LETTER OF INTENT

Date: July 21, 2020

Company: SGM

Project: Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road RFP-4802-20-DH

Based upon review of the proposals received, and interviews held, for Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road RFP-4802-20-DH, your firm has been selected as the preferred proposer.

Your pricing proposal is currently being reviewed, if it is determined that pricing negotiations are needed, we will reach out to you to do so. Otherwise, it is the intent of the City of Grand Junction to award the aforementioned project to your firm as is listed in the RFP documents, your proposal response, and negotiated terms (if required).

The award for the project must be approved by City Council prior to an official award and contract issued.

Once the contract has been awarded, you may contact Kirsten Armbruster, Project Engineer at 970-244-1421 to begin project scheduling.

Feel free to contact me with any questions at 970-244-1545.

Thank you and Best Regards

Duane Hoff Jr., Senior Buyer

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CITY OF GRAND JUNCTION, COLORADO

****

CONTRACT

This CONTRACT made and entered into this 30th day of July, 2020 by and between the **City of Grand Junction, Colorado,** a government entity in the County of Mesa, State of Colorado, hereinafter in the Contract Documents referred to as the "Owner" and **Schmueser Gordon Meyer, Inc. (SGM)** hereinafter in the Contract Documents referred to as the "Firm."

WITNESSETH:

WHEREAS, the Owner advertised that sealed Responses would be received for furnishing all labor, services, supplies, equipment, materials, and everything necessary and required for the Project described by the Contract Documents and known as **Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road RFP-4802-20-DH**.

WHEREAS, the Contract has been awarded to the above named Firm by the Owner, and said Firm is now ready, willing and able to perform the Services specified in the Notice of Award, in accordance with the Contract Documents;

NOW, THEREFORE, in consideration of the compensation to be paid the Firm, the mutual covenants hereinafter set forth and subject to the terms hereinafter stated, it is mutually covenanted and agreed as follows:

ARTICLE 1

Contract Documents: It is agreed by the parties hereto that the following list of instruments, drawings, and documents which are attached hereto, bound herewith, or incorporated herein by reference constitute and shall be referred to either as the "Contract Documents" or the "Contract", and all of said instruments, drawings, and documents taken together as a whole constitute the Contract between the parties hereto, and they are fully a part of this agreement as if they were set out verbatim and in full herein:

The order of contract document governance shall be as follows:

a. The body of this contract agreement;
b. Negotiated Pricing/Scope of Work;.
c. Solicitation Documents for the Project; **Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road;**

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d. Firms Response to the Solicitation, including Pricing Proposal Responses;
e. Services Change Requests (directing that changed Services be performed);
f. Change Orders.

ARTICLE 2

Definitions: The clauses provided in the Solicitation apply to the terms used in the Contract and all the Contract Documents.

ARTICLE 3

Contract Services: The Firm agrees to furnish all labor, tools, supplies, equipment, materials, and all that is necessary and required to complete the tasks associated with the Services described, set forth, shown, and included in the Contract Documents as indicated in the Solicitation Document.

ARTICLE 4

Contract Price and Payment Procedures: The Firm shall accept as full and complete compensation for the performance and completion of all of the Services specified in the Contract Documents, the not to exceed pricing of **One Hundred Ninety Nine Thousand Five Hundred Eight and 00/100 Dollars ($199,508.00). This not to exceed pricing consists of $97,683.00 for the G Road Bridge portion of the project, and $101,825.00 for the 24 Road Bike Path Bridge and Underpass portion of the project.** If this Contract contains unit price pay items, the Contract Price shall be adjusted in accordance with the actual quantities of items completed and accepted by the Owner at the unit prices quoted in the Solicitation Response. The amount of the Contract Price is and has heretofore been appropriated by the Grand Junction City Council for the use and benefit of this Project. The Contract Price shall not be modified except by Change Order or other written directive of the Owner. The Owner shall not issue a Change Order or other written directive which requires additional Services to be performed, which Services causes the aggregate amount payable under this Contract to exceed the amount appropriated for this Project, unless and until the Owner provides Firm written assurance that lawful appropriations to cover the costs of the additional Services have been made.

Unless otherwise provided in the Solicitation, monthly partial payments shall be made as the Services progresses. Applications for partial and Final Payment shall be prepared by the Firm and approved by the Owner in accordance with the Solicitation.

ARTICLE 5

Contract Binding: The Owner and the Firm each binds itself, its partners, successors, assigns and legal representatives to the other party hereto in respect to all covenants, agreements and obligations contained in the Contract Documents. The Contract Documents constitute the entire agreement between the Owner and Firm and may only be altered, amended or repealed by a duly executed written instrument. Neither the Owner nor the Firm shall, without the prior written consent of the other, assign or sublet in whole or in part its interest under any of the Contract Documents and specifically, the Firm shall

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not assign any moneys due or to become due without the prior written consent of the Owner.

ARTICLE 6

Severability: If any part, portion or provision of the Contract shall be found or declared null, void or unenforceable for any reason whatsoever by any court of competent jurisdiction or any governmental agency having the authority thereover, only such part, portion or provision shall be effected thereby and all other parts, portions and provisions of the Contract shall remain in full force and effect.

IN WITNESS WHEREOF, City of Grand Junction, Colorado, has caused this Contract to be subscribed and sealed and attested in its behalf; and the Firm has signed this Contract the day and the year first mentioned herein.

The Contract is executed in two counterparts.

CITY OF GRAND JUNCTION, COLORADO

DocuSigned by:

By: Duane Hoff Jr., Senior Buyer - City of Grand Junction 7/30/2020 | 14:50 MDT

Duane Hoff Jr., Senior Buyer - City of Grand Junction Sr. Buyer Date

SGM

DocuSigned by:

By: John Boulden, Principal-in-Charge, SGM, Inc. 7/30/2020 | 14:49 MDT

John Boulden, Principal-in-Charge, SGM Office Manager Date

CITY OF Grand Junction COLORADO

Proposal

Professional Engineering Services
for
Leach Creek Bridge at 24 Road & G Road

July 2, 2020

SGM

July 2, 2020

Duane Hoff, Jr., *Senior Buyer*
City of Grand Junction
Purchasing Division
250 North 5th Street
Grand Junction, Colorado 81501
duaneh@gjcity.org

RE: Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road - RFP-4802-20-DH

Dear Mr. Hoff and Selection Committee:

Thank you for the opportunity to submit our qualifications for the N. Leach Creek Bridge at 24 Road & G Road Project. SGM specializes in assisting our municipal clients in planning, designing, optimizing, and maintaining community infrastructure. For this project we have developed a project team with local roots, depth of experience in the Grand Valley and fresh informed perspectives on developing cost-effective bridges and underpasses. We have put together this engineering services proposal that demonstrates how we will work in partnership with you to provide an efficient design process to bring this project to construction bid readiness in Fall of 2020.

You will find that we have assembled a team of specialized professionals with subject matter expertise in areas most important to the City of Grand Junction (City). The SGM team delivers:

- **Entrenched municipal experience.** SGM brings unparalleled municipal experience in *all* aspects of engineering and design, as well as design review under one roof that will be invaluable to timely responses and communications between the City and key stakeholders.
- **Thorough and comprehensive design.** The SGM team has budgeted the necessary time to undertake research into bridge alternatives, address the SUE law, develop hydraulically efficient crossings, review and coordinate with CDOT and the City, as well as Quality Control and Quality Assurance.
- **Dedication to the City's success.** SGM has a trusted reputation throughout the community. Our highest priority is ensuring that the design, as well as the process used to develop it, exceeds the expectations of both the City and the community at large.



SGM anticipates reviewing our proposed scope of work with you before we begin so that other refinements to the scope and fee estimate can be considered.

SGM acknowledges, and accepts Addendums #1, #2, and #3. SGM accepts all conditions and requirements in the RFP. We do not take any exceptions per Section 2.1 of the RFP. Our insurance carrier can provide an Acord Certificate of Insurance for SGM immediately upon request for compliance with Section 3 of the RFP.

We are deeply rooted in Grand Junction where we live, work, and play. We are eager to assist the City with this project. If you have any questions or concerns, please do not hesitate to contact me at 970.946.1439 / johnb@sgm-inc.com, or Eric at 970.245.2571 / erick@sgm-inc.com. I look forward to hearing from you soon so that we can move this project forward. We look forward to your response and the opportunity to demonstrate our skills and abilities to complete this work.

Sincerely,
SGM

John Boulden, PE
Principal-in-Charge

Eric L. Krch, PE, CFM
Project Manager\Senior Engineer

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Submitted Separately

Introduction

The City of Grand Junction (City) is undertaking one of the first transportation capacity upgrade projects authorized by Ballot Initiative 2A, approved by voters in 2019. The City has multiple plans for implementing these transportation capacity upgrades throughout the City - including the busy 24 Road corridor. A proposed roundabout intersection with G Road, and new off-street bicycle facilities along 24 Road, makes this project an important part of the City's overall transportation plan.

SGM understands **the City of Grand Junction** is looking for a project partner that can complement the City's Engineering team with technical expertise to perform the necessary design engineering and environmental permitting for the proposed G Road structure over N. Leach Creek, a bike path underpass crossing structure under G Road and a bike path bridge over Leach Creek.

SGM has assembled an in-house, one-stop team of experienced professionals to provide the City with the expertise, knowledge, motivation, and time required to meet the objectives identified in the Request for Proposal. SGM can provide hydraulic engineering; structural design for bridges, box culverts and retaining walls; Subsurface Utility Engineering (SUE); wetlands delineation; and US Army Corps of Engineering permitting. This makes our overall design team compact, efficient, and economical while still providing the complete scope of services for this project.



The SGM Team has worked together on many similar projects and offers:

- ☑ ***Specific Experience*** – The key personnel committed to this project clearly understand how roadway and recreation trail projects are designed and constructed, especially when challenged by unique site constraints. Our lead structural engineer, Mike Fowler, assisted the City's Engineering team in this same role in 2010-2012 for the design of the D½ and D Road bridges over Lewis Wash.
- ☑ ***Accessibility*** – Our project team will provide the required project management and design from the SGM office in Grand Junction and draw from our technical staff in our Glenwood Springs office.
- ☑ ***Specialization*** – SGM is one of the few engineering consulting firms to offer our own, in-house Subsurface Utility Engineering team. Our SUE team can locate and designate underground utilities on a project site in accordance with Colorado State Law (CRS 2018, Title 9, Article 1.5) as it relates to ASCE 38. In addition, our Environmental Team can handle most environmental assessments and studies, which makes SGM truly a one-stop-shop second to none.



In short, SGM stands out as the preferred firm located on the Western Slope by offering a strong understanding of the unique challenges associated with transportation projects, and the proven bridge expertise required for this project. SGM views a client like the City of Grand Junction as the long-term core of our business, not merely as an opportunity for a project-specific submission. We predominately focus on delivering quality services to our public clients on the Western Slope and are **committed to them now *and* in the future**.

Qualifications

Firm Profile

SGM, an employee-owned, multidisciplinary engineering, surveying, and consulting firm, was founded in 1986. For over 30 years, **SGM** employees have lived and raised families in the Western Slope communities they have helped build. **SGM**'s services are delivered with unparalleled authenticity and pride with attention to quality and detail. As a result of SGM's **commitment to quality service *and* long-term client relationships**, **SGM** has grown to over 100 employees – the largest full-service engineering, consulting, and surveying firm in Western Colorado. In addition to our headquarters in Glenwood Springs, **SGM** also has offices in Grand Junction, Gunnison, Salida, Aspen, Meeker, and Durango to provide local and timely service to our clients.

The core of our business has always been municipal clients. As we've grown, we have become more diversified so that we can better serve our clients. We now offer expertise in the following areas:

- *Structural Engineering including Buildings, Bridges, Tanks and Retaining Walls*
- *Water Resource Engineering & Planning including Hydrology and Hydraulics*
- *Transportation including Streets, Trails and Traffic (PTOE on staff)*
- *Municipal Sewer Collection, Treatment and Discharge Permitting*
- *Municipal Water Supply, Treatment, Conveyance, and Storage*
- *Municipal Public Works*
- *Floodplain Management*
- *Stormwater and Drainage*
- *Environmental Consulting (wetlands and biological studies)*
- *Land Surveying*
- *GIS Mapping*
- *Subsurface Utility Engineering & Utility Coordination*
- *Construction Inspection and Administration*
- *Mechanical, Electrical & Plumbing Engineering and Commissioning*



SGM is currently recognized by the Colorado Department of Transportation (CDOT) as a "Pre-Qualified Consultant" in the following disciplines.

BR	**Bridge Design**	**HY**	**Hydraulics**
BI	Bridge Inspection	ME	Mechanical Engineering
CE	Civil Engineering	SA	Sanitary Engineering
EL	Electrical Engineering	SE	Structural Engineering
MA	Engineering Management (Contract Admin)	SU	Surveying
MC	Engineering Management (Construction)	TP	Transportation Engineering
EN	Environmental Engineering	TR	Traffic Engineering
HD	**Highways and Street Design**		

Relevant Experience – Roadway Structures

SGM has a history of delivering successful bridge projects throughout the Western Slope of Colorado. As you will see in the table below, and the highlighted projects on the following pages, our experience covers a wide variety of structure types and sizes. The key hydraulics and structural personnel we are committing to this project have worked on well over 200 bridge projects over their combined careers ranging from minor canal crossings to major bridges over the Colorado River.

Project Name	Owner	Bridge / Structural Design	Environmental Studies	404 Permitting	Hydrology / Hydraulics	CDOT Local Agency
D½ Road over Lewis Wash	Mesa County	•				
D Road over Lewis Wash	Mesa County	•				
E Road over Lewis Wash	Mesa County	•				
34 Road over Grand Valley Highline Canal	Mesa County	•	•	•	•	•
29½ Road over Grand Valley Canal	Mesa County	•	•	•	•	•
Highway 330 Bridge	Mesa County	•	•	•	•	
Kannah Creek Bridge	Mesa County	•	•	•	•	
Little Dolores Bridge	Mesa County	•	•	•	•	•
Buttermilk Creek Bridge	Delta County	•			•	
Escalante Creek Bridge	Delta County	•				•
NE Shady Oak Way Bridge Rehab	Delta County	•				
Swinging Bridge Rehab	Moffat County	•				•
CR-301 over CO River Catamount Bridge	Eagle County	•	•	•	•	•
Castle Creek Bridge	Pitkin County	•	•	•	•	•
CR-300 over CO River Una Bridge	Garfield County	•	•	•	•	
Black Diamond Bridge	Garfield County	•	•	•	•	
Routt County Five Minor Structures	Routt County	•	•	•	•	
Kinnickinnick Bridge Rehab	Town of Vail	•				
95th Street Bridge	Boulder County	•				•
28th Street Bridge	City of Boulder	•				
US-85 Bridge	CDOT R4	•				

D ½ Road over Lewis Wash – Clifton, CO



This bridge replacement project was part of a larger Mesa County road reconstruction project on D ½ Road and the first bridge to be replaced on this reach of the Lewis Wash drainage to mitigate floodplain issues for the adjacent properties. The existing box culvert opening was inadequate to accommodate the design flows of Lewis Wash, resulting in numerous adjacent properties being included in the most recent FEMA floodplain mapping. In 2012, through a unique teaming arrangement with the City of Grand Junction, SGM provided bridge engineering services in partnership with the City's roadway and hydraulics engineering staff to deliver this Mesa County bridge replacement design project. A FEMA Flood Insurance Study for Lewis Wash resulted in numerous properties being included in the 100-year floodplain. This bridge was the first of two bridges on this reach of Lewis Wash identified for replacement to contain the 100-year floodplain within the channel, thereby eliminating the need for many Clifton residents to pay costly flood insurance.

Multiple structure types were evaluated through the structure selection process and a side-by-side precast prestressed concrete girder superstructure with a cast-in-place deck topping was ultimately selected and advanced to construction documents. Integral abutments and wingwalls founded on driven piles were designed to support the structure and the adjacent roadways. Lewis Wash also conveys Grand Valley Irrigation Company water to area users, therefore, the bridge sizing and construction schedule had to meet their requirements.

As part of this contract, SGM also designed the D Road Bridge over Lewis Wash in coordination with the City of Grand Junction Engineering Department. Final plans for this bridge were completed and provided to the City for an eventual construction project. *Additionally, we are currently engaged in the design of the E Road Bridge over Lewis Wash as a subconsultant.*

Client Benefits

- Replaced a narrow, functionally obsolete structure with a wider bridge that better accommodates pedestrians and traffic movements
- Provided increased hydraulic capacity to pass the 100-year design event
- Improved roadway safety at adjacent intersection

Challenges

- Lewis Wash conveys Grand Valley Irrigation Company water to area users; therefore, the bridge sizing and construction schedule had to also meet their requirements
- Numerous utilities through the project, including a major overhead power line, had to be accommodated through the design

Year:	2010 - 2012
Owner:	Mesa County, 200 S. Spruce St., Grand Junction, CO 81501 P.O. Box 20,000 Grand Junction, CO 81502-5001
Contact:	Kevin King, PE, PLS, 970.255.7147, kevin.king@mesacounty.us
Construction Cost:	$675,000

34-F.9A Bridge Replacement – Mesa County, CO



The 34 Road Bridge Replacement project is a **CDOT Local Agency project** located approximately halfway between Grand Junction and Palisade. A new bridge was needed to replace the structurally deficient and functionally obsolete structure. Over the years the original bridge had settled until the girders were below the water surface of the **Grand Valley Highline Canal**. The new bridge will provide the freeboard required by the Bureau of Reclamation and provide improved roadway safety features including improved stopping sight distances, greater clear zones, crash worthy bridge rails and guardrails between traffic and non-recoverable side slopes. Throughout the design process, SGM worked with CDOT, as well as four separate utilities and the Bureau of Reclamation, to ensure all their requirements were addressed. SGM provided bridge, roadway, and retaining wall design in addition to Environmental consulting. Expected construction to start in the Fall of 2020 once the irrigation season has ended.

Year:	2017 - Present
Owner:	Mesa County, 200 S. Spruce St., Grand Junction, CO 81501 P.O. Box 20,000 Grand Junction, CO 81502-5001
Contact:	Erik Borschel, PE, 970.255.7190, erik.borschel@mesacounty.us
Construction Cost:	TBD, $2,860,000 Estimated

29.5-E.63 Bridge Replacement – Clifton, CO



The 29 Road Replacement Project was another **CDOT Local Agency project** to replace a structurally deficient and functionally obsolete bridge. The original structure had significant corrosion of the exposed pile foundation and had been the location of a pedestrian drowning. Narrow sidewalks with no pedestrian railing may have contributed to the cause of the pedestrian falling into the canal which prompted Mesa County to install fencing on each side of the crossing. SGM designed a new crossing that provided better separation between pedestrians and the travel lanes, wider sidewalks and a pedestrian railing that complied with CDOT standards. Throughout the design process, **SGM worked with CDOT to ensure all their requirements were addressed as well as three separate utilities and the Grand Valley Irrigation Company**. SGM provided bridge, and roadway design.

Year:	2013 - 2017
Owner:	Mesa County, 200 S. Spruce St., Grand Junction, CO 81501 P.O. Box 20,000 Grand Junction, CO 81502-5001
Contact:	Kevin King, PE, PLS, 970.255.7147, kevin.king@mesacounty.us
Construction Cost:	$850,000

Relevant Experience – Pedestrian and Bicycle Facilities

In addition to our roadway bridges, we take great pride in the fact that we have connected Colorado communities from Trinidad to Loma with trail bridges for pedestrian and bicycle users.

Project Name	Owner	Bridge / Structural Design	Environmental Studies	404 Permitting	Hydrology / Hydraulics	CDOT Local Agency
Kokopelli Trail over Big Salt Wash	City of Fruita	●	●	●	●	●
Kokopelli Trail over Reed Wash	City of Fruita	●	●	●	●	●
Red Canyon Bridge	Mesa County	●	●	●	●	●
Limekiln Bridge	Mesa County	●	●	●	●	●
SH-82 Pedestrian Underpass	Town of Basalt	●				●
ECO Trail over Eagle River at Horn Ranch	Eagle County	●	●	●	●	
ECO Trail Underpass	Eagle County	●				
Brush Creek Trail	Eagle County	●	●	●	●	
Talbott Trail over UPRR	Town of New Castle	●				●
Talbot Trail over I-70	Town of New Castle	●				●
Talbot Trail over Colorado River	Town of New Castle	●			●	●
Rio Grande Trail over Woody Creek	Pitkin County	●	●	●	●	●
Lazy Glen Trail over Roaring Fork River	Pitkin County	●	●	●	●	
Stein Bridge over Roaring Fork River	Pitkin County	●	●	●		
West Midland Trail Bridge	Glenwood Springs	●				
3 Mile Creek Trail Bridge	Glenwood Springs	●	●	●	●	
Silverton Bridges	Town of Silverton	●				
Purgatoire River Bridge	City of Trinidad	●			●	
Centennial Park Bridges	City of Rifle	●	●	●	●	

SH-82 Basalt Underpass – Basalt, CO



This was a critical safety improvement project for the Town of Basalt that provided a long-desired grade-separated pedestrian crossing of State Highway 82 at Basalt Avenue. The new crossing provides a safer pedestrian/bike route between the existing up-and-down valley RFTA Bus Rapid Transit (BRT) stops at Basalt Avenue, and between the historic downtown and Southside areas of Basalt.

SGM was awarded this design project in August of 2014 and worked closely with the Town of Basalt, CDOT and RFTA in developing a design that accommodates a variety of users and serves as a gateway to the Town. The design project had several challenges that the design team worked through including construction phasing and traffic control during construction, high groundwater, utilities, public process and schedule constraints. The project was put out to bid in 10 months from the project initiation date. This is notable given the project complexities and the number of stakeholders and is a great example of resources that SGM can provide to meet the challenges of a complex and accelerated Local Agency project.

Client Benefits

- Provided a safe, grade-separated underpass for pedestrians and cyclists under SH-82
- Phased construction allowed project to be completed with minimal impacts to SH-82 vehicular traffic
- Improved traffic flow on Basalt Avenue and turning movements onto SH-82

Challenges

- High groundwater in the area required additional design efforts to mitigate buoyancy effects and to provide adequate waterproofing and drainage systems to minimize potential for water inundation inside the tunnel
- Compressed design schedule with multiple stakeholders and the CDOT Local Agency process

Construction was completed in 2017

Year:	2014 - 2017
Owner:	Town of Basalt, 101 Midland Ave, Basalt, CO 81621
Contact:	Boyd Bierbaum, 970.927.4398, boyd.bierbaum@basalt.net
Construction Cost:	$6,250,000

Kokopelli Section of the Colorado River Trail – Fruita, CO



The West Phase Kokopelli Section of the Riverfront Trail System is the crowning achievement and western anchor of a long-term dream in the Grand Valley. Over the past 27 years, the Riverfront Commission's vision has unfolded through many chapters of Colorado River cleanup projects and trail development projects, which are a passion of the community and a symbol of their quality-of-life values held so dearly: outdoor recreation, protection and enhancement of the Colorado River corridor, and connecting communities.

Initially, the vision began in the heart of the valley where the Colorado and Gunnison Rivers merge. The Colorado Riverfront Trail, beginning at Las Colonias, meanders along the Colorado River for 15 miles to the Monument View section on the western side of Grand Junction. The Kokopelli Trail segment is the last remaining piece to connect the trail to the Kokopelli Trailhead and trail system, providing a non-motorized connection from Clifton to Grand Junction, Fruita and Loma.

SGM was awarded the design contract for the 2.4-mile west phase in May 2016. Construction funding was secured as one of Governor Hickenlooper's 16 Trails in 2016. Construction began Dec. 2017 and was completed May 2018. Key tasks include:

- Project Management and agency coordination for Environmental Assessment
- HEC-RAS modeling, scour analysis and abutment structural design for pedestrian bridges over Reed Wash and Big Salt Wash
- Retaining wall design
- Riprap design for bank stabilization on the Colorado River
- Preparation of Construction Documents

Client Benefits:

- Recreational amenity that connects Kokopelli Mountain Bike Trail System to the community and the Town of Fruita and the Grand Valley
- Design allows for easy access to trail system from industrial and commercial developments west of Fruita to downtown Fruita and residential communities

Challenges:

- NEPA process for trail development in endangered species critical habitat
- Multiple permitting process with BLM, FHWA, and CDOT
- Reed Wash crossing and underpass below Interstate 70
- Limited space to place trail between Colorado River and Interstate 70

Year:	2016 - 2018
Owner:	City of Fruita, 325 E. Aspen Avenue Fruita, CO 81521
Contact:	Sam Atkins, PE, 970.858.8377, satkins@fruita.org
Construction Cost:	$2,800,000

Red Canyon Pedestrian Bridge – Mesa County, CO



The Red Canyon Pedestrian Bridge is an integral part of Mesa County's effort to provide a continuous pedestrian and bicycle facility connecting neighborhoods to a middle school and two elementary schools located along busy SH 340 in the Redlands of Grand Junction. SGM completed design in the spring of 2016 to produce the design of nearly ½ mile of both attached and detached sidewalk and a 110-foot steel pedestrian bridge. Some of the project complexities faced by the SGM design team included:

- Coordination with adjacent property owners
- CDOT special use permitting for sidewalk in SH 340 ROW
- Avoidance of low hanging overhead utilities
- Floodplain modeling and scour assessment

Client Benefits:

- Creates a safe walkable and bikeable connection between schools, neighborhoods, parks and shopping centers
- Provides an appropriate facility for users of all ages and abilities adjacent to a high-speed road
- Enhances quality of life by encouraging alternate means of transportation

Challenges:

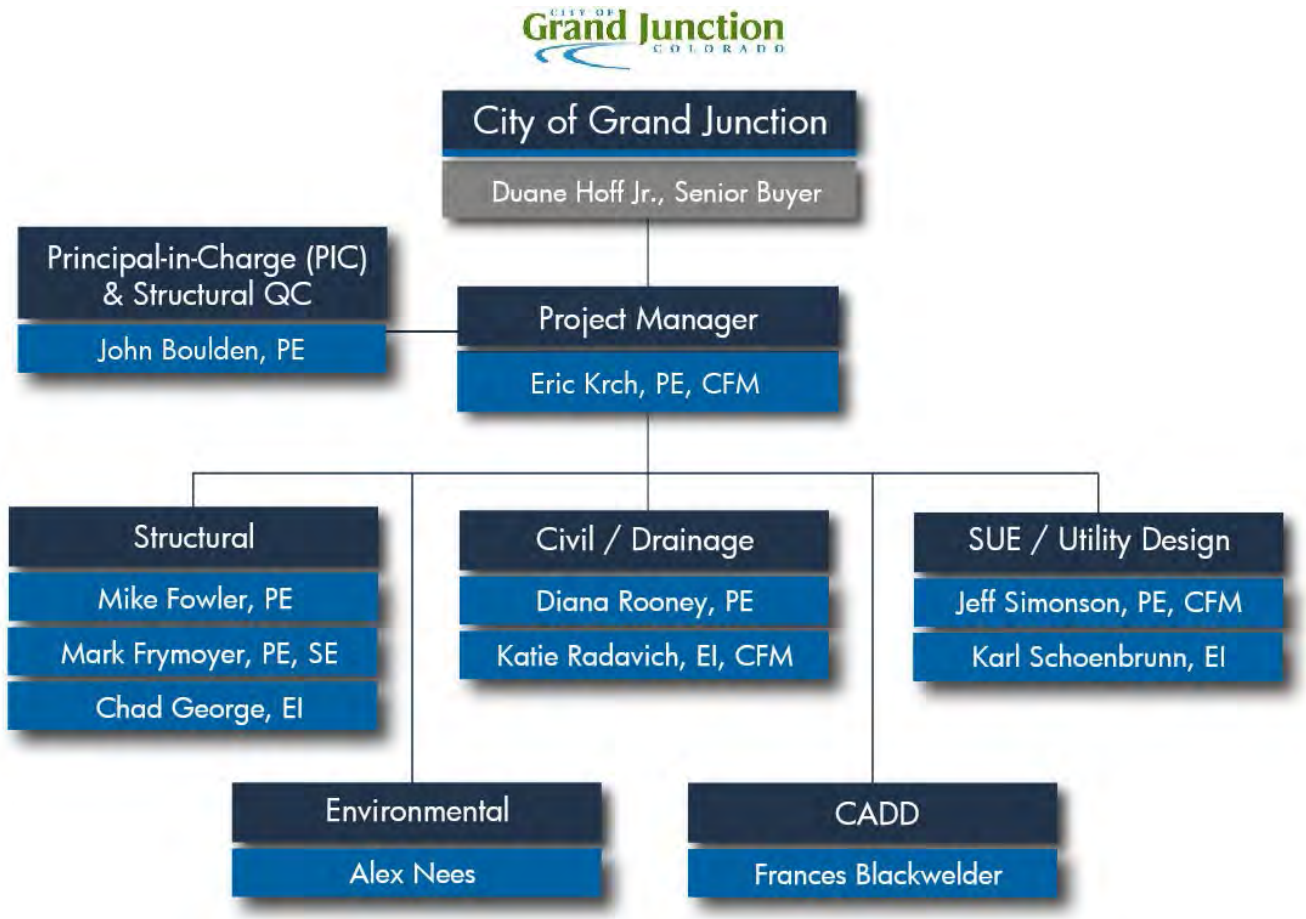
- Limited vertical clearance to overhead utilities
- Constructing deep foundation wall
- CDOT Special-Use Permit
- Coordination with utility providers

Year:	2015 - 2017
Owner:	Mesa County, 200 S. Spruce St., Grand Junction, CO 81501 P.O. Box 20,000 Grand Junction, CO 81502-5001
Contact:	Kevin King, PE, PLS, 970.255.7147, kevin.king@mesacounty.us
Construction Cost:	$600,000

Firm Personnel and Credentials

SGM has assembled a proven team of highly and uniquely qualified individuals with knowledge of the project scope, location, and challenges to be overcome. We have selected our team specifically because of their proven ability to work together to anticipate and quickly react to ever-changing challenges and opportunities that arise during the design process – and the short window on this project demands a well-tuned team. Our team structure reflects the importance SGM places on making sure the **City of Grand Junction** has a qualified, experienced and efficient team to ensure the project success.

The team will be led by **Eric L. Krch, PE, CFM.** Thoroughly experienced, Eric has provided project management, acted as an on-call county and town engineer, undertaken environmental and agency permitting, engineering design, construction management, and has provided supervision on many projects. Eric will have the full support of SGM principals **John Boulden, PE,** and **Mike Fowler, PE**, who will lend technical expertise, ensure staff availability and provide project quality control. Mike assisted the City in this same role on the D½ Road and D Road bridges over Lewis Wash and understands what will be required to supplement the City's engineering needs for this project. *Brief biosketches are presented below with full resumes available upon request.*



Project Manager / Hydraulic Design Manager



Eric L. Krch, PE, CFM
Professional Experience: 35 years / 3 years with SGM
Prof. License: CO PE 28583, AZ–24992, NM–19143, UT–7442040-2202
Telephone: 970.456.1428 / **Location:** Grand Junction / **Availability:** 30%

Education
BS, Engineering Science, University of Northern Arizona, 1981

Registration
Professional Engineer, CO, AZ, NM, UT

Eric has more than 35 years of experience in civil engineering and will serve as the **Project Manager** and the **Lead Hydraulic Engineer** for the project. He has a specialized background in surface water hydrology, stream channel/bridge hydraulics, and jurisdictional dam design/permitting. Additionally, Eric has experience in construction specifications, master drainage studies, roadway design, site development, traffic studies, surveying, pavement design and rehabilitation. *Eric is currently managing the on-going re-write of Mesa County's Design Standards and the SH141 / Springfield Road Intersection Improvements project. He served as the SGM Project Manager for the recently completed Kimball Creek Safety Improvement Design project in Collbran.*

Principal-in-Charge / Structural Quality Control (QC) Manager



John Boulden, PE
Professional Experience: 15 years / 11 years with SGM
Professional License: CO PE 43185
Telephone: 970.456.1439 / **Location:** Grand Junction / **Availability:** 20%

Education
BS and MS Civil Engineering, Colorado State University, 2005, 2008

Registration
Professional Engineer, CO

John brings 15 years of diverse experience to the project to serve as the **Principal-in-Charge,** ensuring project success, and the **Structural Quality Control Manager**. During his career with SGM, John has designed numerous new and modifications to structures including masonry, reinforced concrete, prestressed concrete, steel, timber, and aluminum. Prior to becoming an engineer, John worked in the construction industry and this experience provides him with an understanding of how to design a project that is economical, as well as constructible, thus adding value to the project during construction oversight activities. *John's most recent roadway structural design experience includes serving as the Lead Bridge Engineer for the MESA-34-F.9A and MESA-24-H.96 Bridge Replacement projects.*

Lead Structural Engineer



Mike Fowler, PE
Professional Experience: 23 years / 12 years with SGM
Professional License: CO PE 0035231
Telephone: 970.384.9075 / **Location:** Glenwood Springs / **Availability:** 20%

Mike is a Senior Engineer and is the SGM Structural Sector Leader. He will serve as the **Lead Structural Engineer**, providing oversight of the bridge and retaining wall design elements on this project. Mike's 23 years of experience include the design and construction of new bridges and roadway project management. He has completed the final design or independent design review of more than 100 bridges, including highway bridges, railroad bridges and pedestrian bridges. *Mike is currently serving as the Local Agency Project Engineer for the the Pitkin County Castle Creek Bridge construction project.*

Education
BS and MS Civil Engineering
University of Nebraska, 1994, 1997

Registration
Professional Engineer, CO

Structural Design Engineer



Mark Frymoyer, PE, SE
Professional Experience: 12 years / 3 years with SGM
Professional License: CO PE 0054729
Telephone: 970.384.9003 / **Location:** Glenwood Springs / **Availability:** 50%

Mark brings 12 years of diverse experience to the project to serve as the **Structural Design Engineer.** Mark has twelve years of experience specializing in design and analysis of both new bridge and existing bridges, retaining walls, and transportation structures. Mark is also a certified bridge inspector and team leader. He has extensive experience with the design and construction of bridge and drainage structures including prestressed concrete, reinforced concrete, steel, and timber. Mark's experience and background have helped to produce designs that are economical, constructible, and durable. *Mark's most recent experience includes; E Road over Lewis Wash Bridge Replacement (Mesa County); E8-39.1 Bridge Rehabilitation (Mesa County); Castle Creek Bridge (Pitkin County); Buttermilk Bridge (Delta County); F Street Bridge Rehabilitation (City of Salida)*

Education
BS Civil Engineering
Purdue University, 2007

MS Structural Engineering
University of Washington, Seattle, 2009

Registration
Structural Engineer, WA
Professional Engineer, CO, WA, MT, OR, CA

Structural Designer



Chad George, EI
Professional Experience: 3 years / 3 years with SGM
Professional License: N/A
Telephone: 970.384.9037 / **Location:** Glenwood Springs / **Availability:** 50%

Chad has three years of experience with a variety of bridge, retaining wall, and inspection projects and will assist the team as a **Structural Designer**. His bridge design experience includes prestressed and reinforced concrete structures, steel structures, and timber structures. His wall design experience includes cast-in-place cantilever walls, block walls, and soil nail walls. Chad is experienced with AutoCAD Civil 3D and routinely coordinates with the civil and roadway engineers on his projects. *Chad's recent project experience includes the design of the NE Shady Oak Bridge Rehabilitation (Delta County); Castle Creek Bridge (Pitkin County); Buttermilk Bridge Replacement (Delta County); Kinnickinnick Bridge Rehabilitation (Town of Vail).*

Education
BS and MS Civil Engineering
Colorado School of Mines, 2016, 2017

Registrations
Engineer-in-Training, CO

Lead Civil Engineer



Diana Rooney, PE
Professional Experience: 12 years / 2 years with SGM
Professional License: CO PE 0052927
Telephone: 970.245.2571 / **Location:** Grand Junction / **Availability:** 20%

Diana will serve the role of **Lead Civil Engineer** for this project. Diana has 12 years of experience in the design, construction and management of complex urban and education projects. She is fluent and technically competent in civil, utility, geotechnical and environmental design and construction standards and practices. Diana has designed storm water, sanitary, earth retaining systems and utility improvements for site and street projects. *Diana's most recent projects include: Mesa County / CDOT 34 Road Bridge (SUE Project), Mesa County Kimball Creek Safety Improvement Design project (soil nail and MSE walls), and the Mesa County 24 Road Bridge / 24 & I Road Intersection.*

Education
BE Civil Engineering, Stevens Institute of Technology, Hoboken, NJ, 2007

Registration
Professional Engineer, CO

Drainage Engineer



Katie Radavich, EIT, CFM
Professional Experience: 5 years / 2 years with SGM
Professional License: Registered Engineering Intern
Telephone: 970.456.1467 / **Location:** Grand Junction / **Availability:** 30%

Katie will serve the role of **Drainage Engineer** for the project. She provides hydrologic and hydraulic (H&H) engineering services for the Western Slope region including stormwater drainage analysis and design, floodplain modeling/permitting, CAD Civil3D drafting, GIS services, and field investigations. Katie has experience with stormwater management, hydrologic (HEC-HMS) and hydraulic modeling (HEC-RAS), storm drain system design (SSA), and research and analysis of passive stormwater treatment systems, including green infrastructure and low impact development (LID) practices. She has a master's degree from the Colorado School of Mines in Hydrology, focusing on stormwater modeling and green infrastructure treatment methods. *Katie's most recent projects include the on-going re-write of Mesa County's Design Standards; stormwater drainage analysis for the Cameo Shooting Range, Grand Valley Water Users Association; drainage studies for 2814 Patterson Road residential development in Grand Junction, CO; and the Alpenglow Co-Housing development in Ridgway, CO.*

Education
MS, Civil Engineering/ Hydrology, Colorado School of Mines, 2016

BS, Materials Science & Engineering, University of Wisconsin-Madison, 2010

Registrations
Certified Floodplain Manager (CFM)

SUE / Utility Design Manager



Jeff Simonson, PE, CFM
Professional Experience: 36 years / 34 years with SGM
Professional License: CO PE 0026152
Telephone: 970.384.9005 / **Location:** Glenwood Springs / **Availability:** 15%

Education
BS Civil Engineering, Colorado State University, 1984

Registration/ Certification
Professional Engineer, CO

Certified Floodplain Manager (CFM)

Jeff will serve as the **Lead SUE / Utility Design Manager** to ensure full compliance with the new State subsurface utility engineering (SUE) requirements for the project. Jeff provides a diverse, multi-disciplined approach spanning over 30 years of project and construction management. He is a proven project manager and project engineer for a variety of projects including state/county/ municipal roadway and intersection design and construction, and district and municipal infrastructure improvements. Jeff has completed a variety of projects requiring utility locating, marking, potholing, owner coordination and design. Jeff is also a Certified Floodplain Manager and has served as the Engineer for the Town of New Castle and the City of Rifle. *Jeff's most recent projects include the Iron Mountain Hot Springs subsurface utility engineering, City of Glenwood Springs Red Mountain Subdivision subsurface utility engineering, Town of New Castle's Bulk Water Station subsurface utility engineering, assistance with the on-going re-write of Mesa County's Design Standards, stormwater drainage analysis review for the Cameo Shooting Range and the Grand Valley Water Users Association Cameo Dam and Canal Improvements.*

SUE/Utility Engineer



Karl Schoenbrunn, EI
Professional Experience: 14 years / 1 year with SGM
Professional License: Registered Engineering Intern
Telephone: 970.384.9090 / **Location:** Glenwood Springs / **Availability:** 30%

Education
BS Architectural Engineering, University of Colorado Boulder, 2004

Karl has 10 years of civil contracting experience for heavy highway and civil development projects along with four years of civil design experience, ranging from small municipality to highway projects. He will serve as the **SUE / Utility Engineer** for the project. Karl has received training in Subsurface Utility Engineering (SUE), understands how the Colorado State Law (CRS 2018 Title 9, Article 1.5) relates to ASCE 38 standards, and knows the value of providing quality utility design data from his time as a civil contractor. In the field he has collaborated with municipality owners, utility owners, and design team members to coordinate the relocation of many communication, electric, and gas facilities found to conflict with proposed roadway designs. *Karl's most recent relevant SUE project experience includes Red Mountain Subdivision, City of Glenwood Springs; Arbaney Pool Waterline, Town of Basalt; Sludge Line Replacement, City of Craig; Iron Mountain Hot Springs Improvements, Glenwood Springs; and Low Zone Water, City of Salida.*

Senior Ecologist



Education
MS Biology, Stanford, 2011

BA Ecology and Evolutionary Biology, Princeton, 2006

Registrations
USACE Wetland Delineator, stormwater inspector, MSHA certified, UPRR Safety training, Safeland, FWS-certified cuckoo surveyor, FWS-certified Uintah Basin Rare Plant surveyor

Alex Nees, MS

Professional Experience: 14 years / 2 years with SGM
Professional License: USACE Wetland Delineator, stormwater inspector, MSHA certified
Telephone: 970.245.2571 / **Location:** Grand Junction / **Availability:** 30%

Alex will provide **environmental assessment and permitting** for this project. Alex is a consulting biologist with a decade of experience in the private and public sectors, focusing on infrastructure and development projects on federal lands. He has extensive experience with multi-agency coordination for the design and approval of transportation projects, specializing in NEPA and environmental assessment of linear projects such as roads, rail, and pipelines. He currently works as an embedded consultant in Region 3 of CDOT, managing the environmental clearance process for State Highway projects throughout the Region. He also has experience working with the Bureau of Land Management, focusing on lands and realty assessments and fluid minerals projects. Key competencies include NEPA assessment and permitting, Endangered Species Act compliance, Clean Water Act permitting, and acquisition of right-of-ways on federal lands. *Alex's most recent projects include: US Highway 24 – Leadville Resurfacing; Elkhead Reservoir - Wetland Monitoring and Mitigation; City of Craig WWTP - Pipeline Replacement; State Highway 82/133 – Carbondale Traffic Signal Replacement.*

CADD



Education
AAS Engineering Technology; Colorado Mesa University, CO, 1989

Frances Blackwelder

Professional Experience: 30 years / 7 years with SGM
Professional License: N/A
Telephone: 970.456.1429 / **Location:** Grand Junction / **Availability:** 35%

Frances Blackwelder will provide **AutoCAD (CADD) Drafting** for the project. Frances has 30 years of experience working in the civil engineering field for the private and public sector. Her background consists of preparing complete commercial and residential land development construction drawings, including grading plans, sewage plan and profiles, drainage, plats, topographic maps, boundary surveys, post-construction drawings and ALTA Surveys. Frances has also prepared Improvement Location Certificates, Improvement Survey Plat and residential foundation plans. Through the years, she has developed an understanding of current development standards and specifications for the City of Grand Junction, City of Fruita, Town of Palisade and Mesa County. *Frances' most relevant project experience includes the Kimball Creek Safety Improvement Design project, and the MESA-34-F.9A and MESA-24-H.96 Bridge Replacement projects for Mesa County.*

Strategy and Implementation Plan

Understanding of General Project Scope

The **City of Grand Junction's N. Leach Creek Bridge at 24 Road & G Road project** consists of roadway corridor improvements on 24 Road. The proposed roundabout at 24 Road and G Road will have an expanded footprint compared to the existing signalized intersection and requires a new structure to span N. Leach Creek. The City is performing all of the roadway and civil engineering design for the project, with the exception of the structural and hydraulics engineering and USACE permitting for the new N. Leach Creek structure. The consultant work will be performed in close coordination with City Engineering staff and will be integrated into the City's construction documents. The new structure will be designed to accommodate the 100-year design flow of N. Leach Creek and the roadway geometry of G Road and the roundabout.



The existing structure consists of a steel beam and concrete deck superstructure supported by pile bents. The waterway opening is approximately 110 square feet, but is significantly constricted by aerial pipe crossings under the bridge.

Multiple structure types may be viable for the new structure. These will be vetted through a structure selection process and the structure type best suited for this application will be advanced to final design. It is anticipated the new structure will require a larger waterway opening and the utilities will be relocated to eliminate the flow constrictions.



The City has stated that the project will be advertised for bids in October. This provides a design completion timeline of just twelve weeks from contract execution to construction bid, which includes the City's required 30% and 90% design review milestones. While aggressive, the timeline is achievable with a streamlined structure selection process and close coordination between the consultant and the City. From past experience, the largest obstacle for the City meeting this schedule will be permitting. We will schedule wetland delineation immediately upon notification of project award and submit the PCN to the Army Corps as soon as final impacts can be quantified.

As described in Addendum #2, the City has applied for Multi-Modal Opportunity Funding through CDOT to design and construct a bicycle path along 24 Road including a trail bridge over Leach Creek and a trail underpass below G Road. As this portion of the project will be receiving funding from CDOT, the design will follow the CDOT Local Agency process and include FIR and FOR design review milestones with CDOT coordination. As with the G Road Bridge, all structural and hydraulic engineering will supplement the City's civil design and be coordinated with City's bike path designer.

In accordance with the RFP requirements, SGM will deliver:

1. Structure Selection Report (up to 3 alternatives for the G Road Bridge and up to 2 alternatives for each bike path structure)
2. Preliminary Design Plans and EOPC (30% and FIR)
3. Final Design Plans and EOPC (90% and FOR)
4. Construction Plans and Specifications (stamped PDF electronic files)
5. Wetland Delineation Report and US Army Corps Preconstruction Notification application
6. ACAD drawings
7. Bi-weekly project design meetings with staff

Exceptions:

- City is responsible for obtaining temporary construction and permanent easements
- City is responsible for developing Right-of-Way plans and documents
- No additional field surveying will be required by the consultant
- No additional geotechnical investigations or materials testing will be required by the consultant
- Any fees for associated permits, review agencies, plan approvals and/or construction to be paid directly by City

Overall Philosophy

At **SGM** our philosophy is to approach every project on a case-by-case basis to meet the needs of the client and stakeholders, and to deliver the most constructible, cost-effective solution possible. Our designers follow an iterative approach in which they first analyze several alternatives in coordination with our clients to consider feasibility and costs. Based upon site constraints, permitting, and technical issues discovered during this period, the solution is further adjusted until a balance between all the project needs, constructability, maintenance, and safety is achieved.

Our goal is to act as an extension of the City - to take your needs and make them our own. We believe additional time allocated to design and communicating issues to you ultimately reduces overall construction costs by minimizing construction delays due to incomplete planning and design. We strive to prepare a comprehensive set of plans and specifications a qualified contractor can easily interpret and construct with a minimal amount of construction support, once again reducing project costs. To achieve these goals, SGM will:

- Assign the most qualified personnel to each component of the project and portion of the design and drafting
- Evaluate each stage of the construction process to identify “un-buildable” elements of the design
- Discuss with City portions of the design we feel may be difficult to construct
- Discuss material specifications with vendors and contractors
- Perform independent QA/QC review by senior engineers experienced in the specific disciplines

Structural

- **Task 1:** This task includes the completion of the preliminary design, completion of the Structure Selection Report, and selection of the alternative to advance to final design for each structure.

  At the beginning of the preliminary design, we will do a broad alternative review. This exercise will consider many alternatives based on the criteria outlined in the RFP and others established by the City. From the broad alternatives review exercise, we will narrow down the alternatives to three for the G Road Bridge and two each for the Bike Path Bridge and Undercrossing.

  A preliminary design will be completed for each alternative. For the two bridges over Leach Creek, the hydraulic and scour analyses will be used to size the openings. The structure alternatives will be reviewed for compatibility with the City's proposed horizontal and vertical alignments. The alternatives will be reviewed to determine which can best accommodate the existing and proposed utilities. The preliminary design will include basic engineering to determine the feasibility of the alternative, development of a structure and foundation layout, and a constructability review. We will identify any possible constraints to the schedule and identify critical path construction activities that the City can plan for in advance to reduce risk.

  The results of the preliminary design will be incorporated into the Structure Selection Report. This report will include a narrative describing each alternative, an assessment of feasibility, and consideration of the criteria described above. A summary matrix providing all this information in a condensed format will be included. The preliminary design plans and Engineer's Opinion of Probable Cost (EOPC) with a line item breakdown will be included in the appendices.

  Using the Structure Selection Report as a basis, we will attend a review meeting to help the City select the chosen alternative to advance to final design.

  Given the tight design schedule, we intend to consider a CDOT Standard Plan box culvert for the G Road Bridge and the Bike Path Undercrossing and a prefabricated bridge for the Bike Path Bridge. These pre-engineered or prefabricated structures will allow us to meet the demands of the short design schedule and focus on optimizing the structure layouts. Additionally, these structures can typically be built quickly and should meet the structural, geometric, and hydraulic needs at this site. If the hydraulics allow, our goal for the G Road Bridge is to keep the opening at less than 20' so that this can remain a minor structure. This will minimize inspection and reporting requirements for the City.

- **Task 2:** Once an alternative for each structure is selected, we will address and incorporate any comments from the City. If any changes are needed on the City's proposed horizontal and vertical alignment to accommodate the structure, we will coordinate that immediately. We will then begin the final design.

  For each of the three structures, we anticipate approximately 5 plans sheets including general notes, general layout, engineering geology sheet (assumed to be completed by City's geotechnical engineer), and two miscellaneous detail sheets. We will develop a 90% EOPC and project standard and special Specifications. After the City has completed its review, SGM will attend a 90% design review meeting.

Following the 90% design review meeting, the City's comments will be addressed along with any other changes needed to the plan set, Specifications, and EOPC. A bid schedule will be assembled and incorporated into the package to finalize the bid documents.

Final bridge and underpass design will be in accordance with the latest version of the AASHTO LRFD Bridge Design Specifications and CDOT Bridge Design Manual. The Bike Path Bridge will also be designed in accordance with the AASHTO Guide Specifications for the Design of Pedestrian Bridges.

- **Task 3:** After the bid documents are assembled and the project is advertised, SGM will attend a pre-bid meeting in which any Contractor technical questions will be answered. SGM will provide any responses to technical questions submitted by Contractors and assist the City in assembling any addenda as needed.

  During the Construction phase, SGM will provide resident engineering services as needed. For each of the structures, a total of two (2) site visits is assumed. This is intended to be for resolution of construction issues. SGM will also review Contractor submittals including material submittals and shop drawings. We will assist the City with any change requests and following successful completion of the project, SGM will provide as-built drawings. The as-built drawings are assumed to be redlines on the released for construction plan set.

- **Exclusions**: Our design scope does not include any retaining walls—only the wingwalls coming off the underpass or bridge structures. We do have this capability and could provide a scope and fee for this work if necessary.

Environmental

North Leach Creek and Leach Creek have been extensively modified and channelized but are naturally occurring drainages and are therefore under the jurisdiction of the US Army Corps of Engineers (USACE). The USACE will be the lead federal agency on this project, and compliance with federal regulations will be required as a component of the permit application to the USACE. Note that this assessment does account for the recent emergency stay on the 2020 Waters of the U.S. Rule in Colorado, which determines the limits of USACE jurisdiction. However, if the stay is lifted during the course of this project, North Leach Creek would remain under USACE jurisdiction, and the environmental requirements of this project would not change.

- **Task 1:** As a component of the coordination phase of this project, SGM will initiate and maintain contact with all relevant regulatory agencies, primarily the Colorado West Regulatory Branch of the USACE. SGM will also coordinate with CDOT Region 3 staff to ensure compliance of the bike path component with all State transportation requirements, including non-historic 4(f) and 6(f) consultation associated with Canyon View Park. We have budgeted for up-to two (2) in-person or virtual meetings but anticipate that the majority of all coordination can be done via correspondence given the limited environmental impacts expected.

- **Task 2:** To inform the development of FIR alternatives and the Structure Selection Report, SGM will complete a wetland delineation for the portion of Leach Creek and associated hydrology in proximity to the project, prepared in compliance with the wetland delineation standards of the USACE for the Arid West. A cultural resource report will be included to demonstrate compliance with Section 106 of the National Historic Preservation Act. We do not anticipate the need for formal consultation with the US Fish and Wildlife Service, due to the

lack of habitat or foreseeable impact to any Threatened or Endangered species. The wetland delineation report will allow a determination of relative levels of impact from each of the developed alternatives and will form the basis of the permit application for the selected structure. SGM recommends that the City does NOT seek a formal Jurisdictional Determination from the USACE to confirm the delineation findings; the project's compressed schedule will not allow for a timely review of alternatives if the delineation is submitted for USACE review and confirmation. We propose instead to rely on informal consultation with the USACE throughout the process, to ensure that the wetland delineation findings will be accepted as part of the final permit application. We have an excellent working relationship with the Colorado West Regulatory Branch, and we have used this approach on many other projects with this office.

- **Task 3:** As part of the Final Design process, SGM will prepare applications and acquire all necessary permits and clearances for the Selected Alternative. Primarily this will include a formal Preconstruction Notification and Nationwide Permit application to the USACE. The USACE permit will serve as evidence of compliance with federal environmental protection policy, including NEPA, and CDOT staff will incorporate the USACE's environmental clearance of the project by reference; therefore, we do not expect to perform a separate and parallel environmental assessment for CDOT compliance. However, the bike path component is funded by transportation dollars, and therefore must be assessed for compliance with Sections 4(f) and 6(f) of the US DOT Act, in relation to the use of the Canyon View Park property, if any.

Cultural Requirements and Project Approach

The G Road bridge over North Leach Creek was built in 1989, is less than 50 years old, and does not have any qualifying architectural or engineering features. Therefore, it will not need to be recorded as part of the Section 106 cultural resource compliance process. 24 Road and Baseline/G Road are both historic linear features and will need to be recorded as part of the cultural resource assessment. There may also be remnants of the historic structures/features that were formerly located at the northwest and southwest corners of the 24 Road/G Road intersection that will need to be recorded.

Hydraulic Services

The tasks under this engineering aspect of the project will aid in developing cost-effective crossing structure alternatives, ensuring that the associated funding agencies bridge hydraulic clearances are met by the selected crossing structure, and the floodplain impacts are approved by the City's' Floodplain Manager, Rick Dorris.

North Leach Creek and Leach Creek have been modified via channelization but are naturally occurring drainage systems within the Grand Valley Drainage District (GVDD) boundaries. Both Creeks provide routing of irrigation return flows to the Colorado River, but are not identified on the GVDD GIS website as maintained "Drains."

The 2017 Letter of Map Revision (Addendum #2 attachment) updated the hydrology for these drainages and, through the project limits, provide base flood elevations (BFE) via an updated HEC-RAS hydraulic modeling.

- **Task 1:** SGM will initiate research and data acquisition in this task. SGM will acquire, with the City's assistance, the 2017 LoMR HEC-RAS model from FEMA or the City's records, locate the hydraulic design report for North Leach Creek for the current G Road Bridge, and review the Technical Study Data Notebook to understand the updated hydrology for both creeks. SGM will prepare a new HEC-RAS model for each bridge site (six cross-section minimum) using the City provided survey data and 2017 LoMR modeling parameters. This effort will develop a "duplicate effective" floodplain model using the most contemporary data. The results of this effort will be compared to the current flood profile for each creek and results will be shared with the City via an internal design memorandum.
- **Task 2:** The HEC RAS model of existing conditions will be used to evaluate up to three bridge options for the two creek crossing sites. Each bridge alternative will be added to the base model and analyzed for impacts to the floodplain limits and to verify a minimum 1% storm return interval low-chord clearance. Scour impacts will be evaluated using the HEC RAS internal hydraulic computation "Bridge Scour" feature. Grain size data for the scout modeling will be taken form the City's Geotechnical Consultants stream bed sieve sampling\testing results. *SMG does expect to see some increase in scour at the outlet of the new G Road crossing due to the length of the crossing, creating higher exit velocities than the current structure.* The results from the HEC RAS modeling of the alternatives will be reviewed with our bridge designers and used to inform their FIR alternative recommendations. A summary of finding memorandum will be prepared for the modeling effort.
- **Task 3:** A final HEC RAS model will be developed for the selected alternative in the FOR design package. Refinements to the model will be made to address wing wall types, scour impacts, changes in the channel Manning "n" values, and cross-sections on the approach and exit channels. *It is indeterminate at the time of this proposal if the selected alternative will have impacts on the current Base Flood Elevation* (*BFE) in each creek.* SGM will prepare a memorandum for the City that addresses the extents of BFE impact and recommend, if beneficial, consideration of a LoMR. For the Leach Creek pedestrian bridge, SGM will prepare a design report and plans consistent with the CDOT 2019 Drainage Design Manual. SGM will also complete a City floodplain development permit for each crossing site.

Subsurface Utility Exploration



Since the passage of Colorado State Law (Colorado Revised Statutes (CRS) 2018, Title 9, Article 1.5), SGM has been on the leading edge of educating our Western Slope clients and municipalities on the implications of this new law. We established the foundational elements to best serve our clients and comply with the requirements of CRS 2018, Title 9, Article 1.5 and how it relates to ASCE 38 standards. We have purchased utility locating equipment and are trained in locating utilities using pipe and cable locators and ground penetrating radar (GPR). We have done this to better control costs and streamline scheduling for our clients on their projects. We will assist the City in obtaining a utility clearance.

References

Over the past 30 years, SGM has represented municipalities across Western Colorado with similar needs to the City of Grand Junction. All the communities have limited staff and resources to keep up with the ever-growing needs of the community. SGM has learned, over the past 30 years, how to help make communities successful in optimizing their limited resources. We welcome you to contact any of the references beginning on page 4 to hear for yourself the level of professionalism SGM delivers.

Schedule

The schedules below provide a breakdown of project tasks for the G Road and Leach Creek Bridge at 24 Road project.

Schedule: G Road Bridge

Milestone	Approximate Date
Notice-To-Proceed	July 23, 2020
Preliminary Plans/Structure Selection Report Submittal	August 28, 2020
FIR Meeting	September 4, 2020
90% Plans, Specifications, and EOPC Submittal	September 25, 2020
90% Design Review Meeting	October 2, 2020
Final Construction Plans and Specifications	October 9, 2020
Advertisement for Construction	October 17, 2020

Schedule: Bike Path Bridge and Undercrossing

Milestone	Approximate Date
Notice-To-Proceed	July 23, 2020
Preliminary Plans/Structure Selection Report Submittal	October 16, 2020
FIR Meeting	October 23, 2020
90% Plans, Specifications, and EOPC Submittal	November 20, 2020
90% Design Review Meeting	December 4, 2020
Final Construction Plans and Specifications	December 18, 2020
Advertisement for Construction	December 26, 2020



We provide innovative, practical solutions to make our clients successful while ensuring the health, safety and welfare of our neighbors. We develop and maintain lasting client relationships and are committed to our local communities.

GRAND JUNCTION
744 Horizon Ct., Suite 250
Grand Junction, CO 81506
970.245.2571

SGMINC0-01 IRYNAT

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 7/31/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Joseph Stewart	
Mountain West Insurance - Glenwood 201 Centennial St 4th Floor Glenwood Springs, CO 81601	PHONE (A/C, No, Ext): 128214	FAX (A/C, No):
	E-MAIL ADDRESS: joes@mtnwst.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Travelers Indemnity Company	25658
INSURED	INSURER B : Travelers Property Casualty Company of America	25674
Schmueser Gordon Meyer, Inc. dba SGM Inc. 118 West 6th Street, Suite 200 Glenwood Springs, CO 81601	INSURER C : Pinnacol Assurance	41190
	INSURER D : USAIG	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER: 1** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X $14M Per Proj Agg Ca GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:	X		6809H736866	5/1/2020	5/1/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 2,000,000 $ 1,000,000 $ 10,000 $ 2,000,000 $ 4,000,000 $ 4,000,000
B	AUTOMOBILE LIABILITY X ANY AUTO OWNED AUTOS ONLY SCHEDULED AUTOS HIRED AUTOS ONLY NON-OWNED AUTOS ONLY	X		BA7524X873	5/1/2020	5/1/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
B	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 10,000			CUP7525X138	5/1/2020	5/1/2021	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		4182378	5/1/2020	5/1/2021	X PER STATUTE X OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000 $ 1,000,000 $ 1,000,000
B	Professional Liab			107197700	12/31/2019	12/31/2020	Per Claim/Aggregate	2,000,000
D	Drone Liability			SIHL1F765	5/24/2020	5/1/2021	Per Occurrence	1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

24 Road Bike Path Bridge & Underpass

Holder is Additional Insured under General Liability with respect to ongoing & completed operations as required by written contract.

General Liability coverage is primary & non-contributory as required by written contract.

CERTIFICATE HOLDER

City of Grand Junction
250 North 5th Street
Grand Junction, CO 81501

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Iryna Trauger

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Do not add this form to a policy. It is for informational purposes only.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED (ARCHITECTS, ENGINEERS AND SURVEYORS)

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

1. The following is added to **SECTION II – WHO IS AN INSURED**:

Any person or organization that you agree in a "written contract requiring insurance" to include as an additional insured on this Coverage Part, but:

a. Only with respect to liability for "bodily injury", "property damage" or "personal injury"; and

b. If, and only to the extent that, the injury or damage is caused by acts or omissions of you or your subcontractor in the performance of "your work" to which the "written contract requiring insurance" applies, or in connection with premises owned by or rented to you.

The person or organization does not qualify as an additional insured:

c. With respect to the independent acts or omissions of such person or organization; or

d. For "bodily injury", "property damage" or "personal injury" for which such person or organization has assumed liability in a contract or agreement.

The insurance provided to such additional insured is limited as follows:

e. This insurance does not apply on any basis to any person or organization for which coverage as an additional insured specifically is added by another endorsement to this Coverage Part.

f. This insurance does not apply to the rendering of or failure to render any "professional services".

g. In the event that the Limits of Insurance of the Coverage Part shown in the Declarations exceed the limits of liability required by the "written contract requiring insurance", the insurance provided to the additional insured shall be limited to the limits of liability required by that "written contract requiring insurance". This endorsement does not increase the limits of insurance described in Section **III** – Limits Of Insurance.

h. This insurance does not apply to "bodily injury" or "property damage" caused by "your work" and included in the "products-completed operations hazard" unless the "written contract requiring insurance" specifically requires you to provide such coverage for that additional insured, and then the insurance provided to the additional insured applies only to such "bodily injury" or "property damage" that occurs before the end of the period of time for which the "written contract requiring insurance" requires you to provide such coverage or the end of the policy period, whichever is earlier.

2. The following is added to Paragraph **4.a.** of **SECTION IV – COMMERCIAL GENERAL LIABILITY CONDITIONS**:

The insurance provided to the additional insured is excess over any valid and collectible other insurance, whether primary, excess, contingent or on any other basis, that is available to the additional insured for a loss we cover. However, if you specifically agree in the "written contract requiring insurance" that this insurance provided to the additional insured under this Coverage Part must apply on a primary basis or a primary and non-contributory basis, this insurance is primary to other insurance available to the additional insured which covers that person or organizations as a named insured for such loss, and we will not share with the other insurance, provided that:

(1) The "bodily injury" or "property damage" for which coverage is sought occurs; and

(2) The "personal injury" for which coverage is sought arises out of an offense committed;

after you have signed that "written contract requiring insurance". But this insurance provided to the additional insured still is excess over valid and collectible other insurance, whether primary, excess, contingent or on any other basis, that is available to the additional insured when that person or organization is an additional insured under any other insurance.

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

BLANKET ADDITIONAL INSURED – PRIMARY AND NON-CONTRIBUTORY WITH OTHER INSURANCE

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

PROVISIONS

1. The following is added to Paragraph **A.1.c.**, **Who Is An Insured**, of **SECTION II – COVERED AUTOS LIABILITY COVERAGE**:

This includes any person or organization who you are required under a written contract or agreement between you and that person or organization, that is signed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, to name as an additional insured for Covered Autos Liability Coverage, but only for damages to which this insurance applies and only to the extent of that person's or organization's liability for the conduct of another "insured".

2. The following is added to Paragraph **B.5.**, **Other Insurance** of **SECTION IV – BUSINESS AUTO CONDITIONS**:

Regardless of the provisions of paragraph a. and paragraph **d.** of this part **5. Other Insurance,** this insurance is primary to and non-contributory with applicable other insurance under which an additional insured person or organization is the first named insured when the written contract or agreement between you and that person or organization, that is signed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, requires this insurance to be primary and non-contributory.

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Request for Proposal
RFP-4802-20-DH

Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road

RESPONSES DUE:
July 2, 2020 prior to 3:30 PM
Accepting Electronic Responses Only
Responses Only Submitted Through the Rocky Mountain E-Purchasing System (RMEPS)
https://www.rockymountainbidsystem.com/default.asp
(Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor MUST contact RMEPS to resolve issue prior to the response deadline. 800-835-4603)

PURCHASING REPRESENTATIVE:
Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org
970-244-1545

This solicitation has been developed specifically for a Request for Proposal intended to solicit competitive responses for this solicitation, and may not be the same as previous City of Grand Junction solicitations. All offerors are urged to thoroughly review this solicitation prior to submitting. Submittal by **FAX, EMAIL or HARD COPY IS NOT ACCEPTABLE** for this solicitation.

REQUEST FOR PROPOSAL

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Section

1.0 Administrative Information and Conditions for Submittal

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5.0 Preparation and Submittal of Proposals

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7.0 Solicitation Response Form

REQUEST FOR PROPOSAL

SECTION 1.0: ADMINISTRATIVE INFORMATION & CONDITIONS FOR SUBMITTAL

1.1 Issuing Office: This Request for Proposal (RFP) is issued by the City of Grand Junction. All contact regarding this RFP is directed to:

RFP QUESTIONS:
Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

1.2 Purpose: The purpose of this RFP is to obtain proposals from qualified professional design/engineering firms to provide Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road.

1.3 The Owner: The Owner is the City of Grand Junction, Colorado and is referred to throughout this Solicitation. The term Owner means the Owner or his authorized representative.

1.4 Compliance: All participating Offerors, by their signature hereunder, shall agree to comply with all conditions, requirements, and instructions of this RFP as stated or implied herein. Should the Owner omit anything from this packet which is necessary to the clear understanding of the requirements, or should it appear that various instructions are in conflict, the Offeror(s) shall secure instructions from the Purchasing Division prior to the date and time of the submittal deadline shown in this RFP.

