

AURELIUS TOWNSHIP
1939 S. Aurelius Road · Mason, Michigan 48854-9729
(517) 628-2093 · Fax (517) 628-3989 *Office*
hours Tuesday through Friday, 10 a.m. to 3 p.m.

**PROCEDURES TO BE FOLLOWED TO SECURE A
RESIDENTIAL DECK PERMIT**

- Step 1:** PLANS OR DRAWING OF DECK
- Step 2:** COMPLETE DECK APPLICATION PACKET available from Township office or on-line at aureliustwp.org
- Step 3:** For Site approval, project needs to be staked.

COST OF PERMIT: \$125.00 (any size)

Call the Aurelius Township office at 517-628-2093 to schedule the footing inspection and the final inspection.

If you call for an inspection and you are not ready, you will be charged an additional \$50.

AURELIUS TOWNSHIP

517-628-2093

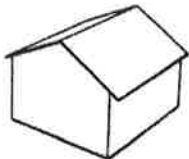
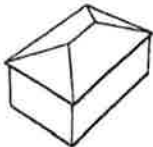
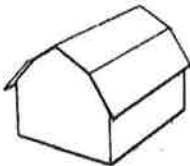
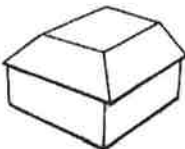
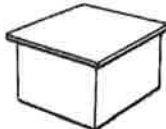
APPLICATION FOR PLAN EXAMINATION AND BUILDING PERMIT

All permit applications must be accompanied by detailed construction and site plans. Multi-Family and all Commercial plans must be signed and sealed by a State of Michigan, Registered Architect, or Engineer.

APPLICANT TO COMPLETE PAGES 1 THROUGH 3

I. LOCATION OF BUILDING				
STREET ADDRESS OF CONSTRUCTION:				
CITY	ZIP	AURELIUS TOWNSHIP	INGHAM COUNTY	
II. IDENTIFICATION				
A. OWNER OR LESSEE				
NAME		ADDRESS		
CITY	STATE	ZIP	PHONE	
EMAIL ADDRESS				
B. ARCHITECT OR ENGINEER				
NAME		ADDRESS		
CITY	STATE	ZIP	PHONE	
LICENSE NUMBER		EXPIRATION DATE		
C. CONTRACTOR				
NAME		ADDRESS		
CITY	STATE	ZIP	PHONE	
FAX NUMBER		EMAIL ADDRESS		
LICENSE NUMBER		EXPIRATION DATE		
FEDERAL EMPLOYER ID NO OR REASON FOR EXEMPTION				
WORKERS COMP INSURANCE CARRIER OR REASON FOR EXEMPTION				
MESC EMPLOYER NO OR REASON FOR EXEMPTION				
III. TYPE OF IMPROVEMENT				
A. DESCRIBE IMPROVEMENT				
<input type="checkbox"/> New building	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration	<input type="checkbox"/> Repair	<input type="checkbox"/> Wrecking
<input type="checkbox"/> Mobile Home	<input type="checkbox"/> Foundation only	<input type="checkbox"/> Pre-manufacture	<input type="checkbox"/> Relocation	<input type="checkbox"/> Fence
<input type="checkbox"/> Pool	<input type="checkbox"/> Shed	<input type="checkbox"/> Deck	<input type="checkbox"/> Other	

**AURELIUS TOWNSHIP
BUILDING INFORMATION AND ASSESSING WORKSHEET**

				PERMIT #		
NAME:				DATE		
ADDRESS				PHONE		
CITY			STATE		ZIP	
PARCEL NUMBER						
POLE BARN		SHEDS		EXTERIOR		
Size: _____ by _____		Size: _____ by _____		Wood		
Concrete Approach		Wood Frame		Aluminum		
Finished		Metal Prefab		Vinyl		
Insulated		Other		Other		
ROOF						
						
GABLE	HIP	GAMBREL	MANSARD	FLAT		
		WINDOWS	SIZE	GARAGE/CARPORT		
Eavestrough		Many	Large	Size _____ by _____		
Asphalt Shingles		Average	Average	Year Built _____		
Other		Few	Small	Attached or Separate		
Insulation		Wood Sash		Doors		
Overhang		Metal Sash		Automatic Doors		
PORCHES/DECKS		Vinyl Sash		Common Wall		
Width		Double Hung		Wall Finish		
Depth		Casement		Ceiling		
Type		Storms and Screens		Concrete Approach		
Covered?		Patio Doors		Size _____ by _____		
PORCHES/DECKS		PORCHES/DECKS		SIZE		
Width		Width				
Depth		Depth				
Type		Type				
Covered?		Covered?		EST COST		

G:\PERMITS\BUILDING INFO AND ASSESSING WORKSHEET.EXCEL

**AURELIUS TOWNSHIP
SITE OR PLOT PLAN**

N	
W	E
S	

APPLICANT INFORMATION

Applicant is responsible for the payment of all fees and charges applicable to this application and must provide the following information.

