

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller

November 5, 2021

David Aube, P.E.
Hartman & Majewski Design Group
120 Vassar Dr SE, Suite 100
Albuquerque, NM 87106

**RE: Hiland Plaza
500 Central Ave. SE
Grading and Drainage Plan
Engineer's Stamp Date: 11/04/21
Hydrology File: K17D120**

Dear Mr. Aube:

PO Box 1293

Based upon the information provided in your submittal received 09/17/2021, the Grading & Drainage Plan is approved for Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

PRIOR TO CERTIFICATE OF OCCUPANCY:

NM 87103

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.
2. Please provide Drainage Covenant for the stormwater quality ponds per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. Please submit an electronic file of the Covenant and Exhibit for completeness to Marion G. Velasquez at mgvelasquez@cabq.gov. Once the electronic file is approved for completeness, please submit the original copies along with the **\$ 25.00** recording fee check made payable to Bernalillo County to Marion on the 4th floor of Plaza de Sol.

www.cabq.gov

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 (Dough Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

CITY OF ALBUQUERQUE

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If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

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 6/2018)

Project Title: Hiland Plaza **Building Permit #:** _____ **Hydrology File #:** K17-D120
DRB#: PR-2021-00539 **EPC#:** _____ **Work Order#:** 685782
Legal Description: Hiland Plaza
City Address: 500 Central Avenue SE

Applicant: Greater Albuquerque Housing Partnership **Contact:** Miriam hicks
Address: 320 Gold Avenue SW, Suite 918, Albuquerque, NM 87102
Phone#: 505.705.3703 **Fax#:** _____ **E-mail:** miriam@abqgahp.org

Other Contact: Design Group **Contact:** Dave Aube
Address: 120 Vassar Drive SE
Phone#: 505-463-4503 **Fax#:** 505-242-6881 **E-mail:** daube@designgrouponm.com

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE ☒ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes ☒ No

DEPARTMENT _____ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- _____ ENGINEER/ARCHITECT CERTIFICATION
- _____ PAD CERTIFICATION
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- ☒ DRAINAGE REPORT
- _____ DRAINAGE MASTER PLAN
- _____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- _____ ELEVATION CERTIFICATE
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT (TCL)
- _____ TRAFFIC IMPACT STUDY (TIS)
- _____ STREET LIGHT LAYOUT
- _____ OTHER (SPECIFY) _____
- _____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

