McInnis ENGINEERING

202 East 34th Street
Tacoma WA, 98404

Redlines Response Memo

RE: PRGR20230972 – 1st Review Redline Responses

ME Project Number: 22-245

Date: 07 / 27 / 2023

Redline Comments and Resolution

Comment	Response	Reviewer:	Page
See Civil application PRCCP20230970 for review comments associated with the stormwater report. Incorporate those comments into the CFG design as appropriate. [Storm Report; Pg 1 of 164]	Acknowledged	Mark Higginson	
1st Review PRGR20230972 July 2023		Mark Higginson	
Revise the CSWPPP to provide the project-specific information outlined in Ecology's SWPPP template. [CSWPPP; Pg 1 of 14]	CSWPPP has been revised with project specific information.	Mark Higginson	1
Revise accordingly. [CSWPPP; Pg 3 of 14]	Table of Contents has been revised and includes all appendix additions	Mark Higginson	3
In an appendix, include Ecology's BMP descriptions and details being used on the site as applicable: BMPs C102 // C103 // C105 // C106 // C107 // C120 // C121 // C123 // C140 // C150 // C151 // C152 // C153 // C154 // C160 // C200 // C201 // C207 // C208 // C209 // C220 // C233 // C235 // C241 // C251. [CSWPPP; Pg 3 of 14]	Listed BMPs have been added see Appendix B.	Mark Higginson	3
See Ecology, Section II-2.4 for additional items to be included in the CSWPPP: Discuss Critical Areas // Discuss Onsite Soils (soils map and descriptions) // Include a Vicinity Map. [CSWPPP; Pg 3 of 14]	Vicinity Map has been added see Figure 1. Ecology Section II-2.4 items need to be added. Critical Areas discussed. Add onsite soil discussion.	Mark Higginson	3
Include a sample CSWPPP Site Inspection Form. [CSWPPP; Pg 3 of 14]	Sample CSWPPP Inspection form has been added. See Appendix D	Mark Higginson	3

Include the following City Standard Details in the CSWPPP: 02.03.02 // 05.01.01 // 05.02.01. [CSWPPP; Pg 3 of 14]	Puyallup standard details have been added. See Appendix C.	Mark Higginson	3
Verify-...4054? ...4053 is listed twice. [CSWPPP; Pg 4 of 14]	Parcel numbers verified.	Mark Higginson	4
For each element, list the associated BMP number(s) from the Ecology Manual for the chosen BMP. [CSWPPP; Pg 4 of 14]	BMPs listed under each element	Mark Higginson	4
Revise-the property is 11+ acres, and the area enclosed by silt fence on Sht C-2 is 10+ acres. [CSWPPP; Pg 4 of 14]	Area revised.	Mark Higginson	4
Address protecting the existing storm facility serving the properties to the south as well as the regulated stream that runs through it. [CSWPPP; Pg 4 of 14]	BMPs added	Mark Higginson	4
Describe what is required if sediment is tracked off-site onto the public ROW. [CSWPPP; Pg 4 of 14]	Addressed	Mark Higginson	4
Provide commentary that the permanent flow control systems must be constructed and functioning prior to constructing onsite hard surfaces. [CSWPPP; Pg 4 of 14]	Added to CSWPPP narrative	Mark Higginson	4
Clarify-Baker Tanks are called out on Sht C-2 (pg 8 of 14) in this SWPPP. Are they to be used in conjunction with the sediment pond? As a fail-safe? [CSWPPP; Pg 4 of 14]	Addressed Baker tanks are being used instead of sediment pond.	Mark Higginson	4
Add that this element must be completed prior to mass grading operations. [CSWPPP; Pg 4 of 14]	Added to CSWPPP	Mark Higginson	4
Describe how to respond if sediment controls are ineffective and turbid water is observed discharging from the site. [CSWPPP; Pg 4 of 14]	Added to monitoring section of report	Mark Higginson	4
Provide additional description...(i.e. temporary and permanent seeding, mulching, erosion control fabrics, etc.). [CSWPPP; Pg 5 of 14]	Added to CSWPPP and plans	Mark Higginson	5
Add: -Stabilize soils at the end of the shift before a holiday or weekend if needed based on the weather forecast. -Stabilize soil stockpiles from erosion, protect with sediment trapping measures, and where possible locate stockpiles away from drainage facilities (waterways, storm inlets, channels, etc.) [CSWPPP; Pg 5 of 14]	Text added to element #5	Mark Higginson	5