NAME	TELEPHONE NUMBER
ADDRESS	
CITY	STATE ZIP
FEDERAL I.D. NO.	

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent, and to conform to all applicable laws of the State of Michigan. All information submitted on this application is accurate to the best of my knowledge.

Section 23a of the State Construction Code Act of 1972, Act no. 230 of the Public Acts of 1972, being Section 125.1523a of the Michigan Compiled Laws, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23a are subject to civil fines.

TOTAL COST OF IMPROVEMENT \$ _____

SIGNATURE OF APPLICANT _____ DATE _____

RESIDENTIAL DECK SPECIFICATIONS

Deck Size: _____ ft. x _____ ft.

Deck Floor Material: _____

Floor Joist Size: _____ in. x _____ in.

Floor Joist Spacing: _____ inches on center

Floor Joist Clear Span: _____ ft. _____ in.

Floor Joist Cantilever: _____ ft. x _____ in.

Double Carrier / Beam Size: _____ in. x _____ in.

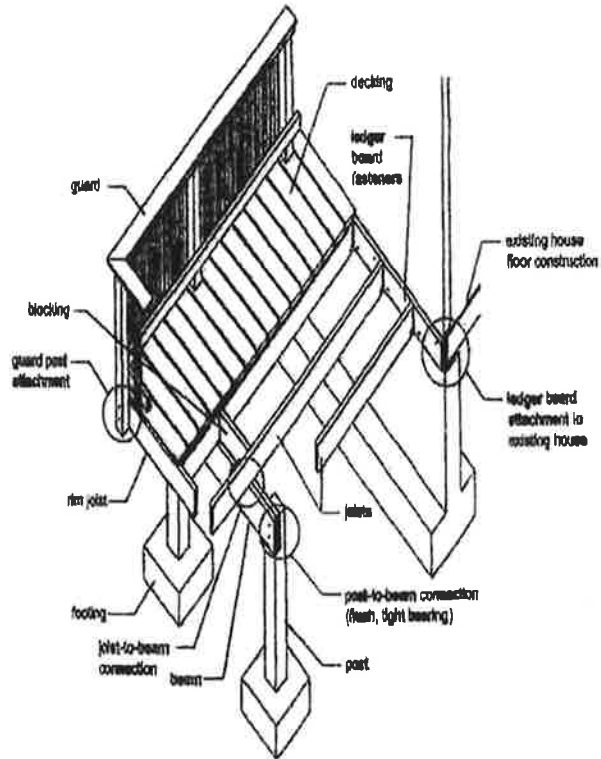
Treated Poles Size: _____ in. x _____ in.

Post Spacing: _____ ft. _____ in.

Footings Depth Below Grade: _____ in.

Footings: Width _____ in. Height _____ in.

Is the deck attached to the house? YES / NO



Some requirements of the 2015 Michigan Residential Code Chapter 3, Section R507

Guards

- Are required if the floor and stairs measures more than 30 inches above grade.
- Shall have a minimum height of 36 inches for floors and 34 inches for stairs off the nose of the tread.
- Shall be constructed so a 4-inch sphere cannot pass through.

Stairway

- Shall be a minimum of 36 inches in width.
- Shall have a maximum riser height of 8 1/4 inches and a minimum tread depth of 9 inches.

Handrails

- Are required on 4 or more risers.
- Shall have a minimum height of 34 inches and a maximum height of 38 inches measured vertically off the nose of the tread.
- Shall be continuous for the full length of the stairway and ends shall be returned to wall or post.
- Type I handrails shall be graspable measuring at least 1 1/4 inches and not greater than 2 inches in diameter unless the perimeter of a noncircular handrail is less than 6 1/4 inches, then it is allowed to be 2 1/4 inches in width.
- Type II handrails with a perimeter greater than 6 1/4 inches shall provide a graspable finger recess area on both sides of the profile that meets code requirements. The width of the handrail shall be no less than 1 1/4" and not more than 2 1/4".

