

CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

November 13, 2017

Thomas D. Johnston, P.S., P.E.
TGC Engineering
330 Louisiana Blvd NE
Albuquerque, NM, 87108

**RE: 5619 Cinder Cone Drive NW
Grading and Drainage Plan
Request for Permanent C.O. – Accepted
Engineer's Stamp Dated 4/11/17
Engineer's Certification Dated 11/06/17
Hydrology File: E10D030**

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Dear Mr. Johnston:

Based on the Certification received 11/07/17 and site visit on 11/09/17, the site is acceptable for a Permanent Certificate of Occupancy by Hydrology for 5619 Cinder Cone Drive NW.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: _____ **Building Permit #:** _____ **City Drainage #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Engineering Firm: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Architect: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Other Contact: _____ **Contact:** _____

Address: _____

Phone#: _____ **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) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

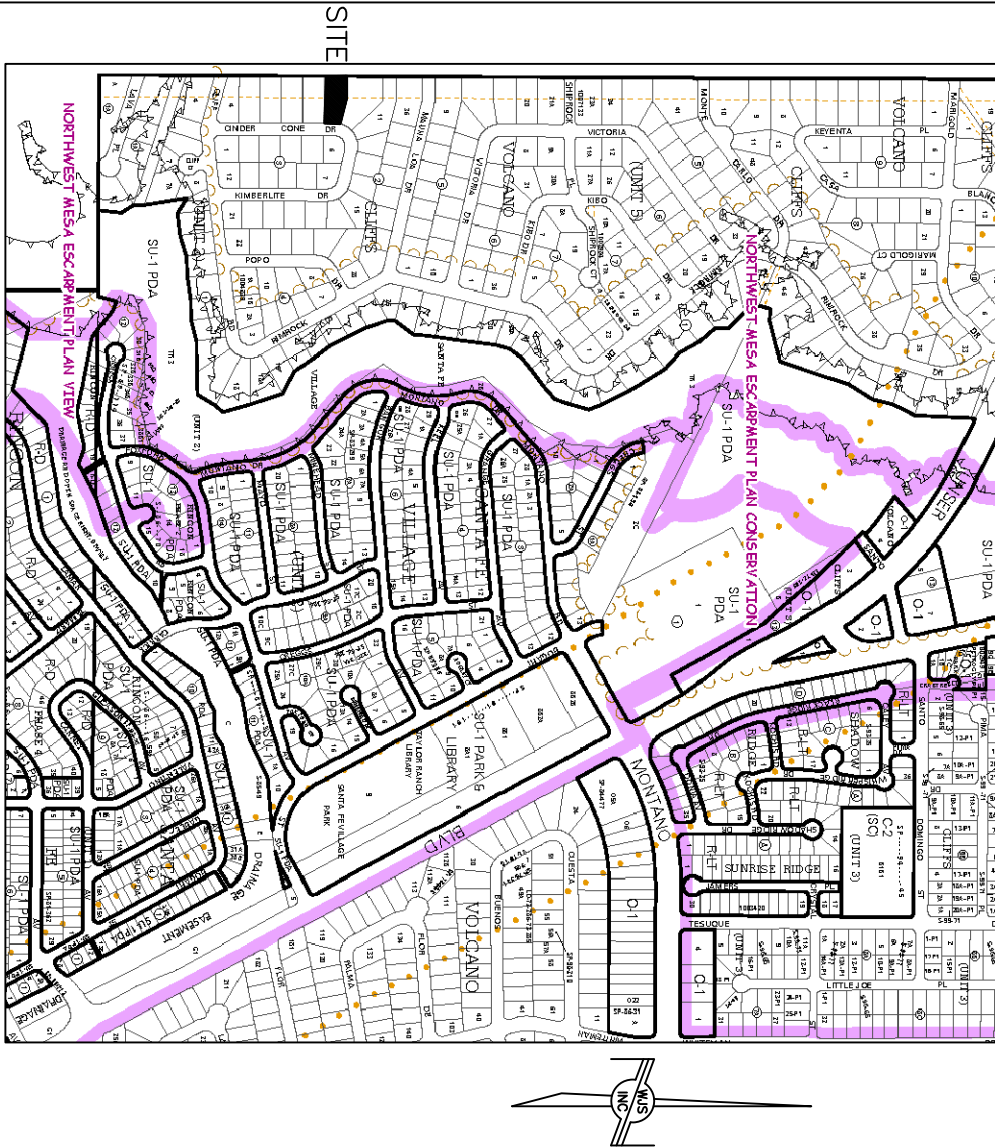
- ☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
- ☐ PRELIMINARY PLAT APPROVAL
☐ SITE PLAN FOR SUB'D APPROVAL
☐ SITE PLAN FOR BLDG. PERMIT APPROVAL
☐ FINAL PLAT APPROVAL
☐ SIA/ RELEASE OF FINANCIAL GUARANTEE
☐ FOUNDATION PERMIT APPROVAL
☐ GRADING PERMIT APPROVAL
☐ SO-19 APPROVAL
☐ PAVING PERMIT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

IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

DATE SUBMITTED: _____ **By:** _____

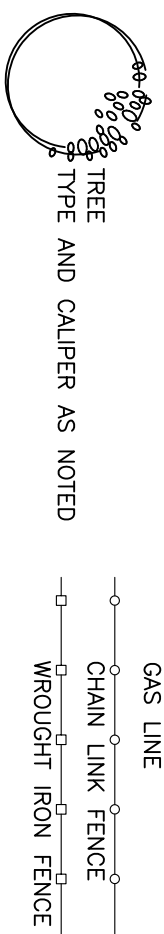
COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

VICINITY MAP (E-10-Z)



LEGEND

- WM WATER METER
- FL FIRE HYDRANT
- LP LIGHT POLE
- OM ELECTRIC METER
- OG GAS METER
- OT TELEPHONE INSERT
- OTC TELEPHONE CABLE
- OTR TELEPHONE TRANSFORMER
- SPOT ELEVATION
- ELEVATIONS ARE TO ANNOTATED SPOTS
- EC EDGE OF CONCRETE
- TA TOP OF ASPHALT
- TC TOP OF CONCRETE
- FL FLOWLINE
- TW TOP OF WALL
- BURIED ELECTRIC LINE
- GAS LINE
- CHAIN LINK FENCE
- WROUGHT IRON FENCE



- EXISTING CONTOURS @ 0.5 FT. INTERVALS
- INDEX CONTOURS @ 1 FT. INTERVALS
- PROPOSED CONTOURS @ 0.5' INTERVALS
- PROPOSED SPOT ELEVATION
- TC TOP OF CONCRETE
- FL FLOW LINE
- TW TOP OF WALL
- TA TOP OF ASPHALT

LEGAL DESCRIPTION

Lot numbered Nine (9) in Block numbered Two (2) of VOLCANO CLIFFS UNIT 2, as the same is shown and designated on said plat filed in the office of the County Clerk of Bernalillo County, New Mexico on February 15, 1966 in Plat Book 06, Page 106.

FLOOD ZONE DESIGNATION

It is hereby certified that this property is not located within a 100-year flood hazard boundary in accordance with current HUD Federal Administration Flood Hazard Boundary Maps dated August 16, 2012, Zone X (No Flood Hazard) Panel 350002 0113 G.

BENCH MARK

Basis of elevations: ACS STATION 20+51.07' NAD 88 MSL ELEVATION: 5314.612
TBM: #4 REBAR AT NORTHWEST CORNER OF PROPERTY MSL: 5337.703

NOTICE TO CONTRACTOR

PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN ARE TO FINISHED SURFACES AND ARE PROVIDED FOR THE PURPOSE OF SHOWING FLOW ROUTING.

CONTRACTOR IS RESPONSIBLE FOR THE ABATEMENT OF SEDIMENT ONTO ADJOINING PUBLIC RIGHTS-OF-WAY DURING CONSTRUCTION AND FOR THE REMOVAL OF ANY SEDIMENT DEPOSITED IN PUBLIC RIGHT-OF-WAY.

CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO ANY GRADING OR CONSTRUCTION.

SITE IS NOT SUBJECT TO NPDES SWPPP REQUIREMENTS (DISTURBED AREA < 1 ACRE).

