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EPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT

Y - Satisfies criteria

N - Needs to be addressed

EL PASO COUNTY
GRADING AND EROSION CONTROL CHECKLIST

EPC Project Number: SF2435

		Applicant	EPC
Part I. Grading and Erosion Control Plan (Note: complete form using Y, N, N/A in the "Applicant" column)			
A	Vicinity map	X	Y
B	North arrow and acceptable scale (1"=20' to 1"=100')	X	Y
C	Labels for adjacent city/town/jurisdictional boundaries, subdivision names, and property parcel numbers	X	Y
D	Legend for all symbols used in the plan	X	Y
E	Existing and proposed property lines, including proposed subdivision boundaries for subdivision projects. Disturbances outside of property line require written permission from owner	X	Y
F	Existing structures	X	Y
G	Existing utilities	X	Y
H	Existing and proposed easements (permanent and construction), including required off-site easements	X	Y
I	FEMA 100-yr floodplain	X	Y
J	Location and names of all springs, streams, wetlands, diversions, and other state waters within or bordering the site, including areas that require pre-existing vegetation be maintained within 50 feet of a receiving state water. Show maintenance of pre-existing vegetation within 50 feet of a receiving water	X	Y
K	Existing vegetation (notes are acceptable in cases where there is no notable vegetation, only grasses/weeds, or site has already been stripped)	X	Y
L	Proposed construction site boundaries and limits of disturbance. Show each as separate line types on the legend and map, unless they are the same, then show as "limits of disturbance and limits of construction site"	X	Y
M	Existing and proposed contours 2 feet or less	X	Y
N	Existing and proposed flow arrows depicting stormwater flow directions on and off-site	X	Y
O	Proposed areas of cut and fill	X	Y
P	All proposed temporary construction control measures, structural and non-structural. Temporary construction control measures shall be identified by phase of implementation to include "initial," "interim," and "final" or shown on separate phased maps identifying each phase	X	Y
Q	Proposed slopes steeper than 3:1 with top and toe of slope delineated. Erosion control blanketing or other protective covering required	N/A	Y
R	Areas used for staging, storage of building materials, storage of soils (stockpiles) or waste accumulation, including areas for liquid, concrete, masonry, and asphalt	X	Y
S	Vehicle tracking provided at all construction entrances/exits. Construction fencing, barricades, and/or signage provided at access points not to be used for construction	X	Y
T	Location of any dedicated asphalt or concrete batch plants and masonry mixing stations	N/A	N/A

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U	Location of all stream crossings located within the construction site boundary and provide a detail for the temporary crossing	X	Y
V	Dewatering operations to include locations of diversion, pump and discharge(s) as anticipated at time of design	X	N
W	Temporary sediment ponds provided for disturbed drainage areas greater than 1 acre	X	Y
X	Details for all proposed temporary construction control measures to include information on dimensions, installation, materials, and maintenance requirements. Custom or other jurisdiction's details used must meet or exceed EPC standards	X	Y
Y	Location and name(s) of all existing and proposed Permanent Controls Measures (PCMs) that the site is tributary to, including conveyance systems (e.g., piping, roadside ditches, irrigation ditches, other non-state waters)	N/A	Y
Z	Identify and incorporate recommended mitigation outlined in the Soils Report regarding slopes, embankments, materials, groundwater, etc.	X	Y
AA	For standalone GEC Plan, include the following text (to be signed and stamped by a Colorado P.E.): Engineer's Statement: This Grading and Erosion Control Plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said Plan has been prepared according to the criteria established by the County for Grading and Erosion Control Plans. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparing this plan. _____ _____ Engineer of Record Signature Date	X	Y
BB	For GEC Plan within Construction Drawing set, include the following text (to be signed and stamped by a Colorado P.E.): Engineer's Statement: These detailed plans and specifications were prepared under my direction and supervision. Said plans and specifications have been prepared according to the criteria established by the County for detailed roadway, drainage, grading and erosion control plans and specifications, and said plans and specifications are in conformity with applicable master drainage plans and master transportation plans. Said plans and specifications meet the purposes for which the particular roadway, and drainage facilities are designed and are correct to the best of my knowledge and belief. I accept responsibility for any liability caused by any negligent acts, errors or omissions on my part in preparation of these detailed plans and specifications. _____ _____ Engineer of Record Signature Date	N/A	N/A

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CC	For standalone GEC Plan, include the following text: Owner's Statement: I, the owner/developer, have read and will comply with the requirements of the Grading and Erosion Control Plan. _____ _____ Owner Signature Date	X	
DD	For GEC Plan within Construction Drawing set, include the following text: Owner's Statement: I, the owner/developer, have read and will comply with the requirements of the Grading and Erosion Control Plan and all of the requirements specified in these detailed plans and specifications. _____ _____ Owner Signature Date	N/A	
EE	Include the following text: El Paso County: County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The County through the approval of this document assumes no responsibility for completeness and/ or accuracy of this document. Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual Volumes 1 and 2, and Engineering Criteria Manual, as amended. In accordance with ECM Section 1.12, these construction documents will be valid for construction for a period of 2 years from the date signed by the El Paso County Engineer. If construction has not started within those 2 years, the plans will need to be resubmitted for approval, including payment of review fees at the Planning and Community Development Director's discretion. _____ _____ Joshua Palmer, P.E. Date County Engineer/ECM Administrator	X	