Address dust control also. [CSWPPP; Pg 5 of 14]		Mark Higginson	5
Add: -Divert offsite surface water (run-on) away from slopes and disturbed areas with interceptor dikes, swales, and/or pipes. Offsite surface water should be managed separately from surface water generated onsite. [CSWPPP; Pg 5 of 14]	Text added to element #6	Mark Higginson	5
Add: -Inlet protection devices will be cleaned (or removed and replaced), when sediment has filled the device by one third (1/3) or as specified by the manufacturer. -Inlets will be inspected weekly at a minimum and daily during storm events. [CSWPPP; Pg 5 of 14]	Text added to element #7	Mark Higginson	5
Add: -Provide stabilization, including armoring material (if approved), adequate to prevent erosion of outlets, adjacent stream banks, slopes, and downstream reaches, at the outlets of all conveyance systems. [CSWPPP; Pg 5 of 14]	Text added to element #8	Mark Higginson	5
Revise to read..."regulations and this CSWPPP". [CSWPPP; Pg 5 of 14]	Revised in element #9	Mark Higginson	5
Discuss items outlined in Ecology's CSWPPP template (waste materials, equipment maintenance and fueling activities, concrete truck washout, etc.). [CSWPPP; Pg 5 of 14]	Addressed	Mark Higginson	5
Discuss dewatering items outlined in Ecology's CSWPPP template under Element 10. [CSWPPP; Pg 5 of 14]	Addressed	Mark Higginson	5
Add additional description as outlined in Ecology's CSWPPP template under Element 11. [CSWPPP; Pg 5 of 14]	Addressed	Mark Higginson	5
Add additional description as outlined in Ecology's CSWPPP template under Element 12. [CSWPPP; Pg 5 of 14]	Addressed	Mark Higginson	5
Based on the current civil design strategy, individual LID elements are not being incorporated (project is attempting to meet the LID Performance Standard). However, this must be confirmed prior to final approval of the civil design. [CSWPPP; Pg 6 of 14]	Will confirm with final design	Mark Higginson	6
List the Pollution Prevention Team, their title, and contact info for the project. For persons yet to be determined, use "TBD". [CSWPPP; Pg 6 of 14]	Pollution Prevention team added with known contact info.	Mark Higginson	6

