UFA

DGH ENGINEERING LTD.

CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL

ISSUED FOR CONSTRUCTION

Sheet List Table

NOTE TO OWNER AND CONTRACTOR:

1. CUSTOMER/CONTRACTOR CAN NOT ALTER THE CONSTRUCTION FROM THAT WHICH IS CONTAINED IN THIS SEALED DRAWING SET WITHOUT PRIOR APPROVAL OF THE ENGINEER WHOSE SEAL APPEARS HEREON.
2. PROVIDE DGH ENGINEERING LTD. A COPY OF ALL PERMITS ISSUED, AND ALL ASSOCIATED DOCUMENTS WITH RESPECT TO THIS PROJECT.

NOTE TO PERMIT AUTHORITY:

1. THIS PLAN IS PREPARED TO PROVIDE STRUCTURAL DETAILS ONLY. MECHANICAL AND ELECTRICAL ENGINEERING IS TO BE PROVIDED BY OTHERS.
2. NEITHER DGH ENGINEERING LTD. NOR THE ENGINEER WHO HAS SEALED THESE DRAWINGS HAS BEEN ENGAGED FOR FIELD REVIEW SERVICES. FIELD REVIEW SERVICES TO BE PROVIDED BY OTHERS.
3. PLEASE CONTACT DGH ENGINEERING DIRECTLY REGARDING PLAN REVIEW COMMENTS OR REQUIREMENTS FOR ADJUSTMENTS AT dgh@dghengineering.com OR 1-877-334-8846

GENERAL ANNOTATION

ITEM	SYMBOL	REMARKS
ELEVATION CALLOUT	A ELEV B	"A" DENOTES DETAIL No., "B" DENOTES DETAIL LOCATION
DETAIL CALLOUT	A B	"A" DENOTES DETAIL No., "B" DENOTES DETAIL LOCATION
DETAIL CALLOUT, SECTION	A B	"A" DENOTES DETAIL No., "B" DENOTES DETAIL LOCATION
WALL SECTION CALLOUT	A B	"A" DENOTES DETAIL No., "B" DENOTES DETAIL LOCATION
BUILDING SECTION CALLOUT	A B	"A" DENOTES DETAIL No., "B" DENOTES DETAIL LOCATION
ROOM NUMBER CALLOUT	101	
DOOR NUMBER CALLOUT	D101	
WINDOW NUMBER CALLOUT	W101	
REVISION NUMBER CALLOUT	01	

ABBREVIATIONS LEGEND

ARCH	ARCHITECTURAL	CORR	CORRIDOR	FLR	FLOOR	NO.	NUMBER	STRL	STRUCTURAL
B.U.	BUILT-UP	CWN	COMMON WIRE NAIL	FTG	FOOTING	O/C	ON CENTRE	T.L.L.	TOP LOWER LEVEL
B.L.L.	BOTTOM LOWER LAYER	DIA	DIAMETER	GALV	GALVANIZED	OD	OUTSIDE DIAMETER	T.U.L.	TOP UPPER LEVEL
B.U.L.	BOTTOM UPPER LAYER	DIAG	DIAGONAL	G.L.	GRID LINE	PRE-ENG	PRE-ENGINEERED	T&G	TONGUE & GROOVE
BD	BOARD	DS	DOWNSPOUT	H/C	HANDICAPPED	PREFIN	PREFINISHED	T&B	TOP & BOTTOM
BLDG	BUILDING	DTL	DETAIL	HORIZ	HORIZONTAL	PROJ	PROJECTION	THKG	THICKENING
BLKG	BLOCKING	DP	DEEP	HR	HOUR	PTD	PAINTED	THRU	THROUGH
BOT	BOTTOM	DWG	DRAWING	HT	HEIGHT	P.L.	PROPERTY LINE	TJ	TIE JOIST
B/W	BOTH WAYS	E/F	EACH FACE	INSUL	INSULATION	R/W	REINFORCED WITH	T/O	TOP OF
BRG	BEARING	E/S	EACH SIDE	ID	INSIDE DIAMETER	REINF	REINFORCING	TYP	TYPICAL
C.L.	CENTERLINE	E/W	EACH WAY	INT	INTERIOR	REQD	REQUIRED	U/S	UNDERSIDE
C/W	COMPLETE WITH	EL	ELEVATION	LG	LONG	SCH	SCHEDULE	UNO	UNLESS NOTED OTHERWISE
CANT	CANTILEVER	ELEV	ELEVATION	LOC	LOCATION	SECT	SECTION	VERT	VERTICAL
C.J.	CONTROL JOINT	EQ	EQUIVALENT	MACH	MACHINE ROOM	SHTG	SHEATHING	W/	WITH
COL	COLUMN	EXT	EXTERIOR	MAX	MAXIMUM	SIM	SIMILAR	WP	WORK POINT
COMP	COMPACTED	F/H	FULL HEIGHT	MFR	MANUFACTURER	SQFT	SQUARE FOOT	W/R	WASHROOM
CONC	CONCRETE	F/O	FACE OF	MID	MIDDLE	SQM	SQUARE METER		
CONST	CONSTRUCTION	FD	FLOOR DRAIN	MIN	MINIMUM	STD	STANDARD		
CONT	CONTINUOUS	FND	FOUNDATION	NIC	NOT IN CONTRACT	STOR	STORAGE		

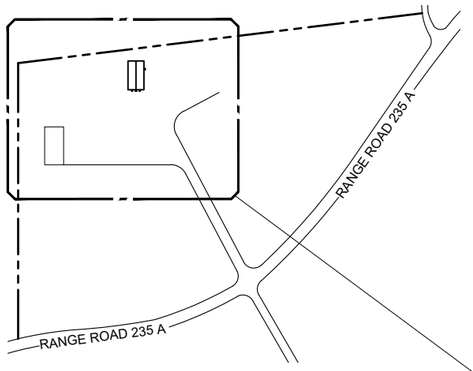
CLIENT UNITED FARMERS OF ALBERTA .

PROJECT GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING

PRINTED DATE: 5/25/2023 3:57:42 PM

PROJECT NO.: 22-3-1585-825

PROJECT DATE: MAY/2023



SITE LAYOUT

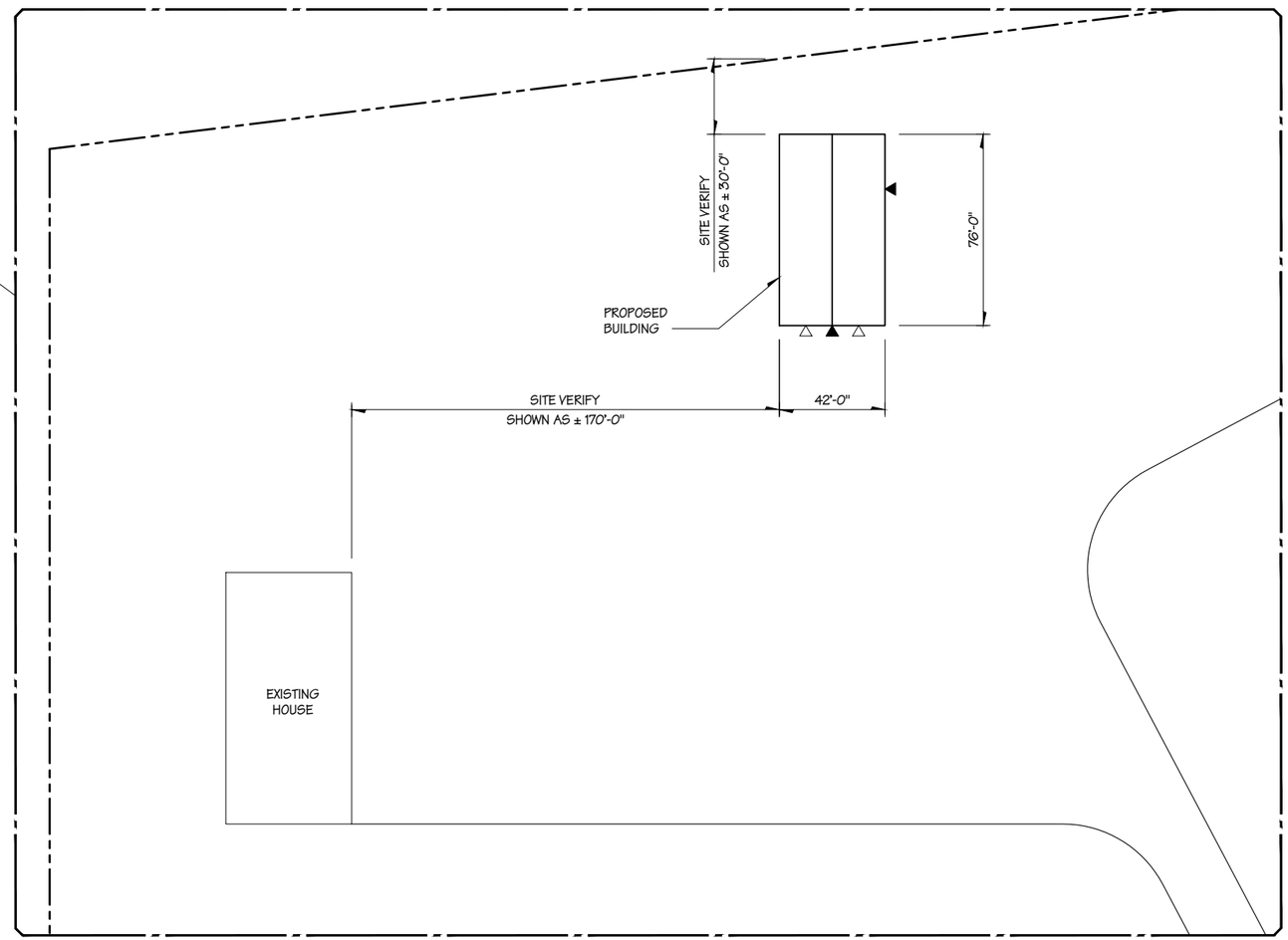
1" = 400'-0"

LEGAL LAND DESCRIPTION:

NW SEC 19-91-23-5

CIVIC ADDRESS:

913060 RANGE ROAD 235A
COUNTY OF NORTHERN LIGHTS, AB



ENLARGE SITE LAYOUT

1" = 60'-0"

NOTES CONCERNING BUILDING LOCATION:

1. THIS SITE PLAN IS BASED ON INFORMATION PROVIDED BY THE OWNER, AND NOT ON A SURVEY OR ACTUAL SITE MEASUREMENTS. DGH ENGINEERING IS TO BE ADVISED BEFORE START OF CONSTRUCTION OF ANY UN-SHOWN FEATURES ON THIS OR THE ADJACENT SITES THAT MIGHT IMPACT ON THE PROJECT EITHER DURING CONSTRUCTION OR DURING FUTURE USE.
2. ANY DIMENSIONS THAT SHOW THE LOCATION OF EXISTING FEATURES ARE APPROXIMATE ONLY. DGH RECOMMENDS THAT THE SERVICES OF A CERTIFIED LAND SURVEYOR BE ENGAGED. IN THE ABSENCE OF SERVICES BY A CERTIFIED LAND SURVEYOR, THE OWNER AND CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR BUILDING PLACEMENT.
3. THE CORNERS OF THE FOUNDATION FOOTPRINT ARE TO BE LOCATED ON SITE BEFORE CONSTRUCTION START. DGH RECOMMENDS THAT THE SERVICES OF A CERTIFIED LAND SURVEYOR BE ENGAGED. IN THE ABSENCE OF SERVICES BY A CERTIFIED LAND SURVEYOR, THE OWNER AND CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR BUILDING PLACEMENT.
4. IF CERTIFICATION TO CODE IS TO BE PROVIDED BY DGH ENGINEERING, THEN A BUILDING LOCATION CERTIFICATE AND A ZONING MEMO ARE TO BE SUBMITTED TO DGH ENGINEERING ALONG WITH THE REQUEST FOR CERTIFICATION.
5. ALL TOPSOIL IS TO BE REMOVED FROM THE BUILDING FOOTPRINT AND USED FOR RE-GRADING OR STOCK PILED ON SITE.
6. THE TOP OF THE INTERIOR FINISHED GRADE IS TO BE SET AT LEAST 12 INCHES HIGHER THAN THE EXPECTED FINAL GRADE OF THE LANDS SURROUNDING THE PROPOSED BUILDING.
7. THE FINISHED GRADE IS TO SLOPE AWAY FROM THE BUILDING ON ALL SIDES, AT A MINIMUM SLOPE OF 1 IN 12, TO MEET THE EXISTING GRADE.
8. SITE GRADING IS TO BE FINISHED TO ENSURE THAT SURFACE RUN-OFF WILL DRAIN NEITHER ONTO THE ADJACENT PROPERTIES NOR ONTO THE ADJACENT STREETS.

