

### PROPOSED CONDITIONS

THE SITE IS COVERED BY THE SAD 228 DRAINAGE MANAGEMENT PLAN FOR UNIT 19. HOWEVER, THE LACK OF DOWNSTREAM DRAINAGE EASEMENTS HAVE DICTATED THE RESTRICTION OF FLOWS TO HISTORIC LEVELS.

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q <sup>100</sup> (cfs)	V <sup>100-24</sup> (acft)
		A	B	C	D			
SITE	0.33	100	0	0	0	1.19	0.40	0.011

HYDROLOGIC DATA – PROPOSED								
BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q <sup>100</sup> (cfs)	V <sup>100-24</sup> (acft)
		A	B	C	D			
SITE	0.33	0	32	33	35	2.88	0.96	0.035

BASINS	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE				YIELD (cfs/ac)	Q <sup>100</sup> (cfs)	V <sup>100-24</sup> (acft)
		A	B	C	D			
SITE	0.33	0	32	33	35	2.88	0.96	0.035

LOT DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

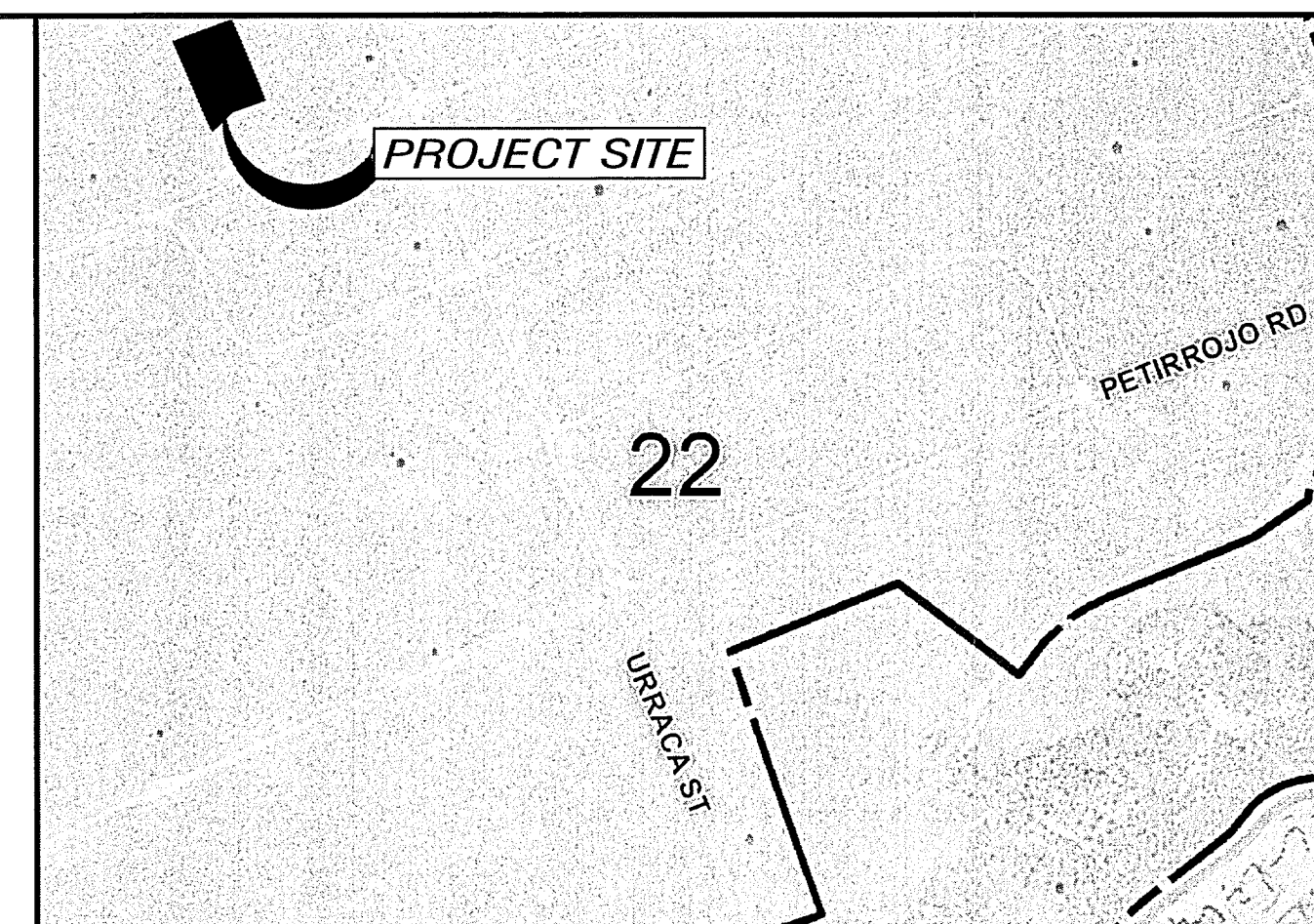
LOT DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING FIRST FLUSH RUNOFF RETENTION ON THE LOT IMMEDIATELY PRIOR TO DISCHARGE. THE VOLUME SHALL BE EQUAL TO: ROOF AREA \* (0.44-0.10)/12 IN CUBIC FEET.

