

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

March 10, 2023

Dennis Lorenz, P.E.
Lorenz Design & Consulting LLC
3308 Calle De Daniel NW
Albuquerque, NM 87104

**RE: Congress Apartments
Grading and Drainage Plans
Engineer's Stamp Date: 2/8/2023
Hydrology File: C13D033**

Dear Mr. Lorenz:

Based upon the information provided in your submittal received 3/10/2023, the Grading & Drainage Plan is approved for Building Permit approval. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.
2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for \$25 made out to "Bernalillo County" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review. Once the review is done, Hydrology will send back an email stating our approval/comments.

NM 87103

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 (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3695 or tchen@cabq.gov.

Sincerely,

Tiequan Chen, P.E.
Principal Engineer, Hydrology
Planning Department, Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: Congress Apartments **Building Permit #:** _____ **Hydrology File #:** C13 D033
DRB#: NA **EPC#:** NA **Work Order#:** NA
Legal Description: Tract 2-D-1 Eagle Ranch
City Address: 9441 Eagle Ranch Road NW Albuquerque, NM 87114 UPC 101306424351021233

Applicant: Lorenz Design & Consulting LLC **Contact:** Dennis Lorenz
Address: 3308 Calle de Daniel NW, Albuquerque, NM 87104
Phone#: 505-220-0869 **Fax#:** _____ **E-mail:** dennisl@lorenznm.com
Owner: Cornerstone Capital LLC **Contact:** Peter Gineris
Address: 6509 Coors Blvd NW, Albuquerque, NM 87120
Phone#: 505-250-4697 **Fax#:** _____ **E-mail:** Peter.Gineris@cbre.com

TYPE OF SUBMITTAL: _____ PLAT (____# OF LOTS) _____ RESIDENCE _____ DRB SITE ☒ ADMIN SITE

IS THIS A RESUBMITTAL?: ☒ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION ☒ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

_____ ENGINEER/ARCHITECT CERTIFICATION
_____ PAD CERTIFICATION
_____ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
_____ DRAINAGE MASTER PLAN
☒ DRAINAGE REPORT
_____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
_____ ELEVATION CERTIFICATE
_____ CLOMR/LOMR
_____ TRAFFIC CIRCULATION LAYOUT (TCL)
_____ TRAFFIC IMPACT STUDY (TIS)
_____ 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) _____

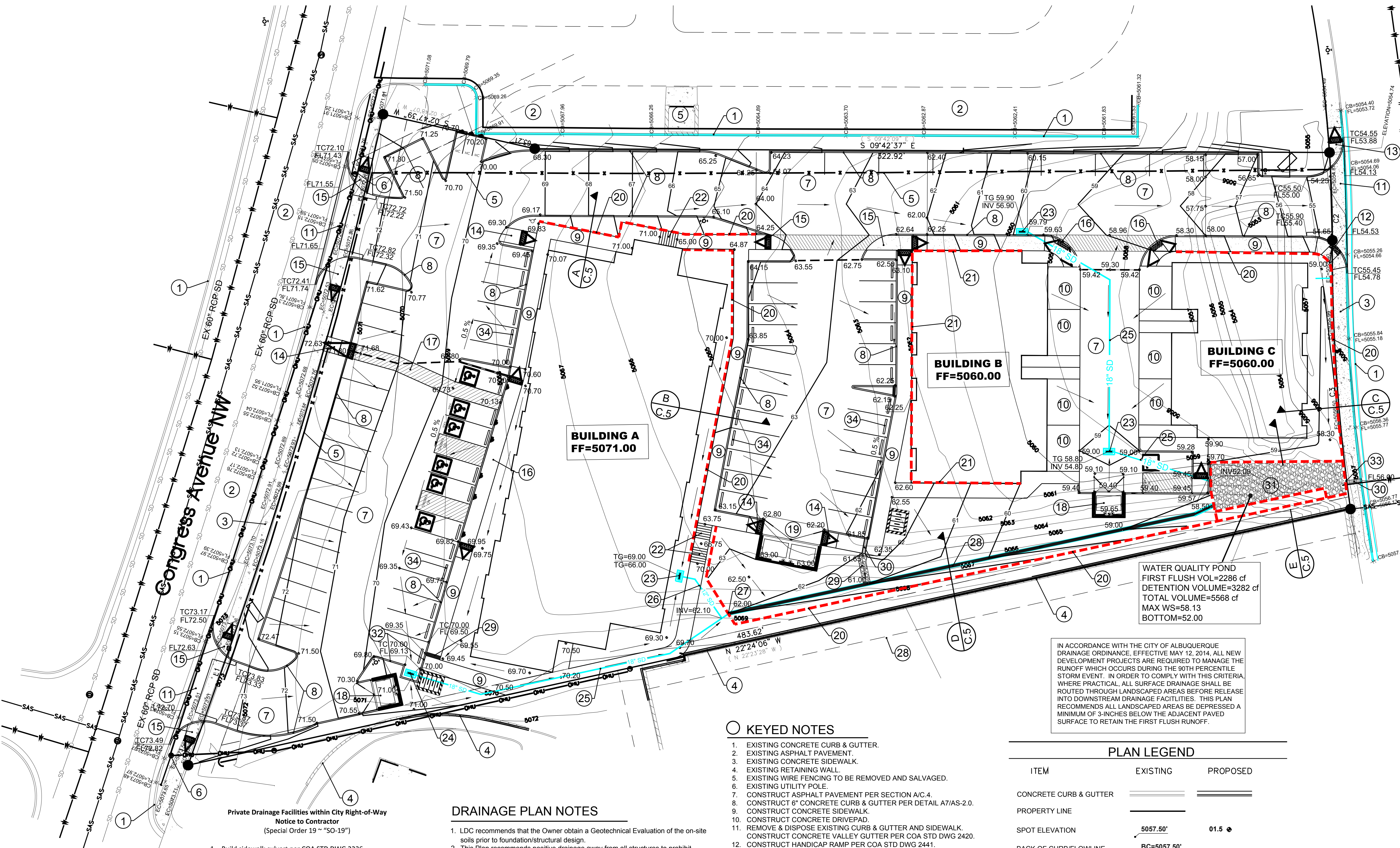
DATE SUBMITTED: March 10, 2023 **By:** Dennis Lorenz PE

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

Eagle Ranch Road NW



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

1. Build sidewalk culvert per COA STD DWG 2236.
2. Contact Storm Maintenance at (505) 857-8033 to schedule a meeting prior to forming.
3. An excavation permit will be required before beginning any work within City Right-Of-Way.
4. 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.
5. Two working days prior to any excavation, the contractor must contact **New Mexico One Call "811"** (or (505) 260-1990) for the location of existing utilities.
6. 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.
7. Backfill compaction shall be according to traffic/street use.
8. Maintenance of the facility shall be the responsibility of the owner of the property being served.
9. Work on arterial streets may be required on a 24-hour basis.
10. Contractor must contact Storm Maintenance at (505) 857-8033 to schedule a construction inspection. For excavating and barricading inspections, contact Construction Coordination at (505) 924-3416.

DRAINAGE PLAN NOTES

1. LDC recommends that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation/structural design.
2. This Plan recommends positive drainage away from all structures to prohibit ponding of runoff which may cause structural settlement. Future alteration of grades adjacent to the proposed structures is not recommended.
3. Irrigation within 10 feet of any proposed structure is not recommended. Introduction of irrigation water into subsurface soils adjacent to the structure could cause settlement.
4. This Plan is prepared to establish on-site drainage and grading criteria only. LDC assumes no responsibility for subsurface analysis, foundation/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 will be required. If the contractor wishes LDC to prepare the Certification, we must be notified PRIOR to placement of the fill.
6. LDC recommends 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. A boundary survey performed by a licensed New Mexico Registered Professional Surveyor is recommended prior to construction.
8. All spot elevations are top of pavement unless noted otherwise.

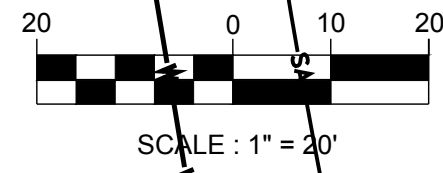
KEYED NOTES

1. EXISTING CONCRETE CURB & GUTTER.
2. EXISTING ASPHALT PAVEMENT.
3. EXISTING CONCRETE SIDEWALK.
4. EXISTING RETAINING WALL.
5. EXISTING WIRE FENCING TO BE REMOVED AND SALVAGED.
6. EXISTING UTILITY POLE.
7. CONSTRUCT ASPHALT PAVEMENT PER SECTION A/C.4.
8. CONSTRUCT 6" CONCRETE CURB & GUTTER PER DETAIL A7/AS-2.0.
9. CONSTRUCT CONCRETE SIDEWALK.
10. CONSTRUCT CONCRETE DRIVEPAD.
11. REMOVE & DISPOSE EXISTING CURB & GUTTER AND SIDEWALK. CONSTRUCT CONCRETE VALLEY GUTTER PER COA STD DWG 2420.
12. CONSTRUCT HANDICAP RAMP PER COA STD DWG 2441.
13. CONSTRUCT HANDICAP RAMP PER COA STD DWG 2426.
14. CONSTRUCT PARALLEL RAMP PER DETAIL A14/AS-2.0.
15. CONSTRUCT PARALLEL RAMP PER DETAIL A11/AS-2.0.
16. CONSTRUCT ACCESSIBLE RAMP PER DETAIL A10/AS-2.0.
17. PEDESTRIAN LINK TO CONGRESS AVENUE.
18. CONSTRUCT SINGLE REFUSE ENCLOSURE PER DETAIL A1/AS-2.0.
19. CONSTRUCT DOUBLE REFUSE ENCLOSURE PER DETAIL A1/AS-2.0.
20. CONSTRUCT RETAINING WALL. SEE PLAN SHEET F/C.5 FOR WALL LOCATIONS AND ELEVATIONS. DESIGN BY OTHERS.
21. CONSTRUCT BUILDING STEMR/RETAINING WALL. DESIGN BY OTHERS.
22. CONSTRUCT CONCRETE STAIRS. DESIGN BY OTHERS.
23. CONSTRUCT SINGLE TYPE 'D' STORM INLET PER COA STD DWG 2206.
24. CONSTRUCT SINGLE TYPE 'D' STORM INLET PER COA STD DWG 2206. SEE DETAIL E/C.4.
25. CONSTRUCT 18" STORM DRAIN.
26. CONSTRUCT 12" STORM DRAIN.
27. PROVIDE 18" STORM DRAIN PENETRATION THROUGH RETAINING WALL. DESIGN BY OTHERS.
28. CONSTRUCT 24" WIDE CONCRETE VALLEY GUTTER PER DETAIL B/C.4.
29. CONSTRUCT ROCK LINED SWALE PER SECTION C/C.4.
30. CONSTRUCT 12" WIDE SIDEWALK CULVERT PER COA STD DWG 2236.
31. INSTALL RIP RAP ROCK ON POND BOTTOM PER DETAIL D/C.4.
32. TRANSITION FROM 6" C&G TO 10" C&G AT STORM INLET.
33. CONSTRUCT WATER QUALITY POND OUTLET PER DETAIL F.C.4.
34. INSTALL WHEEL BUMPERS PER DETAIL A13/AS-2.0.

IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DRAINAGE ORDINANCE, EFFECTIVE MAY 12, 2014, ALL NEW DEVELOPMENT PROJECTS ARE REQUIRED TO MANAGE THE RUNOFF WHICH OCCURS DURING THE 90TH PERCENTILE STORM EVENT. IN ORDER TO COMPLY WITH THIS CRITERIA, WHERE PRACTICAL, ALL SURFACE DRAINAGE SHALL BE ROUTED THROUGH LANDSCAPED AREAS BEFORE RELEASE INTO DOWNSTREAM DRAINAGE FACILITIES. THIS PLAN RECOMMENDS ALL LANDSCAPED AREAS BE DEPRESSED A MINIMUM OF 3-INCHES BELOW THE ADJACENT PAVED SURFACE TO RETAIN THE FIRST FLUSH RUNOFF.

PLAN LEGEND

ITEM	EXISTING	PROPOSED
CONCRETE CURB & GUTTER		
PROPERTY LINE		
SPOT ELEVATION		
BACK OF CURB/FLOWLINE		
CONTOUR W/ ELEVATION		
DIRECTION OF FLOW		
STORM DRAIN		
UTILITY POLE		
OVERHEAD UTILITY		
RETAINING WALL		
CONCRETE		
RIP RAP ROCK		

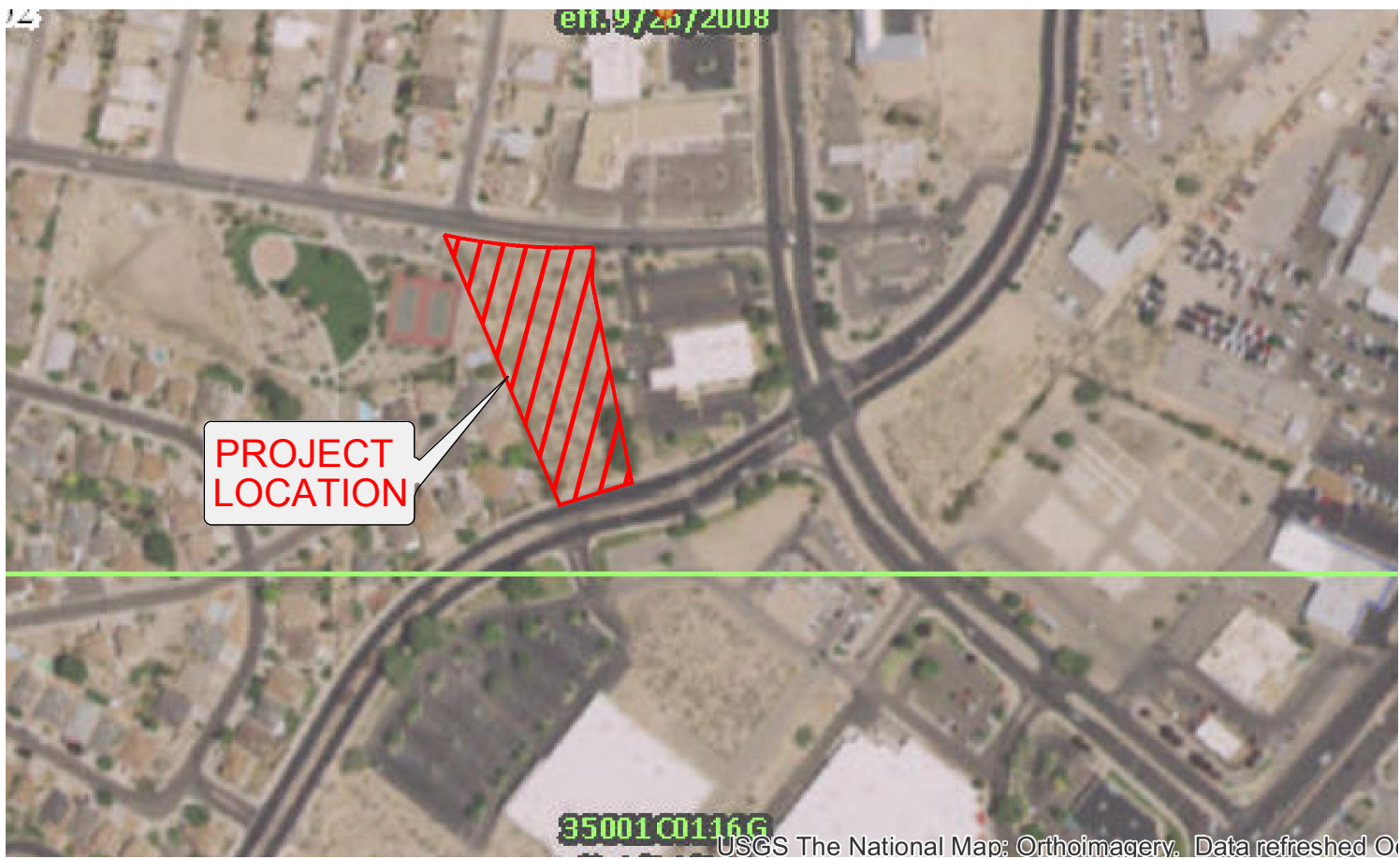


PROJECT DATA

PROPERTY ADDRESS:
EAGLE RANCH ROAD NW
ALBUQUERQUE, NM 87114
LEGAL DESCRIPTION:
TRACT 2-D-1, EAGLE RANCH
SURVEY:
ALL PROJECT SURVEYING BY
HARRIS SURVEYS INC
DATE OF SURVEY: MAY 2022

