

July 16, 1997

MEMORANDUM

TO: SDO Staff, District Structures Design Engineers  
COPY: Jerry Potter  
FROM: Bill Domico, Structures Design Engineer  
SUBJECT: Steel Sheet Pile Design

The following has been developed to handle the hot rolled vs cold rolled sheet piling issue.. You should implement these requirements immediately.

**Steel Sheet Piling**

The designer shall design and show on the plans the required sheet pile properties for both cold rolled and hot rolled sections. Design of the cold rolled section shall be based on flexural section properties that are 85% of the full section values. Wall components such as caps and tie backs shall be detailed to work with both the hot rolled and cold rolled sections.

*Commentary: Tests have shown that cold rolled sheet pile sections fail in bending at about 85% of their full section capacity while hot rolled sections develop full capacity.*

*There is also some question on the availability of hot rolled sheet piles so by showing the required properties for both types the contractor can furnish whatever is available.*