

Planning and Community Development Department 2880 International Circle Colorado Springs, Colorado 80910 Phone: 719.520.6300 Fax: 719.520.6695 Website www.elpasoco.com

DEVIATION REQUEST AND DECISION FORM

Updated: 6/26/2019

PROJECT INFORMATION

Cul-de-sac Deviation Request

May 2022

Table of Contents

Application

- Legal Description
- Applicant Information, Engineer's Information, Declaration
- Deviation Request
- Limits of Consideration
- Criteria For Approval
- Review and Recommendation

EXHIBITS

- 1. SITE MAP
- 2. PLAT MAP
- 3. MAINTENANCE AGREEMENT
- 4. EL PASO COUNTY CRITERIA
- 5. BLACK FOREST FIRE AND RESCUE PROTECTION DISTRICT LETTER
- 6. PRELIMINARY ROAD DESIGN PLANS
- 7. EROSION CONTROL FACILITIES

Project Name : Forest Heights Estates

Schedule No.(s): 52090-00-050; 52090-00-121; 52090-00-121 (Exhibit 1)

Legal Description : FOREST HEIGHTS ESTATES Legal Description:

A Tract of land in the Southwest 1/4 of Section 9, Township 12 South, Range 65 West, of the 6th P.M. County of El Paso, State of Colorado, more specifically described as follows;

Commencing at the West 1/4 corner of Section 9,

Thence Along the North line of said Southwest 1/4, N89°55'03"E a distance of 1391.55 feet to the Point of Beginning of the parcel to be described hereby;

Thence continue along said North line, N89° 55'03"E a distance of 506.51 feet to the Northwest corner of that parcel described at Book 2318, Page 387, of the records of the El Paso County Clerk and Recorder; Thence S00°03'25"W along the West line of said parcel a distance of 430.00 feet;

Thence N89°55'03"E parallel to said North line, a distance of 506.81 feet to the Northmost West line of the parcel described in Book 721, Page 970 of said records;

Thence S00°09'20"W a distance of 60.00 feet;

Thence S89°55'03"W along the line of said parcel 459.94 feet;

Thence S00°11'43"W along the West line of said parcel a distance of 829.70 feet;

Thence S89°54'44"W a distance of 1941.21 feet to a point on the East Right of Way line of Herring Road; Thence N00°03'25"E" along said East line a distance of 327.80 feet to the South line of that parcel described in Book 2371 Page 388 of said records;

Thence N89°55'03"E along the South line of said parcel a distance of 434.00 feet;

Thence; N00°03'25"E along the East line of said parcel a distance of 501.84 feet to the South line of that parcel described in Book 2215 Page 559 of said records

Thence along said South line N89°55'03"E along said South line distance of 449.43 feet to the East line of said parcel;

Thence N00°03'25"E along said East line a distance of 60.00 feet;

Thence N89°55'03"E a distance of 506.51 feet,

Thence; N00°03'25"E a distance of 430.00 feet to the Point of Beginning, except that parcel described in Book 2645, Page 207.

EXCEPTION PARCEL: Book 2645, Page 207 of the records of El Paso County, Colorado

A tract of land in the Southwest 1/4 of Section 9, Township 12 South, Range 65 West of the 6th p.m.

County of El Paso, State of Colorado more particularly described as follows;

Commencing at the West 1/4 corner of said Section 9,

Thence along the West line of Section 9, S00°03'25"W a distance of 490.00 feet;

Thence N89°55'03"E a distance of 1090.00 feet to the Point of Beginning of the tract described hereby;

Thence N89°55'03"E a distance of 610.00 feet;

Thence S00°03'25"W a distance of 325.00 feet;

Thence S89°55'03"W a distance of f610.00 feet;

Thence N00°03'25"E a distance of 325.00 feet to the Point of Beginning.

This description contains 34.528 acres (not including the exception parcel).

TRACT A

Tract in Northwest quarter of the Southwest quarter of Section 9, Township 12 South, Range 65 West, of the 6th P.M. County of El Paso, State of Colorado, described as follows:

Commencing at the West 1/4 corner of said Section 9, Thence along the west line of said Section 9 S00°03'25"W a distance of 430.00 feet;

Thence N89°55'03"E 30.00 feet to a point on the West Right of Way line of Herring Road and the Point Of Beginning (P.O.B.) of the Tract described hereby;

Thence N89°55'03"E a distance of 435.00 feet;

Thence S01'00'46"W a distance of 60.01 feet;

Thence S89°55'03"W a distance of 434.00 feet to a point on said West Right of Way line; Thence N00°03'25"E a distance of 60.00 feet to the Point Of Beginning (POB).

Tract A contains 0.598 Acres, more or less.

THE TOTAL ACREAGE OF THIS SUBDIVISION PLAT IS 35.126 ACRES.

APPLICANT INFORMATION

Company :	N/A
Name :	Ms. Phyllis Didleau
	🛛 Owner 🔲 Consultant 🗆 Contractor
Mailing Address :	8250 Forest Heights Circle
	Colorado Springs, Colorado 80908
Phone Number :	719-440-1949
FAX Number :	none
Email Address :	phyllis@pcisys.net

ENGINEER INFORMATION

Company :	KCH Engineering Solutions, LLC		
Name :	Kenneth, Harrison	Colorado P.E. Number :	0023635
Mailing Address :	5228 Cracker Barrel Circle		
	Colorado Springs, CO 80917		
Phone Number :	719-246-4471		
FAX Number :	none		
Email Address :	ksharrison5228@msn.com		

OWNER, APPLICANT, AND ENGINEER DECLARATION

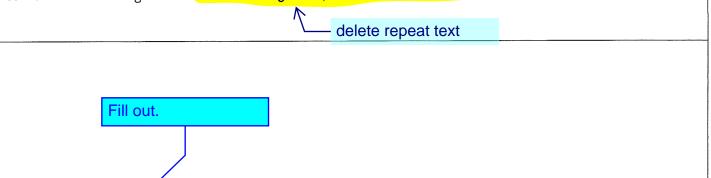
To the best of my knowledge, the information on this application and all additional or supplemental documentation is true, factual and complete. I am fully aware that any misrepresentation of any information on this application may be grounds for denial. I have familiarized myself with the rules, regulations and procedures with respect to preparing and filing this application. I also understand that an incorrect submittal will be cause to have the project removed from the agenda of the Planning Commission, Board of County Commissioners and/or Board of Adjustment or delay review until corrections are made, and that any approval of this application is based on the representations made in the application and may be revoked on any breach of representation or condition(s) of approval.

Signature of owner (or authoriz	ed representative)	Date	
Engineer's Seal, Signature And Date of Signature	Г	Г		
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DEVIATION REQUEST (Attach d	iagrams, figures, a	and other documentation to cl		
A deviation from the standards in	Section <u>2.3.8.A C</u>	ul-de-sacs of the Engineering	g Criteria Ma <mark>the seal</mark>	l date across

Identify the specific ECM standard which a deviation is requested:

Section 2.3.8.A Cul-de-sacs (Exhibit 4, Appendix)

" Cul-de-sacs shall have a minimum radius of 45 feet and a maximum length of 750 feet for urban conditions and a minimum radius of 50 feet and a maximum length of 1,600 feet for rural conditions, be designed in conformance with Figure 2-31maximum length of 1,600 feet for rural conditions"



State the reason for the requested deviation:

The existing Forest Heights Circle is approximately 2400 feet in length which dead ends at a cul-d-sac bulb. The existing cul-desac does not meet ECM standards in its current condition. The road was constructed in the mid 1970's. Minimal maintenance has been performed. The entire length of the road, approximately 2450 feet east of Herring Road, is to be reconstructed to meet current EPC criteria. The Typical Section has been revised to the Typical Section detail shown on the construction plans (*Exhibit*). A cul-de-sac is to be constructed to approximately the easterly boundary of the tract. All of the proposed improvements are to end at approximately 2.450 feet east of the easterly right of way line of Herring Road.

