Purchasing Division

ADDENDUM NO. 4

DATE: **January 25, 2024**
FROM: **City of Grand Junction Purchasing Division**
TO: **All Offerors**
RE: **Road Reconstruction Yucatan Ct and Summerhill Ct**

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded, and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Question: There appears to be a conflict between Section 3.3.9 and 3.5 on the start/completion date. Please clarify.

Answer: As stated in Section 3.3.9, the start date is flexible but should be no later than May 1, 2024. The final completion date reflected in Section 3.5 shall be removed and shall, instead, be determined by the total calendar days of the contract from the Notice to Proceed.

Invitation For Bids available on	January 5, 2024
Non-Mandatory Pre-Bid Meeting	January 19, 2024 @ 10:00 AM
Pre-Qualification Application Deadline	January 22, 2024
Inquiry deadline, no questions after this date	January 24, 2024, Per Addendum 3
Addendum Posted	January 26, 2024, Per Addendum 3
Submittal deadline for proposals	January 31, 2024 @ 1:00 PM
City Council Approval	February 21, 2024
Notice of Award & Contract Execution	February 22, 2024
Bonding & Insurance Cert due	March 1, 2024
Notice to Proceed	March 2, 2024
Pre-construction meeting	March 4, 2024
Final Completion	60 Calendar Days from Receipt of Notice to Proceed

2. Question: After further analysis of the contract requirements, we would request that the time frame for project completion be extended 30 days for a total of 90 calendar days. The rationale behind this request is for the concrete demolition and replacement to be completed prior to demolition and replacement of the asphalt roadway. Since this is a residential area, there will be heightened awareness of access to the various driveways and side streets. To help facilitate this need and reduce the possibility of multiple areas of construction occurring concurrently, it would be helpful to allow for additional time.

Answer: The City has considered this request and will extend the calendar days of the Contract to 90 days. However, the Contractor should be aware that the City's Chip Seal Program plans to be working on adjacent streets starting in June, including on the remaining

section of Summer Hill Court. A milestone completion date of June 1, 2024, shall be added for the work on Summer Hill Court.

3. **Question:** When is Spring Clean-up?
   Answer: The City's annual Spring Clean-Up program is scheduled to pick up waste in the project area the week of April 1-5. 2024. The contractor should be advised that residents will be allowed to place waste in the gutter and/or near the street starting the week prior to pick up. Any work as part of this reconstruction project shall coordinate with the City and/or residents to accommodate waste pick up for the annual clean-up program and on-going weekly trash service.

4. **Question:** Has the existing neighborhood been notified of the Project and aware of construction impacts?
   Answer: The communications with the property owners to date have been limited to their requests for improvements. The City has not provided any information on the construction impacts or timing of the construction yet. It is the intent of the City to send out newsletters and other communications to the homeowners once a contractor is selected and a firm construction schedule has been established. It will be the responsibility of the Contractor to distribute door hangers and coordinate with individual property owners on impacts to access.

5. **Question:** Cretex provides a manhole grade ring riser, has a 25-year warranty, 100 life expectancy, lightweight, easier and safer to install for the crew members and saves in labor and equipment costs. We are looking to get The Cretex Pro-Ring approved for this project AND approved in the standard specs for The City of Grand Junction.
   Answer: The Cretex PRO-RING will be accepted as an alternate manhole grade ring product for adjustment of manholes to finished grade on this project. Further evaluation will be completed to determine if appropriate to include as an approved product in the City's Standard Specifications for all projects.

6. **Question:** Could a flagging bid item be added to the bid sheet?
   Answer: No. All flagging costs necessary for this Project shall be paid for as part of the Lump Sum payment for Traffic Control (Complete in Place).

6. **Additional Information:** Stormwater Management Plan (SWMP) sheets necessary to obtain a stormwater permit are provided with this addendum and the respective bid items in Section 208 have been added to the attached Revised Bid Schedule.

The original solicitation for the project noted above is amended as noted. All other conditions of the subject remain the same.

