

EL PASO COUNTY GRADING AND EROSION CONTROL PLAN CHECKLIST

FAWWA Water Treatment

EPC Project Number: Revised: October 2021 Applicant EPC 1. GRADING AND EROSION CONTROL PLAN (complete form using Y, N, N/A in the "Applicant" column) а Vicinity map Adjacent city/town/jurisdictional boundaries, subdivision names, and property parcel numbers b labeled North arrow and acceptable scale (1"=20' to 1"=100') С Legend for all symbols used in the plan d Existing and proposed property lines. Proposed subdivision boundary for subdivision projects е f All existing structures All existing utilities g Construction site boundaries h Existing vegetation (notes are acceptable in cases where there is no notable vegetation, only i grasses/weeds, or site has already been stripped) FEMA 100-yr floodplain i Existing and proposed water courses including springs, streams, wetlands, detention ponds, stormwater quality structures, roadside ditches, irrigation ditches and other water surfaces. Show k maintenance of pre-existing vegetation within 50 feet of a receiving water Existing and proposed contours 2 feet or less (except for hillside) Т Limits of disturbance delineating all anticipated areas of soil disturbance m Identify and protect areas outside of the construction site boundary with existing fencing, n construction fencing or other methods as appropriate Off-site grading clearly shown and called out 0 р Areas of cut and fill identified Conclusions from soils/geotechnical report and geologic hazards report incorporated in grading q design (slopes, embankments, materials, mitigation, etc.) Proposed slopes steeper than 3:1 with top and toe of slope delineated. Erosion control blanketing r or other protective covering required Stormwater flow direction arrows S Location of any dedicated asphalt / concrete batch plants t Areas used for staging, storage of building materials, soils (stockpiles) or wastes. The use of u construction office trailers requires PCD permitting 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 Vehicle tracking provided at all construction entrances/exits. Construction fencing, barricades, W and/or signage provided at access points not to be used for construction Temporary sediment ponds provided for disturbed drainage areas greater than 1 acre Х



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у	Dewatering operations to include locations of diversion, pump and discharge(s) as anticipated at time of design		
z	All proposed temporary construction control measure details. Custom or other jurisdiction's details used must meet or exceed EPC standards		
aa	Any off-site stormwater control measure proposed for use by the project and not under the direct control or ownership of the Owner or Operator		
bb	Existing and proposed permanent storm water management facilities, including areas proposed for stormwater infiltration or subsurface detention		
сс	Existing and proposed easements (permanent and construction) including required off-site easements		
dd	Retaining walls shall not to be located in County ROW unless approved via license agreement. A building permit from Regional Building Department is required for walls greater than or equal to 4 feet in height, series of walls, or walls supporting a surcharge and must be design by P.E.		
ee	Plan certified by a Colorado Registered P.E., with EPC standard signature blocks for Engineer, Owner and EPC		
ff	Engineer's Statement (for standalone GEC Plan): 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		
gg	Engineer's Statement (for GEC Plan within Construction Drawing set): 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		
hh	Owner's Statement (for standalone GEC Plan): I, the owner/developer have read and will comply with the requirements of the Grading and Erosion Control Plan.		
	Owner Signature Date		
ii	Owner's Statement (for GEC Plan within Construction Drawing set): 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		



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ij	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. Jennifer Irvine, P.E. Date County Engineer/ECM Administrator		
2. <u>A</u>	ADDITIONAL REPORTS/PERMITS/DOCUMENTS		
а	Soils report / geotechnical investigation as appropriate for grading/utilities/drainage/road construction.		
b	Use Agreement/easement between the Owner or Operator and other third party for use of all off- site grading or stormwater control measures, used by the owner or operator but not under their direct control or ownership.		
С	Floodplain Development Permit		
d	USACE 404/wetlands permit/mitigation plan		
е	FEMA CLOMR		
f	State Engineer's permit/Notice Of Intent to Construct		
g	Stormwater Management Plan (SWMP)		
h	Financial Assurance Estimate (FAE) (signed) - TO BE SIGNED		
i	Erosion and Stormwater Quality Control Permit (ESQCP) (signed) - TO BE SIGNED		
j	Pre-Development Site Grading Acknowledgement & Right of Access Form (signed)		
k	Conditions of Approval met?		



