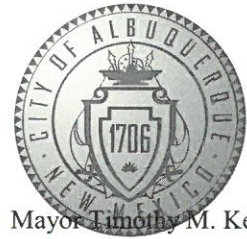


CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

May 1, 2018

Jake Bordenave, P.E.
Bordenave Designs
PO Box 91194
Albuquerque, New Mexico 87109

RE: **Worthan Residence**
7908 Shiprock Ct. NW
Lot 21 Block 7 Volcano Cliffs Sub. SAD 227
Grading and Drainage Plan
Engineers Stamp Date 4/20/18 (E10D046)

Dear Mr. Bordenave,

Based upon the information provided in your submittal received 4/30/2018, the above referenced Grading and Drainage Plan cannot be approved for Grading Permit until the following comments are addressed.

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

- Provide openings in the block fence 3" above grade.
- Remove rip rap outside of property line or provide a letter or Email from Open Space giving permission for the rip rap and flows to enter into their national park.
- Provide a cross section of the block wall showing the lot line and the footing line. If the footing is encroaching into abutting properties provide an encroachment agreement or place the entire footing on the inside of the property line.
- Provide a note stating that a permit is required for all garden walls or fencing and this is the plan to be used for the permit.

If you have any questions please contact me at 924-3986 or Rudy Rael at 924-3977

Sincerely,

James D. Hughes, P.E., P
Principal Engineer, Hydrology
Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2015)

Project Title: Worthing Residence Building Permit #: _____ Hydrology File #: _____

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

Legal Description: Lot 21, Block 7, Volcano Cliffs, Unit 5

City Address: 7908 Shiprock Ct, NW

Applicant: Bordenave Designs Contact: JAKE

Address: P.O. Box 91194, ALB, NM 87199

Phone#: 505-823-1344 Fax#: _____ E-mail: jake.bordenave@comcast.net

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) _____

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: 04/23/18 By: [Signature]

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

SHIPROCK CT. NW

FF 5321.00

PETROGLYPH NATIONAL PARK

5320

SCALE 1 INCH = 20 FEET

20 10 0 10 20 40 60

CONDITION	BASIN	STORM RETURN PERIOD	TREATMENT TYPE	TREATMENT AREA	EXCESS PRECIPITATION	PEAK RUNOFF	RUNOFF VOLUME	RUNOFF RATE
-	-	-	(table 4)	(table 8)	(table 9)	-	-	-
-	-	year	-	sq. ft.	in.	cfs/acre	cu. ft.	cfs
EXISTING	SITE	10	A	13500	0.08	0.24	90	0.07
			B	0	0.22	0.76	0	0.00
			C	0	0.44	1.49	0	0.00
			D	0	1.24	2.89	0	0.00
			TOTAL	13500			90	0.07
		100	A	13500	0.44	1.29	495	0.40
	B		0	0.67	2.03	0	0.00	
	C		0	0.99	2.87	0	0.00	
	D		0	1.97	4.37	0	0.00	
	TOTAL		13500			495	0.40	
	DEVELOPED SITE	10	A	0	0.08	0.24	0	0.00
			B	5616	0.22	0.76	103	0.10
			C	0	0.44	1.49	0	0.00
			D	7884	1.24	2.89	815	0.52
TOTAL			13500			918	0.62	
100			A	0	0.44	1.29	0	0.00
		B	5616	0.67	2.03	314	0.26	
		C	0	0.99	2.87	0	0.00	
		D	7884	1.97	4.37	1294	0.79	
		TOTAL	13500			1608	1.05	
A		100	B	1381	0.67	2.03	77	0.06
			D	2898	1.97	4.37	476	0.29
			TOTAL	4279			553	0.36
B		100	B	1476	0.67	2.03	82	0.07
			D	949	1.97	4.37	156	0.10
			TOTAL	2425			238	0.16
C		100	B	1707	0.67	2.03	95	0.08
			D	1966	1.97	4.37	323	0.20
	TOTAL		3673			418	0.28	
D	100	B	1052	0.67	2.03	59	0.05	
		D	2071	1.97	4.37	340	0.21	
		TOTAL	3123			399	0.26	

DRY STREAM

VARIES
8" MIN.

