

CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM		DATE: 3/05/2022	
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:	
Autonation USA Las Vegas		Foresite Group, LLC	
Cross Streets:	N Juliano Road and W Centennial Parkway	Las Vegas ANUSA, Autonation USA	
File Number:	F:\Depot\DSMemos\DS5531B.doc	Bart Anderson, P.E., DevCo	
Parcel Number:	12520804003, 12520804004, 12520804005, 12520804007		
Zoning Action:			
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	12/13/2021	12/28/2021	Not Approved	\$400	4575137: \$400
2 nd Submittal	2/15/2022	3/05/2022	See Comments Below	\$400	4652271: \$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.

The following are comments pertaining to the subject site specific drainage study and grading plans:

1. The site is also adjacent to the ongoing Clark County Beltway project. The engineer must coordinate with *Clark County Department of Public Works (CCPW)* and incorporate any concerns for boundary conditions along the northern border. CCPW concurrence is required prior to final acceptance of the study.
2. Provide explanation on how OFF1 and OFF2 flows are calculated. If these flows are referenced, state that in the report and basin maps. If these flows are calculated, please provide calculation.
3. Address the following comments in the Standard Form 4:
 - a. Add column for CN number in the Standard Form 4.
 - b. Add basins OFF1 and OFF2.
 - c. Area for ONEX1 doesn't match area shown in the basin map. Revise accordingly.
4. Address the following comments in the HEC-1:
 - a. UD for ONEX1 doesn't match the Standard Form 4.
 - b. 10-year/100-year ratio for PREC card doesn't match the provided calculation.

- c. PB card for ONDV1 doesn't match the provided calculation
 - d. UD card for ONDV1 doesn't match the Standard Form 4.
 - e. UD card for ONDV2 doesn't match the Standard Form 4.
5. Provide cross-section to include station, elevation and manning's n used in FHWA calculation. Also, use consistent manning's n for street section between existing, interim and future conditions.
 6. Provide a 6-inch "Hump" above the Q100 flow depth at the entrance to the proposed site.
 7. Address the following comments in the grading plan:
 - a. Provide construction notes based on the Clark County Area Standard Drawing Numbers and/or provide special detail on the detail sheets.
 - b. Provide missing sheets C-5.0, C-5.1, C-5.2, and C-5.3 related to construction of the proposed site.
 - c. Provide Flood Zone note, Storm Water compliance notes, construction notes, DS compliance note, and Basis of Bearing on the grading sheet.
 - d. Show limit of new pavement and existing pavement.
 - e. Add slope of storm water quality swale.
 - f. Provide curb openings along the storm water quality swale from the parking lot.
 - g. Add RCP class.
 - h. Show entire Centennial Parkway on the grading plan. Label R/W width, existing pavement limit, proposed, pavement limit, pavement cross-section, etc.
 - i. Provide cross-section of Centennial Parkway, east boundary line, north boundary line, west boundary line. and Juliano Road.
 - j. Add percent slope for Juliano Road, Juliano Road cul-de-sec (1% minimum) Centennial Parkway.
 - k. Callout thickness of riprap. Typically, twice thickness of D50. Label bedding material along with thickness.
 8. Provide cross-sections at eh property lines. Typical sections are to extend through a building finish floor, parking, drive isle, landscape area, perimeter wall, and property line. Show existing and proposed improvements in the sections.
 9. Add construction notes to the grading plan to clarify what improvements are to be constructed. Include type of curbs, channels, valley gutters, pavement, etc. Include references to standard plans or provide details.
 10. Provide the standard drainage compliance note on the grading plan: *"I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE AT THE CITY OF LAS VEGAS FOR THIS PROJECT (DSXXXX)"*.
 11. Note that offset crown street is a deviation from standard. Apply for a deviation meeting with *City Land Development Section* for approval prior to the final acceptance of the improvement plans. The Juliano Road and Centennial Parkway appears to have offset crown street. If Juliano Road and Centennial Parkway has typical street cross-section, revise grading accordingly.
 12. Please submit one copy of everything. Don't need to submit two copies.

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

T/R/S: T19S/R60E/S20
AREA G-20