



Pre-Application Notes (PRE-APP)

TO: Brian Peterson, Town of Castle Rock Parks
FROM: Pam Hall, PREAPP Coordinator
DATE: June 28, 2021
SUBJECT: PREAPP21-0058 – Plum Creek South Park Renovations
MTG DATE: **Conference Call via Web-Ex - Tuesday, July 6, 2021 at 2:15 pm**

The answers to your questions and comments from Town departments are provided below. The reviewer's name and phone number is provided as well. Please let me know if you have any questions or concerns. I can be reached at 720-733-2205.

Applicant Questions:

o In regard to process, we would like to make sure our team is fully aware of:

§ What submittals is the Town looking for? **Submittal of a complete Site Development Plan (SDP) is required. Please see attached SDP Submittal Checklist**

Example:

- 65%, receive comments, no resubmittal of 65% necessary
- 95%, receive comments, resubmittal of 95% with comment responses/addressed
- Final Bid Documents, receive comments, resubmittal with comment responses/addressed

§ What is the internal review process for each submittal? **The required submittals are listed on the Development Review Guidelines in the attachments. First review is 3.5 weeks. Project typically take 3 reviews. (Please see the attached guidelines).**

§ Which departments can we expect to get comments back from? **The project will be reviewed by Drainage, Utilities, Planning, Public Works, Fire and others as dictated by the scope of work. Comments from each discipline will be returned as needed.**

§ What would the Town like to see in each submittal? **Please refer to the attached checklists for submittal requirements for each project type.**

§ Note: *If the Town is indifferent on submittal process, our team would fall back on the process outlined in our proposal/contract.* **The Town has very specific submittal requirements please refer to the attached submittal checklists.**

§ Can the Town provide any utility information, for comparison to our survey, to ensure all utilities and their locations are accounted for? **Yes, please use link to request As-built Construction Plans, and Utility or Drainage Report Request.** <http://www.crgov.com/FormCenter/Water-2/Asbuilt-Construction-Plans-and-Utility-o-269>

DEVELOPMENT SERVICES

LARRY HEAROLD

- DS1. Please contact Larry Hearold with questions at LHearold@crgov.com or 720-733-3579.
DS2. Construction Documents (CDs) and Temporary Erosion and Sediment Control (TESC) land use application submittal are required. See attached checklists (**Attachments A & B**).
DS3. The Development Review Guidelines are attached for your use (**Attachment C**).

CASTLE ROCK WATER/DRAINAGE

KEVIN BUFFINGTON

- D1. Please contact Kevin Buffington with questions at kbuffington@crgov.com or 720-733-2308.
D2. This site is located in the Plum Creek watershed. Please review the attached permanent water quality worksheet to determine water quality requirements.
D3. If water quality is required (as determined by the water quality worksheet), full spectrum detention (100-year plus an additional ½ WQCV) must be provided for the entire site. In the drainage study, the applicant will need to verify there is no impact to adjacent properties. Twelve-foot access for detention pond maintenance must be provided to meet section 13.6.1 of the Stormwater Criteria Manual. A stable working bench must be provided to the top of the outlet structure and spillway; a working bench, not exceeding 10%, should also be provided around and to the bottom of the outlet structure and forebay(s).
D4. If water quality is required, drainage reports will be required with the SDP and CD submittal. If

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100 North Wilcox Street, Castle Rock, CO 80104. P: 720.733.2205 F: 720.733.2217 E: phall@crgov.com

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water quality is not required, a drainage conformance letter can be provided. In these, please discuss the 4 steps of water quality per section 14.1 of the SDDTCM. The studies must also discuss operation and maintenance of all stormwater management facilities per section 3.5 of the SDDTCM. Please include the completed water quality certification and permanent water quality worksheet (**Attachments D & E**) in the appendix of these drainage studies.

CASTLE ROCK WATER/SAN**KEN TORRES**

- U1. Please contact Ken Torres with questions at ktorres@crgov.com or 720-733-6072.
- U2. It appears this site is not currently served by Town utility accounts. This project is predominantly located in the Town of Castle Rock's Crystal Valley Red Pressure Zone. As shown on the attached GIS utility map (**Attachment F**), there is an existing 10" red zone water main located in Mount Royal Drive that appears to have two 6" DIP waterlines stubbed-out to the parcel.
- U3. Two existing 8-inch sanitary sewer collectors are also located within Mount Royal Drive, and Plum Creek Blvd., along the northeast side of the park.
- U4. Given the planned use of the site, no new water and sanitary sewer service lines will be required.
- U5. There are existing fire hydrants located around the site. The number, distribution, and spacing of fire hydrants and any fire protection requirements for this project shall be determined by Castle Rock Fire.

CASTLE ROCK WATER/WATER CONSERVATION**RUTH STADLER**

- WC1. Please contact Ruth Stadler with questions at rstadler@crgov.com or 720 733-6045.
- WC2. Water Conservation will be reviewing the landscape and irrigation plans for minimum criteria as listed in the Town of Castle Rock Landscape and Irrigation Criteria Manual (TOCR LICM) dated April 1, 2021.
- WC3. Please see section 4 in the TOCR LICM for general landscape and irrigation criteria. This may include but not be limited to plant diversity; minimum plant size at planting, minimum irrigation requirements including required equipment.
- WC4. Please see section 10.2.1bii in the TOCR Landscape and Irrigation Criteria for minimum tree requirements for Parks. See section 10.2.1 for plant hydrozone requirements.
- WC5. Complete the composite landscape water use rating or CLWUR chart and make certain the native areas permanently irrigated are shown on the chart. Maximum not to exceed 2.5. Please see the Municipal code 13.20 for specifics concerning the LWU rating and range.
- WC6. Please explain the watering and establishment protocol for the proposed evergreen trees and any Native seed needing to be established.

PUBLIC WORKS/TRANSPORTATION**JAY JENSMA**

- PW1. Please contact Jay Jensma with questions at JJensma@crgov.com or 720-733-2264.
- PW2. Mt. Royal Drive, adjacent to this location, is scheduled to be reconstructed in 2022.

PARKS**BRIAN PETERSON**

- P1. Please contact Brain Peterson with questions at BPeterson@crgov.com or 303-814-7452.
- P2. Overall the drawings look great. We can discuss during our site meeting on Thursday 7.1. Thank you.

KEY LINKS: <http://co-castlerock2.civicplus.com/2191/Code-Central>

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Development Services Department

100 N. Wilcox Street, Castle Rock CO 80104

Development Review Manager – 720-733-2202

DevReview@crgov.com

Construction Documents (CDs) Checklist

A complete Construction Document (CD) submittal will contain the following information. Please check off the items to ensure that your application is complete. Please submit one (1) electronic copy of each document required. Plan sets shall be formatted for 24" x 36" plan sets. PDF format is required for submittals to the Town. Please submit documents per the naming conventions shown on the last page of this checklist.

Town Statement:

The Town is committed to timely plan review goals consistent with those outlined in the Town's Development Procedures Manual. In order to meet the timelines, the Town relies upon the applicant to provide 100% complete plans that have been checked for quality (QC'd) by the applicant. Incomplete and/or substandard submittals will result in application denial or extended review periods, additional review periods and additional fees.

Applicant's Statements: (Please check each box)

- ☒ All items have been submitted as required below unless determined not applicable by Town staff.
- ☒ The plans being submitted have been checked for quality.
- ☒ The plans being submitted represent a 100% design.
- ☒ I understand that, through the course of the review of the submittal package, the Town may determine critical information is not included or the submittal package is substandard. The Town may require subsequent review timelines to be lengthened to allow adequate time for review of the missing design information or for substandard submittals.
- ☒ I understand the plan review fee is for two formal review periods. If additional review periods are needed, a fee of 40% of the original review fee will be required for each additional review period.

