**TABLE A**

**DESIGNER NOTES**

The wing type A1 should be used when possible in lieu of wings parallel to the roadway. Do not use for this type of wing when the water elevation is above the bottom of the abutment. The water elevation is above the bottom of the abutment. The wing type A1 should be used when possible in lieu of wings parallel to the roadway.

*Note: This diagram shows the unstable clays which are sometimes encountered in northwest Wisconsin. In certain cases, the wing type A1 should be used in lieu of wings parallel to the roadway.*

When timber railing is used as per standard 30.24, every 6'-0" the construction joint shall be used. The first construction joint shall be used in lieu of the second construction joint when the timber end posts are in place.

All wing bars shall be epoxy coated.

**LRFD DESIGN LOADS (WINGS)**

**WEIGHT OF SOIL**

- Exposure Class 1: 2.25
- Exposure Class 2: 1.75
- Exposure Class 3: 1.50
- Exposure Class 4: 1.25

**LOAD FACTORS**

- Live Load = 1.0
- 2'-0" Surcharge = 1.0
- 2'-0" Construction = 1.0

**IN PLACE**

**ABOVE CONSTRUCTION JOINT**

- After the timber end posts are in place. The wing concrete shall be placed and the skew is > 0°, this construction joint shall be used.

**WING PILE REQUIRED**

- For wings over 16'-6" only

**WING LENGTH - 10'-0" MINIMUM**

**WING TRAVELING UP STATION**

**LOCATE NAME PLATE ON FIRST RIGHT WING TRAVELING UP STATION**

**NAME PLATE (ONLY FOR TYPE "W," WITH TIMBER RAIL AS INCIDENTAL TO BID ITEM)**

**SECTION A-A**

**SECTION B-B**

**SHOW ALL LONGITUDINAL BARS FOR CLARITY.**

**ALL WING BARS SHALL BE EPOXY COATED.**

**PLAN FOR TYPE A1 ABUTMENT**

See std. 12.02 for abutment body details.

**SECTION A-A**

**SECTION B-B**

See std. 12.02 for notes & details.

**DETAILS FOR WINGS PARALLEL TO A1 ABUTMENT CENTERLINE**

**WEIGHT OF SOIL**

- Exposure Class 1: 2.25
- Exposure Class 2: 1.75
- Exposure Class 3: 1.50
- Exposure Class 4: 1.25

**WEIGHT OF SOIL**

- 1'-0" Construction = 1.0
- 1'-0" Surcharge = 1.0
- 2'-0" Construction = 1.0

**LOAD FACTORS**

- Live Load = 1.0
- 2'-0" Surcharge = 1.0
- 2'-0" Construction = 1.0

**IN PLACE**

**ABOVE CONSTRUCTION JOINT**

- After the timber end posts are in place. The wing concrete shall be placed and the skew is > 0°, this construction joint shall be used.

**WING PILE REQUIRED**

- For wings over 16'-6" only

**WING LENGTH - 10'-0" MINIMUM**

**WING TRAVELING UP STATION**

**LOCATE NAME PLATE ON FIRST RIGHT WING TRAVELING UP STATION**

**NAME PLATE (ONLY FOR TYPE "W," WITH TIMBER RAIL AS INCIDENTAL TO BID ITEM)**

**SECTION A-A**

**SECTION B-B**

See std. 12.02 for notes & details.