CONGRESS APARTMENTS
GRADING AND DRAINAGE PLAN

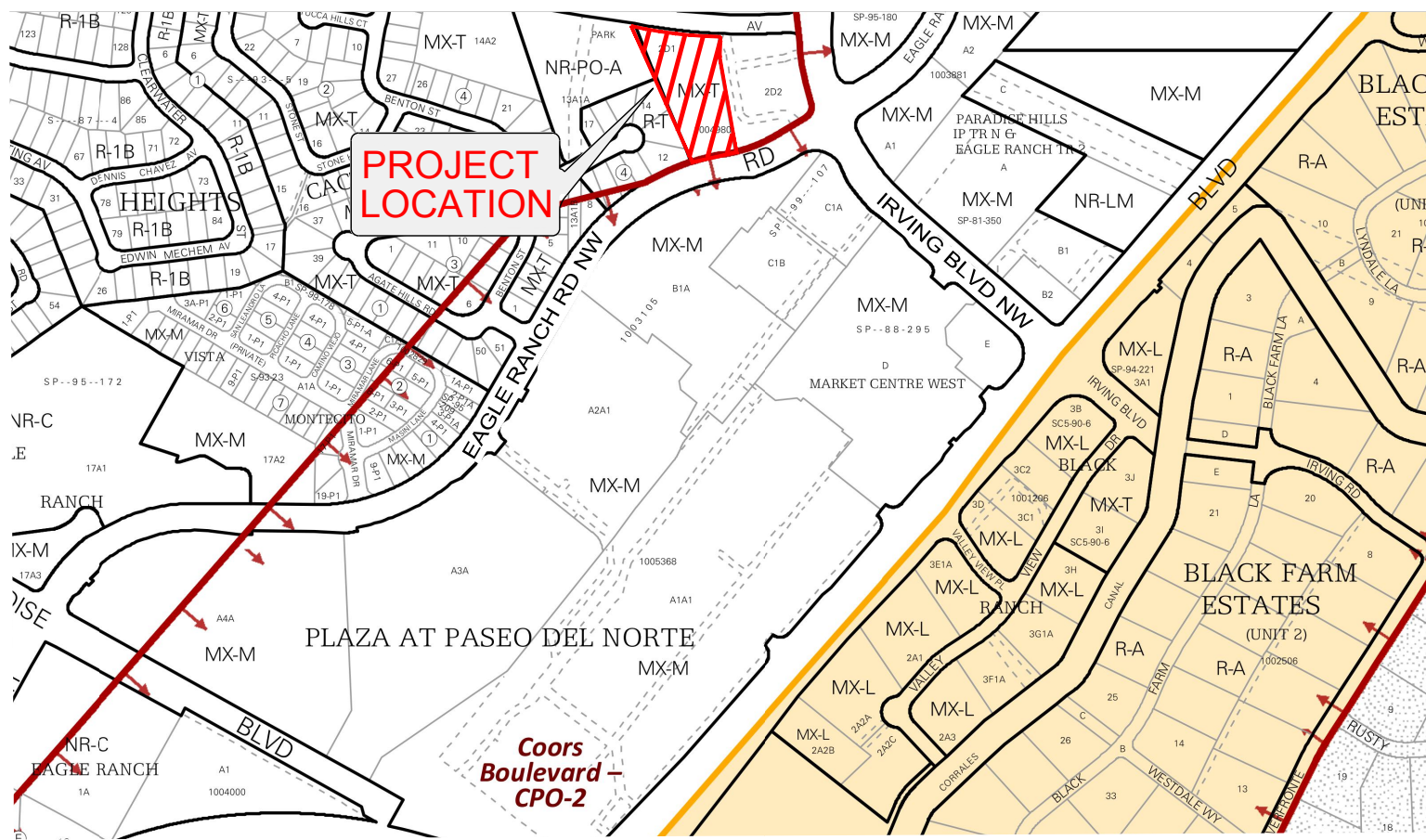




FIRM PANEL

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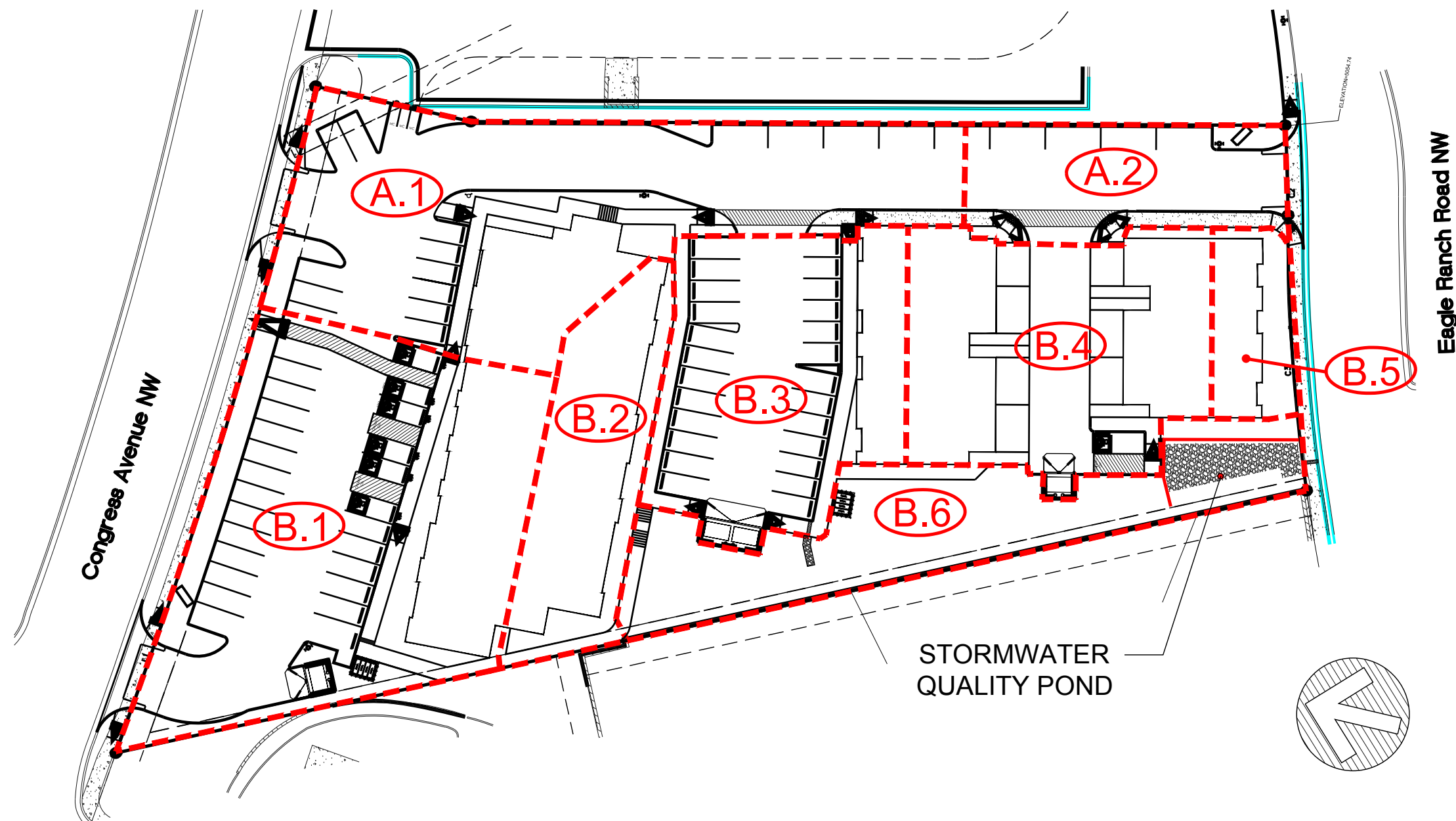
NOT TO SCALE



LOCATION MAP

IDO ZONE ATLAS C-13

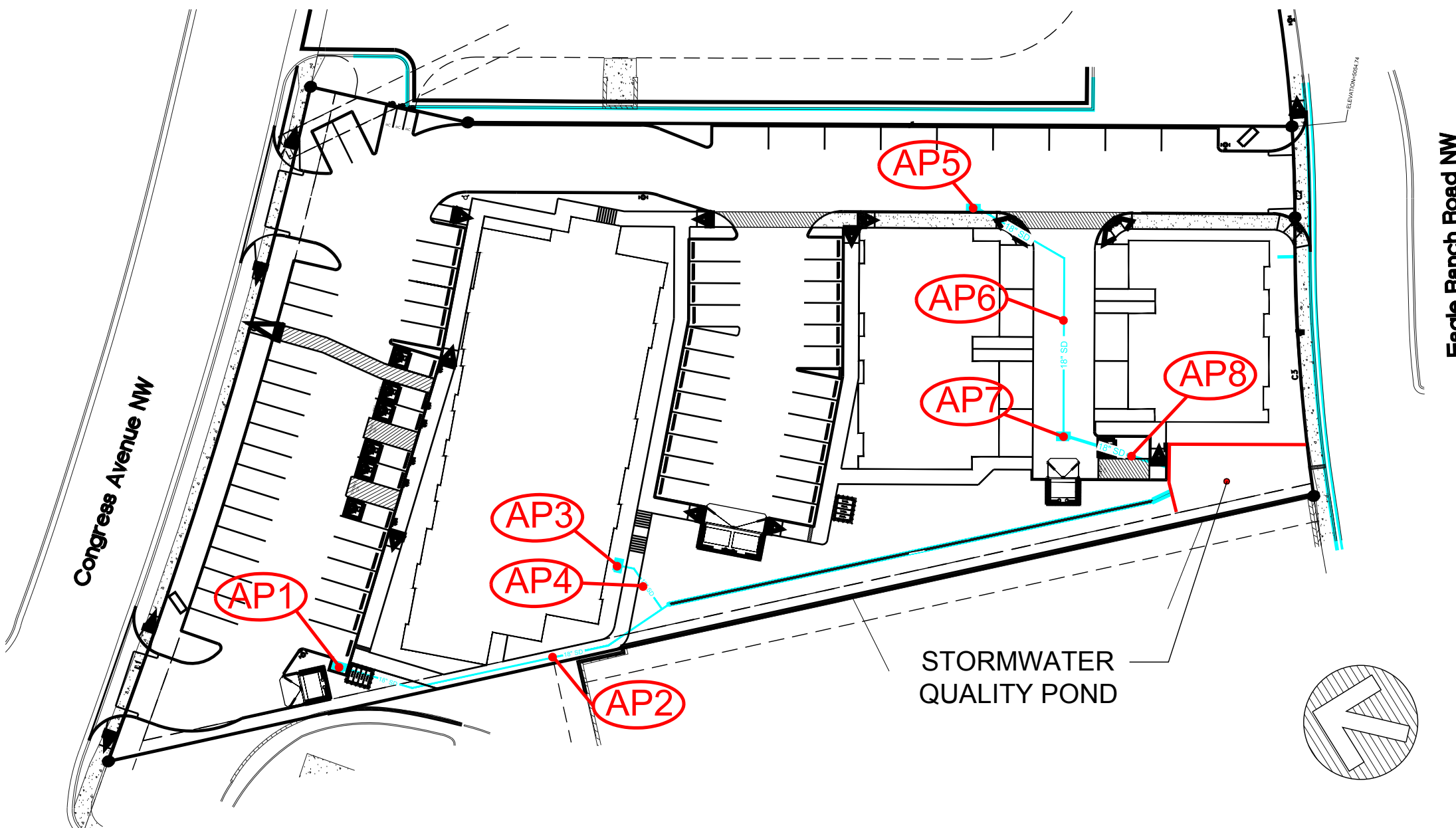
NOT TO SCALE



DRAINAGE BASIN MAP

Not to Scale

A
C.2



DRAINAGE STRUCTURE INVENTORY

Not to Scale

B
C.2

GRADING AND DRAINAGE PLAN

PURPOSE AND SCOPE

Pursuant to the Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Grading and Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. The project consists of the construction of the Congress Apartments, a 49 unit high density infill project. The purpose of this Plan is to provide details required to support building permit and construction, and to provide a detailed drainage study for existing and developed conditions. The scope of this plan is to present grading and drainage criteria for the safe management of excess runoff impacting the site from upstream drainage basins, and controlling excess runoff from the project site in a well-managed, non-erosive manner.

EXISTING CONDITIONS

The property is located on Eagle Ranch Road NW, just west of Irving Blvd NW. The site is presently undeveloped. Site topography slopes to the south and is vegetated by native grasses and shrubs. The site presently drains south into Eagle Ranch Road. Existing public storm drainage improvements collect and convey all runoff east to the Calabacillas Arroyo, located approximately one-half mile from the site.

Properties to the east and west drain to Eagle Ranch Road and the public storm described above. Existing public storm drains located within Congress Avenue protect the site from off site flows originating to the north. As shown by the attached FIRM Panel the site does not lie within a mapped 100 year Flood Zone.

PROPOSED IMPROVEMENTS

As stated above, the site is to be developed as the Congress Apartments. All drainage flows will be managed by grading and drainage improvements recommended by this plan. All excess runoff will be routed through storm drains and landscaping improvements, and a first flush/detention pond prior to discharge to Eagle Ranch Road and downstream public drainage improvements. This is an infill site with very steep grades. All excess runoff will drain south to Eagle Ranch Road. Flows in Eagle Ranch Road drain to Irving Blvd, which drains southeast to Coors Blvd where flows are conveyed to the Calabacillas Arroyo by existing public storm drainage improvements.

The site will provide first flush and detention storage to the extent possible. The site will provide first flush volume of 2,286 cf and detention storage of 3,282 cf for a total of 5,568 cf. The total site discharge of 4.71 cfs, is slightly more the the existing peak flow rate of 4.10 cfs, but below the 5.0 cfs mandated by the City Engineer. Given the existing steep gradients and density proposed on this site, this plan attempts to meet the drainage management criteria required by the DPM to the maximum extent possible.

Construction will disturb an area in excess of 1.0 acres; therefore a Storm Water Pollution Prevention Plan will be required. The SWPPP and an Erosion and Sediment Control Plan will be prepared by others, detailing the erosion control measures required during construction and for the interim period prior to future development of the property.

CALCULATIONS

The calculations shown hereon define the 100-year/6 hour design storm falling within the project area under existing and proposed conditions. Project hydrology and first flush ponding criteria is per "Chapter 6, Development Process Manual, dated June 8, 2020.

SITE PONDING REQUIREMENT

This is an infill site with very steep grades. All excess runoff drains south to Eagle Ranch Road. Flows in Eagle Ranch Road drain to Irving Blvd, which drains southeast to Coors Blvd where flows are managed by existing public storm drainage improvements. The site will provide first flush and detention storage to the maximum extent possible.

