

HILL CAMP WATER BOOSTER PUMP STATION GRADING, EROSION, AND SEDIMENT CONTROL REPORT

November 2025

Prepared for:

Rampart Range Metropolitan District No. 1

2001 16th Street, Suite 1700

Denver, Colorado 80202

303-779-5710

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Prepared by:



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Merrick Project No. 101065

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LONE TREE PERMITTEES SIGNATURE PAGE

This Utility Grading, Erosion and Sediment Control (GESC) Report included herein has been prepared under my direct supervision in accordance with the requirements of the GESC Manual, as amended.

Carson Besgrove, P.E.
Colorado Registered Professional
Engineer No. 44849
For and on Behalf of Merrick & Company

Rampart Range Metropolitan District No. 1 (RRMD) hereby certifies that the GESC facilities for the Water Booster Station shall be constructed according to the design presented in this Report. I understand that the City of Lone Tree does not and will not assume liability for the GESC facilities designed and/or certified by my engineer and that the City of Lone Tree reviews GESC Plans; but cannot, on behalf of the Havana Water Main, guarantee that final review will absolve RRMD and/or their successors and/or assigns of future liability for improper design.

Rampart Range Metropolitan District No. 1

Authorized Signature

Note:

This Utility GESC Report has been placed in the Lone Tree file for this project and appears to fulfill the applicable Douglas County GESC Criteria, as amended. I understand that additional GESC measures may be required of the Permittees, due to unforeseen erosion problems or if the submitted plan does not function as intended. The requirements of this plan shall run with the land and be the obligation of the Permittees until such time as the plan is properly completed, modified or voided.

PROJECT DESCRIPTION

The Rampart Range Metropolitan District No. 1 (RRMD) is proposing to construct a water booster pump station within the City of Lone Tree to support the RidgeGate Development.

This project encompasses the construction of a water booster pump station located near the intersection of S Havana St and Surrey Dr. The entire 1.69 acre limits of construction will be permanently stabilized.

The site is located in Section 22 Township 6 South, Range 67 West of the Sixth Principal Meridian in the City of Lone Tree, County of Douglas, State of Colorado. Figure 1 below shows the location of the project site.

