



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (RLV 09/2015)

Project Title: WADE RESIDENCE Building Permit #: 24592276 City Drainage #: L17DOZ
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: LOT 10A PARKLAND HILLS ADDITION BLOCK 38
City Address: 920 GRANDVIEW SE.
Engineering Firm: THOMPSON ENG Contact: DAVE THOMPSON
Address: P.O. BOX 65760 ALB N.M.
Phone#: 271-2199 Fax#: _____ E-mail: _____
Owner: KAY WADE Contact: _____
Address: 610 PAIR VIEW SE
Phone#: _____ Fax#: _____ E-mail: _____
Architect: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____
Other Contact: PAUL KENDRADING Contact: PAUL
Address: _____
Phone#: 249-2495 Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ OTHER (SPECIFY) _____

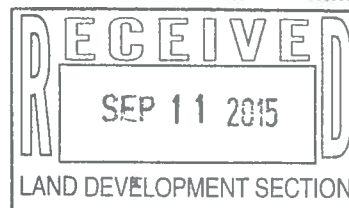
IS THIS A RESUBMITTAL?: Yes ☒ No

DATE SUBMITTED: 9-11-15 By: _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☒ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT APPROVAL
☐ GRADING/ PAD CERTIFICATION
☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR
☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____



September 10, 2015

Mr. Shahab Biazar, P.E.
City Engineer
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

**Re: RETENTION POND CALCULATION FOR LOT 10-A, BLOCK 38, PARKLAND
HILLS ADDITION**

Dear Mr. Biazar:

We have completed hydrologic calculations to determine the required retention pond volume for a 100-year, 10-day storm for Lot 10-A, Block 38, Parkland Hills Addition located at the corner of Parkland Circle and Grandview Drive in southeast Albuquerque. The hydrologic criteria in Section 22 of the City of Albuquerque Development Process Manual (DPM), entitled "Drainage, Flood Control, and Erosion Control," was followed to perform the runoff calculations for the site. The design storm used for both the existing undeveloped and developed conditions of Lot 10-A is the 100-year, 10-day storm event for peak volume computations. The property is located in Zone 2, which has a 100-year, 10-day storm event of 3.95 inches. The property was assigned land treatment values in accordance with Tables A-4 and A-5 of the DPM's section 22.2.

The area of the lot is 0.2534 acre. The total impervious area of the proposed home and driveway to be constructed on the lot is 4.483 square feet. The spreadsheet attached to this letter calculates the 100-year, 10-day volume for proposed conditions to be 1.911 cubic feet. Therefore, the required ponding volume on the property shall be at least 1.911 cubic feet.

If you should have any questions about this calculation, please call me at 271-2199.

Sincerely,



David B. Thompson, P.E.



Plan Check Section
I.B.C.

SEP 11 2015

City of Albuquerque
Safety

100-YEAR HYDROLOGIC CALCULATIONS

BASIN #	AREA (acre)	LAND TREATMENT				WEIGHTED E (in)	100-YEAR PRECIPITATION				
		A (%)	B (%)	C (%)	D (%)		V (6-hr) (acre-ft)	V (6-hr) (cu-ft)	V(10 day) (acre-ft)	V(10 day) (cu-ft)	Q (cfs)
EXISTING CONDITIONS											
1	0.2534	100.00	0.00	0.00	0.00	0.53	0.01	488	0.01	488	0.40
TOTAL RUNOFF		0.25					0.01	488	0.01	488	0.40
PROPOSED CONDITIONS											
1	0.2534	0.00	29.70	29.70	40.60	1.43	0.03	1,314	0.04	1,911	0.89
TOTAL RUNOFF		0.25					0.03	1,314	0.04	1,911	0.89
EXCESS PRECIP.			0.53	0.78	1.13	2.12	E _i (in)				
PEAK DISCHARGE			1.56	2.28	3.14	4.7	Q _{PI} (cfs)				
<div>WEIGHTED E (in) = (E_A)(%A) + (E_B)(%B) + (E_C)(%C) + (E_D)(%D)</div> <div>V_{6-HR} (acre-ft) = (WEIGHTED E)(AREA)/12</div> <div>V_{10DAY} (acre-ft) = V_{6-HR} + (A_D)(P_{10DAY} - P_{6-HR})/12</div> <div>Q (cfs) = (Q_{PA})(A_A) + (Q_{PB})(A_B) + (Q_{PC})(A_C) + (Q_{PD})(A_D)</div> <div>ZONE = 2</div> <div>P_{6-HR} (in.) = 2.35</div> <div>P_{24-HR} (in.) = 2.75</div> <div>P_{10DAY} (in.) = 3.95</div>											

City of Albuquerque
Building & Safety
SEP 11 2014
Plan