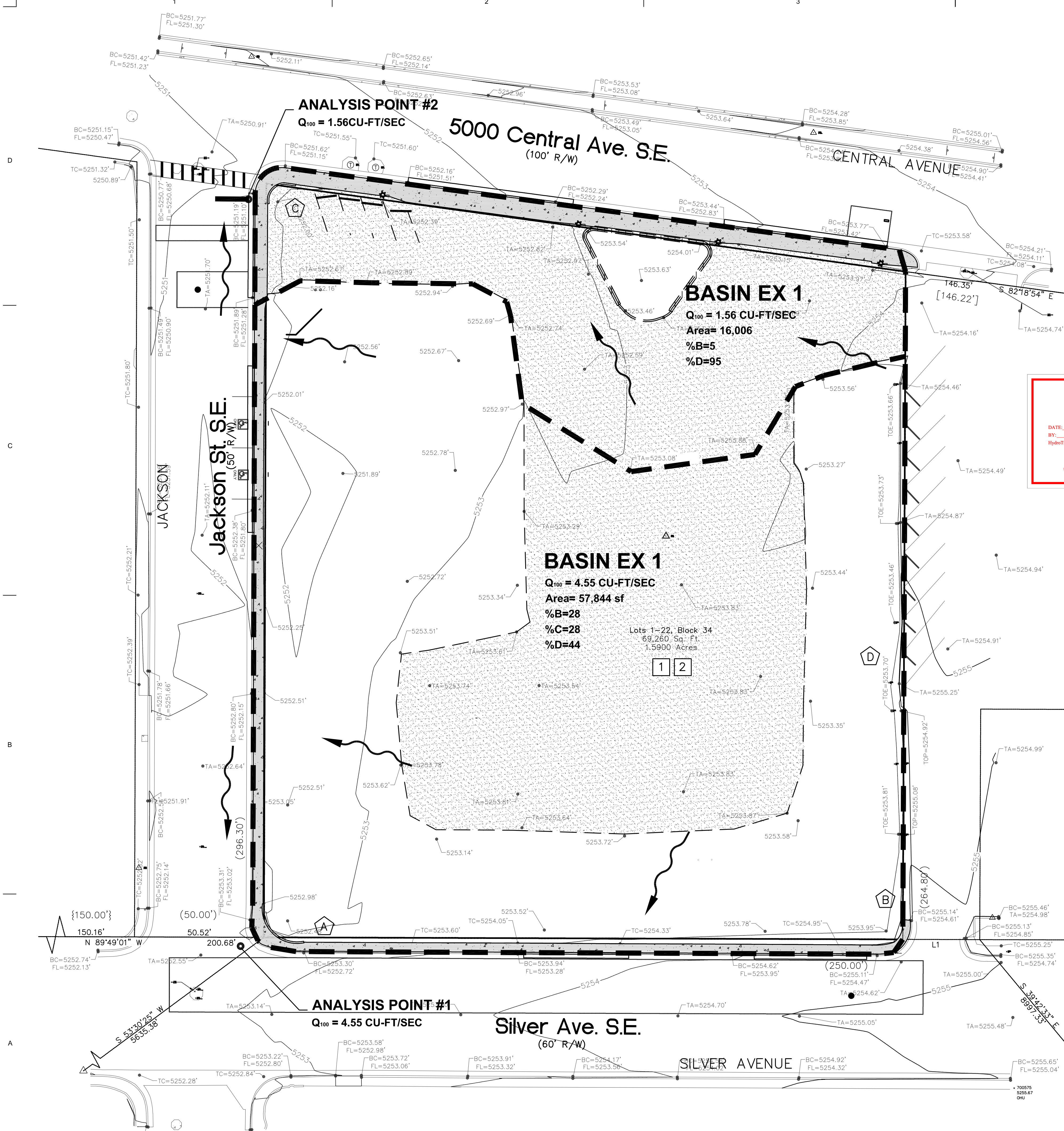
- ☒ BUILDING PERMIT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY
- _____ PRELIMINARY PLAT APPROVAL
- _____ SITE PLAN FOR SUB'D APPROVAL
- _____ SITE PLAN FOR BLDG. PERMIT APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ SIA/ RELEASE OF FINANCIAL GUARANTEE
- _____ FOUNDATION PERMIT APPROVAL
- _____ GRADING PERMIT APPROVAL
- _____ SO-19 APPROVAL
- _____ PAVING PERMIT APPROVAL
- _____ GRADING/ PAD CERTIFICATION
- _____ WORK ORDER APPROVAL
- _____ CLOMR/LOMR
- _____ FLOODPLAIN DEVELOPMENT PERMIT
- _____ OTHER (SPECIFY) _____

DATE SUBMITTED: 09-17-2021 **By:** Dave Aube

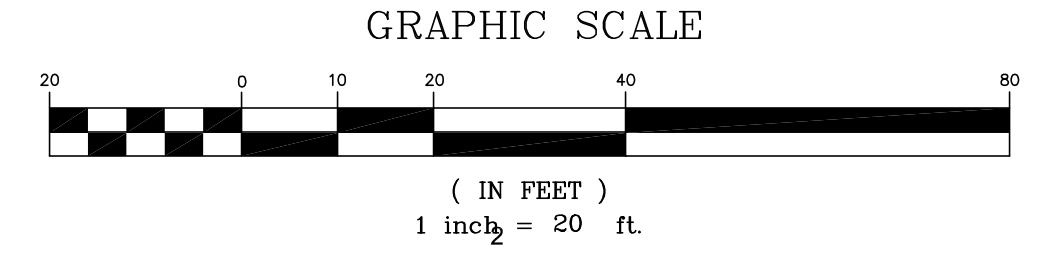
COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