Site excess runoff will be managed as follows:

Basin 'A.2' will free discharge to Eagle Ranch Road NW.

Basins A.1 and B will be routed through storm drains and landscaping to a first flush/water quality pond located at the southwest corner of the site. First flush storage of 2,286 cf and detention storage of 3,282 cf will be provided. The remaining runoff will be routed through a perimeter wall, discharging thru a sidewalk culvert to Eagle Ranch Road NW.

TOTAL ONSITE STORAGE PROVIDED

First Flush Storage = 2,286 CF
Detention Pond Storage = 3,282 cf
Total Storage = 5,568 cf

TOTAL DEVELOPED DISCHARGE

Basin A.2 = 0.54 CFS - free discharge to Eagle Ranch Road
Basin B = 4.17 cfs - routed through SWQ Pond
Total Developed Discharge = 4.71 cfs - Less than 5.0 cfs allowed

Qp=6.57 cfs

Qp=4.17 cfs

FIRST FLUSH
STORAGE = 2286 cf

DETENTION POND
STORAGE = 2962 cf

DISCHARGE THRU
POND OUTLET

Tp=0.21 hrs

Tb=0.85 hrs

DETENTION POND HYDROGRAPH

Not to Scale

C
C.2



PROJECT HYDROLOGY CONGRESS APARTMENTS AHYMO

ZONE:	1								
P ₂ HOUR	2.17								
P ₁₀ DAY	3.90								
EXISTING CONDITIONS									
BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)	
SITE	1.90	0.00	1.90	0.00	0.00	0.73	4.10	0.116	
PROPOSED CONDITIONS									
BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)	
SITE	1.90	0.00	0.31	0.09	1.50	1.93	7.11	0.306	
A	0.55	0.00	0.03	0.04	0.48	2.06	2.16	0.095	
A.1	0.42	0.00	0.02	0.03	0.36	2.07	1.61	0.073	
A.2	0.13	0.00	0.01	0.01	0.12	2.04	0.54	0.022	
B	1.35	0.00	0.28	0.05	1.02	1.88	4.95	0.211	
B.1	0.44	0.00	0.04	0.03	0.37	2.01	1.70	0.074	
B.2	0.15	0.00	0.02	0.01	0.12	1.95	0.57	0.024	
B.3	0.25	0.00	0.00	0.01	0.24	2.19	1.02	0.046	
B.4	0.25	0.00	0.00	0.00	0.25	2.24	1.03	0.047	
B.5	0.05	0.00	0.01	0.00	0.04	1.94	0.19	0.008	
B.6	0.21	0.00	0.21	0.00	0.00	0.73	0.45	0.013	

FIRST FLUSH CRITERIA

By ordinance the site is required to retain the 90th percentile rainfall depth. In order to comply with this criterion, where practical, all surface areas will be routed through landscaped areas before release to downstream public drainage facilities. In addition to the volume within the landscaped areas, excess runoff will be stored within the proposed Water Quality Pond. Storage in excess of the 90th percentile rainfall will be provided as illustrated below.

90th percentile depth 0.42"

Site Area Type D (Ad) = 1.50 ac.

Storage requirement = Ad(0.42") = 1.50 ac(43,560 sf/ac)(0.42"/12")/ft = 2,286 cf

First flush storage to be provided within the Basin A water quality pond and onsite landscaping improvements.

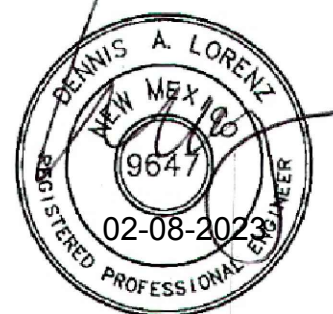
ANALYSIS POINT	CONTRIB BASINS	Q100 cfs	DRAINAGE STRUCTURE	PIPE SLOPE %	CAPACITY cfs
1	B.1	1.70	TYPE D INLET	NA	5.5
2	B.1	1.70	18" SD	3.0	12.2
3	B.2	0.57	TYPE D INLET	NA	5.5
4	B.2	0.57	12" SD	16.0	9.6
5	B.1+B.2	2.27	18" SD	3.0	12.2
6	A.1	1.61	TYPE D INLET	NA	5.5
7	A.1	1.61	18" SD	2.4	10.9
8	B.4	1.03	TYPE D INLET	NA	5.5
9	A.1+B.4	2.64	18" SD	6.7	18.2

POND STORAGE TABLE			
ELEVATION	AREA (sf)	VOL (cf)	VOL (ac-ft)
52.00	830	0	0.0000
53.00	830	830	0.0191
54.00	830	1660	0.0381
55.00	830	2490	0.0572
56.00	830	3320	0.0762
57.00	830	4150	0.0953
58.13	1010	5070	0.1164

POND VOLUME PROVIDED

Total Volume Required = 5,248 cf
Volume Provided to Pond bottom @ 52.00 = 5,070 CF
Volume within 2' layer of 6" fractured rock below pond bottom @ 30% void ratio = 498 cf
Total Storage Provided = 5,568 cf

CONGRESS APARTMENTS GRADING AND DRAINAGE PLAN



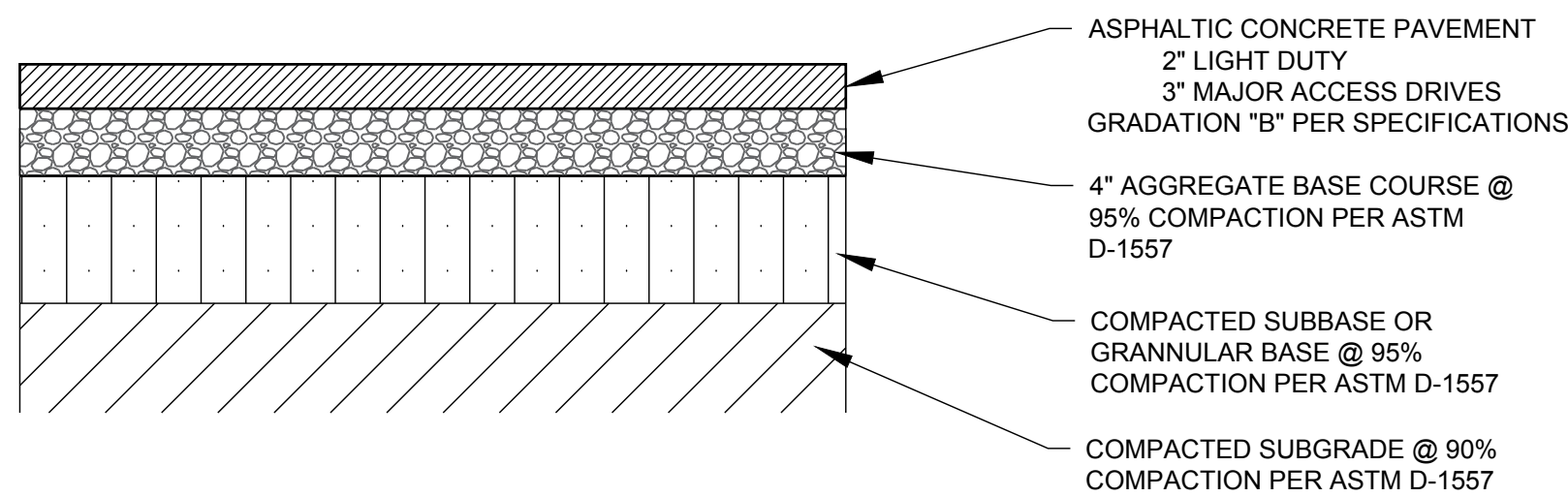
LORENZ
DESIGN & CONSULTING, LLC
Civil Engineering & Construction Management