SITE DEVELOPMENT - GENERAL SITE	
ITEM	SYMBOL
PROPERTY LINE	
(AT BUILDING) MAN DOOR LOCATION	▼
(AT BUILDING) OVERHEAD DOOR LOCATION	▽

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:57:44 PM

CERTIFYING PROFESSIONAL'S SEAL

PROFESSIONAL ENGINEER ALBERTA — ALEX KOROTKOV

Permit to practice APP-6498
Member # 167632

2023-05-25

UFA

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard St. Andrews MB R1A 3N5 Canada
T: 204-334-8846 www.dghengineering.com

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

CLIENT
UNITED FARMERS OF ALBERTA
•
•
CALGARY, AB
•

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A,
COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1565-625

DESIGNED	DRAWN	COORDINATOR
NB	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

SITE LAYOUT
•
•

C1
REV. ⬠ R00

GENERAL NOTES:

1. BUILDING USE: PERSONAL ACCESSORY BUILDING
2. BUILDING AND FOUNDATION DESIGNED IN ACCORDANCE WITH ABC LATEST EDITION.
3. DRAWINGS ARE NOT TO BE SCALED, BUT MUST BE USED TO DETERMINE THE GENERAL LAYOUT. ALL DIMENSION DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER.
4. ALL NEW GRADE WORK IS TO BE SLOPED AWAY FROM BUILDING.
5. STRIP TOPSOIL ENSURE ALL ORGANIC MATERIAL IS REMOVED.
6. ALL FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 6" AND SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.

BUILDING CLASSIFICATION:

ACREAGE BUILDING
BUILDING AREA: 3,192 FT^2

BUILDING DESIGN LOADS:

BUILDING LOADS REFERENCED FROM ABC LATEST EDITION, MANNING, AB

GROUND SNOW LOAD	48.0	psf
RAIN LOAD	2.1	psf
TOP CHORD LIVE LOAD	40.5	psf
BOTTOM CHORD LIVE LOAD	10.0	psf
DEAD LOAD	12.0	psf
WIND LOAD q50	6.3	psf

FRAMING GENERAL NOTES:

1. VERIFY FINISH SLAB ELEVATION RELATIVE TO SITE WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
2. ALL FRAMING LUMBER SHALL COMPLY WITH PERTINENT PROVISIONS OF CSA O86 AND CSA O141, AND TO THE NATIONAL LUMBER GRADES AUTHORITY, STANDARD GRADING RULE.
3. MOISTURE CONTENT SHALL NOT EXCEED 19% FOR EXTERIOR WORK AND 12% FOR INTERIOR WORK.
4. FRAMING MATERIAL, UNLESS OTHERWISE NOTED, SHALL BE KILN DRIED LUMBER AS FOLLOWS:

UNIT:	LUMBER TYPE:
A] POSTS:	#2 SPF GRADE
B] ALL JOISTS:	#2 SPF GRADE
C] ALL LINTELS:	#2 SPF GRADE
D] LIGHT FRAMING MATERIALS & PLATES:	#2 SPF GRADE

5. ALL NAILS IN EXPOSED EXTERIOR APPLICATIONS, WET OR CORROSIVE INTERIOR CONDITIONS SUCH AS LIVESTOCK BUILDINGS OR NAILS ANCHORED THRU OR INTO PRESSURE TREATED LUMBER SHALL BE HOT DIP GALVANIZED UNLESS OTHERWISE NOTED, TO CONFORM TO CSA B111.
6. ROUGH HARDWARE: BOLTS, NUTS, WASHERS, LAGS, PINS, SCREWS, HOT DIP GALVANIZED TO CONFORM TO CSA G164.
7. WOOD PRESERVATIVE: CCA PRESERVATIVE TO CONFORM TO CSA-080.15. BRUSH TREAT FIELD CUTS WITH COPPER NAPHTHENATE.
8. METAL CLADDING STITCH SCREWS TO BE INSTALLED AS PER SCHEDULE ON S4-1.
9. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WITH THE WORK. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCY OR DEVIATION IN THE EXISTING CONDITION PRIOR TO COMMENCING WITH THE WORK FOR FURTHER INSTRUCTIONS.
10. CONTRACTOR TO PROVIDE TO THE ENGINEER FOR APPROVAL:
    a. SHOP DRAWINGS FOR TRUSSES

ROOF FRAMING GENERAL NOTES:

1. INSTALL ALL BRACING SPECIFIED BY TRUSS MANUFACTURER AND/OR SPECIFIED ON TRUSS SHOP DRAWINGS.
2. PROVIDE ANCHOR BRACING TO ALL MEMBERS WITH LATERAL WEB BRACING SPECIFIED BY TRUSS MANUFACTURER. BRACING TO BE INSTALLED OVER NOT LESS THAN 3 TRUSS BAYS AND EXTEND FROM ROOF PLANE TO CEILING PLANE. ADJUST ANGLE AS NECESSARY. INSTALL AT EACH GABLE END, AND AT 50'-0" INTERVALS ALONG THE LENGTH.
3. IN ADDITION TO THE ANCHOR BRACING REQUIRED AT THE LATERAL WEB BRACING, PROVIDE VERTICAL SWAY BRACING FOR ALL TRUSSES AT MIDSPANS, OR AS SHOWN. FOR TRUSSES WITH SPAN GREATER THAN 20FT, INSTALL ADDITIONAL VERTICAL SWAY BRACING AT ¼ POINTS. FOR TRUSS SPANS GREATER THAN 60FT, OBTAIN SPECIFIC DESIGN. BRACING TO BE INSTALLED OVER NOT LESS THAN 3 TRUSS BAYS AND EXTEND FROM ROOF PLANE TO CEILING PLANE. ADJUST ANGLE AS NECESSARY. INSTALL AT EACH GABLE END, AND AT 50'-0" INTERVALS ALONG THE LENGTH.
4. PROVIDE CONTINUOUS LATERAL TRUSS BRACING ALONG BOTTOM CHORD AT VERTICAL SWAY-BRACING LOCATIONS DURING ERECTION.
5. PROVIDE SPLICE PURLINS AT RIDGE AND EAVE FOR WIND BRACING. SEE ASSOCIATED DETAIL FOR SIZING AND SPLICE PLATE NAILING DETAIL. IF ANY ROOF TOP OPENINGS SUCH AS FANS OR INLETS ARE TO BE INSTALLED AT THE RIDGE, SHIFT SPLICED RIDGE PURLINS DOWN SLOPE TO AVOID INTERRUPTION. COORDINATE DETAIL WITH VENTILATION SUPPLIER AND PROJECT ENGINEER.

CONCRETE GENERAL NOTES:

1. ALL CONCRETE, UNLESS OTHERWISE STATED, SHALL BE DESIGNED AS FOLLOWS:

UNIT:	ALL CONCRETE:
A] MINIMUM COMPRESSIVE STRENGTH - [28 DAYS]:	3600 Psi [25 MPa]
B] AGGREGATE SIZE - [MAXIMUM]:	¾"
C] AIR ENTRAINMENT - [±1%]:	NATURAL
D] SLUMP - [±1"]:	4"

2. DESIGN BASED ON THE FOLLOWING CONDITIONS:
   - FOUNDATION DESIGN BASED ON A SOIL BEARING PRESSURE OF 2000 psf FOR A CONFINED FOOTING IN COMPACTED GRAVEL, SAND OR SILT.
   - PROOF ROLL SITE TO IDENTIFY ANY SOFT AREAS. IF ANY SOFT AREAS ENCOUNTERED THEY ARE TO BE EXCAVATED A MINIMUM 12" AND REPLACED WITH SUITABLE FILL COMPACTED TO 95%.
   - OWNER OR CONTRACTOR SHALL NOTIFY ENGINEER IF LOCAL CONDITIONS DIFFER FROM THOSE LISTED ABOVE.
   - ALL CEMENT SHALL BE TYPE GU.
4. CONCRETE COVER FOR REINFORCING STEEL BE AS FOLLOWS:

UNIT:	MEASUREMENT:
A] CONCRETE DEPOSITED AGAINST SOIL:	3"
B] CONCRETE EXPOSED TO WEATHER, WATER OR SOIL AFTER REMOVAL OF FORMS:	1½"
C] SLABS AND WALLS, EXCEPT AS NOTED IN [A] AND [B]:	¾"

5. ALL REINFORCING STEEL SHALL BE HIGH BOND DEFORMED BARS CONFORMING TO CSA G30.18 GRADE 400 FOR 10M, 15M OR LARGER.
6. ALL BENDING DETAILS, DIMENSIONS, ANCHORAGE, CUT-OFF LENGTHS, BAR SUPPORTS, SPACERS, AND LOCATION OF REINFORCING SPLICES SHALL BE IN ACCORDANCE WITH CSA A23.3 LATEST EDITION, UNLESS OTHERWISE SHOWN.

