PROJECT DESCRIPTION

Project description (proposed land use), nature of construction at site, and proposed schedule

Total area of the site (acres)

Total area of the limits of construction (acres)

Total area of expected land disturbance (acres)

Project location (latitude and longitude at the expected main entrance to site)

EXISTING SITE CONDITIONS

Describe the existing topography, drainage patterns, and the percent cover from native vegetation on the site if the site is undisturbed, or the percent cover from native vegetation in a similar, local undisturbed area or adequate reference area if the site is disturbed. Include the methodology for determining the percentage and include reference photos on Sheet 2.

STORMWATER MANAGEMENT CONSIDERATIONS

Description of the general flow direction and where or how the discharge leaves the Limits of Construction, including a description of the immediate conveyance or area receiving the discharge and the receiving water(s) of the discharge, if different than the immediate conveyance or area receiving the discharge. If the stormwater discharge is to a municipal separate storm sewer system, include the name of the entity owning that system, the location(s) of the stormwater discharge, and the receiving water(s).

Description of how stormwater runoff from and through the site will be handled during construction.

SOILS

Discuss distinct types of soil anticipated on the site considering NRCS soil types and visual clues such as prior site disturbance and quality of vegetation

Topsoil testing results for agronomic parameters including texture, salts, organic matter, pH, and nutrients by an agronomic soils testing laboratory (onsite and import). Sites that will be stabilized independent of seed or have less than 1,000 square feet of proposed seed areas may be exempt from the topsoil quality analysis requirements.

Per Table 7.1 in the GESC Manual, characterize the suitability of the topsoil. Unsuitable topsoil is not adequate for use. Quantify topsoil from other areas of the site that have no unsuitable parameters or import of adequate topsoil.

For organic matter or nutrients found to be Marginal based on test results, propose amendments to change the quality from Marginal to Suitable or Ideal. Quantify topsoil from other areas of the site that have no unsuitable parameters or import of adequate topsoil.

FINAL STABILIZATION

Discuss permanent stabilization (buildings, pavement or hardscape, sod, seeding, landscaping, etc.)

CONTROL MEASURES

Discuss for each of the following pollutant sources what structural and/or non-structural control measures will be selected, designed, installed, implemented, and maintained.

Land disturbance and storage of soils

Vehicle tracking

Loading and unloading operations

Outdoor storage of construction site materials, building materials, fertilizers, and chemicals

Bulk storage of materials

Vehicle and equipment maintenance and fueling

Significant dust or particle generating processes

Concrete truck/equipment washing, including the chute and associated fixtures and equipment

Dedicated asphalt and concrete batch plants

Other areas or operations where spills can occur and management of contaminated soil

Routine maintenance activities involving fertilizers, pesticides, detergents, fuels, solvents, and oils

Other non-stormwater discharges including dewatering not covered by a CDPS permit and wash water that may contribute to pollutants. Non-industrial waste sources (portable toilets, worker trash)? Note proposed use of CDPHE-WQCD Low Risk Discharge Guidance Policy.

Other potential pollutants

SOUTHEAST METRO STORMWATER AUTHORITY
7437 SOUTH FAIRPLAY STREET
CENTENNIAL COLORADO
80112-4486

SOUTHEAST METRO Stormwater Authority

GRADING, EROSION, AND SEDIMENT CONTROL (GESC) NARRATIVE SHEET

SEED MIX

Seed mix (if different from SEMSWA standard seed mix)

CALCULATIONS AND SIZING

Please provide the applicable calculations noted as necessary in the GESC Manual and Standard Notes and Details, including the following:

Cut Back Curb (CBC) - required length, width and depth of sediment storage for disturbed tributary area.
Check Dam (CD) - required length, crest length, and depth
Diversion Ditch (DD) - longitudinal slope, minimum width, depth, and if DD is lined or unlined based on site conditions to include flow, longitudinal slope, soil type
Erosion Control Blanket (ECB) - sized for the shear stress from a 2-year return period event for site conditions expected during the operation of the matting
Reinforced Check Dam (RCD) - required length, crest length, and depth
Sediment Basin (SB) - orifice hole diameter and number or holes, overflow crest length, bottom length and width, pipe diameter
Sediment Trap (ST) - length and width
Slope Intercept Ditch (SID) - depth
Temporary Stream Crossing (TSC) - length, crest length, crossing height, number of pipes and diameter, type of pipe
Vehicle Tracking Control (VTC) - length, if less than 50-feet

CALCULATIONS AND SIZING (CONT.)

PHOTOS

Include existing site conditions reference photos below for areas where final stabilization is vegetation.

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