Respectfully,

Dolly Daniels

Dolly Daniels, Senior Buyer
City of Grand Junction, Colorado

Bid Schedule: Neighborhood Reconstruction (Yucatan and Summer Hill)
Addendum No. 4

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	202	Remove Asphalt Mat Full Depth.	5,650.	SY	$ _____	$ _____
2	202	Remove Concrete	790.	SY	$ _____	$ _____
3	208	Concrete Washout Structure (Type 1)	1.	EA	$ _____	$ _____
4	208	Storm Drain Inlet Protection	9.	EA	$ _____	$ _____
5	208	Vehicle Tracking Control Pad	3.	EA	$ _____	$ _____
6	208	Erosion Control Management	90.	Day	$ _____	$ _____
3	210	Adjust Water Valve to Finished Grade	7.	EA	$ _____	$ _____
4	210	Adjust Manhole to Finished Grade	11.	EA	$ _____	$ _____
5	210	Reference/Reset Survey Monument	1.	EA	$ _____	$ _____
6	210	Yard Restoration (includes any and all work and materials needed to restore yards and irrigation systems to preconstruction condition)	1.	LS	$ _____	$ _____
7	203	Unclassified Excavation	1,709.	CY	$ _____	$ _____
8	203	Unclassified Embankment	227.	CY	$ _____	$ _____
9	203	Haul Earthwork Material	1,448.	CY	$ _____	$ _____
10	304	6" Recondition Existing Base Course	450.	SY	$ _____	$ _____
11	420	Mirafi RS580i or engineer approved equal Geotextile Fabric	5,200.	SY	$ _____	$ _____
12	304	Aggregate Base Course (Class 6) (12" Thick)	5,200.	SY	$ _____	$ _____
13	401	Hot Mix Asphalt (Varies) (Grading SX 75, Binder Grade 64-22)	1,225.	TON	$ _____	$ _____
14	608	Modified Concrete Drive Over Curb and Gutter Driveway 2.5' wide to include Class 6 Aggregate Base Course per Typical Cross Section	20.	LF	$ _____	$ _____

Bid Schedule: Neighborhood Reconstruction (Yucatan and Summer Hill)
Addendum No. 4

Item No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
15	608	Modified Concrete Drive Over Curb and Gutter 2.5' wide to include Class 6 Aggregate Base Course per Typical Cross Section	165.	LF	$ _____	$ _____
16	608	Concrete Drive Over Curb, Gutter, and Sidewalk 6.5' wide to include Class 6 Aggregate Base Course per Typical Cross Section	935.	LF	$ _____	$ _____
17	608	Concrete Intersection Corner (8" thick) to include 8" thick Class 6 Aggregate Base Course	40.	SY	$ _____	$ _____
18	620	Sanitary Facility	2.	EA	$ _____	$ _____
19	625	Construction Surveying (includes as-builts)	Lump	SUM	- - -	$ _____
20	626	Mobilization	Lump	SUM	- - -	$ _____
21	630	Traffic Control (Complete In Place)	Lump	SUM	- - -	$ _____
MCR		Minor Contract Revisions	- - -	- - -	- - -	$ 30,000.00

Bid Amount: **$** _____

Bid Amount:

_____ **dollars**

YUCATAN AND SUMMERHILL CT – SWMP UPDATED 01/17/2024

1. SITE DESCRIPTION

The Contractor shall comply with all CDOT contractual requirements, and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

A. PROJECT SITE LOCATION:
East and West Yucatan Court. Yucatan Court can be accessed off Lanai Dr. Lanai Dr. is approximately a tenth of a mile west of the intersection of 27 Rd and H Rd. The intersection of Lanai Dr. and Yucatan is approximately a half mile north of H Rd.
Summer Hill Court. Summer Hill Court can be accessed off Summer Hill Way. The intersection of 26 ½ Road and Summer Hill Way is approximately a half mile north of the intersection of 26 ½ Road and H Road. Summer Hill Court is approximately a half mile east of the intersection of 26 ½ Road and Summer Hill Way along Summer Hill Way.
See Project Cover Sheet of Vicinity Map.

