



# **Town of Green Mountain Falls**

## **Regular Board of Trustee Meeting Agenda**

**10615 Green Mountain Falls Road**

**7:00 p.m.**

**Tuesday, January 15, 2019**

**WORKSHOP:** Public Input on Ordinance 2018-12, An Ordinance Repealing And Reenacting Article XV Of Chapter 10 Of The Green Mountain Falls Municipal Code Regarding Fire Restrictions-with requested revisions made December 28, 2018

### **REGULAR MEETING:**

1. CALL TO ORDER / ROLL CALL / PLEDGE OF ALLEGIANCE
2. ADDITIONS, DELETIONS, OR CORRECTION TO THE AGENDA
3. CONSENT AGENDA
  - a. Approve Board of Trustees Meeting Minutes December 18, 2018
  - b. Bring Into Record Bills Run December 28, 2018, and January 9, 2018
4. NEW BUSINESS
  - a. Oath of Office, PPACG Committee Member Nathan Scott
  - b. Resolution 2019-01 Memo
  - c. Resolution 2019-01, A Resolution of the Town of Green Mountain Falls Colorado, Designating The Official Public Notice Posting Place
  - d. Memo Resolution 2019-02
  - e. Resolution 2019-02, A Resolution Of The Town Of Green Mountain Falls Colorado, Making Appointment Of Town Clerk
  - f. Memo Resolution 2019-03
  - g. Resolution 2019-03, A Resolution Of The Town Of Green Mountain Falls Colorado, Designating Authorized Signatories On Town Bank Accounts And Individuals Authorized to Conduct Online Banking On Behalf Of The Town
  - h. Memo Resolution 2019-04
  - i. Resolution 2019-04, A Resolution Naming Appointments To Committees, Commissions, And Outside Agencies
  - j. Memo – Fire Station Site Plan and Erosion Control Plan
  - k. Approval of Fire Station Erosion Control Plan per Planning Commission Recommendation
5. OLD BUSINESS
  - a. Public Hearing and Final Adoption, Ordinance 2018-12, An Ordinance Repealing And Reenacting Article XV Of Chapter 10 Of The Green Mountain Falls Municipal Code Regarding Fire Restrictions – with requested revisions made December 28, 2018
6. PUBLIC INPUT: 3 Minutes per speaker
7. CORRESPONDENCE

8. REPORTS

- a. Trustees
- b. Town Manager
- c. Town Clerk
- d. Marshal

9. EXECUTIVE SESSION

- a. Pursuant to C.R.S § 24-6-402(e) for the purpose of matters that may be subject to negotiations, developing strategy for negotiations, and/or instructing negotiators

9. ADJOURN

**TOWN OF GREEN MOUNTAIN FALLS**  
**Regular Board of Trustee Meeting**  
**December 18, 2018 – 7:00 P.M.**

**MEETING MINUTES**

**Board Members Present**

Mayor Jane Newberry  
Trustee Margaret Peterson  
Trustee Chris Quinn  
Trustee Tyler Stevens  
Trustee Katharine Guthrie

**Board Members Absent**

**Town Attorney**

Not present.

**Public Works**

**Interim Town Manager**

Jason Wells

**Marshal's Dept.**

Virgil Hodges

**Interim Town Clerk**

Judy Egbert

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**WORKSHOP:** Public Input on Ordinance 2018-10, An Ordinance Adding A New Section 11-51 To The Green Mountain Falls Municipal Code To Address The Installation Of Improvements In Public Right-Of-Way

Comments were heard from town resident Mac Pitrone. Mr. Jason Wells, Interim Town Manager will consult the Town Attorney for clarification in paragraph c. of Section 11-51.

Comments were heard from town resident Gail Gerig regarding paragraph e. of Section 11.51.

**WORKSHOP:** Public Input on Ordinance 2018-11, An Ordinance Of The Green Mountain Falls, Colorado, Approving A Cable Franchise Agreement Between The Town And Comcast Of Colorado/Pennsylvania/West Virginia, LLC, To Operate A Cable System In The Town Pursuant To The Terms Of Such Cable Franchise Agreement

No public input was initiated.

**REGULAR MEETING:**

**1. Call to Order/Roll Call/Pledge of Allegiance**

Mayor Newberry called the meeting to order at 7:17 p.m. The Pledge of Allegiance was recited.

**2. ADDITIONS, DELETIONS, OR CORRECTIONS TO THE AGENDA:**

There were no corrections or additions to the current agenda. Motion made by Mayor Newberry and seconded by Trustee Guthrie to accept the Agenda as presented. The motion carried unanimously.

### **3. CONSENT AGENDA:**

- a. Approve Board of Trustees Meeting Minutes December 4, 2018**
- b. Bring Into Record Bills Run December 4, 2018 and December 17, 2018**

There was one correction found, under 4.e, as to the amount paid by that particular grant, and the percentage of contribution we will receive for the related costs. Mayor Newberry made a motion, seconded by Trustee Guthrie, to approve the minutes reflecting that change, with the record of bills run both December 4<sup>th</sup> and 17<sup>th</sup> included as part of the record. The motion carried unanimously.

### **4. NEW BUSINESS:**

- a. Introduction Of Ordinance 2018-12, An Ordinance Repealing And Reenacting Article XV Of Chapter 10 Of The Green Mountain Falls Municipal Code Regarding Fire Restrictions**

Trustee Stevens gave a synopsis of the Ordinance. A workshop will be scheduled for January 15, before the scheduled board meeting. It was asked by the board that the Town Attorney be consulted to verify and include the table created by Trustee Stevens.

A motion was made by Mayor Newberry and seconded by Trustee Peterson to move forward. The Motion carried by a unanimous vote.

- b. Resolution 2018-24, A Resolution Naming Appointments To Committees, Commissions, And Outside Agencies**

The resolution was explained by Ms. Laura Kotewa, Town Clerk, and Mr. Jason Wells, Interim Town Manager. It was clarified that Mr. Nathan Scott will be sworn in at our next Planning Commission meeting on January 8, 2019. Mayor Newberry moved, Trustee Guthrie seconded to appoint Mr. Scott to both the Planning Commission and to the PPACG Water Quality Management Committee. The motion carried unanimously.

Trustee Peterson made the motion and Trustee Stevenson seconded, to approve the Resolution. Motion carried unanimously.



**c. Resolution 2018-25, A Resolution Adopting An Updated Municipal Fee Schedule**

Mr. Jason Wells, Interim Town Manager reviewed the document, Ms. Laura Kotewa, Town Clerk pointed out that the title had to be edited for the Mayor's signature to list the name of Appendix A as Green Mountain Falls 2019 Fee Schedule.

Several revisions were suggested, along with there being input from the audience, to revise several fees and some of the wording.

After the update discussion was completed, Trustee Tyler made the motion and the Mayor seconded to approve the Resolution with the corrections made to the Appendix, the Green Mountain Falls 2019 Fee Schedule. Motion carried by unanimous vote.

**d. Resolution 2018-26, A Resolution To Set Mill Levies**

Trustee Stevens made a motion, seconded by the Mayor to approve the Resolution. Motion carried unanimously.

**5. OLD BUSINESS:**

**a. Public Hearing and Final Adoption, Ordinance 2018-10, An Ordinance Adding A New Section 11-51 To The Green Mountain Falls Municipal Code To Address The Installation Of Improvements In Public Right-Of-Way**

Mayor Newberry gave opportunity for public comment, none was given.

During the workshop, concern was expressed over potential for citizens to be financially responsible for placing additional conduit into a trench. Mr. Wells will confirm with the Town Attorney as to the meaning of the word "permittee" and responsibility for cost.

If it is determined that modifications are needed to this ordinance, this will be readdressed prior to February 5, 2019.

Trustee Stevens made the motion to approve the Ordinance. Trustee Peterson seconded, and the motion carried unanimously.

**b. Public Hearing and Final Adoption, Ordinance 2018-11, An Ordinance Of The Green Mountain Falls, Colorado, Approving A Cable Franchise Agreement Between The Town And Comcast Of Colorado/Pennsylvania/West Virginia, LLC, To Operate A Cable**

### **System In The Town Pursuant To The Terms Of Such Cable Franchise Agreement**

Mayor Newberry gave opportunity for public comment, none was given.

Mr. Jason Wells, Interim Town Manager gave some background information and Mr. Nicolas Jimenez spoke about Comcast obligations.

Trustee Stevens made a motion with Trustee Peterson providing the second to approve the Ordinance. Motion carried by unanimous vote.

### **6. PUBLIC INPUT – 3 Minutes Per Speaker:**

Audience member David Pearlman made comments concerning the occupancy tax.

Audience member Gail Gerig spoke about the street lighting payment issue.

Audience member Lisa Huizenga also gave comments regarding the occupancy tax.

Audience member Mac Pitrone commented about the street light payment issue.

### **7. CORRESPONDENCE:**

#### **a. Planning Commission Minutes November 27, 2018 and December 11, 2018**

Mayor Newberry made mention of a letter received from Judy Piazza regarding parking and zoning designation on Belvidere.

Mayor Newberry moved, and Trustee Guthrie seconded, to accept the minutes. Motion carried by unanimous vote.

### **7. REPORTS**

#### **a. Trustees**

Trustee Peterson mentioned that there were 400 in attendance at the Yule Festival and that it would be nice to offer more community events.

Trustee Guthrie shared that the Town Chamber Committee is down by 4 members and that they will meet the 3<sup>rd</sup> Thursday in January if anyone might be interested in attending.

Trustee Stevens pointed out that the PPRTA is working on updates to the stilling basins. And that there is discussion also of installing optical cable in town. This is a future goal of the county and town to enable better cable service at a possibly lower cost to our citizens.

**b. Town Manager**

Mr. Jason Wells shared his gratitude for the time and efforts Ms. Judy Egbert has made in bringing order to our office. Mr. Mike Farrina will be here tomorrow to work with Ms. Laura Kotewa on financial record keeping.

The signed DOLA grant paperwork was received in the office today which will mean that Mr Andre Brackin can begin the 5 projects that can be completed with grant funds.

**c. Town Clerk**

Ms. Laura Kotewa mentioned that the old website has been fully archived, and that there is work being done to purchase some electronic devices for the board and office. Mics will be installed with remaining budget money from 2018.

She will be spending more time training with Ms. Judy Egbert this week, and has an appointment to learn more about website maintenance early in January.

**9. Adjournment**

Meeting adjourned at 8:56 p.m.

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Mayor Jane Newberry

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Judy A. Egbert

3:18 PM

12/28/18

## Town of Green Mountain Falls

## Check Detail

December 28, 2018

Type	Num	Date	Name	Item	Account	Paid Amount	Original Amount
Bill Pmt -Check	20272	12/28/2018	ADD Staff		11000 · Park State Ba...		-694.38
Bill		12/28/2018			62730 · Contract Servi...	-425.43	425.43
Bill		12/28/2018			62730 · Contract Servi...	-268.95	268.95
TOTAL						-694.38	694.38
Bill Pmt -Check	20273	12/28/2018	Comcast		11000 · Park State Ba...		-230.54
Bill		12/28/2018			62080 · Comcast	-153.64	153.64
Bill		12/28/2018			63500 · Comcast-Inter...	-76.90	76.90
TOTAL						-230.54	230.54
Bill Pmt -Check	20274	12/28/2018	El Paso County Clerk...		11000 · Park State Ba...		-260.49
Bill		12/28/2018			60730 · Election	-260.49	260.49
TOTAL						-260.49	260.49
Bill Pmt -Check	20280	12/28/2018	GovPro Consulting		11000 · Park State Ba...		-4,120.00
Bill		12/28/2018			62730 · Contract Servi...	-1,720.00	1,720.00
Bill		12/28/2018			62730 · Contract Servi...	-2,400.00	2,400.00
TOTAL						-4,120.00	4,120.00
Bill Pmt -Check	20281	12/28/2018	MIKE FARINA		11000 · Park State Ba...		-2,667.25
Bill		12/28/2018			62730 · Contract Servi...	-2,667.25	2,667.25
TOTAL						-2,667.25	2,667.25

10:47 AM

01/10/19

## Town of Green Mountain Falls

## Check Detail

January 1 - 10, 2019

Type	Num	Date	Name	Item	Account	Paid Amount	Original Amount
Bill Pmt -Check	20282	01/09/2019	ADD Staff		11000 · Park State Ba...		-322.74
Bill		01/10/2019			62730 · Contract Servi...	-244.50	244.50
					62730 · Contract Servi...	-78.24	78.24
TOTAL						-322.74	322.74
Bill Pmt -Check	20283	01/09/2019	Century Link		11000 · Park State Ba...		-59.52
Bill		01/08/2019			63500 · Comcast-Inter...	-59.52	59.52
TOTAL						-59.52	59.52
Bill Pmt -Check	20284	01/09/2019	Chase Card Services		11000 · Park State Ba...		-5,048.82
Bill		01/08/2019			62020 · Office Supplies	-150.80	156.74
					62020 · Office Supplies	-52.44	54.51
					62020 · Office Supplies	-173.06	179.88
					61220 · Police Vehicle...	-4,263.64	4,431.70
					63055 · Training/Meals	-408.88	425.00
TOTAL						-5,048.82	5,247.83
Bill Pmt -Check	20285	01/09/2019	CML		11000 · Park State Ba...		-579.00
Bill		01/08/2019			66060 · Mountain Stat...	-579.00	579.00
TOTAL						-579.00	579.00
Bill Pmt -Check	20286	01/09/2019	Colorado Springs Uti...		11000 · Park State Ba...		-647.60
Bill		01/08/2019			62090 · CS-Utilities	-218.30	218.30
					64050 · Pool CS -Elec...	-17.78	17.78
					63400 · CS Utilities-El...	-270.34	270.34
					65002 · Parks-CS Utilit...	-50.34	50.34
					65010 · Parks-CS Utilit...	-31.70	31.70
					61206 · CS-Utilities	-59.14	59.14
TOTAL						-647.60	647.60
Bill Pmt -Check	20287	01/09/2019	Comcast		11000 · Park State Ba...		-123.92
Bill		01/08/2019			62080 · Comcast	-123.92	123.92
TOTAL						-123.92	123.92
Bill Pmt -Check	20288	01/09/2019	GovPro Consulting		11000 · Park State Ba...		-560.00
Bill		01/08/2019			62730 · Contract Servi...	-120.00	120.00
					62730 · Contract Servi...	-440.00	440.00
TOTAL						-560.00	560.00
Bill Pmt -Check	20289	01/09/2019	Hoffman, Parker, Wil...		11000 · Park State Ba...		-2,157.00
Bill		01/08/2019			66030 · Town Attorney...	-2,157.00	2,157.00
TOTAL						-2,157.00	2,157.00
Bill Pmt -Check	20290	01/09/2019	LOGAN SIMPSON		11000 · Park State Ba...		-7,438.73
Bill		01/09/2019			66400 · Professional S...	-7,438.73	7,438.73
TOTAL						-7,438.73	7,438.73
Bill Pmt -Check	20291	01/09/2019	Sanders Consulting		11000 · Park State Ba...		-165.00
Bill		01/08/2019			62720 · Sanders IT - S...	-165.00	165.00
TOTAL						-165.00	165.00

10:47 AM

01/10/19

## Town of Green Mountain Falls

## Check Detail

January 1 - 10, 2019

Type	Num	Date	Name	Item	Account	Paid Amount	Original Amount
Bill Pmt -Check	20292	01/09/2019	The Gazette		11000 · Park State Ba...		-169.96
Bill		01/08/2019			60800 · Legal Publicati...	-169.96	169.96
TOTAL						-169.96	169.96
Bill Pmt -Check	20293	01/09/2019	Waste Management		11000 · Park State Ba...		-90.57
Bill		01/08/2019			63700 · Trash	-90.57	90.57
TOTAL						-90.57	90.57
Bill Pmt -Check	20294	01/09/2019	Wilson & Company		11000 · Park State Ba...		-1,738.00
Bill		01/08/2019			63095 · Disaster Resp...	-1,738.00	1,738.00
TOTAL						-1,738.00	1,738.00
Bill Pmt -Check	20295	01/09/2019	Woodland Hardware ...		11000 · Park State Ba...		-18.28
Bill		01/08/2019			63035 · Office Supplies	-18.28	18.28
TOTAL						-18.28	18.28



## OATH OF OFFICE

STATE OF COLORADO )

EI PASO AND TELLER COUNTIES )

TOWN OF GREEN MOUNTAIN FALLS )

I, NATHAN SCOTT, DO SOLEMNLY SWEAR OR AFFIRM, THAT I WILL SUPPORT THE CONSTITUTION OF THE UNITED STATES AND OF THE STATE OF COLORADO; AND THE ORDINANCES OF THE TOWN OF GREEN MOUNTAIN FALLS; AND WILL FAITHFULLY PERFORM THE DUTIES OF AN APPOINTED MEMBER OF THE TOWN OF GREEN MOUNTAIN FALLS PLANNING COMMISSION.

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NATHAN SCOTT

### **ATTEST:**

Subscribed and sworn before me this 15th day of January, 2019.

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Jane Newberry, Mayor

## BOARD OF TRUSTEES AGENDA MEMO

<b>DATE:</b> January 10, 2019	<b>AGENDA NO</b> 4.c.	<b>SUBJECT:</b>  Resolution 2019-01
<b>Presented by:</b>  Laura Kotewa, Town Clerk/Treasurer		

### **Recommend action:**

Consider adoption of Resolution 2019-01.

### **Background:**

State law requires that at the first meeting of every year the Board adopt a resolution designating the official public notice posting place. This Resolution is presented to you in order to meet this requirement.

The posting location is specified the same as it was for 2018.

### **Issue Before the Board:**

Does the Board wish to adopt Resolution 2019-01, A Resolution of the Town of Green Mountain Falls Colorado, Designating The Official Public Notice Posting Place?

### **Alternatives**

- Adopt the Resolution as presented
- Adopt the Resolution with changes
- Do not adopt the Resolution and further direct staff regarding posting places.

### **Conclusion**

Passing this Resolution as it has been presented, or with Board recommended changes, will ensure Town Board C.R.S. compliant (Section 24-6-401, 24-6-401(2) and 24-6-402(2)(c), for the upcoming year.



**RESOLUTION NO. 2019-01**

**A RESOLUTION OF THE TOWN OF GREEN MOUNTAIN FALLS  
COLORADO, DESIGNATING THE OFFICIAL PUBLIC NOTICE POSTING  
PLACE**

**WHEREAS**, Colorado Revised Statutes Section 24-6-401 declares that it is the policy of the State of Colorado that the formation of public policy is public business and may not be conducted in secret; and

**WHEREAS**, The meetings of the Board of Trustees and its appointed bodies within the meaning of CRS 24-6-402(2)(c) are open to the public; and

**WHEREAS**, CRS Section 24-6-402(2)(c) requires that any meetings at which the adoption of any proposed policy, position, resolution, rule, regulation or formal action occurs shall be held only after full and timely notice to the public has been provided; and

**WHEREAS**, CRS Section 24-6-402(2)(c) requires that the posted notice include specific agenda information where possible; and

**WHEREAS**, CRS Section 24-6-401(2)(c) requires that the public place for posting such notice shall be designated annually at the first regular meeting of each calendar year of the Board of Trustees; and

**WHEREAS**, The Board of Trustees desires to ensure that all local public body meetings comply with the provisions of the laws of the State of Colorado; and

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE TOWN OF GREEN MOUNTAIN FALLS, COLORADO, THAT:**

Town Hall, located at 10615 Green Mountain Falls Road, is to be the official posting place for all meeting notices. The posting will be visible from the exterior of the building. Where possible, the Post Office and website may be used in addition.

**INTRODUCED, READ and PASSED** this 15<sup>th</sup> day of January 2019

TOWN OF GREEN MOUNTAIN FALLS,  
COLORADO

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Jane Newberry, Mayor

(SEAL)

ATTEST:

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Laura Kotewa, Town Clerk

## BOARD OF TRUSTEES AGENDA MEMO

<b>DATE:</b> January 10, 2019	<b>AGENDA NO</b> 4.d.	<b>SUBJECT:</b>  Resolution 2019-02
<b>Presented by:</b>  Laura Kotewa, Town Clerk/Treasurer		

### **Recommend action:**

Consider adoption of Resolution 2019-02.

### **Background:**

State law requires that a statutory town appoint its officers at the first meeting after an election. And of course this can happen whenever there is a change in officers, as we have in this case.

The law doesn't specify the mechanism needed to appoint officers, but traditionally here and in other municipalities it is done by resolution. Ms. Kotewa was appointed and administered the oath of office on December 4, 2018. This resolution formalizes that appointment

### **Issue Before the Board:**

Does the Board wish to adopt Resolution 2019-02, A Resolution Of The Town Of Green Mountain Falls Colorado, Making Appointment Of Town Clerk?

### **Alternatives**

- Adopt the Resolution as presented
- Adopt the Resolution with changes
- Do not adopt the Resolution and further direct staff regarding posting places.

### **Conclusion**

Passing this Resolution as it has been presented, or with Board recommended changes, will carry forward the Town's past practice of formality in its appointments, and document compliance with Section 31-10-304.

**RESOLUTION NO. 2019-02**

**A RESOLUTION OF THE TOWN OF GREEN MOUNTAIN FALLS  
COLORADO, MAKING APPOINTMENT OF TOWN CLERK**

**WHEREAS**, Colorado Revised Statutes 31-10-304 requires the Town Board of Trustees to appoint a Clerk, Treasurer, and Attorney, as well as any other officers it deems necessary; and

**WHEREAS**, this statute further specifies that the appointment of officers shall not extend more than 30 days after election; and

**WHEREAS**, The Town of Green Mountain Falls' Code of Ordinances Section 2-21(b) also provides the authority of the Board of Trustees to appoint officers;

**WHEREAS**, in addition to the Clerk, Treasurer, and Attorney, the Board of Trustees wishes to also appoint a Town Manager and Marshal;

**WHEREAS**, Laura Kotewa was appointed by Board action on December 4, 2018;

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF  
THE TOWN OF GREEN MOUNTAIN FALLS, COLORADO, THAT:**

1. Laura Kotewa is appointed as Town Clerk/Treasurer with an effective date of December 4, 2018. She replaces Judy Egbert as Interim Town Clerk.
2. All other Town Officials remain in place as appointed by Resolution No. 2018-04 on April 21, 2018.

**INTRODUCED, READ and PASSED** this 15<sup>th</sup> day of January 2019.

TOWN OF GREEN MOUNTAIN FALLS,  
COLORADO

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Jane Newberry, Mayor

(SEAL)

ATTEST:

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Laura Kotewa, Town Clerk

## BOARD OF TRUSTEES AGENDA MEMO

<b>DATE:</b> January 10, 2019	<b>AGENDA NO</b> 4.f.	<b>SUBJECT:</b>  Resolution 2019-03
<b>Presented by:</b>  Laura Kotewa, Town Clerk/Treasurer		

### **Recommend action:**

Consider adoption of Resolution 2019-03.

### **Background:**

This Resolution is necessary to make changes to authorities for banking transactions. It removes Trustee Thorne and adds Town Clerk Treasurer Laura Kotewa.

### **Issue Before the Board:**

Does the Board wish to adopt Resolution 2019-03, A Resolution Of The Town Of Green Mountain Falls Colorado, Designating Authorized Signatories On Town Bank Accounts And Individuals Authorized to Conduct Online Banking On Behalf Of The Town?

### **Alternatives**

- Adopt the Resolution as presented
- Adopt the Resolution with changes
- Do not adopt the Resolution and further direct staff regarding posting places.

### **Conclusion**

Passing this Resolution as it has been presented, or with Board recommended changes, will ensure that the appropriate Town officials have authority to conduct business, and that banking activities will not be interrupted.

**RESOLUTION NO. 2019-03**

**A RESOLUTION OF THE TOWN OF GREEN MOUNTAIN FALLS,  
COLORADO, DESIGNATING AUTHORIZED SIGNATORIES ON TOWN  
BANK ACCOUNTS AND INDIVIDUALS AUTHORIZED TO CONDUCT  
ONLINE BANKING ON BEHALF OF TOWN**

**WHEREAS**, the Board of Trustees desires to designate the individuals with authority on behalf of the Town for activity involving the Town's bank accounts

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF  
THE TOWN OF GREEN MOUNTAIN FALLS, COLORADO, THAT:**

Section 1. The following individuals shall be the sole authorized signatories on behalf of the Town for Town bank accounts:

1. Jane Newberry, Mayor
2. Tyler Stevens, Mayor Pro Tem
3. Jason Wells, Interim Town Administrator
4. Laura Kotewa, Town Clerk/Treasurer

Section 2. The following individuals shall be the sole individuals authorized to access the Town's bank accounts online and conduct online banking activity on behalf of the Town:

1. Jason Wells, Interim Town Administrator
2. Laura Kotewa, Town Clerk/Treasurer

**INTRODUCED, READ and PASSED** this 15<sup>th</sup> day of January 2019.

TOWN OF GREEN MOUNTAIN FALLS,  
COLORADO

\_\_\_\_\_  
Jane Newberry, Mayor

(SEAL)

ATTEST:

\_\_\_\_\_  
Laura Kotewa, Town Clerk

## BOARD OF TRUSTEES AGENDA MEMO

<b>DATE:</b> January 10, 2019	<b>AGENDA NO</b> 4.h	<b>SUBJECT:</b>  Resolution 19-04
<b>Presented by:</b>  Laura Kotewa, Town Clerk/Treasurer		

### Recommend action:

Consider adoption of Resolution 2019-04.

### Background:

After Resolution 2018-24, A Resolution Naming Appointments to Committees, Commissions, And Other Outside Agencies, was approved and submitted to the PPRTA, Mr. Rick Sonnenburg found, during his review, some items that needed attention. First, there isn't an alternate for Trustee Stevens for the PPRTA Board. There has been an alternate for the Board in the past and the Board Bylaws allows this. Second, Mayor Newberry and Trustee Stevens are listed as alternates on the CAC for Ms. Ann Esch and Mr. Reb Williams. The CAC Bylaws do not mention alternates from the member governments for CAC appointments.

These items have been adjusted in Proposed Resolution 19-04.

### Issue Before the Board:

Does the Board wish to adopt Resolution 2019-04, A Resolution Naming Appointees to Committees, Commissions, and Outside Agencies?

### Alternatives

- Adopt the Resolution as presented
- Adopt the Resolution with changes
- Do not adopt the Resolution and further direct staff regarding posting places.

### Conclusion

Passing this Resolution as it has been presented, or with Board recommended changes, will appropriately address the requests made by PPRTA to correct items according to their bylaws.

**GREEN MOUNTAIN FALLS, COLORADO  
RESOLUTION NO. 2019-04**

**A RESOLUTION NAMING APPOINTMENTS TO COMMITTEES,  
COMMISSIONS, AND OUTSIDE AGENCIES**

**WHEREAS**, the Board of Trustees of the Town of Green Mountain Falls, Colorado, pursuant to Colorado statute and the Town of Green Mountain Falls Municipal Code, is vested with the authority of administering the affairs of the Town of Green Mountain Falls, Colorado; and

**WHEREAS**, the Board of Trustees appoints members to the Planning Commission for regular, limited terms; and

**WHEREAS**, the Board of Trustees appoints members to various standing and ad-hoc advisory committees for regular, limited terms; and

**WHEREAS**, the Board of Trustees appoints various people to outside agency appointments to represent the interests of the town; and

**WHEREAS**, minimizing vacancies to these appointments – whether by reappointment or new appointment in advance of term expirations – maximizes continuity in each agency;

**NOW THEREFORE BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE TOWN OF GREEN MOUNTAIN FALLS, COLORADO, THAT:**

**Section 1.**

The following members, alternates, or secretaries—as indicated—are hereby appointed, nominated, or reaffirmed to these commissions, committees, and outside agencies for the terms as specified:

<b>Member Name</b>	<b>Term Beginning*</b>	<b>Term Ending**</b>
<b>GMF Planning Commission</b>		
<i>The Planning Commission is charged with advising the Board of Trustees in matters of building permits, parking, signage, architectural controls, planning, and zoning, as well as the formulation of a Comprehensive Plan. The Commission consists of a fixed membership of five (5) members serving two (2) year terms, until replaced, appointed by the Board of Trustees. The Planning Commission itself elects a Chair and Vice Chair from among their members.</i>		

Member Name		Term Beginning*	Term Ending**
<i>The Board of Trustees may designate a Secretary who is not a Member of the Commission. In addition, the Mayor is a non-voting ex-officio member of the Planning Commission.</i>			
<i>Town Code Chapter 2 Article IX C.R.S. Title 31 Article 23 Part 2</i>			
Eric Caldwell	(3)	June 3, 2018	June 3, 2020
Dick Bratton	(2)	January 20, 2017	January 20, 2019
Rocco Blasi	(1)	April 12, 2017	April 12, 2019
Greg Williamson	(1)	June 20, 2017	June 20, 2019
Nathan Scott	(1)	January 16, 2018	January 16, 2020
Katharine Guthrie (Secretary)			Until replaced
<b>GMF Parks &amp; Recreation Advisory Committee</b>			
<i>The Parks &amp; Recreation Advisory Committee is a standing committee charged with reviewing the maintenance and capital needs of the Town's parks, recreation facilities, and trails, as well as the formulation of a Parks &amp; Recreation Master Plan. The Committee consists of a fixed membership of seven (7) members serving staggered three (3) year terms, appointed by the Board of Trustees. The Committee itself elects a Chair and Vice Chair from among their members. In addition, the Board of Trustees appoints a Secretary who is not a Member of the Committee.</i>			
<i>Town Code Chapter 2 Article XII</i>			
Vacancy (Member)			
Vacancy (Member)			
Vacancy (Member)			
Vacancy (Member)			
Vacancy (Member)			
Vacancy (Member)			
Vacancy (Member)			



Member Name	Term Beginning*	Term Ending**
Vacancy (Secretary)		
<b>GMF Trails Committee</b> <i>The Trails Committee is an ad-hoc committee charged with recommending for approval and carrying out a body of work maintaining and expanding the Town trail system. The Committee consists of a fixed membership of nine (11) members serving staggered three (3) year terms, appointed by the Board of Trustees. The Committee itself elects a Chair and Vice Chair from among their members. In addition, the Board of Trustees appoints a Secretary who is not a Member of the Committee.</i>		
Resolution 2017-09		
Dick Bratton	(1) January 16, 2018	January 16, 2022
Tom McCormick	(1) January 16, 2018	January 16, 2022
Claudia Eley	(1) January 16, 2018	January 16, 2022
Rocco Blasi	(1) January 16, 2018	January 16, 2022
Richard Truesdell	(1) January 16, 2018	January 16, 2021
Jan Smith	(1) January 16, 2018	January 16, 2021
Richard Brown	(1) January 16, 2018	January 16, 2021
Mike Lohman	(1) January 16, 2018	January 16, 2021
Greg Pfander	(1) January 16, 2018	January 16, 2020
Lisa Townsend	(1) January 16, 2018	January 16, 2020
Rebecca Ochkie	(1) January 16, 2018	January 16, 2020
Vacancy (Secretary)		Until replaced
<b>PPACG Board of Directors</b> <i>The Pikes Peak Area Council of Governments is comprised of membership spanning 16 participating local counties and municipalities. Its Board of Directors is charged with establishing objectives and policies related to issues that cross political boundaries, shared opportunities and challenges, and collaborative strategies for action. As a participating</i>		

<b>Member Name</b>	<b>Term Beginning*</b>	<b>Term Ending**</b>
<i>member government, the Town Board of Trustees designates a voting representative and an alternate from among the elected Board of Trustees to represent the Town during their term of office.</i> <i>PPACG Board of Directors Bylaws, Article IV</i>		
Tyler Stevens, Trustee	April 18, 2016	April 21, 2020
Jane Newberry, Mayor (Alternate)	April 15, 2014	April 21, 2020
<b>PPACG Community Advisory Committee</b> <i>The Community Advisory Committee serves as the formal mechanism for the active participation of citizens in the planning, promotion, and evaluation of activities of the Pikes Peak Area Council of Governments, and assists the PPACG staff in keeping the general public informed relative to regional plans and programs. The CAC is a nontechnical body comprised of volunteers who offer a citizen's perspective on issues such as transportation, the environment, economic development and military impact planning in the Pikes Peak region. The Town Board of Trustees nominates a citizen representative who has a sincere interest in serving the community. The PPACG Board of Directors approves all nominations. Representatives may serve up to two (2) consecutive three (3) year terms.</i> <i>PPACG CAC Bylaws</i>		
Ann Esch	May 1, 2018	November 30, 2020
Jane Newberry/Tyler Stevens (alternates)	May 1, 2018	November 30, 2020
<b>PPACG Water Quality Management Committee</b> <i>The purpose of this committee is to advise the Pikes Pak Area Council of Governments and PPACG staff on current and emerging issues, goals, plans, and programs affecting the water quality of the Pikes Peak Region, to aid in the review of site applications, and to aid in the development of the water quality management plan updates and amendments.</i>		
Nathan Scott	December 18, 2018	December 31, 2021
<b>PPRTA Board of Directors</b> <i>The Pikes Peak Rural Transportation Authority Board of Directors has primary responsibility for the management and disbursement of funds generated by the Authority, and the activities that support those functions. As a participating member government, the Town Board of Trustees appoints a single Director from among the elected Board of Trustees to represent the Town, for a calendar year term of office.</i> <i>Intergovernmental Agreement Regarding the Pikes Peak Rural Transportation Authority</i>		

Member Name	Term Beginning*	Term Ending**
Tyler Stevens, Trustee	January 1, 2018	December 31, 2018
Insert alternate if appropriate		
<b>PPRTA Citizen Advisory Committee</b> <i>The 17-member Pikes Peak Rural Transportation Authority Citizen Advisory Committee's primary objective is to ensure the capital, maintenance, and public transportation projects and programs approved by voters during the November 2, 2004 election and the November 6, 2012 election are accomplished with PPRTA funds. The committee reports directly to the PPRTA Board of Directors, and is charged with reviewing the budgets of the five local member governments to monitor the expenditure of PPRTA funds on capital, maintenance, and public transportation projects and programs. The Town Board of Trustees appoints two members from among the residents of the PPRTA geographic boundaries to three-year staggered terms. Representatives from member governments do not have term limits.</i> PPRTA CAC Bylaws		
Ann Esch	January 1, 2017	December 31, 2020
Richard "Reb" Williams	January 1, 2019	December 31, 2021
Jane Newberry/Tyler Stevens (alternates)	May 1, 2018	April 21, 2020
<b>PPRBD Advisory Board</b> <i>The Pikes Peak Regional Building Department Advisory Board renders advice in the administration operation of the department in matters related to administration and financing and budget of the department. The Town Board of Trustees appoints one representative to the Advisory Board.</i> By-laws of the Regional Building Commission		
Chris Quinn, Trustee	March 2014	
<b>El Paso County Community Development Advisory Board (CDAB)</b> <i>On April 1, 2009, El Paso County became an "entitlement community" and was awarded a Community Development Block Grant (CDBG) from the U.S. Department of Housing and Urban Development (HUD) to carry out a wide range of community development activities directed toward revitalizing neighborhoods, economic development, and providing improved community facilities and services.</i>		

<b>Member Name</b>	<b>Term Beginning*</b>	<b>Term Ending**</b>
<p><i>The Community Development Advisory Board (CDAB) reviews matters of importance regarding the CDBG program and makes recommendations to the El Paso County Board of Commissioners concerning community development issues and use of CDBG funds.</i></p> <p><i>The CDAB is comprised of 12 voting members, including a representative from each of the municipalities participating in the El Paso County CDBG Program and a representative from each of the commissioner districts. Participating municipalities advise the Board of County Commissioners who they have designated as their representative. Members are appointed for five-year terms, with terms initially staggered, and are limited to serving two consecutive five-year terms.</i></p>		
Tyler Stevens	(2) May 2017	April 2022 X
<p><b>CML Policy Committee</b></p> <p><i>The Colorado Municipal League represents the shared interests of 269 of Colorado's 272 incorporated municipalities. The CML Policy Committee has significant policy development responsibilities. The committee is responsible for reviewing of requests from member municipalities for CML-initiated legislation and recommending specific positions to the CML Board, reviewing of requests for policy positions from member municipalities and recommending specific positions to the CML Board, review of known or potential legislative issues or bills, consideration of staff recommendations, and recommending specific positions to the CML Board, and review of the League's Annual Policy Statement that guides League positions on policy issues affecting municipalities and proposing revisions, if necessary, culminating in the ballot questions presented to CML members at the Annual Business Meeting that takes place as part of CML's Annual Conference. Each member municipality of CML is entitled to designate one representative to the League's Policy Committee. One alternate may also be designated, and that alternate should attend only if the appointed member is unable to attend.</i></p>		
Tyler Stevens, Trustee	July 2018	June 2019
Vacancy (Alternate)	July 2018	June 2019

\* (N) indicates that the specified term is the member's N<sup>th</sup> consecutive term.

