

US 61 CROSSING COMPRESSIVE PILE CAPACITIES

Independent Technical Review



IE QMS - Americas

Detail Check

Project Name Lake Maurepas Diversion

Client CPRA

Project Location St. John the Baptist Parish, LA

PM Naveen Chillara

Project Number 10001876

PIC Mike Patorno

Identifying Information

(This section is to be completed by the Project Manager or the PM's Designee.)

Assigned Checker: Graham Forsythe

Comments Required by: June 18, 2013

Work Product Originator: Ignacio Harrouch

Work Product to be Checked: Pile capacities

☒ This Detail Check is a check for correctness, completeness and technical accuracy.

☐ This Detail Check is only a technical edit for format, spelling, grammar, pagination and readability.

Specific Instructions: Enter specific instructions for the work product.

Submitted by:

Project Manager Signature

Date

Comments

(This Section is to be completed by the Checker.)

Select:

A. ☒ Checker has no comments.

or

B. ☐ Comments have been provided on:

☐ Marked directly on work product

☐ Comment and Disposition Form 3-5

☐ Other; Specify: Discussed with originator

Checker Signature

6/18/2013

Date

Verification

(This section is to be completed by the Checker after verification of comment incorporation, if box B is checked off above.)

Select:

C. ☐ Verification of comment incorporation has been performed by Checker. There are no outstanding issues.

or

D. ☐ Verification of comment incorporation has been performed by Checker. Unresolved issues have been submitted to the Project Manager or Designee for final resolution.

and

E. ☐ Checker asserts that the work product review is complete.

Checker Signature

Date

APPROVAL and DISTRIBUTION

☒ Detail Check is complete.

Project Manager or Designee Signature

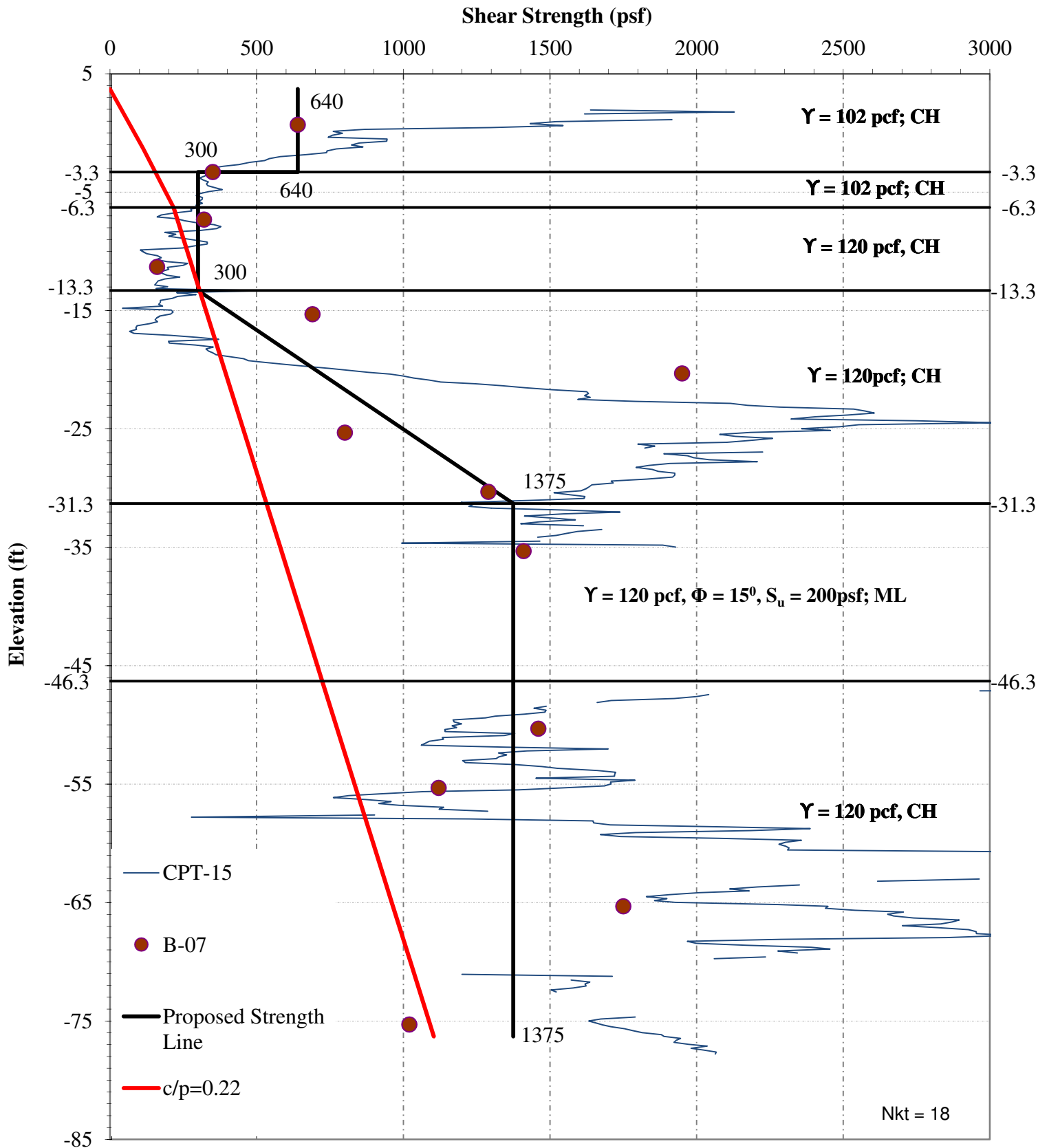
Date

Distribution:

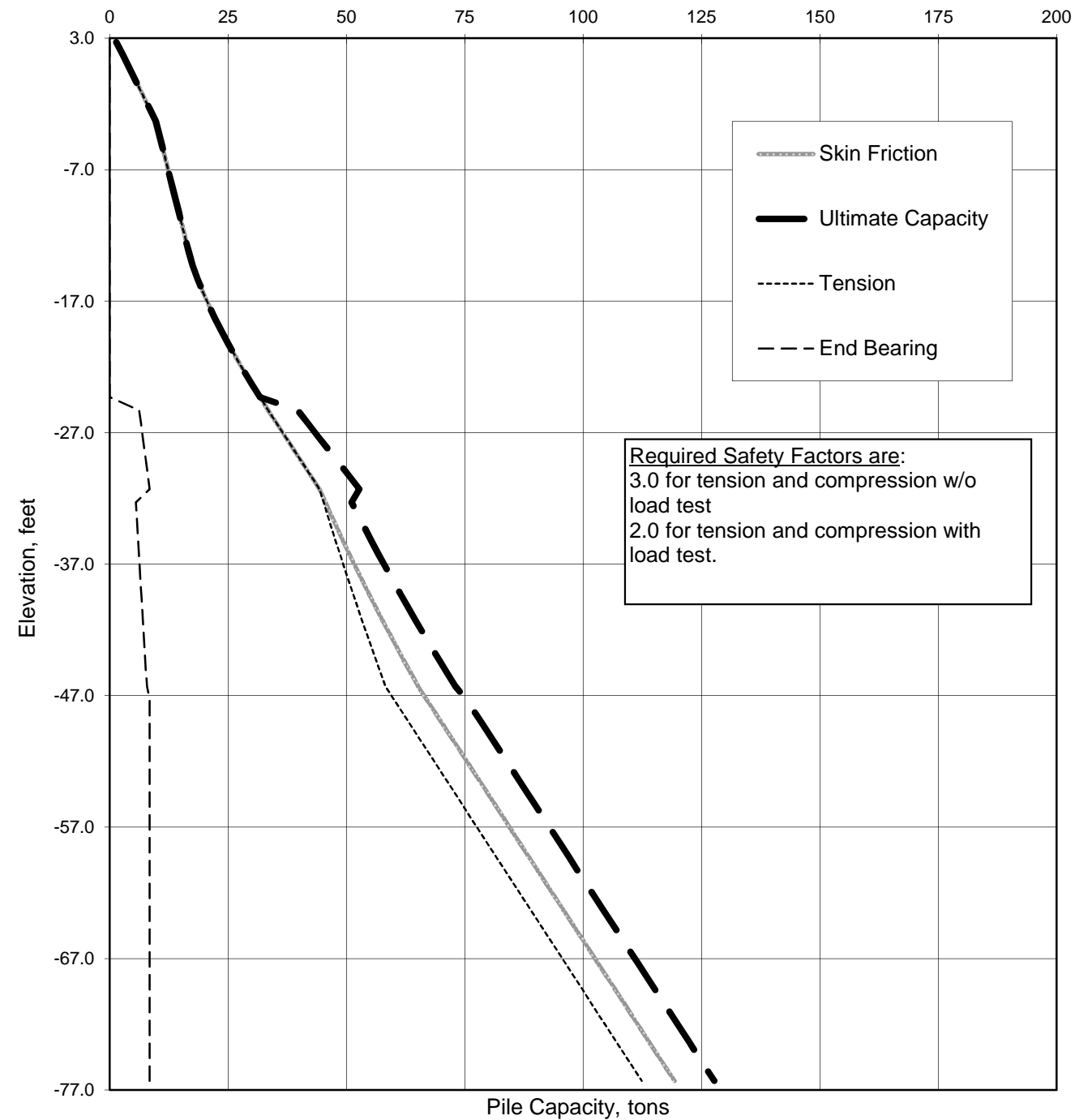
Project Central File – Quality File Folder

Other – Specify: Enter names here.

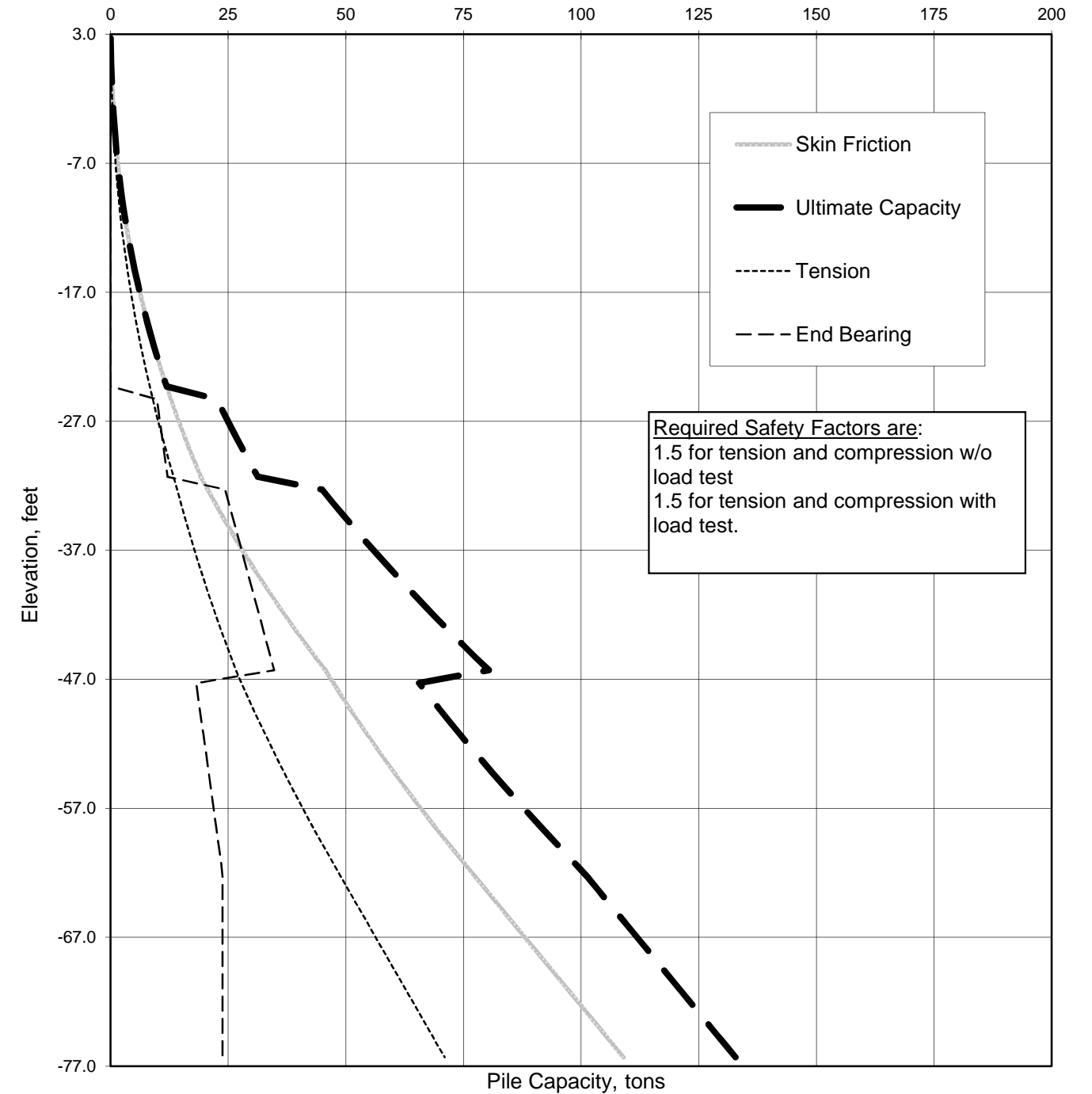
US61 Strength Plot - For Pile Capacities Calculation