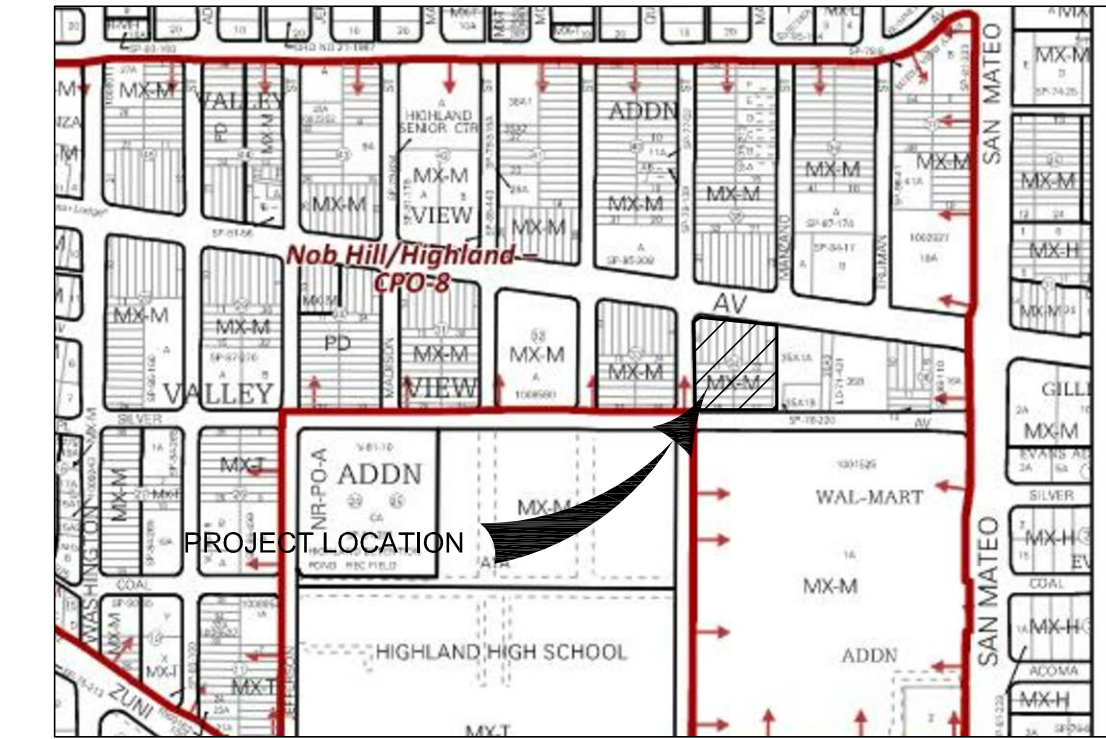
FEE PAID: _____



A1 EXISTING DRAINAGE PLAN
SCALE: 1" = 20' 0"



City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 11/05/21
BY: *Randy C. Brunsell*
HydroTrans # K17D120
THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSIDERED AN ENDORSEMENT OF ANY DESIGN OR CONSTRUCTION. THE CITY OF ALBUQUERQUE IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DOCUMENT. ANY CHANGES TO THESE PLANS/REPORTS SHALL BE MADE BY THE CITY OF ALBUQUERQUE. ANY CHANGES TO THESE PLANS/REPORTS SHALL NOT BE CONSIDERED AN ENDORSEMENT OF ANY DESIGN OR CONSTRUCTION.



A5 ZONE ATLAS PAGE K-17
NOT TO SCALE

FLOOD ZONE DETERMINATION
The surveyed area, as shown hereon, appears to lie within "ZONE X" (areas determined to be outside the 0.2% annual chance floodplain), shown on National Flood Insurance Program Flood Insurance Rate Map 35001C0354H REVISED 08/16/2012.