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:57:49 PM

CERTIFYING PROFESSIONAL'S SEAL

PROFESSIONAL ENGINEER ALBERTA — ALEX KOROTKOV

Permit to practice P-6498
Member # 167632

2023-05-25

UFA

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard
St. Andrews MB R1A 3N5 Canada
T: 204-334-8846
www.dghengineering.com

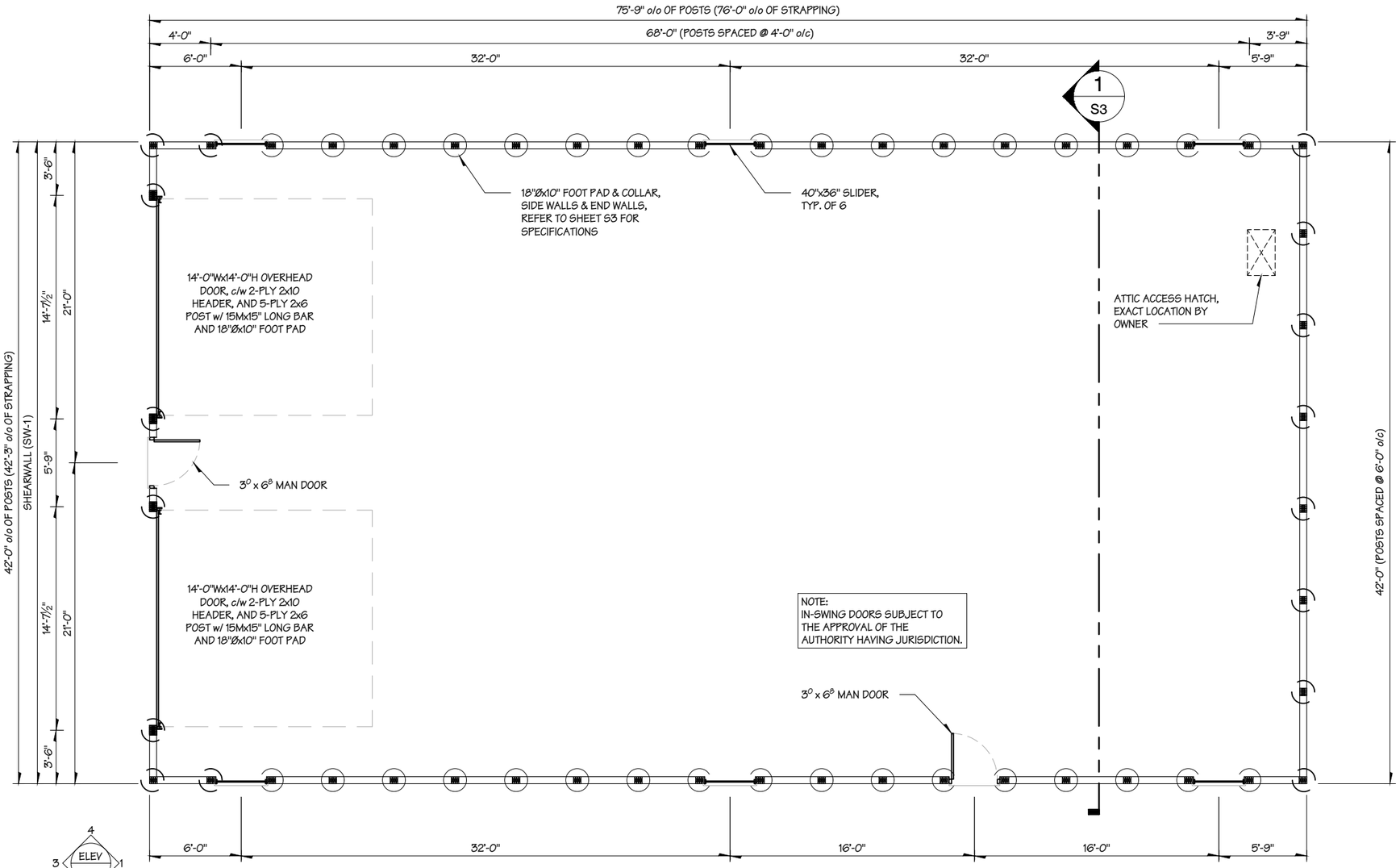
CLIENT
UNITED FARMERS OF ALBERTA
•
•
CALGARY, AB
•

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A,
COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1565-825

DESIGNED	DRAWN	COORDINATOR
KM	NB	JHW
DATE	**SCALE**	**X'REF PATH(S)**
MAY/2023	AS NOTED	

STRUCTURAL NOTES
•
•

S0
REV.⬠ R00



4
3 ELEV S2-1/S2-2 1
2

W NW SW N S SE NE E

MAIN FLOOR PLAN

1/8" = 1'-0"

SHEARWALL (SW-1) CONSTRUCTION:

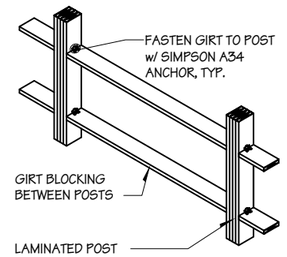
- 29ga COLOR DURACLAD
- BUILDING WRAP (TYPAR OR EQUAL)
- 1x4 STRAPPING @ 24" o/c
- 3/4" PLYWOOD, FASTEN w/ 3¼"x0.120Ø AIR NAILS @ 4" o/c ALONG PANEL EDGES AND 12" o/c ALONG INTERMEDIATE FRAMING JOINTS. BLOCK ALL UNSUPPORTED EDGES
- 2x6 GIRT BLOCKING @ 24" o/c
- LAMINATED 2x6 POSTS
- R20 BATT INSULATION
- 6mil CGSB POLY V.B.
- 2x4 STRAPPING @ 24" o/c
- METAL LINER PANEL

ATTIC VENTILATION NOTE:

PROVIDE MIN. 10.64 FT² OF TOTAL UNOBSTRUCTED VENT AREA. VENTS ARE TO BE DISTRIBUTED EQUAL AND OPPOSITE SIDES OF THE BUILDING. OF THE TOTAL VENT AREA A MINIMUM OF 2.66 FT² SHALL BE POSITIONED AT THE TOP OF THE ATTIC SPACE & A MIN. OF 2.66 FT² SHALL BE POSITIONED AT THE BOTTOM OF THE ATTIC SPACE.

ATTIC ACCESS NOTE:

AN ACCESS PANEL AT LEAST 22"x36" IS TO BE PROVIDED TO ANY CONCEALED ROOF SPACE.



GIRT BLOCKING DETAIL

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE:5/25/2023 3:57:54 PM

CERTIFYING PROFESSIONAL'S SEAL

PROFESSIONAL ENGINEER ALBERTA — ALEX KOROTKOV

Permit to practice # P-6498
Member # 167632
2023-05-25

UFA

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard
St. Andrews MB R1A 3N5 Canada
T: 204-334-8846
www.dghengineering.com

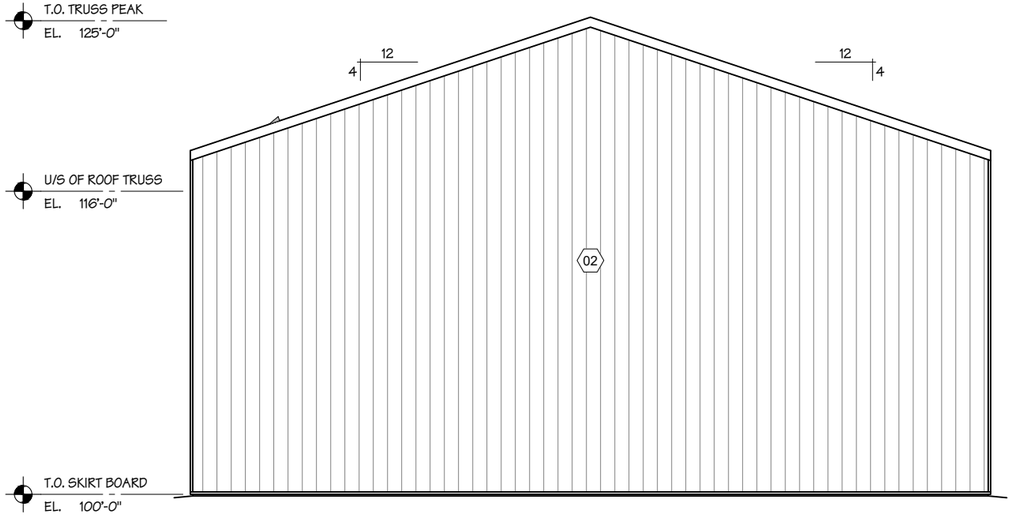
CLIENT
UNITED FARMERS OF ALBERTA
•
•
CALGARY, AB
•

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A,
COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1565-825

DESIGNED	DRAWN	COORDINATOR
KM	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

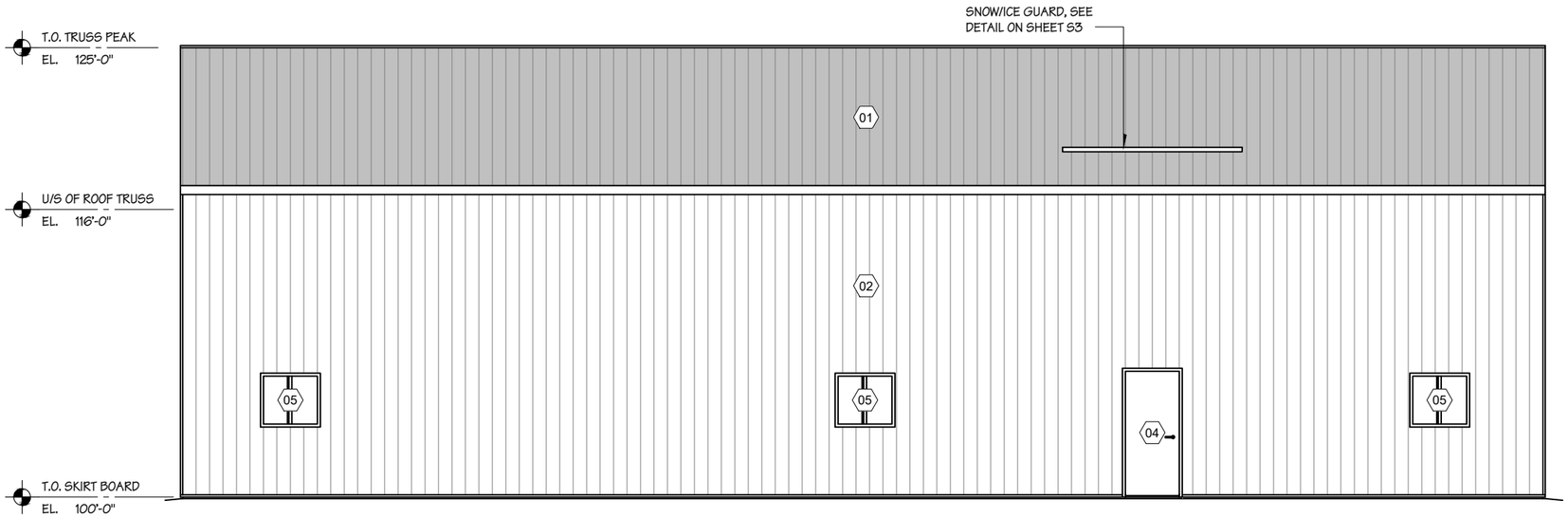
MAIN FLOOR PLAN
•
•

S1
REV. R00



1 / S2-1 **BUILDING ELEVATION**

1/8" = 1'-0"
SHEET REF. S1



2 / S2-1 **BUILDING ELEVATION**

1/8" = 1'-0"
SHEET REF. S1

01	LEGEND
MARK	DESCRIPTION
01	METAL ROOF CLADDING
02	METAL WALL CLADDING
03	OVERHEAD DOOR
04	EXTERIOR MAN DOOR
05	WINDOW

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:57:59 PM

CERTIFYING PROFESSIONAL'S SEAL

PROFESSIONAL ENGINEER ALEX KOROTKOV ALBERTA

Permit to practice #P-6498
Member # 167632

2023-05-25

UFA

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard
St. Andrews MB R1A 3N5 Canada
T: 204-334-8846
www.dghengineering.com

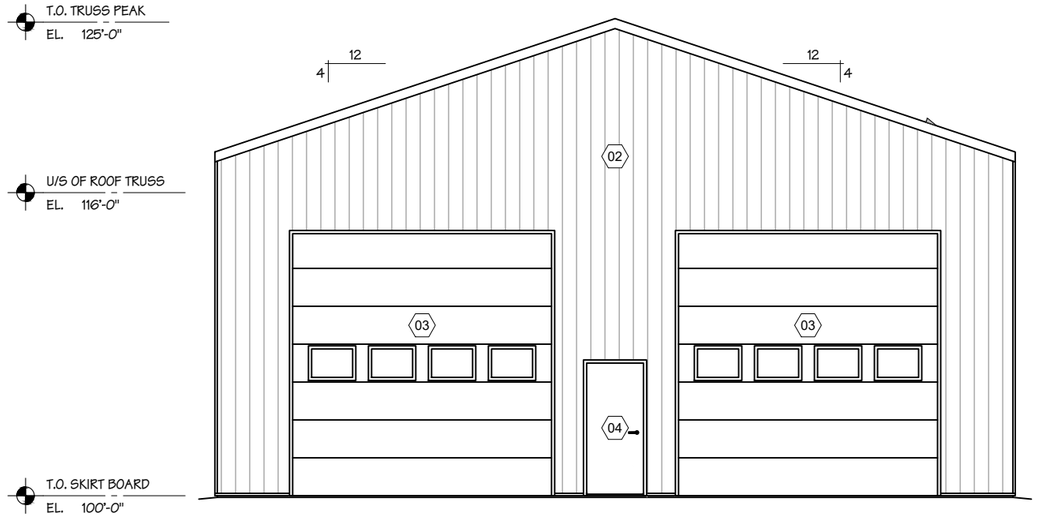
CLIENT
UNITED FARMERS OF ALBERTA
•
•
CALGARY, AB
•