An option to the South (Exhibit 9, Appendix) was submitted by a resident in the existing subdivision. This purpose of this option was to eliminate the proposed cul-de-sac bulb. However, this would require the following improvements;

• a 60' easement/ right of way along the East and South line of Lot 4.

X

- the construction of a total of 3,200 feet of roadway
- Substantial construction within existing wetland areas
- the installation of a total of 4 additional culverts
- an onsite intersection with Forest Heights Circle
- significant erosion control facilities
- the loss of approximately 2.5 acres of useable land,
- the construction of a new intersection at Herring Road.
- The possibility of additional improvements required by the Black Forest Fire Department.

Exhibit 9 was not provided. Please be aware that this information is not necessary for this deviation.

Explain the proposed alternative and compare to the ECM standards (May provide applicable regional or national standards used as basis):

In order to provide access to all of the lots, a roadway to approximately the east property boundary line is required. The proposed improvements for the entire roadway construction are to include the following:

- Approximately 2450 feet of new gravel roadway
- Cul-de-sac bulb at the easterly end of the proposed road
- Three (3) culverts to replace the existing culverts at locations where existing swales cross the road. •
- Two (2) emergency pull out required by the Black Forest Fire Rescue Protection District (Exhibit 5, Appendix) at stations either remove the highlighted text or
- Erosion control facilities provide the stations
- Miscellaneous improvements at the Herring Road intersection

All of the proposed improvements are to be designed according to El Paso County criteria with the exception of modifications to the typical section which is described in another Deviation Request.

A set of preliminary roadway plans are included with this deviation request (Exhibit7, Appendix)

Please identify the County max cul-de-sac length and the difference in the proposed and max. length. Again, please determine whether there are any other options that should be considered before claiming the criteria is imposing an undue

LIMITS OF CONSIDERATION

(At least one of the conditions listed below must be met for this deviation request to be considered.) hardship.

□ The ECM standard is inapplicable to the particular situation.

I Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility. A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

Provide justification:

The existing road is a private road that has been in service since the 1970s. Recorded easements exist for ingress and egress along the entire length of Forest Heights Circle. The roadway is to remain private and will have a Maintenance Agreement (Exhibit 6 Appendix) for the maintenance of the road. This "option" is the only feasible one that has been considered. Even though the road is to remain private,. all of the proposed improvements are to be designed in accordance with the current El Paso Design Criteria. The following is required;.

- Approximately 2450 feet of roadway to include a cul-de-sac bulb at the easterly end.
- Three (3) culverts replacing the existing culverts at locations where existing swales cross the roadway...
- Two (2) emergency pull outs required by the Black Forest Fire Rescue Protection District' (Exhibit 5, Appendix)
- Erosion control facilities
- Miscellaneous improvements at the Herring Road intersection

Modifications to the existing gravel road are not economically feasible since the existing roadway:

- is not located along the centerline of the right of way.
- does not meet the current design criteria.
- Additional fill is required to improve drainage.

Please discuss whether the length of the cul-de-sac can be reduced to meet ECM criteria for a rural road and/or why it must extend to the easterly end of the development.

Please be aware that the County is not requiring the roadway to be extended to the easterly end of the property. The roadway may terminate at the easterly boundary of the proposed lots 1 and 2 if you so choose.

This section is confusing as the proposed CD's show that the existing roadway will be modified. Additionaly the deviation request was not be based on financial considerations as stated in the section below. Please revise.

CRITERIA FOR APPROVAL

Per ECM section 5.8.7 the request for a deviation may be considered if the request is <u>not based exclusively on financial</u> <u>considerations</u>. The deviation must not be detrimental to public safety or surrounding property. The applicant must include supporting information demonstrating compliance with <u>all of the following criteria</u>:

The deviation will achieve the intended result with a comparable or superior design and quality of improvement.

Other than the maximum length requirement of 1,600 feet for a dead-end road, the length of this roadway is approximately 2450
feet. The cul-de-sac is to be constructed to the requirements of the ECM. The proposed improvements will achieve the intended
result with a comparable and superior design and quality. The improvements include the following;

- 1. Design of the roadway and its appurtenances to the design criteria for El Paso County. Construction will provide a more stable road surface with consistent road widths, side slopes, and borrow ditch depths.
- 2. Widening of the travel way will provide safety to the residents.
- 3. Provision of an adequate cross slope of the travel way in order to eliminate ponding on the roadway and to provide efficient removal of stormwater.
- 4. Installation of borrow ditches designed to efficiently route storm water to the proposed culverts installed at the existing swale crossings
- 5. Installation of improved road surface materials.
- 6. The proposed roadway improvements will not be detrimental to public safety or the surrounding properties.
- 7. A Drainage Report has been prepared and submitted for this new subdivision. The report demonstrates that the proposed improvements have only a negligible impact on the storm water runoff from the site.

The **cul-de-sac** is to be constructed to the requirements of El Paso County. The proposed improvements are to include the following:

- 1. A diameter of 100 feet for the diameter of the "travelled portion" of the cul-de-sac
- 2. A diameter of 120 feet for the cul-de-sac bulb right-of-way.
- 3. Installation of roadside borrow ditches to efficiently route storm water to the proposed culverts shown at station 12+31 and 22+55 (*Exhibit 5, Appendix*).
- 4. Erosion control facilities will be installed at locations shown on the Grading and Erosion Plan (Exhibit 7, Appendix).
- 5. The proposed roadway will remain private with a Private Roadway Maintenance Agreement (Exhibit 6, Appendix).

The deviation will not adversely affect safety or operations.

The existing roadway has been in service since the 1970s and is considered to be safe. The deviation will not adversely affect safety of operations. The proposed improvements will improve the safety and operations with the following:

- 1. The cul-de-sac is to be constructed in accordance with the requirements for El Paso County.
- 2. Vehicle speeds are either to be posted at 25 mph or 15 mph. The Subdivision's Board will decide between a speed limit of 25 mph and 15 mph. Two (2) speed limit signs will be placed, one on south side of the road at station 0+60 facing the east bound traffic and the other on the north side at station14+00 facing the west bound traffic. These signs are called out on the final submittal (*Exhibit 5, Appendix*)
- 3. Cross slopes along the travel way will be constructed at 4%. standards
- 4. Installation of borrow ditches to safely and efficiently route storm water to the culvert crossings

The deviation will not adversely affect maintenance and its associated cost.

The proposed improvements are expected to decrease the maintenance and its associated cost with the installation of the following:

- 1. The cross slope of the proposed roadway will help prevent stormwater from "standing" on the surface of the travel-way which in turn will reduce the chances for potholes forming.
- 2. The borrow ditches will help route the majority of storm water to the appropriate culvert in order to quickly remove standing water which has the potential of degrading the sub grade. The ponding on the existing roadway has been an issue with the residents.
- 3. Installation of erosion control improvements will reduce, if not eliminate, the maintence of the existing wetland areas locate both upstream and downstream of the proposed culverts.

The deviation will not adversely affect aesthetic appearance.

The deviation will greatly increase the aesthetic appearance of the area. The existing cul-de-sac is irregular with not a consistent cross slope. This creates standing water which is very conducive to potholing. The drainage improvements are to be installed to prevent the water from entering the roadway and to direct it to an appropriate culvert.

The deviation meets the design intent and purpose of the ECM standards.

The design of the roadway, cul-de-sac, cross culverts, borrow ditches and erosion control facilities described above will be designed and constructed in accordance with the current criteria for El Paso County and the Black Forest Fire District.

The deviation meets the control measure requirements of Part I.E.3 and Part I.E.4 of the County's MS4 permit, as applicable.

