


CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM			DATE: February 7, 2023
TO: Land Development Services Department of Building & Safety			FROM: Caitlyn Alcantara, P.E.  Flood Control, Engr. Associate Department of Public Works
SUBJECT:	Drainage Study for:		COPIES TO:
WLVETC Expansion			LOCHSA Engineering
Cross Streets:	D Street & Adams Avenue		City of Las Vegas
File Number:	F:\Depot\DSMemos\DS05642A.doc		Bart Anderson, P.E., DevCo
Parcel Number:	139-27-201-005/006		CCRFCD
Zoning Action:			NDOT
FEMA Flood Zone	YES	NO X	
Proposed Storm Drain	YES X	NO	

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	1/12/2023	1/30/2023 Paid on 2/7/2023	See Comments Below	\$400	5133573: \$400
TOTAL FEES (LDDRS):				\$400	----

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.

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 project proposes to increase flows within *Nevada Department of Transportation* (NDOT) right-of-way. The engineer must contact NDOT for encroachment permit for the proposed project.
3. The site is adjacent to an existing *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>

Please note that effective April 6, 2020, only electronic submittals to the CCRFCD will be accepted for regional concurrence. Contact cwang@regionalflood.org for direction.

4. In the report, **Section 2.6: Previous Drainage Studies**, it contains only information of the master plan and FEMA Flood Zones and does not mention the previous drainage studies done to the area.
5. **Exhibit DR1 & DR2 (Existing and Developed Condition Maps):** Identify and callout existing storm drain facilities. For example, existing MPU facility (11' x 6' RCB) and 60" RCP at the southeast corner of the site and a drop inlet on the north half of Adams Avenue.
6. **Sheet C4.01:** The northern building finish floor does not meet the Regional Flood Control District minimum criteria of twice the Q_{100} 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 finish floor should be revised or alternate flood protection provided. Note that when a finished floor is lower than an adjacent curb the City of Las Vegas requires 18-inches above the water surface for flood protection.
7. **Sheet C4.02:** Provide a Finished Floor Elevation for "EXISTING MODULAR BLDG #1".
8. **Sheet C4.03:** Provide a callout, Construction Note 13, for the southern-most curb opening of the proposed four curb openings on the east boundary of the project site.
9. **Sheet C6.01, Section B & C:** These sections do not reflect the proposed grading of the area. Section B shows the sidewalk and landscape area as the same and Section C shows the proposed finished floor as above the D Street top-of-curb elevation.
10. **Sheet C6.01, Section D & G:** These sections do not show the existing retaining wall on the east boundary of the property.
11. Show the proposed gate around the property in the relevant sections.
12. Provide BMP design calculations for proposed BMP facilities such as landscape swales or sand/oil interceptors for the proposed site parking lot and LIDs per Section 1500 from the *Clark County Regional Flood Control District's Hydrologic Criteria and Drainage Design Manual*.
13. Provide an exhibit of the proposed LID BMPs showing what areas of the parking lot are being treated, partially treated, and left untreated. From the grading provided, it looks as if the northern half of the eastern project site is the only portion of parking area being treated. The required parking area to be treated is 75% as required by the CCRFCD Hydrologic Criteria and Drainage Design Manual.
14. Provide a detail for Construction Note 13.
15. In the grading plans, provide a callout to where the existing the curb will remain as existing.
16. It is unclear what an "Overhead Cover Boundary Line" is on Construction Note 11.
17. Discuss how proposed flows will impact existing sump grate inlet. Provide calculations that show the inlet and storm drain system have the capacity to accept the additional flow.

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
CAA/PBJ

T/R/S: T20S/R61E/S27
AREA M-27