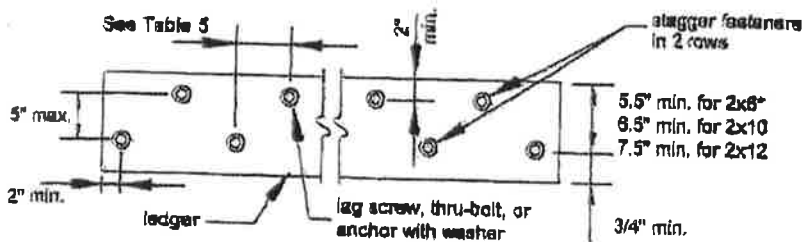
Spans

- Joist spacing & spans and beam spans shall meet the requirements of Tables R507.4, R507.5 and R507.6 (min. 1 1/2" bearing)

Joist Spacing (O.C.)

Species	Size	Allowable Span		
		12"	16"	24"
Southern Pine	2x6	9'-11"	9'-0"	7'-7"
	2x8	13'-1"	11'-10"	9'-8"
	2x10	16'-2"	14'-0"	11'-5"
	2x12	18'-0" ⁷	16'-6"	13'-6"
Douglas Fir-Larch, Hem-Fir, Spruce- Pine-fire	2x6	9'-6"	8'-4"	6'-10"
	2x8	12'-6"	11'-1"	9'-1"
	2x10	15'-8"	13'-7"	11'-1"
	2x12	18'-0"	15'-9"	12'-10"
Redwood, Western Cedars, Ponderosa Pine, Red Pine	2x6	8'-10"	8'-0"	6'-10"
	2x8	11'-8"	10'-7"	8'-8"
	2x10	14'-11"	13'-0"	10'-7"
	2x12	17'-5"	15'-1"	12'-4"

Ledger Fastener Spacing and Clearances



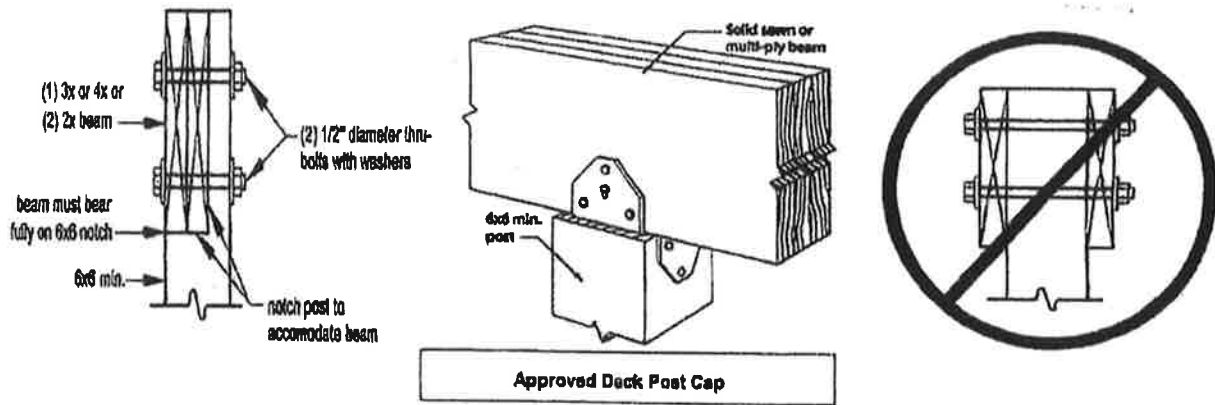
See Table 5.

*Distance can be reduced to 4.5" if lag screws are used or bolt spacing is reduced to that of lag screws to attach 2x8 ledgers to 2x8 band joists (1/2" stacked washers not permitted)

TABLE 6

DECK POST SIZE	MAX HEIGHT
4 x 4	8'
4 x 6	8'
6 x 6	14'