\*\* "X" indicates that the member is term-limited at the conclusion of the specified term.

## **Section 2.**

Severability. If any article, section, paragraph, sentence, clause, or phrase of this Resolution is held to be unconstitutional or invalid for any reason such decision shall not affect the validity or constitutionality of the remaining portions of this Resolution. The Town Board hereby declares

that it would have passed this resolution and each part or parts thereof irrespective of the fact that any one part or parts be declared unconstitutional or invalid.

**Section 3.**

Repeal. Existing resolutions or parts of resolutions covering the same matters embraced in this resolution are hereby repealed and all resolutions or parts of resolutions inconsistent with the provisions of this resolution are hereby repealed except that this repeal shall not affect or prevent the prosecution or punishment of any person for any act done or committed in violation of any ordinance hereby repealed prior to the effective date of this resolution.

**Introduced, Read, Passed, and Adopted at a regular meeting of the Board of Trustees of the Town of Green Mountain Falls on this 4<sup>th</sup> day of December, 2018.**

**TOWN OF GREEN MOUNTAIN FALLS,  
COLORADO**

---

Jane Newberry, Mayor

**ATTEST:**

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Laura J. Kotewa, Town Clerk

## BOARD OF TRUSTEES AGENDA MEMO

<b>DATE:</b> January 10, 2019	<b>AGENDA NO</b> 4.i and j.	<b>SUBJECT:</b>
<b>Presented by:</b> Laura Kotewa, Town Clerk/Treasurer		Erosion Control Plan, 2 Carsell Way; Clarity Needed as to Other Plan Review Requirements

### **Recommend action:**

Consideration of Planning Commission Recommendation to Approve Erosion Control Plan for 2 Carsell Way.

### **Background:**

On October 9<sup>th</sup>, the Green Mountain Falls-Chipita Park Fire Department submitted to the Town Planning Commission for its consideration – through its engineer, F&D International, LLC – a 90 percent complete site plan for the referenced project. This submittal was consistent with Green Mountain Falls Municipal Code Section 17-92, which in part establishes that “an erosion control plan shall be prepared for all land-disturbing activities of three hundred (300) square feet or fifty (50) cubic yards or more...”. Per Section 17.92(e), “[t]he Planning Commission will review the plan submitted and make a recommendation to the Board of Trustees.”

In addition to the erosion control plan requirement established by the Code, the Planning Commission also maintains independent authority to issue grading permits pursuant to Section 17-85(c). Section 17-83 of the Code further affords applicants the ability to “combine the grading and erosion control plans.” Consistent with this Section, the October 9<sup>th</sup> Planning Commission minutes reflect a unanimous motion by that Board to approve the applicant’s grading permit while referring the erosion control plan to the Town Board for final consideration and approval. This recommendation was conditional on Town staff retaining the services of a qualified engineer to review the draft plan and to render comments thereupon. Staff engaged Kiowa Engineering for this purpose and its findings are included with this memo.

### **Issue Before the Board:**

Per Section 17-92(e), once the Board of Trustees receives a recommendation of this type from the Planning Commission, such recommendation shall be “approved, approved with modifications, approved with performance reservation or disapproved.” The decision among these options comes before the Board here, keeping in mind that if the plan is denied the Board’s decision must “specifically state in writing the reasons for denial.”

### **Other Related Issues to Consider:**

It appears that the Planning Commission’s fulfillment of its general plan review role has been somewhat broadly applied in recent years and some clarity on intended process would be helpful. The Town’s current fee schedule includes a “Plan/Architectural Review” fee while the schedule cites Section 16-705 of the Code. This section generally pertains to the design of new structures or exterior renovations thereto. In this instance, the Fire Department has not yet presented final architectural drawings for its new facility and the question therefore remains whether the project is ripe to undergo the Town’s established plan review process. While the Planning Commission’s authority to undertake a review process at the architectural design stage is clear, staff notes that the Code references numerous preceding stages in the development planning process and asks that the Board provide some clarity in terms of when the “plan review” requirement is triggered at the Planning Commission level and if it is perhaps triggered at multiple levels. In particular, the Code offers merely vague references to “site plans” such as that submitted here by F&D, as well as to “development plans,” which are better defined in Section 16-712 of the Code. Each such plan will typically be completed ahead of the final architectural design, as was the case here. So, while staff has not yet processed a “plan review” fee/application for this project, some Board input would be helpful in terms of when that process should occur.

Moreover, the Town's current fee schedule seemingly blurs the distinction between *grading permits* and *erosion control plans*. Again, while the Planning Commission maintains individual authority to issue the former, the Town Board must approve the latter upon recommendation from the Commission. The fee schedule however references only a "grading plan review." Some Board direction in terms of whether this fee is meant to apply either to each requirement or one and not the other would be helpful as to both this project and those that follow.

## **Conclusion**

It is clear the applicant's erosion control plan is ready for Board consideration. Of additional consideration however is when staff should facilitate the formal plan review approval process in this instance, and generally, when that requirement tolls. It would also be helpful if the Board would provide some specific feedback as to the grading plan/erosion control plan distinction.



## The Town of Green Mountain Falls

P.O. Box 524, 10615 Green Mountain Falls Road, Green Mountain Falls, CO 80819 (719) 684-9414

[www.colorado.gov/greenmountainfalls](http://www.colorado.gov/greenmountainfalls)

### **2019 APPLICATION – EROSION CONTROL PLAN REVIEW**

\*payment is due 10 days before work begins

\*Must be accompanied by statement of financial responsibility and ownership

APPLICANT: Green Mountain Falls/Chipita Park Fire Protection District

MAILING ADDRESS: 10380 Ute Pass Ave

Green Mountain Falls, CO 80819

PHONE NUMBER: 719-684-2293

LOCATION OF EXCAVATION SITE: Town Hall Site, Carsell Way ROW, and Two Carsell Way

DATE WORK IS TO BE STARTED: 25 January 2019 COMPLETED: Est. 31 March 2020

WILL THIS WORK INCLUDE ROAD BUILDING - TEMPORARY OR PERMANENT: YES x NO   

LAND DISTURBANCE AREA IN SQUARE FEET OR CUBIC YARDS: Est. 96,000 ft<sup>2</sup>

BRIEF PROJECT DESCRIPTION: \_\_\_\_\_

Construction of a Fire Station, storm drainage improvements, and ROW improvements

*For Gary Florence by*

SIGNATURE

District Treasurer

TITLE

DATE 10 JAN 2019

\*Reference Section 17-92 of Green Mountain Falls Municipal Code

Fee can be found in the current year fee schedule on our website under Forms.

For office use:

Fee Amount: \_\_\_\_\_ Date Collected: (due 10 days before project start date) \_\_\_\_\_

Payment Type: \_\_\_\_\_

Independent Engineering Review Date (if applicable) : Kiowa Engineering 18 Oct 2018

Planning Commission Action/Date (attach minutes) : 25 Oct 2018

BOT Approval Date: \_\_\_\_\_



**TOWN OF GREEN MOUNTAIN FALLS  
PLANNING COMMISSION MEETING  
Tuesday, Oct 9, 2018- 6:30 PM at Town Hall**

**AGENDA**

1. CALL TO ORDER/ROLL CALL, welcome guests
2. ADDITIONS, DELETIONS, CORRECTIONS TO THE AGENDA
3. APPROVE MINUTES of Sep 25, 2018
4. PUBLIC INPUT- For any items **not** on the Agenda
5. NEW BUSINESS
  - a. 11150 Belvidere Deck Replacement- Gregory Williamson- Contractor ACC Home Improvement
6. OLD BUSINESS
  - a. New FIRE STATION- Gary Florence  
Review Grading Plan, Drainage Report, Erosion Control Plan, Final Plat
  - b. 2019 CAPITAL IMPROVEMENTS PROGRAM (CIP)  
Prioritize Projects for 2019 Town Budget consideration
  - c. Frequently Asked Questions (FAQ) for Town Website  
GMF Submittal requirements for Building Permits and other Permits (Cactus)
  - d. GMF COMPREHENSIVE PLAN - Megan Moore, Logan Simpson Company
    1. Overall Process and Schedule
    2. Preliminary Vision and Supporting Themes
    3. Preliminary Conditions Assessment by Theme
    4. Citizen Survey- Coordination and Logistics
    5. Next Steps
7. ADJOURN

**TOWN OF GREEN MOUNTAIN FALLS  
PLANNING COMMISSION MEETING  
Tuesday, September 25, 2018 – 6:30 P.M.**

**MEETING MINUTES**

**PC Members Present**

Vice Chairman Dick Bratton  
Commissioner Greg Williamson  
Commissioner Rocco Blasi  
Chairman Eric Caldwell

**PC Members Absent**

Commissioner Gerald Irwin

**Board of Trustees Members**

Mayor Jane Newberry

**Secretary**

Katharine Guthrie

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**1. Call to Order/Roll Call**

Chairman Eric Caldwell called the meeting to order at 6:36 pm.

**2. Additions, Deletions, or Corrections to the Agenda**

**M/S:** Caldwell/Williamson

**Motion:** Move to accept the agenda as submitted.

**Vote:** Motion carried. All yea.

**3. Approve Minutes of September 11, 2018**

**M/S:** Bratton/Caldwell

**Motion:** Move to approve the minutes as submitted.

**Vote:** Motion carried. All yea.

**4. Public Input**

None

**5. New Business**

A. Review draft 2018-2024 Capital Improvements Plan (CIP)

Projects for 2019 need to be reviewed and prioritized and added to agenda for next meeting of the Planning Commission (10/9/2018)

B. Frequently Asked Questions (FAQ) for Town website and staff—Building Permits

Include: List of projects that do not require a permit

Clarification of permitting process (perhaps a flow chart)

What projects require a plan review and the process to obtain a plan review

Chairman Caldwell volunteered to work on this project.

**5. Old Business**

- A. 10565 Foster—Cabin Renovation, Bob Vanmaarth, Contractor. Request to place a new septic system on Town Property (Flagpole Park) Tabled from meeting on 9/11/18.

**M/S:** Bratton/Caldwell

**Motion:** Move that we deny the request for a revocable permit on town property.

**Vote:** Motion carries.

**Resolution:** Contractor was able to place the new septic system on his own property so there is no need to place it on town property.

B. GMF Comprehensive Plan

1. Progress Report—GMF Project Manager

Marshal is not to enforce Building Permits. Marshal is authorized to enforce municipal codes specific to GMF. Unpermitted work needs to be reported to Regional Building. Regional Building also enforces contractors licensing. GMF Business Licenses is a joint responsibility of Town Clerk working with the Marshal.

2. Next Steps

2007 Plan Audit—Logan Simpson to do an analysis of the 2007 Comprehensive Plan and how it operates today.

Citizen Survey—Online, Paper, and to be added to GMF facebook page

Logan Simpson is drafting the Overall Vision and will create a second Citizen Survey around the Vision

Joint Town Meeting #2—Visioning (to be scheduled)

**6. Correspondence**

None

**Adjourned: 7:34**

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**Eric Caldwell-Chairman**

**ATTEST:**

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**Katharine Guthrie-Secretary**



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International, LLC

Architecture - Engineering  
Project Management  
1930 CENTRAL AVE., SUITE 8  
BOULDER, COLORADO 80302  
T : 303.652.3200  
www.fid-one.com

GREEN MOUNTAIN FALLS FIRE DISTRICT  
Fire Station Project Two Carsell Way  
Green Mountain Falls, El Paso County, CO

REVISIONS

1. 75% CD SET 30 AUG 2018  
2. 90% BID SET 30 SEP 2018

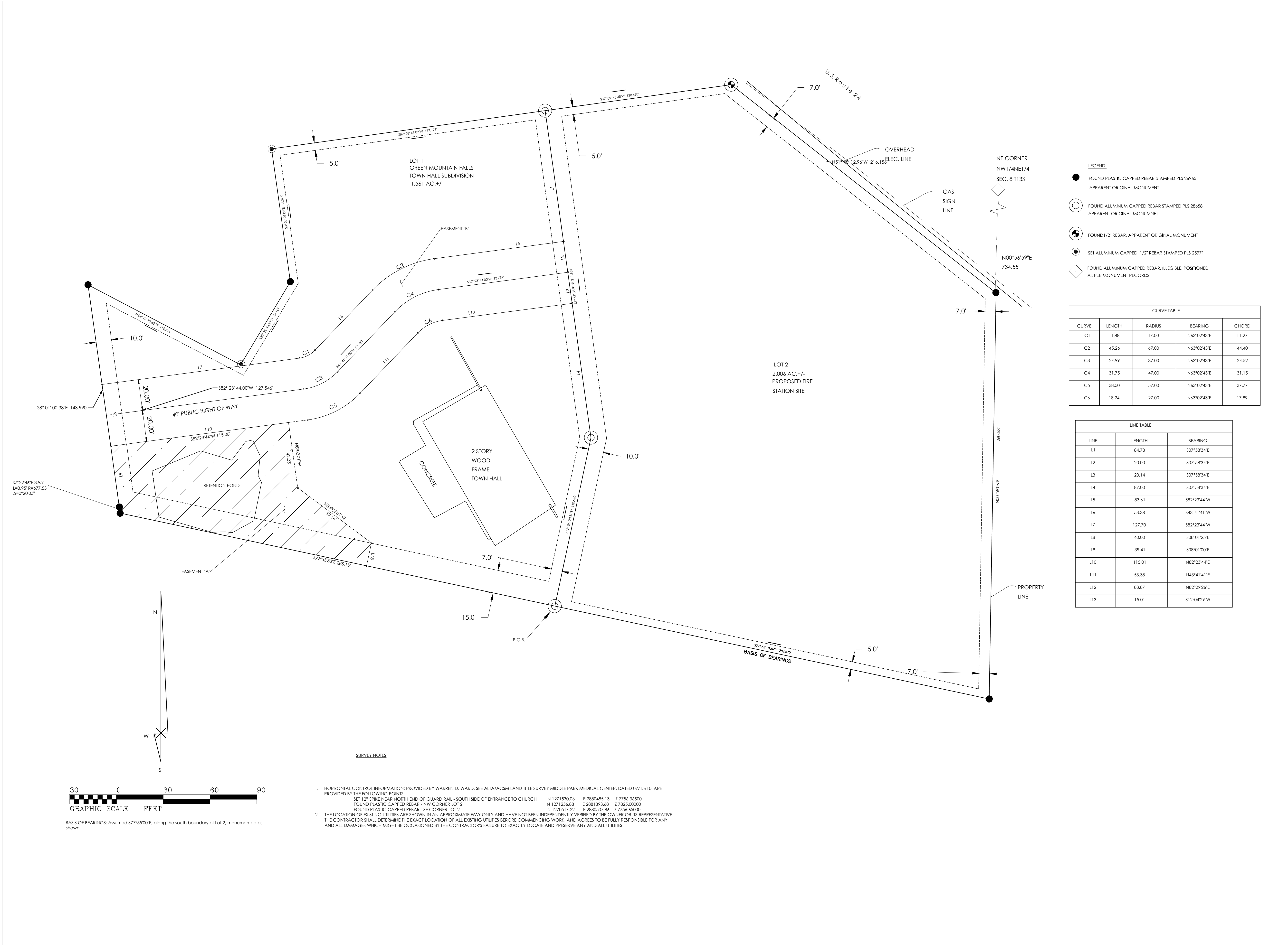


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BOUNDARY  
SURVEY &  
TOPO PLAN

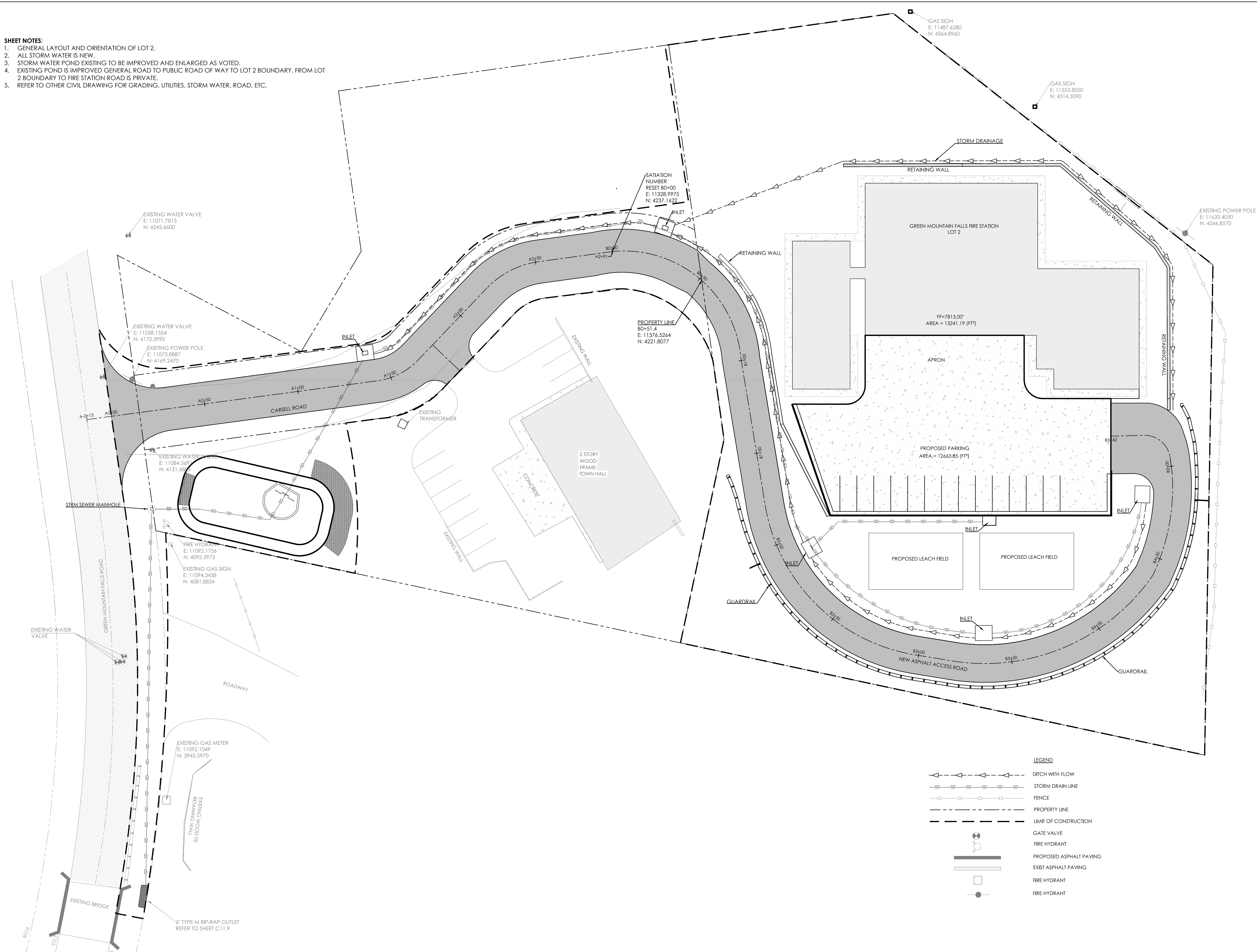
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90% BID DRAWINGS





- SHEET NOTES:**
1. GENERAL LAYOUT AND ORIENTATION OF LOT 2.
  2. ALL STORM WATER IS NEW.
  3. STORM WATER POND EXISTING TO BE IMPROVED AND ENLARGED AS VOTED.
  4. EXISTING POND IS IMPROVED GENERAL ROAD OF WAY TO LOT 2 BOUNDARY. FROM LOT 2 BOUNDARY TO FIRE STATION ROAD IS PRIVATE.
  5. REFER TO OTHER CIVIL DRAWING FOR GRADING, UTILITIES, STORM WATER, ROAD, ETC.



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## GREEN MOUNTAIN FALLS FIRE DISTRICT

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Green Mountain Falls, El Paso County, CO

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DATE: 30-SEP-18  
DRAWN BY: H.A  
CHECK BY: T.E.F

### GENERAL OVERVIEW CIVIL SITE PLAN

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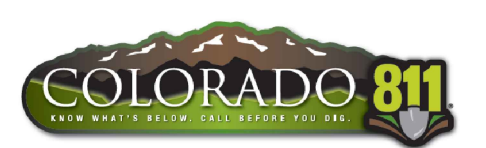


# GREEN MOUNTAIN FALLS FIRE DISTRICT

Fire Station Project Two Carsell Way  
Green Mountain Falls, El Paso County, CO

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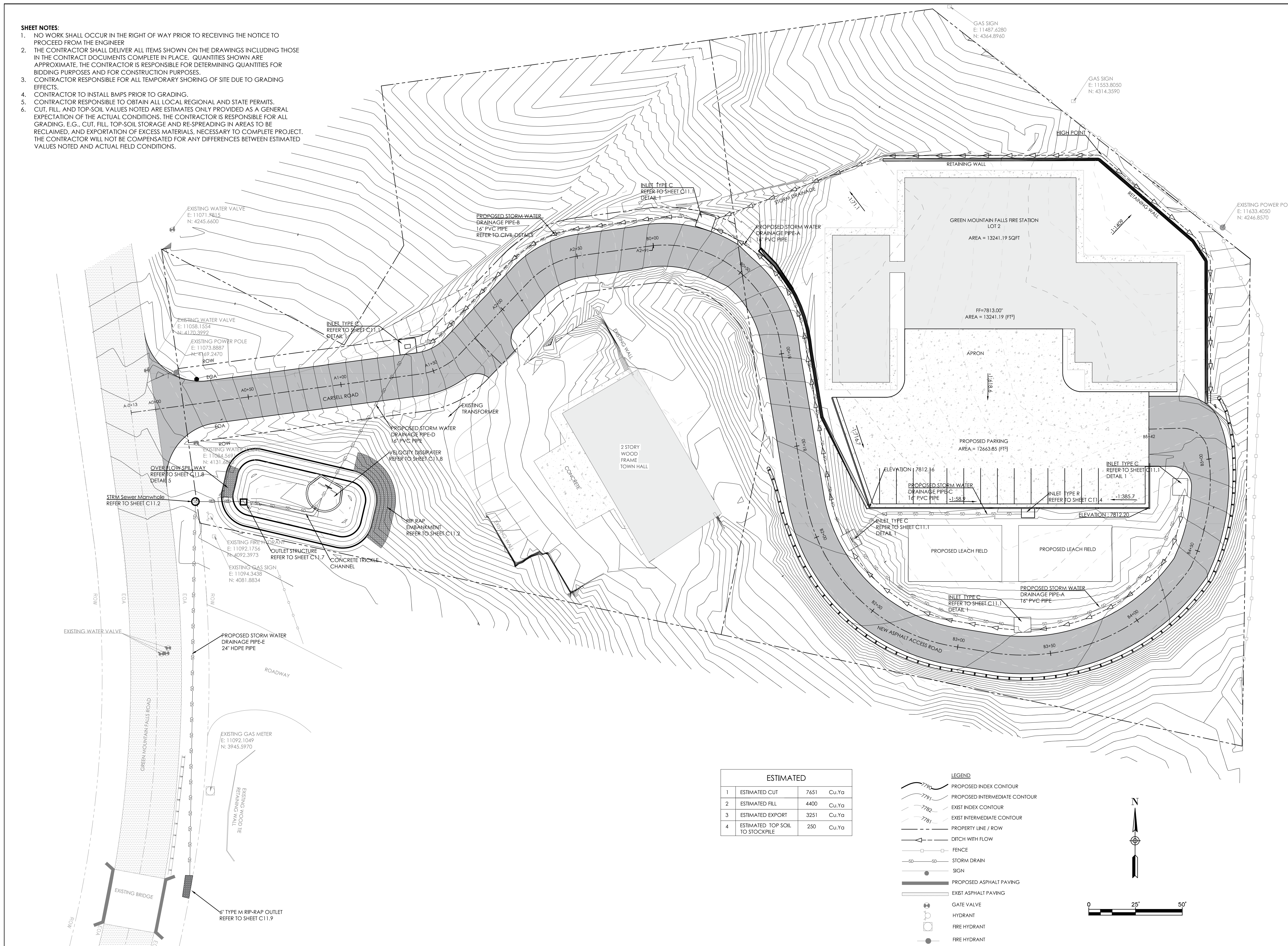


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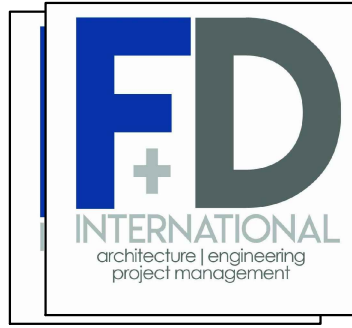
## GRADING AND DRAINAGE PLAN

C 3.0

90% BID DRAWINGS







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GRADING AND  
DRAINAGE PLAN

C 3.1

90% BID DRAWINGS

- SHEET NOTES:
1. NO WORK OUTSIDE OF RIGHT OF WAY.
  2. OPEN CUT THROUGH PROPERTY ACCESS OWNER; STEEL PLATE CUT TO MAINTAIN ACCESS.
  3. PROVIDE PROPOSE SIGNAGE PER LATERAL EDITION OF MUTCD.

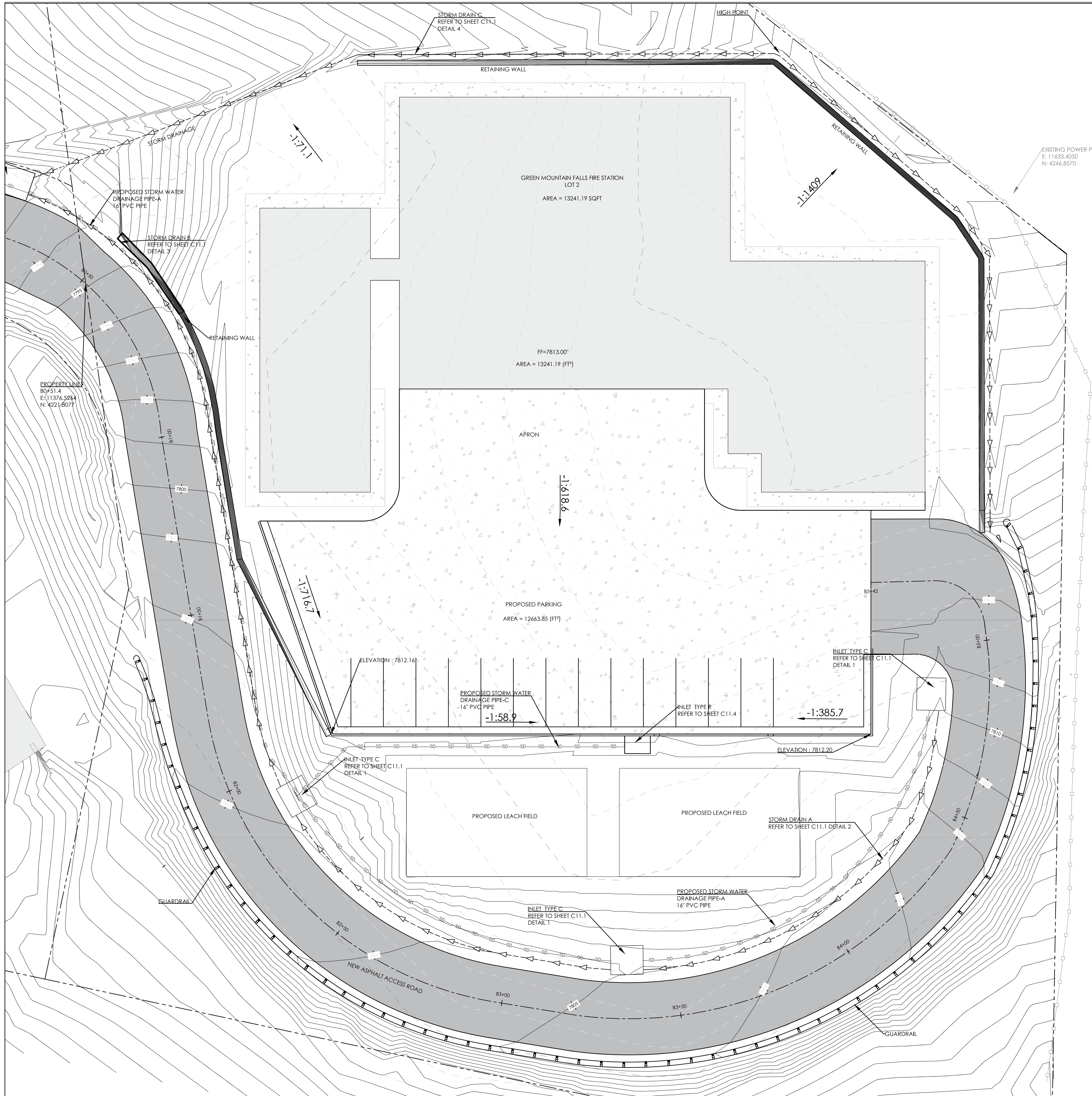
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  - STORM DRAIN
  - SIGN
  - PROPOSED ASPHALT PAVING
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  - GATE VALVE
  - HYDRANT
  - FIRE HYDRANT
  - FIRE HYDRANT



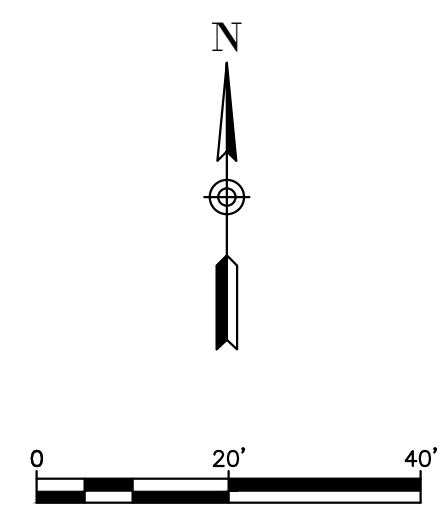
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- LEGEND**
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90% BID DRAWINGS



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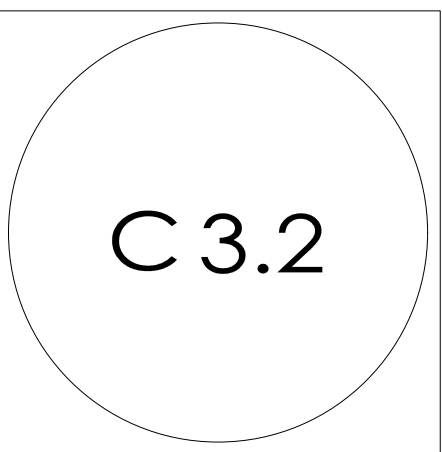
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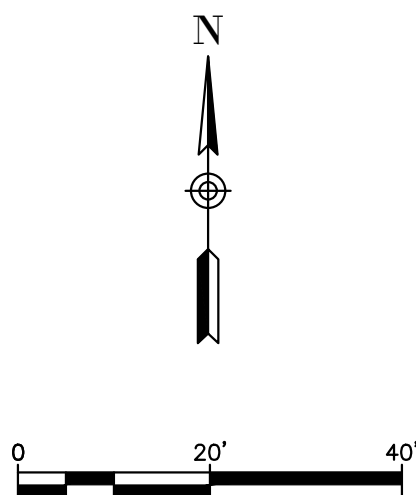
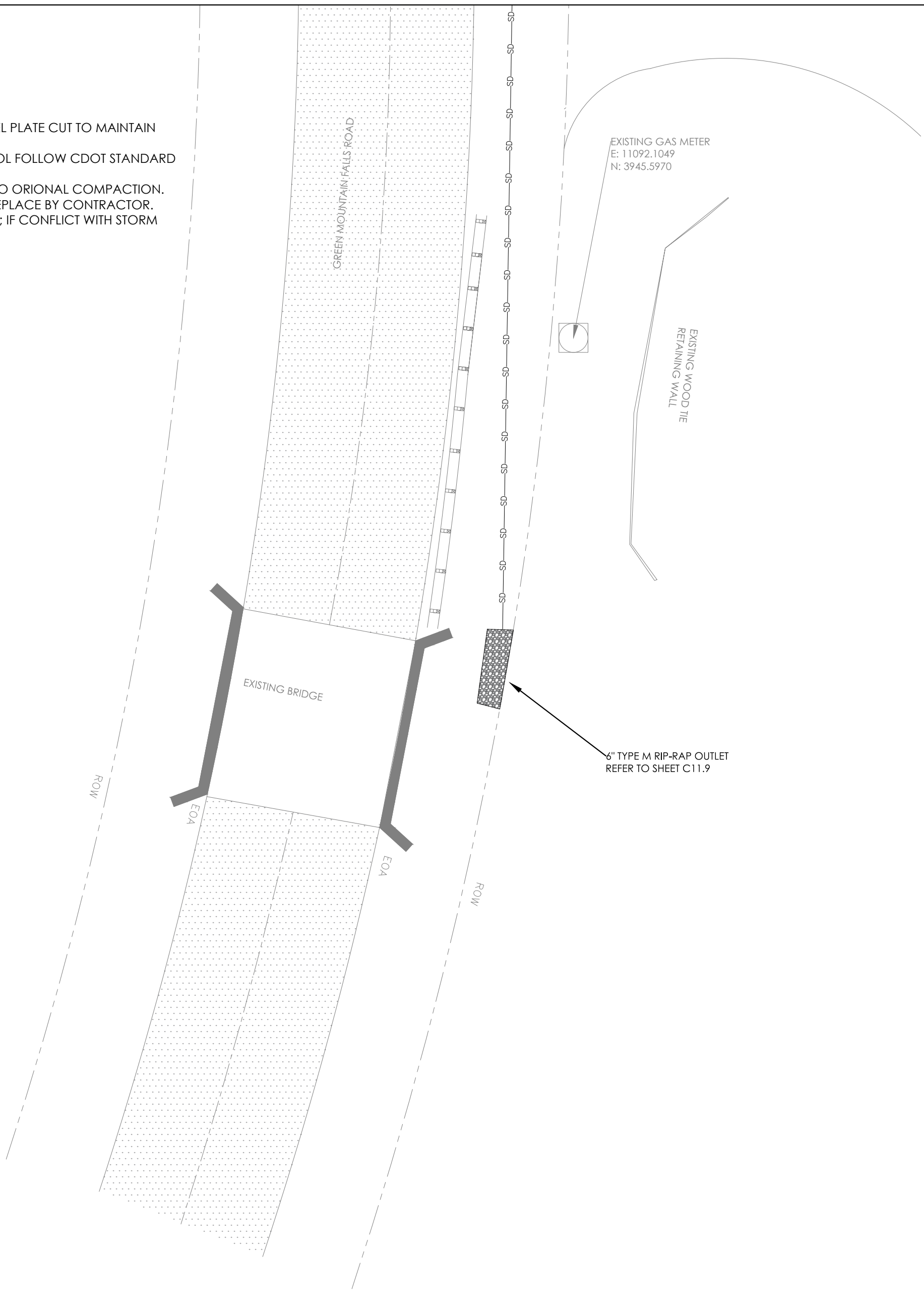
**GRADING AND  
DRAINAGE PLAN**





SHEET NOTES:

1. NO WORK OUTSIDE OF RIGHT OF WAY.
2. OPEN CUT THROUGH PROPERTY ACCESS OWNER; STEEL PLATE CUT TO MAINTAIN ACCESS.
3. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL FOLLOW CDOT STANDARD AND M.U.T.C.D
4. CONTRACTOR TO RESTORE ALL DISTURBED GROUND TO ORIGNAL COMPACTION.
5. DAMAGE TREES AND OTHER PLANT MATERIAL TO BE REPLACE BY CONTRACTOR.
6. CONTRACTOR TO LOCATED ALL UTILITIES BY POTHOLE ; IF CONFLICT WITH STORM PIPING CONTRACTOR TO NOTIFY ENGINEER.