DESIGNED	DRAWN	COORDINATOR
KM	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A,
COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1565-625

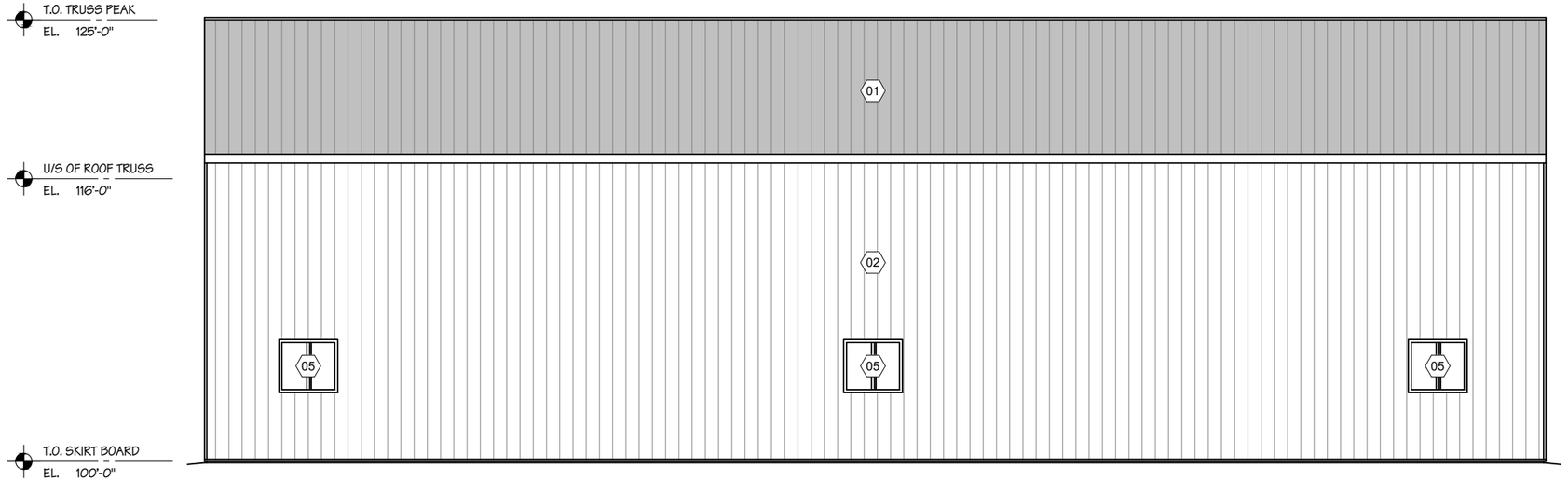
BUILDING ELEVATIONS
•
•

S2-1
REV. ⬠ R00



3 S2-2 **BUILDING ELEVATION**

1/8" = 1'-0"
SHEET REF. S1



4 S-2 **BUILDING ELEVATION**

1/8" = 1'-0"
SHEET REF. S1

01	LEGEND
MARK	DESCRIPTION
01	METAL ROOF CLADDING
02	METAL WALL CLADDING
03	OVERHEAD DOOR
04	EXTERIOR MAN DOOR
05	WINDOW

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:58:04 PM

CERTIFYING PROFESSIONAL'S SEAL

PROFESSIONAL ENGINEER ALBERTA · ALEX KOROTKOV · 2023

Permit to practice # P-6498
Member # 167632
2023-05-25

UFA

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard
St. Andrews MB R1A 3N5 Canada
T: 204-334-8846
www.dghengineering.com

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

CLIENT
UNITED FARMERS OF ALBERTA
·
·
CALGARY, AB
·

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING

PROJECT LOCATION
913060 RANGE ROAD 235 A,
COUNTY OF NORTHERN LIGHTS, AB

PROJECT NUMBER: 22-3-1565-825

DESIGNED	DRAWN	COORDINATOR
KM	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

BUILDING ELEVATIONS
·
·

S2-2
REV.⬠ R00

24'-0"

		TRUSS MEMBER
8' PWF 2x6 SPF #1/2	16' 2x6 SPF #1/2 (CUT TOP TO FIT TRUSS)	
16' PWF 2x6 SPF #1/2	8' 2x6 SPF #1/2 (CUT TOP FLUSH w/ TOP CHORD)	
12' PWF 2x6 SPF #1/2	12' 2x6 SPF #1/2 (CUT TOP FLUSH w/ TOP CHORD)	
10' PWF 2x6 SPF #1/2	14' 2x6 SPF #1/2 (CUT TOP FLUSH w/ TOP CHORD)	

SIDEWALL

24'-0"

8' PWF 2x6 SPF #1/2	16' 2x6 SPF #1/2
16' PWF 2x6 SPF #1/2	8' 2x6 SPF #1/2
12' PWF 2x6 SPF #1/2	12' 2x6 SPF #1/2
10' PWF 2x6 SPF #1/2	14' 2x6 SPF #1/2

ENDWALL

24'-0"

8' PWF 2x6 SPF #1/2	16' 2x6 SPF #1/2 (NOTCH AS REQUIRED)
14' PWF 2x6 SPF #1/2	10' 2x6 SPF #1/2 (NOTCH AS REQUIRED)
16' PWF 2x6 SPF #1/2	8' 2x6 SPF #1/2
12' PWF 2x6 SPF #1/2	12' 2x6 SPF #1/2 (NOTCH AS REQUIRED)
10' PWF 2x6 SPF #1/2	14' 2x6 SPF #1/2 (NOTCH AS REQUIRED)

ENDWALL OHD

LAMINATED POST DETAIL

NAILING SPECIFICATION FOR EACH LAMINATION:
- 3 ROWS 3¼" AIR NAILS @ 8" o/c

*** NOTE: USE GALVANIZED NAILS WHEN FASTENING INTO PWF SECTIONS

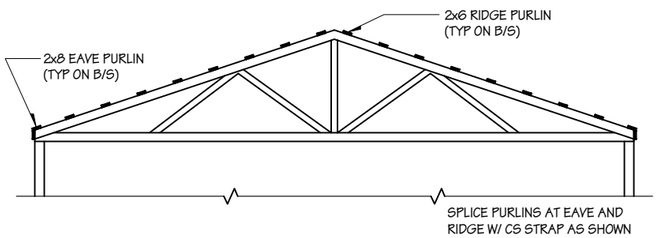
4 PLY

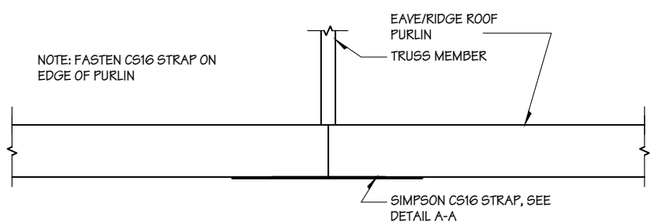
4	NAIL 4 TO 2
2	NAIL 2 TO 1
1	
3	NAIL 3 TO 1

5 PLY

4	NAIL 4 TO 2
2	NAIL 2 TO 1
1	
3	NAIL 3 TO 1
5	NAIL 5 TO 3

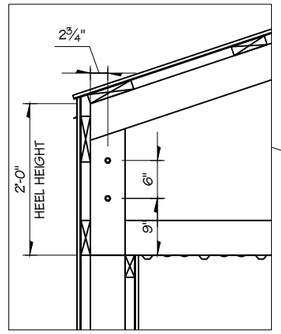
SEQUENCE PLY ASSEMBLY

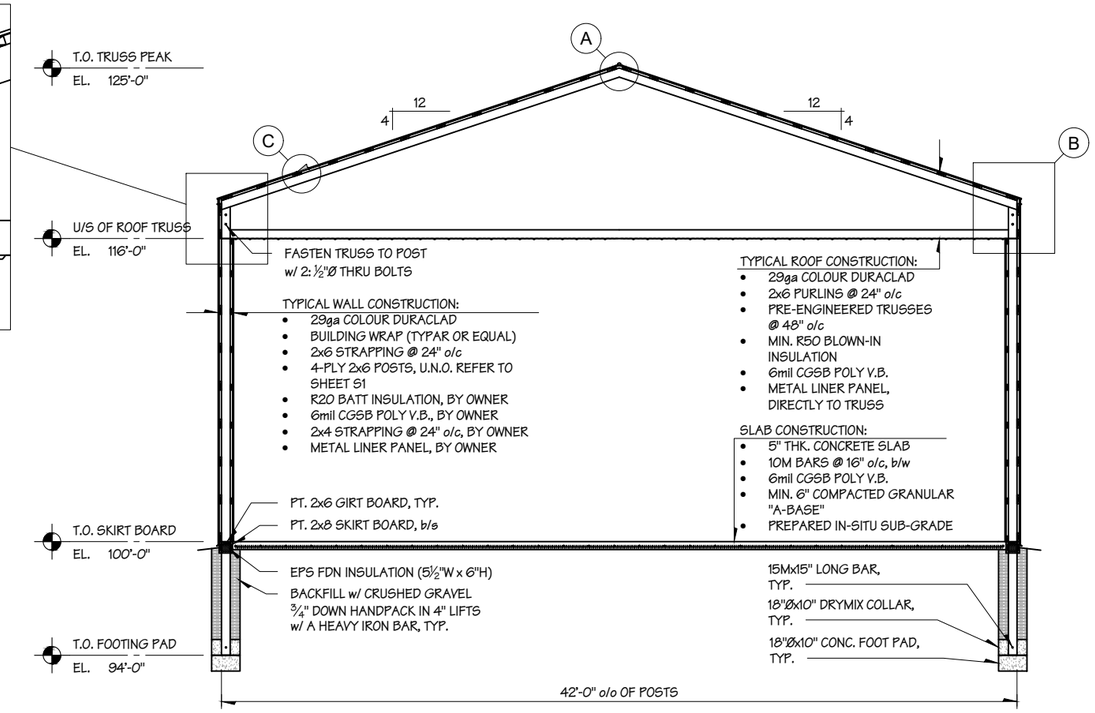




EDGE PURLIN SPLICE DETAIL

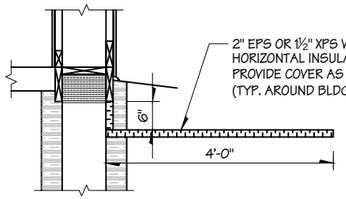
N.T.S.



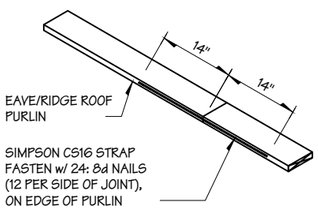


1 S3 BUILDING SECTION
1/8" = 1'-0"
SHEET REF. S1

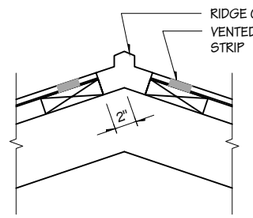
NOTE:
PERIMETER INSULATION TO BE INSTALLED WHEN HEAT IS PROVIDED TO THE BUILDING. INSTALLATION AND PROTECTION COVER BY OWNER.