Deck Beam & Floor Joist Spans, Ledger Fastener Spacing and Handrail Detail

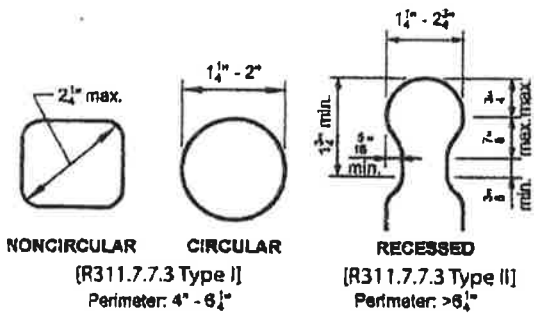


Deck Beam Span Length

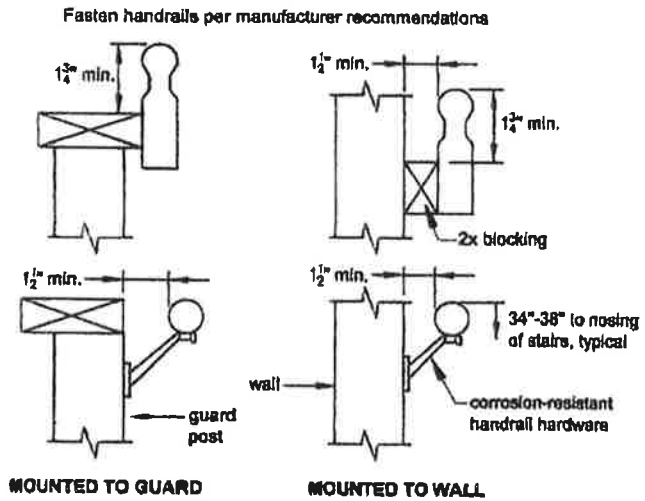
Species	Size	Deck Joist Span less than or equal to						
		6'	8'	10'	12'	14'	16'	18'
Southern Pine	2-2x6	6'-11"	5'-11"	5'-4"	4'-10"	4'-6"	4'-3"	4'-0"
	2-2x8	8-9"	7'-7"	6'-9"	6'-2"	5'-9"	5'-4"	5'-0"
	2-2x10	10'-4"	9'-0"	8'-0"	7'-4"	6'-9"	6'-4"	6'-0"
	2-2x12	12'-2"	10'-7"	9'-5"	8'-7"	8'-0"	7'-6"	7'-0"
	3-2x6	8'-2"	7'-5"	6'-8"	6'-1"	5'-8"	5'-3"	5'-0"
	3-2x8	10'-10"	9'-6"	8'-6"	7'-9"	7'-2"	6'-8"	6'-4"
	3-2x10	13'-0"	11'-3"	10'-0"	9'-2"	8'-6"	7'-11"	7'-6"
	3-2x12	15'-3"	13'-3"	11'-10"	10'-9"	10'-0"	9'-4"	8'-10"
Douglas Fir-Larch, Hem-Fir, Spruce-Pine-Fir, Redwood, Western Cedars, Ponderosa Pine, Red Pine	3x6 or 2-2x6	5'-5"	4'-8"	4'-2"	3'-10"	3'-6"	3'-1"	2'-9"
	3x8 or 2-2x8	6'-10"	5'-11"	5'-4"	4'-10"	4'-6"	4'-1"	3'-8"
	3x10 or 2-2x10	8'-4"	7'-3"	6'-6"	5'-11"	5'-6"	5'-1"	4'-8"
	3x12 or 2-2x12	9'-8"	8'-5"	7'-6"	6'-10"	6'-4"	5'-11"	5'-7"
	4x6	6'-5"	5'-6"	4'-11"	4'-6"	4'-2"	3'-11"	3'-8"
	4x8	8'-5"	7'-3"	6'-6"	5'-11"	5'-6"	5'-2"	4'-10"
	4x10	9'-11"	8'-7"	7'-8"	7'-0"	6'-6"	6'-1"	5'-8"
	4x12	11'-5"	9'-11"	8'-10"	8'-1"	7'-6"	7'-0"	6'-7"
	3-2x6	7'-4"	6'-8"	6'-0"	5'-6"	5'-1"	4'-9"	4'-6"
	3-2x8	9'-8"	8'-6"	7'-7"	6'-11"	6'-5"	6'-0"	5'-8"
3-2x10	12'-0"	10'-5"	9'-4"	8'-6"	7'-10"	7'-4"	6'-11"	
3-2x12	13'-11"	12'-1"	10'-9"	9'-10"	9'-1"	8'-6"	8'-1"	