LEGEND	
	PROPOSED INDEX CONTOUR
	PROPOSED INTERMEDIATE CONTOUR
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	EXIST INTERMEDIATE CONTOUR
	PROPERTY LINE / ROW
	DITCH WITH FLOW
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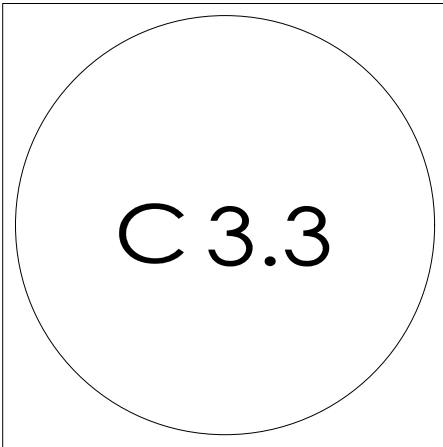
REVISIONS

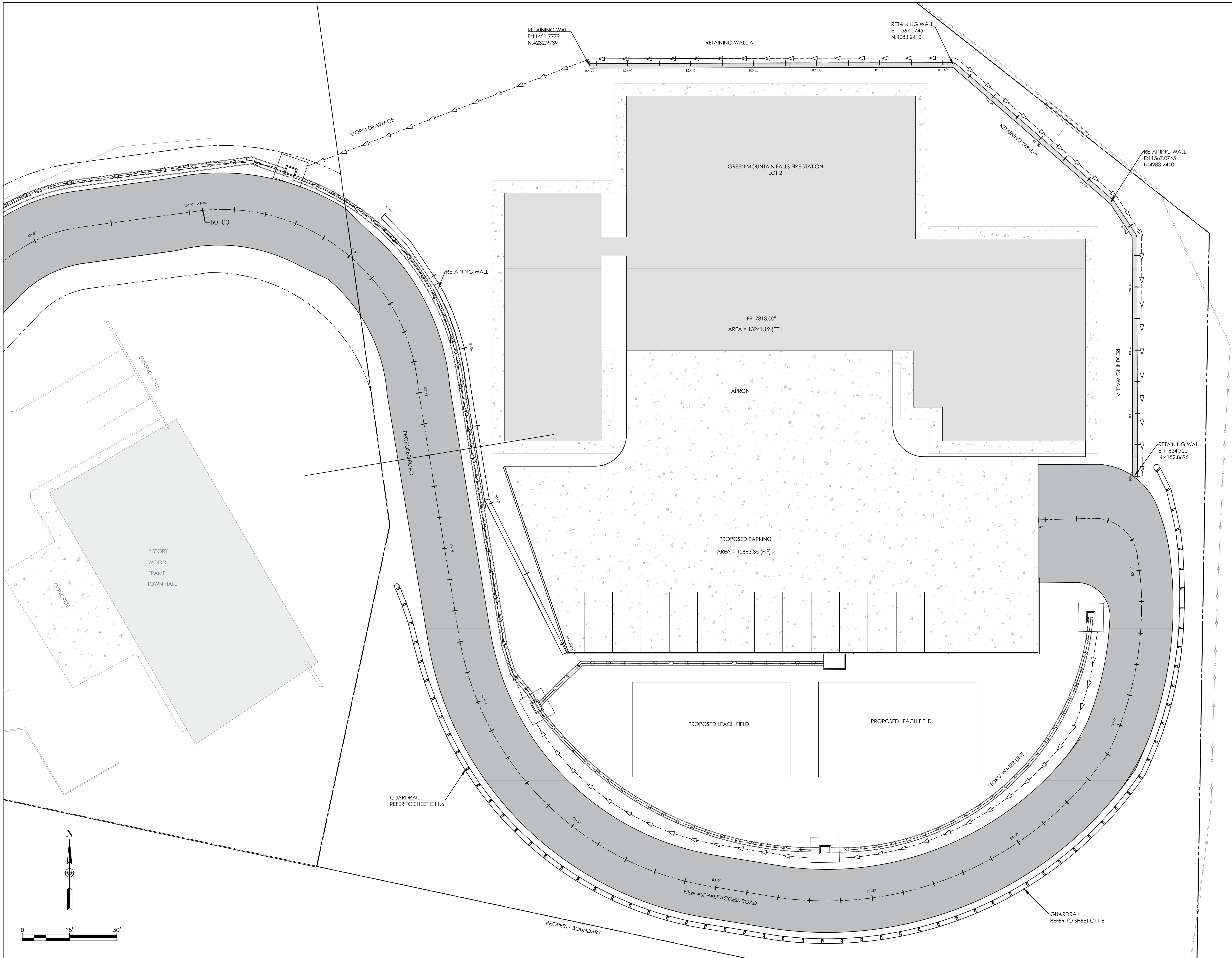
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GRADING AND  
DRAINAGE PLAN





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## GREEN MOUNTAIN FALLS FIRE DISTRICT

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### REVISIONS

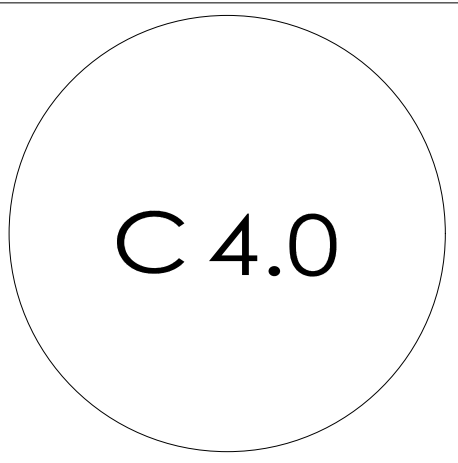
1. 75% CD SET 30 AUG 2018
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### RETAINING WALLS PLAN

90% BID DRAWINGS







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GREEN MOUNTAIN FALLS FIRE DISTRICT

Fire Station Project Two Carsell Way  
Green Mountain Falls, El Paso County, CO

REVISIONS

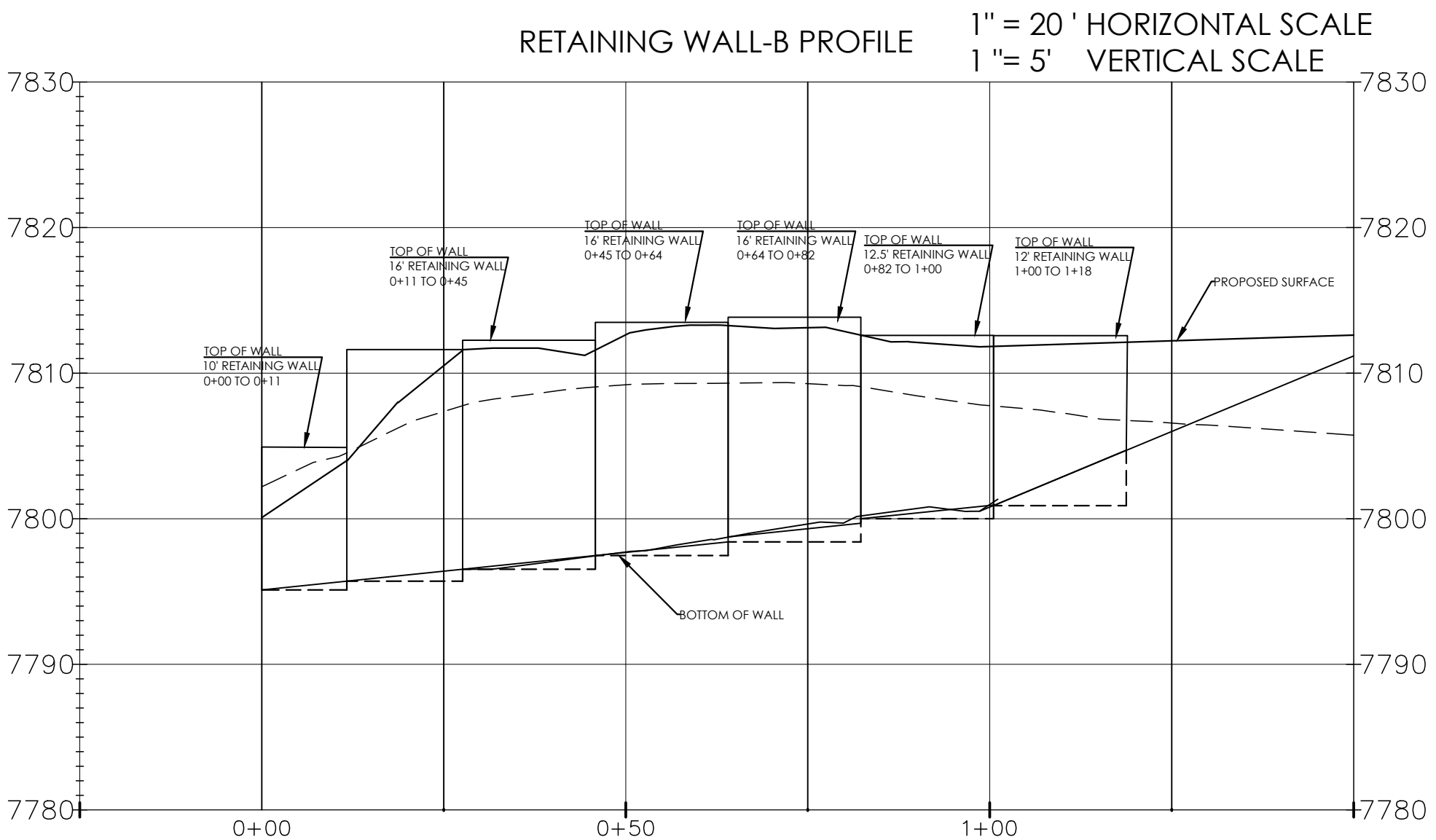
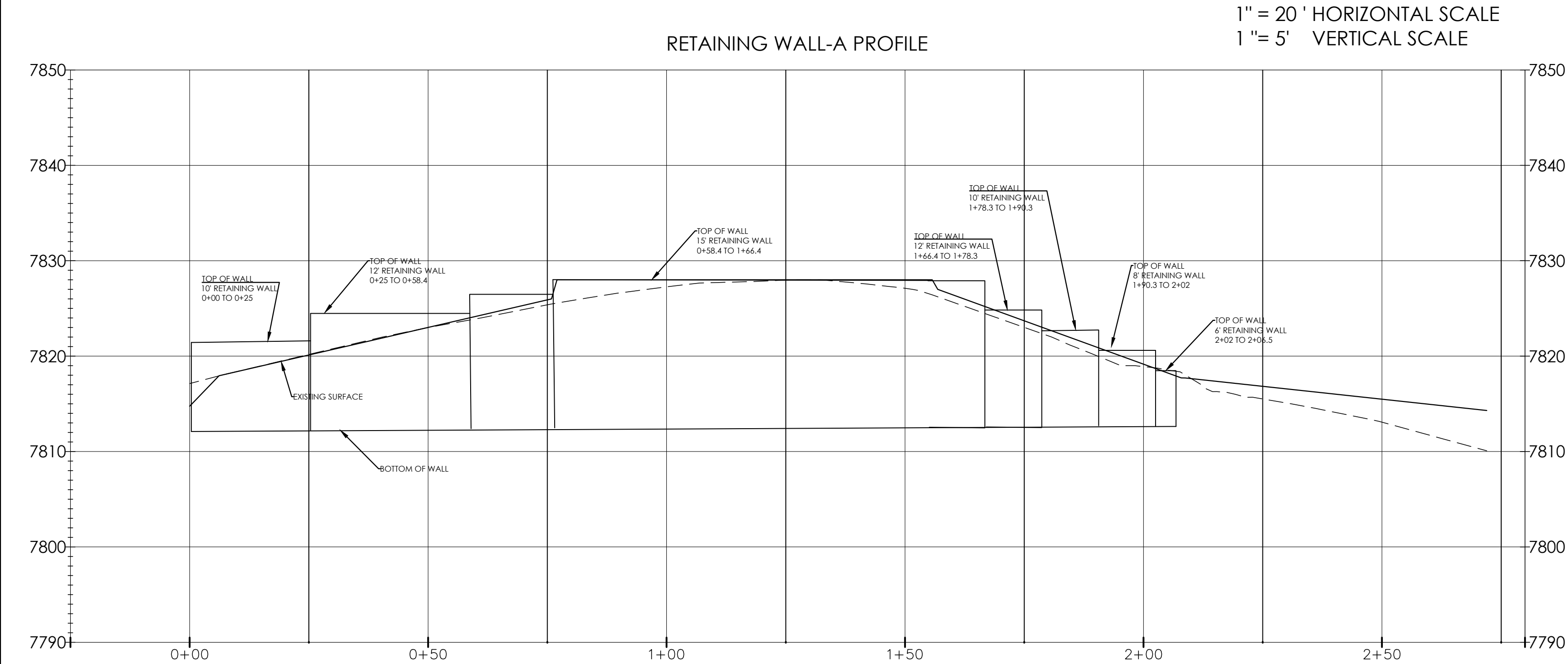
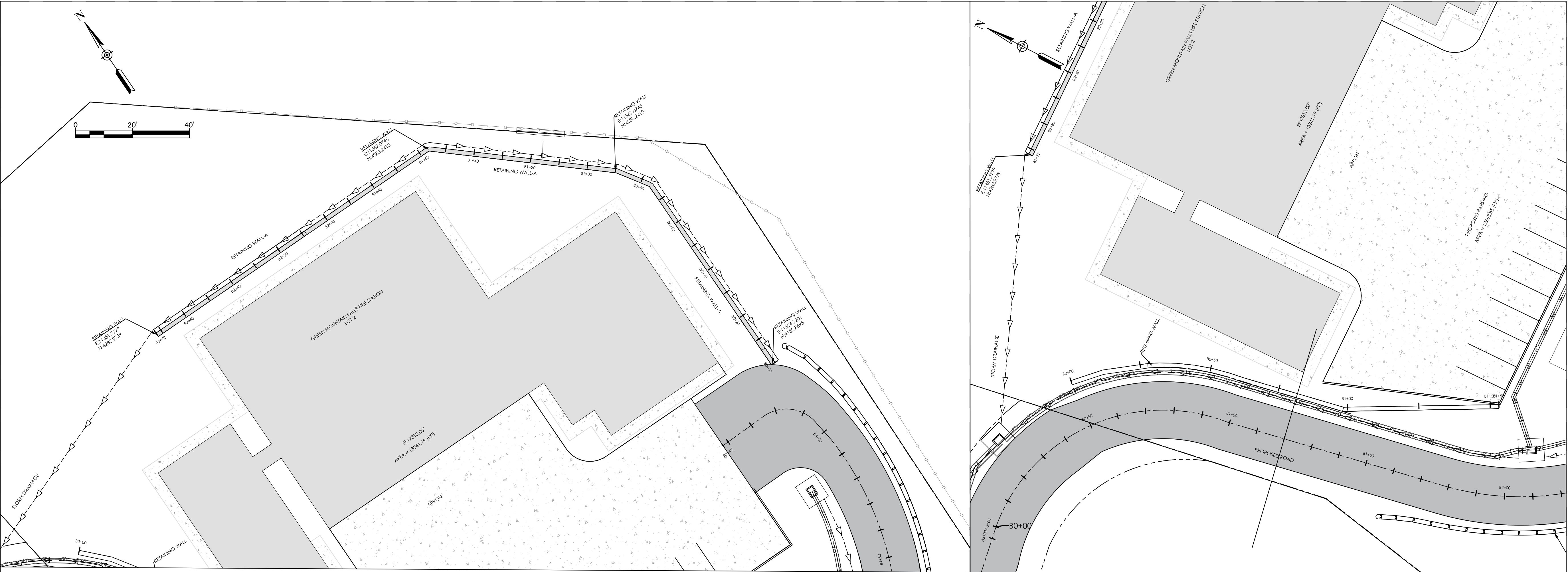
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RETAINING WALLS  
PLAN & PROFILE

C 4.1



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MAINTENANCE & FINAL STABILIZATION:

- INSPECTION & MAINTENANCE: THE EROSION CONTROL MEASURES SHALL BE OBSERVED DAILY DURING CONSTRUCTION BY THE IDENTIFIED ADMINISTER AND AFTER EACH RAIN EVENT, HEAVY PRECIPITATION EVENT, I.E., SNOW THAT RESULTS IN RUNOFF, OR ANY QUICK SNOW MELT RUNOFF EVENT. ALL INSPECTIONS ARE TO BE DOCUMENTED IN A WRITTEN LOG AND SHALL INCLUDE (AS A MINIMUM) THE DATE OF INSPECTION, ANY INCIDENCES OF NON-COMPLIANCE, SIGNED CERTIFICATION THAT THE SITE IS IN COMPLIANCE WITH THE SWMP, AND ANY NOTES, DRAWINGS, MAPS, ETC. PERTAINING TO REPAIRS. COPIES OF ALL DOCUMENTATION SHALL BE DISTRIBUTED TO OWNER (AND OTHER AUTHORITIES HAVING JURISDICTION UPON REQUEST) ON A REGULAR BASIS AND AT A MINIMUM OF SEVEN (7) DAY INTERVALS.
- SILT FENCING SHALL BE CHECKED FOR UNDERMINING AND BYPASS AND REPAIRED OR EXPANDED AS NEEDED.
- SEDIMENT SHALL BE REMOVED FROM INLET FILTERS AND SILT FENCING BEFORE ONE-HALF OF THE DESIGN DEPTH HAS BEEN REACHED.
- SEDIMENT IN THE PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
- TEMPORARY VEGETATION OR BARE SOIL AREAS SHALL BE CHECKED REGULARLY AND SAID AREAS THAT ARE DAMAGED OR LOST SHALL BE RESEDED.
- ONCE STABILIZATION HAS OCCURRED, THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL INSPECT ALL BMPS EVERY FOURTEEN (14) DAYS AT A MINIMUM AND AFTER SIGNIFICANT PRECIPITATION OR SNOWMELT EVENTS.
- INSTALLATIONS AND MODIFICATIONS AS REQUIRED BY THE COMMUNITY WILL BE IMPLEMENTED WITHIN 48 HOURS OF NOTIFICATION.
- CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND CITY.  
9.FINAL STABILIZATION AND LONG-TERM STORM WATER QUALITY: FINAL STABILIZATION IS DEFINED WHEN ALL SOIL DISTURBED AREAS AND ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND UNIFORM VEGETATIVE COVER HAVE BEEN ESTABLISHED WITH THE DENSITY OF AT LEAST 70% OF THE PRE-DISTURBANCE LEVELS OR EQUIVALENT PERMANENT, AND PHYSICAL EROSION METHODS HAVE BEEN EMPLOYED. FINAL STABILIZATION WILL BE ACHIEVED USING NATIVE SEEDING, SOD, PERMANENT BMPS, AND OTHER METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL STABILIZATION REGARDLESS OF ACCEPTANCE BY OWNER OF THE CONTRACTOR ITEMS.

STRUCTURAL BMP'S:

- VEHICLE TRACKING CONTROL ("VTC"): A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT THE ENTRANCE TO THE SITE AS CONSTRUCTION ACTIVITIES PROGRESS. THE CONSTRUCTION ACCESS AND PARKING WILL BE GRADED AND COVERED WITH CRUSHED STONE BASE COURSE DURING CONSTRUCTION. THE VTC WILL BE RELOCATED AS NEEDED TO FACILITATE CONSTRUCTION. ROUTINE INSPECTION AND MAINTENANCE WILL BE REQUIRED TO AID IN THE EFFECTIVENESS OF THE BMP AND LIMIT OFF-SITE MIGRATION OF SEDIMENT.
- SILT FENCING ("SF"): SILT FENCING SHALL BE INSTALLED WITH RESPECT TO PROPOSED DRAINAGE PATTERNS. SF SHALL BE CONSTRUCTED ALONG THE PORTIONS OF THE SITE AS SHOWN ON THE PLAN ON THE DOWNHILL PORTIONS OF THE SITE AND ALONG ANY DRAINAGE AREAS SUBJECT (OR POTENTIALLY SUBJECT) TO EROSION. THE SF SHALL BE INSTALLED AT THE DOWNHILL SIDE OF ALL EXISTING SLOPES ACROSS THE SITE AND AT ALL POINT DISCHARGE AREAS WHETHER SHOWN OF NOT. SF MUST AND SHALL BE INSPECTED AND MAINTAINED PER REGULATIONS AND AS NEEDED THROUGHOUT THE CONSTRUCTION PROCESS TO AID WITH THE EFFECTIVENESS OF THIS BMP AND LIMIT THE PROPENSITY OF OFF-SITE SEDIMENT MIGRATION. COLLECTED SEDIMENT SHALL BE REMOVED AS REQUIRED TO ENSURE THE INTEGRITY OF THE BMP. THE TEMPORARY SF SHALL REMAIN IN PLACE WITH REQUIRED INSPECTION AND MAINTENANCE THEREOF UNTIL THE STORM WATER STRUCTURES ARE COMPLETE AND THE AREA HAS BE STABILIZED BY EVIDENT OF VEGETATIVE GROUND COVER BEING ESTABLISHED. THE CONTRACTOR IS TO PROVIDE ADDITION SF AS NEEDED AND WITHOUT COST TO THE OWNER TO MAINTAIN THE BASIS OF INTENT OF THE SF WHETHER OR NOT IT IS SHOWN ON THE DRAWINGS.
- INLET PROTECTION ("IP"): THE INLET PROTECTION WILL BE INSTALLED AS THE STORM SEWER STRUCTURES ARE CONSTRUCTED. EACH INLET ON THE PROPOSED STORM SEWER SYSTEM WILL HAVE A TEMPORARY INLET SEDIMENT TRAP CONSTRUCTED IN SUCH A MANNER THAT IS CIRCUMSCRIBES THE INLET. IN PAVED AND NON-PAVED AREAS, INCLUDING GRAVEL IMPROVED AREAS, THIS TRAP IS TO CONSIST OF WIRE MESH ROCK SOCKS TO ACT AS A FILTER OF STORM WATER RUNOFF AND TO ALLOW ANY SILT TO SETTLE OUT. IP PROTECTION SHALL AND MUST BE INSPECTED AND MAINTAINED PER REGULATIONS AND AS NEEDED FOR THE DURATION OF THE CONSTRUCTION PROCESS TO AID WITH THE EFFECTIVENESS OF THIS BMP AND TO LIMIT THE PROPENSITY OF OFF-SITE SEDIMENT MIGRATION. ALL COLLECTED SEDIMENT SHALL BE PROPERLY REMOVED AS REQUIRED BY THE CONTRACTOR.
- OUTLET PROTECTION ("OP"): THE STORM SEWER OUTLETS SHALL BE PROTECTED WITH RIPRAP. PLACING RIPRAP AT PIPE OUTFALLS REDUCE IS DESIGNED TO REDUCE THE EXIT VELOCITY AND REDUCE SOURING EFFECTS OF THE STORM WATER DISCHARGE. THE RIPRAP SHALL BE LEFT IN PLACE AS PART OF THE PERMANENT STORM WATER MANAGEMENT AND STABILIZATION PLAN.
- OVER LOT GRADING MEASURES ("OGM"): ALL OPEN AREAS INCLUDING STOCKPILES SHALL BE TREATED WITHIN FOURTEEN (14) DAYS OF COMPLETION OF OVER-LOT GRADING. ALL OVER-LOT GRADING IN THE NON-IRRIGATED AREAS SHALL HAVE THE SURFACE ROUGHENED AND SHALL BE PERMANENTLY LANDSCAPED OR TEMPORARY SEEDED UNTIL THE PLANED FINAL INSTALLATIONS ARE COMPLETED. AT THE COMPLETION OF THE MASS GRADING, ALL EXPOSED SOIL AREAS SHALL HAVE THE SURFACE ROUGHENED AND PLANTED WITH A RE-VEGETATION SEED MIX APPROPRIATE FOR THE AREA OR A MIX AS DIRECTED BY THE COUNTY OR CITY. VEGETATION IS TO BE MAINTAINED THROUGH THE CONSTRUCTION PERIOD AND UNTIL SAID VEGETATION BECOMES ESTABLISHED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, THIS MAY INCLUDE, BUT NOT LIMITED TO RE-SEEDING AS REQUIRED TO ENSURE ADEQUATE RE-VEGETATION DENSITY, MAINTAINING AND CLEANING UP ANY EROSION ISSUES, ETC. AREAS THAT WILL RECEIVE FINAL LANDSCAPING, THE CONTRACTOR ONLY NEEDS TO MAINTAIN UNTIL FINAL LANDSCAPING IS INSTALLED. ALTERNATIVELY, ROUGH-CUT DRIVEWAYS OR PROPOSED PAVED AREAS ARE TO BE COVERED WITH A LAYER OF AGGREGATE, ROAD BASE OR ASPHALT PAVING.
- DUST CONTROL MEASURES ("DCM"): ALL DISTURBED AREAS (REGARDLESS AS TO THE LIMITS OF SAID DISTURBED AREA) THAT ARE NOT YET READY TO BE SEEDED, LANDSCAPED, PAVED, OR OTHERWISE STABILIZED SHALL BE WATERED, OR RIPPED AS NECESSARY TO PRECLUDE VISIBLE DUST EMISSIONS.
- PHASE MEASURES ("PM"): PM'S ARE DEFINED AS ITEMS THAT ARE SCHEDULED TO BE IMPLEMENTED ACCORDING TO THE CONSTRUCTION SCHEDULE. AS WORK PROGRESS, IMPLEMENTATION OF INDIVIDUAL BMPS IS TO COINCIDE WITH THE CONSTRUCTION AND ORCHESTRATED AS APPROPRIATE TO ENSURE PROPER IMPLEMENTATION OF BMPS, THEREBY MINIMIZING THE EXPOSURE ARE UNPROTECTED AREAS. SF, IP (EXISTING INLETS), AND GRAVELING OF THE CONSTRUCTION ENTRANCE SHALL BE PERFORMED PRIOR TO THE START OF ANY GRADING. ADDITIONAL IP WILL BE INSTALLED AS THE STORM SEWER STRUCTURES ARE CONSTRUCTED. THE RIPRAP PROTECTION SHALL BE INSTALLED AS THE STORM SEWER OUTFALLS OR CULVERTS ARE CONSTRUCTED. THE STRUCTURAL BMPS THAT DO NOT BECOME PART OF THE PERMANENT STORM WATER MANAGEMENT PLAN ARE TO BE REMOVED, AS THE PAVING, LANDSCAPING, AND OTHER PERMANENT GROUND COVER INSTALLATIONS ARE COMPLETED AND ESTABLISHED. WITH RESPECT TO OVER-LOT SEEDING, ESTABLISHMENT OF SUCH RE-VEGETATION MAY BE 12 MONTHS OF LONGER. FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING THE BEST AVAILABLE CONTROL TECHNOLOGY AS DEFINED BY THE CDPHE AT THE TIME OF GRADING. THE GRAVELING IS TO BE MAINTAINED AND EXTENDED CONSTRUCTION PROGRESSES ESPECIALLY AROUND THE BUILDING SITE. THE STRUCTURAL BMPS ARE TO BE REMOVED, AS THE PERMANENT LANDSCAPING INSTALLATIONS ARE COMPLETED. NOTE THE EROSION AND SEDIMENT CONTROL PLAN MAY BE MODIFIED BY THE CONTRACTOR OR OWNER'S ENGINEER OR ITS AUTHORIZED REPRESENTATIVE AS FIELD CONDITIONS WARRANT.
- SEEDING & MULCHING: ALL SEEDS FURNISHED SHALL BE FREE FROM NOXIOUS SEEDS SUCH AS RUSSIAN OR CANADIAN THISTLE, COURSE FESCUE, EUROPEAN BINDWEED, JOHNSON GRASS, KNAWEED, LEAFY SURGE, OTHER SPECIES AS DEFINED BY THE LOCAL JURISDICTION. REFER TO COLORADO'S WEED LIST WEBSITE AT WWW.CWMA.ORG/NXWDID.HTM. THE SEED MUST BE FRESH, WITHOUT MOLD, AND OF HIGH QUALITY. THE COUNTY OR CITY MAY HAVE A PREFERRED SEED MIX, IN WHICH CASE THAT MIX SHALL BE USED WITHOUT EXCEPTIONS TO THE NEED TO ENSURE THE MIX IS VOID OF IDENTIFIED NOXIOUS WEEDS AS NOTED ABOVE. THE FORMULA USED TO DETERMINE THE QUALITY OF THE PURE LIVE SEED ("PLS") SHALL BE ("POUNDS OF SEED") X ("PURITY") X (GERMINATION) = POUNDS OF PURE LIVE SEED OR PLS. SEEDING RECOMMENDATIONS ARE AS NOTED, BUT MAY BE MODIFIED WITH THE OWNER'S APPROVAL TO MAKE THE BEST USE OF EXISTING CLEARINGS AND GRUBBINGS. ALL SEEDS SHALL BE DRILLED, BROADCASTED OR HYDRO-SEEDED. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED IF PERMANENT VEGETATION IS NOT IMMEDIATELY INSTALLED. AFTER SEEDING HAS BEEN COMPLETED, STRAW AT A RATE OF 4,000 LB PER ACRE SHALL BE APPLIED UNIFORMLY (CLEAN STRAW), CRIMPED IN WITH A CRIMPER OR OTHER APPROVED EQUIPMENT OR OTHERWISE ATTACHED. A HYDRAULICALLY APPLIED TRACIFER OR NETTING TO ATTACH MULCH, PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, MAY BE USED WITH THE OWNER'S APPROVAL. THE SEEDED AREA SHALL BE CRIMPED MULCHED AND THE MULCH ATTACHED WITHIN TWENTY-FOUR (24) HOURS AFTER SEEDING. AREAS NOT MULCHED AND ATTACHED WITHIN THE DEFINED TWENTY-FOUR (24) HOUR AFTER SEEDING SHALL BE RE-SEEDED WITH THE SPECIFIED MIX AT THE CONTRACTOR'S EXPENSE, PRIOR TO MULCHING AND ATTACHING. ON STEEP SLOPES OR OTHER SPECIFIED AREAS AS SHOWN HEREIN, WHICH ARE DESIGNATED AS AREAS, PER THE OWNER'S ENGINEER, AS DIFFICULT TO MULCH AND ATTACH BY CONVENTIONAL METHODS; BURLAP OR OTHER BLANKETING MATERIALS SHALL BE USED AND PROPERLY ANCHORED AND SECURED AREAS STEEPER THEN 1:1 SHALL BE PROTECTED WITH APPROVED RECP.
- PERMANENT STABILIZATION MEASURES ("PSM"): RIPRAP FOR STORM DRAIN OUTFALLS AND ROCK CHECK DAMS SHALL BECOME PART OF THE PERMANENT STORM WATER MANAGEMENT PLAN AND WILL NOT BE REMOVED. PERMANENT LANDSCAPING WILL INCLUDE BUT NOT LIMITED TO: SEEDING, INSTALLATION OF SOD OR OTHER VEGETATION COVER TO OPEN AREAS AS SHOWN. NATIVE PERENNIAL SEEDING SHALL BE ESTABLISHED IN NON-IRRIGATED AREAS AND OTHER VEGETATIVE COVER SHALL BE ESTABLISHED IN IRRIGATED OPEN AREAS (IF ANY). ALL PERMANENT STABILIZATION MEASURES WILL BE SPECIFIED HEREIN.

