

<b>CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM</b>			<b>DATE:</b>  October 6, 2022
<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>COPIES TO:</b>
	Summerlin West V27 - Park Drift Trail, Sunset Run Drive and Calico Bend Drive		Atkins
<b>Cross Streets:</b>	Lake Mead Boulevard & Sunset Run Drive		Howard Hughes Company, LLC
<b>File Number:</b>	F:\Depot\DSMemos\DS5608A.doc		Bart Anderson, P.E., DevCo
<b>Parcel Number:</b>	137-22-101-005, 137-21-501-001 & 137-22-301-005		CCRFCD
<b>Zoning Action:</b>			
<b>FEMA Flood Zone</b>	YES	NO <b>X</b>	
<b>Proposed Storm Drain</b>	YES <b>X</b>	NO	

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 <sup>st</sup> Submittal	9/13/2022	10/6/2022	See Comments Below	\$400.00	4949784: \$400
<b>TOTAL FEES (LDDRS):</b>				<b>\$400.00</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 project proposes to build a temporary berm/swale along *Calico Bend Drive*. Prior to final plan approval the developer must complete a maintenance and liability agreement for the interim drainage improvements (off-site berms or swales) and post a minimum maintenance bond of \$50,000 or 50-percent of the construction cost for the improvements, whichever is greater. The engineer must submit an estimate of the quantities for constructing the facility and an exhibit that adequately shows the location and limits of the drainage facility to *City of Las Vegas Flood Control* for approval. Once the drainage study is conditionally approved, the engineer should contact the City's Land Development Section (229-6371) to begin the agreement process.

In order for the maintenance bond to be released in the future, a drainage update / letter will be required to justify that the offsite berms / channels are no longer necessary and can be removed.

- 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.

Please note that effective March 15, 2019, the CCRFCD adopted new requirements for drainage study concurrence submittal. Follow the link below for specific guidance.

<http://gustfront.ccrfcd.org/LandDev/LandDev.aspx>

3. **Figure 3: Interim Conditions Hydrology:** Include the blue storm drain shown on the exhibit in the legend.
4. **Figure 4: Ultimate Conditions Hydrology:** The basin boundary for ST16 and ST17 are not fully enclosed.
5. **Figure 4: Ultimate Conditions Hydrology:** Label *Calico Bend Drive*.
6. **Figure 5: Hydraulic Workmap:** Curb opening length does not match Interim and Ultimate DI Calcs, SDDI# 13.
7. **Figure 5-Hydraulic Workmap:** Revise Interim and Ultimate Normal Depth Calculations, the values shown on the exhibit are shown to 2 decimal places, but the calculations provided are only for 1.
8. **Park Drift Trail:** Inlets are required every 600'. The distance between the pairs of drop inlets, SDDI #1 and SDDI #2 at Station 303+50 (approx.) and SDDI #3 and SDDI #4 at Station 318+80 (approx.) is over 1,500 feet. Provide at a minimum two drop inlets at approximately Station 310 in *Park Drift Trail* to meet the requirement.
9. **Park Drift Trail (Sheet 7/69 and Sheet 59/69):** The plan shows that there are existing riprap swales along the west side of *Park Drift Trail* for flood protection of the proposed roadways. Revise *Section A/59* and *Section B/59* to reflect the existing riprap swales in the next submittal.
10. **Sunset Run Drive:** Provide a nominal drop inlet at the south side of SDMH #8. Revise all pertinent sheets accordingly.
11. **Sunset Run Drive:** The grading plans show duplicate **SDDI#6** at Sta.13+85.88 and at Sta.27+17.21. Distinguish accordingly in the next submittal.
12. All storm drain inlets that are more than 10'-deep require a special structural detail and calculations. Submit structural design and calculations to *City Building & Safety Department* for review and approval prior to the final approval of the drainage study.
13. **SDMH #12** is deeper than 18' which exceeds the limit of standard drawing. Submit structural design and calculations to *City Building & Safety Department* for review and approval prior to the final approval of the drainage study.
14. All offsite interim flood control facilities such as but not limited to berms/ditches and temporary sump are privately owned and to be privately maintained by the *Howard Hughes Company*. Provide a note as such on the grading plans.

**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/AYS

T/R/S: T20S/R59E/22  
AREA K-22