

| | | |
|--|--|---|
| CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM | | DATE: May 10, 2023 |
| 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: |
| Las Vegas Academy | | Kleinfelder |
| Cross Streets: | NEC of 7 th Street & Clark Avenue | Clark County School District |
| File Number: | F:\Depot\DSMemos\DS5643C.doc | Bart Anderson, P.E.; DevCo |
| Parcel Number: | 139-34-710-038, 139-34-710-039, 139-34-701-010, 139-34-712-018 | |
| Zoning Action: | 22-0593-SDR1 & 22-0593-VAC1 | |
| 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 | 1/17/2023 | 2/1/2023 | Not Approved | \$400.00 | 5109349: \$400 |
| 2 nd Submittal | 2/28/2023 | 3/20/2023 | Not Approved | \$400.00 | 5164109: \$400 |
| 3 rd Submittal | 4/26/2023 | 5/10/2023 | See Comments Below | \$400.00 | 5248042: \$400 |
| TOTAL FEES (LDDRS): | | | | \$1,200.00 | ---- |

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. |

1. Per Item #24 under *Public Works Section* of **NOFA 22-0593-SDR1**, quote: “Contact the City Engineer’s Office at 702-229-6272 to coordinate the development of this project with the <7th Street Complete Street> project, the <8th Street, Stewart Avenue to Bridger Avenue> project and any other public improvement projects adjacent to this site. Comply with the recommendations of the City Engineer.” – End quote.

Proof of approval or no-objection from the City Engineer’s Office must be obtained prior to the final approval of the subject improvement plans.

2. Per Addendum #2, the **New Student Union Building, Theater and Student Courtyard/Amphitheater** are to be constructed in a future phase development. An update will be required to address *Phase 2 Development*.

3. **Figure 7 (Existing Onsite Basin Map):** *Hydraulic Section X16/E* adjacent to the *Existing Visual Arts Building* is to be found nowhere in the 100-year flow data table. Provide as such in the next submittal.

4. Addendum #2 stated that the finished floor of the *Visual Arts Building* will not meet criteria in the proposed interim condition. Address what shall be done to flood protect the building. For example, install a 1'-tall stem wall between the trench drain and the building is an option.
5. **Sheet C3.02:** The 100-year flow depth in 7th Street is 0.67'. The lowered finished floor elevation of the *New Gymnasium Building* will not meet the criteria anymore.

There are options to mitigate the situation: 1) Provide a 2'-high flood wall at the back of the sidewalk in 7th Street for the whole frontage of the proposed ***New Gymnasium Building*** for flood protection or 2) Revise ***Detail Section A/C6.03*** to extend the solid grouted portion of the building wall to 3-courses above the adjacent sidewalk. The solid grouted CMU blocks must be a minimum of 8"-thickness or equivalent. The flood proofing membrane must cover from the foundation to the top of the solid grouted portion.

6. **Sheet C3.01** and **Sheet C3.02:** Regarding the proposed trench drain between the ***New Gymnasium Building*** and the ***Construction Staging Area***, the use of Abbreviations are confusing. It is conventional to use "TG" to show the top of grate of the trench drain or any inlet, "FL" to show the flow line elevation of a swale or a concrete channel, "INV" to show the invert elevation of a drainage pipe etc.

In the grading plan of last submittal, "FL" sometimes show the top of the trench and sometimes appear to be the trench invert elevation. Review and revise to clarify the design of the trench system in the next submittal.

7. ***Detail Section H/C6.03*** is shown in a few locations on the plans, however, it is not shown on detail section **Sheet C6.03**.
8. ***Detail Section J/C6.03*** is shown in **Sheet C6.03**, however, the section is not to be found anywhere on the grading plans. Provide better Q & A in the next submittal.
9. *City of Las Vegas* does not allow HDPE pipe in public right-of-ways or public drainage easements. Note that *City of Las Vegas* only allows the use of HDPE storm drain pipes for privately owned and privately maintained storm drain systems which serve and are located exclusively on private properties. Any proposed HDPE storm drain pipes must also meet all design criteria established by the *Clark County Regional Flood Control District* and must be installed per *Clark County Regional Transportation Commission Uniform Standard Drawings and Specifications*.

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/R61E/34
AREA M-34