BASIN D
 REQ. VOLUME = $(2071)(0.44-0.10)/12$
 = 59 C.F.
 PROVIDED VOLUME; TOP 293 SF, BOTTOM 131 SF
 DEPTH 0.30 FT., VOLUME = 63 CF

The diagram is a site plan of a wastewater treatment plant. It features a central building complex with multiple interconnected structures, each containing internal details like rooms and corridors. Surrounding this central complex are four rectangular basins, labeled BASIN A, BASIN B, BASIN C, and BASIN D. BASIN A is located to the left of the central complex, BASIN B is to the top, BASIN C is to the right, and BASIN D is to the bottom. A curved line on the left side of the plan indicates a water body or a canal. A north arrow is positioned to the left of the plan, pointing upwards. Below the north arrow, the text "SCALE 1 INCH = 30 FEET" is written.

3' RADIUS

DRY STREAM

FLOW

TOP OF POND. SEE GRADING PLAN FOR ELEVATION

BOTTOM OF POND. SEE GRADING PLAN FOR ELEVATION

6" THICK STONE PAD. EXTENT AS SHOWN ON GRADING PLAN. SEE GRADATION IN DRY STREAM DETAIL, THIS SHEET. DO NOT PLACE STONE ON BANKS OR BOTTOM OF POND EXCEPT AS SHOWN.

1. NEW RESIDENCE
2. CONCRETE DRIVE.
3. CONCRETE PATIO/PORCH.
4. CONCRETE WALK.
5. 4'x4' CONCRETE A/C PAD.
6. CMU YARD WALL.
7. WROUGHT IRON FENCE.
8. 2-3" PVC PIPES THRU WALL FOR DRAINAGE.
9. DRY STREAM w/ EROSION CONTROL PAD. SEE DETAIL THIS SHEET
10. INSTALL 2-CMU's ON EDGE TO PROVIDE DRAINAGE THRU WALL. BOTTOM OF CELL OPENING AT ELEVATION 19.8 IN PONDS A AND B. BOTTOM OF CELL OPENING AT ELEVATION 20.1 IN PONDS C AND D.
11. WATER HARVESTING POND.

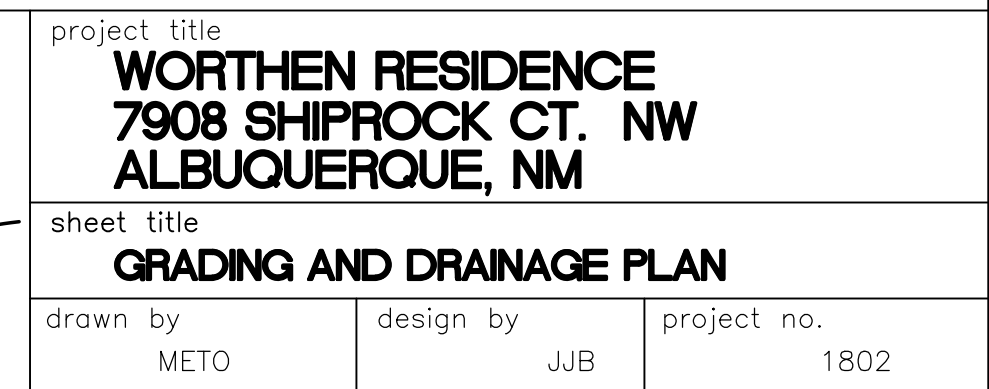
1. THE SITE IS PRESENTLY IN IT'S NATURAL STATE AND RELATIVELY FLAT AND ABUTS THE PETROGLYPH NATIONAL PARK. THE SITE IS APPROXIMATELY 250 FEET WEST OF THE ESCARPMENT.
2. THERE IS A FLOW INCREASE OF 0.55 AND 0.65 CFS FOR THE 10 YEAR AND 100 YEAR STORMS RESPECTIVELY AND THE 6 HOUR RUNOFF VOLUMES FOR THE 10 YEAR AND 100 YEAR STORM INCREASE BY 828 AND 1113 CUBIC FEET RESPECTIVELY. THERE ARE NO RUNOFF CONVEYANCE SYSTEMS IN THE AREA. THE SITE IS DESIGNED TO SELF CONTAIN THE STORM WATER GENERATED ONSITE BY THE 90th PERCENTILE STORM.
3. THE SITE IS LOCATED IN A 'ZONE X' PER FEMA FIRM MAP NO. 113-G, DATED SEPTEMBER 26, 2008.
4. TOPO SURVEY DATA SHOWN ON THIS DRAWING WAS PREPARED BY HARRIS SURVEYING, INC. DATED MARCH, 2018.

