

MASTER

MARATHON TOWNSHIP BUILDING DEPARTMENT
POLE BARN PLAN REVIEW

ADDRESS of BUILDING _____

Width _____ Length _____ Height _____
Square Foot _____

SIZE OF OPENINGS ON BEARING WALLS

Doors _____
Windows _____

PORCHES OR OTHER ATTACHEMENTS TO BUILDING

Please List _____

FOOTINGS Size _____ Depth _____
POST Size _____ Spacing _____

EXTERIOR FINISH TO BE

Walls _____ Roof _____

ANY MASONRY Yes _____ or No _____ If Yes Where _____

VENTILATION Roof _____ Eave _____

HEADER OR CARRIER SIZE _____

WALL GIRTS SPACING _____

CONCRETE FLOOR Yes _____ No _____

ANY ENGINEERED PRODUCTS OR PLANS Yes _____ No _____

ANY TRADES AT THIS TIME Yes _____ No _____

TRUSS PRINTS MUST BE ON JOB AT TIME OF FINAL INSPECTION

ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL INTO
TREATED POSTS AND ALL TREATED MATERIAL

IF GARAGE IS ATTACHED TO HOUSE, MUST HAVE VAPOR BARRIER ON
WALLS & ELECTRICAL PERMIT

Signature of Homeowner / Contractor

Marathon Township

4575 Pine St

PO Box 457

Columbiaville MI 48421

810-793-2002

Name _____

Permit #: _____

Snow Load: _____

Girt Size: _____

Purlin Size: _____

Pole Spacing: _____

Header Size: _____

Truss Spacing: _____

Truss Support Girt Size: _____

Treated Bottom Girt Size: _____

Pole Size (Treated): _____

Pole Grade Min. Ret. AWPALP22 0.60# pfc

Engineered Truss Drawing Required _____

Lateral Bracing to Truss Mfg. Specs. _____

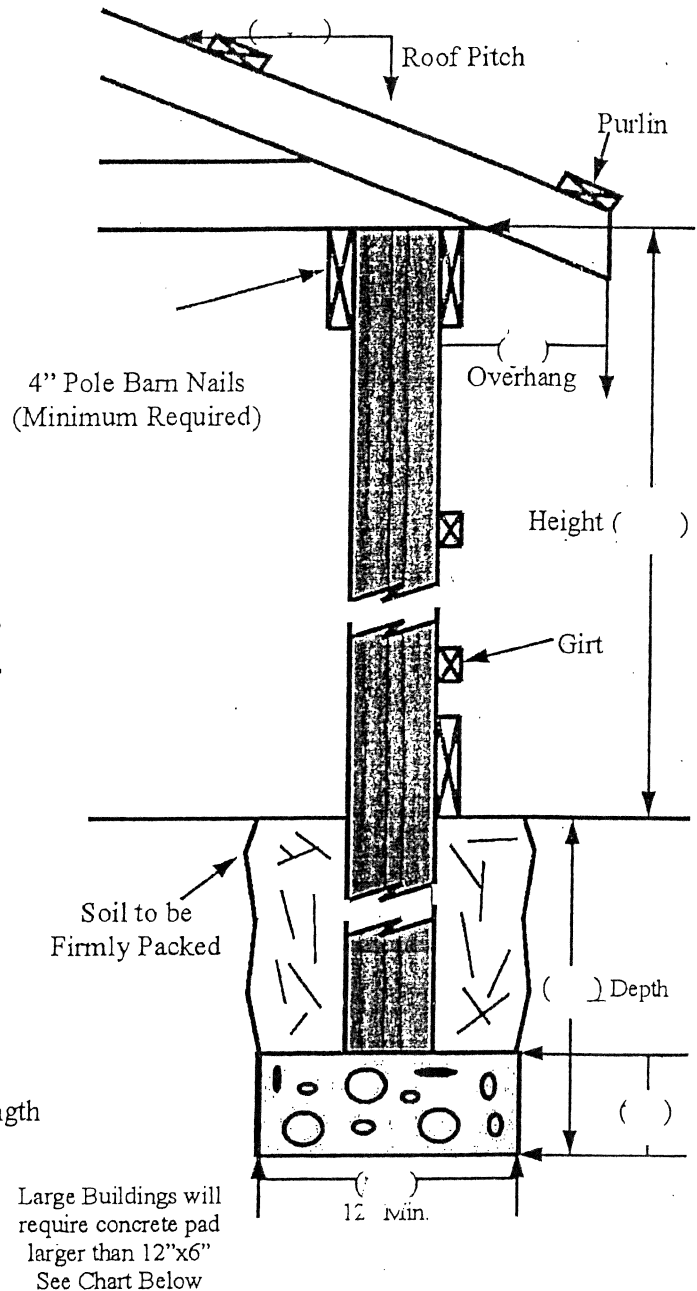
Roof Materials: _____

Siding Materials: _____

Floor Depth: _____

BASIC POLE

BARN



Width _____

Length _____

Show All Windows and Doors
(Service, Sliders, or Overhead Doors)