Provide Monitoring and Sampling criteria...for reference, see Ecology's CSWPPP template. [CSWPPP; Pg 6 of 14]	Monitoting and Sampling critera added, needs refinement.	Mark Higginson	6
Discuss Reporting and Record Keeping criteria...for reference, see Ecology's CSWPPP template. [CSWPPP; Pg 6 of 14]	Reporting and Record keeping critera added, needs refinement.	Mark Higginson	6
Include the items noted in the Appendix/Glossary of Ecology's CSWPPP template as applicable to the project. [CSWPPP; Pg 6 of 14]	Addressed	Mark Higginson	6
Verify location of inlet protection callouts. Inlet Protection shall be provided at inlets along the project frontage (Typ). [CSWPPP; Pg 8 of 14]	Callouts verified.	Mark Higginson	8
Verify-2/C2? [CSWPPP; Pg 8 of 14]	Verified	Mark Higginson	8
Clarify-Is this for filtration? TESC flow control? Both? A sediment pond is called out on the CFG plans and sediment pond calculations are provided in this document, but no sed-pond is shown here. [CSWPPP; Pg 8 of 14]	Clarified	Mark Higginson	8
Callout to protect existing watermain. [CSWPPP; Pg 8 of 14]	Callout added	Mark Higginson	8
Callout to protect existing infrastructure (sewer and signal). [CSWPPP; Pg 8 of 14]	Addressed. Callouts added	Mark Higginson	8
Coordinate this sheet with the TESC Plan in the CFG set. [CSWPPP; Pg 8 of 14]	Done	Mark Higginson	8
Verify callout...don't believe there is an inlet at this location. [CSWPPP; Pg 8 of 14]	Callout added	Mark Higginson	8
Verify-1/C3? [CSWPPP; Pg 8 of 14]	Verified	Mark Higginson	8
Sediment pond calculations are provided, but no pond is shown. If a sediment pond is to be used, provide the following information: Pond Contours // Top of Berm Elev. // Bottom Elev // Bottom Area // Surface Area Req'd // Surface Area Provided // Location of the TESC Riser // Size of Riser // Riser Orifice Size // Inlets and Outlets to Facility including protection // Baffle location and dimensions. [CSWPPP; Pg 8 of 14]	Addressed. See full Baker Tank assembly designed by Clearwater services in CSWPPP and in plan details	Mark Higginson	8
Clarify-This is an existing storm facility serving properties to the south. In addition, the storm facility is currently being regulated as a critical area due to the offsite stream that has breached the pond berm and runs through the facility. Provide more information on how this storm facility will continue to function and the	Addressed. See CSWPPP narrative	Mark Higginson	8

stream protected during the CFG operations. [CSWPPP; Pg 8 of 14]			
Clarify-Baker Tanks are discharging to the existing flow control structure serving properties to the south. Not sure how that works. [CSWPPP; Pg 8 of 14]	Discharge updated per most recent information from Soundview Consultants	Mark Higginson	8
Callout to protect existing storm drain associated with the storm facility serving properties to the south. [CSWPPP; Pg 8 of 14]	Callout added	Mark Higginson	8
How is this outlet protected during the CFG operations? [CSWPPP; Pg 8 of 14]	Addressed. See plans	Mark Higginson	8
Provide Construction Sequence per CS 501.6. [CSWPPP; Pg 8 of 14]	Construction sequence added	Mark Higginson	8
Include the City's 'Grading, Erosion and Sedimentation Control Plan Notes' per CS Section 505. [CSWPPP; Pg 8 of 14]	Control Plan notes added	Mark Higginson	8
Provide filter sock detail also. [Plans C-2; Pg 2 of 25]	Filter sock detail added	Mark Higginson	2
Callout to preserve and protect existing drainage ditch (a regulated stream) during the CFG operations. [Plans C-2; Pg 2 of 25]	Callout added	Mark Higginson	2
Delineate and callout the floodplain in accordance with the LOMR dated September 8, 2022. Any work within the designated floodplain shall comply with the requirements of PMC 21.07, particularly the compensatory storage and habitat assessment provisions. [CSWPPP; Pg 8 of 14]	Added to plans.	Mark Higginson	8
Provide sizing calculations for the proposed interceptor swale(s). [CSWPPP; Pg 9 of 14]	Sizing calcs added	Mark Higginson	9
Ecology has changed the criteria for sizing sediment ponds and traps in the 2019 manual. Resize the TESC pond using either the new 2019 Ecology criteria or the unmitigated post-developed flow rate ("inflow") from a continuous simulation model. Since this facility will discharge to the regulated stream along Pioneer, use the 10yr event. [CSWPPP; Pg 10 of 14]	TESC pond resized using new ecoloty critera, using 10 year event.	Mark Higginson	10
If Baker Tanks are/will be used, provide supporting calculations for the sizing and number of tanks using the design criteria noted above. [CSWPPP; Pg 10 of 14]	Supporting calc and baker tank info added.	Mark Higginson	10
Callout riser diameter; orifice diameter; outlet pipe size, mat'l, and slope; pipe IE; emergency spillway elev. [CSWPPP; Pg 13 of 14]	Callout added	Mark Higginson	13