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Part II. Standard Notes For El Paso County Grading and Erosion Control Plans			
1	Notwithstanding anything depicted in these plans in words or graphic representation, all design and construction related to roads, storm drainage, and erosion control shall conform to the standards and requirements of the most recent version of the relevant adopted El Paso County (EPC) standards, including the Land Development Code (LDC), the Engineering Criteria Manual (ECM), the Drainage Criteria Manual (DCM) Volume 1 and 2. Any deviations from regulations and standards must be requested, and approved, in writing.	X	Y
2	A Preconstruction Meeting between the Permit Holder(s) and El Paso County shall be held prior to any Construction Activities. It is the responsibility of the Permit Holder(s) to coordinate the meeting time and place with County staff. No land disturbance or Construction Activities beyond the installation of the initial Construction Control Measures (CCMs), as indicated on the approved GEC Plan or CDs with GEC Plans, may occur prior to receiving a Notice to Proceed (NTP) issued by the ECM Administrator. Failure to obtain a Notice to Proceed prior to beginning land disturbing activities may result in an immediate Stop Work Order (SWO).	X	Y
3	Construction Control Measures must be installed prior to commencement of activities that could contribute pollutants to stormwater. Stormwater runoff from all disturbed areas and soil storage areas must utilize or flow to one or more CCM(s) to minimize erosion or sediment in the discharge. The CCM(s) must contain or filter flows in order to prevent the bypass of flows without treatment and must be appropriate for stormwater runoff from disturbed areas and for the expected flow rate, duration, and flow conditions (e.g., sheet or concentrated flow).	X	Y
4	All CCMs shall be maintained and remain in effective operating condition until Final Stabilization is achieved. The Qualified Stormwater Manager (QSM) shall assess the adequacy of CCMs at the site and identify if changes to those CCMs are needed to ensure the continued effective performance of the CCMs.	X	Y
5	Prior to construction the Permit Holder(s) shall verify the location of existing utilities.	X	Y
6	Management of the Stormwater Management Plan (SWMP) during construction is the responsibility of the designated QSM. The SWMP shall be located on-site or digitally accessible at all times during Construction Activities and must be implemented as written from the start of Construction Activity until Final Stabilization is achieved. The QSM shall amend the SWMP when there is a change in design, construction, operation, or maintenance of the site which would require the implementation of new or revised CCMs or if the SWMP proves to be ineffective in controlling pollutants in stormwater runoff associated with construction activity or when CCMs are no longer necessary and are removed. The QSM shall maintain a record of amendments made to the SWMP that includes the date and identification of the changes.	X	Y

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7	Earth disturbances shall be conducted in such a manner so as to effectively minimize accelerated soil erosion and resulting sedimentation. All disturbances shall be designed, constructed, and completed so that the exposed area of any disturbed land shall be limited to the shortest practical period of time. Pre-existing vegetation shall be protected and maintained within 50 horizontal feet of a receiving water unless shown to be infeasible and specifically requested and approved. In addition to maintaining 50 horizontal feet of pre-existing vegetation upgradient of a receiving water (unless infeasible and approved), the Permit Holder(s) must install CCMs upgradient of the vegetative buffer.	X	Y
8	Temporary stabilization measures shall be implemented on disturbed areas and stockpiles where ground disturbing construction activity has permanently ceased or temporarily ceased for longer than 14 days.	X	Y
9	Erosion control blanket (ECB) or other approved control measure(s) shall be used on slopes steeper than 3:1.	X	Y
10	Vehicle tracking controls (VTC) must be implemented to minimize vehicle tracking of sediment from disturbed areas. VTCs must include a structure control measure (e.g., tracking pad) and may include a non-structural control measure (e.g., sweeping). Material tracked off-site shall be cleaned up and properly disposed of immediately.	X	Y
11	Any temporary or permanent Control Measure designed and constructed for the conveyance of stormwater around, through, or from the earth disturbance area shall be a stabilized conveyance designed to minimize erosion and the discharge of sediment off-site.	X	Y
12	No person shall cause the impediment of stormwater flow in the curb and gutter, Permanent Control Measures (PCMs), or ditches except with approved sediment control measures.	X	Y
13	All PCMs shall be installed as designed in the approved plans. Any proposed changes that affect the design or function of PCMs must be approved by the ECM Administrator prior to implementation.	X	Y
14	Soil compaction must be minimized in areas where infiltration PCMs will be installed or in areas where Final Stabilization will be achieved by vegetative cover. Areas designated for infiltration PCMs shall also be protected from sedimentation during construction until Final Stabilization is achieved. If soil compaction does occur in areas where Final Stabilization will be achieved by vegetative cover or in areas where infiltration PCMs will be installed, decompaction of the soil must be completed prior to planting or installation of the PCM(s). An infiltration test must be conducted for all infiltration PCMs and the infiltration test results submitted to El Paso County prior to Preliminary Acceptance (PA).	X	Y

