

DS #: 4891

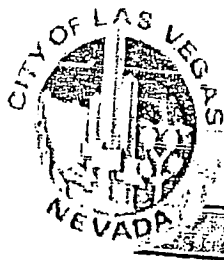
APN: 125.18-403.003

PROJECT: Elkhorn & Grand Canyon Residential

SUBMITTAL: CIPW & CCRFD

SCANNED BY/DATE:

CHECKED BY/DATE:



CITY OF LAS VEGAS			DATE:
INTER-OFFICE MEMORANDUM			January 3, 2018
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: Elkhorn & Grand Canyon Residential			COPIES TO: Per4mance Consulting Engineering
Cross Streets:	NWC of Elkhorn Rd. & Grand Canyon Dr.		THM Enterprises / Touchstone Living
File Number:	F:\Depot\DSMemos\DS4891D.doc		Bart Anderson, P.E., DevCo
Parcel Number:	125-18-403-003		CCRFCFCD
Zoning Action:	TMP-64790		CCPW
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	5/23/2017	6/10/2017	Not Approved	\$400.00	486198: \$400
2 nd Submittal & Supplement	8/2/2017 & 8/16/2017	8/23/2017	Not Approved	\$400.00	489158: \$400
3 rd Submittal & Supplement	11/9/2017 & 11/28/2017	11/29/2017	Conditional Approval	\$400.00	491161: \$400
CCPW & CCRFCFCD	1/3/2018	1/3/2018	Concurrences Recv'd	N/C	N/C
TOTAL FEES (LDDRS):				\$1,200.00	----

REMARKS: 3rd Submittal to address CCRFCFCD comments.

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.

1. Coordinate with *Lorraine Dunford*, Engineering Project Manager of City Engineer's Division at (702) 229-6738 to match the subject project with the ongoing project of "Rancho Road System Storm Drain – Elkhorn: Grand Canyon to Hualapai".
2. The proposed crossfall section of the interior roadway is a deviation from standard. Obtain approval from *Land Development* prior to the final acceptance of the improvement plans.

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.

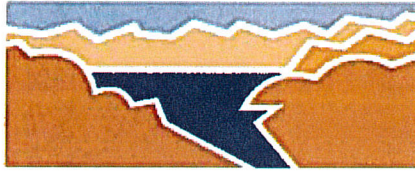
NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained 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

Ays/pbj

T/R/S: T19S/R60E/18
AREA G-18

REGIONAL FLOOD CONTROL DISTRICT



Steven C. Parrish, P.E.
General Manager/Chief
Engineer

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November 30, 2017

Mr. Oh Sang Kwon, P.E.
City of Las Vegas Department of Public Works
333 North Rancho Drive
Las Vegas, NV 89106

**DISTRICT CONCURRENCE: ELKHORN & GRAND CANYON RESIDENTIAL
(DS4891C) (RFCD No. 17-9912)**

Dear Mr. Kwon:

Clark County Regional Flood Control District (District) reviewed Technical Drainage Study dated May 23, 2017, Addendum No. 1 dated August 2, 2017, Addendum No. 2 dated November 9, 2017, Supplement No. 1 dated August 16, 2017 and Supplement No. 2 dated November 28, 2017 for above-mentioned project as submitted by PER4MANCE CONSULTING ENGINEERING. In addition, District is in receipt of the Conditional Letter of Acceptance from City of Las Vegas Department of Public Works dated November 29, 2017.

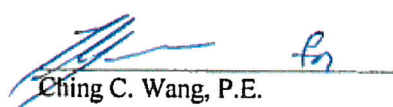
District concurs with acceptance of this Technical Drainage Study by City of Las Vegas Department of Public Works.

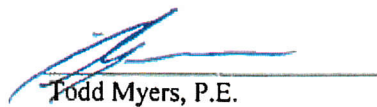
District's review of this project was limited to issues of Regional Flood Control Significance as defined in *Uniform Regulations for the Control of Drainage*.

Please be aware that as additional information becomes available and/or restudies of Flood Insurance Studies are performed, information submitted by PER4MANCE CONSULTING ENGINEERING may be superseded. Compliance with regulatory elements and design standards specified in *Uniform Regulations for the Control of Drainage* does not imply a guarantee that properties will be free from flooding or flood damage. The District, its officials, or employees assume no liability for information, data, or conclusions presented by consulting engineers. We, therefore, make no warranties, either expressed or implied, in conducting this review.

STEVEN C. PARRISH, P.E.
General Manager/Chief Engineer

BY:


Ching C. Wang, P.E.
Senior Civil Engineer


Todd Myers, P.E.
Engineering Director

CCW:cr

c: Ray F. Fredericksen, P.E., Per4mance Consulting Engineering

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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: dlo@ClarkCountyNV.gov

Drainage Study Concurrence Letter

Date: September 28, 2017
Firm: Per4mance Engineering
Engineer: Ray F. Fredericksen, P.E.
Address: 9345 West Sunset Road, Suite 101, Las Vegas, NV 89148
Phone: (702) 569-9770
Fax: N/A
E-mail: rayf@per4mancelv.com

Subject: Technical Drainage Study for Elkhorn & Grand Canyon
Location: NWC of Elkhorn Road and Grand Canyon Drive
APN: 125-18-403-003
Sec, Township, Range: S18, T19S, R60E
Flood Zone & Panel: Zone X, 1745E, Dated September 27, 2002
Application Number: 17-41588

Submittals	Date Received	Date Returned	Reviewer	Miscellaneous
Technical	09/07/2017	09/28/2017	SA	
Addendum #1	09/07/2017	09/28/2017	SA	
Supplement	09/07/2017	09/28/2017	SA	

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 September 7, 2017. In addition, the County has received the City of Las Vegas acceptance letter dated August 23, 2017 for the Technical Drainage Study (DS4891B).

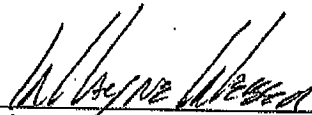
The County concurs with the acceptance of this Drainage Study by the City of Las Vegas. Please note that the County's review of this development is limited to drainage issues significant to Clark County unincorporated areas.

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YOLANDA T. KING, County Manager

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.



Sam Andales, E.I.
Plan Checker
Development Review
saa@ClarkCountyNV.gov



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

cc: Albert Sung, P.E., City of Las Vegas