C5 FEMA FLOOD ZONE
NOT TO SCALE

Drainage Summary

Project:	Hiland Plaza
Project Number:	2574
Date:	05/28/21
By:	Dave A
Site Location	
Precipitation Zone	2 Per COA DPM Chapter 6
Existing summary	
Basin Name	Ex Basin 1 Ex Basin 2
Area (sf)	57844 16006
Area (acres)	1.33 0.37
%A Land treatment	0 0
%B Land treatment	28 5
%C Land treatment	28 0
%D Land treatment	44 95
Soil Treatment (acres)	
Area "A"	0.00 0.00
Area "B"	0.37 0.02
Area "C"	0.37 0.00
Area "D"	0.58 0.35
Excess Runoff (acre-feet)	
100yr. 6hr.	0.1702 0.0690 acre-ft
10yr. 6hr.	0.0977 0.0444 acre-ft
2yr. 6hr.	0.0537 0.0288 acre-ft
100yr. 24hr.	0.1848 0.0777 acre-ft
Peak Discharge (cfs)	
100 yr.	4.55 1.56 cfs
10yr.	2.53 0.96 cfs
2yr.	1.23 0.58 cfs

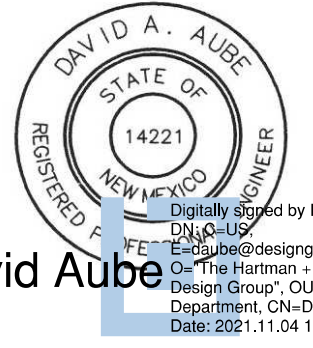
A5 EXISTING DRAINAGE CALCULATIONS
NOT TO SCALE



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Albuquerque New Mexico 87106
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CONSULTANT

