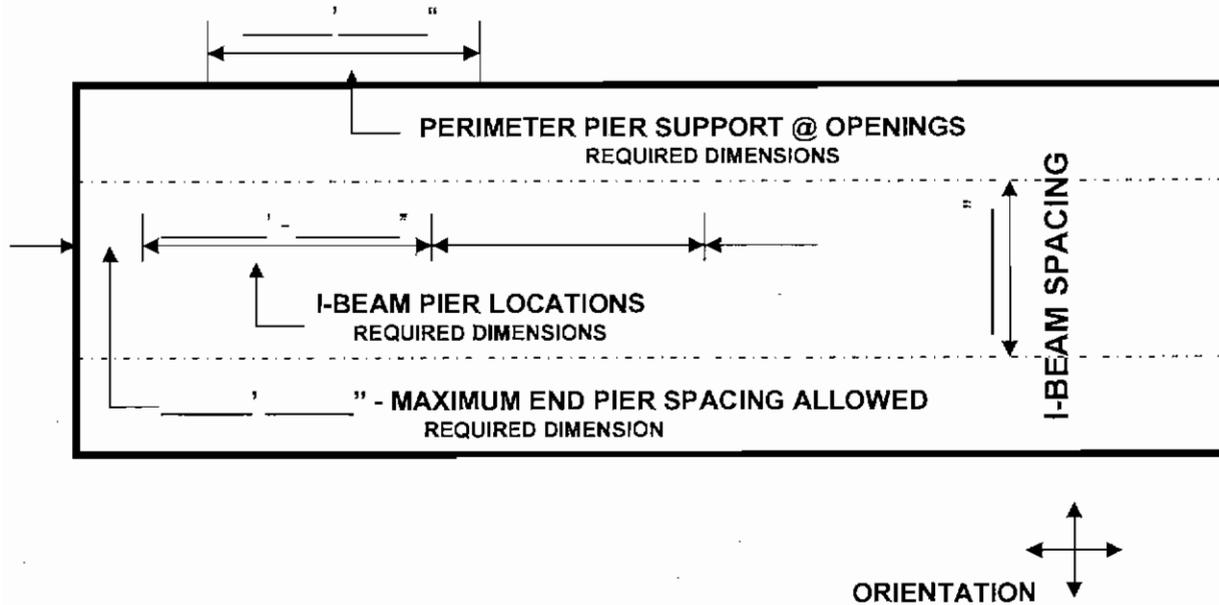


SINGLE-WIDE SUPPORT PIER PLAN (TYPICAL)