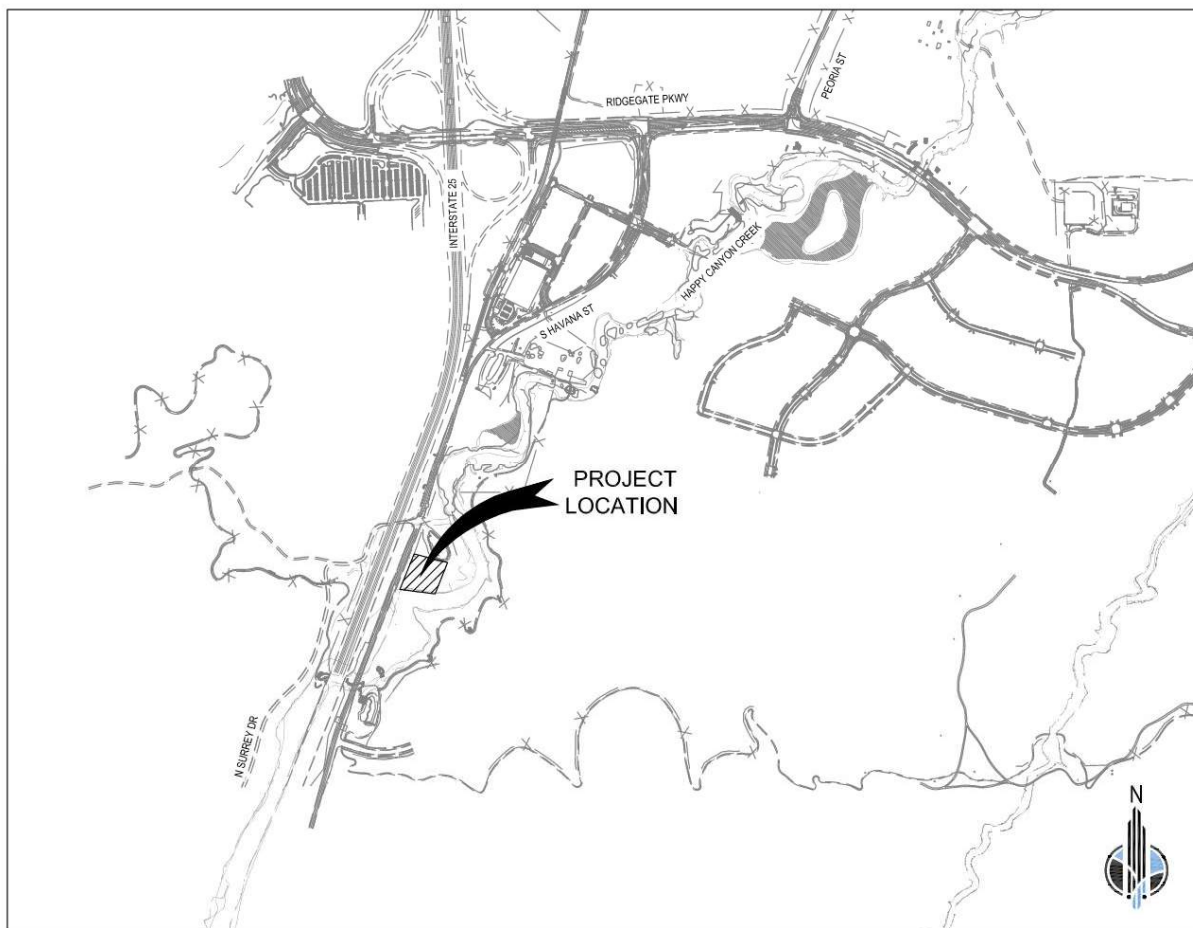


Figure 1 - Vicinity Map (not to scale)

EXISTING SITE CONDITIONS

The project site is currently undeveloped. The ground cover consists of a mixture of short and long grasses, weeds, and small and large bushes. The site drains to both Happy Canyon Creek as well as the adjacent City of Lone Tree Detention Pond.

The site is within flood hazard Zone X as shown in FIRM Map No. 08035C0063H, effective September 4, 2020. See Appendix B for FIRM Map.

ADJACENT AREAS

The site is bounded by S Havana St on the west, Happy Canyon Creek to the east, Schweiger Ranch to the north, and open space to the south.

SOILS

The predominant soil series for the site are:

- “Fu” Fondis-Kutch association, HSG C
- “Lo” Loamy alluvial land, HSG C

These soils both have a hydrologic soil group classification of C. See Appendix B for the Hydrologic Soil Group Map.

AREAS AND VOLUMES

The total area of 1.69 acres is defined by the limits of construction (LOC). There is grading associated with construction of the site. The earthwork volume for the site consists of approximately 8 cubic yards (CY) of cut and 2,084 CY of fill resulting in a net of 2,076 CY of fill for the site.

EROSION AND SEDIMENT CONTROL MEASURES

Prior to commencement of construction activities, silt fence (SF) and construction markers (CM) will be installed along the boundaries of the project site to define the LOC. Inlet protection (IP) will be installed on existing inlets impacted by the project. Primary access to the project will be through the proposed vehicle tracking control (VTC) pad as shown on the GESC Plan.

The staging area (SSA) shall be large enough to fully contain parking, storage, and unloading and loading operations. A concrete wash area (CWA) will be installed near the VTC entrance.

During the interim stage of construction, SF, CM, CWA, IP, VTC, and the SSA will be maintained per City of Lone Tree GESC requirements.

At completion of construction, the VTC, CWA, IP, SSA, and CM will be removed.