Undrained Strength Case with PPCP - 14 inch

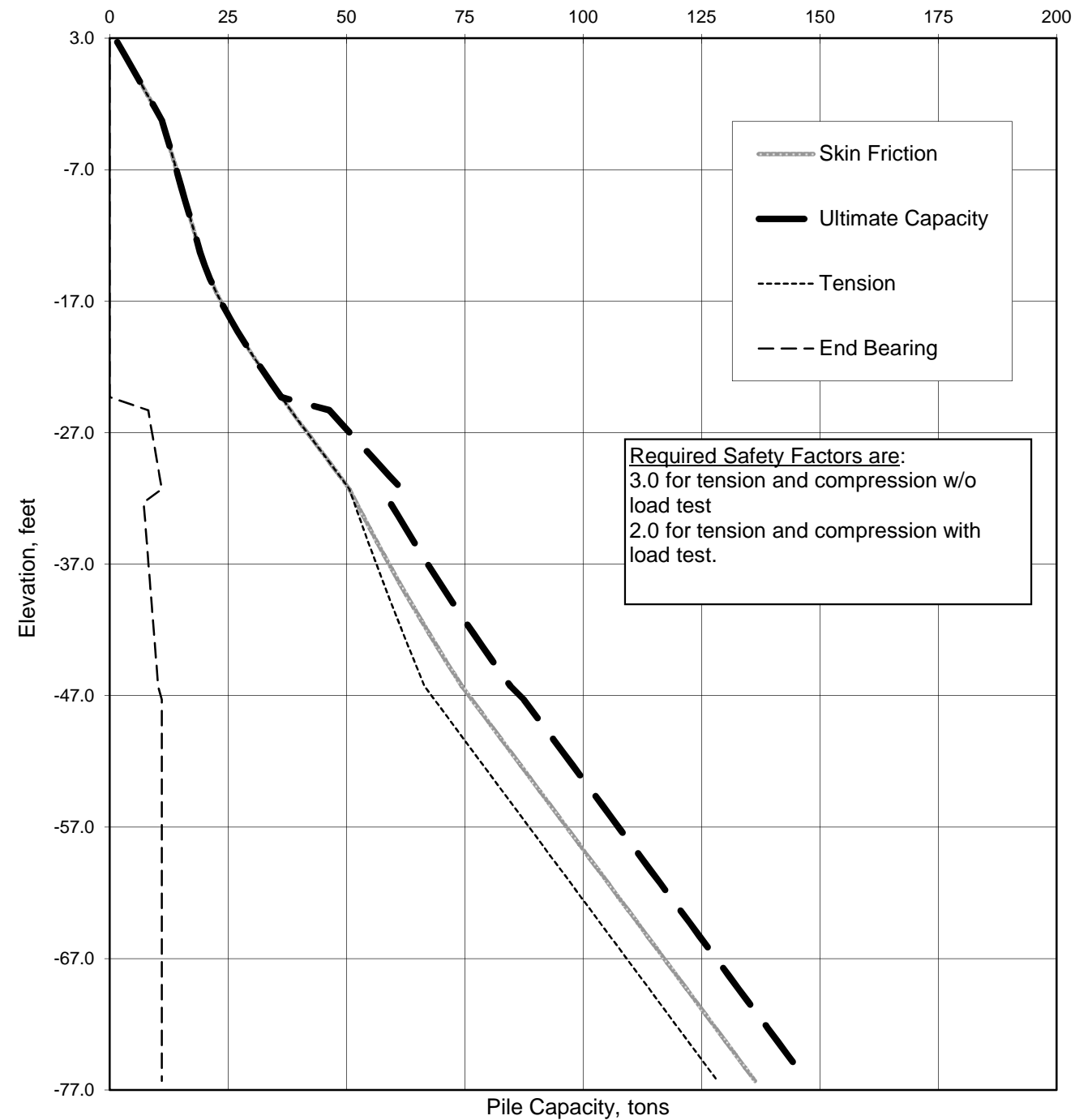


Drained Strength Case with PPCP - 14 inch

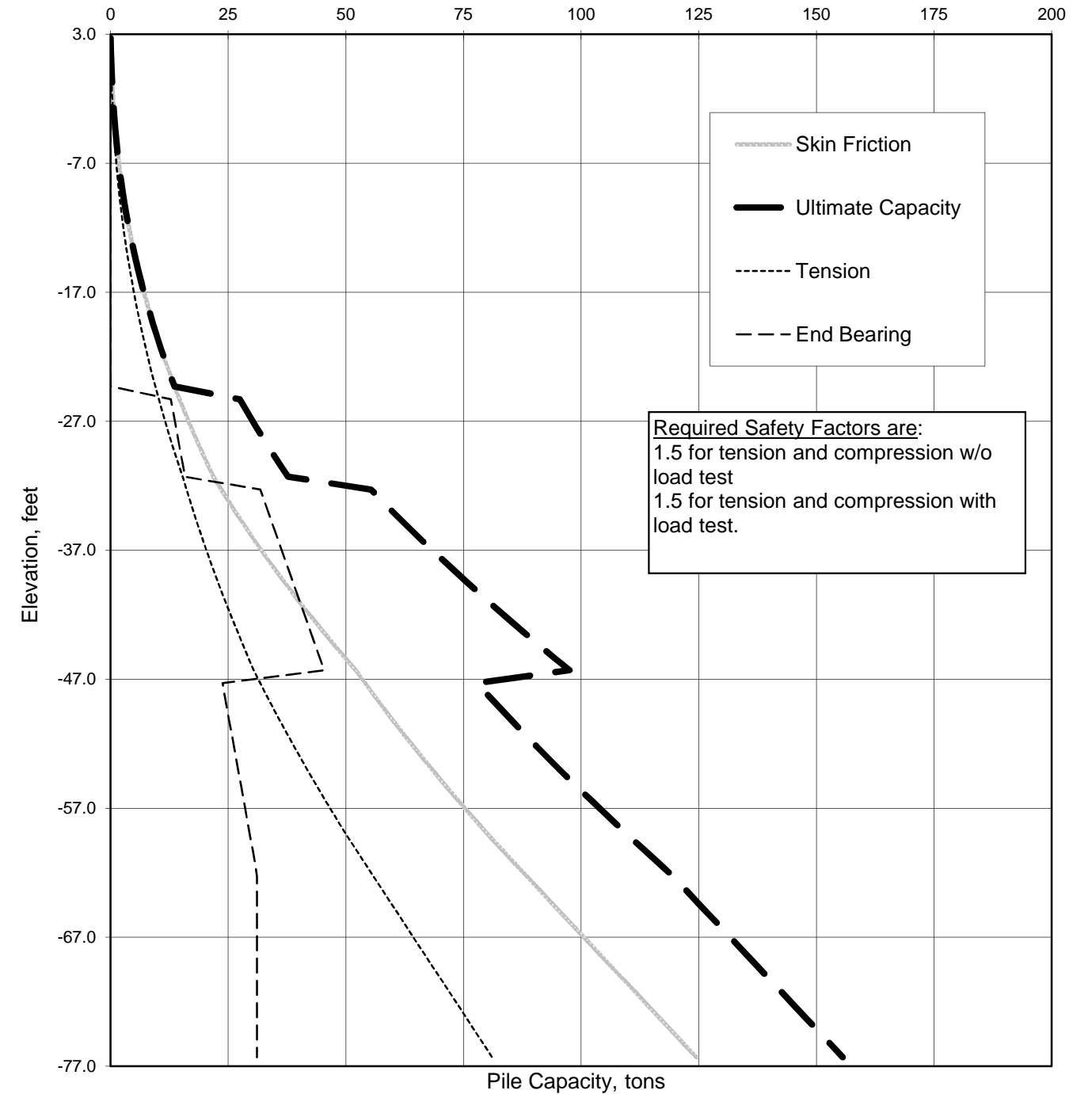


- Notes:
1. Pile capacity curves represent axial resistance for a single pile and do not consider group effects.
 2. Curves indicate Ultimate Capacity; the appropriate safety factors should be applied to arrive at the Allowable Capacity