MANUFACTURER INFORMATION

Name _____

Home Size _____

Maximum I-Beam Spacing _____

Door Openings _____

I-Beam Loading PLF _____

Maximum End Support (I-Beam) _____

Ground Moisture Control ___ Yes ___ No

Grading to Slope **AWAY** From Home _____

SOIL INFORMATION

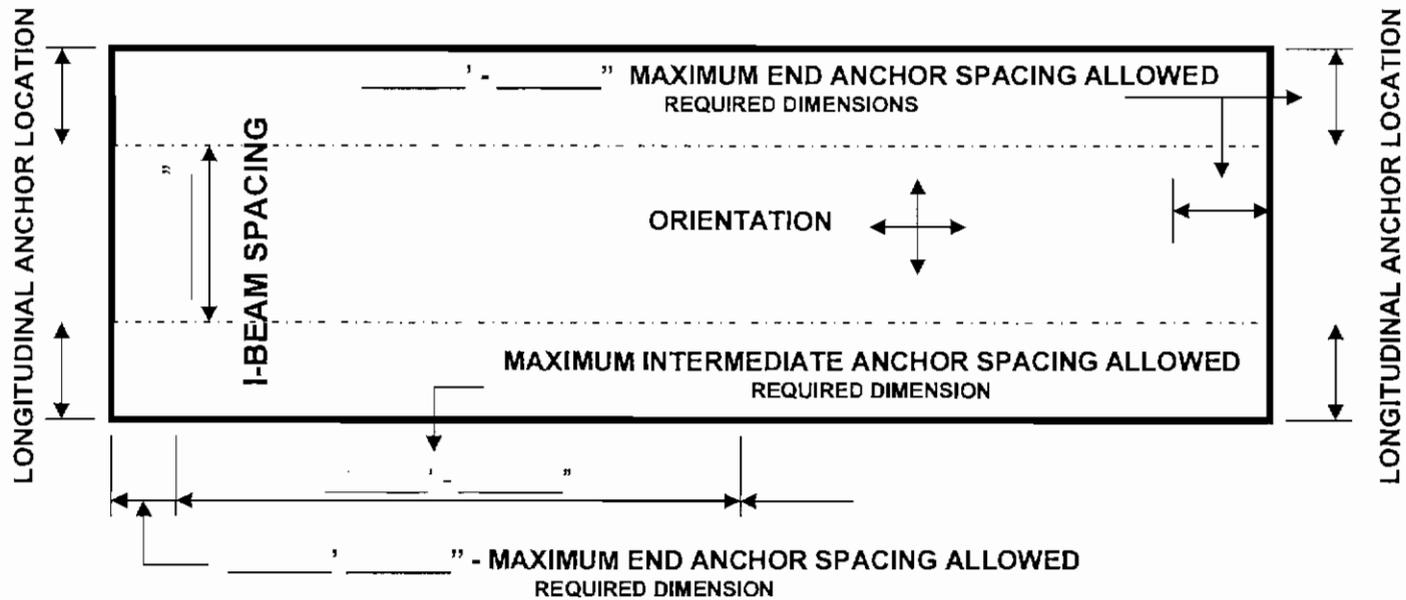
Classification No. _____

Soil Bearing Capacity _____

FOOTING INFORMATION

I-Beam _____ x _____ x _____

SINGLE-WIDE ANCHORING PLAN (TYPICAL)



MANUFACTURER INFORMATION

Name _____

Home Size _____

Maximum I-Beam Spacing _____

Maximum Anchor Spacing _____

SOIL INFORMATION

Classification No. _____

Soil Bearing Capacity _____

ANCHORING INFORMATION

Ext. Wall Height _____

Roof Pitch _____

Height From Ground to

Frame Connection _____

ANCHORING INFORMATION Cont.

Anchor Manufacturer _____

Lateral Anchors Req'd **YES** or **NO**

Anchor P.N. _____

Connector P.N. _____

Longitudinal Anchors Req'd **YES** or **NO**

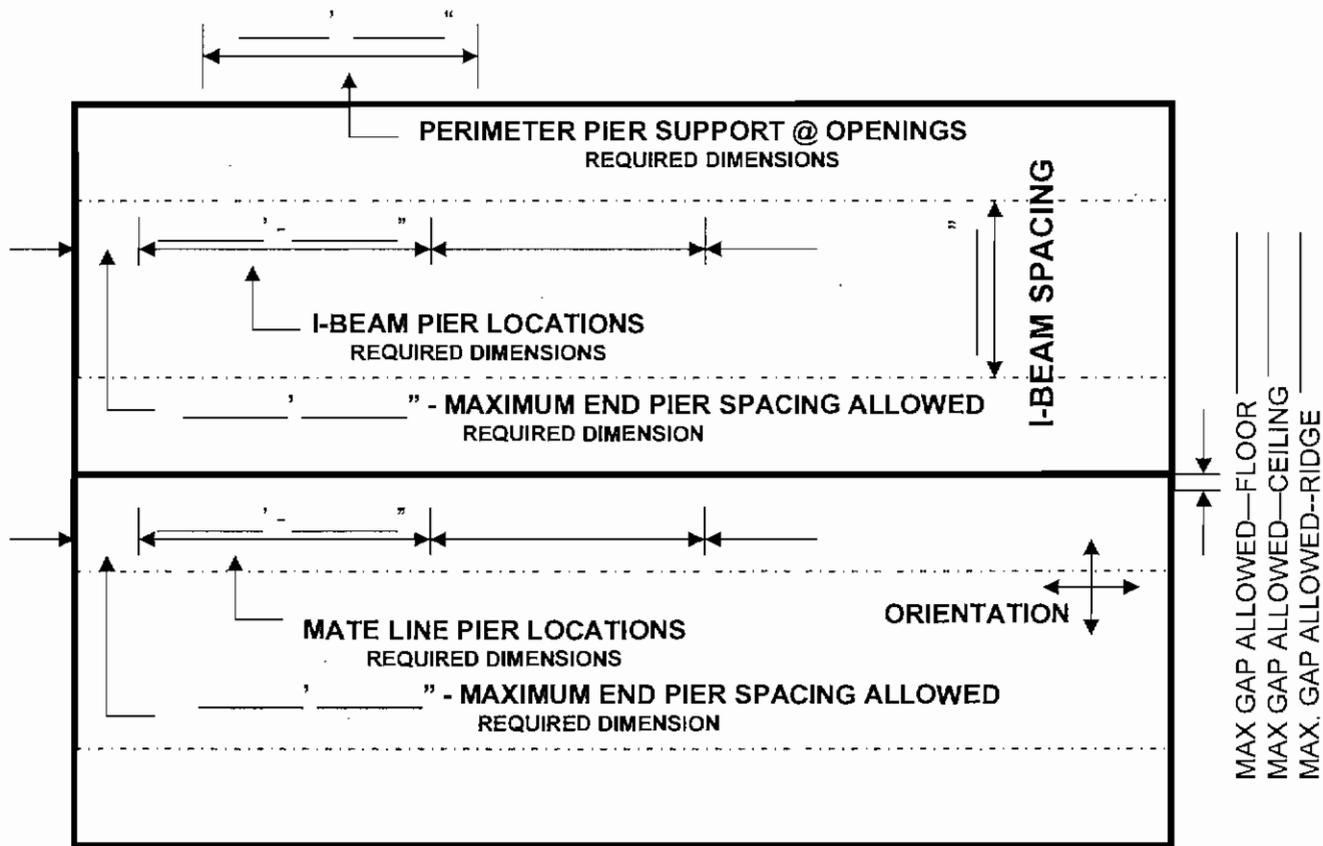
Anchor P.N. _____

Connector P.N. _____

No. Per End _____

* P.N. = Part or Product Number

DOUBLE-WIDE SUPPORT PIER PLAN (TYPICAL)