3308 Calle de Daniel NW
Albuquerque, New Mexico 87104
Ph: 505-888-6088

DRAWN BY: DAL
CHECKED BY: DAL
FILE: 21-003

DATE: FEBRUARY 2023

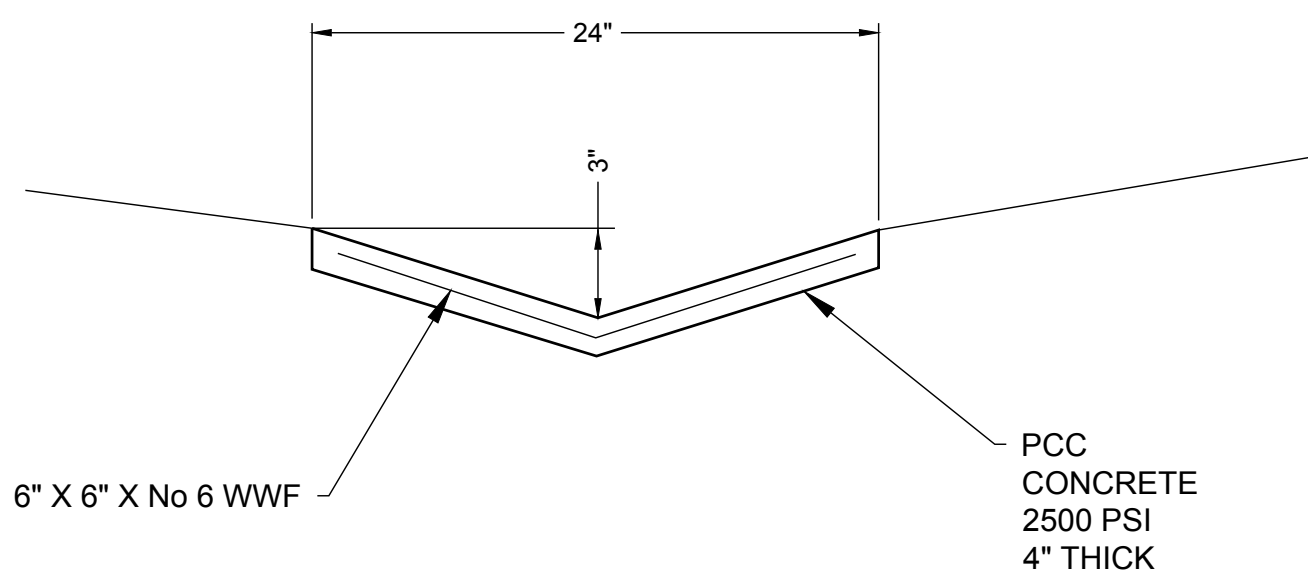
C.2



FOR PAVEMENT DESIGN SEE:
GEOTECHNICAL EVALUATION REPORT FOR CONGRESS APARTMENTS

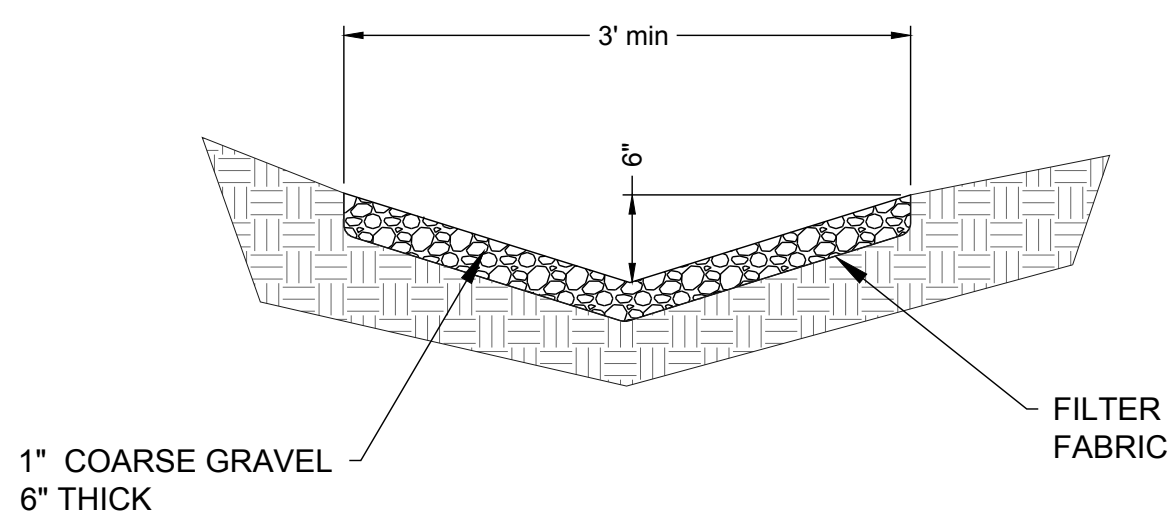
ASPHALT PAVEMENT SECTION
NTS

A
C.4



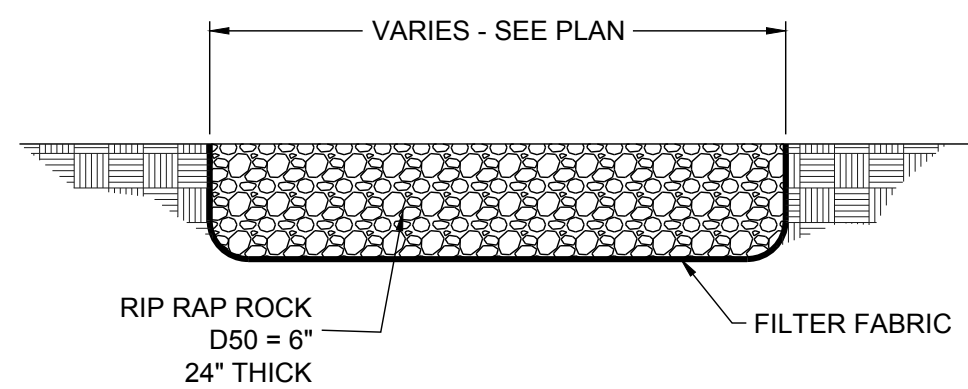
VALLEY GUTTER DETAIL
NTS

B
C-4



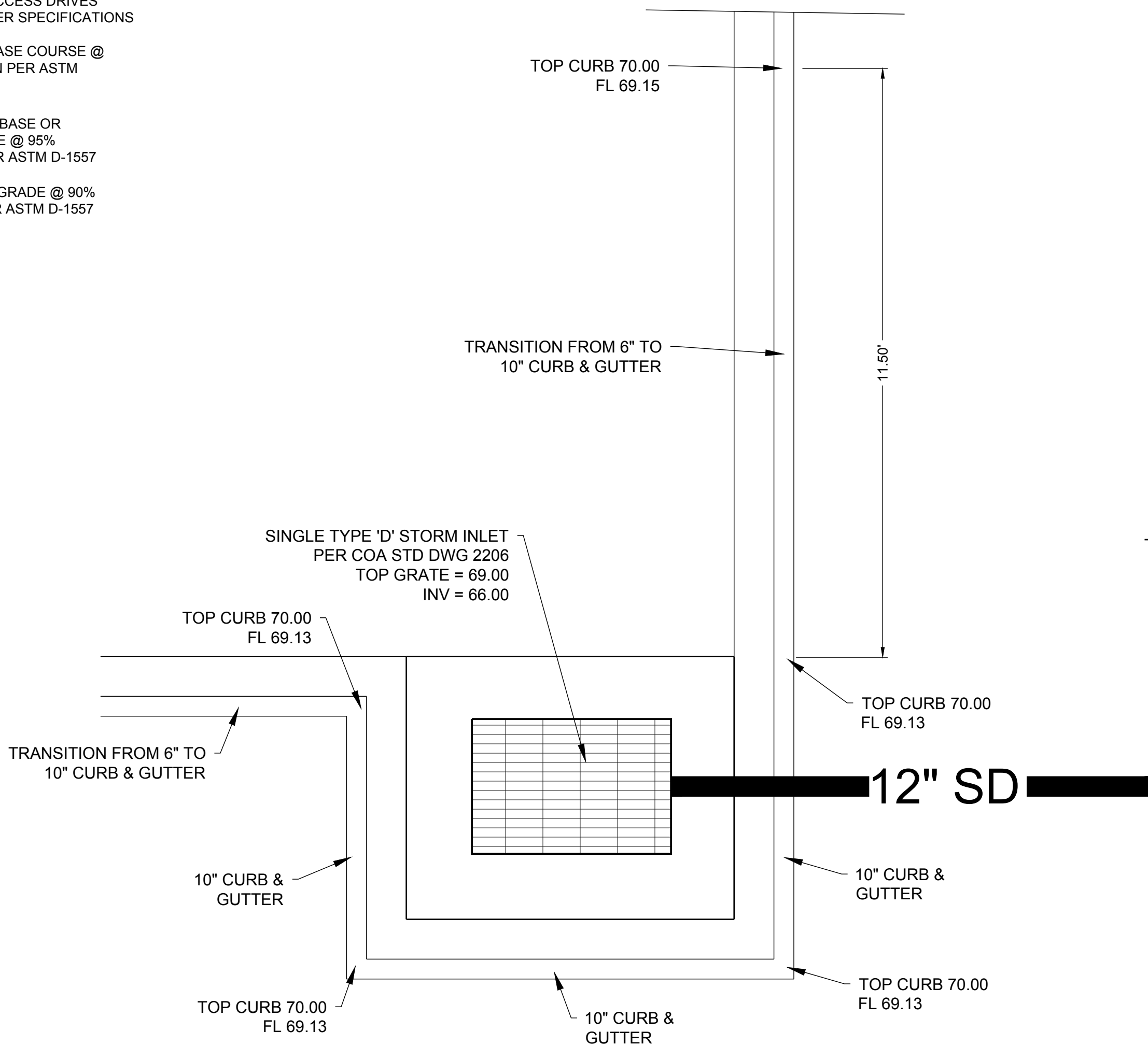
ROCK LINED SWALE SECTION
NTS

C
C.4



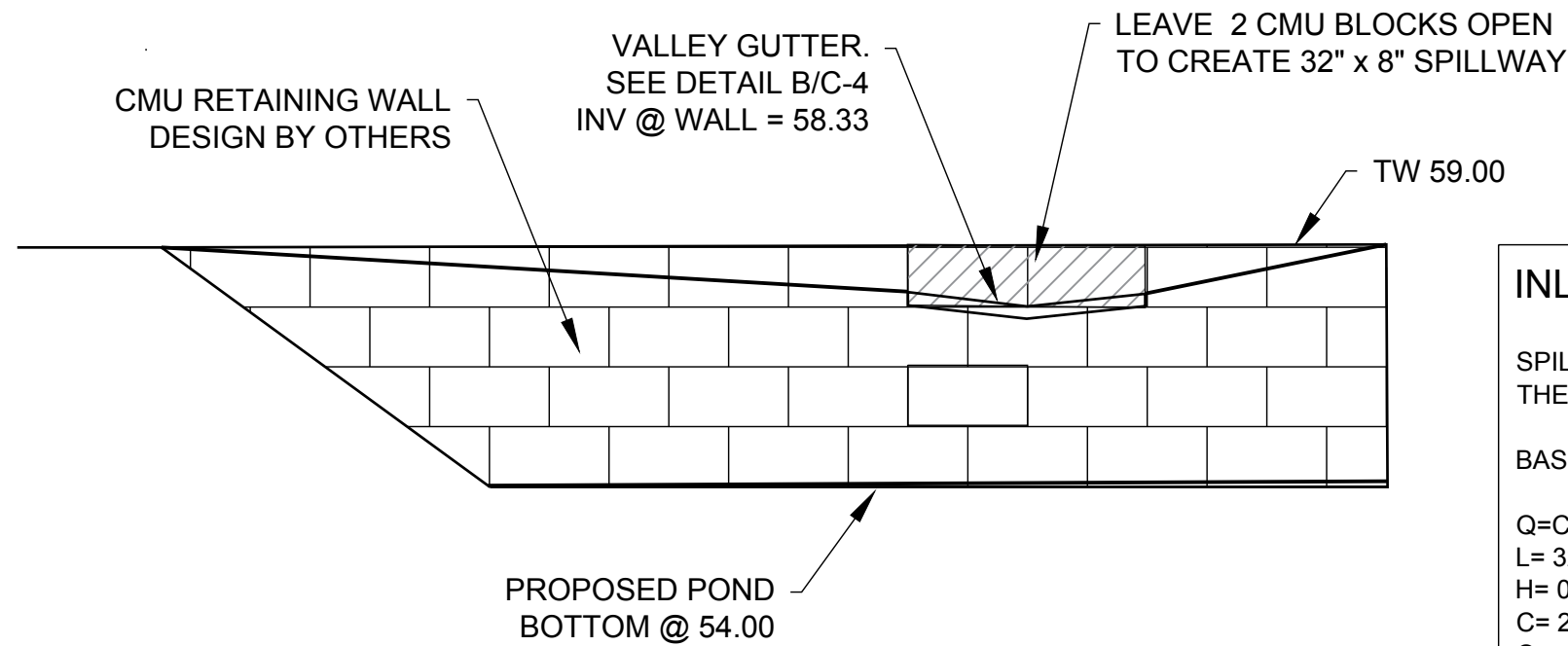
RIP RAP @ POND BOTTOM
NTS

D
C.4



STORM INLET DETAIL
NTS

E
C.4



INLET SPILLWAY CAPACITY

SPILLWAY CAPACITY IS DETERMINED BY
THE WEIR EQUATION:

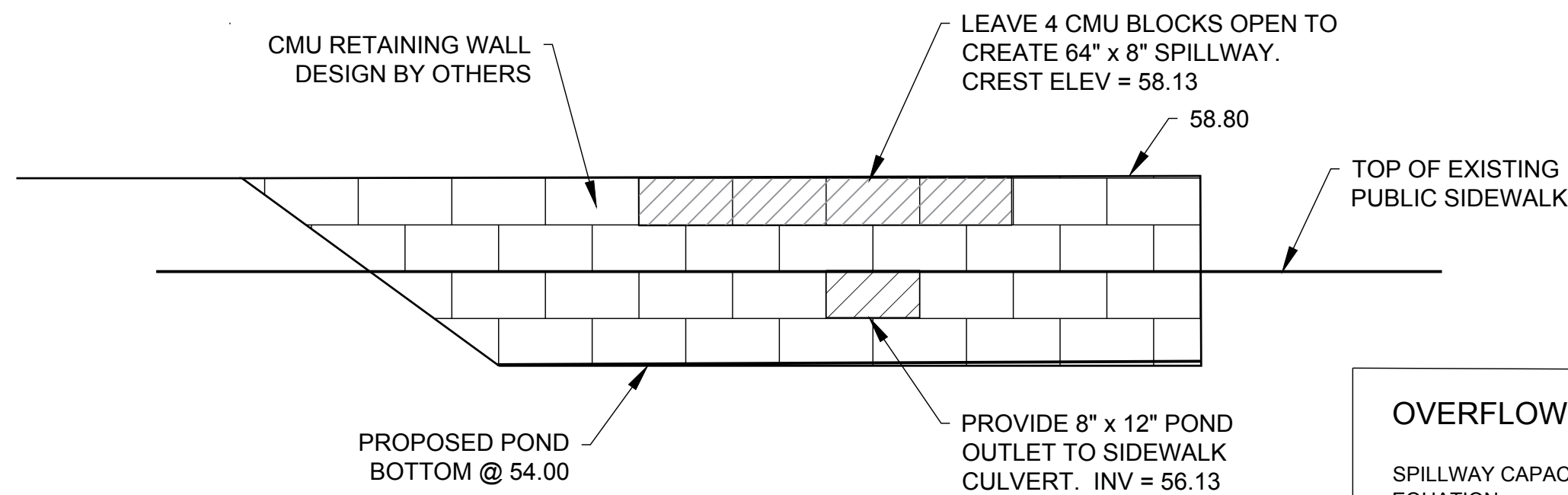
BASIN B.3+B6 Q100 = 1.47cfs

$Q = CLH^{3/2}$
L = 32" = 2.67'
H = 0.67 FT
C = 2.70
Qmax = 4.0 cfs

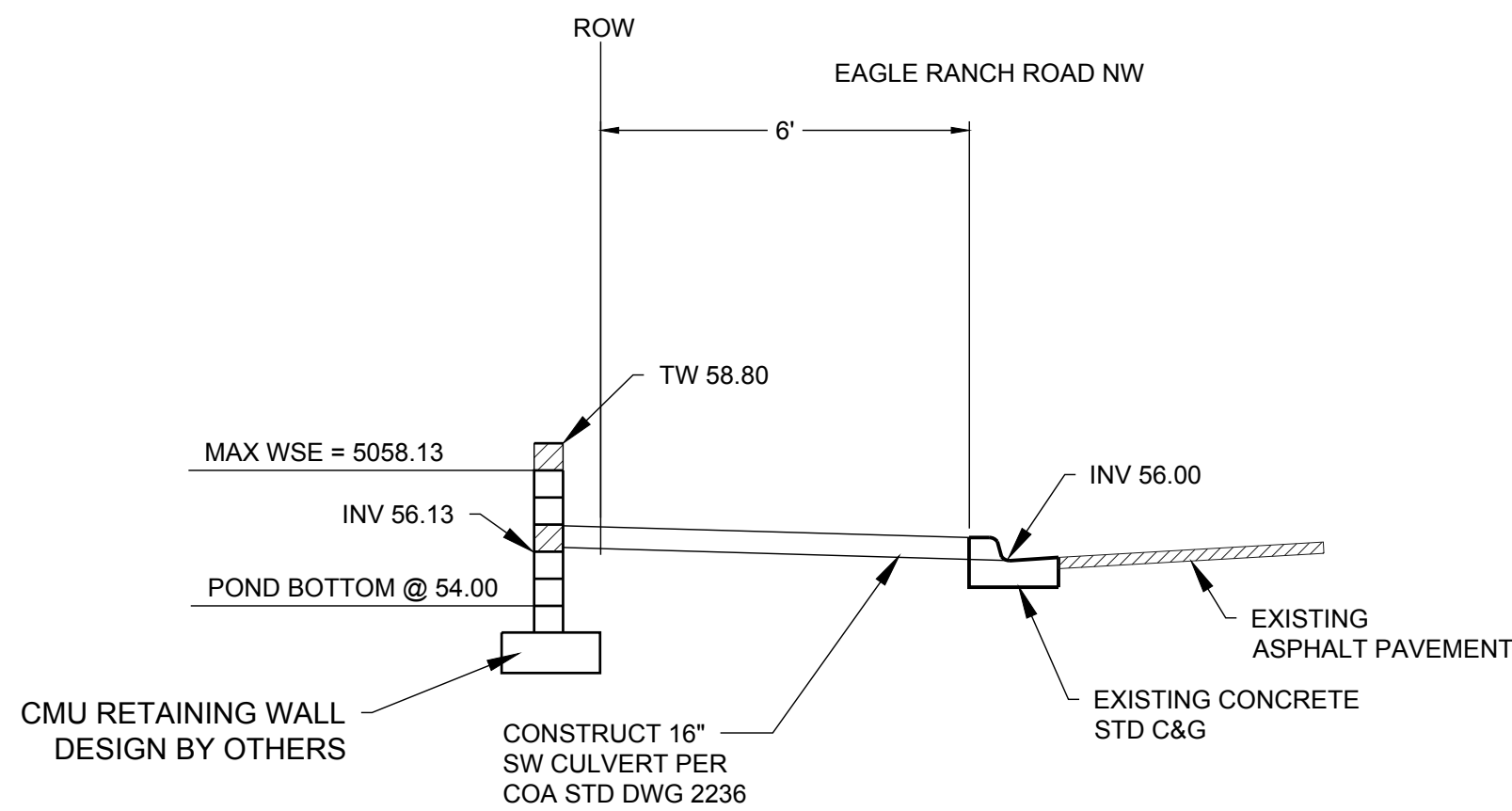
CULVERT CAPACITY EXCEEDS Q100

WATER QUALITY POND INLET @ SWALE
NTS

G
C.4



ELEVATION



SECTION

WATER QUALITY POND OUTLET
NTS

F
C.4

OVERFLOW SPILLWAY CAPACITY

SPILLWAY CAPACITY IS DETERMINED BY THE WEIR
EQUATION:

Q100 INTO POND = 6.57 cfs

$Q = CLH^{3/2}$
L = 64" = 5.33'
H = 0.67 FT
C = 2.70
Qmax = 7.9 cfs

SPILLWAY CAPACITY EXCEEDS Q100

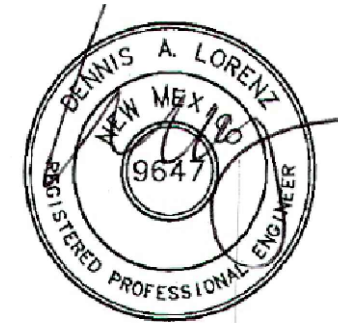
POND OUTLET CAPACITY

CULVERT CAPACITY IS DETERMINED BY THE ORIFACE
EQUATION:

Qp POND OUT MAX = 4.46 CFS

ORIFACE 8" X 12"
 $Q = CA(2gH)^{1/2}$
C = 0.6
A = 0.67 SF
H = 1.67'
Qout = 4.17 cfs LESS THAN Q ALLOWABLE (4.46 CFS)

**CONGRESS APARTMENTS
SITE DETAILS**



LORENZ
DESIGN & CONSULTING, LLC
Civil Engineering | Construction Management

3308 Calle de Daniel NW
Albuquerque, New Mexico 87104
Ph: 505-888-6088

DRAWN BY: DAL

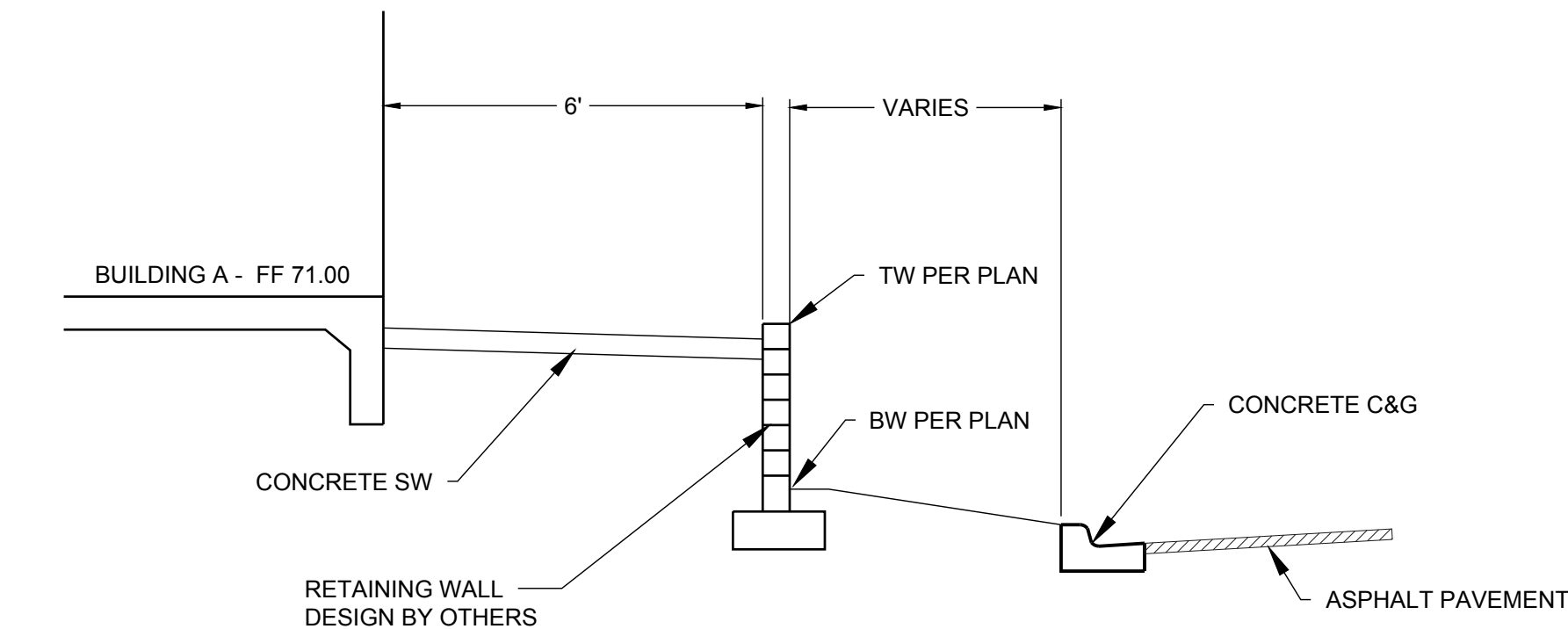
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FILE: 21-003