 Temporary erosion control improvements are to be installed. The location of the proposed erosion control measures is slit. The erosion control measures include the following: Erosion control logs Staked hay bales. Erosion control fabric Seeding and mulching. Permanent erosion and sediment control improvements will Borrow ditches with ECM required slopes, seeded New road and driveway culverts with culvert ends. Placing soil mixed riprap at the culvert outlets. Erosion control blanket where required. 	and mulched.
REVIEW AND RECOMMENDATION: Approved by the ECM Administrator This request has been determined to have met the criteria for hereby granted based on the justification provided.	Please also state that the development meets the requirements of the County's MS4 approval. A deviation from Section of the ECM is
۲ L Denied by the ECM Administrator This request has been determined not to have met criteria for hereby denied.	L
L	L L

ECM ADMINISTRATOR COMMENTS/CONDITIONS:

Page **10** of **11**

1.1. PURPOSE

The purpose of this resource is to provide a form for documenting the findings and decision by the ECM Administrator concerning a deviation request. The form is used to document the review and decision concerning a requested deviation. The request and decision concerning each deviation from a specific section of the ECM shall be recorded on a separate form.

1.2. BACKGROUND

A deviation is a critical aspect of the review process and needs to be documented to ensure that the deviations granted are applied to a specific development application in conformance with the criteria for approval and that the action is documented as such requests can point to potential needed revisions to the ECM.

1.3. APPLICABLE STATUTES AND REGULATIONS

Section 5.8 of the ECM establishes a mechanism whereby an engineering design standard can be modified when if strictly adhered to, would cause unnecessary hardship or unsafe design because of topographical or other conditions particular to the site, and that a departure may be made without destroying the intent of such provision.

1.4. APPLICABILITY

All provisions of the ECM are subject to deviation by the ECM Administrator provided that one of the following conditions is met:

- The ECM standard is inapplicable to a particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship on the applicant, and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not
 modified, the standard will impose an undue hardship on the applicant with little or no material benefit to
 the public.

1.5. TECHNICAL GUIDANCE

The review shall ensure all criteria for approval are adequately considered and that justification for the deviation is properly documented.

1.6. LIMITS OF APPROVAL

Whether a request for deviation is approved as proposed or with conditions, the approval is for project-specific use and shall not constitute a precedent or general deviation from these Standards.

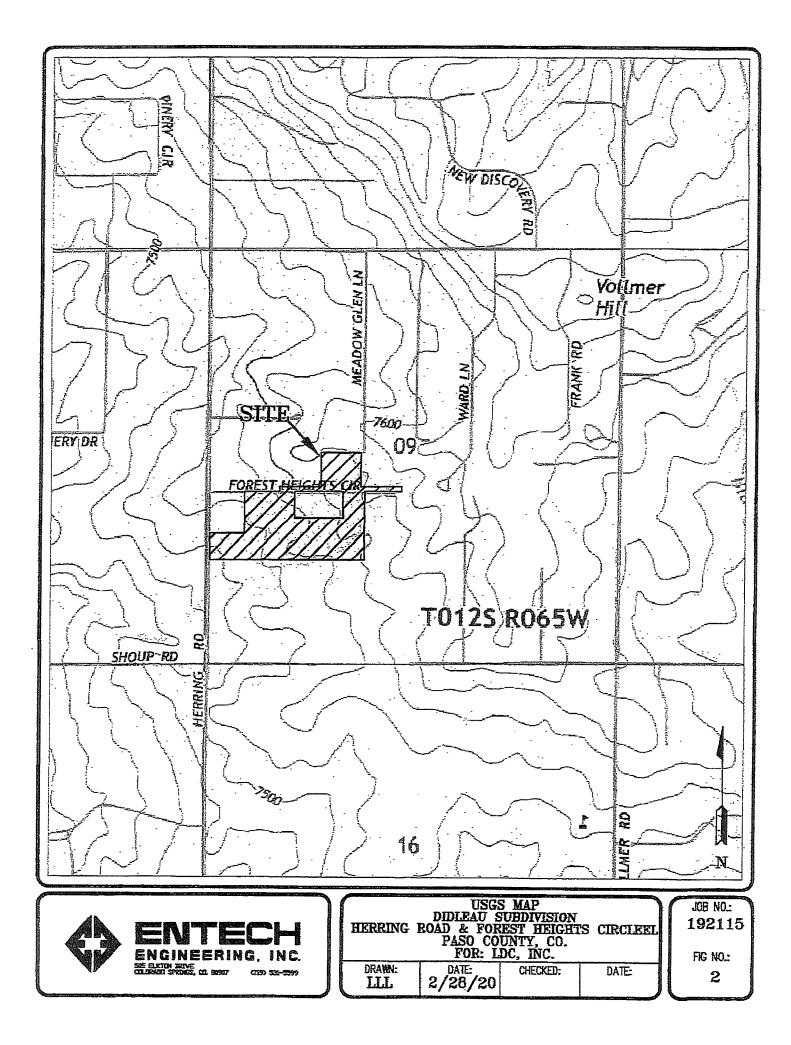
1.7. REVIEW FEES

A Deviation Review Fee shall be paid in full at the time of submission of a request for deviation. The fee for Deviation Review shall be as determined by resolution of the BoCC.

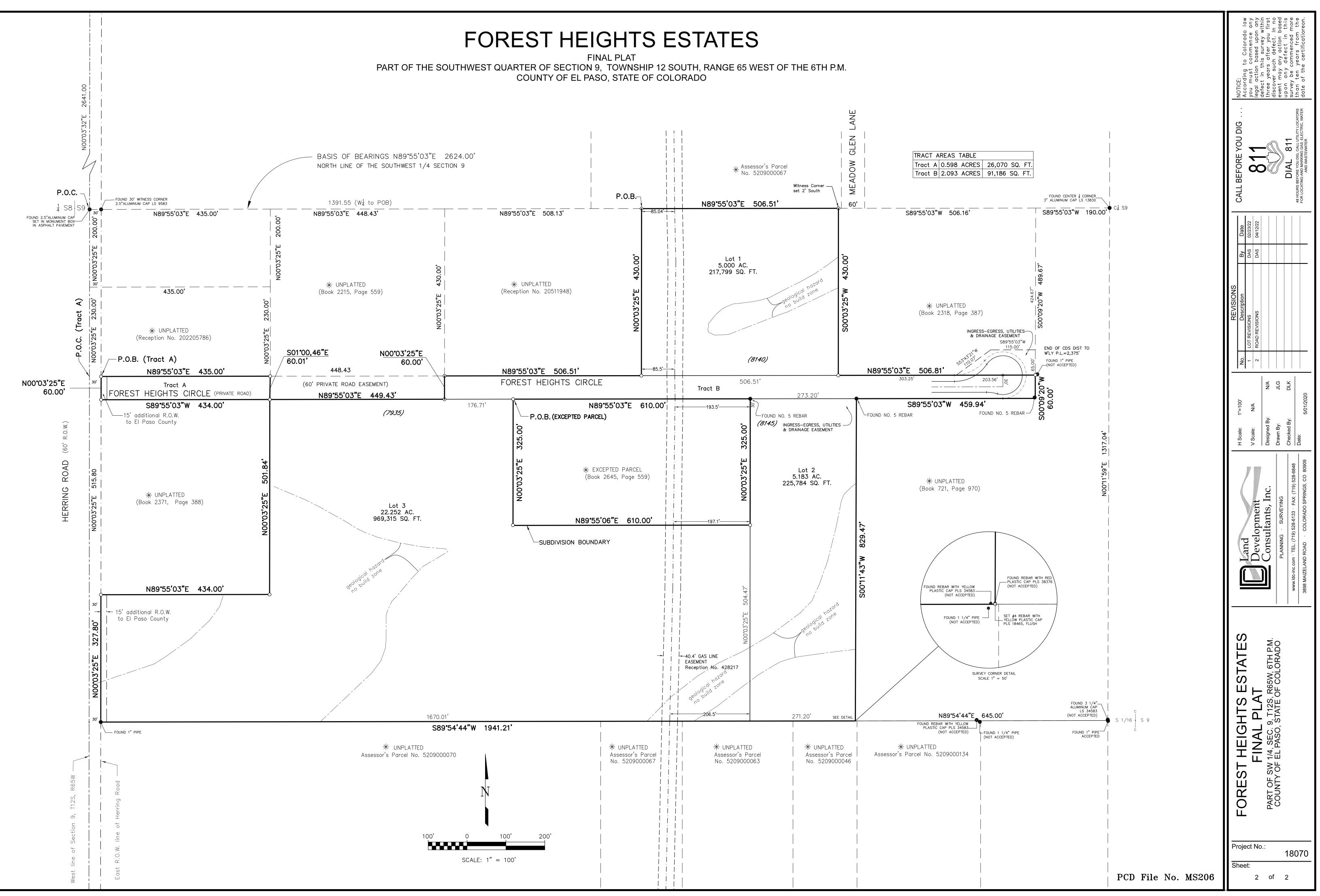
EXHIBITS

- 1. SITE MAP
- 2. PLAT MAP
- 3. MAINTENANCE AGREEMENT
- 4. EL PASO COUNTY CRITERIA
- 5. BLACK FOREST FIRE AND RESCUE PROTECTION DISTRICT LETTER
- 6. PRELIMINARY ROAD DESIGN PLANS
- 7. EROSION CONTROL FACILITIES