MANUFACTURER INFORMATION

Name _____

Home Size _____

Maximum I-Beam Spacing _____

Door Openings _____

I-Beam Loading PLF _____

Maximum End Support (I-Beam) _____

Ground Moisture Control Yes No

Mate Line Loads _____

Grading to Slope **AWAY** From Home _____

SOIL INFORMATION

Classification No. _____

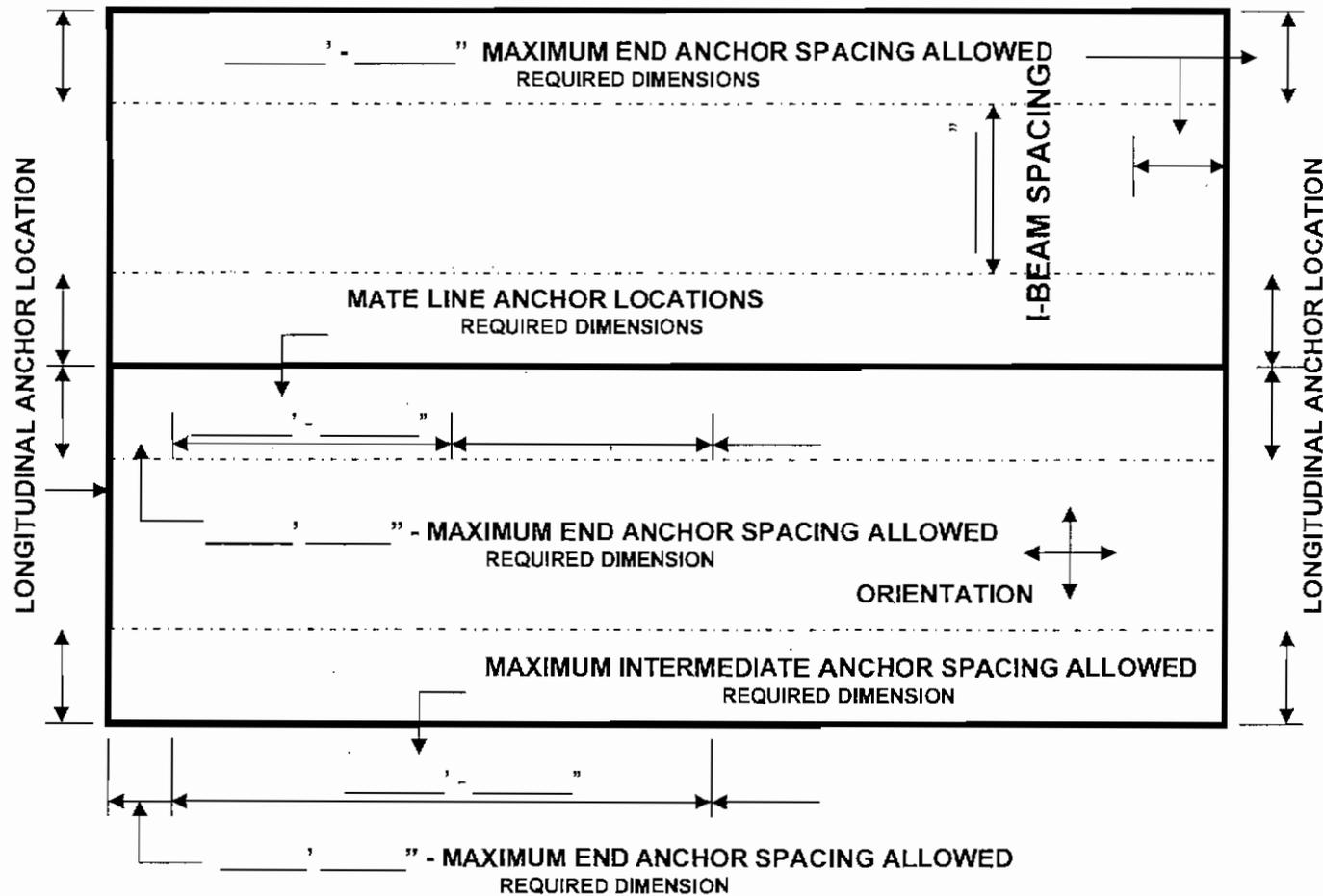
Soil Bearing Capacity _____

FOOTING INFORMATION

I-Beam _____ x _____ x _____

Mate Line _____ x _____ x _____

DOUBLE-WIDE ANCHORING PLAN (TYPICAL)



MANUFACTURER INFORMATION

Name _____

Home Size _____

Maximum I-Beam Spacing _____

Maximum Anchor Spacing _____

SOIL INFORMATION

Classification No. _____

Soil Bearing Capacity _____

ANCHORING INFORMATION

Ext. Wall Height _____

Roof Pitch _____

Height From Ground to

Frame Connection _____

ANCHORING INFORMATION Cont.

