

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

November 15, 2018

Thomas D. Johnson, PE
TGC Engineering Inc.
330 Louisiana Blvd NE
Albuquerque, NM 87108

**RE: Sonic @ Central and 64th
 6420 Central Ave SW
 Request for Certificate of Occupancy – Permanent
 Engineer's Certification – Accepted
 Grading Plan Stamp Date: 6/26/17
 Certification Dated: 11/12/18
 Hydrology File: K11D047**

PO Box 1293

Dear Mr. Johnston:

Based on the submittal received on 11/13/18, the Engineer's Certification approved in support of Certificate of Occupancy (Permanent) by Hydrology.

Albuquerque

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

NM 87103

Sincerely,

www.cabq.gov

Dana Peterson, P.E.
Senior Engineer, Planning Dept.
Development Review Services

C: Email Fox, Debi; Tena, Victoria; Sandoval, Darlene; Costilla, Michelle



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

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

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

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

Other Contact: _____ **Contact:** _____

Address: _____

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

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes _____ No

DEPARTMENT: _____ TRAFFIC/TRANSPORTATION _____ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- _____ ENGINEER/ARCHITECT CERTIFICATION
- _____ PAD CERTIFICATION
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- _____ DRAINAGE MASTER PLAN
- _____ DRAINAGE REPORT
- _____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- _____ ELEVATION CERTIFICATE
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT (TCL)
- _____ TRAFFIC IMPACT STUDY (TIS)
- _____ OTHER (SPECIFY) _____
- _____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

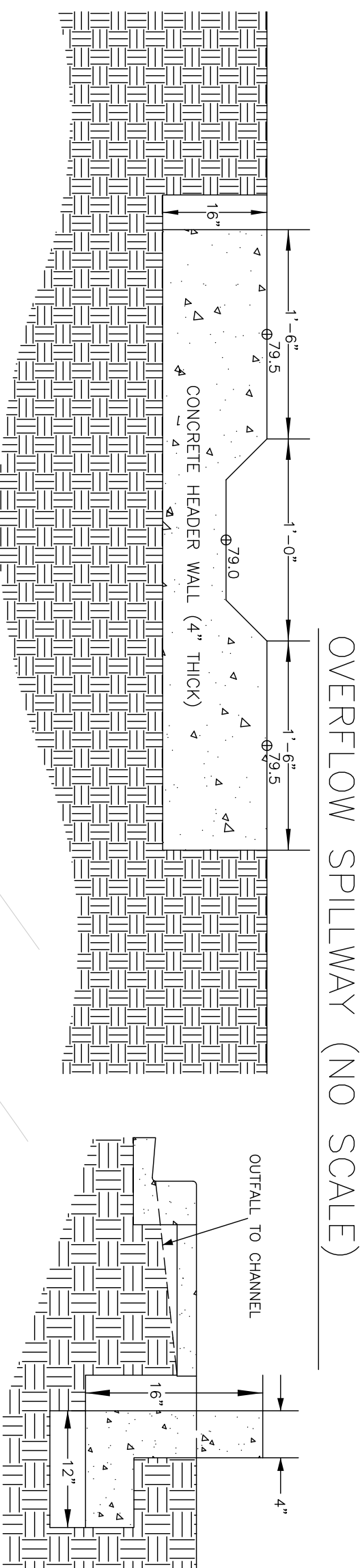
- _____ BUILDING PERMIT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY
- _____ PRELIMINARY PLAT APPROVAL
- _____ SITE PLAN FOR SUB'D APPROVAL
- _____ SITE PLAN FOR BLDG. PERMIT APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ SIA/ RELEASE OF FINANCIAL GUARANTEE
- _____ FOUNDATION PERMIT APPROVAL
- _____ GRADING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

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

[illegible]

<input checked="" type="checkbox"/> WM	WATER METER	<input checked="" type="checkbox"/> SPOT ELEVATION
<input checked="" type="checkbox"/> FH	FIRE HYDRANT	<input checked="" type="checkbox"/> ELEVATIONS ARE TO
<input checked="" type="checkbox"/> LP	LIGHT POLE	<input checked="" type="checkbox"/> ANNOTATED SPOTS
<input type="checkbox"/> EM	ELECTRIC METER	<input type="checkbox"/> TOP OF CONCRETE
<input type="checkbox"/> CM	GAS METER	<input type="checkbox"/> EC
<input type="checkbox"/> TEL	TELEPHONE RISER	<input type="checkbox"/> TA
<input type="checkbox"/> ELEC	ELECTRIC VAULT	<input type="checkbox"/> TOP OF CONCRETE
<input type="checkbox"/> XFM	ELECTRIC TRANSFORMER	<input type="checkbox"/> FLOWLINE

56 — PROPOSED CONTOURS @ 0.5' INTERVALS

58.0 — PROPOSED SPOT ELEVATION

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 0329 H.

TBM: #4 REBAR AT NORTHEAST CORNER OF PROPERTY MSL: 5080.40

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 MAINTENANCE OF SEDIMENT ONTO ADJACENT 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.