1.5 Submission: Please refer to section 5.0 for what is to be included. ***Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (https://www.rockymountainbidsystem.com/default.asp).*** *This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.)* Please view our "**Electronic Vendor Registration Guide"** at http://www.gjcity.org/business-and-economic-development/bids/ for details. For proper comparison and evaluation, the City requests that proposals be formatted as directed in Section 5.0 "Preparation and Submittal of Proposals." Submittals received that fail to follow this format may be ruled non-responsive. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. **800-835-4603**).

1.6 Altering Proposals: Any alterations made prior to opening date and time must be initialed by the signer of the proposal, guaranteeing authenticity. Proposals cannot be altered or amended after submission deadline.

1.7 Withdrawal of Proposal: A proposal must be firm and valid for award and may not be withdrawn or canceled by the Offeror for sixty (60) days following the submittal deadline date, and only prior to award. The Offeror so agrees upon submittal of their proposal. After award this statement is not applicable.

1.8 Acceptance of Proposal Content: The contents of the proposal of the successful Offeror shall become contractual obligations if acquisition action ensues. Failure of the successful Offeror to accept these obligations in a contract shall result in cancellation of the award and such vendor shall be removed from future solicitations.

1.9 Addenda: All questions shall be submitted in writing to the appropriate person as shown in Section 1.1. Any interpretations, corrections and changes to this RFP or extensions to the opening/receipt date shall be made by a written Addendum to the RFP by the City Purchasing Division. Sole authority to authorize addenda shall be vested in the City of Grand Junction Purchasing Representative. Addenda will be issued electronically through the Rocky Mountain E-Purchasing website at www.rockymountainbidsystem.com. Offerors shall acknowledge receipt of all addenda in their proposal.

1.10 Exceptions and Substitutions: All proposals meeting the intent of this RFP shall be considered for award. Offerors taking exception to the specifications shall do so at their own risk. The Owner reserves the right to accept or reject any or all substitutions or alternatives. When offering substitutions and/or alternatives, Offeror must state these exceptions in the section pertaining to that area. Exception/substitution, if accepted, must meet or exceed the stated intent and/or specifications. The absence of such a list shall indicate that the Offeror has not taken exceptions, and if awarded a contract, shall hold the Offeror responsible to perform in strict accordance with the specifications or scope of services contained herein.

1.11 Confidential Material: All materials submitted in response to this RFP shall ultimately become public record and shall be subject to inspection after contract award. "**Proprietary or Confidential Information"** is defined as any information that is not generally known to competitors and which provides a competitive advantage. Unrestricted disclosure of proprietary information places it in the public domain. Only submittal information clearly identified with the words "***Confidential Disclosure***" and uploaded as a separate document shall establish a confidential, proprietary relationship. Any material to be treated as confidential or proprietary in nature must include a justification for the request. The request shall be reviewed and either approved or denied by the Owner. If denied, the proposer shall have the opportunity to withdraw its entire proposal, or to remove the confidential or proprietary restrictions. Neither cost nor pricing information nor the total proposal shall be considered confidential or proprietary.

1.12 Response Material Ownership: All proposals become the property of the Owner upon receipt and shall only be returned to the proposer at the Owner's option. Selection or rejection of the proposal shall not affect this right. The Owner shall have the right to use all ideas or adaptations of the ideas contained in any proposal received in response to this RFP, subject to limitations outlined in the entitled "Confidential Material". Disqualification of a proposal does not eliminate this right.

1.13 Minimal Standards for Responsible Prospective Offerors: A prospective Offeror must affirmably demonstrate their responsibility. A prospective Offeror must meet the following requirements.

- Have adequate financial resources, or the ability to obtain such resources as required.
- Be able to comply with the required or proposed completion schedule.

- Have a satisfactory record of performance.
- Have a satisfactory record of integrity and ethics.
- Be otherwise qualified and eligible to receive an award and enter into a contract with the Owner.

1.14 Open Records: Proposals shall be received and publicly acknowledged at the location, date, and time stated herein. Offerors, their representatives and interested persons may be present. Proposals shall be received and acknowledged only so as to avoid disclosure of process. However, all proposals shall be open for public inspection after the contract is awarded. Trade secrets and confidential information contained in the proposal so identified by offer as such shall be treated as confidential by the Owner to the extent allowable in the Open Records Act.

1.15 Sales Tax: The Owner is, by statute, exempt from the State Sales Tax and Federal Excise Tax; therefore, all fees shall not include taxes.

1.16 Public Opening: Proposals shall be opened in the City Hall Auditorium, 250 North 5th Street, Grand Junction, CO, 81501, immediately following the proposal deadline. Offerors, their representatives and interested persons may be present. Only the names and locations on the proposing firms will be disclosed.

SECTION 2.0: GENERAL CONTRACT TERMS AND CONDITIONS

2.1. Acceptance of RFP Terms: A proposal submitted in response to this RFP shall constitute a binding offer. Acknowledgment of this condition shall be indicated on the Letter of Interest or Cover Letter by the autographic signature of the Offeror or an officer of the Offeror legally authorized to execute contractual obligations. A submission in response to the RFP acknowledges acceptance by the Offeror of all terms and conditions including compensation, as set forth herein. An Offeror shall identify clearly and thoroughly any variations between its proposal and the Owner's RFP requirements. Failure to do so shall be deemed a waiver of any rights to subsequently modify the terms of performance, except as outlined or specified in the RFP.

2.2. Execution, Correlation, Intent, and Interpretations: The Contract Documents shall be signed by the Owner and Firm. By executing the contract, the Firm represents that they have familiarized themselves with the local conditions under which the Services is to be performed, and correlated their observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by any one, shall be as binding as if required by all. The intention of the documents is to include all labor, materials, equipment, services and other items necessary for the proper execution and completion of the scope of services as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the Owner are, and shall remain, Owner property. They are not to be used on any other project.

2.3. Permits, Fees, & Notices: The Firm shall secure and pay for all permits, governmental fees and licenses necessary for the proper execution and completion of the services. The Firm shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the services. If the Firm observes that any of the Contract Documents are at variance in any respect, he shall

promptly notify the Owner in writing, and any necessary changes shall be adjusted by approximate modification. If the Firm performs any services knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner, he shall assume full responsibility and shall bear all costs attributable.

2.4. Responsibility for those Performing the Services: The Firm shall be responsible to the Owner for the acts and omissions of all his employees and all other persons performing any of the services under a contract with the Firm.

2.5. Payment & Completion: The Contract Sum is stated in the Contract and is the total amount payable by the Owner to the Firm for the performance of the services under the Contract Documents. Upon receipt of written notice that the services is ready for final inspection and acceptance and upon receipt of application for payment, the Owner's Project Manager will promptly make such inspection and, when they find the services acceptable under the Contract Documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Contract Documents. Partial payments will be based upon estimates, prepared by the Firm, of the value of services performed and materials placed in accordance with the Contract Documents. The services performed by Firm shall be in accordance with generally accepted professional practices and the level of competency presently maintained by other practicing professional firms in the same or similar type of services in the applicable community. The services and services to be performed by Firm hereunder shall be done in compliance with applicable laws, ordinances, rules and regulations.

2.6. Protection of Persons & Property: The Firm shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Firm shall erect and maintain, as required by existing safeguards for safety and protection, and all reasonable precautions, including posting danger signs or other warnings against hazards promulgating safety regulations and notifying owners and users of adjacent utilities. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct by the Firm in the execution of the services, or in consequence of the non-execution thereof by the Firm, they shall restore, at their own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring as may be directed, or it shall make good such damage or injury in an acceptable manner.

2.7. Changes in the Services: The Owner, without invalidating the contract, may order changes in the services within the general scope of the contract consisting of additions, deletions or other revisions. All such changes in the services shall be authorized by Change Order/Amendment and shall be executed under the applicable conditions of the contract documents. A Change Order/Amendment is a written order to the Firm signed by the Owner issued after the execution of the contract, authorizing a change in the services or an adjustment in the contract sum or the contract time.

2.8. Minor Changes in the Services: The Owner shall have authority to order minor changes in the services not involving an adjustment in the contract sum or an extension of the contract time and not inconsistent with the intent of the contract documents.

2.9. Uncovering & Correction of Services: The Firm shall promptly correct all services found by the Owner as defective or as failing to conform to the contract documents. The Firm shall bear all costs of correcting such rejected services, including the cost of the Owner's additional services thereby made necessary. The Owner shall give such notice promptly after discover of condition. All such defective or non-conforming services under the above paragraphs shall be removed from the site where necessary and the services shall be corrected to comply with the contract documents without cost to the Owner.

2.10. Acceptance Not Waiver: The Owner's acceptance or approval of any services furnished hereunder shall not in any way relieve the proposer of their present responsibility to maintain the high quality, integrity and timeliness of his services. The Owner's approval or acceptance of, or payment for, any services shall not be construed as a future waiver of any rights under this Contract, or of any cause of action arising out of performance under this Contract.

2.11. Change Order/Amendment: No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All amendments to the contract shall be made in writing by the Owner.

2.12. Assignment: The Offeror shall not sell, assign, transfer or convey any contract resulting from this RFP, in whole or in part, without the prior written approval from the Owner.

2.13. Compliance with Laws: Proposals must comply with all Federal, State, County and local laws governing or covering this type of service and the fulfillment of all ADA (Americans with Disabilities Act) requirements. Firm hereby warrants that it is qualified to assume the responsibilities and render the services described herein and has all requisite corporate authority and professional licenses in good standing, required by law.

2.14. Debarment/Suspension: The Firm herby certifies that the Firm is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Governmental department or agency.

2.15. Confidentiality: All information disclosed by the Owner to the Offeror for the purpose of the services to be done or information that comes to the attention of the Offeror during the course of performing such services is to be kept strictly confidential.

2.16. Conflict of Interest: No public official and/or Owner employee shall have interest in any contract resulting from this RFP.

2.17. Contract: This Request for Proposal, submitted documents, and any negotiations, when properly accepted by the Owner, shall constitute a contract equally binding between the Owner and Offeror. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral, including the Proposal documents. The contract may be amended or modified with Change Orders, Field Orders, or Amendment.

2.18. Project Manager/Administrator: The Project Manager, on behalf of the Owner, shall render decisions in a timely manner pertaining to the services proposed or performed by

the Offeror. The Project Manager shall be responsible for approval and/or acceptance of any related performance of the Scope of Services.

2.19. Contract Termination: This contract shall remain in effect until any of the following occurs: (1) contract expires; (2) completion of services; (3) acceptance of services or, (4) for convenience terminated by either party with a written *Notice of Cancellation* stating therein the reasons for such cancellation and the effective date of cancellation at least thirty days past notification.

2.20. Employment Discrimination: During the performance of any services per agreement with the Owner, the Offeror, by submitting a Proposal, agrees to the following conditions:

2.20.1. The Offeror shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, disability, citizenship status, marital status, veteran status, sexual orientation, national origin, or any legally protected status except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Offeror. The Offeror agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

2.20.2. The Offeror, in all solicitations or advertisements for employees placed by or on behalf of the Offeror, shall state that such Offeror is an Equal Opportunity Employer.

2.20.3. Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.

2.21. Immigration Reform and Control Act of 1986 and Immigration Compliance: The Offeror certifies that it does not and will not during the performance of the contract employ illegal alien services or otherwise violate the provisions of the Federal Immigration Reform and Control Act of 1986 and/or the immigration compliance requirements of State of Colorado C.R.S. § 8-17.5-101, *et.seq.* (House Bill 06-1343).

2.22. Ethics: The Offeror shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official, or agent of the Owner.

2.23. Failure to Deliver: In the event of failure of the Offeror to deliver services in accordance with the contract terms and conditions, the Owner, after due oral or written notice, may procure the services from other sources and hold the Offeror responsible for any costs resulting in additional purchase and administrative services. This remedy shall be in addition to any other remedies that the Owner may have.

2.24. Failure to Enforce: Failure by the Owner at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of the Owner to enforce any provision at any time in accordance with its terms.

2.25. Force Majeure: The Offeror shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions, and acts of God beyond the control of the Offeror, unless otherwise specified in the contract.

2.26. Indemnification: Offeror shall defend, indemnify and save harmless the Owner and all its officers, employees, insurers, and self-insurance pool, from and against all liability, suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the Offeror, or of any Offeror's agent, employee, sub-contractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Offeror shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.

2.27. Independent Firm: The Offeror shall be legally considered an Independent Firm and neither the Firm nor its employees shall, under any circumstances, be considered servants or agents of the Owner. The Owner shall be at no time legally responsible for any negligence or other wrongdoing by the Firm, its servants, or agents. The Owner shall not withhold from the contract payments to the Firm any federal or state unemployment taxes, federal or state income taxes, Social Security Tax or any other amounts for benefits to the Firm. Further, the Owner shall not provide to the Firm any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Owner for its employees.

2.28. Nonconforming Terms and Conditions: A proposal that includes terms and conditions that do not conform to the terms and conditions of this Request for Proposal is subject to rejection as non-responsive. The Owner reserves the right to permit the Offeror to withdraw nonconforming terms and conditions from its proposal prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.

2.29. Ownership: All plans, prints, designs, concepts, etc., shall become the property of the Owner.

2.30. Oral Statements: No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this document and/or resulting agreement. All modifications to this request and any agreement must be made in writing by the Owner.

2.31. Patents/Copyrights: The Offeror agrees to protect the Owner from any claims involving infringements of patents and/or copyrights. In no event shall the Owner be liable to the Offeror for any/all suits arising on the grounds of patent(s)/copyright(s) infringement. Patent/copyright infringement shall null and void any agreement resulting from response to this RFP.

2.32. Venue: Any agreement as a result of responding to this RFP shall be deemed to have been made in, and shall be construed and interpreted in accordance with, the laws of the City of Grand Junction, Mesa County, Colorado.

2.33. Expenses: Expenses incurred in preparation, submission and presentation of this RFP are the responsibility of the company and cannot be charged to the Owner.

2.34. Sovereign Immunity: The Owner specifically reserves its right to sovereign immunity pursuant to Colorado State Law as a defense to any action arising in conjunction to this agreement.

2.35. Public Funds/Non-Appropriation of Funds: Funds for payment have been provided through the Owner's budget approved by the City Council/Board of County Commissioners for the stated fiscal year only. State of Colorado statutes prohibit the obligation and expenditure of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated orders or other obligations that may arise past the end of the stated Owner's fiscal year shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.

2.36. Collusion Clause: Each Offeror by submitting a proposal certifies that it is not party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any and all proposals shall be rejected if there is evidence or reason for believing that collusion exists among the proposers. The Owner may or may not, at the discretion of the Owner Purchasing Representative, accept future proposals for the same service or commodities for participants in such collusion.

2.37. Gratuities: The Firm certifies and agrees that no gratuities or kickbacks were paid in connection with this contract, nor were any fees, commissions, gifts or other considerations made contingent upon the award of this contract. If the Firm breaches or violates this warranty, the Owner may, at their discretion, terminate this contract without liability to the Owner.

2.38. Performance of the Contract: The Owner reserves the right to enforce the performance of the contract in any manner prescribed by law or deemed to be in the best interest of the Owner in the event of breach or default of resulting contract award.

2.39. Benefit Claims: The Owner shall not provide to the Offeror any insurance coverage or other benefits, including Worker's Compensation, normally provided by the Owner for its employees.

2.40. Default: The Owner reserves the right to terminate the contract in the event the Firm fails to meet delivery or completion schedules, or otherwise perform in accordance with the accepted proposal. Breach of contract or default authorizes the Owner to purchase like services elsewhere and charge the full increase in cost to the defaulting Offeror.

2.41. Multiple Offers: If said proposer chooses to submit more than one offer, THE ALTERNATE OFFER must be clearly marked "Alternate Proposal". The Owner reserves the right to make award in the best interest of the Owner.

2.42. Cooperative Purchasing: Purchases as a result of this solicitation are primarily for the Owner. Other governmental entities may be extended the opportunity to utilize the resultant contract award with the agreement of the successful provider and the participating agencies. All participating entities will be required to abide by the specifications, terms, conditions and pricings established in this Proposal. The quantities furnished in this proposal document are for only the Owner. It does not include quantities for any other jurisdiction. The Owner will be responsible only for the award for our jurisdiction. Other

participating entities will place their own awards on their respective Purchase Orders through their purchasing office or use their purchasing card for purchase/payment as authorized or agreed upon between the provider and the individual entity. The Owner accepts no liability for payment of orders placed by other participating jurisdictions that choose to piggy-back on our solicitation. Orders placed by participating jurisdictions under the terms of this solicitation will indicate their specific delivery and invoicing instructions.

2.43. Definitions:

2.43.1. "Offeror" and/or "Proposer" refers to the person or persons legally authorized by the Consultant to make an offer and/or submit a response (fee) proposal in response to the Owner's RFP.

2.43.2. The term "Services" includes all labor, materials, equipment, and/or services necessary to produce the requirements of the Contract Documents.

2.43.3. "Firm" is the person, organization, firm or consultant identified as such in the Agreement and is referred to throughout the Contract Documents. The term Firm means the Firm or his authorized representative. The Firm shall carefully study and compare the General Contract Conditions of the Contract, Specification and Drawings, Scope of Services, Addenda and Modifications and shall at once report to the Owner any error, inconsistency or omission he may discover. Firm shall not be liable to the Owner for any damage resulting from such errors, inconsistencies or omissions. The Firm shall not commence services without clarifying Drawings, Specifications, or Interpretations.

2.43.4. "Sub-Contractor is a person or organization who has a direct contract with the Firm to perform any of the services at the site. The term Sub-Contractor is referred to throughout the contract documents and means a Sub-Contractor or his authorized representative.

2.44. Public Disclosure Record: If the Proposer has knowledge of their employee(s) or sub-proposers having an immediate family relationship with an Owner employee or elected official, the proposer must provide the Purchasing Representative with the name(s) of these individuals. These individuals are required to file an acceptable "Public Disclosure Record", a statement of financial interest, before conducting business with the Owner.

SECTION 3.0: INSURANCE REQUIREMENTS

3.1 Insurance Requirements: The selected Firm agrees to procure and maintain, at its own cost, policy(s) of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by the Firm pursuant to this Section. Such insurance shall be in addition to any other insurance requirements imposed by this Contract or by law. The Firm shall not be relieved of any liability, claims, demands, or other obligations assumed pursuant to this Section by reason of its failure to procure or maintain insurance in sufficient amounts, durations, or types.

Firm shall procure and maintain and, if applicable, shall cause any Sub-Contractor of the Firm to procure and maintain insurance coverage listed below. Such coverage shall be procured and maintained with forms and insurers acceptable to The Owner. All coverage shall be continuously maintained to cover all liability, claims, demands, and other obligations assumed by the Firm pursuant to this Section. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain

such continuous coverage. Minimum coverage limits shall be as indicated below unless specified otherwise in the Special Conditions:

(a) Worker Compensation: Firm shall comply with all State of Colorado Regulations concerning Workers' Compensation insurance coverage.

(b) General Liability insurance with minimum combined single limits of:

ONE MILLION DOLLARS ($1,000,000) each occurrence and
ONE MILLION DOLLARS ($1,000,000) per job aggregate.

The policy shall be applicable to all premises, products and completed operations. The policy shall include coverage for bodily injury, broad form property damage (including completed operations), personal injury (including coverage for contractual and employee acts), blanket contractual, products, and completed operations. The policy shall include coverage for explosion, collapse, and underground (XCU) hazards. The policy shall contain a severability of interests provision.

(c) Comprehensive Automobile Liability insurance with minimum combined single limits for bodily injury and property damage of not less than:

ONE MILLION DOLLARS ($1,000,000) each occurrence and
ONE MILLION DOLLARS ($1,000,000) aggregate

(d) Professional Liability & Errors and Omissions Insurance policy with a minimum of:

ONE MILLION DOLLARS ($1,000,000) per claim

This policy shall provide coverage to protect the Firm against liability incurred as a result of the professional services performed as a result of responding to this Solicitation.

With respect to each of Consultant's owned, hired, or non-owned vehicles assigned to be used in performance of the Services. The policy shall contain a severability of interests provision.

3.2 Additional Insured Endorsement: The policies required by paragraphs (b), and (c) above shall be endorsed to include the Owner and the Owner's officers and employees as additional insureds. Every policy required above shall be primary insurance, and any insurance carried by the Owner, its officers, or its employees, or carried by or provided through any insurance pool of the Owner, shall be excess and not contributory insurance to that provided by Firm. The Firm shall be solely responsible for any deductible losses under any policy required above.

SECTION 4.0: SPECIFICATIONS/SCOPE OF SERVICES

4.1. General/Background:

The City of Grand Junction is seeking proposals from qualified consultants to provide engineering design, plans, specifications and cost estimate preparation, and pre-

construction bid support services for G Road Bridge over Leach Creek. All consultants submitting proposals shall be pre-qualified with CDOT for BR – Bridge Design, HD – Highway and Street Design, and HY – Hydraulics Design.

In Fall of 2019, City of Grand Junction voters approved Ballot Initiative 2A to authorize construction of Transportation Capacity Upgrades throughout the City. One of the first projects on the list is the widening of the 24 Road corridor and G Road with the addition of a roundabout at the intersection of the two roads. North Leach Creek is a drainageway that runs adjacent to and on the east side of 24 Road, from north to south. G Road currently crosses N Leach Creek carried by the minor bridge structure GRJM-G.0-24.01 (see appendix for latest bridge inspection).

The City seeks to hire a Consulting Civil Engineering firm or team to provide all services necessary to perform design engineering of the replacement bridge to carry the new roundabout over N Leach Creek.

Therefore, the City of Grand Junction Purchasing Department is requesting qualifications accompanied by sealed cost proposals from Consulting Civil Engineers to provide design services, prepare construction drawings, assist in development of bid documents, and receive USACE and any other regulatory approval, if applicable, for the G Road Bridge over N Leach Creek Project. The design project calls for the following:

- Identification of up to 3 replacement alternatives to be evaluated by the City and appropriate stakeholders. Alternatives shall be presented in a Structure Selection Report which includes horizontal and vertical alignment of the proposed bridge widening or replacement, Engineers Estimate of Probable Cost, State and Federal Permitting requirements, potential constraints to construction schedule or other limiting factors, and potential utility conflicts
- Preliminary Design Review (FIR) with plans of chosen alternative for review by City and stakeholders (including but not limited to: US Army Corps of Engineers, Xcel Energy, Grand Valley Power, Ute Water, City of Grand Junction Sewer and Stormwater utilities)
- Final Design Review (FOR) with Construction Drawings, Standard and Project Specifications, and Probable Opinion of Construction Costs for review by City and stakeholders
- Preparation of construction plans and documents to be included in the Solicitation for Construction Documents published by the City. Assistance with bidding services includes aiding the City Project Manager in responding to questions and completing the addenda as part of the contractor selection process.

As a result, the City of Grand Junction is requesting proposals from qualified applicants to complete design, specifications, and permitting requirements for construction in winter of 2020/2021 prior to irrigation startup April 1, 2021.

4.2. Special Conditions/Provisions:

4.2.1 Price/Fees: Project pricing shall be all inclusive, to include, but not be limited to: labor, materials, equipment, travel, design, drawings, engineering work, shipping/freight, licenses, permits, fees, etc.

Provide a not to exceed cost using Solicitation Response Form found in Section 7, accompanied by a complete list of costs breakdown. **Firm shall provide Fee Proposal electronically with their bid submission as a separate electronic file titled "Fee Proposal."**

All fees will be considered by the Owner to be negotiable. The fee proposal will not be opened by the Owner until a prospective awarded firm has been determined. Then, only the fee proposal of the successful preferred proposer will be opened. However, the Owner reserves the right to open the competing fee proposals and consider their contents if a contract agreement cannot be negotiated with the number one selected firm or if it is considered in the best interest of the Owner to do so.

4.2.2 Codes: Contractor shall ensure that project design, scope and specifications meet all Federal, State, County, and City Codes.

Consultant is responsible for identifying, contacting and acquiring all necessary U.S. Army Corps permits as determined for the scope of bridge construction.

Consultant is responsible for any and all wetlands boundary survey reports necessary for the U.S. Army Corp Wetlands delineation mapping.

4.3. Specifications/Scope of Services:

Consultant Responsibilities: The scope of work shall include the following:

Task 1 – Project Management and Coordination:

Project Initiation: Develop and prepare a project schedule to meet the proposed construction time frame and assign tasks. The schedule shall show individual tasks described in the scope of work for the project and identify key milestone dates. The Consultant Project Manager (Consultant PM) shall maintain and update the project schedule as the work proceeds. The Consultant's PM will be assigned to this project for the duration of the work.

Work Task Coordination: The Consultant PM shall assign and coordinate all work tasks being accomplished, including those performed by sub-consultants, to ensure project work is completed on schedule.

Project Team Coordination: The City PM and the Consultant PM shall maintain ongoing communication about the project on a frequent and regular basis. Each PM shall provide the other with:

- Written synopsis of their respective contacts (both telephone or in person) with others
- Copies of pertinent written communications, including electronic (email) correspondence
- Early identification of potential problems

Progress Meetings: The City and Consultant shall meet, either in person or by conference calls (Zoom or similar video) at regularly scheduled Project Working Group Meetings held at approximate two-week intervals throughout the project. Meetings shall include Consultant PM, City PM and other stakeholders as identified and required during the design progress. The Project Working Group meetings shall be used to coordinate the work effort and resolve any outstanding issues or problems. The Meetings shall focus on the following topics:

- Activities completed since last meeting
- Problems encountered or anticipated
- Late activities or activities slipping behind schedule
- Solutions for unresolved or newly identified problems
- Schedule of upcoming activities
- Information on items required, or comments from State and Federal agencies.

The Consultant PM shall prepare a written summary report of the general discussion held, including all action items assigned. The scope assumes eight (8) Project Work Group Meetings via conference call.

Reporting Requirements: The Consultant PM shall provide the following on a routine basis:

- Bi-weekly status reports (percent of design components complete) and monthly billings.

Agency Coordination and Permit Acquisition: The consultant shall coordinate with appropriate regulatory agencies to determine and obtain any required permits for the selected design alternative prior to construction. The Consultant shall initiate communication with State and Federal agencies regarding the intent of the project and shall submit appropriate permit applications on behalf of the City. Permit/regulatory requirements may be used as an aid to select the recommended design alternative and shall therefore be summarized in the Structure Selection Report (Task 2).

Agency Coordination assumes up to 3 in-person meetings with regulatory agencies. The Consultant shall include City PM on all correspondence with regulatory agencies and must copy City PM on all email correspondence.

Task 2 – Preliminary Design Plans (FIR) and Structure Selection Report

The Consultant will prepare preliminary/conceptual design plans and a structure selection report for up to 3 bridge widening or replacement alternatives. Plan set will be at 30% complete level and will include, at a minimum the following:

- Plan, foundation layout and cross section of bridge replacement for up to 3 alternatives based on Geotechnical Investigation (to be provided by City)
- Plans shall be in CDOT format with City of Grand Junction title block
- All design is to be coordinated with the City's roadway designer, especially the vertical roadway alignment
- Hydraulic considerations for each defined alternative

- Bank stability and scour protection for each defined alternative if needed
- Regulatory requirements for each defined alternative
- Subsurface Utilities Engineering in accordance with current laws (utility conflicts must be identified and relocation/removal plans must be coordinated through the appropriate utility company)
- Any other pertinent detail that may weigh the decision of one alternative over another
- Engineer's Opinion of Probable Cost for each design alternative.

Structure Selection Report shall be per CDOT requirements, incorporating but not limited to any other information that is requested in this section.

The Structure Selection Report and Preliminary Design Plans will be delivered to the City in electronic format (PDF). After a review of the design memo, the Consultant and City will meet to review and select the preferred alternative to be taken to final design and construction.

City Provided Materials: The City will provide the following:

- Proposed G Road and 24 Road roundabout alignment and linework
- Property ownership and property line information for the project (any ROW acquisition will be handled by the City)
- As-built drawings of existing facilities as available
- Previous hydraulic report for N Leach Creek
- GIS data
- Survey, Base mapping and existing plan files
- Geotechnical Investigation Report
- Proposed roadway alignment (vertical and horizontal) for G Road widening and roundabout at 24 Road
- Stormwater Management Plan (SWMP) for the entire project including the bridge for the CDPHE and MS4 permits, including the submittal to these entities.

Task 3: Final Design Plans and Project Specifications

The Consultant shall prepare final design plans, specifications and final design report for the selected alternative. Prior to final design, Consultant shall provide 90% design review plans to the City and associated regulatory agencies for comment. Review of the documents and plans will be completed by the City PM. Comments shall be incorporated into Final Design Plans and Specifications that will be appended into the Bid Documents. Final Plan and report shall be stamped by a professional engineer registered in the State of Colorado. All submittals shall be in a PDF format, with final electronic files (e.g. AutoCAD files) provided at the close of the design task. This task will also include responding to any comments from review by the regulatory agencies involved in this project. Any fees paid to the said agencies will be paid by the City of Grand Junction.

90% design submittal shall include Engineers Opinion of Probable cost for the selected design alternative. The Final Design documents shall include Engineers Opinion of

Probable Cost and a bid schedule that can be incorporated into the Advertisement for Construction Documents.

Advertisement for Construction should be published on or about 20 September 2020 to allow for construction to occur during the winter of 2020/2021 prior to irrigation startup April 1, 2021.

Reproduction: The Consultant will provide electronic copies of the final construction drawings and contract documents (PDF and DWG format).

Authentication: The Consultant's Professional Engineer responsible for the project shall affix their stamp and signature to the final drawings, bid documents and design report.

Permitting: The Consultant shall assist in the coordination with any and all regulatory agencies regarding plan approval and site application amendment. Any costs associated with the amendment or other permitting fees will be the responsibility of the owner.

Task 4: Construction Phase Services

Bidding Phase: After Completion of the plans, the City will bid the project out, however the consultant shall be available for technical questions and provide to the City appropriate addenda. Consultant shall participate in the pre-bid meeting, however presence at the bid opening is not required.

Construction Phase: The City will provide onsite, full time inspection for the project. Resident engineering shall be provided by the Consultant on an as-needed basis, but no less than once every month (2 visits). Consultant resident engineer shall also assist in reviewing and approving all shop drawings, materials submittals, etc. The selected Consultant shall also complete as-built plans and assist the City PM with design change requests.

4.4. Attached Documents:

1. Project location maps
2. Bridge Inspection Report

4.5. RFP Tentative Time Schedule:

• Request for Proposal available:	June 10, 2020
• Inquiry deadline, no questions after this date:	June 23, 2020
• Addendum Posted:	June 25, 2020
• Submittal deadline for proposals:	July 2, 2020
• Owner evaluation of proposals:	July 6-9, 2020
• Interviews (if required)	July 16, 2020
• Final selection:	July 20, 2020
• Contract execution:	July 23, 2020

4.6. Questions Regarding Scope of Services:

Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

SECTION 5.0: PREPARATION AND SUBMITTAL OF PROPOSALS

Submission: ***Each proposal shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (https://www.rockymountainbidsystem.com/default.asp).*** *This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.)* Please view our "**Electronic Vendor Registration Guide"** at http://www.gjcity.org/BidOpenings.aspx for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline **800-835-4603**). For proper comparison and evaluation, the City requests that proposals be formatted as directed in Section 5.0 "Preparation and Submittal of Proposals." Offerors are required to indicate their interest in this Project, show their specific experience and address their capability to perform the Scope of Services in the Time Schedule as set forth herein. For proper comparison and evaluation, the Owner requires that proposals be formatted **A** to **F**:

A. **Cover Letter:** Cover letter shall be provided which explains the Firm's interest in the project. The letter shall contain the name/address/phone number/email of the person who will serve as the firm's principal contact person with Owner's Contract Administrator and shall identify individual(s) who will be authorized to make presentations on behalf of the firm. The statement shall bear the signature of the person having proper authority to make formal commitments on behalf of the firm. By submitting a response to this solicitation the Firm agrees to all requirements herein.

B. **Qualifications/Experience/Credentials:** Proposers shall provide their qualifications for consideration as a contract provider to the City of Grand Junction and include prior experience in similar projects.

C. **Strategy and Implementation Plan:** Describe your (the firm's) interpretation of the Owner's objectives with regard to this RFP. Describe the proposed strategy and/or plan for achieving the objectives of this RFP. The Firm may utilize a written narrative or any other printed technique to demonstrate their ability to satisfy the Scope of Services. The narrative should describe a logical progression of tasks and efforts starting with the initial steps or tasks to be accomplished and continuing until all proposed tasks are fully described and the RFP objectives are accomplished. Include a **time schedule** for completion of your firm's implementation plan and an estimate of time commitments from Owner staff.

D. **References:** A minimum of three (3) **references** with name, address, telephone number, and email address that can attest to your experience in projects of similar scope and size.

E. **Fee Proposal:** Provide a not to exceed cost using Solicitation Response Form found in Section 7, accompanied by a complete list of costs breakdown. **Firm shall provide Fee Proposal electronically with their bid submission as a separate electronic file titled "Fee Proposal."**

F. **Additional Data (optional):** Provide any additional information that will aid in evaluation of your qualifications with respect to this project.

SECTION 6.0: EVALUATION CRITERIA AND FACTORS

6.1 Evaluation: An evaluation team shall review all responses and select the proposal or proposals that best demonstrate the capability in all aspects to perform the scope of services and possess the integrity and reliability that will ensure good faith performance.

6.2 Intent: Only respondents who meet the qualification criteria will be considered. Therefore, it is imperative that the submitted proposal clearly indicate the firm's ability to provide the services described herein.

Submittal evaluations will be done in accordance with the criteria and procedure defined herein. The Owner reserves the right to reject any and all portions of proposals and take into consideration past performance. The following parameters will be used to evaluate the submittals (**with weighted values**):

- Responsiveness of Submittal to the RFP **(1)**
  (Contractor has submitted a proposal that is fully comprehensive, inclusive, and conforms in all respects to the Request for Proposals (RFP) and all of its requirements, including all forms and substance.)
- Understanding of the Project and Objectives **(2)**
  (Contractor's ability to demonstrate a thorough understanding of the City's goals pertaining to this specific project.)
- Experience **(4)**
  (Contractor's proven proficiency in the successful completion of similar projects.)
- Strategy & Implementation Plan **(3)**
  (Contractor has provided a clear interpretation of the City's objectives in regard to the project, and a fully comprehensive plan to achieve successful completion. See Section 5.0 Item C. – Strategy and Implementation Plan for details.)

Owner also reserves the right to take into consideration past performance of previous awards/contracts with the Owner of any vendor, Firm, supplier, or service provider in determining final award(s).

The Owner will undertake negotiations with the top rated firm and will not negotiate with lower rated firms unless negotiations with higher rated firms have been unsuccessful and terminated.

6.3 Oral Interviews: Interviews are not anticipated for this solicitation process. However, the Owner reserves the right to invite the most qualified rated proposer(s) to participate in oral interviews, if needed.

6.4 Award: Firms shall be ranked or disqualified based on the criteria listed in Section 6.2. The Owner reserves the right to consider all of the information submitted and/or oral presentations, if required, in selecting the project Firm.

SECTION 7.0: SOLICITATION RESPONSE FORM

RFP-4802-20-DH Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road

*Offeror must submit entire Form completed, dated and signed***.**

1) **Not to exceed cost to provide design services for the Professional Engineering Services for 24 Road & G Road - N. Leach Creek Bridge to include, but not limited to: labor, materials, equipment, travel, design, drawings, engineering work, shipping/freight, licenses, permits, fees, etc. per specifications:**

NOT TO EXCEED COST $_____

WRITTEN:_____dollars.

The Owner reserves the right to accept any portion of the services to be performed at its discretion

---

The undersigned has thoroughly examined the entire Request for Proposals and therefore submits the proposal and schedule of fees and services attached hereto.

This offer is firm and irrevocable for sixty (60) days after the time and date set for receipt of proposals.

The undersigned Offeror agrees to provide services and products in accordance with the terms and conditions contained in this Request for Proposal and as described in the Offeror's proposal attached hereto; as accepted by the Owner.

Prices in the proposal have not knowingly been disclosed with another provider and will not be prior to award.

- Prices in this proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a proposal for the purpose of restricting competition.
- The individual signing this proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-903544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of _____ percent of the net dollar will be offered to the Owner if the invoice is paid within _____ days after the receipt of the invoice.

RECEIPT OF ADDENDA: the undersigned Firm acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents. State number of Addenda received: _____

It is the responsibility of the Proposer to ensure all Addenda have been received and acknowledged.

_____	_____
Company Name – (Typed or Printed)	Authorized Agent – (Typed or Printed)
_____	_____
Authorized Agent Signature	Phone Number
_____	_____
Address of Offeror	E-mail Address of Agent
_____	_____
City, State, and Zip Code	Date

CITY OF Grand Junction COLORADO

Purchasing Division

ADDENDUM NO. 1

DATE: **June 10, 2020**
FROM: **City of Grand Junction Purchasing Division**
TO: **All Offerors**
RE: **Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road RFP-4802-20-DH**

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. Please see the attached Project Location Maps, and Bridge Inspection Report.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado

City of Grand Junction



0 2.25 4.5 mi

Printed: 5/13/2020

1 inch equals 3,009 feet

Scale: 1:36,112

CITY OF Grand Junction COLORADO GEOGRAPHIC INFORMATION SYSTEM

CITY OF GRAND JUNCTION
MINOR BRIDGE INSPECTION REPORT

IDENTIFICATION and LOCATION:

Structure Name: GRJM-G.0-24.01

Facility Carried: G Road

Feature Intersected: Leach Creek

Latitude: 39° 6’ 23.0” Longitude: 108° 36’ 29.0”

DESCRIPTION OF STRUCTURE: Year Built: 1989

Cast-in-place concrete deck on steel wide flange girders.

Total Length: 20’6” Out to Out Width: 62’10”

SUMMARY OF INSPECTION:

The overall condition of the bridge is GOOD. The primary problem is debris caught beneath bridge on utilities.

ITEMS REQUIRING EXPEDITED OR CRITICAL REVIEW:

None.

INSPECTION DETAILS:

Inspection Date: 3/13/18

Team Leader: Paul J. Jordan Assistant Inspector: Brian J. Inglis

Weather: 55° clear light breeze

Type of Inspection: Routine Report Prepared by: Short Elliott Hendrickson Inc.

Lead Inspector: Paul J. Jordan

SEH
Building a Better World for All of Us®

Signature

RECOMMENDED MAINTENANCE/REPAIRS:

REASON*/ PRIORITY**	DESCRIPTION
R/C	Clean debris from beneath bridge.
R/C	Fill voids where W-beam back wall is missing.
H/C	Install approach rails that meet AASHTO/CDOT standards.

*H = Health & Safety R = Resource Protection M = Mission
**E = Emergency C = Critical N = Non-critical

CONDITION RATINGS AND REMARKS

CONDITION RATING		REMARKS
58. DECK	**7**	
DECK SLAB	G	7" asphalt on 6 ½" concrete deck. Minor efflorescence between girders B and C.
WEARING SURFACE	F	Asphalt. Few discontinuous transverse cracks. Cracks over each abutment.
CURBS, SIDEWALKS, MEDIAN	G	Sidewalks on both sides. Shrinkage cracks and minor scaling. Minor undermining at southeast.
BRIDGE RAILS	G	Steel posts and rails on decorative concrete parapet. Shrinkage cracks.
DRAINS AND DRAINAGE	G	None, surface.
EXPANSION JOINTS		None.
UTILITIES	G	6 utility lines.
OTHER		
59. SUPERSTRUCTURE	**7**	
GIRDERS	G	(22) painted steel girders. Spotty light rusting with paint faded on girders G-P (original section). Girders G and P are W 12 x 58 and remaining girders are W 12 x 50.
BEARINGS	G	
DIAPHRAGMS AND BRACING	G	At ends.
PAINT	G	
DEFLECTIONS AND/OR VIBRATION	G	
ALIGNMENT	G	
OTHER		
60. SUBSTRUCTURE	**7**	
ABUTMENT WALL	F	Precast concrete panels between steel H-piles. Cracks on (2) new panels near northwest and southeast corners. Original panels have settlement, more prominent at A2.
ABUTMENT BACKWALL	G	W-beam in original section but doesn't extend to new section. Not visible in new sections. Void behind and between piles near ends of old sections due to lack of backwall.
CAP AND/OR BEARING SEAT	G	8" by 8" steel H-cap with vertical stiffeners at each abutment.
PILES AND/OR COLUMNS	F	(12) 8" by 8" steel H-piles at each abutment. Flaking rust at waterline throughout.
FOUNDATIONS	G	
WINGWALLS	G	Steel H-piles with precast panels between piles. Flaking rust on piles below waterline.
EROSION AND/OR SCOUR	G	
SETTLEMENT OR DEFLECTION	G	
SLOPE PROTECTION	G	
OTHER	F	Several trees and logs caught under bridge.

CONDITION RATINGS AND REMARKS (Continued)

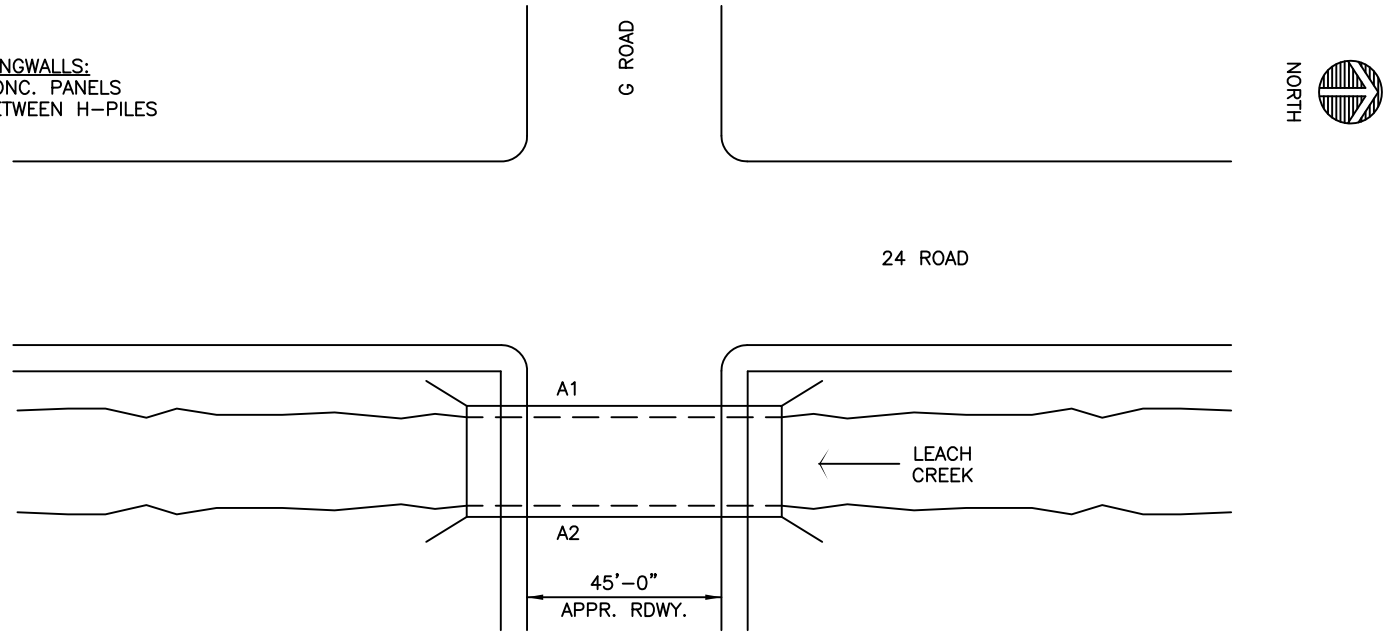
CONDITION RATING		REMARKS
61. CHANNEL	**5**	
ALIGNMENT	G	Straight, manmade channel.
EROSION AND/OR SCOUR	G	
CHANNEL PROTECTION	F	
WATERWAY OBSTRUCTIONS	P	Several utility lines under bridge catch debris.
ADEQUACY OF OPENING	P	Debris caught on girders.
NORMAL VELOCITY		
STREAMBED COMPOSITION		Silt.
OTHER		
72. APPROACH ALIGNMENT	**7**	
APPROACH GUARDRAIL		None.
SURFACING	G	Asphalt. Few longitudinal and transverse cracks.
EROSION	G	
SETTLEMENT	G	Slight bump onto bridge.
SIGNS		None.
ALIGNMENT	G	Intersection immediately west of bridge.
OTHER		

IF A PARTIAL INSPECTION WAS PERFORMED, LIST THE PORTIONS OF THE BRIDGE THAT WERE INSPECTED:

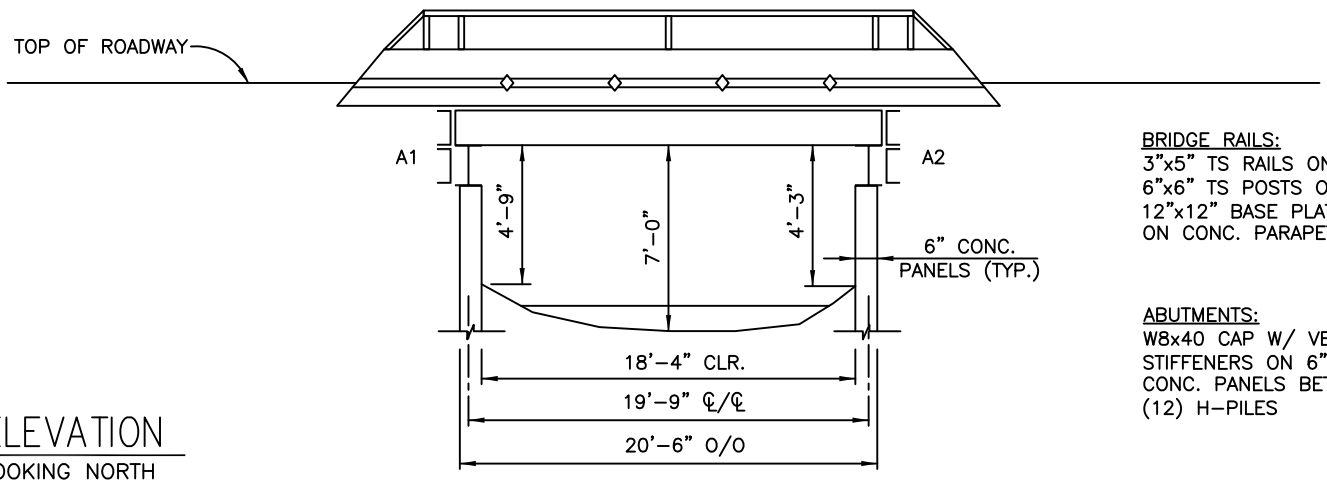
Short Elliott Hendrickson, Inc.
2000 S. Colorado Blvd., #6000
Denver, CO 80222-7938
(720) 540-6800 (800) 490-4966
Fax (303) 753-1510

GRJM-G.Ø-24.Ø1
MARCH 13, 2018

WINGWALLS:
CONC. PANELS
BETWEEN H–PILES



PLAN

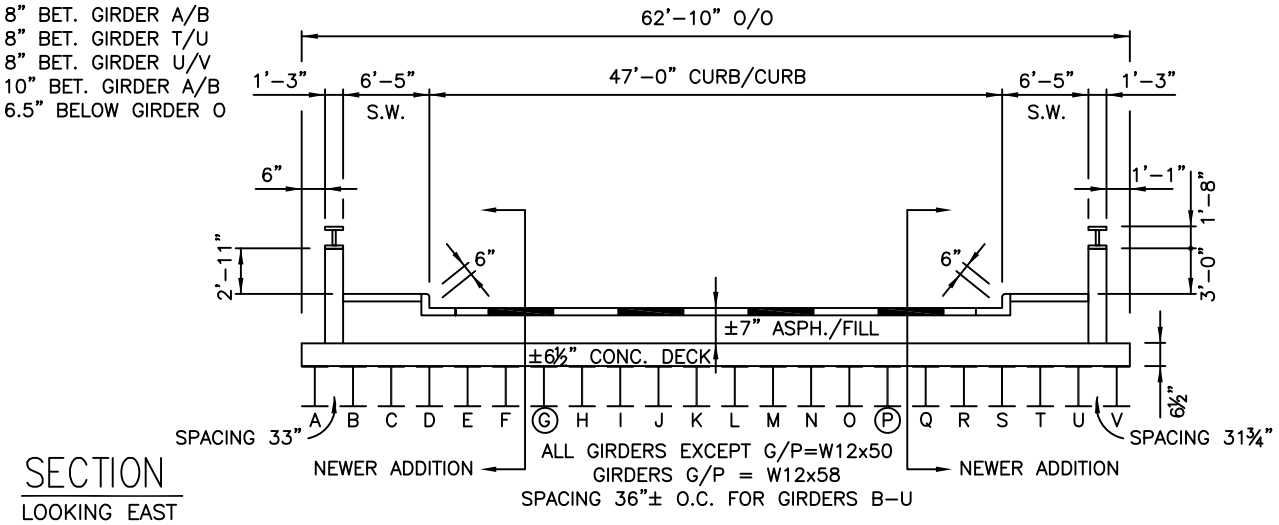


BRIDGE RAILS:
3"x5" TS RAILS ON
6"x6" TS POSTS ON
12"x12" BASE PLATE
ON CONC. PARAPET

ABUTMENTS:
W8x40 CAP W/ VERT.
STIFFENERS ON 6"
CONC. PANELS BETWEEN
(12) H–PILES

ELEVATION
LOOKING NORTH

UTILITY PIPE:
2.5" BELOW GIRDER G
8" BET. GIRDER A/B
8" BET. GIRDER T/U
8" BET. GIRDER U/V
10" BET. GIRDER A/B
6.5" BELOW GIRDER O



SECTION
LOOKING EAST



View Down Centerline of Roadway Looking West



View of Bridge Side Elevation Looking Downstream



View of Bridge Side Elevation Looking Upstream



General View of Underside of Bridge Looking East



View Looking Upstream



View Looking Downstream



Transverse Crack in Asphalt Typical along Top of Abutments



Efflorescence on Underside of Deck in Bay B at East Abutment



Typical Flaking Rust on Exposed Flange of Abutment Pile



Large Logs in Channel below Bridge and Resting on Girders



Debris Lodged above Utility at North Side of Bridge



Sticks and Debris Lodged above Utilities at South Side

CONDITION RATING OF NBI ITEMS 58 (DECK), 59 (SUPERSTRUCTURE), 60 (SUBSTRUCTURE)

N…… Not applicable.
9……..Excellent Condition.
8……..Very Good Condition-no problems noted.
7……..Good Condition-some minor problems.
6……..Satisfactory Condition-structural elements show some minor deterioration.
5……..Fair Condition-all primary structural elements are sound but may have minor section loss, cracking or spalling.
4……..Poor Condition-advanced section loss, deterioration, spalling or scour.
3……..Serious Condition-loss of section, deterioration, spalling or scour have seriously affected primary structural components. Local failures are possible. Fatigue cracks in steel or shear cracks in concrete may be present.
2……..Critical Condition-Advanced deterioration of primary structural elements. Fatigue cracks in steel or shear cracks in concrete may be present or scour may have removed substructure support. Unless closely monitored it may be necessary to close the bridge until corrective action is taken.
1……..Imminent Failure Condition – major deterioration or section loss present in critical structural components or obvious vertical/horizontal movement affecting structure stability. Bridge closed but corrective action may put back in light service.
0……..Failed Condition-out of Service-beyond corrective action.

CONDITION RATING OF EACH MEMBER OR ELEMENT

NA	-Not applicable.
G = GOOD	-Element is in new or good condition.
F = FAIR	-Element is still performing the function for which it was intended but may need maintenance.
P = POOR	-Element is still performing the function for which it was intended but is in need of repairs.

CITY OF Grand Junction COLORADO

Purchasing Division

ADDENDUM NO. 2

DATE: June 22, 2020
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road RFP-4802-20-DH

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. Q. Are there any current and project traffic counts available?

   A. No.

2. Q. Is there a crash analysis report?

   A. No.

3. Q. Are “As-Builts” available at this time?

   A. Yes, see attached.

4. Q. What are the project scope limits on G Road and 24 Road?

   A. The bridge design project is limited to the area of G Road crossing North Leach Creek.

5. Q. Can the existing roundabout alignment indicated in the RFP be made available now?

   A. The roundabout linework will be included in an addendum to this solicitation.

6. Q. Has the road overtopped from N. Leach Creek and if so, are flooding history records available?

   A. No, we are not aware of any historic flooding of this crossing. The LOMR from FEMA will be included in this addendum for information.

7. Q. Does the City anticipate a section 404 permit?

A. Yes.

8. Q. Are Environmental Clearances required?

A. At this time, only the 404 permit is required.

9. Q. Any state or federal funding tied to this project?

A. The G Road bridge construction does not have any state or federal funding.

10. Q. Is the survey and base mapping files recent or does the consultant need to survey?

A. All survey will be provided by the City.

11. Q. Is there cross sectional survey information of the creek for the bridge hydraulics?

A. Survey information will be provided by the City to the selected consultant.

12. Q. Is SUE required?

A. Yes.

13. Q. Is Landscaping required?

A. Minor landscaping (reseeding at the end of the project) will be required.

14. Q. To assist us in understanding and developing a proposal for the subject RFP, I am requesting the following documents:

1. Hydraulics Report,
2. Geotechnical Investigation Report,
3. Plan & Profile of the proposed roundabout and G Road in the vicinity of the North Leach Creek channel

as noted in Section 4.3 of the RFP (page 16, City Provided Materials).

A. 1. This information will be given to the awarded firm.
2. This information will be given to the awarded firm.
3. Some of this is included with this addendum.

15. The following <u>additional</u> scope is being added to this solicitation:

4.1 General/Background:

The City of Grand Junction has applied for funding from CDOT as part of the Multi-modal Opportunity Fund to design and construct a bicycle path along 24 Road. The proposed trail will connect the existing trail north of F 1/2 Road to Canyon View Park. This trail will cross the existing Leach Creek drainageway and G Road before connecting to the Park.

The selected Consulting Civil Engineering firm or team shall provide all services necessary to perform design engineering of the new bridge to carry the new bike path over Leach Creek and the new underpass to cross G Road near Canyon View Park.

The design project for the two bike path crossings calls for the following:

- Identification of up to 2 structure alternatives at each crossing to be evaluated by the City (with oversight by CDOT) and appropriate stakeholders. Alternatives shall be presented in a Structure Selection Report which includes horizontal and vertical alignment of the proposed structures, Engineers Estimate of Probable Cost, State and Federal Permitting requirements, potential constraints to construction schedule or other limiting factors, and potential utility conflicts

- Preliminary Design Review (Field Inspection Review, FIR) with plans of chosen alternative for review by City and stakeholders (including but not limited to: US Army Corps of Engineers, Xcel Energy, Grand Valley Power, Ute Water, City of Grand Junction Sewer and Stormwater utilities, and CDOT)

- Final Design Review (Final Office Review, FOR) with Construction Drawings, Standard and Project Specifications, and Probable Opinion of Construction Costs for review by City and stakeholders

- Preparation of construction plans and documents to be included in the Solicitation for Construction Documents published by the City. Assistance with bidding services includes aiding the City Project Manager in responding to questions and completing the addenda as part of the contractor selection process.

This additional scope for the design of the bridge structures of the bike path shall be kept separate from the G Road bridge design project since the bike path project may be partially funded by CDOT. This includes all cost estimates and billing during the design must be submitted to the City as separate files.

The proposed design schedule for the bike path bridge and underpass will lag behind the schedule for the G Road bridge design.

4.2 Special Conditions/Provisions

4.2.1 Price/Fees: Project pricing shall be all inclusive, to include, but not be limited to: labor, materials, equipment, travel, design, drawings, engineering work, shipping/freight, licenses, permits, fees, etc.

Provide a not to exceed cost using Solicitation Response Form found in Section 7, accompanied by a complete list of costs breakdown.

This additional scope pricing for the 24 Road Bike Path Bridge and Underpass design shall be submitted **separately** from the G Road Bridge design.

Firm shall provide Fee Proposals electronically with their bid submission as a separate electronic file titled "Fee Proposal G Road Bridge" and "Fee Proposal 24 Road Bike Path Bridge and Underpass."

All fees will be considered by the Owner to be negotiable. The fee proposal will not be opened by the Owner until a prospective awarded firm has been determined. Then, only the fee proposal of the successful preferred proposer will be opened. However, the Owner reserves the right to open the competing fee proposals and consider their contents if a contract agreement cannot be negotiated with the number one selected firm or if it is considered in the best interest of the Owner to do so.

4.3 Specifications/Scope of Services:

Task 2 – Preliminary Design Plans (FIR) and Structure Selection Report

The Consultant will prepare preliminary/conceptual design plans and a Structure Selection Report for up to two (2) pedestrian bridge alternatives and up to two (2) underpass alternatives. The plan set for the bike path structures shall be separate from the plan set for the G Road bridge plan set, and will include at 30% complete level at a minimum the following:

- Plan, Foundation Layout and Cross-section of pedestrian bridge and underpass for up to two (2) alternatives based on the Geotechnical Investigation to be provided by the City.
- Plans shall follow CDOT format with City of Grand Junction title block.
- All design is to be coordinated with the City's bike path designer, both horizontal and vertical alignments.
- Hydraulic considerations for each defined alternative of the bike path pedestrian bridge.
- Bank stability and scour protection for each defined alternative if needed.
- Regulatory requirements for each defined alternative.
- Storm drainage shall be addressed at this level. MS4 stormwater design criteria are to be followed. A drainage report may be required depending on the structure selected.
- A FIR meeting with the City and CDOT is required. This meeting will be separate from the FIR meeting for the G Road Bridge.
- Any other pertinent detail that may weigh the decision of one alternative over another.
- Engineer's Opinion of Probable Cost for each design alternative.

The City will provide the following:

- Proposed 24 Road Bike Path alignment, linework, and Civil3D surfaces.
- Property ownership and property line information for the project (any ROW acquisition will be handled by the City)
- As-built drawings of existing facilities as available
- Previous hydraulic report for Leach Creek
- GIS data
- Survey, Base mapping and existing plan files
- Geotechnical Investigation Report

Task 3 – Final Design Plans and Project Specifications

In addition to the requirements in the original Scope of Services in the Solicitation, the Consultant shall keep the plans and specifications for the bike path structures separate from the G Road Bridge Final Design plans and specifications.

A FOR meeting with the City and CDOT is required (including a final cost estimate of the structures). This meeting will be separate from the FOR meeting for the G Road Bridge.

Task 4 – Construction Phase Services

The Consultant shall provide services as noted in the original solicitation during the pre-construction and construction phase for these two additional structures.

4.4 Attached Documents:

Bike Path Alignment (Preliminary 30% plans)

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado



VICINITY MAP

0 1250 2500

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S

Sheet Index

1	Cover Sheet
2	Standard Abbreviations, Legend, & Symbols
3	Summary of Approximate Quantities
4	Project Control Map
5–8	Typical Cross Sections
9–12	Storm Drain Plan and Profiles
13–58	Improvement Plan
59–99	Road Profile
100–114	Road Cross Sections

811 Know what's **below.** **Call** before you dig.

NOTE:
NOTIFY AFFECTED UTILITY VENDOR 48 HOURS PRIOR TO EXCAVATIONS THAT WILL EXPOSE UTILITY LINES. THE COVER SHEET WILL HAVE A LISTING OF UTILITY VENDORS AND TELEPHONE NUMBERS.

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SEE PLAN FOR SCALE INFO

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
30 PERCENT PROGRESS PLANS
COVER

1

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ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C,G,& SW	CURB, GUTTER & SIDEWALK
℄	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
℄	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

LEGEND

BSWMP
DRAINAGE BASIN BOUNDARY

BSWMP
ANCHORED STRAW BALES — ASB ASB ASB ASB ASB ASB ASB

BSWMP
SILT FENCE — SF SF SF SF SF SF SF

BUILDING

CONCRETE CURB AND GUTTER — 2' CURB AND GUTTER

CONCRETE CURB,GUTTER, & SIDEWALK — 7' C, G, & SW

CONCRETE DITCH — CONCRETE

CONCRETE SIDEWALK — 4' SW

CULVERT — 18" RCP

EARTH DITCH — EARTH EARTH EARTH

EDGE OF GRAVEL

EDGE OF PAVEMENT

FENCE (HT & MATL NOTED) — 6' CHAINLINK

GUARD RAIL

HATCHING:
INDICATES ASPHALT REMOVAL

HATCHING:
INDICATES CONCRETE REMOVAL

HATCHING:
INDICATES STAGING AREA — ~STAGING AREA~

LINE (CENTER OF IMPROVEMENTS) — CENTERLINE

LINE (CITY LIMITS) — CITY LIMITS

LINE (CONTROL) — CONTROL LINE

LINE (EASEMENT)

LINE (MONUMENT/SECTION) — MONUMENT/SECTION LINE

LINE (PROPERTY)

LINE (RIGHT OF WAY)

MATCH LINE — MATCH LINE

PIPE (IRRIGATION) — 4" IRR

PIPE (SIPHON) — 4" SIPHON

PROPOSED CONCRETE CURB AND GUTTER

PROPOSED CONCRETE CURB,GUTTER,& SIDEWALK

PROPOSED CONCRETE SIDEWALK

PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN) — 8" PVC SANITARY SEWER

ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE

RAIL ROAD

RETAINING WALL — 1' RETAINING WALL

STRIPING (CONTINUOUS WHITE) — WHITE

STRIPING (DASHED WHITE) — WHITE

STRIPING (CONTINUOUS YELLOW) — YELLOW

STRIPING (DASHED YELLOW) — YELLOW

TOP OF SLOPE — 4580

CONTOUR LINES (SHOWN BETWEEN TOP & TOE)

TOE OF SLOPE — 4570

TRAFFIC DETECTOR LOOP

UTILITY LINE (ABANDON) (THIS CASE A WATER LINE) — W (ABANDONED) 8" W

UTILITY LINE (CABLE TV) — TV TV

UTILITY LINE (ELECTRIC) — E E

UTILITY LINE (FIBER OPTIC) — FO QWEST FO

UTILITY LINE (GAS) — G 1 1/4" MW G

UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER) — HVOHP

UTILITY LINE (OVERHEAD POWER) — OHP

UTILITY LINE (OVERHEAD TELEPHONE) — OHT

UTILITY LINE (SANITARY SEWER) — 8" SAN

UTILITY LINE (SANITARY SEWER FORCE MAIN) — 8" FM

UTILITY LINE (SANITARY SEWER SERVICE) — SS

UTILITY LINE (STORM SEWER) — 8" STM

UTILITY LINE (STORM SEWER, PERFORATED) — 6" PERF

UTILITY LINE (STORM/SANITARY SEWER SEWER COMBINATION) — 18" COMB

UTILITY LINE (TELEPHONE) — T T

UTILITY LINE (WATER) — W 8" W

SYMBOLS

BENCH MARK — A
CATCH BASIN
CLEAN OUT — SSCO
CURB STOP
FIRE HYDRANT
GUY WIRE ANCHOR
HEADGATE
IRRIGATION PUMP
MAILBOX — MB
MANHOLE (ELECTRIC) — E
MANHOLE (GAS) — G
MANHOLE (SANITARY/STORM)
MANHOLE (TELEPHONE) — T
MANHOLE (TV) — TV
MANHOLE (WATER) — W
METER (GAS) — GM
METER (WATER)
PEDESTAL (TELEPHONE)
PEDESTAL (TV) — TV
PROPERTY PIN — PIN
PULL BOX
REDUCER FITTING
SIGN OR POST (SIGN TYPE NOTED) — STOP
SPRINKLER HEAD
STREET LIGHT
SURVEY MONUMENT (CITY) — CSM
SURVEY MONUMENT (TYPE NOTED) — MCSM
TEST HOLE — TH #1
TRAFFIC PAINT MARKING
TRAFFIC SIGNAL POLE AND MAST ARM
UTILITY POLE
VALVE (GAS) — GV
VALVE (IRRIGATION) — IRR
VALVE (WATER)
VEGETATION (HEDGE OR BUSH)
VEGETATION (TREE STUMP)
VEGETATION (TREE) (CALIPER SIZE NOTED) — 6"
WATER HYDRANT — WH
WEIR
YARD LIGHT

BAR SCALE:

GRAPHIC SCALE
10 0 20 40
(IN FEET)
1 inch = 20 ft.