Anchor Manufacturer _____

Lateral Anchors Req'd YES or NO

Anchor P.N. _____

Connector P.N. _____

Longitudinal Anchors Req'd YES or NO

Anchor P.N. _____

Connector P.N. _____

No. Per End _____

Mate Line

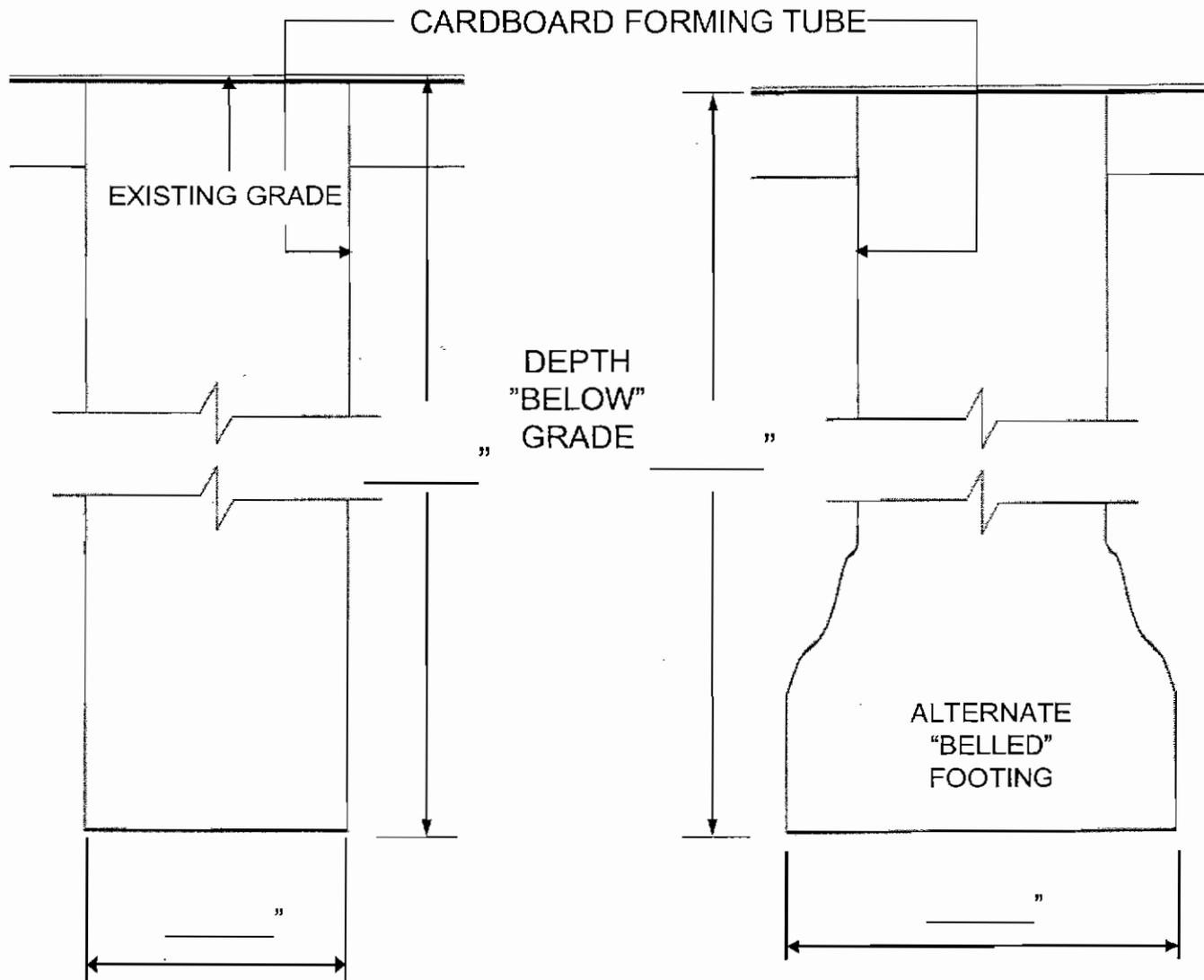
Lateral Anchors Req'd YES or NO

Anchor P.N. _____

Connector P.N. _____

* P.N. = Part or Product Number

FROST DEPTH PIER SECTION VIEW



SOIL CLASSIFICATION _____

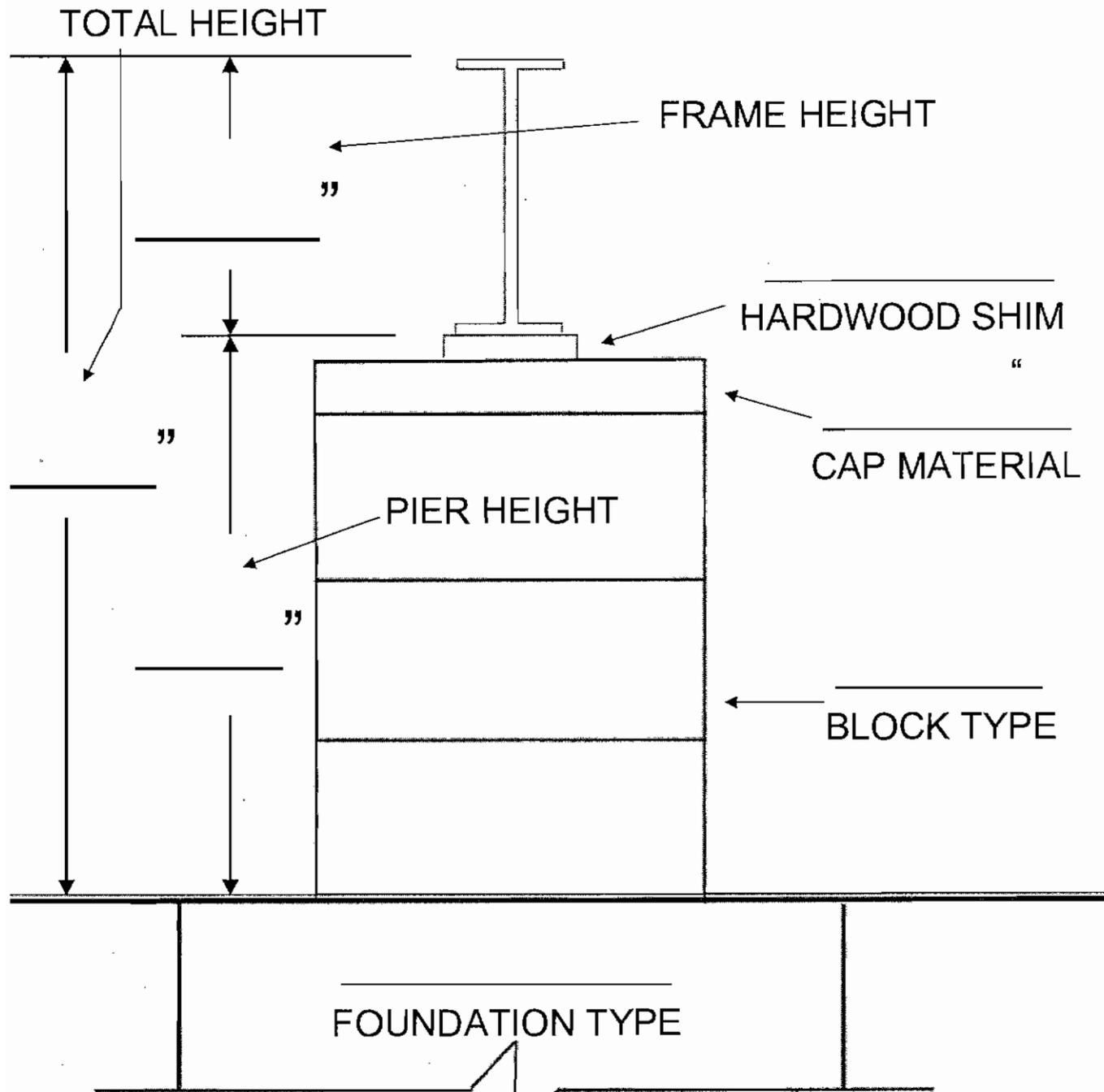
SOIL BEARING CAPACITY _____ PSF

FOOTING AREA _____ SQ. IN.

SOILS TOTAL LOAD CAPACITY _____

PSI CONCRETE _____

FRAME PIER SECTION VIEW



Plan View Landing or Deck

Additions, i.e. porches, decks, or entry landings constructed on-site shall be self-supporting and shall not be attached to manufactured homes. MSBC Chapter 1350.0400, Subp. 3

BEAMS (Typical)

____ # of plys. ____ " x ____ "

(Check One of the Following)

- .40 ACQ Pressure Treated Wood
- Cedar
- Redwood
- Post to Beam Connector ____ P.N.

SUPPORT POSTS (Typical)

____ " x ____ "

(Check One of the Following)

- .40 ACQ Pressure Treated Wood
- Cedar
- Redwood

JOIST (Typical)

