# CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



June 22, 2018

Jackie McDowell McDowell Engineering, Inc. 7820 Beverly Hills Ave. NE Albuquerque, NM 87122

**RE:** 4023 Silvery Minnow Place NW

**Grading and Drainage Plan** 

**Stamp Date: 06/11/18** 

Hydrology File: G11D014D6

Dear Ms. McDowell:

Based upon the information provided in your submittal received 06/19/2018, the Grading Plan is

approved for Building Permit.

Albuquerque Once the grading is complete, a pad certification will be required prior to release of Building

Permit. Please attach a copy of this approved plan in the construction sets for Building Permit

processing.

PO Box1293

NM 87103

www.cabq.gov

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer

Certification per the DPM checklist will be required and a formal Elevation Certificate needs to

be submitted to Hydrology.

Please provide a Private Facility Drainage Covenant per Chapter 17 of the DPM for first flush pond prior to Permanent Release of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be required.

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

Renée C. Brissette

Planning Department



Project Title:

# City of Albuquerque

#### Planning Department

# Development & Building Services Division

#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET

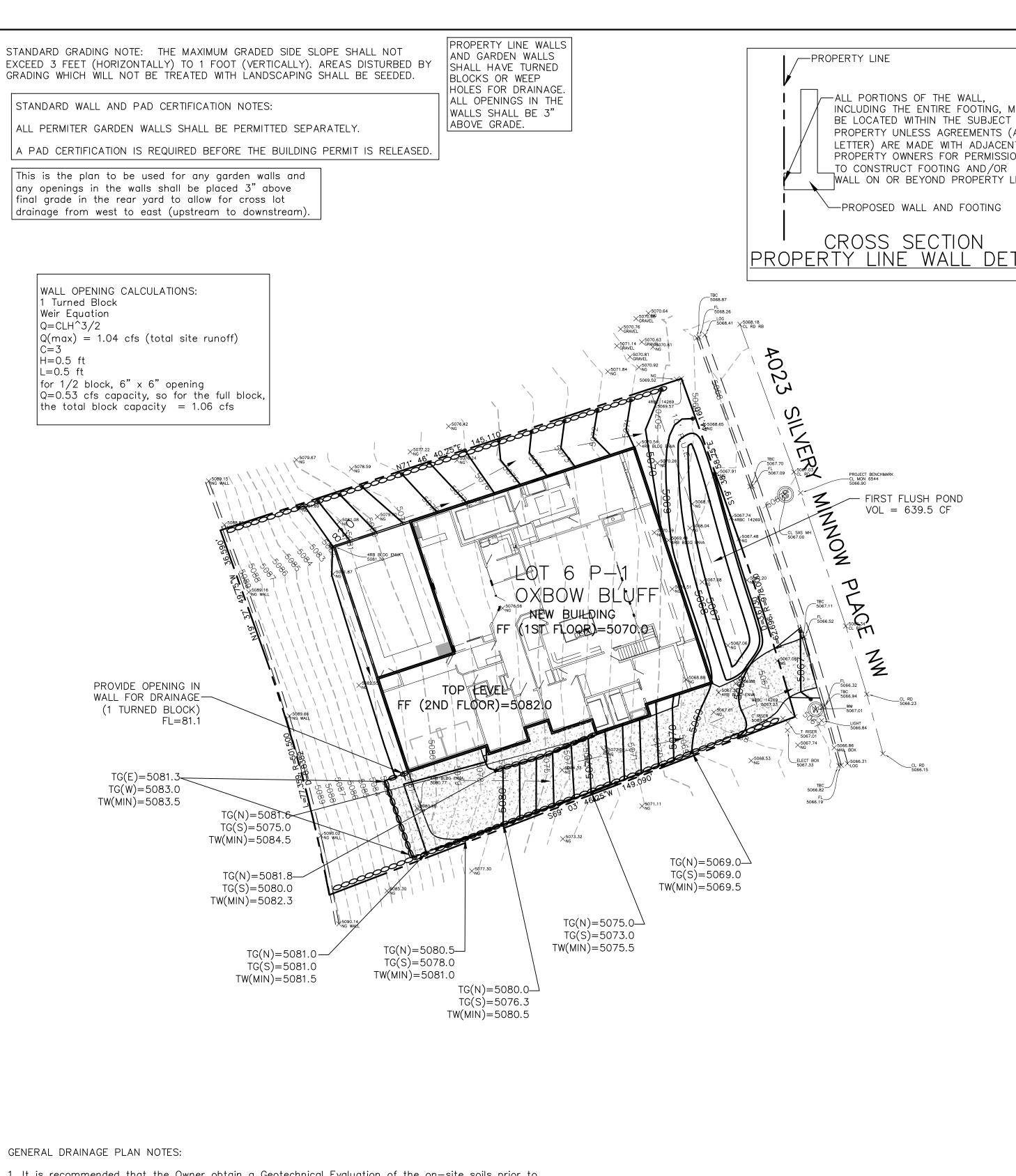
(REV 02/2013)