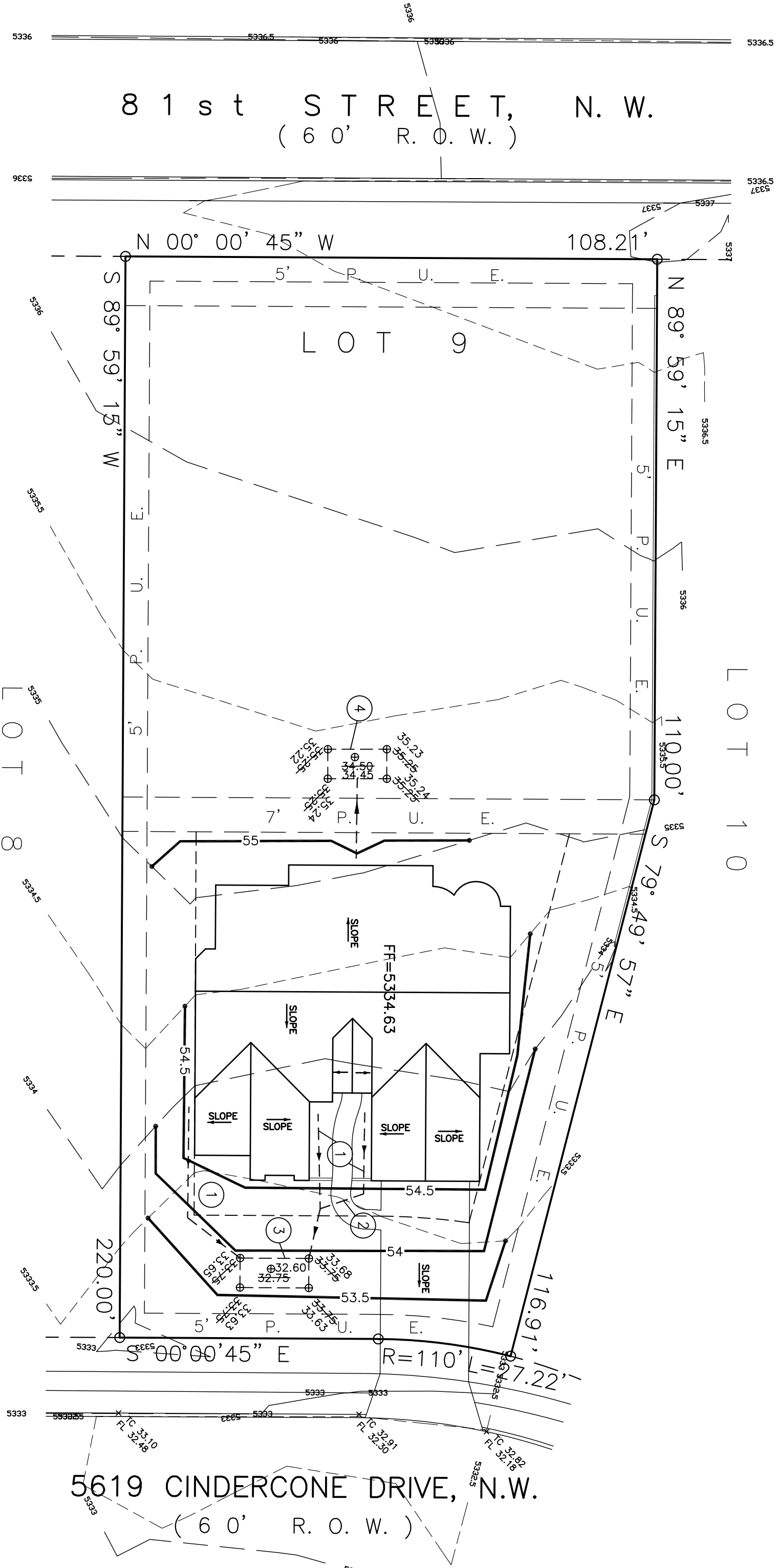
ALL IMPROVEMENTS WITHIN CITY OF ALBUQUERQUE RIGHT OF WAY MUST BE CONSTRUCTED BY SO-19 PERMIT.

DRAINAGE NOTES:

- ROOF DRAINAGE CONVERTED TO SWALES TO CAPTURE FIRST FLUSH IN RETENTION PONDS.
- ALL ELEVATIONS GIVEN ARE TO TOP OF PROPOSED GRADE