STAMP



PERMIT SET

PROJECT NAME

HILAND PLAZA

5000 CENTRAL AVENUE NE
ALBUQUERQUE, NM 87108

REVISIONS

NO.	DATE	DESCRIPTION

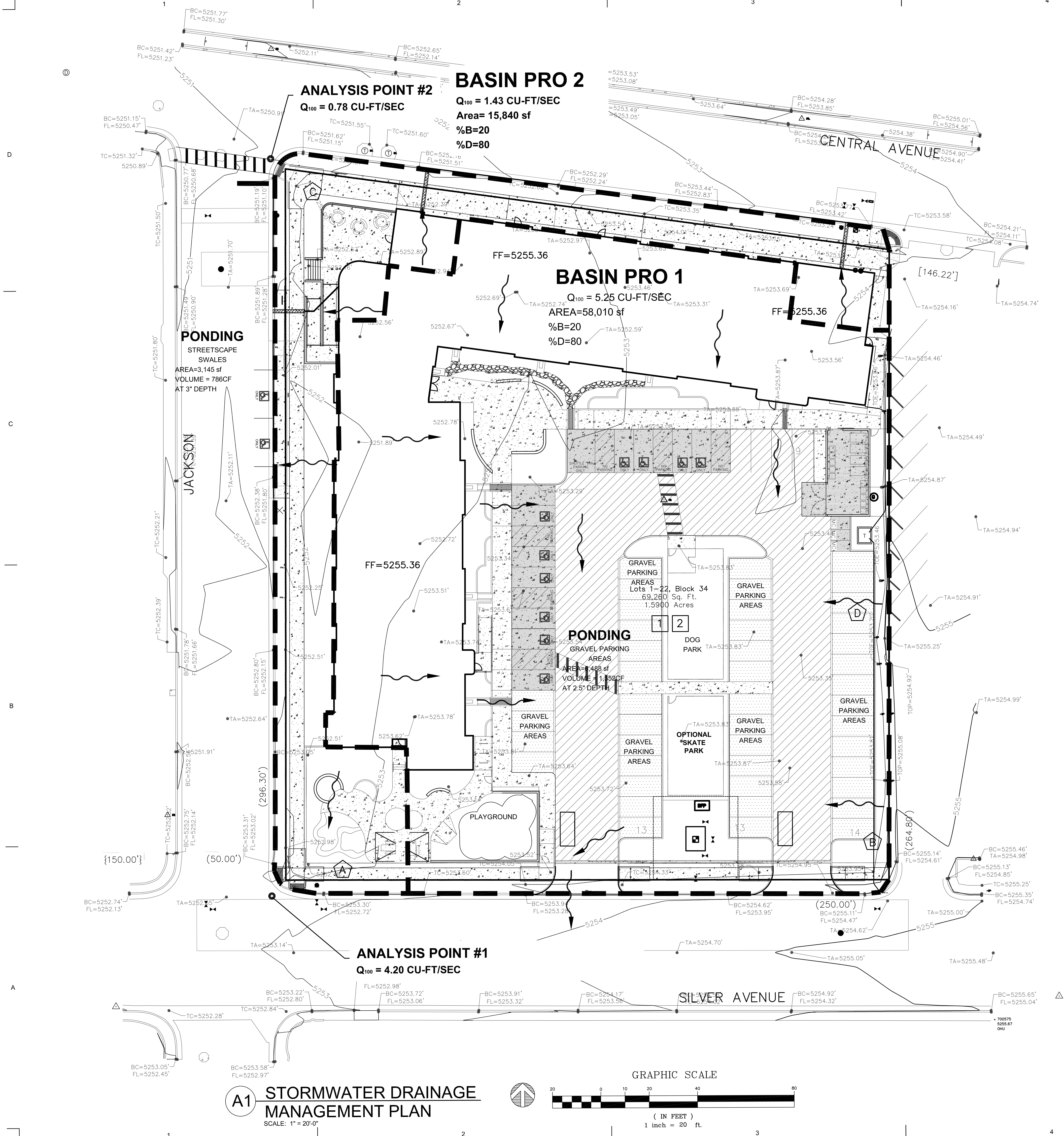
Copyright: Design Group
Drawn by: DAA
Checked by: DAA
Date: September 20, 2021
Project number: 2574

SHEET TITLE

EXISTING
DRAINAGE
PLAN

SHEET NUMBER

CD1



dg
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Sidewalk Culvert	Per DPM Section 6-16(A)	
Q=CLH ² (2/3)	Street Side	Parkign Lot Side
Q= Flow Rate	2.07	3.40
C= Wier Coefficient 2.7 (Broad Crested)	2.7	2.7
L= Width of Culvert	1	2
H= Water Depth	0.67	0.5
Required per Culvert	0.12 cfs	0.47 cfs

Drainage Summary

Project: Hiland Plaza
Project Number: 2574
Date: 05/28/21
By: Dave A

Site Location
Precipitation Zone 2 Per COA DPM Chapter 6

Proposed summary

Basin Name

Area (sf)

Area (acres)

%A Land treatment

%B Land treatment

%C Land treatment

%D Land treatment

Soil Treatment (acres)

Area "A"

Area "B"

Area "C"

Area "D"

Excess Runoff (acre-feet)

100yr. 6hr.

10yr. 6hr.

2yr. 6hr.

100yr. 24hr.

Peak Discharge (cfs)

100 yr.

10yr.

2yr.

Water Quality Ponding Volume (cf)

Water Quality Acre Feet

Pro Basin 1

Pro Basin 2

58010

15840

1.332

0.364

20

20

80

80

0.00

0.00

0.27

0.07

0.00

0.00

1.07

0.29

0.2246

0.0613

0.1407

0.0384

0.0882

0.0241

0.2513

0.0686

5.25

1.43

3.14

0.86

1.79

0.49

928.2

253.4 cf

0.0213

0.0058

This spreadsheet will compute the ponding volume required based on incoming flow rate and the allowable discharge rates.

This is based on COA Chapter 6, Hydrographs for small watersheds.