Undrained Strength Case with PPCP - 16 inch

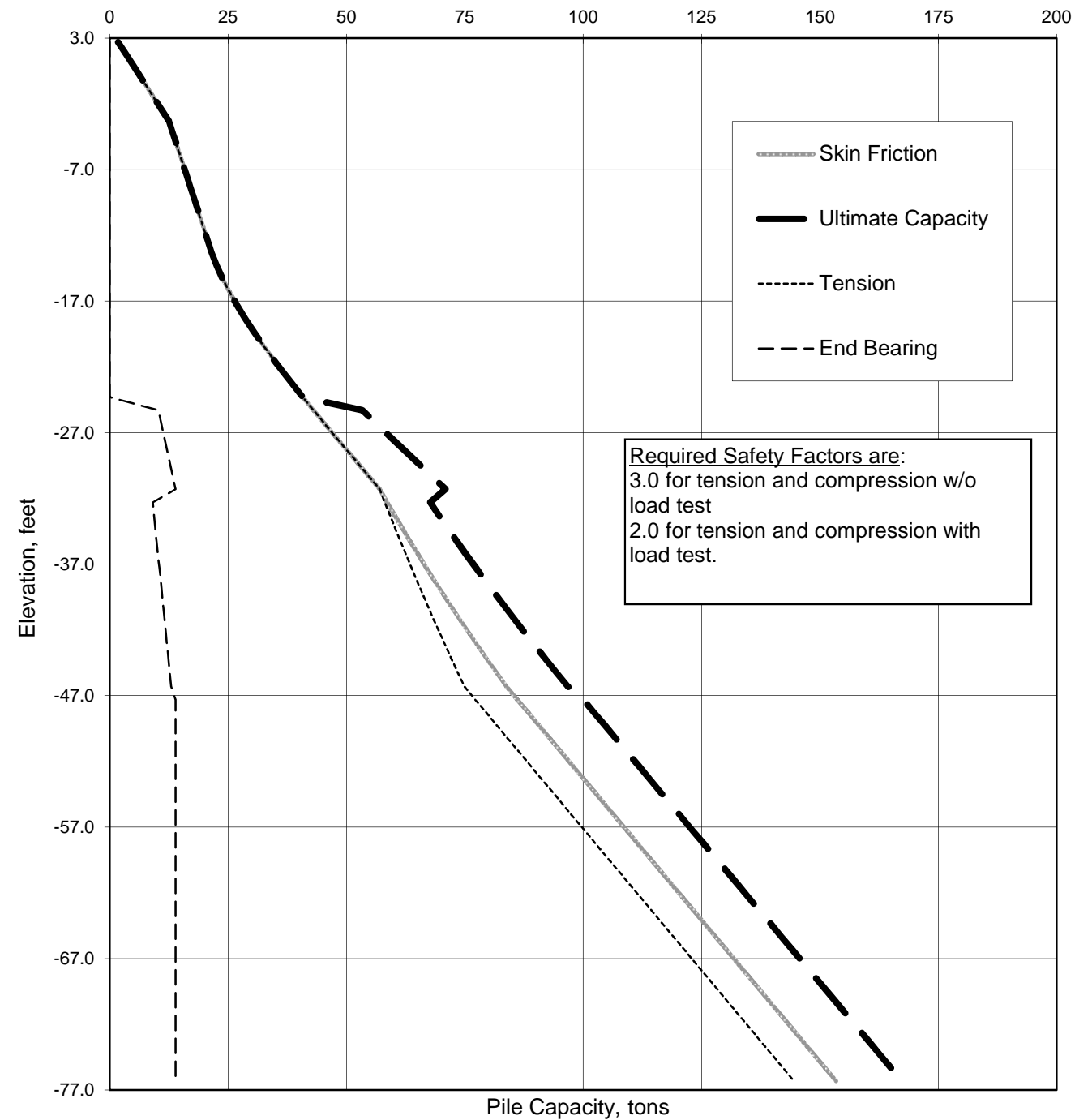


Drained Strength Case with PPCP - 16 inch

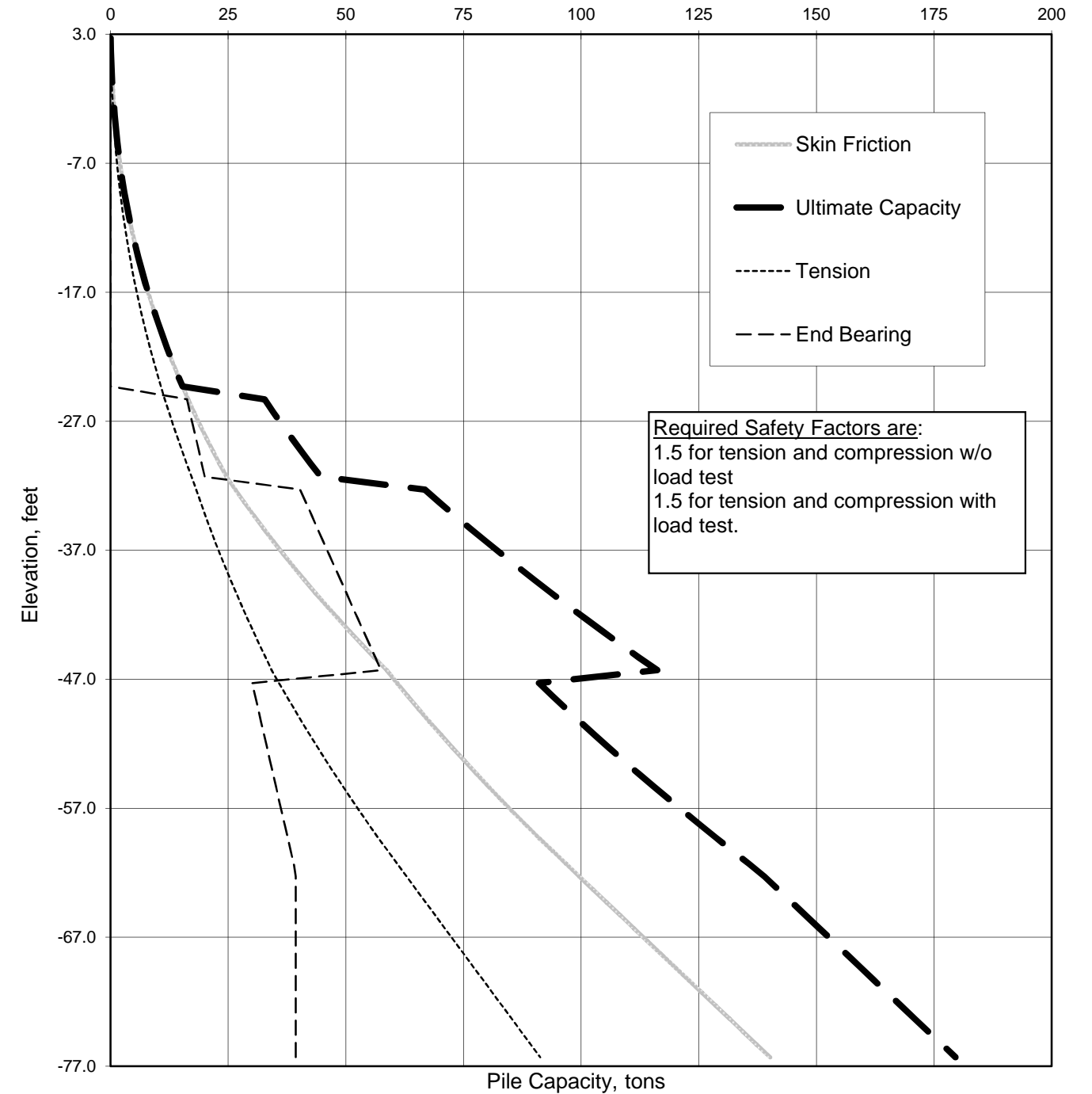


- Notes:
1. Pile capacity curves represent axial resistance for a single pile and do not consider group effects.
 2. Curves indicate Ultimate Capacity; the appropriate safety factors should be applied to arrive at the Allowable Capacity