Matthew Whipple _____ 10-25-2021
 Engineer of Record _____ Date

Owner _____ Date

Project Name: Plum Creek south Park Renovations

Submittal Meeting Date: _____ **Project Manager:** Larry Hearold

Email: lhearold@crgov.com **Phone:** 720-733-3579

Construction Documents (CDs) Checklist

Req'd	Subm'd	Submittal Checklist
		LAND USE APPLICATION (completed/signed) Land Use Application
	N/A	DEVELOPMENT REVIEW FEE (Amt. Req'd \$ <u>2,500.00</u> Amt. Rec'd \$ _____) Development Services Fee Schedule
		OFFSITE WORK AND PROPERTY OWNER APPROVAL If any work is proposed on land not owned by the applicant, a letter of approval from the landowner or temporary construction easement is required.
		CHECKLISTS Complete and submit any checklist used for plan preparation and all reports. Submittal Checklists
		PROJECT NARRATIVE
	N/A	Compliance. Description of compliance or deviations from approved Site Development Plan (SDP), or previously approved Final PD Site Plan (FPD).
	N/A	Variances. Clearly identify any areas that vary from the approved Site Development Plan, the causes for the deviation and how the deviation impacts surrounding properties.
	N/A	Technical Compliance. Describe compliance with Technical Manuals and list any previously approved or proposed technical criteria variances.
	N/A	Pre-Application or Pre-Submittal Action Items. Provide pre-application/pre-submittal comments and how each item has been addressed.
	N/A	HAUL ROUTE MAP Show route of travel to/from site for fill/borrow. (8-1/2" x 11" Exhibit) A Haul Route Authorization Form must be submitted prior to hauling operations. Authorization For Haul Route
	N/A	DAILY CONSTRUCTION TRAFFIC MAP Show route of travel to/from site to I-25. (8-1/2" x 11" Exhibit)
	N/A	PHASE III DRAINAGE REPORT Submittal Checklists
		FINAL UTILITY REPORT Submittal Checklists
		ENGINEER'S COST ESTIMATE (using the Town's standard template) Construction Cost Estimate Template (If project will be permitted in phases, each phase will require a separate cost estimate.)
		FINAL FLOODPLAIN MODIFICATION STUDY (CLOMR if impacting regulatory floodplain) Required for projects that require modification of, or construction in, the existing floodplain, the FEMA Special Flood Hazard Area (SFHA), or when proposals involve use of property within the floodplain limits. Provide final report consistent with Section 5.6 of the Stormwater Manual. Provide documentation of all applicable local, state and federal approvals and property owner notifications.
	N/A	TECHNICAL CRITERIA VARIANCE Complete a Technical Criteria Variance form with appropriate supporting information describing any proposed deviations from the Technical Design Criteria in the Technical Manuals. Technical Criteria Variance Application
	N/A	EASEMENTS If the proposed project requires any new easements, submit the legal description and exhibits confirming the location of the easements and title commitment or ownership and encumbrance report specific to easement legal description. Easements are typically needed for utility main lines, drainage features, sight distance triangles, and public sidewalks on private land. The Town's Legal Department typically prepares the easement agreement document.
	N/A	OWNERSHIP AND ENCUMBRANCE If easements will be needed, then submit a current Ownership and Encumbrance report or title commitment with the easement exhibit and legal description.
		TEMPORARY FIRE ACCESS APPARATUS PLAN If the proposed building construction is not located within 150 feet (to all points) from a paved roadway, please submit a temporary fire access apparatus plan for review by Castle Rock Fire Department.

Construction Documents (CDs) Checklist

CD Plans

A complete set of Construction Drawings (CDs) should contain the following information. The specific plan sheets are listed below in the order they should appear in the Plan set. All CDs submitted to the Town of Castle Rock (TCR) for review, comment, and approval shall be prepared by, or under the direct supervision of a Professional Engineer licensed in the State of Colorado. Improvements within public rights-of-way or utility easements are required to be designed, approved, and constructed in accordance with the Town's Regulations, Municipal Code, and current Technical Criteria Manuals.

Req'd	Subm'd	Formatting Checklist
		<u>GENERAL: TO BE LOCATED ON ALL SHEETS</u>
✓	✓	<u>North Arrow:</u> The north arrow shall be oriented so north is up or to the right on each sheet.
✓	✓	<u>Scale:</u> Scales for all Plan and profile sheets: 1" = 50' horizontal; 1" = 5' or 10' vertical; Overall Plan 1" = 100'. Show bar scale. (Other scales may be used upon Town approval.)
✓	✓	<u>Vertical Datum:</u> The vertical datum used for design and construction of facilities shown in the plans shall conform to NAVD88 vertical datum criteria. <u>Assumed vertical datum or adjustment equations will not be allowed.</u>
✓	✓	<u>Horizontal Control:</u> Provide a basis of bearings statement. For the post-construction record drawings, a CAD drawing of the overall design shall be submitted in Colorado State Plane Coordinates, NAD83, Feet, Central Zone.
✓	✓	<u>Legend:</u> Show legend on all sheets with the symbols pertaining to the sheet. Show existing items screened back, show proposed items in dark font.
✓	✓	<u>Professional Engineer's Certification:</u> See "Construction Documents Signature Blocks and Standard Notes" for wording. List name and Colorado PE registration number below signature line. Required Signature Blocks and Standard Notes
✓	✓	<u>Town Approval Signature Block</u> See "Construction Documents Signature Blocks and Standard Notes" for wording. Locate in bottom right corner of each sheet. Required Signature Blocks and Standard Notes
✓	✓	<u>Revision Table:</u> All sheets shall have a revision table in the sheet title block.
✓	✓	<u>Project Boundaries:</u> Show property lines, lot and block numbers, section corners and rights-of-way (ROW) with dimensions.
✓	✓	<u>Easements:</u> Show all existing and proposed easements – include type, width and recordation information.
✓	✓	<u>Street Names:</u> Show all adjacent street names and label ROW width. Dimension the ROW width of each street at least once on each sheet.
✓	✓	<u>Limits of Construction:</u> Clearly demark the limits of construction (LOC). There shall be no work outside of this LOC.
✓	✓	<u>Existing Improvements:</u> Show existing improvements that are to remain in a screened back/lighter line type.
✓	✓	<u>Demolition Plan:</u> Clearly depict and label existing improvements that are being demolished.
✓	N/A	<u>Key Map:</u> Provide a key map on each sheet of the plan set. Plan and profile sheets shall provide a key map showing the area being detailed.
✓	N/A	<u>Building Locations:</u> (if applicable) Show existing and proposed building footprints.

Construction Documents (CDs) Checklist

Req'd	Subm'd																
		COVER SHEET															
✓	✓	<p>Title: "PUBLIC IMPROVEMENT CONSTRUCTION PLANS" shall be placed in large letters at the top center of the page, followed by the subdivision name. The brief legal description of the project shall be placed below this, followed by "Town of Castle Rock Project No. CDxx-xxxx". (See example below)</p> <p style="text-align: center;"> PUBLIC IMPROVEMENT CONSTRUCTION PLANS CRYSTAL VALLEY RANCH FILING 15 AMENDMENT 2 & 15 AMENDMENT 3 <small>A PARCEL OF LAND BEING A PORTION OF SECTION 25, TOWNSHIP 8 SOUTH, RANGE 67 WEST OF THE SIXTH PRINCIPAL MERIDIAN, TOWN OF CASTLE ROCK, COUNTY OF DOUGLAS, STATE OF COLORADO TOWN OF CASTLE ROCK PROJECT NO. CD17-0003</small> </p>															
✓	✓	<p>Names and Addresses: Provide names, addresses and phone numbers for the project design project team (owners, developers, plan preparer, engineer and land surveyor), dry utility companies, Town of Castle Rock Public Works Department and Castle Rock Water.</p>															
✓	✓	<p>Sheet Index: For multiple sheets, a sheet index must be provided on the first sheet. Key maps must be provided where needed. Number sheets consecutively (1 of x) and place sheet numbering in the bottom right corner of each sheet.</p>															
✓	✓	<p>Vicinity Map: A vicinity map should show the development area and all major roads within one (1) mile at a minimum scale of 1" = 2000' with a north arrow.</p>															
✓	✓	<p>Legend: Show existing items screened back, show proposed items in dark font.</p>															
✓	✓	<p>Professional Engineer's Certification: See "Construction Documents Signature Blocks and Standard Notes." List name and Colorado PE registration number below signature line. Required Signature Blocks and Standard Notes</p>															
✓	✓	<p>Indemnification and Adherence to Standards Statement: See "Construction Documents Signature Blocks and Standard Notes." Required Signature Blocks and Standard Notes</p>															
✓	✓	<p>Town Approval Signature Block: See "Construction Documents Signature Blocks and Standard Notes." Locate in bottom right corner of each sheet. Required Signature Blocks and Standard Notes</p>															
✓	✓	<p>Town General Notes: See "Construction Documents Signature Blocks and Standard Notes." Required Signature Blocks and Standard Notes</p>															
✓	N/A	<p>Variances: List Town-approved or proposed variances from the technical criteria manuals that apply to this project. List variance project number (e.g. TCV18-00XX), description, conditions of approval and approval date. If variances are being reviewed with the Construction Documents, leave the conditions of approval and date blank.</p>															
✓	✓	<p>Field Change Order Table: Please provide the FCO table on the cover sheet. Include FCO number (FCO18-00XX), date and purpose/description. (See example below)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">FCO#</th><th style="width: 20%;">Date</th><th style="width: 60%;">Purpose/Description</th></tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	FCO#	Date	Purpose/Description												
FCO#	Date	Purpose/Description															
✓	N/A	<p>Typical Street Section(s): Provide typical right-of-way sections for each roadway type in the plan set. Provide horizontal dimensions for each functional area and provide cross-slopes for all elements. Provide vertical dimensions as needed. Include with each distinct section a list of streets to which the section applies."</p>															
		CONSTRUCTION NOTES															
✓	✓	<p>Town Standard Construction Notes: See "Construction Documents Signature Blocks and Standard Notes." List the applicable Town Standard Notes on this sheet: Water Line Construction, Sanitary Sewer Construction, Street Construction, Signing and Striping, Storm Drainage Construction, and Fire Department Notes. Required Signature Blocks and Standard Notes</p>															
✓	✓	<p>Notes: List any other general construction notes on this sheet.</p>															

