



**Update #3 to the
Technical Drainage Study
for**

Centennial 215 Plaza

Date Prepared:
July 2021

Prepared for:
Chick-fil-A
5200 Buffington RD
Atlanta, GA 30349
303.519.4834

Prepared by:
Kimley-Horn and Associates, Inc.
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, NV 89119
702.862.3600

Kimley»»Horn

HYDROLOGIC CRITERIA AND DRAINAGE MANUAL
DRAINAGE STUDY INFORMATION FORM

Name of Development: Chick-fil-A @ Centennial & US 95 Date: July 2021

Location of Development: a) Descriptive (Cross Streets) North/South: US 95 Ramp

East/West: Centennial Center Boulevard

b) Section: 28 Township: 19S Range: 60E

c) APN : 125-28-510-001

Name of Owner: Centennial 215 Plaza LLC/Chick-fil-A

Telephone No.: 702.253.5371 Fax No.: N/A E-Mail Address: N/A

Address: 8350 West Sahara #210; Las Vegas, NV 89117

Contact Person-Name: Michael Schwab, P.E. Telephone No.: 702.790.0206

* E-Mail Address: michael.schwab@kimley-horn.com Fax No.: N/A

Firm: KIMLEY-HORN

Address: 6671 Las Vegas Boulevard South, Suite 320 Las Vegas, NV 89119

Type of Land Development/Land Disturbance Process:

<input type="checkbox"/> Rezoning	<input type="checkbox"/> Subdivision Map	<input type="checkbox"/> Clearing and Grading Only
<input type="checkbox"/> Parcel Map	<input type="checkbox"/> Planned Unit Development	<input checked="" type="checkbox"/> Other (Please specify below)
<input type="checkbox"/> Large Parcel Map	<input checked="" type="checkbox"/> Building Permit	GRADING PERMIT

1. Total Owned Land Area: At Site: +/- 5.86 acres Being Developed/Disturbed: +/- 0.53 acres

2. Is a portion or all of the subject property located in a designated FEMA Flood Hazard Area? Yes** No

3. Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? Yes** No

4. Proposed type of development (Residential, Commercial, Etc.): Commercial

5. Approximate upstream land area which drains to the subject site: N/A

6. Has the site drainage been evaluated in the past? YES NO If yes, please identify documentation: TDS for Centennial 215 Plaza; Momeni Engineering, March 2020, Updated TDS for Centennial 215 Plaza; Momeni Engineering, October 2020

7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: US 95 Ramp

8. Briefly describe your proposed schedule for the subject project: ASAP

Submit this form as part of the required drainage study to the local entity which has jurisdiction over the subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

***New Required Field**

****Review and concurrence of the Clark County Regional Flood Control District is required.**

	Revision	Date
_____ Local Entity File No.		

Engineer's Seal

REFERENCE:

STANDARD FORM 1

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM		DATE: June 22, 2021
TO: Land Development Services Department of Building & Safety		FROM: Jennifer Shinn, P.E. Flood Control, Engr. Associate Department of Public Works
SUBJECT:	Drainage Study for:	COPIES TO:
Centennial 215 Plaza - Update #2		Chick-fil-A
Cross Streets:	US 95 Ramp and Centennial Center Blvd	Kimley-Horn
File Number:	F:\Depot\DSMemos\DS05370B.doc	Bart Anderson, P.E., DevCo
Parcel Number:	125-28-510-001	
Zoning Action:	SDR-77191, TMP-77192	
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	10/6/2020	10/22/2020 & 11/16/2020	See Comments Below	\$400.00	4022296: \$400
2 nd Submittal	6/3/2021 & 6/16/2021	6/22/2021	Approved	\$100.00	4320797: \$100
			TOTAL FEES (LDDRS):	\$500.00	----

REMARKS:

2nd Submittal: Update #2 to address site changes to loading zone areas.

The Drainage Study for the subject project has been reviewed and:

X	is approved subject to conformance to all City standards and the following conditions:
	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.

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

JKS

T/R/S: T19S/R60E/S28

AREA G-28



July 27, 2021

Ms. Jennifer Shinn, P.E.
City of Las Vegas Flood Control
333 Rancho Drive
Las Vegas, NV 89106

RE: *Update #3 to the Technical Drainage Study for Centennial 215 Plaza*

Dear Ms. Shinn,

This letter certifies that all items provided on the *Update #3 to the Technical Drainage Study for Centennial 215 Plaza* electronic submittal matches the paper version bound into the study.

With Kimley-Horn, you should expect more and will experience better. Please contact me at (702) 790-0206 or michael.schwab@kimley-horn.com should you have any questions or concerns.

Sincerely,

Michael Schwab, P.E.

Elizabeth Martinez, E.I.

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July 27, 2021

Ms. Jennifer Shinn, P.E.
City of Las Vegas Flood Control
333 Rancho Drive
Las Vegas, NV 89106

RE: Update #3 to the Technical Drainage Study for Centennial 215 Plaza (DS-5370B)

Dear Ms. Shinn,

The purpose of this letter is to serve as the **Update #3** to the subject project. The *Technical Drainage Study for Centennial 215 Plaza* (hereinafter referred to as **TDS**) was approved by CLV on March 25, 2020, the *Update to the Technical Drainage Study for Centennial 215 Plaza* (hereinafter referred to as **Update**) was approved by CLV on November 16, 2020, and the *Update #2 to the Technical Drainage Study for Centennial 215 Plaza* (hereinafter referred to as **Update #2**) was approved by CLV on June 22, 2021. Pertinent reference material has been included in **Appendix B**. The **Update #3** included herein, is intended to supersede data contained in previous studies.

Since approval of **Update #2**, some site revisions have been made in the area of **Pad 1**, which is a proposed building for the proposed Chick-fil-A, as shown on the referenced grading plans and referenced **Figure DR2 – Developed Condition Drainage Map** found in **Appendix B**. The proposed revisions include:

- Revised grading based on landlord as-built tie in elevations.
- Corrected building footprint.

The proposed project generally maintains existing drainage patterns and the proposed buildings meet finished floor elevation criteria. The methodologies and calculations presented in this report are in compliance with the CCRFCD Hydrologic Criteria and Drainage Design Manual (Manual).

The proposed revisions did not require any revisions to the hydrology as the revised grading does not change the drainage patterns from the approved **TDS** or **Update** or **Update #2**. Furthermore, none of the hydraulic sections used to check the finished floor elevations of building in the approved **TDS** or **Update** have changed with the proposed revisions. Please refer to the grading plans in **Appendix C**.

In general, the overall drainage patterns for the site are consistent with the original **TDS**, **Update**, and **Update #2** and the proposed site plan does not significantly alter existing peak flows or the character of flows downstream of the development and do not pose any negative impacts on the downstream facilities and development.

With Kimley-Horn, you should expect more and will experience better. Please contact me at (702) 790-0206 or michael.schwab@kimley-horn.com should you have any questions.

Sincerely,

Michael Schwab, P.E.

Elizabeth Martinez, E.I.



LIST OF APPENDICES

Appendix A – Documents

- Assessor's Parcel Maps

Appendix B – Reference Material

- Technical Drainage Study for Centennial 215 Plaza; Prepared by Momeni Engineering, LLC. Approved March 25, 2020. DS-5190.

Appendix C– Improvement Plans

Appendix D – Data CD