301

# TIERRA WEST, LLC

# Brad Frosch Construction Inspector

# 263-5808

5571 Midway Park Pl. NE Albuquerque, NM 87109

(505) 858-3100 fax (505) 858-1118 1-800-245-3102 bfrosch@tierrawestllc.com

# Capacity of a Single 'C' Storm Drop Inlet Inlet 'CI-5'

# Capacity of the grate:

L = 
$$40" - 2(2"_{ends}) - 7(\frac{1}{2}"_{middle \ bars})$$
  
=  $32 \ 1/2"$   
=  $2.7083'$   
W =  $25" - 13(\frac{1}{2}"_{middle \ bars})$   
=  $18.5"$   
=  $1.54'$   
Area =  $2.7083' \times 1.54'$   
=  $4.18 \ \text{ft}^2$   
Effective Area =  $4.18 - 4.18 \times 0.5 \ \text{(clogging factor)}$   
=  $2.09 \ \text{ft}^2$  at the grate

# Orifice Equation

Q = CA sqrt(2gH) Q = 0.6\*2.09\*sqrt(2\*32.2\*0.72)Q = 8.54 cfs

# **Capacity of the Throat:**

L = 
$$2.95$$
'

H =  $10 \frac{3}{4}$ " -  $4 \frac{1}{2}$ "

=  $6 \frac{1}{4}$ "

=  $0.5208$ '

Area =  $2.95$ ' x  $0.5208$ '

=  $1.54$  ft<sup>2</sup> at the throat

## **Weir Equation**

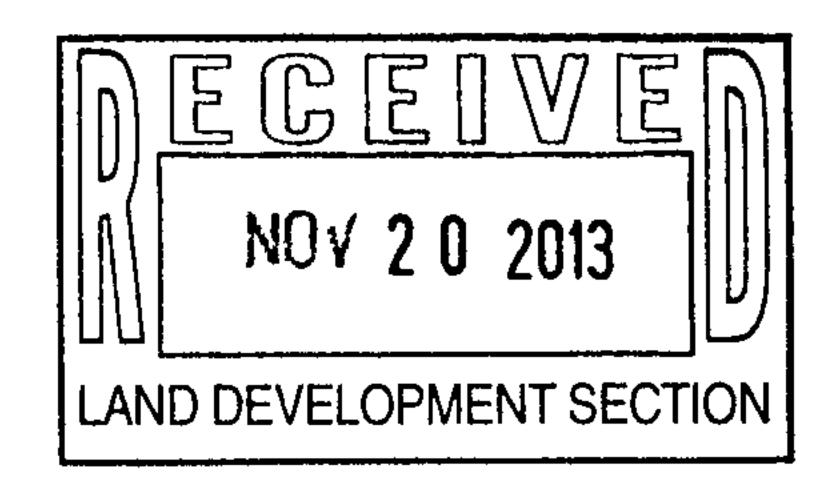
 $Q = CLH^{(3/2)}$   $Q = 2.95 * 1.54 * 0.90^{(3/2)}$ Q = 3.87 cfs

## **Total Capacity:**

$$Q_{cap} = 8.54_{grate} + 3.87_{throat}$$

$$Q_{cap} = 12.41 \text{ cfs}$$

$$Q_{req} = 10.68 \text{ cfs} \text{ (Revised 11/20/13)}$$
Inlet Checks OK



# Capacity of a Double 'C' Storm Drop Inlet Inlet 'CI-6'

## Capacity of the grate:

L = 80" - 2(2"<sub>ends</sub>) - 14(
$$\frac{1}{2}$$
" middle bars) - 6" center piece  
= 66 1/2"  
= 5.25'

W = 25" - 13( $\frac{1}{2}$ " middle bars)  
= 18.5"  
= 1.54'

Area = 5.25' x 1.54'  
= 8.09 ft<sup>2</sup>

Effective Area = 8.09- 8.09 \* 0.5 (clogging factor)  
= 4.04 ft<sup>2</sup> at the grate

# **Orifice Equation**

 $Q = CA \ sqrt(2gH)$  Q = 0.6\*4.04\*sqrt(2\*32.2\*0.72) $Q = 16.51 \ cfs$ 

# **Capacity of the Throat:**

L = 
$$6.50$$
'

H =  $10^{3}4$ " -  $4^{1}2$ "

=  $6^{1}4$ "

=  $0.5208$ '

Area =  $6.50$ ' x  $0.5208$ '

=  $3.39$  ft<sup>2</sup> at the throat

### **Weir Equation**

 $Q = CLH^{(3/2)}$   $Q = 2.95 * 3.39 * 0.90^{(3/2)}$ Q = 8.54 cfs

## **Total Capacity:**

$$Q_{cap} = 16.51_{grate} + 8.54_{throat}$$

$$Q_{cap} = 25.05 \text{ cfs}$$

$$Q_{req} = 13.11 \text{ cfs} \text{ (Revised 11/20/13)}$$
Inlet Checks OK



# Capacity of a Double 'C' Storm Drop Inlet Inlet 'CI-14'

## Capacity of the grate:

L = 
$$80" - 2(2"_{ends}) - 14(\frac{1}{2}"_{middle bars}) - 6"_{center piece}$$
  
=  $66 \frac{1}{2}"_{ends}$  =  $5.25'$   
W =  $25" - 13(\frac{1}{2}"_{middle bars})$   
=  $18.5"_{ends}$  =  $1.54'$   
Area =  $5.25' \times 1.54'_{ends}$  =  $8.09 \times 0.5 \times 0.5$ 

## **Orifice Equation**

 $Q = CA \ sqrt(2gH)$  Q = 0.6\*4.04\*sqrt(2\*32.2\*0.72) $Q = 16.51 \ cfs$ 

# **Capacity of the Throat:**

L = 
$$6.50$$
'

H =  $10 \frac{3}{4}$ " -  $4 \frac{1}{2}$ "

=  $6 \frac{1}{4}$ "

=  $0.5208$ '

Area =  $6.50$ ' x  $0.5208$ '

