CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



August 2, 2017

David Soule, PE Rio Grande Engineering 1606 Central SE Suite 201 Albuquerque, NM 87106

Re: Lot 15 Block 4 Unit 22 SAD 228

6423 Canavio St. NW

Request Permanent C.O. - Accepted

Engineer's Stamp dated: 4-27-17 (D10D003D15)

Certification dated: 11-17-17

PO Box 1293

Dear Mr. Soule,

Based on the Certification received 11/29/2017, the site is acceptable for release of Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3986 or Rudy Rael at 924-3977.

NM 87103

Sincerely,

www.cabq.gov

James D. Hughes, F.E.

Principal Engineer, Hydrology

Planning Department

RR/JDH

C:

email



COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: ____

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#:				
Legal Description:				
City Address:				
Engineering Firm:		Cont	act:	
Address:				
Phone#:	Fax#:	E-ma	ail:	
Owner:		Cont	act:	
Address:				
Phone#:	Fax#:		ail:	
Architect:		Cont	Contact:	
Address:				
Phone#: Fax#:		E-ma	ail:	
Other Contact:		Cont	act:	
Address:				
Phone#:	Fax#:		ail:	
Check all that Apply: DEPARTMENT: HYDROLOGY/ DRAINAGE			ROVAL/ACCEPTANCE SOUGHT:	
TRAFFIC/ TRANSPORTATION			BUILDING PERMIT APPROVAL	
MS4/ EROSION & SEDIMENT CO	NTROL	CERTIFICATE OF	OCCUPANCY	
TYPE OF SUBMITTAL:		PRELIMINARY PI	PRELIMINARY PLAT APPROVAL	
ENGINEER/ ARCHITECT CERTIFICATION		SITE PLAN FOR SUB'D APPROVAL		
		SITE PLAN FOR BLDG. PERMIT APPROVAL		
CONCEPTUAL G & D PLAN		FINAL PLAT APP	FINAL PLAT APPROVAL	
GRADING PLAN		SIA/ RELEASE OF	SIA/ RELEASE OF FINANCIAL GUARANTEE	
DRAINAGE MASTER PLAN		FOUNDATION PE	FOUNDATION PERMIT APPROVAL	
DRAINAGE REPORT		GRADING PERMI	GRADING PERMIT APPROVAL	
CLOMR/LOMR		SO-19 APPROVAL	SO-19 APPROVAL	
		PAVING PERMIT		
TRAFFIC CIRCULATION LAYOU	Γ (TCL)		APPROVAL	
TRAFFIC CIRCULATION LAYOUT TRAFFIC IMPACT STUDY (TIS)	Γ (TCL)	PAVING PERMIT	APPROVAL ERTIFICATION	
		PAVING PERMIT GRADING/ PAD C	APPROVAL ERTIFICATION	
TRAFFIC IMPACT STUDY (TIS)	L PLAN (ESC)	PAVING PERMIT GRADING/ PAD C WORK ORDER APP	APPROVAL ERTIFICATION ROVAL	
TRAFFIC IMPACT STUDY (TIS) EROSION & SEDIMENT CONTRO	L PLAN (ESC)	PAVING PERMIT GRADING/ PAD C WORK ORDER APP CLOMR/LOMR PRE-DESIGN MEET	APPROVAL ERTIFICATION ROVAL ING	
TRAFFIC IMPACT STUDY (TIS) EROSION & SEDIMENT CONTRO	L PLAN (ESC)	PAVING PERMIT GRADING/ PAD C WORK ORDER APP CLOMR/LOMR PRE-DESIGN MEET	APPROVAL ERTIFICATION ROVAL	
TRAFFIC IMPACT STUDY (TIS) EROSION & SEDIMENT CONTRO OTHER (SPECIFY)	L PLAN (ESC)	PAVING PERMIT GRADING/ PAD C WORK ORDER APP CLOMR/LOMR PRE-DESIGN MEET OTHER (SPECIFY	APPROVAL ERTIFICATION ROVAL ING	

100-Year, 6-hr. Area | Area | Treatment A | Treatment B | Treatment C | Treatment D Weighted | Volume (acres) % (acres) % (acres) % (acres) % (acres) (ac-ft) (ac-ft) 19183.00 | 0.440 | 0% | 0 | 10% | 0.044 | 40% | 0.1762 | 50% | 0.220 | 1.448 | 0.053 13730.00 0.315 0% 0 10% 0.032 40% 0.1261 50% 0.158 1.448 0.038 13730.00 0.315 0% 0 30% 0.095 33% 0.104 37% 0.117 1.257 0.033 ALLOWED PROPOSED

Weighted E Method

Weighted $E = Ea^*Aa + Eb^*Ab + Ec^*Ac + Ed^*Ad / (Total Area)$

Volume = Weighted D * Total Area

total

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm-zone 1

Eb= 0.67 Qb= 2.03 Ec= 0.99 Qc= 2.87 Ed= 1.97 Qd= 4.37

ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME

REQUIRED WATER QUALITY

This site is within the SAD 228 Master Drainage plan boundari yard is too low to drain to the street and but ponding and swale drainage plan. We are ponding the water harvest volume general shallow water harvest ponds in excess of the drainage regulations. This

TURNED BLOCKS

Weir Equation:

wale thru wal

Q= 2.92 cfs C = 2.95 H = 0.5 ft

L = Length of weir $Q = 2.95 * .5 * ((0.5)^{(3/2)})$

Each opening is 6"x6"

Each block has two openings Each opening has .52 cfs capacity.