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15	Final stabilization must be implemented at all applicable construction sites. Final stabilization is achieved when all ground disturbing activities at the site have been completed and permanent stabilization methods are complete. When using vegetative cover as a permanent stabilization method, the vegetation shall be evenly distributed perennial vegetation and of the variety and species found in the County-approved seed mixes or in the approved GEC Plan. Vegetation coverage shall be, at a minimum, equal to 70% of what would have been provided by native vegetation in a local, undisturbed area or adequate reference site. All temporary CCMs shall be removed upon final stabilization and prior to Stormwater Permit Termination.	X	Y
16	Stormwater discharges from construction sites shall not cause or threaten to cause pollution, contamination, or degradation of State Waters. All work and earth disturbance shall be done in a manner that minimizes pollution of any on-site or off-site waters, including wetlands.	X	Y
17	Concrete wash water shall be contained and disposed of in accordance with the SWMP. No wash water shall be discharged to or allowed to be discharged offsite or to enter State Waters, including any surface or subsurface storm drainage system or Control Measures. Concrete washout areas shall not be located in an area where shallow groundwater may be present, or within 50 feet of a surface water body, creek, or stream.	X	Y
18	During construction dewatering operations, uncontaminated groundwater may be discharged on-site in accordance with the Colorado Department of Public Health and Environment's (CDPHE) Low Risk Discharge Guidance Policy for Discharges of Uncontaminated Groundwater to Land. If construction dewatering operations are unable to meet all criteria, conditions, and control measure requirements of the Low Risk Discharge Guidance Policy, a Colorado Discharge Permit System (CDPS) General Permit COG080000 will be required.	X	Y
19	Contractor shall be responsible for the removal of all waste from the construction site for disposal in accordance with local and State regulatory requirements. No construction debris, tree slash, building material wastes, or unused building materials shall be buried, dumped, or discharged at the site.	X	Y
20	The Permit Holder(s) shall be responsible for the removal of all construction debris, dirt, trash, rock, sediment, soil, and sand that may accumulate in roads, storm drains and other drainage conveyance systems and stormwater appurtenances as a result of site development.	X	Y
21	The quantity of materials stored on the project site shall be limited, as much as practical, to that quantity required to perform the work in an orderly sequence. All materials stored on-site shall be stored in a neat, orderly manner, in their original containers, with original manufacturer's labels.	X	Y
22	Materials shall not be temporarily placed or stored in the street, alley, or other public way, unless in accordance with an approved Traffic Control Plan. Appropriate CMs shall be utilized based on specific conditions and circumstances.	X	Y

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23	Bulk storage (i.e., individual containers of 55 gallons or greater) of allowed petroleum products or other allowed liquid shall require adequate secondary containment, or equivalent protection, to contain all spills on-site and to prevent any spilled materials from entering State Waters, any surface or subsurface storm drainage system, or other facilities.	X	Y
24	No chemical(s) having the potential to be released in stormwater are to be stored or used on-site unless permission for the use of such chemical(s) is granted in writing by the ECM Administrator. In granting approval for the use of such chemical(s), special conditions and monitoring may be required.	X	Y
25	On areas of exposed soil, minimize dust through the appropriate application of water or other dust suppression techniques. Water application must be conducted in a manner to prevent discharge offsite unless authorized by a CDPS or National Pollutant Discharge Elimination System (NPDES) permit.	X	Y
26	All construction traffic must enter/exit the site only at approved construction access points.	X	Y
27	For sites where a Soils Report is required, the approved Soils Report for this site shall be considered a part of these plans.	X	Y
28	Permit Holder(s) and their agents shall comply with the "Colorado Water Quality Control Act" (Title 25, Article 8, CRS), and the "Clean Water Act" (33 USC 1344), in addition to the requirements of the Land Development Code, Drainage Criteria Manual Volume 2, and Engineering Criteria Manual. All applicable local, state, and federal permits must be obtained prior to construction. In the event of conflicts between these requirements and other laws, rules, or regulations of other Federal, State, local, or County agencies, the most restrictive laws, rules, or regulations shall apply.	X	Y
29	At least ten (10) days prior to the anticipated start of construction, for projects that will disturb one (1) acre or more or less than 1 acre and part of a larger common plan of development or sale that would disturb 1 or more acres, the Permit Holder(s) shall submit a permit application for stormwater discharge (COR400000 Permit) to the CDPHE Water Quality Division. The application contains certification of completion of a SWMP, of which this GEC Plan may be a part. For information or application materials contact: Colorado Department of Public Health and Environment Water Quality Control Division WQCD – Permits 4300 Cherry Creek Drive South Denver, CO 80246-1530 Attn: Permits Unit	X	Y

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Part III. Applicant Comments (as needed)