NORTH ARROW:

N
W E
S

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DESCRIPTION	DATE
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SEE PLAN FOR SCALE INFO

CITY OF Grand Junction COLORADO

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PROJECT NO. 207-F1903

24 ROAD AND G ROAD
STANDARD ABREVIATIONS, LEGENDS, & SYMBOLS

2

DESCRIPTION	DATE
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NO SCALE

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24 ROAD AND G ROAD
SUMMARY OF APPROXIMATE QUANTITIES

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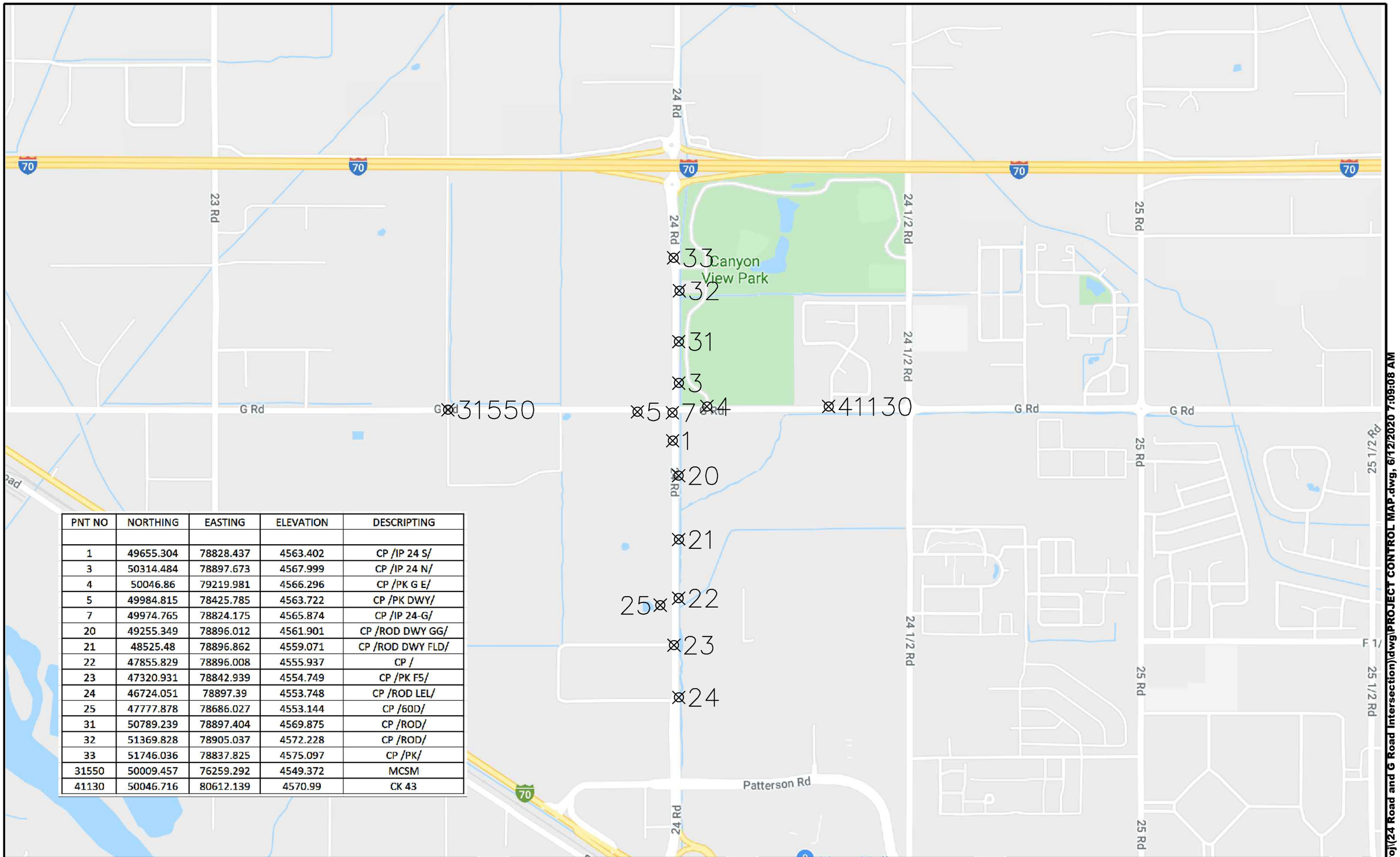

PNT NO	NORTHING	EASTING	ELEVATION	DESCRIPTING
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3	50314.484	78897.673	4567.999	CP /IP 24 N/
4	50046.86	79219.981	4566.296	CP /PK G E/
5	49984.815	78425.785	4563.722	CP /PK DWY/
7	49974.765	78824.175	4565.874	CP /IP 24-G/
20	49255.349	78896.012	4561.901	CP /ROD DWY GG/
21	48525.48	78896.862	4559.071	CP /ROD DWY FLD/
22	47855.829	78896.008	4555.937	CP /
23	47320.931	78842.939	4554.749	CP /PK F5/
24	46724.051	78897.39	4553.748	CP /ROD LEL/
25	47777.878	78686.027	4553.144	CP /60D/
31	50789.239	78897.404	4569.875	CP /ROD/
32	51369.828	78905.037	4572.228	CP /ROD/
33	51746.036	78837.825	4575.097	CP /PK/
31550	50009.457	76259.292	4549.372	MCSM
41130	50046.716	80612.139	4570.99	CK 43

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24 ROAD AND G ROAD
PROJECT CONTROL MAP

4

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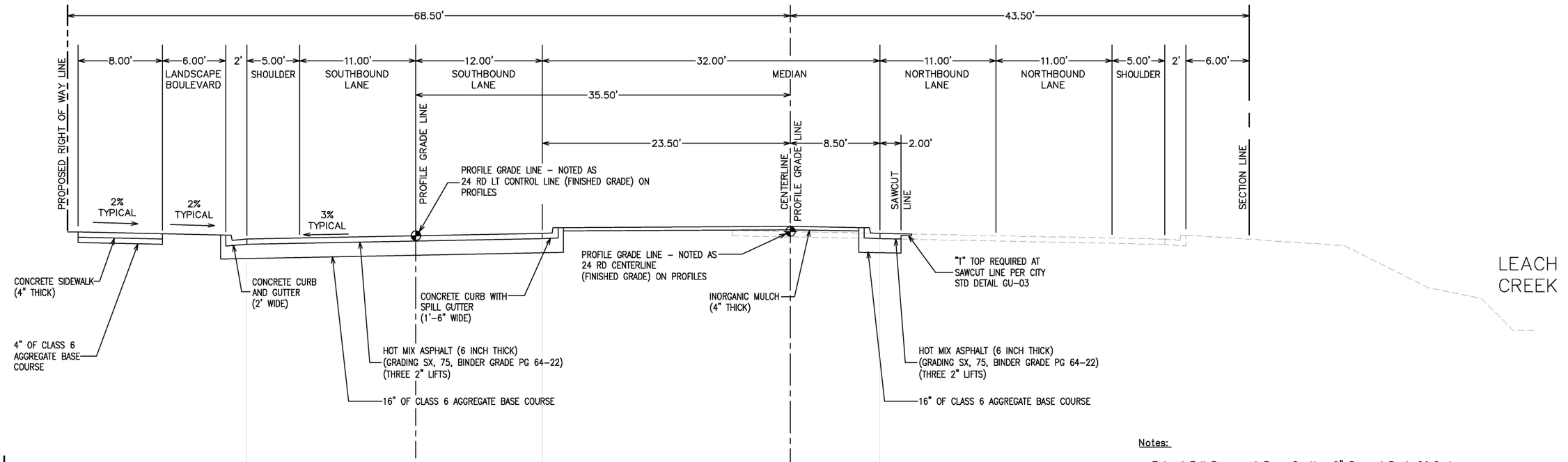

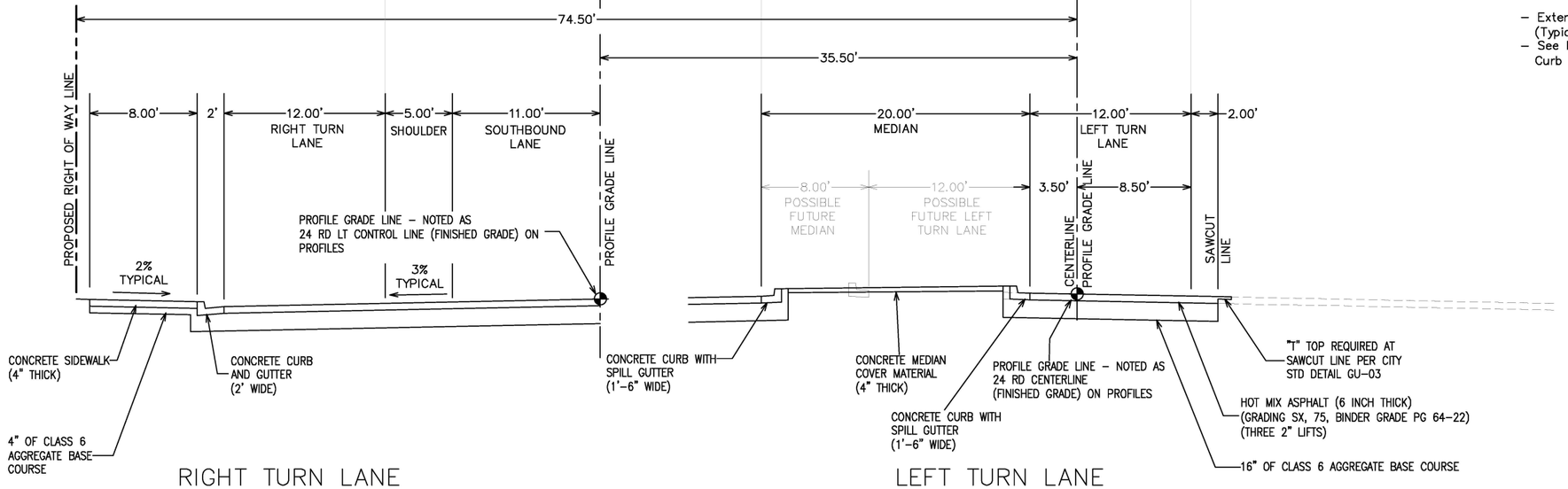

RIGHT TURN LANE

LEFT TURN LANE
(NORTHBOUND SHOWN)

FOR SOUTHBOUND THE 12' LEFT TURN LANE AND POSSIBLE FUTURE 12' LEFT TURN LANE WOULD BE PUSHED OUT FROM THE WEST SIDE OF THE 32' MEDIAN INSTEAD OF THE EAST SIDE.

Notes:

- Extend Full Pavement Base Section 6" Beyond Back Of Curbs (Typical)
- See Landscape Plans For Work Between Sidewalk and Back of Curb (Landscape Boulevard) and Medians

24 ROAD AT F 1/2 ROAD

DESCRIPTION	DATE
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SCALES: PLAN 0 2.5 5 10

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24 ROAD AND G ROAD
TYPICAL CROSS SECTION – 24 RD

5

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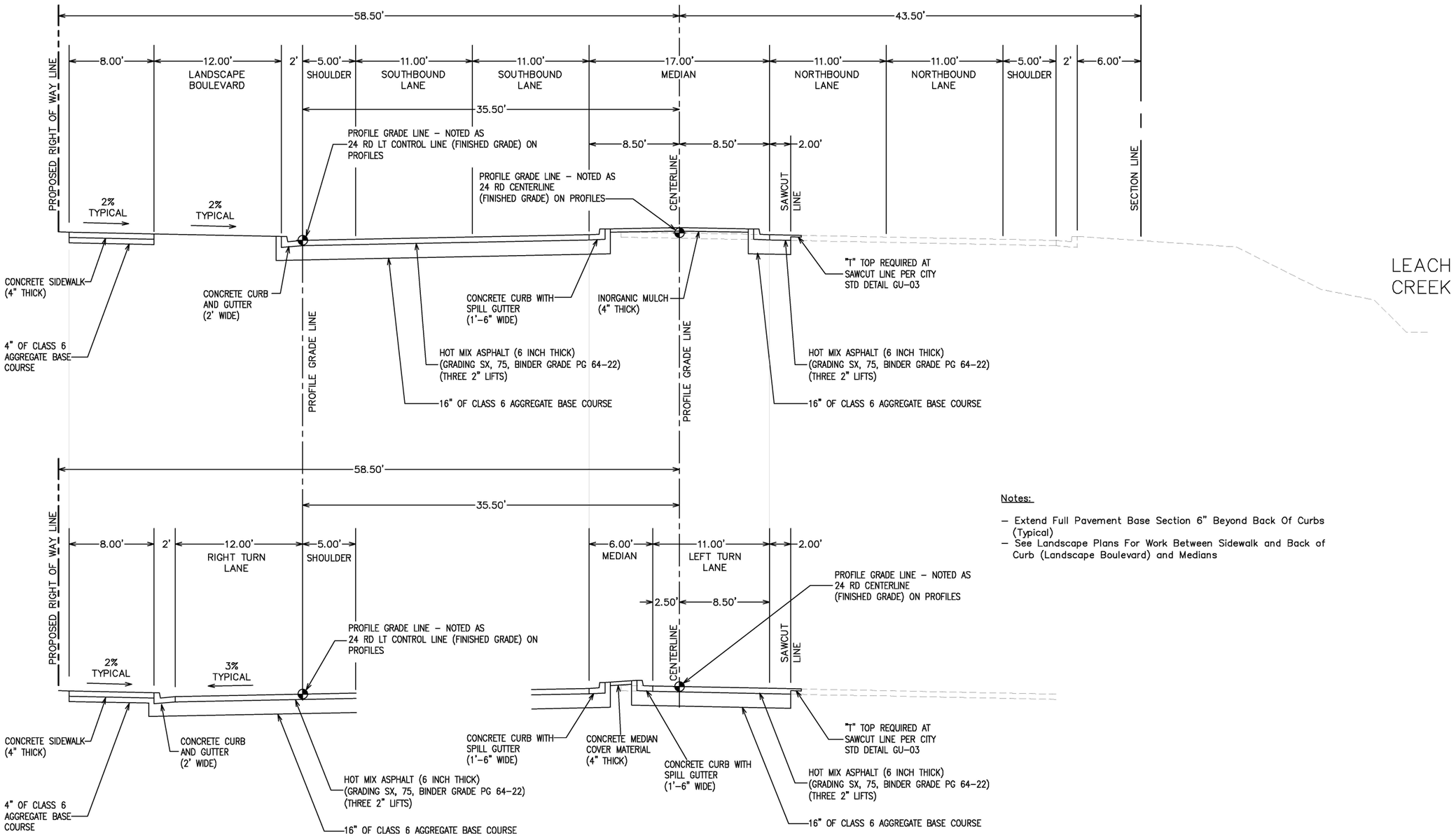

RIGHT TURN LANE

LEFT TURN LANE

Notes:

– Extend Full Pavement Base Section 6" Beyond Back Of Curbs (Typical)
– See Landscape Plans For Work Between Sidewalk and Back of Curb (Landscape Boulevard) and Medians

24 ROAD NORTH OF F 1/2 ROAD

DESCRIPTION	DATE
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SCALES: PLAN 0 2.5 5 10

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207–F1903

24 ROAD AND G ROAD
TYPICAL CROSS SECTION – 24 RD 2

6

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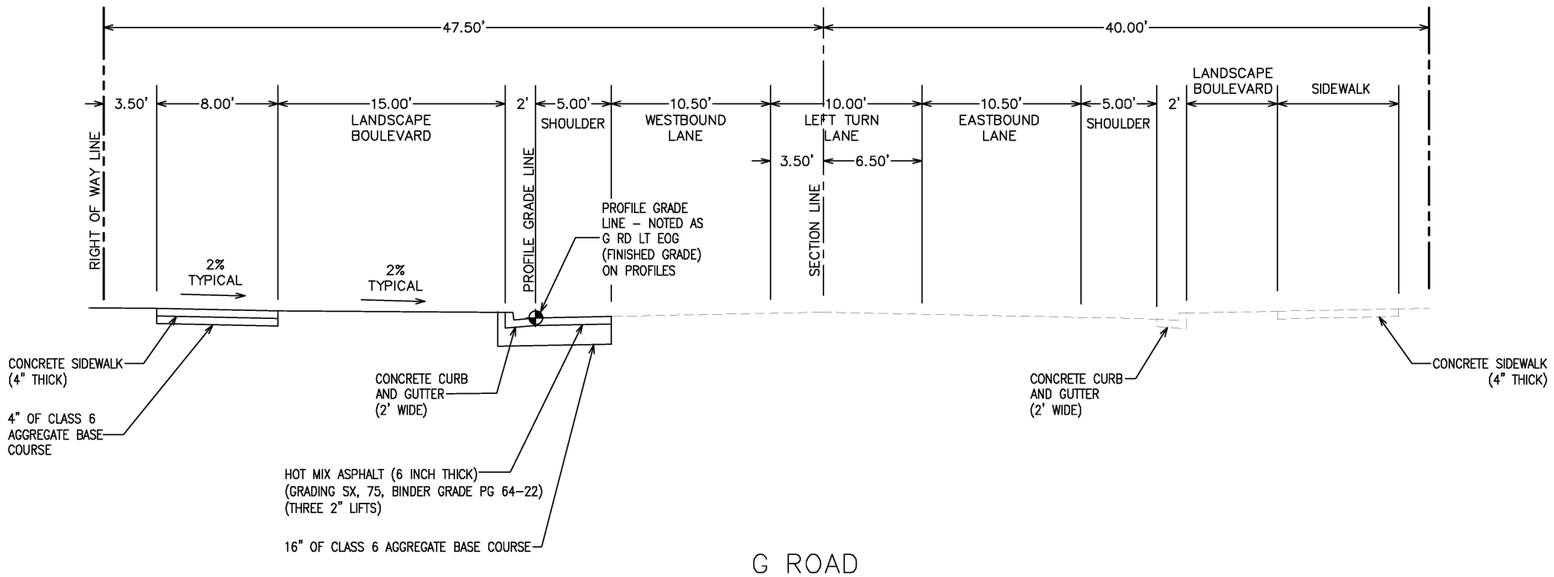
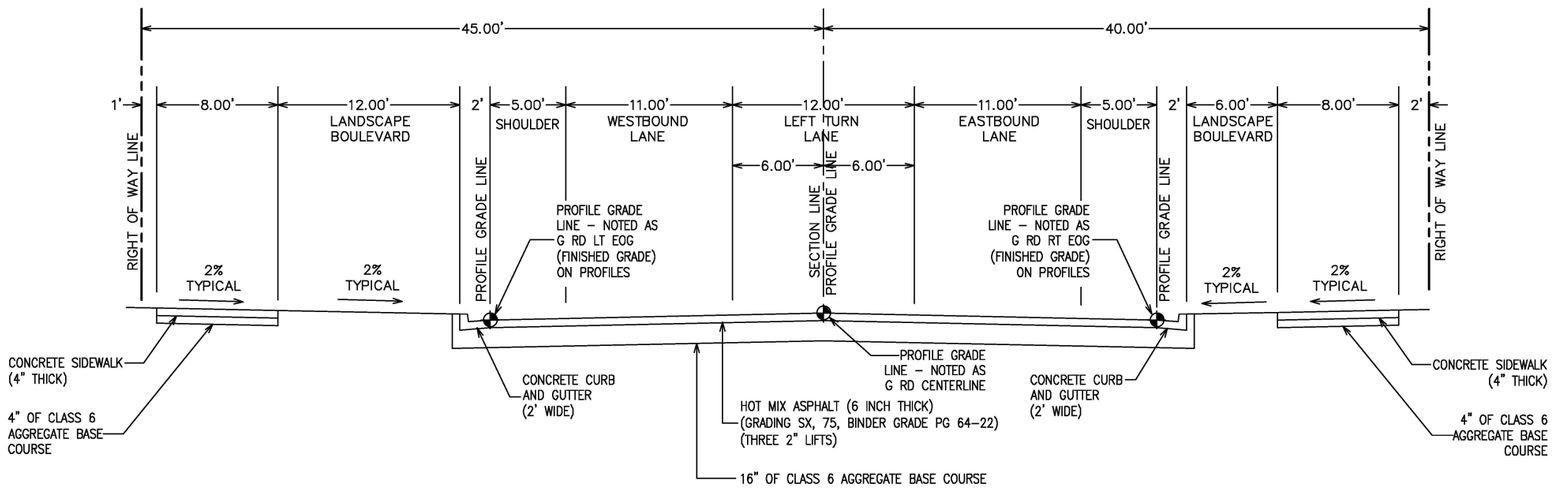


G ROAD
23 1/2 TO 23 3/4 RD

Notes:

– Extend Full Pavement Base Section 6" Beyond Back Of Curbs (Typical)
– See Landscape Plans For Work Between Sidewalk and Back of Curb (Landscape Boulevard) and Medians



G ROAD
23 3/4 TO 24 RD

DESCRIPTION	DATE
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REVISION 3 REV 3	– DATE
REVISION 4 REV 4	– DATE

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SCALES: PLAN 0 2.5 5 10

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PROJECT NO. 207–F1903

24 ROAD AND G ROAD
TYPICAL CROSS SECTION – G RD

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Notes:

- Extend Full Pavement Base Section 6" Beyond Back Of Curbs (Typical)
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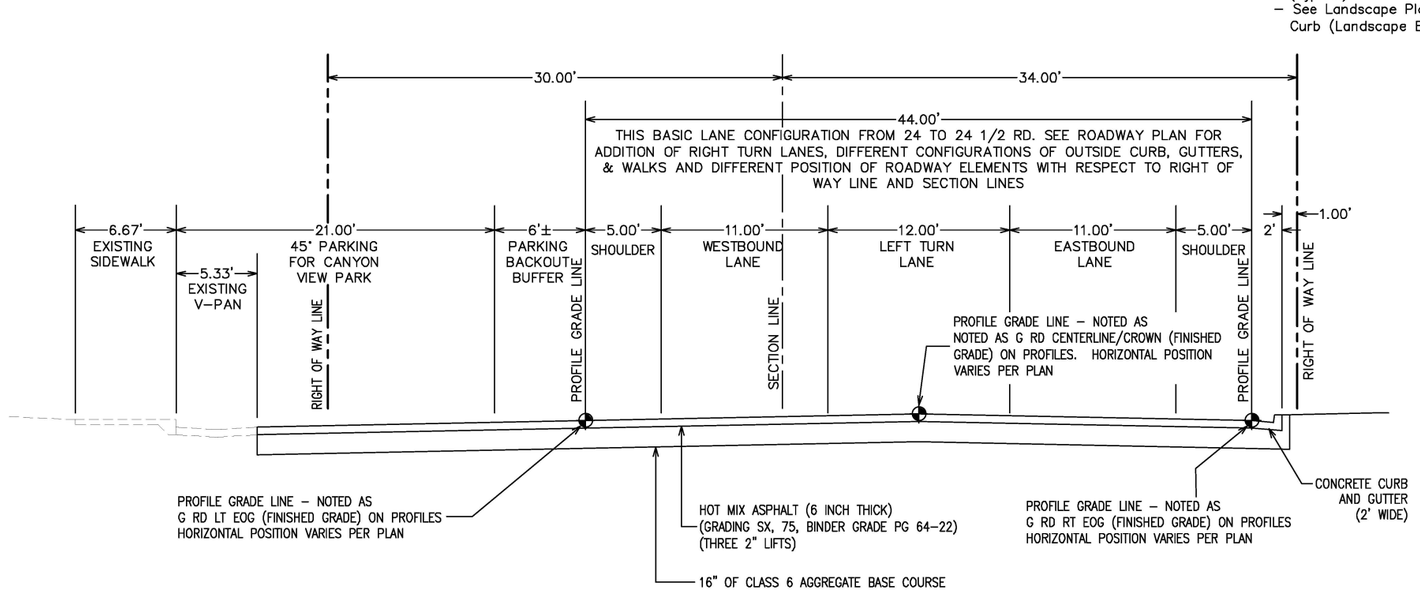

G ROAD
24 TO 24 $\frac{1}{2}$ RD

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES: PLAN 0 2.5 5 10

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
TYPICAL CROSS SECTION – G RD 2

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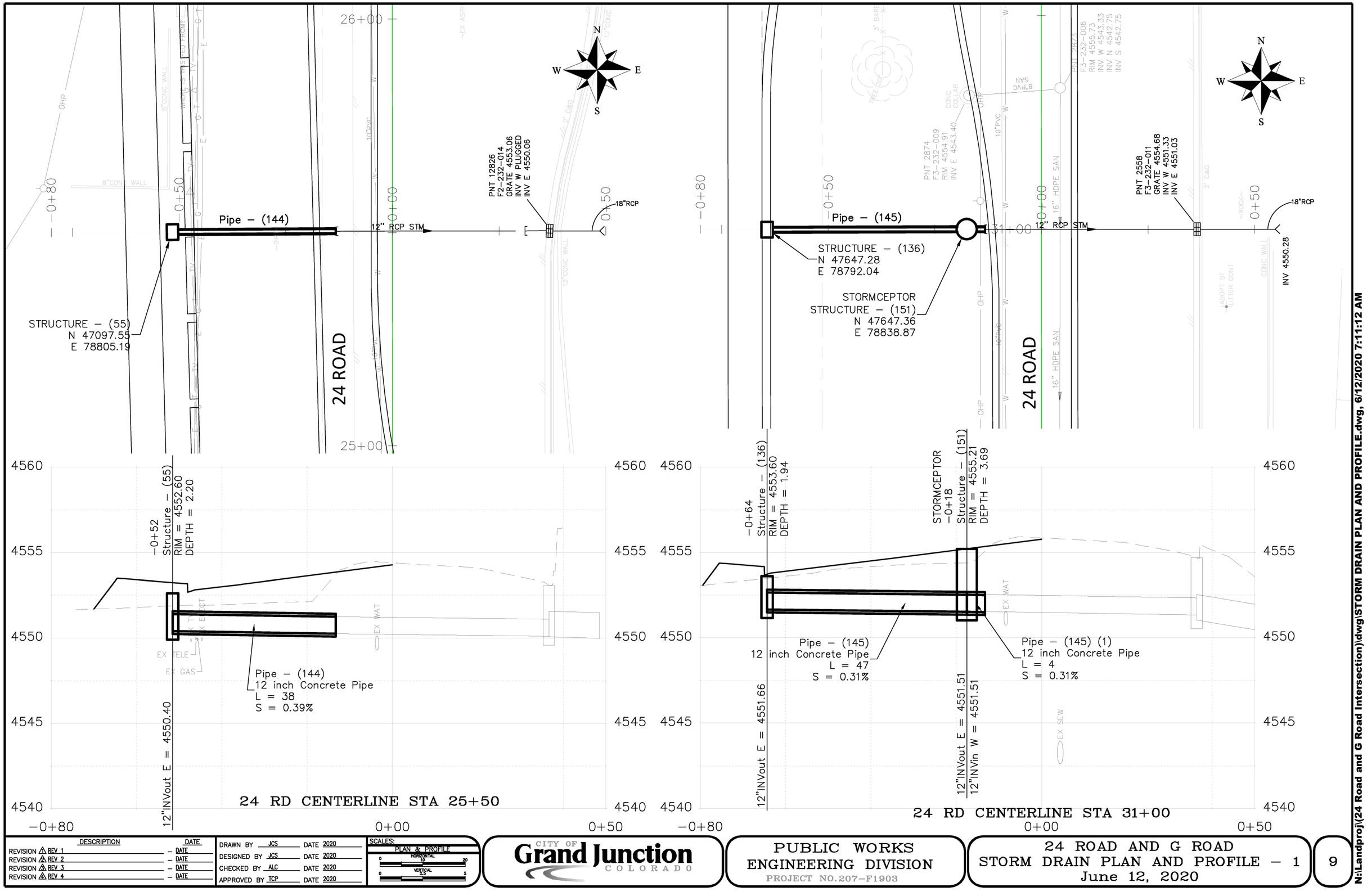

DESCRIPTION	DATE
REVISION 1 REV 1	– DATE
REVISION 2 REV 2	– DATE
REVISION 3 REV 3	– DATE
REVISION 4 REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
STORM DRAIN PLAN AND PROFILE – 1
June 12, 2020

9

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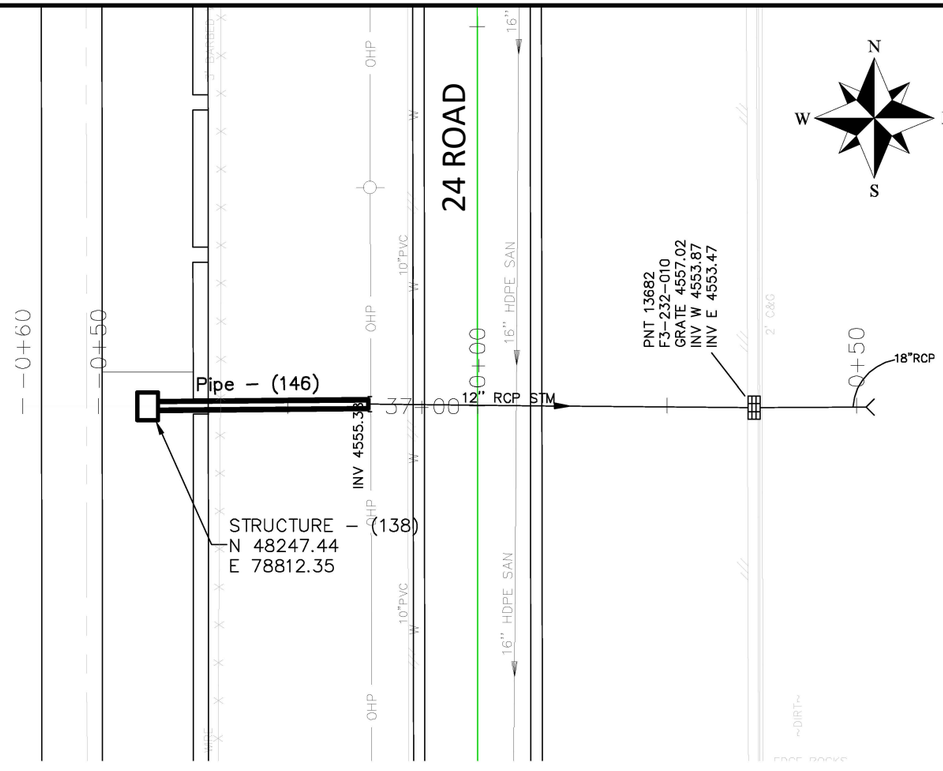

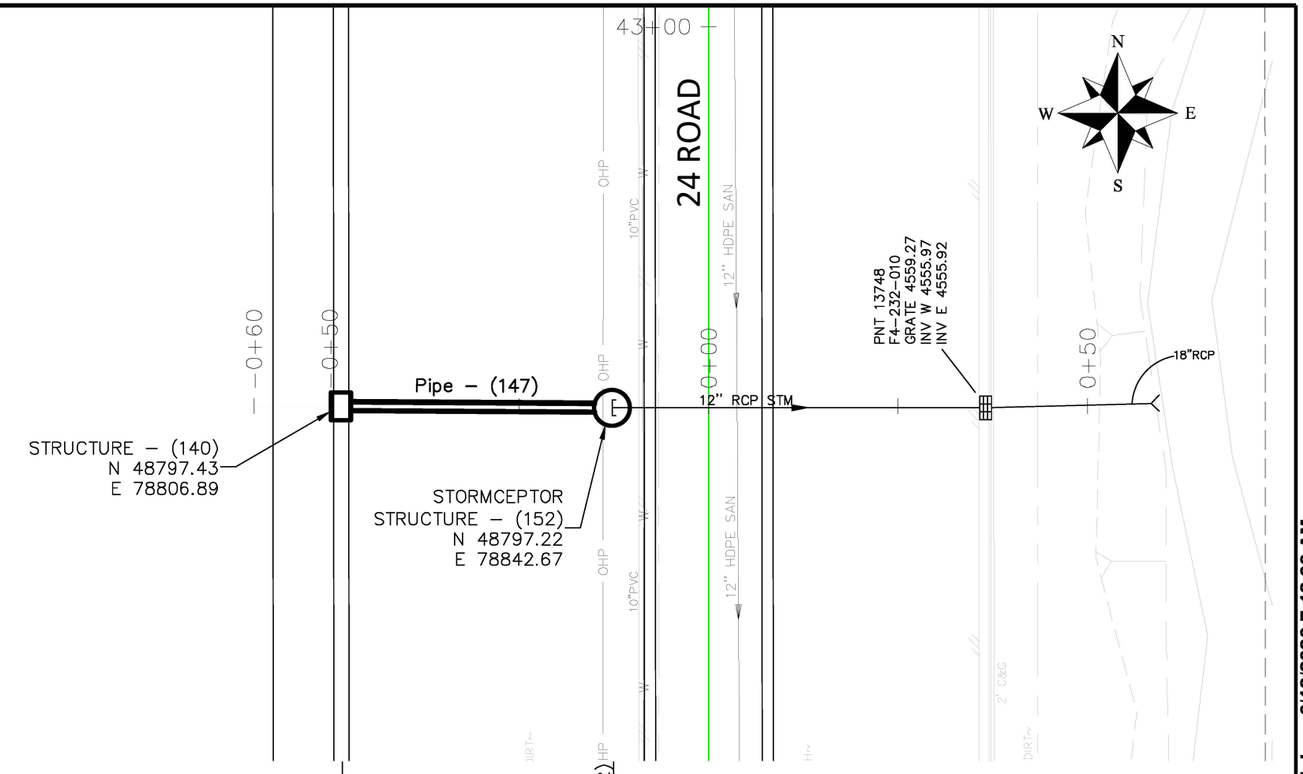

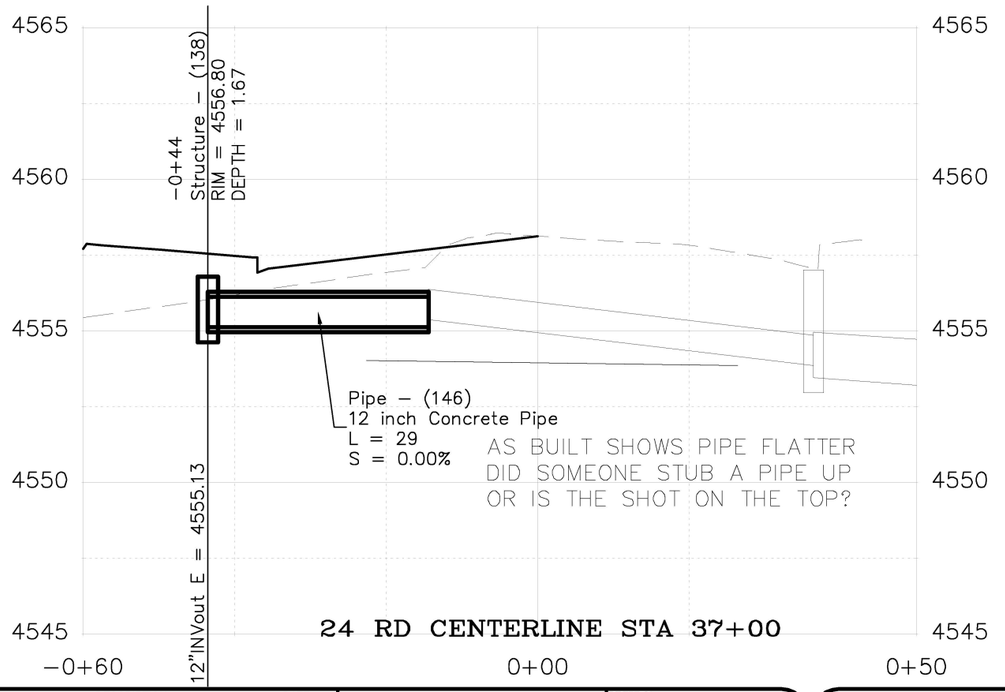

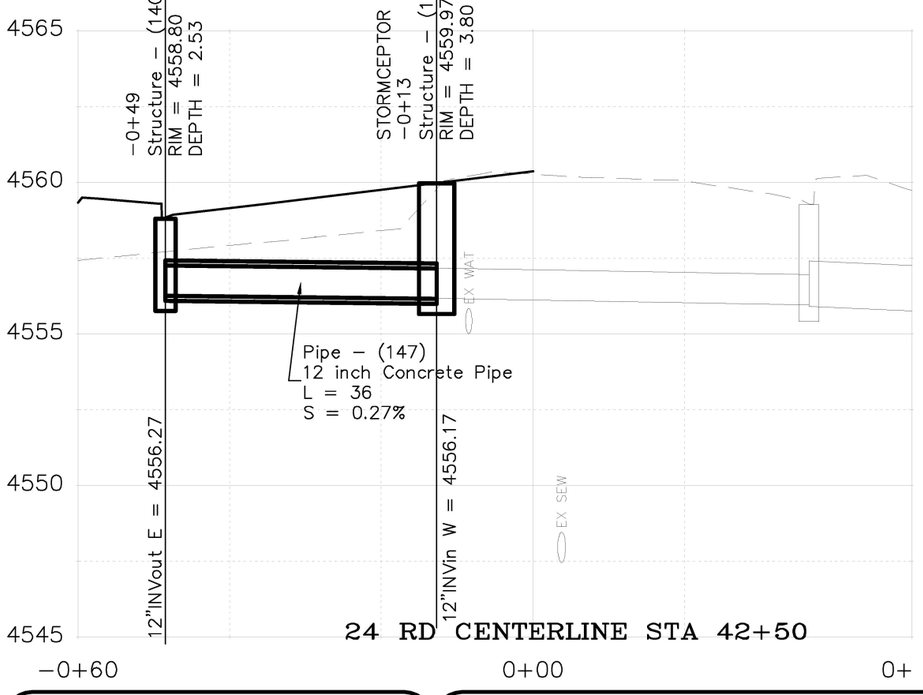

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REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
STORM DRAIN PLAN AND PROFILE – 2
June 12, 2020

10

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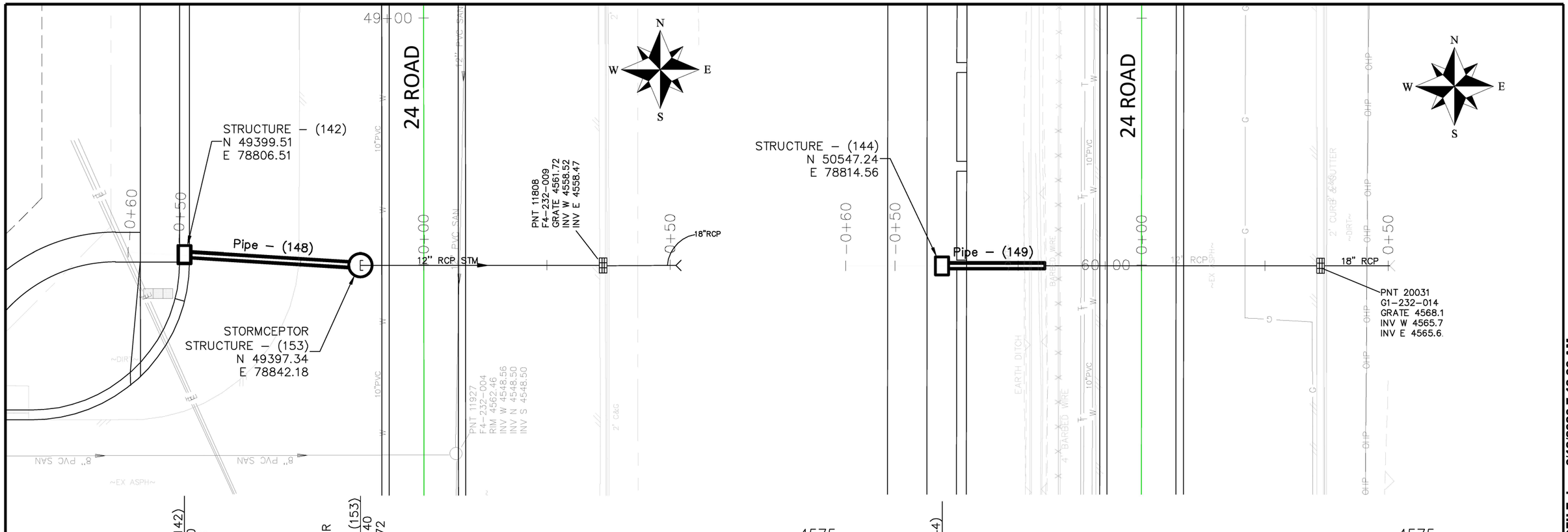

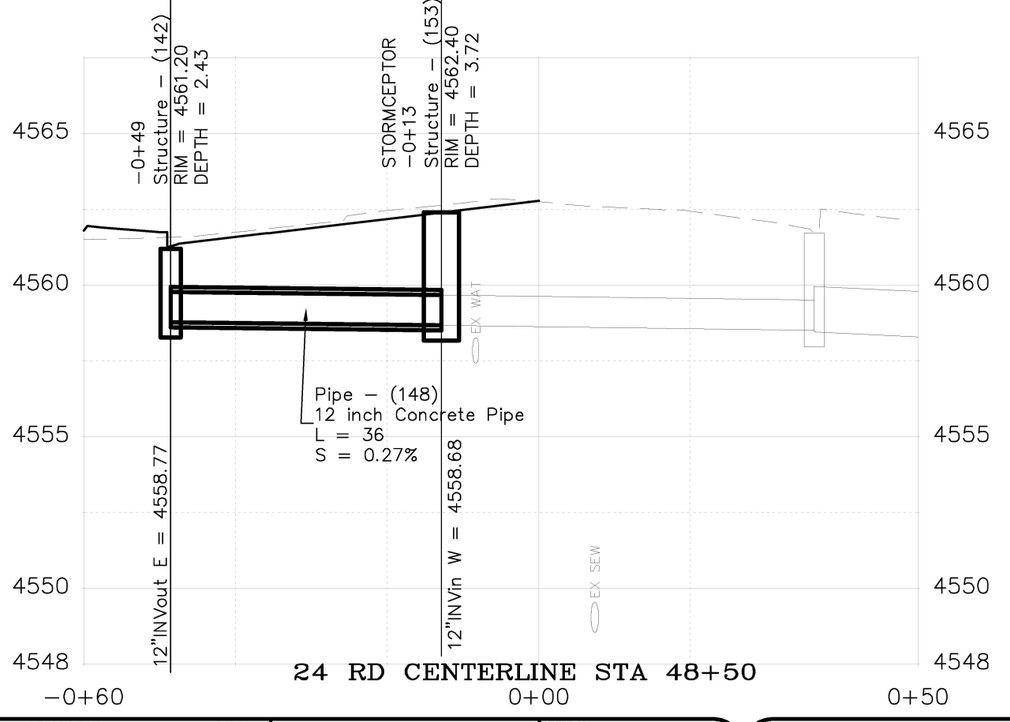

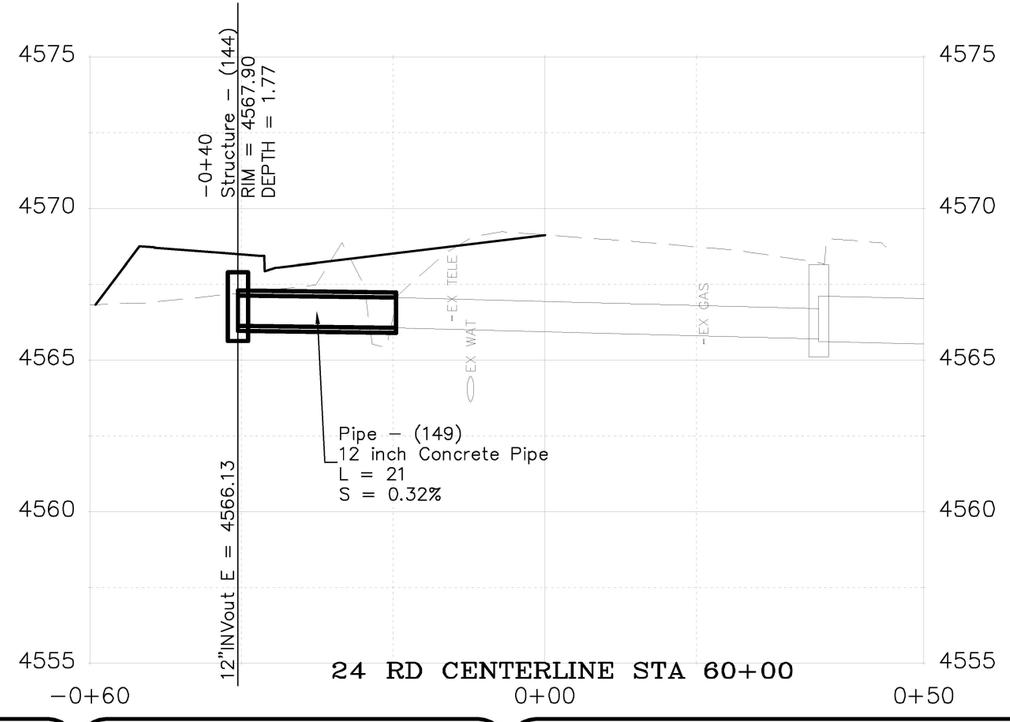

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REVISION ⚠ REV 4	– DATE

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DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207–F1903

24 ROAD AND G ROAD
STORM DRAIN PLAN AND PROFILE – 3
June 12, 2020

11

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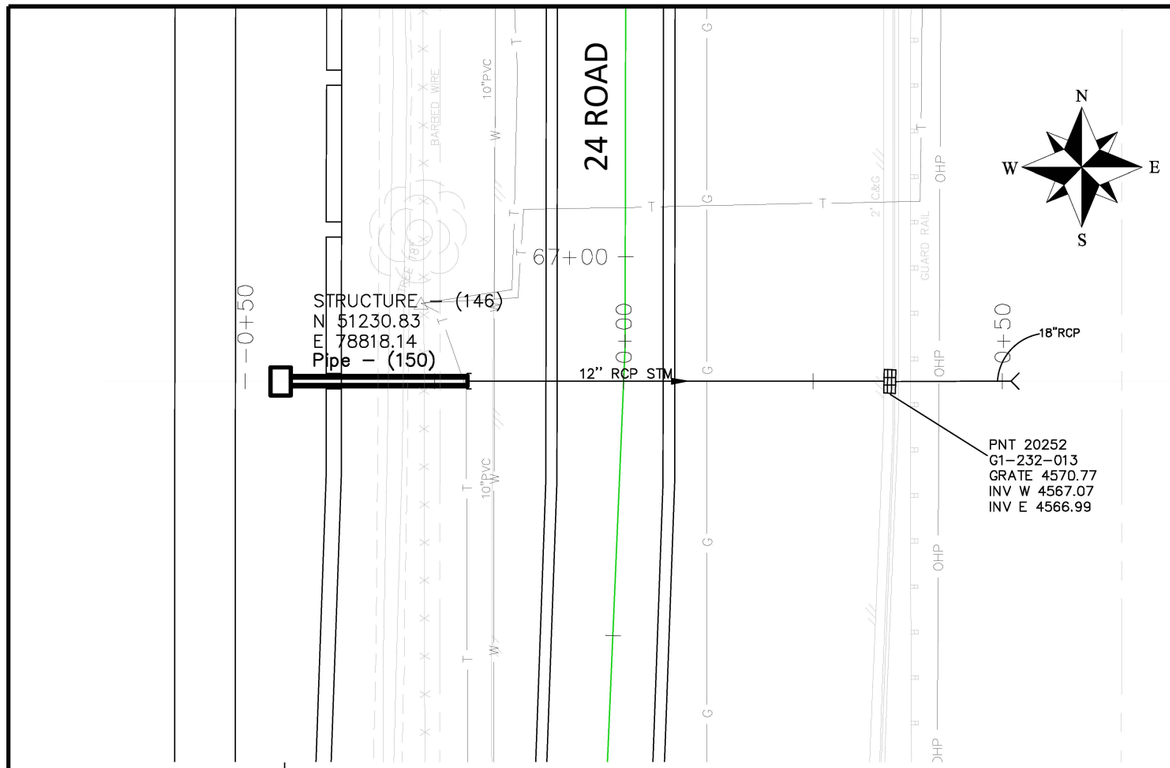

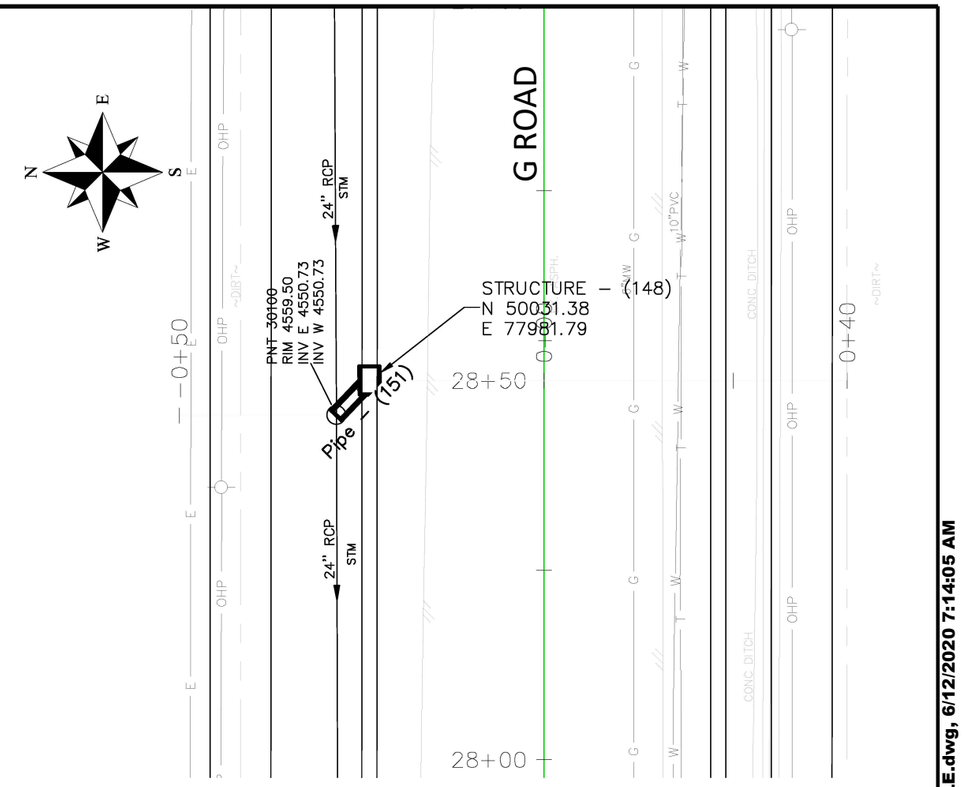

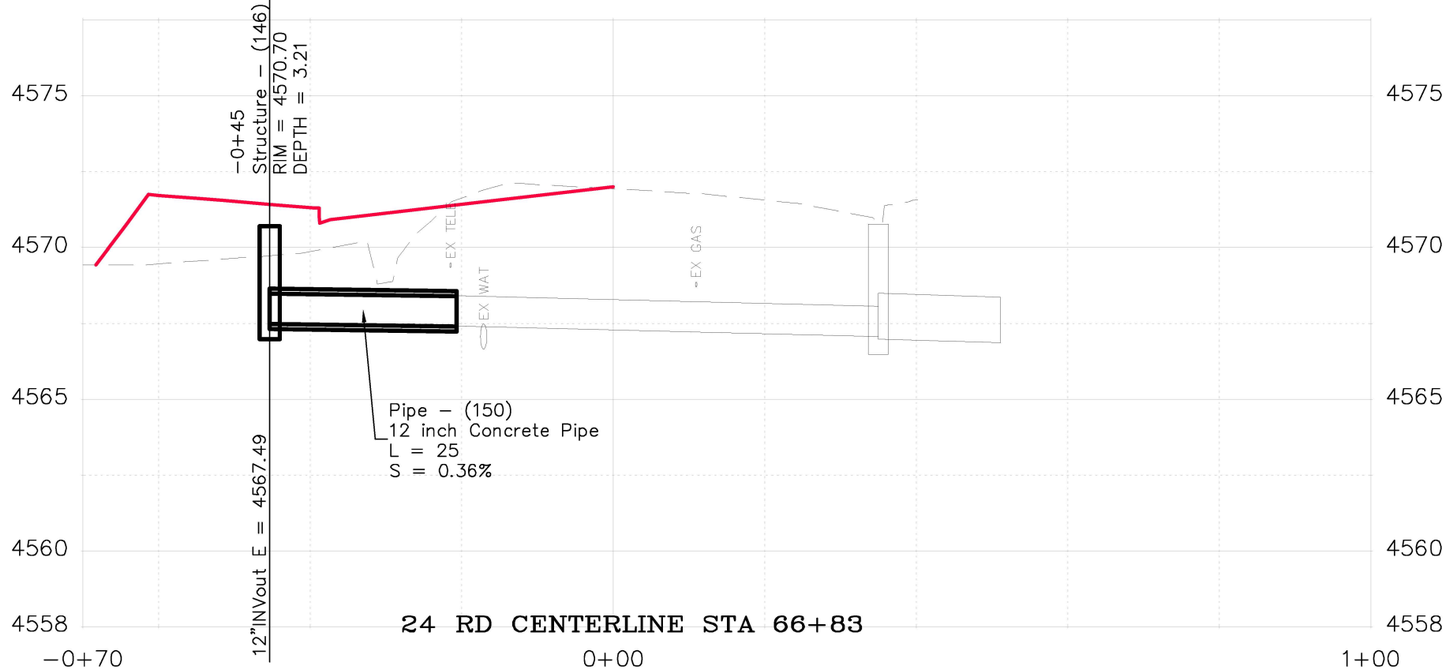

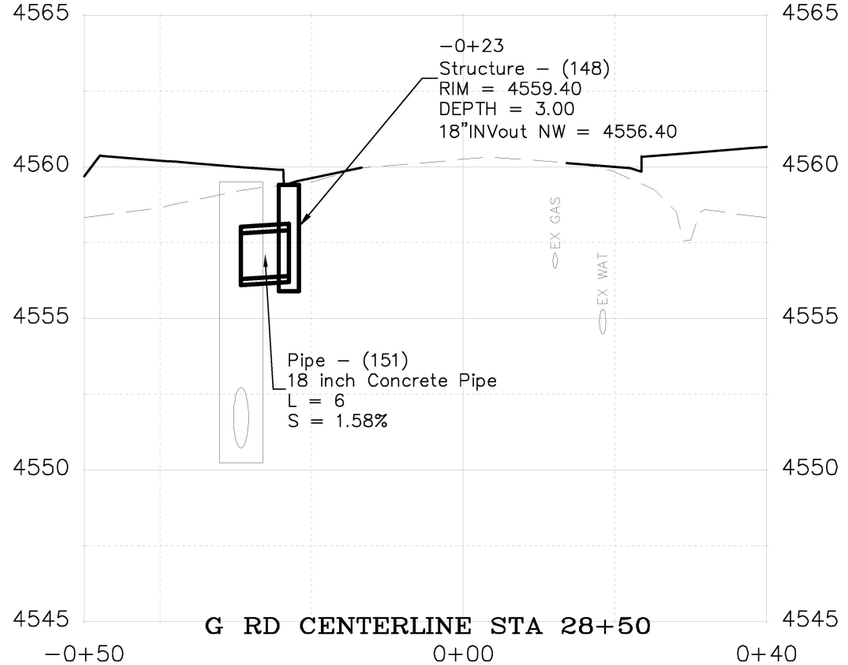

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REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

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DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
STORM DRAIN PLAN AND PROFILE – 4
June 12, 2020

12

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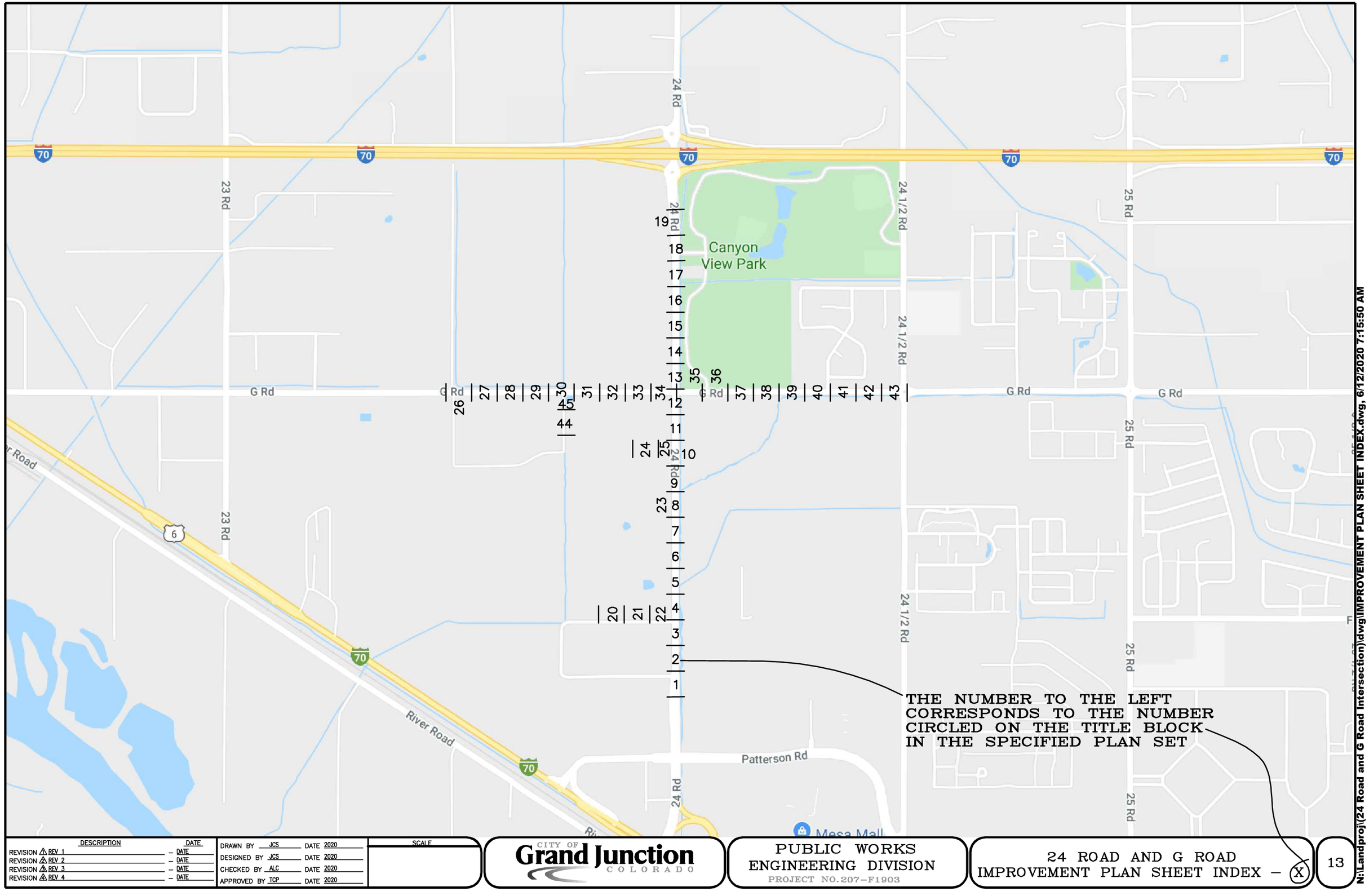

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REVISION ⚠ REV 4	– DATE

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APPROVED BY	TCP	DATE	2020

SCALE

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN SHEET INDEX – (X)

13

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2945-054-00-071
633 24 RD
TIMBERLINE BANK INC

MATCH LINE

MATCH LINE

LELAND AVE

2945-054-02-008
639 24 RD
BISON ENTERPRISES INC

24 RD LT CONTROL LINE

24 RD CENTERLINE

24 ROAD

6' WALK

2' C&G

1.5' C&G

19+50

20+00

20+50

21+00

21+50

~EX ASPH~

~DIRT~

7"C.G.&GW

8" PVC SAN

6"PVC

10"PVC

KEEP RT
DON'T ENTER

PNT 13254
F2-232-016
GRATE 4551.49
INV W 4548.49
INV E 4548.24

18"RCP

PNT 9996
F2-241-001
RIM 4550.96
INV E 4541.89
INV W 4541.76

2945-043-21-001
649 MARKET ST
VALLEY EXCHANGE PROPERTIES IV LLC

2945-043-53-002
CITY OF GRAND JUNCTION

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

DRAWN BY	JCS	DATE 2020
DESIGNED BY	JCS	DATE 2020
CHECKED BY	ALC	DATE 2020
APPROVED BY	TCP	DATE 2020

SCALE
0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 001

14

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MATCH LINE

2945-054-02-008
639 24 RD
BISON ENTERPRISES INC

2945-054-02-001
649 24 RD
TED A MARTIN

W
S
N
E

WALK
FF 4551.5
WALK
WALK

~EX ASPH~

22+50
23+00
23+50
24+00
24+50

24 RD LT CONTROL LINE

~EX ASPH~
~EX ASPH~
~EX ASPH~

24 RD ADULT EMPORIUM

8"CONC WALL
8"CONC WALL
8"CONC WALL

MH
639 24RD

24 RD CENTERLINE

W 10"PVC

24 ROAD

MATCH LINE

~EX ASPH~

2' C&G
2' C&G
2' C&G

12"CONC WALL
12"CONC WALL

CP /ROD LEL/
N 46724.0510
E 78897.39
EL 4553.75

2945-043-21-001
649 MARKET ST
VALLEY EXCHANGE PROPERTIES IV LLC

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

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE
0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 002

15

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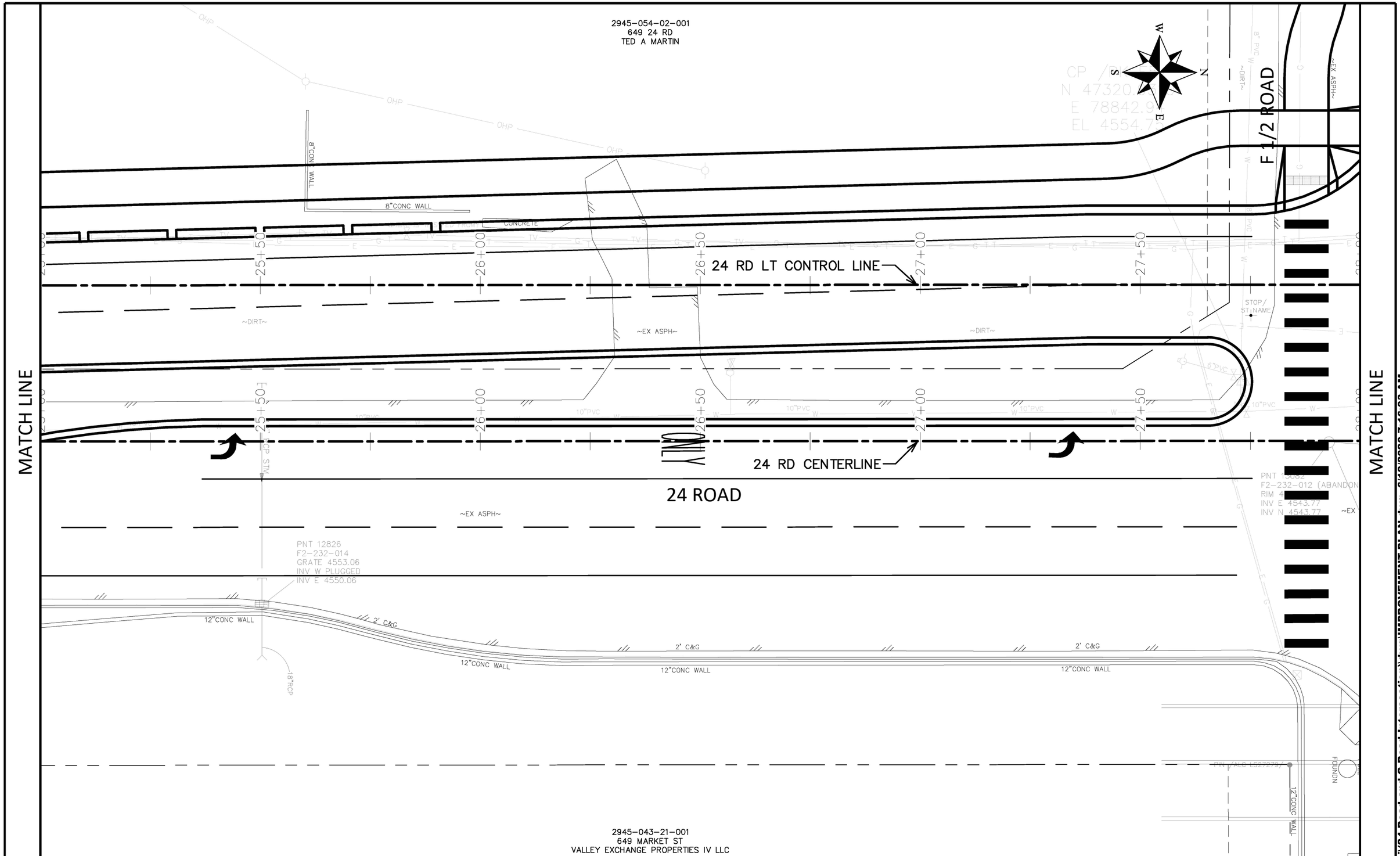

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REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 003

16

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2945-051-14-001
665 24 RD
CC GRAND JUNCTION LLC

F 1/2 ROAD

24 ROAD

24 RD LT CONTROL LINE

24 RD CENTERLINE

ONLY

MATCH LINE

MATCH LINE

9+50

28+50

29+00

29+50

30+00

30+50

10+00

10+50

BARBED WIRE

3' BARBED WIRE

~DIRT~

~EX ASPH~

OHP

10"PVC

16" HDPE SAN

8" PVC SAN

ABANDON?

PNT 9998?
F3-232-007
RIM 4555.45
INV N 4541.32
INV W 4541.13

PNT 2850
F3-232-010
RIM 4555.73
INV E 4542.56
INV N 4541.76
INV S 4541.76

TRIPLE 6 foot ht x 12 foot width CONCRETE BOX CULVERT NOT SURVEYED

8" PVC SAN ABANDON?

SUR MON

STOP
ST NAME

2' C&G

45 MPH

~ROCK~

ADOPT ST
LITTER CONT

CONC WALL

INV 4550.28

2945-042-69-003
653 MARKET ST
RDB HOLDINGS INC

TREE

24" HDPE

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

DRAWN BY	JCS	DATE 2020
DESIGNED BY	JCS	DATE 2020
CHECKED BY	ALC	DATE 2020
APPROVED BY	TCP	DATE 2020

SCALE

0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 004

17

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2945-051-14-001
665 24 RD
CC GRAND JUNCTION LLC

MATCH LINE

MATCH LINE

24 RD LT CONTROL LINE

24 ROAD

24 RD CENTERLINE

31+50 32+00 32+50 33+00 33+50

3' BARBED WIRE

TREE (TYP.)