STORM WATER MANAGEMENT CONTROLS:

- NON STRUCTURAL BMPS WILL BE IMPLEMENTED TO THE MAXIMUM EXTENT POSSIBLE. THE UTILIZATION OF NON-STRUCTURAL BMPS WILL BE AN ONGOING PROCESS DIRECTED AT PREVENTING EROSION. THE NON-STRUCTURAL BMPS WILL RECEIVE CONTINUOUS EMPHASIS THROUGHOUT THE CONSTRUCTION PROCESS BECAUSE SAID BMPS WILL AVERT PROBLEMS BEFORE THEY OCCUR AND REDUCE THE PROPENSITY FOR STRUCTURAL BMPS. NON-STRUCTURAL BMPS WILL CONSIST PRIMARILY OF THE PRESERVATION OF EXISTING MATURE VEGETATION AND TREES, PLANNING, AND SCHEDULING OF CONSTRUCTION ACTIVITIES AIMED AT ACHIEVING A GOAL OF MINIMIZING EROSION. FURTHERMORE, CONSTRUCTION PERSONNEL WILL BE INSTRUCTED AND SUPERVISED IN CONSTRUCTION METHODS CONSISTENT WITH EROSION PREVENTION PRACTICES.
- PLANNED STRUCTURAL BMPS FOR EROSION AND SEDIMENT CONTROL ARE SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN. IMPLEMENTING THESE METHODS SHOULD MINIMIZE NUISANCE SILT AND SEDIMENTATION EXITING THE SITE AND PREVENT CLOGGING EXISTING DOWNSTREAM STORM WATER CONVEYANCE SYSTEMS.
- APPLICATION OF THESE BMPS FOR STORM WATER MANAGEMENT IS FOR THE CONSTRUCTION PERIODS AND IS CONSIDERED TEMPORARY IN NATURE. POST-DEVELOPMENT STORM WATER MANAGEMENT IS PROVIDED THROUGH VEGETATED LANDSCAPED AREAS, GRASSED SWALES, RIPRAP PROTECTION AND THE STORM WATER COLLECTION SYSTEM.
- OTHER POTENTIAL POLLUTION SOURCES SUCH AS VEHICLE FUELING, STORAGE, FERTILIZERS OR CHEMICALS, VEHICLE WASHING, WASTE DISPOSAL, HAUL-ROADS, LOADING AND UNLOADING AREAS, MASONRY AND CONCRETE WASHOUT, ETC. ARE LOCATED WITHIN THE STABILIZED CONSTRUCTION AREAS AS SHOWN ON THE PLANS. NON-STORM WATER COMPONENTS OF THE DISCHARGE, SUCH AS SPRINGS MAY BE FOUND ON THE SITE. IF CONSTRUCTION DEWATERING OCCURS ON SITE, A SEPARATE GROUND WATER DISCHARGE PERMIT WILL BE REQUIRED AND ADHERED TO.
- SIGNIFICANT OFF-SITE RUNOFF FLOWS ARE NOT ANTICIPATED WITH THIS PROJECT. HISTORIC ON-SITE FLOWS ARE GENERALLY CONVEYED TO THE SOUTH AND TO THE EAST. DEVELOPED ON-SITE FLOWS WILL BE CONTAINED WITHIN THE PROPOSED STORM WATER NETWORK FOR CONVEYANCE TO THE ONSITE DETENTION AND WATER QUALITY FACILITIES. STORM WATER IS DISCHARGED FROM THIS SITE TO THE NATURAL MAJOR DRAINAGE WAY WITH THE ULTIMATE OUTFALL TO THE NORTH SAINT CHARLES RIVER.

STORM WATER MANAGEMENT PLAN (SWMP)

GENERAL REQUIREMENTS:

- THE STORM WATER MANAGEMENT PLANT IS TO BE RETAINED AND MAINTAINED ON-SITE ALONG WITH ANY OTHER EROSION CONTROL DOCUMENTATION INCLUDING BUT NOT LIMITED TO UPDATED PLANS, MAINTENANCE RECORDS, AND REPORTS ALONG WITH THE REFERENCED LANDSCAPE PLAN. A SWMP ADMINISTRATOR WILL BE DESIGNATED BY THE CONTRACTOR AND IS RESPONSIBLE FOR DEVELOPING, IMPLEMENTING, MAINTAINING, AND REVISING THE SWMP. THE SWMP ADMINISTRATOR IS THE CONTACT FOR ALL SWMP-RELATED ISSUES AND IS RESPONSIBLE FOR ITS ACCURACY, COMPLETENESS, AND IMPLEMENTATION. THE FOLLOWING PERSON HAS BEEN DESIGNATED AS THE SWMP ADMINISTRATOR FOR THIS PROJECT:

NAME: \_\_\_\_\_  
TITLE: \_\_\_\_\_  
CONTACT INFO: \_\_\_\_\_

- GREEN MOUNTAIN/CHIPITA PARK FIRE PROTECTION DISTRICT ADMINISTRATIVE AND STORAGE FACILITY, THE "PROJECT" IS LOCATED WITHIN THE COMMUNITY OF GREEN MOUNTAIN FALLS, COLORADO, AT APPROXIMATELY LATITUDE AND LONGITUDE. THE PROJECT GENERALLY CONSISTS OF SITE GRADING, LINEAR IMPROVEMENTS FOR A WATER SERVICE, ROAD IMPROVEMENTS SEPTIC SYSTEM, STORM WATER SEWER, STORM DRAINAGE SYSTEM, CONSTRUCTION OF AN ACCESS DRIVEWAY, AND CONSTRUCTION OF A FIRE STATION. THE ANTICIPATED DISTURBED AREA IS ESTIMATED AT APPROXIMATELY 2 ACRES. THE TOTAL SITE AREA IS 2 ACRES. NO AREA GREATER THAN 40 ACRES SHALL BE DISTURBED AT ANY GIVEN TIME. NO CONSTRUCTION ACTIVITIES SHALL OCCUR OFF-SITE OR OUTSIDE OF THE CONSTRUCTION LIMITS SHOWN ON THE PLANS. THE ESTIMATED SEQUENCE OF CONSTRUCTION IS AS FOLLOWS:

PHASE	ESTIMATED	ACTUAL
CONSTRUCTION START		
SITE RESTORATION		
- THE PRESENT SITE CONSISTS OF THE UNDEVELOPED LAND AND IS APPROXIMATELY 90% COVERED WITH VEGETATIVE GROUND COVER, I.E., NATIVE GRASSES. EXISTING SOIL CONSISTS OF SOIL TYPE(S) CL, SC, SP-SC AND CH ACCORDING TO NRCS STANDARDS. THE ESTIMATED HISTORICAL AND DEVELOPED 100 YEAR RUNOFF COEFFICIENTS ARE NOT EXPECTED TO BE SIGNIFICANTLY ALTERED WITH THIS PROJECT. SEE SUBSURFACE GEOTECH REPORT.
- OTHER POTENTIAL POLLUTION SOURCES SUCH AS VEHICLE FUELING, STORAGE, FERTILIZERS OR CHEMICALS, VEHICLE WASHING, WASTE DISPOSAL, HAUL-ROADS, LOADING AND UNLOADING AREAS, MASONRY AND CONCRETE WASHOUT, ETC. ARE LOCATED WITHIN THE STABILIZED CONSTRUCTION AREAS AS SHOWN ON THE PLANS. IF CONSTRUCTION DEWATERING OCCURS ON SITE, A SEPARATE GROUND WATER DISCHARGE PERMIT WILL BE REQUIRED AND ADHERED TO.
- SIGNIFICANT OFF-SITE RUNOFF FLOWS ARE NOT ANTICIPATED WITH THIS PROJECT. HISTORIC ON-SITE FLOWS ARE GENERALLY CONVEYED TO THE WEST AND SOUTH AND TO THE EAST AND SOUTH. DEVELOPED ON-SITE FLOWS WILL BE CONTAINED WITHIN THE PROPOSED STORM WATER NETWORK FOR CONVEYANCE TO THE ONSITE DETENTION AND WATER QUALITY FACILITIES.

NOTES:

- THE CONTRACTOR SHALL CLEAR AND GRUB THE PROPOSED AREA OF DISTURBANCE PRIOR TO EXCAVATION. THE PROPOSED AREA OF DISTURBANCE IS APPROXIMATELY 2 ACRES.
- THE SITE GENERALLY CONSISTS OF 2 TO 4 INCHES OF TOPSOIL. THE CONTRACTOR SHALL REMOVE AND STOCKPILE EXISTING TOPSOIL FOR USE WITH NATIVE SEEDING OPERATIONS. APPROXIMATELY 1,950CY OF TOPSOIL EXISTS ONSITE
- CONTACT THE ENGINEER FOR THE GEOTECHNICAL SUBSURFACE REPORT
- SEEDING SHALL CONFORM TO THE LATEST EDITION OF THE DENVER URBAN DRAINAGE DESIGN MANUAL. NATIVE SEED MIX SHALL SATISFY EL PAYO COUNTY AND/OR REGIONAL REQUIREMENTS
- SURFACE ROUGHING SHALL BE PROVIDED PROMPTLY AFTER COMPLETION OF FINISH GRADE, PRIOR TO SEEDING, PRIOR TO RAIN EVENTS AND AS DIRECTED BY THE ENGINEER.
- NO WORK ON COMMENCE IN PUBLIC R.O.W WITH SECURING ALL LOCAL, REGIONAL PERMITS.
- INSTALL SEDIMENT LOGS IN ALL EXISTING NATURAL DRAINAGE SWALES THAT ARE IMPACTED OR COULD BE IMPACTED BY CONSTRUCTION EFFECTS.



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GREEN MOUNTAIN FALLS FIRE DISTRICT  
Fire Station Project Two Carsell Way  
Green Mountain Falls, El Paso County, CO

REVISIONS

- 75% CD SET 30 AUG 2018
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EROSION  
CONTROL  
GENERAL NOTES

C 5.0

90% BID DRAWINGS





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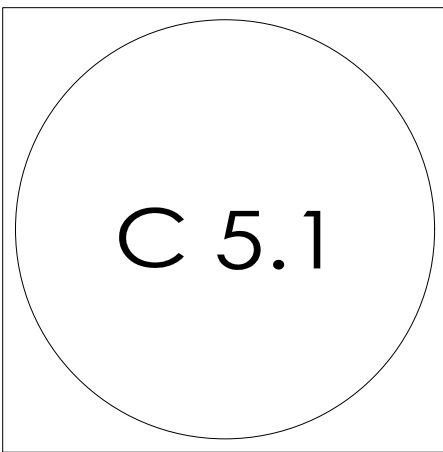
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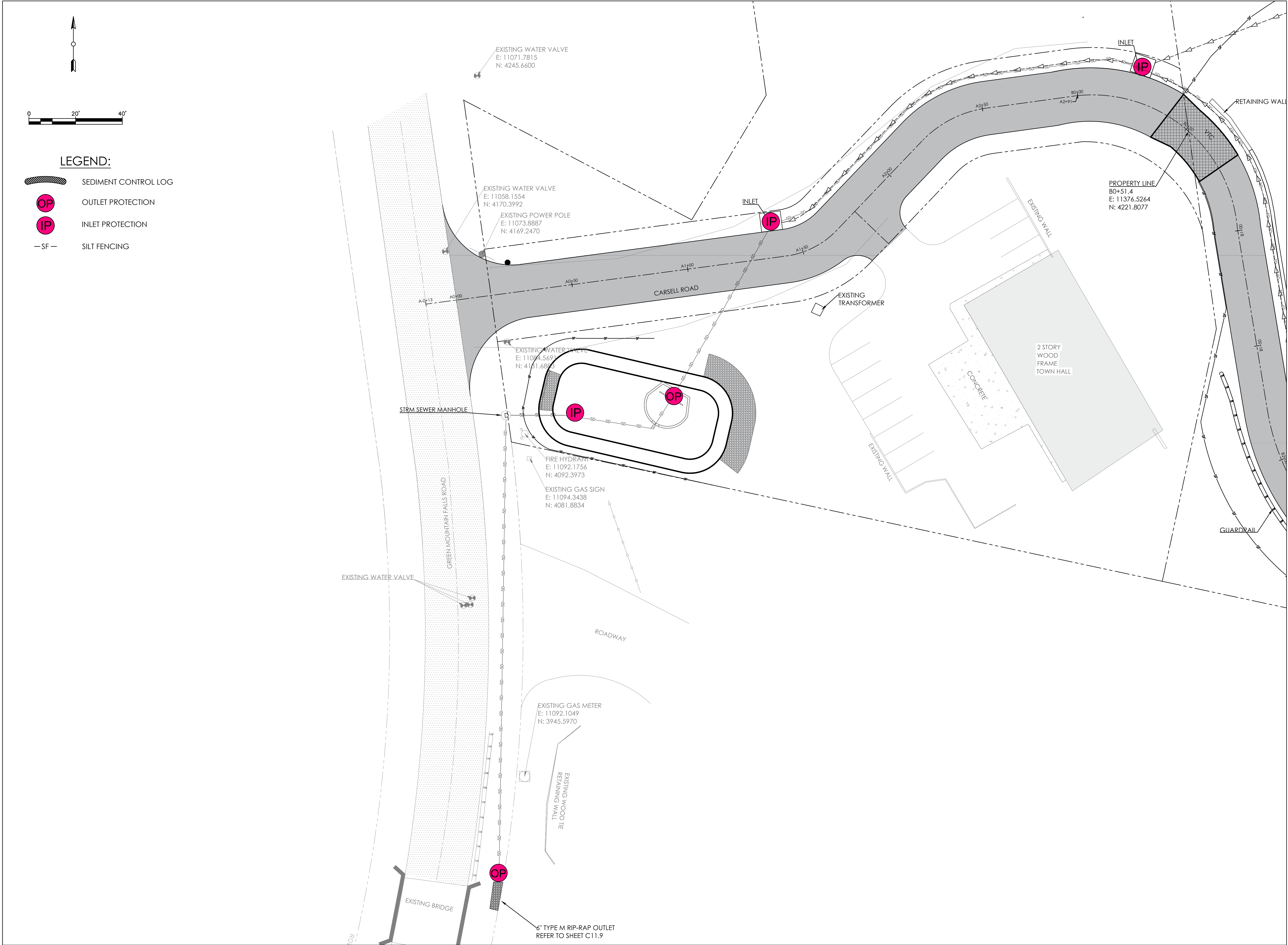


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EROSION  
CONTROL  
PLAN





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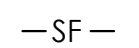


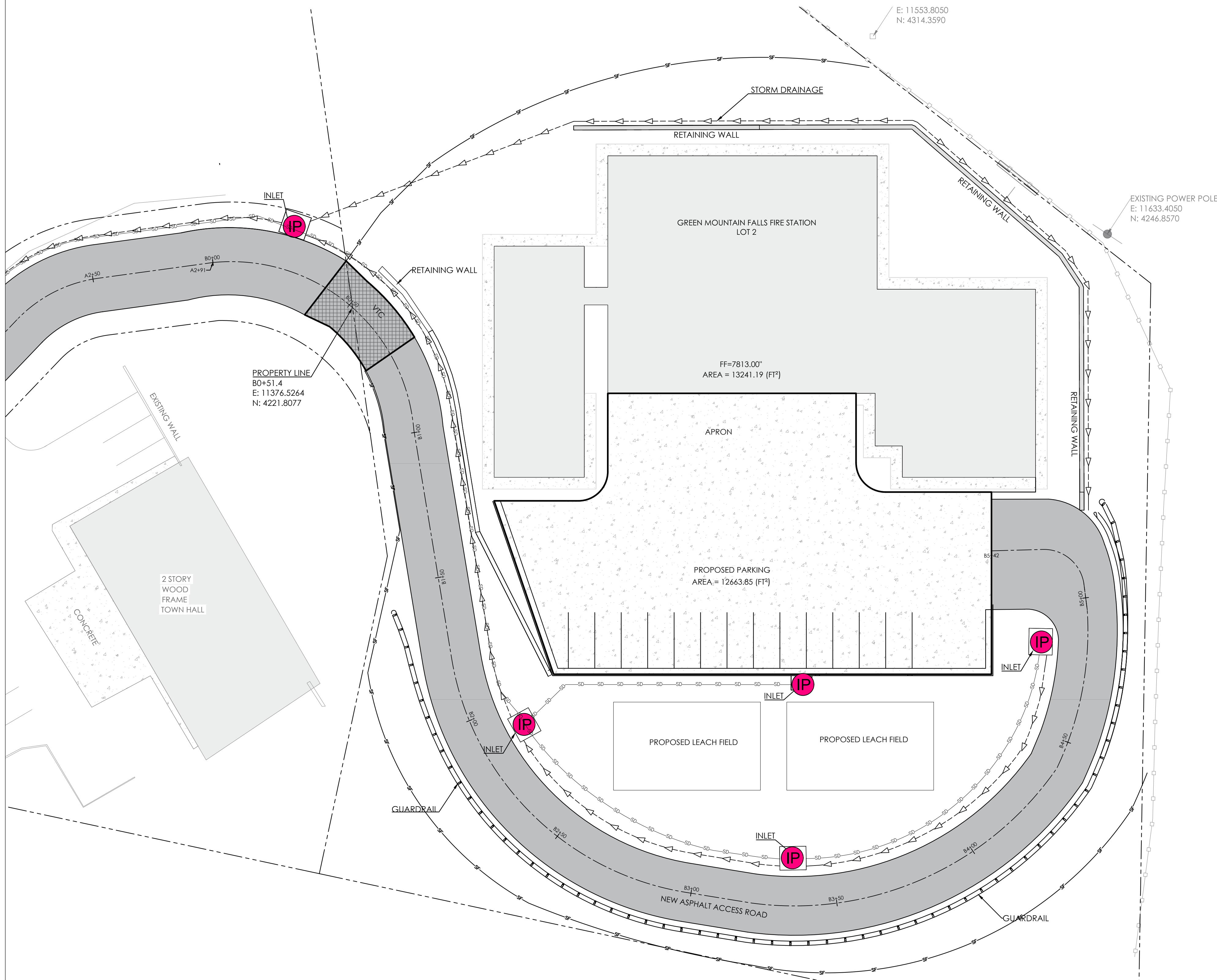
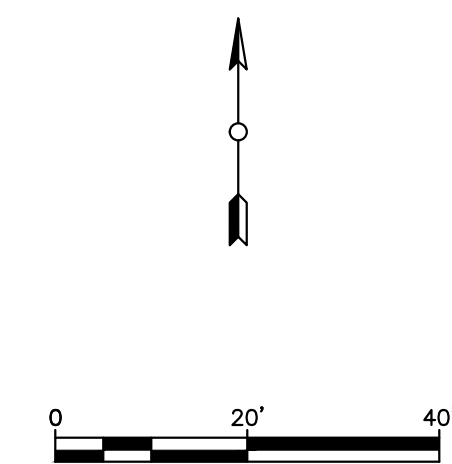
LEGEND:

 SEDIMENT CONTROL LOG

 OUTLET PROTECTION

 INLET PROTECTION

 SILT FENCING

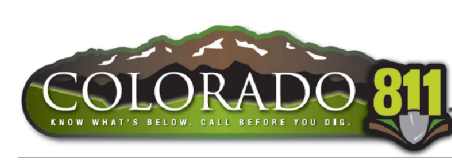


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**GREEN MOUNTAIN FALLS FIRE DISTRICT**  
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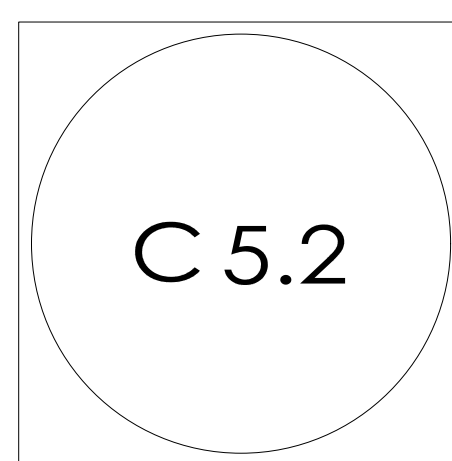
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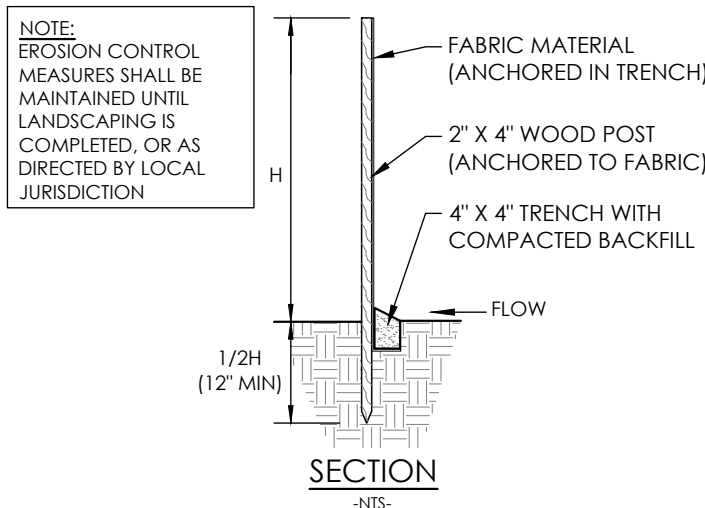
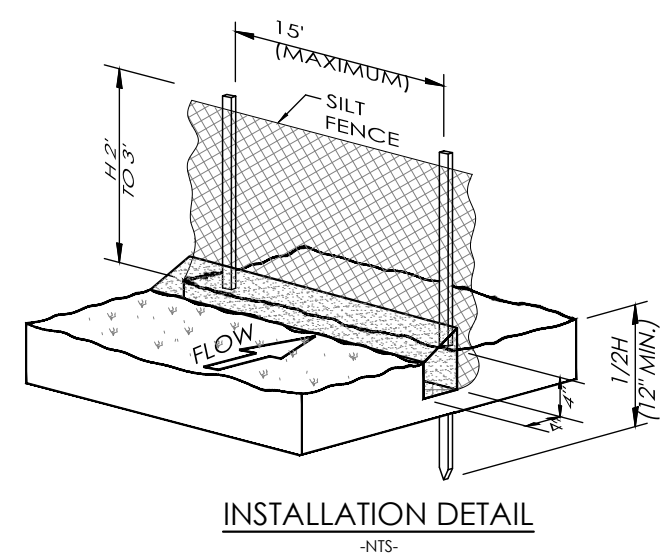
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**EROSION  
CONTROL  
PLAN**



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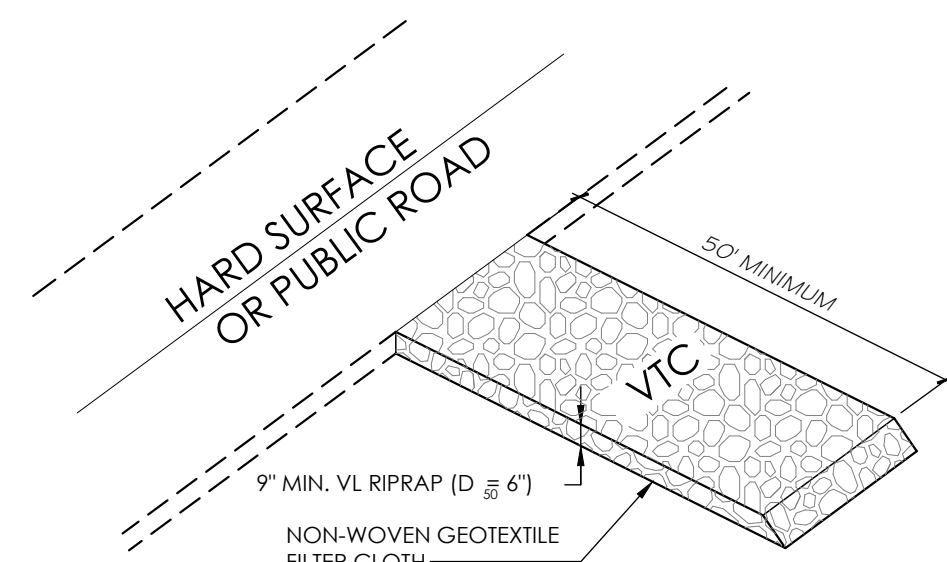




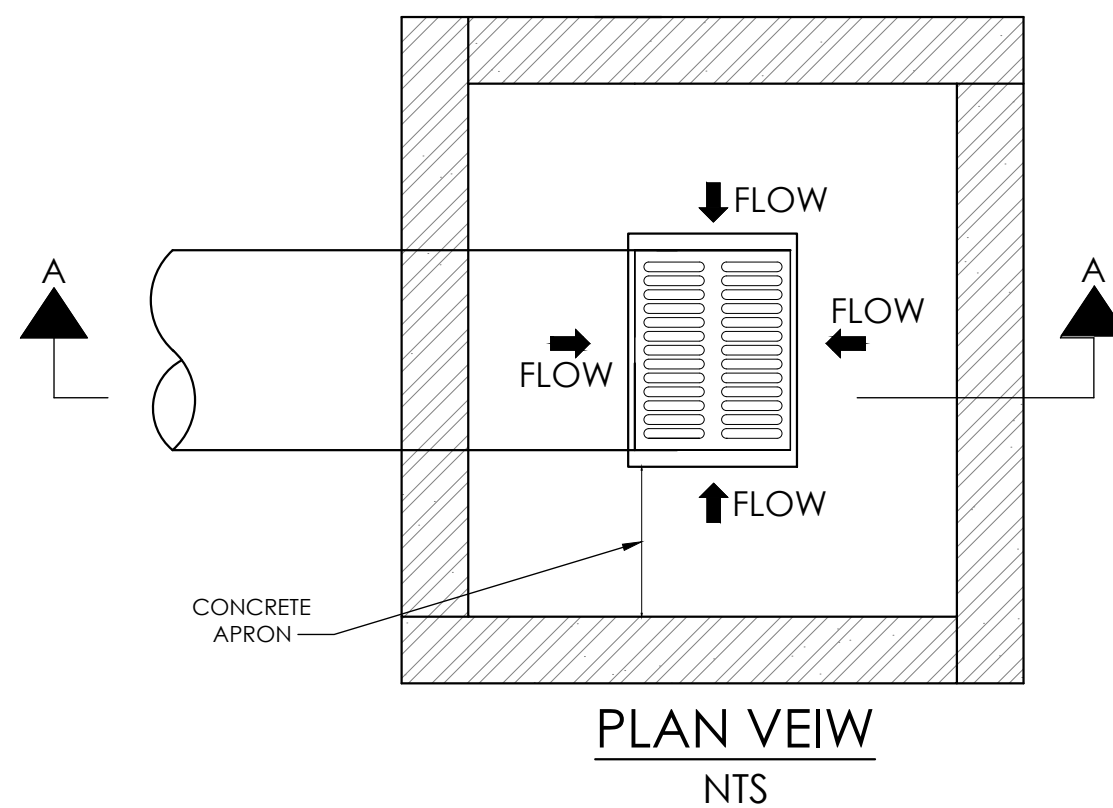
**SILT FENCE DETAIL**  
N.T.S.

**DEFINITION:**  
A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

**PURPOSES:**  
TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.

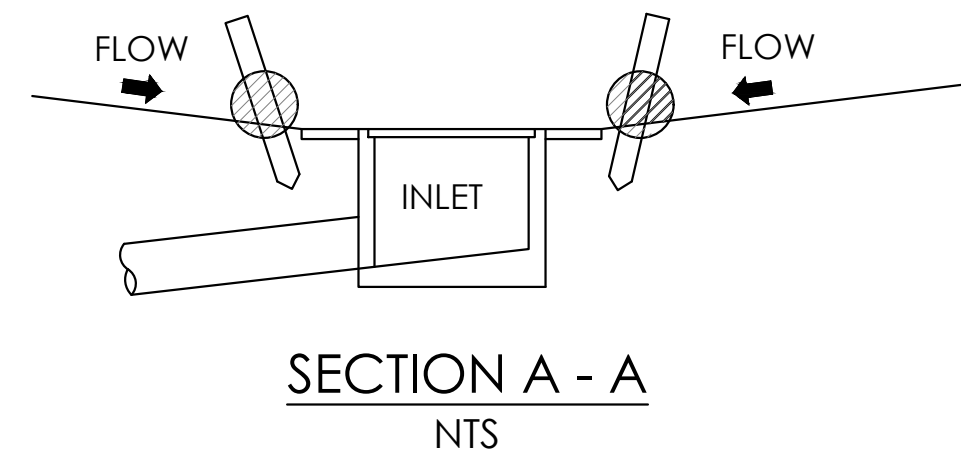


**VEHICLE TRACKING CONTROL DTL**  
N.T.S.



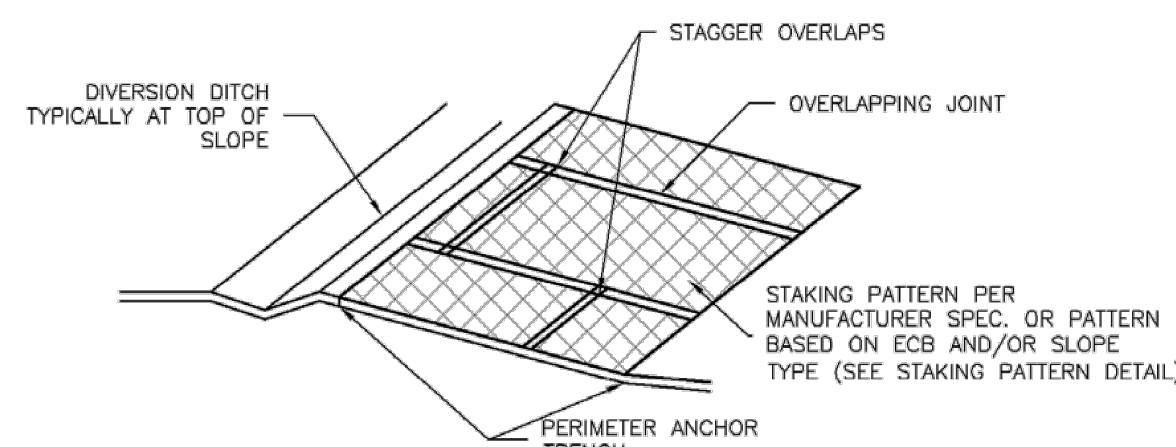
**NOTES:**  
1. LOCATE EROSION LOGS AT THE OUTSIDE EDGE OF THE CONCRETE APRON

**DROP INLET PROTECTION DETAIL** N.T.S.

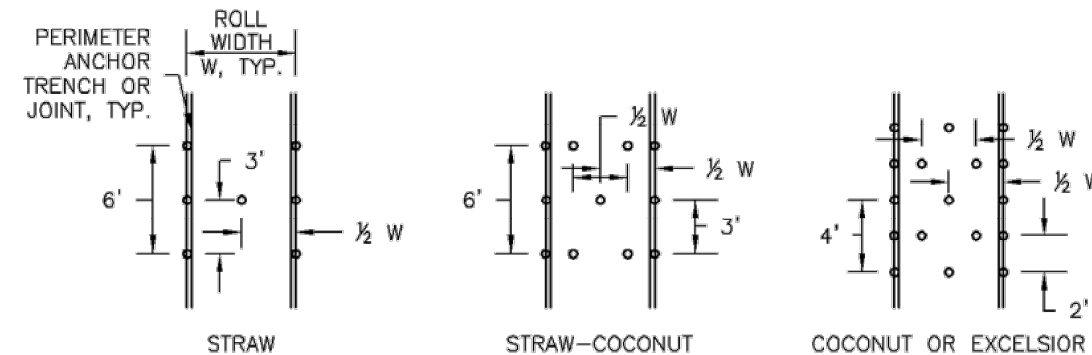


**Rolled Erosion Control Products (RECP)**

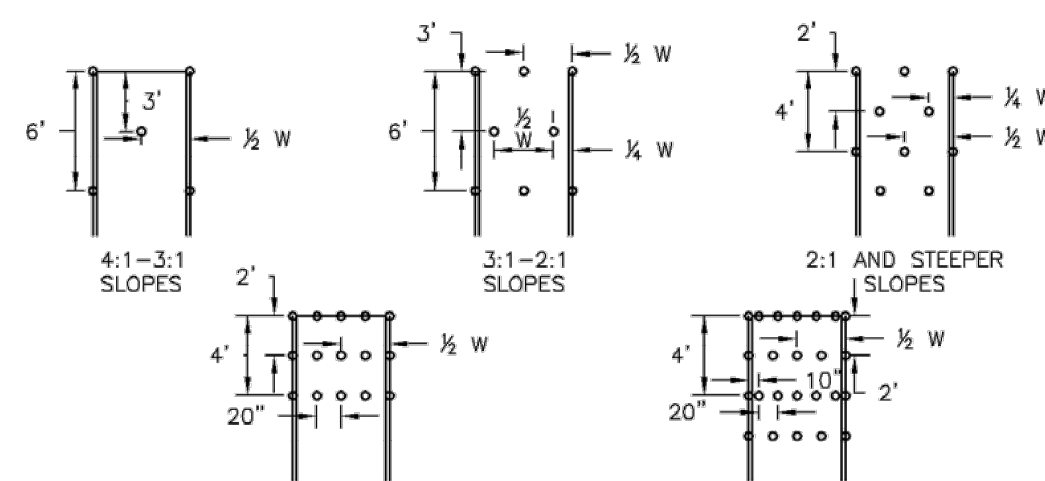
**EC-6**



**ECB-3. OUTSIDE OF DRAINAGEWAY**



**STAKING PATTERNS BY ECB TYPE**



**STAKING PATTERNS BY SLOPE OR CHANNEL TYPE**

November 2010 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 RECP-7

**EC-6**

**Rolled Erosion Control Products (RECP)**

**EROSION CONTROL BLANKET INSTALLATION NOTES**

- SEE PLAN VIEW FOR:  
-LOCATION OF ECB.  
-TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR).  
-AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.
- 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
- IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
- INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.
- OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
- MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
- ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEEDED AND MULCHED.
- DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS				
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**
STRAW*	-	100%	-	DOUBLE/NATURAL
STRAW-COCONUT	30% MIN	70% MAX	-	DOUBLE/NATURAL
COCONUT	100%	-	-	DOUBLE/NATURAL
EXCELSIOR	-	-	100%	DOUBLE/NATURAL