Construction Documents (CDs) Checklist

OVERALL PLAN (SITE PLAN) OR PHASING PLAN		
Req'd	Subm'd	
✓	✓	Overall Layout: Depict the entire development in plan at scale of 1" = 100' or finer. Show property boundaries lot lines, rights-of-way, easements Show existing and proposed public and private infrastructure including: <ul style="list-style-type: none"> • transportation components (e.g. traffic signals, handicap ramps, sidewalks, curbs, gutters, bike paths); • Utility components (e.g. street lights, sanitary, storm, water supply). Show all appurtenances related to the above items and annotate the name of each street, lot and block.
✓	N/A	Building Location: (For Non-Single Family Buildings) Show existing and proposed building footprints, required setbacks and separations. On adjacent properties show footprint and location of nearest buildings.
✓	✓	Structures: Show locations of proposed structures, including walls, fences, trash...etc.
✓	N/A	Phasing: <ul style="list-style-type: none"> • Show project phase boundaries using wide, dashed lines and annotate each phase. • Include notes for each phase specifying phase order. • Indicate whether each phase is independently sustainable. • List temporary and permanent improvements required in each phase, i.e. interim turnarounds for dead end roads. • Provide an engineer's cost opinion for each phase. (Each phase will be permitted separately)
GRADING PLAN		
✓	✓	Contours: Show proposed and existing grades at one-foot contours in plan view at a scale of 1"=20' or finer. For projects requiring multiple grading sheets, provide an overall grading plan showing proposed and existing grades at five-foot contours. Contours shall extend 20 feet beyond the property line.
✓	✓	Flow Arrows: For residential overlot grading, show flow arrows on all lot lines indicating swale placement with individual home construction.
✓	✓	Lot Drainage: Overlot grading plans for new residential development: <ul style="list-style-type: none"> • Concentrated flows shall be conveyed in drainage easements located on common property lines • Where more than 2 lots convey flows to the common property line of another lot, the drainage easement shall be located in a tract owned by an HOA, district or other responsible entity • No lot shall receive inflow from a tributary area exceeding 1.5 times the receiving lot area
✓	✓	Retaining Walls: Show all retaining walls and label top of wall and bottom (bottom of footer) of wall elevations and setback to property lines. Walls greater than 4 feet from bottom of footing to top of wall require a separate submittal for a building permit. Contact the Building Department for wall permit requirements. All walls must be designed to accommodate proposed landscaping.
✓	N/A	Grading Notes: For any retaining wall, add the following note –"Retaining walls, sections of retaining walls 4-feet in height or higher or tiered walls must be designed by a Structural Engineer licensed in the State of Colorado and must receive a Building Permit from the Town of Castle Rock prior to the issuance of the Public Works Permit."
✓	N/A	Floodplains: Show boundary of the existing and proposed one-hundred-year floodplain limits and elevations based on Town approved studies and/or Preliminary Floodplain Modification Study. If no floodplains exist on the property, please place a note on the cover sheet.

Construction Documents (CDs) Checklist

Req'd	Subm'd	
✓	N/A	Freeboard: Demonstrate a minimum of 2-feet of freeboard shall be provided between the 100-year base flood elevation and the lowest finished floor elevation of all structures (this includes basements) and show all proposed lots are outside of floodplain limits.
✓	N/A	Drainage Channel and Floodplain modifications: Dashed lines must be used to show any proposed modification to drainage channels and floodplains.
✓	✓	Drainage: Show stormwater conveyance features and the location of all stormwater facilities.
✓	✓	Natural Features: Show drainage channels and other significant natural features and significant vegetative stands within the property boundary and 100 feet beyond the property boundary.
		ROADWAY IMPROVEMENTS Transportation Design Criteria Manual
		General: Include plan and profile for each street proposed in the plan set. Cross-sections may be required to evaluate connections to existing roadways. These are typically shown at 25-foot intervals.
		Roadway Plan Views:
		Show departure sight distance lines and safety triangles at each intersection." These areas must be free of obstructions taller than 30 inches. If platted property is affected by sight triangles, sight distance easements must be recorded by separate document.
		Define the roadway horizontal alignment and provide centerline stationing at 100-foot intervals. <ul style="list-style-type: none"> Annotate and dimension curves including point of curvature, curve radius and length, degree of curvature and superelevation. Annotate and dimension each tangent with point of tangency (PT), tangent length and bearing. Show each point of intersection (PI) with existing and proposed streets and annotate the PI stationing.
		Dimension the flowline-flowline and right-of-way widths for each roadway shown in each plan view.
		Provide topography, as necessary, for plan review. Show steep grades in or adjacent to right-of-way.
		Include traffic calming elements, as necessary per Transportation Design Criteria Manual.
		Show existing and proposed curb, gutter and sidewalks on or adjacent to site.
		Label crossspans, valley gutters, handicap ramps and radius of curb returns.
		Existing and proposed obstructions, such as culverts/bridges, vaults, catch basins, traffic islands, street lights, walls and permanent structures on or adjacent to site.
		Roadway Profiles:
		Provide a profile along the roadway centerline for each roadway. <ul style="list-style-type: none"> Provide roadway stationing along the profile. Provide profiles of the existing ground within 20 feet of the property line. Show profile of connecting streets for 500 feet beyond the proposed roadway connection. Annotate vertical curve data, e.g. stationing at point of curvature, curve length, k-value. Annotate and dimension tangents, e.g. stationing at point of tangency, tangent length, percent grade.
		Provide flowline profiles at all intersecting streets (where flowlines are not symmetric with centerline profile).

Construction Documents (CDs) Checklist

Req'd	Subm'd	
		Provide flowline profiles at cul-de-sacs and bulbs.
		Show culverts or bridges on profile.
		Typical Street Section(s) (if not shown on cover sheet): Provide any applicable horizontal or vertical dimensions in addition to providing a section of all improvements within the Right-of-Way. A section should be provided for each roadway type planned within the Project. Include dimensions for Flow line to flow line; back of walk to back of walk; and ROW width. Label type of curb, gutter and sidewalk, pavement section (or reference Pavement design report), and cross slopes.
		ROADWAY DETAILS
		Details: Include pertinent details related to the roadway improvements. Use Town of Castle Rock standard details, as applicable. Public Works Details and Forms
✓	N/A	STORMWATER PLAN AND PROFILE Storm Drainage Design and Technical Criteria Manual
✓	N/A	General: Includes Plan, profile of all storm sewers and culverts (annotated with Hydraulic Grade Line) as identified in the Stormwater Manual.
✓	N/A	BOX CULVERT STRUCTURAL PLANS <ul style="list-style-type: none"> • Provide culvert construction documents including plan and profile, culvert geometry, demo plan, detail sheets, rebar specifications, and other sheets necessary to construct the culvert. • Design box culverts per requirements described in TDCM Section 9. • Per Town criteria provide approval by a third-party engineering firm. • Per Town criteria provide proof of contract execution for third-party construction inspection by a qualified engineering firm.
✓	N/A	WATER QUALITY AND FLOOD CONTROL FACILITIES
✓	N/A	Include plan, profile, cross-sections and details of all water quality and flood control facilities.
✓	N/A	DRAINAGEWAY IMPROVEMENTS
✓	N/A	Include plan, profile, cross-sections, notes and details of all minor and major drainageway improvements. Annotate with water surface elevations.
✓	✓	STORMWATER DETAILS
✓	✓	Details: Include all pertinent details related to the stormwater improvements. Include geometric, dimensional, structural, foundation, bedding hydraulic and other details as needed. Storm Sewer Details
		OVERALL WATER SYSTEM PLAN Water System Design Criteria Manual
		General: In Plan view (Scale is 1" = 50' minimum) <ul style="list-style-type: none"> • Provide all information and dimensions for horizontal layout and valves, kickblocks, reducers, tees, hydrants, services, and any other appurtenance that is part of the potable water system. • Profile views will only be required in special cases such as utility crossings, off-site construction not entirely supported by profile views in the Plan set for either streets, storm drain or sanitary sewer, or in other cases where blow-offs or airvac may be necessary. • Where appropriate, the Town's standard details shall be referenced.
		WATER SYSTEM PLAN AND PROFILE
		Water Plan Views:
		Provide locations, sizes and materials of all existing and proposed utility lines and appurtenances on and adjacent to site.