ROOF AREA = 2751 SQ.FT.

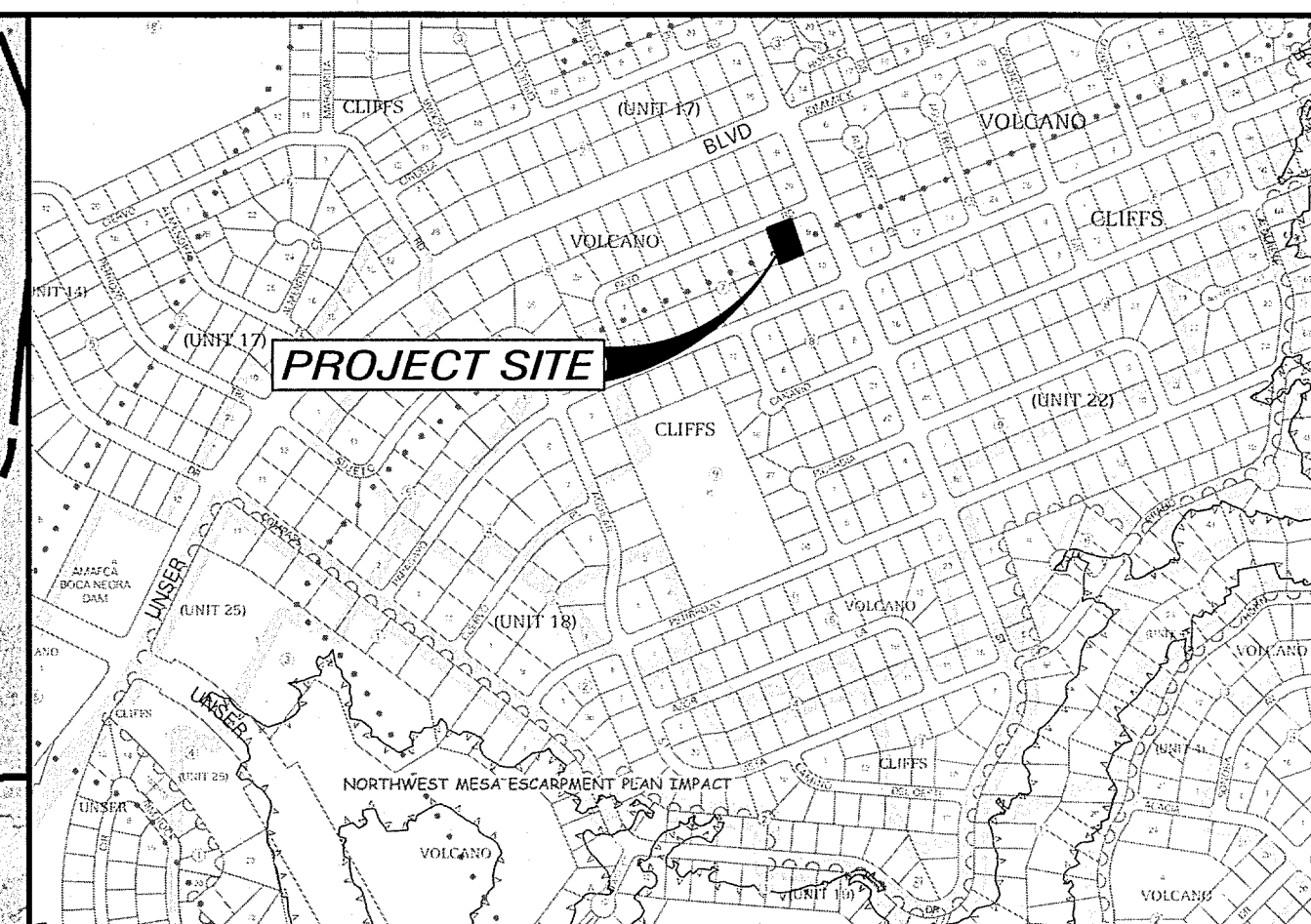
REQUIRED VOLUME =  $2751 * (0.44 - 0.10) / 12 = 78 \text{ CU.FT.}$   
VOLUME PROVIDED = 138 CU.FT.

- MAX STORAGE (100-YR) = 0.012 AC-FT
- MAX DISCHARGE (100-YR) = 0.40 CFS (0.40 CFS ALLOWABLE)
- MAXIMUM WATER SURFACE ELEVATION (100-YR) = 5342.18

**PATO ROAD**  
(50' R/W)



FIRM MAP NO. 35001C0112G



VICINITY MAP F-17-Z

**GENERAL NOTES:**

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, UPDATE NO. 8.