- ROOF DRAINAGE CONVEYED TO PAVED PARKING LOT VIA DOWNSPOUTS (SEE ROOF PLAN,
- ALL ELEVATIONS GIVEN ARE TO TOP OF PROPOSED GRADE

- 1 COBBLE RUN DOWN
- 2 EXISTING PORTION OF CONCRETE CHANNEL TO BE REMOVED
- 3 18" CURB DRAIN OPENING
- 4 0.87' WATER BLOCK
- 5 INSTALL OVERTLOW SPILLWAY (SEE DETAIL)
- 6 CONCRETE RUNDOWN
- 7 TRASH BIN ENCLOSURES – CENTER DRAIN TO DISCHARGE TO SANITARY SEWER

REVISION 1: ADD CONCRETE RUNDOWN TO SOUTHEASTERLY POND

THE DRAINAGE CONCEPT FOR THIS SITE IS TO RETAIN THE FIRST FLUSH OF PRECIPITATION WITHIN THE LANDSCAPED AREAS. ADDITIONAL PRECIPITATION SHALL FREE DISCHARGE THE EXCESS RUNOFF FROM IMPERVIOUS SURFACES VIA THE EXISTING CONCRETE CHANNEL TO 64TH STREET SW, AS IT HAS OCCURRED HISTORICALLY.

DRAINAGE DATA									
THIS SITE LIES WITHIN PRECIPITATION ZONE 1									
Condition	Return Period	Treatment	Area	Precip.	Runoff	Volume	Rate		
	Table 4	Type	(sq. ft.)	(in.)	Table A-9 (cfs/ac)	(cu. ft.)	(cfs)		
EXISTING	100								
	A	0	0.44	1.29	0.0	0.0	0.0		
	B	0	0.67	2.03	0.0	0.0	0.0		
	C	21,759	0.99	2.87	2,795.1	1.43	1,795.1		
	D	20,157	1.97	4.37	3,908.1	2.02	1,43		
EXISTING	10								
	A	0	0.08	0.24	0.0	0.0	0.0		
	B	0	0.22	0.76	0.0	0.0	0.0		
	C	21,759	0.44	1.49	757.6	0.74	757.6		
	D	20,157	1.24	2.89	2,082.9	1.34	1,34		
DEVELOPED	100								
	A	0	0.44	1.29	0.0	0.0	0.0		
	B	0	0.67	2.03	0.0	0.0	0.0		
	C	12,637	0.99	2.87	1,642.6	0.83	0.83		
	D	29,279	1.97	4.37	4,066.6	2.04	2.04		
DEVELOPED	10								
	A	0	0.08	0.24	0.0	0.0	0.0		
	B	0	0.22	0.76	0.0	0.0	0.0		
	C	12,637	0.44	1.49	463.4	0.43	0.43		
	D	29,279	1.24	2.89	3,025.5	1.94	1.94		
TOTAL (EXT)	100								
	10				5,104.2	2.5	2,5		
	100				2,890.7	3.1	3.1		
TOTAL (DEV)	10				3,949.2	2.8	2.8		
	100				3,489.9	2.4	2.4		

THE FIRST FLUSH PRECIPITATION USED IS 0.34" (0.03") OF PRECIPITATION FOR ANY STORM. FIRST FLUSH RETENTION POND VOLUME = 0.03"XIMPERVIOUS SURFACE IN SF. FIRST FLUSH VOLUME = 830 cf. THE NORTHWEST PONDING AREA WILL CARRY THE FIRST FLUSH. PONDING VOLUME = 2548 cf.

Target Description	
Target File	c:\thesat\investigation.m
Witnessset	EXISTING CHANNEL
Flow Element	Rectangular Channel
Method	Mannings formula
Save For	Discharge
<hr/>	
Input Data	
Mannings Coefficient	0.013
Channel Slope	0.005/100 ft
Depth	0.60 ft
Section Width	1.77 ft
<hr/>	
Results	
Discharge	6.66 cfs
Flow Area	1.42 ft ²
Wetted Perimeter	3.37 ft
Top Width	1.77 ft
Critical Depth	0.91 ft
Critical Slope	0.000515 ft/ft
Velocity	6.12 ft/s
Specific Head	0.58 ft
Specific Energy	1.38 ft
Friction Number	1.21
Flow is subcritical	
<hr/>	

TGC ENGINEERING, INC.
1609 2nd STREET, NW
ALBUQUERQUE, NM 87102
(505) 266-7256
Fax: (505) 255-2887


SHEET NO. C1

DESIGN DATE: 3/26/2018


REVISION: 11/12/2018

CITY PROJECT NO: K11/DO47

I, THOMAS D. JOHNSON, NEW MEXICO REGISTERED PROFESSIONAL ENGINEER NO. 171968, DO HEREBY CERTIFY THAT I INSPECTED THIS BRIDGE ON 11/11/2015 AND FOUND NO EVIDENCE OF DEFECTS OR BEING IN NEED OF REPAIR. THERE HAS BEEN NO RECENT ALTERATION OF GRADE OR EVIDENCE OF GRADING OPERATIONS ON THIS SITE.



THOMAS D. JOHNSON, NMPE NO. 171968



6/26/18