=  $3.39 \text{ ft}^2$  at the throat

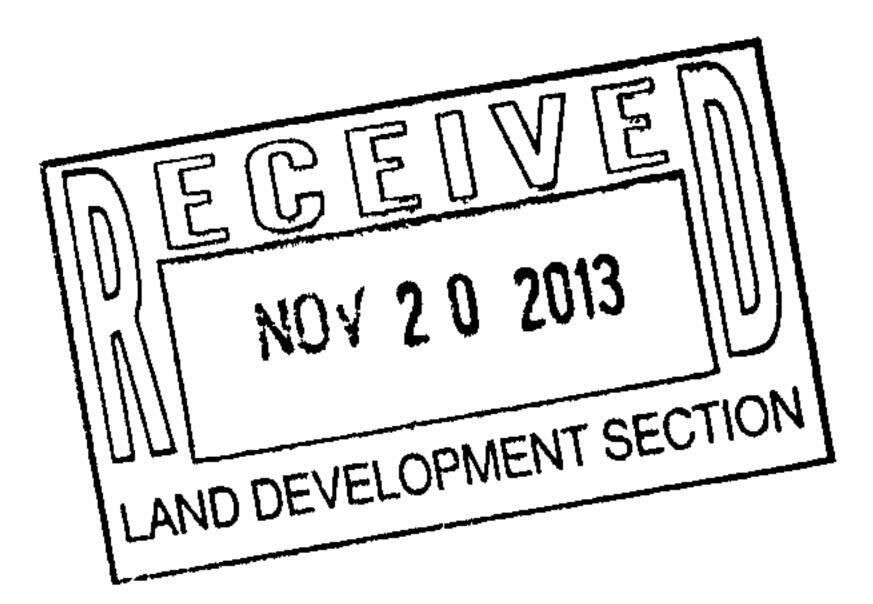
### **Weir Equation**

 $Q = CLH^{(3/2)}$   $Q = 2.95 * 3.39 * 0.90^{(3/2)}$ Q = 8.54 cfs

# **Total Capacity:**

$$Q_{cap} = 16.51_{grate} + 8.54_{throat}$$
 $Q_{cap} = 25.05 \text{ cfs}$ 
 $Q_{req} = 11.45 \text{ cfs}$  (Revised 11/20/13)

Inlet Checks OK



DPM Weighted E Method

Precipitation Zone 2

Capstone Student Housing

I-25 and Sunport Blvd SE

TWLLC/JW, PE

6-Jun-13 Rev 20-Jun-13

**Existing Conditions** 

	Basin Descriptions										100-Year, 6-Hr			10-Year, 6-Hr			
Basin	Area	Area	Area	Treat	ment A	Treat	ment B	Treat	ment C	Treat	ment D	Weighted E	Volume	Flow	Weighted E	Volume	Flow
ID,	(sf)	(acres)	(sq miles)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)	(ac-ft)	cfs
Ex-A1	237,886.14	5.46	0.00853	0%	0	0%	0.000	100%	5.461114	0%	0.000	1.130	0.514	17.15	0.520	0.237	9.34
Ex-A2	213,668.45	4.91	0.00766	0%	0	0%	0.000	100%	4.905153	0%	0.000	1.130	0.462	15.40	0.520	0.213	8.39
Ex-B	1,054,224.00	24.20	0.03782	0%	0	0%	0.000	100%	24.20165	0%	0.000	1.130	2.279	75.99	0.520	1.049	41.38
Ex-C	113,030.00	2.59	0.00405	0%	0	0%	0.000	100%	2.594812	0%	0.000	1.130	0.244	8.15	0.520	0.112	4.44
Total	1,618,808.59	37.163	0.05807									<b></b>	3.499	116.69	<u> </u>	1.610	63.55

Notes:

Developed Conditions

Basin Descriptions								100-Year, 6-Hr			1	0-Year, 6-Hr					
Basin	Area	Area	Area	Treat	nent A	Treat	ment B	Treat	ment C	Treati	ment D	Weighted E	Volume	Flow	Weighted E	Volume	Flow
ID	(sf)	(acres)	(sq miles)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)	(ac-ft)	cfs
A-1	24,838.00	0.57	0.00089	0%	0	0%	0.000	15%	0.08553	85%	0.485	1.972	0.094	2.55	1.217	0.058	1.67
A-2	105,565.00	2.42	0.00379	0%	0	0%	0.000	15%	0.363516	85%	2.060	1.972	0.398	10.82	1.217	0.246	7.09
A-3	29,549.00	0.68	0.00106	0%	0	0%	0.000	15%	0.101753	85%	0.577	1.972	0.111	3.03	1.217	0.069	1.98
A-4	30,691.00	0.70	0.00110	0%	0	0%	0.000	15%	0.105685	85%	0.599	1.972	0.116	3.15	1.217	0.071	2.06
A-5	104,192.00	2.39	0.00374	0%	0	0%	0.000	15%	0.358788	85%	2.033	1.972	0.393	10.68	1.217	0.243	7.00
A-6	72,418.00	1.66	0.00260	0%	0	0%	0.000	15%	0.249373	85%	1.413	1.972	0.273	7.42	1.217	0.169	4.86
<u>A-7</u>	33,351.00	0.77	0.00120	0%	0	0%	0.000	15%	0.114845	85%	0.651	1.972	0.126	3.42	1.217	0.078	2.24
A-8	22,174.00	0.51	0.00080	0%	0	0%	0.000	15%	0.076357	85%	0.433	1.972	0.084	2.27	1.217	0.052	1.49
A-9	12,937.00	0.30	0.00046	0%	0	0%	0.000	100%	0.296993	0%	0.000	1.130	0.028	0.93	0.520	0.013	0.51
A-10	40,443.00	0.93	0.00145	0%	0	0%	0.000	100%	0.928444	0%	0.000	1.130	0.087	2.92	0.520	0.040	1.59
A-11	51,106.00	1.17	0.00183	0%	0	0%	0.000	100%	1.173232	0%	0.000	1.130	0.110	3.68	0.520	0.051	2.01
B-1	93,541.00	2.15	0.00336	0%	0	0%	0.000	15%	0.322111	85%	1.825	1.972	0.353	9.59	1.217	0.218	6.28
B-2	15,607.00	0.36	0.00056	0%	0	0%	0.000	15%	0.053743	<u>85%</u>	0.305	1.972	0.059	1.60	1.217	0.036	1.05
B-3	91,753.00	2.11	0.00329	0%	0	0%	0.000	15%	0.315954	85%	1.790	1.972	0.346	9.41	1.217	0.214	6.16
B-4	18,480.00	0.42	0.00066	0%	0	0%	0.000	15%	0.063636	85%	0.361	1.972	0.070	1.89	1.217	0.043	1.24
B-5	48,223.00	1.11	0.00173	0%	0	0%	0.000	15%	0.166057	85%	0.941	1.972	0.182	4.94	1.217	0.112	3.24
B-6	52,071.00	1.20	0.00187	0%	0	0%	0.000	15%	0.179308	85%	1.016	1.972	0.196	5.34	1.217	0.121	3.50
B-7	7,973.00	0.18	0.00029	0%	0	0%	0.000	15%	0.027455	85%	0.156	1.972	0.030	0.82	1.217	0.019	0.54
B-8	42,800.00	0.98	0.00154	0%	0	0%	0.000	15%	0.147383	85%	0.835	1.972	0.161	4.39	1.217	0.100	2.87
B-9	60,848.00	1.40	0.00218	0%	0	0%	0.000	15%	0.209532	85%	1.187	1.972	0.229	6.24	1.217	0.142	4.09
B-10	47,490.00	1.09	0.00170	0%	0	0%	0.000	100%	1.09022	0%	0.000	1.130	0.103	3.42	0.520	0.047	1.86
B-11	509,537.00	11.70	0.01828	0%	0	0%	0.000	100%	11.69736	0%	0.000	1.130	1.102	36.73	0.520	0.507	20.00
C-1	113,067.00	2.60	0.00406	0%	0	0%	0.000	100%	2.595661	0%	0.000	1.130	0.244	8.15	0.520	0.112	4.44
<u></u>													·				
Total	1,628,654.00	37.389	0.05842										4.896	143.40		2.759	87.77