\*STRAW ECBs MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNEL.  
\*\*ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS

RECP-8 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 November 2010

**Rolled Erosion Control Products (RECP)**

**EC-6**

**EROSION CONTROL BLANKET MAINTENANCE NOTES**

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
  - ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER COLORADO, NOT AVAILABLE IN AUTOCAD)

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**GREEN MOUNTAIN FALLS FIRE DISTRICT**  
Fire Station Project Two Carsell Way  
Green Mountain Falls, El Paso County, CO

**REVISIONS**

- 75% CD SET 30 AUG 2018
- 90% BID SET 30 SEP 2018



DATE: 30-SEP-18  
DRAWN BY: H.A  
CHECK BY: T.E.F

**EROSION  
CONTROL  
DETAILS**

**C 5.3**

90% BID DRAWINGS





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GREEN MOUNTAIN FALLS FIRE DISTRICT  
Fire Station Project Two Carsell Way  
Green Mountain Falls, El Paso County, CO

REVISIONS

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2. 90% BID SET 30 SEP 2018

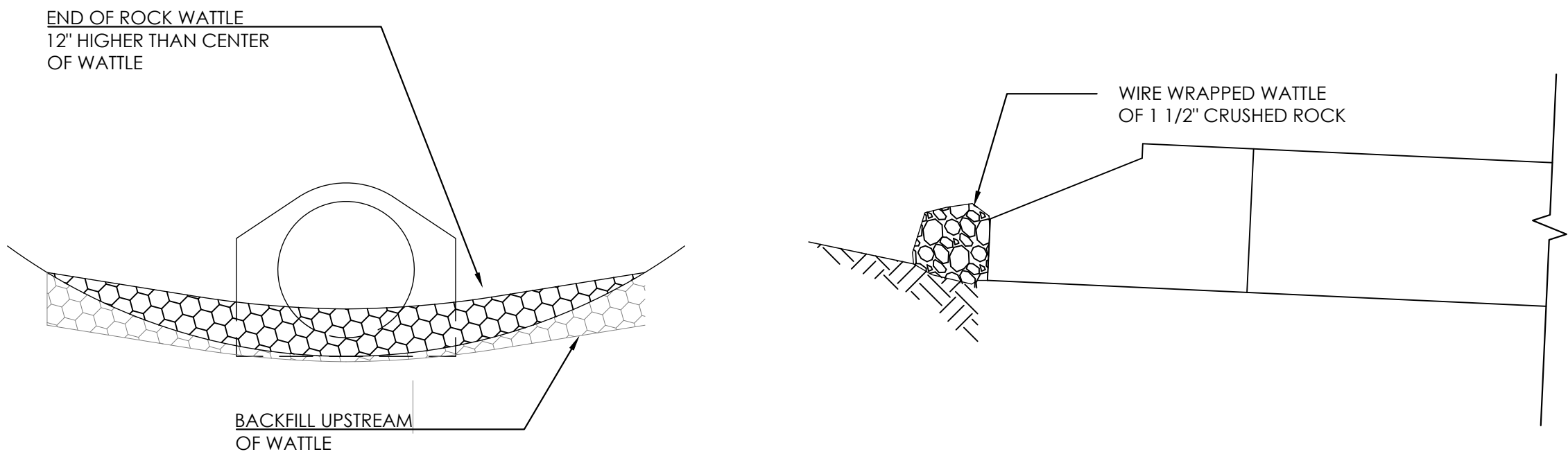


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EROSION  
CONTROL  
DETAILS

C 5.4

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CULVERT INLET PROTECTION

EC-8 Temporary Outlet Protection (TOP)

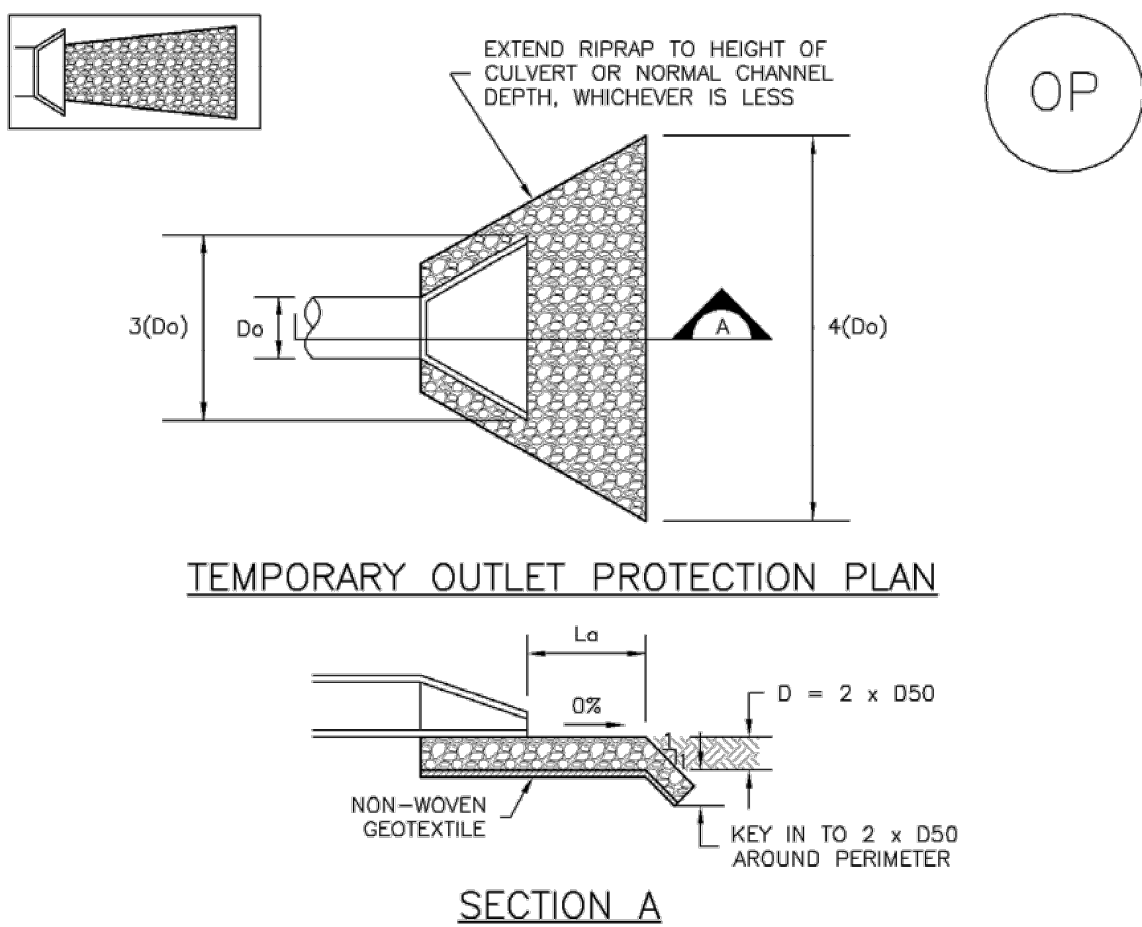
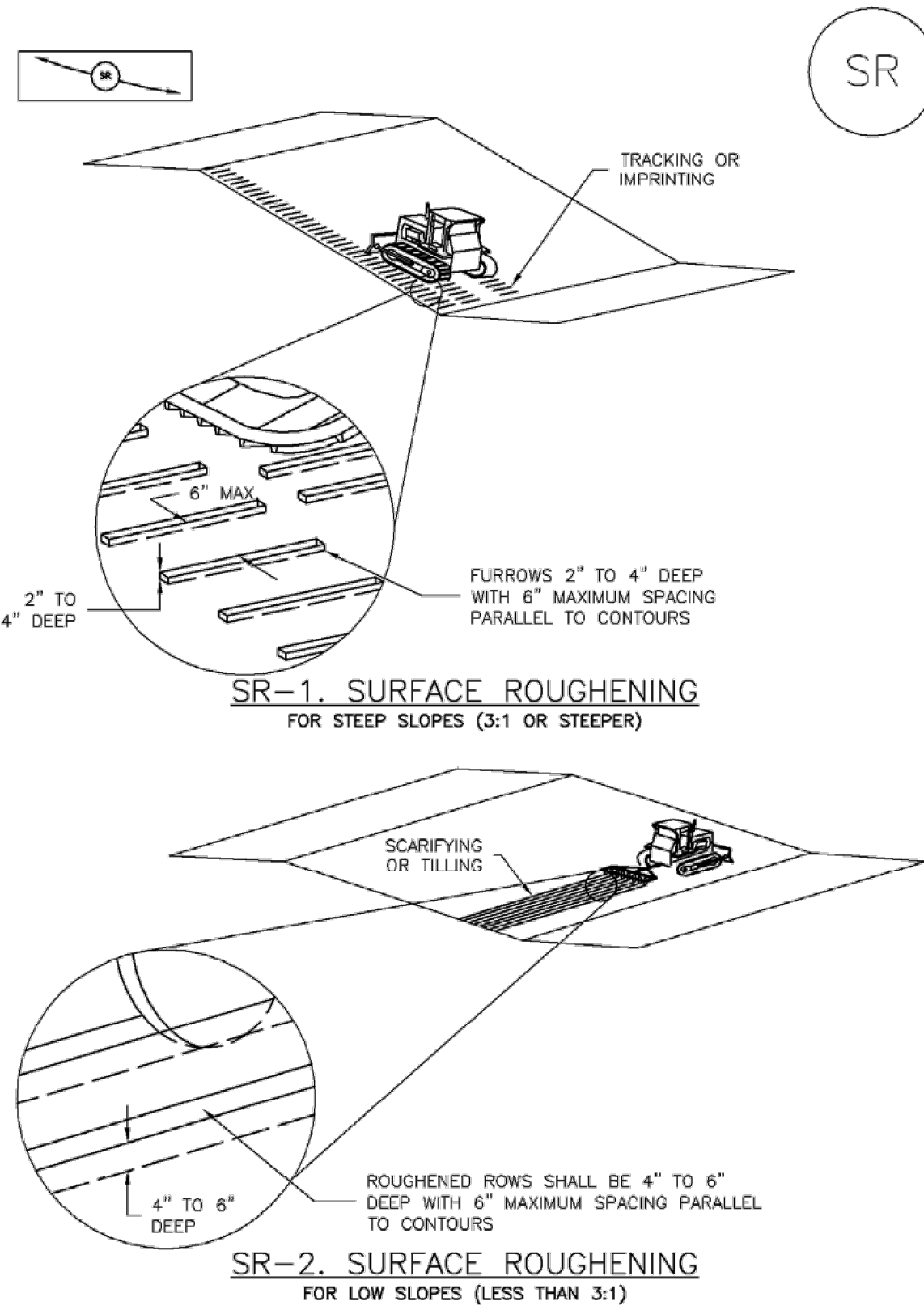


TABLE OP-1. TEMPORARY OUTLET PROTECTION SIZING TABLE			
PIPE DIAMETER, D <sub>50</sub> (INCHES)	DISCHARGE, Q (CFS)	APRON LENGTH, L <sub>d</sub> (FT)	RIPRAP D <sub>50</sub> DIAMETER MIN (INCHES)
8	2.5	5	4
	5	10	6
12	5	10	4
	10	13	6
	10	10	6
	20	16	9
18	30	23	12
	40	26	16
	30	16	9
	40	26	9
24	50	26	12
	60	30	16

OP-1. TEMPORARY OUTLET PROTECTION

TOP-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Surface Roughening (SR) EC-1



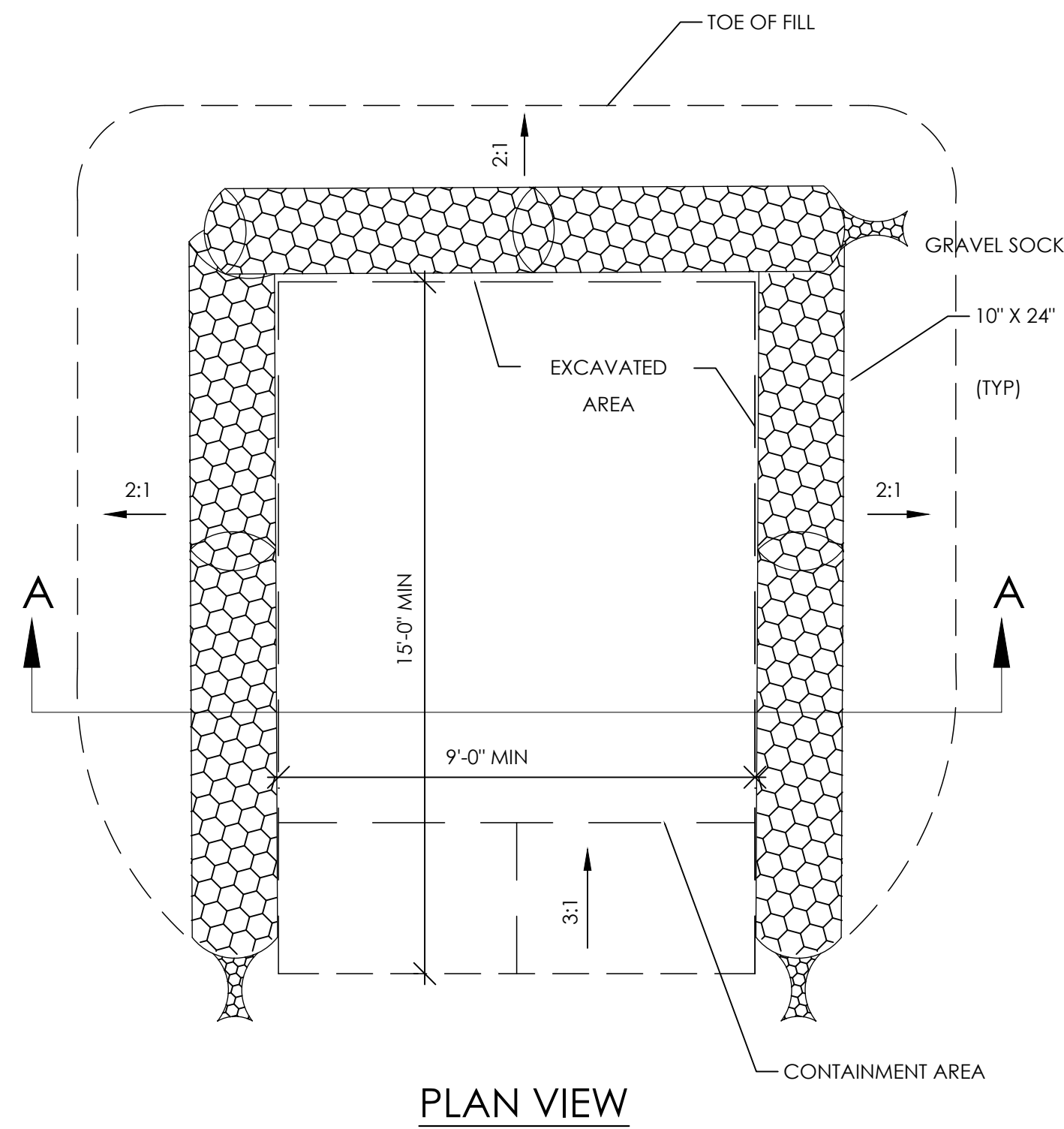
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SR-3

SC-2 Sediment Control Log (SCL)

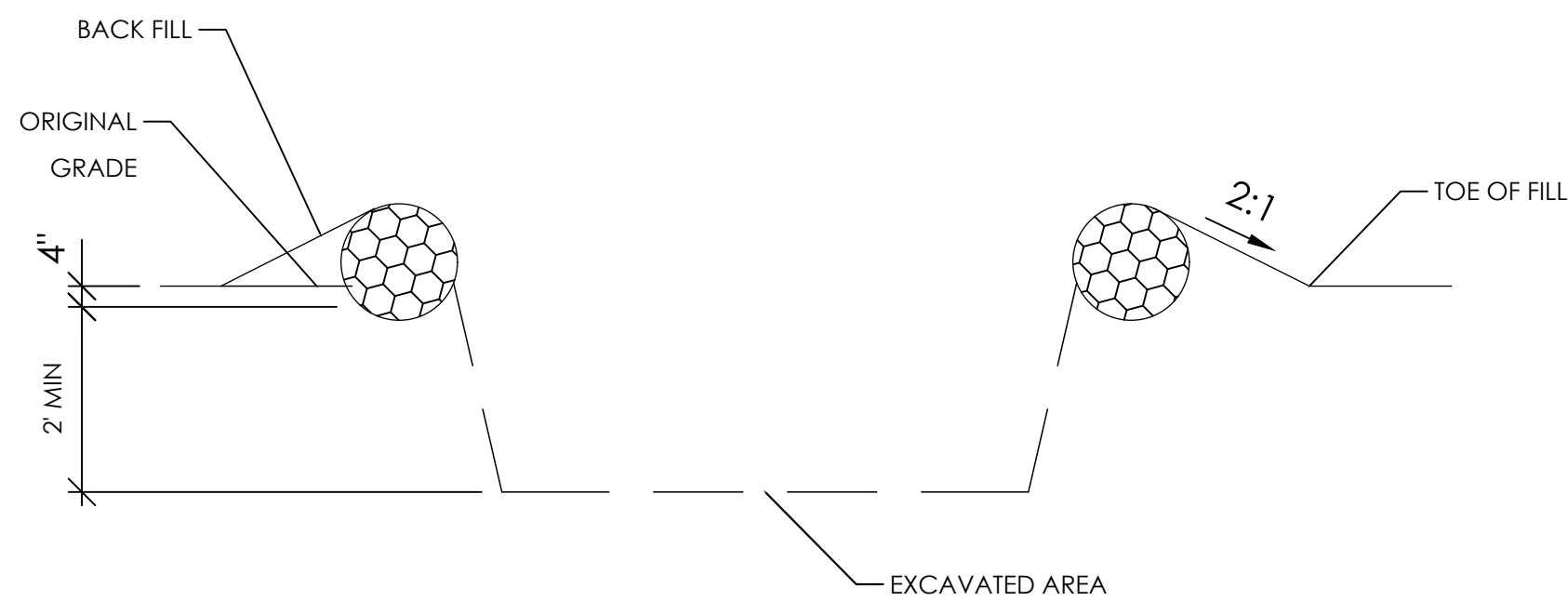
- SEDIMENT CONTROL LOG INSTALLATION NOTES**
- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
  - SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADE/GRADIENT LAND-DISTURBING ACTIVITIES.
  - SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
  - SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
  - IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/2 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING. COMPOST LOGS THAT ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.
  - THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR BLOWN IN PLACE.
  - FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED 10' ON CENTER.
- SEDIMENT CONTROL LOG MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
  - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
  - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
  - SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
  - SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION.COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREA SEEDED. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SCL-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2015



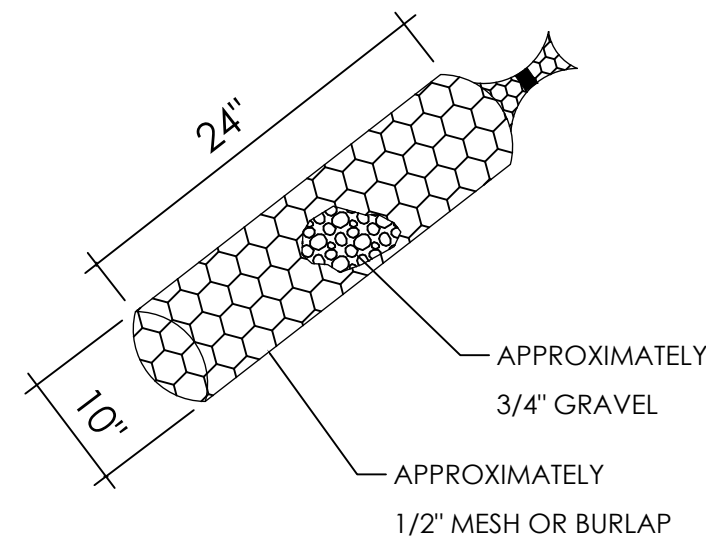


PLAN VIEW



SECTION A-A

CONCRETE WASHOUT FACILITY DETAIL



SOCK TYPE

NOTE:  
EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETED, OR AS DIRECTED BY THE LOCAL JURISDICTION.

## Temporary Outlet Protection (TOP)

EC-8

### TEMPORARY OUTLET PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR:  
-LOCATION OF OUTLET PROTECTION.  
-DIMENSIONS OF OUTLET PROTECTION.
- DETAIL IS INTENDED FOR PIPES WITH SLOPE  $\leq 10\%$ . ADDITIONAL EVALUATION OF RIPRAP SIZING AND OUTLET PROTECTION DIMENSIONS REQUIRED FOR STEEPER SLOPES.
- TEMPORARY OUTLET PROTECTION INFORMATION IS FOR OUTLETS INTENDED TO BE UTILIZED LESS THAN 2 YEARS.

### TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM AURORA, COLORADO AND PREVIOUS VERSION OF VOLUME 3, NOT AVAILABLE IN AUTOCAD)

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TOP-3

EC-1

## Surface Roughening (SR)

### SURFACE ROUGHENING INSTALLATION NOTES

- SEE PLAN VIEW FOR:  
-LOCATION(S) OF SURFACE ROUGHENING.
- SURFACE ROUGHENING SHALL BE PROVIDED PROMPTLY AFTER COMPLETION OF FINISHED GRADING (FOR AREAS NOT RECEIVING TOPSOIL) OR PRIOR TO TOPSOIL PLACEMENT OR ANY FORECASTED RAIN EVENT.
- AREAS WHERE BUILDING FOUNDATIONS, PAVEMENT, OR SOD WILL BE PLACED WITHOUT DELAY IN THE CONSTRUCTION SEQUENCE, SURFACE ROUGHENING IS NOT REQUIRED.
- DISTURBED SURFACES SHALL BE ROUGHENED USING RIPPING OR TILLING EQUIPMENT ON THE CONTOUR OR TRACKING UP AND DOWN A SLOPE USING EQUIPMENT TREADS.
- A FARMING DISK SHALL NOT BE USED FOR SURFACE ROUGHENING.

### SURFACE ROUGHENING MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACE UPON DISCOVERY OF THE FAILURE.
- VEHICLES AND EQUIPMENT SHALL NOT BE DRIVEN OVER AREAS THAT HAVE BEEN SURFACE ROUGHENED.
- IN NON-TURF GRASS FINISHED AREAS, SEEDING AND MULCHING SHALL TAKE PLACE DIRECTLY OVER SURFACE ROUGHENED AREAS WITHOUT FIRST SMOOTHING OUT THE SURFACE.
- IN AREAS NOT SEEDED AND MULCHED AFTER SURFACE ROUGHENING, SURFACES SHALL BE RE-ROUGHENED AS NECESSARY TO MAINTAIN GROOVE DEPTH AND SMOOTH OVER RILL EROSION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

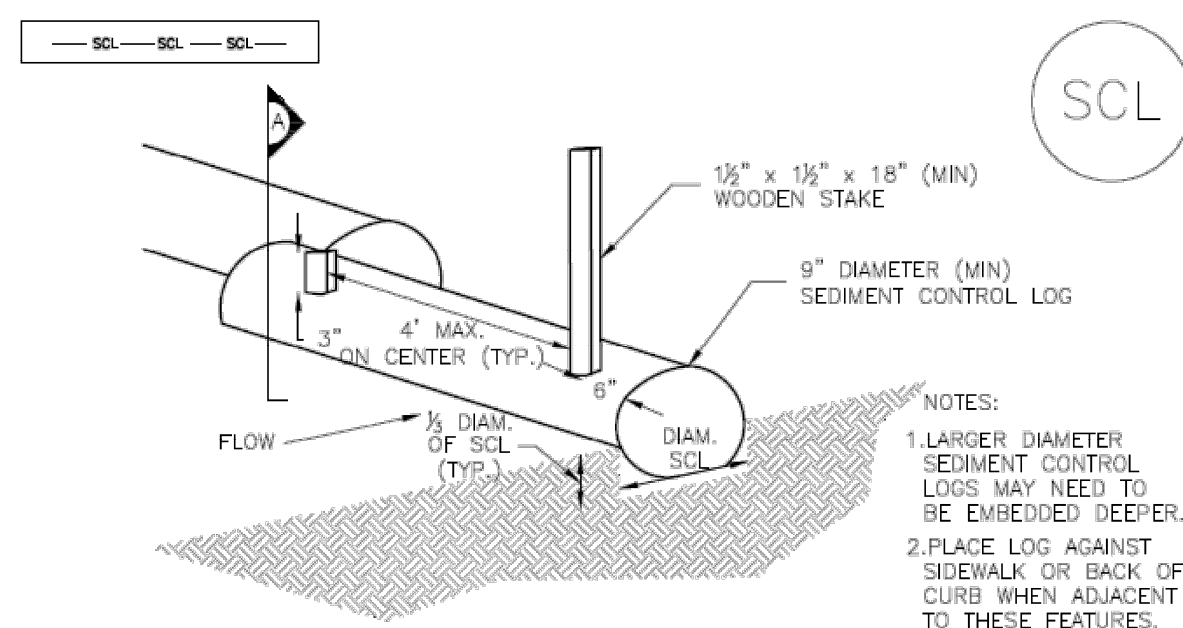
SR-4

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Urban Storm Drainage Criteria Manual Volume 3

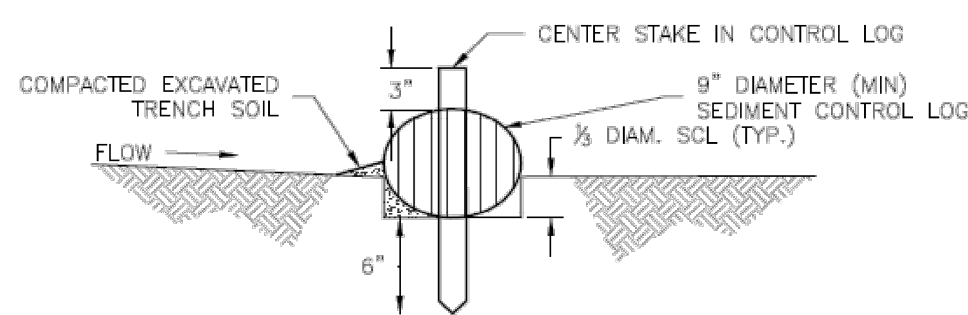
November 2010

## Sediment Control Log (SCL)

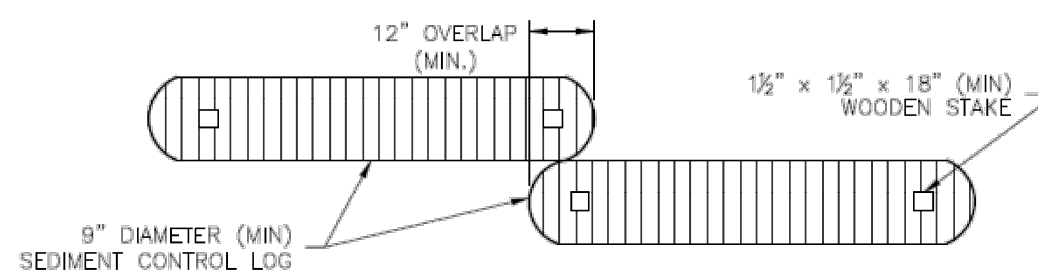
SC-2



TRENCHED SEDIMENT CONTROL LOG



SECTION A  
TRENCHED SEDIMENT CONTROL LOG



LOG JOINTS

SCL-1. TRENCHED SEDIMENT CONTROL LOG

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Urban Drainage and Flood Control District  
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SCL-3

90% BID DRAWINGS



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GREEN MOUNTAIN FALLS FIRE DISTRICT

Fire Station Project Two Carsell Way

Green Mountain Falls, El Paso County, CO

## REVISIONS

- 75% CD SET 30 AUG 2018
- 90% BID SET 30 SEP 2018



DATE: 30-SEP-18  
DRAWN BY: H.A  
CHECK BY: T.E.F

## EROSION CONTROL DETAILS

C 5.5

**DRAINAGE REPORT FOR  
GREEN MOUNTAIN FALLS / CHIPITA PARK FIRE PROTECTION  
DISTRICT**

**CENTRAL FIRE STATION**

**TWO CARSELL WAY, GREEN MOUNTAIN FALLS, COLORADO 80819**

**30 AUGUST 2018**

Prepared By:

F&D International LLC  
1930 Central Ave., Unit #B  
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(P) 303.652.3200  
F&D Project No. 15004

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Existing Conditions	Page 1
Proposed Developed Drainage Plan	Page 1
Conclusions	Page 4
References	Page 5
Appendix A – Vicinity Map	Page A1
Appendix B – Calculations	Page B1
Appendix C – Details	Page C1

## INTRODUCTION

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### GENERAL LOCATION AND DESCRIPTION

The Green Mountain Falls / Chipita Park Fire Protection District (District) proposes to construct a new central response fire station (Station) at Two Carsell Way, Green Mountain Falls, Colorado. The site is located within part of the Northwest ¼, Northeast 1/4 of Section 8, Township 12 South, Range 68 West, 6<sup>th</sup> Principal Meridian, Green Mountain Falls, El Paso County, Colorado. The property is bound to the west, north, and south by developed properties and the east by US Highway 24. A vicinity map is located in Appendix A of this report.

### PROPOSED DEVELOPMENT

The District is constructing a new central response fire station. The new facility is proposed to be approximately 14,000 ft<sup>2</sup> response fire station

### EXISTING CONDITIONS

---

#### EXISTING DRAINAGE

Lot 2 – Lot 2 is a vacant undeveloped lot. The lot gradient primarily ranges from 25% to 5%. The western portion of the lot slopes generally to the south. The eastern half of the side slopes to the east and south.

Lot 1 – Lot 1 is a developed lot and contains a graveled surface parking lot and the Green Mountain Falls Townhall and police department. This lot has a gradient ranging from 30% to 5% and slopes generally to the south. The intention of this report is to incorporate and improve the drainage systems associated with the Lot 1 and incorporate the drainage with Lot 2.

According to FEMA Flood Insurance Rate Map for this project, both Lot 1 and Lot 2 are not located in a flood plain

#### PROPOSED (DEVELOPED) DRAINAGE

---

#### DRAINAGE DESIGN CRITERIA

The proposed drainage facilities have been designed to comply with the City of Colorado Springs Drainage Criteria Manual, 2014 edition. This manual has been adopted by El Paso county as their stormwater criteria manual.

#### HYDROLOGIC METHOD AND DESIGN STORM FREQUENCIES

The Rational Method ( $Q=CIA$ ) was used to determine the storm runoff ( $Q$ ) from the sites, with a composite runoff coefficient ( $C$ ) and contributing areas ( $A$ ) given for design points in sub basins. The runoff coefficients for various land uses were obtained from City of Colorado Springs Drainage Criteria Manual. Intensities ( $I$ ) were determined using the Time-Intensity-Frequency Values (Figure 5, El Paso County) and a calculated Time of Concentration ( $t_c$ ). Post development time concentration calculations for each sub-basin, corresponding rainfall intensities, composite runoff coefficients, and storm flows for the 10-year and 100-year storms for each design point are provided in the appendix. Runoff rates have been shown on the included drainage map.

The total detention volume for this site was determined using the following equation;

$$V_{\text{required}} = ((V_{\text{runoff}} - V_{\text{discharge}}) + V_{\text{Water Quality}}) * FS$$

## Where

$V_{\text{required}}$  is defined as the total required detention volume

$V_{\text{runoff}}$  is defined as the runoff volume from the site

$V_{\text{discharge}}$  is defined as the allowable discharge volume for storm event

$V_{\text{Water Quality}}$  is defined as the additional WQCV volume required for water quality

FS is the Factor of Safety

The historic and developed volumes were calculated from the subject properties. The Water Quality Capture Volume (WQCV) was calculated from the total lot area. The 100 year volume was calculated from the composite area of the defined on-site sub basins. It is assumed that all offsite properties that drain to the subject property will restrict developed release rates to the historic values. The offsite flows will therefore be routed un-detained through the pond. It is also assumed that the property to the west and Hwy 24 ROW to the north of the subject property will reach Fountain Creek and will not impact the proposed drainage system. Undeveloped and impacted areas of the subject properties will retain their respective historical flows.

## SITE BASINS AND SUB-BASINS

The proposed site drainage consists of nine (9) major basins, two (2) Of-Site Basins OS and seven (7) On Site Basins A-G. Basins A-G are divided according to the areas that drain into each proposed stormwater structure on the site. This was done to simplify the calculations for sizing of swales, pipes and inlets in each basin.

### Description of Major Drainage Basins

Basin “A” (13915.19 sf/ 0.319 acres) is comprised of the proposed parking and concrete apron at the south face of the proposed fire station. All drainage within Basin A sheet flows across parking area into a Type R Curb inlet along southern curb of parking

Basin “B” (11748.61 sf/ 0.270 acres) is comprised of the north eastern section of Lot 2. Drainage from this basin includes stormwater flowing from the eastern wing of the proposed building and building pad along with flows from the historic site above the eastern retaining wall. These flows are captured in a Type C inlet located at the interception of the proposed roadway and parking pad.

Basin “C” (8492.99 sf/ 0.1950 acres) is comprised of the eastern half of the inner curve of the proposed roadway. Flows from this basin sheet flow across the historic site as well as the proposed roadway into a drainage swale along the roadway and is then carried to another Type C inlet at the southernmost point of the proposed roadway.