PNT 2874
F3-232-009
RIM 4554.91
INV E 4543.40

CONC COLLAR

~DIRT~

OHP

10"PVC

8"PVC SAN

16" HDPE SAN

PNT 2873
F3-232-006
RIM 4555.73
INV W 4543.33
INV N 4542.75
INV S 4542.75

~EX ASPH~

PNT 2558
F3-232-011
GRATE 4554.68
INV W 4551.33
INV E 4551.03

2' C&G

~ROCK~

18"RCP

CP /
N 47855.8290
E 78896.01
EL 4555.94

2945-042-69-003
653 MARKET ST
RDB HOLDINGS INC

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE 0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 005

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2945-051-14-001
665 24 RD
CC GRAND JUNCTION LLC

MATCH LINE

MATCH LINE

34+50 | 35+00 | 35+50 | 36+00 | 36+50 | 37+00

3' BARBED WIRE

24 RD LT CONTROL LINE

~DIRT~

PNT 2914
F3-232-008
RIM 4556.10
INV E 4544.07

CONC COLLAR

OHP

10"PVC

INV 4555.3

24 ROAD

8"PVC SAN

24 RD CENTERLINE

16" HDPE SAN

PNT 2913
F3-232-009
RIM 4557.03
INV W 4543.65
INV N 4543.61
INV S 4543.61

~EX ASPH~

2' C&G

~ROCK~

~ROCK~

~ROCK~

EDGE ROCKS

~DIRT~

2945-042-69-003
653 MARKET ST
RDB HOLDINGS INC

2945-042-69-001
659 MARKET ST
VP GRD JCT LLC

2945-042-30-002
660 24 RD
USHER NV LLC

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE 0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 006

19

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2945-051-14-001
665 24 RD
CC GRAND JUNCTION LLC

MATCH LINE

MATCH LINE

37+50 38+00 38+50 39+00 39+50

24 RD LT CONTROL LINE

24 ROAD

24 RD CENTERLINE

~DIRT~

~EX ASPH~

WD FENCE

OHP

10"PVC

16" HDPE SAN

PNT 13791
F3-232-004
RIM 4558.40
INV N 4545.01
INV S 4545.01

PNT 13682
F3-232-010
GRATE 4557.02
INV W 4553.87
INV E 4553.47

2' C&G

18"RCP

2945-042-30-002
660 24 RD
USHER NV LLC

DESCRIPTION	DATE
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REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

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APPROVED BY TCP DATE 2020

SCALE 0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 007

20

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2945-051-14-001
665 24 RD
CC GRAND JUNCTION LLC

CONCRETE

F 3/4 ROAD

2945-051-00-095
NORTHWEST CORNER OF F 3/4 AND 24 RD
MONUMENT INVESTMENT CO. LLC

W
S
N
E

4+50

40+50 | 41+00 | 41+50 | 42+00 | 42+50

24 RD LT CONTROL LINE

~DIRT~

PNT 13860
F3-232-008
RIM 4558.80
INV E 4546.50

CONC COLLAR

OHP

10"PVC

24 ROAD

8"PVC SAN

24 RD CENTERLINE

5+00

16" HDPE SAN

12" HDPE SAN

PNT 13859
F4-232-006
RIM 4559.75
INV W 4546.15
INV E 4548.77
INV N 4547.21
INV S 4546.05

~EX ASPH~

PNT 13748
F4-232-010
GRATE 4559.27
INV W 4555.97
INV E 4555.92

18"RCP

2' C&G

8" PVC SAN

5+50

F 3/4 ROAD

INV 4554.98

INV 4555.89

12" AC CULVERT

2945-042-30-002
660 24 RD
USHER NV LLC

2945-042-00-018
Southeast Corner of 24 & G Rd
USHER NV LLC

4' BARBED WIRE

MATCH LINE

MATCH LINE

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DESCRIPTION	DATE
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REVISION ⚠ REV 4	– DATE

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DESIGNED BY	JCS	DATE 2020
CHECKED BY	ALC	DATE 2020
APPROVED BY	TCP	DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 008

21

2945-051-00-095
NORTHWEST CORNER OF F 3/4 AND 24 RD
MONUMENT INVESTMENT CO. LLC

2945-051-00-096
683 G RD
2J DEVELOPMENT LLC

MATCH LINE

MATCH LINE

43+50 | 44+00 | 44+50 | 45+00 | 45+50

24 RD LT CONTROL LINE

~DIRT~

OHP

10"PVC

24 ROAD

24 RD CENTERLINE

12" HDPE SAN | 12" HDPE SAN | 12" HDPE SAN | 12" HDPE SAN | 12" PVC SAN | 12" PVC SAN | 12" PVC SAN

PNT 11849
RIM 4561.07
INV N 4548.04
INV S 4548.04

~EX ASPH~

~EX

2' C&G | 2' C&G | 2' C&G

~DIRT~

2945-042-00-018
Southeast Corner of 24 & G Rd
USHER NV LLC

4' BARBED WIRE | 4' BARBED WIRE | 4' BARBED

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DESCRIPTION	DATE
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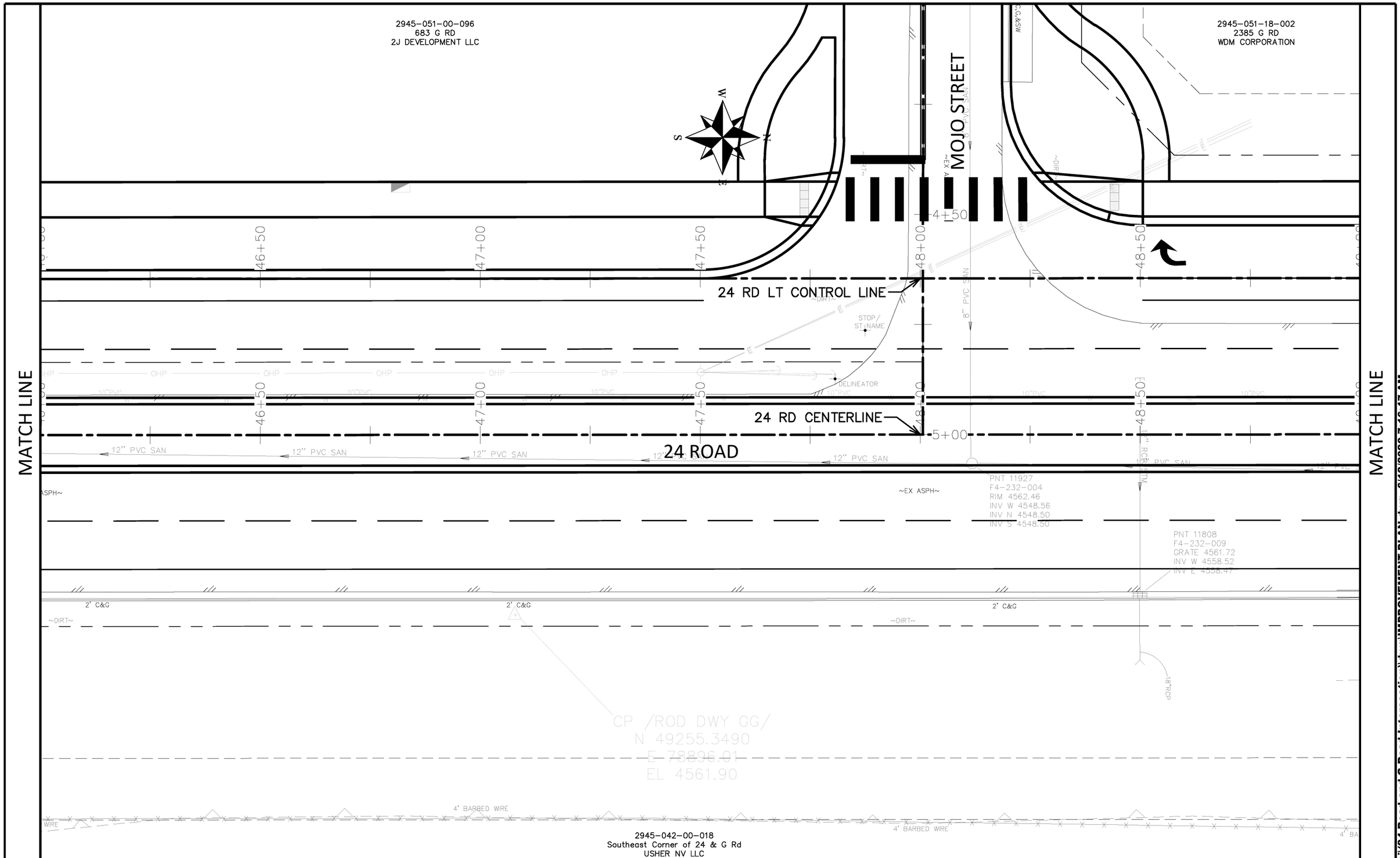
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 009



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REVISION 3 REV 3	DATE
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DRAWN BY	JCS	DATE	2020
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CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 010

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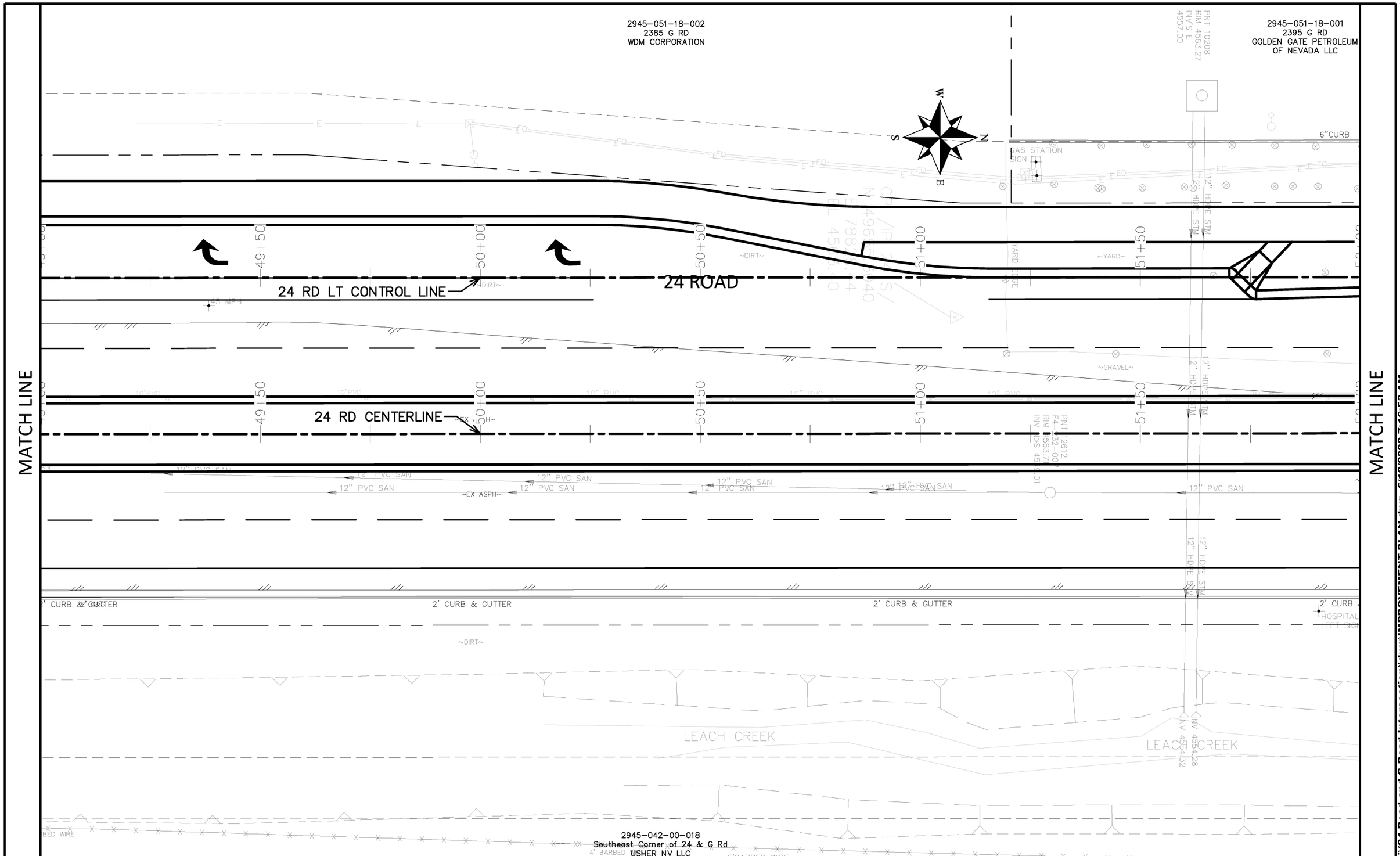


DESCRIPTION	DATE
REVISION 1 REV 1	DATE
REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE

0 5 10 20

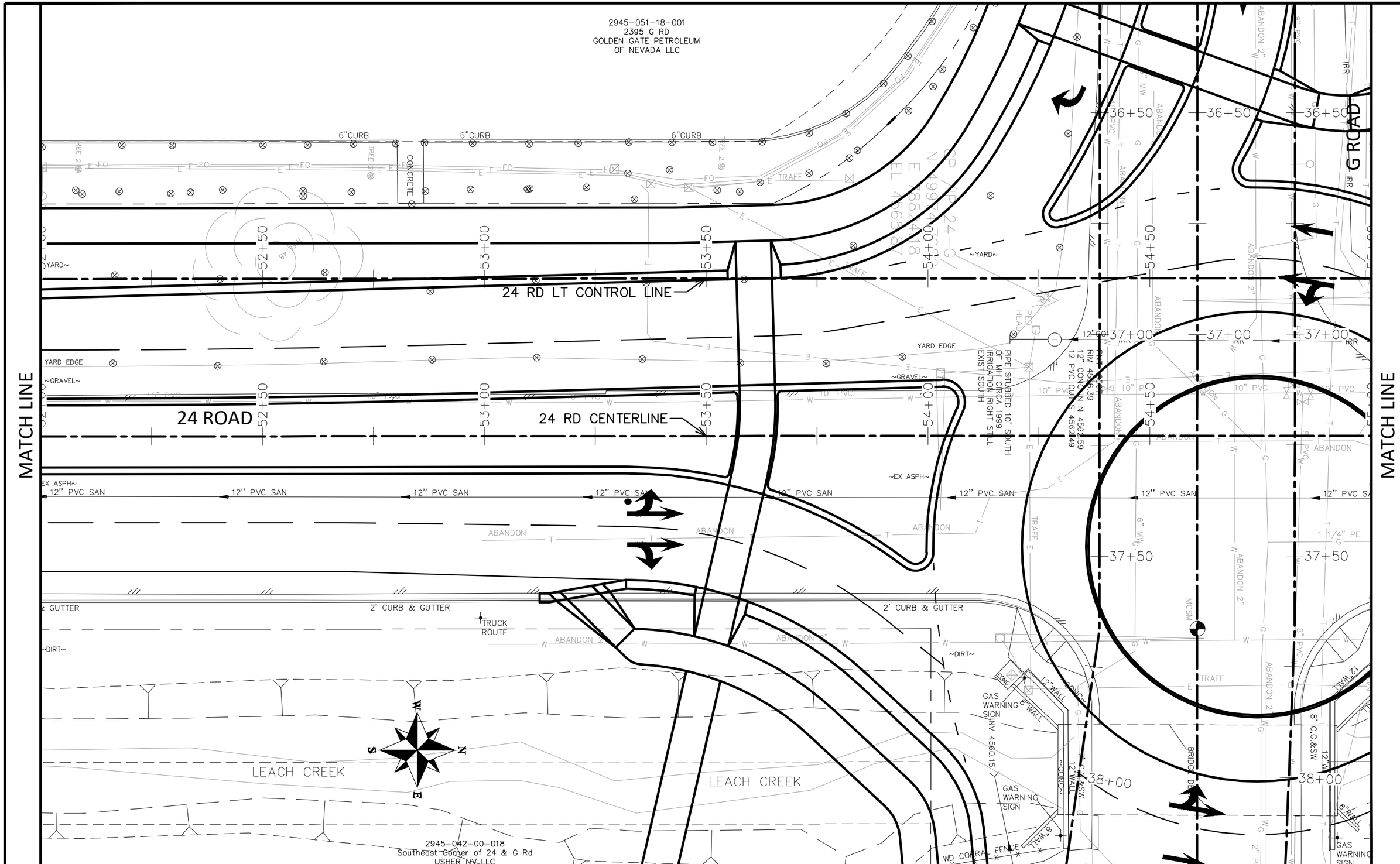
CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 011

24

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:16:53 AM



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REVISION 1 REV 1	DATE
REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN - 012

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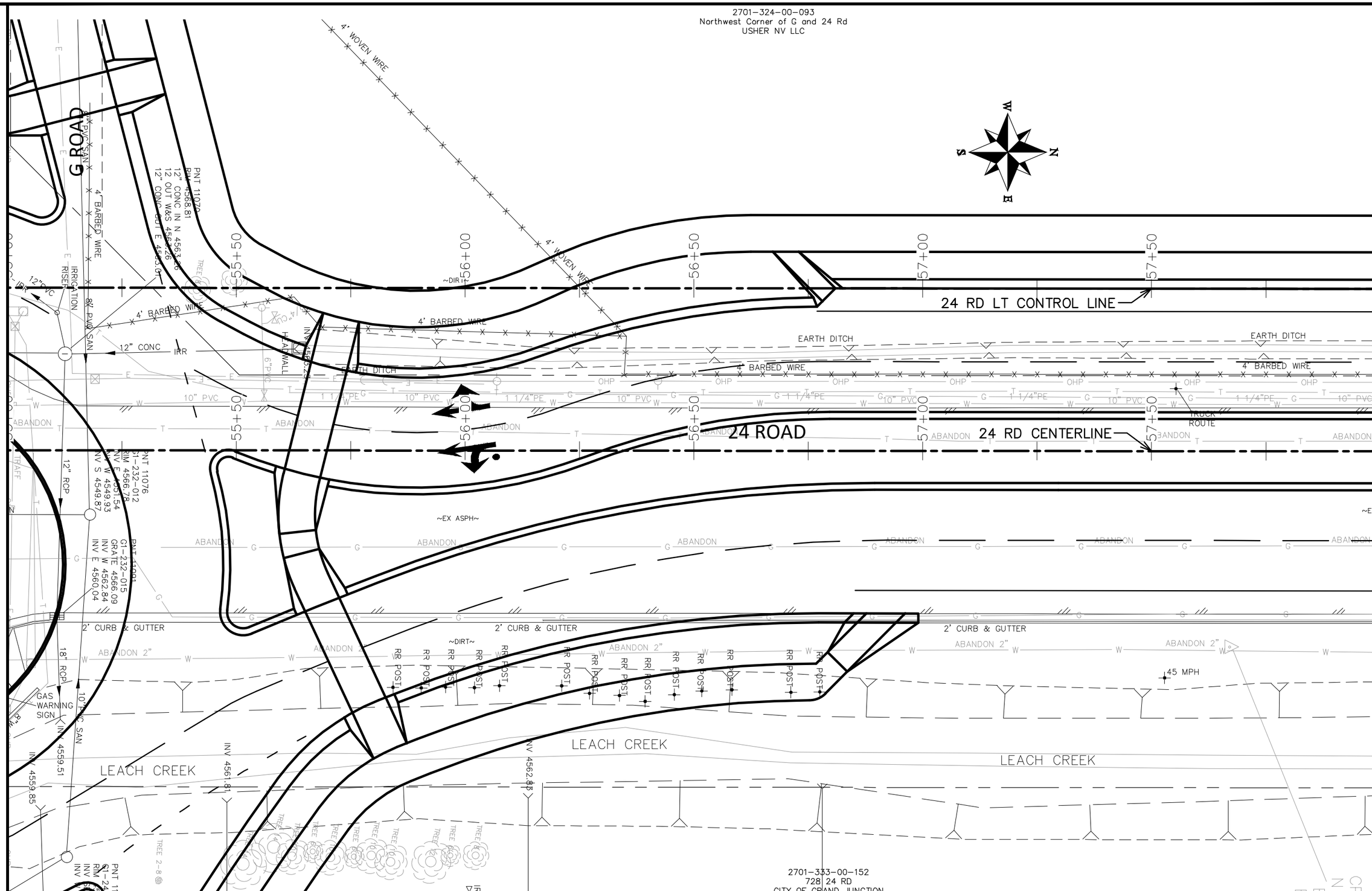

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REVISION 1 REV 1	DATE
REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 013

26

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:17:06 AM

2701-324-00-093
Northwest Corner of G and 24 Rd
USHER NV LLC

MATCH LINE

MATCH LINE

58+00 58+50 59+00 59+50 60+00 60+50

24 RD LT CONTROL LINE

24 ROAD

24 RD CENTERLINE

EARTH DITCH

EARTH DITCH

~DIRT~

4' BARBED WIRE

BARBED WIRE

BARBED WIRE

4' BARBED WIRE

OHP

1 1/4"PE

10" PVC

~EX ASPH~

~ASPH~

FIBER

18" RCP

2' CURB & GUTTER

2' CURB & GUTTER

2' CURB & GUTTER

~DIRT~

PNT 20031
G1-232-014
GRATE 4568.15
INV W 4565.70
INV E 4565.62

LEACH CREEK

~YARD~

2701-333-00-152
728 24 RD
CITY OF GRAND JUNCTION

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 014

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2701-324-00-093
Northwest Corner of G and 24 Rd
USHER NV LLC

MATCH LINE

61+50 62+00 62+50 63+00 63+50

24 RD LT CONTROL LINE

~DIRT~

WIRE BARBED WIRE BARBED WIRE BARB

10"PVC 10"PVC 10"PVC 10"PVC 10"PVC

24 ROAD

24 RD CENTERLINE

MATCH LINE

~EX ASPH~

~EX A

G G G

2701-324-00-093
Northwest Corner of G and 24 Rd
USHER NV LLC

2701-324-00-092
Southwest Corner of I-70 and 24 Rd
MARIAN JACOBSON, ERIC JACOBSON, &
KIRSTEN JACOBSON

G 1/4 ROAD

MATCH LINE

MATCH LINE

24 RD LT CONTROL LINE

24 RD CENTERLINE

24 ROAD

4+00

4+50

5+00

64+50

65+00

65+50

66+00

66+50

~DIRT~

~EX ASPH~

BARBED WIRE

10"PVC

2' C&G

GUARD RAIL

OHP

12" RCP STM

PNT 20252
G1-232-013
GRATE 4570.77
INV W 4567.07
INV E 4566.99

18"RCP

2701-333-00-152
728 24 RD
CITY OF GRAND JUNCTION

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 016

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:17:25 AM

2701-324-00-092
Southwest Corner of I-70 and 24 Rd
MARIAN JACOBSON, ERIC JACOBSON, &
KIRSTEN JACOBSON

MATCH LINE

67+50 | 68+00 | 68+50 | 69+00 | 69+50

24 RD LT CONTROL LINE

BARBED WIRE | BARBED WIRE | BARBED WIRE

10"PVC

24 ROAD

24 RD CENTERLINE

~EX ASPH~

2' C&G | 2' C&G

GUARD RAIL | GUARD RAIL | GUARD RAIL

OHP

~DIRT~

726 24 RD

CP /ROD/
N 51369.8280
E 78905.04
EL 4572.23

MATCH LINE

2701-333-00-152
728 24 RD
CITY OF GRAND JUNCTION

2701-333-00-067
726 24 RD
726 24 ROAD LLC

2701-333-00-152
728 24 RD
CITY OF GRAND JUNCTION

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

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 017

30

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:17:32 AM

2701-324-00-092
Southwest Corner of I-70 and 24 Rd
MARIAN JACOBSON, ERIC JACOBSON, &
KIRSTEN JACOBSON

W
S
N
E

IRRIG
JUNCTION
STRUCTRURE

18"PVC
18"PVC
18"PVC

CULVERT
CULVERT
CULVERT

BARBED WIRE
BARBED WIRE

~DIRT~

LITE
ABANDON

4'CHAINLINK

8'WALK
8'WALK

70+50
71+00
71+50
72+00

45 MPH

2.5' C&G
2.5' C&G

24 RD LT CONTROL LINE

TYPE 3 BARRICADE

CP /PK/
N 51746.0360
E 78837.82
EL 4575.10

MATCH LINE

24 ROAD

24 RD CENTERLINE

70+50
71+00
71+50
72+00
72+50

24" RCP

~EX ASPH~

~ASPH~

SIDEWALK DRAIN TROUGH

2' C&G

2.5'C&G
2.5'C&G

4'WALK
4'WALK
WALK

4'CHAINLINK
4'CHAINLINK

OHP

CANYON VIEW
PARK

GUARD RAIL
GUARD RAIL

STOP

~DIRT~

24"RCP

8'WALK

2701-333-00-152
728 24 RD
CITY OF GRAND JUNCTION

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 018

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:17:38 AM

2701-324-00-092
Southwest Corner of I-70 and 24 Rd
MARIAN JACOBSON, ERIC JACOBSON, &
KIRSTEN JACOBSON

MATCH LINE

~DIRT~

4'CHAINLINK

8'WALK

2.5' C&G

73+50

74+00

74+50

75+00

75+50

24 ROAD

24 RD CENTERLINE

~EX ASPH~

1.5' C&G

KEEP RT

CONC MEDIAN

W/L

2701-333-00-152
728 24 RD
CITY OF GRAND JUNCTION

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

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE

0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 019

32

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:17:44 AM

2945-051-14-001
665 24 RD
CC GRAND JUNCTION LLC

MATCH LINE

N
W E
S

1+50 2+00 2+50 3+00 3+50

MATCH LINE

F 1/2 ROAD

2945-054-01-002 2383 F 1/2 RD LUCERO LLC

2945-054-01-001 2385 F 1/2 RD LUCERO LLC

2945-054-02-002 EASTER LIVING TRUST

2945-054-02-001 649 24 RD TED A MARTIN

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 020

33

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:17:50 AM

2945-051-14-001
665 24 RD
CC GRAND JUNCTION LLC

N
W E
S

MATCH LINE

4+50 5+00 5+50 6+00 6+50 7+00

HVOHP HVOHP HVOHP HVOHP HVOHP HVOHP HVOHP

PNT 9997?
F3-232-003
RIM 4552.42
INV E 4540.54
INV W 4540.54

F 1/2 ROAD

MATCH LINE

2945-054-02-004 2389 F 1/2 RD TRIPLE A DRILLING CO LTD

2945-054-02-003 2393 F 1/2 RD EASTER LIVING TRUST

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 021

34

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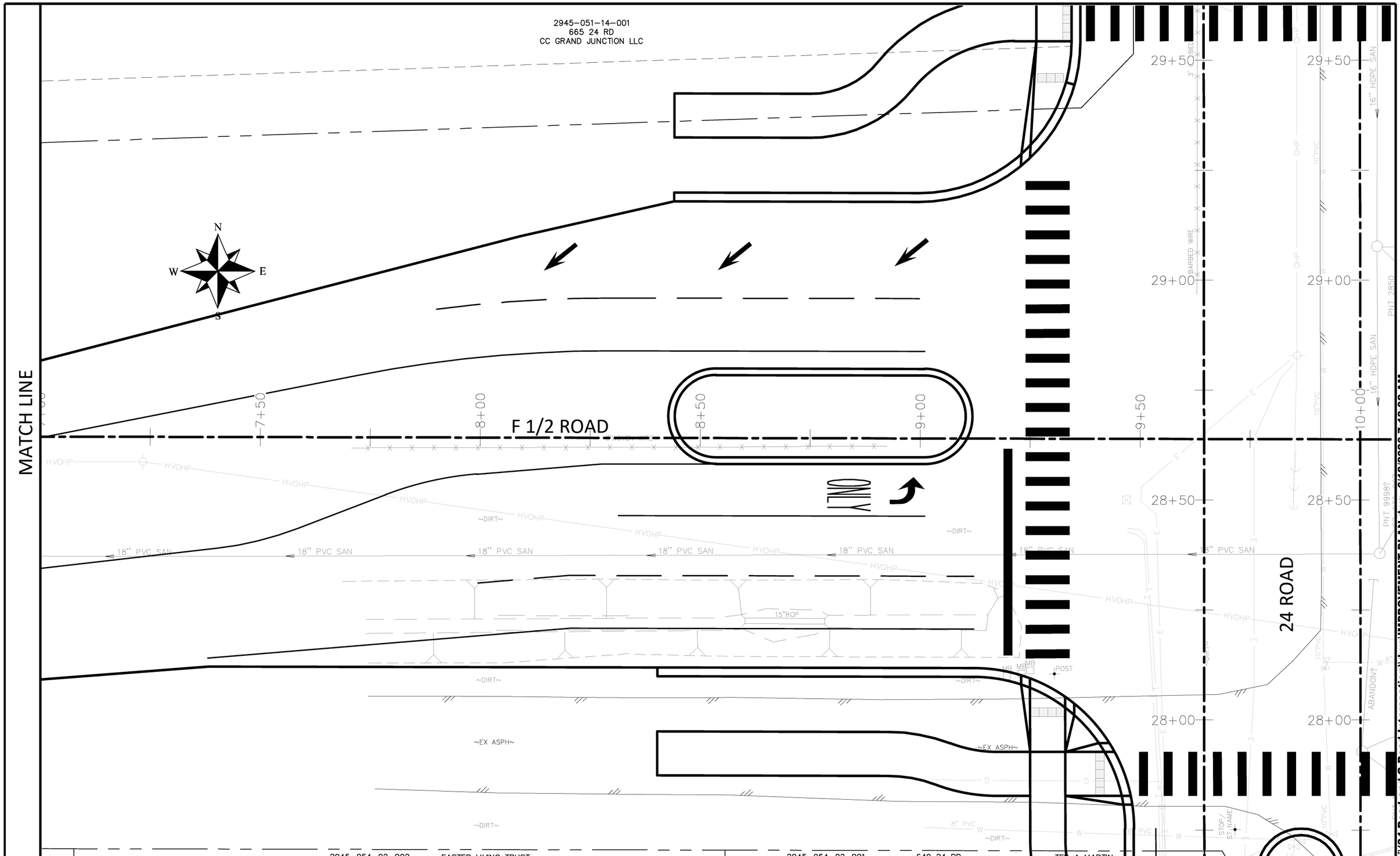

DESCRIPTION	DATE
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REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE

0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 022

35

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:18:02 AM

2945-051-14-001
665 24 RD
CC GRAND JUNCTION LLC

N
W E
S

F 3/4 ROAD

2+50
3+00
3+50
4+00
4+50
5+00

42+00
41+50
41+00
40+50

~DIRT~
OHP
10"PVC
12" HDPE SAN
16" HDPE SAN
PNT 13860
F3-232-008
RIM 4558.80
INV E 4546.50
CONC COLLAR
CONC EE

24 ROAD

2945-051-14-001
665 24 RD
CC GRAND JUNCTION LLC

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 023

36

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:18:09 AM

2945-051-18-002
2385 G RD
WDM CORPORATION

N
W E
S

0+00 0+50 1+00 MOJO STREET 1+50 2+00 2+50

8" PVC SAN 8" PVC SAN 8" PVC SAN

MATCH LINE

2945-051-00-095
MONUMENT INVESTMENT COMPANY LLC

2945-051-00-096
683 G RD
2J DEVELOPMENT LLC

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 024

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2945-051-18-002
2385 G RD
WDM CORPORATION

MATCH LINE

MOJO STREET

24 ROAD

2945-051-00-096
683 G RD
2J DEVELOPMENT LLC

3+50 4+00 4+50 5+00

48+50 48+00 47+50

7'C,G,&SW

8" PVC SAN

12" PVC SAN

18"RCP

PNT 11808
F4-232-009
GRATE 4561.72
INV W 4558.52
INV E 4558.47

PNT 11927
F4-232-004
RIM 4562.46
INV W 4548.56
INV N 4548.50
INV S 4548.50

CP /ROD DWY GG/
N 49255.3490
E 73896.01
EL 4561.90

~EX ASPH~
~DIRT~
2' C&G
4' BARBED WIRE
STOP/ ST NAME
DELINEATOR
OHP

N
W E
S

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 025

38

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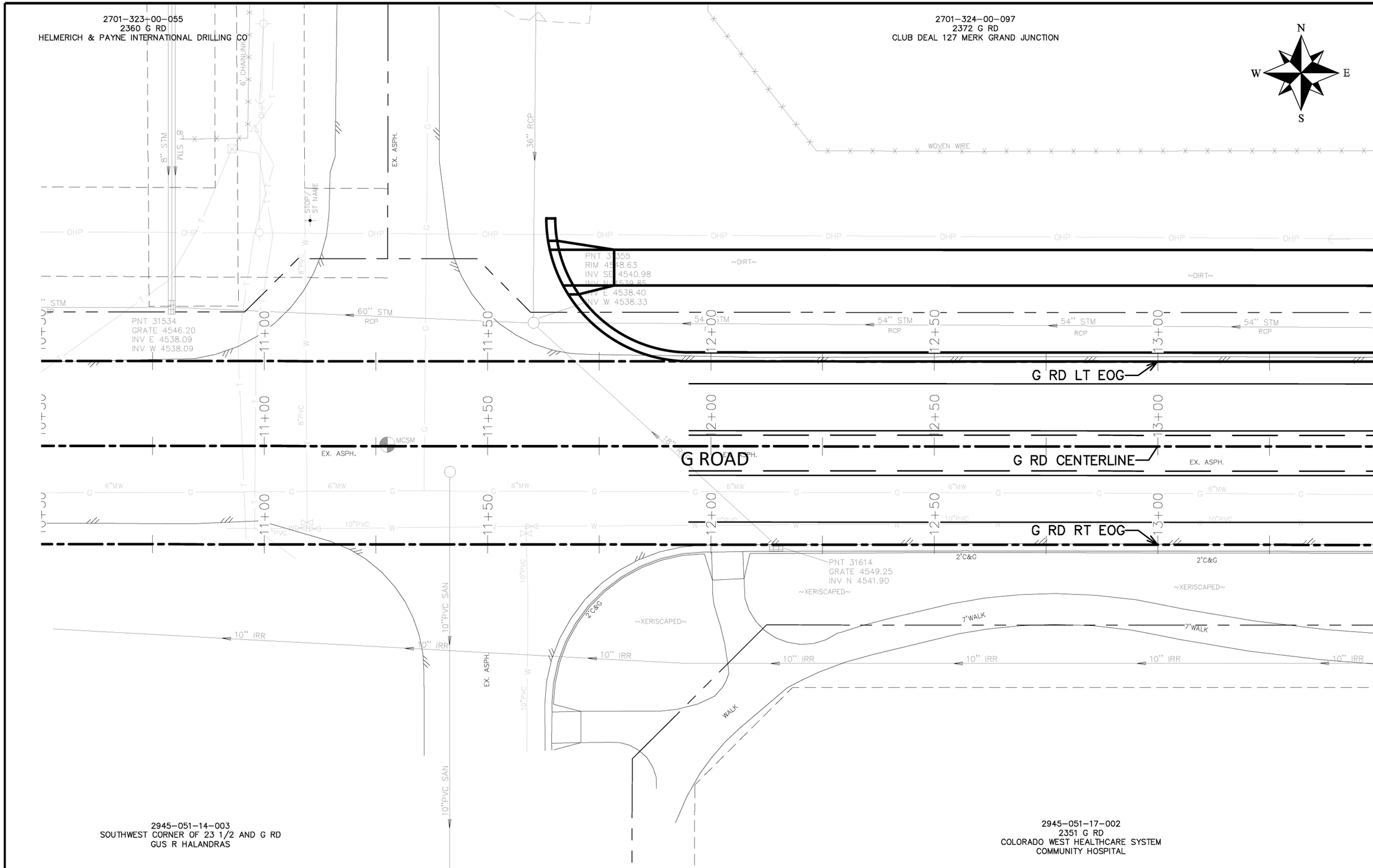

DESCRIPTION	DATE
REVISION 1 REV 1	DATE
REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN - 026

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2701-324-00-097
2372 G RD
CLUB DEAL 127 MERK GRAND JUNCTION

N
W E
S

MATCH LINE

WOVEN WIRE
OHP
~DIRT~
54" STM RCP
14+00
14+50
15+00
15+50
16+00
PNT 31111
GRATE 4550.69
INV E 4541.50
INV W 4541.50
G RD LT EOG
EX. ASPH.
G ROAD
EX. ASPH.
G RD CENTERLINE
6"MW
10"PVC
G RD RT EOG
2'C&G
~XERISCAPED~
6"CURB
6' VPAN
7'WALK
10" IRR

2945-051-17-002
2351 G RD
COLORADO WEST HEALTHCARE SYSTEM
COMMUNITY HOSPITAL

MATCH LINE

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:18:34 AM

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

DRAWN BY JCS DATE 2020 SCALE
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 027

2701–324–00–097
2372 G RD
CLUB DEAL 127 MERK GRAND JUNCTION

N
W E
S

MATCH LINE

WOVEN WIRE

10"PVC

OHP

~DIRT~

~ROCKS~

54" STM RCP

WALK

6"CURB

12"PVC

17+00 17+50 18+00 18+50 19+00

G RD LT EOG

EX. ASPH.

G ROAD

G RD CENTERLINE

6"MW

G

W

G RD RT EOG

2'C&G

~XERISCAPED~

7'WALK

10" IRR

2945–051–17–002
2351 G RD
COLORADO WEST HEALTHCARE SYSTEM
COMMUNITY HOSPITAL

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

DRAWN BY	JCS	DATE 2020	SCALE
DESIGNED BY	JCS	DATE 2020	
CHECKED BY	ALC	DATE 2020	
APPROVED BY	TCP	DATE 2020	

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207–F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 028

41

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:18:40 AM

2701-324-00-097
2372 G RD
CLUB DEAL 127 MERK GRAND JUNCTION

MATCH LINE

MATCH LINE

BUS SHELTER
CONCRETE WALK
CONCRETE BUS PULLOUT
~ROCKS~
~DIRT~
~DIRT~
WOVEN WIRE
WOVEN WIRE
6"CURB
54" STM RCP
54" STM RCP
54" STM RCP
54" STM RCP
54" STM RCP
54" STM RCP
54" STM RCP
20+00
20+50
21+00
21+50
22+00
EX. ASPH. CIP
MB
PNT 30883
RIM 4553.71
INV S 4543.19
INV E 4543.19
30997
N 4548.96
FIBER OPTIC
G RD LT EOG
G ROAD
G RD CENTERLINE
EX. ASPH.
EX. ASPH.
EX. ASPH.
6"MW
G
W
G RD RT EOG
CONCRETE BUS PULLOUT
6"CURB
2'C&G
2'C&G
2'C&G
~XERISCAPED~
~XERISCAPED~
6"VPAN
6"CURB
6"CURB
6"SVC W
EX. ASPH.
BUS SHELTER
CONCRETE WALK
7'WALK
7'WALK
7'WALK
10" IRR
10" IRR
10" IRR
10" IRR
10" IRR
10" IRR
10" IRR

2945-051-17-002
2351 G RD
COLORADO WEST HEALTHCARE SYSTEM
COMMUNITY HOSPITAL

2945-051-17-001
2373 G RD
GAHC4 GRAND JUNCTION CO MOB LLC
CANYON VIEW MEDICAL PLAZA

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 2020 SCALE
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 029

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2701-324-00-097
2372 G RD
CLUB DEAL 127 MERK GRAND JUNCTION

2701-324-00-093
Northwest Corner of G and 24 Rd
USHER NV LLC

23 3/4 ROAD

MATCH LINE

MATCH LINE

G RD LT EOG

G ROAD

G RD CENTERLINE

G RD RT EOG

5+00

PNT 30736
RIM 4556.41
INV N 4544.93
INV E 4545.23
INV W 4544.93

PNT 30691
RIM 4556.81
INV N 4549.11
INV E 4548.20
INV W 4548.20

PNT 30542
GRATE 4556.57
INV E 4553.09
INV W 4553.09

2945-051-17-001
2373 G RD
GAHC4 GRAND JUNCTION CO MOB LLC
CANYON VIEW MEDICAL PLAZA

2945-051-00-068
2379 G RD
FAMILY LLC

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

DRAWN BY JCS DATE 2020 SCALE
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 030

43

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:18:53 AM

2701-324-00-093
Northwest Corner of G and 24 Rd
USHER NV LLC

N
W E
S

MATCH LINE

MATCH LINE

BARBED WIRE
BARBED WIRE
BARBED WIRE
8" PVC SAN
8" PVC SAN
E E E

2701-324-00-093
Northwest Corner of G and 24 Rd
USHER NV LLC

N
W E
S

MATCH LINE

BARBED WIRE

~DIRT~

OHP

RIM 4559.50
INV E 4550.73
INV W 4550.73

24" RCP STM

29+00 29+50 30+00 30+50 31+00

BIKE

G RD LT EOG

EX. ASPH.

G ROAD

G RD CENTERLINE

6"MW G

T W 10"PVC

G RD RT EOG

CONC DITCH

12"CMP

6"CURB EX. ASPH. 8"CURB

TREE 12"

2945-051-18-002
2385 G RD
WDM CORPORATION

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 2020 SCALE
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

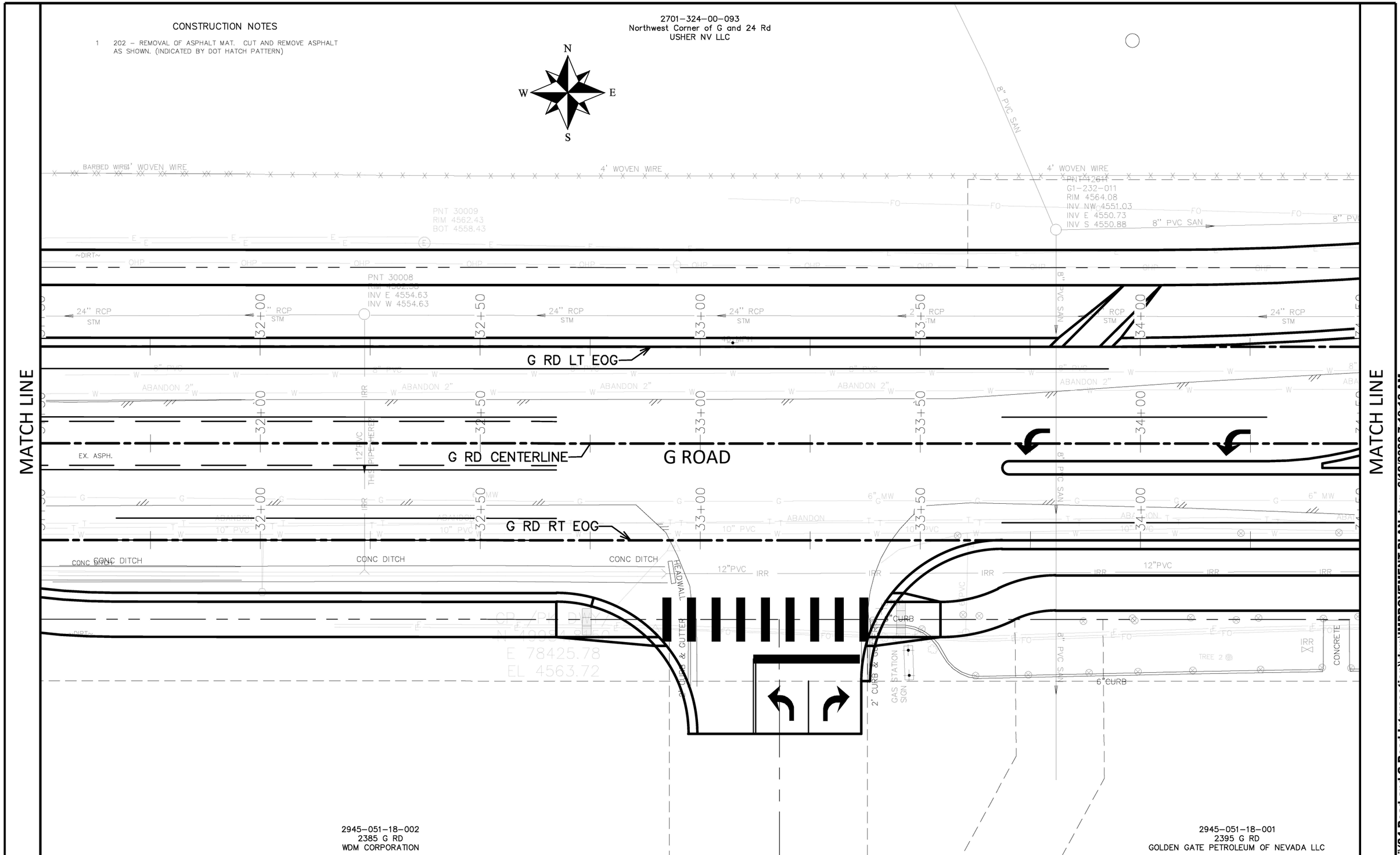
24 ROAD AND G ROAD
IMPROVEMENT PLAN – 032

45

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:19:06 AM

CONSTRUCTION NOTES

1 202 – REMOVAL OF ASPHALT MAT. CUT AND REMOVE ASPHALT AS SHOWN. (INDICATED BY DOT HATCH PATTERN)



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REVISION 3 REV 3	DATE
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DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 033

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MATCH LINE

MATCH LINE

2701-324-00-093
Northwest Corner of G and 24 Rd
USHER NV LLC

PNT 11070
RIM 4568.81
12" CONC IN N 4563.26
12 OUT W&S 4563.26
12" CONC OUT E 4563.01

PNT 11076
G1-232-012
RIM 4566.78
INV E 4551.54
INV W 4549.93
INV S 4549.87

PNT 110
G1-232-
GRATE 4
INV W 4
INV E 4

4' WOVEN WIRE
4' BARBED WIRE
8" PVC SAN
12" RCP
12" CONC IRR
12"PVC IRR
IRRIGATION RISER
12" PVC SAN
IRR
SAN
FO
OHP
T
E
W
G
TRAFF
ABANDON
ABANDON 2"
10" PVC
6" MW
12" PVC SAN
1 1/4" PE

55+50
55+00
54+50
54+00
35+00
35+50
36+00
36+50
37+00

G ROAD

24 ROAD

~EX ASPH~
~YARD~
~GRAVEL~
YARD EDGE

this a bend?

6"CURB
IRRIGATION CONTROL BOXES
TREE 2
TV

PED HEAD

PNT 0207
RIM 4556.39
12" CONC IN N 4562.59
12 PVC OUT S 4562.49

PIPE STUBBED 10' SOUTH OF MH CIRCA 1999. IRRIGATION RIGHT STILL EXIST SOUTH

CP 24-G/
N 499747.0
E 1882418
EL 4565.87

N
W
E
S

2945-051-18-001
2395 G RD
GOLDEN GATE PETROLEUM OF NEVADA LLC

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

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 034

47

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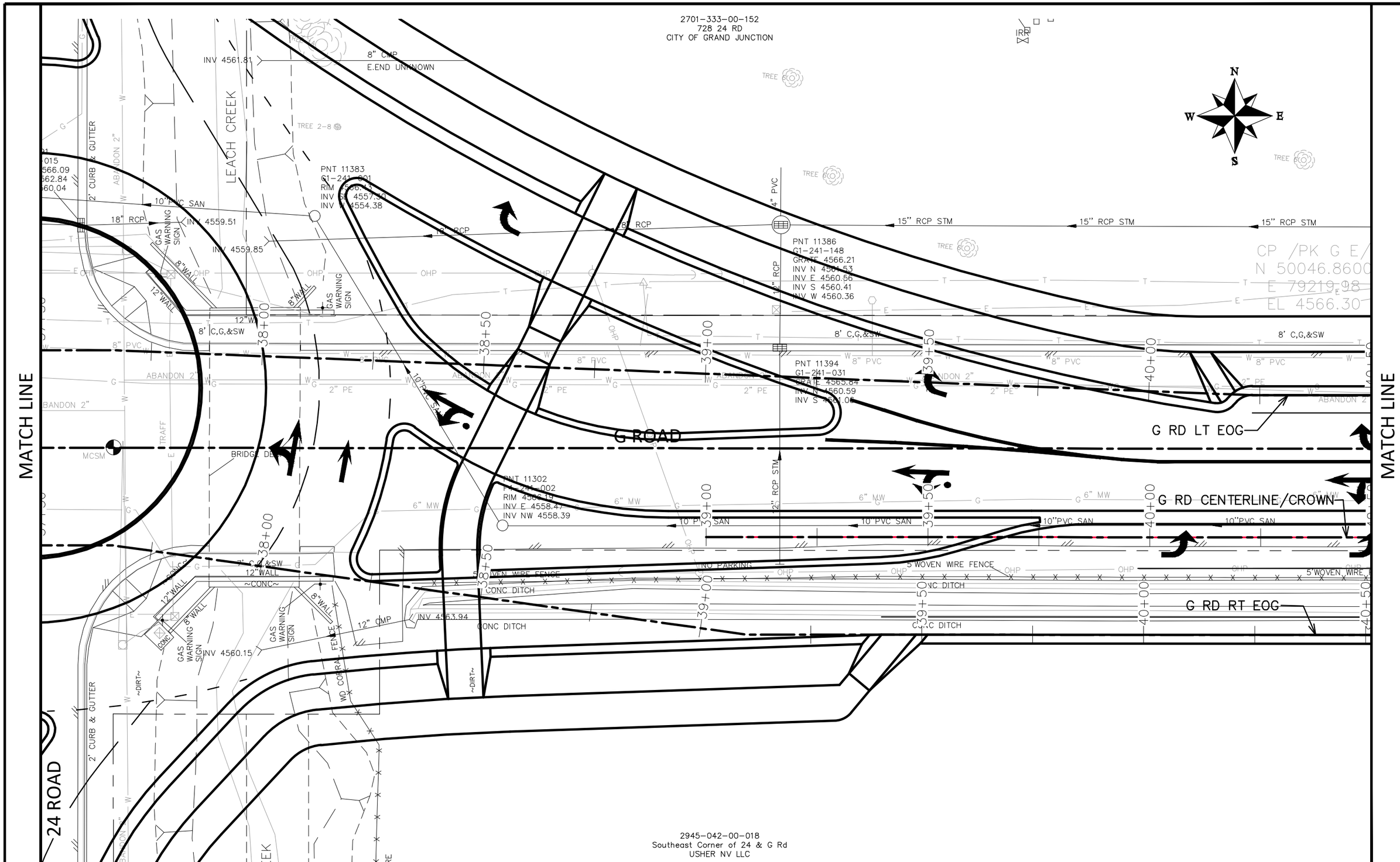

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REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 035

48

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:19:25 AM

2701-333-00-152
728 24 RD
CITY OF GRAND JUNCTION

N
W E
S

6'WALK
2' CURB & GUTTER
PNT 11478
G1-241-032
GRATE 4566.15
INV E 4561.35
INV W 4561.25
PNT 11548
G1-241-033
GRATE 4566.26
INV E 4561.46
INV W 4561.44
15" RCP STM
STOP
TREE
HEDGE
2' CURB & GUTTER
8'WALK
CANYON VIEW 15" CMP STM
PARK
HANDICAPPED PARKING
3' SPLIT RAIL
4"PLS
IRR
PNT 11628
G1-241-034
RIM 4567.22
INV NE 4564.92
INV SE 4562.92
INV E>W 4561.92
HANDICAPPED PARKING
15" CMP STM
15" CMP STM
15" CMP STM
15" CMP STM
6' CHAINLINK
6' CHAINLINK
IRR DRAIN
6"PVC STM
12' MONO WAK,CURB,&VPAN
12' MONO WAK,CURB,&VPAN
PNT 11673
G1-241-012
GRATE 4565.42
INV 4563.22
2' C&G
41+00
41+50
42+00
42+50
43+00
8" PVC
2" PE
ABANDON 2
G RD LT EOG

MATCH LINE

G ROAD

6" MW
10"PVC SAN
NO PARKING
OHP
5'WOVEN WIRE FENCE
CONC DITCH
45 MPH/
NO PARKING
PNT 11703
G1-241-003
RIM 4566.81
INV E>W 4560.23
G RD CENTERLINE/CROWN
G RD RT EOG

MATCH LINE

2945-042-00-018
Southeast Corner of 24 & G Rd
USHER NV LLC

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 2020
DESIGNED BY	JCS	DATE 2020
CHECKED BY	ALC	DATE 2020
APPROVED BY	TCP	DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 036

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:19:32 AM

2701-333-00-152
728 24 RD
CITY OF GRAND JUNCTION

N
W E
S

MATCH LINE

~LAWN~

6' CHAINLINK

12' MONO WAK,CURB,&VPAN

44+00 44+50 45+00 45+50 46+00 46+50

G RD LT EOG

EX. ASPH.

G ROAD

10"PVC SAN

6" MW

NO PARKING

OHP

~DIRT~

5'WOVEN WIRE FENCE

CONC DITCH

G RD CENTERLINE/CROWN

G RD RT EOG

MATCH LINE

2945-042-00-018
Southeast Corner of 24 & G Rd
USHER NV LLC

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 037

50

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:19:39 AM

2701-333-00-152
728 24 RD
CITY OF GRAND JUNCTION

N
W E
S

MATCH LINE

~LAWN~

6' CHAINLINK

12' MONO WAK,CURB,&VPAN

47+00 47+50 48+00 48+50 49+00

2" PE

G RD LT EOG

EX. ASPH.

PNT 40230
E4-241-004
RIM 4567.83
INV E 4561.49
INV W 4561.37

G ROAD

6" MW

10"PVC SAN

G RD CENTERLINE/CROWN

~DIRT~

NO PARKING

OHP

5'WOVEN WIRE FENCE

G RD RT EOG

CONC DITCH

12"CMP

12"PVC

MATCH LINE

2945-042-00-018
Southeast Corner of 24 & G Rd
USHER NV LLC

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 038

51

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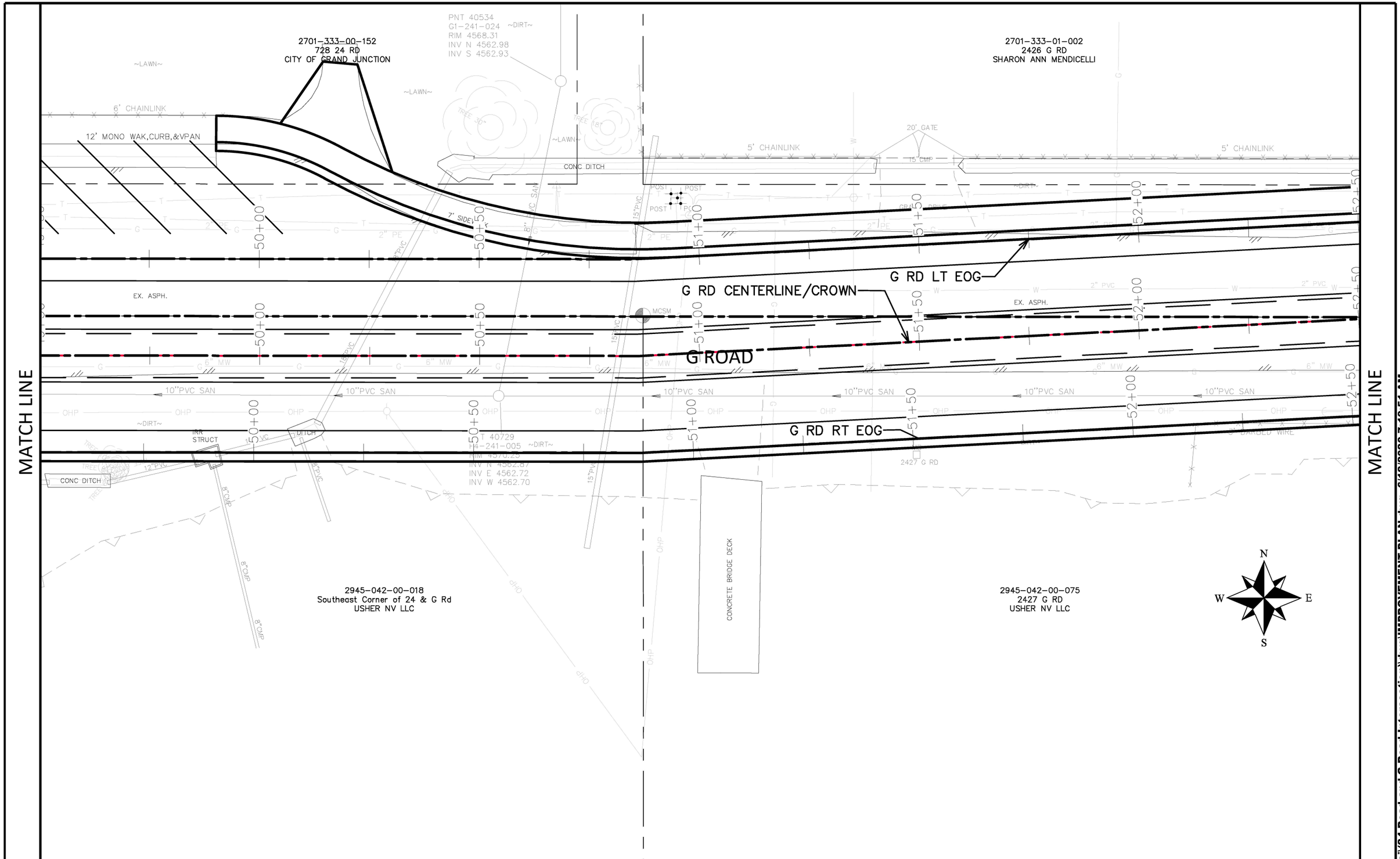

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APPROVED BY	TCP	DATE	2020

SCALE

0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN - 039

52

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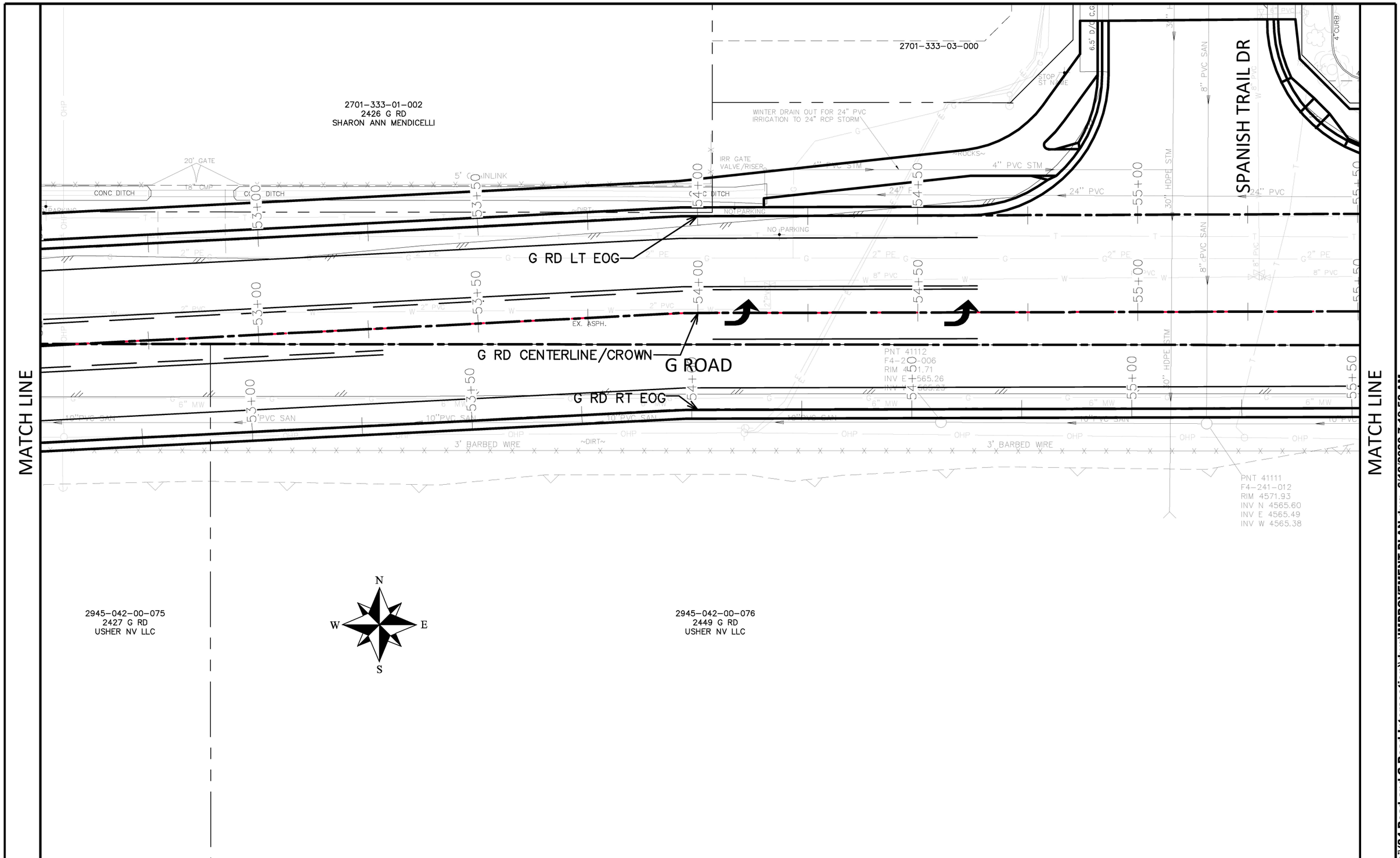

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REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

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DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN - 040

53

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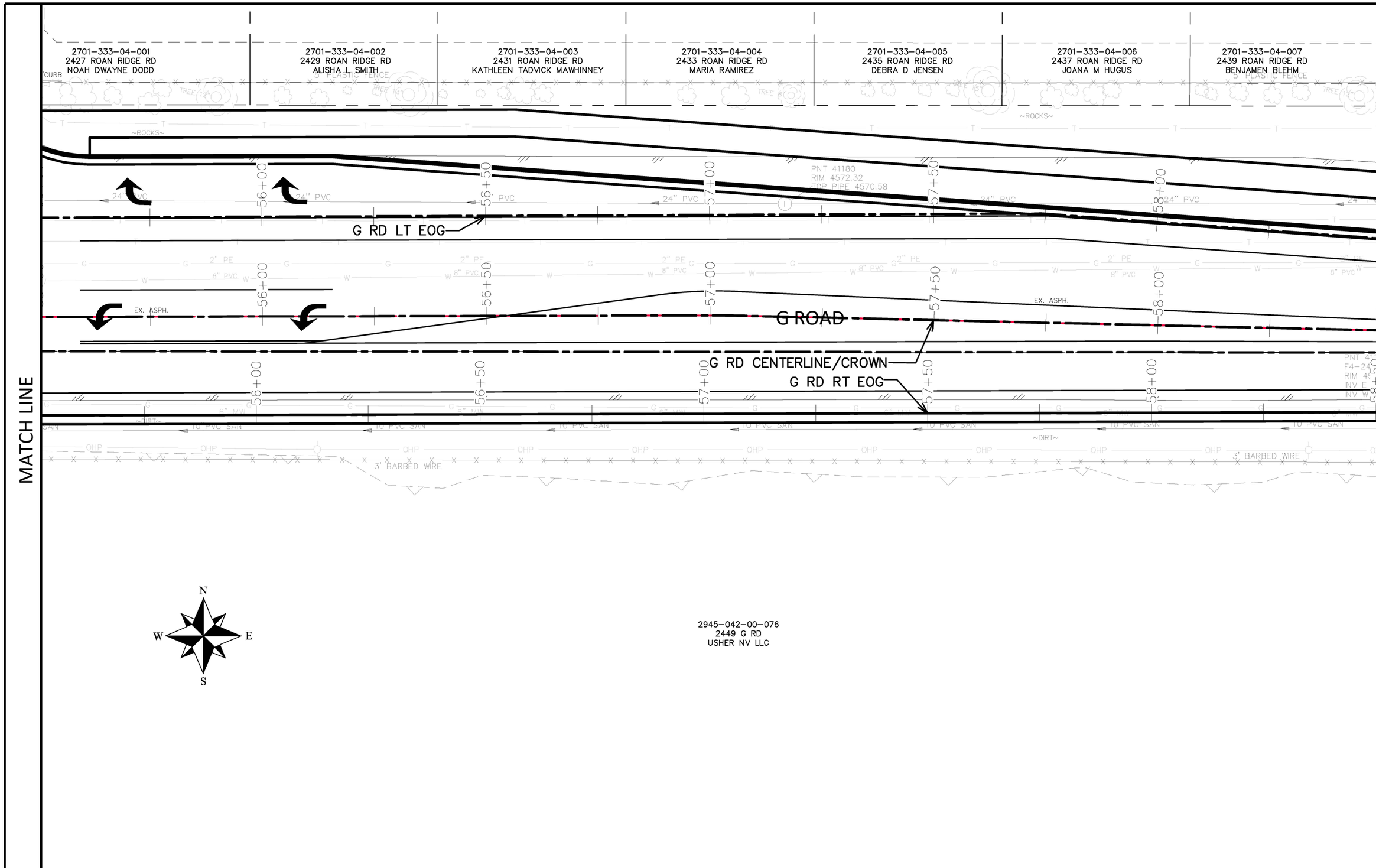

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DRAWN BY	JCS	DATE	2020
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CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE

0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 041

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:20:04 AM

MATCH LINE

2701-333-04-008
2441 ROAN RIDGE RD
ROBERT W BORUTA

2701-333-04-009
2443 ROAN RIDGE RD
CYDNE SIMONS

2701-333-04-010
2445 ROAN RIDGE RD
ERNESTO ZEBADA JR

2701-333-04-011
2447 ROAN RIDGE RD
TIFFANY PEHL

2701-333-00-147
701 24 1/2 ROAD
RIVER OF LIFE ALLIANCE CHURCH

5' PLASTIC FENCE

IRR

4" PVC

YARD EDGE

4" PVC

~ROCKS~

EMERGENCY ACCESS LANE

24" PVC

CONC DITCH

DELINEATOR

8" PVC

G RD LT EOG

EX. ASPH.

G ROAD

G RD CENTERLINE/CROWN

G RD RT EOG

59+00 | 59+50 | 60+00 | 60+50 | 61+00 | 61+50

6" MW

10 PVC SAN

OHP

3' BARBED WIRE

2945-042-00-076
2449 G RD
USHER NV LLC

N
W E
S

MATCH LINE

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:20:11 AM

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 3 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 042

MATCH LINE

MATCH LINE

2701-333-00-147
701 24 1/2 ROAD
RIVER OF LIFE ALLIANCE CHURCH

2945-042-00-076
2449 G RD
USHER NV LLC

G ROAD

G RD LT EOG

G RD CENTERLINE/CROWN

G RD RT EOG

EX. ASPH.