B. PROJECT SITE DESCRIPTION:
Replace portions of the street and outside curb, gutter, and walk along Yucatan and Summer Hill Court so as to correct drainage problems, drivability problems, and pedestrian safety issues. This is a City of Grand Junction Contract Street Maintenance funded project which includes unclassified excavation, aggregate base course, hot mix asphalt, curb, gutter, and sidewalk.

C. PROPOSED SCHEDULE FOR SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES:
The project will begin with installation of vehicle tracking pads, concrete wash out structures, and storm drain inlet protection devices to prevent sediment from construction activities exiting the site. The project will proceed with asphalt-concrete removals, site grading, curb, gutter, & walk replacement, roadway paving, and minor restoration of landscaping to adjacent properties as needed.

D. ACRES OF DISTURBANCE:
1. Total area of proposed disturbance is 3415 sf Summer Hill Ct plus 52,685 sf Yucatan Ct for a total of 56,100 sf or 1.29 acres
2. Total area of pre-project impervious surface: 56100 sq ft.
5. Total area of final impervious surface: 56100 sq. ft.

E. EXISTING SOIL DATA: Killpack Silty Clay, 2 to 5 percent slopes. Parent Material: Residuum weathered from clayey shale. Runoff class is: Medium. Depth to water table: More than 80 inches. Hydrologic Soil Group: C.

F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER: Existing vegetation consists of maintained landscaping by property owners adjacent to the project. Existing vegetation consists of sod, trees, shrubs, perennials, and inorganic mulch. The intention is that there is little if any disturbance to Existing Vegetation and that if Vegetation is disturbed during construction that it be replaced in kind upon completion of adjacent improvements.

G. POTENTIAL POLLUTANTS SOURCES:
Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

H. DRAINAGE PATTERNS AND RECEIVING WATER(S):

1. Outfall locations: The owner of the existing storm pipes that are underneath and crossing E Yucatan Ct., Lanai Dr., Summer Hill, and Spring Crossing are owned and maintained by the City of Grand Junction. All storm drain piping that's part of this project conveys storm water to a centralized point and discharges the storm water into an existing drainage channel (Leach Creek) where the storm water is then conveyed and discharged into the Colorado River some 5 miles southwest. This project is located within MS4 boundaries. This project does not increase the impervious area of the site.

2. Names of receiving water(s) on site and the ultimate receiving water: Leach Creek and the Colorado River as the ultimate receiving waters.

3. Distance ultimate receiving water is from project: 5 Miles

4. There are no stream crossings located within the Construction Site Boundary

I. ALLOWABLE NON-STORMWATER DISCHARGES:

Discharge Description	Site Map #	Method Statement (Location)
Uncontaminated Springs		
Concrete Washout Water (in-ground washout structure) #	See Site Map	A Concrete Washout Structure shall be provided by the contractor
Landscape Irrigation Return Flows		
Discharges from Diversions of State Waters		
Emergency Fire Fighting		

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DESCRIPTION	DATE
REVISION 1 REV 1	– DATE
REVISION 2 REV 2	– DATE
REVISION 3 REV 3	– DATE
REVISION 4 REV 4	– DATE

DRAWN BY JCS DATE 2023
DESIGNED BY JCS DATE 2023
CHECKED BY ER DATE 2023
APPROVED BY KH DATE 2023

NO SCALE

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. F0001

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SWMP – 01 NOTES
January 17, 2024

#Concrete washout water associated with the washing of concrete tools and concrete mixer chutes can be discharged to the ground if site is managed accordingly to prevent the water from leaving the site as surface runoff or reaching receiving waters.

J. DIVERSION CRITERIA:
1. Is a diversion planned for the Site? Yes _____ No X
2. If yes, complete information below:
   a. What is the 2-year peak flow for the waterway being diverted (cubic feet per second)?
   b. What are the monthly averages if available? (provide averages for Jan- Dec if available)
   c. What is the upstream contributing drainage area and imperviousness?
   d. A method statement must be prepared by the Contractor and approved by CDOT for each diversion. Diversion structures must minimize soil transport and erosion within the entire diversion, minimize erosion during discharge, and minimize run-on into the diversion and meet the conditions in the SCP.
   e. If the conditions in the SCP cannot be met and an alternative is required, CDOT must approve the alternative and then it must be submitted and approved by CDPHE's Water Quality Control Division prior to implementation.

K. ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:
[If applicable, provide a description of the alternative temporary stabilization schedule. If temporary stabilization exceeds the 14-day schedule, then the SWMP must document the constraints necessitating the alternative schedule, provide the alternative
schedule, and identify all the locations where the alternative schedule is applicable on the site map.
Alternative temporary stabilization schedules must be approved by CDOT prior to implementation]

2. SITE MAP COMPONENTS:

Pre-construction

A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES:
See Storm Water Management Site Plan (Limits of Disturbed Area)

B. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF DIRECTION:
See Storm Water Management Site Plan

C. ALL AREAS OF GROUND SURFACE DISTURBANCE:
See Storm Water Management Site Plan

D. AREAS OF CUT AND FILL:
See Storm Water Management Site Plan and Cross Sections

E. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and LOCATIONS OF ALL WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS:
See Storm Water Management Site Plan

F. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP:
See Storm Water Management Site Plan

3. QUALIFIED STORMWATER MANAGERS:

A. SWMP ADMINISTRATOR FOR DESIGN:
CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

Name/Title	Contact Information [phone & email]	Certification #
Kenneth Haley	970-244-1543 kennethh@gjcity.org	

B. SWMP ADMINISTRATOR FOR CONSTRUCTION: (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of TECS Certification must be included in the SWMP.)

Name/Title	Contact Information (phone & email)	Certification #	Start Date	Engineer Approval

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C. EROSION CONTROL INSPECTOR: (As defined in Section 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP.)

Name/Title	Contact Information (phone & email)	TECS Certification #	Start Date	Engineer Approval

D. PERMANENT STABILIZATION SUBJECT MATTER EXPERT: This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements.

1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
2. Attend the Environmental Pre-Construction Conference.
3. Coordinate the Site Pre-Vegetation Conference.
4. Review and recommend approval of products.
5. Review and recommend approval of the Quantities Verification Prerequisite.
6. Attend the Partial Landscape Completion Walkthrough.
7. Attend the Final Landscape Completion Walkthrough.

Name/Title	Contact Information [phone & email]

4. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. POTENTIAL POLLUTANT SOURCES:
Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.
Pollutant Sources include:

- Sediment from ground disturbance
- Vehicle tracking of sediments.
- Liquid and solid construction waste, paints, solvents, adhesives, concrete washout water, asphalt waste, and any other material that could conceivably be dissolved in or carried by stormwater.
- Loading and unloading operations
- Vehicle and equipment maintenance and fueling
- Significant dust or particulate generating processes.
- Non-industrial waste sources such as worker trash and portable toilets

B. OFFSITE DRAINAGE (RUN ON WATER):
Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.

C. VEHICLE TRACKING CONTROL:
Control measures shall be implemented in accordance with subsection 208.04.

D. PERIMETER CONTROL:
1. Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters. Perimeter control shall be in accordance with subsection 208.04
2. Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION: Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, SWMP Administrator for Construction shall add, update, or amend the items A-G below as needed in accordance with subsection 208.03.
During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

A. MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN: Prior to construction commencing the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06.

B. OTHER CDPS PERMITS: List applicable CDPS permits associated with the permitted site and activities.

C. STOCKPILE MANAGEMENT: Shall be done in accordance with subsections 107.25 and 208.07.

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D. CONCRETE WASHOUT: Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

E. SAW CUTTING: Shall be done in accordance with subsections 107.25, 208.04, 208.05

F. STREET SWEEPING: Shall be done in accordance with subsection 208.04.

6. INSPECTIONS

A. Water Quality Inspections shall be in accordance with subsection 208.03(c).

B. Permanent Stabilization Inspections shall be in accordance with subsections 208.04(e)4 and 208.10.

7. CONTROL MEASURE MAINTENANCE

Maintenance shall be in accordance with subsection 208.04(f).