Table 5

	Rim Board or Band Joist	Joist Span						
		6'-0" and less	6'-1" to 8'-0"	8'-1" to 10'-0"	10'-1" to 12'-0"	12'-1" to 14'-0"	14'-1" to 16'-0"	16'-1" to 18'-0"
Connection Details		On-Center Spacing of Fasteners						
$\frac{1}{2}$ " diameter lag screw ¹ with $\frac{15}{32}$ " maximum sheathing	1" EWP	24"	18"	14"	12"	10"	9"	8"
	1- $\frac{1}{8}$ " EWP	28"	21"	16"	14"	12"	10"	9"
	1- $\frac{1}{2}$ " Lumber	30"	23"	18"	15"	13"	11"	10"
$\frac{1}{2}$ " diameter bolt with $\frac{15}{32}$ " maximum sheathing	1" EWP	24"	18"	14"	12"	10"	9"	8"
	1- $\frac{1}{8}$ " EWP	28"	21"	16"	14"	12"	10"	9"
	1- $\frac{1}{2}$ " Lumber	36"	36"	34"	29"	24"	21"	19"
$\frac{1}{2}$ " diameter bolt with $\frac{15}{32}$ " maximum sheathing and $\frac{1}{2}$ " stacked washers ^{2,7}	1- $\frac{1}{2}$ " Lumber	36"	36"	29"	24"	21"	18"	16"



Handrail Grip Size



Handrail Mounting Examples

**AURELIUS TOWNSHIP
1939 S. AURELIUS ROAD
MASON, MI 48854
(517) 628-2093**

Property Line Verification

I certify that the location of the property line is true and correct as identified to the Zoning Administrator.

If the location of the property line is incorrect, I am responsible for identifying the property line and moving the building if necessary.

Signature of property owner

Print name of property owner

Address	City	State	ZIP
----------------	-------------	--------------	------------

Date

Permit # _____

AURELIUS TOWNSHIP
1939 S. Aurelius Road · Mason, Michigan 48854-9729
(517) 628-2093 · Fax (517) 628-3989

REQUIREMENTS FOR DECKS, LANDINGS, STAIRS, GUARDRAILS AND HANDRAILS

LANDINGS

1. There shall be a floor or landing on each side of each exterior door if the stairs serving the door has over two risers. The landing shall not be more than 7 ¾" below the top of the door threshold.
2. The width of the landing shall not be less than the door served and have a minimum of 36" in the direction of the travel.

STAIRS

1. The maximum riser height shall be 8 ¼". The greatest riser height shall not exceed the smallest by more than 3/8".
2. The minimum tread depth shall be 9". This is measured from the leading edge of each tread. The greatest tread depth shall not exceed the smallest by more than 3/8".

GUARDRAILS

1. Guards are required if the floor of the deck or landing is 30 inches or more off the ground. Guards must be a minimum of 36" high.
2. Open sides of stairs with a total rise of more than 30 inches above the ground below shall have guards not less than 34 inches in height measured vertically from the nosing of the treads.
3. Required guards on open sides of stairways, porches, decks or landings shall have intermediate rails which do not allow passage of a sphere 4 inches or more in diameter.

HANDRAILS

1. Handrails shall be provided on at least one side of stairs with four or more risers and be continuous the full length of the stairs.
2. Handrail height shall not be less than 34 inches and not more than 38 inches. The height is measured vertically from the leading edge (nosing) of the tread.
3. Handrails must be gripable and must provide a graspable finger area on both sides. A minimum of 1 ¼" diameter and a maximum of 2 ¾" is required. A solid 2 x 4 or 2 x 6 on edge or laying flat is not a gripable handrail.

FOOTING SIZES FOR POLE BUILDINGS: THIS IS FOR 3000# PER SQUARE FOOT SOIL CAPACITY

WIDTH OF BUILDING	POLE SPACING FOR SINGLE STORY BUILDING						
	4 FEET	6 FEET	8 FEET	10 FEET	12 FEET	14 FEET	16 FEET
16 FEET	6"X12"	6"X12"	6"X14"	6"X14"	8"X16"	8"X18"	8"X18"
20 FEET	6"X12"	6"X12"	6"X14"	8"X16"	8"X18"	10"X20"	10"X20"
24 FEET	6"X12"	8"X16"	8"X16"	8"X18"	10"X20"	10"X22"	10"X22"
28 FEET	6"X12"	8"X16"	8"X18"	10"X20"	10"X22"	10"X22"	12"X24"
32 FEET	6"X12"	8"X16"	8"X18"	10"X20"	10"X22"	12"X24"	12"X26"
36 FEET	6"X12"	8"X18"	10"X20"	10"X20"	10"X22"	12"X24"	12"X28"
40 FEET	6"X14"	8"X18"	10"X20"	12"X24"	12"X26"	12"X28"	12"X28"
44 FEET	8"X16"	8"X18"	10"X22"	12"X24"	12"X26"	12"X28"	14"X30"
48 FEET	8"X16"	10"X20"	10"X22"	12"X26"	12"X28"	14"X30"	14"X32"
52 FEET	8"X16"	10"X20"	12"X24"	12"X26"	12"X28"	14"X30"	14"X32"
56 FEET	8"X18"	10"X22"	12"X24"	12"X28"	14"X30"	14"X32"	16"X34"
60 FEET	8"X18"	10"X22"	12"X26"	12"X28"	14"X30"	16"X34"	16"X36"
64 FEET	8"X18"	10"X22"	12"X26"	12"X28"	14"X32"	16"X34"	16"X36"

