



November 11, 2021

Mr. Albert Sung, PE
City of Las Vegas
333 N. Rancho Drive
Las Vegas, Nevada 89106

**Re: MountainView Hospital – Tower Expansion
Drainage Letter
Las Vegas, Nevada**

Dear Mr. Sung:

The proposed project includes a vertical tower expansion and powerhouse addition to the existing MountainView Hospital in Las Vegas, Nevada (3100 North Tenaya Way, Las Vegas, NV 89128). The original drainage study for the referenced site was approved on October 22, 1994, and prepared by G.C. Wallace, Inc.

The approved drainage study assumed the site was fully developed (a curve number (CN) of 93 was used for commercially developed sites). Due to this, in conjunction with the fact that the approved drainage patterns will remain the same, the runoff from the site will remain the same and the proposed improvements will not have any effect on these calculations.

Although this expansion is primarily vertical, one area that will impact the site plan is the powerhouse addition. The proposed addition extends into an existing detention pond, reducing the volume by 1,385 cubic feet. In order to compensate for this 3,358 cubic feet of storage has been added as to not affect the ponds function and performance. See Sheet C6.0 of the plans as well as Table 1 and 2 for more information.

Table 1 – Pond Volume Filled by Powerhouse Addition

Elevation	Area (SF)	Volume (CF)	Total Volume (CF)
23.92			
23.00	920.38	423.37	423.37
22.00	834.75	877.57	1300.94
21.80	0.00	83.47	1384.41

Table 2 – Pond Volume Added

Elevation	Area (SF)	Volume (CF)	Total Volume (CF)
23.92			
23.00	2296.16	1056.23	1056.23
22.00	1923.10	2109.63	3165.86
21.80	0.00	192.31	3358.17

Since the approved drainage analysis has not been altered in terms of run off or drainage patterns, this submit constitutes an update to the approved drainage study to address the proposed construction. Please refer to Sheets C5.0 and C6.0 (included with this submittal) for more details.

Should you have any questions or concerns, please feel free to call or e-mail me. My phone number is (615) 622-7200, and my e-mail address is oberryhill@catalyst-dg.com.

Best Regards,

Catalyst Design Group

A handwritten signature in black ink that reads "Olivia Berryhill". The signature is written in a cursive, flowing style.

Olivia Berryhill, PE
Project Manager