Type of Floor _____

Concrete or Other _____

Total Square Feet _____

Large Buildings will
require concrete pad
larger than 12"x6"
See Chart Below

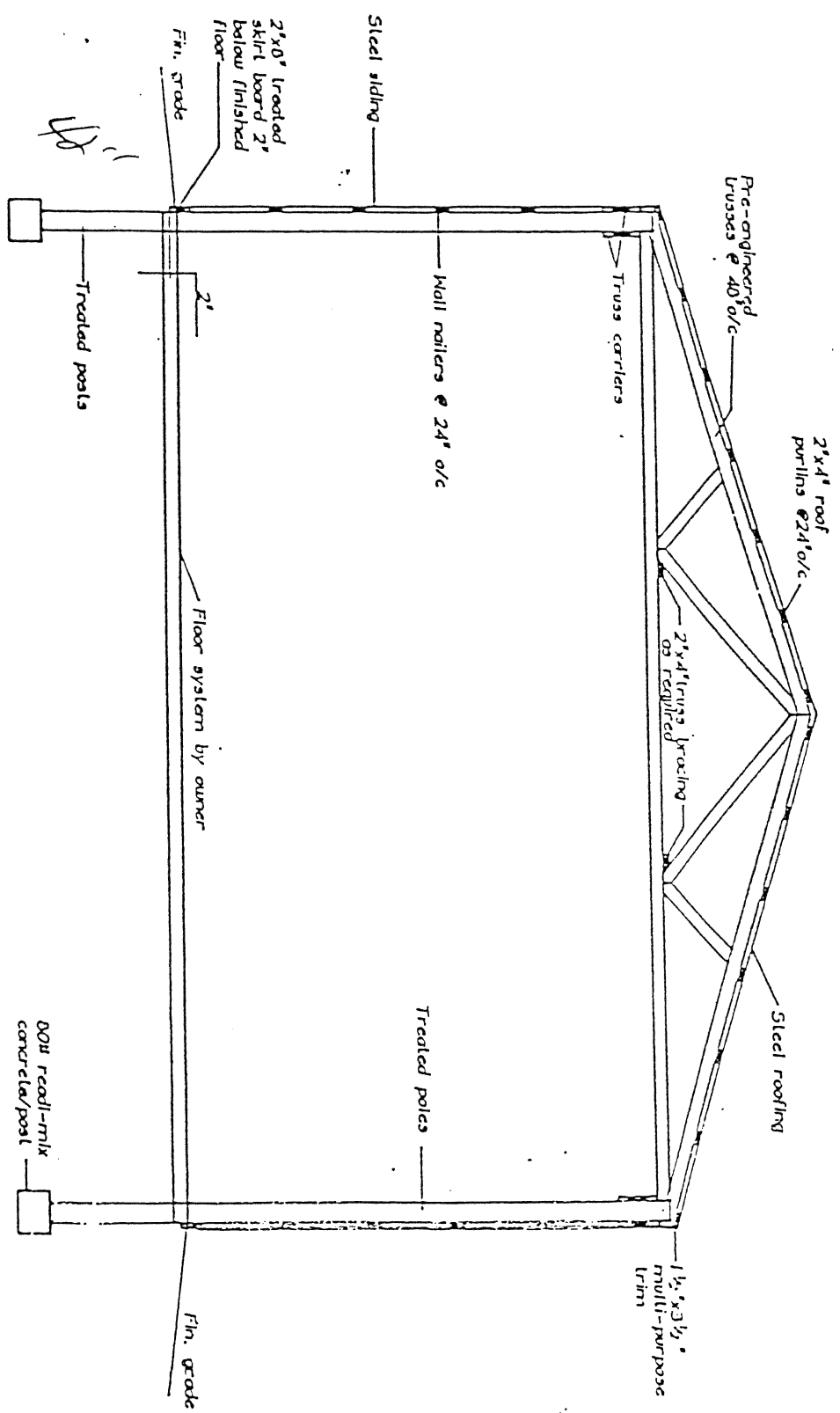
Building Width		20'	24'	26'	28'	30'	32'	34'	36'	40'
8' post spacing	Hole Diameter	12"	14"	16"	17"	17"	18"	18"	19"	20"
	Concrete Thickness	6"	7"	8"	8.5"	8.5"	9"	9"	9.5"	10"
10' post spacing	Hole Diameter	16"	17"	18"	18.5"	19"	20"	20.5"	21"	22"
	Concrete Thickness	8"	8.5"	9"	9.25"	9.5"	10"	10.25"	10.5"	11"