2. THE EROSION PROTECTION SPECIFIED ON THIS PLAN IS THE MINIMUM RECOMMENDED. THE OWNER IS ENCOURAGED TO INCORPORATE EROSION RESISTANT LANDSCAPING ON AREAS WHERE EROSION MAY OCCUR SUCH AS SLOPES AND SWALES. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL FEATURES NECESSARY TO PRESERVE THE DESIGN INTENT OF THE GRADING PLAN.

3. THE DRAINAGE INFRASTRUCTURE SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE PROPERTY OWNER.

4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD MUST BE RESEDED OR LANDSCAPED

5. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, (260-1990) FOR LOCATION OF EXISTING UTILITIES.

6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING PAVEMENT. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.

## NOTE

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PROTECT ANY AND ALL UTILITY LINES. THIS CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

## NOTE

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

**NOTE**

**NOTE**  
THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GND ENGINEERING, LLC. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.

**EROSION CONTROL NOTES**









1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (QTY) ACCEPTANCE OF ANY PROJECT.

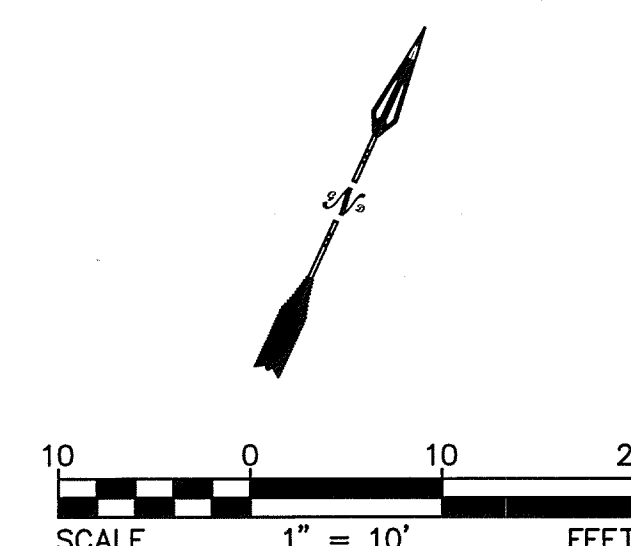
### LEGAL DESCRIPTION

**LEGAL DESCRIPTION**  
**LOT 8, BLOCK 7**  
**VOLCANO CLIFFS UNIT 18**  
**CITY OF ALBUQUERQUE BERNALILLO**  
**COUNTY, NEW MEXICO**

EARTHWORK (CY)	
CUT:	
COMPACTED FILL:	1,086
NET FILL:	1,086 CY

### LEGEND

- |   |                    |
|---|--------------------|
|  | FLOW ARROW         |
|  | PROPOSED ELEVATION |
|  | EXISTING ELEVATION |
|  | GRADE BREAK        |
|  | PROPOSED CONTOUR   |
|  | EXISTING CONTOUR   |
|  | PROPERTY LINE      |
|  | PROPOSED GRADE     |



ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
		NO.	BY	DATE			
					*ACS BM 14-K18A* LOCATED 3.7 MILES EAST OF DOWNTOWN		
					ALBUQUERQUE THE INTERSECTION OF LOMAS BLVD. AND SAN MATEO		
					BLVD. NE. THE BENCHMARK IS A 1 3/4" METALLIC DISK EPOXYED TO		
					THE TOP OF A CONCRETE STORM DRAIN INLET LOCATED IN THE		
					NORTHEAST QUADRANT OF THE INTERSECTION NEAR THE END CURB		
					RETURN, STAMPED "ACS BM 14-K18A".		
					X=1539935.478 Y=1487329.564 (NAD 83)		
					ELEV=5243.171 (NAVD 1988)		
					RECORDED BY: REH		
					DATE: 9/29/14		
					RECKED BY: REH		
					DATE: 9/29/14		
					RECKED BY: SEG		
					DATE: 9/29/14		

***GND, LLC***  
CONSULTING ENGINEERS

CITY OF ALBUQUERQUE  
MUNICIPAL DEVELOPMENT DEPARTMENT  
ENGINEERING DIVISION

6504 PATO RD Nw  
LOT 8, BLOCK 7, VOLCANO CLIFFS UNIT 18  
GRADING & DRAINAGE PLAN

LATEST DESIGN UPDATE	MONTH/DAY/YEAR	USER DEPARTMENT	
CITY PROJECT No.		ZONE MAP No. <b>D-10</b>	SHEET <b>1</b> OF <b>1</b>

# CITY OF ALBUQUERQUE



October 13, 2014

Sheldon Greer, P.E.  
GND, LLC.  
11032 Dreamday Way DR  
Albuquerque, New Mexico 87114

RE: **6504 Pato Rd. NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date 9/30/14 (D10-D003L8)**

Dear Mr. Greer,

Based upon the information provided in your submittal received 9/30/14, this plan is approved for Grading Permit and Building Permit.

Please attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required and full retention of runoff until Pond 5 and the infrastructure have been certified.

PO Box 1293

Albuquerque

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)

Sincerely,

Curtis Cherne, P.E.  
Principal Engineer, Hydrology  
Planning Department

RR/CC  
C: File