1.SITE MAP



2. PLAT MAP



3.MAINTENANCE AGREEMENT

Please attach the most up to date agreement or you may remove the exhibit from the deviation request so that you don't have to keep updating with each change to the agreement.

ACCESS EASEMENT GRANT AND MAINTENANCE DECLARATION AND AGREEMENT FOREST HEIGHTS CIRCLE

THIS ACCESS EASEMENT GRANT AND MAINTENANCE DECLARATION AND AGREEMENT, dated for reference this ______ day of ______, 2020, (Agreement) is made between Phyllis Didleau, Jon P. Didleaux, Lielani A Ritchie, Judith P Von Ahlefeldt, Charles F. Bauer and Shirley L. Bauer, Frederick J. Yonce and Judith P. Von Ahlefeldt (each individualy an "Owner" and collectively the "Owners").

RECITALS:

- A. Phyllis Didleau is the owner of the real property situated in the County of El Paso, State of Colorado described on Exhibit A (Assessor Parcel # 5209000121) and the real property situated in El Paso County State of Colorado described on Exhibit A-1 (Assessor Parcel 5209000081).
- B. Phyllis Didleau and Jon Didleaux are the owners of real property situated in the County of El Paso, State of Colorado described on Exhibit B (Assessor Parcel # 5209000120).
- C. Jon P Didleaux is the owner of the real property situated in the County of El Paso, State of Colorado described on Exhibit C (Assessor Parcel # 5209000050).
- D. Lielani A Ritchie is the owner of the real estate situated in the County of El Paso, State of Colorado described on Exhibit D (Assessor Parcel # 5209000103).
- E. Charles, F. Bauer and Shirley L Bauer are the owners of the real property situated in the County of El Paso, State of Colorado described on Exhibit E (Assessor Parcel # 5209000100).
- F. Frederick J. Yonce is the owner of the real property situated in the County of El Paso, State of Colorado described on Exhibit F (Assessor Parcel # 509000119).
- G. Judith P. Von Ahlefeldt is the owner of the real property situated in the County of El Paso, State of Colorado described on Exhibit G.
- H. The Owners wish to establish a private right of way and road across the following described real estate owned by some of them. The real estate over which is the private right of way and road is legally described in Exhibit H (the "Private Road Land"). The Owners who own a portion of the Private Road Land are sometimes referred to herein as "Grantors."
- I. The Owners understand that El Paso County does not maintain private roads such as the one subject to this Agreement.
- J. The Owners wish to provide for and set forth their understandings and agreement with respect to use and maintenance of the private road and improvements thereon.
- K. Some of the Owners are processing the subdivision of their land through the subdivision regulations of El Paso County and desire to have this Agreement meet the requirements of El Paso County for County approval of such subdivision.

NOW THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the following grants, agreement, covenants, declaration and restrictions are made:

- 1. <u>Grant of Easement</u>. Each of the Grantors hereby grants to each Owner and their successors and assigns, a nonexclusive easement for access, utilities and drainage for the benefit of each such Owner's respective parcel described above across the Private Road Land.
 - 2. <u>Use of the Owners' Real Estate.</u> Use of the Private Road Land by the Owners is not confined to the present configuration of their respective properties, and the Owners or their successors may subdivide, reconfigure, construct improvements on or otherwise modify or use their property. However, the Owners agree to construct no fences or place any other obstructions on their respective properties in a manner which would prevent, or reasonably impede, vehicle or personnel travel, utility access or drainage across the Private Road Land. Otherwise, the respective Owners each shall have full use and occupancy of their respective real estate which is subject to the easement set forth above.
 - 3. <u>Maintenance of the Private Road.</u> As a general standard, the Owners agree that they shall provide maintenance sufficient to provide reasonable access for emergency vehicles. The Owners agree to share the cost and expense of maintaining the improvements on the Private Road Land in good operating condition and to share equally the cost and expense of affecting any repair to said Improvements accruing from and after the date of this Agreement. For purposes of this cost sharing, each Owner shall pay a share for each residential dwelling unit on such Owner's real estate. For example, if there are seven parcels of real estate, and five residences (whether occupied or not), each Owner with a residence on such Owner's property shall pay one fifth (1/5th) of the cost of maintaining the improvements for each such residence on such Owner's property.
 - 4. Maintenance Process. The Owners agree that unless Owners of the real estate with 60% of the dwelling units appoint a different Administrator. Jon P. Didleaux shall be the Administrator of this Agreement. Whenever in the opinion of the Administrator the road requires such maintenance, on behalf of the Owners the Administrator shall order and arrange for sufficient maintenance meet the standard above and to enable the Owners to use the roadway. Such maintenance shall include snow removal, grading, re-gravelling, cleaning culverts, weed treatment, tree and debris removal, and any other maintenance generally desired by Owners. The Administrator shall either (i) pay for such maintenance directly and be reimbursed by each Owner according to each Owner's proportionate share, or (ii) arrange to have each Owner directly pay the proportionate cost of such maintenance, or (iii) use some combination of the foregoing. To the extent the Administrator pays for any Owner's share, the Administrator shall have a lien on each such Owner's respective real estate as set forth above until such Owner's share is paid in full with interest accruing on any unpaid amount at the rate of 10% per annum simple interest and the Administrator shall be entitled to recover the costs of enforcing such lien and collecting such amount, including reasonable legal fees, expert witness fees and costs. The Administrator may refuse to order such maintenance until there is, in the Administrator's opinion, sufficient commitment or actual payment to reimburse the Administrator and pay for such maintenance. Unless otherwise agreed by Owners of the real estate with 60% of the dwelling units, the Administrator shall serve without compensation.

5. <u>Binding Agreement.</u> This Agreement shall be binding upon the undersigned Owners, and their respective successors, assigns, and personal representatives. This Agreement may not be revoked without the written unanimous consent of the affected Owners. This Agreement shall be recorded in the land records of the Office of the Clerk and Recorder of El Paso County, Colorado, and shall be a covenant running with the lands of the Owners as those lands are described herein above, and shall be enforceable by the Owners' successors and assigns and personal representatives. Any persons or other entities who acquire title to the Owners' property hereinabove described, whether by purchase or otherwise, shall be subject to the provisions of this Agreement to the same extent as if such parties had been signatory to this Agreement.

