



March 10, 2023

Sparrows Group
Matt Barcelona
60143 Camp Villere Rd.
Slidell, La. 70460

RE: Stolthaven New Orleans LLC
2444 English Turn Rd.
Braithwaite, La. 70040
2 Ton Travel Crane Tank Farm

Dear Mr. Barcelona

Structural inspection and evaluation of existing pipe rack to support new monorail crane system:

Lateral loads on the pipe rack will be caused by acceleration and deceleration and the impacting of the bridge trucks to the pipe rack structure. These lateral crane loads are oriented perpendicular to the crane runway and are applied at the top of the rails. The existing pipe rack in its original configuration is not capable of resisting these loads. The increased loads caused by the addition of the monorail and structural modifications to the pipe rack were reviewed for all four columns and only one column will see the worst case loading. This is the southern western most column. Compression load on this column is well within the capacity of the W12 x 79. The two pile cap of this column was checked and is within the capacity of the existing pile cap.

Proposed modification to structure:

I am proposing diagonal bracing at the top, side and ends of the structure. Diagonal bracing to the tank pad and reinforcing of two of the columns will also be required to resist these loads.

Another method of supporting the monorail is also included in the review.

Support information:

Estimated allowable single pile load capacities auger cast piles Stolthaven New Orleans from Eustis Engineering soil report dated 9 February 2023 using a safety factor 3 was 11 tons, The piles used in the pile cap were 40 ft class B timber so this was reduced by 10 % to 10 tons.

Kl/r for the column was based on an unsupported length of 13 ft

See the attachments