Construction Documents (CDs) Checklist

Req'd	Subm'd	
		Show proposed tie-ins to existing improvements with stations.
		Show location of all existing water wells and individual sewage disposal systems (ISDS) on and adjacent to site.
		Show all needed off-site improvements, extensions or services, or upgrades to the TCR system.
		Show boundaries of Town's pressure zones, or note stating the pressure zone if entire site is in only one pressure zone.
		Show existing and proposed obstructions, such as vaults, catch basins, traffic islands, street lights, walls or other permanent structures on or adjacent to site.
		Water Profiles: Provide profile views for off-site construction and all water mains outside of streets not supported by profile views in the CDs for streets, storm sewers or sanitary sewers as well as water line lowerings.
		Show existing and proposed grade line
		Show high points and low points along mains
		Show utility crossings – include types and sizes of lines, stationing, coordinates at each end of pipe encasement (if applicable), and TOP and BOP elevations and vertical clearance.
		WATER DETAILS
		Details: Include pertinent details related to the water improvements. Use Town of Castle Rock standard details, as applicable. Water Details
		SANITARY SEWER SYSTEM PLAN AND PROFILE (can be included on Roadway Plan & Profile) Wastewater Collection Design Criteria Manual
		General: Provide plan and profile, provide vertical and horizontal alignments, connections, manhole rim and invert elevations, and sizing.
		Sanitary Sewer Plan Views:
		Show locations, sizes and materials of existing and proposed utility lines and appurtenances on and adjacent to site.
		Show proposed tie-ins to existing improvements with stations.
		Show location of all existing water wells and individual sewage disposal systems (ISDS) on and adjacent to site.
		Show needed off-site improvements, extensions or services, or upgrades to the TCR system.
		Show existing and proposed obstructions, such as vaults, catch basins, traffic islands, street lights, walls or other permanent structures on or adjacent to site.
		Sanitary Sewer Profiles:
		Provide existing and proposed grade lines.
		Label manhole number, station and elevation of manhole rims; inverts and sizes of all pipes coming into and going out of manholes.
		Provide slope of main line between each manhole.
		Show utility crossings – include types and sizes of lines, stationing, coordinates at each end of pipe encasement (if applicable), and TOP and BOP elevations and vertical clearance.
		SANITARY SEWER DETAILS
		Details: Include pertinent details related to the sanitary sewer improvements. Use Town of Castle Rock standard details, as applicable. Sanitary Sewer Details

Construction Documents (CDs) Checklist

Req'd	Subm'd	
		SIGNAGE, STRIPING AND LIGHTING PLAN
		Traffic Signing and Pavement Markings: Provide permanent and temporary traffic signing and pavement markings. Show locations of signs and pavement markings, each shall be indicated by station/offset or other specific dimensions indicating exact locations. Pavement marking and sign types shall be indicated on these plan sheet(s) (i.e., epoxy paint with x/x glass-to-bead ratio, R1-1 Stop Sign, etc.). This sheet shall also contain any construction or application notes (i.e., application temperatures, surface cleaning methods to be used prior to application, etc.).
		Street lights: Show existing, proposed and relocated street lights. (Applicant must coordinate with IREA for street light design.)
		Temporary Signing: Show all barricades for interim dead end streets, if necessary.
		TRAFFIC SIGNAL PLAN
		These sheet(s) shall show all Plan views and details necessary to construct a traffic signal. Equipment, materials and installation shall conform to CDOT <i>Standard Specifications for Road and Bridge Construction</i> and the National Electrical Code. The traffic signal(s) shall also contain an emergency vehicle preemption device as specified by the TCR Transportation Criteria Manual.
✓	✓	LANDSCAPE PLAN Landscape and Irrigation Performance Standards and Criteria Manual
✓	✓	Licensed Landscape Architect Signature Block: <ul style="list-style-type: none"> Landscape plans must be prepared by a Colorado Licensed Landscape Architect. In a few cases, the plan can be prepared by a Town registered design professional instead (review the TCR Landscape Manual for this criteria). Town registration requires attendance at a Landscapers Registration class and testing. List the design professionals name and registration number and type below the signature line.
✓	✓	North Arrow and Scale: A north arrow is required. Provide a scale, both graphic and written. The recommended scale is 1 in. = 20 ft. with a maximum scale of 1 in. = 40 ft.
✓	✓	Property Lines: The boundary line of the site must be shown in a heavy solid line with dimensions along all exterior property lines. Label all lots, blocks and tracts and provide area in square feet.
✓	✓	Building Location: Existing and proposed building footprints.
✓	✓	Easements: Show, identify and dimension all existing and proposed easements.
✓	✓	Utilities: <ul style="list-style-type: none"> Show and label all existing and proposed utility lines, including water, sanitary sewer and stormwater facilities. Label distance from closest tree if location is near the 10 foot minimum distance from water or sanitary sewer main lines.
✓	✓	Contours: Show the proposed grade, in minimum two-foot contour intervals. Label and call out slope areas in "X:1" format. 3:1 slopes are the maximum allowed.
✓	✓	Landscaped Areas: Locate and identify all existing and proposed elements including trees and shrubs drawn at mature size, turf areas and other groundcovers, and ornamental nonliving materials.
✓	✓	Landscape Structures: Locate, dimension and identify landscape structures including fences, signs, lighting, water features, etc. and recreational facilities including structures, equipment, courts and parking areas.
✓	✓	Natural Vegetation: Locate, dimension and identify all areas of significant natural vegetative areas, specimen trees, wildlife habitat and landscape features to be preserved and/or improved.

Construction Documents (CDs) Checklist

Req'd	Subm'd	
✓	✓	Plant Legend: Use Town of Castle Rock Plant Legend. Landscape Information and Forms
✓	N/A	Site Inventory Chart: Complete Commercial Landscape Site Inventory Chart <i>or</i> Multi-Family Landscape Site Inventory Chart. Landscape Information and Forms
✓	✓	Materials: <ul style="list-style-type: none"> List of quantities, types and sizes of landscaping material to be utilized. Plant materials shall be listed by both common and botanical name. <i>Please note:</i> Non-living ground cover that is covered by the spread of shrubs or groundcovers may be counted as living ground cover. Non-living groundcover does not include sidewalks or parking areas, which are not counted as part of the total landscape area. Bluegrass is not permitted in landscapes for non-residential properties or streetscapes. It can be allowed on sports fields but the total project must comply with the Town's Irrigated Public Area Water Conservation Ordinance. (See Municipal Code and TCR Landscape Manual)
✓	N/A	Sight Distance Triangles: Label sight distance and safety triangles at corners and intersections, which must be kept free of visually obstructing (30 inches or higher) objects and plant material. Sight and safety triangles must comply with Transportation Design Criteria Manual. Per TDCM tree species in sight distance lines must have a branching height of eight feet or higher and must have mature caliper of no more than twelve inches.
✓	✓	Berms: Show typical cross-section of proposed berm areas.
✓	✓	Pedestrian Areas: Locate and dimension existing and proposed sidewalks and other pedestrian-oriented areas and identify type of surface and materials.
✓	✓	LANDSCAPE DETAILS AND NOTES
✓	✓	Details: Include all pertinent details related to the landscape plan. Use Town of Castle Rock Standard Details, as applicable. Landscape Details
✓	✓	Town Standard Landscape Notes: See "Construction Documents Signature Blocks and Standard Notes" for wording.
✓	✓	Other Notes: List any other general landscape notes on this sheet.
✓	N/A	IRRIGATION PLAN Landscape and Irrigation Performance Standards and Criteria Manual
✓	N/A	Town Registration and Licensing: <ul style="list-style-type: none"> All irrigation designers must attend a Town of Castle Rock Landscapers Registration class and pass a test in order to be allowed to design in the Town. All irrigation plans must include the designer's Town registration number.
✓	N/A	Irrigation Plan: Layout and identify method of irrigation for each planting area (spray heads, bubblers, etc.). <i>Please note</i> all spray-irrigated areas must be at least 10 feet wide.
✓	N/A	Tap and Meter: Identify size and location of irrigation tap and meter. Confirm this size and location is consistent with Utility Plan.
✓	N/A	Backflow Preventer: Identify size and location of backflow preventer.
✓	N/A	Hydraulic Worksheet. Include in plan set the completed Town of Castle Rock Hydraulic Worksheet (one per tap/meter). Landscape Information and Forms
✓	N/A	Irrigation Chart. Include in plan set the completed Town of Castle Rock Irrigation Chart (one per tap/meter). Landscape Information and Forms

Construction Documents (CDs) Checklist

Req'd	Subm'd	
	N/A	CLWUR Chart (Composite Landscape Water Use Rating). Include in plan set the completed CLWUR Chart. Landscape Information and Forms
	N/A	IRRIGATION DETAILS AND NOTES
	N/A	Details: Include all pertinent details related to the irrigation plan. Use Town of Castle Rock Standard Details, as applicable. Irrigation Details
	N/A	Town Standard Irrigation Notes See "Construction Documents Signature Blocks and Standard Notes" for wording.
	N/A	Other Notes: List any other general irrigation notes on this sheet.
	N/A	ILLUMINATION PLAN (See Chapter 17.58 of the Municipal Code)
	N/A	Property Lines: The boundary line of the site must be shown in a heavy solid line with dimensions, bearings and control points indicated along all exterior property lines.
	N/A	Building Location: Existing and proposed building footprints.
	N/A	Luminary Location: Show location and height above grade of all luminaries.
	N/A	Type and Wattage: List the type and initial lumen rating and wattage of each lamp source.
	N/A	Luminary Style: List the style of the luminary, IESNA photometric distribution type including any shielding information such as house side shields, and internal and exterior shields. Please note that all lighting must be IESNA full cut-off unless otherwise specified in Table 1 of the outdoor illumination regulations.
	N/A	Timer Controls: Control descriptions including type of controls, the luminaries to be controlled by each type, and control schedule. Post curfew control method and schedule must be addressed in the plan.
	N/A	Photometric Plan: A computer generated lighting calculation indicating initial horizontal luminance (light loss factor LLF = 1.0) on a 10 foot by 10 foot minimum grid across the entire site and a minimum of 10 feet beyond the property line. The calculation grid shall also indicate the maximum to minimum uniformities for each specific area including parking, circulation areas, plazas, canopies, pedestrian areas, and other common public areas. All exterior mounted luminaries including building, pedestrian and landscape lighting shall be included.
	N/A	Sign Lighting: Sign lighting description including luminary type, mounting details, lamp lumen rating, and luminance (candela per square meter) for internally illuminated signs and exposed lamp sources including LED, and control means during pre-curfew and post-curfew hours.
	N/A	Sports Facilities: For sports facilities, provide aiming angles and diagrams for sports lighting luminaries.
	N/A	Forward Throw Luminaries: Forward throw luminaries (Type IV distribution), pole-mounted lights aimed at a building's façade, and unshielded wall packs are prohibited.
	N/A	Illumination Plan Standard Notes: <ol style="list-style-type: none"> Objectives for lighting in different areas of the site. Hours of light operation. Mitigation to neighborhoods/adjacent properties. The following lighting types are prohibited: Forward Throw (Type IV) distribution, pole-mounted lights aimed at a building's façade, and unshielded wall packs.

