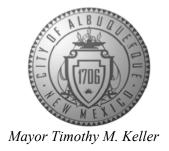
CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



December 18, 2020

Jackie McDowell, PE McDowell Engineering, Inc. 7820 Beverly Hills Ave NE Albuquerque, NM 87121

Re: Bernalillo County THV

Lot 5-14 Block 3 105 Texas St. SE

Request Permanent C.O. – Accepted

Engineer's Stamp Dated: 8-5-2019 (K19D138) Revised Engineer's Stamp Date: 12/30/2020

CO Certification dated: 12/17/2020

PO Box 1293 Ms. McDowell,

Based on the re-submittal received on 12/18/20 and site visit on 12/18/20, this certification is

approved in support of Permanent Certificate of Occupancy by Hydrology.

If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

NM 87103 Sincerely,

Albuquerque

www.cabq.gov Ernest Armijo, P.E.

Principal Engineer, Planning Dept. Development Review Services



City of Albuquerque

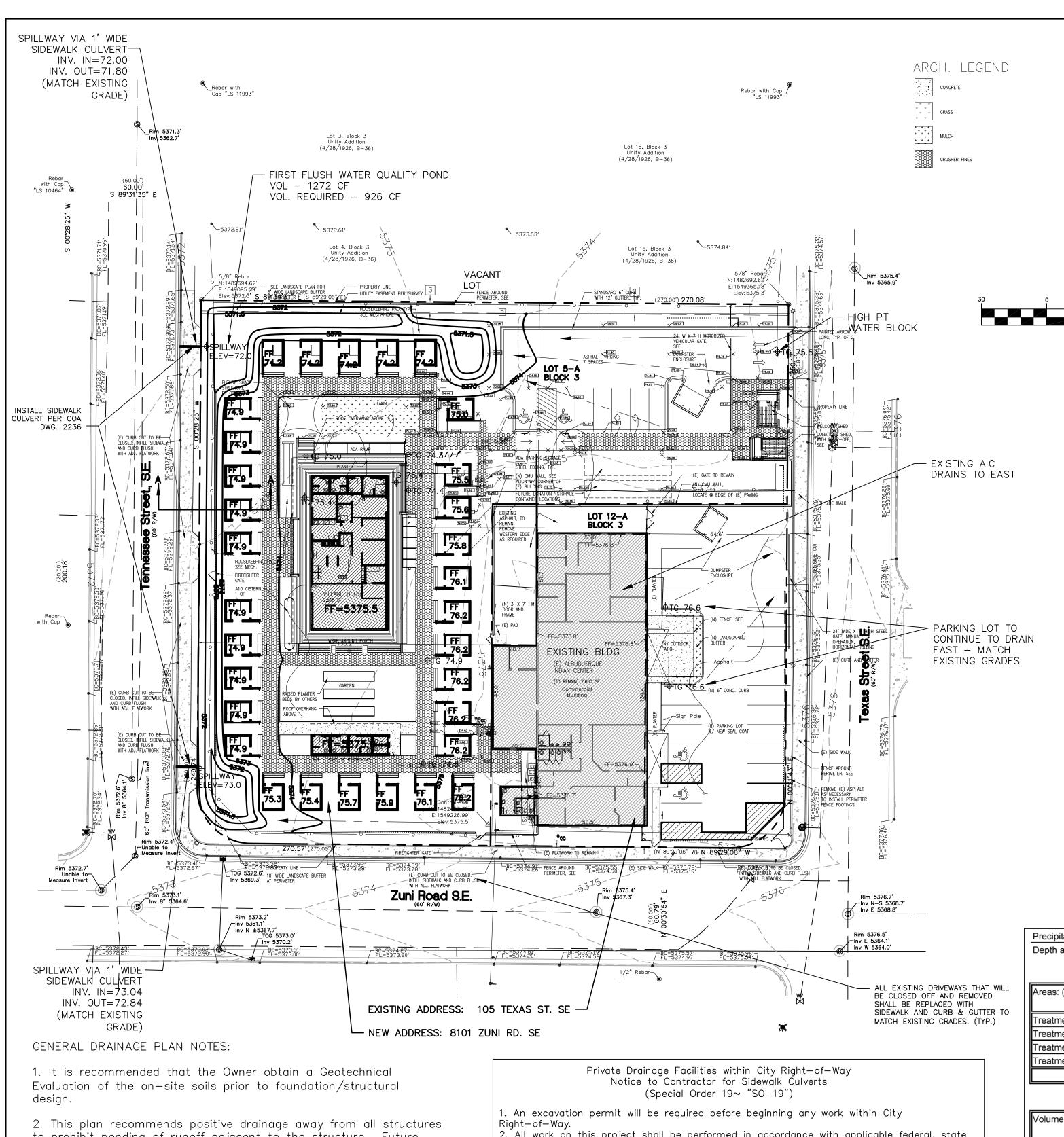
Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: BERNALILLO COUNTY THV		
DRB#:		
Legal Description: LOTS 5-14, BLOCK 3, UNITY	ADDITION, CITY OF ALBUQUERQUE, BERI	NALILLO COUNTY, NM
City Address: 105 TEXAS ST. SE, ALBUQUERQUE	, NM 87108	
		Contact: MARK BAKER
Address: 505 CENTRAL AVE. NW, SUITE E, ALBUC	QUERQUE, NM 87102	
Phone#: 505-254-4697	Fax#:	E-mail: baker@bakerad.com
Other Contact:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
TYPE OF DEVELOPMENT: PLAT (DRB SITE ADMIN SITE
DEPARTMENT TRANSPORTATION Check all that Apply:	X HYDROLOGY/DRAINAGE	VAL/ACCEPTANCE SOUGHT:
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?	X CERTIFICATION PRELIMINAR SITE PLAN FOUNDATION FOUNDATION GRADING PER SO-19 APPRO PAVING PER GRADING/PA WORK ORDER CLOMR/LOM FLOODPLAIN	SE OF FINANCIAL GUARANTEE IN PERMIT APPROVAL ERMIT APPROVAL OVAL IMIT APPROVAL AD CERTIFICATION R APPROVAL
DATE SUBMITTED: 11/30/2020	By: Alph RB	
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVED:	