Therefore each turned block has 1.04 cfs capacity

I, DAVID SOULE HAVE PERSONALLY IN CERTIFY THE PAD HAS BEEN CONSTRUC

SUBSTANTIAL CONFORMANCE TO THE AF

E SITE. I HEREBY ADING PLAN DATED 4/27/17



I <u>David Soule</u>, NMPE 14522, of the firm <u>Rio Grande Engineering</u>, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 4/27/17. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The asbuilt survey was provided by THOMAS PATRICK NMPS 12651. The certification is submitted in support of a request for **PERMANENT CERTIFICATE OF OCCUPANCY**. The record information presented heron 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

BUILD FIRST FLUSH POND TOP= 5341.75 BOTTOM=5341.25 TURN 1 BLOCK@5342.00 PROPOSED VOLUME= 185 CU. FT. END 2' EARTHEN SWALE BEGIN 2' EARTHEN SWALE END 2' EARTHEN SWALE TURN 1 BLOCK@5342.00 BUILD WATER HARVESTING POND BEGIN 2' EARTHEN SWALE -TOP=5341.50 BOTTOM=5341.00 PROPOSED VOLUME=224 CU. FT. BENCHMARKS BUILD WATER HARVESTING POND TOP=5341.25/ BOTTOM=5341.00 PROPOSED VOLUME=212 CU, FT. TBM-POINT1078 N CL SAS MH (5345.05) HEW LOT OUTFALL@5341.19 CONSTRUCT 20' DRIVEWAY AND SIDEWALK PER COA STD DWG #2405, 2425, 2430

> 11-17-17 704 AS-BUILTS

TB = TOP OF BACK

PIM= BIM

EROSION CONTROL NOTES:

PERMIT PRIOR TO BEGINNING WORK.

RESPONSIBILITY OF THE CONTRACTOR.

INTO EXISTING RIGHT-OF-WAY.

CONSTRUCTION.

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE

3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS

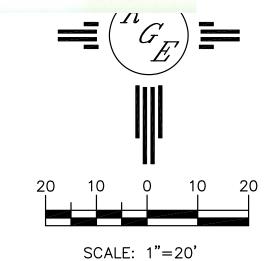
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT

WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

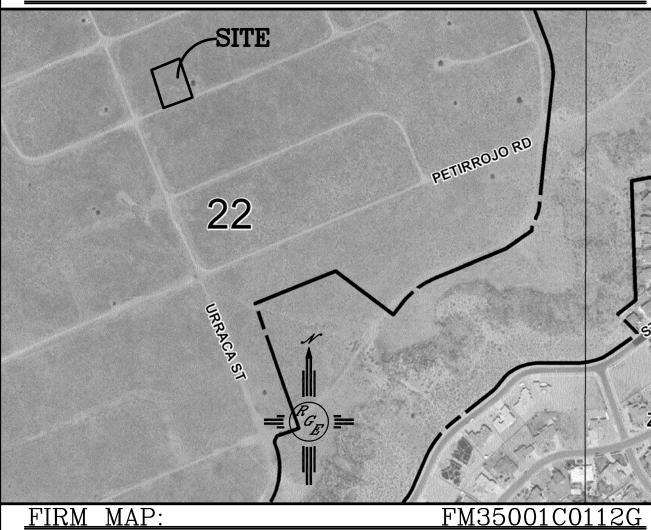
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING

ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE

5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND



THWEST MESA ESCARPMENT PLAN VIEW



LEGAL DESCRIPTION:
LOT 15 BLOCK 4 UNIT NO. 22 VOLCANO CLIFFS SUBDIVISION

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING

3. ANY PERIMETER WALLS MUST BE PERMITED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

4. A PAD CERTIFICATION IS REQUIRED PRIOR TO ISSUANCE OF BUILDING PERMIT

LEGEND

---- EXISTING CONTOUR ---- EXISTING INDEX CONTOUR — PROPOSED INDEX CONTOUR SLOPE TIE EXISTING SPOT ELEVATION × XXXX * XXXX PROPOSED SPOT ELEVATION ------ BOUNDARY CENTERLINE — RIGHT—OF—WAY PROPOSED CMU SCREEN WALL 0'-3' MAX RETAINAGE (DESIGN BY OTHERS)

6423 CANAVIO PLACE DRAWN ENGINEER'S BY WCWJ SEAL 4-26-17 GRADING AND DRAINAGE PLAN 21731-LAYOUT-4-26-1 SHEET # Rio Grande Engineering

1606 CENTRAL AVENUE SE

JOB #

21731

4/27/17 ALBUQUERQUE, NM 87106 (505) 872-0999 DAVID SOULE

P.E. #14522

CAUTION: EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