____ " x ____ "

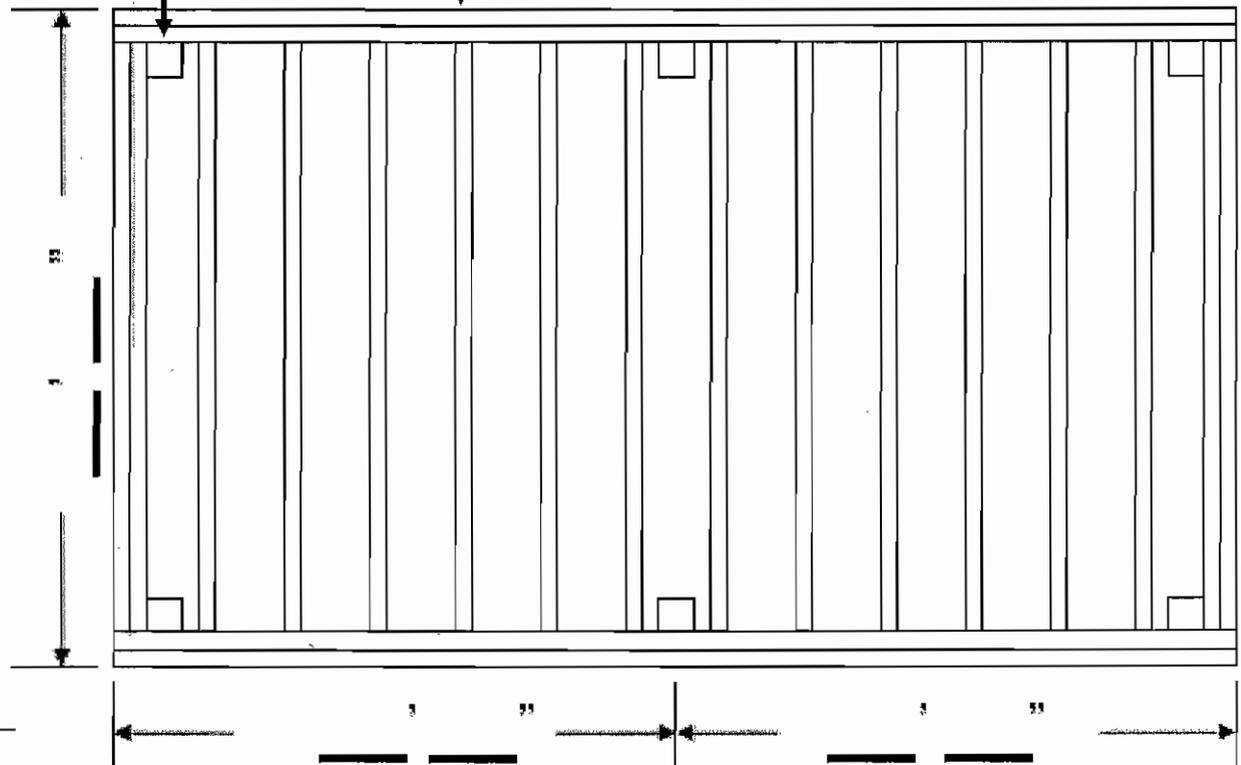
(Check One of the Following)

- .40 ACQ Pressure Treated Wood
- Cedar
- Redwood

OTHER REQUIRED JOIST INFO.

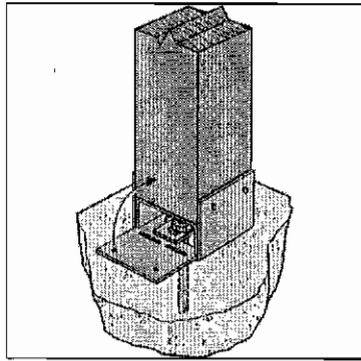
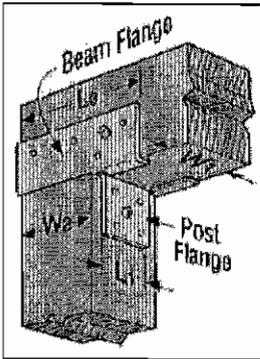
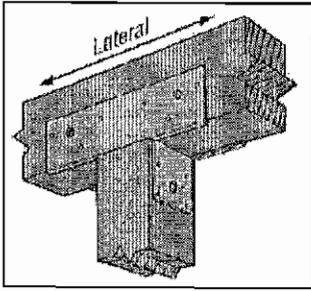
____ " On Center Spacing

- Beam to Joist Fastener ____ d # ____
- Hanger Product # _____



P.N. = Product Number

Landing/Deck Section



SUPPORT POSTS (Typical)

___ " x ___ "

(Check One of the Following)

- .40 ACQ Pressure Treated Wood
- Cedar
- Redwood

BEAMS (Typical)

___ # of plys. ___ " x ___ "

(Check One of the Following)

- .40 ACQ Pressure Treated Wood
- Cedar
- Redwood
- Post to Beam Connector ___ P.N.
- Post to Footing Connector ___ P.N.

JOIST (Typical)

___ " x ___ "

(Check One of the Following)

- .40 ACQ Pressure Treated Wood
- Cedar
- Redwood

OTHER REQUIRED JOIST INFO.