Notes:

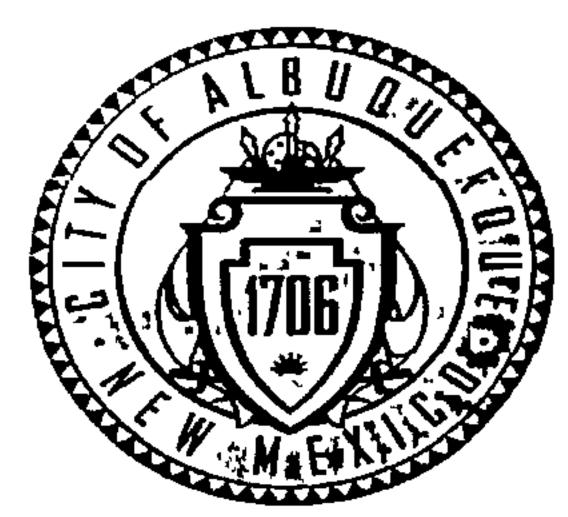
29 AL X.97

**Equations:** 

Weighted  $E = E_a * A_a + E_b * A_b + E_c * A_c + E_d * A_d / (Total Area)$ 

11.70

NOY 2 0 2013
LAND DEVELOPMENT SECTION



# City of Albuquerque

# Planning Department

# Development & Building Services Division

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Coronado Villa Retirement Communty / aka Resort Lifestyle Communities Bu	ilding Permit #: City Drainage #D18/D054C
DRB# EPC#: 14EPC-40045; 16AA	\-10070 Work Order#
Legal Description The Eastern Portion of Tract 4, Santa Monica Place	
City Address 6900 San Vicente Ave NE - Albuquerque, NM	
E-ii Ei Ionggoon 9 Arfman D A ' '	· · · · · · · · · · · · · · · · · · ·
Engineering Firm: Isaacson & Arfman, P.A.	Contact Fred C. Arfman
Address 128 Monroe Street NE - Albuquerque, NM 87108	To the de Chie air illeann
Phone#: (505) 268-8828 Fax#	E-mail. freda@iacivil.com
Owner: Cameron General Contractors	Contact.2 Paul Richie
Address 8040 Eiger Drive - Lincoln, NE 68516 * **	•
Phone#:	E-mail·
	\
Architect:	Contact:
Address	· · · · · · · · · · · · · · · · · · ·
Phone#: Fax#:	E-mail:
Other Contact:	Contact
Address.	
Phone#.	E-mail <sup>.</sup>
TRAFFIC CIRCULATION LAYOUT (TCL)	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
CDOCIONI & CEDIMENTE CONTEDOL DI ANI (ECC)	WORK ORDER APPROVAL
EROSION & SEDIMENT CONTROL PLAN (ESC)	CLOMR/LOMR
OTHER (SPECIFY)	DDE DECICNINAEETINIC
	PRE-DESIGN MEETING OTHER (SPECIFY)
IS THIS A RESUBMITTAL?. X Yes No	OTHER (SPECIFI)
DATE SUBMITTED September 22, 2016  By Fred C. Ar	

COA STAFF ELECTRONIC SUBMITTAL RECEIVED \_\_\_\_

M15/D26 Gilbert Aldaz 480-81825 Applied Engr

## Biazar, Shahab

From:

Biazar, Shahab

Sent:

Monday, November 18, 2013 10:40 AM

To:

'Jeff Wooten'

Subject:

RE: Capstone - Revised Zone 2 Grading Plan

**Attachments:** 

**ZONE 2 WALL MARKUP.PDF** 

Hi,

I have attached couple of options on the walls.

**Thanks** 

Shahab Biazar, P.E.
Senior Engineer
Planning Department
Development & Building Services Division
600 2nd St. NW, Suite 201
Albuquerque, NM 87102
t 505-924-3695
f 505-924-3864

----Original Message-----

From: Jeff Wooten [mailto:jwooten@tierrawestllc.com]

Sent: Monday, November 18, 2013 7:31 AM

To: Biazar, Shahab

Cc: TAlexander@capstonemail.com

Subject: RE: Capstone - Revised Zone 2 Grading Plan

Importance: High

#### Shahab,

- We may have to remove the inlet as shown on the plan. The reason for having this previously was because of the cast in place wall and minimizing and drainage behind the wall. In the case of the Keystone wall, drainage should be ok to flow to the wall and over if necessary. There will not be any concentrated flows in this case and the area draining to the wall is only a 13' wide landscape area. The multi-use trail is constructed of crusher fines and is pervious.
- I am not aware of any conflicts with the tension mats except for the aforementioned drop inlet. Removing the inlet as suggested would solve this issue. Let me know your thoughts so I can adjust the plan and resubmit.
- I am not aware of any other conflicts with utilities except where the existing public sanitary sewer and storm drain lines will cross under the wall. These existing lines are very deep and will not be in direct conflict with the geo-grid.

Thanks and feel free to call if you need to discuss further. I need to get this approved today if at all possible.

Jeff Wooten, PE, LEED AP Tierra West, LLC 5571 Midway park Place, NE Albuquerque, NM 87109 Office: (505) 858-3100

Cell: (505) 980-3560

# <u>jwooten@tierrawestllc.com</u> www.tierrawestllc.com

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----Original Message-----

From: Biazar, Shahab [mailto:sbiazar@cabq.gov] Sent: Friday, November 15, 2013 2:26 PM

To: Jeff Wooten

Subject: RE: Capstone - Revised Zone 2 Grading Plan

## Hi Jeff,

How is the wall being constructed where by the drop inlet? Will there be any conflict with tension mats? Are there any other conflicts with utilities?

### Thanks

Shahab Biazar, P.E.
Senior Engineer
Planning Department
Development & Building Services Division
600 2nd St. NW, Suite 201
Albuquerque, NM 87102
t 505-924-3695
f 505-924-3864

----Original Message-----

From: Jeff Wooten [mailto:jwooten@tierrawestllc.com]

Sent: Friday, November 15, 2013 11:56 AM

To: Biazar, Shahab; TAlexander@capstonemail.com

Cc: jgarcia@tierrawestllc.com

Subject: Capstone - Revised Zone 2 Grading Plan

Importance: High

<<C5D-Detailed Grading Plan - Zone 2-Rev 111513.pdf>> Shahab, Jaimie is delivering the revised Zone 2 grading plan for Capstone at noon today. Please review and let me know if there is anything else you need. If you recall, this is a Fast Track review.