Callout and show staff guage. [CSWPPP; Pg 13 of 14]	Callout added	Mark Higginson	13
Locate approval block in upper right-hand corner, all sheets, per CS Section 2.1. [Plans C-1; Pg 1 of 25]	Approval block relocated	Mark Higginson	1
Place North arrow correctly. [Plans C-1; Pg 1 of 25]	North arrow placement changed	Mark Higginson	1
Locate Vicinity Map in lower right-hand corner per CS Section 2.1. [Plans C-1; Pg 1 of 25]	Vicinty Map relocated	Mark Higginson	1
Locate address below Vicinity Map and add an abbreviated legal description below the title (1/4-section, Sec., Twp., Rng.) [Plans C-1; Pg 1 of 25]	Vicinity Map relocated and abbreviated legal description added	Mark Higginson	1
Augment the Construction Sequence-See example. [Plans C-1; Pg 1 of 25]	Construction sequence revised	Mark Higginson	1
Verify recording number. [Plans C-1; Pg 1 of 25]	Recording number verified	Mark Higginson	1
RM-20. [Plans C-1; Pg 1 of 25]	Text revised to reflect zone RM-20	Mark Higginson	1
Add the following notes to this sheet: -"At any time during construction it is determined by the City that mud and debris are being tracked onto public streets with insufficient cleanup, all work shall cease on the project until this condition is corrected. The contractor and/or the owner shall immediately take all steps necessary to prevent future tracking of mud and debris into the public ROW, which may include the installation of a wheel wash facility on-site." -"Contractor shall designate a Washington Department of Ecology certified erosion and sediment control leadperson, and shall comply with the Stormwater Pollution Prevention Plan (SWPPP) prepared for this project." -"Sediment-laden runoff shall not be allowed to discharge beyond the construction limits in accordance with the Project's NPDES General Stormwater Permit." -"Any permanent infiltration system shall not be utilized for TESC runoff. Connect infiltration system to the upstream stormwater conveyance only after construction is complete and site is stabilized and paved." [Plans C-1; Pg 1 of 25]	Notes added to cover sheet	Mark Higginson	1
Per City Standards 502.1, provide cross-sections at 200-ft spacing and extend 30-ft	Cross sections added and callouts added.	Mark Higginson	1

minimum beyond property limits. Callout setback distance between fill and property lines. [Plans C-1; Pg 1 of 25]			
Callout earthwork quantities (cut/fill). [Plans C-1; Pg 1 of 25]	Cut and fill quantites added	Mark Higginson	1
See Civil application PRCCP20230970 for review comments associated with the stormwater report. Incorporate those comments into the CFG design as appropriate. [Plans C-1; Pg 1 of 25]	Storm report comments from PRCCP20230970 incorporated as appropriate.	Mark Higginson	1
Provide filter sock detail also. [Plans C-2; Pg 2 of 25]	Filter sock detail added	Mark Higginson	2
Clarify- Silt Fence and Grading Limits are shown being located through an existing stormwater facility serving properties to the south. In addition, the storm facility is currently being regulated as a critical area due to the offsite stream that runs through the facility. Provide more information on how this storm facility will be protected, continue to function, and be restored to its original design criteria during the CFG operations. [Plans C-2; Pg 2 of 25]		Mark Higginson	2
Callout to protect existing storm drain associated with the storm facility serving properties to the south. [Plans C-2; Pg 2 of 25]	Callout added	Mark Higginson	2
How is this outlet protected during the CFG operations? [Plans C-2; Pg 2 of 25]	Addressed. See plans	Mark Higginson	2
Coordinate this sheet with the TESC Plan in the CSWPP. [Plans C-2; Pg 2 of 25]	Addressed. See plans	Mark Higginson	2
Identify the critical area buffer setback(s). Callout construction fencing along the setback line. [Plans C-2; Pg 2 of 25]	Buffer setback identified and callout added	Mark Higginson	2
Place North arrow correctly. [Plans C-2; Pg 2 of 25]	North arrow placement changed	Mark Higginson	2
Verify-interceptor swale thru the middle of the construction entrance? [Plans C-2; Pg 2 of 25]	Location verified	Mark Higginson	2
Callout interceptor swale(s). Callout max slope or provide spot elevations at 100ft intervals. [Plans C-2; Pg 2 of 25]	Spots and slopes added	Mark Higginson	2
Verify leader location. [Plans C-2; Pg 2 of 25]	Verified	Mark Higginson	2
Verify leader location. [Plans C-2; Pg 2 of 25]	Verified	Mark Higginson	2
Verify-Area 2. [Plans C-2; Pg 2 of 25]	Verified	Mark Higginson	2
Callout to protect existing storm conveyance system. [Plans C-2; Pg 2 of 25]	Callout added	Mark Higginson	2