Undrained Strength Case with PPCP - 18 inch

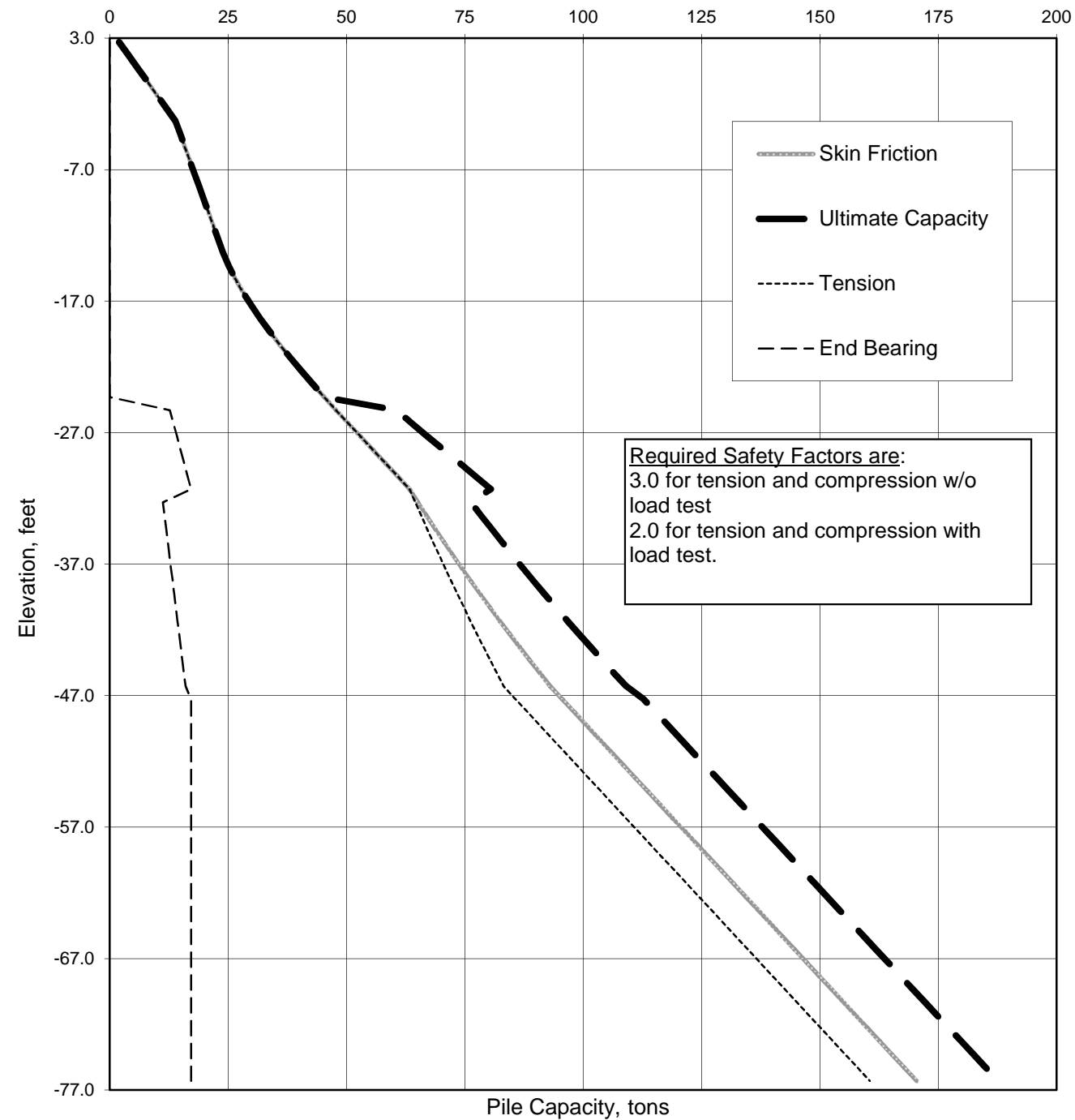


Drained Strength Case with PPCP - 18 inch

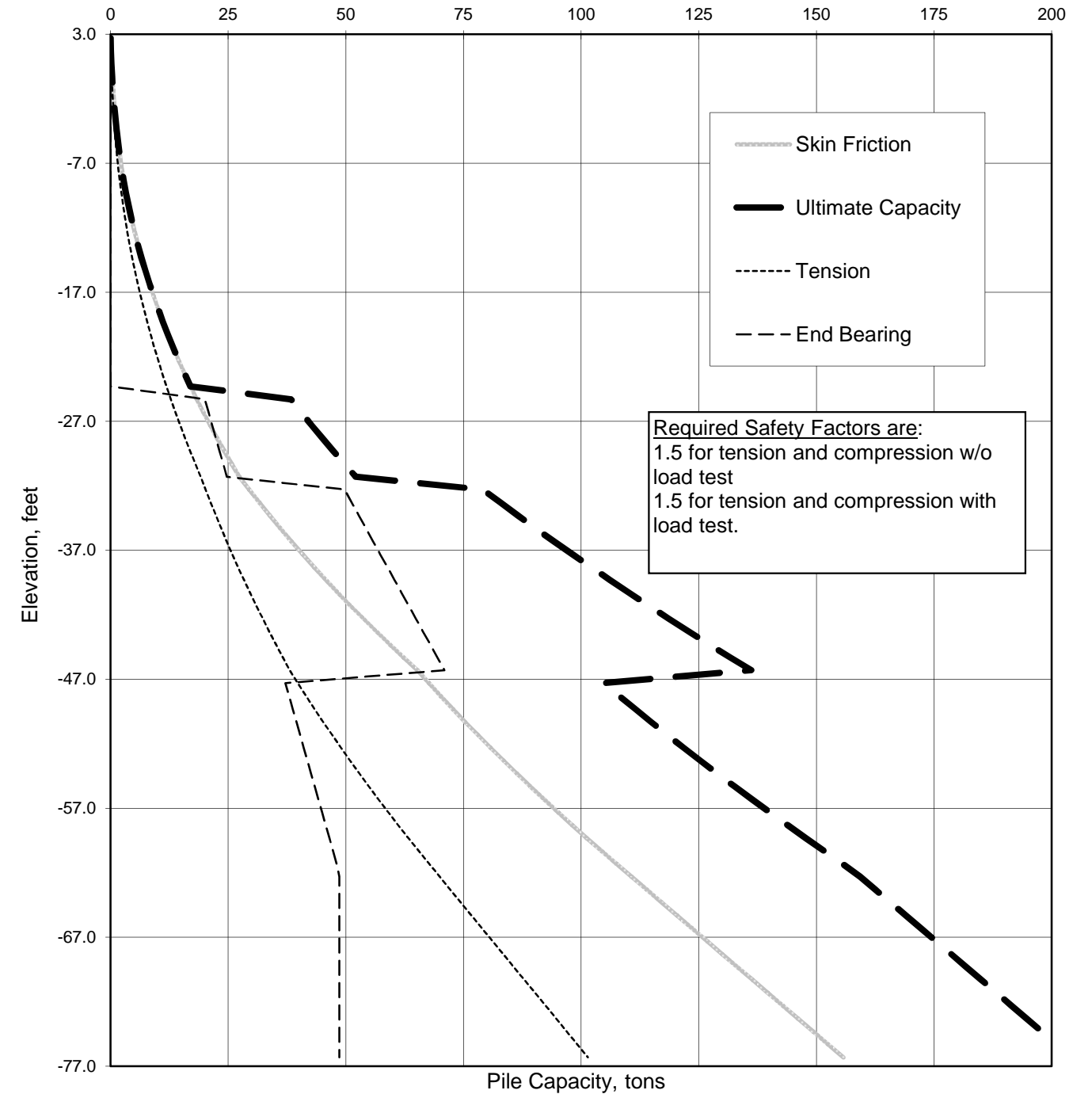


- Notes:
1. Pile capacity curves represent axial resistance for a single pile and do not consider group effects.
 2. Curves indicate Ultimate Capacity; the appropriate safety factors should be applied to arrive at the Allowable Capacity

