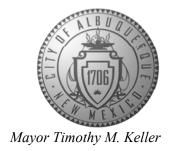
## CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



June 1, 2021

Jeffrey T. Wooten, P.E. Wooten Engineering PO Box 15814 Rio Rancho, NM 87174

RE: Lowes Market #99 Dock Addition 4701 4th St NW Grading and Drainage Plan Engineer's Stamp Date: 06/01/21 Hydrology File: F14D052

Dear Mr. Wooten:

PO Box 1293

Based upon the information provided in your submittal received 04/20/2021 and 06/01/2021, the Grading and Drainage Plan is approved for Building Permit and SO-19 Permit.

Albuquerque

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

NM 87103

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

www.cabq.gov

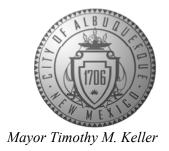
Please provide Drainage Covenant for the detention pond per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. There is a recording fee (\$25, payable to Bernalillo County). Please contact me if you have any question pertaining to the Drainage Covenant and email me the Covenant and Exhibit prior to executing it for completeness.

Please do one of the following:

- Drop off the original executed drainage covenant, the exhibit, and the \$25.00 recording fee check made payable to Bernalillo County at the drop box outside the building and labeled the package using the address below.
- Mail the original executed drainage covenant, the exhibit, and the \$25.00 recording fee check made payable to Bernalillo County to:

## CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



Planning Dept./DRC Attn: Curtis Cherne 600 2nd St. NW, Ste. 400 Albuquerque, NM, 87102

Once approved and recorded, you will get a pdf copy of the recorded Drainage Covenant via email.

If you have any questions, please contact me at 924-3995 or <a href="mailto:rbrissette@cabq.gov">rbrissette@cabq.gov</a>.