Provide minimum 5-ft setback between toe of fill slope and any critical area buffer (CS 502.6). [Plans C-2; Pg 2 of 25]	setback and buffer added	Mark Higginson	2
Callout to protect existing watermain. [Plans C-2; Pg 2 of 25]	Callout added	Mark Higginson	2
Specify dispersion pads where the interceptor ditches enter the sediment pond (material requirements, pad dimensions including thickness). [Plans C-2; Pg 2 of 25]	Dispersion pads specified	Mark Higginson	2
Callout the following sediment pond information: Pond Contours // Top of Berm Elev. // Bottom Elev // Bottom Area // Surface Area Req'd // Surface Area Provided // Side Slopes // Location of the TESC Riser // Size of Riser // Riser Orifice Size // Inlets and Outlets to Facility including protection // Baffle location and dimensions. [Plans C-2; Pg 2 of 25]	Callouts added.	Mark Higginson	2
Callout to protect existing infrastructure (sewer and signal). [Plans C-2; Pg 2 of 25]	Callout added	Mark Higginson	2
Callout interceptor swale(s). Callout max slope or provide spot elevations at 100ft intervals. [Plans C-2; Pg 2 of 25]	Callout added	Mark Higginson	2
Ensure no ponding along adjacent properties as a result of fill. (Typical) (May need to provide a storm conveyance system to collect ponded water) [Plans C-2; Pg 2 of 25]	Detail added to plans with instructions to contractor	Mark Higginson	2
Keep filling operations within the limits of the property. Min. 2ft setback unless critical area, then 5ft to critical area buffer. (Typ) [Plans C-2; Pg 2 of 25]	Addressed	Mark Higginson	2
Verify leader location. [Plans C-2; Pg 2 of 25]	Verified location	Mark Higginson	2
Locate approval block in upper right-hand corner. [Plans C-2; Pg 2 of 25]	Approval block relocated	Mark Higginson	2
See Sht C-1 comments. [Plans C-2; Pg 2 of 25]	Acknowledged	Mark Higginson	2
Clearly show and callout the property lines (Typ). [Plans C-2; Pg 2 of 25]	Property lines redefined for clarity	Mark Higginson	2
Callout to preserve and protect existing drainage ditch (a regulated stream) during the CFG operations. [Plans C-2; Pg 2 of 25]	Callout added	Mark Higginson	2
Callout the release point and outfall for the TESC pond. Also show the emergency overflow location. [Plans C-2; Pg 2 of 25]	Callout added	Mark Higginson	2
Per Ecology, pond should be broken into equivalent cells. [Plans C-2; Pg 2 of 25]	Sediment pond removed and Baker tanks added	Mark Higginson	2