#### Tim,

Please make sure this plan is updated into your building permit sets otherwise the plans won't match and you will not get approved. Also, please make sure to update this and all the other current sheets I sent you onto the FTP site.

#### Thanks,

Jeff Wooten, PE, LEED AP Tierra West, LLC 5571 Midway park Place, NE Albuquerque, NM 87109 Office: (505) 858-3100 Cell: (505) 980-3560

iwooten@tierrawestllc.com
www.tierrawestllc.com

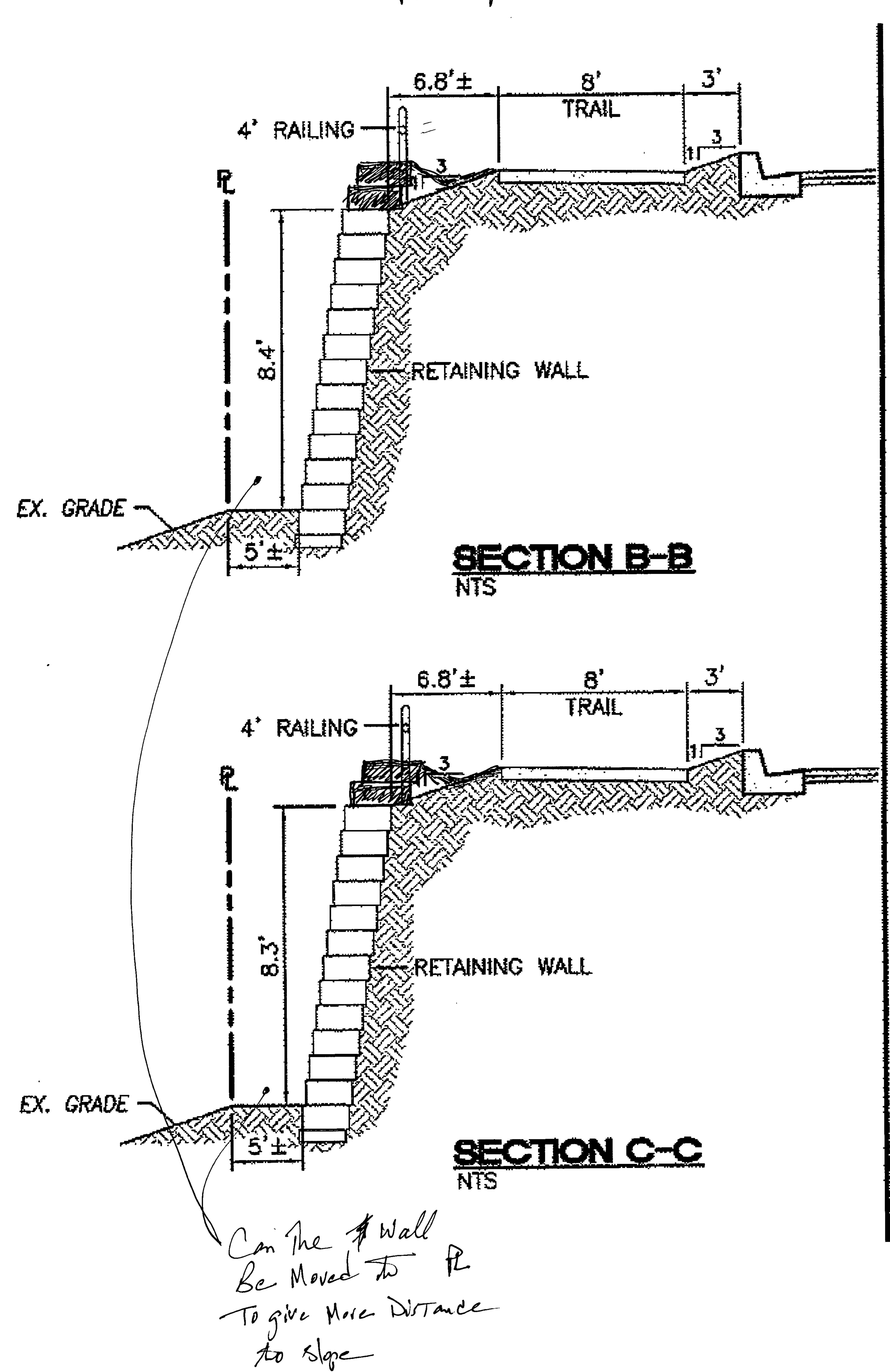
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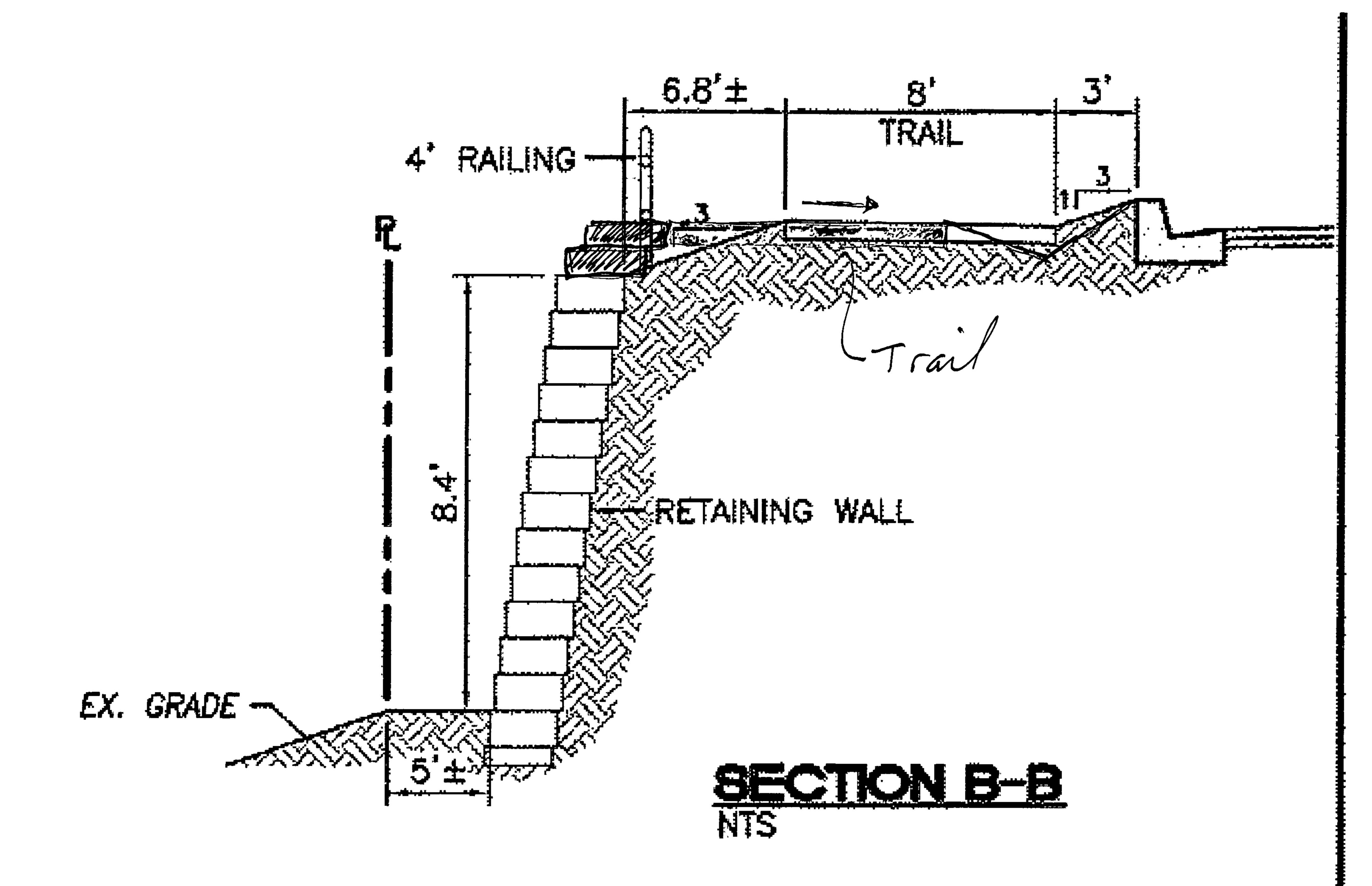
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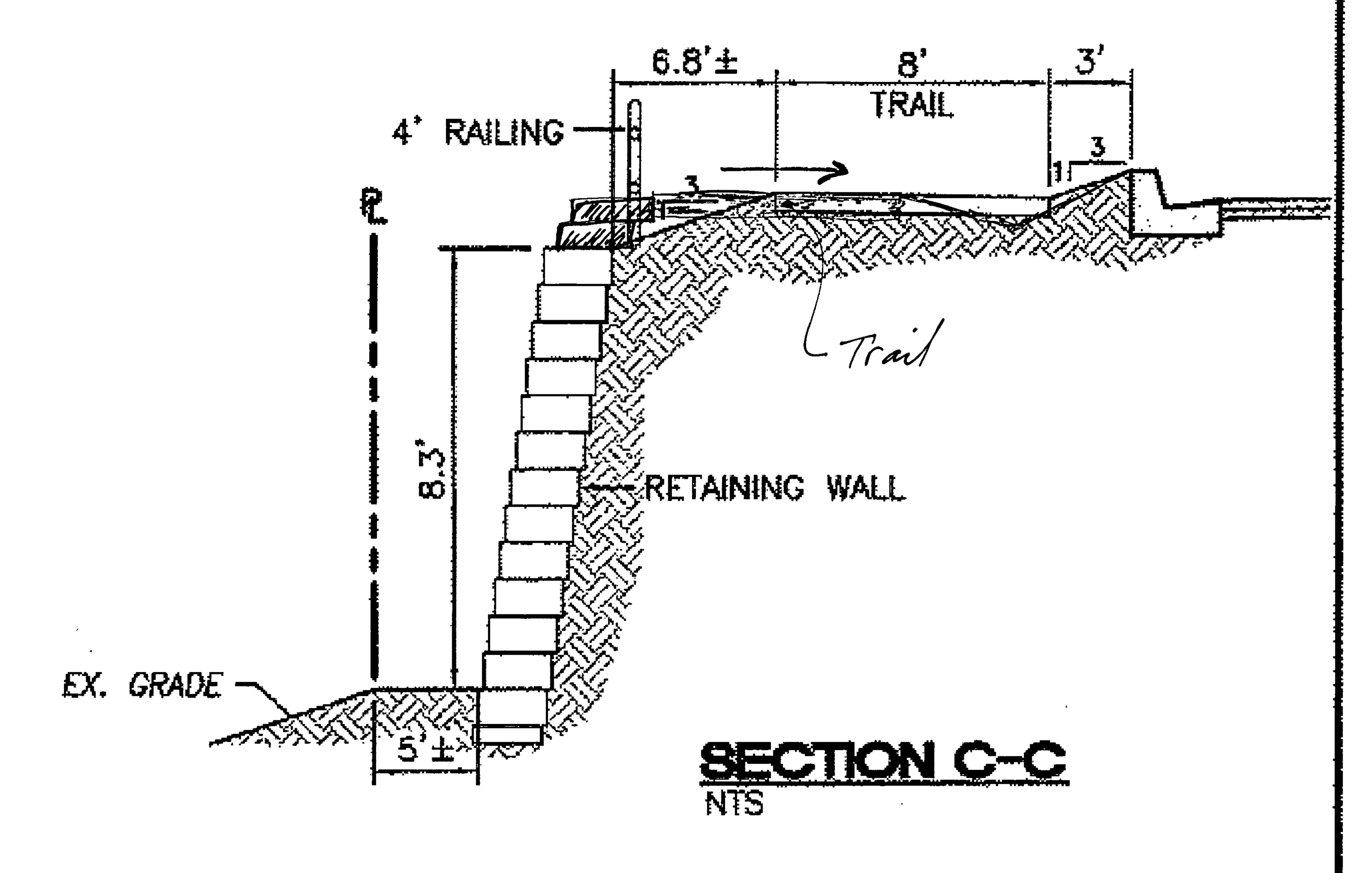
If this email is spam, report it to