Building Permit #: City Drainage #:

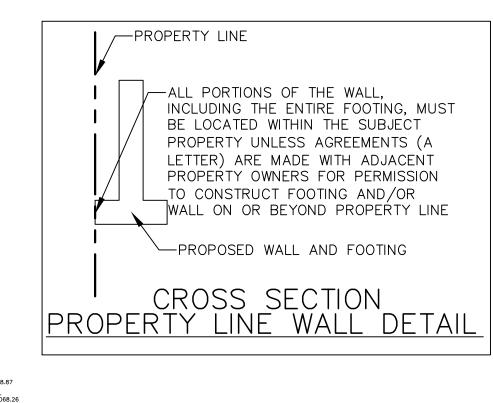
DRB#: EPC#:	Work Order#:
Legal Description:	
City Address:	
Engineering Firm:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Owner:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Architect:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Surveyor:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Contractor:	Contact:
Address:	
Phone#: Fax#:	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMIT APPROVAL
GRADING PLAN	SECTOR PLAN APPROVAL
EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPANCY (PERM)
CLOMR/LOMR	CERTIFICATE OF OCCUPANCY (TCL TEMP)
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT APPROVAL
ENGINEER'S CERT (TCL)	BUILDING PERMIT APPROVAL
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROVAL SO-19 APPROVAL
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVAL ESC PERMIT APPROVAL
SO-19	WORK ORDER APPROVAL ESC CERT. ACCEPTANCE
OTHER (SPECIFY) PAD CERTIFCATION	GRADING CERTIFICATION  OTHER (SPECIFY)  PAD CERTIFCATION
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes No Copy Provided
DATE SUBMITTED:	By:
D	Di-t1-11 h

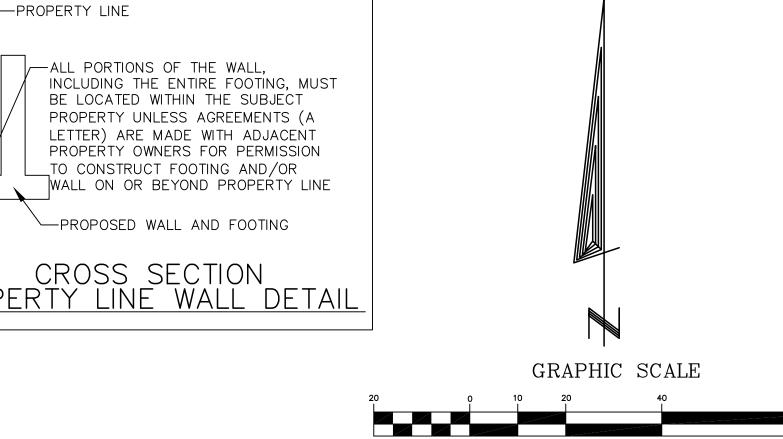
Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- 2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
- 3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development



- 1. It is recommended that the Owner obtain a Geotechnical Evaluation of the on—site soils prior to foundation/structural design.
- 2. This plan recommends positive drainage away from all structures to prohibit ponding of runoff adjacent to the structure. Future alterations of the grades next to the structures are not recommended.
- 3. Irrigation within 10 feet of any proposed structure is not recommended. Irrigation water adjacent to the structures could cause settlement.
- 4. This plan establishes on—site drainage and assumes no responsibility for subsurface analysis, foundation or structural design, or utility design.
- 5. Local codes may require all footings to be placed in natural undisturbed soil. If the contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer is recommended.
- 6. It is recommended that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
- 7. The property boundary shown on this plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey.
- 8. All work shall be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction with updates.
- 9. All work on this project shall be performed in accordance with applicable Federal, State, and Local laws, rules, and regulations concerning construction safety and health.
- 10. Contactor shall ensure that no site soils/sediment or silt enters the righ-of-ways during construction.
- 11. Areas disturbed due to construction shall be restored per City of Albuquerque Spec. 1012 native seed mix.







PANEL #114H

FEMA FLOODWAY MAP

VICINITY MAP ZONE ATLAS F-11

DRAINAGE PLAN

SCOPE:

Pursuant to the latest City of Albuquerque and Bernalillo County Ordinances, the Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site. A single family home is proposed for the site with associated parking, access, landscaping, and utility improvements.