Pond Routing and Volumes

Incoming Flow Rate

Allowable Discharge Rate

Hydrology Zone

Area Total

Area Type A

Area Type B

Area Type C

Area Type D Impervious

Excess runoff rates

Weighted E (Exces Runoff)

Time of Concentration

Time to Peak

=0.7*TC + ((1.6*(Ad/At))/12)

Time of Base

=2.107*E*At/Op-(25*Ad/At)

Duration of Peak

Time for end of peak

Time when storage begins

Time incoming is less that discharge

Volume Required during storm

Volume Required during storm

Volume Stored in Basin during storm

Volume Available by ponds

Volume Available total by basin

Ponds in gravel pave

Basin 1 (Peak Runoff total 5.25cfs)

5.25

4.2

2

1.332

0

20

0

0

80

0.82

0.80

1.03

2.33

2.02

0.2

0.207

0.882

0.200

0.407

0.165

0.502

0.282

1022

1081

1081

0.282

1022

1081

1081

0.282

1022

1081

1081

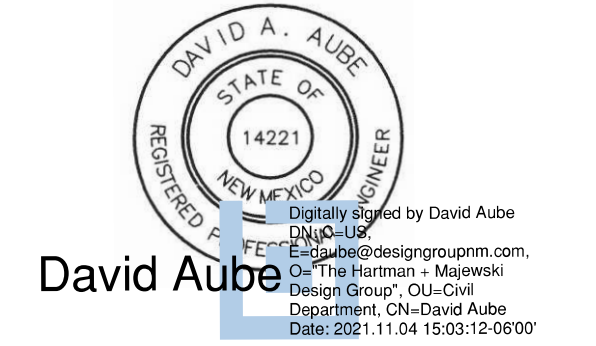
0.282

1022

1081

1081

STAMP



PERMIT SET

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HILAND PLAZA

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ALBUQUERQUE, NM 87108

REVISIONS

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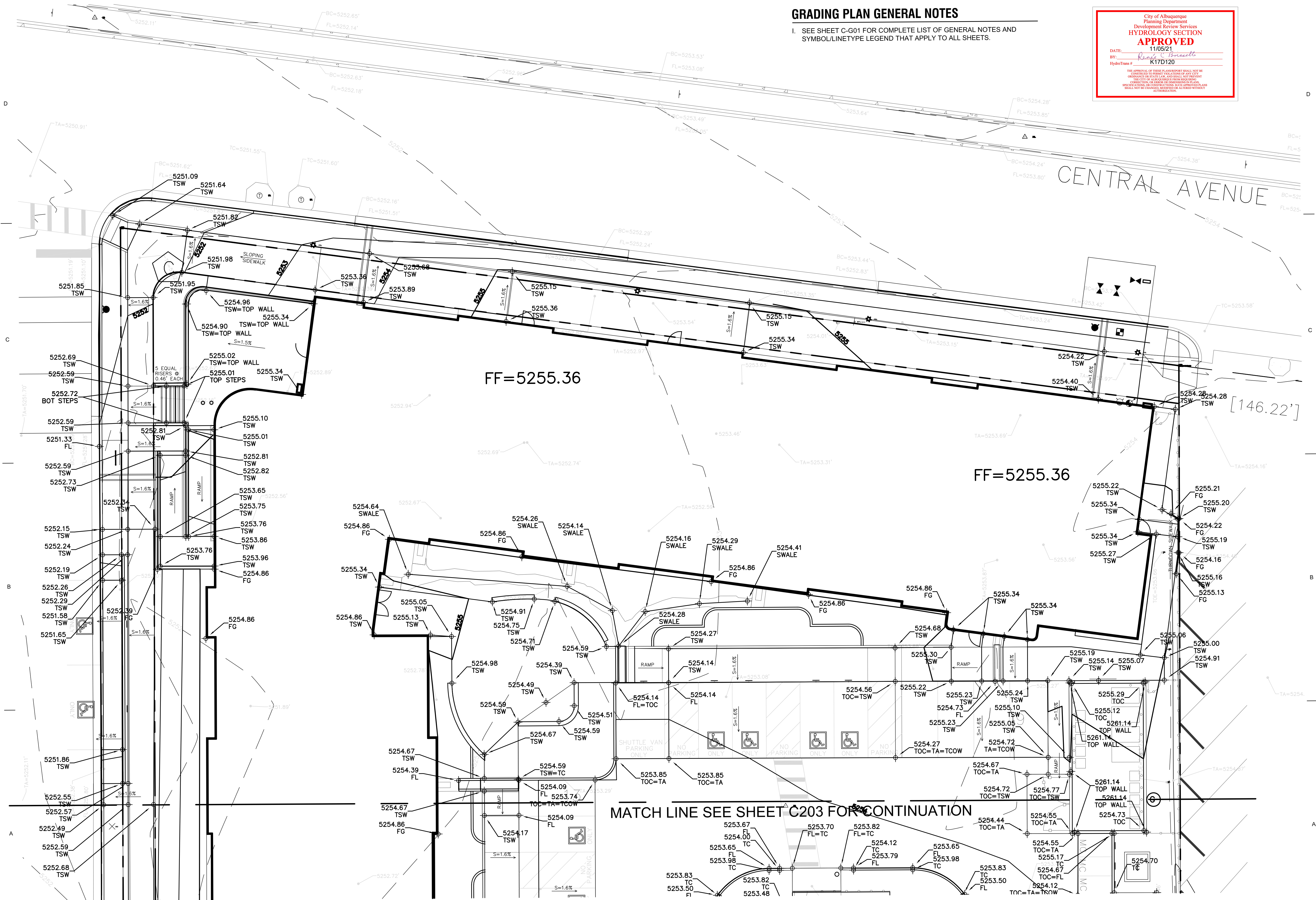
Drawn by: DAA
Checked by: DAA
Date: September 20, 2021
Project number: 2574