Construction Documents (CDs) Checklist

[illegible]

Construction Documents (CDs) Checklist

Naming Conventions

When naming documents to be submitted, please follow this guide for naming each document.

The Town uses the following prefixes for plan/plat submittals. (The prefixes are also used for the supporting documents of each):

ANX - Annexation Plat Documents

PDP - Planned Development Plan Documents

SDP - Site Development Plan Documents

CD - Construction Plan Documents

GES - Grading, Erosion and Sediment Control Plan Documents

PL - Subdivision Plat or Amended Plat Documents

FCO - Field Change Order Documents

Formal Submittal Naming Examples:

1) Example: 1st submittal of the CD package:

- The Construction plans will be named: ***1-CD18-00XX Plans***
- The Cost Estimate will be named: ***1-CD18-00XX Cost Est***
- The Phase III Drainage Report will be named: ***1-CD18-00XX PhIII Drn Rpt***
- The Final Utility Report will be named: ***1-CD18-00XX Final Util Rpt***
- The Project Narrative will be named: ***1-CD18-00XX Narrative***

Continue same format for all documents necessary for the submittal. A list of abbreviations is provided below.

2) Example: 2nd submittal of the SDP package:

- The SDP plans will be named: ***2-SDP18-00XX Plans***
- The Phase II Drainage Report will be named: ***2-SDP18-00XX PhII Drn Rpt***
- The Prelim Utility Report will be named: ***2-SDP18-00XX Prelim Util Rpt***
- The traffic study will be named: ***2-SDP18-00XX TIS***
- The title work will be named: ***2-SDP18-00XX Title***

Responses to the Town's redlined PDF Comments:

Resubmittals require responses to each PDF redline returned with previous review.

PDF Redlines will be returned to applicant following the general format:

- *PW-CD18-00XX Plans-Rev1.pdf* = (Public Works 1st review of CDs)
- *U-CD18-00XX Fin Util Rpt-Rev1* = (CR Water's 1st review of Util Report)

The response that must be provided for redlines shall follow these general examples:

- ***2-Resp-PW-CD18-00XX Plans-Rev 1.pdf***
- ***2-Resp-U-CD18-00XX Fin Util Rpt-Rev1***

Continue same format for all documents necessary for the submittal. A list of abbreviations is provided below.

(The Town's Project Manager will provide the XX number once the project has been created in the Town's system. Please request before formally submitting)

Construction Documents (CDs) Checklist

Abbreviations

Document Type	Abbreviation for Submittal
Land Use Application	Application
Site Plans, Construction Documents and GESC	Plans
Subdivision Plat or Amended Plat	Plat
Engineer's Cost Estimate	Cost Est
Phase II Drainage Report	Ph II Drn Rpt
Phase III Drainage Report	Ph III Drn Rpt
Preliminary Utility Report	Prelim Util Rpt
Final Utility Report	Final Util Rpt
Title Commitment	Title
Project Narrative	Narrative
Proposed Haul Route Map	Haul Route
Daily Construction Traffic Map	Daily Const Map
Proposed Easement Legal & Exhibit	Easement
Construction Documents Checklist	CD Checklist
Drainage Report Checklist	Drn Rpt Checklist
Utility Report Checklist	Util Rpt Checklist
Abutter's Notice	Abutters
Mineral Rights Affidavit	Min Rights
Land Suitability Analysis Report	LSAR
Traffic Impact Study	TIS
Auto-Turn Exhibit	Auto-Turn
Plat Boundary Closure Report	Closure Rpt
GESC Engineer's Cost Estimate	GESC Cost Est
GESC Report	GESC Rpt



Development Services Department
 100 N. Wilcox Street, Castle Rock CO 80104
 Planner of the Day – 303-660-1393

Temporary Erosion and Sediment Control (TESC) Drawing and Report Checklist

A complete Temporary Erosion and Sediment Control (TESC) submittal will contain the following information. Please check off the items to ensure that your application is complete. Please submit one (1) electronic copy of each document required. Drawing sets should be 24" x 36". Recommended scales include 20', 50' and 10'. PDF format is preferred.

Pre-Application Meeting Date: _____ Project Manager: Larry Hearold

Email: lhearold@crgov.com Phone: 720-733-3579

Req'd	Cmpl'd	Subm'd	Submittal Checklist
☒	☒	☒	LAND USE APPLICATION (completed/ signed)
☒	☒	☒	SUBMITTAL CHECKLIST (completed)
☒	N/A	N/A	DEVELOPMENT REVIEW FEE (Amt. Req'd \$ <u>435.00</u> Amt. Rec'd \$ _____)
☒	N/A	N/A	PROPERTY OWNER APPROVAL If any work is proposed on land not owned by the applicant, a letter of approval from the landowner is required.
☒	☒	☒	TESC DRAWINGS containing the initial, interim and final TESC drawings for the site, including Town Standard TESC detail sheets. Cut and fill quantities need to be indicated as well. Please prepare in accordance with the Town's TESC Manual, found online at http://www.CRgov.com/TESC
☒	N/A	N/A	TESC REPORT containing all items listed in the following TESC Report checklist.
☒	☒	☒	ENGINEER'S TESC COST ESTIMATE using Town standard template, stamped by a Professional Engineer. http://www.CRgov.com/TESC
☒	N/A	N/A	HAUL ROUTE MAP If any material is going to be exported or imported to the site, a Haul Route map must be submitted for Town review and approval. Any import or export sites located within the Town of Castle Rock jurisdiction will require a TESC permit as well, unless the site already has an active permit.
☒	N/A	N/A	TECHNICAL CRITERIA VARIANCE Complete a Technical Criteria Variance form with appropriate supporting information describing any proposed deviations from the Technical Design Criteria in the TESC Manual.
☒	☒	☒	CHECKLISTS Submit any checklist used for Drawing preparation and all reports

A complete set of Temporary Erosion and Sediment Control (TESC) Plans should contain the following information. The specific drawing sheets are listed below in the order they should appear in the Plan set. All TESC plans submitted to the Town of Castle Rock (TCR) for review, comment, and approval shall be prepared by, or under the direct supervision of a Professional Engineer, licensed in the State of Colorado. TESC Plans shall be in accordance with the requirements of the Town of Castle Rock TESC Manual, as amended.

TESC DRAWING AND REPORT CHECKLIST. A copy of this TESC Drawing and Report Checklist must be completely filled out, signed by the designer, and submitted with the TESC Plan.

SIGNATURE _____
 Registered Professional Engineer

Req'd	Cmpl'd	Subm'd	
COVER SHEET			
✓			1. Project name.
✓			2. Project address (if applicable).
✓			3. Owner address.
✓			4. Design firm's name and address.
✓			5. Drawing sheet index.
✓			6. Designer's Signature Block.
✓	✓	✓	7. The following note: THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN INCLUDED HEREIN IS ON FILE AT THE TOWN OF CASTLE ROCK AND APPEARS TO FULFILL APPLICABLE TOWN OF CASTLE ROCK TEMPORARY EROSION AND SEDIMENT CONTROL CRITERIA, AS AMENDED. ADDITIONAL TEMPORARY 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.
✓	✓	✓	8. TESC Plan Designer's signature block with name, date, and Professional Engineer registration number. Signature block shall include the following note: THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE REQUIREMENTS OF THE TEMPORARY EROSION, AND SEDIMENT CONTROL (TESC) MANUAL OF THE TOWN OF CASTLE ROCK AS AMENDED.
✓	✓	✓	9. Town of Castle Rock acceptance block.
✓			10. General Location Map Show at a scale of 1-inch to 1000-feet to 8000-feet indicating: <ul style="list-style-type: none"> • General vicinity of site location. • Major roadway names. • North arrow and scale.
TESC DRAWING INDEX SHEET			
✓			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 TESC DRAWING			
This Drawing sheet shall provide temporary erosion and sediment controls for the initial clearing, grubbing and grading of a project. Control measures should generally be sufficient to cover construction activities through the completion of overlot grading. At a minimum, it shall contain:			
✓	✓	✓	1. Property Lines.
✓	✓	✓	2. Existing topography at one-or two-foot contour intervals, extending a minimum of 100 feet beyond the property line.
✓	✓		3. Location of any existing structures or hydraulic features within the mapping limits.
✓	✓	✓	4. USGS Benchmark used for project and note that NAVD88 Datum was used.
✓	✓	✓	5. Limits of construction encompassing all areas of work, 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.
✓	N/A	N/A	6. Location of stockpiles, including topsoil, imported aggregates, and excess material.
✓	✓	✓	7. Location of storage and staging areas for equipment, fuel, lubricant, chemical (and other materials) and waste storage.
✓			8. Outlines of cut and fill areas.
✓	✓	✓	9. Summary of cut and fill volumes.