EX. ASPH.

PNT 41504
G1-241-002
RIM 4573.96
INV E 4568.82

PNT 41541
G1-241-134
GRATE 4575.20
INV NE 4570.60
INV SE 4569.05

PNT 41654
F4-241-015
GRATE 4575.15
INV N-S 4568.6

PNT 41687
F4-241-008
RIM 4574.88
INV N 4568.45
INV W 4568.27

62+00

62+50

63+00

63+50

63+88

6' WALK

2'C&G

2'C&G

24" RCP

18" RCP

10"PVC SAN

8" PVC

6" MW

2" PE

CONC DITCH

YARD EDGE

~YARD~

~ROCKS~

~DIRT~

OHP

CONC.

N

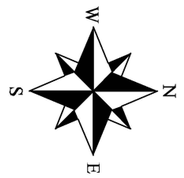
S

E

W

N:\Landproj\(24 Road and G Road Intersection)\dwg\IMPROVEMENT PLAN.dwg, 6/12/2020 7:20:18 AM

2945-051-17-001
2373 G RD
GAHC4 GRAND JUNCTION CO MOB LLC
CANYON VIEW MEDICAL PLAZA



0+00
0+50
1+00
1+50
2+00
2+50

23 3/4 ROAD

MATCH LINE

2945-051-00-068
2379 G RD
FAMILY LLC

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 044

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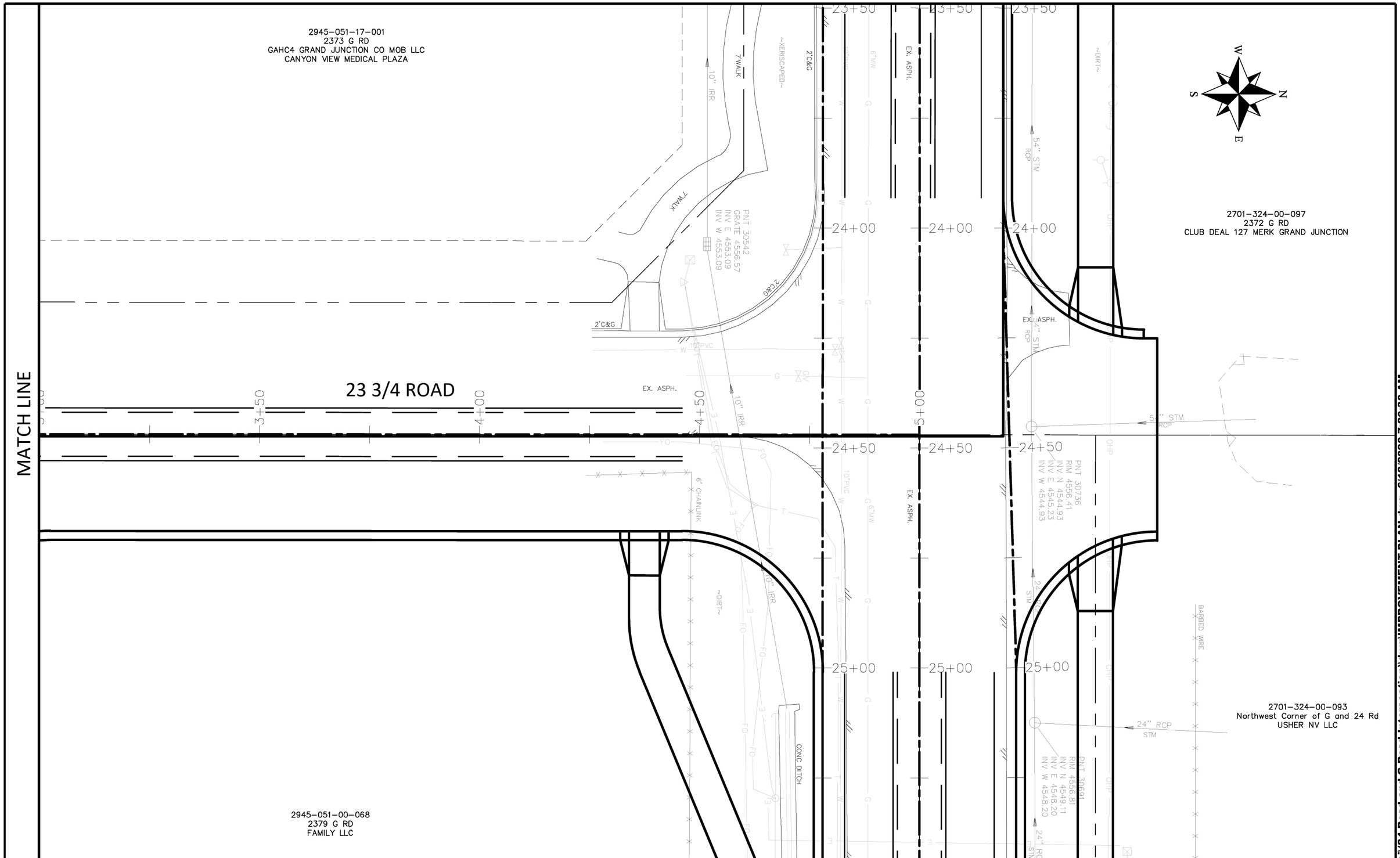

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APPROVED BY	TCP	DATE	2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
IMPROVEMENT PLAN – 045

58

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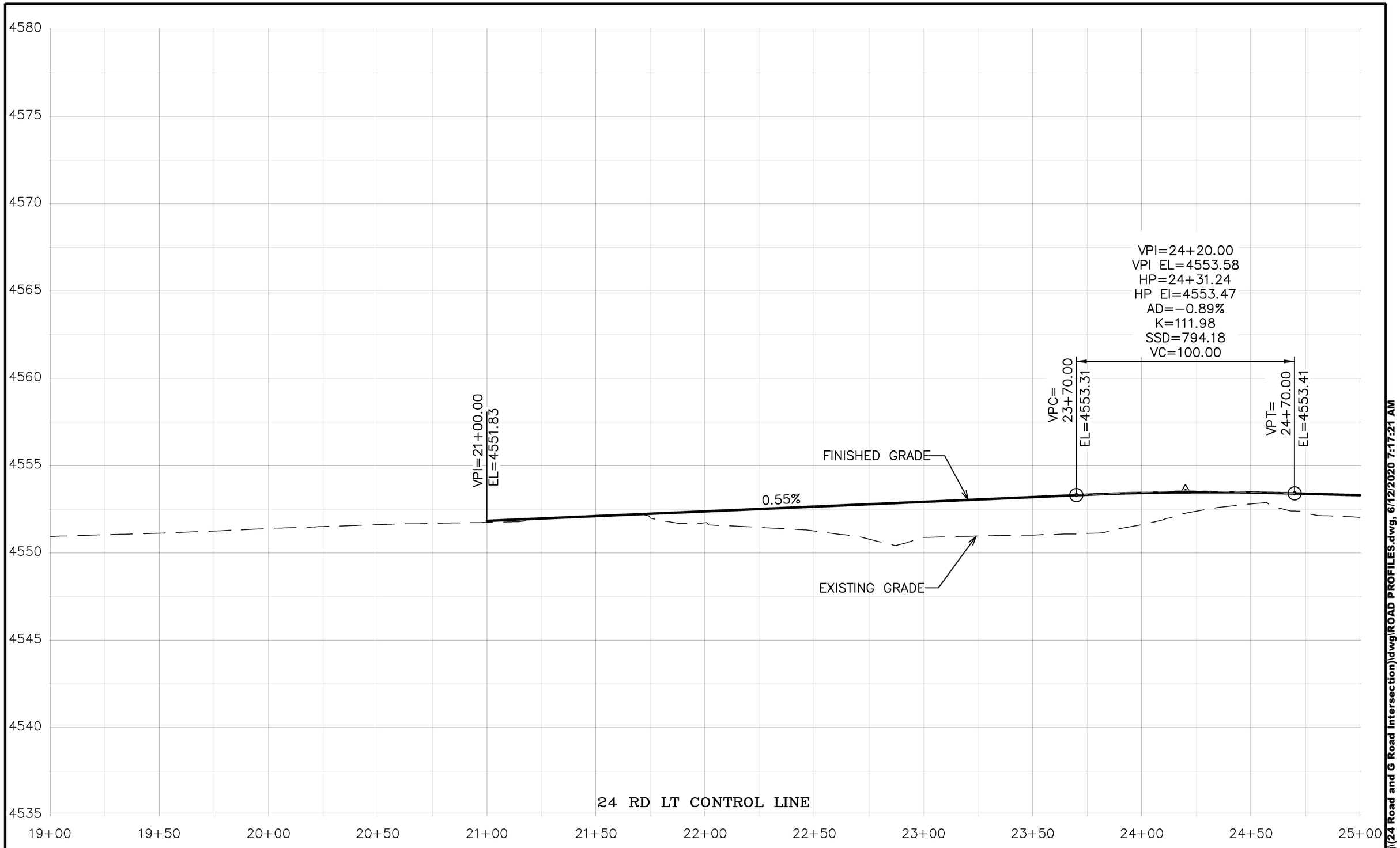

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REVISION 3 REV 3	– DATE
REVISION 4 REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

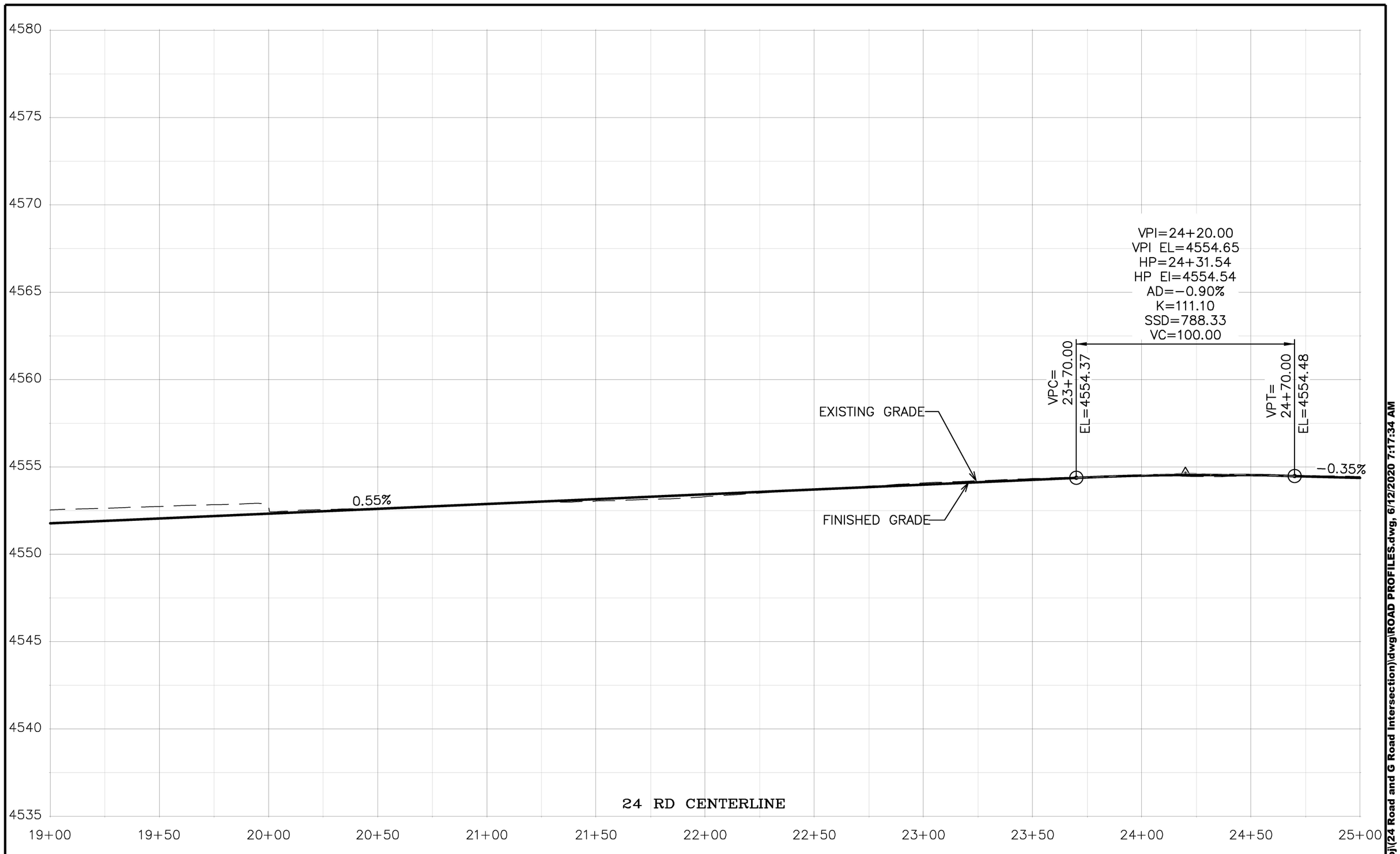
SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 1

N:\Landproj\(24 Road and G Road Intersection)\dwg\ROAD PROFILES.dwg, 6/12/2020 7:17:21 AM



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DESIGNED BY JCS DATE 2020
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APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207–F1903

24 ROAD AND G ROAD
ROAD PROFILES – 2

60

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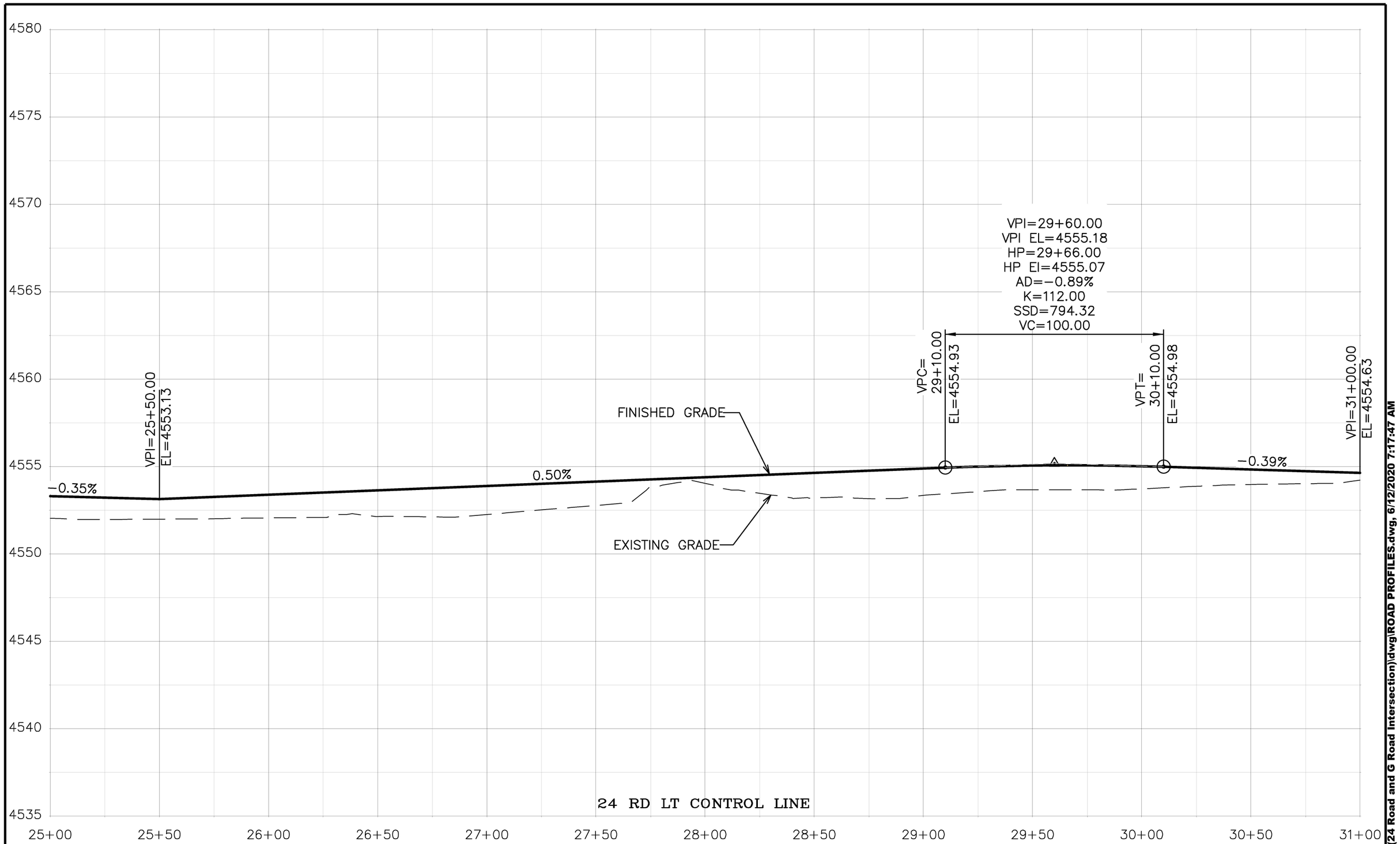

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REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY	JCS	DATE 2020
DESIGNED BY	JCS	DATE 2020
CHECKED BY	ALC	DATE 2020
APPROVED BY	TCP	DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 3

61

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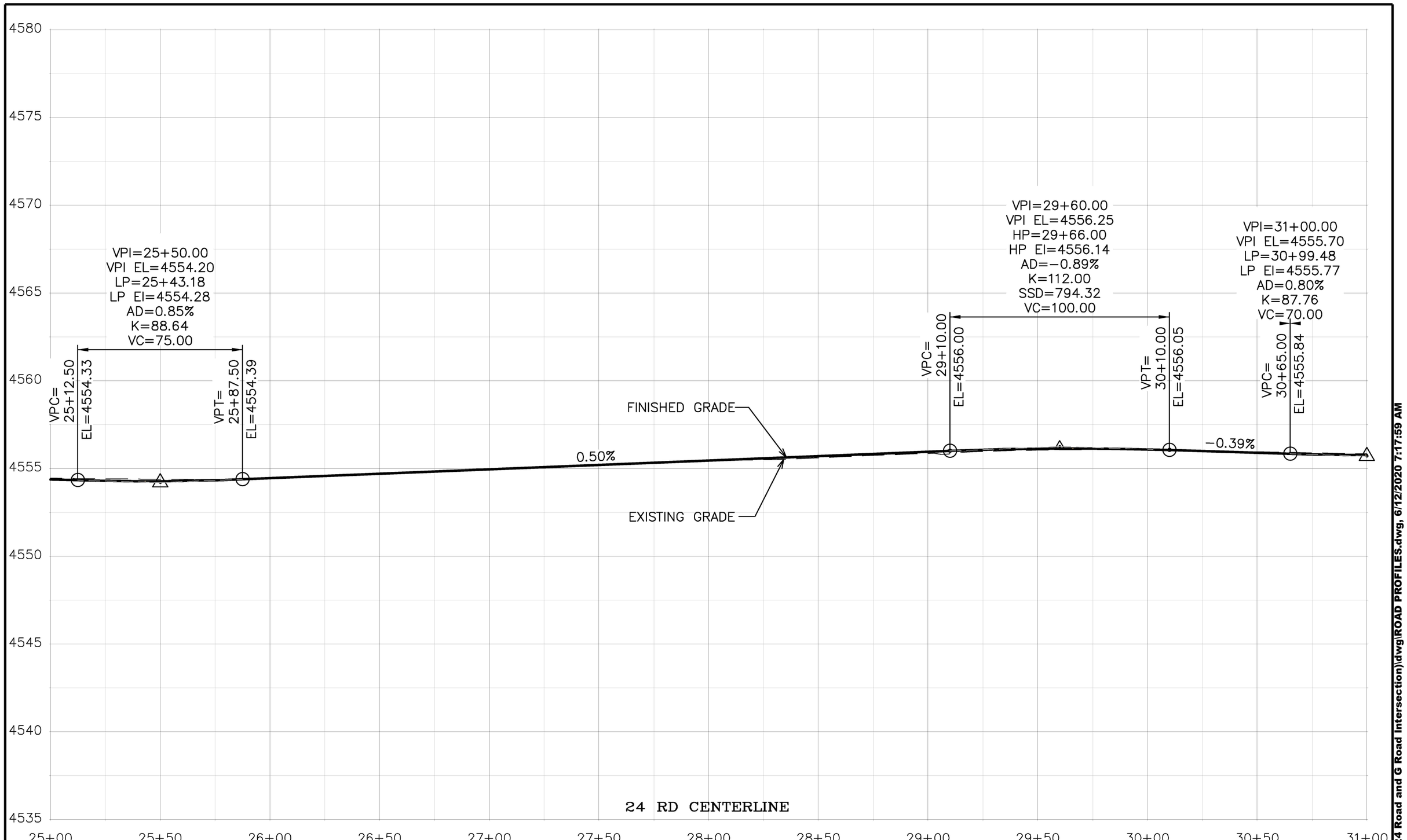

DESCRIPTION	DATE
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REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207–F1903

24 ROAD AND G ROAD
ROAD PROFILES – 4

62

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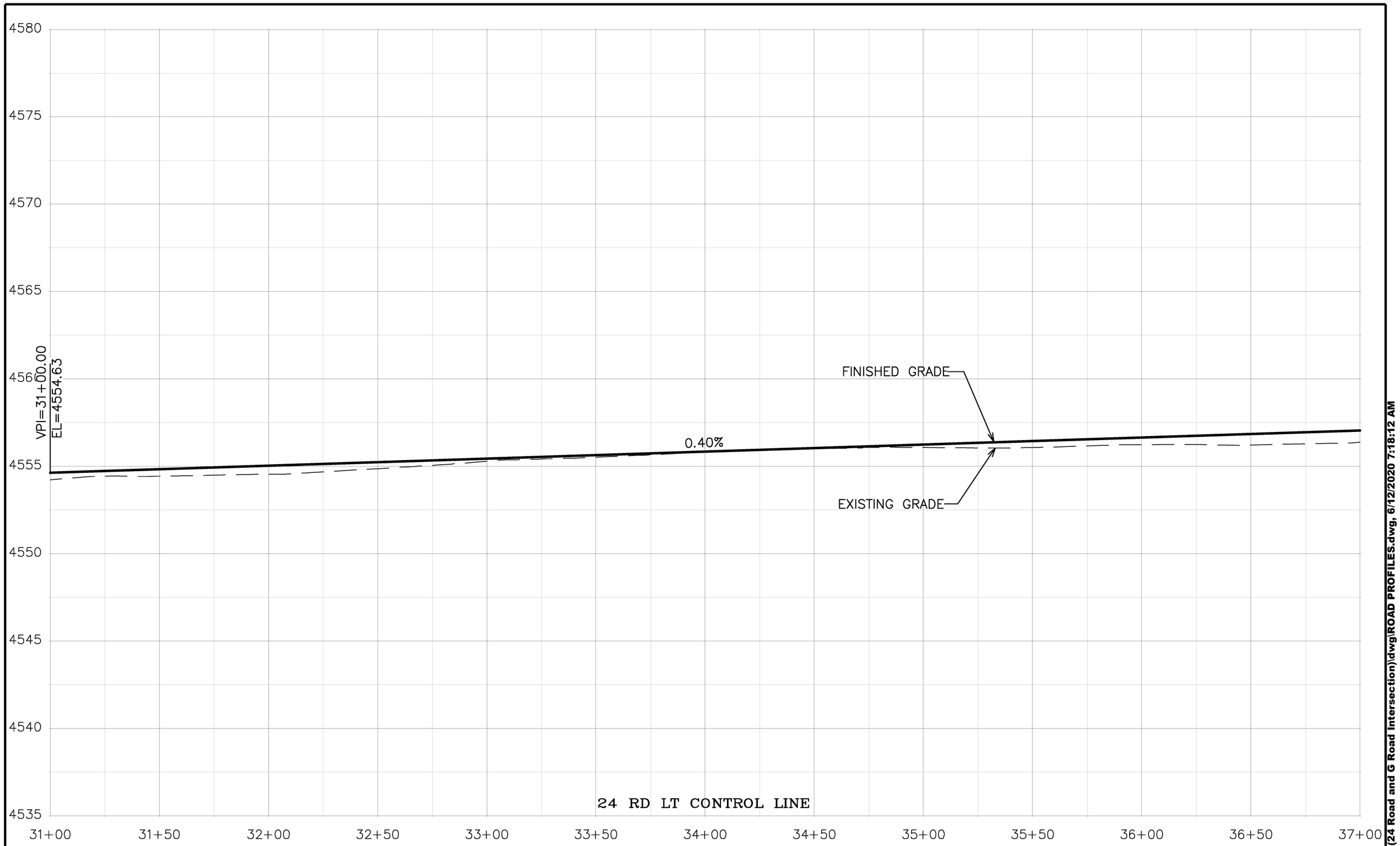

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REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 5

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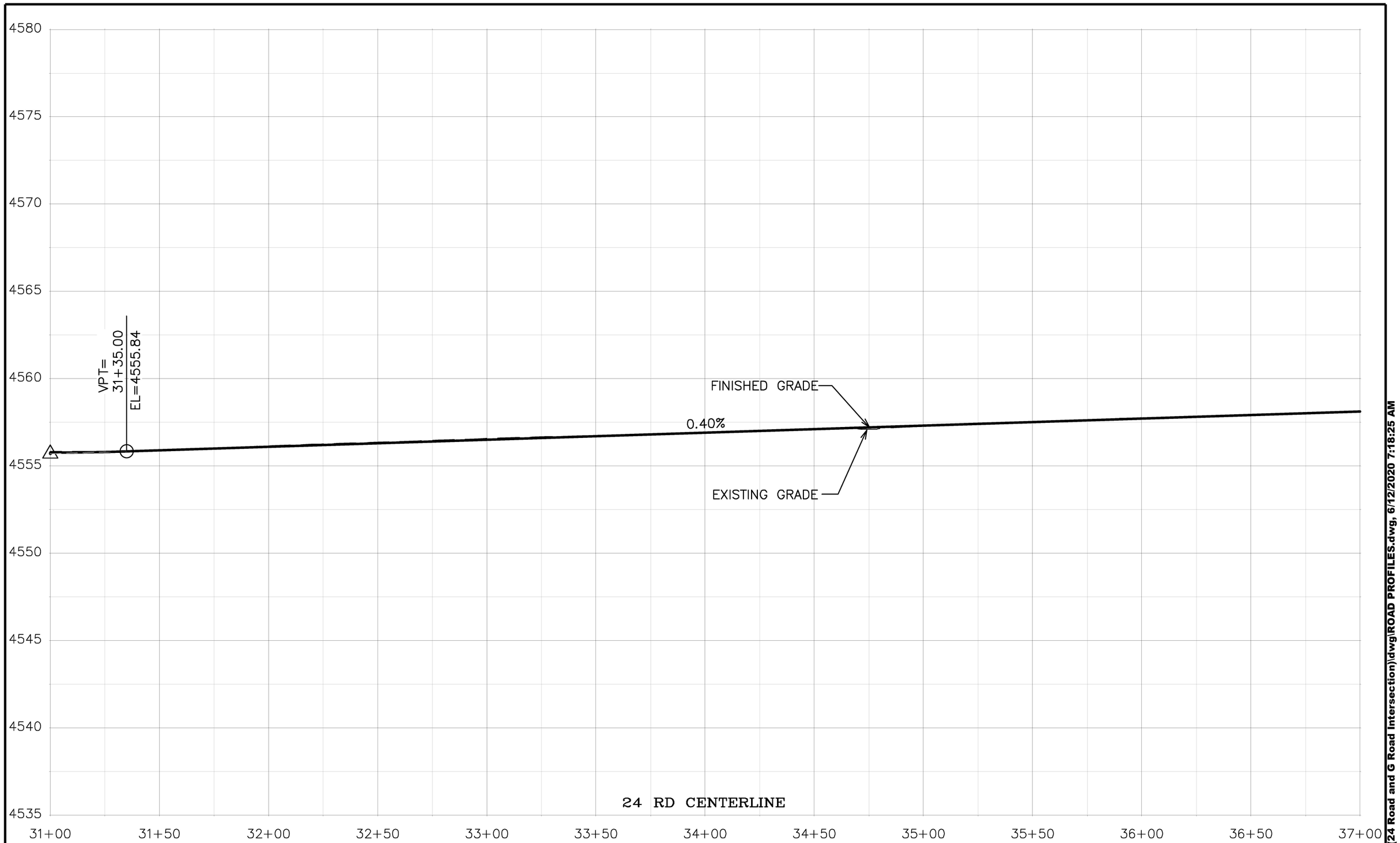

DESCRIPTION	DATE
REVISION ⚠ REV 1	– DATE
REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 6

64

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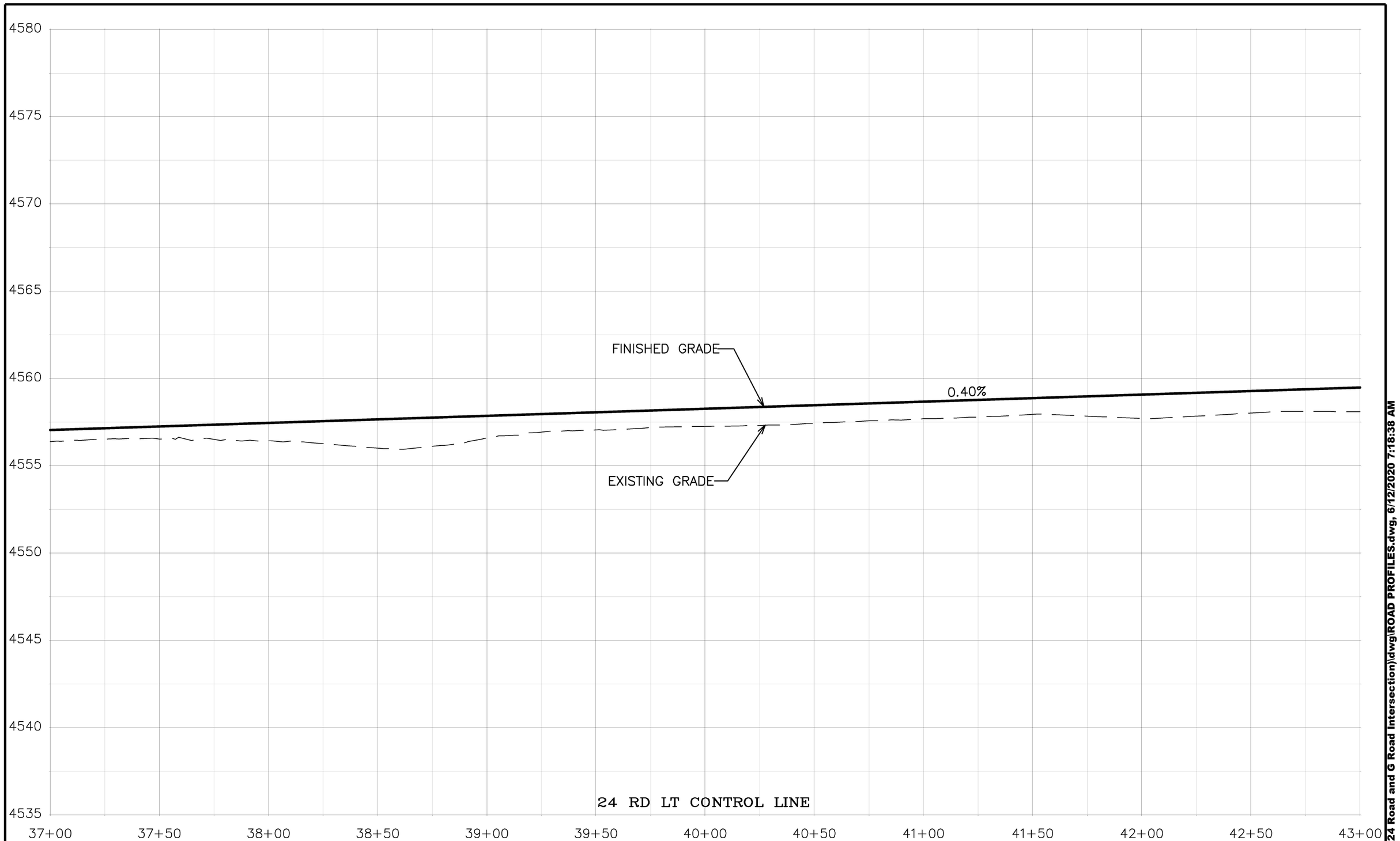

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REVISION ⚠ REV 4	– DATE

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207–F1903

24 ROAD AND G ROAD
ROAD PROFILES – 7

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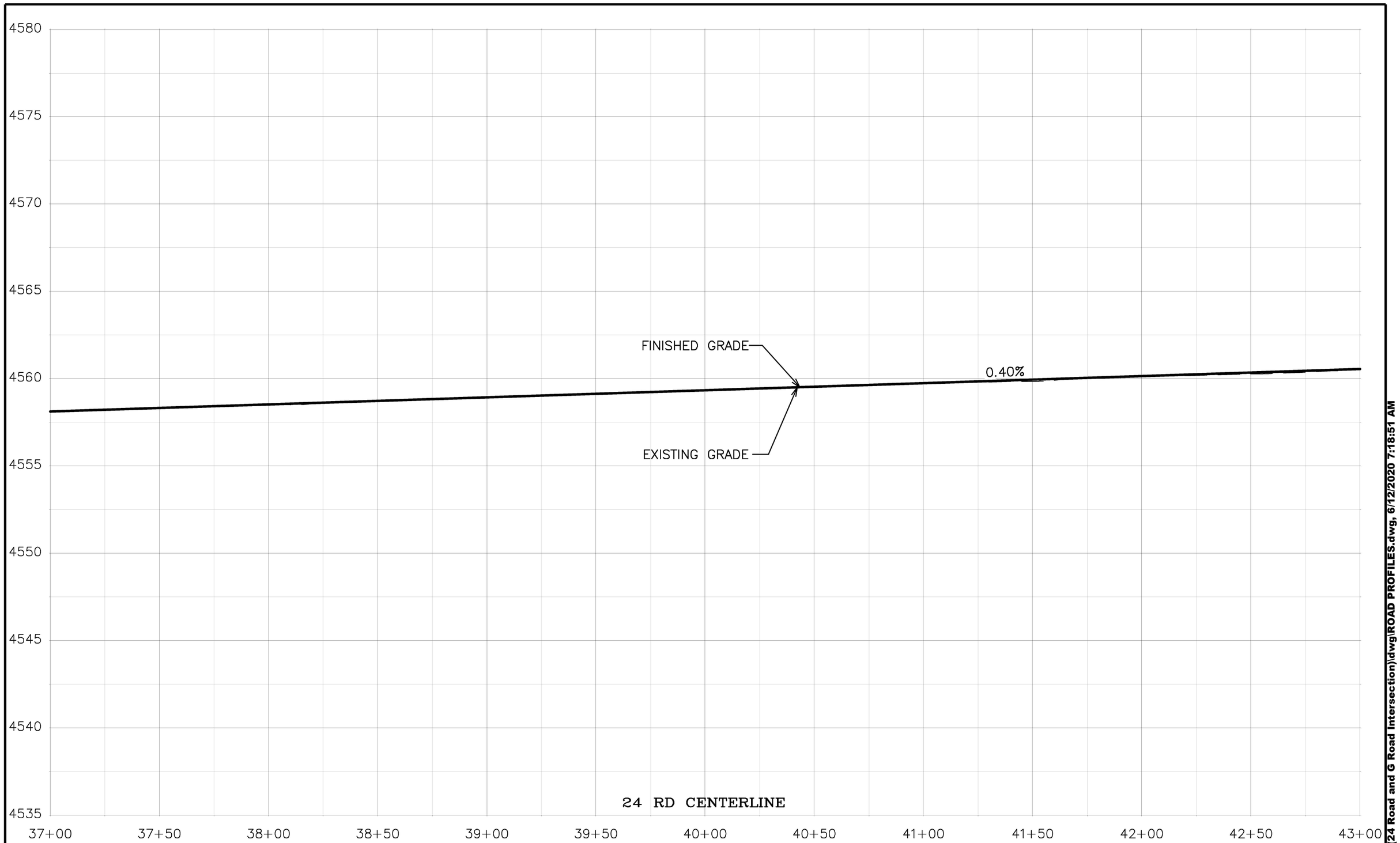

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 8

66

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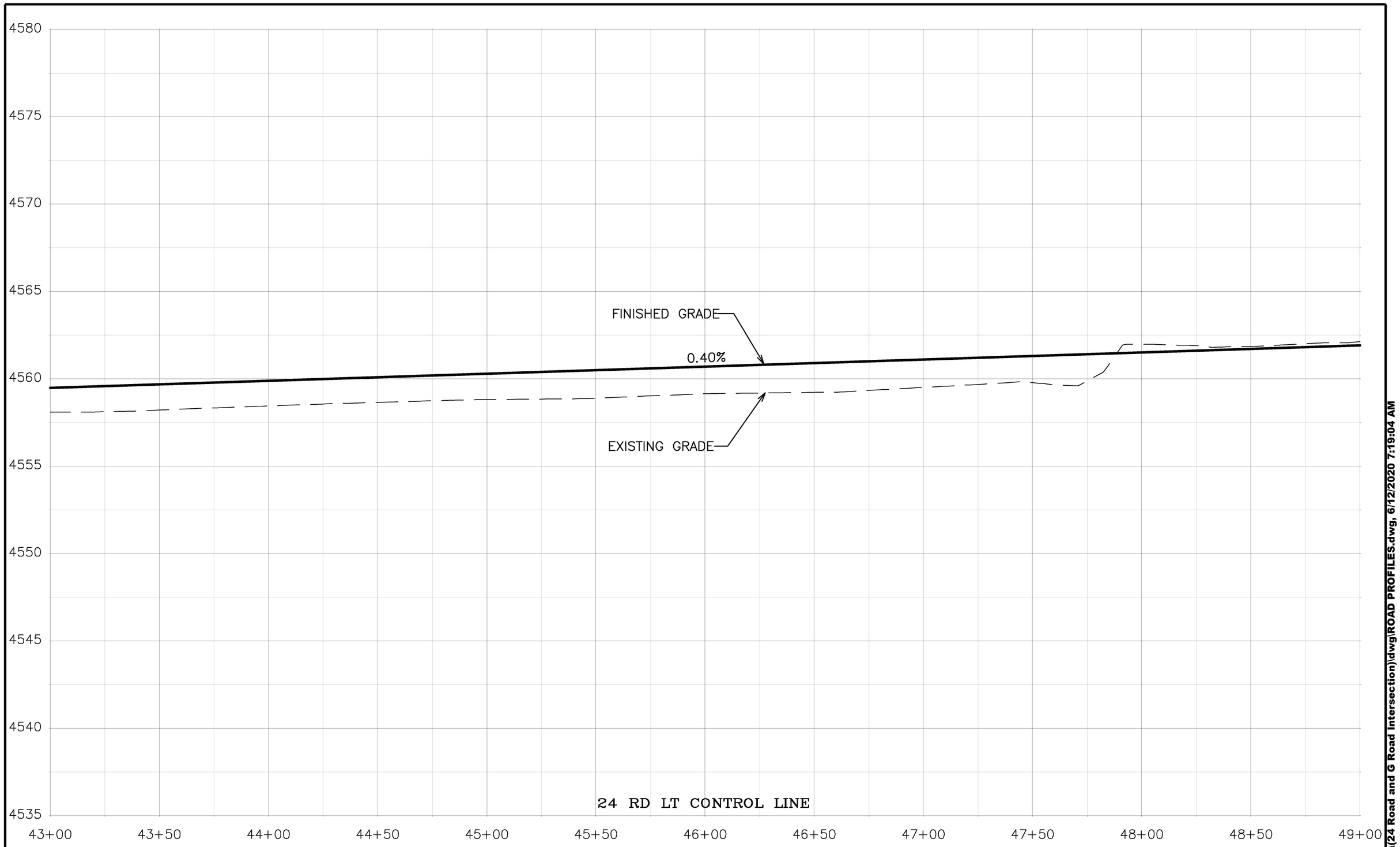

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REVISION ⚠ REV 2	– DATE
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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 9

67

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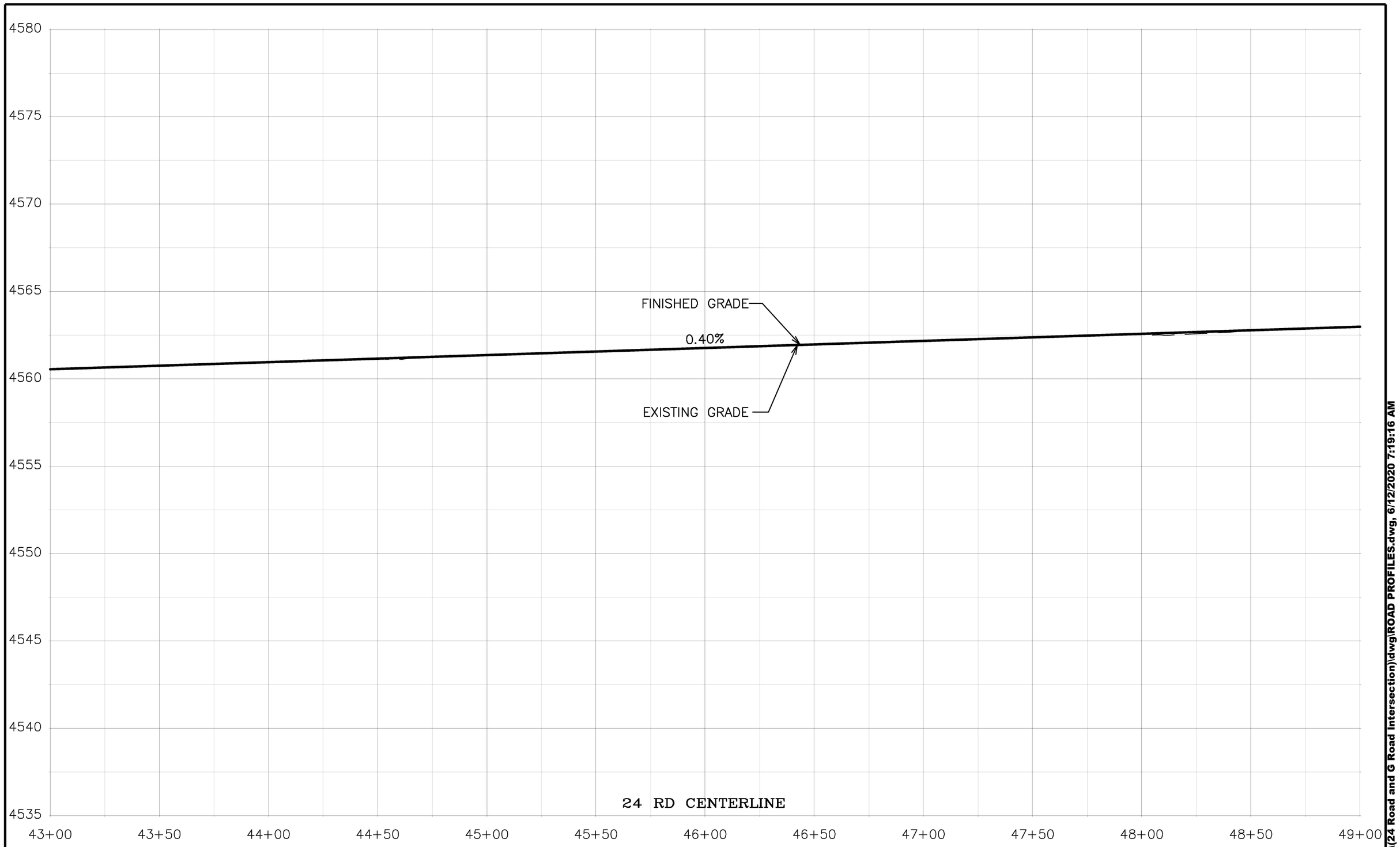

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REVISION ⚠ REV 4	– DATE

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 10

68

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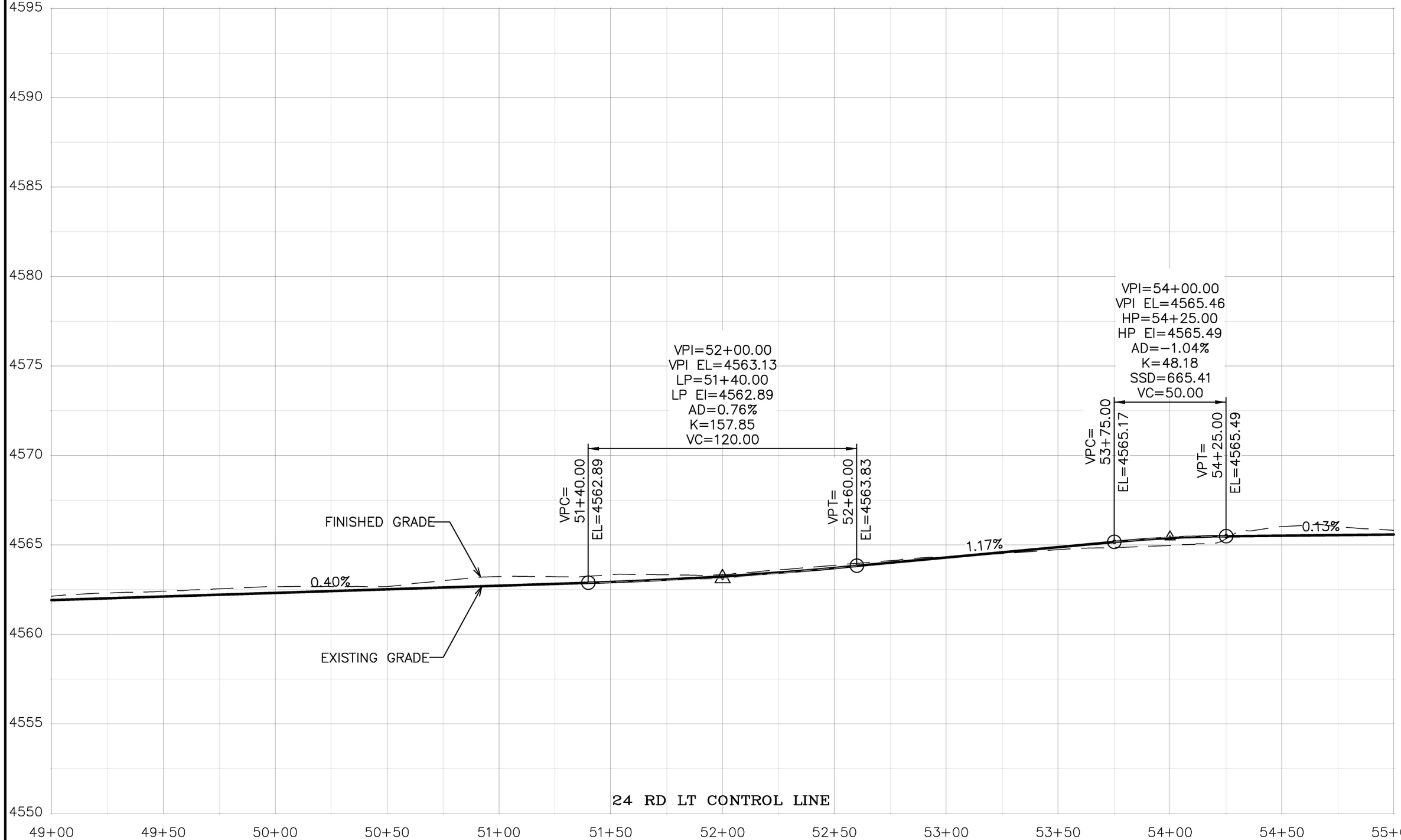

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REVISION ⚠ REV 4	– DATE

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 11

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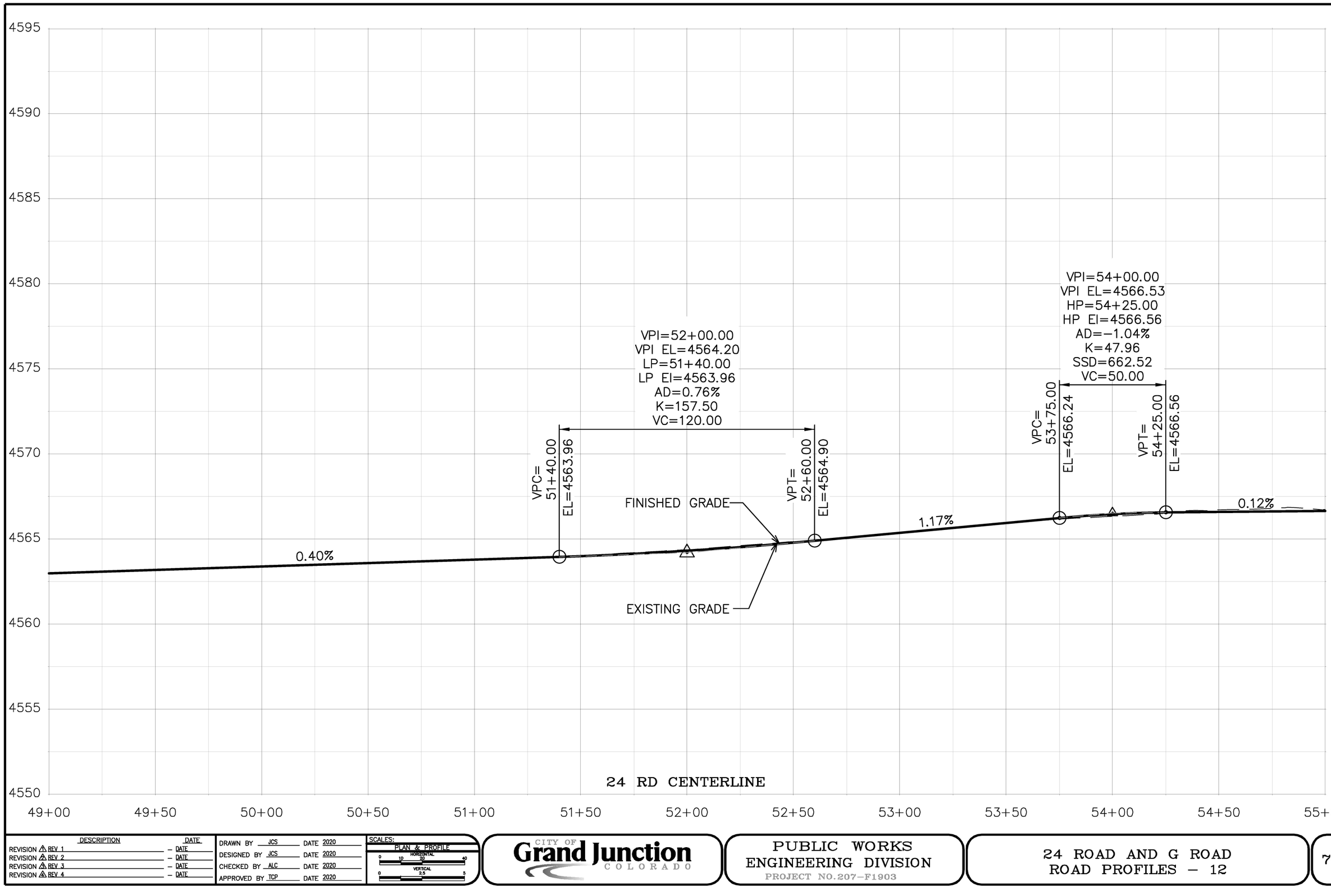

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REVISION 2 REV 2	– DATE
REVISION 3 REV 3	– DATE
REVISION 4 REV 4	– DATE

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 12

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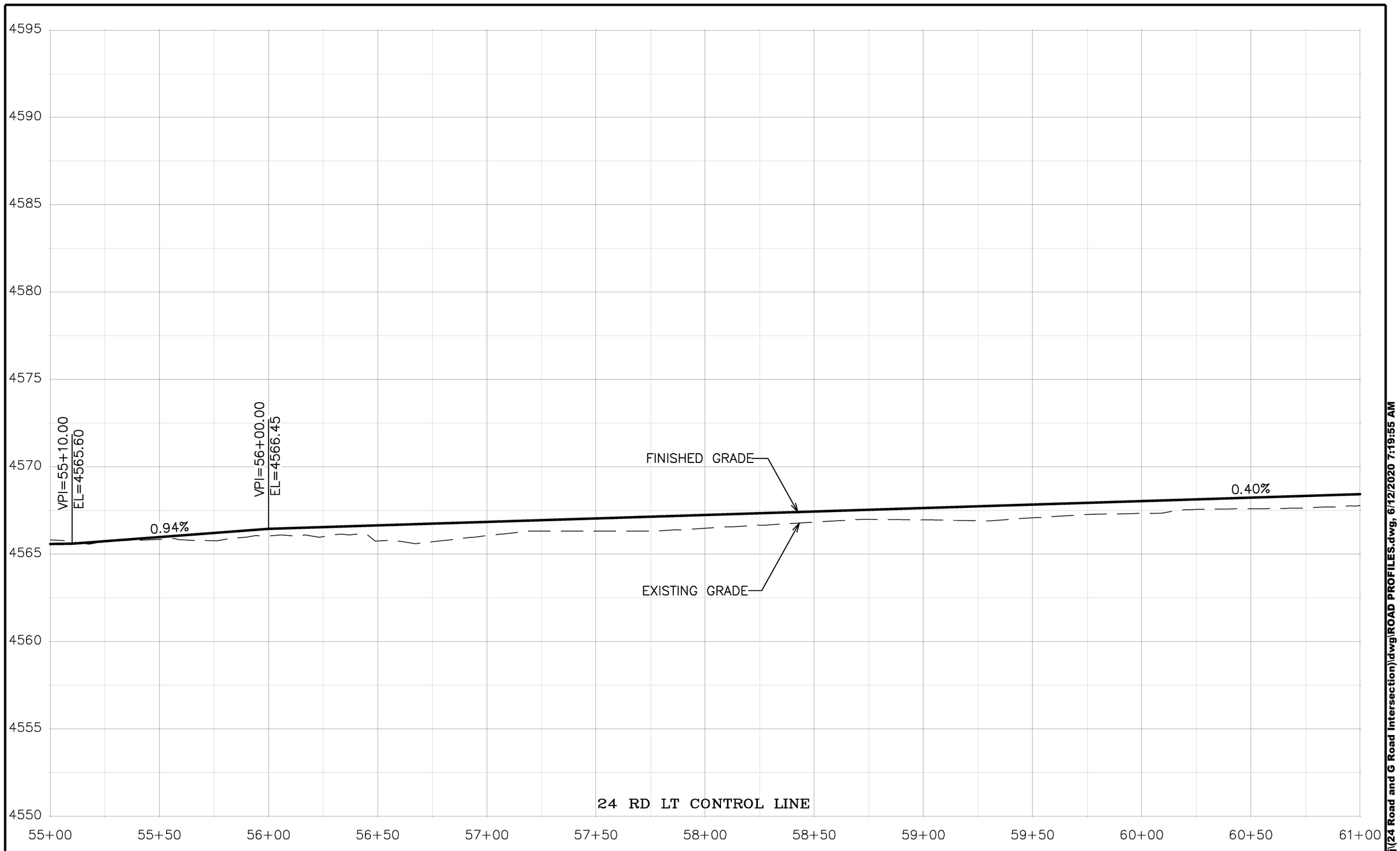

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 13

71

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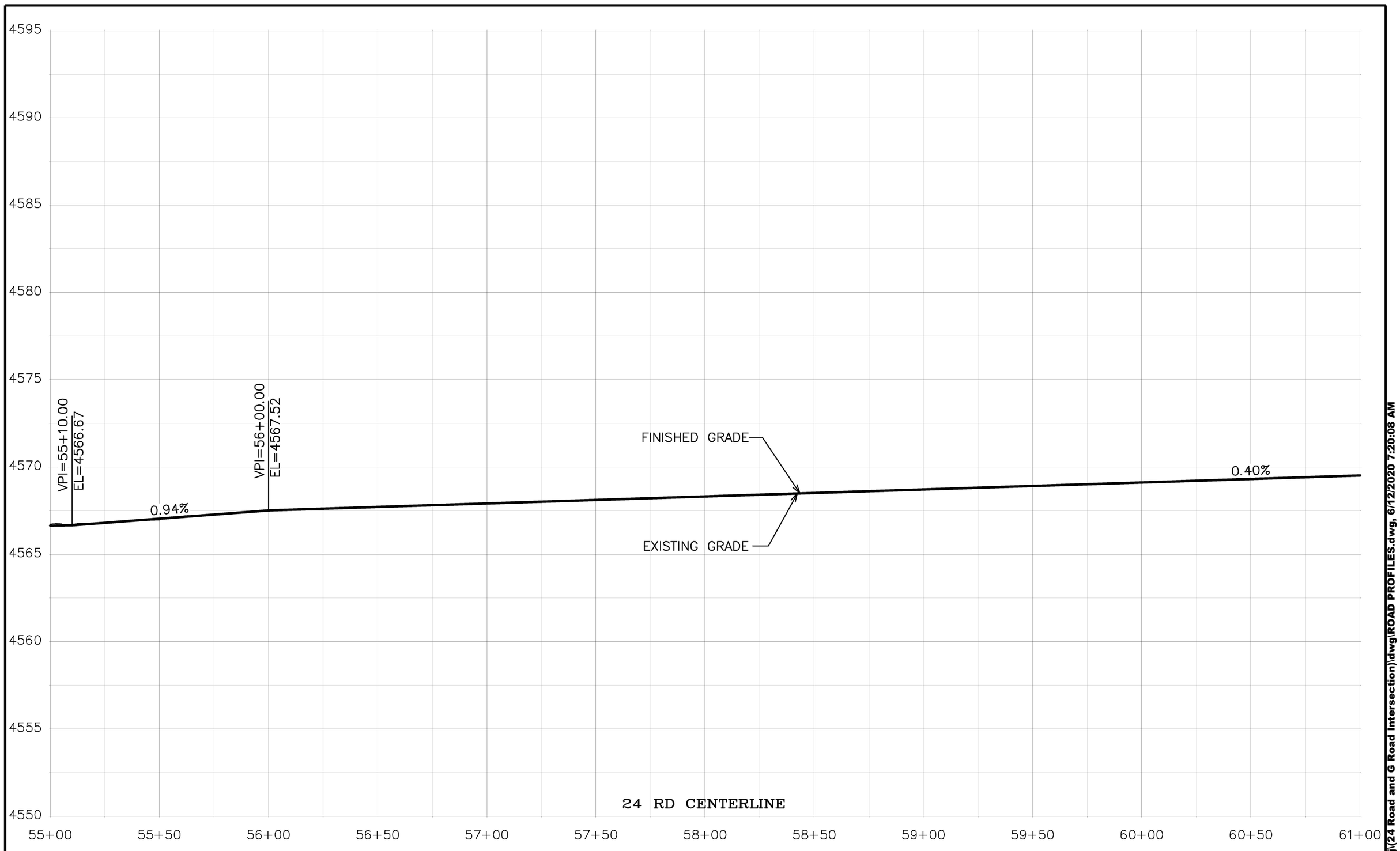

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REVISION 3 REV 3	– DATE
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VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207–F1903

24 ROAD AND G ROAD
ROAD PROFILES – 14

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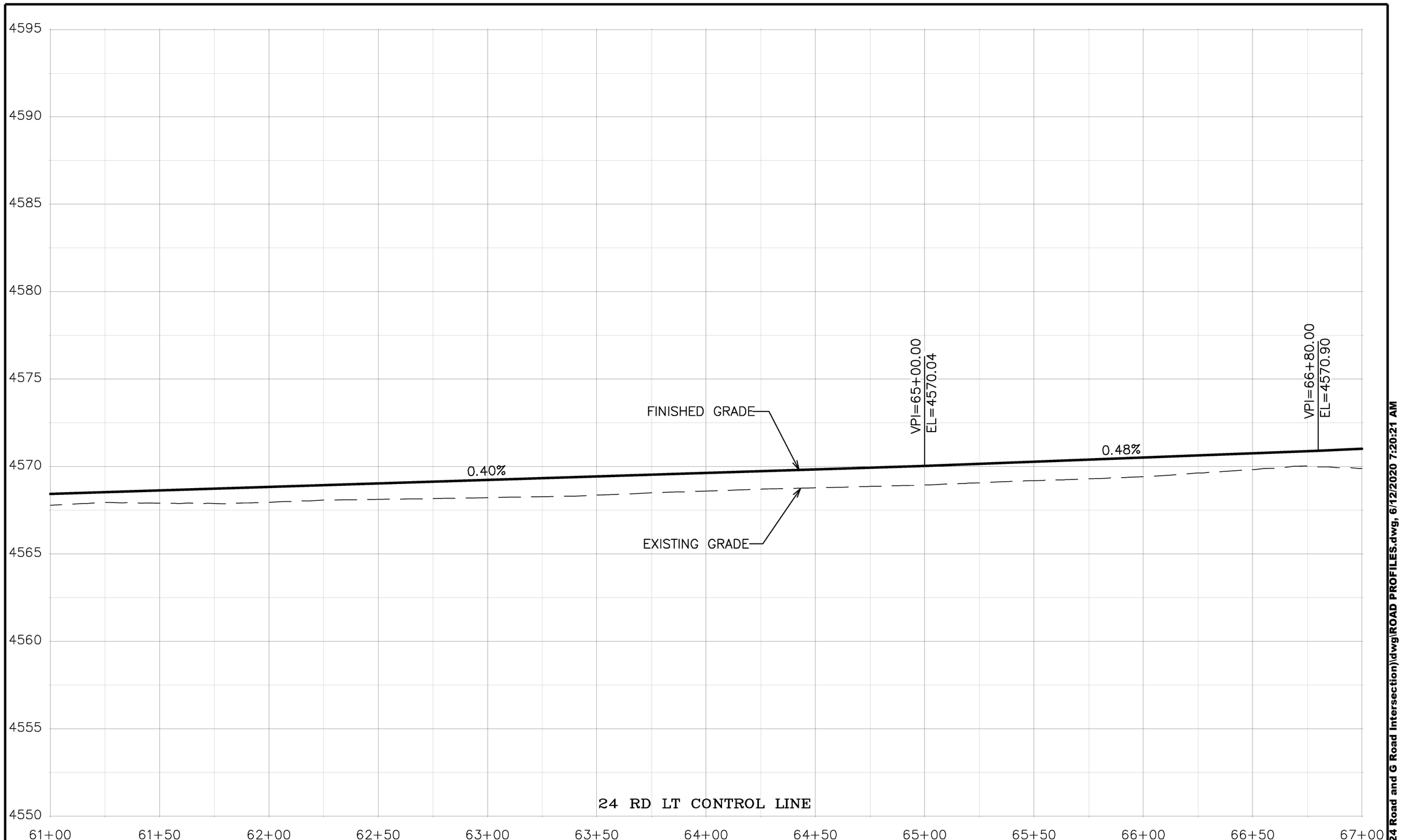

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REVISION ⚠ REV 4	– DATE

DRAWN BY	JCS	DATE	2020
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APPROVED BY	TCP	DATE	2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 15

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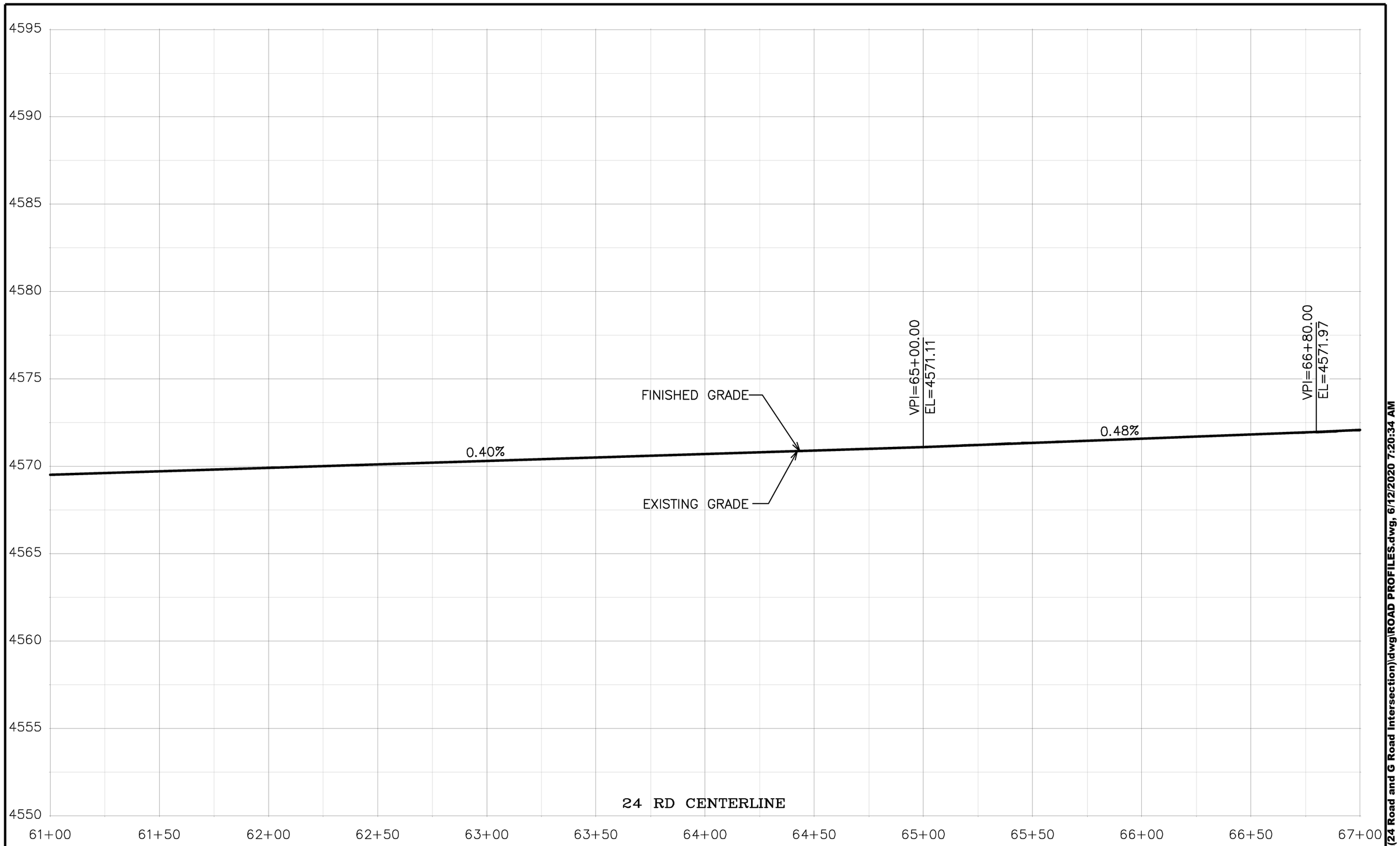

