SECTION A-A

![Diagram of rail details](image)

1. 2" x 8" RAIL, S4S, ATTACH TO POST WITH (2) 3/4" x 12" HEX LAGS WITH (1) 1/2" x 2 1/2" FASTEN SCREWS

2. ATTACH RAILPOST TO DECK WITH (2) 3/4" x 12" HEX LAGS WITH (1) 1/2" CARRIAGE WASHER EA.

3. 6" x 6" RAILPOST, S4S

4. 11 3/4" DEEP DECK PANEL

5. FOUND. SPACING MAX. 4" CLEAR OPENING

6. 6" x 6" RAIL, S4S

7. 2" x 8" RAIL, S4S

8. 2" x 2" PICKET, S4S

9. COPPER POST CAP (SOLD BY OTHERS)

10. 1 1/2" FUTURE BITUMINOUS OVERLAY.

DO NOT SCALE DRAWINGS

WR: Wheeler, LLC

9333 James Ave S
Bloomington, MN 55421

DATE: 12/30/08

TRACKING NO. 718330N

ORDER NO. 524-1210

SHEET NO. 3 OF 4
DESIGN CRITERIA:

1. LIVE LOAD: BRIDGE IS DESIGNED FOR AASHTO HS-20.
2. WIND LOADING: WIND LOADING SHALL BE TAKEN AS 35 mph AS 6" ENCLOSED.
3. SEISMIC ISSUES: ASSUME AASHTO SPC A FOR SEISMIC CONSIDERATION.
4. NUMBER OF HELICAL PIERS PER CAP IS BASED ON 35,000 lb WORKING CAPACITY PER PIER.

SUPERSTRUCTURE REACTION TABLE *(in lbs.)*

<table>
<thead>
<tr>
<th>LOAD TYPE</th>
<th>LOAD (lbs)</th>
<th>LIQUID LOAD</th>
<th>TOTAL LOAD</th>
<th>WIND LOAD</th>
<th>WIND LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEAD</td>
<td>20,300</td>
<td>64,000</td>
<td>84,300</td>
<td>54,700</td>
<td>3,800</td>
</tr>
<tr>
<td>LIVE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,300</td>
</tr>
</tbody>
</table>

*BASED ON ONE SILL PER END OF BRIDGE, AND 2 HELICAL PIERS PER SILL.