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3. <u>s</u>	STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS		
1	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.		
2	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 standards, including the Land Development Code, the Engineering Criteria Manual, the Drainage Criteria Manual Volume 2. Any deviations from regulations and standards must be requested, and approved, in writing.		
3	A separate Stormwater Management Plan (SMWP) for this project shall be completed and an Erosion and Stormwater Quality Control Permit (ESQCP) issued prior to commencing construction. Management of the SWMP during construction is the responsibility of the designated Qualified Stormwater Manager or Certified Erosion Control Inspector. The SWMP shall be located on-site at all times during construction and shall be kept up to date with work progress and changes in the field.		
4	Once the ESQCP is approved and a "Notice to Proceed" has been issued, the contractor may install the initial stage erosion and sediment control measures as indicated on the approved GEC. A Preconstruction Meeting between the contractor, engineer, and El Paso County will be held prior to any construction. It is the responsibility of the applicant to coordinate the meeting time and place with County staff.		
5	Control measures must be installed prior to commencement of activities that could contribute pollutants to stormwater. Control measures for all slopes, channels, ditches, and disturbed land areas shall be installed immediately upon completion of the disturbance.		
6	All temporary sediment and erosion control measures shall be maintained and remain in effective operating condition until permanent soil erosion control measures are implemented and final stabilization is established. All persons engaged in land disturbance activities shall assess the adequacy of control measures at the site and identify if changes to those control measures are needed to ensure the continued effective performance of the control measures. All changes to temporary sediment and erosion control measures must be incorporated into the Stormwater Management Plan.		
7	Temporary stabilization shall be implemented on disturbed areas and stockpiles where ground disturbing construction activity has permanently ceased or temporarily ceased for longer than 14 days.		
8	Final stabilization must be implemented at all applicable construction sites. Final stabilization is achieved when all ground disturbing activities are complete and all disturbed areas either have a uniform vegetative cover with individual plant density of 70 percent of pre-disturbance levels established or equivalent permanent alternative stabilization method is implemented. All temporary sediment and erosion control measures shall be removed upon final stabilization and before permit closure.		
9	All permanent stormwater management facilities shall be installed as designed in the approved plans. Any proposed changes that effect the design or function of permanent stormwater management structures must be approved by the ECM Administrator prior to implementation.		



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	Earth disturbances shall be conducted in such a manner so as to effectively minimize accelerated		
10	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 waters of the state unless shown to be infeasible and specifically requested and approved.		
	Compaction of soil must be prevented in areas designated for infiltration control measures or where		
	final stabilization will be achieved by vegetative cover. Areas designated for infiltration control		
	measures shall also be protected from sedimentation during construction until final stabilization is		
11	achieved. If compaction prevention is not feasible due to site constraints, all areas designated for		
	infiltration and vegetation control measures must be loosened prior to installation of the control		
	measure(s).		
	Any temporary or permanent facility designed and constructed for the conveyance of stormwater		
10	around, through, or from the earth disturbance area shall be a stabilized conveyance designed to		
12			
	minimize erosion and the discharge of sediment off-site.		
	Concrete wash water shall be contained and disposed of in accordance with the SWMP. No wash		
13	water shall be discharged to or allowed to enter State Waters, including any surface or subsurface		
	storm drainage system or facilities. Concrete washouts 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.		
	During dewatering operations, uncontaminated groundwater may be discharged on-site, but shall		
14	not leave the site in the form of surface runoff unless an approved State dewatering permit is in		
	place.		
15	Erosion control blanketing or other protective covering shall be used on slopes steeper than 3:1.		
	Contractor shall be responsible for the removal of all wastes from the construction site for disposal		
16	in accordance with local and State regulatory requirements. No construction debris, tree slash,		
10	building material wastes or unused building materials shall be buried, dumped, or discharged at the		
	site.		
	Waste materials shall not be temporarily placed or stored in the street, alley, or other public way,		
17	unless in accordance with an approved Traffic Control Plan. Control measures may be required by		
	El Paso County Engineering if deemed necessary, based on specific conditions and circumstances.		
18	Tracking of soils and construction debris off-site shall be minimized. Materials tracked off-site shall		
10	be cleaned up and properly disposed of immediately.		
	The owner/developer shall be responsible for the removal of all construction debris, dirt, trash, rock,		
19	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.		
	The quantity of materials stored on the project site shall be limited, as much as practical, to that		
20	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.		
	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.		
21	In granting approval for the use of such chemical(s), special conditions and monitoring may be		
	required.		
22			
22	Bulk storage of allowed petroleum products or other allowed liquid chemicals in excess of 55 gallons shall require adequate secondary containment 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.		



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23	No person shall cause the impediment of stormwater flow in the curb and gutter or ditch except with approved sediment control measures.		
24	Owner/developer 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, DCM Volume II and the ECM Appendix I. All appropriate permits must be obtained by the contractor prior to construction (1041, NPDES, Floodplain, 404, fugitive dust, etc.). 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.		
25	All construction traffic must enter/exit the site only at approved construction access points.		
26	Prior to construction the permittee shall verify the location of existing utilities.		
27	A water source shall be available on-site during earthwork operations and shall be utilized as required to minimize dust from earthwork equipment and wind.		
28	The soils report for this site has been prepared by [Company Name, Date of Report] and shall be considered a part of these plans.		
29	At least ten (10) days prior to the anticipated start of construction, for projects that will disturb one (1) acre or more, the owner or operator of construction activity shall submit a permit application for stormwater discharge to the Colorado Department of Public Health and Environment, Water Quality Division. The application contains certification of completion of a stormwater management plan (SWMP), of which this Grading and Erosion Control 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		
4. <u>/</u>	APPLICANT COMMENTS		
а			
b			
с			

d. Per item V. the phased temporary BMP's are referenced in the legend on the CD sheets.



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5. <u>(</u>	5. CHECKLIST REVIEW CERTIFICATIONS				
а	Engineer of Record: The Grading and Erosion Control Plan was prepared under my direction and supervision and is complete and 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.				
b	Review Engineer: The Grading and Erosion Control Plan was reviewed and found to meet the checklist requirements except where otherwise noted or allowed by an approved deviation request. Review Engineer Date				