Delineate and callout the floodplain in accordance with the LOMR dated September 8, 2022. Any work within the designated floodplain shall comply with the requirements of PMC 21.07, particularly the compensatory storage and habitat assessment provisions. [Plans C-2; Pg 2 of 25]	Added to plans	Mark Higginson	2
Incorporate comments noted on Sht C-2. [Plans C-3; Pg 3 of 25]	Comments incorporated	Mark Higginson	3
Place North arrow correctly. [Plans C-3; Pg 3 of 25]	North arrow placement changed	Mark Higginson	3
Callout and show check dams. [Plans C-3; Pg 3 of 25]	Callout added	Mark Higginson	3
Proposed contours should be dark. [Plans C-3; Pg 3 of 25]	contours revised for clarity	Mark Higginson	3
Existing contours should be light. [Plans C-3; Pg 3 of 25]	contours revised for clarity	Mark Higginson	3
Existing contours should be light. [Plans C-3; Pg 3 of 25]	contours revised for clarity	Mark Higginson	3
Existing contours should be light. [Plans C-3; Pg 3 of 25]	contours revised for clarity	Mark Higginson	3
Readability. [Plans C-3; Pg 3 of 25]	Revised for legibility.	Mark Higginson	3
Ensure no ponding along adjacent properties as a result of fill. (Typical) (May need to provide a storm conveyance system to collect ponded water) [Plans C-3; Pg 3 of 25]	See detail with instructions to contractor	Mark Higginson	3
Callout to protect existing water main. [Plans C-3; Pg 3 of 25]	Callout added	Mark Higginson	3
Callout to protect existing infrastructure (sewer and signal). [Plans C-3; Pg 3 of 25]	Callout added	Mark Higginson	3
Place North arrow correctly. [Plans C-4; Pg 4 of 25]	North arrow placement changed	Mark Higginson	4
Incorporate comments noted on Sht C-2. [Plans C-4; Pg 4 of 25]	Comments incorporated	Mark Higginson	4
Callout conveyance between TESC pond and discharge location (size, material, slope, length, etc). [Plans C-4; Pg 4 of 25]	Callout added	Mark Higginson	4
If tanks to be used, WQ and Flow Control calculations must be included in CSWPPP. [Plans C-4; Pg 4 of 25]	Calculations added to CSWPPP	Mark Higginson	4
Clarify. [Plans C-4; Pg 4 of 25]	Clarified	Mark Higginson	4
Please provide TESC Pond specifics noted on Sht C-2 on this sheet also. [Plans C-4; Pg 4 of 25]	Notes added	Mark Higginson	4
Callout dispersion Pad. [Plans C-4; Pg 4 of 25]	Callout added	Mark Higginson	4
Add: "at top of riser". [Plans C-4; Pg 4 of 25]	Added	Mark Higginson	4

Callout to protect existing infrastructure (sewer and signal). [Plans C-4; Pg 4 of 25]	Callout added	Mark Higginson	4
Callout to protect existing water main. [Plans C-4; Pg 4 of 25]	Callout added	Mark Higginson	4
Show critical area setback and callout construction protective fencing. [Plans C-4; Pg 4 of 25]	Setback and callout added	Mark Higginson	4
Indicate Emergency Overflow location. [Plans C-4; Pg 4 of 25]	Location specified	Mark Higginson	4
Place North arrow correctly. [Plans C-5; Pg 5 of 25]	North arrow placement changed	Mark Higginson	5
Incorporate comments noted on Sht C-2. [Plans C-5; Pg 5 of 25]	Comments incorporated	Mark Higginson	5
Clarify-Is this an existing contour callout or proposed? [Plans C-5; Pg 5 of 25]	Clarified	Mark Higginson	5
Callout existing contour elevations. (Typ) [Plans C-5; Pg 5 of 25]	Existing contour elevations callout	Mark Higginson	5
Callout and show check dams. [Plans C-5; Pg 5 of 25]	Callout added	Mark Higginson	5
Callout proposed contour elevations. [Plans C-5; Pg 5 of 25]	Callout added	Mark Higginson	5
Show critical area setback and callout construction protective fencing. [Plans C-5; Pg 5 of 25]	Setback and callout added	Mark Higginson	5
Place North arrow correctly. [Plans C-6; Pg 6 of 25]	North arrow placement changed	Mark Higginson	6
Incorporate comments noted on Sht C-2. [Plans C-6; Pg 6 of 25]	Comments incorporated	Mark Higginson	6
Verify- C20-C25? [Plans C-6; Pg 6 of 25]	Verified	Mark Higginson	6
Callout and show check dams. [Plans C-6; Pg 6 of 25]	Callout added	Mark Higginson	6
Show existing storm facility serving properties to the south. Callout setback to the facility and construction protective fencing. [Plans C-6; Pg 6 of 25]	Callout added	Mark Higginson	6
Show and callout to protect existing storm conveyance system. [Plans C-6; Pg 6 of 25]	Callout added	Mark Higginson	6
Provide interceptor swale detail with callouts. [Plans C-7; Pg 7 of 25]	Detail and callout added	Mark Higginson	7
Add City Standard General Notes per CS Section 2.4. [Plans C-7; Pg 7 of 25]	City standard notes added	Mark Higginson	7
Include the City's 'Grading, Erosion and Sedimentation Control Plan Notes' per CS Section 505 [Plans C-7; Pg 7 of 25]	G, ESC notes added	Mark Higginson	7

