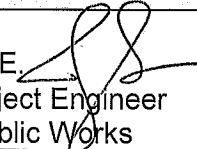


CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		December 26, 2019
TO: Land Development Services Department of Building & Safety		FROM: Jennifer Shinn, P.E.  Flood Control Project Engineer Department of Public Works
SUBJECT:	Drainage Study for: Centennial Jensen 5	COPIES TO: GCW Inc.
Cross Streets:	SWC of Centennial Parkway & Jensen Street	D.R. Horton
File Number:	F:\Depot\DSMemos\DS5056D.doc	Bart Anderson, P.E., DevCo
Parcel Number:	125-30-101-006	CCPW
Zoning Action:	TMP-75223	
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	11/1/2018	11/19/2018	See Comments Below	\$400.00	500566: \$400
2 nd Submittal	8/5/2019	8/21/2019		\$400.00	3518172: \$400
3 rd Submittal	9/16/2019	9/30/2019		\$400.00	3571659: \$400
4 th Submittal	12/26/2019	12/26/2019	Approved	\$0.00	N/C
TOTAL FEES (LDDRS):				\$1200.00	----

REMARKS:

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
WSP/AYS/JKS

T/R/S: T19S/R60E/30
AREA G-30



Department of Public Works

500 S Grand Central Pky • Box 554000 • Las Vegas NV 89155-4000
(702) 455-6000 • Fax (702) 455-6040

Denis Cederburg, P.E., Director • E-Mail: dlc@ClarkCountyNV.gov



Drainage Study Approval Letter

Date: October 23, 2019
Firm: GCW
Engineer: Steve Jones, P.E.
Address: 1555 S. Rainbow Boulevard, Las Vegas, NV 89146
Phone: (702) 804-2000
Fax: (702) 804-2299
E-mail: sjones@gcwengineering.com

Subject: Technical Drainage Study for Centennial Jensen 5
Location: NWC of Regena Avenue and Jensen Street
APN: 125-30-101-006
Sec, Township, Range: S30, T19S, R60E
Flood Zone & Panel: Zone X, 1745E, Dated September 27, 2002
Application Number: pw19-18390

Submittals	Date Received	Date Returned	Reviewer	Miscellaneous
Technical	10/09/2019	10/23/2019	WG	
Addendum #1	10/09/2019	10/23/2019	WG	
Addendum #2	10/09/2019	10/23/2019	WG	

Concurrence Required: (Must be obtained prior to permit issuance)		Reason Concurrence is Required
	Boulder City	Adjacent to or Impacts Jurisdiction
	City of Mesquite	Adjacent to or Impacts Jurisdiction
	City of Henderson	Adjacent to or Impacts Jurisdiction
	City of Las Vegas	Adjacent to or Impacts Jurisdiction
	City of North Las Vegas	Adjacent to or Impacts Jurisdiction
	Nevada Department of Transportation	Adjacent to or Impacts NDOT Facility
	Union Pacific Rail Road	Adjacent to or Impacts a UPRR Facility
	US Army Corps of Engineers	Impacts a USACE Facility
	Clark County Regional Flood Control District	Regional Significance, Adjacent to or Impacts CCRFCD MPU Facility or in a SFHA

The referenced **Technical Drainage Study** has been reviewed and is accepted as complying with minimum improvement standards. As set forth in the subject drainage study, the following measures will be taken to mitigate flood hazards.

The site shall be graded with respect to drainage as shown on "**Centennial Jensen 5**", grading plan sheets C1, C2, P5, P6, signed and sealed by Gia D. Nguyen, P.E., on September 9, 2019 and sheets G1, G2, D1, P1, P2, P3, P4, signed and sealed by Gia D. Nguyen, P.E., on September 13, 2019.

Check appropriate conditions

	Retaining/screen wall combination may be in excess of current Clark County Unified Development Code, Chapter 30.64.050.
	A FEMA Elevation Certificate, completed by a licensed surveyor, must be submitted to and approved by CCPW Development Review Plan Check prior to the issuance of Certificates of Occupancy for those structures.
X	Mylars of the grading plan must be submitted to the CCPW Development Review Plan Check for approval signatures prior to map recordation (residential) or permit issuance (commercial).
	An administrative variance to allow the finished floor elevation(s) to be set below the current Clark County criteria must be approved. The finished floor variance must be submitted to CCPW Development Review front counter after drainage study approval and prior to offsite final review.
	The grading plan will be reviewed by the Building Office Operations Division to ensure compliance with the ADA access requirements. Revisions to the grading plan may be required if the site accessibility design does not comply with the requirements set forth in the Accessibility Chapter of the Clark County Building Code.
	The plans show work is proposed outside of the project boundary. Notarized written permission must be obtained prior to grading plan approval.
X	Right-of-way dedication must be verified.
	Any previously approved drainage easements that are not being used must be vacated.
	<i>Per Regional Flood Control District policies and Procedures manual, Section VIII. D. 13. Uniform Regulations for the Control of Drainage, the Engineer of Record shall provide As-Built plans or record drawings to the District after completion and final inspection of such privately installed flood control facilities that have regional flood control significance.</i>
	Structural calculations are required. The structural calculations, plans, and details must be approved prior to "Offsite" submittal and prior to CCRFCD submittal, if applicable.
X	Plan revisions can be found on the red-lined plans and must be addressed.
	Prepare drainage easement documents as shown on the grading plans.

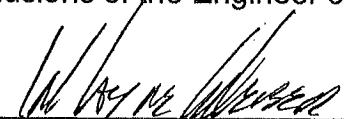
Additional Conditions:

1. The above-referenced project is located within the **City of Las Vegas** adjacent to Clark County unincorporated areas. The drainage study was submitted to the County for concurrence on October 9, 2019. In addition, the County has received the City of Las Vegas acceptance letter dated September 30, 2019 for the Technical Drainage Study (File# DS5056C).
2. The County concurs with the acceptance of this Drainage Study by the City of Las Vegas. Please note that the County's review of this development is limited to drainage issues significant to Clark County unincorporated areas.
3. There are pavement transitions being constructed within Clark County ROW. Therefore, the engineer must submit to CCPW for offsite plan review and permits.
4. Provide Clark County signature blocks and notes on plans.

The County's review is solely based on the information submitted by the Engineer of Record. The County's review is strictly limited to compliance with minimum County Codes and Standards. The Engineer of Record is responsible for researching and addressing situations that may require designs above and beyond the minimum codes for issues of public safety and impacts to upstream, downstream and adjacent properties. The County assumes no liability for information data, designs or conclusions of the Engineer of Record.



Wade Gerstenkorn
Associate
Development Review
wade@ClarkCountyNV.gov



W. Layne Weber, P.E., CFM
Principal Engineer
Development Review
wlweber@ClarkCountyNV.gov