Renée C. Brissette

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



# City of Albuquerque

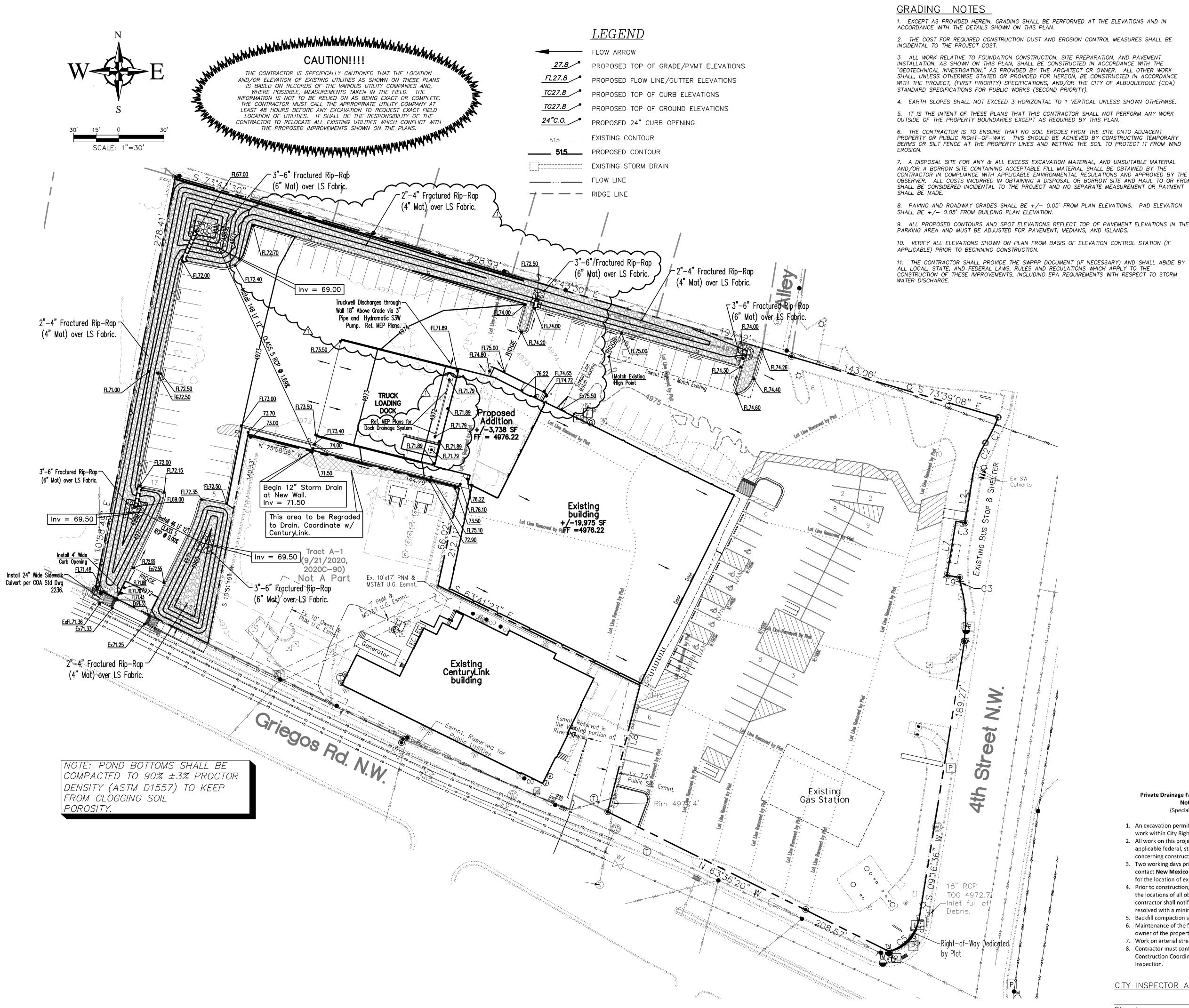
### Planning Department

### Development & Building Services Division

### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

	EDC#∙	Work Order#:
Legal Description: Tract A-2	. Mountain States Telephone & Telegr	aph Co and Tract A, Furr's Properties
City Address: 4701 4th St N		
City Address		27700000
Applicant: Wooten Engineeri	ing	Contact: Jeffrey T. Wooten, P.E.
Address: PO Box 15814, Rio	Rancho NM 8717/	Conditi.
		E-mail: jeffwooten.pe@gmail.com
		Contact:
		E-mail:
	PLAT (# OF LOTS) RESIDENC YesXNo	E DRB SITE _X ADMIN SITE
DEPARTMENT: TRAFFI	C/ TRANSPORTATION X HYDRO	OLOGY/ DRAINAGE
Check all that Apply:  TYPE OF SUBMITTAL:  ENGINEER/ARCHITECT COME PAD CERTIFICATION  CONCEPTUAL G & D PLA  X GRADING PLAN  DRAINAGE MASTER PLA  DRAINAGE REPORT  FLOODPLAIN DEVELOPM  ELEVATION CERTIFICATI  CLOMR/LOMR  TRAFFIC CIRCULATION I  TRAFFIC IMPACT STUDY  OTHER (SPECIFY)  PRE-DESIGN MEETING?	ERTIFICATION  N  N  ENT PERMIT APPLIC  E  AYOUT (TCL)  (TIS)	E 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 FLOODPLAIN DEVELOPMENT PERMIT
		OTHER (SPECIFY)

FEE PAID:\_\_\_\_



- 2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE
- 3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA)
- 4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- 5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND 7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL

- OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT
- 8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.05' FROM PLAN ELEVATIONS. PAD ELEVATION
- 9. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR PAVEMENT, MEDIANS, AND ISLANDS.
- 10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION (IF
- 11. THE CONTRACTOR SHALL PROVIDE THE SWPPP DOCUMENT (IF NECESSARY) AND SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM



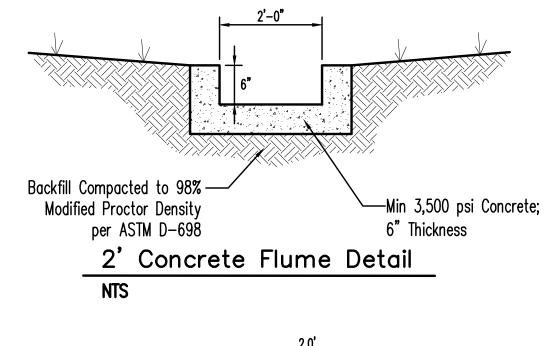
VICINITY MAP - Zone Atlas Page F-14-Z

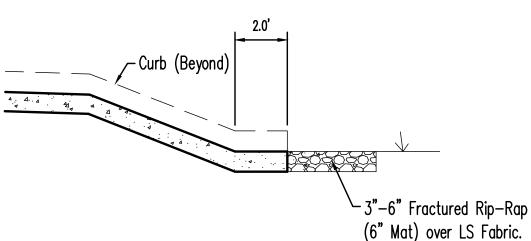
Legal Description: Tract A-2, Plat of the Lands of Mountain States Telephone & Telegraph Company, and Tract "A" Furr's Properties, and Lots 1-5 & 11-17 Rivera Place, and a portion of Vacated Rivera Place Rd NW, Vacated per V-489.



### FIRM MAP 35001C0119G

Per FIRM Map 35001C0119G, dated September 26, 2008, the site is located in Zone X, 0.2% Annual Chance Flood Area.





# Typical Flume Cross Section

### Private Drainage Facilities within City Right-of-Way **Notice to Contractor** (Special Order 19 ~ "SO-19")

- 1. An excavation permit will be required before beginning any
- work within City Right-Of-Way. 2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations
- 3. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990]

concerning construction safety and health.

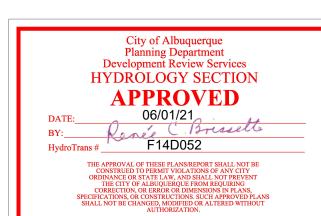
- for the location of existing utilities. 4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be
- resolved with a minimum amount of delay. 5. Backfill compaction shall be according to traffic/street use. 6. Maintenance of the facility shall be the responsibility of the
- 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.

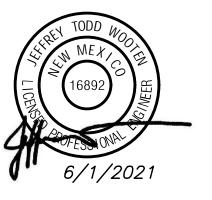
Date

CITY INSPECTOR APPROVAL

Signature

owner of the property being served.





A member of The American Institute of Architects

P.O. BOX 53910 Lubbock, Texas 79453

Phone: 806.744.4490 Fax: 806.744.4494

www.jdmaarchitects.con

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### CIVIL CONSULTANTS:

WOOTEN ENGINEERING 1005 21st St SE #13 Rio Rancho, New Mexico 87124 505 980 3560 PHONE

### M.P.E. CONSULTANTS:

**BSA CONSULTING** ENGINEERS, PLLC 14302 Slide Road Lubbock, Texas 79424 806 780 7475 PHONE 806 780 0129 FAX

### TRUCTURAL:

NIEMAN ENGINEERING, LLC 1500 Broadway **Suite 1210** Lubbock, TX 79401

806 589 3340 PHONE

STOR/ 4701

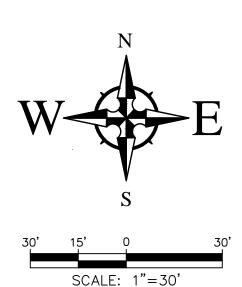
CHECKED B HEET TITLE:

DATE: JANUARY 2021 /1\06/01/21 City Comment

PROJECT #: 2020052

**Grading Plan** 

C200 OF



Install 4' Wide
Curb Opening per
Grading Plan

Install 24" Wide
Sidewalk Culvert per
Grading Plan

1.38Ac/

			F	Existina	Draina	ge Cal	culation	S				
			_	-Aroung	Diama	go our	and in On					
	This	s table is based	on the COA DI	PM Chapte	r 6.2, Zone:	2						
BASIN	Area	Area	Land Treatment Percentages				Q(100)	Q(100)	WTE	V(100) <sub>380</sub>	V(100) <sub>1440</sub>	V(100) <sub>100</sub>
	(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
Α	60160	1.38	0.0%	0.0%	78.0%	22.0%	3.48	4.81	1.35	6757	7198	8522
OS-1	10803	0.25	0.0%	0.0%	80.0%	10.0%	2.98	0.74	1.12	1005	1041	1149
TOTAL	70963	1.63		9				5.55		7762	8239	9670
			Prop	osed Di	rainage	Calcul	ations					
			Ultimate Development Conditions Basin Data Table				111					