Callout interceptor swale check dam spacing and provide detail with callouts. [Plans C-7; Pg 7 of 25]	Detail and callout added	Mark Higginson	7
Include the following City Standard Details in the CSWPPP: 02.03.02 // 05.01.01 // 05.02.01. [Plans C-7; Pg 7 of 25]	Standard detail added	Mark Higginson	7
Please incorporate the information contained on this generic detail into the proposed TESC pond specific to the project. (Also, see comments Sht C-2). [Plans C-7; Pg 7 of 25]	TESC pond replaced with small pond to feed Baker system. See calculations	Mark Higginson	7
Verify - C-7? [Plans C-7; Pg 7 of 25]	Verified	Mark Higginson	7
Due to high groundwater, provide a manufactured synthetic liner to prevent groundwater intrusion into the detention facilities. Callout the synthetic liner requirements and show on the RTank details. In addition, provide buoyancy verification (calculations and/or certification letter). [Plans Sht C-8; Pg 8 of 25]	Added. See R-Tank details	Mark Higginson	8
Use abbreviated legal description in title. [Plans C-8; Pg 8 of 25]	Abbreviated legal description added	Mark Higginson	8
Use abbreviated legal description in title. [Plans C-9; Pg 9 of 25]	Abbreviated legal description added	Mark Higginson	9
Use impermeable synthetic liner. [Plans C-9; Pg 9 of 25]	Impermeable liner added	Mark Higginson	9
To be verified thru the Civil application. [Plans C-9; Pg 9 of 25]	Acknowledged	Mark Higginson	9
To be verified thru the Civil application. [Plans C-10; Pg 10 of 25]	Acknowledged	Mark Higginson	10
Use impermeable synthetic liner. [Plans C-10; Pg 10 of 25]	Impermeable liner added	Mark Higginson	10
Use abbreviated legal description in title. [Plans C-10; Pg 10 of 25]	Abbreviated legal description added	Mark Higginson	10
Use abbreviated legal description in title. [Plans C-11; Pg 11 of 25]	Abbreviated legal description added	Mark Higginson	11
Use abbreviated legal description in title. [Plans C-12; Pg 12 of 25]	Abbreviated legal description added	Mark Higginson	12
Use abbreviated legal description in title. [Plans C-13; Pg 13 of 25]	Abbreviated legal description added	Mark Higginson	13
Verify - C-14? [Plans C-14; Pg 14 of 25]	Verified	Mark Higginson	14
Due to high groundwater, provide a manufactured synthetic liner to prevent groundwater intrusion into the detention facilities. Callout the synthetic liner requirements and show on the RTank details. In addition, provide buoyancy verification	Liner added with callout. Buoyancy information provided.	Mark Higginson	14