STORMWATER MANAGEMENT CONSIDERATIONS

Limited stormwater impacts are anticipated from this project. A permanent sediment basin will be constructed to provide water quality for the site while all other runoff will generally maintain its natural drainage pattern to the adjacent detention pond or Happy Canyon Creek.

MAINTENANCE

The GESC measures shall be inspected by the contractor on a weekly basis during construction. Erosion and sediment control measures shall be inspected within 24 hours of any rain or snowmelt event resulting in stormwater runoff as required by City of Lone Tree regulations. The standard notes and details in the *Grading Erosion, and Sediment Control Plan* shall be followed.

TIMING/PHASING SCHEDULE

The proposed construction schedule for this project is:

- Install initial BMPs – March 2026
- Begin construction activities and install interim BMPs – March 2026
- Complete grading, remove initial and interim BMPs, and install final BMPs – November 2026

The proposed construction is estimated to take 270 calendar days.

OPINION OF PROBABLE COST

According to the City of Lone Tree GESC Permit Opinion of Probable Cost spreadsheet the GESC Surety Total is \$8,822.46. A detailed cost estimate for erosion and sediment control is provided in Appendix A. Construction costs are not included in the estimate.

CALCULATIONS

No calculations were performed to create this plan set.

REFERENCES

1. Federal Emergency Management Agency Flood Insurance Rate Map, Map Number 08035C0063H, September 4, 2020.
2. Grading, Erosion and Sediment Control Manual, Douglas County, Colorado, Department of Public Works, <https://www.douglas.co.us/land/drainage-and-erosion-control/grading-erosion-and-sediment-control-manual-gesc-drainage-erosion-and-sediment-control-desc/>, July 2019.
3. National Cooperative Soil Survey for Castle Rock, Colorado, USDA, Web Soil Survey 1.1 [online], July 31, 2019, Accessed July 2025.

APPENDIX A – OPINION OF PROBABLE COSTS



CITY OF
LONE TREE

**GESC Permit
Opinion of Probable Cost**

Project: Water Booster Station				Date: July 23, 2025		
BMP No.	BMP	ID	Unit	Installation Unit Cost	Quantity	Cost
1	Check Dam	CD	LF	\$ 24.00	0	\$ -
2	Compost Blanket	CB	SF	\$0.36	0	\$ -
3	Compost Filter Berm	CFB	LF	\$ 2.00	0	\$ -
4	Concrete Washout Area	CWA	EA	\$ 100.00	1	\$ 100.00
5	Construction Fence	CF	LF	\$ 2.00	0	\$ -
6	Construction Markers	CM	LF	\$ 0.20	441	\$ 88.20
7	Curb Sock	CS	LF	\$ 8.00	0	\$ -
8	Dewatering	DW	EA	\$ 600.00	0	\$ -
9	Diversion Ditch	DD	LF	\$ 1.60	0	\$ -
10	Erosion Control Blanket	ECB	SY	\$ 5.00	0	\$ -
11	Inlet Protection	IP	LF	\$ 20.00	50	\$ 1,000.00
12	Reinforced Check Dam	RCD	LF	\$ 36.00	0	\$ -
13	Reinforced Rock Berm	RRB	LF	\$ 9.00	0	\$ -
14	RRB for Culvert Protection	RRC	LF	\$ 9.00	0	\$ -
15	Sediment Basin	SB	AC (1)	(2)	0.0	\$ -
16	Sediment Control Log	SCL	LF	\$ 2.00	0	\$ -
17	Sediment Trap	ST	EA	\$ 600.00	0	\$ -
18A	Seeding and Mulching - Mobilization	SM	EA	\$ 1,000.00	1	\$ 1,000.00
18B	Seeding and Mulching - Installation	SM	AC	\$ 750.00	1.4	\$ 1,057.50
19	Silt Fence	SF	LF	\$ 2.00	646	\$ 1,292.00
20	Stabilized Staging Area	SSA	SY	\$ 2.00	1,067	\$ 2,134.00
21	Surface Roughening	SR	AC	\$ 600.00	0.0	\$ -
22	Temporary Slope Drain	TSD	LF	\$ 30.00	0	\$ -
23	Temporary Stream Crossing	TSC	EA	\$ 1,000.00	0	\$ -
24	Terracing	TER	AC	\$ 600.00	0.0	\$ -
25	Vehicle Tracking Control	VTC	EA	\$ 1,000.00	1	\$ 1,000.00
26	VTC with Wheel Wash	WW	EA	\$ 1,500.00	0	\$ -
27	Temporary Batch Plant Restoration		AC	\$ 5,000.00	0.0	\$ -
(1) Upstream Tributary Acre				SUB-TOTAL		\$ 7,671.70
(2) SB Cost = \$1000 +\$200(Upstream Tributary Acres)				15% CONTINGENCY		\$ 1,150.76
				GESC SURETY TOTAL (1)		\$ 8,822.46