TRENCH FOOTING

RIDGE VENT
 12
 PITCH
 ROOF COVERING: _____
 TRUSSES: _____ x _____ @ _____" O.C.
 RAFTERS: _____ x _____ @ _____" O.C.
 15# FELT _____
 ROOF SHEATHING: _____" & TYPE _____
 ICE & WATER GUARD _____ INCH.
 EAVE WIDTH: _____
 FACIA: _____
 SOFFIT VENT: _____ SQ. FT.
 EXTERIOR FINISH: _____
 EXTERIOR WALL SHEATHING: _____
 EXTERIOR WALL STUDS: _____ x _____ @ _____" O.C.
 SILL PLATE W/sealer _____ x _____
 ANCHOR BOLTS: _____" DIAMETER
 Ft. SPACING
 8" C.M.U. _____ COARSE
 DAMPROOFING _____ OR
 WATERPROOFING
 Min. 6" in 1st 10 ft. Slope away from Bldg.
 FINISHED GRADE
 8" POURED CONCRETE _____ HT.
 FOOTING DEPTH: _____"
 MINIMUM:
 24" SAND OR GRAVEL
 42" OTHER
 FLOOR MATERIAL THICKNESS: _____
 FLOOR JOISTS: _____ x _____ @ _____" O.C.
 OR I-JOISTS SIZE _____ @ _____" O.C.
 FLOOR SHEATHING: _____" TYPE
 CEILING JOISTS: _____ x _____ @ _____" O.C.
 HEADER SIZES: _____ x _____
 CEILING INSULATION: _____" R _____
 WALL INSULATION: _____" R _____
 DRYWALL: _____ WALLS: _____
 CEILING: _____
 INTERIOR FINISH: _____
 INTERIOR WALL STUDS: _____ x _____ @ _____" O.C.
 BEAM OR GIRDER SIZE:
 NUMBER _____ SIZE 2 X
 COLUMN SPACING
 _____" Diameter or _____" x _____
 REROD _____" DIAMETER
 SOIL DESIGN VALUE _____ PSF
 FOOTING SIZE:
 _____ x _____ x _____" DEEP

SPECIFICATIONS SHEET/CROSS-SECTION
ADDITIONAL INFORMATION MAYBE REQUIRED!

11mm cut truss
 1/2" to
 0 1/2"
 12" drip edge
 1/4" sub-fascia
 1-piece steel soffits



STANDARD PACKAGE TYPICAL SECTION

No Scale

Marathon Township-Building Dept.
4575 Pine St.
Columbiaville, MI 48421

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"X18"	8"X18"	10"X20"	10"X22"	12"X24"	12"X26"
36 FEET	6"X12"	8"X18"	10"X20"	10"X22"	12"X26"	12"X26"	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 BAG	1 BAG
6"X14"	1 BAG	1 1/2 BAGS
8"X16"	1 1/2 BAGS	2 BAGS
8"X18"	2 BAGS	3 BAGS
10"X20"	2 1/2 BAGS	4 BAGS
10"X22"	3 BAGS	5 1/2 BAGS
12"X24"	4 BAGS	7 BAGS
12"X26"	5 1/2 BAGS	9 BAGS
12"X28"	6 1/2 BAGS	10 1/2 BAGS
14"X30"	8 BAGS	14 BAGS
14"X32"	10 BAGS	15 1/2 BAGS
16"X34"	12 1/2 BAGS	20 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"	3-2"X12"	3-2"X12"
20 FEET	2-2"X6"	2-2"X8"	2-2"X8"	2-2"X10"	2-2"X12"	3-2"X12"	4-2"X12"
24 FEET	2-2"X6"	2-2"X8"	2-2"X10"	2-2"X10"	2-2"X12"	3-2"X12"	4-2"X12"
28 FEET	2-2"X8"	2-2"X10"	2-2"X12"	3-2"X12"	4-2"X12"		
32 FEET	2-2"X8"	2-2"X12"	3-2"X12"	3-2"X12"	4-2"X12"		
36 FEET	2-2"X8"	2-2"X12"	3-2"X12"	4-2"X12"	4-2"X12"		
40 FEET	2-2"X10"	3-2"X10"	3-2"X12"	4-2"X12"			
44 FEET	2-2"X10"	3-2"X10"	4-2"X10"	4-2"X12"			
48 FEET	2-2"X12"	3-2"X12"	4-2"X12"				
52 FEET	2-2"X12"	3-2"X12"	4-2"X12"				
56 FEET	2-2"X12"	3-2"X12"	4-2"X12"				
60 FEET	3-2"X10"	4-2"X10"					
64 FEET	3-2"X10"	4-2"X10"					

