

CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		August 24, 2023
TO: Land Development Services Department of Building & Safety		FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	Drainage Study for:	COPIES TO:
Garside Middle School Replacement		Lochsa Engineering
Cross Streets:	NWQ of Torrey Pines Drive & Alta Drive	School Board of Trustees - CCSD
File Number:	F:\Depot\DSMemos\DS5688B.doc	Bart Anderson, P.E., DevCo
Parcel Number:	138-35-101-002	
Zoning Action:	23-0301-SDR1; 23-0301-VAR1 & 23-0301-VAR2	
FEMA Flood Zone	YES NO X	
Proposed Storm Drain	YES X NO	

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	7/6/2023	8/3/2023	Not Approved	\$400.00	5343721: \$400
2 nd Submittal	8/14/2023	8/24/2023	See Comments Below	\$400.00	5398218: \$400
			TOTAL FEES (LDDRS):	\$800.00	----

REMARKS:

The Drainage Study for the subject project has been reviewed and:

	is approved subject to conformance to all City standards and the following conditions:
X	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
	is conditionally approved subject to Clark County Public Works Department concurrence.

- Second Request:** Provide a copy of the zoning/planning conditions associated with this site (**23-0301-SDR1; 23-0301-VAR1 & 23-0301-VAR2**) with the next submittal to verify compliance with conditions. *Flood Control* will not issue conditional approval of the drainage study without the associated zoning/planning conditions (issued by the *City Council*). Any associated conditions of approval that revise the site drainage parameters will require that the drainage study be revised and resubmitted.
- Previous Comment #8: Sheet C1.30.1:** *The 100-year flow depth in Hyde Avenue is 0.83' and is erosive. The northwest corner of the site appears will have street flow overspill onsite. Provide a flood wall or raise the site to protect the site from inundation. Provide erosion protection materials in the landscaping area in the next submittal.*

The response was an "A"-curb is provided to provide for the flood protection with the TC at 1.1' above the flow line elevations along *Hyde Avenue*. However, 1.1' is not high enough! The TC of the "A"-curb must be at 2x0.83' = 1.66' above the street flow line elevations. Review and revise accordingly.

3. **Previous Comment #9: Sheet C1.30.1 & Sheet C1.30.2:** *The proposed finished floor elevation of BLDG C is either not meeting the regional flood criteria or even lower than the adjacent Newcomer Street.*

For example, the street grade at the southern end of the building (high side) is at 49.57TC, since the 100-year flow depth in Newcomer is 0.67', therefore the required FF = 49.57'-0.5'+2x0.67' = 50.41' which is higher than the proposed 49.20'.

The response was to use a pro-rated flow in *Newcomer Street* so as to reduce the 100-year flow depth and adding an "A"-curb for flood protection.

However, to justify this methodology, both **DR1** and **DR2** must be expanded to include the offsite basin west of *Newcomer Street* and clearly label the flows coming out from *Singingwood Avenue*. Review and revise accordingly.

***** The City of Las Vegas Flood Control is standardizing the file naming of drainage studies and plans during the digitizing process. When saving the project files in the CD or thumb drive, please follow the system below:**

If drainage study only contains one combined file, use the following naming convention in Document Title:

1st Submittal DS and Plans (for first and original submittal);

2nd Submittal DS and Plans (for second submittal (addendum #1)) etc.

If drainage study contains multiple files, use the following naming convention in Document Title:

1st Submittal DS (for the report of the drainage study)

1st Submittal Plan 1 (could be the drainage condition maps)

1st Submittal Plan 2 (could be the improvement plans) etc.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Update and accepted by the *City of Las Vegas Flood Control Section*. Additionally, final approval of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

END OF REMARKS
HDR/AYS

T/R/S: T20S/R60E/35
AREA L-35