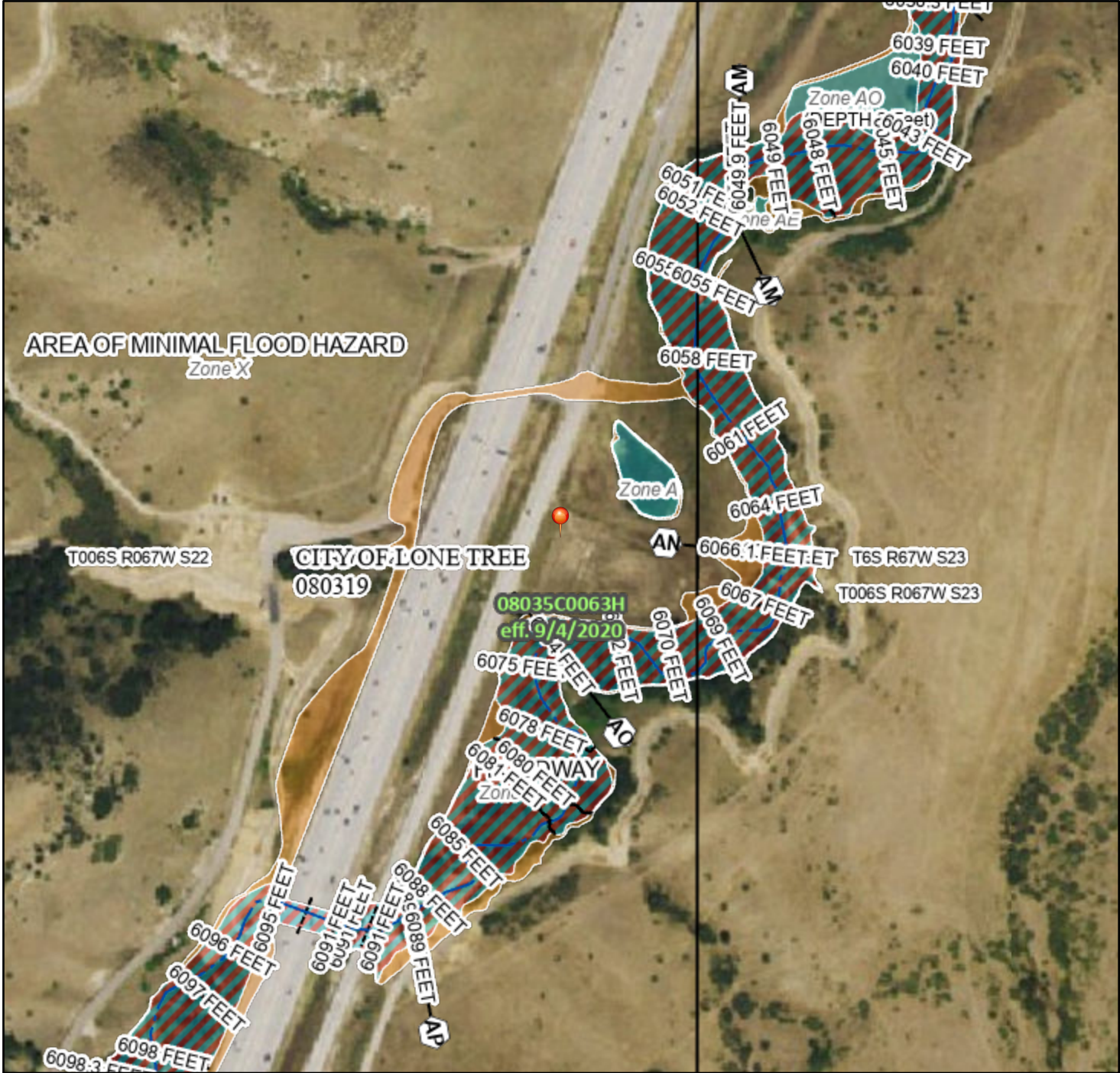
NOTE: (1) **MINIMUM SURETY shall be \$2,500.00** (Per Section 16-31-110 of City Zoning Code) (Rev. 1-18-12)