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT THE NM811 FOR LOCATION OF EXISTING UTILITIES. DIAL 811 TO SUBMIT REQUEST OR 505-260-1165 WITH QUESTIONS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO PUBLIC RIGHT-OF-WAY OR PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY THE CONSTRUCTION OF TEMPORARY SOIL BERMS OR SILT FENCES AT PROPERTY LINES AND WETTING SOIL TO PREVENT IT FROM BLOWING.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING TRACKED DOWN THE STREET.

LOT 21, BLOCK 7, VOLCANO CLIFFS SUBDIVISION, UNIT 5

ACS 22-E10		ELEVATION 5318.435 (NAVD 1988)	
no.	date	remarks	by
REVISIONS			



 BORDENAVE DESIGNS P.O. BOX 91194, ALBUQUERQUE, NM 87199 ph (505)823-1344 cell (505)480-6812 fax(505)821-9105 email jakebordenave@comcast.net	sheet
	of

The diagram illustrates a cross-section of a stream bed construction. It shows a gravel bed on top of filter fabric, which is placed on the finish grade of adjacent earth. The gravel bed is divided into three sections: two side sections labeled 'VARIES 8" MIN.' and a central section labeled 'VARIES "BOTTOM WIDTH" SHOWN ON PLAN MINIMUM'. The gravel size is indicated as $\frac{3}{8}$ " and $1\frac{1}{2}$ ".

PERCENT BY VOL.	PERCENT BY VOL.
> 6"	0-5
3"-6"	40-60
1"-3"	10-30
$3/8$ "-1"	10-15
< $3/8$ "	0-5

CONSTRUCTION NOTES:
 BOTTOM AND BANK WIDTHS SHALL VARY TO SIMULATE A NATURAL STREAM. STONES GREATER THAN 6" SHALL BE LIMITED TO BANK AREA.

TBM	TEMPORARY BENCHMARK	PP	POWER POLE
FF	FINISH FLOOR	GW	GUY WIRE
FG	FINISH GRADE	PED	ELEC. OR TEL. PEDESTAL
FL	FLOWLINE	RD OR C ▶	ROOF DRAIN OR CANALE
TA	TOP OF ASPHALT		
TC	TOP OF CONCRETE SLAB		
BC	TOP/BACK OF CURB		
TP	TOP OF EARTH PAD		
TS	TOP OF SIDEWALK		
TW	TOP OF WALL		
FH	FIRE HYDRANT		FEMA FLOODPLAIN BOUNDARY
WM	WATER METER		DRAINAGE BASIN BOUNDARY
WV	WATER VALVE		EROSION SETBACK LINE
MH	MANHOLE		EXISTING CONTOUR
CB	CATCH BASIN GRATE		PROPOSED CONTOUR
GM	GAS METER	XX.XX	EXISTING SPOT ELEVATION
GV	GAS VALVE	XX.XX	PROPOSED SPOT ELEVATION
LP	LIGHT POLE	XX.XX	RECORD SPOT ELEVATION