STATE OF COLO	RADO)			
COUNTY OF EL	PASO) ss.)			
This instrument	was	acknowledged	before	me	on		 by
[Seal]					•		
				,	Nota	ry Public	
		My co	ommissio	n expi	res:		

Access. Easement and Maintenance Agreement - Page 3

3.MAINTENANCE AGREEMENT

please remove repeated sheets

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- I. The Owners understand that El Paso County does not maintain private roads such as the one subject to this Agreement.
- 1 The Owners wish to provide for and set forth their understandings and agreement

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 - 2. <u>Use of the Owners' Real Estate.</u> Use of the Private Road Land by the Owners is not confined to the present configuration of their respective properties, and the Owners or their successors may subdivide, reconfigure, construct improvements on or otherwise modify or use their property. However, the Owners agree to construct no fences or place any other obstructions on their respective properties in a manner which would prevent, or reasonably impede, vehicle or personnel travel, utility access or drainage across the Private Road Land. Otherwise, the respective Owners each shall have full use and occupancy of their respective real estate which is subject to the easement set forth above.
 - 3. <u>Maintenance of the Private Road.</u> As a general standard, the Owners agree that they shall provide maintenance sufficient to provide reasonable access for emergency vehicles. The Owners agree to share the cost and expense of maintaining the improvements on the Private Road Land in good operating condition and to share equally the cost and expense of affecting any repair to said Improvements accruing from and after the date of this Agreement. For purposes of this cost sharing, each Owner shall pay a share for each residential dwelling unit on such Owner's real estate. For example, if there are seven parcels of real estate, and five residences (whether occupied or not), each Owner with a residence on such Owner's property shall pay one fifth (1/5th) of the cost of maintaining the improvements for each such residence on such Owner's property.
 - 4. <u>Maintenance Process.</u> The Owners agree that unless Owners of the real estate with 60% of the dwelling units appoint a different Administrator, Jon P. Didleaux shall be the Administrator of this Agreement. Whenever in the opinion of the Administrator the road requires such maintenance, on behalf of the Owners the Administrator shall order and arrange for sufficient maintenance meet the standard above and to enable the Owners to use the roadway. Such maintenance shall include snow removal, grading, re-gravelling, cleaning culverts, weed treatment, tree and debris removal, and any other maintenance generally desired by Owners. The Administrator shall either (i) pay for such maintenance directly and be reimbursed by each Owner according to each Owner's proportionate share, or (ii) arrange to have each Owner directly pay the proportionate cost of such maintenance, or (iii) use some combination of the foregoing. To the extent the Administrator pays for any Owner's share, the Administrator shall have a lien on each such Owner's respective real estate as set forth above until such Owner's share is paid in full with interest accruing on any uppaid amount at the rate of 10% per annum simple interest and the Administrator shall

5. <u>Binding Agreement.</u> This Agreement shall be binding upon the undersigned Owners, and their respective successors, assigns, and personal representatives. This Agreement may not be revoked without the written unanimous consent of the affected Owners. This Agreement shall be recorded in the land records of the Office of the Clerk and Recorder of El Paso County, Colorado, and shall be a covenant running with the lands of the Owners as those lands are described herein above, and shall be enforceable by the Owners' successors and assigns and personal representatives. Any persons or other entities who acquire title to the Owners' property hereinabove described, whether by purchase or otherwise, shall be subject to the provisions of this Agreement to the same extent as if such parties had been signatory to this Agreement.

OWNERS:					
STATE OF COLORADO COUNTY OF EL PASO)) ss.			
This instrument was	acknowledged	before me	on		by
[Seal]			Notary Public	_	
	Му со	ommission expi	res:	-	

4.EL PASO COUNTY CRITERIA

EXHIBIT 4

2.3.8. Roadway Terminations

Cul-de-Sacs. Cul-de-sacs shall be used only where absolutely necessary. Cul-de-sacs shall have a minimum radius of 45 feet and a maximum length of 750 feet for urban conditions and a minimum radius of 50 feet and a maximum length of 1,600 feet for rural conditions, be designed in conformance with Figure 2-31. The maximum length of cul-de-sac shall be measured from the right-of-way of the intersecting street to the center of the cul-de-sac bulb. Hammerhead turnarounds are not permitted as permanent roadway terminations. The cul-de-sac right-of-way width shall be consistent with the right-of-way associated with the roadway functional classification and provide for the turnaround, sidewalks, utilities, and necessary drainage facilities. A request for a deviation from the maximum length criteria will not be considered without an express written endorsement from the Fire District in which the proposed cul-de-sac is located.

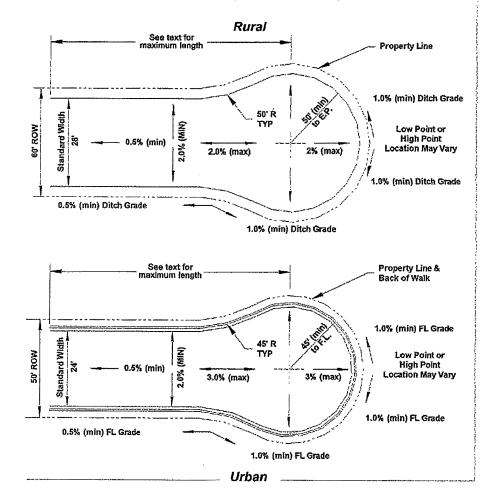
In special cases where a divided 4 lane roadway that terminates adjacent to a subdivision or development, the length of the collector or local roads that intersect the divide 4 lane roadway shall be measured from the point of intersection with the divided 4 lane roadway regardless of the length of the terminated divided 4 lane roadway. In all other cases, the length of the cul-de-sac or terminated road shall be measured from the point at which the road providing access to a site begins.

Α.

Chapter 2 Transportation Facilities Adopted: 12/23/2004 Revised: 12/13/2016 REVISION 6 Section 2.3.8-2.3.8

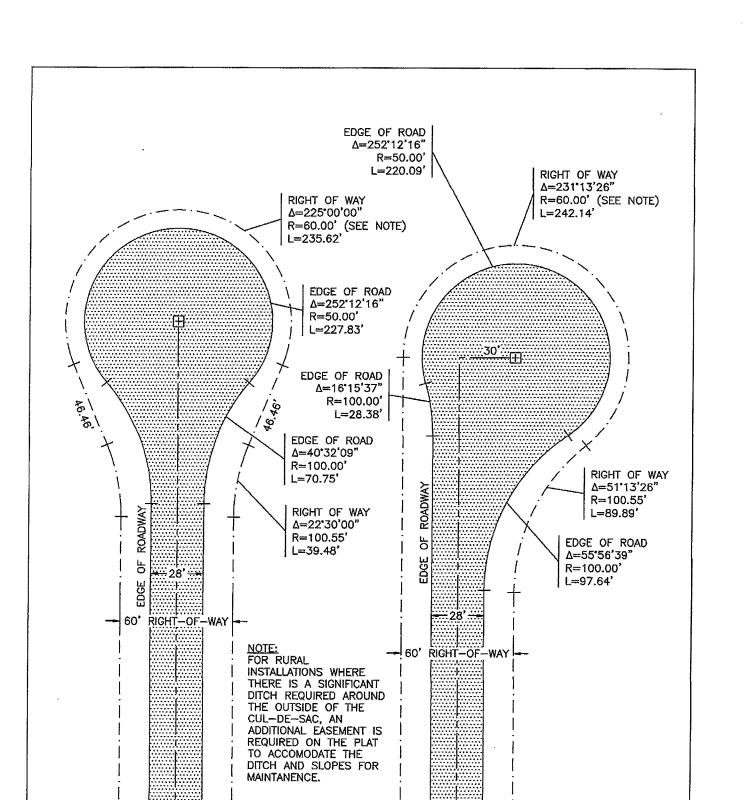
intersection with the divided 4 lane roadway regardless of the length of the terminated divided 4 lane roadway. In all other cases, the length of the cul-de-sac or terminated road shall be measured from the point at which the road providing access to a site begins.





B. Eyebrows

Eyebrows shall be permitted only on local roadways in conformance with Figure



5.BLACK FOREST FIRE AND RESCUE PROTECTION DISTRICT LETTER



Black Forest Fire Rescue Protection District 11445 Teachout Road Colorado Springs, Colorado 80908 Ph-719.495.4300 Fax 719.495.7504 Web-<u>www.bffire.org</u>

"Always Ready, Always Forward, Always Learning."