PERIMETER INSULATION DETAIL

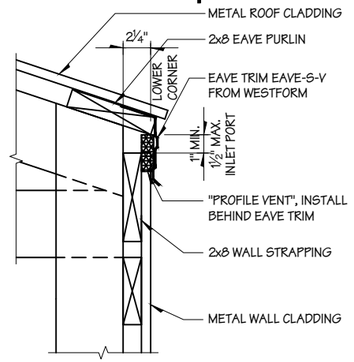


DETAIL A-A



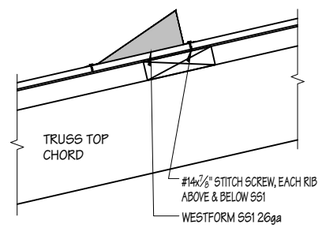
A RIDGE CAP DETAIL

NOTE:
REFERENCE DETAIL ONLY, DETAIL MAY NOT REFLECT EXACT TRUSS HEEL HEIGHT.



B SIDEWALL VENT DETAIL

SNOW / ICE GUARDS TO BE SUPPLIED OVER ALL EXTERIOR EXITS ON DOWNSLOPE EAVES EXTENDING 40" PAST EXT. EXIT ON EACH SIDE; TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS WITH CONSIDERATION FOR LOCAL SNOWFALL CONDITIONS AND LENGTH OF ROOF SLOPE.



C SNOW STOP DETAIL

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:58:09 PM

CERTIFYING PROFESSIONAL'S SEAL
PROFESSIONAL ENGINEER ALBERTA
ALEX KOROTKOV
Permit to practice P-P-6498
Member # 167632
2023-05-25

UFA

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard St. Andrews MB R1A 3N5 Canada
T: 204-334-8846 www.dghengineering.com

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

CLIENT
UNITED FARMERS OF ALBERTA
CALGARY, AB

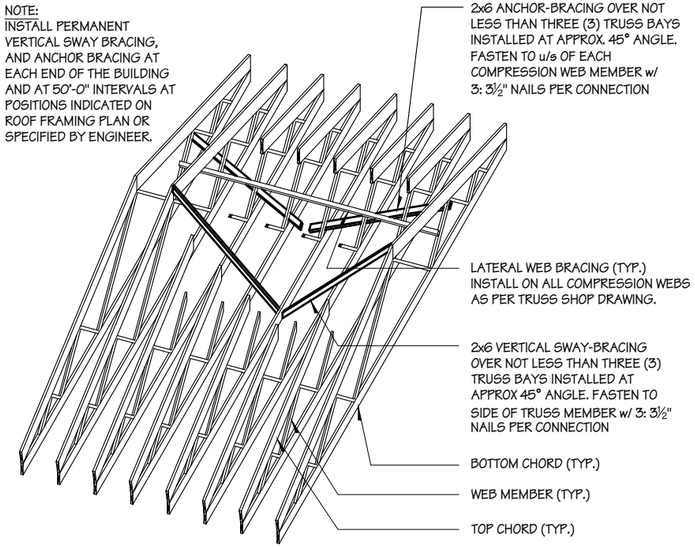
PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A,
COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1585-825

DESIGNED	DRAWN	COORDINATOR
KM	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

BUILDING SECTION & DETAILS

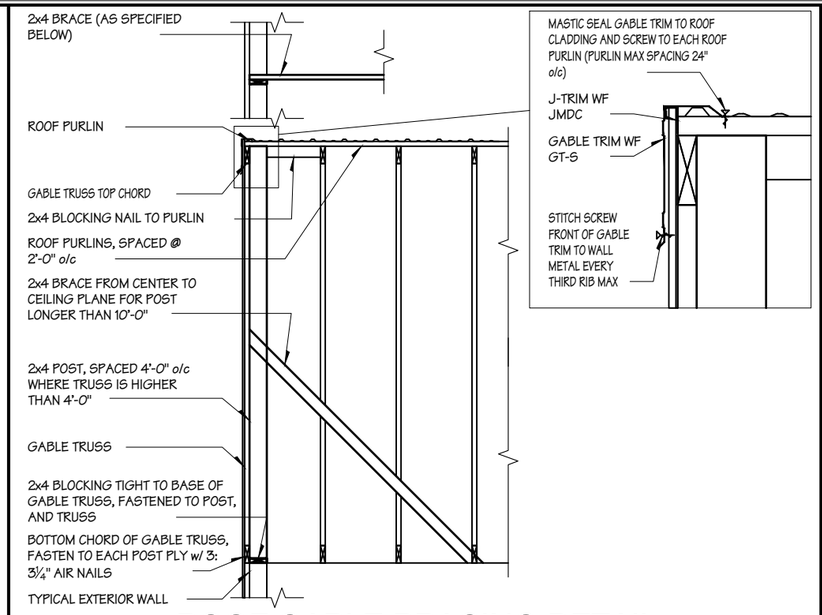
S3
REV. R00

NOTE:
INSTALL PERMANENT VERTICAL SWAY BRACING, AND ANCHOR BRACING AT EACH END OF THE BUILDING AND AT 50'-0" INTERVALS AT POSITIONS INDICATED ON ROOF FRAMING PLAN OR SPECIFIED BY ENGINEER.



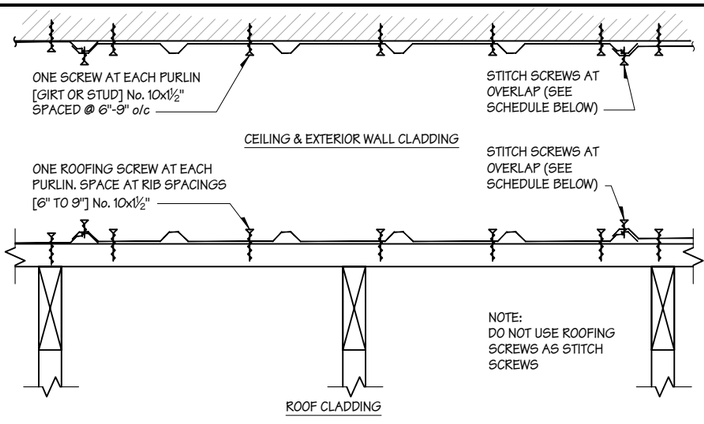
VERTICAL SWAY-BRACING & ANCHOR BRACING DETAIL

NOT TO SCALE



ROOF GABLE BRACING DETAIL

1/4" = 1'-0"



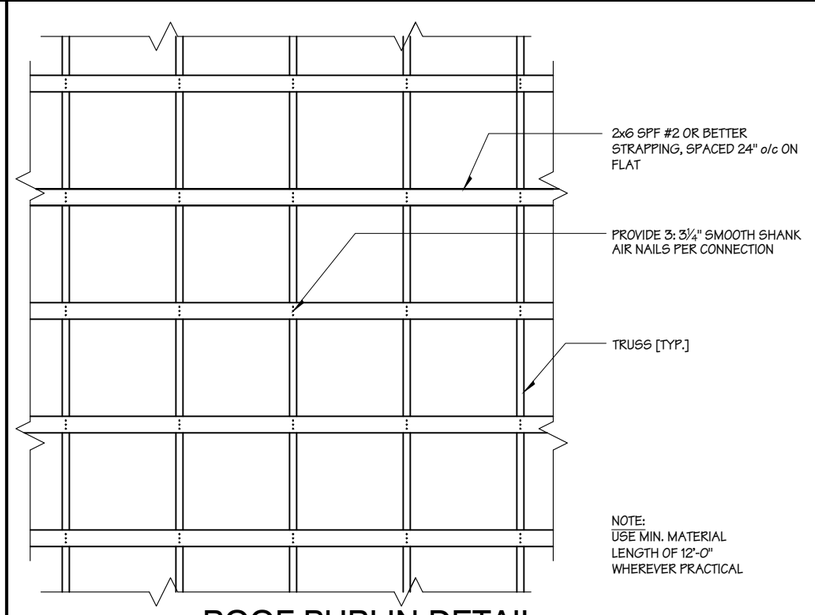
TYPICAL SCREW DETAIL

NOT TO SCALE

STITCH SCREW SCHEDULE		
ROOF	No. 14x⅞" HWH @ 24"	o/c
CEILING	No. 14x⅞" HWH @ 48"	o/c
SIDE WALL	No. 14x¾" HWH @ 24"	o/c
END WALL w/ OH DOOR	No. 14x¾" HWH @ 24"	o/c
END WALL w/o OH DOOR	No. 14x¾" HWH @ 12"	o/c

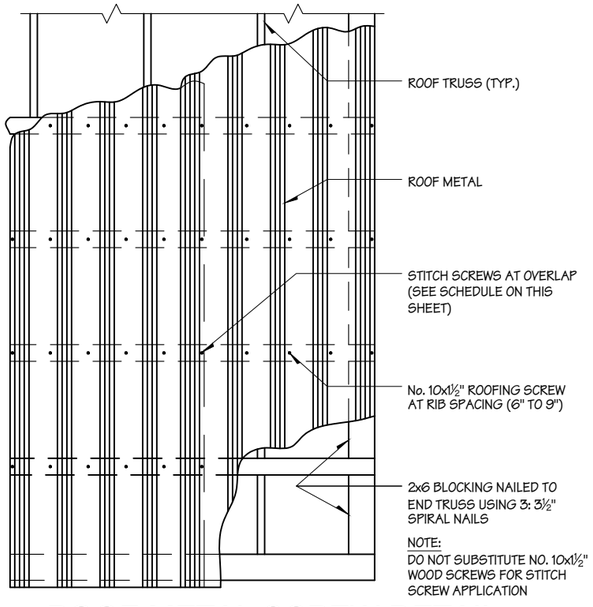
CLADDING OVERLAP DETAIL

NOT TO SCALE



ROOF PURLIN DETAIL

3/8" = 1'-0"



ROOF METAL SCREW DETAIL

3/8" = 1'-0"

IMPORTANT NOTE:

THIS IS A UFA STANDARD DETAILS PAGE. DETAILS TO BE USED FOR REFERENCE ONLY. DETAILS MAY NOT REFLECT EXACT CONSTRUCTION.