#### **EXISTING CONDITIONS:**

Presently, the 0.40 acre site is undeveloped. The site is bounded on the north, west and south by private property, and on the east by Silvery Minnow Pl. NW. As shown on FEMA Panel #114H, the site is not located in a 100 year flood plain.

#### PROPOSED CONDITIONS:

The site is located within the Oxbow Bluff Drainage Master Plan G11/D14. The plan calls for free discharge based upon 42% impervious and 58% native. The allowable volume has been checked against the first flush volume and the higher of the two volumes is used for sizing the pond. Current COA Drainage Ordinance requires that ponds must be provided to handle the First Flush volume which has been calculated and is included on this plan. As shown by the plan, the building is located in the center of the lot. No off—site flows enter the site due to existing grades on adjacent lots. On site flows will drain around the structure, and flow to the east to the first flush retention pond located east of the structure. All roof drainage will discharge from the roof to the lot and be directed around the structure to the drainage paths and pond.

Supplemental calculations are shown as part of this Grading and Drainage plan.

# CALCULATIONS:

The calculations shown hereon define the 100 year—6 hour design storm falling within the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, New Mexico in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority.

# PROPERTY ADDRESS:

# 4023 Silvery Minnow Pl. NW

# TOPOGRAPHY:

Topographic information provided by David Acosta, PS dated May, 2018.

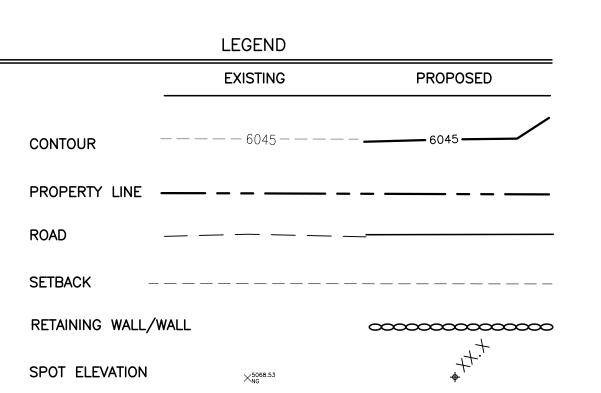
# ZONE 1

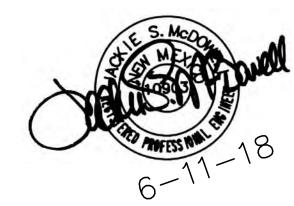
Areas: (acres)			POND VOLUME PROVIDED:		
	Allowed	Proposed	ELEV. AREA VOL. (CF)		
Treatment A	0.23	0.00	5068 <b>86</b> 5		
Treatment B	0.00	0.19	639.5		
Treatment C	0.00	0.00	5067 414		
Treatment D	0.17	0.21			
Total (acres) =	0.40	0.40			

	,	,	,		2 year Allowed	2 year Proposed
Volume (acre-feet) =	0.036	0.045	0.019	0.025	0.010	0.013
Volume (cubic feet) =	1,583	<b>1</b> ,964	832	1,097	444	556

REQUIRED VOLUME FROM PROPOSED LESS ALLOWED = 1964 - 1583 = 381 CF FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)\*(0.40 AC \* 43560 SF/AC) = 494 CF - USE 494 CF

Total Q(p), cfs:							
	1	100 year	100 year	10 year	10 year	2 year	2 year
	A	Allowed	Proposed	Allowed	Proposed	Allowed	Proposed
		Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
Treatment A		0.30	0.00	0.06	0.00	0.00	0.00
Treatment B		0.00	0.39	0.00	0.14	0.00	0.01
Treatment C		0.00	0.00	0.00	0.00	0.00	0.00
Treatment D		0.74	0.92	0.49	0.61	0.29	0.35
Tot	al Q (cfs) =	1.04	1.30	0.55	0.75	0.29	0.36





# ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on May 7, 2018 and as of that date it appeared that no filling, grading, or excavation had occurred thereon since completion of the topographic survey used to prepare this plan.

4023 SILVERY MINNOW PL. NW, ALBUQUERQUE, NM 87120

CITY OF ALBUQUERQUE, BERNALILLO COUNTY NEW MEXICO LOT 6-P-1 PLAT OF OXBOW BLUFF SUBDIVISION

CANDELARIA – ZENTELLA– GRADING & DRAINAGE PLAN

TELE: 505-828-2430 • FAX: 505-821-4857 |Checked JSM resigned JSM Drawn STAFF MAY,2018 CANO118L