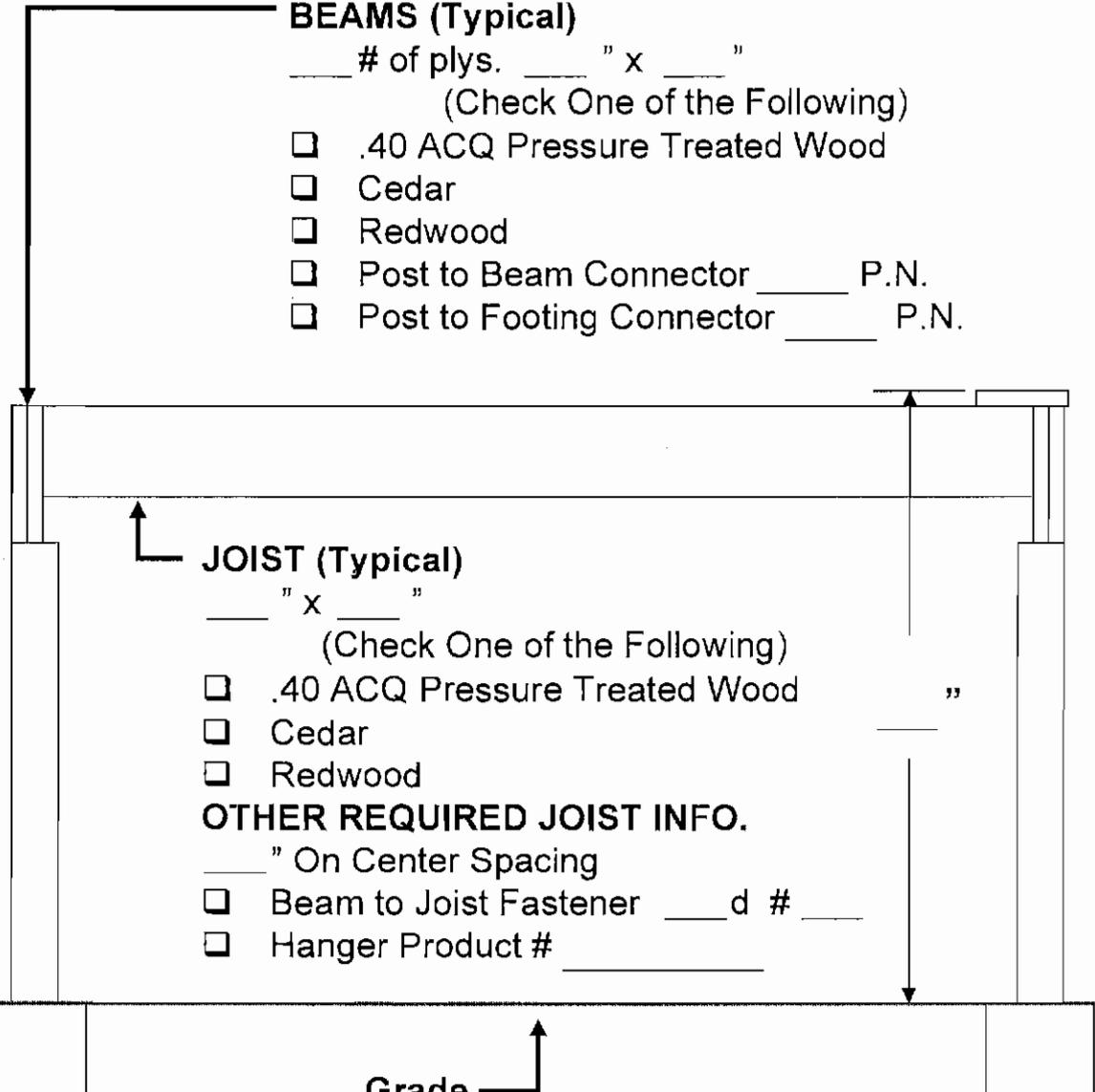
- ___ " On Center Spacing
- Beam to Joist Fastener ___ d # ___
- Hanger Product # _____

FOOTING CONFIGURATION

___ " x ___ " x ___ "

Grade

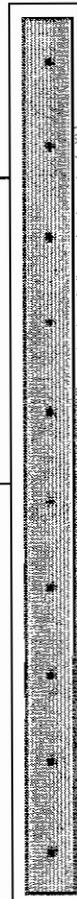
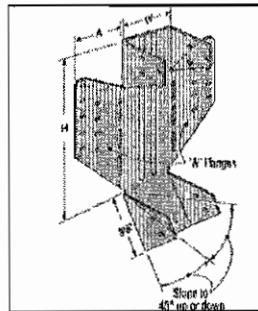
P.N. = Product Number



Stair/Handrail Section Details

Stair Section

- Stringer size and species;
- Rise and run dimension;
- Tread size and species;
- Riser size and species;
- Stringer to landing connection.



Guard/Handrails Section

- Rail and post size and species;
- Opening treatment;
- Connections/Fasteners.