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:58:14 PM

CERTIFYING PROFESSIONAL'S SEAL

PROFESSIONAL ENGINEER ALEX KOROTKOV ALBERTA

Permit to practice #P-6498
Member # 167632

2023-05-25

UFA

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard
St. Andrews MB R1A 3N5 Canada
T: 204-334-8846
www.dghengineering.com

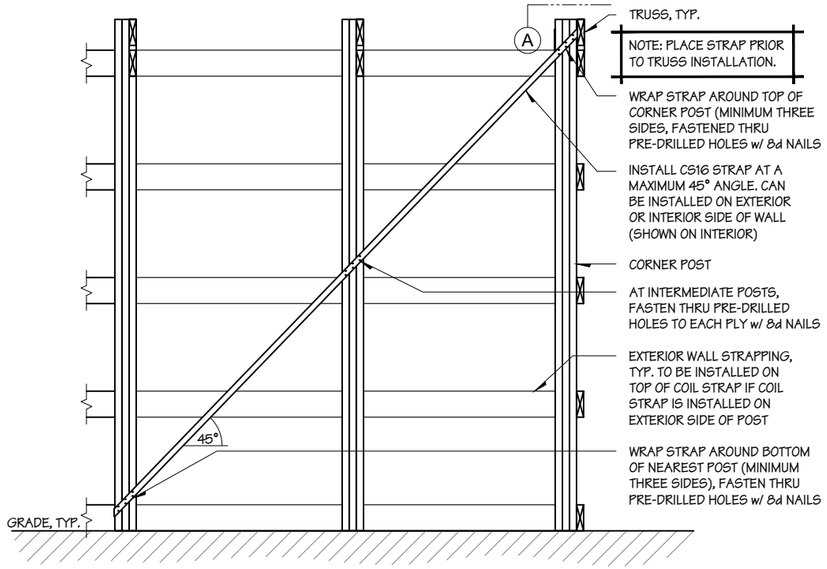
CLIENT
UNITED FARMERS OF ALBERTA
•
•
CALGARY, AB
•

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A,
COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1565-825

DESIGNED	DRAWN	COORDINATOR
KM	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

FRAMING DETAILS
•
•

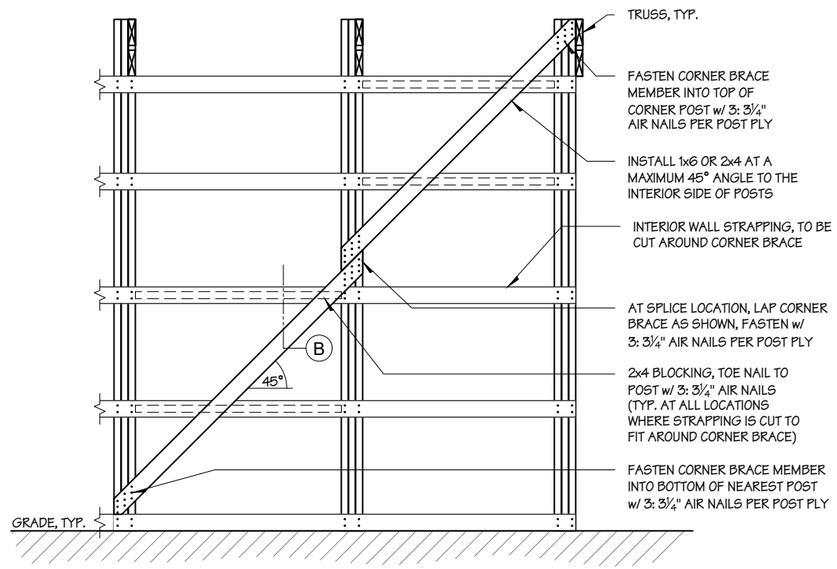
S4-1
REV. ⬠ R00



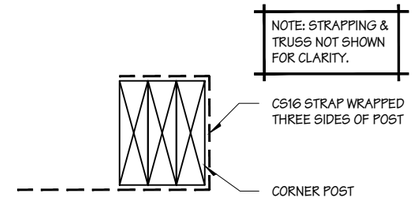
CORNER BRACE DETAIL

3/8" = 1'-0"

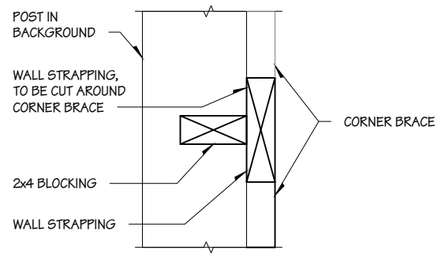
NOTE:
DETAIL DEPICTING SIDEWALL ELEVATION LOOKING FROM INTERIOR TOWARDS EXTERIOR.



ALTERNATE CORNER BRACE DETAIL (RECOMMENDED FOR UNLINED/UNFINISHED INTERIOR)



A CORNER POST DETAIL
1-1/2" = 1'-0"



B STRAPPING CONNECTION DETAIL
1-1/2" = 1'-0"

IMPORTANT NOTE:

THIS IS A UFA STANDARD DETAILS PAGE. DETAILS TO BE USED FOR REFERENCE ONLY. DETAILS MAY NOT REFLECT EXACT CONSTRUCTION.

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:58:19 PM

CERTIFYING PROFESSIONAL'S SEAL

PROFESSIONAL ENGINEER ALBERTA — ALEX KOROTKOV

Permit to practice #P-6498
Member # 167632

2023-05-25

UFA

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard
St. Andrews MB R1A 3N5 Canada
T: 204-334-8846
www.dghengineering.com

CLIENT
UNITED FARMERS OF ALBERTA
•
•
CALGARY, AB
•

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING

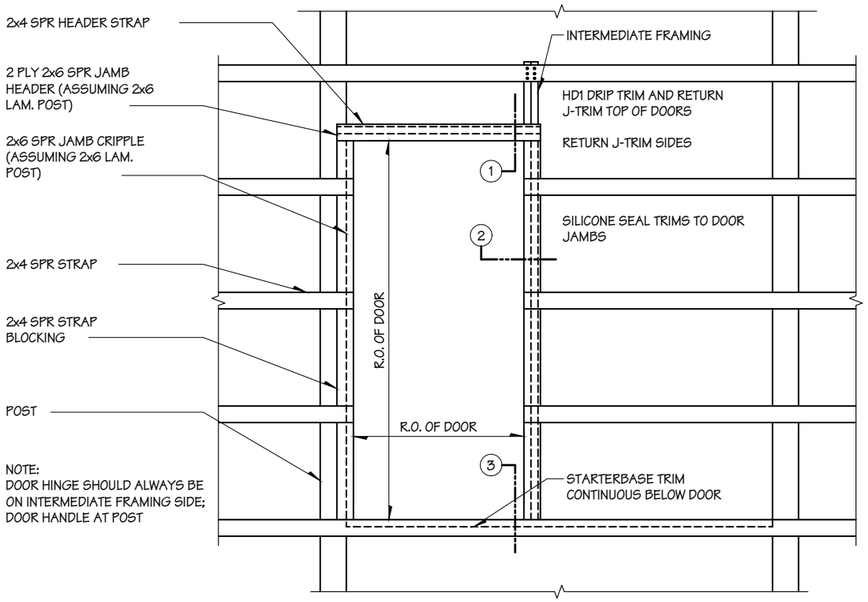
PROJECT LOCATION
913060 RANGE ROAD 235 A, COUNTY OF NORTHERN LIGHTS, AB

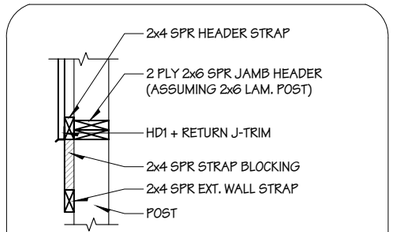
PROJECT NUMBER: 22-3-1565-825

DESIGNED	DRAWN	COORDINATOR
KM	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

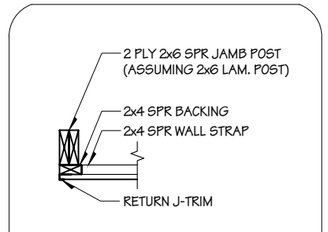
FRAMING DETAILS
•
•

S4-2
REV. ⬠ R00

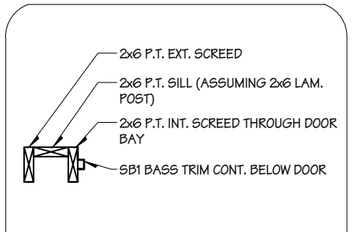




1 HEADER DETAIL
1/2" = 1'-0"



2 JAMB DETAIL
1/2" = 1'-0"



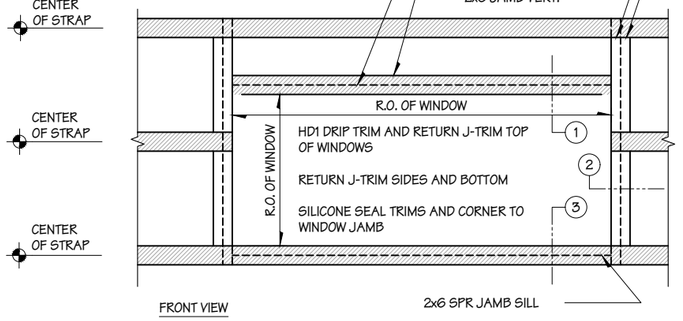
3 THRESHOLD DETAIL
1/2" = 1'-0"

NOTE:

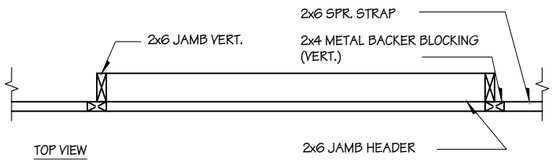
ALL IN WALL FRAMING TO MATCH POST SIZE - 2x6

DOOR OPENING DETAIL

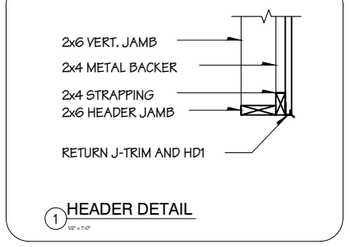
3/8" = 1'-0"



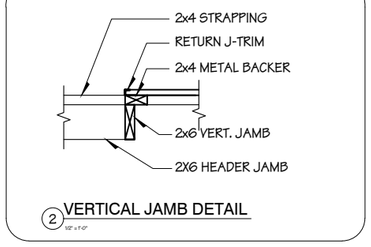
FRONT VIEW



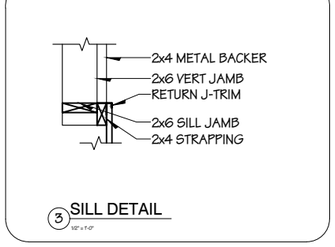
TOP VIEW



1 HEADER DETAIL
1/2" = 1'-0"



2 VERTICAL JAMB DETAIL
1/2" = 1'-0"



3 SILL DETAIL
1/2" = 1'-0"

NOTE:

ALL IN WALL FRAMING TO MATCH POST SIZE - 2x6

WINDOW OPENING DETAIL

3/8" = 1'-0"

IMPORTANT NOTE:

THIS IS A UFA STANDARD DETAILS PAGE. DETAILS TO BE USED FOR REFERENCE ONLY. DETAILS MAY NOT REFLECT EXACT CONSTRUCTION.

