

<b>CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM</b>		<b>DATE:</b> October 3, 2022
<b>TO:</b> Land Development Services Department of Building & Safety		<b>FROM:</b> Caitlyn Alcantara, P.E. CA Flood Control Engineer Associate Department of Public Works
<b>SUBJECT:</b>	Drainage Study for:	<b>COPIES TO:</b>
	<b>Circle K at Sahara &amp; Maryland</b>	Civil 360 Planning & Engineering
<b>Cross Streets:</b>	Maryland Pkwy. and Sahara Ave.	FEM LLC
<b>File Number:</b>	F:\Depot\DSMemos\DS05610A.doc	Bart Anderson, P.E., DevCo
<b>Parcel Number:</b>	162-03-812-003	
<b>Zoning Action:</b>		
<b>FEMA Flood Zone</b>	YES	NO <b>X</b>
<b>Proposed Storm Drain</b>	YES	NO <b>X</b>

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 <sup>st</sup> Submittal	9/19/22	10/3/22	See Comments Below	\$400	4958343: \$400
<b>TOTAL FEES (LDDRS):</b>				<b>\$400</b>	----

**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:
<b>X</b>	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.

The following are comments pertaining to the subject site specific drainage study and grading plans:

1. Provide a copy of the zoning/planning conditions associated with this site 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.
2. The site is adjacent to or crosses an existing or proposed Clark County Regional Flood Control District (CCRFCD) master planned facility. Therefore, CCRFCD concurrence is required prior to final approval of the drainage study.
3. **Figure 3: Existing Condition Map:** Provide full size exhibits, 24"x36", that include flow arrows for EX1, Q<sub>10</sub>/Q<sub>100</sub> for OF1 and EX1, and tables with results from hydraulic analysis.
4. **Figure 4: Interim Condition Map:** Provide full size exhibits, 24"x36", that include flow arrows for PR1, Q<sub>10</sub>/Q<sub>100</sub> for OF1 and PR1, and tables with results from hydraulic analysis.
5. The proposed onsite berm must protect the site from twice the depth of flow within Sahara Avenue to protect the finished floor. Note this means the entirety of the southern boundary must contain the water in Sahara Avenue.
6. The flow in Sahara Avenue is above the back of sidewalk and erosive. Provide erosion protection for the landscape area in the form of a stem wall, riprap, or approved alternate as required in the

Regional Flood Control District Manual in section 904.3. Revise the grading plan and sections accordingly.

7. The following finish floors do not meet the Regional Flood Control District minimum criteria of twice the Q100 depth of flow up to 18-inches above the water surface (CCRFCD Manual Section 304.4.E.1) or 6-inch minimum above the highest adjacent top of curb (CCRFCD Manual Section 1602 304.4.E.1). The following finish floors should be revised or alternate flood protection provided.

FF shown	Adjacent TC	Min FF
2004.69	2006.13	2007.63

8. **Sheet C8.01, Section H:** Show the proposed 3-course solid grouting on Section H, 8.01 on the western wall of the project site.
9. Revise the note for all sections showing solid grouting for flood control to indicate "8-inch minimum solid grouted CMU block 3 courses above finish grade with all joints mortared," where 3-courses is 18-inches or twice the depth above the calculated water surface elevation.
10. Show the current offsite grading on the grading plans and not the future condition. The future improvements shown do not match the current site.

**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.

**END OF REMARKS**  
HDR/CAA

T/R/S: T21S/R61E/S03  
AREA R-03