Req'd	Cmpl'd	Subm'd	
INITIAL TESC DRAWING CONTINUED			
✓	N/A	N/A	10. Location of temporary roads.
✓	N/A	N/A	11. Location of borrow or disposal areas.
✓	✓	✓	12. Location, map symbol, and letter callouts of all initial erosion and sediment control measures.
✓	✓	✓	13. Information to be specified for each control measure, such as type and dimensions, as called for in the Standard Notes and Details.
✓	✓	✓	14. Control Measure Legend from the cover sheet of the Standard Notes and Details.
✓	✓	✓	15. The following notes: <ul style="list-style-type: none"> REMOVAL OF CONTROL MEASURES SHALL NOT OCCUR WITHOUT THE APPROVAL OF THE STORMWATER INSPECTOR. ALL PAVED SURFACES MUST REMAIN FREE OF SEDIMENT AND REQUIRE CLEANING, INCLUDING STREET SWEEPING, AS NEEDED.
✓	✓	✓	16. Town of Castle Rock acceptance block.
✓	✓	✓	17. Design Engineer's signature block.
✓	✓	✓	18. Other information as may be reasonably required by the Town of Castle Rock
INTERIM TESC DRAWING			
This drawing sheet shows erosion and sediment control measures during site construction. At a minimum, it shall contain the following information:			
✓	✓	✓	1. Existing topography at one-or two-foot contour intervals, extending a minimum of 100 feet beyond the property line, as shown on the Initial TESC Drawing. These contours shall be screened.
✓	✓	✓	2. Location of all existing erosion control measures on site, as shown on the Initial TESC Drawing. These control measures shall be screened. Dimension information for initial stage control measures shall not be shown.
✓	✓	✓	3. Items 1,2, and 4 through 10 from the Initial TESC Drawing.
<i>In addition, the Interim TESC Drawing shall include the following:</i>			
✓	✓	✓	4. Proposed Topography at one-or two-foot contour intervals, showing elevations, dimensions, locations and slope of all proposed grading.
✓	✓	✓	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.
✓	✓	✓	6. Location 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 part of, the proposed work, per approved plat, SDP, or other improvement plan.
✓	✓	✓	7. The Control Measure Legend from the cover sheet of the Town of Castle Rock Standard Notes and Details.
✓	✓	✓	8. The following notes: <ul style="list-style-type: none"> SHADED CONTROL MEASURES WERE INSTALLED IN INITIAL STAGE AND SHALL BE LEFT IN PLACE IN INTERIM STAGE UNLESS OTHERWISE NOTED. SEE PUBLIC IMPROVEMENT CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, WATER QUALITY FACILITIES, CULVERTS, AND STORM DRAINS. REMOVAL OF CONTROL MEASURES SHALL NOT OCCUR WITHOUT THE APPROVAL OF THE STORMWATER INSPECTOR. ALL PAVED SURFACES MUST REMAIN FREE OF SEDIMENT AND REQUIRE CLEANING, INCLUDING STREET SWEEPING, AS NEEDED.
✓	✓	✓	9. Town of Castle Rock acceptance block.
✓	✓	✓	10. Design Engineer's signature block.

Req'd	Cmpl'd	Subm'd	
FINAL TESC DRAWING			
This drawing sheet shows controls for final completion of the site including final stabilization and temporary sediment controls through revegetation. At a minimum, this drawing sheet shall contain the indicated information.			
<i>The Final TESC Drawing shall include all information shown on the Initial and Interim Drawings, as noted below:</i>			
✓	✓	✓	1. Existing Topography in areas of proposed contours need not be shown.
✓	✓	✓	2. Existing Initial and Interim control measures shall be shown, (screened). Dimension information shall not be shown.
<i>In addition, the following information shall be shown:</i>			
✓	✓	✓	3. Directional flow arrows on all drainage features.
✓	✓	✓	4. Any Initial or Interim control measures that are to be removed and any resulting disturbed area to be stabilized.
✓	✓	✓	5. Location of all Final erosion and sediment control measures (including seeding and mulching of any areas not stabilized in the Interim Plan), permanent landscaping, and measures necessary to minimize erosion and the movement of sediment off site until permanent vegetation can be established.
✓	✓	✓	6. Show area of buildings, pavement, sod, and permanent landscaping (define types) per accepted plat, SDP, SIA, or other improvement plan or agreement.
✓	✓	✓	7. Show seeding and mulching (SM) everywhere except buildings and pavement areas.
✓	✓	✓	8. Show other control measures considered by the designer to be appropriate.
✓	✓	✓	9. Show the following control measures to be removed prior to the 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 vehicle tracking control (VTC) to be removed. • Indicate construction fence (CF) to be removed.
✓	✓	✓	10. The Control Measure Legend from the cover sheet of the Town of Castle Rock Standard Notes and Details.
✓	✓	✓	11. Include the following notes: <ul style="list-style-type: none"> • SHADED CONTROL MEASURES WERE INSTALLED IN INITIAL OR INTERIM TESC DRAWING AND, UNLESS OTHERWISE INDICATED, SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE TOWN. • SEE PUBLIC IMPROVEMENT CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES, SUCH AS DETENTION FACILITIES, WATER QUALITY FACILITIES, CULVERTS AND STORM DRAINS. • REMOVAL OF CONTROL MEASURES SHALL NOT OCCUR WITHOUT THE APPROVAL OF THE STORMWATER INSPECTOR. • ALL PAVED SURFACES MUST REMAIN FREE OF SEDIMENT AND REQUIRE CLEANING, INCLUDING STREET SWEEPING, AS NEEDED.
✓	✓	✓	11. Town of Castle Rock acceptance block.
✓	✓	✓	12. Design Engineer's signature block.
✓	✓	✓	13. Other information as may be reasonably required by the Town of Castle Rock.

Req'd	Cmpl'd	Subm'd
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VERTICAL RESIDENTIAL TESC DRAWING

This drawing is to be prepared in a separate, stand-alone set and shall provide temporary erosion and sediment controls for Vertical Residential Construction following completion of subdivision improvements. Control measures should generally be sufficient to cover construction activities, including over excavation, through the completion of all residential homes. At a minimum, it shall contain:

The Vertical Residential TESC Drawing shall include all information shown on the Final TESC Drawing, as noted below:

			1. Only existing Final erosion control measures shall be shown, (screened ; dimension information shall not be shown) including seeding and mulching, erosion control blanket and perimeter controls.
<i>In addition, the following information shall be shown:</i>			
			2. Cover sheet per Section 3.18.1 (or Page 2 of this checklist).
			3. Topography at one- or two-foot contour intervals.
			4. Directional flow arrows on all drainage features.
			5. Limits of disturbance required for all vertical construction activities
			6. Shade all tracts and lots not owned by the permittee.
			7. New control measures behind back of sidewalk and all abutting open tracts and existing sediment controls that will become the responsibility of the permittee shall be shown in bold.
			8. Location of Staging Area(s), VTCs, Concrete Washout Area(s) and Stockpile Area(s). If these items are intended to be relocated throughout the construction process, show the initial location on the drawing.
			9. Location of other control measures considered by the designer to be appropriate.
			10. Label lot numbers, street addresses and lot grading type (A or B) on each lot. Interior lot control measures do not need to be shown as standard details for A and B lots are provided in the Standard Notes and Details.
			11. The Control Measure Legend from the cover sheet of the Town of Castle Rock Standard Notes and Details.
			12. Include the following notes: 1. CONTROL MEASURES INSTALLED PER FINAL TESC DRAWING TRANSFER TO THE PERMITTEE AND SHALL BE LEFT, OR REPLACED, UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE TOWN OR VERTICAL LOT CONSTRUCTION IS COMPLETE. 2. IF LOCATION(S) OF VTC(S), STOCKPILE(S), STAGING AREA(S) AND CONCRETE WASHOUT AREA(S) CHANGE DURING CONSTRUCTION, THE PERMITTEE SHALL REVISE THE DRAWING ACCORDINGLY AND MUST SHOW APPROPRIATE CONTROL MEASURES IMPLEMENTED AT ALL TIMES. 3. ALL STRUCTURAL CONTROL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION AT ALL TIMES AND ARE SUBJECT TO INSPECTION AND ENFORCEMENT UNDER THE TESC PERMIT. 4. IF SEDIMENT OR OTHER POLLUTANTS ARE TRACKED, SPILLED, OR WASHED ONTO STREETS, PERMITTEE SHALL CLEAN THE STREETS IN ACCORDANCE WITH TOWN APPROVED METHODS, OR AS DIRECTED BY THE STORMWATER INSPECTOR. FAILURE TO CLEAN UP TRACKING OF MATERIAL ONTO STREETS WILL RESULT IN AN IMMEDIATE STOP WORK ORDER. 5. PERMITTEE SHALL NOT STOCKPILE, PLACE OR STORE ON STREETS, SIDEWALKS OR STORM WATER FLOW LINES EARTH MATERIALS AND LANDSCAPE MATERIALS, SUCH AS SOD, COMPOST, DIRT, ROCK AND MULCH. STOCKPILING OF SUCH MATERIALS IN THE RIGHT-OF-WAY MAY RESULT IN AN IMMEDIATE STOP WORK ORDER. 6. PERMITTEE SHALL ENSURE THAT ALL CONCRETE WASHOUT AREAS ARE PROPERLY INSTALLED, POSTED AND CLEANED SUCH THAT ALL WASTEWATER IS CONTAINED AND DOES NOT ENTER THE STORM DRAIN SYSTEM. FAILURE TO PROPERLY MAINTAIN CONCRETE WASHOUT AREAS SUCH THAT A DISCHARGE OCCURS WILL RESULT IN A STOP WORK ORDER AND/OR AN IMMEDIATE CLEANUP ORDER. 7. PERMITTEE SHALL ENSURE THAT ALL SANITARY FACILITIES ARE PROPERLY SECURED TO THE GROUND TO PREVENT TOPPLING AND DISCHARGE OF LIQUID WASTE. FAILURE TO PROPERLY SECURE SANITARY FACILITIES WILL RESULT IN A VIOLATION.