FEE PAID:____



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.

STANDARD GRADING NOTE: THE MAXIMUM GRADED SIDE SLOPE SHALL NOT EXCEED 3 FEET HORIZONTALLY) TO 1 FOOT (VERTICALLY). AREAS DISTURBED BY GRADING WHICH WILL NOT BE TREATED WITH LANDSCAPING SHALL BE SEEDED.

2. 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. 3. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260—1990] for the location of existing utilities.

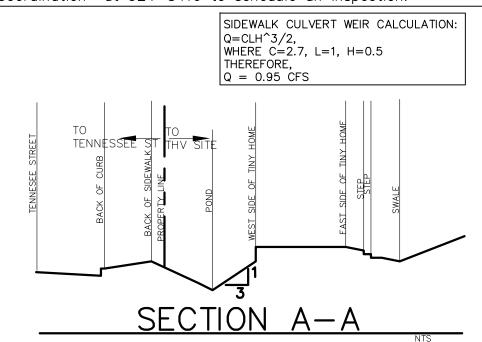
4. Prior to construction, the contractor shall excavate and verify the locations of all

conflict can be resolved with a minimum amount of delay. 5. Backfill compaction shall be according to the traffic/street use.

obstructions. Should a conflict exist, the contractor shall notify the engineer so that the

6. Maintenance of the facility shall be the responsibility of the owner of the property being 7. Work on arterial streets may be required on a 24—hour basis.

8. Contractor must contact Augie Armijo at (505) 857-8607 and Construction Coordination at 924-3416 to schedule an inspection.



DRAINAGE PLAN

GRAPHIC SCALE

(IN FEET) 1 inch = 30 ft.

SCOPE:

The Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site. Several small buildings and one larger building are proposed for the subject property, with associated access, landscaping, and utility improvements along with updates to the existing building and parking lot. The proposed grading shows that a first flush water quality pond will be provided around the perimeter of the westerly, downstream side of the property in accordance with the City of Albuquerque requirements.

EXISTING CONDITIONS:

Presently the 1.06 acre site is partially developed. The site is bounded on the north by private property, on the west by Tennessee Street SE, on the south by Zuni Road SE, and on the east by Texas Street SE. Site topography slopes from the southeast to the northwest.

As shown by Floodway Map No. 358H, dated, August 6, 2012, the property is not located in a 100-year flood plain.

PROPOSED CONDITIONS:

As shown by the plan, the structures are located throughout the property. On site flows will drain around the structures via swales/slopes and sheet flow, and flow to the west, and north to existing drainage paths. A First Flush Water Quality pond is included to provide the required volume of ponding for the Type D, Impervious, land treatments.

Calculations are shown on the plan.

CALCULATIONS:

The calculations shown hereon and 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:

8101 Zuni Road SE

TOPOGRAPHY:

Topographic information provided by CSI—Cartesian Surveys Inc. dated May 2019.

Precipitation Zone = 3 Depth at 100-year, 6-hour storm: (Table A-2) P = 2.60 inches POND VOLUME PROVIDED: Areas: (acres) ELEV AREA VOL 0.00 3592 Treatment A 5372 0.31 Treatment B 0.00 1272 Treatment C 1.06 5371.5 1496 Treatment D 0.00 TOTAL 1272 0.75 Total (acres) = 1.06

F			1 ' 1	10 year Existing	I ' I	2 year Existing	2 year Proposed
ľ	Volume (acre-feet) =					_	
	Volume (cubic feet) =	4,964	7,460	2,386	4,489	770	2,491

FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)*(0.75 AC * 43560 SF/AC) = 926 CF