^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"

CARRIER SIZES FOR POLE BUILDINGS:

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

FEET

FEET

SETTING THE POLES

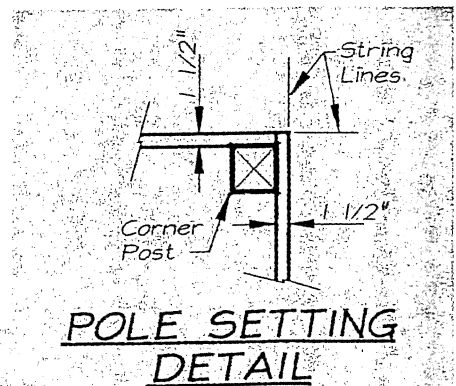
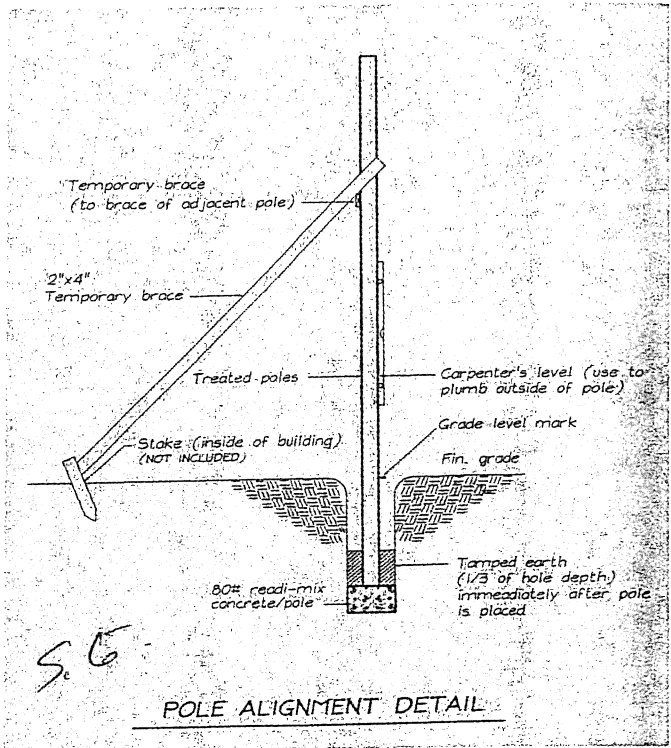
1. Place the poles in the holes and let them lean toward the inside of the building.
2. Replace the string lines. Using a carpenter's level, plumb the outside edges of all the corner poles. Remember to keep the poles $1\frac{1}{2}$ inches from the string line. Fill the holes $\frac{1}{3}$ full of dirt and tamp with a 2x4, making sure you keep the pole plumb (see detail at right).
3. Drive ground stakes (not provided) inside the building opposite the poles. Brace the poles with 2x4's from the stakes to the top of the poles. Braces should be placed so they do not interfere with the installation of the wall nailers (see detail below).

NOTE: Since 2x4 temporary braces are needed later to complete the construction of your post frame structure, avoid cutting or excessive nailing.

4. Plumb and follow the same procedure for all the intermediate poles.

NOTE: The spacing from the center of the corner pole to the center of the first intermediate pole will be different than the spacing from the center to center of two intermediate poles because of the $1\frac{1}{2}$ inch width of the wall nailer.

5. Finish filling and compacting dirt around all the poles. Check and maintain plumb while filling the holes.
6. At this point you need to determine the inside finished floor height. This can be accomplished with a transit, carpenter's level, or line level. Mark this height on the outside of all the poles.



POLE BRACING DETAIL