https://support.onlymyemail.com/view/report\_spam/MTUxMTQ2OjE2MDA3OTQxOTI6andvb3RlbkB0aWVycmF3ZXN0bGxjLmNvbTpkZWxpdmVyZWQ

Shahabis Marlcups









# City of Albuquerque

# Planning Department

# Development & Building Services Division

# RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Capstone Student Housing - Zo	ne 2 Area Building Permits	City Drainage #: M5D026
DRB#: 1009090	EPC#: 11EPC-40091/40092/40093	Work Order#:
Legal Description: Parcel 1A block 3 of Lots 1/	A, 2B, in Block 3, Parcels 1A1, 1A2, 1B1 in Block 4	, Parcels 2A, 2B, 2C, & 2D of Sunport CONT
City Address:	······································	
Engineering Firm: Tierra West, LLC		Contact: Jeffrey T. Wooten, P.E.
Address: 5571 Midway Park Place NE, Albu	querque, NM 87109	
Phone#: 505-858-3100	Fax#: 505-858-1118	E-mail: jwooten@tierrawestllc.com
Owner: Capstone Collegiate Communities,	LLC	Contact: Amanda Wallis
Address: 431 Office Park Drive Birmingham,	, AL 35223	
Phone#: 205-612-1107	Fax#: 205-949-2070	E-mail: awallis@capstonemail.com
Architect:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
Surveyor:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
Contractor:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVA	L/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANT	EE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPRO	· · · · · · · · · · · · · · · · · · ·
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D A	PPROVAL SERIES TO TEST WILLIAM
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMIT	
X GRADING PLAN	SECTOR PLAN APPROVAL	1 1 5 2013
EROSION & SEDIMENT CONTROL PLA	AN (ESC) FINAL PLAT APPROVAL	1/4/1 NOA 1 2 5012 1/1
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPAN	VCY (PERM)
CLOMR/LOMR	CERTIFICATE OF OCCUPAN	
TRAFFIC CIRCULATION LAYOUT (TC	<del></del>	ROVAL
ENGINEER'S CERT (TCL)	X BUILDING PERMIT APPROV	
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROV	
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVA	
SO-19	WORK ORDER APPROVAL	ESC CERT. ACCEPTANCE
OTHER (SPECIFY) RESULANTA		
WAS A PRE-DESIGN CONFERENCE ATTEN	IDED: Yes X No Co	py Provided
DATE SUBMITTED: November 15, 2013	By: Jeffrey T. Wooten, P.E.	

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- 4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

# Biazar, Shahab

It alred who jet the will come of w/ and atternative Plan Shahab 11/18/13

From: Sent:

Jeff Wooten <jwooten@tierrawestllc.com> Monday, November 18, 2013 10:47 AM

To:

Biazar, Shahab

Subject:

RE: Capstone - Revised Zone 2 Grading Plan

#### Shahab,

Pricing just came back in on this wall and if I go by to the Client again telling them I need to raise the wall they are going to kill us....literally. Raising the wall even by 1' would raise the price by about \$50,000. I tried your office line and couldn't get through...can you call me when you get a chance to discuss?

Thanks,

Jeff Wooten, PE, LEED AP
Tierra West, LLC
5571 Midway park Place, NE
Albuquerque, NM 87109
Office: (505) 858-3100
Cell: (505) 980-3560
jwooten@tierrawestllc.com
www.tierrawestllc.com

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----Original Message-----

From: Biazar, Shahab [mailto:sbiazar@cabq.gov] Sent: Monday, November 18, 2013 10:40 AM

To: Jeff Wooten

Subject: RE: Capstone - Revised Zone 2 Grading Plan

Hi,

I have attached couple of options on the walls.

#### Thanks

Shahab Biazar, P.E.
Senior Engineer
Planning Department
Development & Building Services Division
600 2nd St. NW, Suite 201
Albuquerque, NM 87102
t 505-924-3695

# f 505-924-3864

----Original Message-----

From: Jeff Wooten [mailto:jwooten@tierrawestllc.com]

Sent: Monday, November 18, 2013 7:31 AM

To: Biazar, Shahab

Cc: TAlexander@capstonemail.com

Subject: RE: Capstone - Revised Zone 2 Grading Plan

Importance: High

### Shahab,

- We may have to remove the inlet as shown on the plan. The reason for having this previously was because of the cast in place wall and minimizing and drainage behind the wall. In the case of the Keystone wall, drainage should be ok to flow to the wall and over if necessary. There will not be any concentrated flows in this case and the area draining to the wall is only a 13' wide landscape area. The multi-use trail is constructed of crusher fines and is pervious.
- I am not aware of any conflicts with the tension mats except for the aforementioned drop inlet. Removing the inlet as suggested would solve this issue. Let me know your thoughts so I can adjust the plan and resubmit.
- I am not aware of any other conflicts with utilities except where the existing public sanitary sewer and storm drain lines will cross under the wall. These existing lines are very deep and will not be in direct conflict with the geo-grid.

Thanks and feel free to call if you need to discuss further. I need to get this approved today if at all possible.

Jeff Wooten, PE, LEED AP
Tierra West, LLC
5571 Midway park Place, NE
Albuquerque, NM 87109
Office: (505) 858-3100
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jwooten@tierrawestllc.com
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----Original Message-----

From: Biazar, Shahab [mailto:sbiazar@cabq.gov]

Sent: Friday, November 15, 2013 2:26 PM

To: Jeff Wooten

Subject: RE: Capstone - Revised Zone 2 Grading Plan

## Hi Jeff,

How is the wall being constructed where by the drop inlet? Will there be any conflict with tension mats? Are there any other conflicts with utilities?

#### Thanks

Shahab Biazar, P.E.
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Planning Department
Development & Building Services Division
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f 505-924-3864

## ----Original Message-----

From: Jeff Wooten [mailto:jwooten@tierrawestllc.com]

Sent: Friday, November 15, 2013 11:56 AM

To: Biazar, Shahab; TAlexander@capstonemail.com

Cc: jgarcia@tierrawestllc.com

Subject: Capstone - Revised Zone 2 Grading Plan

Importance: High

<<C5D-Detailed Grading Plan - Zone 2-Rev 111513.pdf>> Shahab, Jaimie is delivering the revised Zone 2 grading plan for Capstone at noon today. Please review and let me know if there is anything else you need. If you recall, this is a Fast Track review.

#### Tim,

Please make sure this plan is updated into your building permit sets otherwise the plans won't match and you will not get approved. Also, please make sure to update this and all the other current sheets I sent you onto the FTP site.

#### Thanks,

Jeff Wooten, PE, LEED AP
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~	unauthorized interception of this message is illegal under the law. If you have received this message in error, please immediately notify me by return message or by telephone and delete the original message from your email system. Thank you.
	If this email is spam, report it to https://support.onlymyemail.com/view/report_spam/MTUxMTQ2OjE2MDA3OTQxOTI6andvb3RIbkB0aWVycmF3ZXN0b GxjLmNvbTpkZWxpdmVyZWQ
	If this email is spam, report it to https://support.onlymyemail.com/view/report_spam/MTUxMTQ2OjE2MDEzMzM1NjE6andvb3RlbkB0aWVycmF3ZXN0b GxjLmNvbTpkZWxpdmVyZWQ

# CITY OF ALBUQUERQUE



August 5, 2014

Ronald R. Bohannan, PE Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

Re: Capstone Student Housing Fine 2

Transport Street SE

Request Permanent C.O. - Accepted

Engineer's Stamp dated: 11-20-13 (M15D026)

Certification dated: 7-31-14

Dear Mr. Bohannan,

Based on the Certification received 8/4/2014, the site is acceptable for release of Certificate of Occupancy by Hydrology.

PO Box 1293

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3977.

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Rita Harmon, P.E.