Stair and Landing Requirements

1. Stairways with a total rise of 30 inches or more above grade shall be provided with guards not less than 34 inches high measured from the tread nose.
2. Guards shall have intermediate rails spaced so that a 4-3/8 inch sphere can not pass through.
3. The triangular area formed by the treads and a horizontal bottom rail shall be built as to not allow the passage of a 6 inch sphere.
4. Attach stair stringers to the deck with metal straps or hangers.
5. Minimum tread depth is 10 inches. All treads shall be uniform in depth within 3/8 inch from the largest to the smallest. A nosing of 1/4 inch to 1-1/4 inch shall be provided on stairways with solid risers, and the nosings shall also be uniform within 3/8 of an inch from largest to smallest.
6. Maximum riser height is 7-3/4 inches. Risers shall be uniform within 3/8 inch from the largest to the smallest riser.
7. When using composite lumber for stair treads they must be installed with the specified maximum stringer spacing listed in the products testing report.
8. The grippable handrail shall be installed between 34 and 38 inches above the sloped plane formed by the tread nosings of the stairway.
9. Handrails shall be continuous the full length of the stairway and shall either terminate into a newel post or be returned into the guardrail as shown. Provide 1-1/2 inches clearance between handrail and guard.
10. The minimum width of a stairway is 36 inches. Handrails are allowed to project up to 4-1/2 inches into the minimum allowed width.
11. The bottom of stair stringers shall be supported on a hard level surface like concrete or paver or shall be provided with treated wood blocks to keep the stringers from sinking into the ground.
12. A level landing measuring a minimum of 36" x 36" shall be provided at the top and bottom of stairways.
13. Open risers shall be constructed as to not allow the passage of a 4 inch sphere.

Manufactured Home Plan Review Submittal Requirements

In Minnesota, a building permit is required prior to initiating any work for the installation of a new manufactured home or for the re-installation of a used manufactured home. To obtain a building permit an owner or MN licensed manufactured home installer (installer) must first complete and submit a building permit application to the local authority having jurisdiction (Building Official), or, in areas of Minnesota where the Minnesota State Building Code (MSBC) isn't being administered or enforced locally, to the State of Minnesota's Construction Codes and Licensing Division (CCLD). Every building permit application for the installation of a manufactured home is to be accompanied by plans, drawings, and specifications for the manufactured home's installation and by a letter or certificate of local zoning approval. In areas of MN where the MSBC isn't being locally administered the building permit application, plans, drawings, and specifications and a letter or certificate of local zoning approval are to be mailed to the CCLD at 443 Lafayette Road North, St. Paul, MN, 55155, to the attention of the Manufactured Structures Section. Upon the owner or installer's receipt of a building permit card or approval letter, work completed for the installation of a manufactured home may commence.

The CCLD has developed the plans, drawings, and specifications checklist below for building permit applications submitted to it for review. This checklist outlines only a portion of the installation requirements for a manufactured home. A more complete list of a manufactured home's installation requirements is found in the manufactured home manufacturer's installation manual or when the manufacturer's installation manual is no longer available the Federal Installation Standards 24 CFR 3285 and CFR 3286, or Minnesota Rule 1350 and the MSBC. To complete the manufactured home checklist the following information must be submitted:

A dimensioned site plan that details: (a) lot size; (b) property lines; (c) building size(s) for all buildings and structures on the property; (e) set-backs of the home to the property lines and to the other structures on the site; (f) existing and proposed elevations of the area where the home is to be installed; and (g) grading and drainage plans for the site;

A support and anchoring plan. Choose the support and anchoring plan that most accurately reflects the home to be installed. For information specific to soil bearing, it is recommended that at least 2 soil bearing tests be completed to establish the site soil's maximum bearing capacity; and that the two tests be completed at opposite ends of the area where the home is to be sited;

A Frost Depth Pier Section drawing, if applicable, that best fits the pier that will be constructed at the site of installation;

A Frame Support Pier Section drawing. The information required for the frame height will need to be obtained from the home manufacturer. The frame pier constructed at the site may be configured differently than the one shown on the drawing, but must provide a minimum 12" from the lowest frame member to the grade or slab under the home; and

A Deck/Landing/Stair Construction Packet—is a 3 page document.

NOTE: Each of the required forms developed are laid out in a "fill in the blank" format; and requests the minimum information necessary to complete its review of the proposed installation for compliance with the MSBC. This means that each form must be completed accurately, legibly and in its entirety.

For your information:

- When the under-floor area is enclosed or "skirted" it must be ventilated; and provided with a minimum 18" wide by 24" high access opening.
- Site installed and manufacturer constructed, water piping, drain waste piping, and fuel supply piping are required to be pressure tested in accordance with the home manufacturer's requirements and MN Rules Chapter 1350.3400, prior to connecting them to the site's utility services;
- Water piping installed below the bottom board of the home is to be protected from freezing. If heat tapes are used, they must be listed for this use and installed according to their installation instructions;
- Drain waste fittings and piping that are "shipped loose" (provided by the manufacturer) are to be installed and supported as detailed in the designs or instructions provided by the manufacturer and the requirements of 24 CFR 3280.608. When the shipped loose fittings and piping are not installed in accordance with the manufacturer's instructions, the piping shall then be installed and supported in accordance with MN Rules Chapter 4715—the MN State Plumbing Code;
- Electrical work completed on the site and in the completion of the home requires a separate electrical permit and inspection and operational testing prior to occupancy;
- For the installation inspection requirements of the home, please contact the local building official
- The applicant is responsible for securing all other local permits, fees, inspections and approvals for, but not limited to, Zoning, Sewer and Water Access, Wells, and On-Site Sewage Disposal Systems.