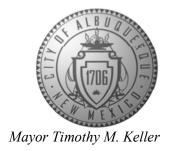
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



May 28, 2025

Mike Walla, P.E. Walla Engineering 6501 Americas Pwky NE, Suite 301 Albuquerque, NM 87110

RE: Nusenda Credit Union 2801 Juan Tabo NE Permanent C.O. – Accepted Engineer's Certification Date:4/10/25 Engineer's Stamp Date: 8/8/22 Hydrology File: H21D020 Case # HYDR-2025-00124

PO Box 1293 Dear Mr. Walla:

Based on the Certification received 4/11/2025 and the site visit on 4/14/2025, this letter serves as an approval from the Hydrology Section for a Permanent Certificate of Occupancy to be issued by the Poilting and Section Division

Albuquerque by the Building and Safety Division.

NM 87103 If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

www.cabq.gov Sincerely,

Anthony Montoya, Jr., P.E. Senior Engineer, Hydrology

Planning Department, Development Review Services

TRACT B-2 and 13a, BLOCK 79, SNOW HEIGHTS

ADDITION, ALBUQUERQUE, BERNALILLO

COUNTY, NEW MEXICO

BASIS OF ELEVATIONS

ELEVATION DATUM IS BASED ON 1988

PUBLISHED ELEVATION (FEET) = 5613.801

FROM AGRS MONUMENT "10 H22""

GENERAL NOTES

A FIELD VERIFY ALL SPOT ELEVATIONS SHOWN AT EXISTING CURB AND GUTTER AT ROADWAYS

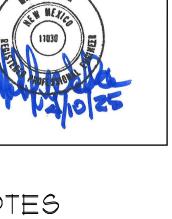
DRAINAGE CERTIFICATION

GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 8-8-2022, THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED FROM BRIAN MARTINEZ, NMPS 18374. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 4-7-2025 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF THE 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 THE PROJECT, THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBJAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