Seniorl Engineer, Planning Dept.

Development and Review Services

RR/RH C: CO Clerk

email

# R

# City of Albuquerque

# Planning Department

# Development & Building Services Division

# RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

DRB#:	Project Title: Capstone Student Housing (Zone 2)	7	City Drainage #: W15004
City Address:  Engineering Firm: Tierra West LLC Address: 5571 Midway Park Place NE, Albuquerque, NM 87108  Phone#: 505-888-3100 Fax#: E-mail: jdhernandez@berrawestlic com  Owner: Capstone Collegiate Communities, LLC Contact: Amanda Wallis  Address: 431 Office Park Drive Birmingham, AL35223  Phone#: 56-12-1107 Fax#: E-mail: awallis@capstonemail.com  Architect: Contact: Address:  Phone#: Fax#: E-mail:  Surveyor: Contact: Address:  Phone#: Fax#: E-mail:  Contact: Contact: Address:  Phone#: Fax#: E-mail:  Contact: Contact: Address:  Phone#: Fax#: E-mail:  Contact: Address:  Phone#: Fax#: E-mail:  Contact: Address:  Phone#: Fax#: E-mail:  Contact: Address:  Phone#: Fax#: E-mail: Contact: Address:  Phone#: Fax#: E-mail: Contact: Address:  Phone#: Fax#: E-mail: Contact: Address:  Phone#: Fax#: E-mail: Contact: Address:  Phone#: Fax#: E-mail: Contact: Address: B-mail: B-mail: Contact: Address: B-mail: Contact: Address: B-mail: Contact: Address: B-mail: Contact: Address: B-mail: B-mail: Address: B-mail: Contact: Address: B-mail: B-mail: Address: B-mail: B-mail: Address: B-mail: B-mail: Address: B-mail: Address: B-mail: B-mail: Address: B-mail: Address: B-mail: B-mail: Address: B-mai	DRB#:	EPC#: 11EPC-40091/40092/40093	
Engineering Firm: Tierra West LLC Address: 5571 Midway Park Place NE, Albuquerque, NM 87109 Phone#: 505-858-3100 Fax#: E-mail: dhernandez@tierrawestilc.com  Owner: Capstone Collegiate Communities, LLC Address: 431 Office Park Drive Birmingham, AL35223 Phone#: 205-612-1107 Fax#: E-mail: awallis@capstonemail.com  Architect: Contact: Address: Phone#: Fax#: E-mail: Surveyor: Contact: Address: Phone#: Fax#: E-mail: Contact: Address: E-mail: Contact: Address:	Legal Description: Parcel 1A Block 3 plat of Lots 1	A, 1A2, 1B1 in Block 4, Parcels 2A, 2B, 2C, & 2D of Sun	port Cont
Address: 5571 Midway Park Place NE, Albuquerque, NM 87109  Phone#: 505-858-3100    Fax#:   E-mail:	City Address:		
Phone#: 505-858-3100 Fax#: E-mail: jdnernande2@torrawestlic com  Owner: Capstone Collegiate Communities, LLC  Address: 431 Office Park Drive Birmingham, AL35223  Phone#: 205-612-1107 Fax#: E-mail: awallis@capstonemial.com  Architect: Contact:  Address:  Phone#: Fax#: E-mail:  Surveyor: Contact:  Address:  Phone#: Fax#: E-mail:  CONTACTOR:  Address:  Phone#: E-mail:  CONTACTOR:  Address:  Address:  Phone#: E-mail:  CONTACTOR:  Address:  Address:  Phone#: E-mail:  CONTACTOR:  Address:  Add	Engineering Firm: Tierra West LLC		Contact: Joel Hernandez
Owner: Capstone Collegiate Communities, LLC  Address: 431 Office Park Drive Birmingham, AL35223  Phone#: 205-612-1107  Fax#: E-mail: awalis@capstonemail.com  Architect: Contact:  Address: Phone#: Fax#: E-mail:  Surveyor: Contact:  Address: Phone#: Fax#: E-mail:  TYPE OF SUBMITTAL: Contact:  DRAINAGE REPORT SIA/FINANCIAL GUARANTEE RELEASE  DRAINAGE PLAN ISI SUBMITTAL S. DEV. FOR BLDG. PERMIT APPROVAL  CONCEPTUAL G. & D PLAN  GRADING PLAN G. S. DEV. FOR BLDG. PERMIT APPROVAL  CONCEPTUAL G. & D PLAN  EROSION & SEDIMENT CONTROL PLAN (ESC)  X ENGINEER'S CERT (HYDROLOGY)  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT (TCL)  ENGINEER'S CERT (ESC)  PAVING PERMIT APPROVAL  ESC CERT. ACCEPTANCE  ESC CERT. ACCEPTANCE  ESC CERT. ACCEPTANCE	Address: 5571 Midway Park Place NE, Albuquerqu	ue, NM 87109	
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Phone#: 205-612-1107	Owner: Capstone Collegiate Communities, LLC		Contact: Amanda Wallis
Architect:  Address:  Phone#:  Fax#:  Contact:  Address:  Phone#:  Fax#:  Contact:  Address:  Phone#:  Fax#:  Contact:  Address:  Phone#:  Fax#:  Contact:  Contact:  Address:  Phone#:  Fax#:  Contact:  Cont	Address: 431 Office Park Drive Birmingham, AL35	223	
Address: Phone#: Fax#: E-mail:  Surveyor: Contact:  Address: Phone#: Fax#: E-mail:  Contractor: Contact:  Address: Phone#: Fax#: E-mail:  Contractor: Contact:  Address: Phone#: Fax#: E-mail:  TYPE OF SUBMITTAL: CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:  DRAINAGE REPORT SIA/FINANCIAL GUARANTEE RELEASE  DRAINAGE PLAN 1st SUBMITTAL PRELIMINARY PLAT APPROVAL  DRAINAGE PLAN RESUBMITTAL S. DEV. PLAN FOR SUB'D APPROVAL  CONCEPTUAL G & D PLAN SECTION SEDIMENT CONTROL PLAN (ESC)  EROSION & SEDIMENT CONTROL PLAN (ESC)  ENGINEER'S CERT (HYDROLOGY) CERTIFICATE OF OCCUPANT CLITEMP)  TRAFFIC CIRCULATION LAYOUT (TCL) ENGINEER'S CERT (TCL) ENGINEER'S CERT (GDB SITE PLAN) GRADING PERMIT APPROVAL ENGINEER'S CERT (ESC) PAVING PERMIT APPROVAL ENGINEER'S CERT (ESC) PAVING PERMIT APPROVAL ENGINEER'S CERT (ESC) PAVING PERMIT APPROVAL ESC CERT. ACCEPTANCE	Phone#: 205-612-1107	Fax#:	E-mail: awallis@capstonemail.com
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WAS A PRE-DESIGN CONFERENCE ATTENDED:  Yes X No Copy Provided	WAS A PRE-DESIGN CONFERENCE ATTEN	DED: Yes X No Co	py Provided
2[1]	DATE SUBMITTED: 8 1 2014		