Office of the Fire Marshal

Thursday, August 27, 2020

Dear Ms. Didleau

Thank you for reaching out to me regarding your future road needs for the Forest Heights Estates subdivision. Per our current code Black Forest Fire Rescue is requiring the following Fire Access to your sub.

- 1. **403.3 Fire apparatus access road. (2006 WUI code)**When required, fire apparatus access roads shall be all-weather roads with a minimum width of 20 feet (6096 mm) and a clear height of 13 feet 6 inches (4115 mm); shall be designed to accommodate the loads (75,000lbs) and turning radii for fire apparatus; and have a gradient negotiable by the specific fire apparatus normally used at that location within the jurisdiction. Dead-end roads in excess of 150 feet (45 720 mm) in length shall be provided with turnarounds as approved by the code official. An all-weather road surface shall be any surface material acceptable to the code official that would normally allow the passage of emergency service vehicle.
- 2. Per 2015 IFC (amended), sec D103.4. Requirements for Dead-End Fire Apparatus Access Roads we are requiring a minimum of an 80-foot diameter cul-de-sac with curb and gutter or a 100-foot diameter cul-de-sac without curb and gutter.
- 3. As the road length is approximately 2200 ft to cul-de-sac, we will require a minimum of two turnouts along the main access roadway for emergency vehicle turnarounds. These turnouts should be spaced and located for maximum efficiency and shall be no less than 30 ft in length and 10 ft deep.

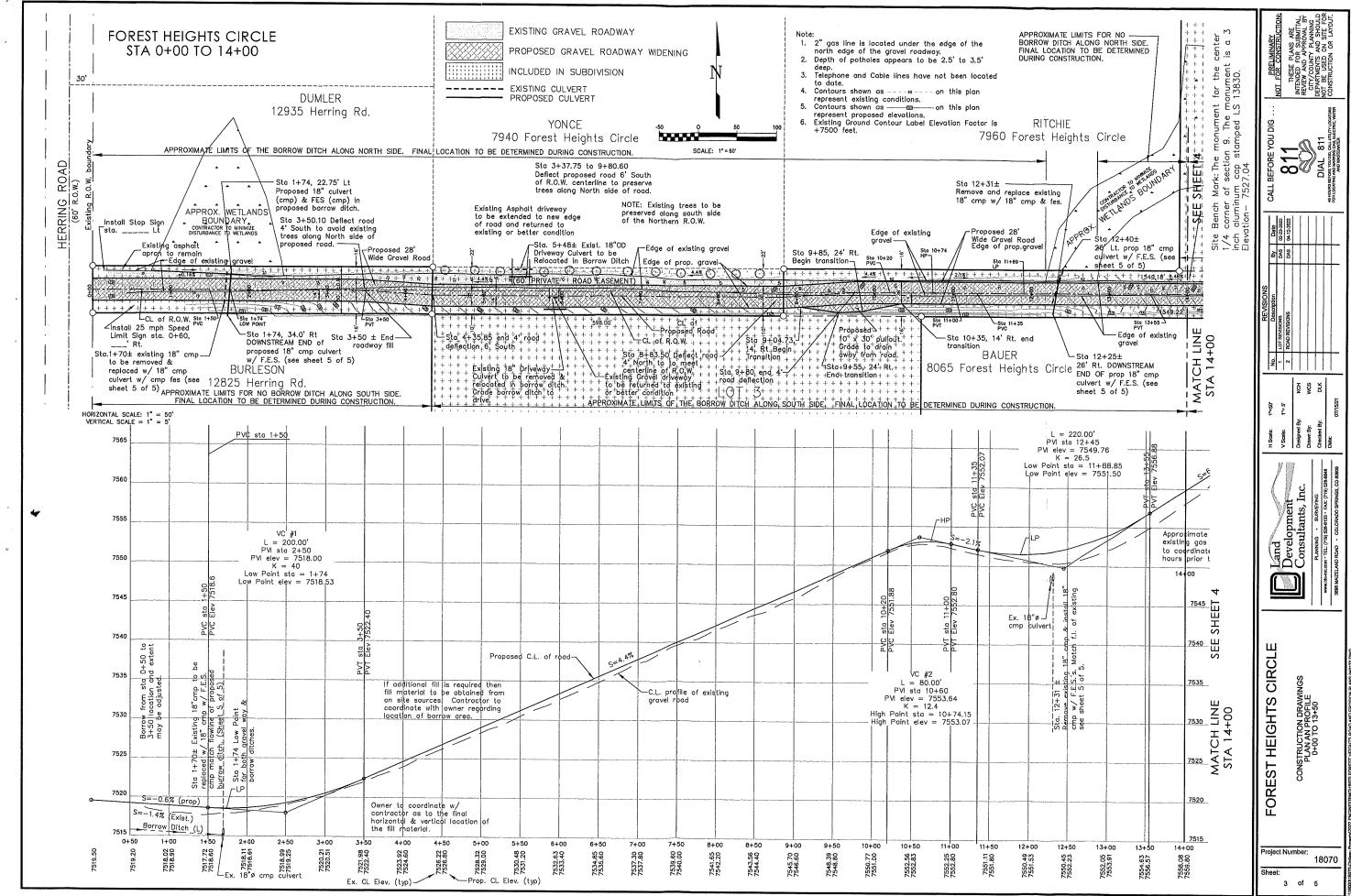
As you begin development of your project please be advised that your project, if 5 or more homes, will require a firefighting water supply source which is generally a water cistern located with the project and accessible to all fire apparatus or departments working in our district. This information is found in the NFPA sec 1142 (Standard on Water Supplies for suburban and Rural Fire Fighting) chapters 7 & 8. I will be happy to sit down and go over thee requirements with you as you progress in your project.