APPENDIX B – FIRM AND SOIL MAPS

National Flood Hazard Layer FIRMMette



104°52'26"W 39°31'N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°51'49"W 39°30'32"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/17/2025 at 3:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Hydrologic Soil Group—Castle Rock Area, Colorado



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Castle Rock Area, Colorado
 Survey Area Data: Version 17, Aug 29, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 1, 2023—Sep 1, 2023

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Fu	Fondis-Kutch association	C	0.7	19.1%
Lo	Loamy alluvial land	C	2.8	80.9%
Totals for Area of Interest			3.4	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

GESC Report

Hill Camp Water Booster Pump Station

Lone Tree, Colorado

APPENDIX C – GESC PLAN AND REPORT CHECKLISTS



Project:

Water Booster Station GESC

Date:

07/17/2025

All Plan Sheets

- | | | | |
|---|-----------------------------|------------------------------|--|
| Yes ☒ | No ☐ | N/A ☐ | 1. Title Block (consistent on all sheets) |
| Yes ☒ | No ☐ | N/A ☐ | 2. Legal Name (Subdivision Name and Filing Number) |
| Yes ☒ | No ☐ | N/A ☐ | 3. Sheet Number |
| Yes ☒ | No ☐ | N/A ☐ | 4. Graphic and Written Scale |
| Yes ☒ | No ☐ | N/A ☐ | 5. North Arrow |
| Yes ☒ | No ☐ | N/A ☐ | 6. Current Date of Plan Preparation |
| Yes ☒ | No ☐ | N/A ☐ | 7. City Acceptance Block (available upon request) |

Cover Sheet

- | | | | |
|---|-----------------------------|------------------------------|---|
| Yes ☒ | No ☐ | N/A ☐ | 1. Project name |
| Yes ☒ | No ☐ | N/A ☐ | 2. Project address |
| Yes ☒ | No ☐ | N/A ☐ | 3. Owner (and Applicant's if different) name and address |
| Yes ☒ | No ☐ | N/A ☐ | 4. Design firm's name and address |
| Yes ☒ | No ☐ | N/A ☐ | 5. Plan sheet index |
| Yes ☒ | No ☐ | N/A ☐ | 6. Original date of preparation and subsequent revisions |
| Yes ☒ | No ☐ | N/A ☐ | 7. The following note:

<p style="margin-left: 40px;">THE GRADING, EROSION AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PLACED IN THE CITY OF LONE TREE FILE FOR THIS PROJECT AND APPEARS TO FULFILL APPLICABLE LONE TREE GRADING, EROSION AND SEDIMENT CONTROL CRITERIA, AS AMENDED. ADDITIONAL GRADING, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE PERMITTEES DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE PERMITTEES, UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.</p> |
| Yes ☒ | No ☐ | N/A ☐ | 8. GESC Plan Designer's signature block with name, date, and Professional Engineer registration number. Signature block shall include the following note:

<p style="margin-left: 40px;">THE GRADING, EROSION AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE REQUIREMENTS OF THE GRADING, EROSION, AND SEDIMENT CONTROL (GESC) CRITERIA MANUAL OF DOUGLAS COUNTY AS AMENDED.</p> |
| Yes ☒ | No ☐ | N/A ☐ | 9. General Location Map (at a reasonable scale) indicating: <ul style="list-style-type: none"> a. general vicinity of the site location b. major roadway names c. north arrow and scale |

**GESC Drawing Index Sheet (if applicable)**

For projects that require multiple plan-view sheets to adequately show the project area (based on the specified scale ranges), a single plan-view sheet shall be provided at a scale appropriate to show the entire site on one sheet. Areas of coverage of the multiple blow-up sheets are to be indicated as rectangles on the index sheet.

Initial GESC Plan

Yes ☒	No ☐	N/A ☐	1.	Property Lines
Yes ☒	No ☐	N/A ☐	2.	Existing and proposed easements
Yes ☒	No ☐	N/A ☐	3.	Existing topography at one- or two-foot contour intervals, extending a minimum of 100 feet beyond the property line
Yes ☒	No ☐	N/A ☐	4.	Location of any existing structures or hydrologic features within the mapping limits
Yes ☒	No ☐	N/A ☐	5.	USGS Benchmark used for project
Yes ☒	No ☐	N/A ☐	6.	Limits of construction encompassing all areas of work, including: • Access points, storage and staging areas, borrow areas, stockpiles, and utility tie-in locations in on-site and off-site locations • Stream corridors and other resource areas to be preserved and all other areas outside the limits of construction shall be lightly shaded to clearly show area not to be disturbed.
Yes ☒	No ☐	N/A ☐	7.	Location of stockpiles, including topsoil, imported aggregates, and excess material
Yes ☒	No ☐	N/A ☐	8.	Location of storage and staging areas for equipment, fuel, lubricant, chemical (and other materials) and waste storage
Yes ☒	No ☐	N/A ☐	9.	Location of borrow or disposal areas
Yes ☒	No ☐	N/A ☐	10.	Location of temporary roads
Yes ☒	No ☐	N/A ☐	11.	Location, map symbol, and letter callouts of all initial erosion and sediment control BMPs
Yes ☒	No ☐	N/A ☐	12.	Information to be specified for each BMP, such as type and dimensions, as called for in the Standard Notes and Details
Yes ☒	No ☐	N/A ☐	13.	The following note: • SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
Yes ☒	No ☐	N/A ☐	14.	Other information as may be reasonably required by Lone Tree