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

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# CITY OF ALBUQUERQUE



November 21, 2013

Jeffrey T. Wooten, P.E. Tierra West, LLC 5571 Midway Park Pl. NE Albuquerque, NM 87109

Re: Revised Capstone Drainage Management Plan

**Zone 2 Grading Plan** 

Engineer's Stamp Date 11-20-2013 (M-15/D026)

Dear Mr. Wooten,

Based the following plans and documents provided in your submittal received 11-20-13 the project is approved for Building Permit for <u>buildings 1 through 28</u> and the <u>maintenance building</u> east of building 1.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge for disturbing one acre or more and a Topsoil Disturbance Permit for disturbing ¾ of an acre or more. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

PO Box 1293

If you have any questions, you may contact me by telephone at 505-924-3695.

New Mexico 87103

Shahab Biazar, P.E.

Singerely,

www.cabq.gov

Senior Engineer, Planning Department

Development Review Services

C: e-mail



# City of Albuquerque

# Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

TARABA A SA		11 1 = 2)
Project Title: Capstone Student Housing - Zor	ne 2 Area Building Permits	City Drainage #: M 15 D つるし
DRB#: 1009090	EPC#: 11EPC-40091/40092/40093	Work Order#:
Legal Description: Parcel 1A block 3 of Lots 1A	A, 2B, in Block 3, Parcels 1A1, 1A2, 1B1 in Block 4	4, Parcels 2A, 2B, 2C, & 2D of Sunport CONT
City Address:		
Engineering Firm: Tierra West, LLC		Contact: Jeffrey T. Wooten, P.E.
Address: 5571 Midway Park Place NE, Albud	querque, NM 87109	
Phone#: 505-858-3100	Fax#: 505-858-1118	E-mail: jwooten@tierrawestllc.com
Owner: Capstone Collegiate Communities, I	<u> </u>	Contact: Amanda Wallis
Address: 431 Office Park Drive Birmingham,	AL 35223	
Phone#: 205-612-1107	Fax#: 205-949-2070	E-mail: awallis@capstonemail.com
Architect:		Contact:
Address:	<del>/////////////////////////////////////</del>	
Phone#:	Fax#:	E-mail:
Surveyor:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
Contractor:		Contact:
Address:	<del></del>	
Phone#:	Fax#:	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVA	L/ACCEPTANCE SOUGHT:
X DRAINAGE REPORT REJISIONS	SIA/FINANCIAL GUARANT	TEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPRO	OVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D A	APPROVAL
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMIT	ΓAPPROVAL
GRADING PLAN	SECTOR PLAN APPROVAL	- TO 15 1111
EROSION & SEDIMENT CONTROL PLA	<del></del>	
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPAN	NCY (PERMITS IS US)
CLOMR/LOMR	CERTIFICATE OF OCCUPAN	NCV (TCI THAM)
TRAFFIC CIRCULATION LAYOUT (TC	<del></del>	
	BUILDING PERMIT APPROV	11111
ENGINEER'S CERT (TCL)	<del>/ \</del>	CAL CHIM A DAWNER OPNIER
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROVA	$ \frac{1}{2}$
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVA	
SO-19	WORK ORDER APPROVAL	
XOTHER (SPECIFY) RESUMM MAL	GRADING CERTIFICATION	OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTEN	DED: Yes X No Co	opy Provided
DATE SUBMITTED: November 20, 2013	By: Jeffrey T. Wooten, P.E.	

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# Biazar, Shahab

From: Biazar, Shahab

Sent: Thursday, November 14, 2013 10:28 AM To: Jeffrey Wooten (jwooten@tierrawestllc.com)

Cc: Sims, Timothy E.

Subject: Capstone Housing Grading Plan - ZONE 2 (M15/D26)

Attachments: M15D026\_ZONE2\_SHAHAB\_MARKUPS.pdf

Hi,

Attached please find my markups on the grading plan for Capstone Housing - ZONE 2 (M15/D26).

**Thanks** 

# Shahab Biazar, P.E.

Senior Engineer
Planning Department
Development & Building Services Division
600 2nd St. NW, Suite 201
Albuquerque, NM 87102
t 505-924-3695
f 505-924-3864



# City of Albuquerque

# Planning Department

# Development & Building Services Division RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: Capstone Student Housing - Zo	one 2 Area Building Permits	City Drainage #:
DRB#: 1009090	Work Order#:	
Legal Description: Parcel 1A block 3 of Lots 1.	A, 2B, in Block 3, Parcels 1A1, 1A2, 1B1 in Block 4	, Parcels 2A, 2B, 2C, & 2D of Sunport CONT
City Address:		
Engineering Firm: Tierra West, LLC		Contact: Jeffrey T. Wooten, P.E.
Address: 5571 Midway Park Place NE, Albu	Jquerque, NM 87109	
Phone#: 505-858-3100	Fax#: 505-858-1118	E-mail: jwooten@tierrawestllc.com
Owner: Capstone Collegiate Communities,		
Address: 431 Office Park Drive Birmingham		Contact: Amanda Wallis
Phone#: 205-612-1107	Fax#: 205-949-2070	E-mail: awallis@capstonemail com
		L-Man. attamograpotonoman com
Architect:	······································	Contact:
Address:		· · · · · · · · · · · · · · · · · · ·
Phone#:	Fax#:	E-mail:
Surveyor:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
Contractor:		Contact:
Address:		
Phone#:	Fax#:	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVA	L/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTI	
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPRO	
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D A	PPROVAL
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMIT	APPROVAN EPEN
K GRADING PLAN	SECTOR PLAN APPROVAL	
EROSION & SEDIMENT CONTROL PLA	AN (ESC) FINAL PLAT APPROVAL	OCT 2 1 2012
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPAN	
CLOMR/LOMR	CERTIFICATE OF OCCUPAN	ICY (TCIL TEMP)
TRAFFIC CIRCULATION LAYOUT (TO	CL) FOUNDATION PERMIT APP	CY (PERMINITION OF THE PERMINITION OF THE LAND DEVELOPMENT SECTION
ENGINEER'S CERT (TCL)	<b>X</b> BUILDING PERMIT APPROV	AL
ENGINEER'S CERT (DRB SITE PLAN)	<del></del>	
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVA	
SO-19	WORK ORDER APPROVAL	ESC CERT. ACCEPTANCE
OTHER (SPECIFY)	GRADING CERTIFICATION	OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTEN	NDED: Yes X No Con	py Provided
DATE SUBMITTED: October 21, 2013	By: Jeffrey T. Wooten, P.E.	

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