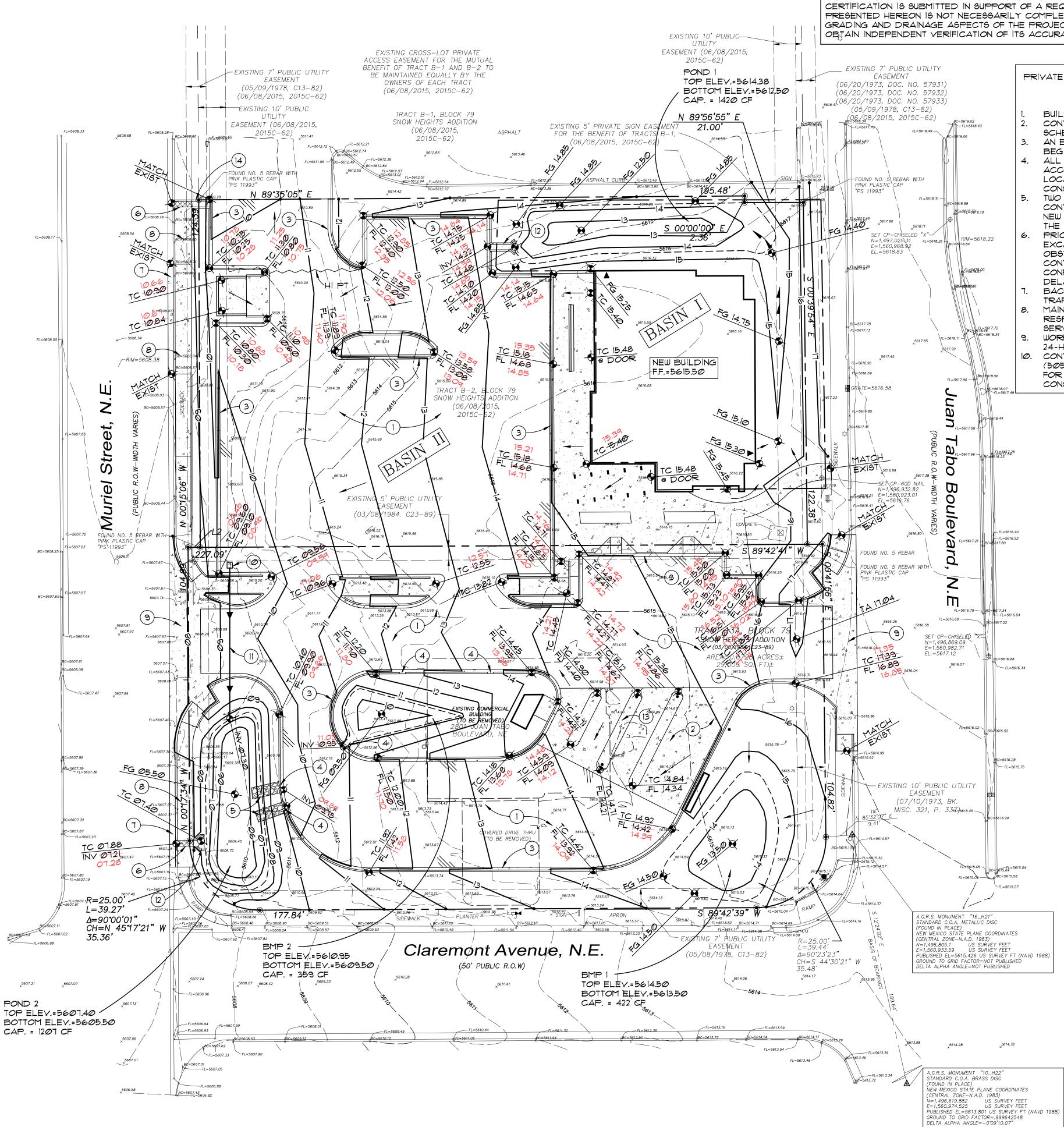




MIKE WALLA, NMPE 11030, OF THE FIRM WALLA ENGINEERING, LTD., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN







PRIVATE DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY NOTICE
TO CONTRACTOR
(SPECIAL ORDER 19 - "SO-19")

BUILD SIDEWALK CULVERT PER COA STD. DWG. 2236. CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A MEETING PRIOR TO FORMING. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE

BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. ALL WORK ON THIS PROJECT SHALL BE PERFORMED I ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT THE LINE LOCATING SERVICE, NEW MEXICO ONE, DIAL "811", OR CALL (505) 260-1990, FOR THE LOCATION OF EXISTING UTILITIES. 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

BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.

MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A

24-HOUR BASIS. CONTRACTOR MUST CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A CONSTRUCTION INSPECTION. FOR EXCAVATING AND BARRICADING INSPECTION, CONTACT CONSTRUCTION COORDINATION AT (505) 924-3416.

Nusenda @ 2801 Juan Tabo NE – Site Area = 1.292 acres

Peak Discharge for Small Watersheds: per Table 6.2.14

Excess Precipitation, E, per Table 6.2.13

PRE-DEVELOPED CONDITIONS – Entire Site

0.417

0.000

0.876

Total Qp = $(0.417 \times 2.49) + (0.876 \times 4.49) = 4.97$ CFS

V₃₆₀ = 2.027 x 1.292 x 43560/12 = 9505 CF

POST-DEVELOPED CONDITIONS – Entire Site

0.376

0.000

0.916

Total Qp = $(0.376 \times 2.49) + (0.916 \times 4.49) = 5.05$ CFS

 $V_{360} = 2.08 \times 1.292 \times 43560/12 = 9755 \text{ CF}$

Storm Water Quality Volume, (SWQV)

DEVELOPED CONDITIONS - BASIN I

0.000

0.114

0.000

V₃₆₀ = 1.67 x 0.215 x 43560/12 = 1303 CF

DEVELOPED CONDITIONS - BASIN II

0.262

0.000

V₃₆₀ = 2.16 x 1.077 x 43560/12 = 8451 CF

SWQV POND 2 VOLUME:

SWQV BMP 2 VOLUME:

Weighted E: $[(0.262 \times 0.86) + (0.815 \times 2.58)]/1.077 = 2.16$ in

SWQV Req'd = 0.26"/12 in/ft x 0.815 AC x 43560 sf/AC = 769.2 CF

07.40

07.00

Contour

Total Volume

10.95

10.00

Total Qp = $(0.262 \times 2.49) + (0.815 \times 4.49) = 4.312$ CFS

Impervious Area = 0.916 ac

Weighted E: $[(0.417 \times 0.86) + (0.876 \times 2.58)]/1.292 = 2.027$ in

Weighted E: $[(0.376 \times 0.86) + (0.916 \times 2.58)]/1.292 = 2.08$ in

Rational Method Check: 12-minute Peak Intensity, I = 4.96 in/hr $Q = CIA = (0.50 \times 4.96 \times 0.376) + (0.91 \times 4.96 \times 0.916) = 5.066 CFS OK$

BMP Volume Required: 0.42" x 0.916 x 43560/12 = 1397 CF

Weighted E: $[(0.114 \times 0.86) + (0.101 \times 2.58)]/0.215 = 1.67$ in

14.38

14.00

Total Qp = $(0.114 \times 2.49) + (0.101 \times 4.49) = 0.358$ CFS

Hydrology Calculations

Design Criteria: City of Albuquerque Development Process Manual – June 2020

Procedure for 40-Acre and Smaller Basins

Precipitation Zone 3 per Section 6-2(A)(1), Table 6.2.7 and Figure 6.2.3

Chapter 6 Drainage, Flood Control, and Erosion Control

Land Treatment Area (ac) Excess Precip. 'E" (in) Peak Q (cfs/ac) Coefficient C

0.67

0.86

1.09

2.58

Land Treatment Area (ac) Excess Precip. 'E" (in) Peak Q (cfs/ac) Coefficient C

0.67

0.86

1.09

2.58

0.67

0.86

1.09

2.58

0.86

1.09

2.58

Storm Water Quality Volume (SWQV) Required: Impervious Area = 0.815 Ac

2.49

3.17

4.49

2.49

3.17

4.49

2.49

3.17

1666 SF

1285 SF

432 SF

2.49

3.17

4.49

Redeveloped Site Rainfall = 0.26"

