

<b>CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM</b>		<b>DATE:</b> July 11, 2023
<b>TO:</b> Land Development Services Department of Building & Safety		<b>FROM:</b> Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
<b>SUBJECT:</b>	Drainage Study for: <b>Almond Grove – Update #1</b>	<b>COPIES TO:</b> L.R. Nelson Consulting Engineers
<b>Cross Streets:</b>	NWC of Sahara Avenue & Maryland Parkway	F E M LLC
<b>File Number:</b>	F:\Depot\DSMemos\DS5432D.doc	Bart Anderson, P.E., DevCo
<b>Parcel Number:</b>	162-03-812-002 & 162-03-812-003	CCRFCD
<b>Zoning Action:</b>	23-0036-SDR1; 23-0185-EOT1 & 23-0270-SDR1	CCPW
<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	3/25/2021	4/7/2021	Not Approved	\$400.00	4214664: \$400
2 <sup>nd</sup> Submittal	5/13/2021	5/25/2021	Conditional Approval	\$400.00	4288964: \$400
CCPW & CCRFCD	8/12/2021	8/18/2021	Concurrence Recv'd	N/C	N/C
3 <sup>rd</sup> Submittal	6/13/2023	7/10/2023	See Comments Below	\$100.00	5313118: \$100
<b>TOTAL FEES (LDDRS):</b>				<b>\$900.00</b>	<b>----</b>

**REMARKS:**

**3<sup>rd</sup> Submittal: Update #1 for site layout revision**

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.

1. Provide a copy of the zoning/planning conditions associated with this site (**23-0036-SDR1; 23-0185-EOT1 & 23-0270-SDR1**) 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. **Sheet C2.03:** The hump provided in the driveway entrance at *Sahara Avenue* does not meet the freeboard requirement. The anticipated 100-year flow depth in *Sahara* is 1.14'. The hump must provide a minimum of 6" freeboard, ie, 6.40 FL (in *Sahara*) + 1.14' (flow depth) + 0.5' (freeboard) = 8.04 FL, whereas the TC at the hump shall be 8.54TC minimum. The proposed 7.7TC/HP is not adequate. Revise the high point on the east side of the driveway also accordingly.

3. **Sheet C2.04:** The plan shows an existing drop inlet in *Sahara Avenue* within the vicinity of the proposed reconstruction of the sidewalk and curb & gutter. Clearly show with a note for what to be done with the existing drop inlet, ie, whether to replace with a new one of the same type or equivalent type or use and keep the existing one protect in place or etc.
4. **Sheet C6.01: Detail Sections H and I:** Provide erosion protection measures such as riprap in the proposed berm facing the street. Provide sizing calculation for the riprap.

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