FOOTING CONCRETE:

FOOTING SIZE	APPROXIMATE NUMBER OF REDI-MIX BAGS OF CONCRETE*	
	80# BAGS	50# BAGS
6"X12"	1/2 BAG	1 BAG
6"X14"	1 BAG	1 1/2 BAGS
8"X16"	1 1/2 BAGS	2 1/2 BAGS
8"X18"	2 BAGS	3 BAGS
10"X20"	2 1/2 BAGS	4 1/2 BAGS
10"X22"	3 1/2 BAGS	5 1/2 BAGS
12"X24"	4 1/2 BAGS	7 1/2 BAGS
12"X26"	5 1/2 BAGS	9 BAGS
12"X28"	6 1/2 BAGS	10 1/2 BAGS
14"X30"	8 1/2 BAGS	14 BAGS
14"X32"	10 BAGS	15 1/2 BAGS
16"X34"	12 1/2 BAGS	20 1/2 BAGS
16"X36"	14 1/2 BAGS	23 BAGS

*Above numbers are rounded to nearest 1/2 bag. 1 1/2 - 80 pound bags or 2 1/2 - 50 pound bags equal approximately 1 cubic foot of mixed concrete based on information provided by QUIKRETE® Concrete Supply Company.

CARRIER SIZES FOR POLE BUILDINGS: THIS IS FOR SPRUCE-PINE-FIR #2 OR BETTER

WIDTH OF BUILDING	POLE SPACING FOR SINGLE STORY BUILDING						
	4 FEET	6 FEET	8 FEET	10 FEET	12 FEET	14 FEET	16 FEET
16 FEET	2-2"X4"	2-2"X6"	2-2"X8"	2-2"X10"	2-2"X12" ^A	3-2"X12" ^C	3-2"X12" ^C
20 FEET	2-2"X6"	2-2"X8"	2-2"X8"	2-2"X10"	2-2"X12" ^A	3-2"X12" ^C	4-2"X12"
24 FEET	2-2"X6"	2-2"X8"	2-2"X10"	2-2"X10"	2-2"X12" ^A	3-2"X12" ^C	4-2"X12"
28 FEET	2-2"X8"	2-2"X10"	2-2"X12" ^A	3-2"X12" ^C	4-2"X12"		
32 FEET	2-2"X8"	2-2"X12" ^A	2-2"X12" ^A	3-2"X12" ^C	4-2"X12"		
36 FEET	2-2"X8"	2-2"X12" ^A	3-2"X12" ^C	4-2"X12"	4-2"X12"		
40 FEET	2-2"X10"	3-2"X10" ^B	3-2"X12" ^C	4-2"X12"			
44 FEET	2-2"X10"	3-2"X10" ^B	4-2"X10"	4-2"X12"			
48 FEET	2-2"X12" ^A	3-2"X12" ^C	4-2"X12"				
52 FEET	2-2"X12" ^A	3-2"X12" ^C	4-2"X12"				
56 FEET	2-2"X12" ^A	3-2"X12" ^C	4-2"X12"				
60 FEET	3-2"X10" ^B	4-2"X10"					
64 FEET	3-2"X10" ^B	4-2"X10"					

MUST BE ENGINEERED

^A3-2"X10" MAY BE USED INSTEAD OF 2-2"X12"
^B4-2"X8" MAY BE USED INSTEAD OF 3-2"X10"
^C4-2"X10" MAY BE USED INSTEAD OF 3-2"X12"

BUILDING DIMENSIONS AND DOOR AND WINDOW OPENING LOCATIONS:

PLEASE DRAW IN ALL DOORS AND WINDOW, SHOW SIZES, AND WRITE IN THE DIMENSIONS OF THE BUILDING

FEET

FEET