OS-1	10803	0.25	0.0%	0.0%	80.0%	10.0%	2.98	0.74	1.12	1005	1041	1149
TOTAL	70963	1.63		4		0		5.55		7762	8239	9670
			Prop	osed Di	rainage	Calcul	ations					
			Ultimate	Developm	ent Condition	ons Basin I	Data Table					
	This	stable isbased	on the COA DI	M Chapte	r 6.2, Zone:	2		,				
BASIN	Area	Area	Lan	Land Treatment Percentages Q(10			Q(100)	Q(100)	WTE	V(100) <sub>380</sub>	V(100) <sub>1440</sub>	V(100) <sub>10day</sub>
	(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)
Α	60160	1.38	0.0%	0.0%	26.0%	74.0%	4.29	5.93	1.86	9338	10822	15274
OS-1	10803	0.25	0.0%	0.0%	80.0%	10.0%	2.98	0.74	1.12	1005	1041	1149
TOTAL	70963	1.63						6.67		10343	11862	16422

Proposed

Addition +/-3,738 SF FF = 4976.22

Existing CenturyLink building

Existing building

+/-19,975 SF by PAFF =4976.22

LOADING

0S-1 0.25Ac

Tract A-1

Not A Part

Griegos Ad. N.W.

<b>IMPERVIOUS</b>	AREA	CALCULATIONS

BASIN 'A' (EXISTING) TOTAL BASIN AREA: 60,160 SF PERVIOUS AREA: 46,692 SF (77.6%) IMPERVIOUS AREA: 13,468 SF (22.4%) BASIN 'A' (PROPOSED)

TOTAL BASIN AREA: 60,160 SF PERVIOUS AREA: 15,849 SF (26.3%) IMPERVIOUS AREA: 44,311 SF (73.7%)

### WATER QUALITY POND CALCULATION

TOTAL NEW IMPERVIOUS AREA = 39,439 SF FIRST FLUSH = 39,439 \* 0.42" / 12 = 1.380 CFTOTAL VOLUME PROVIDED = 7.961 CF

Water Quality Pond Volume Calculations

### POND 'A'

Elevation	Area	Volume	Volume Sum
(ft)	(sq.ft)	(cu-ft)	(cu-ft)
4967.0	180	0.0	0.0
4968.0	384	282.0	282.0
4969.0	1186	785.0	1067.0
4970.0	2274	1730.0	2797.0
4971.0	3580	2927.0	5724.0
4971.5	5370	2237.0	7961.0

Existing Gas Station

### POND OVERFLOW CALCULATIONS

### SIDEWALK CULVERT

WEIR EQUATION  $Q = C*L*(H^1.5)$ 

C = 2.87 (Weir Coefficient) L = 2 feet (Width of Flow) H = 0.67 feet (Depth of Flow) Therefore:

 $Q = 2.87*2*(0.67^1.5)$ Q = 2.87\*2\*0.55Qcap = 3.15 cfs

### 4' WIDE CURB OPENING

WEIR EQUATION

 $Q = C*L*(H^1.5)$ C = 2.87 (Weir Coefficient)

L = 4 feet (Width of Flow) H = 0.50 feet (Depth of Flow) Therefore:

 $Q = 2.87*4*(0.50^1.5)$ Q = 2.87\*4\*0.35

N.W.

9

Str

4th

18" RCP TOG 4972.7 -Inlet full of/

Debris.

Qcap = 4.02 cfs

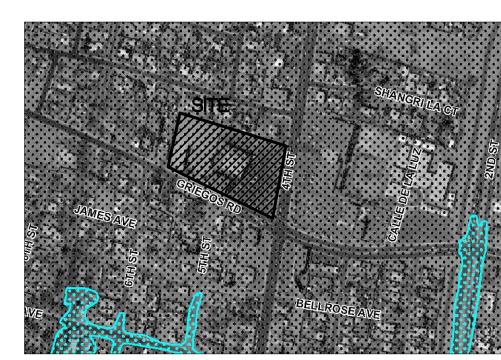
Total Overflow Capacity = 7.17cfs

Qreqd = 6.67cfs CHECK



### VICINITY MAP - Zone Atlas Page F-14-Z

Legal Description: Tract A-2, Plat of the Lands of Mountain States Telephone & Telegraph Company, and Tract "A" Furr's Properties, and Lots 1-5 & 11-17 Rivera Place, and a portion of Vacated Rivera Place Rd NW, Vacated per V-489.