Sub total 1207 CF

Area 1300 SF

928 SF

Area

420 SF 336 SF

KEYED NOTES

- ASPHALT PAYING PER DETAIL 1/C201

5 4'-0" WIDE x 10'-0" GRAVEL RIPRAP RUNDOWN

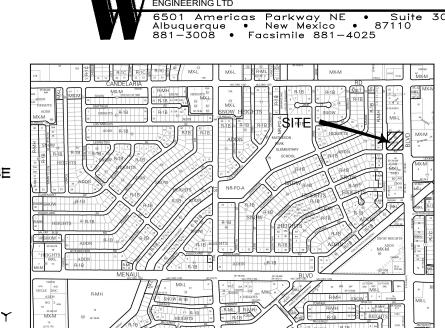
CONCRETE PAYING PER DETAIL 2/C201

- 3 CONCRETE CURB AND GUTTER PER DETAIL 3/C2Ø1
- 4 2'-0" WIDE CURB BREAK FOR DRAINAGE CONVEYANCE
- 6 2'-0" WIDE SIDEWALK CULVERT PER CITY OF ALBUQUERQUE STANDARD DRAWING #2236
- REMOVE AND REPLACE EXISTING CURB AND GUTTER PER
- CITY OF ALBUQUERQUE STANDARD DRAWING #2415A REMOVE AND REPLACE EXISTING SIDEWALK PER CITY OF
- ALBUQUERQUE STANDARD DRAWING #2430 REMOVE AND REPLACE EXISTING DRIVE ACCESS PER CITY
- OF ALBUQUERQUE STANDARD DRAWING #2426 10 CONCRETE CATCH BASIN PER DETAIL 4/C201 - TG=09.00
- 11 8" PVC C900 STORM DRAIN 1% SLOPE
- 12 CONCRETE POND OVERFLOW RUNDOWN PER DETAIL 5/C201
- 13 CONCRETE ISLAND PER DETAIL 6/C2Ø1

--- PROPERTY LINE

14 CONCRETE RUNDOWN PER DETAIL 5/C2Ø1





VICINITY MAP

Structural Engineering

Engineering

LEGEND

0.37

0.50

0.64

0.91

0.37 0.50

0.64

0.91

0.37

0.50 0.64

0.91

0.50

0.64

0.91

<u>1566 CF</u> > 769.2 CF OK

561 CF

859 CF

TOTAL 1420 CF > 1303 CF OK

INY OUT = 07.80

	NEW BUILDING LINE
- <i></i> 5615	EXISTING CONTOUR
15	NEW CONTOUR
500	NEW SPOT ELEVATION
	NEW FLOW DIRECTION ARROW
	SWALE
FF	FINISH FLOOR
TA	TOP OF ASPHALT
TC	TOP OF CONCRETE OR CURB
FL	FLOW LINE
TG	TOP OF GRATE
INY	INVERT
	ROOF DRAIN LOCATION
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	NEW CONCRETE PAYING/SIDEWALK

NEW AC PAYING

BASIN BORDER LINE

GRADING and DRAINAGE PLAN

A NEW BRANCH FOR:



2801 JUAN TABO BLVD NE ALBUQUERQUE, NM



Grading & Drainage Design Narrative

Subject Property: Nusenda Credit Union – 2801 Juan Tabo NE, Albuquerque, NM Area of Site: 1.292 Acre

Reference: City of Albuquerque Development Process Manual (DPM) Project Description: The development is the construction of a new 3500 SF, single story structure with a drive up banking canopy and new concrete and asphalt paved access sidewalks and vehicle parking.

Predeveloped Conditions: The existing site is two lots that will be combined into one. The southern lot has an existing bank building that will be demolished along with the existing paving to create the new facility while the northern lot has some broken paved surfaces that will be removed. The site will be regraded and the new building will be constructed north of the existing building pad. Both of the current lots direct runoff from east to west across the site in sheet flow pattern that ends up in Muriel St. at the west border of the site. From there the developed runoff appears to proceed west on surface facilities in Claremont Ave. eventually ending up in the Piedra Lisa Arroyo or below grade storm drain in Menaul Blvd.

Developed Runoff: The new development will remove all existing structures and regrade the entire site. Basin I encompasses only the new building and the landscaped area on the NEC of the site. This basin will have a pond that will capture all of the 100-yr runoff volume. Basin II is basically the rest of the site and will have two smaller BMP areas along with a retention pond located at the SWC of the site. These facilities will capture a runoff volume exceeding the required Storm Water Quality Volume (SWQV) for a redeveloped site. Excess runoff volume will discharge to Muriel St. as it has previously but the new development will reduce this historic runoff volume and flow considerably

revisions

- REVISED 9-6-23 REVISED 5-16-24
- REVISED 6-28-24

date: 8-8-22 sheet: C101

1 grading and drainage plan