Thank you,

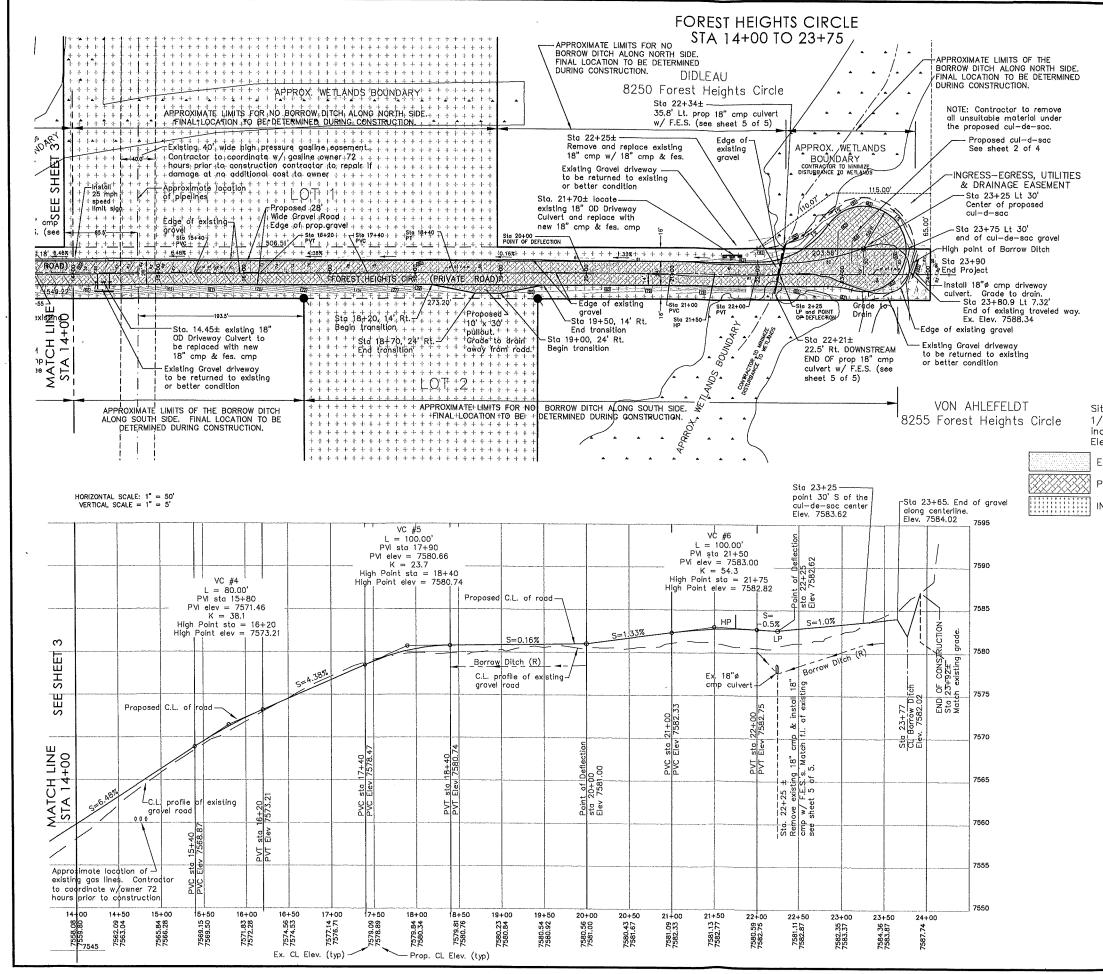


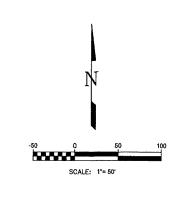
6. PRELIMINARY ROAD DESIGN PLANS

Please delete the word preliminary as the road design attached should be the final CD's submitted for review



070-01diesu Property/2022 ENGINEERING/18970 FOREST HEIGHTS ROAD AND EROSION PLANS 04012



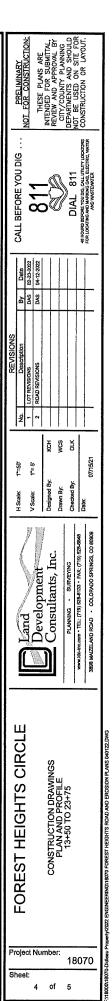


Site Bench Mark: The monument for the center 1/4 corner of section 9. The monument is a 3 inch aluminum cap stamped LS 13830. Elevation- 7527.04

EXISTING GRAVEL ROADWAY

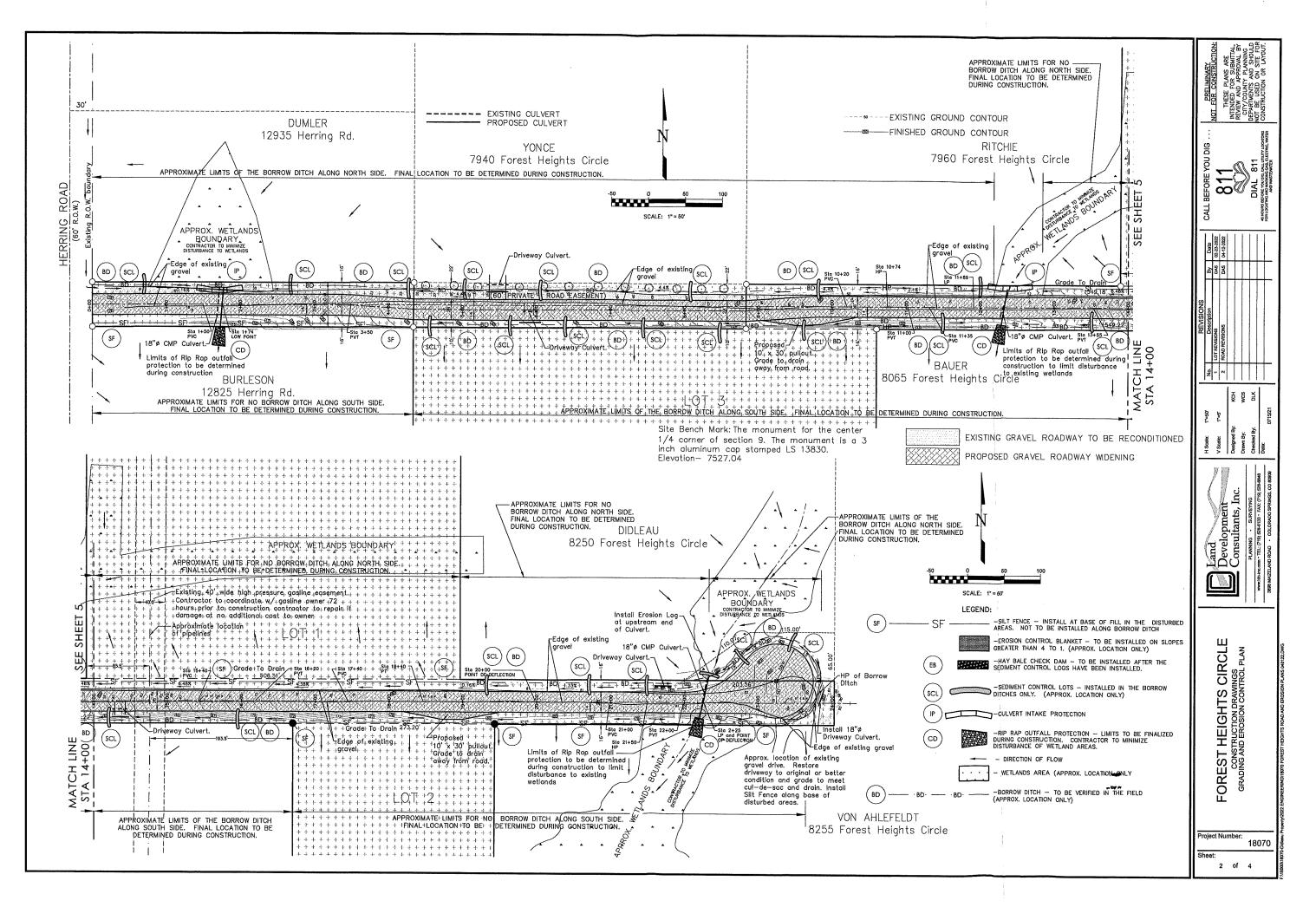
PROPOSED GRAVEL ROADWAY WIDENING

INCLUDED IN SUBDIVISION



7. EROSION CONTROL FACILITIES





16. Erosion Bales (EB)



1. **DESCRIPTION:**

Erosion Bales are temporary sediment control structures consisting of a row of entrenched and anchored weed free straw or hay bales.

2. CONTROL MEASURE USES

- Erosion Control
- Sediment Control
- Site/Materials Management

3. RELEVANT SPECIFICATION SECTIONS

Section 208 - Erosion Control

- a) 208.02.(a) Materials
- b) 208.12 Basis of Payment

4. RELEVANT M-STANDARD DETAILS

M-208-1, Sheet 10 of 11 (Erosion Bale Applications)

5. BASIS OF PAYMENT

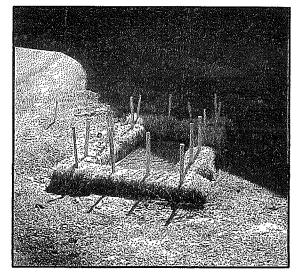
Pay item	Description	Pay Unit
208-00011	Erosion Bales (Weed Free)	EACH

6. APPLICATIONS

- Install along toe of fill areas to use as temporary filters.
- Use to intercept runoff from ditches, swales, and sump areas.
- Use for Temporary Storm Drain Inlet Protection devices.

7. LIMITATIONS

- May be installed in constructed ditches but not in live channels.
- When these structures are used, a secondary sediment control measure must be installed.
- Effectiveness is reduced after 3 months of use.