Interim GESC Plan

- | | | | | |
|---|-----------------------------|------------------------------|----|---|
| Yes ☒ | No ☐ | N/A ☐ | 1. | Items 1, 2, and 4 through 10 from the Initial GESC Plan |
| Yes ☒ | No ☐ | N/A ☐ | 2. | Existing topography at one- or two-foot contour intervals extending a minimum of 100 feet beyond the property line, as shown on Initial GESC Plan. These contours shall be screened. |
| Yes ☒ | No ☐ | N/A ☐ | 2. | Location of all existing erosion and sediment control measures on site, as shown on the Initial GESC Plan Sheet. These control measures shall be screened. Dimension information for initial stage BMPs shall not be shown. |
| Yes ☒ | No ☐ | N/A ☐ | 3. | Proposed topography at one- or two-foot contour intervals, showing elevations, dimensions, locations, and slope of all proposed grading |
| Yes ☒ | No ☐ | N/A ☐ | 4. | Outlines of cut and fill areas |
| Yes ☒ | No ☐ | N/A ☐ | 5. | Location of all interim erosion and sediment controls, designed in conjunction with the proposed site topography, but also considering the controls designed for the existing topography. |
| Yes ☒ | No ☐ | N/A ☐ | 6. | Locations of all buildings, drainage features and facilities, paved areas, retaining walls, cribbing, water quality facilities, or other permanent features to be constructed in connection with, or as a part of, the proposed work, per approved plat, SIP, RSP, or other improvement plan. |
| Yes ☒ | No ☐ | N/A ☐ | 7. | <p>The following notes:</p> <ul style="list-style-type: none">• SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.• SHADED BMPS INSTALLED IN THE INITIAL STAGE SHALL BE LEFT IN PLACE IN THE INTERIM STAGE.• ALL INTERIM BMPS, INCLUDING SEEDING AND MULCHING OF DISTURBED AREAS, MUST BE COMPLETED PRIOR TO ISSUANCE OF ANY CURB AND GUTTER PERMITS.• SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, CULVERTS, STORM DRAINS, AND INLET AND OUTLET PROTECTION. |
| Yes ☒ | No ☐ | N/A ☐ | 8. | Summary of cut and fill volumes |
| Yes ☒ | No ☐ | N/A ☐ | 9. | Other information as may be reasonably required by Lone Tree |



Final GESC Plan

Yes ☒	No ☐	N/A ☐	1.	Items 1, 2, and 5 from the Initial GESC Plan
Yes ☒	No ☐	N/A ☐	2.	Existing topography in areas of proposed contours shall not be shown.
Yes ☒	No ☐	N/A ☐	3.	Existing Initial and Interim BMPs shall be shown (screened). Dimension information shall not be shown.
Yes ☒	No ☐	N/A ☐	4.	Directional flow arrows on all drainage features
Yes ☒	No ☐	N/A ☐	5.	Any Initial or Interim BMPs that are to be removed and any resulting disturbed area to be stabilized
Yes ☒	No ☐	N/A ☐	6.	Location of all Final erosion and sediment control BMPs (including seeding and mulching of any areas not stabilized in the Interim Plan), permanent landscaping, and measures necessary to minimize the movement of sediment off site until permanent vegetation can be established.
Yes ☒	No ☐	N/A ☐	7.	Show area of buildings, pavement, sod, and permanent landscaping (define types) per accepted improvement plan.
Yes ☒	No ☐	N/A ☐	8.	Show seeding and mulching (SM) everywhere except within the limits of buildings and pavement areas.
Yes ☒	No ☐	N/A ☐	9.	Show other BMPs considered by the designer to be appropriate.
Yes ☒	No ☐	N/A ☐	10.	Show the following BMPs to be removed prior to end of construction: • Indicate dewatering (DW) to be removed. • Indicate temporary stream crossings (TSC) to be removed. • Indicate stabilized staging area (SSA) to be removed. • Indicate street inlet protection (IP) to be removed. • Indicate vehicle tracking control (VTC) to be removed. • Indicate construction fence (CF) to be removed.
Yes ☒	No ☐	N/A ☐	11.	Include the following notes: • SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS. • SHADED BMPs INSTALLED IN THE INITIAL AND INTERIM GESC PLANS, UNLESS OTHERWISE INDICATED, SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE CITY. • SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, CULVERTS, STORM DRAINS, AND INLET AND OUTLET PROTECTION.
Yes ☒	No ☐	N/A ☐	12.	Other information as may be reasonably required by Lone Tree