Basin “D” (7410.691sf/ 0.170 acres) is comprised of the western half of the proposed roadway. Flows from this basin sheet flow across the historic site as well as the proposed roadway into a drainage swale along the roadway and is then carried to another Type C inlet located along the proposed roadway before the retaining wall also along the road.

Basin “E” (35250.59sf/ 0.809 acres) is comprised of the north western quarter of Lot 2. This area includes the center and western sections of the fire station and building pad, and historic flows from the existing drainage on the northern section of Lot 2. All drainage either sheet flows into the proposed Type C inlet directly or flows into a series of swales that transport the drainage into the inlet.



Basin “F” (21500.08sf/ 0.494 acres) is comprised of the north eastern section of lot 1. Flows from this basin sheet flow across the historic site into a drainage swale and then into the final Type C inlet that transports the flows into the detention basin.

Basin “G” (35865.94sf/ 0.823) is comprised of the existing town hall site located in lot 1. Flows from this basin flow directly from the town hall site and into the detention basin.

Basin “OS” (9939.16sf/0.228 acres) is comprised of a section of existing road and grading that slope off site and drain onto Green Mountain Falls Road as historical drainage that will not be captured in the proposed stormwater network.

Basin “OH” (11350.85sf/ 0.260 acres) is comprised of the area south of the proposed access road to the fire station. This area historically flows into the property to the south of lot 2 and no drainage from this area will be from developed areas, only historical flows will be flowing into adjacent site.

Runoff from the of-site basins OS and OH will follow existing flow paths off of the property and will not be captured in storm water network. While runoff from Basins A through G will be routed via overland flows and a network of inlets and private storm sewer system which combined will convey flows to the improved detention pond facility (pond) and ultimately to Fountain Creek. The pond, located in the lowest corner of Lot 1, e.g. the southeast corner, will also provide water quality for the tributary areas as described above. The basins are outlined in on civil sheet C 3.4 which is included in the Appendix.

#### RUNOFF AND DETENTION

Lot 2 is currently undeveloped and Lot 1 is currently developed. Lot 1 does have onsite detention but due to neglect the onsite detention is no longer functional. Lot 1 and 2 will share a revitalized and developed detention facility in the southeast corner of Lot 1.

The detention pond has been designed for the disturbed basin areas as defined above. The pond will receive overland developed flows as well as hydraulically connected flows by a series of 15” and 24” HDPE storm pipes.

The 10-year and 100-year detention pond volumes were calculated with the rational method per the City of Colorado Springs Drainage Criteria Manual. The pond is designed to contain the 100-year volume plus the water quality volume with a minimum of 1-foot of freeboard.

Flows from the 10-year storm event will be captured and conveyed through the proposed storm sewer, grass swales, and outland to the pond. A portion of the flows from the 100-year storm runoff will be captured by the proposed storm sewer system and swales and conveyed to the detention pond. The remainder of the 100-year storm runoff will sheet flow across the site toward the pond and public rights of way.

The outlet structure from the pond is a Type D Outlet and has been designed to restrict the three required release rates with the use of a water quality plate, a 10-year weir and a 100-year orifice plate on the outlet pipe with an overtopping grate. The allowable release rates have been computed per El Paso County standards and are 2.77 cfs for the 10-year event and 5.29 cfs for the 100-year event.

The emergency spillway for the pond is an engineered berm on the west side of the pond, see plans for dimensions and elevations. The berm will allow water to safely sheet flow at a low velocity to Fountain Creek. The spillway for the pond has been designed with a 1’-0” freeboard and will carry at least the flows for the 100-year storm event.

Some of the storm flows entering the detention pond will be conveyed via a hydraulic system consisting of 15” and 24” HDPE pipe. The flows entering via the storm sewer pipe will be controlled by an energy

dissipating structure, prior to entering the pond. This structure has been designed to accommodate the 100-year storm flows. Refer to drawings for details.

## CONCLUSIONS

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The majority of the proposed development flows will be routed to the onsite detention and water quality pond. The proposed storm system and detention pond release rates are in conformance with El Paso requirements. Calculations and other reference materials used are attached in the Appendix. The referenced Developed Drainage Map, Figure 1, depicts the drainage design points, developed runoff sub-basins, and configuration of the proposed storm drainage system. The recommendations of this report are in conformance with El Paso County, Colorado.

Proper detention and drainage facilities are proposed to adequately handle all on-site drainage while enhancing the stormwater quality. There will not be any negative impacts on adjacent, upstream, and downstream properties under both existing and future build-out conditions of this site.

## REFERENCES

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1. City of Colorado Springs Drainage Criteria Manual, 2014 edition.



## APPENDIX A – VICINITY MAP



Figure 1: Vicinity Map



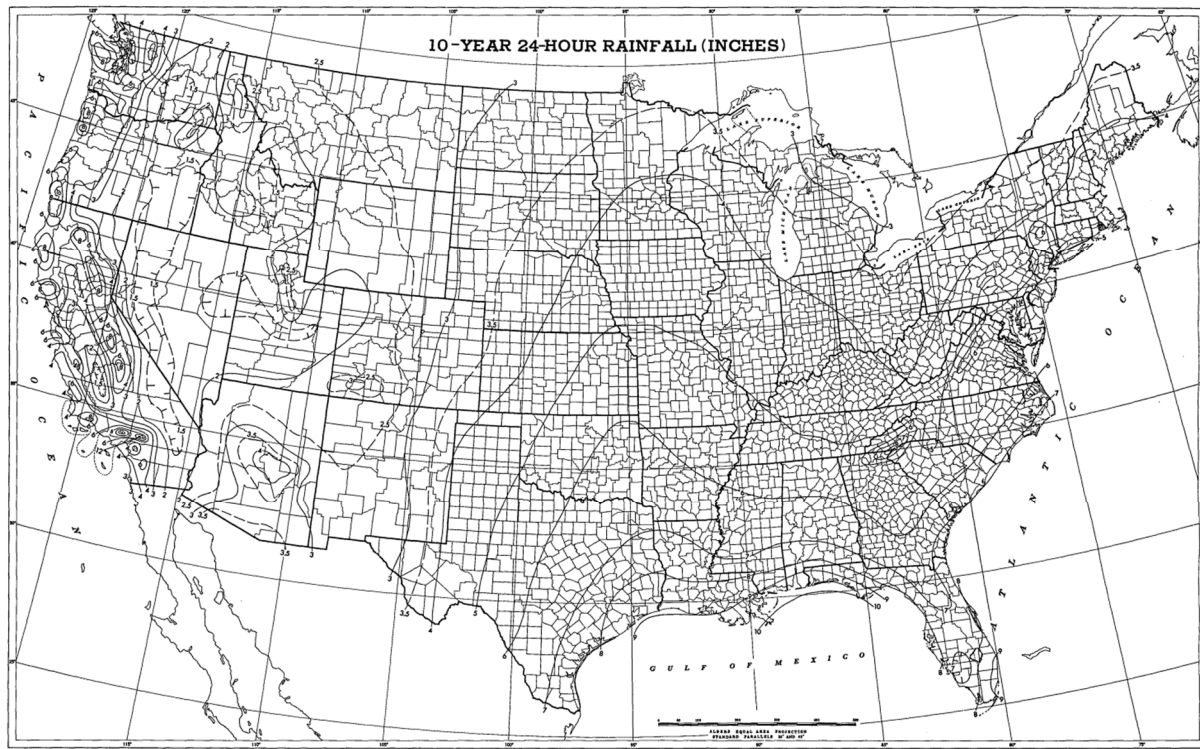
**APPENDIX B – CALCULATIONS**

Figure 2: 10-Year Rainfall Depth

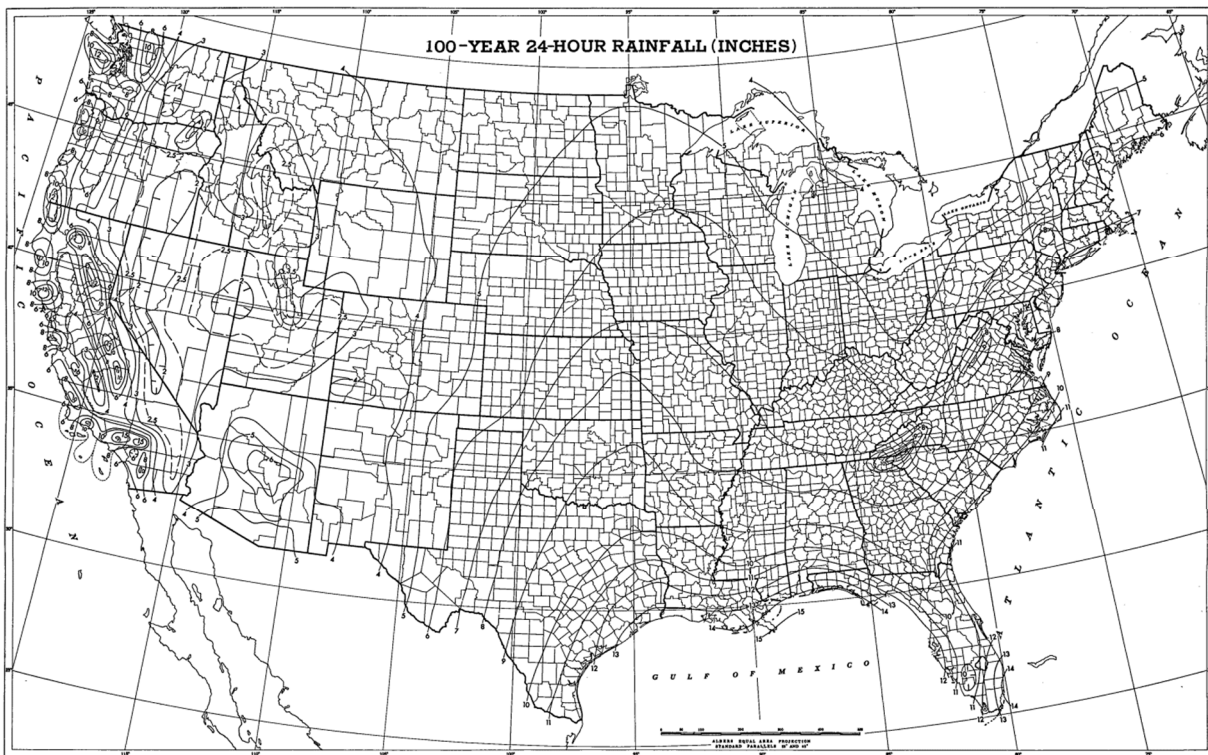


Figure 3: 100-Year Rainfall Depth

7/16/2018

Precipitation Frequency Data Server



**NOAA Atlas 14, Volume 8, Version 2**  
**Location name: Cascade, Colorado, USA\***  
**Latitude: 38.9378°, Longitude: -105.0151°**  
**Elevation: 7772.78 ft\*\***  
 \* source: ESRI Maps  
 \*\* source: USGS

**POINT PRECIPITATION FREQUENCY ESTIMATES**

Sanja Perica, Deborah Martin, Sandra Pavlovic, Ishani Roy, Michael St. Laurent, Carl Trypanuk, Dale Unruh, Michael Yekta, Geoffrey Bonnin

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aeriels](#)

**PF tabular**

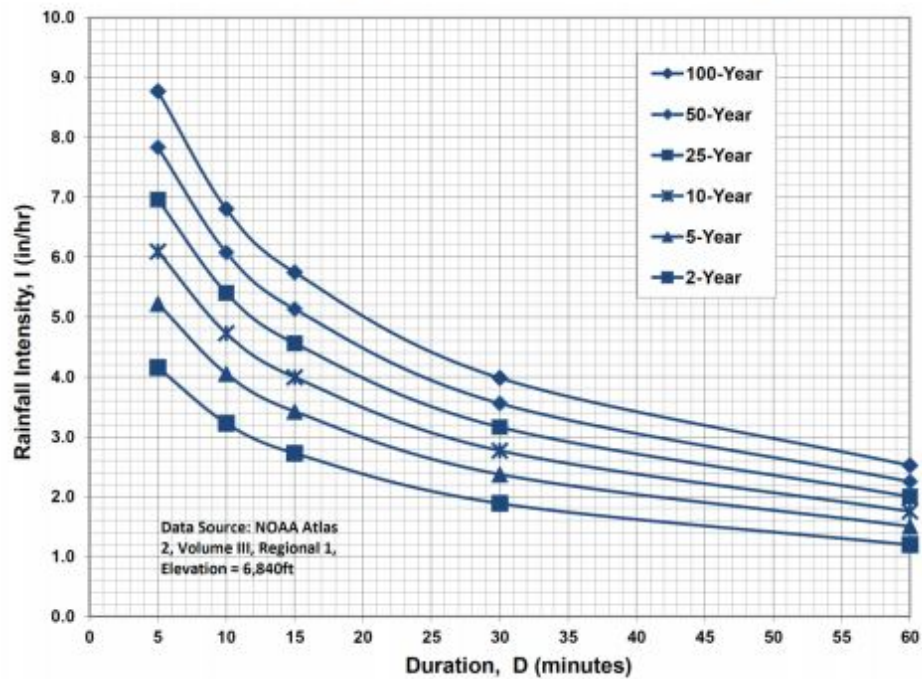
<b>PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)<sup>1</sup></b>										
<b>Duration</b>	<b>Average recurrence interval (years)</b>									
	<b>1</b>	<b>2</b>	<b>5</b>	<b>10</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	<b>1000</b>
<b>5-min</b>	0.226 (0.184-0.280)	0.271 (0.220-0.336)	0.350 (0.283-0.435)	0.420 (0.338-0.526)	0.524 (0.408-0.693)	0.610 (0.460-0.819)	0.701 (0.508-0.971)	0.798 (0.551-1.15)	0.934 (0.617-1.39)	1.04 (0.666-1.57)
<b>10-min</b>	0.331 (0.269-0.410)	0.397 (0.323-0.492)	0.513 (0.415-0.637)	0.616 (0.494-0.770)	0.768 (0.597-1.01)	0.893 (0.674-1.20)	1.03 (0.744-1.42)	1.17 (0.807-1.68)	1.37 (0.903-2.03)	1.53 (0.976-2.30)
<b>15-min</b>	0.404 (0.328-0.500)	0.484 (0.393-0.600)	0.625 (0.506-0.777)	0.751 (0.603-0.939)	0.936 (0.728-1.24)	1.09 (0.822-1.46)	1.25 (0.907-1.73)	1.43 (0.984-2.05)	1.67 (1.10-2.48)	1.86 (1.19-2.81)
<b>30-min</b>	0.536 (0.435-0.663)	0.642 (0.521-0.795)	0.828 (0.669-1.03)	0.993 (0.798-1.24)	1.24 (0.961-1.63)	1.44 (1.09-1.93)	1.65 (1.20-2.29)	1.88 (1.30-2.69)	2.20 (1.45-3.26)	2.45 (1.57-3.69)
<b>60-min</b>	0.664 (0.540-0.822)	0.781 (0.634-0.967)	0.992 (0.802-1.23)	1.19 (0.953-1.48)	1.48 (1.16-1.97)	1.74 (1.31-2.34)	2.01 (1.46-2.79)	2.30 (1.59-3.32)	2.73 (1.80-4.06)	3.07 (1.96-4.63)
<b>2-hr</b>	0.792 (0.648-0.973)	0.919 (0.751-1.13)	1.16 (0.941-1.43)	1.38 (1.12-1.71)	1.73 (1.37-2.29)	2.03 (1.55-2.73)	2.36 (1.73-3.27)	2.73 (1.91-3.91)	3.26 (2.18-4.82)	3.69 (2.38-5.52)
<b>3-hr</b>	0.885 (0.727-1.08)	1.01 (0.829-1.24)	1.26 (1.03-1.54)	1.50 (1.22-1.85)	1.88 (1.50-2.50)	2.23 (1.71-2.99)	2.61 (1.93-3.61)	3.03 (2.13-4.34)	3.65 (2.46-5.40)	4.17 (2.70-6.21)
<b>6-hr</b>	1.11 (0.914-1.34)	1.25 (1.03-1.52)	1.54 (1.26-1.88)	1.83 (1.50-2.24)	2.31 (1.86-3.05)	2.74 (2.13-3.66)	3.23 (2.41-4.44)	3.77 (2.68-5.37)	4.58 (3.11-6.73)	5.25 (3.44-7.76)
<b>12-hr</b>	1.42 (1.18-1.71)	1.61 (1.34-1.94)	2.00 (1.66-2.42)	2.38 (1.96-2.90)	3.00 (2.43-3.93)	3.56 (2.78-4.71)	4.18 (3.14-5.69)	4.87 (3.49-6.87)	5.88 (4.04-8.57)	6.73 (4.45-9.87)
<b>24-hr</b>	1.75 (1.47-2.09)	2.02 (1.69-2.42)	2.53 (2.11-3.04)	3.03 (2.51-3.66)	3.83 (3.11-4.95)	4.53 (3.56-5.93)	5.30 (4.01-7.16)	6.16 (4.45-8.61)	7.41 (5.13-10.7)	8.45 (5.64-12.3)
<b>2-day</b>	2.06 (1.74-2.44)	2.39 (2.01-2.84)	3.02 (2.54-3.60)	3.63 (3.03-4.34)	4.59 (3.75-5.88)	5.43 (4.30-7.05)	6.35 (4.85-8.51)	7.38 (5.38-10.2)	8.88 (6.20-12.7)	10.1 (6.82-14.6)
<b>3-day</b>	2.26 (1.91-2.67)	2.61 (2.21-3.08)	3.28 (2.76-3.88)	3.92 (3.28-4.67)	4.94 (4.06-6.31)	5.84 (4.65-7.55)	6.82 (5.23-9.10)	7.92 (5.81-10.9)	9.52 (6.69-13.6)	10.8 (7.35-15.6)
<b>4-day</b>	2.43 (2.06-2.85)	2.78 (2.36-3.27)	3.46 (2.93-4.09)	4.12 (3.46-4.90)	5.17 (4.26-6.58)	6.10 (4.87-7.85)	7.11 (5.47-9.45)	8.25 (6.07-11.3)	9.90 (6.98-14.1)	11.3 (7.67-16.1)
<b>7-day</b>	2.86 (2.44-3.34)	3.23 (2.76-3.78)	3.95 (3.36-4.63)	4.64 (3.92-5.48)	5.74 (4.75-7.23)	6.69 (5.38-8.55)	7.75 (6.00-10.2)	8.92 (6.61-12.2)	10.6 (7.55-15.0)	12.0 (8.26-17.1)
<b>10-day</b>	3.27 (2.80-3.80)	3.69 (3.16-4.29)	4.47 (3.81-5.22)	5.20 (4.41-6.11)	6.35 (5.26-7.92)	7.33 (5.91-9.29)	8.40 (6.53-11.0)	9.59 (7.13-13.0)	11.3 (8.05-15.8)	12.7 (8.75-18.0)
<b>20-day</b>	4.49 (3.88-5.18)	5.11 (4.40-5.90)	6.16 (5.29-7.14)	7.08 (6.04-8.25)	8.40 (6.96-10.3)	9.48 (7.66-11.8)	10.6 (8.26-13.6)	11.8 (8.80-15.7)	13.4 (9.62-18.5)	14.7 (10.2-20.7)
<b>30-day</b>	5.47 (4.74-6.28)	6.24 (5.40-7.17)	7.50 (6.47-8.65)	8.56 (7.33-9.92)	10.0 (8.29-12.1)	11.1 (9.02-13.7)	12.3 (9.60-15.6)	13.4 (10.1-17.7)	15.0 (10.8-20.5)	16.2 (11.3-22.6)
<b>45-day</b>	6.63 (5.77-7.58)	7.56 (6.57-8.64)	9.03 (7.82-10.4)	10.2 (8.79-11.8)	11.8 (9.78-14.1)	13.0 (10.5-15.8)	14.1 (11.1-17.8)	15.2 (11.4-19.9)	16.7 (12.0-22.6)	17.7 (12.5-24.6)
<b>60-day</b>	7.56 (6.60-8.61)	8.59 (7.48-9.78)	10.2 (8.85-11.7)	11.5 (9.89-13.2)	13.1 (10.9-15.5)	14.3 (11.6-17.3)	15.4 (12.1-19.3)	16.5 (12.4-21.5)	17.8 (12.9-24.1)	18.7 (13.3-26.0)

<sup>1</sup> Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.  
 Please refer to NOAA Atlas 14 document for more information.

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**PF graphical**

Figure 4: Design Storm Distribution of 1-Hour NOAA Atlas Depths

**Figure 6-5. Colorado Springs Rainfall Intensity Duration Frequency****IDF Equations**

$$I_{100} = -2.52 \ln(D) + 12.735$$

$$I_{50} = -2.25 \ln(D) + 11.375$$

$$I_{25} = -2.00 \ln(D) + 10.111$$

$$I_{10} = -1.75 \ln(D) + 8.847$$

$$I_5 = -1.50 \ln(D) + 7.583$$

$$I_2 = -1.19 \ln(D) + 6.035$$

Note: Values calculated by equations may not precisely duplicate values read from figure.

**Adjustment Factors to Obtain N-Minute Estimates From One-Hour Values**

Duration (minutes)	5	10	15	30
Ratio to 1-Hr Depth	0.29	0.45	0.57	0.79

**From NOAA Atlas 2 Vol. III Table 12****One-Hour Design Point Rainfall Values for Various Parts of Western El Paso County/Eastern Teller County**

	5-Yr	10-Yr	100-Yr
Cascade	1.05	1.25	2.08
Woodland Park	0.979	1.18	2.04
Green Mountain Falls	1.00	1.20	2.01





Figure 6: Web Soil Map

**Pike National Forest, Eastern Part, Colorado, Parts of Douglas, El Paso, Jefferson, and Teller Counties**

**47—Sphinx, warm-Rock outcrop complex, 15 to 80 percent slopes**

**Map Unit Setting**

National map unit symbol: jpjz  
 Elevation: 6,500 to 9,200 feet  
 Mean annual precipitation: 15 to 24 inches  
 Mean annual air temperature: 43 to 48 degrees F  
 Frost-free period: 70 to 125 days  
 Farmland classification: Not prime farmland

**Map Unit Composition**

Sphinx, warm, and similar soils: 60 percent  
 Rock outcrop: 25 percent  
 Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

**Description of Sphinx, Warm**

**Setting**

Landform: Mountain slopes  
 Landform position (three-dimensional): Mountaintop, mountainflank  
 Down-slope shape: Linear, convex  
 Across-slope shape: Linear, convex  
 Parent material: Weathered from granite

**Typical profile**

Oi - 0 to 1 inches: slightly decomposed plant material  
 A - 1 to 5 inches: gravelly coarse sandy loam  
 AC - 5 to 13 inches: very gravelly loamy coarse sand  
 Cr - 13 to 61 inches: weathered bedrock

**Properties and qualities**

Slope: 15 to 70 percent  
 Depth to restrictive feature: 10 to 20 inches to paralithic bedrock  
 Natural drainage class: Somewhat excessively drained  
 Runoff class: Very high  
 Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)  
 Depth to water table: More than 80 inches  
 Frequency of flooding: None  
 Frequency of ponding: None  
 Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
 Available water storage in profile: Very low (about 0.9 inches)

**Interpretive groups**

Land capability classification (irrigated): None specified  
 Land capability classification (nonirrigated): 7e  
 Hydrologic Soil Group: D  
 Other vegetative classification: Ponderosa pine/kinnikinnick (PIPO/ARUV) (C1140)  
 Hydric soil rating: No

**Description of Rock Outcrop**

**Setting**

Landform: Mountain slopes  
 Landform position (three-dimensional): Mountaintop, mountainflank  
 Down-slope shape: Linear, convex  
 Across-slope shape: Linear, convex

**Typical profile**

R - 0 to 61 inches: bedrock

**Properties and qualities**

Slope: 15 to 80 percent  
 Depth to restrictive feature: 0 inches to lithic bedrock  
 Runoff class: Very high  
 Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)  
 Available water storage in profile: Very low (about 0.0 inches)

**Interpretive groups**

Land capability classification (irrigated): None specified  
 Land capability classification (nonirrigated): 8  
 Hydrologic Soil Group: D  
 Hydric soil rating: No

**Minor Components**

**Sphinx, dark surface**

Percent of map unit: 10 percent  
 Landform: Mountain slopes  
 Landform position (three-dimensional): Mountainflank  
 Down-slope shape: Linear, convex  
 Across-slope shape: Linear, convex  
 Other vegetative classification: Ponderosa pine/kinnikinnick (PIPO/ARUV) (C1140)  
 Hydric soil rating: No

**Garber**

Percent of map unit: 5 percent  
 Landform: Drainageways, mountain slopes  
 Landform position (three-dimensional): Mountainbase  
 Down-slope shape: Linear, convex, concave  
 Across-slope shape: Linear, convex, concave  
 Hydric soil rating: No

Figure 8: Soil Type 47 Description pt.2

Figure 7: Soil Type 47 Description pt.1

## Calculations for Sizing of Detention Basin

### Composite Runoff Coefficient Calculations

Composite Runoff coefficients were calculated for each basin using the formula:

$$C_c = \frac{C_1A_1 + C_2A_2 + \dots C_iA_i}{A_t}$$

Where:

$C_c$  = composite runoff coefficient of total area

$C_i$  = runoff coefficient for subarea corresponding to surface type of land use

$A_i$  = area of surface type corresponding to  $C_i$

$A_t$  = total area of all subareas where composite runoff coefficient applies

$I$  = number of surface types in the drainage area

Values for runoff coefficients for different surface types were found in City of Colorado Springs Drainage Criteria Manual Chapter 6, Table 6-6

### Ten Year Calculations

Historic Ten-Year Runoff Coefficient:

Lot 1:

$$C_1 = \frac{0.77*4230sf + 0.92*1420sf + 0.66*12900sf + 0.25*46404sf}{67954sf}$$

$$C_1 = 0.36$$

Lot 2:

$$C_{c,1} = \frac{0.25*87555sf}{87555sf}$$

$$C_{c,1} = 0.25$$

10 Year Runoff Coefficient for Total Historic Site

$$C_T = \frac{0.36*1.56ac + 0.25*2.01ac}{3.57ac}$$

$$C_T = 0.30$$

Developed Ten-Year Runoff Coefficient

Basin A:

$$C_{c,a} = \frac{0.92*13224.93sf + 0.25*690.25sf}{13915.18sf}$$

$$C_{c,a} = 0.89$$

Basin B:

$$C_{c,b} = \frac{0.77*3381.81sf + 0.92*3152.60sf + 0.66*2605.17sf + 0.25*2669.63sf}{11748.61sf}$$

$$C_{c,b} = 0.68$$

Basin C:

$$C_{c,c} = \frac{0.92*3377.09sf + 0.25*5115.90sf}{8492.99sf}$$

$$C_{c,c} = 0.52$$

Basin D:

$$C_{c,d} = \frac{0.92*2507.66sf + 0.25*4903.04sf}{7410.70sf}$$

$$C_{c,d} = 0.48$$

Basin E:

$$C_{c,e} = \frac{0.77*9859.38sf + 0.92*5061.99sf + 0.66*1708.76sf + 0.25*18600.46sf}{5061.99sf}$$

$$C_{c,e} = 0.51$$

Basin F:

$$C_{c,f} = \frac{0.92*3206.43sf + 0.25*18294.91sf}{21500.08sf}$$

$$C_{c,f} = 0.35$$

Basin G:

$$C_{c,g} = \frac{0.77*4230.0sf + 0.92*1820.10sf + 0.66*9199.21sf + 0.25*20617.73sf}{35865.94sf}$$

$$C_{c,g} = 0.45$$

Composite 10 Year Runoff Coefficient for Total Developed Site

$$C_T = \frac{0.89*0.319ac + 0.68*0.270ac + 0.52*0.195ac + 0.48*0.170ac + 0.51*0.809ac + 0.35*0.494ac + 0.45*0.823ac}{3.08ac}$$

$$C_T = 0.52$$

### 100 Year Calculations

Historic Hundred-Year Runoff Coefficient:

Lot 1:

$$C_1 = \frac{0.83*4230sf + 0.96*1420sf + 0.74*12900sf + 0.50*4640sf}{67954sf}$$

$$C_1 = 0.55$$

Lot 2:

$$C_{c,1} = \frac{0.5*8755sf}{8755sf}$$

$$C_{c,1} = 0.50$$

Runoff Coefficient for Total Historic Site

$$C_T = \frac{0.55*1.56ac + 0.5*2.01ac}{3.57ac}$$

$$C_T = 0.52$$



## Developed Hundred-Year Runoff Coefficient

Basin A:

$$C_{c,a} = \frac{0.96*13224.93\text{ sf} + 0.5*690.25\text{ sf}}{13915.18\text{ sf}}$$

$$C_{c,a} = 0.94$$

Basin B:

$$C_{c,b} = \frac{0.83*3381.81\text{ sf} + 0.96*3152.60\text{ sf} + 0.74*2605.17\text{ sf} + 0.5*2669.63}{11748.61\text{ sf}}$$

$$C_{c,b} = 0.78$$

Basin C:

$$C_{c,c} = \frac{0.96*3377.09\text{ sf} + 0.5*5115.90\text{ sf}}{8492.99\text{ sf}}$$

$$C_{c,c} = 0.68$$

Basin D:

$$C_{c,d} = \frac{0.96*2507.66\text{ sf} + 0.5*4903.04\text{ sf}}{7410.70\text{ sf}}$$

$$C_{c,d} = 0.66$$

Basin E:

$$C_{c,e} = \frac{0.83*9859.38\text{ sf} + 0.96*5061.99\text{ sf} + 0.74*1708.76\text{ sf} + 0.5*18600.46\text{ sf}}{5061.99\text{ sf}}$$

$$C_{c,e} = 0.67$$

Basin F:

$$C_{c,f} = \frac{0.96*3206.43\text{ sf} + 0.5*18294.91\text{ sf}}{21500.08\text{ sf}}$$

$$C_{c,f} = 0.57$$

Basin G:

$$C_{c,g} = \frac{0.83*4230.0\text{ sf} + 0.96*1820.10\text{ sf} + 0.74*9199.21\text{ sf} + 0.5*20617.73\text{ sf}}{35865.94\text{ sf}}$$

$$C_{c,g} = 0.62$$

## Composite 100 Year Runoff Coefficient for Total Developed Site

$$C_T = \frac{0.94*0.319\text{ ac} + 0.78*0.270\text{ ac} + 0.68*0.195\text{ ac} + 0.66*0.170\text{ ac} + 0.67*0.809\text{ ac} + 0.57*0.494\text{ ac} + 0.62*0.823\text{ ac}}{3.08\text{ ac}}$$

$$C_T = 0.68$$

## Time of Concentration Calculations

Time of concentration for historic and developed areas calculated using:

$$t_c = t_i + t_t$$

$$t_i = \frac{1.87(1.1-C_{10})\sqrt{L_0}}{S^{0.33}} \text{ for 10 year}$$

$$t_i = \frac{4.43(1.1-C_{100})\sqrt{L_0}}{S^{0.33}} \text{ for 100 year}$$

$$t_t = \frac{L_c}{C_v S_w^{0.5}}$$

Where:

$t_c$  = time of concentration

$t_i$  = overland flow time

$t_t$  = travel time in ditch, channel, gutter, storm sewer etc.

