PILE NOTES

1. The maximum factored pile load is XX kips (including XX kips allowed for

downdrag) at the Strength Limit State.

*~ Use the first note below if piles are designed to be driven to bedrock; use*

*the second note if piles are designed to be end bearing in soil ~*

2. Piles shall be driven to the required resistance on or within bedrock in

accordance with Standard Specification Section 501.

2. Piles shall be driven to a tip elevation of XX or deeper in accordance with

Standard Specification Section 501.

3. Estimate of piles required:

Abutment No. 1: XX - HP XX x XX @ XX feet

Abutment No. 2: XX - XX” (diameter symbol) x XX” @ XX feet

Pier No. 1: XX - HP XX x XX @ XX feet

Pier No. 2: XX - XX” (diameter symbol) x XX” @ XX feet

The order lengths of the piles shall include an additional 5 feet of length for

each test pile to accommodate dynamic pile testing equipment.

4. H-pile material shall be ASTM A572, Grade 50.

5. Pipe pile material shall be ASTM A252, Grade 3.

6. H-pile splices shall be in accordance with Standard Detail 501(03).

7. Pipe pile splices shall be in accordance with Standard Details 501(01) and

501(02).

8. All piles shall be equipped with a pile tip in accordance with Standard

Specifications Subsections 501.048, Prefabricated Pile Tips and 711.10 H-Beam

Piles, Spliced and Tips (or 711.01 Steel Pipe Piles, Splices and Tips).

9. Piles marked with an arrow shall be battered X inches/foot in the direction

of the arrow.

*~ The following note is to be used for integral abutments with steel stringers. ~*

10. Piles shall not be out of position shown by more than 2 inches in any

direction.

*~ The following two notes are used for pile-supported foundations. The*

*Geotechnical Designer will make a recommendation for their use or exclusion. The*

*Geotechnical Designer will determine the number of dynamic tests per*

*substructure and the number of restrike tests, if needed. For larger pile*

*foundations, there may be multiple test piles per foundation and the locations*

*of the test piles may be shown on the plans ~*

11. The Contractor shall perform and submit a wave equation analysis for review

and acceptance by the Resident. The maximum allowable driving stress is 0.90

times Fy. The submittal analyses shall include the proposed stopping criteria

based on the wave equation analysis and the proposed driving system.

*~ Use the following note as specified in the Geotechnical Report ~*

12. The Contractor shall perform XX dynamic load test(s) with 24-hour (minimum)

restrike tests to confirm the nominal resistance of the piles. The required

nominal resistance for the pile is the factored axial pile load divided by a

resistance factor of 0.65 per LRFD Specifications. The dynamic test shall be

performed on the first production pile driven at each abutment (or pier).