

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM			DATE: December 2, 2024
TO: Land Development Services Department of Public Works			FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:		Drainage Study for:	COPIES TO:
		Nevada Energy Northwest Substation Expansion	Power Engineers, Inc.
Cross Streets:	SWC of Shaumber Ave. & Moccasin Blvd.		Nevada Energy
File Number:	F:\Depot\DSMemos\DS5819A.doc		Bart Anderson, P.E., DevCo
Parcel Number:	126-01-101-001 & 126-01-101-017		CCRFCD
Zoning Action:	24-0046-GPA1; 24-0046-ZON1 & 24-0046-SDR1		CCPW
FEMA Flood Zone	YES	NO	X
Proposed Storm Drain	YES	NO	X

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Transaction #
1 st Submittal	11/14/2024	11/27/2024	See Comments Below	\$400.00	6012152: \$400
TOTAL FEES (LDDRS):				\$400.00	----

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 Department of Development Services concurrence.

1. Provide a copy of the zoning/planning conditions associated with this site (**24-0046-GPA1; 24-0046-ZON1 & 24-0046-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.

The zoning/planning conditions dictate what offsite street improvements will be required and this shall be addressed in the next submittal.

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.

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. The site is also adjacent to the jurisdiction of Clark County to the north. The engineer must coordinate with *Clark County Public Works Department* (CCPW) and incorporate any concerns for boundary conditions along *Moccasin Road*. CCPW concurrence is required prior to final approval of the study.

4. **City of Las Vegas** requires a physical copy of the drainage study (as well as a digital copy, ie, CD or thumb drive) which includes paper printout of the study (use paper size of 8-1/2" x 11", not legal size) and the improvement plans (Improvement Plans and Drainage Maps must be in the size of 24"x36"). However, the last submittal did not have any improvement plans (paper and digital) at all!

Provide full size improvement plans in the next submittal.

5. Since no improvement plans had been submitted with the last submittal, the reviewer has nothing to base on with comments on the construction perspective. Provide improvement plans in the next submittal and review comments will be issued then.
6. A technical drainage study must include a filled-in **Standard Form 1** and **Standard Form 2** which contains the developer and engineer as well as the project information. The form can be downloaded using the link below:

<https://files.lasvegasnevada.gov/public-works/Minimum-Drainage-Study-Checklist.pdf>

7. **EXB 1 (Existing Drainage Basin Overview)** and **EXB 3 (Proposed Drainage Basin Overview)**: At the western end of the offsite basins (E-1, E-2, E-3 and F-1), it is not understood why an extended triangular area until a tip point is not considered as portion of the offsite basins even though the area is relatively small? Address and resolve in the next submittal.
8. Per **Figure E-2 (Existing Drainage Conditions)** of the "*City of Las Vegas Northwest Neighborhood Flood Control Master Plan Phase 2 (Vol. II September 1999)*", the anticipated 100-year flow in *Moccasin Road* without any regional flood control facilities, ie, on the surface, is about 488CFS. Revise all pertinent Drainage Maps (existing, interim and future), hydrologic and hydraulic calculations and summary tables etc. accordingly.

Provide 10-year/100-year flow information such as Q_{10}/Q_{100} , V_{10}/V_{100} and D_{10}/D_{100} in all the perimeter streets (*Moccasin Road, Puli Road, Rocky Road* and *Shaumber Road*) in all the pertinent drainage maps in the next submittal.

9. A site visit conducted by the reviewer revealed that the proposed storm drain in *Moccasin Road* during the original phase improvement appear to have not been constructed. If this is the case, the current phase of expansion shall include the storm drain. Include the storm drain in *Moccasin Road* in the current set of improvement plans in the next submittal.

***** 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

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T/R/S: T19S/R59E/01

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