

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM			DATE: November 9, 2022
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:
Village 27 Parcel M & E Drainage Improvement			The Howard Hughes Company
Cross Streets:	Lake Mead Blvd		GCW, Inc.
File Number:	F:\PW_Flood\1. Development Review\1. DS Memo\DS05586C.doc		Bart Anderson, P.E., DevCo
Parcel Number:	137-15-401-003, 137-21-501-001		
Zoning Action:			
FEMA Flood Zone	YES	NO	X
Proposed Storm Drain	YES	NO	X

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	06/28/2022	07/11/2022	Not Approved	\$400.00	4845731: \$400
2 nd Submittal	09/13/2022	10/03/2022	Not Approved	\$400.00	4950238: \$400
3 rd Submittal & Supplement	10/19/2022 & 11/7/2022	10/31/2022 & 11/9/2022	See Comment Below	\$400.00	5015093: \$400
TOTAL FEES (LDDRS):				\$1200.00	----

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.

- Please note that Final Approval of Improvement Plan will not be issued until the downstream debris basin is approved.
- The site 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>

When it's applicable, structural calculations of facilities must be approved by the City prior to submittal to the Clark County Regional Flood Control District for their review and concurrence.

***** The Conditional Approval of this Drainage Study is to allow the engineer/developer to submit the Improvement Plans to City Land Development Only**

***** Do not submit the Drainage Study to Clark County Regional Flood Control District (CCRFCD) prior to the Structural Design and Calculations being approved by the City Building & Safety Department**

3. The proposed CCRFCD Channel must be dedicated and recorded as Flood Control Right-of-Way prior to City of Las Vegas taking ownership and maintenance responsibility. Clearly identify the Flood Control Right-of-Way limits on the cross-sections and grading plan.
4. Add "Public Drainage easement to be privately maintained" to the 30-ft utility easement shown on sheet GD4 must be recorded with Parcel M development. Also, a connection to the proposed south access road along the channel must be provided with Parcel M development.
5. Provide complete HEC-RAS calculation, including input sheet for each sections.
6. Section D/DT1 doesn't reflect flood wall. Please revise accordingly.
7. Access Ramp 1 detail shown on sheet S4 doesn't match the grading plan. Revise detail to match the wall height in the grading plan. Also, clearly indicate/callout Access Ramp 1 on the grading plan/profile sheet.
8. Provide detail for the north access ramp and clearly indicate/callout access ramp on the grading plan/profile sheet.
9. Use the "Splash Guard" detail 12 shown on sheet S2 for north and south access ramps or provide explanation on using different splash guard detail on north and south access ramps.
10. Provide top of retaining wall, footing, and finish grade for the east end of north retaining wall at north access ramp.
11. Clearly show the limit of proposed improvement per this study. It appears that this study also constructs grouted riprap, cutoff wall, and 36-inch RCP.

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, conditional acceptance 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.

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
OSK

T/R/S: T20S/R59E/S15, 21
AREA K-15