



Project:	Date:
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All Plan Sheets

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

Cover Sheet

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

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.

- | | | | |
|------------------------------|-----------------------------|------------------------------|---|
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 8. GESC Plan Designer's signature block with name, date, and Professional Engineer registration number. Signature block shall include the following note: |
|------------------------------|-----------------------------|------------------------------|---|

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.**

- | | | | |
|------------------------------|-----------------------------|------------------------------|--|
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 1. | Property Lines |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 2. | Existing and proposed easements |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 3. | Existing topography at one- or two-foot contour intervals, extending a minimum of 100 feet beyond the property line |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 4. | Location of any existing structures or hydrologic features within the mapping limits |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 5. | USGS Benchmark used for project |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 6. | Limits of construction encompassing all areas of work, including: <ul style="list-style-type: none"> • 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 7. | Location of stockpiles, including topsoil, imported aggregates, and excess material |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 8. | Location of storage and staging areas for equipment, fuel, lubricant, chemical (and other materials) and waste storage |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 9. | Location of borrow or disposal areas |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 10. | Location of temporary roads |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 11. | Location, map symbol, and letter callouts of all initial erosion and sediment control BMPs |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 12. | Information to be specified for each BMP, such as type and dimensions, as called for in the Standard Notes and Details |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 13. | The following note: <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. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 14. | Other information as may be reasonably required by Lone Tree |



Interim GESC Plan

- | | | | | |
|------------------------------|-----------------------------|------------------------------|----|---|
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 1. | Items 1, 2, and 4 through 10 from the Initial GESC Plan |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 3. | Proposed topography at one- or two-foot contour intervals, showing elevations, dimensions, locations, and slope of all proposed grading |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 4. | Outlines of cut and fill areas |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 7. | The following notes: <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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 8. | Summary of cut and fill volumes |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 9. | Other information as may be reasonably required by Lone Tree |



Final GESC Plan

- | | | | | |
|------------------------------|-----------------------------|------------------------------|-----|---|
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 1. | Items 1, 2, and 5 from the Initial GESC Plan |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 2. | Existing topography in areas of proposed contours shall not be shown. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 3. | Existing Initial and Interim BMPs shall be shown (screened). Dimension information shall not be shown. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 4. | Directional flow arrows on all drainage features |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 5. | Any Initial or Interim BMPs that are to be removed and any resulting disturbed area to be stabilized |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 7. | Show area of buildings, pavement, sod, and permanent landscaping (define types) per accepted improvement plan. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 8. | Show seeding and mulching (SM) everywhere except within the limits of buildings and pavement areas. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 9. | Show other BMPs considered by the designer to be appropriate. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 10. | Show the following BMPs to be removed prior to end of construction: <ul style="list-style-type: none"> • 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 11. | Include the following notes: <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 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 12. | Other information as may be reasonably required by Lone Tree |



GESC Report

- | | | | | |
|------------------------------|-----------------------------|------------------------------|-----|---|
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 1. | <u>Name, Address, and Telephone Number of Applicant(s)</u> – 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 2. | <u>Project Description</u> – 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 3. | <u>Existing Site Conditions</u> – 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 4. | <u>Adjacent Areas</u> – A description of neighboring areas such as streams, lakes, residential areas, roads, etc., which might be affected by the land disturbance. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 5. | <u>Soils</u> – 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 6. | <u>Areas and Volumes</u> – 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 7. | <u>Erosion and Sediment Control Measures</u> – A description of the methods presented in the GESC Criteria Manual that will be used to control erosion and sediment on the site. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 8. | <u>Timing/Phasing Schedule</u> – 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 <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 9. | <u>Permanent Stabilization</u> – A brief description, including applicable specifications, of how the site will be stabilized after construction is completed. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 10. | <u>Stormwater Management Considerations</u> – Explain how stormwater runoff from and through the site will be handled during construction. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 11. | <u>Maintenance</u> – Any special maintenance requirements over and above what is identified in the standard notes and details. |
| Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | 12. | <u>Opinion of Probable Cost (City Format)</u> – 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 <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	13. <u>Calculations</u> – Any calculations made for the design of such items as sediment basins or erosion control blanket selection.
Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	14. <u>Other Information</u> – As may be reasonably required by Lone Tree.
Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	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 <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>	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 _____

Date _____