Undrained Strength Case with PPCP - 20 inch

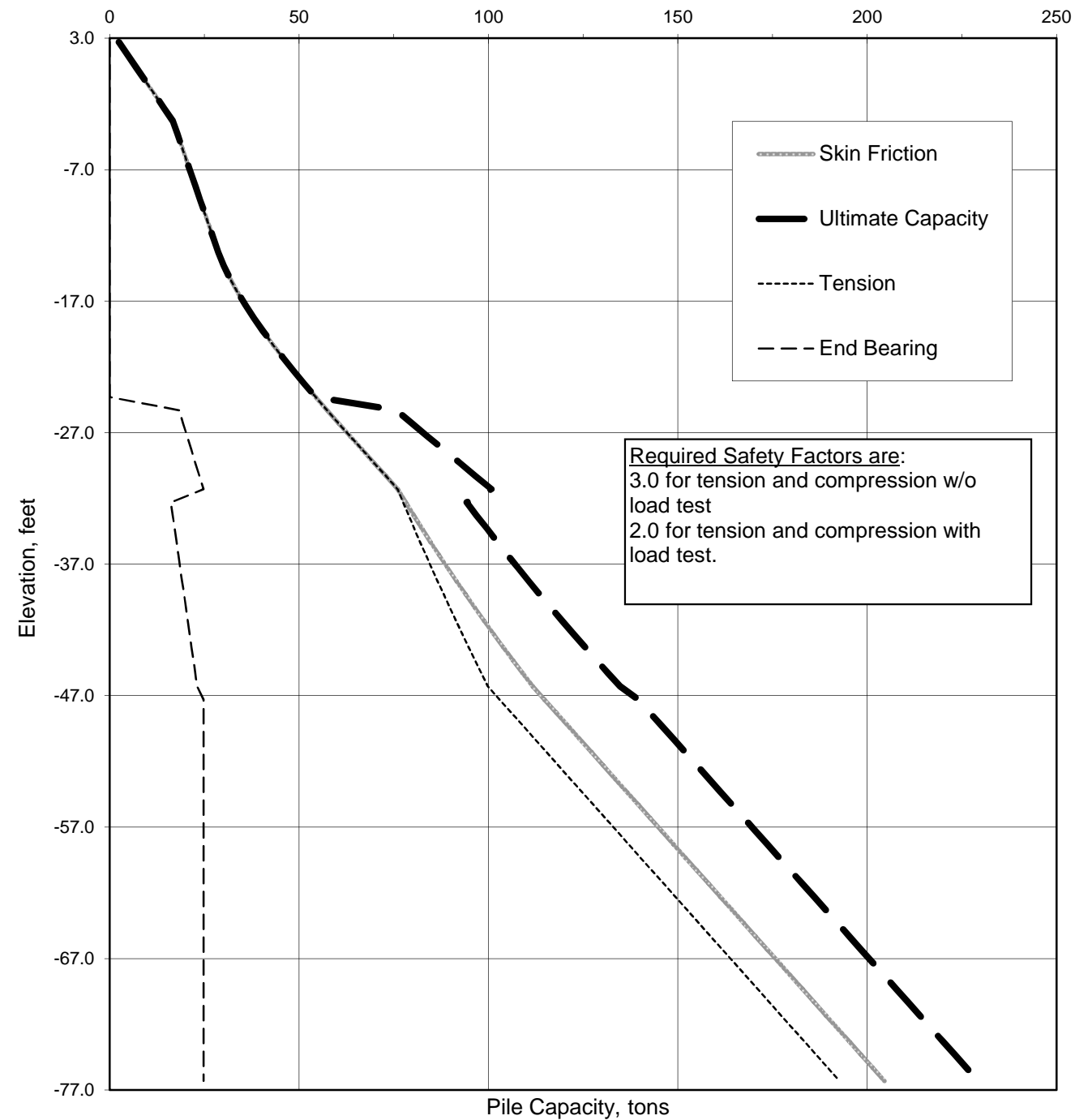


Drained Strength Case with PPCP - 20 inch

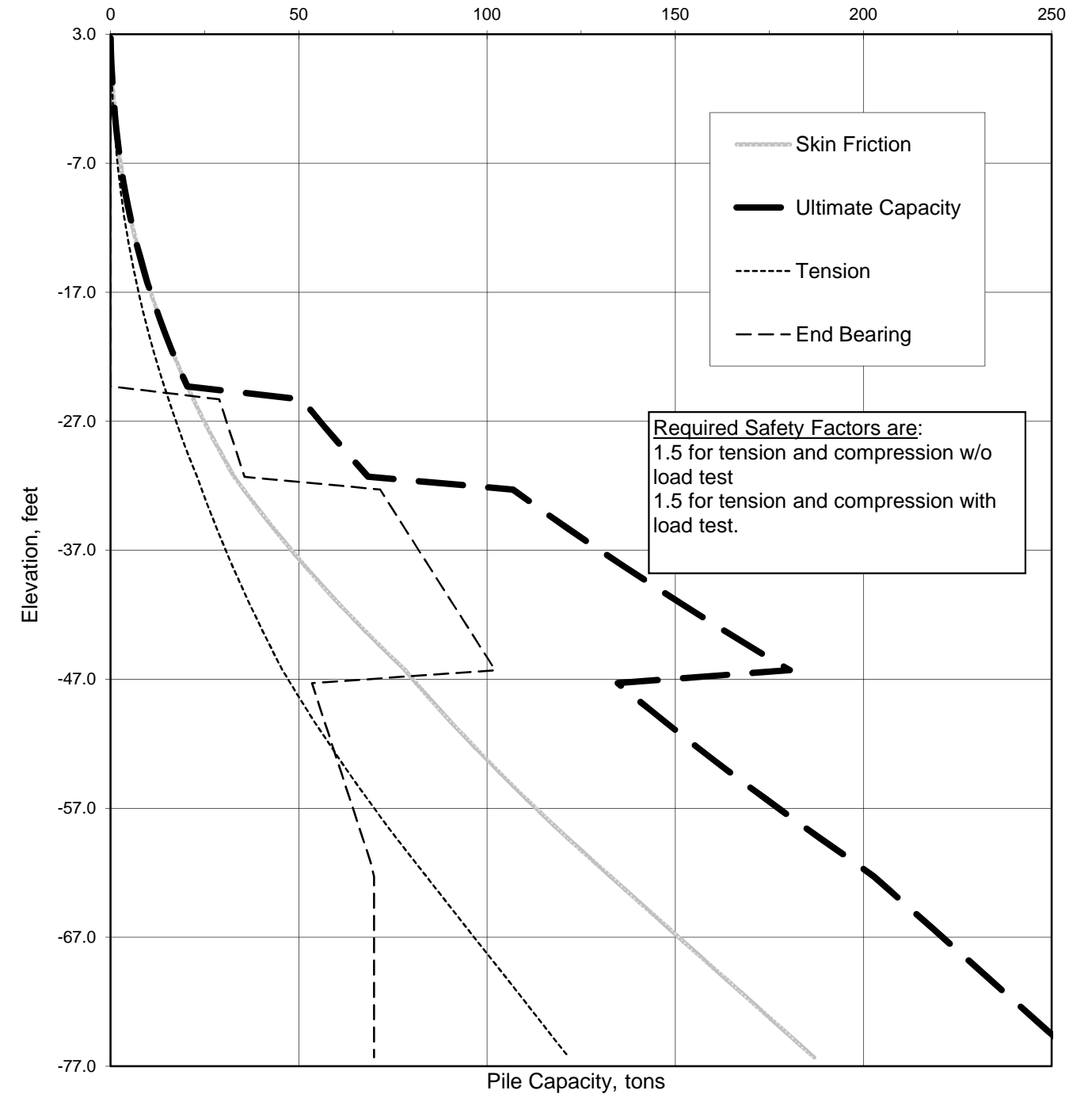


- Notes:
1. Pile capacity curves represent axial resistance for a single pile and do not consider group effects.
 2. Curves indicate Ultimate Capacity; the appropriate safety factors should be applied to arrive at the Allowable Capacity

Undrained Strength Case with PPCP - 24 inch



Drained Strength Case with PPCP - 24 inch



- Notes:
1. Pile capacity curves represent axial resistance for a single pile and do not consider group effects.
 2. Curves indicate Ultimate Capacity; the appropriate safety factors should be applied to arrive at the Allowable Capacity