(calculations and/or certification letter). [Plans Sht C-14; Pg 14 of 25]			
Use abbreviated legal description in title. [Plans C-14; Pg 14 of 25]	Abbreviated legal description added	Mark Higginson	14
Use abbreviated legal description in title. [Plans C-15; Pg 15 of 25]	Abbreviated legal description added	Mark Higginson	15
Use impermeable synthetic liner. [Plans C-15; Pg 15 of 25]	Impermeable liner added	Mark Higginson	15
To be verified thru the Civil application. [Plans C-15; Pg 15 of 25]	Acknowledged	Mark Higginson	15
To be verified thru the Civil application. [Plans C-16; Pg 16 of 25]	Acknowledged	Mark Higginson	16
Use impermeable synthetic liner. [Plans C-16; Pg 16 of 25]	Impermeable liner added	Mark Higginson	16
Use abbreviated legal description in title. [Plans C-16; Pg 16 of 25]	Abbreviated legal description added	Mark Higginson	16
Use abbreviated legal description in title. [Plans C-17 Pg 17 of 25]	Abbreviated legal description added	Mark Higginson	17
Use abbreviated legal description in title. [Plans C-18; Pg 18 of 25]	Abbreviated legal description added	Mark Higginson	18
Use abbreviated legal description in title. [Plans C-19; Pg 19 of 25]	Abbreviated legal description added	Mark Higginson	19
Due to high groundwater, provide a manufactured synthetic liner to prevent groundwater intrusion into the detention facilities. Callout the synthetic liner requirements and show on the RTank details. In addition, provide buoyancy verification (calculations and/or certification letter). [Plans Sht C-20; Pg 20 of 25]	Liner added with callout. Buoyancy information provided.	Mark Higginson	20
Use abbreviated legal description in title. [Plans C-20; Pg 20 of 25]	Abbreviated legal description added	Mark Higginson	20
Verify - C-21? [Plans C-21; Pg 21 of 25]	Verified	Mark Higginson	21
Use abbreviated legal description in title. [Plans C-21; Pg 21 of 25]	Abbreviated legal description added	Mark Higginson	21
Use impermeable synthetic liner. [Plans C-21; Pg 21 of 25]	Impermeable liner added	Mark Higginson	21
To be verified thru the Civil application. [Plans C-21; Pg 21 of 25]	Acknowledged	Mark Higginson	21
To be verified thru the Civil application. [Plans C-22; Pg 22 of 25]	Acknowledged	Mark Higginson	22
Use impermeable synthetic liner. [Plans C-22; Pg 22 of 25]	Impermeable liner added	Mark Higginson	22
Use abbreviated legal description in title. [Plans C-22; Pg 22 of 25]	Abbreviated legal description added	Mark Higginson	22
Verify - C-23? [Plans C-23; Pg 23 of 25]	Verified	Mark Higginson	23

Use abbreviated legal description in title. [Plans C-23 Pg 23 of 25]	Abbreviated legal description added	Mark Higginson	23
Use abbreviated legal description in title. [Plans C-25 Pg 25 of 25]	Abbreviated legal description added	Mark Higginson	25
Modify site grading plans to address all comments from Engineering regarding critical area buffer preservation and protection. Limits of clearing shall be consistent with all buffer areas and critical area reports - buffer areas cannot be graded under this permit. Please delineate and use protective fencing. Also address the delineation of any existing 100 year floodplain (also commented on by Engineering).	Information added. Buffer and floodplain added and grading removed to show protection area	Chris Beale	
Grading appears to elevate the existing site grade above the adjacent ROW. Please consult PMC 20.58.005 (2) as there are limits on the overall height of all retaining walls near rights of way and abutting properties.	See reduced grading. Phase 1 grades will further reduce grading. No walls are anticipated	Chris Beale	
Provide note that restricts direct construction access to Shaw Rd. Construction access will only be allowed on E Pioneer for the duration of project. Also, please reference Mark Higginson's comments on sheet C-1 regarding track out conditions. [Plans C-2; Page 2 of 25]	Note for construction access provided. Comments addressed for track out.	Bryan Roberts	4
Provide a note on plans that restricts direct construction access to Shaw Rd. Construction access will only be allowed on E Pioneer for the duration of project. [Plans C-4; Page 4 of 25]	Note for construction access provided.	Bryan Roberts	2