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 16

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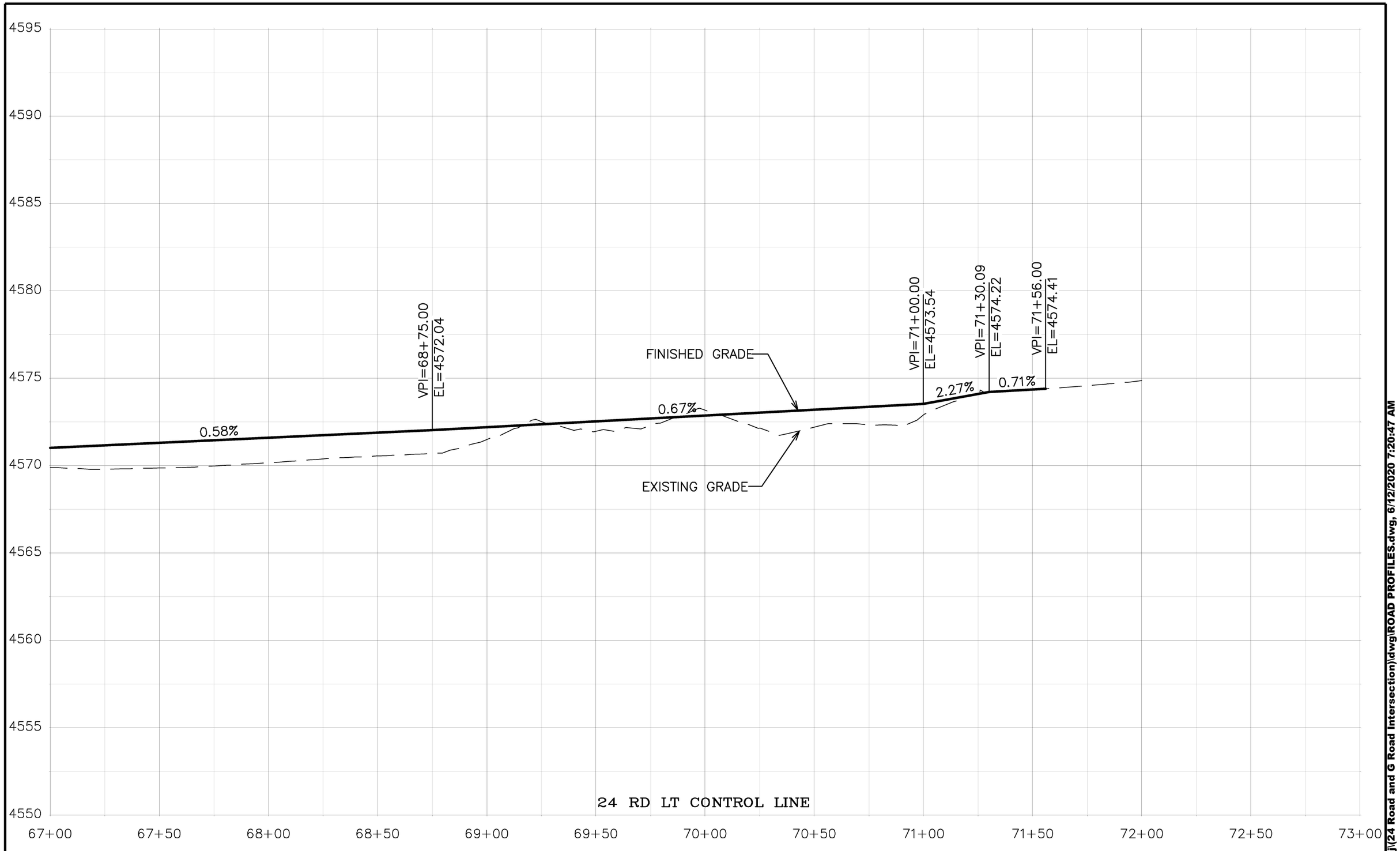

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REVISION ⚠ REV 4	– DATE

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DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 17

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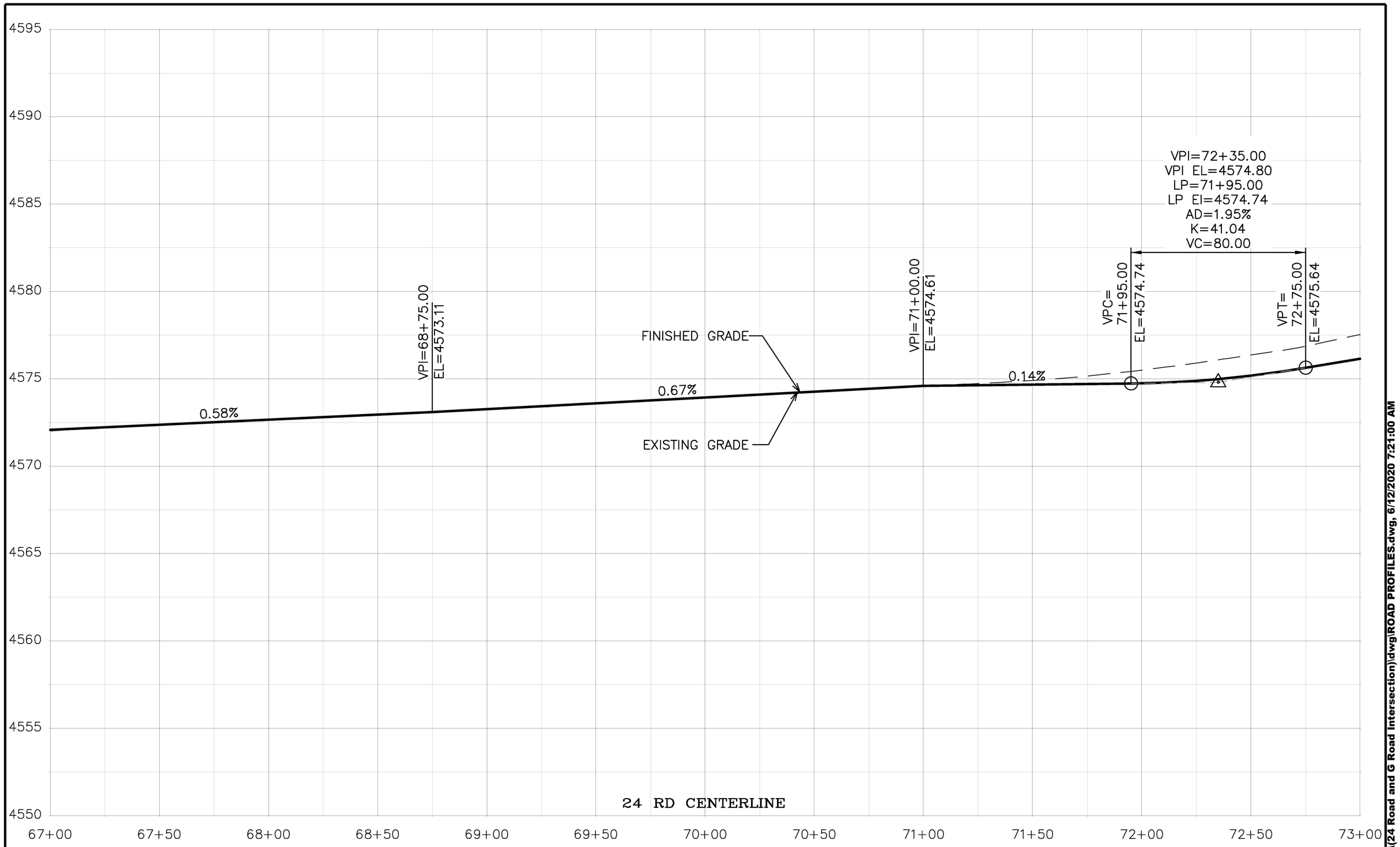

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CHECKED BY ALC DATE 2020
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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 18

76

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4580
4575
4570
4565
4560
4555
4550
4545
4540
4535

VPI=11+73.73
EL=4549.00

VPI=13+00.00
EL=4549.98

VPI=14+00.00
EL=4550.89

VPI=15+19.82
EL=4551.30

VPI=16+34.45
EL=4551.87

FINISHED GRADE

EXISTING GRADE

0.78%

0.91%

0.34%

0.50%

G RD LT EOG

10+50 11+00 11+50 12+00 12+50 13+00 13+50 14+00 14+50 15+00 15+50 16+00 16+50

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

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 19

77

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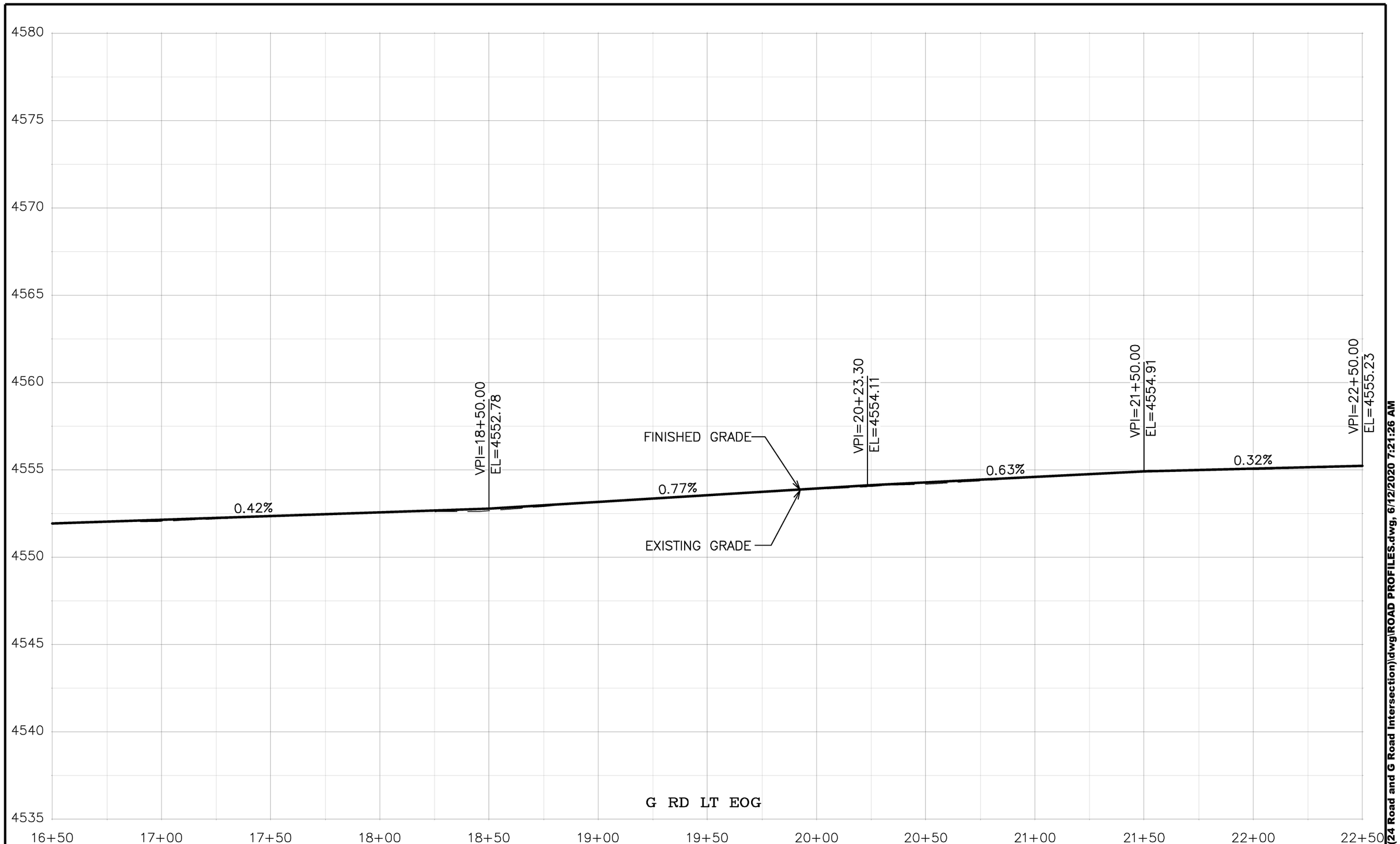

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207–F1903

24 ROAD AND G ROAD
ROAD PROFILES – 20

78

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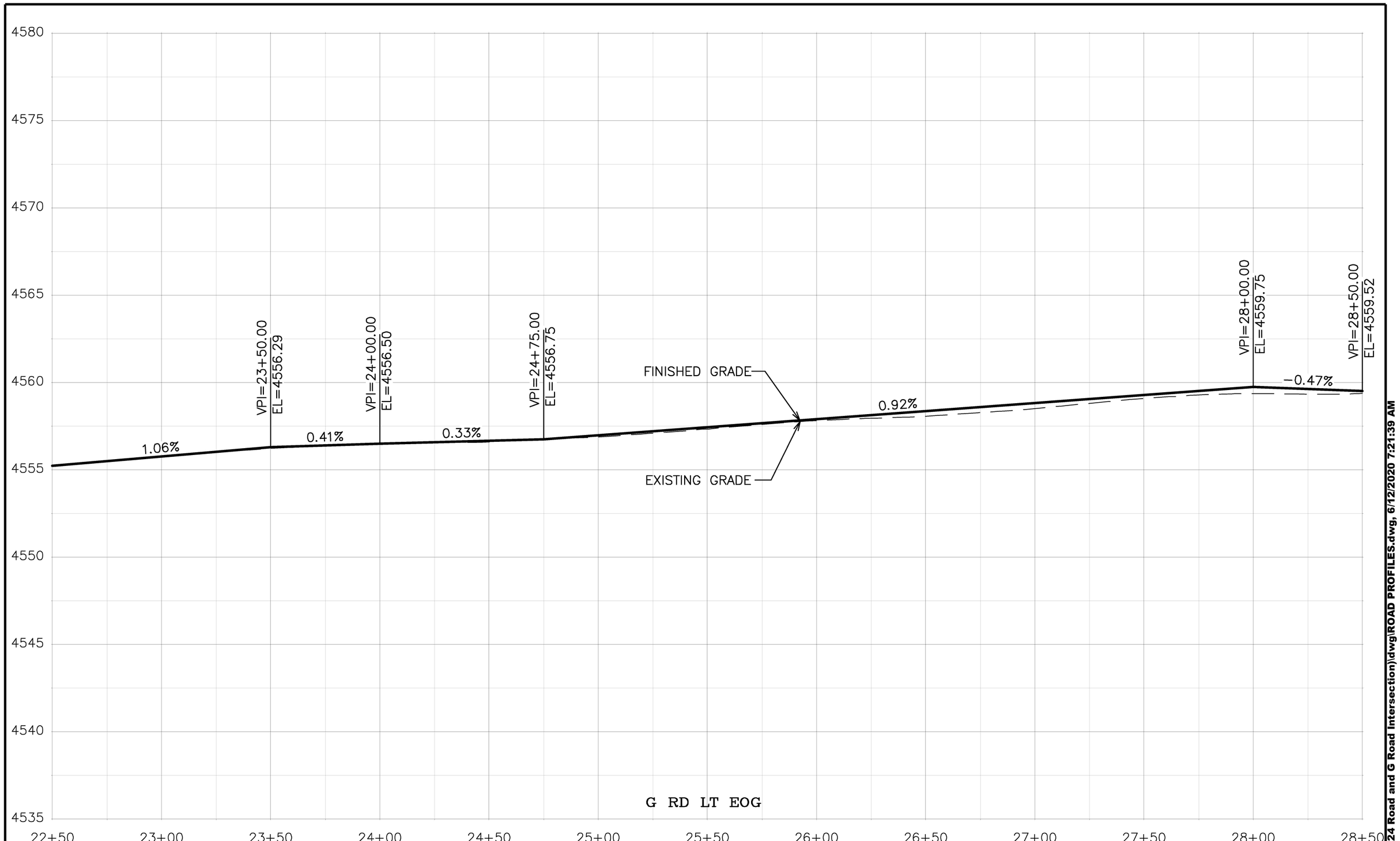

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 21

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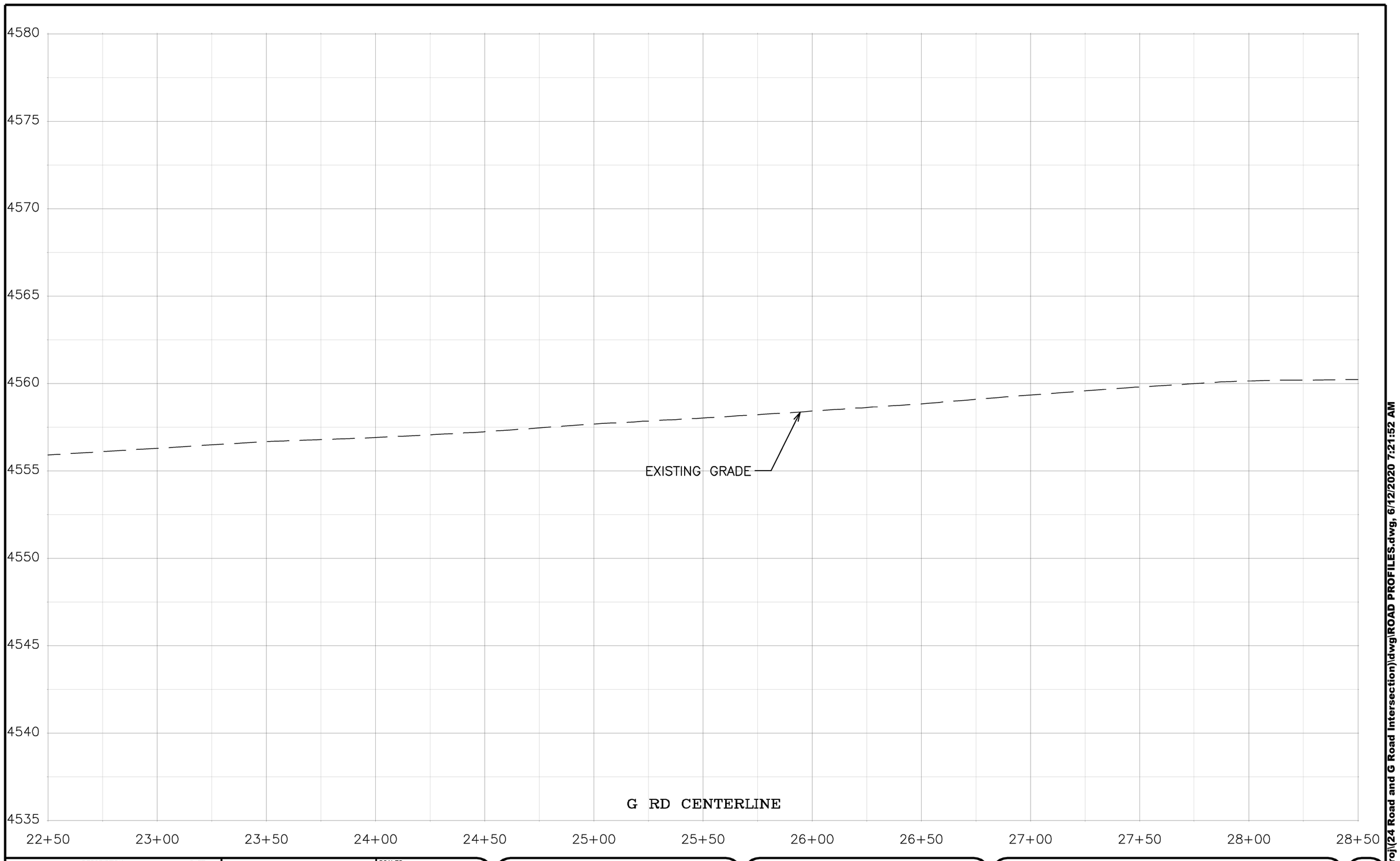

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 22

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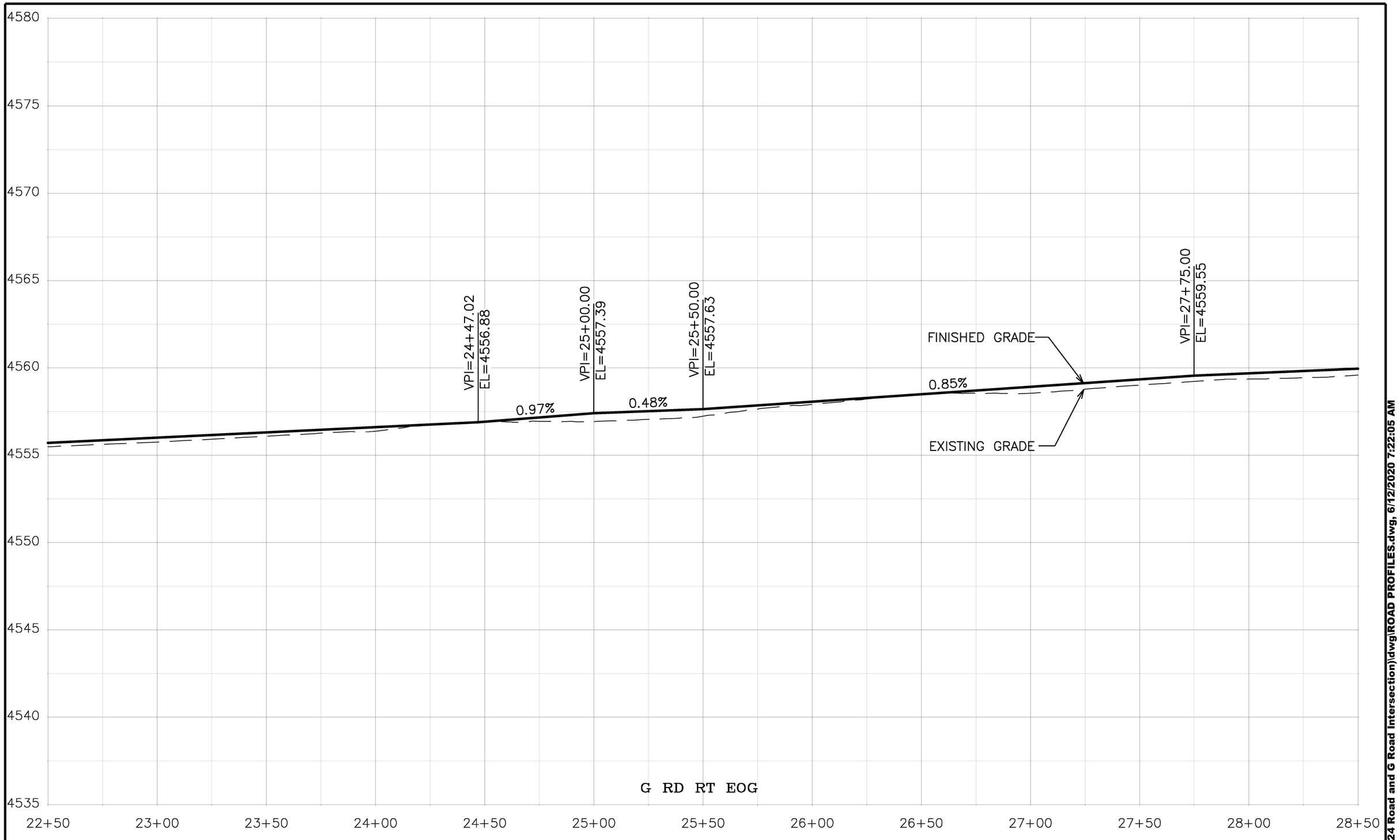

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CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 23

81

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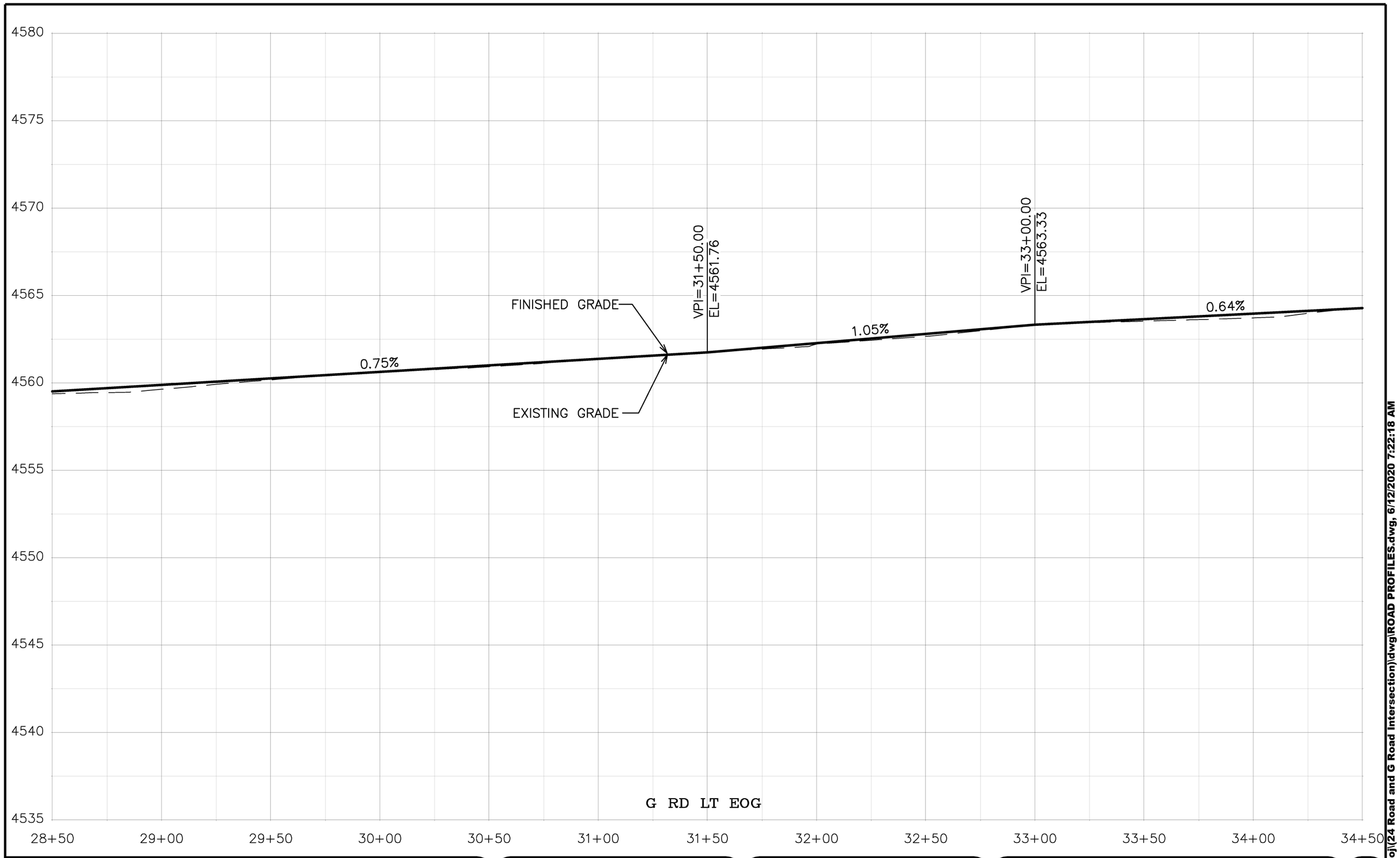

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CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 24

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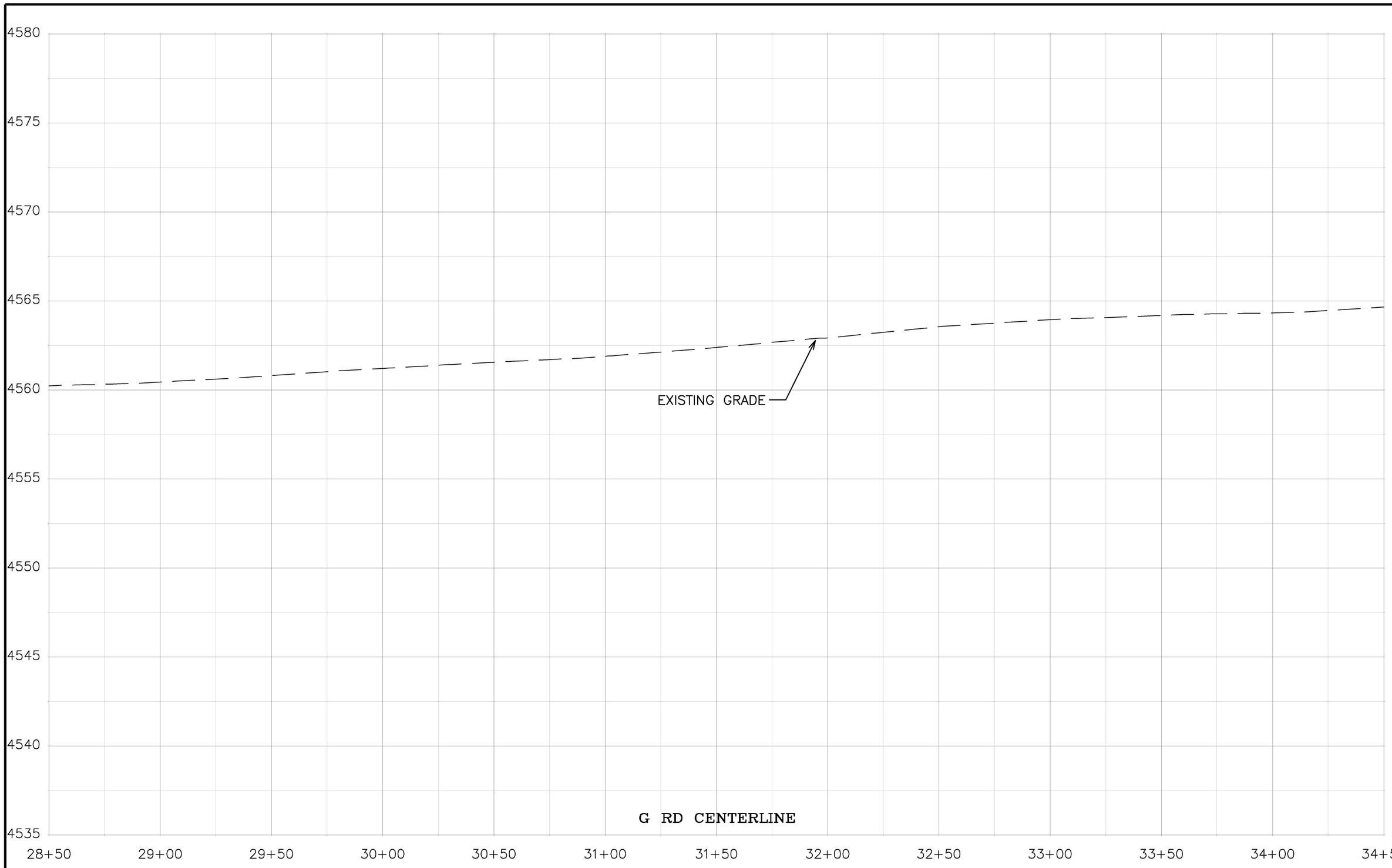

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HORIZONTAL 0 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 25

83

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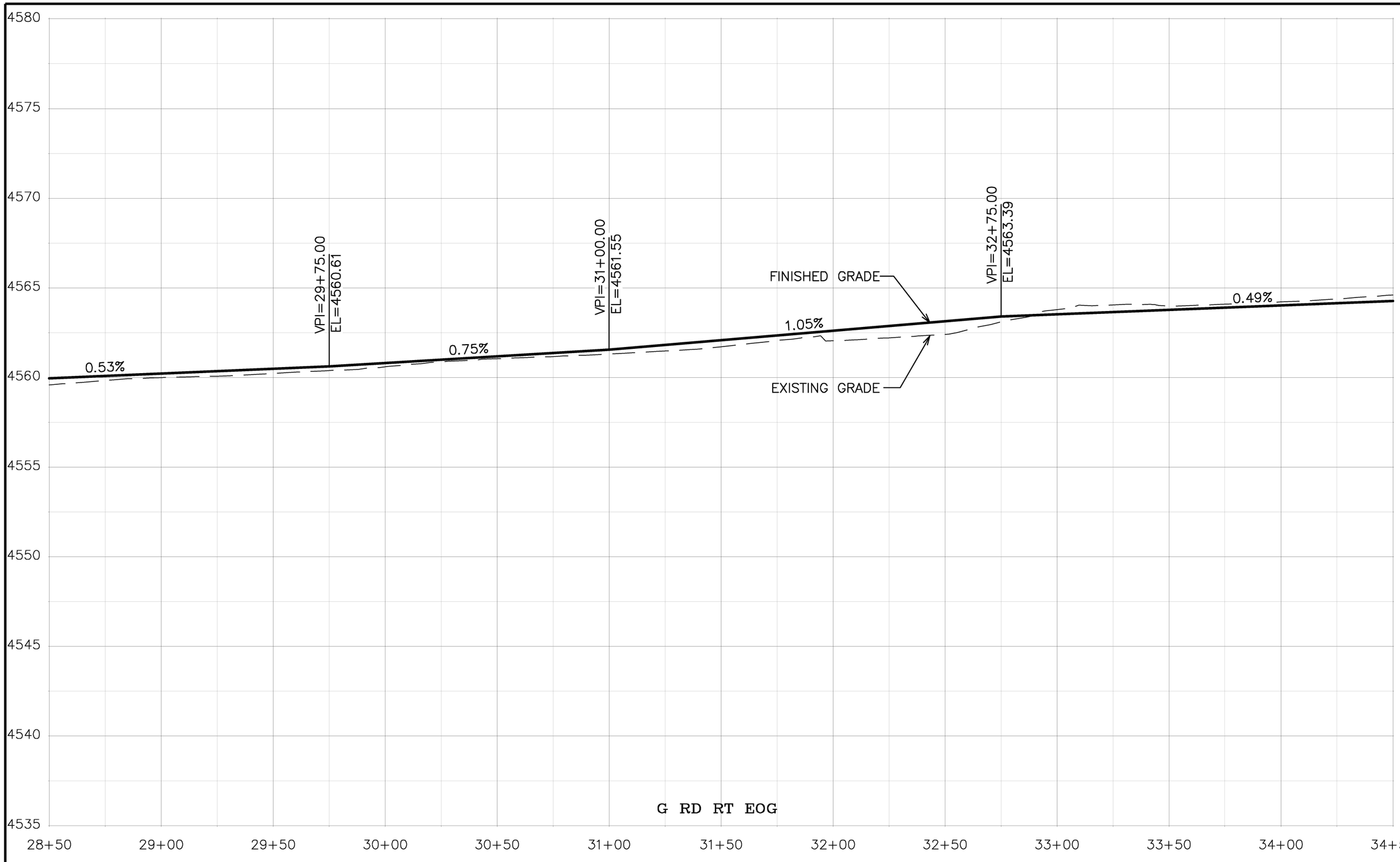

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CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 26

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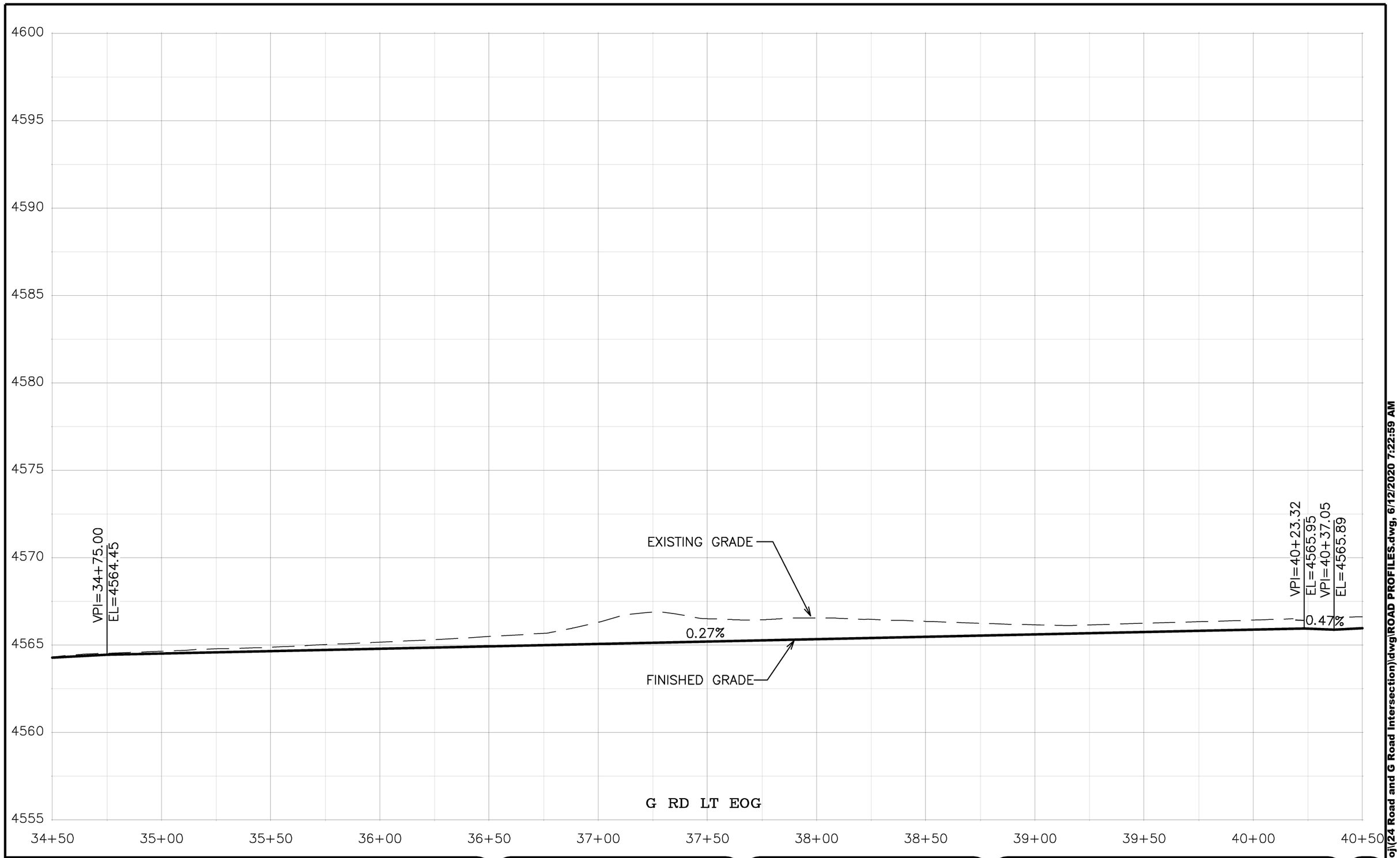

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CITY OF Grand Junction COLORADO

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24 ROAD AND G ROAD
ROAD PROFILES – 27

N:\Landproj\(24 Road and G Road Intersection)\dwg\ROAD PROFILES.dwg, 6/12/2020 7:22:59 AM

4600
4595
4590
4585
4580
4575
4570
4565
4560
4555

VPI=39+00.00
EL=4566.55
VPI=39+22.62
EL=4566.64
VPI=40+37.00
EL=4566.30
0.40%
−0.30%
EXISTING GRADE
FINISHED GRADE

G RD CENTERLINE/CROWN LINE

34+50 35+00 35+50 36+00 36+50 37+00 37+50 38+00 38+50 39+00 39+50 40+00 40+50

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 28

86

N:\Landproj\(24 Road and G Road Intersection)\dwg\ROAD PROFILES.dwg, 6/12/2020 7:23:12 AM

4600
4595
4590
4585
4580
4575
4570
4565
4560
4555

VPI=35+00.00
EL=4564.50

VPI=39+24.00
EL=4566.26

VPI=40+38.20
EL=4565.92

FINISHED GRADE

0.41%

-0.30%

EXISTING GRADE

G RD RT EOG

34+50 35+00 35+50 36+00 36+50 37+00 37+50 38+00 38+50 39+00 39+50 40+00 40+50

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 29

N:\Landproj\(24 Road and G Road Intersection)\dwg\ROAD PROFILES.dwg, 6/12/2020 7:23:25 AM

4600
4595
4590
4585
4580
4575
4570
4565
4560
4555

VPI=40+75.00
EL=4566.11

0.58%

EXISTING GRADE

FINISHED GRADE

0.30%

G RD LT EOG

40+50 41+00 41+50 42+00 42+50 43+00 43+50 44+00 44+50 45+00 45+50 46+00 46+50

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207–F1903

24 ROAD AND G ROAD
ROAD PROFILES – 30

N:\Landproj\(24 Road and G Road Intersection)\dwg\ROAD PROFILES.dwg, 6/12/2020 7:23:38 AM

4600
4595
4590
4585
4580
4575
4570
4565
4560
4555

VPI=41+00.00
EL=4566.62

0.52%

0.30%

FINISHED GRADE

EXISTING GRADE

G RD CENTERLINE/CROWN LINE

40+50 41+00 41+50 42+00 42+50 43+00 43+50 44+00 44+50 45+00 45+50 46+00 46+50

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 31

89

N:\Landproj\(24 Road and G Road Intersection)\dwg\ROAD PROFILES.dwg, 6/12/2020 7:23:51 AM

4600
4595
4590
4585
4580
4575
4570
4565
4560
4555

VPI=40+75.00
EL=4566.11

0.52%

FINISHED GRADE

0.30%

EXISTING GRADE

G RD RT EOG

40+50 41+00 41+50 42+00 42+50 43+00 43+50 44+00 44+50 45+00 45+50 46+00 46+50

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 32

90

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4600
4595
4590
4585
4580
4575
4570
4565
4560
4555

EXISTING GRADE

FINISHED GRADE

VPI=50+00.00
EL=4568.88

VPI=51+99.93
EL=4570.07

0.30%

0.59%

0.44%

G RD LT EOG

46+50 47+00 47+50 48+00 48+50 49+00 49+50 50+00 50+50 51+00 51+50 52+00 52+50

N:\Landproj\(24 Road and G Road Intersection)\dwg\ROAD PROFILES.dwg, 6/12/2020 7:24:17 AM

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

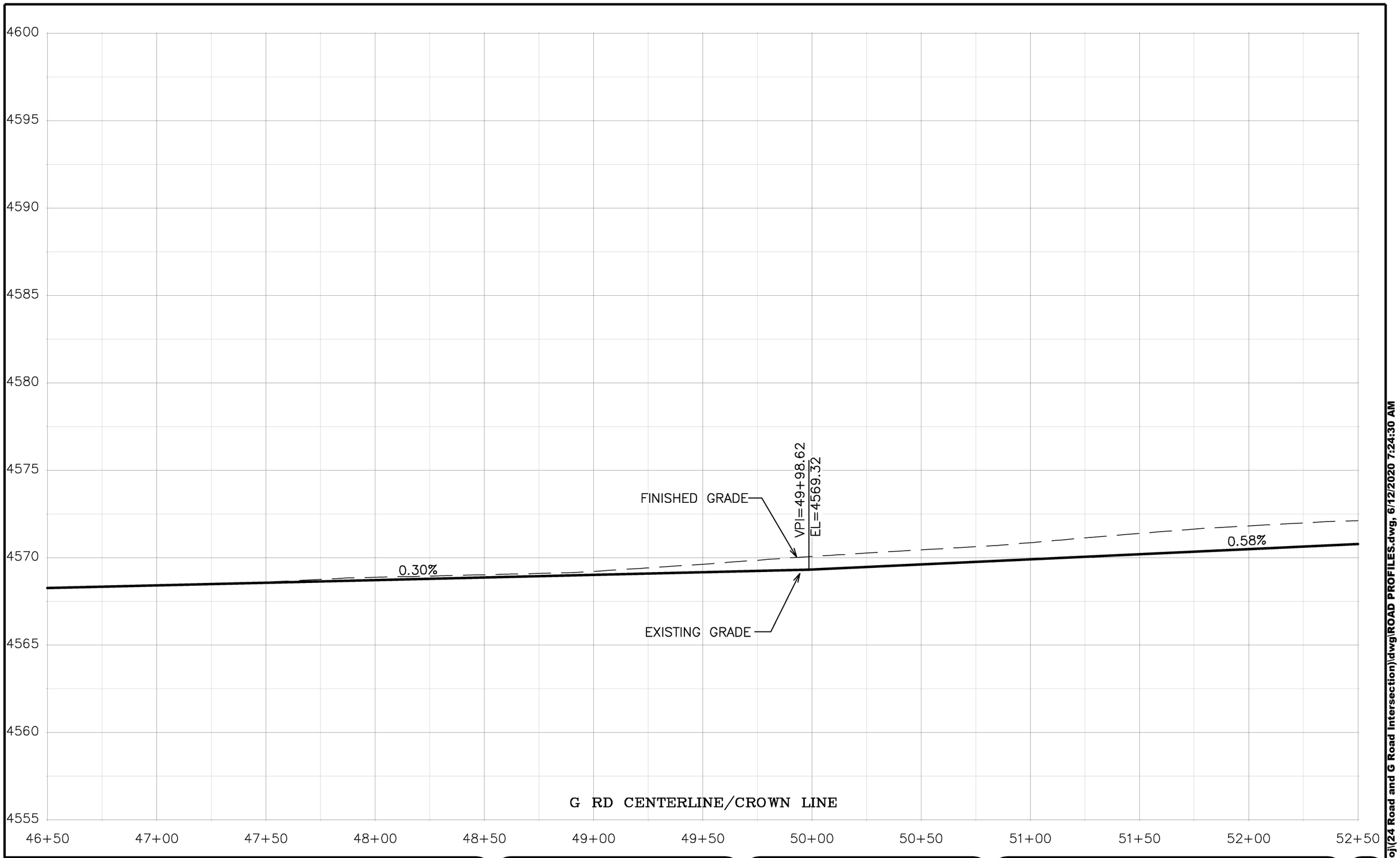
DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207–F1903

24 ROAD AND G ROAD
ROAD PROFILES – 33



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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207–F1903

24 ROAD AND G ROAD
ROAD PROFILES – 34

N:\Landproj\(24 Road and G Road Intersection)\dwg\ROAD PROFILES.dwg, 6/12/2020 7:24:30 AM

4600
4595
4590
4585
4580
4575
4570
4565
4560
4555

FINISHED GRADE

EXISTING GRADE

0.30%

0.58%

VPI=50+00.00
EL=4568.88

G RD RT EOG

46+50 47+00 47+50 48+00 48+50 49+00 49+50 50+00 50+50 51+00 51+50 52+00 52+50

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO.207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 35

N:\Landproj\(24 Road and G Road Intersection)\dwg\ROAD PROFILES.dwg, 6/12/2020 7:24:43 AM

4600
4595
4590
4585
4580
4575
4570
4565
4560
4555

EXISTING GRADE

0.44%

FINISHED GRADE

G RD LT EOG

52+50 53+00 53+50 54+00 54+50 55+00 55+50 56+00 56+50 57+00 57+50 58+00 58+50

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 36

94

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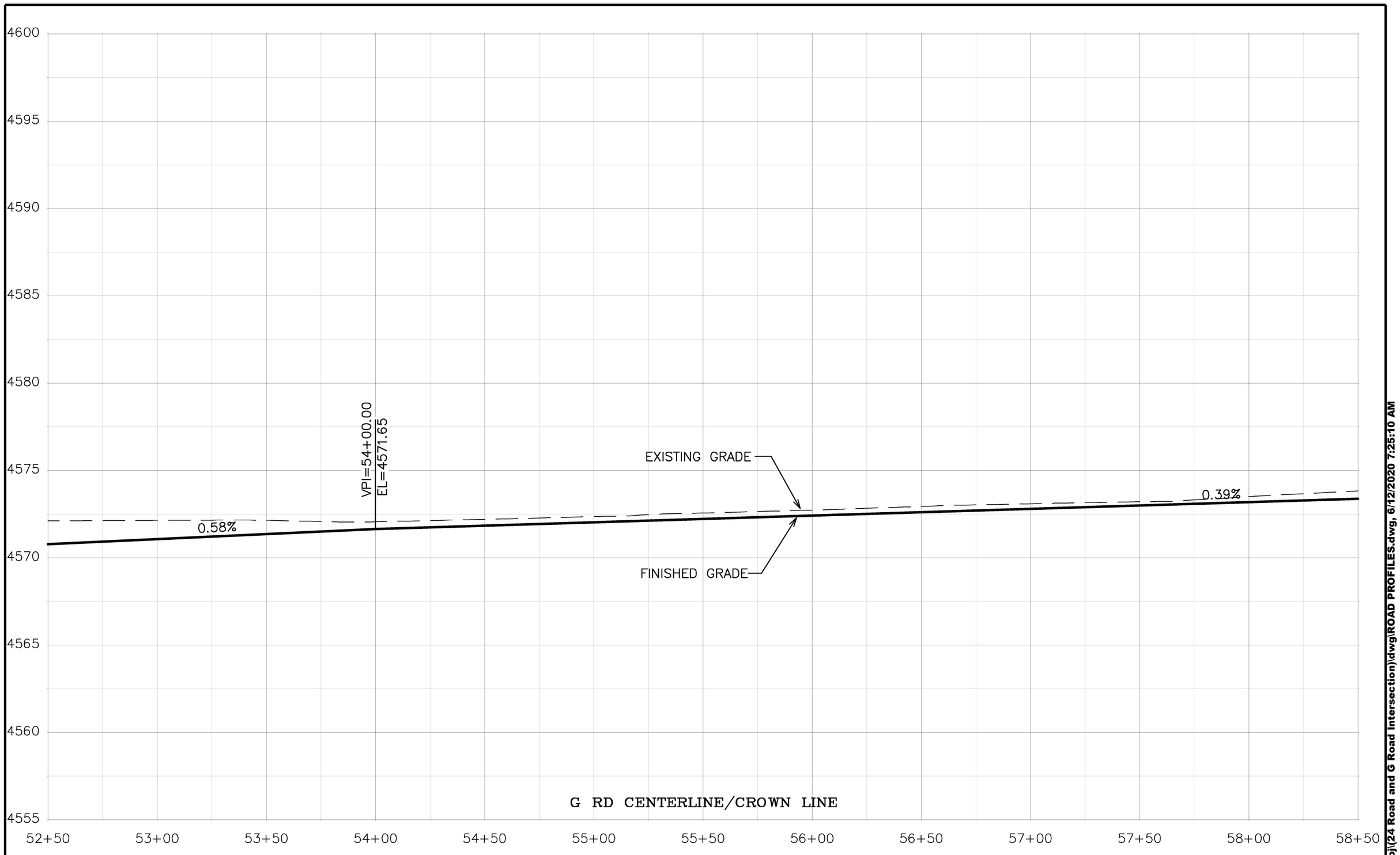


DESCRIPTION	DATE
REVISION ⚠ REV 1	– DATE
REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

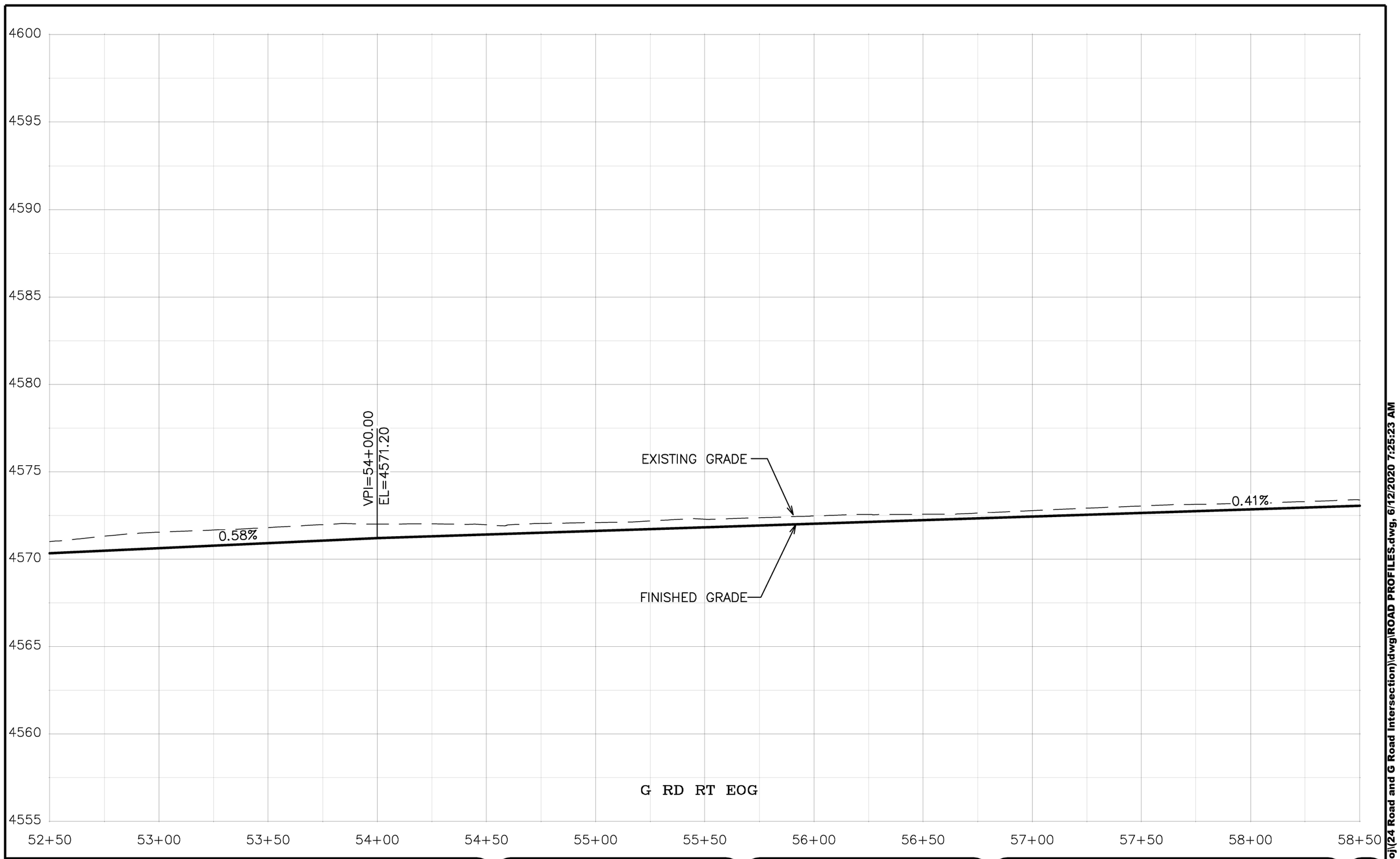
SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 37

N:\Landpro\(24 Road and G Road Intersection)\dwg\ROAD PROFILES.dwg, 6/12/2020 7:25:10 AM



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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 38

96

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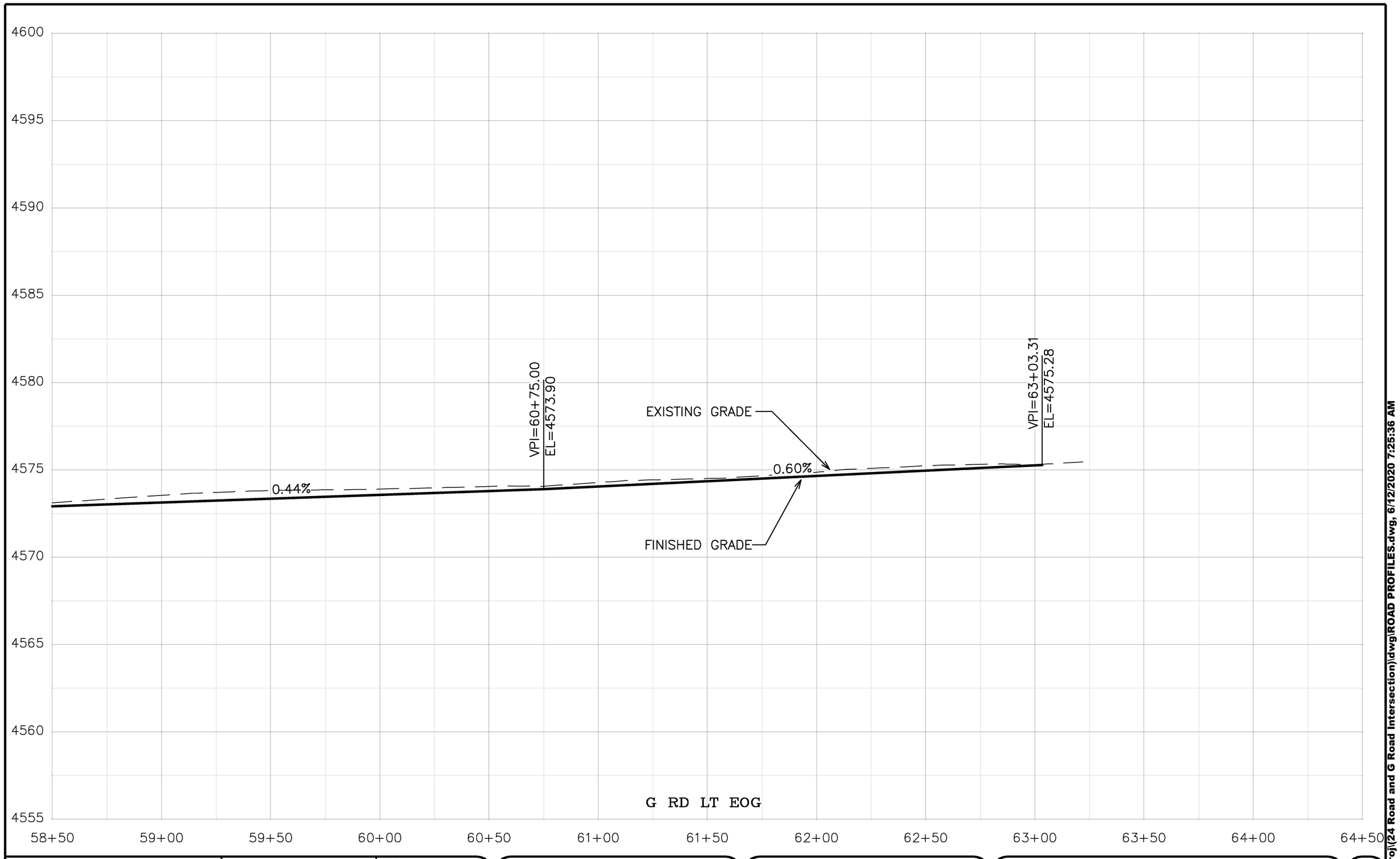

DESCRIPTION	DATE
REVISION 1 REV 1	– DATE
REVISION 2 REV 2	– DATE
REVISION 3 REV 3	– DATE
REVISION 4 REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 39

97

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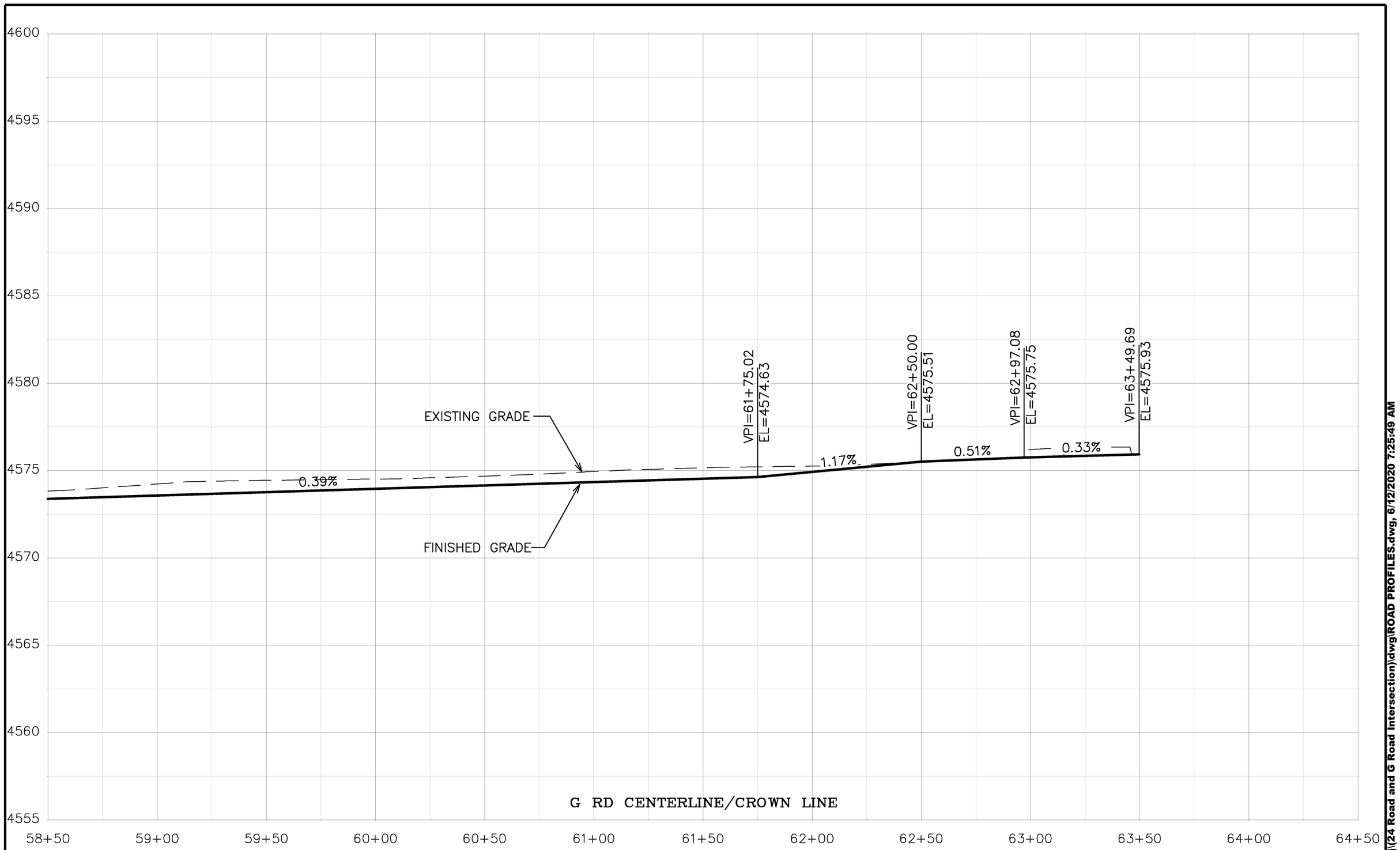

DESCRIPTION	DATE
REVISION ⚠ REV 1	– DATE
REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY	JCS	DATE 2020
DESIGNED BY	JCS	DATE 2020
CHECKED BY	ALC	DATE 2020
APPROVED BY	TCP	DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 40

98

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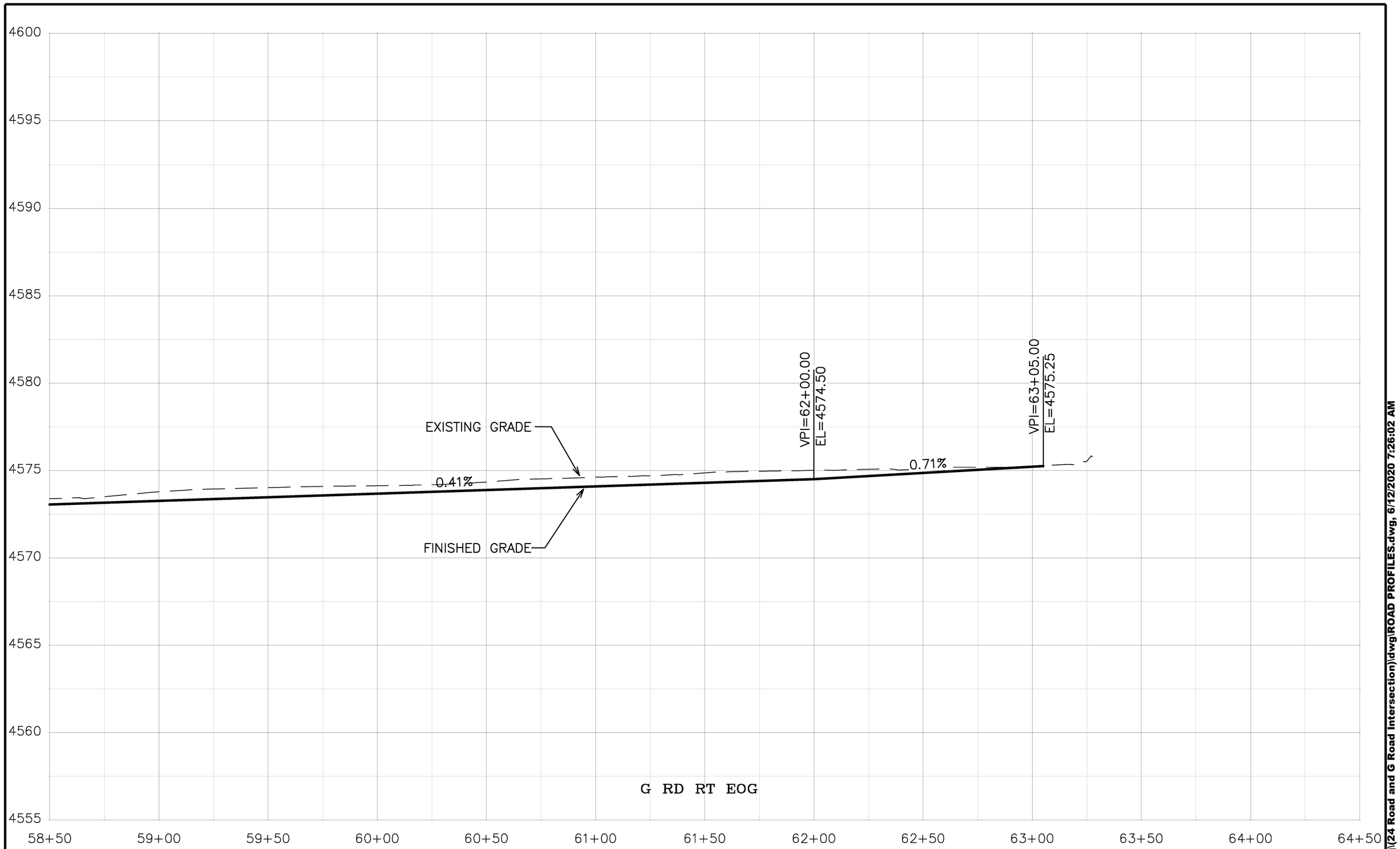