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:58:24 PM

CERTIFYING PROFESSIONAL'S SEAL

PROFESSIONAL ENGINEER ALBERTA — ALEX KOROTKOV

Permit to practice # P-6498
Member # 167632

2023-05-25

UFA

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard
St. Andrews MB R1A 3N5 Canada
T: 204-334-8846
www.dghengineering.com

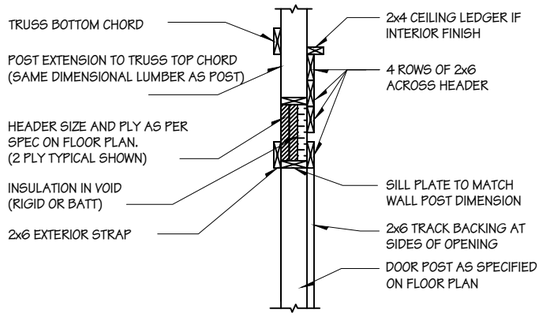
CLIENT
UNITED FARMERS OF ALBERTA
•
•
CALGARY, AB
•

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A,
COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1565-825

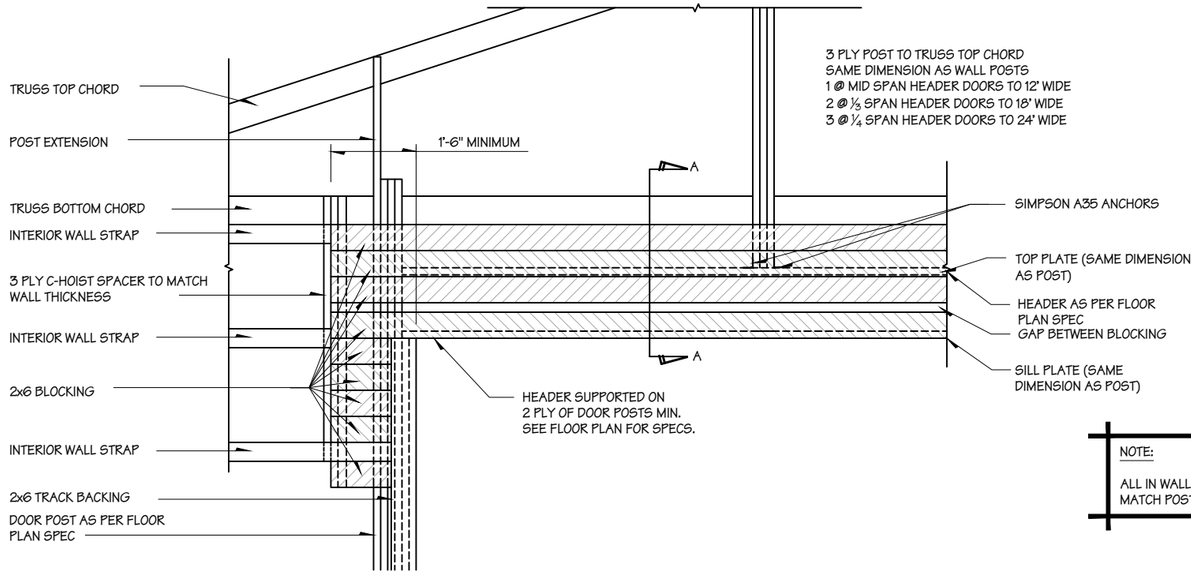
DESIGNED	DRAWN	COORDINATOR
KM	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

WALL OPENING DETAILS
•

S5-1
REV.⬠ R00



SECTION A-A



NOTE:

ALL IN WALL FRAMING TO MATCH POST SIZE - 2x6

ENDWALL OVERHEAD DOOR HEADER DETAIL

IMPORTANT NOTE:

THIS IS A UFA STANDARD DETAILS PAGE. DETAILS TO BE USED FOR REFERENCE ONLY. DETAILS MAY NOT REFLECT EXACT CONSTRUCTION.

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:58:29 PM

CERTIFYING PROFESSIONAL'S SEAL

PROFESSIONAL ENGINEER ALBERTA
ALEX KOROTKOV

Permit to practice #P-6498
Member # 167632

2023-05-25

UFA

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard
St. Andrews MB R1A 3N5 Canada
T: 204-334-8846
www.dghengineering.com

CLIENT
UNITED FARMERS OF ALBERTA
•
•
CALGARY, AB
•

DESIGNED	DRAWN	COORDINATOR
KM	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A, COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1565-825

WALL OPENING DETAILS
•

S5-2
REV. ⬠ R00

DGH ENGINEERING LTD.
12 AVIATION BLVD.
ST. ANDREWS, MB R1A 3N5

The following is a modified reproduction of an information brochure published by the Truss Plate Institute of Canada

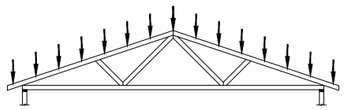
HANDLING, ERECTION AND BRACING OF WOOD TRUSSES

While the recommendations for handling, erection and bracing contained herein are technically sound, it is not intended that they be considered the only method for erecting and bracing of a roof system. Neither should these recommendations be interpreted as superior to or a standard that would necessarily be preferred in lieu of an architect's or engineer's method for erection or design for bracing a particular roof system.

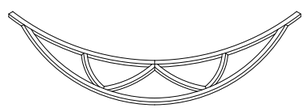
These recommendations originate from the collective experience of leading technical personnel in the wood truss industry, but must, due to the nature of responsibilities involved, be presented only as a guide for the use of a qualified building designer, builder or erection contractor. Thus, the Truss Plate Institute of Canada and W.W.T.A. expressly disclaims any responsibility for damages arising from the use, application, or reliance on the recommendations and information contained herein by building designers or by erection contractors.

1. HANDLING RECOMMENDATIONS

Trusses must be in the vertical plane to take advantage of their superior ability to support loads. The truss erector or the builder shall take the necessary precautions to ensure that erection procedures and handling methods do not damage the trusses and thus reduce their load carrying capacity.



TRUSSES ARE STRONG THIS WAY



BUT WEAK THIS WAY

2. CHECK TRUSSES WHILE THEY ARE ON THE GROUND

a. Count trusses to ensure that you have the correct number for the job.
b. Measure trusses for the correct pitch, span, and any special details.
c. Check for damage, broken members, loose plates, etc.

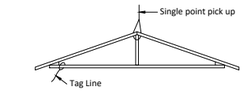
3. ERECTION PROCEDURE

a. Mark the bearing plates on both walls to the required spacing of the trusses (normally 24" o.c.).
b. Hoist the trusses to the roof level, taking care not to bend or twist the trusses. See section 4.
c. If interior walls are available, trusses may be laid flat.
d. If no partitions exist, trusses shorter than 32' may be inverted and hung from the bearing plates.
e. Erect gable or end trusses and install braces to prevent lateral movement. See section 5.
f. Run a string line from heel to heel of the end trusses to be used as a guide line.
g. Erect trusses using string to locate heels. Brace each truss as it is erected.
h. Trusses may be marked at one end. Place trusses so that all marked ends are on the same side of the building.
i. When flat trusses are used, ensure that they are installed with the proper side up.
j. Install temporary bracing with sufficient X-bracing to prevent trusses from buckling or toppling over. See section 5.
k. Secure trusses to plate using nails, hangers, anchors, or bearing brackets as required.
l. Check alignment. See section 6.
m. Install permanent bracing. See section 7.
n. Complete roof by installing roof decking, gable end ladders, etc.

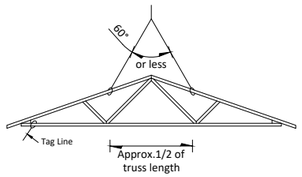
4. MECHANICAL HANDLING

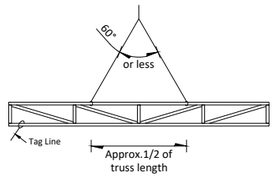
Ideally, when mechanical means are used, the trusses should be lifted in banded sets and lowered onto supports. When this method is used, extreme caution must be exercised when breaking the metal straps. Trusses may domino, lose lateral stability, or totally collapse, if temporary braces and supports are not in place before releasing the banding. Lifting trusses singly should be avoided, but if necessary an appropriate spreader bar should be used with slings of sufficient strength and placed in a "toed-in" position. The "toed-in" position will prevent the trusses from folding.

If erectors have any doubt, contact the truss supplier immediately.

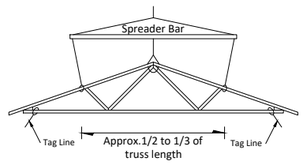


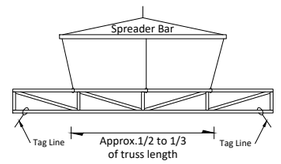
For spans of 20' or less, a single pick up point may be used to lift the truss. A tag line should be used whenever a truss is lifted to avoid having it swing and do damage.



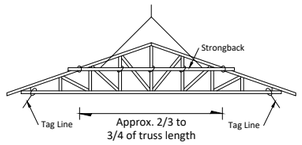


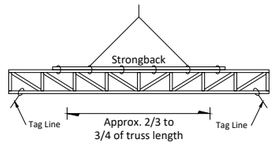
Trusses up to 30' in length should be lifted using two pick up points located so that the distance between them is approximately one-half the length of the truss. The angle between the two cables should be 60 degrees or less to reduce the tendency for the truss to buckle laterally during the lift. A tag line should be fastened to one end to prevent the truss from swinging and causing damage to other parts of the work or to the truss itself.





A spreader bar and short cable slings should be used to lift trusses in the 30' to 60' range. The cable slings may be vertical, but it is recommended that they be "toed-in" to prevent the truss from folding during the lift. The two tag lines should be used to control trusses of this size.

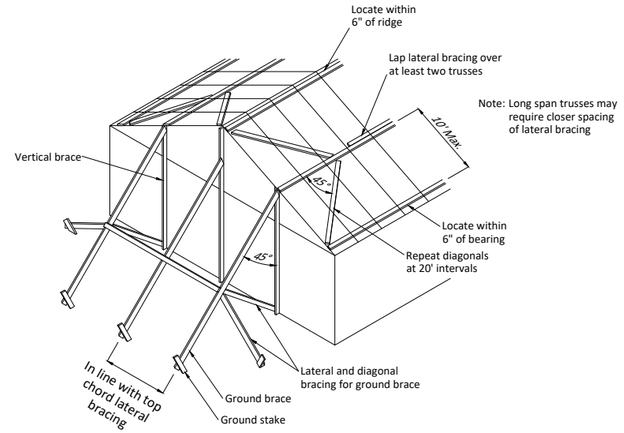




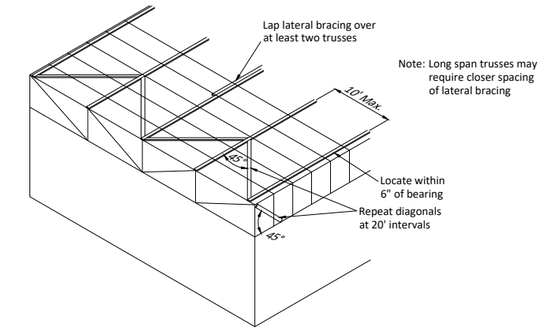
Trusses above 60' in length should be lifted with a strongback 2/3 to 3/4 the length of the truss. The truss should be securely tied to it at intervals of 10' or less. For flat trusses, the strongback should be tied to the top chord. Strongbacks should be positioned high enough on pitched trusses to prevent overturning of the truss. Two tag lines should be used to control the truss during lifting. Supervision by a professional engineer may be required.

5. TEMPORARY BRACING REQUIRED DURING ERECTION

a) Temporary bracing for gable truss top chord of pitched trusses.



b) Temporary bracing for top chord of flat trusses.



c) Temporary bracing for bottom chord and webs should be installed as per section 7 and left in place as permanent bracing.

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:58:34 PM

CERTIFYING PROFESSIONAL'S SEAL

UFA

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard
St. Andrews MB R1A 3N5 Canada
T: 204-334-8846
www.dghengineering.com

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

CLIENT
UNITED FARMERS OF ALBERTA
•
•
CALGARY, AB
•

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A,
COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1585-825

DESIGNED	DRAWN	COORDINATOR
.	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

WOOD TRUSS HANDLING, BRACING & ERECTION

S6-1
REV. R00

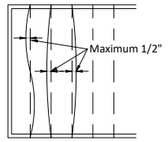
6. VERTICAL AND LATERAL ALIGNMENT - GENERAL WARNINGS AND PRECAUTIONS

All trusses are laterally unstable until properly braced. The longer the span, the more care required. Adequate restraint is necessary at all stages of construction.

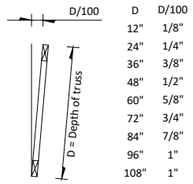
Complete stability is not achieved until the bracing and decking is completely installed and properly fastened.

Erection, bracing, and procedures as well as the safety of the workers are the responsibility of the erector.

Problems may occur in attempts to realign trusses. Align each truss and place it permanently in position before it is connected to the bracing system. Once there is a load, even from the weight of the truss itself, large lateral forces are developed by attempts to realign the trusses. This may break the bracing system.

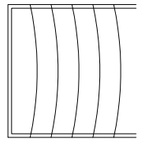


When properly aligned, each top chord should not vary more than 1/2" from a straight line.