$C_i$  = Runoff coefficient

$L_0$  = Length of overland flow

$S$  = average basin slope

$C_v$  = Conveyance coefficient (from Table 6-7 in Colorado Springs DCM)

Historic Time of Concentration of 10 year storm

$$t_i = \frac{1.87(1.1-0.30)\sqrt{600}}{11^{0.33}} = 16.61 \text{ min}$$

$$t_t = 0 \text{ min}$$

$$t_c = 16.60 \text{ min}$$

Developed Time of Concentration for 10 year storm

$$t_i = \frac{1.87(1.1-0.52)\sqrt{325}}{2^{0.33}} = 15.55 \text{ min}$$

$$t_t = \frac{600}{15 \times 0.06^{0.5}} = 163.3 \text{ sec} = 2.72 \text{ min}$$

$$t_c = 18.27 \text{ min}$$

Historic Time of Concentration of 100 year storm

$$t_i = \frac{4.43(1.1-0.52)\sqrt{600}}{11^{0.33}} = 28.32 \text{ min}$$

$$t_t = 0 \text{ min}$$

$$t_c = 28.32 \text{ min}$$

Developed Time of Concentration for 100 year storm

$$t_i = \frac{4.43(1.1-0.68)\sqrt{325}}{2^{0.33}} = 26.62 \text{ min}$$

$$t_t = \frac{600}{15 * 0.06^{0.5}} = 163.3 \text{ sec} = 2.72 \text{ min}$$

$$t_c = 29.34 \text{ min}$$

### Calculating WQCV

The Water Quality Capture Volume (WQCV) was calculated using:

$$WQCV = 0.91I^3 - 1.19I^2 + 0.78I$$

Where:

WQCV = Water Quality Capture Volume(in)

I = Percent Imperviousness of Basin

Calculating Percent Impervious of Total Site was calculated using

$$I_T = \frac{I_1 * A_1 + I_2 * A_2 \dots + I_i * A_i}{A_t}$$

Where:

$I_T$  = composite percent impervious of total area

$I_i$  = percent impervious for subarea corresponding to surface type of land use

$A_i$  = area of surface type corresponding to  $I_i$

$A_t$  = total area of all subareas where composite percent impervious applies

I = number of surface types in the drainage area

Percent Imperious of Site

$$I_T = \frac{1.0 * 33364 + 0.9 * 1742 + 0.80 * 13514 + 0.02 * 106889}{155509}$$

$$I_T = 0.31$$

Calculating WQCV

$$WQCV = 0.91(0.31)^3 - 1.19(0.31)^2 + 0.78(0.31)$$

$$WQCV = 0.155 \text{ in}$$

### Calculating Full Spectrum Detention Volume

$$V_{\text{required}} = ((V_{\text{runoff}} - V_{\text{discharge}}) + V_{\text{Water Quality}}) * FS$$

Where

$V_{\text{required}}$  is defined as the total required detention volume

$V_{\text{runoff}}$  is defined as the runoff volume from the site

$V_{\text{discharge}}$  is defined as the allowable discharge volume for storm event

$V_{\text{Water Quality}}$  is defined as the additional volume required for detention for water quality

FS is the Factor of Safety

### Calculating Site Runoff volume

From the Rational Method the site runoff volume is calculated using:

$$V_{runoff} = C_t I A_T T$$

Where:

$C_t$  = The runoff coefficient for the developed site

$I$  = Average Rainfall intensity for a duration equal to the time of concentration in in/hr  
(Determined using NOAA Atlas 14 rainfall intensity chart for site location)

$A_T$  = Drainage basin area (acres)

$T$  = Duration of Design Storm Event (Equal to Time of Concentration for storm event)

Calculating Runoff Volume for 15min 10-year storm

$$V_{runoff} = 0.52 * \frac{3.0 \text{ in}}{\text{hr}} * 3.08 \text{ acre} * 0.25 \text{ hr} * \frac{3600 \text{ sec}}{\text{hr}}$$

$$V_{runoff} = 4324.32 \text{ cf}$$

Calculating Runoff Volume for 30min 100-year storm

$$V_{runoff} = 0.68 * \frac{3.30 \text{ in}}{\text{hr}} * 3.08 \text{ acre} * 0.5 \text{ hr} * \frac{3600 \text{ sec}}{\text{hr}}$$

$$V_{runoff} = 12440.76 \text{ cf}$$

### Calculating allowable Discharge Volume

From Colorado Spring DCM Volume 1 the allowable release rate for a site can be determined from the historic discharge rate of the existing site using the rational method:

$$V_{discharge} = C_t I A_T T$$

Where:

$C_t$  = The runoff coefficient for the historic site

$I$  = Average Rainfall intensity for a duration equal to the time of concentration in in/hr  
(Determined using NOAA Atlas 14 rainfall intensity chart for site location)

$A_T$  = Drainage basin area (acres)

$T$  = Duration of Design Storm Event (Equal to Time of Concentration for storm event)

Calculating Discharge Volume for 15min 10-year storm

$$V_{discharge} = 0.30 * \frac{3.0 \text{ in}}{\text{hr}} * 3.08 \text{ acre} * 0.25 \text{ hr} * \frac{3600 \text{ sec}}{\text{hr}}$$

$$V_{discharge} = 2494.8 \text{ cf}$$

Calculating Discharge Volume for 30min 100-year storm

$$V_{discharge} = 0.52 * \frac{3.30 \text{ in}}{\text{hr}} * 3.08 \text{ acre} * 0.5 \text{ hr} * \frac{3600 \text{ sec}}{\text{hr}}$$

$$V_{discharge} = 9513.504 \text{ cf}$$

### Calculating Additional Water Quality Volume

Additional Storage Volume for proposed detention pond from WQCV is calculated using:

$$V = \frac{WQCV}{12} A$$

Where:

V = Storage Volume (acre-ft)

WQCV = Water Quality Capture Volume (in)

A = Area of site (acre)

### Calculating Additional Storage

$$V = \frac{0.155}{12} 3.57$$

$$V = 0.046 \text{ acre-ft} = 2008.66 \text{ cf additional detention volume}$$

### Calculating Total Detention Volume

Total Detention Volume for 10-year event

$$V_{\text{required}} = ((V_{\text{runoff}} - V_{\text{discharge}}) + V_{\text{Water Quality}}) * FS$$

$$V_{\text{required}} = (4324.32 \text{ cf} - 2494.8 \text{ cf} + 2008.66 \text{ cf}) * 1.25$$

$$V_{\text{required}} = 4797.725 \text{ cf}$$

Total Detention Volume for 100-year event

$$V_{\text{required}} = ((V_{\text{runoff}} - V_{\text{discharge}}) + V_{\text{Water Quality}}) * FS$$

$$V_{\text{required}} = (12440.76 \text{ cf} - 9513.504 \text{ cf} + 2008.66 \text{ cf}) * 1.25$$

$$V_{\text{required}} = 6169.90 \text{ cf}$$

### Calculations for Sizing of Pipes

The proposed sub basins were drawn in such a way that the flows from each basin are captured in one proposed storm inlet as well as use one swale type to convey the flows. This allowed for simple calculations of stormwater pipe sizing and swale sizing.

#### Stormwater Pipe Sizing

Stormwater pipes were designed to contain the maximum expected flows of each basin with some design considerations:

- Maximum discharge of each pipe shall not exceed maximum expected flows
- Depth of flow in pipe is less than half of pipe diameter
- Minimum velocity of 3ft/s and a maximum velocity of 18ft/s
- Minimum slope of 0.5 percent
- Minimum pipe size of 15" diameter

With these considerations in mind a pipe diameter and maximum flow depth were assumed and then the discharge was calculated. If the calculated discharge equaled the maximum expected flow and all requirements were achieved, the pipe was determined to be acceptable. The maximum expected flow for each basin was determined using the rational method and the maximum discharge of each pipe was calculated using the Manning equation:

$$Q = \frac{1.49}{n} * A * R^{\frac{2}{3}} * \sqrt{S}$$

Where:

Q is the volumetric flow rate passing through the pipe(ft<sup>3</sup>/s)

A is the cross-sectional area of the flow normal to the flow direction (ft<sup>2</sup>)

S is the slope of the pipe in ft/ft

n is the Manning Roughness coefficient (0.012 for Corrugated HDPE Pipe)

R is the hydraulic radius

#### Calculations for Pipe Sizes by Basin

##### Basin A

Maximum Expected flow:

$$Q = C_{100} * I * A$$

$$Q = 0.94 * \frac{3.3in}{hr} * 0.319 acres$$

$$Q = 0.989 cfs$$

Given Slope = 12.9% and in an assumed pipe of 15" diameter

Depth = 2"

V = 9.95 ft/s

A 15" pipe is an adequate as it can convey the required discharge at a flow depth and velocity within standards.

## Basin B

Maximum Expected flow:

$$Q = C_{100} * I * A$$

$$Q = 0.78 * \frac{3.3in}{hr} * 0.270 acres$$

$$Q = 0.695 cfs$$

Given Slope = 4.94% and in an assumed pipe of 15" diameter

Depth = 2.1"

V = 6.29 ft/s

A 15" pipe is an adequate as it can convey the required discharge at a flow depth and velocity within standards.

## Basin C

Maximum Expected flow:

$$Q = C_{100} * I * A + Q_B$$

$$Q = 0.68 * \frac{3.3in}{hr} * 0.195 acres + 0.695 cfs$$

$$Q = 1.13 cfs$$

Given Slope = 2.18% and in an assumed pipe of 15" diameter

Depth = 3.3"

V = 5.53 ft/s

A 15" pipe is an adequate as it can convey the required discharge at a flow depth and velocity within standards.

## Basin D

Maximum expected flow:

$$Q = C_{100} * I * A + Q_A + Q_B + Q_C$$

$$Q = 0.66 * \frac{3.3in}{hr} * 0.170 acres + 0.989 cfs + 0.695 cfs + 0.44 cfs$$

$$Q = 2.49 cfs$$

Given Slope = 4.79% and in an assumed pipe of 18" diameter

Depth = 3.8"

V = 9.03 ft/s

A 18" pipe is an adequate as it can convey the required discharge at a flow depth and velocity within standards.

## Basin E

Maximum expected flow:

$$Q = C_{100} * I * A + Q_A + Q_B + Q_C + Q_D$$

$$Q = 0.67 * \frac{3.3in}{hr} * 0.809 acres + 0.989 cfs + 0.695cfs + 0.44cfs + 0.37cfs$$

$$Q = 4.28cfs$$

Given Slope = 8.62% and in an assumed pipe of 24" diameter

Depth = 3.97"

V = 12.60 ft/s

A 24" pipe is an adequate as it can convey the required discharge at a flow depth and velocity within standards.

Basin F

Maximum expected flow:

$$Q = C_{100} * I * A + Q_A + Q_B + Q_C + Q_D + Q_E$$

$$Q = 0.57 * \frac{3.3in}{hr} * 0.494 acres + 0.989 cfs + 0.695cfs + 0.44cfs + 0.37cfs + 1.79cfs$$

$$Q = 5.209cfs$$

Given Slope = 16.71% and in an assumed pipe of 24" diameter

Depth = 3.69"

V = 17.01 ft/s

A 24" pipe is an adequate as it can convey the required discharge at a flow depth and velocity within standards.

Basin G

There are no pipes in conjunction with Basin G as all flows are overland sheet flows.

Outflow Pipe Sizing

To size the outflow pipe that conveys water from detention pond to Fountain Creek, the allowable maximum release rate for both the 10 year and 100-year storms were considered as know discharge values and a pipe size and flow depth were determined to match these discharge values

10 Year Outflow

Required discharge of 2.71 cfs and pipe slope of 0.75%

A 24" Pipe would have a discharge of 2.71cfs at a flow depth of approximately 5.75" and a velocity of 4.64 ft/s

100 Year Outflow

Required discharge of 5.29 cfs and a pipe slope of 0.75%

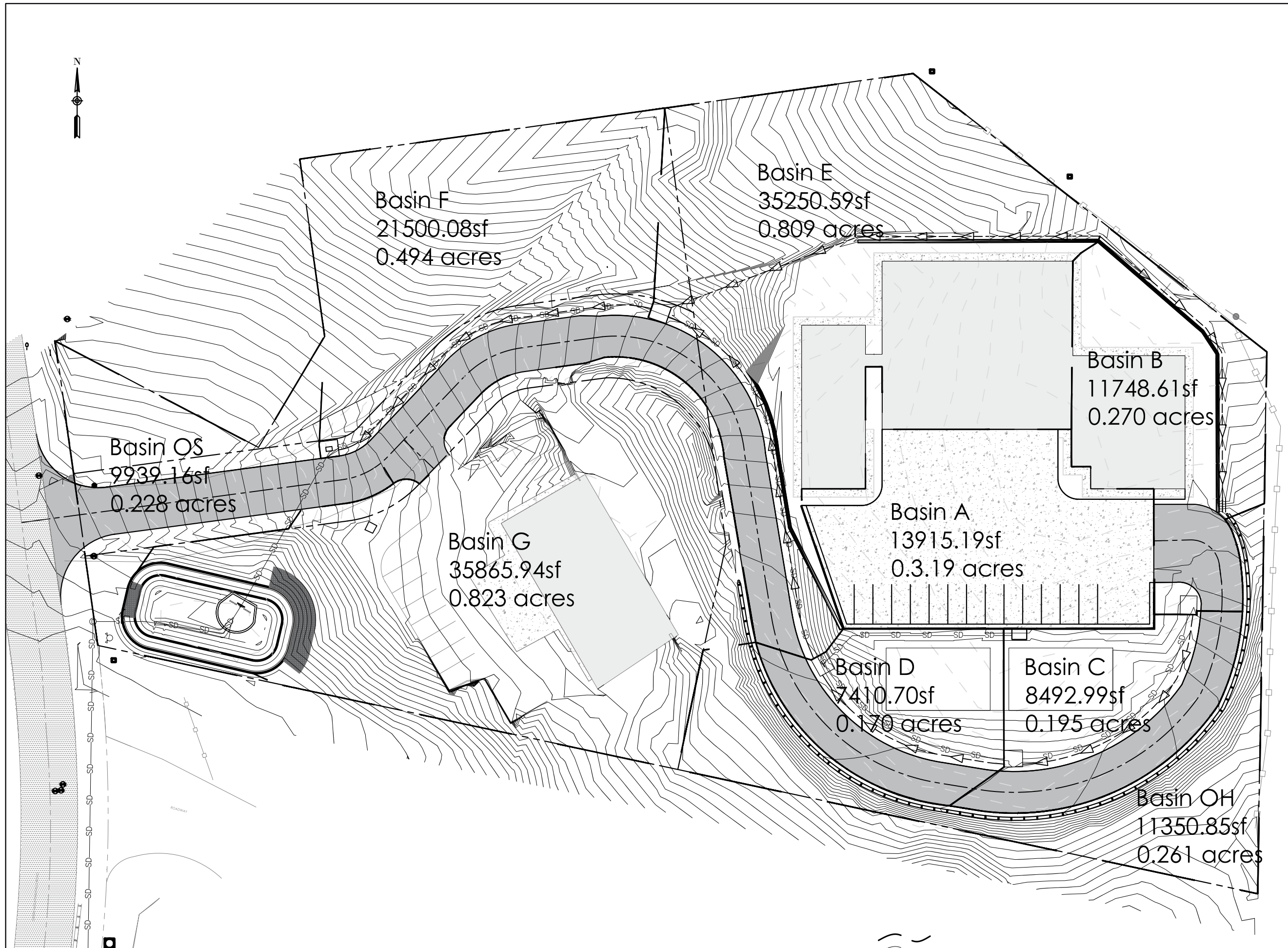
A 24" Pipe would have a discharge of 5.29cfs at a flow depth of approximately 8.16" and a velocity of 5.62 ft/s



## **Appendix C – Details**

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Refer to Civil Drawing Set



F & D  
International, LLC

Architecture, Engineering  
Project Management  
1930 CENTRAL AVE, SUITE B  
BOULDER, COLORADO 80302  
T: 303.652.3200  
WWW.FD-ONE.COM

GREEN MOUNTAIN FALLS FIRE DISTRICT  
STORM DRAIN/FIRE STATION  
Town Of Green Mountain Falls, El Paso County, CO



DATE: 30-AUG-18

DRAWN BY: H.A

DRAINAGE BASINS

AMENDED GREEN MOUNTAIN FALLS FIRE STATION SUBDIVISION

A REPLAT OF LOT 1, LOT 2A AND LOT 2B, GREEN MOUNTAIN FALLS TOWN HALL  
SUBDIVISION, RECEPTION NO 214713433, PART OF THE NW¼NE¼ SEC.8, TOWNSHIP 13  
SOUTH, RANGE 68 WEST, 6TH PM GREEN MOUNTAIN FALLS, EL PASO COUNTY, COLORADO  
SHEET 1 OF 2

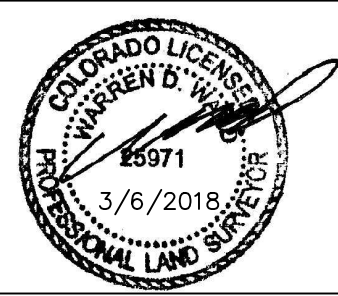
EASEMENTS:

EASEMENTS:  
UNLESS SHOWN GREATER IN WIDTH OR DESCRIBED HEREIN, SIDE LOT LINES ARE HEREBY PLATTED WITH A FIVE (5) FOOT EASEMENT FOR DRAINAGE AND PUBLIC UTILITIES, THE REAR LOT LINES ARE HEREBY PLATTED WITH A SEVEN (7) FOOT EASEMENT FOR DRAINAGE AND PUBLIC UTILITIES ONLY, AND THE FRONT LOT LINES ARE HEREBY PLATTED WITH A TEN (10) FOOT EASEMENT FOR DRAINAGE AND PUBLIC UTILITIES ONLY WITH THE SOLE RESPONSIBILITY FOR MAINTENANCE BEING VESTED WITH THE PROPERTY OWNERS.

- A. AN EASEMENT OF (0.196) ACRES +/- FOR DRAINAGE, STORMWATER DETENTION, AND STORMWATER QUALITY FOR THE SHARED USE OF LOT 1, LOT 2 WITH THE SOLE RESPONSIBILITY FOR MAINTENANCE BEING VESTED WITH THE PROPERTY OWNER(S) IS HEREBY PLATTED AS GRAPHICALLY REPRESENTED.
- B. A (40) FOOT EXCLUSIVE PUBLIC INGRESS AND EGRESS RIGHT-OF-WAYS FOR THE BENEFIT OF LOTS 1 & 2, AND THE PUBLIC IS HEREBY PLATTED AS SHOWN ACROSS AND OVER LOT 1, GREEN MOUNTAIN FALLS TOWN HALL SUBDIVISION WITH THE SOLE RESPONSIBILITY FOR MAINTENANCE BEING VESTED WITH THE TOWN OF GREEN MOUNTAIN FALLS AS GRAPHICALLY DESCRIBED HEREIN. THIS RIGHT-OF-WAYS SHALL REMAIN AND SHALL NOT BE VACATED OR CHANGED AFTER ANY CONVEYANCE OF LOT 1 TO PRIVATE OWNERSHIP PRIOR TO A RE-PLAT DONE IN FULL COMPLIANCE WITH THE TOWN AND/OR COUNTY SUBDIVISION REGULATIONS.

SURVEYOR'S CERTIFICATION:

THE UNDERSIGNED LICENSED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO HEREBY CERTIFIES THAT THE ACCOMPANYING PLAT WAS SURVEYED AND DRAWN UNDER HIS RESPONSIBLE CHARGE AND ACCURATELY SHOWS THE DESCRIBED TRACT OF LAND, AND SUBDIVISION THEREOF, AND THAT THE REQUIREMENTS OF TITLE 38 OF THE COLORADO REVISED STATUTES, 1973, AS AMENDED HAVE BEEN MET BASED ON FACTS KNOWN TO ME.  
THIS 6TH DAY OF MARCH, 2018.



WARREN D. WARD, COLORADO PLS 25971

PLANNERS CERTIFICATION:

I, TODD E. FICKEN, BEING A QUALIFIED PROFESSIONAL ENGINEER, CERTIFY THAT THIS PLAT OF THE AMENDED GREEN MOUNTAIN FALLS FIRE STATION SUBDIVISION HAS BEEN ENGINEERED, DESIGNED AND PLANNED IN ACCORDANCE WITH ALL APPLICABLE DESIGN STANDARDS AND OTHER REQUIREMENTS OF THE TOWN OF GREEN MOUNTAIN FALLS SUBDIVISION REGULATIONS BASED ON FACTS KNOWN TO ME  
THIS \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

TODD E. FICKEN, P.E.



BE IT KNOWN BY THESE PRESENTS:

THAT THE TOWN OF GREEN MOUNTAIN FALLS IS THE OWNER OF THE FOLLOWING DESCRIBED TRACT OF LAND TO WIT:  
LOT 1, GREEN MOUNTAIN FALLS TOWN HALL SUBDIVISION, IN THE TOWN OF GREEN MOUNTAIN FALLS, EL PASO COUNTY, COLORADO, AS SHOWN ON THE SUBDIVISION PLAT RECORDED AT RECEPTION NO.21473433, CONTAINING 1.561 ACRES, +/-.

THAT GREEN MOUNTAIN FALLS-CHIPITA PARK FIRE PROTECTION DISTRICT IS THE OWNER OF THE FOLLOWING DESCRIBED TRACT OF LAND, TO WIT:

LOT 2A, GREEN MOUNTAIN FALLS FIRE STATION SUBDIVISION, IN THE TOWN OF GREEN MOUNTAIN FALLS, EL PASO COUNTY, COLORADO, AS SHOWN ON THE SUBDIVISION PLAT AT RECEPTION NO. 214713433, CONTAINING 1.00 ACRES +/-

AND

LOT 2B, GREEN MOUNTAIN FALLS FIRE STATION SUBDIVISION, IN THE TOWN OF GREEN MOUNTAIN FALLS, EL PASO COUNTY, COLORADO, AS SHOWN ON THE SUBDIVISION PLAT AT RECEPTION NO. 214713433, CONTAINING 1.00 ACRES +/-

DEDICATION:

THE UNDERSIGNED PARTY IN INTEREST HAS CAUSED SAID TRACT TO BE SURVEYED AND PLATTED INTO LOTS, EASEMENTS AND RIGHT OF WAY AS SHOWN ON THIS PLAT, WHICH PLAT IS DRAWN TO A FIXED SCALE AS INDICATED HEREIN AND ACCURATELY SETS FORTH THE BOUNDARIES AND DIMENSIONS OF SAID TRACT AND THE LOCATION OF SAID EASEMENTS, AND WHICH PLAT SO PLATTED SHALL BE KNOWN AS "THE AMENDED GREEN MOUNTAIN FALLS FIRE STATION SUBDIVISION", GREEN MOUNTAIN FALLS, EL PASO COUNTY, COLORADO.

LEGAL DESCRIPTION:

TO WIT A PARCEL OF LAND LOCATED IN THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 30, TOWNSHIP 13 SOUTH, RANGE 68 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY EL PASO, STATE OF COLORADO DESCRIBED AS FOLLOWS:  
BEGINNING AT PLS MONUMENT 28685 IN THE SOUTHWEST CORNER OF LOT 2, AMENDED GREEN MOUNTAIN FALLS FIRE STATION SUBDIVISION:

- (1) THENCE SOUTH 77°55'01" EAST, A DISTANCE OF 284.87 FEET;
- (2) THENCE NORTH 00°58'06" EAST, A DISTANCE OF 260.58 FEET;
- (3) THENCE NORTH 51°54'57" WEST, A DISTANCE OF 216.33 FEET;
- (4) THENCE SOUTH 82°10'54" WEST, A DISTANCE OF 120.25 FEET;
- (5) THENCE SOUTH 81°59'59" WEST, A DISTANCE OF 177.24 FEET;
- (6) THENCE SOUTH 08°00'33" EAST, A DISTANCE OF 85.96 FEET;
- (7) THENCE SOUTH 30°35'18" WEST, A DISTANCE OF 62.03 FEET;
- (8) THENCE NORTH 62°19'11" WEST, A DISTANCE OF 110.52 FEET;
- (9) THENCE SOUTH 08°01'00" WEST, A DISTANCE OF 143.99 FEET;
- (10) THENCE ALONG THE ARC OF A NON-TANGENT CURVE TO THE RIGHT HAVING A CENTRAL ANGLE OF 00°20'03", A RADIUS OF 677.53' FEET, AN ARCH LENGTH OF 3.95 FEET AND A CHORD THAT BEARS SOUTH 07°22'46" EAST A DISTANCE OF 3.95 FEET;
- (11) THENCE SOUTH 77°55'33" EAST, A DISTANCE OF 285.15 FEET TO THE POINT OF BEGINNING; CONTAINING 3.569 ACRES +/-

IN WITNESS WHEREOF:

THE AFOREMENTIONED GREEN MOUNTAIN FALLS - CHIPITA PARK FIRE PROTECTION DISTRICT HAS EXECUTED THIS INSTRUMENT THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2018

\_\_\_\_\_  
RICHARD BOWMAN, BOARD PRESIDENT  
GREEN MOUNTAIN FALLS - CHIPITA PARK FIRE PROTECTION DISTRICT

ATTEST:

\_\_\_\_\_  
JEFF IDELMAN, BOARD SECRETARY  
GREEN MOUNTAIN FALLS - CHIPITA PARK FIRE PROTECTION DISTRICT

PLANNING COMMISSION APPROVAL:  
APPROVED BY THE PLANNING COMMISSION OF THE TOWN OF GREEN MOUNTAIN FALLS, COLORADO, THIS \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
CHAIRMAN PLANNING COMMISSION  
ATTEST: \_\_\_\_\_  
TOWN CLERK

TOWN COUNCIL APPROVAL:  
THE UNDERSIGNED HEREBY APPROVE FOR FILING THE ACCOMPANYING PLAT OF THE "GREEN MOUNTAIN FALLS FIRE STATION SUBDIVISION".

\_\_\_\_\_  
MAYOR  
ATTEST: \_\_\_\_\_  
TOWN CLERK

RECORDING  
STATE OF COLORADO)  
COUNTY OF EL PASO) SS

I HEREBY CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD AT MY OFFICE AT \_\_\_\_ O'CLOCK \_\_\_\_M, THIS \_\_\_\_ DAY OF \_\_\_\_ 20\_\_\_\_ AND IS DULY RECORDED AT RECEPTION NO. \_\_\_\_\_ OF THE RECORDS OF EL PASO COUNTY, COLORADO.

BY: \_\_\_\_\_  
COUNTY CLERK AND RECORDER

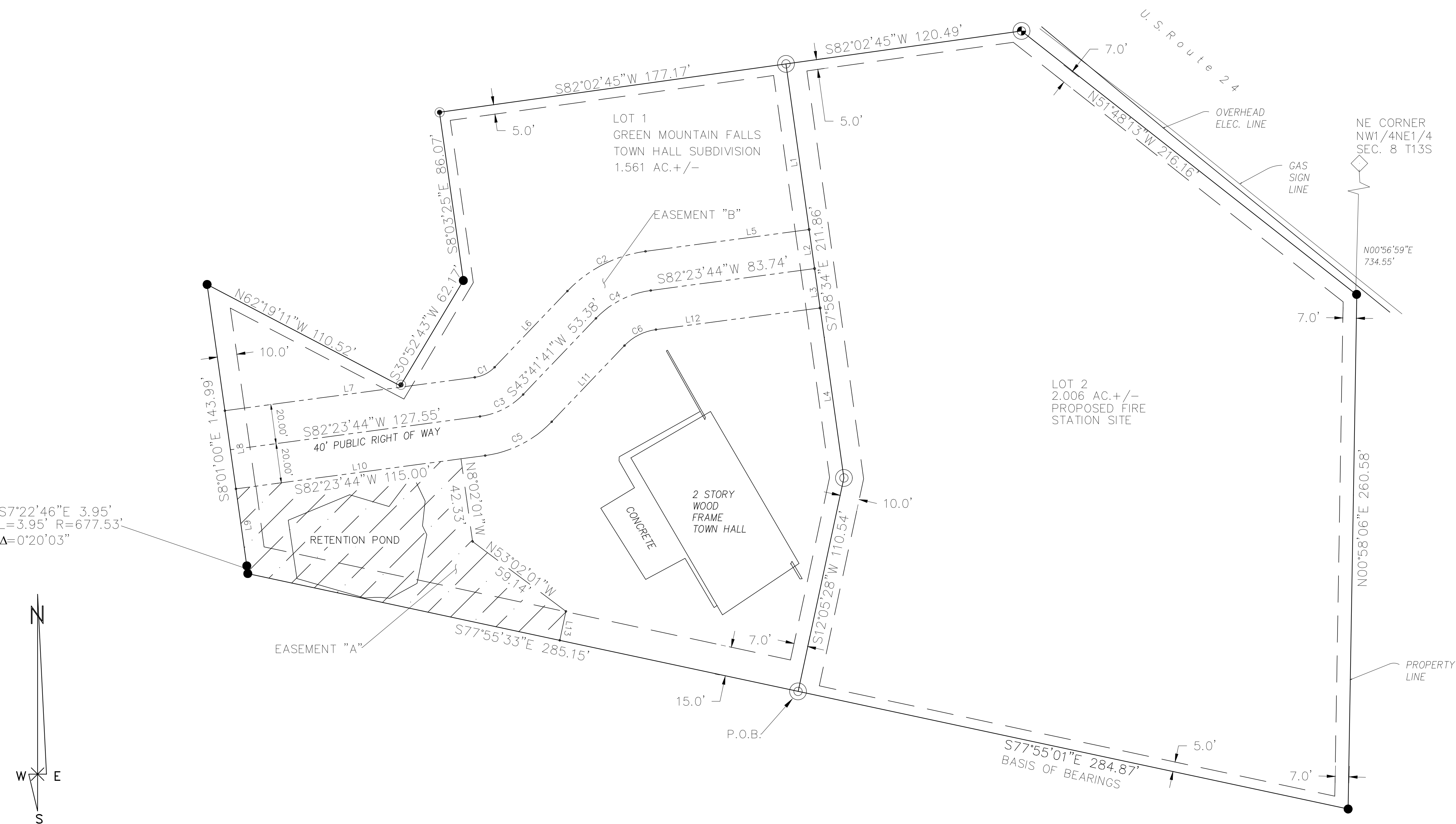
FEE: \_\_\_\_\_

SURCHARGE: \_\_\_\_\_



# AMENDED GREEN MOUNTAIN FALLS FIRE STATION SUBDIVISION

A REPLAT OF LOT 1, LOT 2A AND LOT 2B, GREEN MOUNTAIN FALLS TOWN HALL  
SUBDIVISION, RECEPTION NO 214713433, PART OF THE NW¼NE¼ SEC.8, TOWNSHIP 13  
SOUTH, RANGE 68 WEST, 6TH PM GREEN MOUNTAIN FALLS, EL PASO COUNTY, COLORADO  
SHEET 2 OF 2



## LEGEND:

- FOUND PLASTIC CAPPED REBAR STAMPED PLS 26965, APPARENT ORIGINAL MONUMENT
- ⊙ FOUND ALUMINUM CAPPED REBAR STAMPED PLS 28658, APPARENT ORIGINAL MONUMNET
- ⊕ FOUND 1/2" REBAR, APPARENT ORIGINAL MONUMENT
- ⦿ SET ALUMINUM CAPPED, 1/2" REBAR STAMPED PLS 25971
- ◇ FOUND ALUMINUM CAPPED REBAR, ILLEGIBLE, POSITIONED AS PER MONUMENT RECORDS

CURVE TABLE				
CURVE	LENGTH	RADIUS	BEARING	CHORD
C1	11.48	17.00	N63°02'43"E	11.27
C2	45.26	67.00	N63°02'43"E	44.40
C3	24.99	37.00	N63°02'43"E	24.52
C4	31.75	47.00	N63°02'43"E	31.15
C5	38.50	57.00	N63°02'43"E	37.77
C6	18.24	27.00	N63°02'43"E	17.89

LINE TABLE		
LINE	LENGTH	BEARING
L1	84.73	S07°58'34"E
L2	20.00	S07°58'34"E
L3	20.14	S07°58'34"E
L4	87.00	S07°58'34"E
L5	83.61	S82°23'44"W
L6	53.38	S43°41'41"W
L7	127.70	S82°23'44"W
L8	40.00	S08°01'25"E
L9	39.41	S08°01'00"E
L10	115.01	N82°23'44"E
L11	53.38	N43°41'41"E
L12	83.87	N82°29'26"E
L13	15.01	S12°04'29"W

BASIS OF BEARINGS: Assumed  
S77°55'00"E, along the south boundary  
of Lot 2, monumented as shown.



## Review Memorandum

**To:** Jason Wells, Town Manager, Town of Green Mountain Falls  
**From:** Richard Wray, Kiowa Engineering Corporation, Inc.  
**Date:** October 18, 2018  
**Project:** Grading and Erosion Control Plan, Green Mountain Falls/Chippeta Park Fire Protection District, Central Fire Station, 2 Carsell Way, Green Mountain Falls, Colorado (Kiowa Project 18060)  
**Subject:** Review Comments

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At the request of the Green Mountain Falls Town Manager, Kiowa has completed a review of the Grading and Erosion Control Plan (GECP), for the proposed Central Fire Station to be located at 2 Carsell Way in Green Mountain Falls. The requirement for a GECP is summarized in the Town's Municipal Code. Specifically, Kiowa references sections 17.83, 17.85 and 17.92 of the Municipal Code. These sections describe the types of land disturbing activities that require a GECP to be prepared and submitted to the Town for review and approval. The site development activities proposed at the above referenced address will exceed the minimum land disturbing activities as described in Sections 17.83 and 17.92 and therefore the preparation of a GECP for the project is required.

Kiowa has reviewed the Drainage Report and Grading and Erosion Control Plans (GECP) for the project that were prepared by F & D International, LLC. These documents show the extent of the site grading and building activities proposed at the site. A new 14,000 square foot fire station is proposed along with attendant access drives, parking and landscaping. Based upon the GECP, grading will not extend outside of the property. Kiowa has not provided comments regarding work within the public right-of-way. Requirements for work within a public right-of-way is described in the Municipal Code.

Drainage report and GECP review comments follow. The GECP subject to this review included sheets C3.0-3.3 and C5.0-5.4 of the design drawings.

1. Limits of grading and disturbance should be added to all GECP plan sheets.
2. Legend should be added to GECP that shows and names symbols such as silt fence, limits of disturbance etc.
3. Area of disturbance should be added to notes on sheet C5.0.
4. Hydrologic soil types for the site should be added to sheet C5.0.

5. Pre- and post-site condition runoff coefficients should be added to sheet C5.0.
6. Reference to geotechnical report prepared for the project should be added to the notes on sheet C3.0.
7. Construction schedule for initial disturbance and final revegetation should be added to sheet C5.0.
8. Fountain Creek should be noted as the tributary watershed should be added to the notes on sheet C5.0 and within the text of the drainage report.
9. Owner's statement in accordance with Section 17.92.d should be added to sheet C3.0 of the GECP for signature by the Owner upon approval of the GECP by the Town.
10. Engineer's and Owner's statement should be added to the drainage report. Sample has been attached.

It is Kiowa's opinion that the GECP design plans and drainage report as prepared and amended with the following comments will meet the general intent of the Town's municipal code. If clarification is needed regarding any of the above review comments, please do not hesitate to contact Kiowa.

**TOWN OF GREEN MOUNTAIN FALLS  
PLANNING COMMISSION MEETING  
Tuesday, October 9, 2018 – 6:30 P.M.**

**MEETING MINUTES**

**PC Members Present**

Mayor Jane Newberry  
Vice Chairman Dick Bratton  
Commissioner Greg Williamson  
Chairman Eric Caldwell

**PC Members Absent**

Commissioner Gerald Irwin  
Commissioner Rocco Blasi

**Secretary**

Katharine Guthrie

---

**1. Call to Order/Roll Call**

Chairman Eric Caldwell called the meeting to order at 6:36 pm.

**2. Additions, Deletions, or Corrections to the Agenda**

M/S Caldwell/Bratton

**Motion:** Move to approve as submitted with deletion of Item 5.

**Vote:** Motion carried. 2:0 (Williamson abstained)

**3. Approve Minutes of September 25, 2018**

M/S Bratton/Caldwell

**Motion:** Move to approve minutes as submitted.

**Vote:** Motion carried. All yea 2:0

**4. Public Input**

None

**5. New Business**

None

**6. Old Business**

a. New Fire Station—Gary Florence

Review of Grading Plan, Drainage Report, Erosion Control Plan, Final Plat

**M/S: Caldwell/Williamson**

**Motion:** Move to approve the grading plan, drainage report and erosion control plan as submitted with the condition that it is also approved by Kiowa before construction starts.