8. RECORD KEEPING

Records shall be kept in accordance with subsection 208.03(d).

9. INTERIM, PERMANENT STABILIZATION and LONG-TERM STORMWATER MANAGEMENT

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

A. SEEDING PLAN:
Seeding will not be required.

B. SEEDING APPLICATION METHOD:
NA

C. MULCHING APPLICATION:
NA

D. SOIL STABILIZATION METHODS:
NA

E. SPECIAL REQUIREMENTS:
NA

F. SOIL AMENDMENT REQUIREMENTS: NA

G. Permanent Stabilization Application Under Structures:
NA

H. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:
NA

I. LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES: Is Permanent Water Quality Required. Yes_____No___X___.

10. PRIOR TO PROJECT FINAL ACCEPTANCE

A. When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.

B. Refer to subsection 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.____

11. NARRATIVES

Control Measure Matrixes During Construction:

1. Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be add to the SWMP. The appropriate "X" shall also be added to the implementation phase(s).
2. The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.

Template Revised: 2.25.2022

DESCRIPTION	DATE
REVISION 1 REV 1	DATE
REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
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DRAWN BY JCS DATE 2023
DESIGNED BY JCS DATE 2023
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NO SCALE

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. F0001

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3. A "B" in the Initial Activities Column indicates that the control measure shall be installed **before** construction activity starts. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to the following:

APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
PROTECTION OF EXISTING WETLANDS *Fence (plastic) and erosion logs*	Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas.					
PROTECTION OF EXISTING TREES/LANDSCAPING *Fence (plastic)*	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of sensitive habitat, mature trees and/or existing landscaping prior to start of construction disturbances.					
CHECK DAM/DITCH CHECK *Erosion log, silt berm, silt dike, rock check dam*	Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.	M-208				
Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)	Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	M-208		X	X	
Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)	Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.	M-208				
CULVERT INLET/OUTLET PROTECTION *Erosion logs, aggregate bags*	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to the start of construction disturbances.	M-208				
TYPE C, TYPE D AND TYPE 13 PROTECTION *Erosion logs, aggregate bags, erosion bales*	Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to the start of construction disturbances.	M-208				
STOCKPILE PROTECTION *Temporary berm, erosion logs, aggregate bags**	Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpiling, increase control as the stockpile increases size.	M-208				
TOE OF FILL PROTECTION *Erosion logs, temporary berm, silt fence, topsoil windrow**	Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.	M-208				
PERIMETER CONTROL *Erosion logs, silt fence, temporary berm, topsoil windrow**	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.	M-208				
SLOPE CONTROL *Silt fence, erosion logs*	Placed on the contour of a slope to contain and slow down construction runoff. Place prior to the start of construction disturbances.	M-208				
TEMPORARY SEDIMENT TRAP	Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to the start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.	M-208				
TEMPORARY SLOPE DRAIN	Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.	M-208				
OUTLET PROTECTION *Riprap, or approved other*	Material placed as an energy dissipater to prevent erosion at outlet structure.	M-601-12				
CONCRETE WASHOUT *In-ground or fabricated*	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to the start of concrete activities.	M-208		X	X	
VEHICLE TRACKING PAD	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to the start of construction disturbances.	M-208		X	X	
Engineered SEDIMENT BASIN	Constructed early in the project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible					

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APPLICATION, CONTROL MEASURE	NARRATIVE	M- 208 STANDARD or "X" for NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITIES	INTERIM ACTIVITIES	PERMANENT STABILIZATION
DEWATERING *(Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.)*	Shall be done in such a manner to prevent potential pollutants from entering state waters.					
TEMPORARY STREAM CROSSING	Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.					
CLEAN WATER DIVERSION	Placed to divert clean surface or groundwater around the disturbance area to prevent it from mixing with construction runoff.					
OTHER						

NON-STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:
Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

* **Use of vegetative buffer strip requirements.** The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity – CDPS Permit No. COR4000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a "finishing" component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: **https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf**