100 year	100 year	10 year	10 year	2 year	2 year
Existing	Proposed	Existing	Proposed	Existing	Proposed
Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.81	0.00	0.37	0.00	0.07
3.66	0.00	2.12	0.00	0.83	0.00
0.00	3.77	0.00	2.54	0.00	1.53
3.66	4.57	2.12	2.91	0.83	1.60
	Existing Q(p)*A 0.00 0.00 3.66 0.00	Existing Proposed Q(p)*A Q(p)*A 0.00 0.00 0.81 3.66 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Existing Q(p)*A Proposed Q(p)*A Existing Q(p)*A 0.00 0.00 0.00 0.00 0.81 0.00 3.66 0.00 2.12 0.00 3.77 0.00	Existing Q(p)*A Proposed Q(p)*A Existing Q(p)*A Proposed Q(p)*A 0.00 0.00 0.00 0.00 0.00 0.81 0.00 0.37 3.66 0.00 2.12 0.00 0.00 3.77 0.00 2.54	Existing Q(p)*A Proposed Q(p)*A Existing Q(p)*A Proposed Q(p)*A Existing Q(p)*A 0.00 0.00 0.00 0.00 0.00 0.00 0.81 0.00 0.37 0.00 3.66 0.00 2.12 0.00 0.83 0.00 3.77 0.00 2.54 0.00

EROSION CONTROL PLAN:

CONTRACTOR SHALL NOT ALLOW ANY DEBRIS TO ENTER CITY RIGHT-OF-WAY OR ADJACENT PROPERTIES BY INSTALLING SILT FENCING OAE TO ACHIEVE THIS REQUIREMENT. THIS PLAN SHALL BE SUBMITTED TO THE STORM WATER QUALITY ENGINEER (DOUGH HUGHES, PE, jhughes@cabq.gov, 924-3420) 14 DAYS PRIOR TO ANY EARTH DISTURBANCE ALONG WITH THE OWNER'S REQUIRED CERTIFIED NOTICE OF INTENT (NOI) SINCE THE SITE IS OVER 1 ACRE.

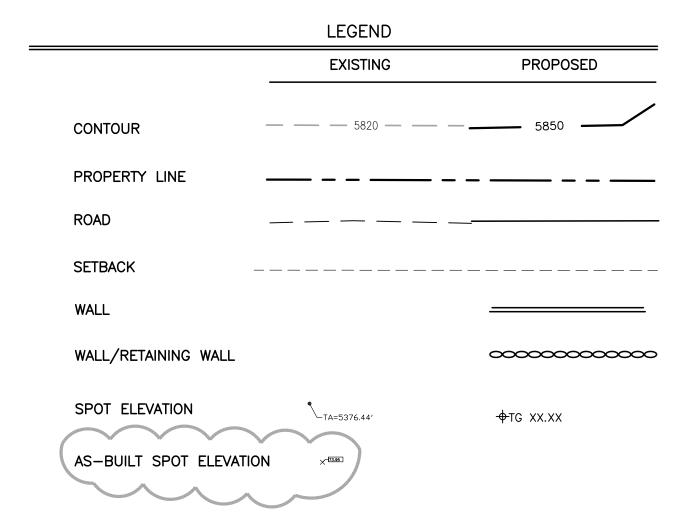


VICINITY MAP

1. NO FENCING SHALL BE CONSTRUCTED WITHIN ANY DRAINAGE EASEMENT AREA UNLESS SPECIFICALLY APPROVED BY THE BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT.

ZONE ATLAS: K-19

2. ANY FUTURE FENCING ALONG THE PERIMETER PROPERTY LINES MUST ADDRESS HOW OFFSITE FLOWS ARE CONVEYED THROUGH THE SITE AND BE APPROVED BY THE BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT

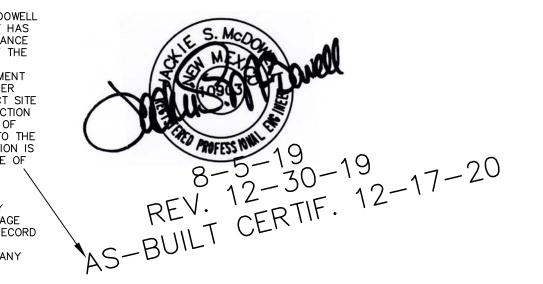


DRAINAGE CERTIFICATION:

FEMA FLOODWAY MAP NO. 35001C0358H

, JACKIE S. MCDOWELL, NMPE 10903, OF THE FIRM MCDOWELL ENGINEERING, INC. HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 12-30-19. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN PROVIDED BY BERNALILLO COUNTY. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 11-13-20 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on June 6, 2019, 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.

8101 Zuni Rd. SE, Albuquerque, NM 87108

CITY OF ALBUQUERQUE, BERNALILLO COUNTY

LOTS 5-A, BLOCK 3, UNITY ADDITION

BAKER. MARK - TINY HOME VILLAGE - GRADING & DRAINAGE PLAN

NEW MEXICO

McDowell Engineering 9nc.

Designed JSM	Drawn STAFF	Checked JSM	Sheet	of
File BAK0219L	Date JI	JNE,2019		1