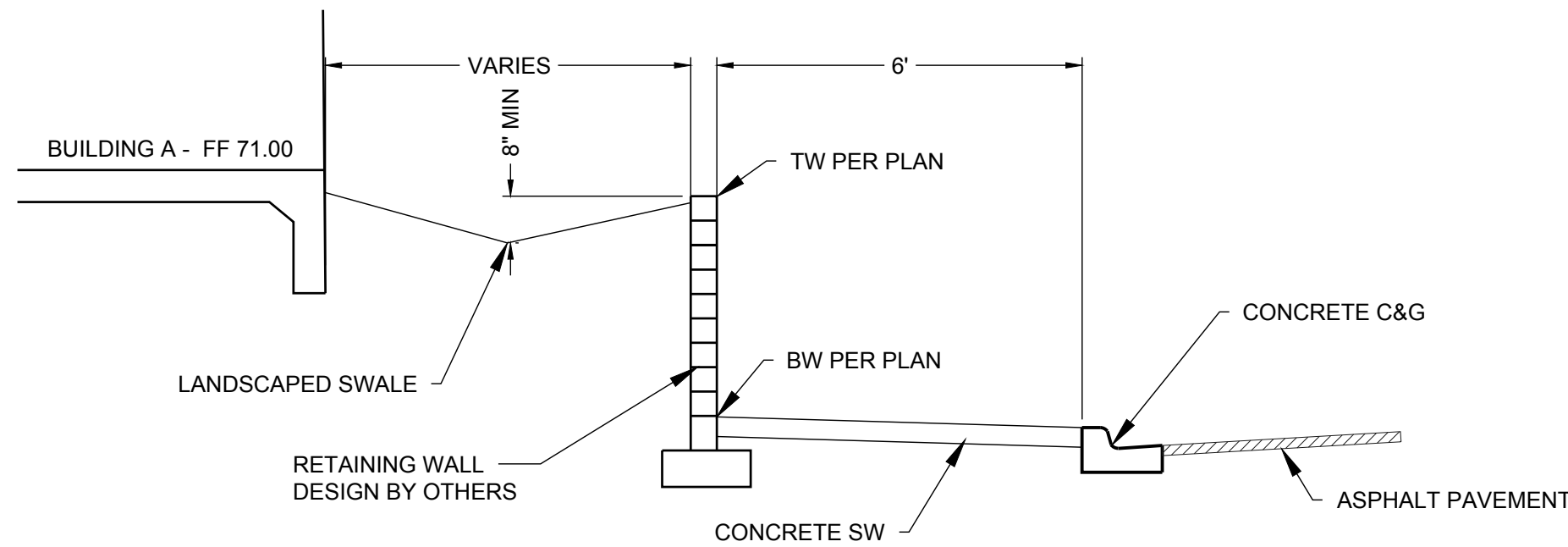
DATE: FEBRUARY 2023

C.4

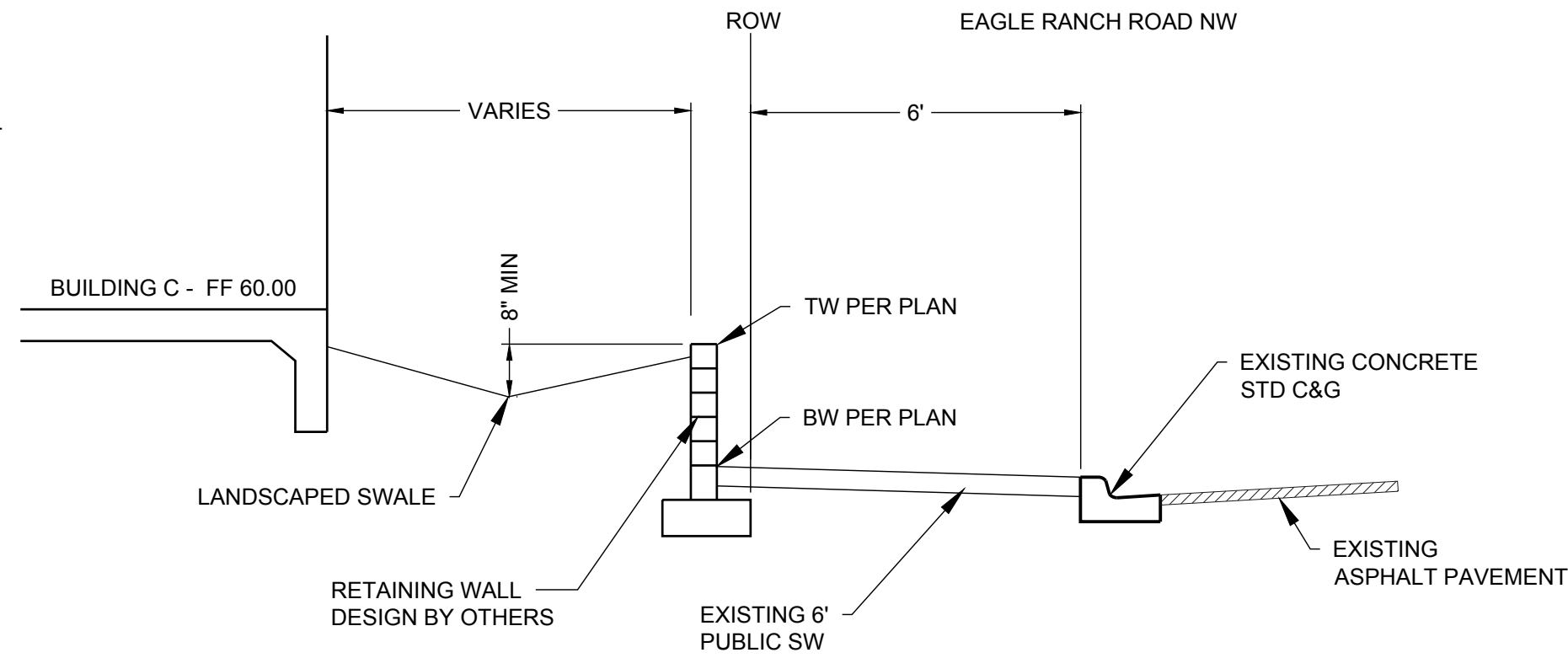
City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 3/10/2023
BY: *Lucas Cho*
HydroTeam # C13D033
THE APPROVAL OF THIS PLAN/SHEET SHALL NOT BE
CONSIDERED TO PERMIT VIOLATIONS OF ANY CITY,
COUNTY, STATE OR FEDERAL LAW, AND SHALL NOT PREVENT
THE CITY OF ALBUQUERQUE FROM ENFORCEING
CORRECTIONS OR ENFORCEMENT OF ANY
SPECIFICATIONS OR CONDITIONS IN ANY
SHEETS, SPECIFICATIONS, OR CONTRACTS. THIS APPROVAL
SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT
AUTHORIZATION.