SHEET TITLE

STORMWATER
DRAINAGE MANAGEMENT
PLAN

SHEET NUMBER

CD2



GRADING PLAN GENERAL NOTES

I. SEE SHEET C-G01 FOR COMPLETE LIST OF GENERAL NOTES AND SYMBOL/LINETYPE LEGEND THAT APPLY TO ALL SHEETS.

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 11/05/21
BY: *Randy C. Bruneau*
HydroTrans #: K17D120
THE APPROVAL OF THESE PLANS BY THE CITY OF ALBUQUERQUE DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE CITY OF ALBUQUERQUE DOES NOT PROVIDE A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE CITY OF ALBUQUERQUE DOES NOT PROVIDE A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED HEREON.

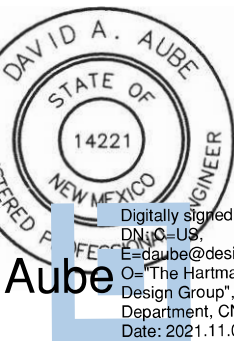


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Drawn by	DAA
Checked by	DAA
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Project number	2574

SHEET TITLE

ENLARGED
SITE GRADING PLAN

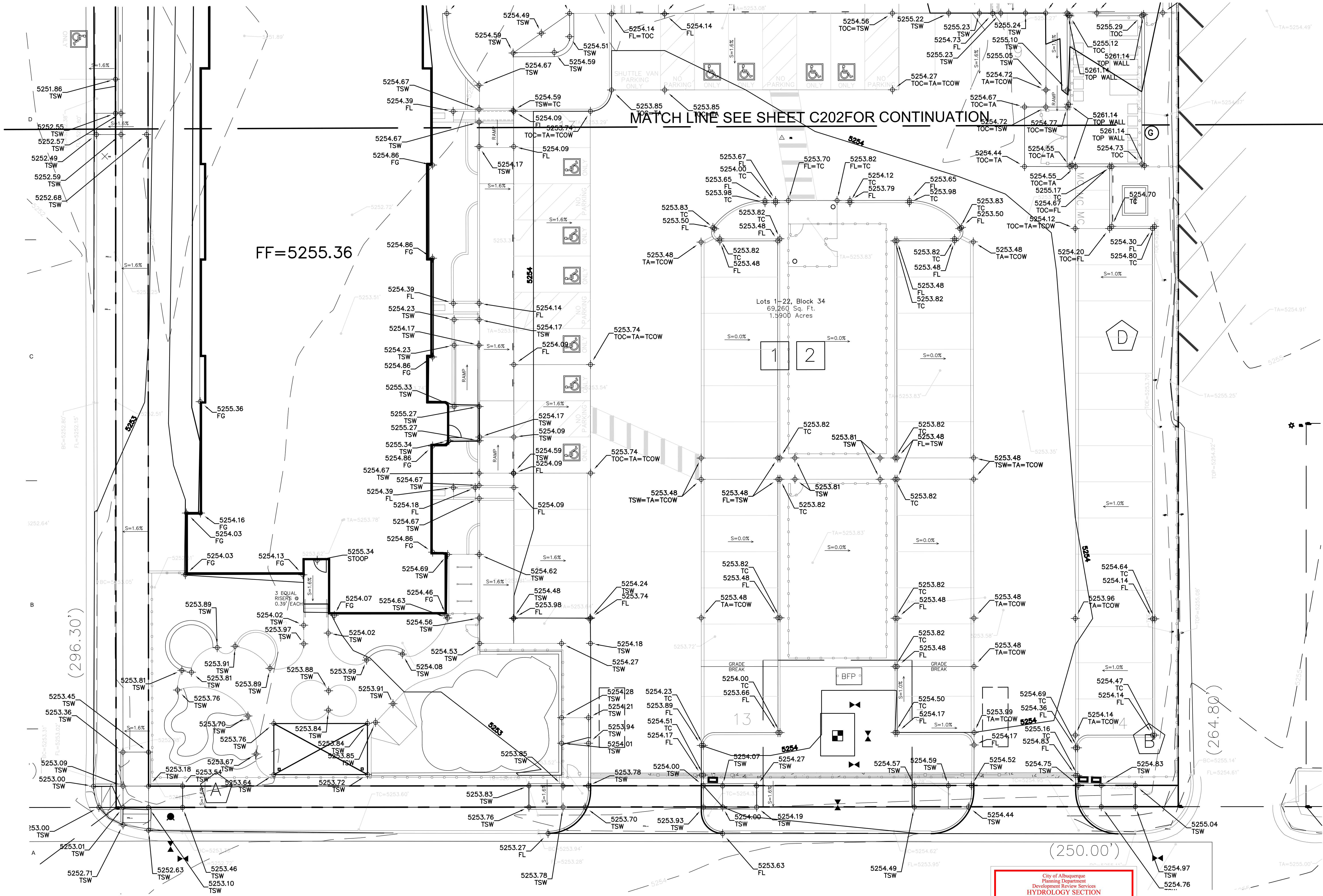
SHEET NUMBER

C-202

A1 ENLARGED SITE GRADING PLAN



(IN FEET)
1 inch = 10' ft.



MATCH LINE SEE SHEET C202 FOR CONTINUATION

GRADING PLAN GENERAL NOTES

- SEE SHEET C-G01 FOR COMPLETE LIST OF GENERAL NOTES AND SYMBOL/LINETYPE LEGEND THAT APPLY TO ALL SHEETS.

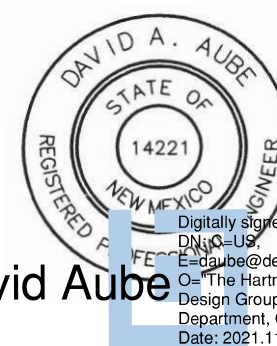


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SHEET TITLE

ENLARGED
SITE GRADING PLAN

SHEET NUMBER

C-203

A1 ENLARGED SITE GRADING PLAN