### FIRM MAP 35001C0119G

in Zone X, 0.2% Annual Chance Flood Area.

Per FIRM Map 35001C0119G, dated September 26, 2008, the site is located

### DRAINAGE MANAGEMENT PLAN

The purpose of this submittal is to provide a grading plan and drainage management plan for a new Truck Dock and Parking Expansion for the existing Lowes Grocery Store located at 4701 4th St NW in Albuquerque, NM. The property consists of approximately 3.37 acres. The City Drainage File Numbers are F14-D052 for the existing Lowes and F14/D021 for the CenturyLink (Qwest) property.

### EXISTING HYDROLOGIC CONDITIONS

The site generally slopes to a couple of low points on site and ponds. Any overflow from the ponds would discharge onto Griegos Rd. There is an existing curb inlet located along Griegos directly adjacent to the site. The site area is mostly undeveloped except for some utility equipment located on the CenturyLink site. Per the Existing Drainage Calculations table this sheet, the site currently discharges 5.55 cfs onto Griegos during the 100—Yr, 6—Hr

### PROPOSED HYDROLOGIC CONDITIONS

The site will continue to pond and then overflow onto Griegos. Per the Proposed Drainage Calculations table this sheet, the runoff will increase by 1.12 cfs for a total of 6.67 cfs during the 100—Yr, 6—Hr storm. Ponding is being provided such that the difference between the 100-Yr, 10-Day storm (6,752 CF) is being captured. This ensures that the Pre-Developed runoff from the site will not be exceeded. The actual pond volume being provided is approximately 7,961 CF per calculations this sheet.

The pond will overflow and discharge through a 24" Sidewalk Culvert and a 4' wide curb opening in the driveway leading to Griegos Rd. Reference the weir calculations, this sheet.

### STORMWATER QUALITY PONDING

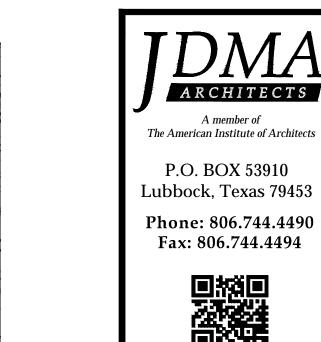
Per the Calculations this sheet, we are providing two separate ponds which are connected via a 12" pipe, which more than captures the required First Flush volume per the DPM.

Per the percolation test provided by Western Technologies in the Geotechnical Report, the site soils will drain at a rate of 10 minutes per inch which is equivalent to 6 inches per hour or 12 feet per day. At this rate, the ponds should completely discharge in less than 24 hours via infiltration..

This drainage management plan provides for grading and drainage elements which are capable of safely passing the 100 year storm and meets city requirements. The proposed improvements for the site should not have any negative impacts to facilities downstream. With this submittal, we are requesting approval of Building Permit.







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### M.P.E. CONSULTANTS:

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### TRUCTURAL:

NIEMAN ENGINEERING, LLC 1500 Broadway **Suite 1210** Lubbock, TX 79401 806 589 3340 PHONE

# LOWE'S MARKET #99 CK AND STORAGE ADDITIO 4701 4TH STREET NORTHWEST ALBUQUERQUE, NM 87107 DOC]

DRAWN BY: CHECKED BY: RG SHEET TITLE:

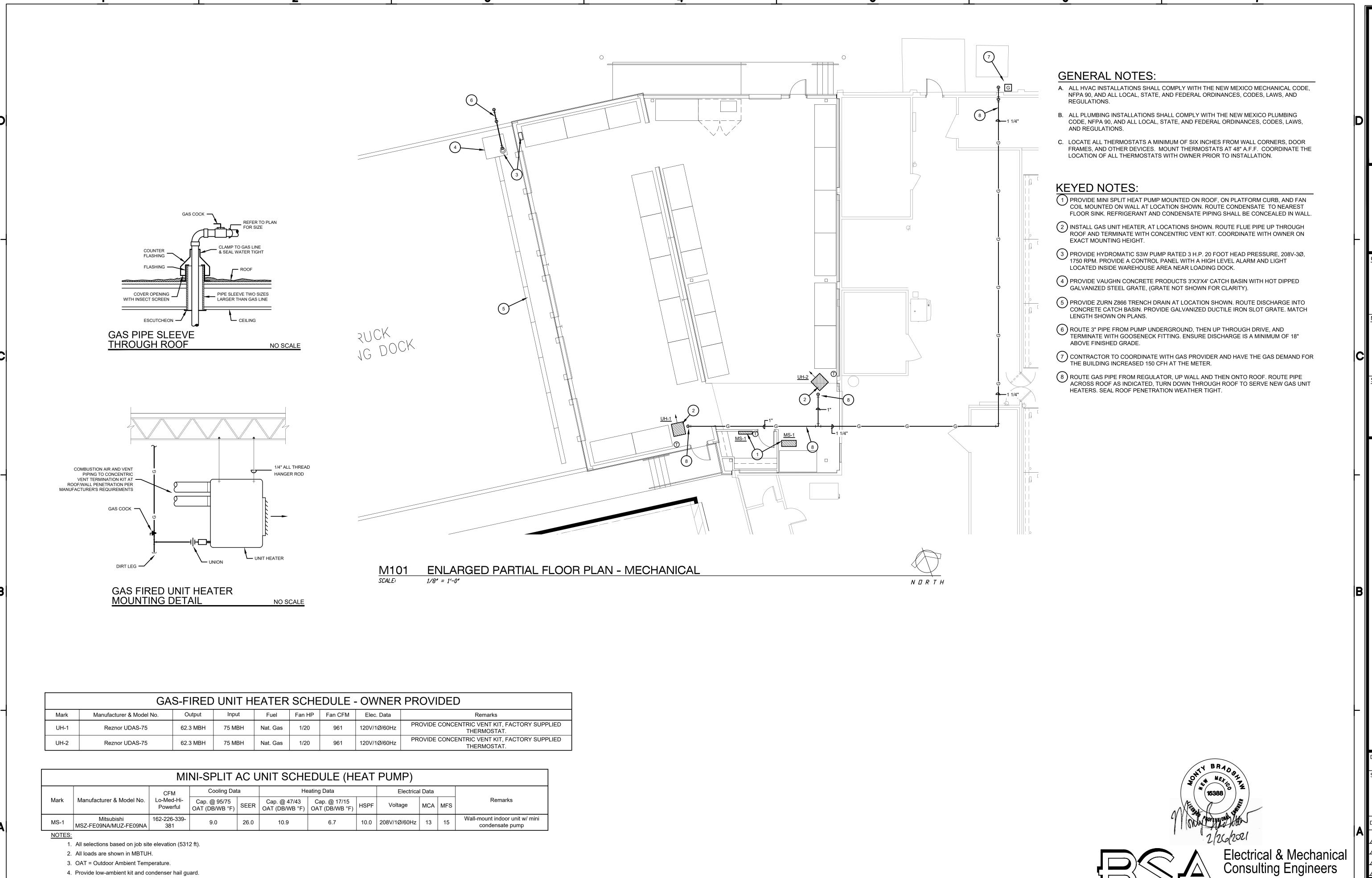
DATE: JANUARY 2021

1 06/01/21 City Comment

PROJECT #: 2020052

C201 OF

Drainage Management Plan



4. Provide low-ambient kit and condenser hail guard.

A member of

The American Institute of Architects P.O. BOX 53910

Lubbock, Texas 79453

Phone: 806.744.4490

Fax: 806.744.4494



CIVIL CONSULTANTS:

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M.P.E. CONSULTANTS:

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STRUCTURAL:

NIEMAN ENGINEERING, LLC 1500 Broadway Suite 1210 Lubbock, TX 79401 806 589 3340 PHONE

MDB *SAC/SRC* SHEET TITLE:

MECHANICAL PLAN

DATE: FEBRUARY 26, 2021

PROJECT #: *T21814* SHEET:

2-26-2021

TEXAS FIRM REGISTRATION NO. F-4415

14302 Slide Road

Phone: 806.780.7475 Fax: 806.780.0129 www.bsaengineering.com