GESC Report

- | | | | | |
|---|-----------------------------|------------------------------|-----|---|
| Yes ☒ | No ☐ | N/A ☐ | 1. | Name, Address, and Telephone Number of Applicant(s) – The name, address, and telephone number of the Professional Engineer preparing (or supervising the preparation of) the GESC Plan shall also be included, if different from the Applicant's. |
| Yes ☒ | No ☐ | N/A ☐ | 2. | Project Description – A brief description of the nature and purpose of the land-disturbing activity, the total area of the site, the area of disturbance involved, and project location including township, range, section and quarter section, or the latitude and longitude, of the approximate center of the project. |
| Yes ☒ | No ☐ | N/A ☐ | 3. | Existing Site Conditions – A description of the existing topography, vegetation, and drainage; a description of any wetlands on the site; and any other unique features of the property. |
| Yes ☒ | No ☐ | N/A ☐ | 4. | Adjacent Areas – A description of neighboring areas such as streams, lakes, residential areas, roads, etc., which might be affected by the land disturbance. |
| Yes ☒ | No ☐ | N/A ☐ | 5. | Soils – A brief description of the soils on the site including information on soil type and names, mapping unit, erodibility, permeability, hydrologic soil group, depth, texture, and soil structure (this information may be obtained from the soil report for the site, for adjacent sites if acceptable to the County, or the applicable Soil Survey prepared by the Natural Resources Conservation Service). |
| Yes ☒ | No ☐ | N/A ☐ | 6. | Areas and Volumes – An estimate of the quantity (in cubic yards) of excavation and fill involved (indicating a balance onsite), and the surface area (in acres) of the proposed disturbance. |
| Yes ☒ | No ☐ | N/A ☐ | 7. | Erosion and Sediment Control Measures – A description of the methods presented in the GESC Criteria Manual that will be used to control erosion and sediment on the site. |
| Yes ☒ | No ☐ | N/A ☐ | 8. | Timing/Phasing Schedule – A schedule indicating the anticipated starting and completion time periods of the site grading and/or construction sequence, including the installation and removal of erosion and sediment control BMPs. Indicate the anticipated starting and completion time periods of individual project phases. |
| Yes ☒ | No ☐ | N/A ☐ | 9. | Permanent Stabilization – A brief description, including applicable specifications, of how the site will be stabilized after construction is completed. |
| Yes ☒ | No ☐ | N/A ☐ | 10. | Stormwater Management Considerations – Explain how stormwater runoff from and through the site will be handled during construction. |
| Yes ☒ | No ☐ | N/A ☐ | 11. | Maintenance – Any special maintenance requirements over and above what is identified in the standard notes and details. |
| Yes ☒ | No ☐ | N/A ☐ | 12. | Opinion of Probable Cost (City Format) – An opinion of probable costs for erosion and sediment control, including anticipated maintenance during the construction phase, shall be submitted with the GESC Plan. This will be reviewed by City staff and used as a basis for fiscal security. Electronic or paper copies of the spreadsheet to be used for preparing the opinion of probable costs for erosion and sediment control are available upon request. Unit costs used to develop probable erosion and sediment control costs shall be those shown in the spreadsheet. |



Yes ☐	No ☐	N/A ☒	13. <u>Calculations</u> – Any calculations made for the design of such items as sediment basins or erosion control blanket selection.
Yes ☐	No ☐	N/A ☒	14. <u>Other Information</u> – As may be reasonably required by Lone Tree.
Yes ☒	No ☐	N/A ☐	15. <u>The Following Note</u> – “This Grading, Erosion and Sediment Control Plan has been placed in the Lone Tree file for this project and appears to fulfill the applicable Douglas County Grading, Erosion and Sediment Control Criteria, as amended. I understand that additional grading, erosion and sediment control measures may be required of the Permittees, due to unforeseen erosion problems or if the submitted plan does not function as intended. The requirements of this plan shall run with the land and be the obligation of the Permittees until such time as the plan is properly completed, modified or voided.”
Yes ☒	No ☐	N/A ☐	16. <u>Signature Page for Permittees</u> - Acknowledging the review and acceptance of responsibility, and a statement by the Professional Engineer acknowledging responsibility for the preparation of the GESC Plan (available upon request).

Preparer's Signature _____

07/17/2025
Date _____

GESC Report

Hill Camp Water Booster Pump Station

Lone Tree, Colorado

APPENDIX D – GESC PLAN DRAWINGS