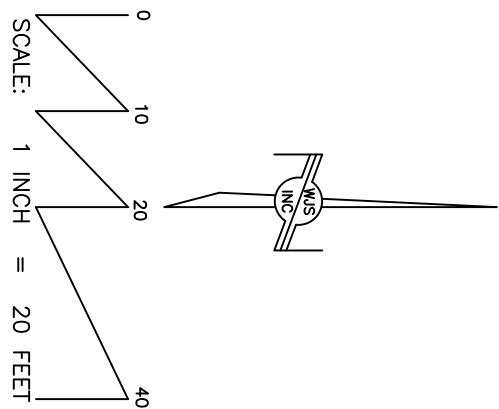
KEYED NOTES

- SWALE, 1/2" TO 1' TO POND, 6" DEPTH, 1:1 SIDE SLOPES
- INSTALL 3" PVC PIPE WITH SCUPPERS TO ALLOW FLOW UNDER SIDEWALK
- POND, 82 cf, 1 FOOT DEPTH
- POND, 43 cf, 0.75 FOOT DEPTH



DRAINAGE CERTIFICATE
I, Thomas D. Johnston, NMPE 17158, of the firm of TGC ENGINEERING INC., hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated April 11, 2017. The record information edited onto the original design document has been obtained by Thomas D. Johnston, NMPS 14268, of the firm of WAYJOHN SURVEYING INC. I further certify that I have personally visited the project site on November 6, 2017 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for final Certificate of Occupancy. The record information presented herein is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Thomas D. Johnston, NMPE 17158
11/6/2017



DRAINAGE CONCEPT

THE DRAINAGE CONCEPT FOR THIS SITE IS TO RETAIN THE FIRST FLUSH PRECIPITATION WITHIN THE DEVELOPMENT AND DISCHARGE THE EXCESS ADDITIONAL PRECIPITATION SHALL FREE DISCHARGE THE EXCESS RUNOFF FROM IMPERVIOUS SURFACES VIA THE DRIVEWAY OPENING TO CINDERCONE DRIVE, NW AS IT HAS OCCURRED HISTORICALLY.

ONSITE HYDROLOGY

THIS SITE LIES WITHIN PRECIPITATION ZONE 1					
Condition	Return Period (Years)	Runoff Type (sq ft.)	Runoff Area (cfs/ac)	Volume (cu ft.)	Rate (cfs)
EXISTING	100	A	22,308	1.29	818.0
		B	0	0.67	2.03
		C	0	0.99	2.87
		D	0	1.97	4.37
EXISTING	10	A	22,308	0.24	148.7
		B	0	0.24	0.76
		C	0	0.44	1.48
		D	0	1.24	2.89
DEVELOPED	100	A	11,903	0.67	2.03
		B	6,224	0.22	0.76
		C	4,181	1.97	4.37
		D	11,903	0.08	0.24
DEVELOPED	10	A	6,224	0.22	0.76
		B	0	0.22	0.76
		C	4,181	1.24	2.89
		D	4,181	0.28	0.86
TOTAL (EX)	100				
	10				
TOTAL (DEV)	100				
	10				

FLOW RATE INCREASES OF 0.4 CFS AND 0.4 CFS FOR THE 100-YEAR AND 10-YEAR STORMS MAY BE EXPECTED. THE 6-HOUR RUNOFF VOLUMES WILL INCREASE BY 692 CUBIC FEET FOR THE 100-YEAR STORM & 477 CUBIC FEET FOR THE 10-YEAR STORM.

FIRST FLUSH INFORMATION

THE FIRST FLUSH PRECIPITATION USED IS 0.34" (0.03') OF PRECIPITATION FOR ANY STORM. FIRST FLUSH RETENTION POND VOLUME = (0.03') x IMPERVIOUS SURFACE IN sq ft.

FIRST FLUSH VOLUME = 125 cf
THE WEST PONDING AREA WILL CARRY 43 cf OF THE FIRST FLUSH. THE EAST PONDING AREA WILL CARRY 82 cf OF THE FIRST FLUSH.

OFFSITE FLOW INFORMATION

OFFSITE FLOWS FROM ADJACENT PROPERTIES ARE NEGLIGIBLE.

THOMAS D. JOHNSTON, NEW MEXICO REGISTERED PROFESSIONAL ENGINEER NO. 17158
4/11/17
THOMAS D. JOHNSTON, NMPE NO. 17158

DRAINAGE AND GRADING PLAN

5619 CINDERCONE DRIVE NW RESIDENCE

TGC ENGINEERING INC.
330 LOUISIANA BLVD, NE
ALBUQUERQUE, NM 87108
(505) 266-7256
Fax: (505) 255-2887

SHEET NO. C1
DESIGN DATE: 4/11/2017
REVISION: N/A
CITY PROJECT NO: E10/