**Vote:** Motion carries. All yea.

**Resolution:** All applicable fees to be paid in full.

## Page 2 –Planning Commission Minutes 10/9/2018

- b. 2019 Capital Improvements Program (CIP)  
Prioritize Projects for 2019 Town Budget Consideration
  - 1. Delete—Construct New Fire Station (listed twice), and Flood Control: Bank stabilization behind motel (FCWFCD Project #27)
  - 2. 2019 Stilling Basins (roadway drainage improvements) PPRTA “A” List
  - 3. 2021 Flood Control-Detention Pond on Crystal Creek, and Flood Control-Replace Bridge-Hotel Street.
- c. Frequently Asked Questions (FAQ) for Town Website  
GMF Submittal requirements for Building Permits and other Permits  
**M/S:** Bratton/Caldwell  
**Motion:** Move that we table Item 6.c Frequently Asked Questions.  
**Vote:** Motion carried. All yea.
- d. GMF Comprehensive Plan—Megan Moore, Logan Simpson Company
  - 1. Overall Process and Schedule (24:00)
    - Task I: Foundation May-September 2018
      - Community Engagement Plan
      - Plan Branding
      - Stakeholder Interviews and Town Tour
      - Plan Audit
      - Town Meeting #1
      - Community Assessment
      - On-Site Validation of Existing Data
    - Task II: Vision and Opportunities October-December 2018
      - Visioning Outreach and Mapping
      - Vision Document
      - Opportunities Analysis
      - Illustrative Land Use Plan
      - Framework Document
    - Task III: Plan Development and Approval January-June 2019
      - Preliminary Plan
      - Strategic Action Plan
      - Adaptive Management and Monitoring Program
      - Public Review of Draft Plan
      - Final Plan and Formal Adoption
  - 2. Preliminary Vision and Supporting Themes
    - “What Do We Love About GMF?”
    - Our Roots (Community Character)
      - “A rustic town that is celebrated for our rich generational history, small community charm, and immediate access to an unmatched trail system.”
    - Includes: Families, downtown, lake, gazebo, arts, “remote” location, but 20 minutes from the city, quiet



### **Page 3 –Planning Commission Minutes 10/9/2018**

#### **Our Health (Environmental Quality)**

“A town that proactively preserves and enhances the aspects of our narrow mountain valley environment, providing residents with a scenic, low-stress lifestyle.”

Includes: Water quality, fire mitigation, flood mitigation, wildlife, scenery, quiet, air quality

#### **Our Economy ((Economic Sustainability)**

“A town that promotes economic sustainability through continues support of our home-grown businesses, with expansion of strategic, small-scale, daily services that contributes to our character and resilience.”

Includes: Retail, convenience, wayfinding, parking

#### **Our Development (Growth and Land Use)**

“An appropriately-sized, safe community, home to a mix of residential, commercial, recreational, and cultural uses that together, generate a high quality of life.”

Includes: Annexation, land use mix and allocation, growth areas. Development location and character, safety

#### **Our Infrastructure (Community Services and Facilities)**

“A town with an efficient, consistent level of public services, with a focus on neighbor helping neighbor.”

Includes: Road maintenance, emergency services, cell service improvements, sewer system investigation, coordination with Colorado Springs Utilities, El Paso and Teller Counties

#### **3. Preliminary Conditions Assessment**

#### **4. Citizen Survey—Coordination and Logistics**

Online: [www.plangmf.com](http://www.plangmf.com)

[www.facebook.com/plangreenmountianfalls](https://www.facebook.com/plangreenmountianfalls)

[www.colorado.gov/greenmountainfalls](http://www.colorado.gov/greenmountainfalls) (coming soon)

TBC: Post to the GMF, Colorado Facebook page

Place hard copies at the post office

Email link and hard copies directly to folks that have signed up previously and on the website

#### **5. Next Steps**

a. Final Vision

b. Opportunities

**Adjourned: 7:54**

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**Eric Caldwell-Chairman**

**ATTEST:**

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**Katharine Guthrie-Secretary**

**TOWN OF GREEN MOUNTAIN FALLS**

**ORDINANCE NO. 2018-12**

**AN ORDINANCE REPEALING AND REENACTING ARTICLE XV OF CHAPTER 10 OF THE GREEN MOUNTAIN FALLS MUNICIPAL CODE REGARDING FIRE RESTRICTIONS**

WHEREAS, under C.R.S. § 31-15-401(q), the Town has the general police power to "control and limit fires, including but not limited to the prohibition, banning, restriction, or other regulation of fires and the designation of places where fires are permitted, restricted, or prohibited";

WHEREAS, the Town wishes to establish the various stages of Town fire restrictions depending on the level of fire danger and provide for the authority and method of declaring such restrictions;

WHEREAS, the Town wishes to clarify the activities that are prohibited and allowed under each Town fire restriction stage; and

WHEREAS, for these purposes, the Green Mountain Falls Municipal Code is amended as follows.

**NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF TRUSTEES OF THE TOWN OF GREEN MOUNTAIN FALLS, COLORADO:**

Section 1. Article XV, Chapter 10, of the Green Mountain Falls Municipal Code is repealed in its entirety and reenacted to read as follows:

**ARTICLE XV - Fire Restrictions**

**Sec. 10-325. Purpose.**

The purpose of this Article is to preserve and protect the public health, safety, and welfare of the citizens of the Town of Green Mountain Falls, Colorado, and surrounding areas by restricting open fires and open burning within the Town of Green Mountain Falls in order to prevent forest and grass fires, which, as a result of atmospheric conditions including lack of moisture and other local conditions, pose a significant danger to the Town and its citizens.

**Sec. 10-326. Interpretation.**

This Article shall be so interpreted and construed as to effectuate its general purpose to preserve and protect the public health, safety, and welfare of the citizens of the Town of Green Mountain Falls, Colorado, by restricting open fires and open burning to prevent forest and grass fires.

**Sec. 10-327. Authority.**

The restrictions imposed by this Article shall take effect upon the issuance of an administrative order executed by the Town Manager or his or her designee, in consultation with the Fire Chief and the Fire Restriction Evaluation Guidelines, and shall remain in effect until rescinded by similar order. The authority granted by this Article is ongoing, and administrative orders may be issued from time to time as conditions warrant.

#### **Sec. 10-328. Definitions.**

As used in this Article, unless the context otherwise requires:

- (a) *Bonfire* means an outdoor fire burning material other than rubbish or debris in which the fuel area exceeds the dimensions of a recreational fire, but which are no greater than eight (8) feet in diameter and four (4) feet in height, and which is located fifty (50) feet or more from any structure or combustible material.
- (b) *Burning in the performance of an official duty* means engaging in any activity prohibited under this chapter by any Federal, State, or local officer, or member of a rescue or firefighting force organized, employed or contracted by a Federal, State or local firefighting, military, or police protection service where engaging in such activity is required for the performance of such duties.
- (c) *Fire Restriction Evaluation Guidelines* means that set of evaluation criteria currently in use by Federal, State and local fire suppression/management agencies for monitoring fuel moistures, fire danger class, current impacts on suppression resources, current fire cause types, fire weather forecasts, and other indicators of predicted fire danger.
- (d) *Illegal fireworks* means any composition or device, regardless of the mass of the explosive composition, designed to produce audible or visual effects by combustion that is illegal under State of Colorado law and includes without limitation: firecrackers, rockets, bottle rockets, roman candles, cherry bombs, mortars, and other similar items such as M-80s.
- (e) *Open fire or open burning* means any outdoor fire that does not meet the requirements of a recreational fire or bonfire where any material is burned on the ground or in an open receptacle other than a furnace, incinerator, or other equipment connected to a stack or chimney, and includes without limitation the burning of agricultural land, silvicultural lands, rangeland, wildland, ditches, trash, or debris for any purpose including without limitation wildfire risk reduction, pest control or prevention, crop management, or wildlife management.
- (f) *Permissible fireworks* means small firework devices containing not more than fifty (50) milligrams of explosive composition that are designed to produce audible or visual effects by combustion and which

are non-explosive and not intended to leave the ground and includes fountains, ground spinners, illuminating torches, dipped sticks and sparklers, and other similar items.

- (g) *Recreational fire* means an outdoor fire burning material other than rubbish or debris with a total fuel area of three (3) feet or less in diameter and two (2) feet or less in height, which is located twenty-five (25) feet or more from any structure or combustible material.

#### **Sec. 10-329. Unlawful acts.**

During a Stage I, Stage II, or Stage III restriction, it shall be unlawful for any person to engage in acts prohibited by this Article within the municipal limits of the Town, including public, private, state and federal lands, while the restriction is in effect. The following table summarizes the prohibitions in place set forth by Sections 10-330 to 10-332 of this Article:

	<b>None</b>	<b>Stage I</b>	<b>Stage II</b>	<b>Stage III</b>
Burning of trash	Not Allowed	Not Allowed	Not Allowed	Not Allowed
Emergency flares	Not Allowed	Not Allowed	Not Allowed	Not Allowed
Illegal Fireworks	Not Allowed	Not Allowed	Not Allowed	Not Allowed
Permissible Fireworks	Allowed	Allowed	Not Allowed	Not Allowed
Commercial pyrotechnics	Permit	Permit	Permit	Not Allowed
Bonfires	Permit	Not Allowed	Not Allowed	Not Allowed
Open Burning	Permit	Not Allowed	Not Allowed	Not Allowed
Recreational Fires	Allowed	Allowed	Not Allowed	Not Allowed
Model rockets	Allowed	Not Allowed	Not Allowed	Not Allowed
Outdoor charcoal grills	Allowed	Allowed	Not Allowed	Not Allowed
Smoking outdoors	Allowed	Allowed	Not Allowed	Not Allowed
Outdoor welding, gas torches, burning rods	Allowed	Allowed	Not Allowed	Not Allowed
Fires contained in liquid-fueled or gas-fueled stoves and grills	Allowed	Allowed	Allowed	Not Allowed
Indoor open fireplaces and wood-burning stoves	Allowed	Allowed	Allowed	Not Allowed
Chainsaws with spark arrestors	Allowed	Allowed	Allowed	Not Allowed
Smoking indoors or in enclosed vehicles	Allowed	Allowed	Allowed	Allowed
Burning in the performance of an official duty	Allowed	Allowed	Allowed	Allowed

#### **Sec. 10-330. Stage I restrictions.**

- (1) Whether or not such activity is permitted or prohibited elsewhere in this Code, the declaration of a Stage I fire restriction shall prohibit:
  - (a) Burning of garbage and waste material.
  - (b) Use of emergency flares or roadside fusees.
  - (c) Use of illegal fireworks.
  - (d) Burning of bonfires.
  - (e) Open burning.
  - (f) Launching of model rockets.
- (2) The declaration of a Stage I fire restriction shall allow commercial pyrotechnics by permit only, such permit to be issued in accordance with Section 10-296 of this Code.
- (3) Unless prohibited elsewhere in this Code, the declaration of a Stage I fire restriction shall allow:
  - (a) Use of permissible fireworks.
  - (b) Burning of recreational fires.
  - (c) Use of outdoor charcoal grills.
  - (d) Smoking indoors, outdoors, or within an enclosed vehicle.
  - (e) Outdoor welding, use of gas torches, or use of burning rods.
  - (f) Use of liquid or gas-fueled stoves and grills.
  - (g) Use of indoor open fireplaces and indoor wood-burning stoves.
  - (h) Use of chainsaws, if accompanied by an appropriate spark arrestor.
  - (i) Burning in the performance of an official duty.

**Sec. 10-331. Stage II restrictions.**

- (1) Whether or not such activity is permitted or prohibited elsewhere in this Code, the declaration of a Stage II fire restriction shall prohibit:
  - (a) Burning of garbage and waste material.
  - (b) Use of emergency flares or roadside fusees.
  - (c) Use of illegal fireworks.
  - (d) Use of permissible fireworks.
  - (e) Burning of bonfires.
  - (f) Open burning.
  - (g) Burning of recreational fires.
  - (h) Launching of model rockets.
  - (i) Use of outdoor charcoal grills.
  - (j) Smoking outdoors except within a developed recreation site or while stopped in an area at least three (3) feet in diameter that is barren or cleared of all flammable materials.
  - (k) Outdoor welding, use of gas torches, or use of burning rods.
- (2) The declaration of a Stage II fire restriction shall allow commercial pyrotechnics by permit only, such permit to be issued in accordance with Section 10-296 of this Code.
- (3) Unless prohibited elsewhere in this Code, the declaration of a Stage II

fire restriction shall allow:

- (a) Use of liquid or gas-fueled stoves and grills.
- (b) Use of indoor open fireplaces and indoor wood-burning stoves.
- (c) Use of chainsaws, if accompanied by an appropriate spark arrestor.
- (d) Smoking indoors or within enclosed vehicles.
- (e) Smoking outdoors if within a developed recreation site or while stopped in an area at least three (3) feet in diameter that is barren or cleared of all flammable materials.
- (f) Burning in the performance of an official duty.

**Sec. 10-332. Stage III restrictions.**

- (1) Whether or not such activity is permitted or prohibited elsewhere in this Code, the declaration of a Stage III fire restriction shall prohibit:
  - (a) Burning of garbage and waste material.
  - (b) Use of emergency flares or roadside fusees.
  - (c) Use of illegal fireworks.
  - (d) Use of permissible fireworks.
  - (e) Commercial pyrotechnics.
  - (f) Burning of bonfires.
  - (g) Open burning.
  - (h) Burning of recreational fires.
  - (i) Launching of model rockets.
  - (j) Use of outdoor charcoal grills.
  - (k) Smoking outdoors except within a developed recreation site or while stopped in an area at least three (3) feet in diameter that is barren or cleared of all flammable materials.
  - (l) Outdoor welding, use of gas torches, or use of burning rods.
  - (m) Use of liquid or gas-fueled stoves and grills.
  - (n) Use of indoor open fireplaces and indoor wood-burning stoves.
  - (o) Use of chainsaws, even if accompanied by a spark arrestor.
- (2) Unless prohibited elsewhere in this Code, the declaration of a Stage III fire restriction shall allow:
  - (a) Smoking indoors or within enclosed vehicles.
  - (b) Smoking outdoors if within a developed recreation site or while stopped in an area at least three (3) feet in diameter that is barren or cleared of all flammable materials.
  - (c) Burning in the performance of an official duty.

**Sec. 10-333. Prohibition on use of emergency flares and roadside fusees.**

The use of emergency flares or roadside fusees is prohibited at all times.

**Sec. 10-334. Requirements when and where outdoor fires are permitted.**

When and where bonfires, recreational fires, or open burning are permitted, the following requirements shall be in place:

- (1) A person must be physically present and continuously monitoring and attending to the outdoor fire at all times to ensure it remains safe and in control.
- (2) Attendees of an outdoor fire must have a functioning and suitable extinguisher nearby such as a garden hose or dry chemical extinguisher.
- (3) The outdoor fire must be the requisite distance away from structures or combustible materials and must not at any point move any closer to the structure than the stated distance. Such requisite distance shall be:
  - (a) Twenty-five (25) feet for recreational fires.
  - (b) Fifty (50) feet for bonfires and open fires.

**Sec. 10-335. Enforcement.**

This Article shall be enforced by the Green Mountain Falls Town Marshal or his or her deputies, including thereby the administering agencies of the State and Federal lands located therein, and they shall have authority to order any person to immediately cease any violation of this Ordinance. This authority shall include, but not be limited to, the right to issue a penalty assessment notice and the right to take such person or persons into temporary custody. Any exception to the meaning, terms, or enforcement of this Article shall be granted only by the administering agency, and only if the proposed action is deemed by the Green Mountain Falls Town Marshal to be safe or mitigable.

**Sec. 10-336. Penalties.**

Violation of this Article shall be a misdemeanor under Green Mountain Falls Municipal Code. The penalties for violation of this adopted Code are as set forth in a resolution or subsequent modifications thereof.

**Sec. 10-337-340. Reserved.**

Section 2. Section 97, Article IV, Chapter 11, of the Green Mountain Falls Municipal Code is amended to read as follows:

**Sec. 11-97. Fires prohibited.**

...

- (b) It shall be unlawful to build fires in any place in or on park land during periods that the U.S. Forest Service rates the fire danger as very high or extreme for the Ute Pass area or when fire restrictions have been declared by the Fire District or County Fire Marshal, or when fire restrictions have been implemented by the town pursuant to Article XV, Chapter 10 of this

Code.

Section 3.     Safety Clause.     The Board of Trustees hereby finds, determines and declares that this Ordinance is promulgated under the general police power of the Town of Green Mountain Falls, that it is promulgated for the health, safety and welfare of the public and that this Ordinance is necessary for the preservation of health and safety and for the protection of public convenience and welfare. The Board of Trustees further determines that this Ordinance bears a rational relation to the proper legislative object sought to be attained.

Section 4.     Severability.     If any clause, sentence, paragraph, or part of this Ordinance or the application thereof to any person or circumstances shall for any reason be adjudged by a court of competent jurisdiction invalid, such judgment shall not affect application to other persons or circumstances.

Section 5.     Effective Date.     This Ordinance shall be effective thirty (30) days after passage.

INTRODUCED AND ORDERED PUBLISHED the 18 day of December, 2018, at the Green Mountain Falls Town Hall, 10615 Green Mountain Falls Road, Green Mountain Falls, Colorado.

ADOPTED AND ORDERED PUBLISHED the \_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Jane Newberry, Mayor

ATTEST:

\_\_\_\_\_  
Laura Kotewa, Town Clerk

Published in the Pike Peaks Courier, \_\_\_\_\_ 2019.



# Green Mountain Falls Fire Restrictions<sup>1</sup>

	Fire Restrictions			
	None	Stage I	Stage II	Stage III
Burning of Trash	Not Allowed	Not Allowed	Not Allowed	Not Allowed
Emergency Flares including Roadside Fusees	Not Allowed	Not Allowed	Not Allowed	Not Allowed
Illegal Fireworks <sup>2</sup>	Not Allowed	Not Allowed	Not Allowed	Not Allowed
Permissible Fireworks <sup>3</sup>	Allowed	Allowed	Not Allowed	Not Allowed
Commercial Pyrotechnics	Permit	Permit	Permit	Not Allowed
Bonfires <sup>4</sup>	Permit	Not Allowed	Not Allowed	Not Allowed
Open Burning <sup>5</sup>	Permit	Not Allowed	Not Allowed	Not Allowed
Recreational Fires <sup>6</sup>	Allowed	Allowed	Not Allowed	Not Allowed
Model Rockets	Allowed	Not Allowed	Not Allowed	Not Allowed
Outdoor Charcoal Grills	Allowed	Allowed	Not Allowed	Not Allowed
Smoking Outdoors <sup>7</sup>	Allowed	Allowed	Not Allowed	Not Allowed
Outdoor Welding, Gas Torches, Burning Rods	Allowed	Allowed	Not Allowed	Not Allowed
Fires contained within Liquid-Fueled or Gas-Fueled Stoves and Grills	Allowed	Allowed	Allowed	Not Allowed
Indoor Open Fireplaces and Wood-Burning Stoves	Allowed	Allowed	Allowed	Not Allowed
Chainsaws with Spark Arrestors	Allowed	Allowed	Allowed	Not Allowed
Smoking Indoors or in Enclosed Vehicles	Allowed	Allowed	Allowed	Allowed
Burning in the Performance of an Official Duty <sup>8</sup>	Allowed	Allowed	Allowed	Allowed

<sup>1</sup> This publication is intended as a guide only. Article XV, Chapter 10, of The Green Mountain Falls Municipal Code should be consulted before engaging in any combustive activity. Any further interpretation or exemptions to either the meaning of terms or the enforcement of this Chapter of the Code shall be granted only by the Green Mountain Falls Town Marshal, and only if the proposed action is deemed to be safe and able to be mitigated in the Marshal's sole discretion based on best fire safety practices. Sec. 10-335.

<sup>2</sup> Fireworks that are always illegal to use in Colorado and the Town (except for permitted public and professional displays) are: firecrackers, rockets, bottle rockets, roman candles, cherry bombs, mortars and similar items, such as M-80s. Sec. 10-328(d).

<sup>3</sup> Fireworks that are permissible in Colorado and the Town include fireworks that are non-explosive and are not intended to leave the ground, such as fountains, ground spinners, illuminating torches, dipped sticks, and sparklers. Sec. 10-328(f).

<sup>4</sup> A Bonfire is an outdoor fire burning material other than rubbish or debris with a total fuel area greater than three (3) feet but less than eight (8) feet in diameter and greater than two (2) feet but less than four (4) feet in height. Bonfires must be permitted and located at all times fifty (50) feet or more from any structure or combustible material. Sec. 10-328(a).

<sup>5</sup> Open Burning includes all outdoor fires that are not Bonfires or Recreational Fires where material is burned on the ground or in an open receptacle, including the burning of land. Sec. 10-328(e).

<sup>6</sup> A Recreational Fire is an outdoor fire burning material other than rubbish or debris with a total fuel area of three (3) feet or less in diameter and two (2) feet or less in height, which is at all times located twenty-five (25) feet or more from any structure or combustible material. Sec. 10-328(g).

<sup>7</sup> When prohibited, smoking outdoors shall be allowed only if within a developed recreation site or while stopped in an area at least three (3) feet in diameter that is barren or cleared of all flammable materials. Sec. 10-331 and 10-332.

<sup>8</sup> Federal, State, or local officers or member of a rescue or firefighting force organized, employed or contracted by a Federal, State or local firefighting, military, or police protection service in the performance of an official duty.

**VIOLATION AND MISUSE OF FIRE:** In addition to potential arson charges, person(s) in violation of the Code may be subject to a fine of \$1,000, or as set forth by in a resolution or subsequent modification of the Code which sentence may include an increased fine or jail sentence, or both.



# Town of Green Mountain Falls

## Memorandum

To: Mayor and Board of Trustees  
From: Jason S. Wells, Interim Town Manager  
Re: Management Report  
Date: January 15, 2019

### 1) Flood Response

#### a) Outside Funding Eligibility/Disaster Declaration

##### i) Outside Funding Sources

(1) Department of Local Affairs – \$139,730 awarded to address below project needs

(a) 50% local match decreased to 25% upon request due to proof of financial hardship

(b) Next step – awaiting delivery of executed grant contract

(2) NRCS Emergency Watershed Protection Program

(a) Damage Survey Report (DSR) Completed – estimated \$400K (appx.) in channel stabilization needs

(b) Private property eligibility

(c) 25% local match required – Appx. \$100K

(d) Next Steps -- Waiting to hear about potential award

#### b) Priority Projects

i) Midland Culvert Replacement - \$51,715

(1) Next Steps – Design/Permitting/Construction Bid Solicitation – Awaiting Wilson & Co. proposal

ii) Maple St. Bridge Repair - \$35,184 – Due to Condition, Outreach to County to Possibility Utilize On-Call List

iii) Olathe/Belvidere Sediment Removal - \$26,413

(1) Possible Coordination w/ Belvidere Ave Resurfacing Project in Spring, 2019

iv) El Paso Trail Road Rehabilitation - \$40,711

v) Iona Ave Culvert Replacement - \$32,282

### 2) Departmental Info

#### a) Town Clerk

i) See included comprehensive report

ii) Items of Mutual Clerk/Mgr. Interest

(1) Revision of Chart of Accounts

#### b) Marshall's Office

i) Verbal report to be provided

#### c) Public Works

i) Parks

(1) Water Service – CSU Regulatory Compliance/Backflow Preventers \*\* On Hold Due to Staffing/Funding

(2) Restrooms – 2019 Capital Reserve Priority

ii) Road Maintenance

(a) Snow Removal Operations – New SOP Posted to Website/Circulated

(b) Retention of Part-Time Grader/Snow Plow Operator/Equipment Maintenance Lead

(c) Implementation of Defined Zone-Based Maintenance Protocols

## Management Report

January 27, 2017

- (d) Researching Outsource Options for Culvert Clean-Outs
- iii) Belvidere Ave Improvement Project – deferred to spring, 2019 per County decision
- iv) Lake/Park Improvements
  - (1) Memorial Park Bench Policy?
- d) Pool
- e) Planning/Land Use
  - i) Right-of-Way Excavation Permitting (Spruce Ave./Pine Street gas line break)
  - ii) Establishment of Staff Planning Function
    - (1) Americorps VISTA Program Application – Proposed scope being reviewed at state Americorps office
    - (2) PPACG Technical Assistance
  - iii) Short-Term Rental Operations – Implementation of New Licensing Structure
    - (1) Status Update – Reports of Booking Application Conflicts with Flat Tax Structure
  - iv) Economic Development
    - (a) Fiber Optics/Broadband – Oct. 23<sup>rd</sup> meeting w/ Fire Dpt. & HR Green
    - (b) Follow Through on EPC Enterprise Zone Designation - \*\* On Hold
  - v) Request to Elevate Portion of Iona Rd. - \*\* On Hold
  - vi) New Fire Station Construction
    - (1) Drainage Plan – Kiowa Review Complete
    - (2) Street Paving
- f) Human Resources
  - i) Town Clerk Coordination w/ Town Manager on Comprehensive Job Description Revisions
  - ii) Needed Personnel Policies (in addition to recently-adopted Employee Handbook)
    - (1) Retirement contribution policy – Drafted/Implemented
    - (2) Compensation policies
    - (3) Mobile device usage policy – Drafted/Implemented
    - (4) Cell phone stipend policy
    - (5) Vehicle use policy
  - iii) Volunteer Utilization Policies Needed - \*\* On Hold
- g) Finance
  - i) Financial Control Mechanisms – Improvements Ongoing
  - ii) Budget
    - (1) External Entity Reporting
      - (a) CTF Reporting
      - (b) HUTF Reporting – Contingent on 2017 Financials (see below)
  - iii) Auditing
    - (1) 2017 Audit Status – Progress Continuing/Nearing Completion
- h) Information Technology
  - i) Website
    - (1) New (state-hosted) Site Launched; Content Being Constantly Increased/Managed
    - (2) Old (county-hosted) Site Now Archived per State Law
  - ii) Hardware assessment/capital planning/desktop support
    - (1) Priority Hardware/Services Procured w/ Remaining 2018 Budget Allowances

## 3) Grants

## Management Report

January 27, 2017

- a) Q3 Requests for Reimbursement Completed
    - i) DoLA Town Manager Grant - \$56,161.62 remaining as of Oct. 1 (of original \$125K award)
    - ii) Comp Plan Update Grant –
      - (1) DoLA Grant - \$34,977.50 remaining as of Oct. 1 (of original \$50K award)
      - (2) HGMFF – Reimbursement Requests for remaining 50 percent submitted; progress report needed
  - b) Kirkpatrick Foundation Sidewalk Replacement Grant
  - c) Fishing is Fun Automated Lake Valve Grant - - \*\* On Hold
    - (1) Grant Administration Needs
    - (2) Project Management Needs
  - d) CDBG - Lake Access Grant - \$7,500 – ADA Fishing Pier \*\* On Hold
    - i) Notice to Proceed Issued on 9/5
    - ii) Project Management/Grant Administration Needs
- 4) Intergovernmental
- a) El Paso County – Disaster Recovery Plan participation 1/30 meeting
  - b) Pike’s Peak Area Council of Governments
    - i) DoLA Mini-Grant for GIS Needs
    - ii) Council Seeking Local Representative to Support 2020 Census Effort
  - c) Colorado Springs Utilities
    - i) Coordination w/ Utility Regarding Street Light Billing
      - (1) Public Input
      - (2) Field Inventory
  - d) Green Mountain Falls/Chipita Park Fire Department
    - i) Need to Clarify Process for Formal Declaration (and Rescinding) of Fire Restrictions – See separate ordinance
- 5) Insurance Administration
- a) CIRSA
    - i) Claims
      - (1) June 24<sup>th</sup> Hail Damage
        - (a) Follow-Up with Roofing Companies on 12/12, 12/19 and 1/9
        - (b) Adjuster Estimate - \$41,899 (\$33,269 received less depreciation)
        - (c) Work to Commence in Spring
- 6) Emergency Management
- a) Coordination w/ CUSP re: Fire Mitigation Efforts Underway
  - b) El Paso County Disaster Recovery Planning – 1/30 Meeting
- 7) Legal
- a) Ordinance Establishing Utility Co-Location Option Requirement – Follow-up from City Attorney:
    - i) Citizen concerns re: potential impacts to private citizens. Ordinance provisions “would only arise when someone (almost always a utility) is doing that sort of work and the Town wanted to collocate. I’ve never heard of a private individual doing any boring or trenching work that would fall within this requirement. So, there is no impact on private property owners and residents.”
    - ii) Citizen concerns re: impacts to private properties: “if anybody wants to install improvements on private property, they would need to get an easement or license (or purchase the property) from the owner. The Town cannot give anyone permission to use private property without the consent of the private property owner. However, if a roadway has been in its location for an adequate period of time (18 years), the Town

## Management Report

January 27, 2017

may have a prescriptive easement for that road, plus any uses typically associated with the roadway. That might include the right to have utilities installed in that roadway. That could be a relatively complicated question depending on the specific facts. So, I can't say for certain whether a franchisee could install its utilities in a roadway that is outside of the right-of-way.

### b) Franchise Agreements/Assets Affixed to Abandoned Utility Poles

- i) CenturyLink – Established Contact with Director of Regulatory and Government Affairs Toward Resolution
- ii) Comcast – All Assets Removed as of 1/9 per Communication from J. Olds



***The City of Colorado Springs is looking for volunteers to serve on the Subcommittees of the Pikes Peak Area 2020 Census Complete Count Committee to promote the 2020 Census.***

***Purpose***

*The 2020 Census is a count of everyone residing in the United States on April 1, 2020. It has been mandated by the U.S. Constitution and occurs every 10 years. Population totals from the Census determine the appropriation of federally funded programs and effectively plan for the needs of the community.*

***Goal***

*The Pikes Peak Area 2020 Census Complete Count Committee is a volunteer committee established to increase awareness, educate, and motivate residents in the community to participate in the 2020 Census with the result of the best, most accurate, count in El Paso and Teller Counties.*

***Objective***

*The Pikes Peak Area 2020 Census Complete Count Committee will develop a work plan to draw on the successful partnerships and marketing efforts of its members in order to promote the 2020 Census in the Pikes Peak area. Through these established partnerships, the committee can help spread the word throughout local governments, community organizations, schools, and other venues, such as churches, synagogues, and mosques.*

***Roles and Responsibilities of Subcommittee Members***

- 1. Identify and provide strategic outreach efforts (organizations, events, activities, etc.).*
- 2. Communicate with people about the 2020 Census.*
- 3. Provide avenues for the Census information to be disseminated.*
- 4. Identify areas of concern and develop strategies to address them.*
- 5. Leverage existing resources.*

***Time Commitment***

- Approximately 1-2 hours monthly for scheduled meetings from September 2018 to June 2019.*
- Additional time will be added per month for outside forums and subcommittee meetings beginning June 2019-July 2020.*

*If you are interested in volunteering for a subcommittee of the Pikes Peak Area 2020 Census Complete Count Committee, please contact the Colorado Springs City Clerk's Office at [cityclerk@springsgov.com](mailto:cityclerk@springsgov.com) or call (719) 385-5103.*



## **Pikes Peak Area Complete Count Committee**

**Merv Bennett - Chair**

**Eric Phillips - Vice-Chair**

### Subcommittee Chairs and Co-Chairs

#### Business

Jonathan Liebert, BBB of Southern Colorado – Co-Chair  
Aikta Marcoulier, Colorado SBDC – Co-Chair

#### Media

Krithika Prashant, Media Relations – Co-Chair  
Lauren Hug, Hug Speaks – Co-Chair

#### Education

Dr. Lance Bolton, PPCC – Co-Chair  
Shawn Gullixson, District 11 Schools – Co-Chair

#### Health

Anne Cesare, UCHealth – Co-Chair  
Louie Larimer, Peak Vista – Co-Chair  
Merle Taylor, UCHealth – Co-Chair

#### Military

Rich Burchfield – Chair

#### Faith Groups

Larry Yonker, Springs Rescue Mission – Co-Chair  
Stu Davis, COSILoveYou – Co-Chair

#### Minority Groups

Angielica Aviles – Chair

#### Data Committee

Bruce Fogarty – Co-Chair  
Rebecca Theobald, UCCS – Co-Chair

#### Arts and Cultural Groups

Andy Vick, COPPeR – Chair

#### Neighborhood Groups

Diane Loschen, CONO – Co-Chair  
Bob Cutter – Co-Chair  
Dave Munger – Co-Chair

#### Nonprofit Groups

Amber Coté, Colorado Nonprofit Assoc. – Co-Chair  
Tammy Sayles, El Pomar NP Resource Ctr – Co-Chair

#### Government

Sarah B. Johnson, COS City Clerk – Co-Chair  
Stan VanderWerf, El Paso County Comm. – Co-Chair  
Suzanne Leclercq, Woodland Park  
Kristy Martinez, City of Fountain  
Lynda Morgan, Teller County  
Melinda Reichal, Monument  
Michelle Anthony, Manitou Springs  
Bill Gray, Cripple Creek  
Cindy Tompkins, Calhan and Ramah  
Green Mountain Falls  
Palmer Lake  
Victor  
Pikes Peak Area Council of Governments – Jessica McMullen

## The Town of



## Green Mountain Falls

P.O. Box 524, 10615 Green Mountain Falls Road, Green Mountain Falls, CO 80819 (719) 684-9414, [www.gmfco.us](http://www.gmfco.us)

To: Mayor and Board of Trustees

From: Laura J. Kotewa Town Clerk

Re: Town Clerk Report

Date: January 8, 2019

### Routine activities continuing

- Gazebo rentals
- Payroll
- Accounts payable
- Agenda packet preparation
- Meeting management
- Legal notices and postings

### Website

Training with Jamie Desrosier from SIPA on January 4<sup>th</sup> on maintenance for the new website was completed, and the Website now has updated forms, and a new Blog Spot among other things.

### IT

We have a PO in place and some of our equipment will arrive and be installed by this meeting. Long term planning is also being discussed to maximize our budget dollars in addressing network and maintenance needs. Work continues on a contract to cover computer maintenance in our office. Included in this will be discussion of our Budget/Accounting software.

### Records Management

Work continues to ensure that critical record series are complete and archived. General hard copy files are being moved to a more orderly structure, although there is still significant work to be done. Electronic files continue to improve slowly and as time allows.

### Court

There were 2 cases heard and resolved in Court on January 2, 2019.

### Planning Commission support

The interim process continues as best it can, given limited staff time available. Work continues to find an intern or find other options for additional staff.



### Codification

Ordinances adopted since the last supplement have been submitted to Municode. Moving forward, we will do a full supplement at the close of each calendar year (hard copy and electronic), and an update quarterly (electronic only).

### Unmet needs

- Staff support to the Planning Commission (meeting management, communication link with Board, communication lead for the community).
- Full use of Quick Books, or a move to a new Software
- Network and Computer maintenance
- Printer update