Req'd	Cmpl'd	Subm'd	
VERTICAL RESIDENTIAL TESC DRAWING CONTINUED			
			<p>12. Include the following notes, continued:</p> <p>8. PERMITTEE SHALL ENSURE THAT THE TESC DRAWING REMAINS UPDATED WITH CURRENT FIELD CONDITIONS. FAILURE TO MAINTAIN THE TESC DRAWING MAY RESULT IN A VIOLATION.</p> <p>9. REMOVAL OF CONTROL MEASURES SHALL NOT OCCUR WITHOUT THE APPROVAL OF THE STORMWATER INSPECTOR.</p>
			13. FEMA Floodplain limits shall be shown if within planned or adjacent areas.
			14. Town of Castle Rock acceptance block.
			15. Design Engineer's signature block.
			16. Other information as may be reasonably required by the Town of Castle Rock.

N/A. Low impact site < 1AC disturbed.

Req'd	Cmpl'd	Subm'd	
TESC REPORT A complete Temporary Erosion and Sediment Control (TESC) Report should contain the following information. TESC Reports shall be in accordance with the requirements of the Town of Castle Rock TESC Manual, as amended.			
✓			1. <u>Name, Address, and Telephone Number of the Applicants</u> —The name, address, and telephone number of the Professional Engineer preparing (or supervising the preparation of) the TESC Plan shall also be included if different from the Applicants.
✓			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 the project location or the latitude and longitude of the approximate center of the project.
✓			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.
✓			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.
✓			5. <u>Soils</u> —A brief description of the soils on the site including information on soil type and names, mapping unit, erodibility, permeability, hydraulic 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 Town, or the applicable Soil Survey prepared by the Natural Resources Conservation Service).
✓			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.
✓			7. <u>Erosion and Sediment Control Measures</u> —A description of the methods presented in the TESC Manual that will be used to control erosion and sediment on the site.
✓			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 measures. Indicate the anticipated starting and completed time periods of individual project phases.
✓			9. <u>Permanent Stabilization</u> —A brief description, including applicable specifications, of how the site will be stabilized after construction is completed.
✓			10. <u>Stormwater Management Considerations</u> —Explain how stormwater runoff from and through the site will be handled during construction.
✓			11. <u>Maintenance</u> —Any special maintenance requirements over and above what is identified in the standard notes and details.
✓			12. <u>Opinion of Probable Cost for Installation and Maintenance of Controls</u> —An opinion of probable costs for erosion and sediment control, including anticipated maintenance during the construction phase, shall be submitted with the TESC Plan. This will be reviewed by Town staff and used as a basis for fiscal surety. A copy of a spreadsheet to be used for preparing the opinion of probable costs for erosion and sediment control is included in Appendix H of the TESC Manual. An electronic copy of the spreadsheet is available from the Plan Review Engineer. Unit Costs used to develop probable erosion and sediment control costs shall be those shown in the spreadsheet.
✓			13. <u>Calculations</u> —Any calculations made for the design of such items as sediment basins or erosion control blanket selection.
✓			14. <u>Other Information</u> —Any other information as reasonably required by the Town of Castle Rock.
✓			15. <u>The Following Note</u> : "This Temporary Erosion and Sediment Control Plan is on file at the Town of Castle Rock and appears to fulfill the applicable Town of Castle Rock Temporary 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."
✓			16. <u>Signature Page</u> —For Permittees acknowledging the review and acceptance of responsibility, and a statement by the Professional Engineer acknowledging responsibility for the preparation of the TESC Plan.
✓			17. <u>Town of Castle Rock Acceptance Block</u> .

Development Review Guidelines

PROJECT NAME: Mitchell Gulch

Project Coordinator Sean Madden Email smadden@crgov.com Phone Number 720-733-2234

PROJECT REQUIREMENTS:

Project Review Type	Required Y/N	FEES	Checklist (attached)
Administrative Site Development Plan (SDP)	No		
Plat / Re-Plat	No		
Subdivision Improvement Agreement (SIA)	No		
Construction/Civil Documents (CD's)	Yes		
Temporary Erosion Sediment Control Plan (TESC)	Yes		
TESC Vertical TESC (for Residential Projects)	No		
Project Permits Required			
Construction Permit & Surety * Construction Permit Fees and Sureties are based on the final approved plans	Yes	Internal transfer of fees	
TESC Permit and Surety * TESC Permit fees and Surety are based on the final approved plans	Yes	Internal transfer of fees	
TESC Vertical Permit and Surety*	No		
Irrigation Permit * TBD			
For building permit information please contact the Building Division at buildingcounter@crgov.com .			

***Your Project Coordinator will work with you for the exact fees for Construction and TESC Permits and Surety amounts and Irrigation Permit requirements as your project progresses.**

Development Review Fact Sheet

Review Timelines:

Please send all submittals to: deverview@crgov.com

Review Timelines:

1st Review - 3.5 Weeks depending on the project size

Subsequent Reviews:

Based on comments from staff your project will be given an overall rating. The overall rating is based on the most comprehensive review time required for your next submittal.

Review Ratings:

- Red - 3.5 Weeks – Substantial redesign of plans or major changes to reports
- Yellow - 2.5 Weeks - Moderate changes to plans or reports
- Green w/Revisions – 6 Business days - Minor corrections to plans or reports

Pre –Submittal Meetings:

A pre-submittal meeting is required for the first submittal of all projects. Pre-Submittal meetings can be electronic, remote or in person.

Concurrent Reviews:

The Town of Castle Rock does allow concurrent reviews. Our recommendation is that Plats, Construction Documents and TESC be submitted for first review after you have received your first round review comments from the SDP.

Easements:

Please identify any onsite or offsite easements to be dedicated by separate document. Executed easements are required prior to the recording of the SDP and/or Plat and before construction permits can be issued. There are fees associated with the review and recording of the easements by separate document.



N/A. Low impact site < 1AC disturbed.

Attachment D

Summary of Water Quality Conformance to MS4 Permit

The purpose of this worksheet is to document conformance with the Town of Castle Rock's MS4 permit with regard to permanent water quality on land disturbance projects.

Project Name _____

Project Owner _____

Project Location _____

ToCR Project Number _____

Total Site Area _____ acres

Total Size of Common Plan of Development _____ acres

Check all that apply:

☐ **Project within Plum Creek Basin**

☐ **Project within Cherry Creek Basin**

Estimated construction completion date _____

1. The water quality control measure(s) for applicable development sites shall meet one of the following base design standards as per the SDDTCM Section 14.4. Please select all design standards that were applied to meet conformance with the MS4 on this site.