APPLICATION, CONTROL MEASURE	NARRATIVE	M-STANDARD or "For NON-STANDARD	IN USE ON SITE	CONTROL MEASURE IMPLEMENTATION PHASE		
				INITIAL ACTIVITY	INTERIM ACTIVITIES	PERMANENT STABILIZATION
** VEGETATIVE BUFFER STRIP*	Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.					
GRADING APPLICATIONS (LANDFORM)	Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting.	M-208				
TOPSOIL MANAGEMENT STOCKPILE/SALVAGE Stockpile	Prior to any site disturbance work commencing, existing topsoil shall be scraped to a depth six inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of six inches or as specified.	M-208				
SURFACE ROUGHENING / GRADING TECHNIQUES	Temporary stabilization of disturbance and to minimize wind and erosion.					
SEEDING (TEMPORARY)	Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.					
BONDED FIBER MATRIX or MULCHING (HYDRAULIC)	Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.					
Straw or Hay MULCH/MULCH TACKIFIER	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer					

Template Revised: 2.25.2022

SPRAY-ON MULCH BLANKET (Not to be used in areas of concentrated flows, i.e. ditch lines.)	Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer					
SEEDING PERMANENT (NATIVE PERENNIAL)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.					
SOIL RETENTION BLANKET (SRB)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.	M-216				
TURF REINFORCEMENT MAT (TRM)	Permanent Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.	M-216				
Sweeping	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.				**X**	
OTHER						

Template Revised: 2.25.2022

DESCRIPTION	DATE
REVISION 1 REV 1	– DATE
REVISION 2 REV 2	– DATE
REVISION 3 REV 3	– DATE
REVISION 4 REV 4	– DATE

DRAWN BY JCS DATE 2023
DESIGNED BY JCS DATE 2023
CHECKED BY ER DATE 2023
APPROVED BY KH DATE 2023

NO SCALE

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. F0001

YUCATAN & SUMMER HILL CT
SWMP – 07 NOTES
January 17, 2024

12. TABULATION OF STORMWATER QUANTITIES

A. All removal of sediment, sweeping, and other control measure maintenance shall be included in the cost of the control measure.

B. Erosion Control Management shall be paid for by the day and shall include all stormwater inspections, documentation, and management of the SWMP during construction.

PSP Spec.	Pay Item	Description	Pay Unit	Initial Const.	Interim Const.	Permanent Stabilization	*Total Quantity
	208-00046	Pre-fabricated Concrete Washout Structure (Type 1)	Each	1			
	208-00054	Storm Drain Inlet Protection (Type II)	Each	9			
	208-00075	Pre-fabricated Vehicle Tracking Pad	Each	3			
	208-00207	Erosion Control Management (ECM)	Day	90			

*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. **Quantities for all control measures shown above are estimated and have been increased for unforeseen conditions and normal control measure life expectancy.** Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