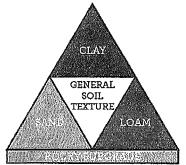


Erosion Bales installation around area inlets

8. CONTROL MEASURE SOILS TRIANGLE

SOIL TEXTURE AND SUBGRADE CONDITIONS APPROPRIATE

- NOT APPROPRIATE



17. Erosion Logs (EL)



1. DESCRIPTION:

Erosion Logs are temporary control measures consisting of a bound cylindrical bundle of a combination of excelsior, straw, coconut fibers, wood chips, or compost and anchored to the ground with wooden stakes. It is used to reduce flow velocities, capture sediment and release runoff as sheet flow over stabilized areas.

2. CONTROL MEASURE USES

- ⊠ Erosion Control
- Sediment Control
- Site/Materials Management

3. RELEVANT SPECIFICATION SECTIONS

Section 208 - Erosion Control

- a) 208.02 (h) Materials Erosion Logs
- b) 208.05 (1) Construction BMPS
- c) <u>208.11</u> Method of Measurement
- d) <u>208.12</u> Basis of Payment

4. RELEVANT M-STANDARD DETAILS

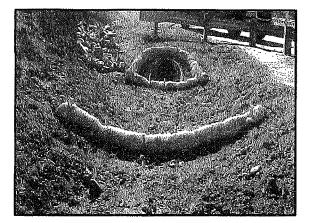
M-208-1, Sheet 2 of 11 (Erosion Log Applications)

<u>M-208-1</u>, Sheet 3 of 11 (Toe of Slope Protection Applications)

M-208-1, Sheet 6 of 11 (Erosion Log Installations)

5. BASIS OF PAYMENT

Pay Item	Description	Pay Unit
208-00012	Erosion Log Type 1 (9 inch)	LF
208-00002	Erosion Log Type 1 (12 inch)	LF
208-00013	Erosion Log Type 1 (20 Inch)	LF
208-00007	Erosion Log Type 2 (8 Inch)	ĻГ
208-00008	Erosion Log Type 2 (12 Inch)	LF
208+00009	Erosion Log Type 2 (18 Inch)	LF
208-00022	Erosion Log Type 3 (9 Inch)	LF
208-00023	Erosion Log Type 3 (12 Inch)	LF
208-00024	Erosion Log Type 3 (20 Inch)	LF
208-00026	Coir Roll	LF



Erosion Logs along construction access road

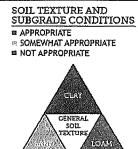
6. APPLICATIONS

- Use to intercept surface runoff, reduce flow velocities, and capture sediment.
- Where long slopes are present and at grade breaks, use Erosion Logs to prevent formation of concentrated flow paths.
- Upgradient of stormwater inlets, use Erosion Logs to filter sediment and capture debris.
- When vegetation hasn't established, use Erosion Logs as check dams in small drainage ditches.
- Use as perimeter control for stockpiles locations.

7. LIMITATIONS

- In ditches where continuous flows are expected, avoid using Erosion Logs
- Do not use below the ordinary high-water mark for stream applications.
- Can be dislodged after a storm event if appropriate anchoring is not provided.
- Only use as a temporary measure as bounding net is biodegradable and will release contents when degraded.

8. CONTROL MEASURE SOILS TRIANGLE



20. Silt Fence (SF)



COLORADO Department of Transportation

1. DESCRIPTION:

Silt Fence is a temporary, entrenched sediment barrier made from woven geotextile fabric (in some cases with wire backing) and stretched across supporting wooden posts. It is used to intercept stormwater runoff containing sediment loads. Silt Fence is intended to allow sediment in surface runoff to settle before runoff leaves the project site.

2. CONTROL MEASURE USES

- **Erosion Control**
- \boxtimes Sediment Control
- Site/Materials Management

3. RELEVANT SPECIFICATION SECTIONS

- Section 208 Erosion Control
- a) 208.02.(b) Materials
- 208.05.(c) Construction of Control Measures b)
- 208.11 Method of Measurement Ç)
- 208.12 Basis of Payment d)

4. RELEVANT M-STANDARD DETAILS

M-208-1, Sheet 3 of 11 (Toe of Slope Protection Applications)

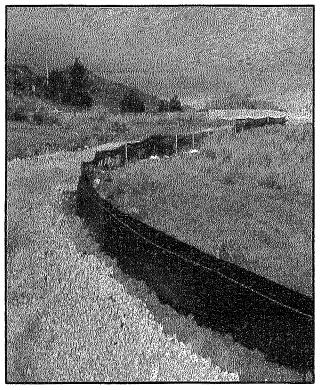
M-208-1, Sheet 8 of 11 (Silt Fence Applications)

5. BASIS OF PAYMENT

Pay item	Description	Pay Unit
208-00020	Silt Fence	LF
208-00021	Silt Fence (Reinforced)	LF

6. APPLICATIONS

- Downgradient of a disturbed area
- Along the perimeter of receiving waters (e.g. streams, ponds, and wetlands)
- Along the perimeter of a construction site ۵ (for example, staging area, and stabilized construction roads)
- Around temporary stockpiles
- At the toe of fill of exposed and erodible soils.



Silt fence along perimeter of stabilized construction road

7. LIMITATIONS

- Not for intercepting concentrated flows (streams, channels, drainage paths).
- Limit use to drainage basin areas of 0.25 acres or less.
- Not suitable for mid-slope protection on slopes steeper than 4H:1V.
- Not suitable as flow diversion.
- Not suitable for areas where continuous ponding occurs.

8. CONTROL MEASURE SOILS TRIANGLE

SOIL TEXTURE AND SUBGRADE CONDITIONS B APPROPRIATE **SOMEWHAT APPROPRIATE** ■ NOT APPROPRIATE GENERAL SOIL SAMP ROVNO ROCKY SUBORADE

PAGE 1 OF 3

1. Check Dam (CD)



1. **DESCRIPTION:**

Check Dams (also referred to as a ditch check) are temporary control structures that can be constructed from rock, silt berms, or erosion logs. Check Dams can be installed across natural or constructed, and temporary or permanent, drainage ditches. They are intended to reduce the velocity of concentrated flows and reduce erosion potential within the ditch.

2. CONTROL MEASURE USES

- 🖾 Erosion Control
- Sediment Control
- Site/Materials Management

3. RELEVANT SPECIFICATION SECTIONS

- Section 208 Erosion Control
- a) 208.02.(e)/(f) Materials
- b) 208.05.(g)/(h) Construction BMPS
- c) 208.11 Method of Measurement
- d) 208.12 Basis of Payment

4. <u>RELEVANT M-STANDARD DETAILS</u>

M-208-1, Sheet 11 of 11 (Rock Check Dam)

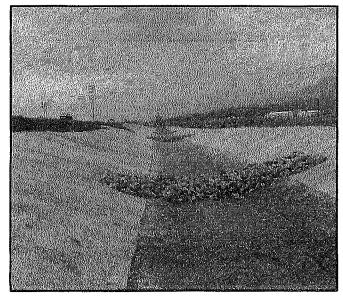
<u>M-208-1</u>, Sheet 6 of 11 (Drainage Ditch Applications)

5. BASIS OF PAYMENT

Pay item	Description	Pay Unit
208-00041	Rock Check Dam	EACH
208-00004	Silt Berm	LF

6. APPLICATIONS

- Used to intercept and filter concentrated flows and dissipate erosive energy.
- Used to intercept flows along drainage ditches or channels prior to seeding and during establishment of seeded areas.
- Erosion Logs may be used to temporarily construct Check Dam control measures. Refer to the Erosion Logs fact sheet (No. 17) for more information.



Rock check dam along lined drainage ditch

7. LIMITATIONS

- Use only in open channels that receive runoff from an area 10 acres or less.
- Use only in constructed drainage channels and ditches, never in natural live streams.
- For temporary use only, not to be used as primary sediment capture structures.
- For use in unvegetated channels only, not for use in wetland areas or areas where vegetation has been established as they will damage the existing vegetation.

8. CONTROL MEASURE SOILS TRIANGLE

SOIL TEXTURE AND SUBGRADE CONDITIONS

- APPROPRIATE
- SOMEWHAT APPROPRIATE
- INOT APPROPRIATE