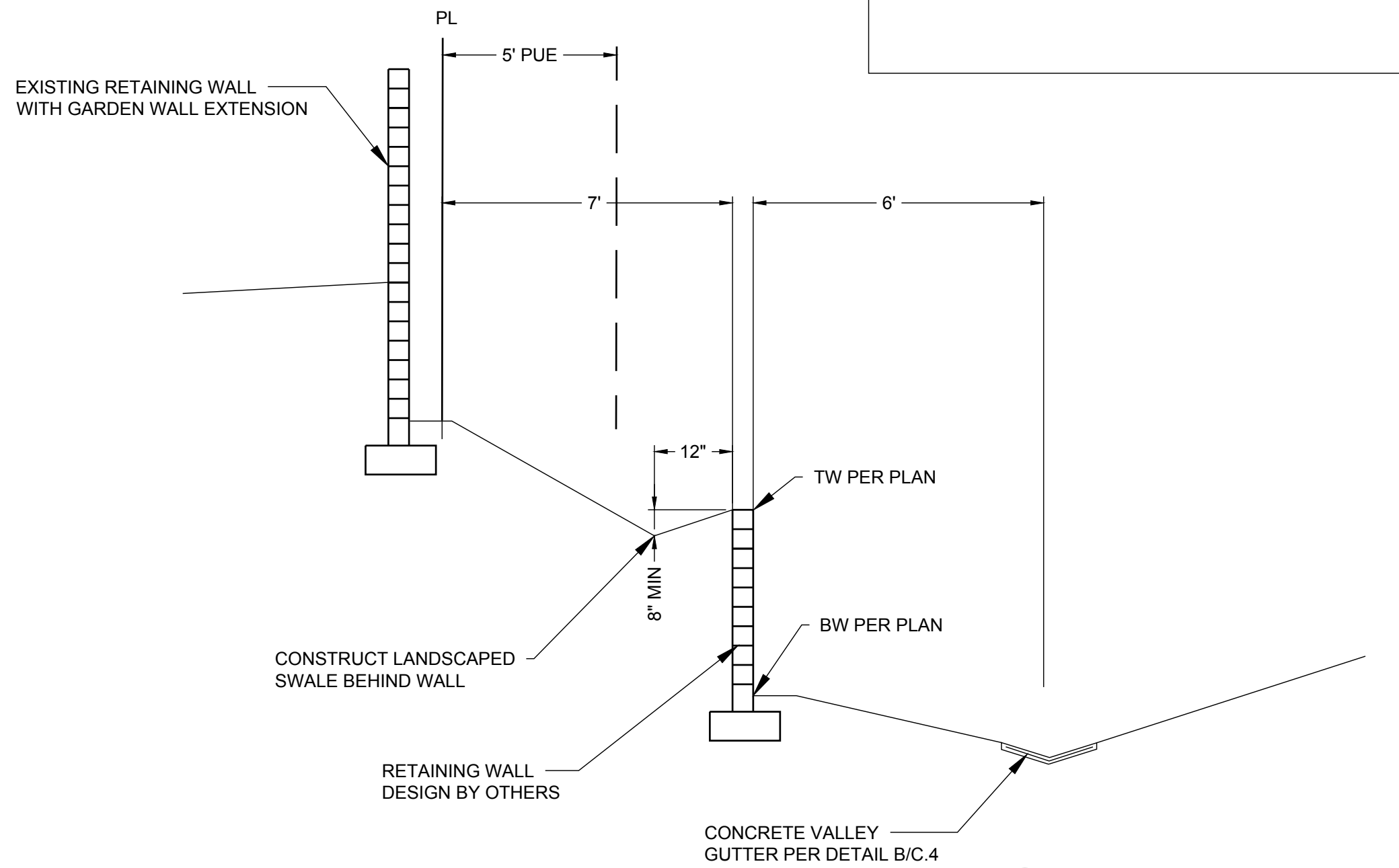
SECTION A
NTS C.5



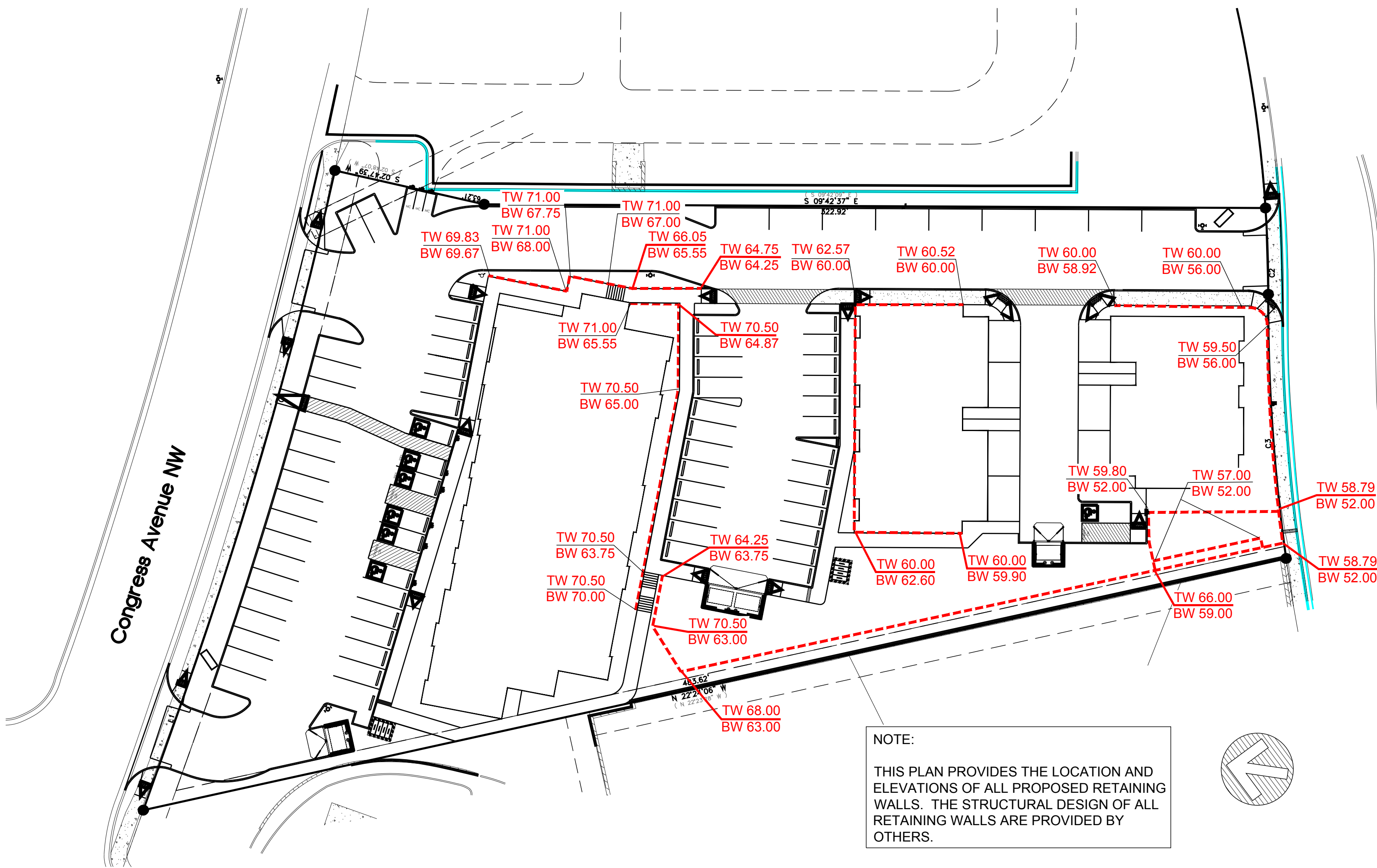
SECTION B
NTS C.5



SECTION C
NTS C.5

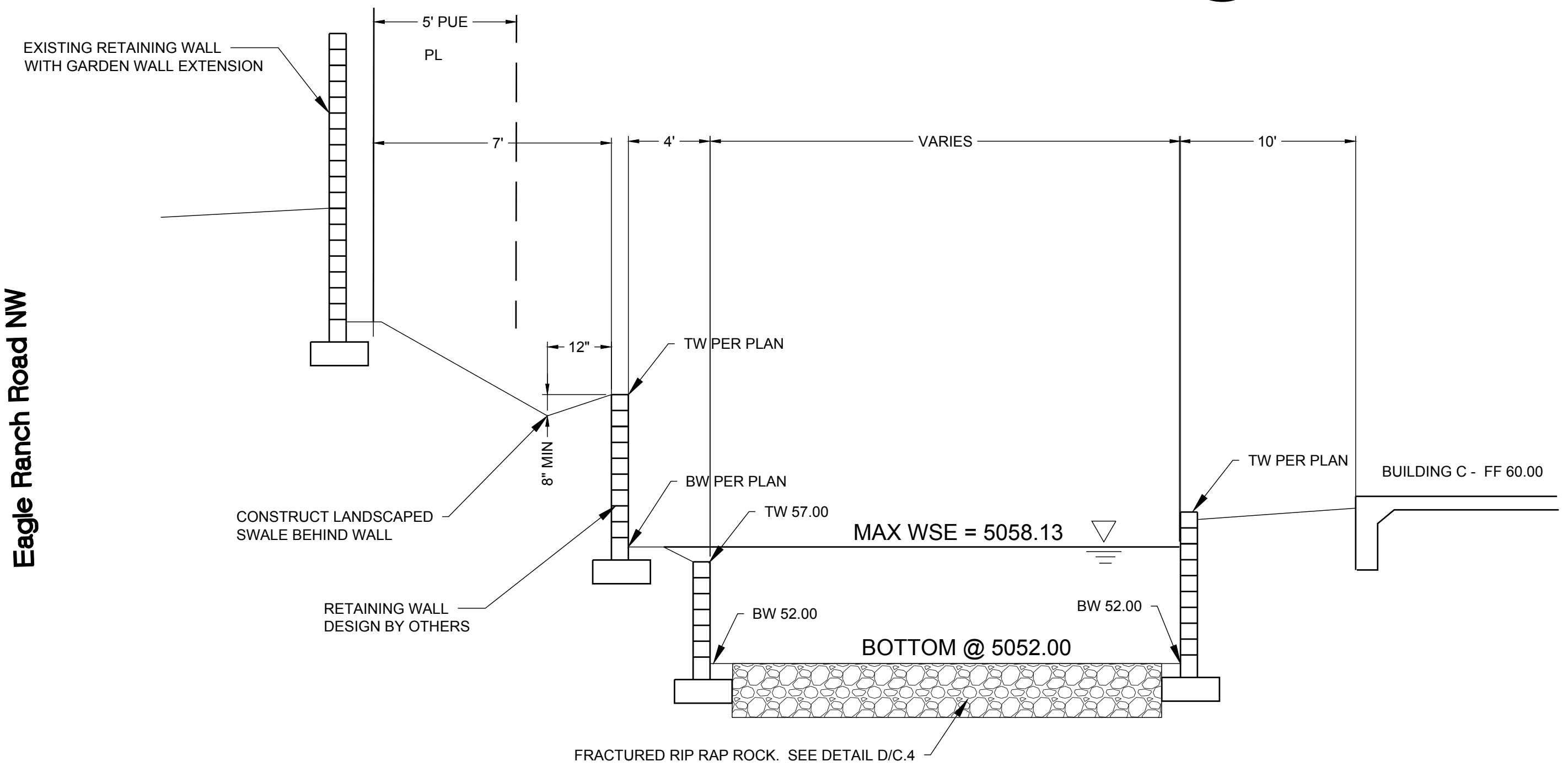


SECTION D
NTS C.5



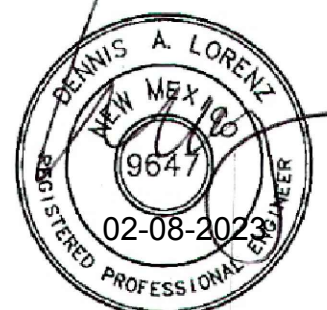
RETAINING WALL PLAN F
NTS C.5

NOTE:
THIS PLAN PROVIDES THE LOCATION AND ELEVATIONS OF ALL PROPOSED RETAINING WALLS. THE STRUCTURAL DESIGN OF ALL RETAINING WALLS ARE PROVIDED BY OTHERS.



SECTION E
NTS C.5

CONGRESS APARTMENTS
SITE DETAILS



LORENZ
DESIGN & CONSULTING, LLC
Civil Engineering & Construction Management

3308 Calle de Daniel NW
Albuquerque, New Mexico 87104
Ph: 505-888-6088

DRAWN BY: DAL
CHECKED BY: DAL
FILE: 21-003

DATE: FEBRUARY 2023
C.5