13. BIOLOGICAL IMPACTS and DEWATERING

A. ENVIRONMENTAL IMPACTS:

1. Wetland Impacts: **NO**

2. Stream Impacts: **NO**

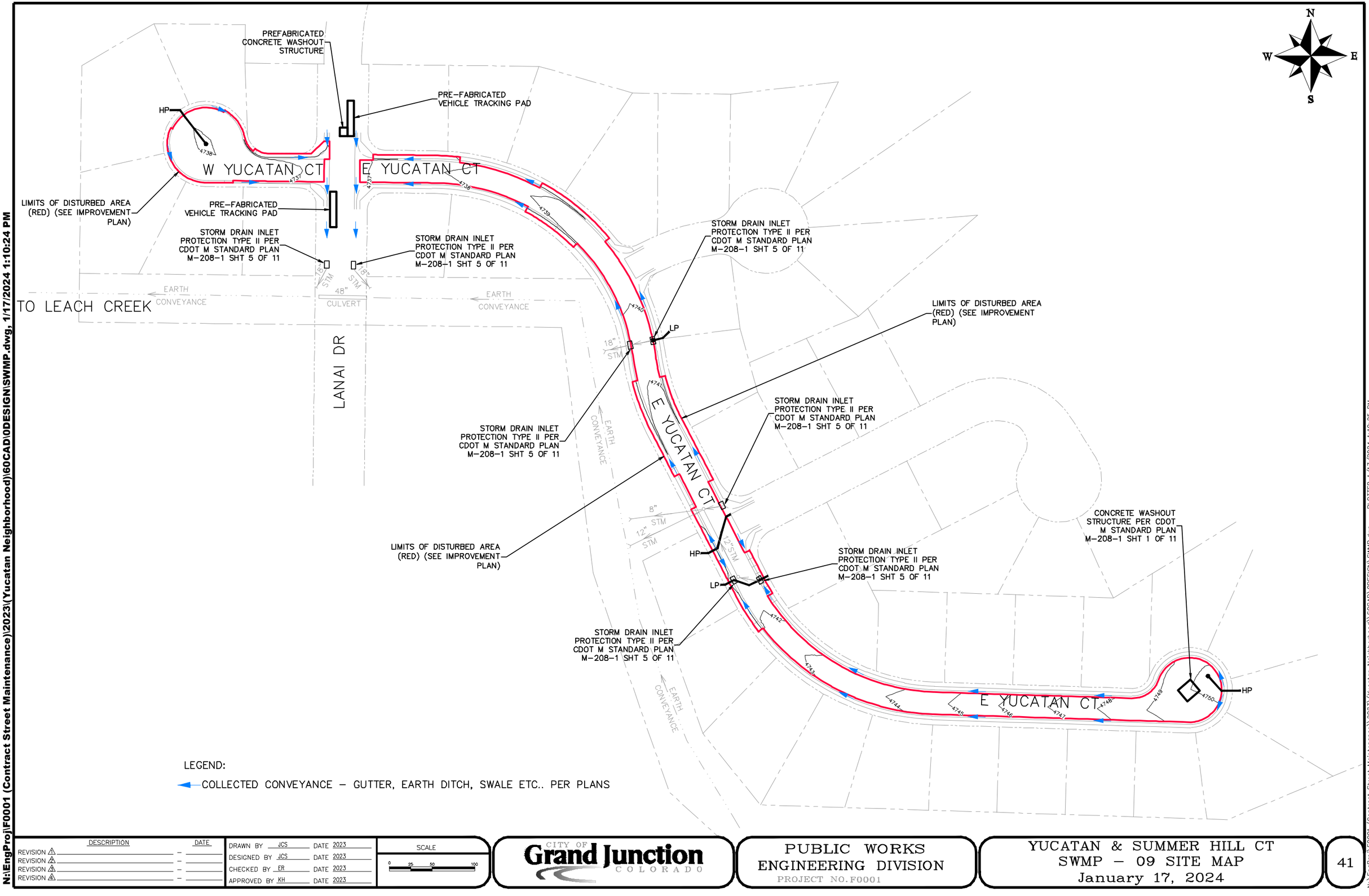
3. Threatened and Endangered Species: No species are anticipated to be impacted by the project.

B. DEWATERING:

(Not covered under the CDPHE guidance document Low Risk Discharge Guidance Discharges of Uncontaminated Groundwater to Land):
https://www.colorado.gov/pacific/sites/default/files/WQ%20LOW%20RISK%20GW.pdf

1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.
2. If groundwater does not meet water quality standards for receiving water a separate CDPS Dewatering Permit shall be obtained by the Contractor from CDPHE in accordance with subsections 107.02 and 107.25.

14. NOTES



LEGEND:

COLLECTED CONVEYANCE – GUTTER, EARTH DITCH, SWALE ETC.. PER PLANS

DESCRIPTION	DATE
REVISION 1	–
REVISION 2	–
REVISION 3	–
REVISION 4	–

DRAWN BY	JCS	DATE	2023
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APPROVED BY	KH	DATE	2023