DESCRIPTION	DATE
REVISION ⚠ REV 1	– DATE
REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD PROFILES – 41

99

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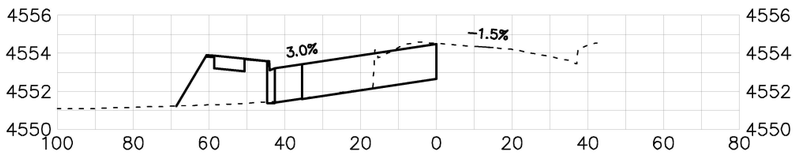

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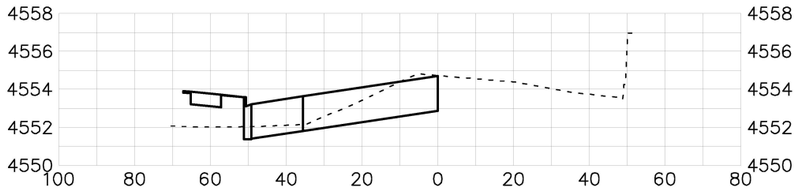

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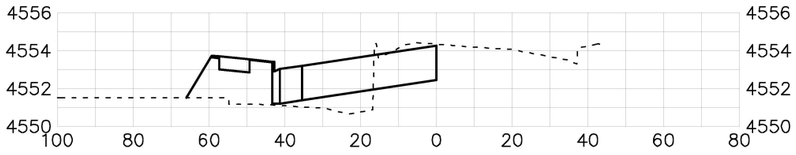
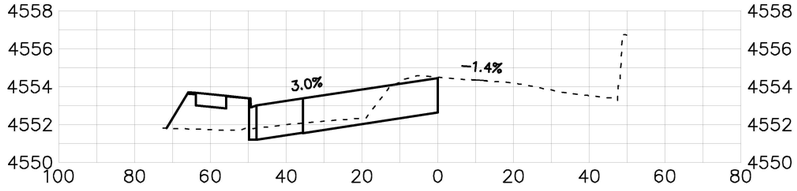


23+50.00



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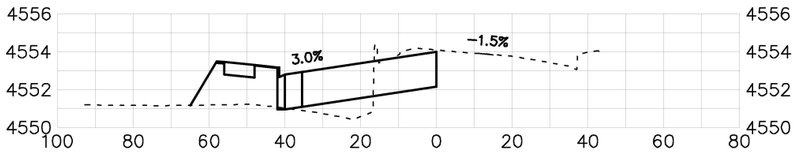

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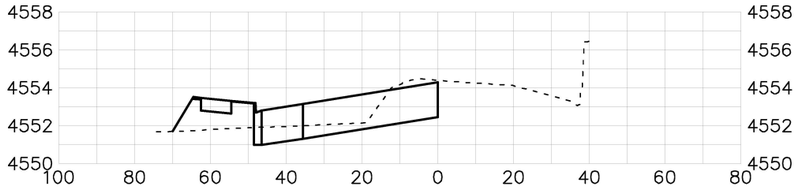

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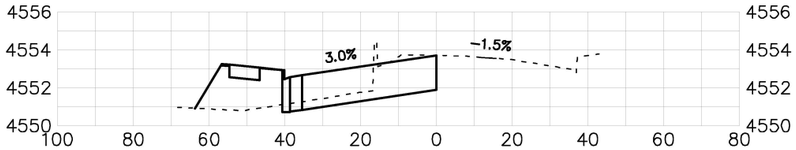

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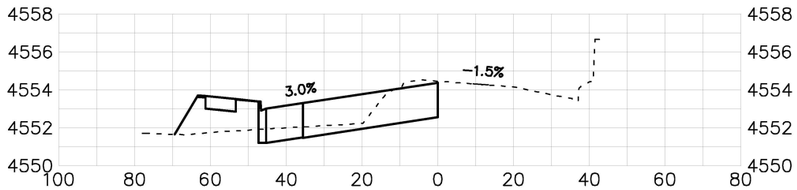

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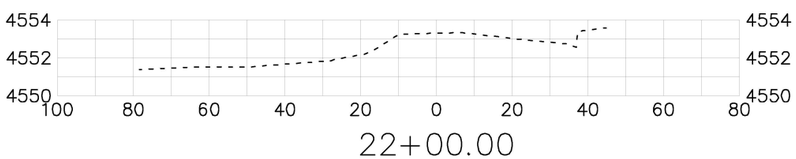

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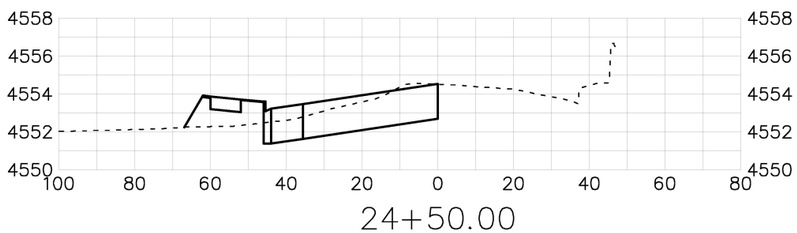

24+50.00

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – 24 RD 1

100

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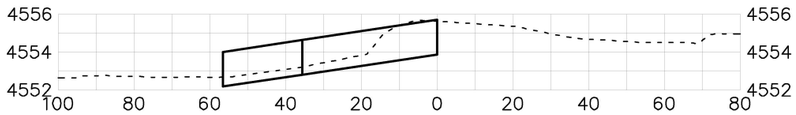

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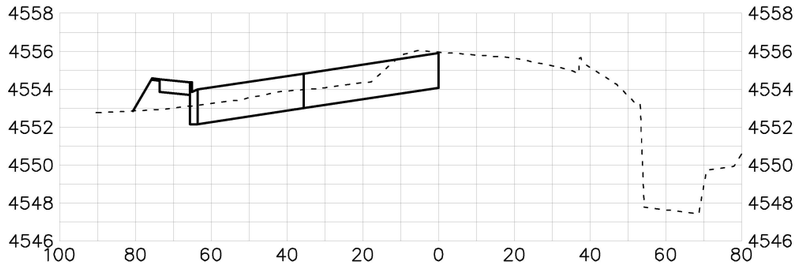

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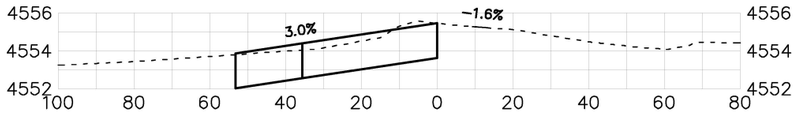
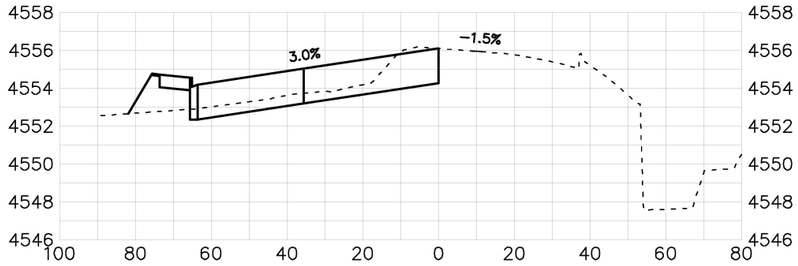
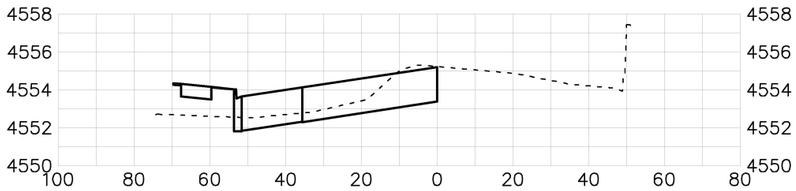


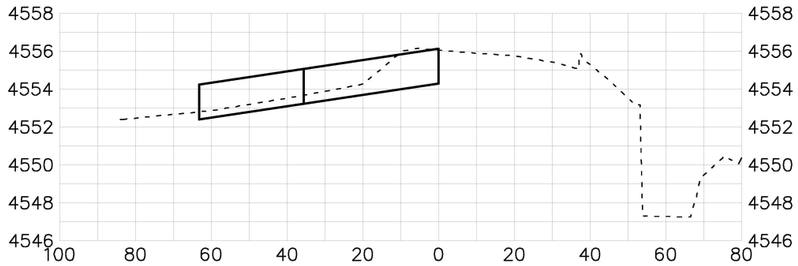
28+00.00



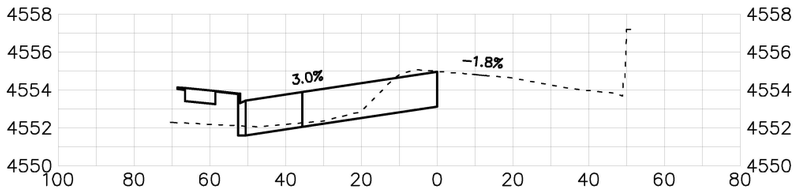
30+00.00



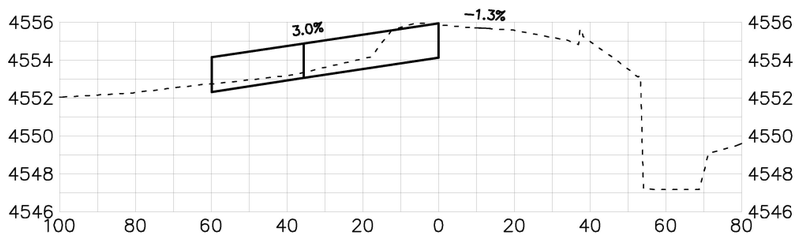
27+50.00



29+50.00



27+00.00



29+00.00

DESCRIPTION	DATE
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REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – 24 RD 2

101

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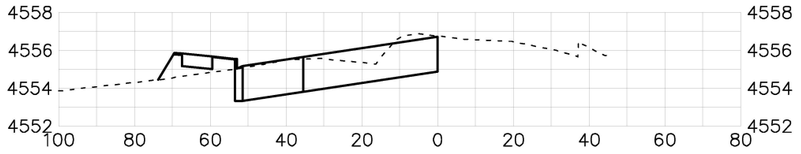

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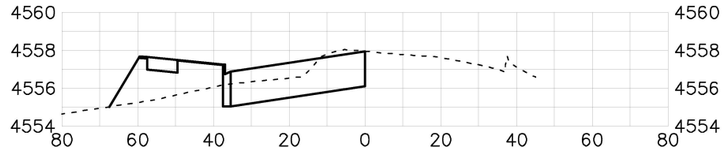

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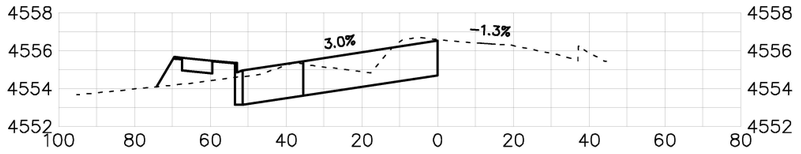

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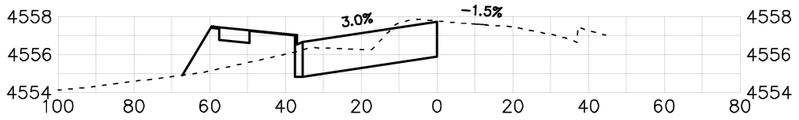

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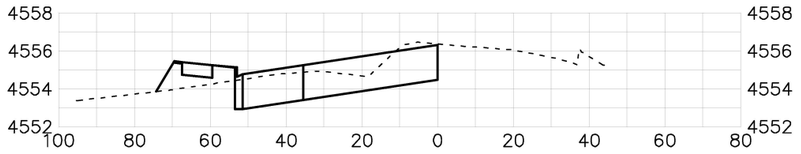

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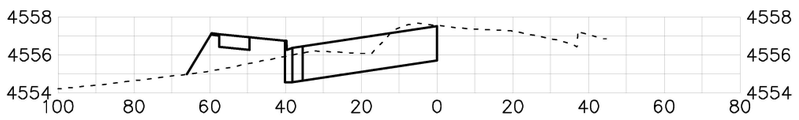

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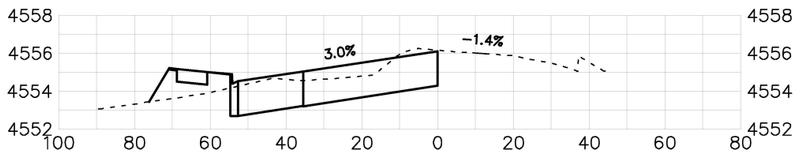

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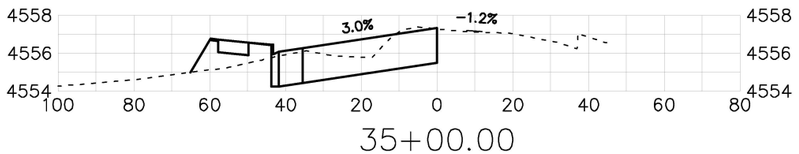

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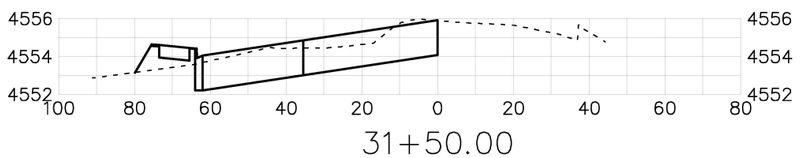

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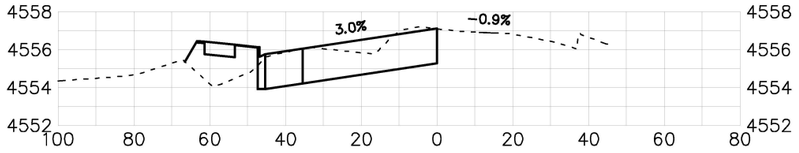

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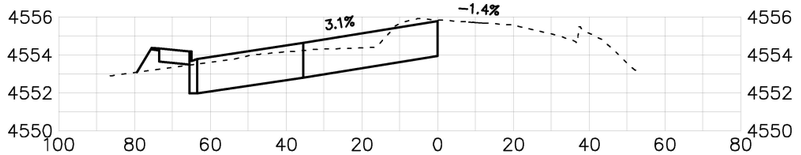

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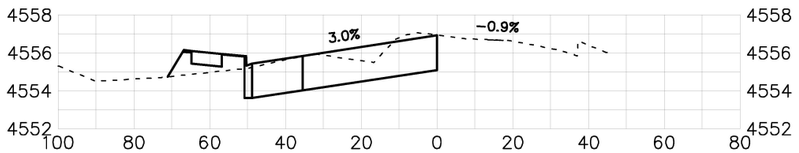

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DESCRIPTION	DATE
REVISION ⚠1 REV 1	DATE
REVISION ⚠2 REV 2	DATE
REVISION ⚠3 REV 3	DATE
REVISION ⚠4 REV 4	DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – 24 RD 3

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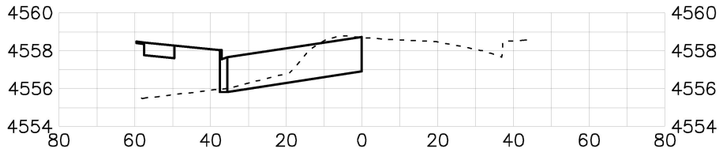

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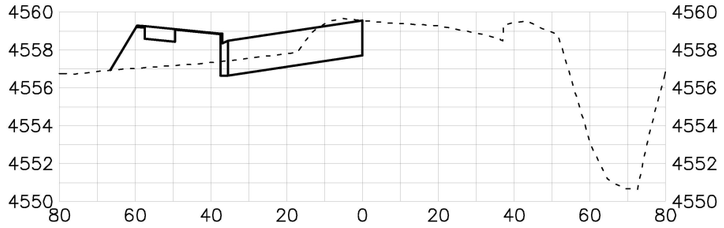

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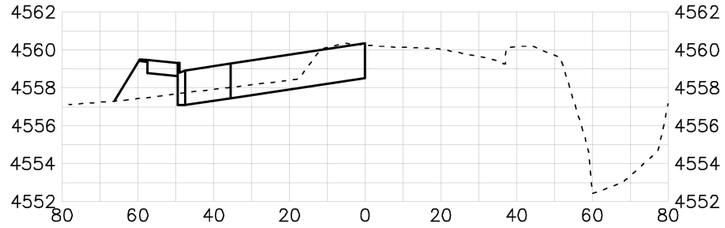

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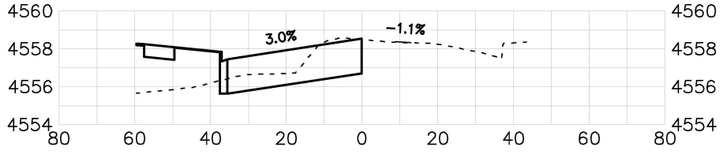

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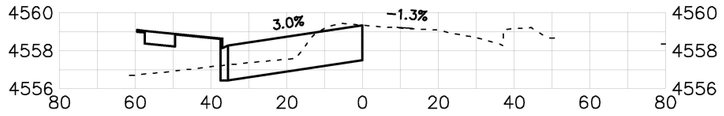

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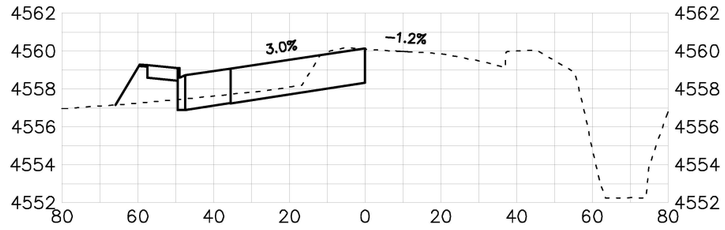

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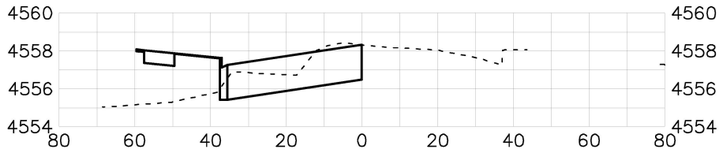

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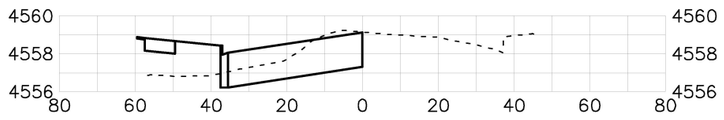

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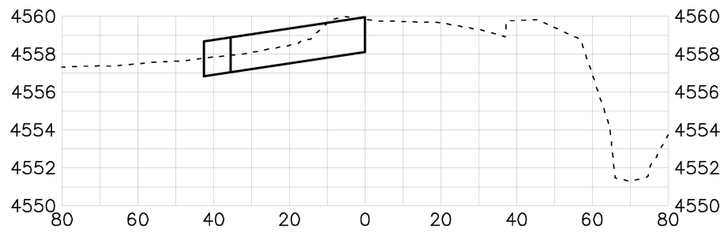

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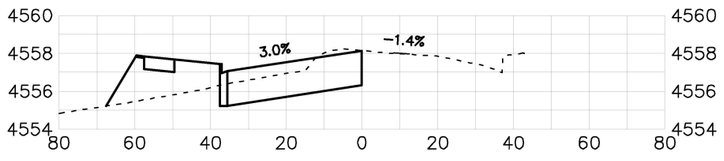

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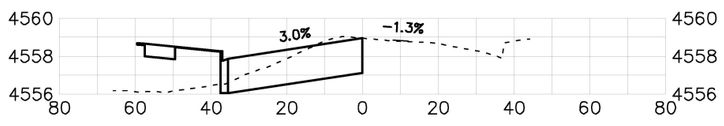

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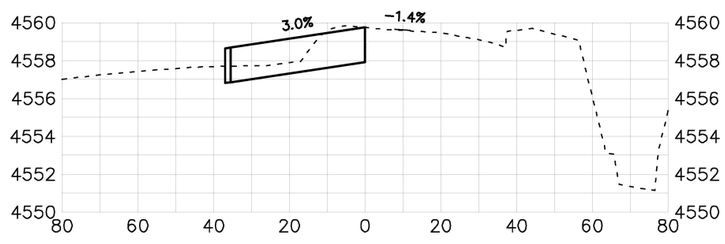

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DESCRIPTION	DATE
REVISION ⚠1 REV 1	DATE
REVISION ⚠2 REV 2	DATE
REVISION ⚠3 REV 3	DATE
REVISION ⚠4 REV 4	DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – 24 RD 4

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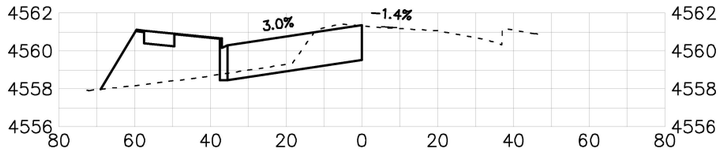

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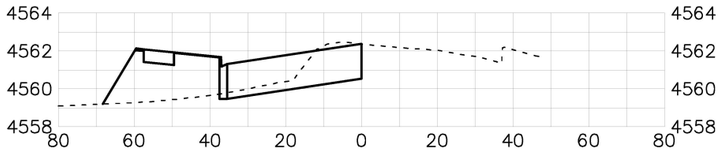

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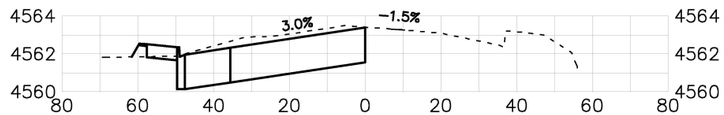

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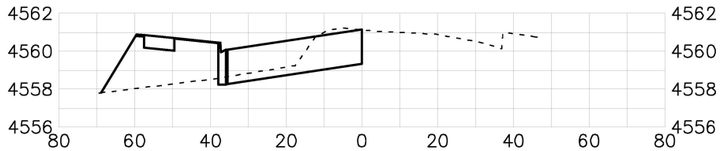

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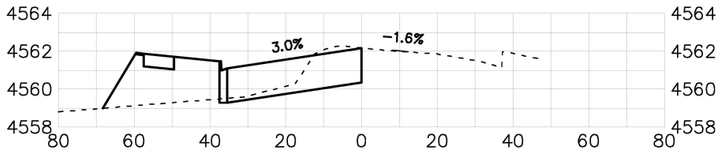

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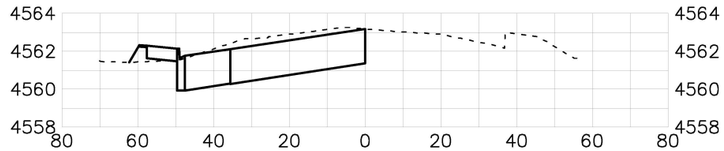

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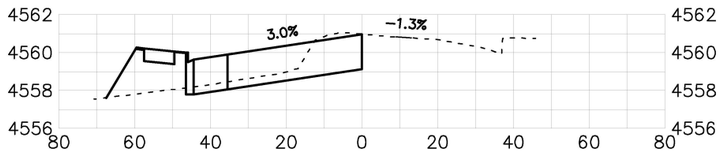

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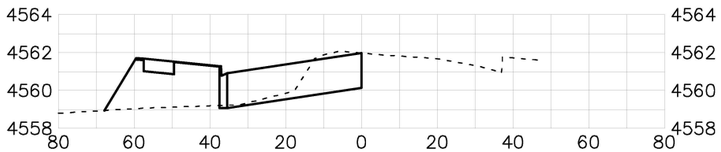

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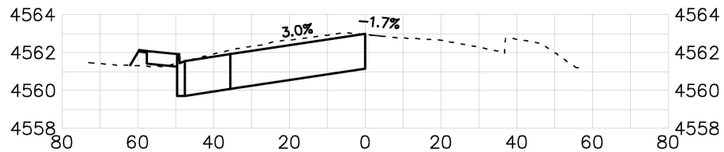

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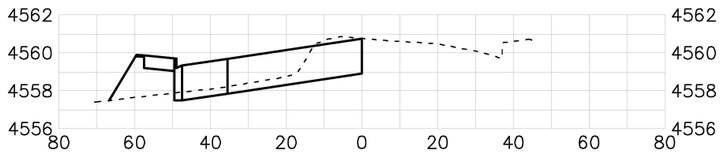

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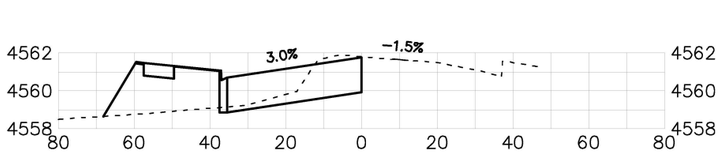

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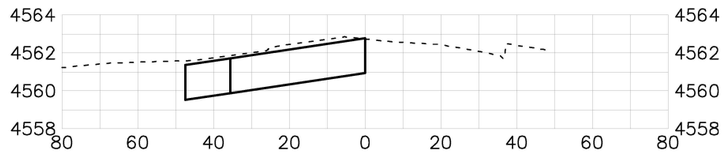

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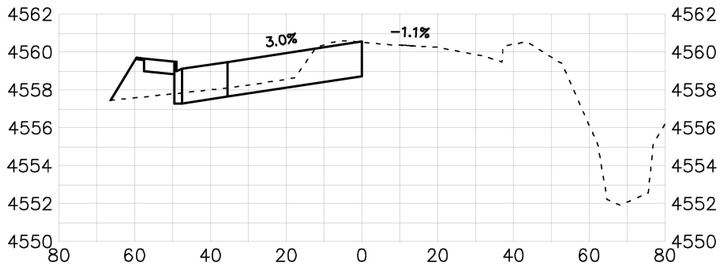

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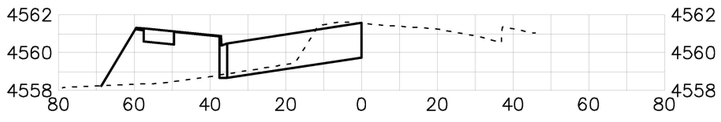

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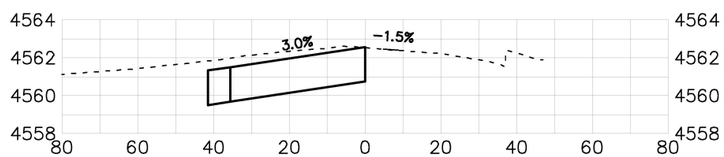

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DESCRIPTION	DATE
REVISION ⚠ REV 1	– DATE
REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – 24 RD 5

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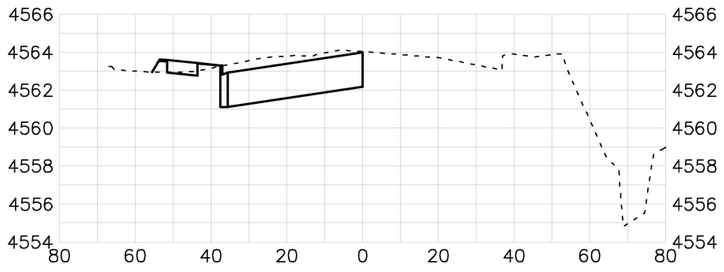

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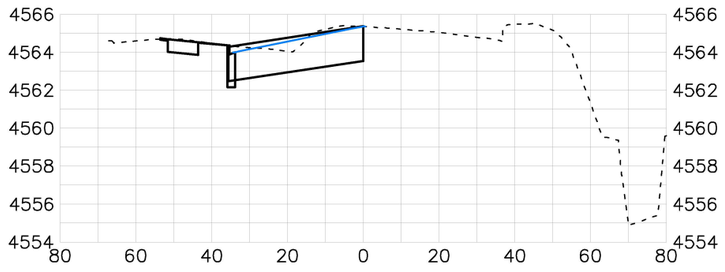

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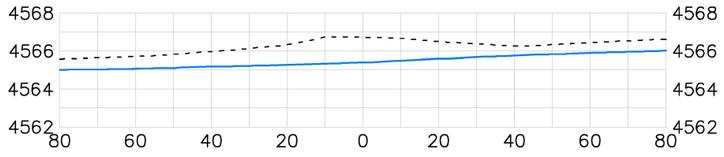

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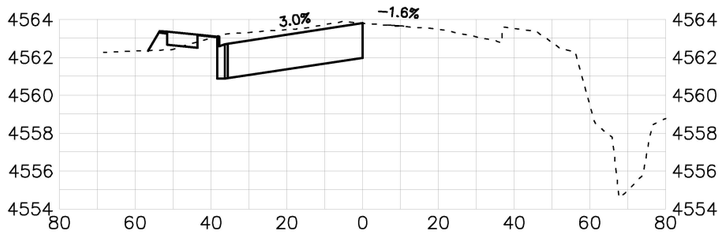

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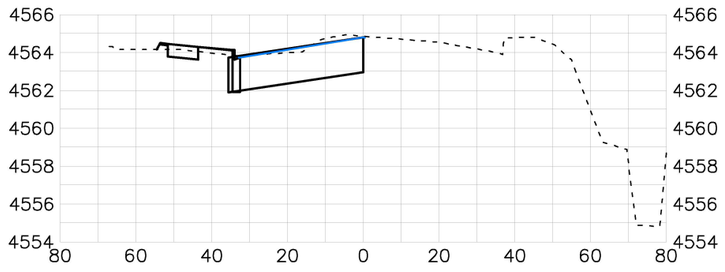

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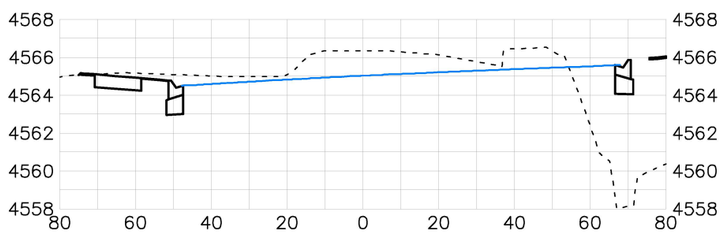

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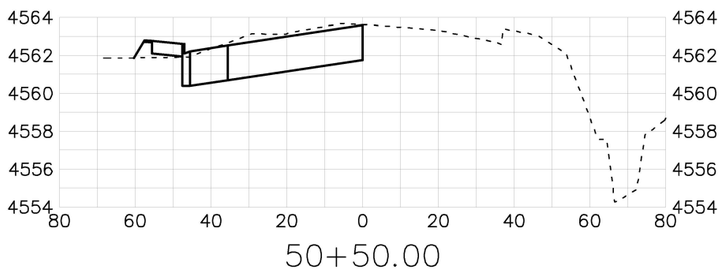

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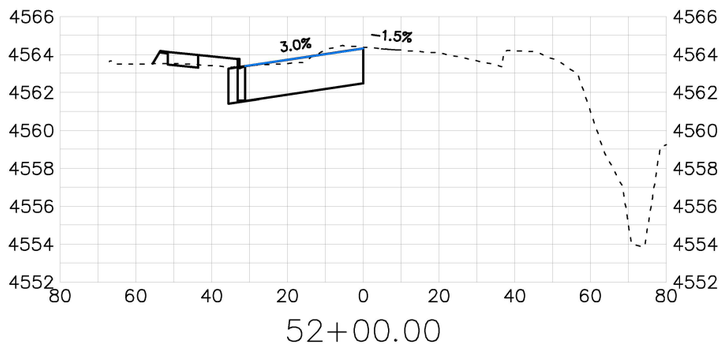

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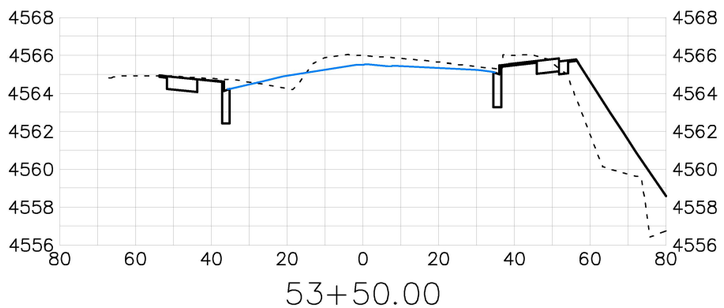

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DESCRIPTION	DATE
REVISION 1 REV 1	DATE
REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY JCS DATE 2020
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APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

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PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – 24 RD 6

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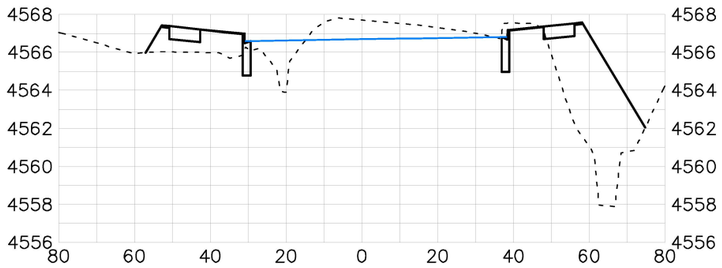

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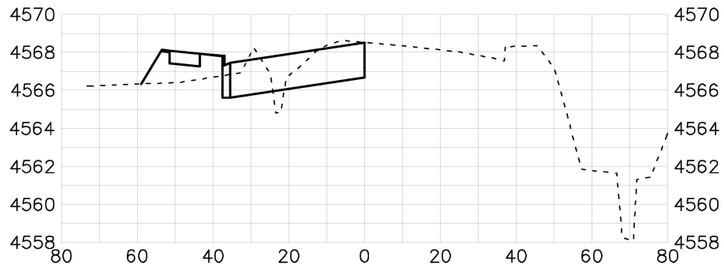

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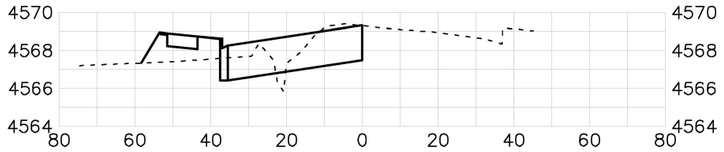

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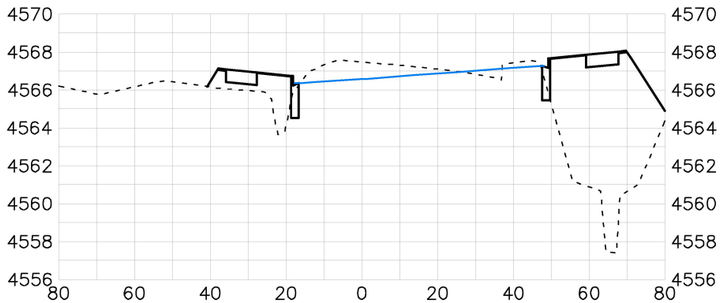

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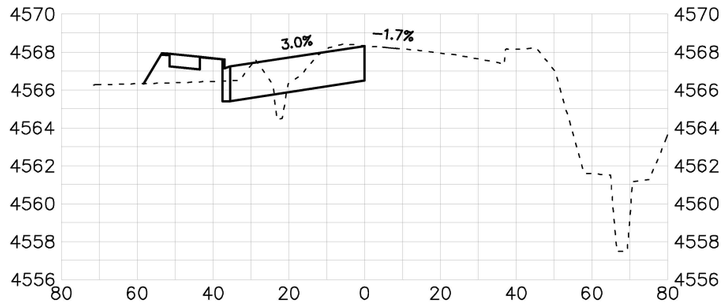

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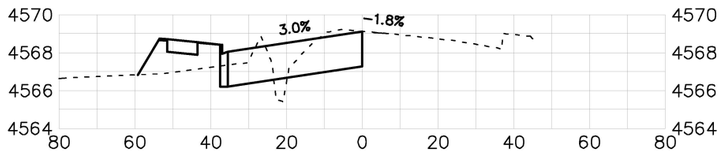

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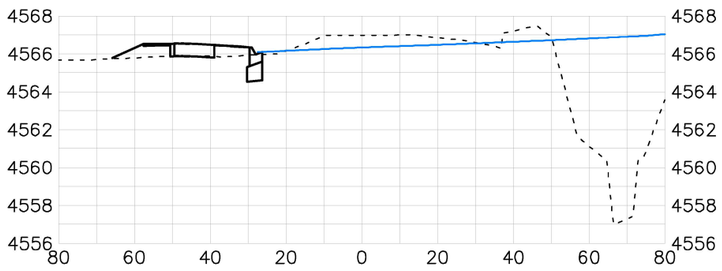

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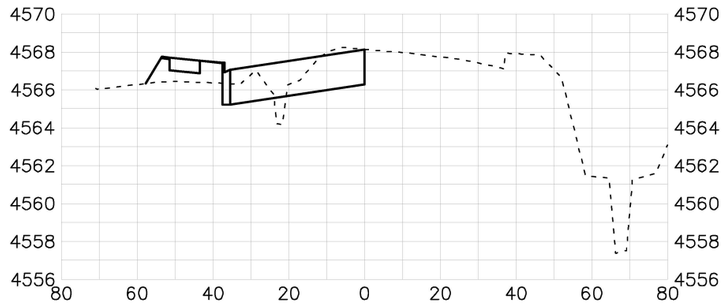

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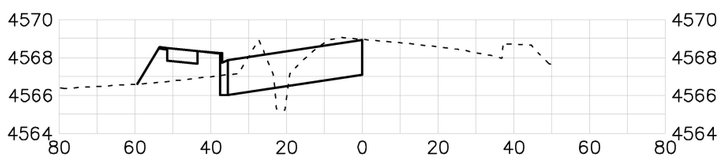

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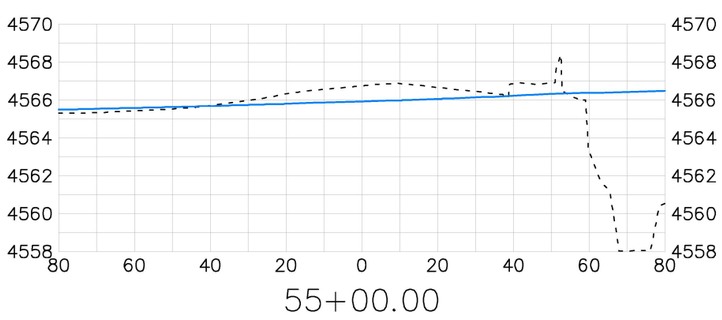

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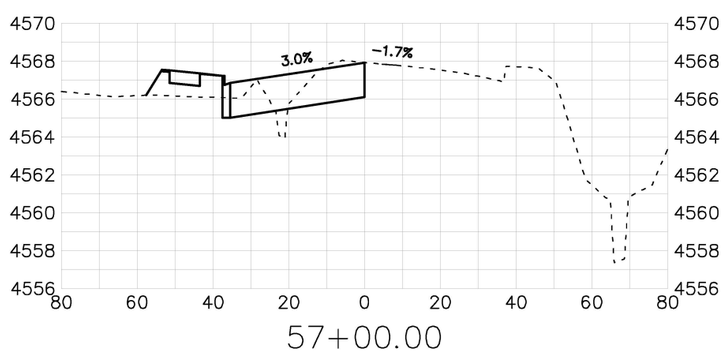

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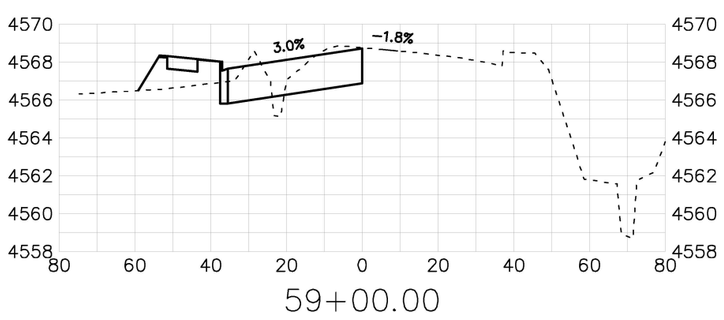

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DESCRIPTION	DATE
REVISION ⚠ REV 1	– DATE
REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – 24 RD 7

106

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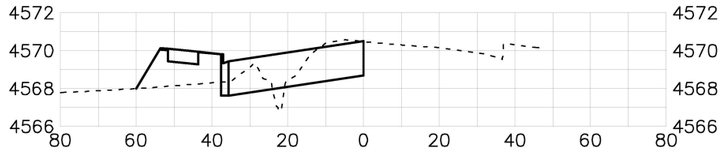

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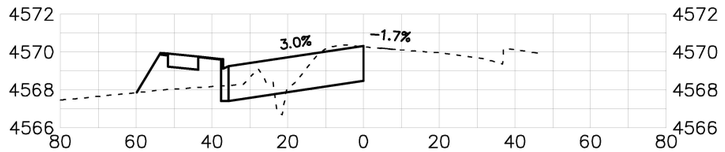

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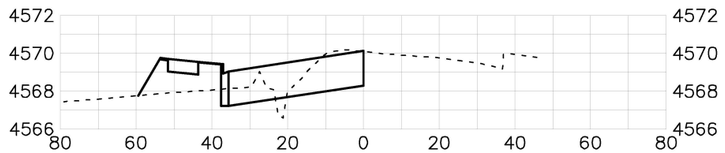

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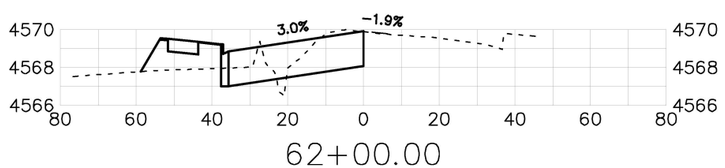

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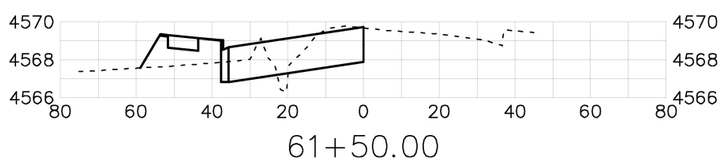

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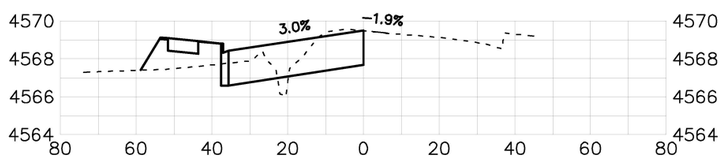

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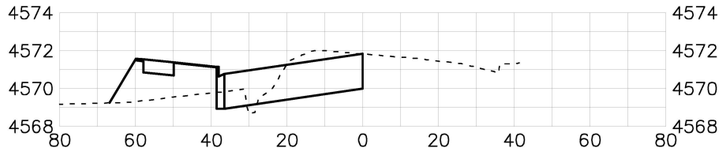

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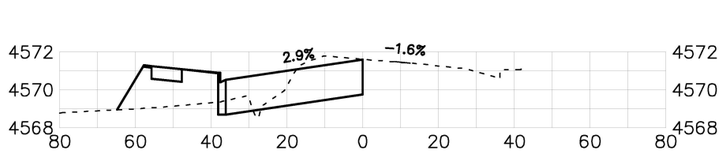

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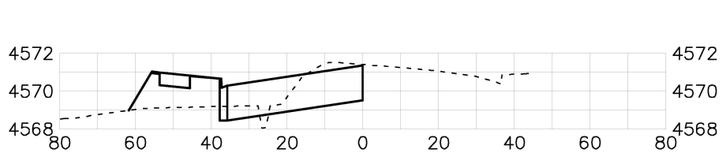

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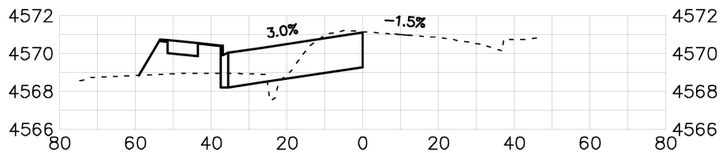

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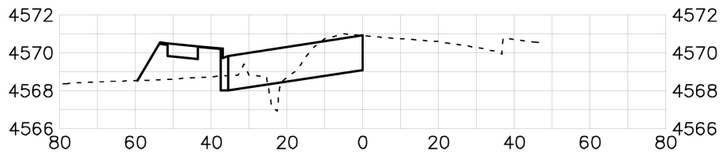

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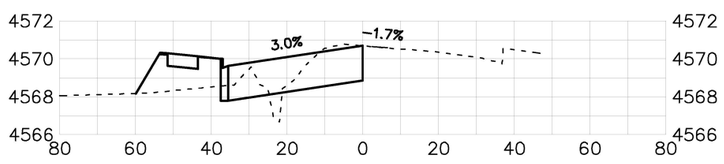

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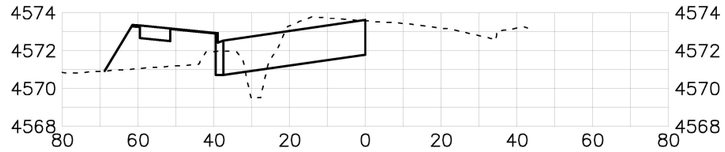

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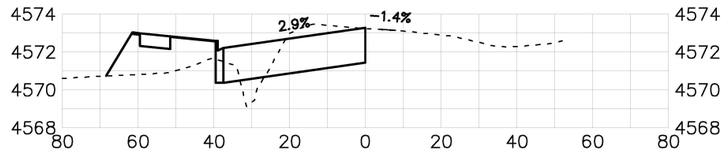

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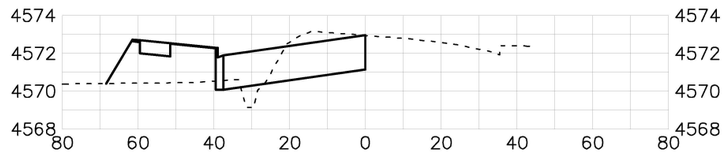

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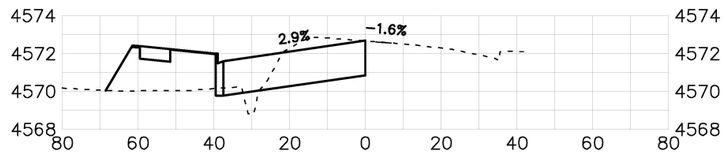

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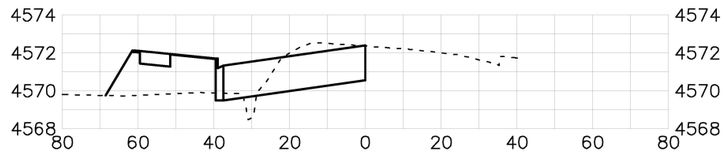

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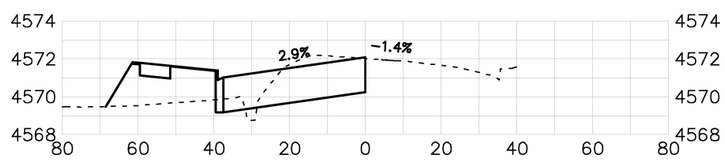

DESCRIPTION	DATE
REVISION ⚠ REV 1	DATE
REVISION ⚠ REV 2	DATE
REVISION ⚠ REV 3	DATE
REVISION ⚠ REV 4	DATE

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – 24 RD 8

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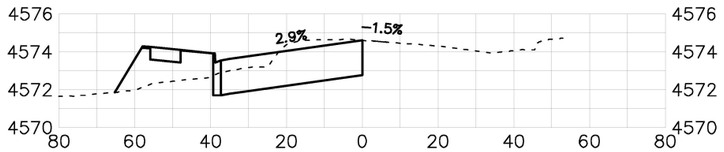

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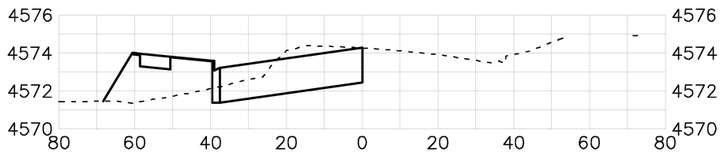

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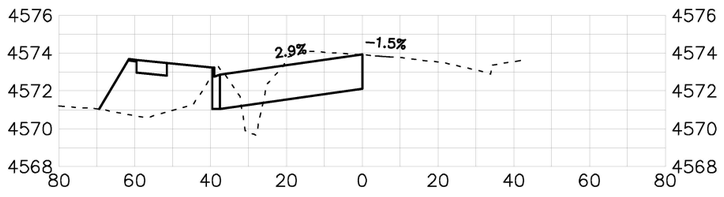

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DESCRIPTION	DATE
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REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
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APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – 24 RD 9

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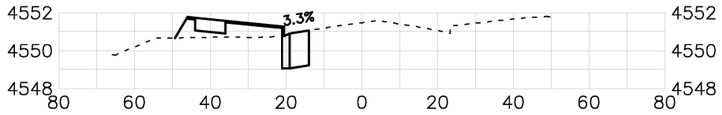

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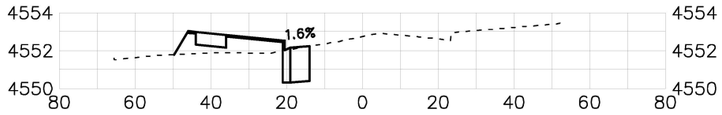

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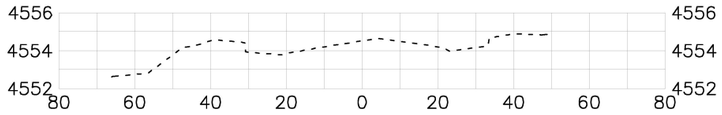

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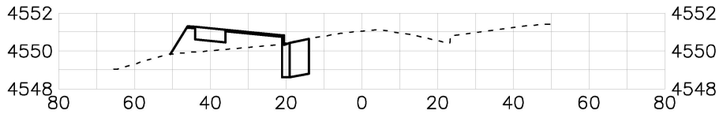

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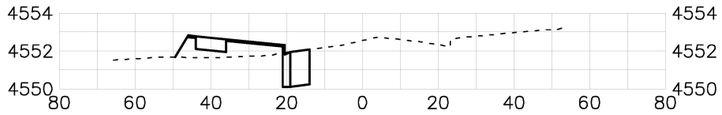

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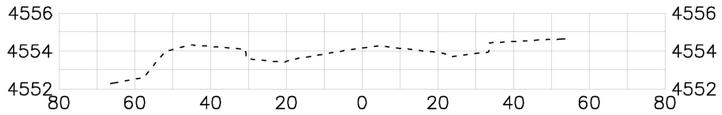

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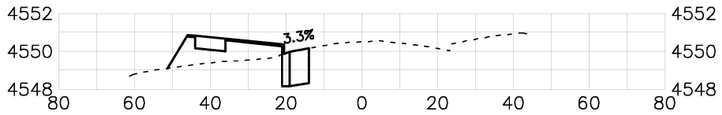

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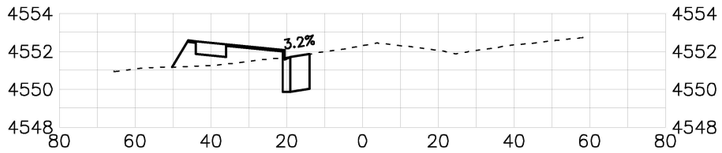

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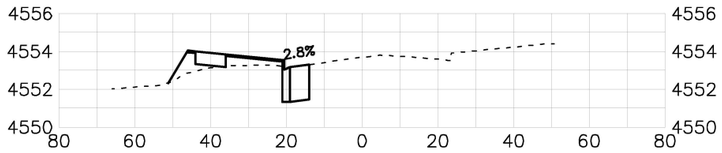

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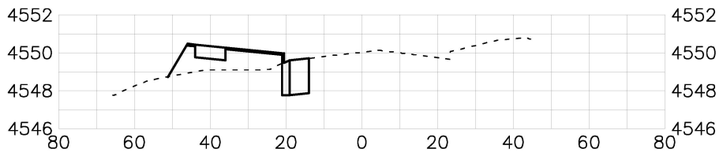

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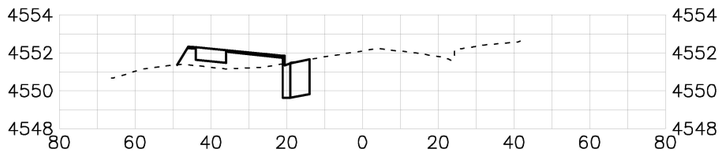

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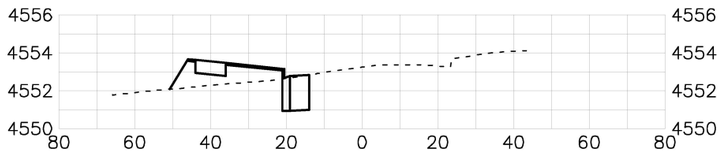

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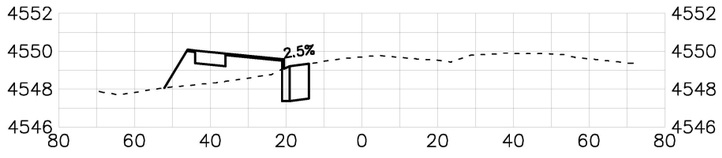

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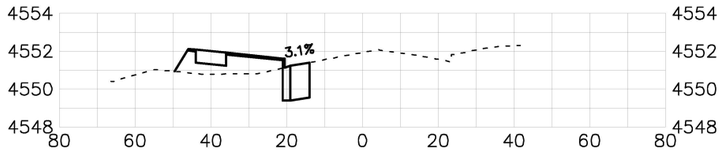

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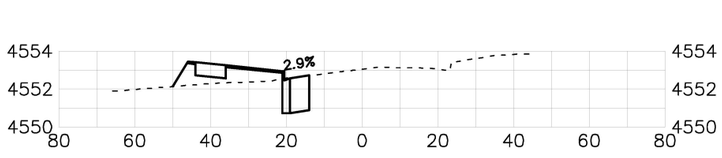

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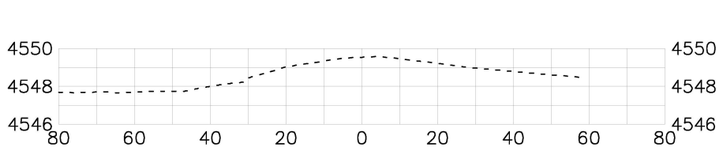

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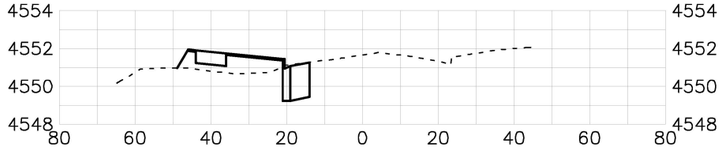

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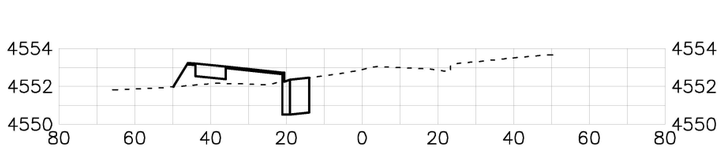

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DESCRIPTION	DATE
REVISION 1 REV 1	DATE
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REVISION 4 REV 4	DATE

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – G RD 1

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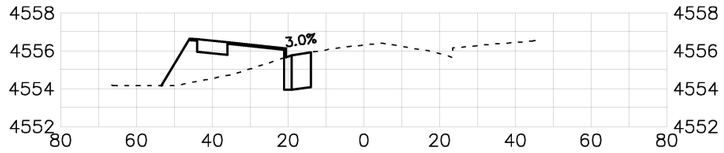

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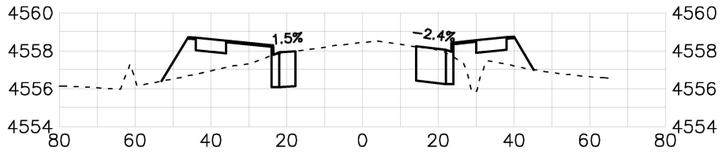

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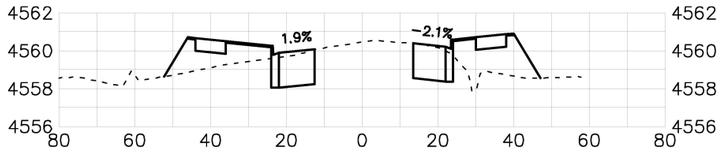

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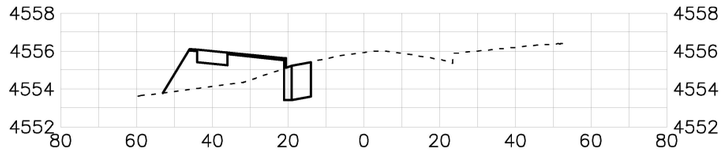

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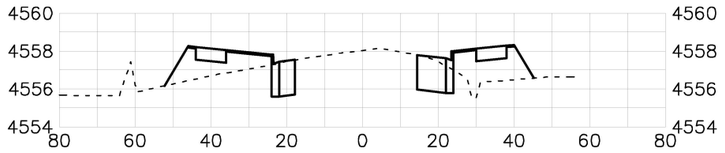

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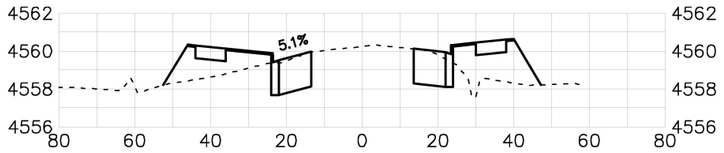

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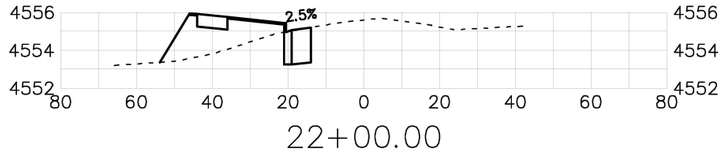

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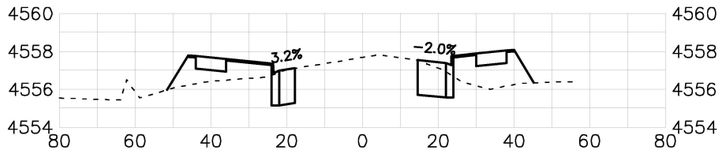

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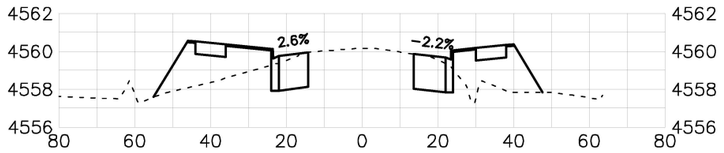

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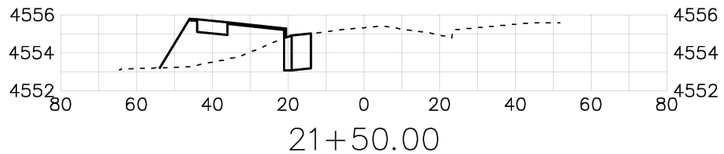

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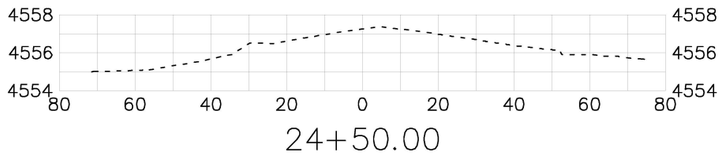

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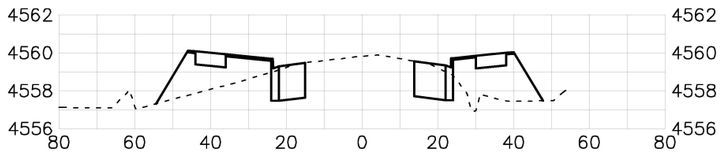

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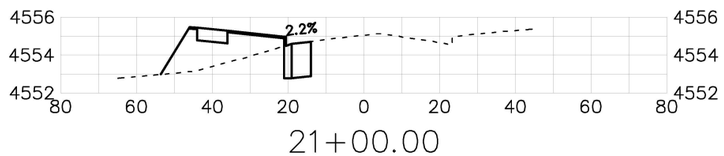

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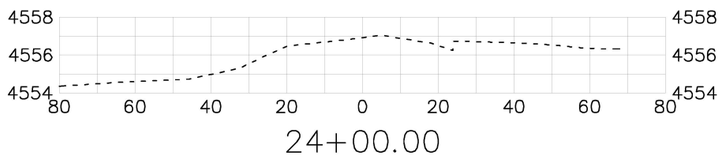

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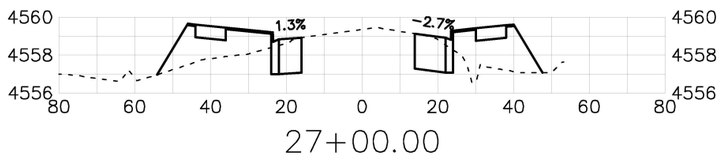

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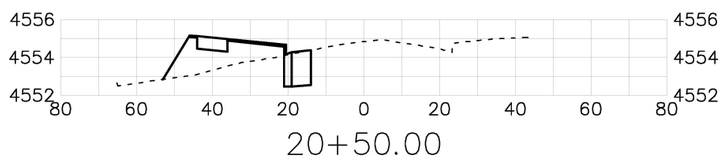

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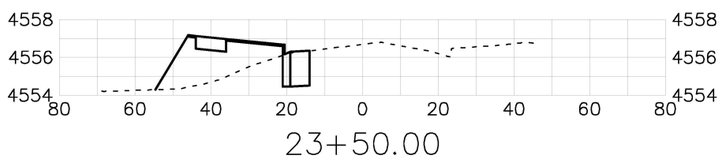

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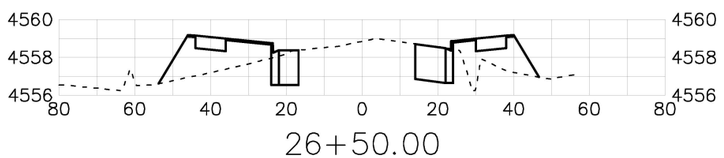

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DESCRIPTION	DATE
REVISION 1 REV 1	DATE
REVISION 2 REV 2	DATE
REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

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VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

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PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – G RD 2

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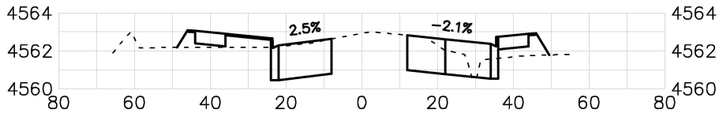

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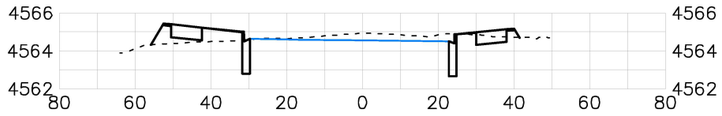

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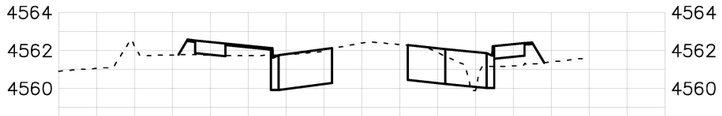

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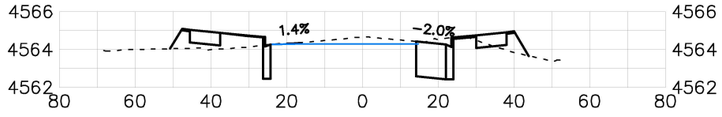

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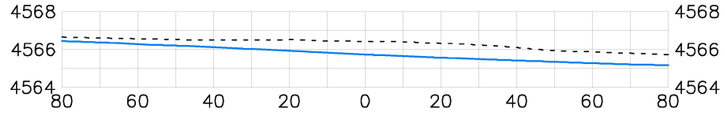

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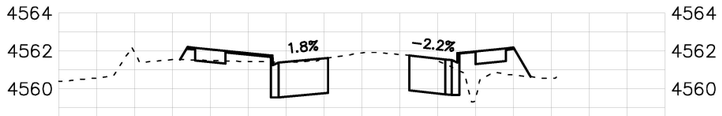

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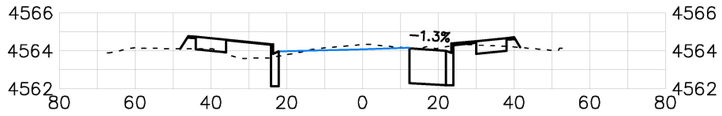

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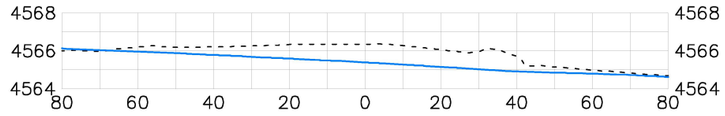

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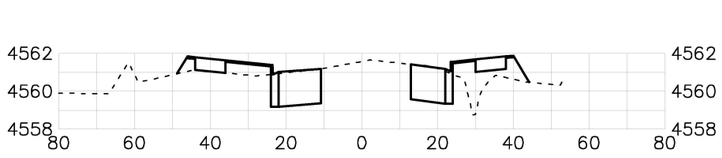