- ☐ WQCV standard
- ☐ Pollutant removal standard
- ☐ Runoff reduction standard
- ☐ Applicable site draining to regional WQVC control measure (accepts drainage prior to discharging to WOTS)
- ☐ Applicable site draining to regional WQVC control facility (with receiving pervious area control measure upstream of WOTS)
- ☐ Constrained redevelopment sites standard
 - Imperviousness of existing site _____/_____ (Imp. Ac/Site Ac) = ____%
 - Variance required TCV No. _____
- ☐ Existing control measure with WQCV per previous criteria standards
 - Reference Construction Permit No. _____
- ☐ Cherry Creek Basin only, choose one: ☐ Tier 1 ☐ Tier 2 ☐ Tier 3
- ☐ No control measures provided (See Permanent WQ Worksheet for applicability)

Summary of Water Quality Conformance to MS4 Permit

2. Was an exclusion to water quality applied as per SDDTCM Section 13.1.5? ☐ Yes ☐ No

i. If yes, please select all that apply, provide total excluded impervious area(s) and submit variance, as applicable: TCV No. _____

- ☐ Pavement management site
Excluded impervious area: _____ acres
- ☐ Excluded roadway redevelopment
Excluded impervious area: _____ acres
- ☐ Excluded existing roadway areas
Excluded impervious area: _____ acres
- ☐ Above ground and below ground utilities
- ☐ Large lot single family home
- ☐ Non-residential and non-commercial infiltration
Excluded impervious area: _____ acres
- ☐ Land disturbance for land to remain undeveloped
Excluded impervious area: _____ acres
- ☐ Stream Stabilization Sites
Excluded impervious area: _____ acres
- ☐ Trails
Excluded impervious area: _____ acres
- ☐ Oil and Gas Exploration

3. For Development and Redevelopment sites, following any exclusions claimed above, was any portion of the site excluded up to 20% of the site and not to exceed one acre? ☐ Yes ☐ No

If yes, complete the following:

Excluded area: _____ acres
Total Site area: _____ acres, _____ % site excluded

4. For Constrained sites, was any portion of the site excluded up to 50% of the site and not to exceed 50% of the impervious area? ☐ Yes ☐ No

If yes, complete the following:

Excluded area: _____ acres
Excluded impervious area: _____ acres
Total Site area: _____ acres, _____ % site excluded
Total Impervious area: _____ acres, _____ % impervious excluded

Permanent Water Quality Determination Worksheet (Taken from 2019 SDDTCM Sections 13.1.4 and 13.1.5)

Project:		Project#		Applicant:
Section	Questions	Response	Check those that apply	Instructions
1	Non-applicable Sites			
1.1	Will the project result in a temporary disturbance of greater than one acre?	No Yes	☐ ☐	Proceed to section 1.2. Proceed to section 2.
1.2	Is the project part of a larger common plan of development or sale where multiple separate and distinct construction activities may be taking place at different times on different schedules, but remain related and are within 1/4 mile of each other? (A common plan of development will generally be documented on a site development plan, master plan, or equivalent, for the property/project)	No Yes	☐ ☐	Proceed to section 1.3. Proceed to section 2.
1.3	Is the project within the Cherry Creek Watershed?	Yes No	☐ ☐	Permanent water quality control measures may be required. Refer to Water Quality Control Regulation 72.7 for details and allowable exclusions. Permanent water quality control measures are not required.
2	Applicable Site Types and Exclusions by Variance			
2.1	Does the project have more than 35% impervious area on the existing site?	No Yes	☐ ☐	Project is an applicable Development Site. Proceed to section 3. Proceed to 2.2.
2.2	Does the project have greater than 75% impervious area on the existing site?	No Yes	☐ ☐	Project is an applicable Redevelopment Site. Proceed to section 3. Project is an applicable Constrained Redevelopment Site. Proceed to 2.3.
2.3	Will 100% of the runoff from the existing and proposed site be captured and treated using one or more of the allowable design standards for permanent water quality?	Yes No	☐ ☐	No further action required. Proceed to 2.4.
2.4	Do any other water quality exclusions apply to the site?	No Yes	☐ ☐	Portions of the project are excluded. Proceed with design in accordance with Constrained Redevelopment standards and apply for variance for <u>Constrained Redevelopment Sites</u> . Proceed to section 3. Following approval of other exclusions, design remaining site in accordance with Constrained Redevelopment standards and apply for variance for <u>Constrained Redevelopment Sites</u> .
3	Applicable Sites with Other Exclusions by Variance			
3.1	Category 1: Roadways, bridges and trails only			
3.1.1	Is the project a bike or pedestrian trail?	Yes No	☐ ☐	Proceed to next line. Proceed to 3.1.2.
	Is the trail for a roadway?	Yes No	☐ ☐	Proceed to 3.1.2. Project is excluded. Submit variance for <u>Trails Excluded from Permanent Water Quality Requirements</u> .
3.1.2	Is the project primarily used for parking or access to parking?	Yes No	☐ ☐	This exclusion does not apply. Permanent water quality is required. Proceed to 3.1.3.
3.1.3	Does the project add impervious area?	No Yes	☐ ☐	Project is excluded. Submit variance for <u>Pavement Management Sites Excluded from Permanent Water Quality Requirements</u> . Proceed to 3.1.4.

Section	Questions	Response	Check those that apply	Instructions
3.1.4	Does the project add more than 8.25 feet of paved width at any location to the existing roadway?	No	☐	Project is excluded. Submit variance for <u>Roadway Redevelopment Sites Excluded from Permanent Water Quality Requirements</u> .
		Yes	☐	Proceed to next line.
	Does the project add more than one acre of paved area per mile to an existing roadway?	No	☐	Project is excluded. Submit variance for <u>Roadway Redevelopment Sites Excluded from Permanent Water Quality Requirements</u> .
		Yes	☐	Proceed to next line.
	Does the project increase the width by two times or more, on average, of the original roadway area?	No	☐	Existing areas of site are excluded only. Submit variance for <u>Existing Roadway Surfaces Only Excluded from Permanent Water Quality Requirements</u> .
		Yes	☐	This exclusion does not apply. Permanent water quality is required.
3.2	Category 2: Non-residential and non-commercial projects only			
3.2.1	Is the project associated with oil and gas exploration, production, processing, or treatment operations or transmission facilities, including activities necessary to prepare a site for drilling and the movement and placement of drilling equipment?	Yes	☐	Project is excluded. Submit variance for <u>Oil and Gas Exploration Sites Excluded from Permanent Water Quality Requirements</u> .
		No	☐	Proceed to 3.2.2.
3.2.2	Is the project for stream stabilization?	Yes	☐	Project is excluded. Submit variance for <u>Stream Stabilization Sites Excluded from Permanent Water Quality Requirements</u> .
		No	☐	Proceed to 3.2.3.
3.2.3	Is the project for installation or maintenance of aboveground or underground utilities or infrastructure that does not permanently alter the terrain, ground cover, or drainage patterns from those present prior to the construction activity including activities to install, replace or maintain utilities under roadways or other paved areas that return the surface to the same condition?	Yes	☐	Project is excluded. Submit variance for <u>Aboveground and Underground Utilities Excluded from Permanent Water Quality Requirements</u> .
		No	☐	Proceed to 3.2.4.
3.2.4	Is the project on undeveloped land (land with no human-made structures such as buildings or pavement) that will remain undeveloped after the project?	Yes	☐	Project is excluded. Submit variance for <u>Sites with Land Disturbances to Undeveloped Land that will Remain Undeveloped Excluded from Permanent Water Quality Requirements</u> .
		No	☐	Proceed to 3.2.5.
3.2.5	Will the post-project condition result in surface water discharge during the 80th percentile storm runoff event?	No	☐	Project is excluded. Submit study along with variance for <u>Non-residential and Non-commercial Infiltration Conditions Excluded from Permanent Water Quality Requirements</u> .
		Yes	☐	This exclusion does not apply. Permanent water quality is required.
3.3	Category 3: Residential, Agricultural and Commercial projects			
3.3.1	Is the project a single-family residential lot, or agricultural zoned lands, greater than or equal to 2.5 acres in size per dwelling unit?	Yes	☐	Proceed to next line.
		No	☐	Proceed to 3.3.2.
	Is the project site greater than 10% impervious?	No	☐	Project is excluded. Submit variance for <u>Large Lot Single Family Sites Excluded from Permanent Water Quality Requirements</u> .
		Yes	☐	Proceed to next line.
	Is the project site greater than 20% impervious?	Yes	☐	This exclusion does not apply. Permanent water quality is required.
		No	☐	Proceed to next line.
	Will the post-project condition result in surface water discharge during the 80th percentile storm runoff event?	No	☐	Project is excluded. Submit study along with variance for <u>Large Lot Single Family Sites Excluded from Permanent Water Quality Requirements</u> .
		Yes	☐	This exclusion does not apply. Permanent water quality is required.

Section	Questions	Response	Check those that apply	Instructions
3.3.2	Will 100% of the runoff from the residential or commercial site be captured?	Yes No	☐ ☐	This exclusion does not apply. Permanent water quality is required. Proceed to next line.
	Is all or a portion of the site undeveloped or will it remain undeveloped after construction?	Yes No	☐ ☐	This portion of the project is excluded. Submit variance for <u>Sites with Land Disturbance to Undeveloped Land that will Remain Undeveloped Excluded from Permanent Water Quality Requirements</u> . Proceed to next line. Proceed to next line.
	Is the remaining untreated impervious area greater than 20% of the site?	Yes No	☐ ☐	This exclusion does not apply. Permanent water quality is required. Proceed to next line.
	Is the remaining untreated impervious area greater than one acre?	Yes No	☐ ☐	This exclusion does not apply. Permanent water quality is required. Proceed to next line.
	Is it practicable to capture runoff from portions of the site that will not drain to a control measure?	No Yes	☐ ☐	Document justification demonstrating that it is not practicable to capture runoff from this portion of the site in the drainage report . No further action is needed. This exclusion does not apply. Permanent water quality is required.