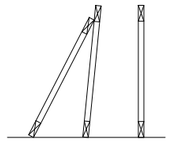


D	D/100
12"	1/8"
24"	1/4"
36"	3/8"
48"	1/2"
60"	5/8"
72"	3/4"
84"	7/8"
96"	1"
108"	1"

Out of plumb installation tolerances.



The bracing system should provide support at spacings no farther apart than the drawings show for the bridging. Without proper bracing the trusses may not support even their own weight.



Collapse can easily occur without a bracing system that will prevent both horizontal sway (pictured to the left) or roll over (pictured above). By rolling on their sides, where they have no strength, the trusses will break or pull the ends off the bearings.

DO NOT permit cutting, drilling or any procedure that may damage the truss chords or webs!

DO NOT remove truss webs (even temporarily)!

DO NOT make field repairs to damaged trusses without the approval of the manufacturer!

DO NOT overload single trusses or groups of trusses with sheathing, roofing, or other construction materials or tools!

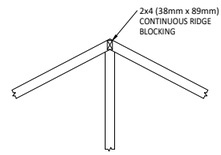
DO NOT erect damaged trusses! Should a truss or group of trusses fall to the ground or become damaged, do not proceed! The site engineer of record must certify that the trusses are satisfactory to erect. Notify the truss supplier immediately.

DO NOT use nails, other than those specified, without the approval of the manufacturer. Common wire nails are typically specified, and box nails, spiral nails, and power driven nails are not as strong!

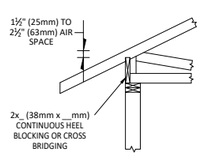
7. PERMANENT BRACING

Permanent bracing is designed and specified for the structural safety of the building. It is the responsibility of the building designer or an authority other than the truss designer to indicate size, location, and attachments for all permanent bracing. Typical applications of permanent bracing to be specified by the building designer are as follows:

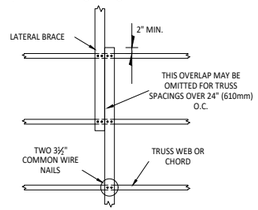
a) Typical details



TYPICAL RIDGE BLOCKING DETAIL



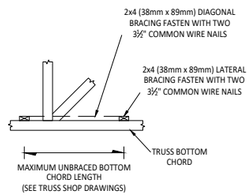
TYPICAL HEEL BLOCKING DETAIL



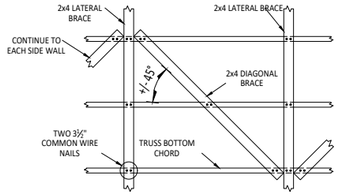
TYPICAL SPLICE DETAIL FOR LATERAL BRACING

b) Bottom chord bracing

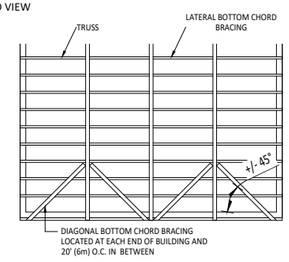
This lateral and diagonal bracing is required to maintain the proper truss spacing and to transfer force due to lateral forces into the side walls, shear walls or other resisting structural elements.



LATERAL BOTTOM CHORD BRACING END VIEW



TYPICAL BOTTOM CHORD BRACING DETAIL PLAN VIEW



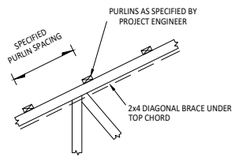
PLAN VIEW OF TRUSSES AND BOTTOM CHORD BRACING

1x4 and 2x3 may be substituted for 2x4 in some applications. Consult your designer or project engineer.

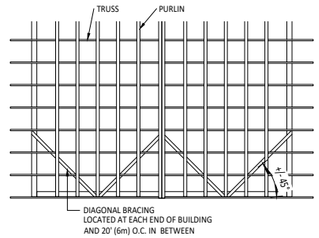
7. PERMANENT BRACING (Continued)

Permanent bracing is designed and specified for the structural safety of the building. It is the responsibility of the building designer or an authority other than the truss designer to indicate size, location, and attachments for all permanent bracing. Typical applications of permanent bracing to be specified by the building designer are as follows:

c) Top chord bracing (if purlins are used).



TYPICAL PURLIN DETAIL

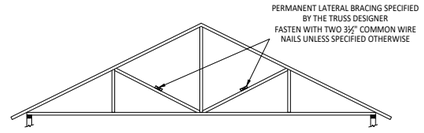


PLAN VIEW OF TRUSSES, PURLINS & BRACING

If valley sets, piggy-back trusses or conventional framing are installed on top of the main trusses, the full length of the top chords of these trusses must be restrained by sheathing or purlins spaced as specified on the structural or truss design drawings. Top chords of trusses must always be restrained from lateral movement.

d) Lateral web bracing

This type of bracing is specified by the truss designer to prevent buckling of truss members, and is shown on the truss drawings.



It must be emphasized that lateral bracing MUST BE INSTALLED when it is shown on the truss design drawings.

Lateral movement of the lateral bracing MUST BE RESTRAINED by installing permanent anchor bracing as shown in section 7.e.

If it is not possible to install lateral web bracing as specified on the truss design drawing, or if the truss run is less than three trusses of the same kind, a "T" brace shall be installed as per the truss design drawing or Appendix C Table C.1.1. of the T.P.I.C. Truss Design Procedures and Specifications manual.

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:58:39 PM

CERTIFYING PROFESSIONAL'S SEAL

UFA

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard, St. Andrews MB R1A 3N5 Canada
T: 204-334-8846
www.dghengineering.com

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

CLIENT
UNITED FARMERS OF ALBERTA
•
•
CALGARY, AB
•

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A, COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1565-825

DESIGNED	DRAWN	COORDINATOR
.	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

WOOD TRUSS HANDLING, BRACING & ERECTION

S6-2
REV.⬠ R00

7. PERMANENT BRACING (Continued)

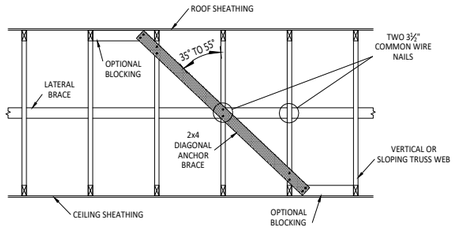
Permanent bracing is designed and specified for the structural safety of the building. It is the responsibility of the building designer or an authority other than the truss designer to indicate size, location, and attachments for all permanent bracing. Typical applications of permanent bracing to be specified by the building designer are as follows:

e) Anchor bracing

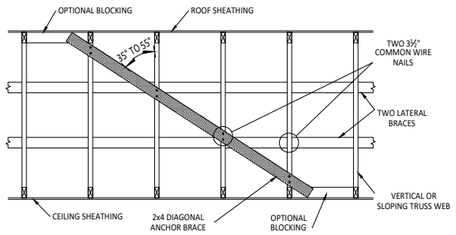
Permanent lateral bracing similar to that described in section 7.d. must be anchored. It is the responsibility of the building designer to specify the type of anchor. Typical methods of anchoring the permanent lateral web bracing are shown below.

Anchor bracing should be installed at each end of the lateral bracing run, and at 20' (6m) o.c. maximum in between, or as otherwise specified.

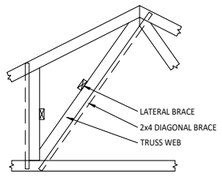
TYPICAL ANCHOR BRACING DETAIL FOR ONE LATERAL WEB BRACE



TYPICAL ANCHOR BRACING DETAIL FOR TWO LATERAL WEB BRACES



LATERAL WEB BRACING END VIEW



7. PERMANENT BRACING (Continued)

Permanent bracing is designed and specified for the structural safety of the building. It is the responsibility of the building designer or an authority other than the truss designer to indicate size, location, and attachments for all permanent bracing. Typical applications of permanent bracing to be specified by the building designer are as follows:

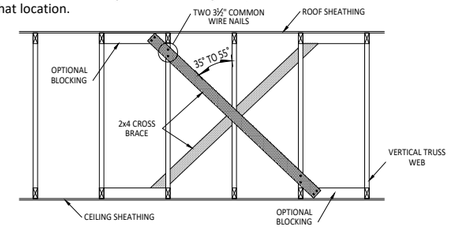
f) Diagonal web bracing (Cross bracing)

The diagonal web bracing specified by the building designer is used to hold the trusses in a vertical position, to maintain the proper spacing, to distribute unequal loading to adjacent trusses, and to transfer lateral forces to diaphragms and shear walls.

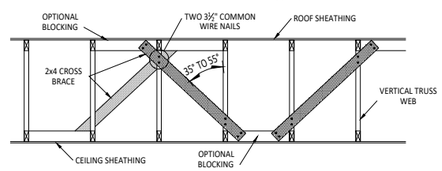
Diagonal web bracing should be installed at each end of the building, and 20' (6m) o.c. maximum along the length of the building, or as otherwise specified. Also, it should be installed at 12' to 16' (3.6m to 4.8m) intervals along the span of the trusses.

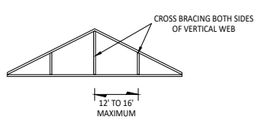
Continuous diagonal web bracing should be installed along all truss bearing lines, unless the trusses are sheathed or otherwise restrained at that location.

TYPICAL CROSS BRACING DETAIL

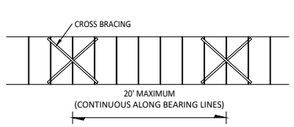


ALTERNATE CROSS BRACING DETAIL





SPACING ACROSS WIDTH OF BUILDING



SPACING ALONG LENGTH OF BUILDING

More handling, erection and bracing information is available at:

Western Wood Truss Association (WWTA)
www.wwtams.com

Truss Plate Institute of Canada (TPIC)
www.tpic.ca

Canadian Wood Council (CWC)
www.cwc.ca

WWTA
Saskatchewan, Manitoba, N.W. Ontario

ISSUED FOR CONSTRUCTION

ISSUE (AND REVISION)

NO.(REV.)	DATE	DESCRIPTION	INITIAL(S)
02	2023-05-25	ISSUED FOR CONSTRUCTION	NB
01	2023-05-09	ISSUED FOR REVIEW	NB

PRINTED DATE: 5/25/2023 3:58:44 PM

CERTIFYING PROFESSIONAL'S SEAL

UFA

DGH ENGINEERING LTD.
CIVIL | STRUCTURAL | MECHANICAL | ELECTRICAL | INDUSTRIAL
12 Aviation Boulevard St. Andrews MB R1A 3N5 Canada
T: 204-334-8846 www.dghengineering.com

NOTE TO CONTRACTOR:
THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO CONSULTANT IN WRITING. DO NOT RELY ON SCALED DIMENSIONS. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTACT THE CONSULTANT FOR CLARIFICATIONS IF NECESSARY. THIS DRAWING SHALL NOT BE USED FOR BUILDING PERMIT OR CONSTRUCTION PURPOSES UNLESS IT IS SEALED AND SIGNED BY THE CONSULTANT RESPONSIBLE FOR THE WORK.

CLIENT
UNITED FARMERS OF ALBERTA
•
CALGARY, AB
•

PROJECT TITLE
GARRET VOWEL - 42'X76'X16' ACCESSORY BUILDING
PROJECT LOCATION
913060 RANGE ROAD 235 A, COUNTY OF NORTHERN LIGHTS, AB
PROJECT NUMBER: 22-3-1585-825

DESIGNED	DRAWN	COORDINATOR
.	NB	JHW
DATE	SCALE	X'REF PATH(S)
MAY/2023	AS NOTED	

WOOD TRUSS HANDLING, BRACING & ERECTION

S6-3
REV. R00