SCALE 0 25 50 100

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. F0001

YUCATAN & SUMMER HILL CT
SWMP – 09 SITE MAP
January 17, 2024

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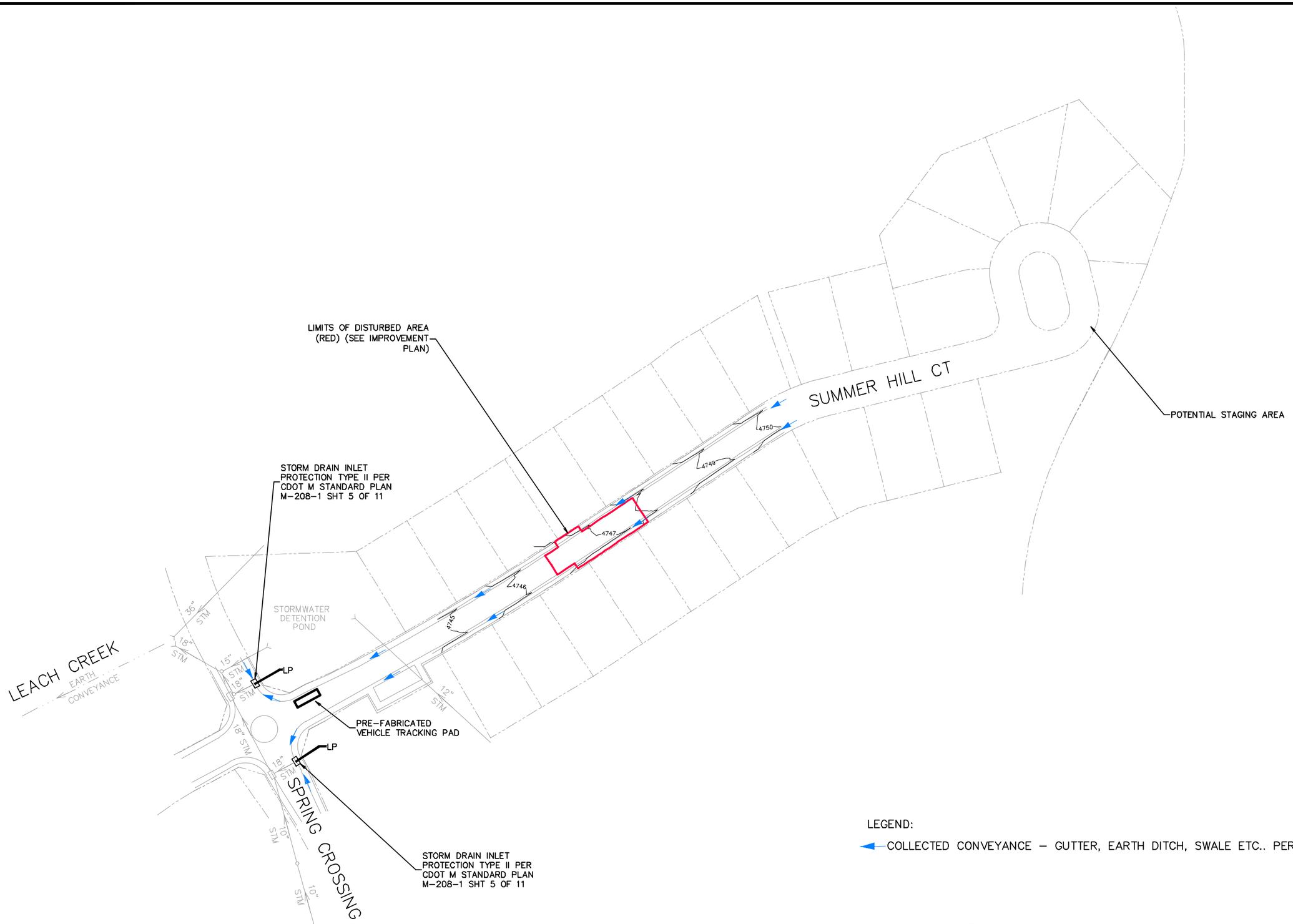

DESCRIPTION	DATE
REVISION 1	
REVISION 2	
REVISION 3	
REVISION 4	

DRAWN BY	JCS	DATE	2023
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SCALE: 0 25 50 100

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. F0001

YUCATAN & SUMMER HILL CT
SWMP – 10 SITE MAP
January 17, 2024

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