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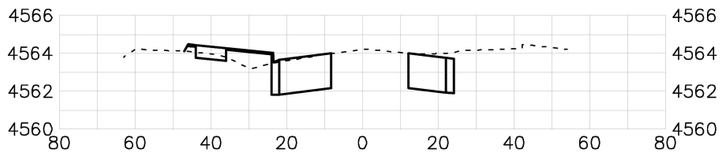

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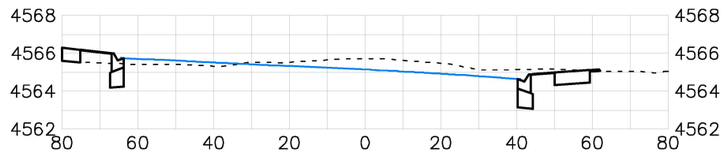

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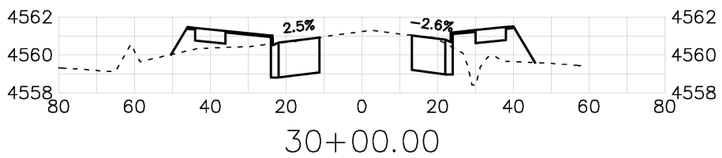

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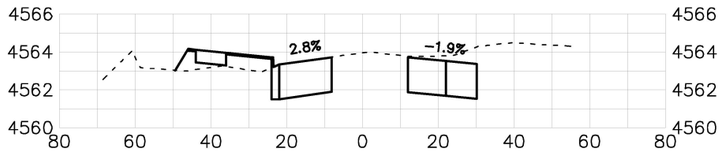

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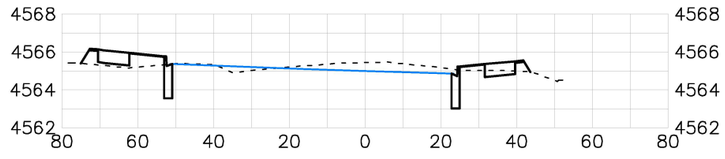

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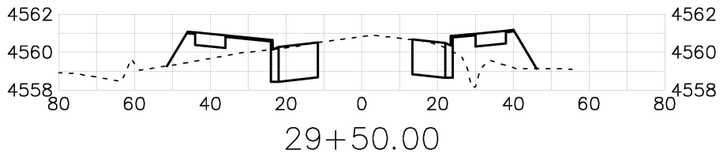

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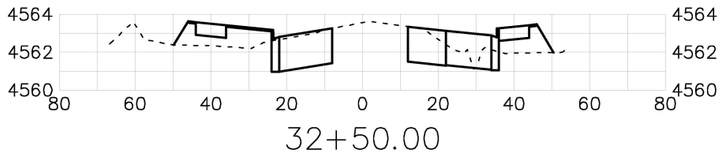

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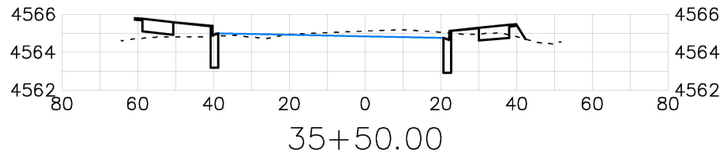

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DESCRIPTION	DATE
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DRAWN BY JCS DATE 2020
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CITY OF Grand Junction COLORADO

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PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – G RD 3

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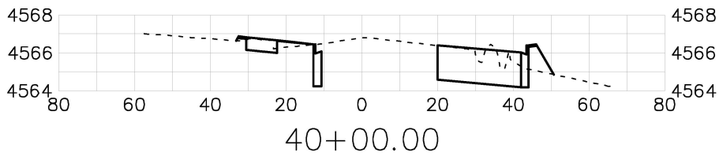

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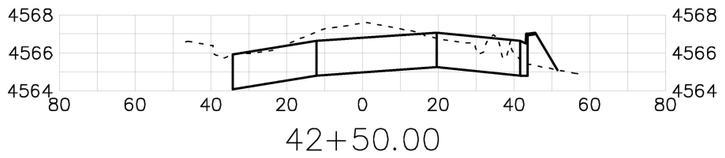

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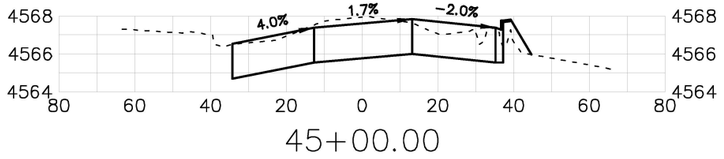

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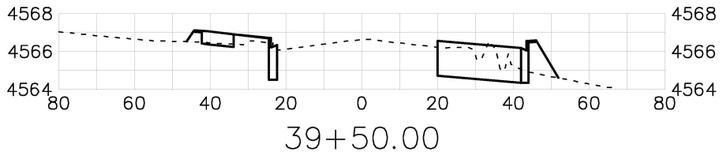

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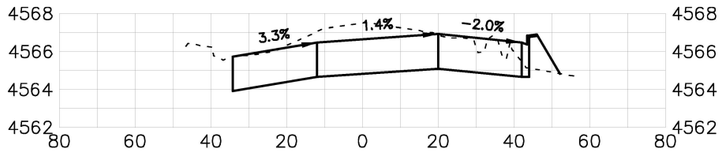

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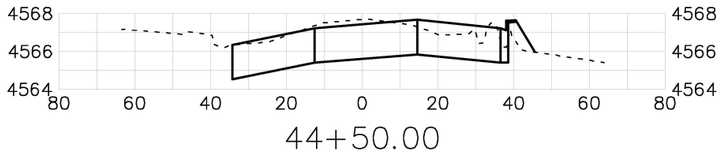

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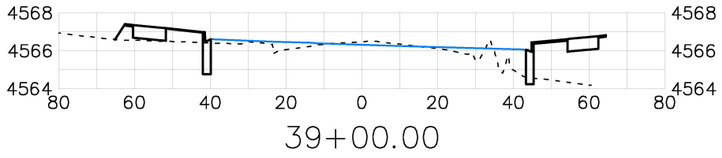

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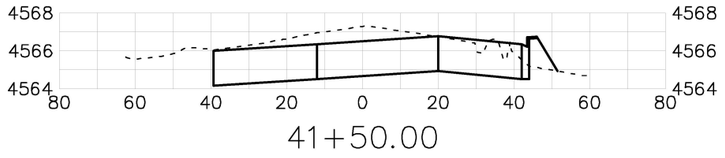

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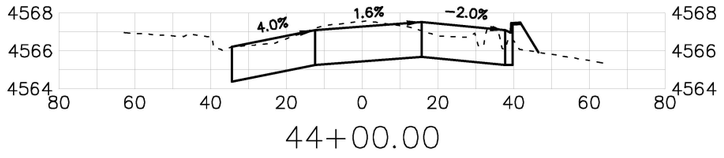

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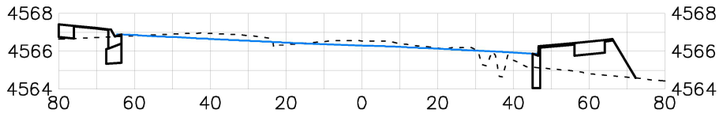

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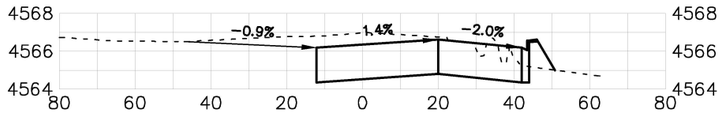

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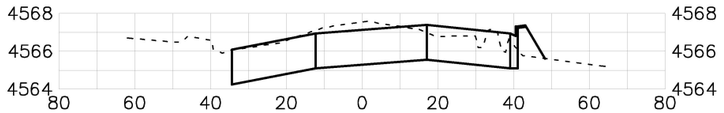

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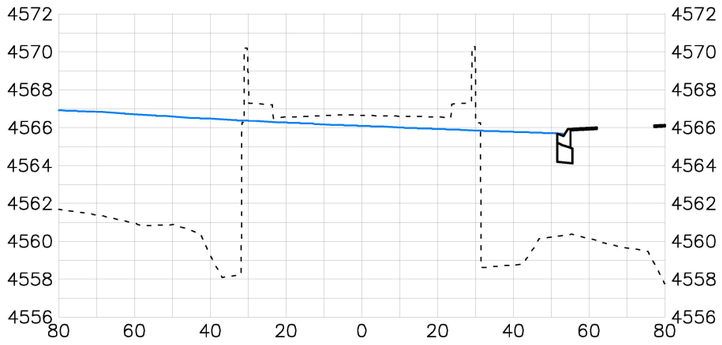

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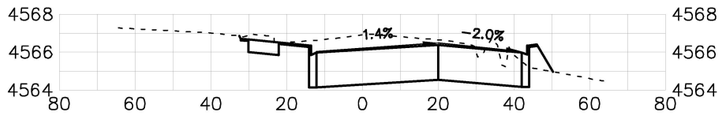

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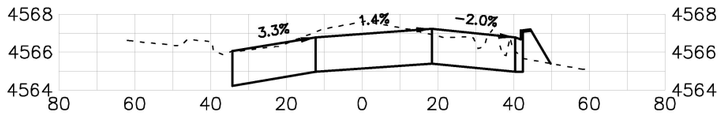

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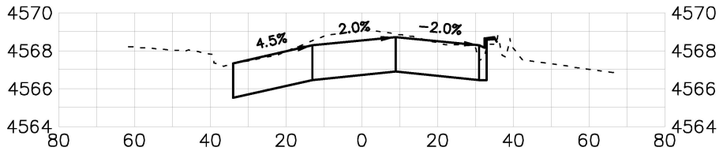

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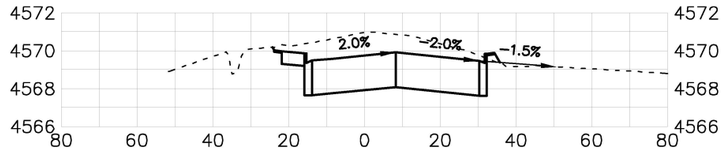

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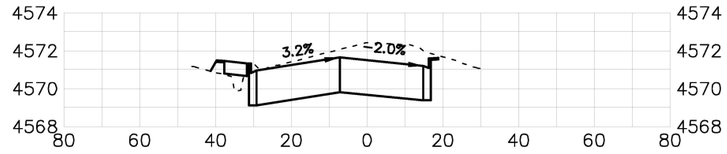

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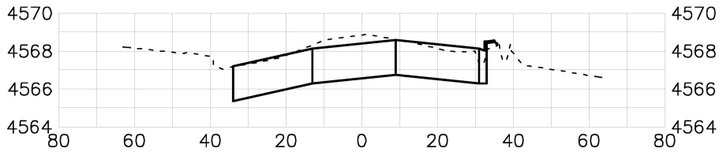

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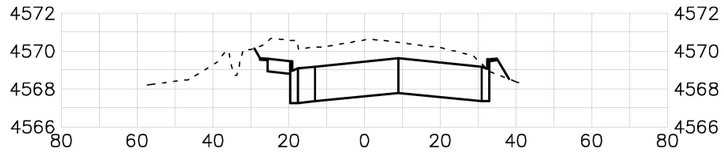

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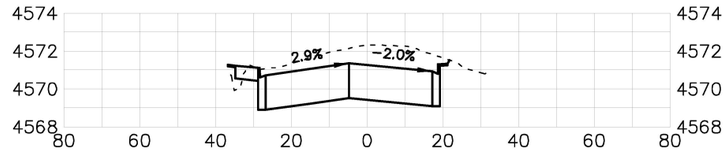

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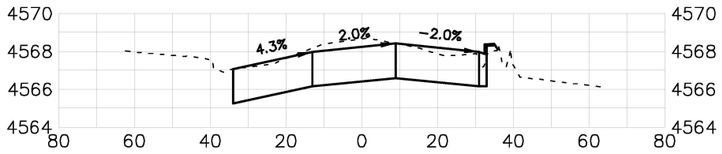

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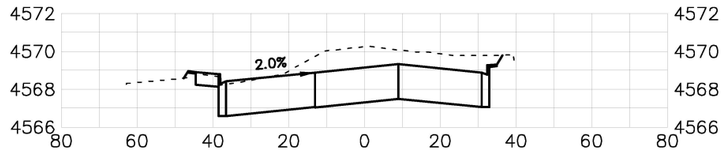

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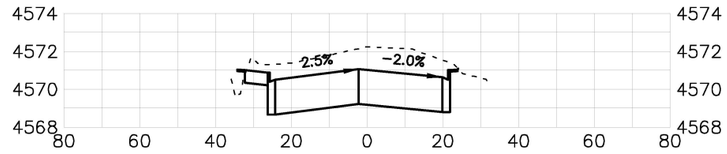

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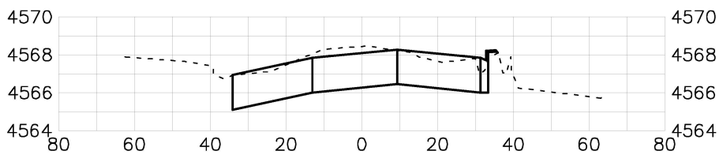

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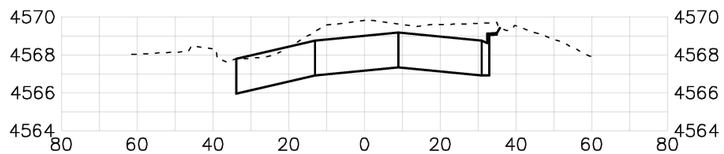

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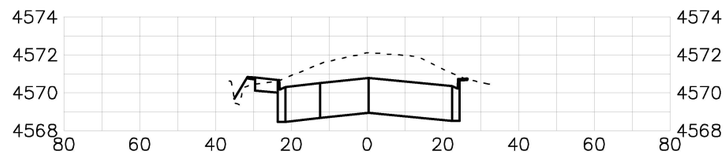

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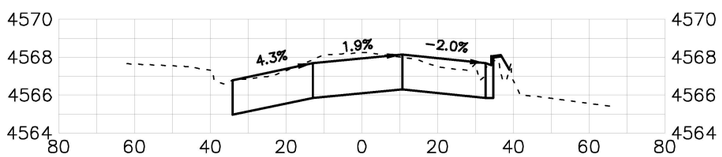

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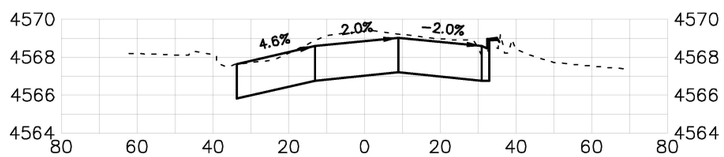

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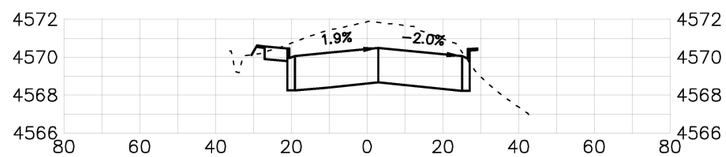

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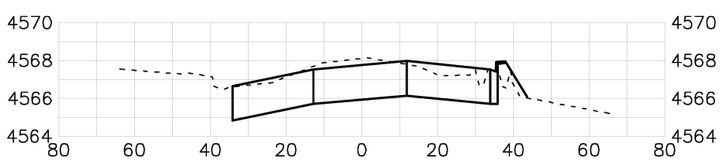

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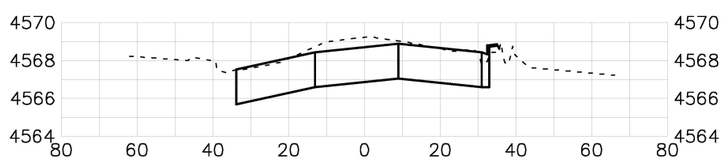

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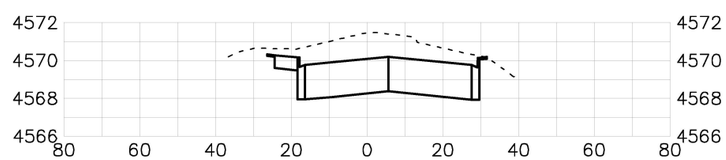

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REVISION ⚠ REV 1	DATE
REVISION ⚠ REV 2	DATE
REVISION ⚠ REV 3	DATE
REVISION ⚠ REV 4	DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – G RD 5

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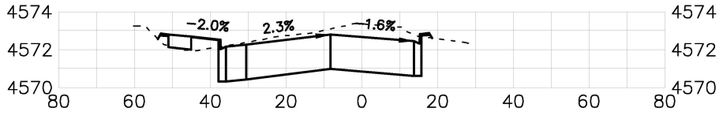

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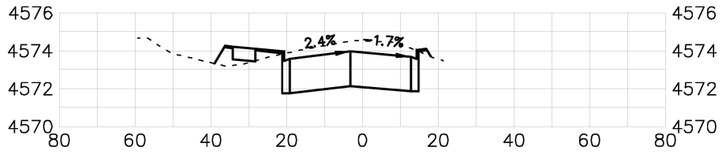

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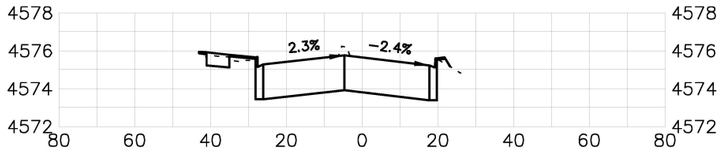

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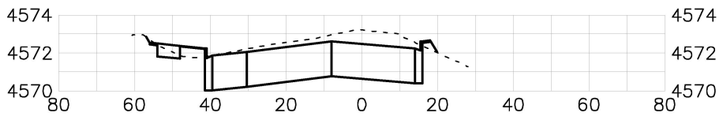

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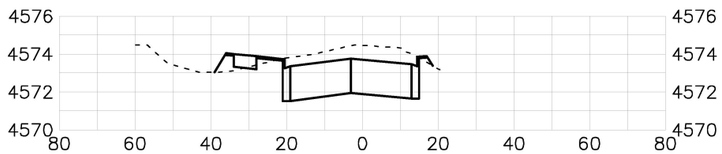

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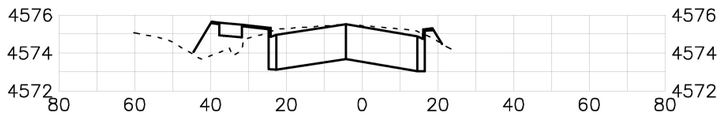

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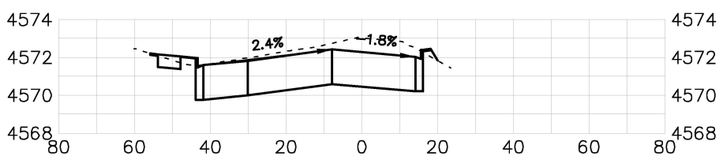

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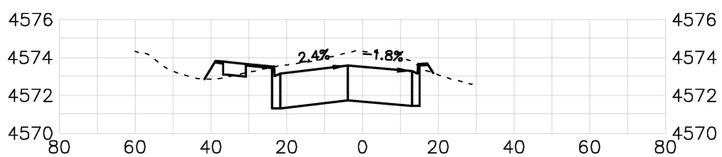

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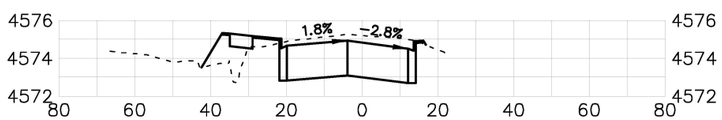

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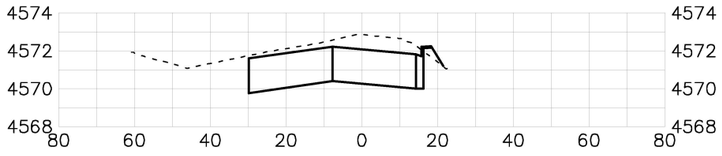

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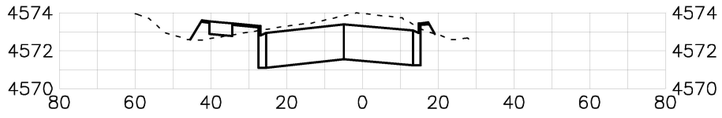

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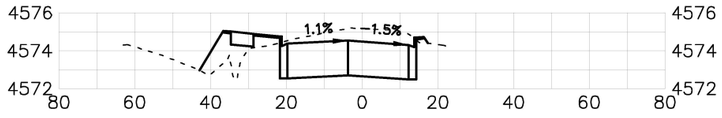

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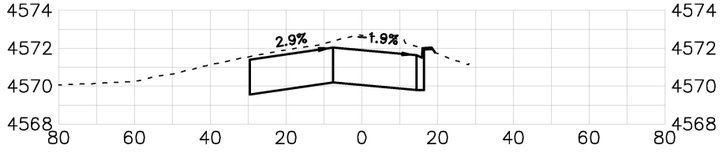

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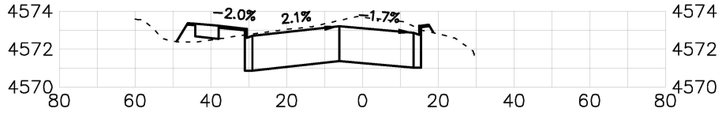

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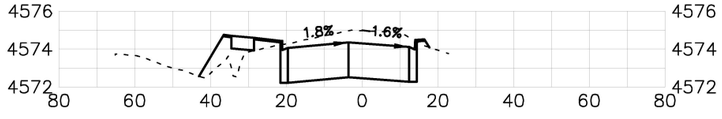

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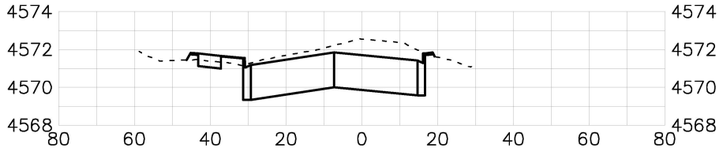

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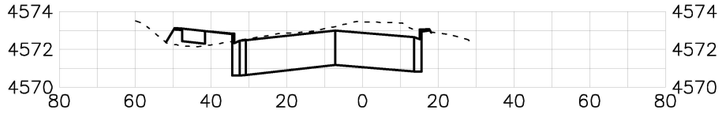

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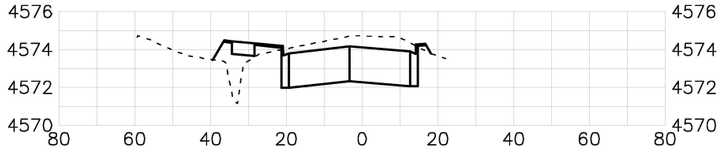

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DESCRIPTION	DATE
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REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
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PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. 207-F1903

24 ROAD AND G ROAD
ROAD CROSS SECTIONS – G RD 6

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Oversight / NHS	
FHWA REGION VIII OVERSIGHT?	■ NO □ YES
NATIONAL HIGHWAY SYSTEM?	■ NO □YES

PUBLIC WORKS, ENGINEERING DIVISION
CITY OF GRAND JUNCTION

BIKE PATH CONSTRUCTION BID PLANS OF PROPOSED
FEDERAL AID PROJECT NO. XXXX XXXX-XXX
24 ROAD BIKE PATH
MESA COUNTY
CONSTRUCTION PROJECT CODE NO. XXXXX
SEC. 4, TOWNSHIP 1 SOUTH, RANGE 1 WEST, UTE PRINCIPAL MERIDIAN
SEC. 33, TOWNSHIP 1 NORTH, RANGE 1 WEST, UTE PRINCIPAL MERIDIAN

Related Projects:	
P. E. UNDER PROJECT:	
Project Number	XXXX XXXX-XXX
Project Code:	XXXXX
R.O.W. Projects:	
R.O.W. Project Description	XXXX XXXX-XXX

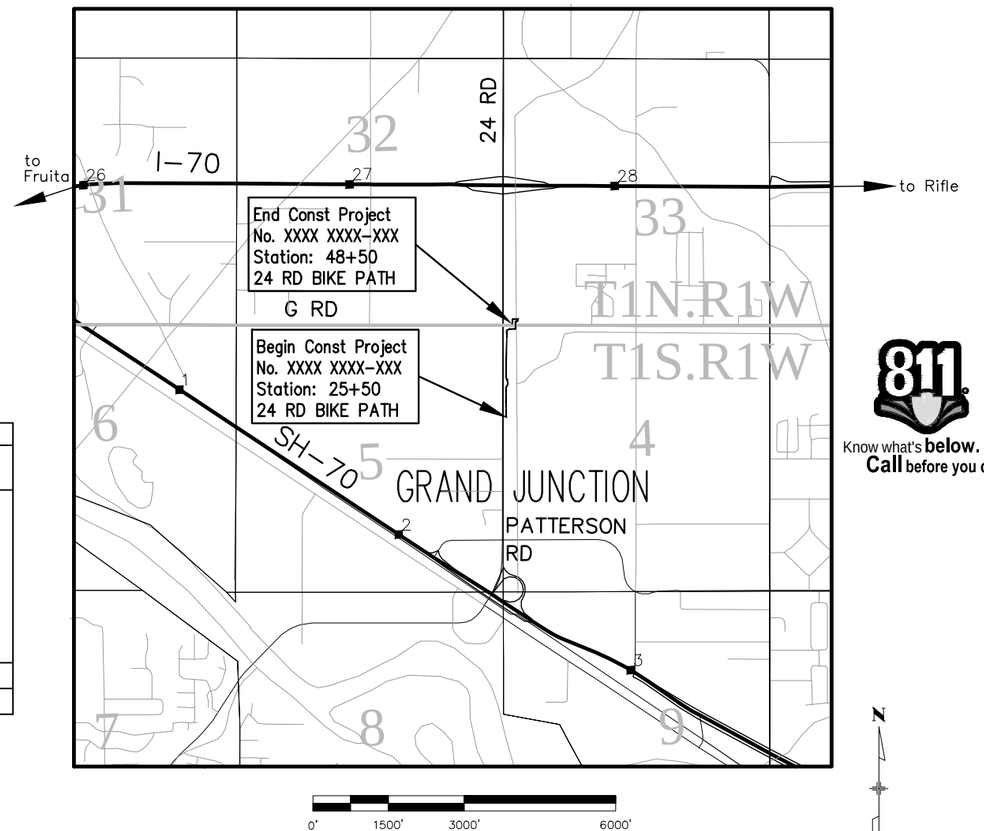
DESCRIPTION OF PROJECT

CONSTRUCT A BIKE PATH FROM THE END OF THE EXISTING PATH AT 659 MARKET ST TO CANYON VIEW PARK AT THE NORTH EAST CORNER OF 24 ROAD AND G ROAD. THIS IS A BIKE PATH FUNDED PROJECT WHICH INCLUDES UNCLASSIFIED EXCAVATION, AGGREGATE BASE COURSE, CONCRETE PAVEMENT, DRAINAGE PIPELINE INSTALLATION, SANITARY SEWER PIPELINE RELOCATION, POTABLE WATER PIPELINE RELOCATION, PEDESTRIAN TUNNEL INSTALLATION, AND PREFABRICATED STRUCTURAL STEEL BRIDGE INSTALLATION.

A MANDATORY PRE-BID CONFERENCE WILL BE HELD ON MONTH DAY, YEAR AT TIME XM AT THE MESA CONFERENCE ROOM LOCATED AT 606 SOUTH 9TH STREET (CDOT MAINTENANCE BUILDING), GRAND JUNCTION, COLORADO TO PRESENT A BRIEF OVERVIEW OF THE PROJECT AND TO ANSWER QUESTIONS FROM PROSPECTIVE BIDDERS.

TABULATION OF LENGTH

STATION	BIKE PATH	BRIDGE	TUNNEL
24 ROAD BIKE PATH STA 25+50 TO STA 48+50	2300		
24 ROAD BIKE PATH STA 32+35 TO STA 33+05		70	
24 ROAD BIKE PATH STA 44+75 TO STA 45+69			94
TOTAL FEET	2300	70	94
TOTAL MILES	0.44		



PROJECT LOCATION MAP

Know what's **below.** **Call** before you dig. 811

SHEET No. INDEX OF SHEETS

1 TITLE SHEET
2 CITY STANDARD ABBREVIATIONS, LEGEND, & SYMBOLS
NA CDOT STANDARD PLAN LIST
NA TYPICAL SECTIONS
NA GENERAL NOTES
NA PROJECT OVERVIEW
NA SUMMARY OF APPROXIMATE QUANTITIES
NA SUMMARY OF EARTHWORK QUANTITIES
NA TABULATION OF REMOVALS
NA TABULATION OF SURFACING
NA TABULATION OF UNDERGROUND UTILITIES AND PEDESTRIAN TUNNEL
NA TABULATION OF WALLS, HEADWALLS, AND WINGWALLS
NA TABULATION OF MISCELLANEOUS ITEMS
NA SURVEY TABULATION
NA PROJECT SURVEY CONTROL
NA REMOVAL PLAN
NA UTILITY PLAN
3-4 SANITARY SEWER RELOCATE
5 WATER LINE RELOCATE
6-7 STORM DRAIN RELOCATE
NA CULVERT PLAN AND PROFILES
8 PEDESTRIAN TUNNEL PLAN AND PROFILE
NA WALL PLAN AND PROFILES
9-15 BIKE PATH IMPROVEMENT PLAN
16-19 BIKE PATH PROFILE
20-23 BIKE PATH CROSS SECTIONS
NA STORM WATER MANAGEMENT PLAN
NA STORM WATER MANAGEMENT SITE PLAN

SHEET No. BRIDGE PLANS

Print Date: as shown	Sheet Revisions	Colorado Department of Transportation	As Constructed
File Name: as shown	Date: / Comments / Init.	606 South 9th Street	No Revisions:
Horiz. Scale: As Noted Vert. Scale: As Noted		Grand Junction, CO, 81501	Revised:
Unit Information: City of GJ Unit Leader Initials: ALC		Phone: 970-683-6351 FAX: 970-683-6369	Void:
CITY OF Grand Junction COLORADO 333 West Avenue, Bldg C Grand Junction, CO, 81501 Phone: 970-244-1554		Region 3 RBB	

Contract Information	Project No./Code
Contractor:	NHPP xxxx-xxx
Resident Engineer:	xxxxx
Project Engineer:	
PROJECT STARTED: __/__/__ ACCEPTED: __/__/__	Sheet Number 1
Comments:	

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ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
ABC	AGGREGATE BASE COURSE
AC	ASBESTOS CEMENT
AP	ANGLE POINT
ASB	ANCHORED STRAW BALES
ASP	ALUMINIZED STEEL PIPE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BACK OF CURB
BF	BUTTERFLY VALVE
BOW	BACK OF WALK
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BSWMP	BETTER STORM WATER MANAGEMENT PRACTICES
CH	CHORD
CAP	CORRUGATED ALUMINUM PIPE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CI	CAST IRON
C,G,& SW	CURB, GUTTER & SIDEWALK
℄	CENTER LINE
CL	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMB	COMBINATION (AS IN STORM SEWER AND SANITARY SEWER)
CONC	CONCRETE
CSM	CITY SURVEY MONUMENT
CSP	CORRUGATED STEEL PIPE
CU	COPPER
DI	DUCTILE IRON
DWY	DRIVEWAY
E	ELECTRIC
ECR	END CURB RETURN
EG	EDGE OF GUTTER
EL	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
FB	FULL BODY
FC	FACE OF CURB
FG	FINISHED GRADE
℄	FLOW LINE
FL	FLANGE
FM	FORCE MAIN
FO	FIBER OPTICS
FS	FAR SIDE
FTG	FOOTING
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HBP	HOT BITUMINOUS PAVEMENT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
IRR	IRRIGATION
L	LENGTH OF ARC
LC	LONG CHORD
LF	LINEAR FEET
LL	LONG ARC
LS	SHORT ARC
LT	LEFT
MB	MAILBOX
MCSM	MESA COUNTY SURVEY MONUMENT
MH	MANHOLE
MJ	MECHANICAL JOINT
MW	MILL WRAP
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOP	NO ONE PERSON
NRCP	NON-REINFORCED CONCRETE PIPE
NS	NEAR SIDE
NTS	NOT TO SCALE
OHP	OVERHEAD POWER
OHT	OVERHEAD TELEPHONE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHYLENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PIP	PLASTIC IRRIGATION PIPE
POC	POINT ON CURVE
POT	POINT ON TANGENT
PR	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
RG	RESTRAINED GLANDS
RL	LONG RADIUS
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAIL ROAD
RS	SHORT RADIUS
RT	RIGHT
S	SLOPE
SAN	SANITARY
SC	SHORT CHORD
SCD	STANDARD CONTRACT DOCUMENTS
SCH	SCHEDULE
SF	SILT FENCE
SL	SECTION LINE
SSRB	STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION
SSUU	STANDARD SPECIFICATIONS FOR CONSTRUCTION OF UNDERGROUND UTILITIES
STA	STATION
STL	STEEL
STM	STORM
T	TELEPHONE
TAN	LENGTH OF TANGENT
TC	TOP OF CURB
TH	TEST HOLE
TV	TELEVISION
(TYP)	TYPICAL
UU	UNDERGROUND UTILITIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVATURE
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER
Δ	DELTA ANGLE

LEGEND

BSWMP
DRAINAGE BASIN BOUNDARY

BSWMP
ANCHORED STRAW BALES — ASB ASB ASB ASB ASB ASB ASB

BSWMP
SILT FENCE — SF SF SF SF SF SF SF

BUILDING

CONCRETE CURB AND GUTTER — 2' CURB AND GUTTER

CONCRETE CURB,GUTTER, & SIDEWALK — 7' C, G, & SW

CONCRETE DITCH — CONCRETE

CONCRETE SIDEWALK — 4' SW

CULVERT — 18" RCP

EARTH DITCH — EARTH EARTH EARTH

EDGE OF GRAVEL

EDGE OF PAVEMENT

FENCE (HT & MATL NOTED) — 6' CHAINLINK

GUARD RAIL

HATCHING:
INDICATES ASPHALT REMOVAL

HATCHING:
INDICATES CONCRETE REMOVAL

HATCHING:
INDICATES STAGING AREA — ~STAGING AREA~

LINE (CENTER OF IMPROVEMENTS) — CENTERLINE

LINE (CITY LIMITS) — CITY LIMITS

LINE (CONTROL) — CONTROL LINE

LINE (EASEMENT)

LINE (MONUMENT/SECTION) — MONUMENT/SECTION LINE

LINE (PROPERTY)

LINE (RIGHT OF WAY)

MATCH LINE — MATCH LINE

PIPE (IRRIGATION) — 4" IRR

PIPE (SIPHON) — 4" SIPHON

PROPOSED CONCRETE CURB AND GUTTER

PROPOSED CONCRETE CURB,GUTTER,& SIDEWALK

PROPOSED CONCRETE SIDEWALK

PROPOSED "WET" UTILITIES (CONSTRUCTION NOTE WILL INDICATE TYPE, SIZE, AND MATERIAL OF NEW MAIN) — 8" PVC SANITARY SEWER

ALL PROPOSED FEATURES NOT SHOWN IN LEGEND WILL BE SHOWN THE SAME AS THEIR EXISTING COUNTERPART, BUT INDICATED BY BOLDER LINETYPE

RAIL ROAD

RETAINING WALL — 1' RETAINING WALL

STRIPING (CONTINUOUS WHITE) — WHITE

STRIPING (DASHED WHITE) — WHITE

STRIPING (CONTINUOUS YELLOW) — YELLOW

STRIPING (DASHED YELLOW) — YELLOW

TOP OF SLOPE — 4580

CONTOUR LINES
(SHOWN BETWEEN TOP & TOE)

TOE OF SLOPE — 4570

TRAFFIC DETECTOR LOOP

UTILITY LINE (ABANDON)
(THIS CASE A WATER LINE) — W (ABANDONED) 8" W

UTILITY LINE (CABLE TV) — TV TV

UTILITY LINE (ELECTRIC) — E E

UTILITY LINE (FIBER OPTIC) — FO QWEST FO

UTILITY LINE (GAS) — G 1 1/4" MW G

UTILITY LINE (HIGH VOLTAGE OVERHEAD POWER) — HVOHP

UTILITY LINE
(OVERHEAD POWER) — OHP

UTILITY LINE
(OVERHEAD TELEPHONE) — OHT

UTILITY LINE
(SANITARY SEWER) — 8" SAN

UTILITY LINE
(SANITARY SEWER FORCE MAIN) — 8" FM

UTILITY LINE
(SANITARY SEWER SERVICE) — SS

UTILITY LINE
(STORM SEWER) — 8" STM

UTILITY LINE
(STORM SEWER, PERFORATED) — 6" PERF

UTILITY LINE
(STORM/SANITARY SEWER SEWER COMBINATION) — 18" COMB

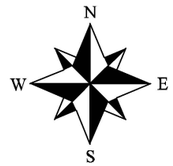
UTILITY LINE (TELEPHONE) — T T

UTILITY LINE (WATER) — W 8" W

SYMBOLS

BENCH MARK — A
CATCH BASIN
CLEAN OUT — CO
CURB STOP
FIRE HYDRANT
GUY WIRE ANCHOR
HEADGATE
IRRIGATION PUMP
MAILBOX — MB
MANHOLE (ELECTRIC) — E
MANHOLE (GAS) — G
MANHOLE (SANITARY/STORM)
MANHOLE (TELEPHONE) — T
MANHOLE (TV) — TV
MANHOLE (WATER) — W
METER (GAS) — GM
METER (WATER)
PEDESTAL (TELEPHONE)
PEDESTAL (TV) — TV
PROPERTY PIN — PIN
PULL BOX
REDUCER FITTING
SIGN OR POST (SIGN TYPE NOTED) — STOP
SPRINKLER HEAD
STREET LIGHT
SURVEY MONUMENT (CITY) — CSM
SURVEY MONUMENT (TYPE NOTED) — MCSM
TEST HOLE — TH #1
TRAFFIC PAINT MARKING
TRAFFIC SIGNAL POLE AND MAST ARM
UTILITY POLE
VALVE (GAS) — GV
VALVE (IRRIGATION) — IRR
VALVE (WATER)
VEGETATION (HEDGE OR BUSH)
VEGETATION (TREE STUMP)
VEGETATION (TREE) (CALIPER SIZE NOTED) — 6"
WATER HYDRANT — WH
WEIR — W
YARD LIGHT

NORTH ARROW:



BAR SCALE:

GRAPHIC SCALE

10 0 20 40

(IN FEET)
1 inch = 20 ft.

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

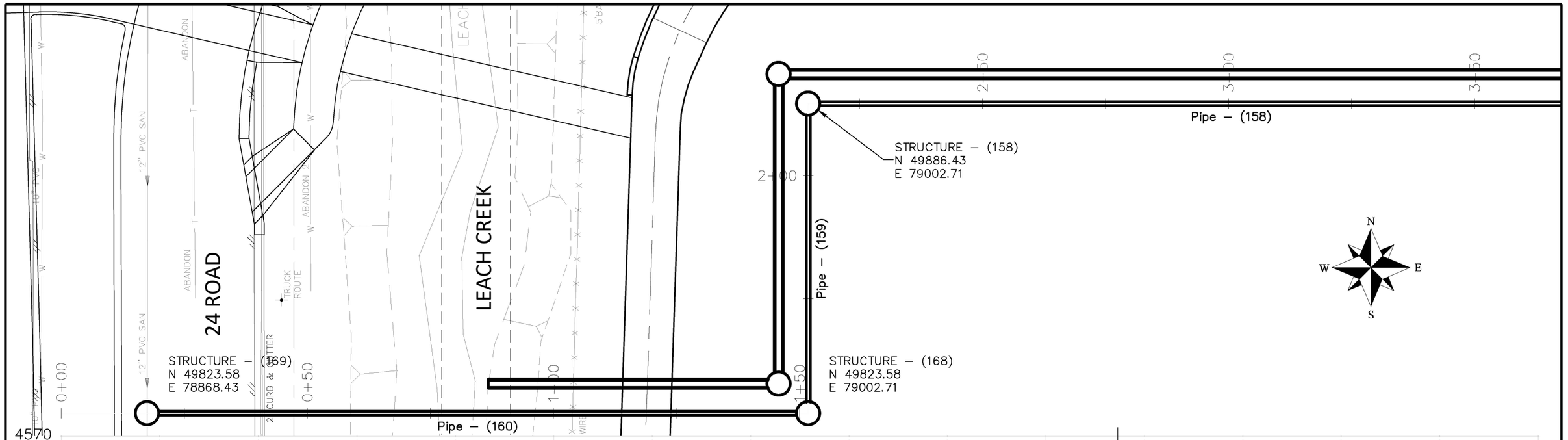
SEE PLAN FOR SCALE INFO

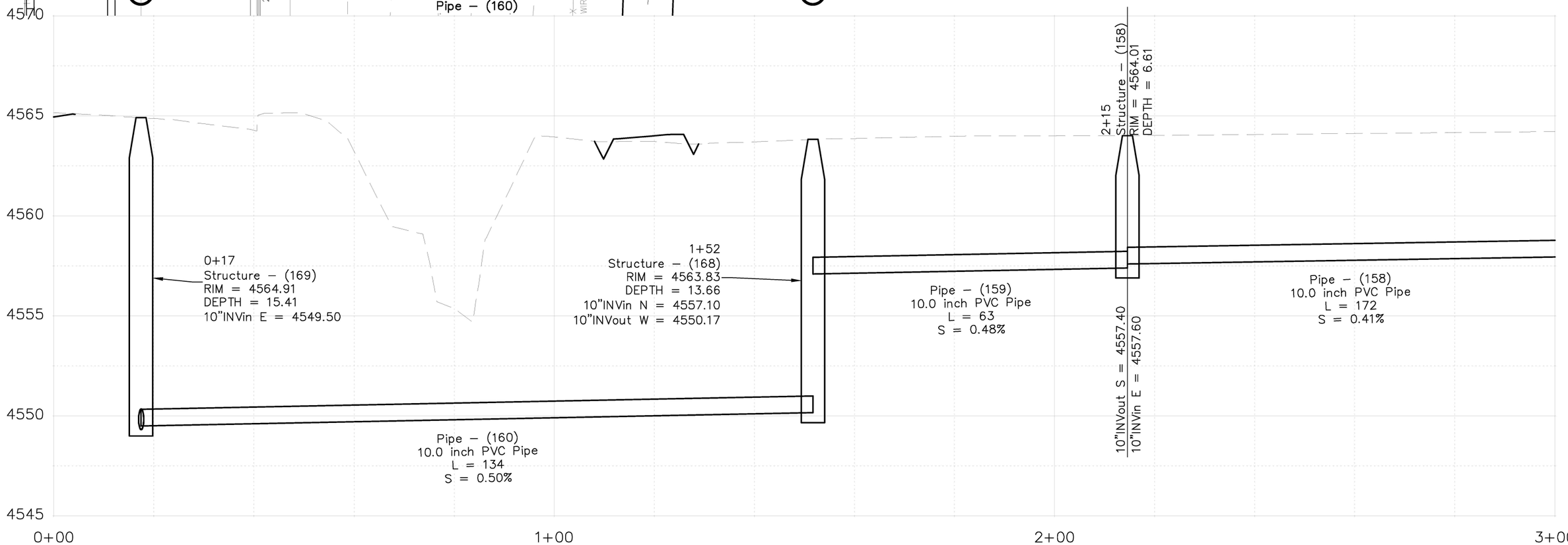
CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND—ACTIVITY NO

24 ROAD BIKE PATH
STANDARD ABREVIATIONS LEGENDS & SYMBOLS

2





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REVISION ⚠ REV 4	– DATE

DRAWN BY	JCS	DATE	2020
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CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
SANITARY SEWER RELOCATE – 1
June 10, 2020

3

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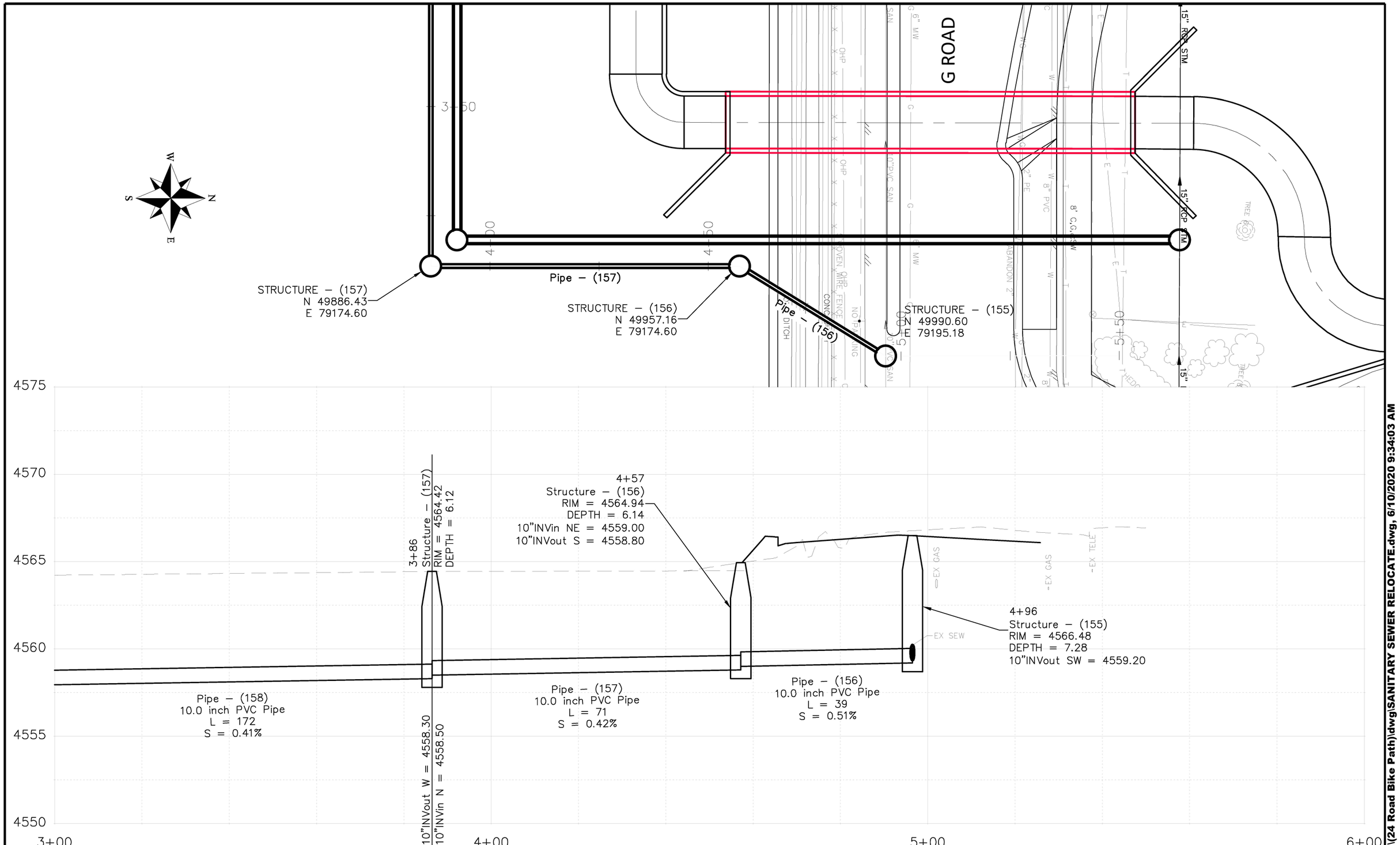

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APPROVED BY	TCP	DATE	2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
SANITARY SEWER RELOCATE – 2
June 10, 2020

4

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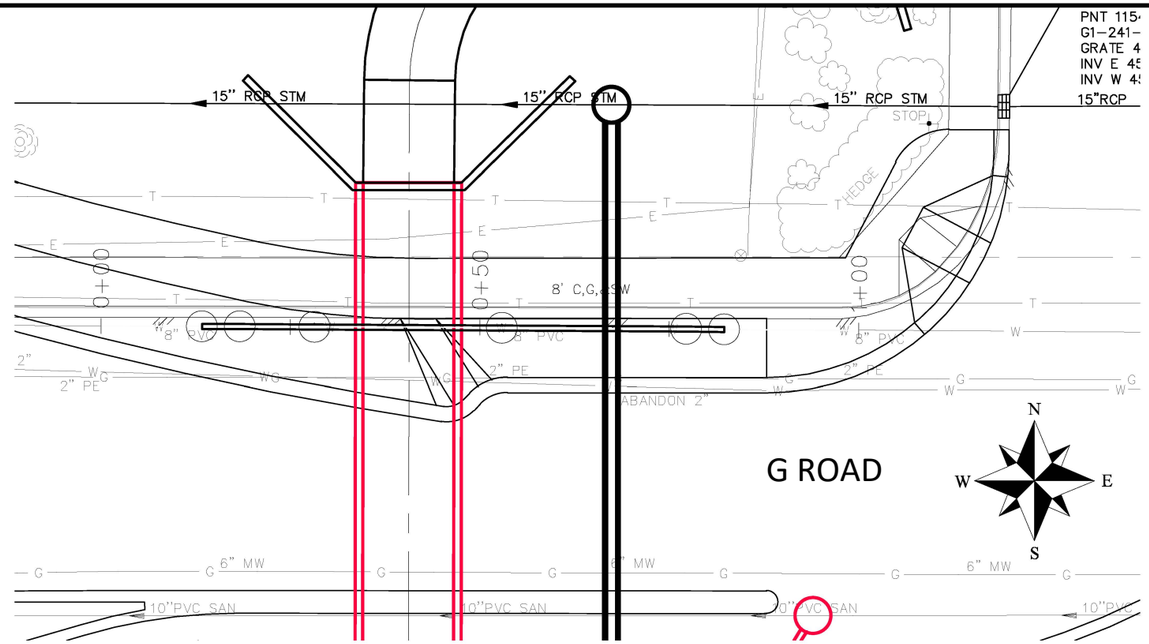

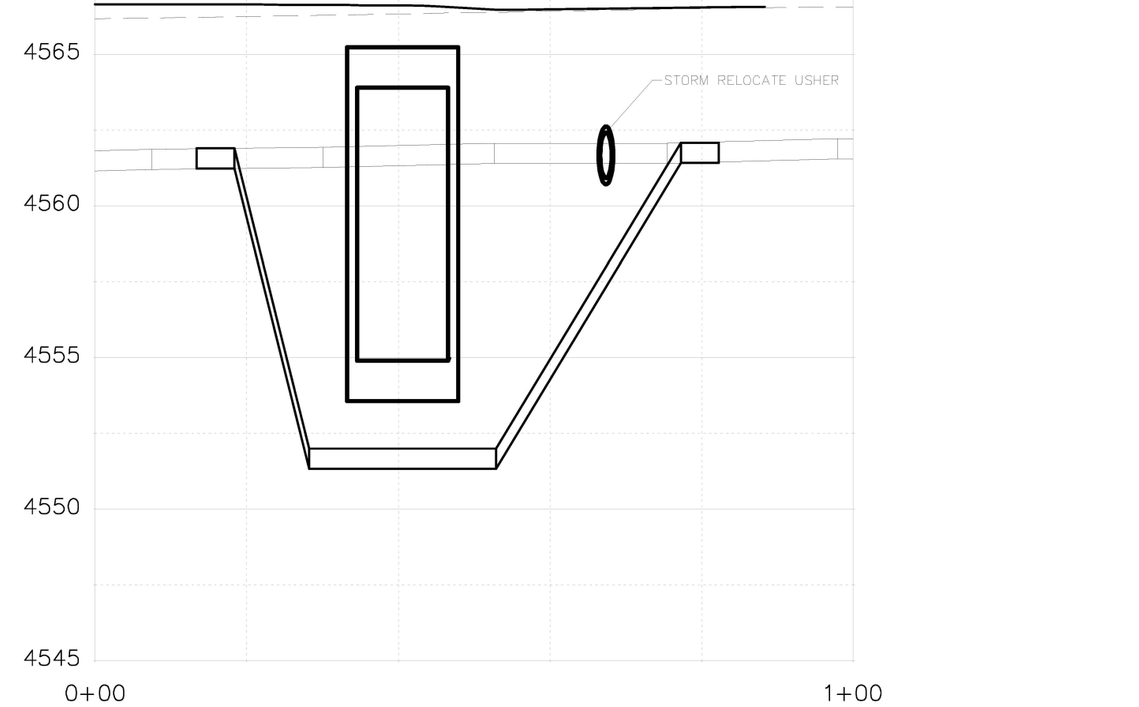

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CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
WATER LINE RELOCATE – 1
June 10, 2020

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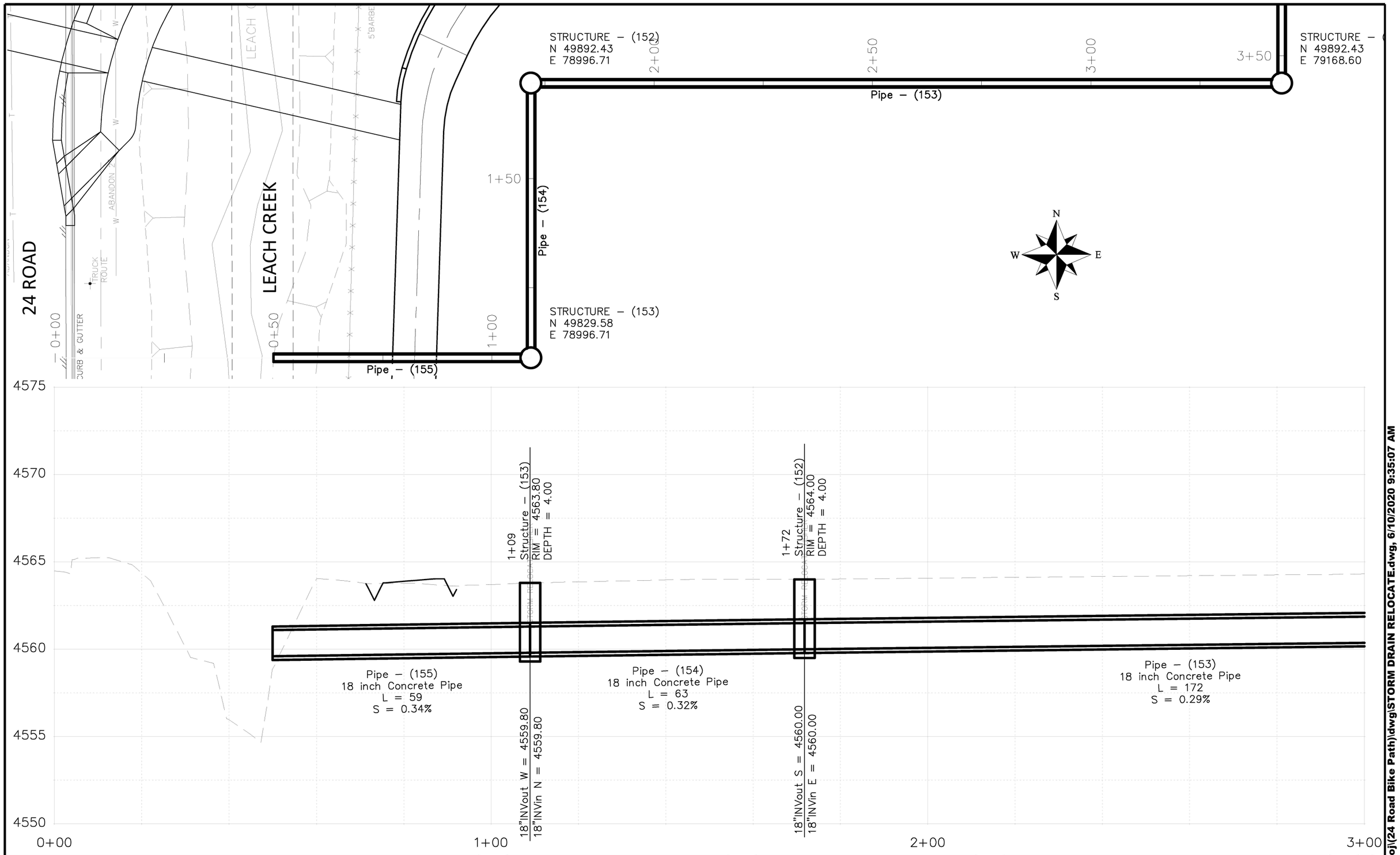

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REVISION ⚠ REV 4	– DATE

DRAWN BY	JCS	DATE 2020
DESIGNED BY	JCS	DATE 2020
CHECKED BY	ALC	DATE 2020
APPROVED BY	TCP	DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20
VERTICAL 2.5 0 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
STORM DRAIN RELOCATE – 1
June 10, 2020

6

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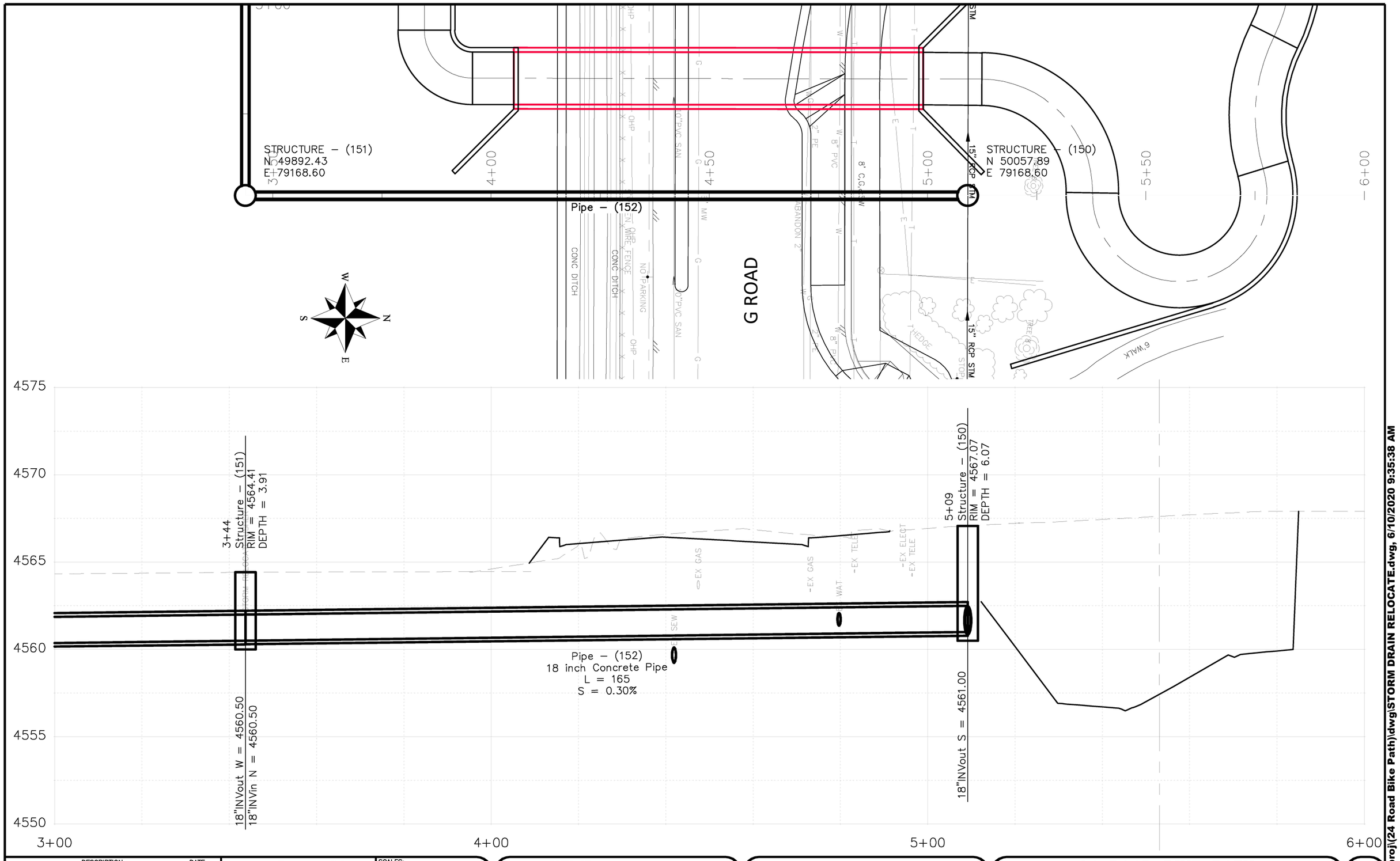

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REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS	DATE 2020	SCALES: PLAN & PROFILE HORIZONTAL 0 10 20 VERTICAL 0 2.5 5
DESIGNED BY JCS	DATE 2020	
CHECKED BY ALC	DATE 2020	
APPROVED BY TCP	DATE 2020	

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
STORM DRAIN RELOCATE – 2
June 10, 2020

7

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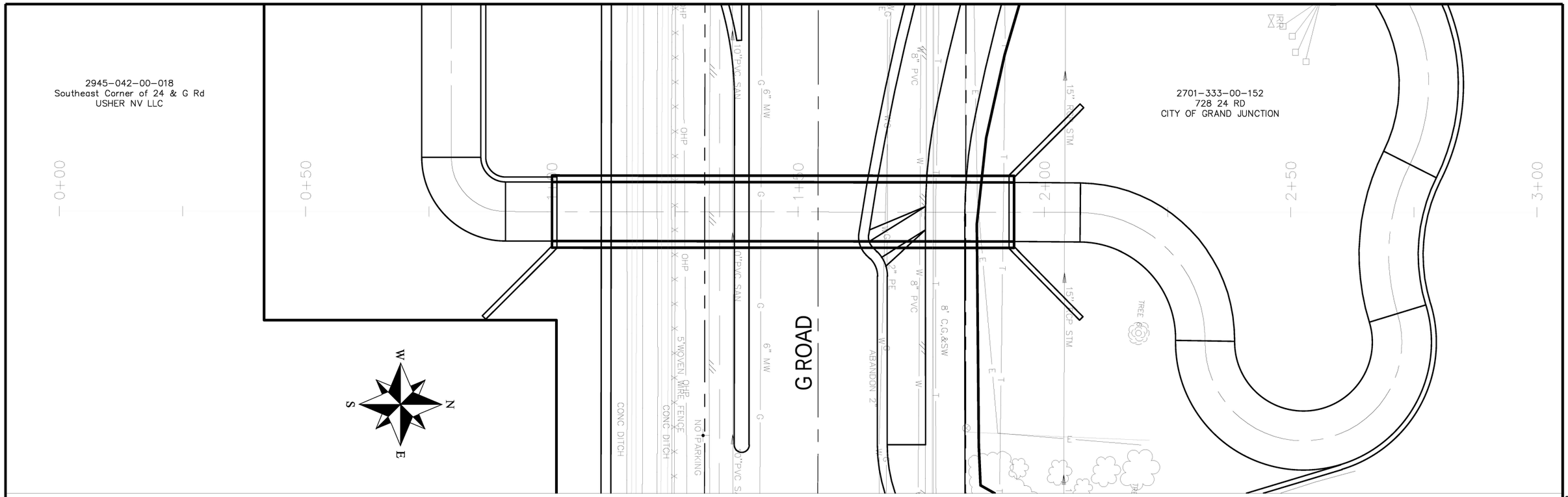

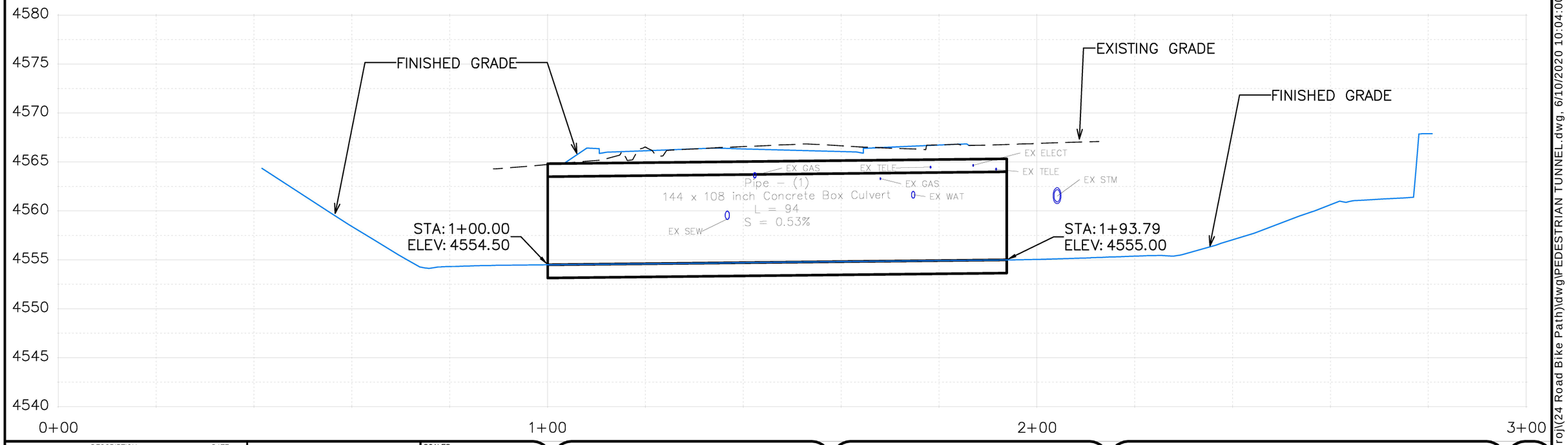

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REVISION ⚠ REV 4	– DATE

DRAWN BY	JCS	DATE 2020
DESIGNED BY	JCS	DATE 2020
CHECKED BY	ALC	DATE 2020
APPROVED BY	TCP	DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20
VERTICAL 0 5 10

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
PEDESTRIAN TUNNEL – 1
June 10, 2020

8

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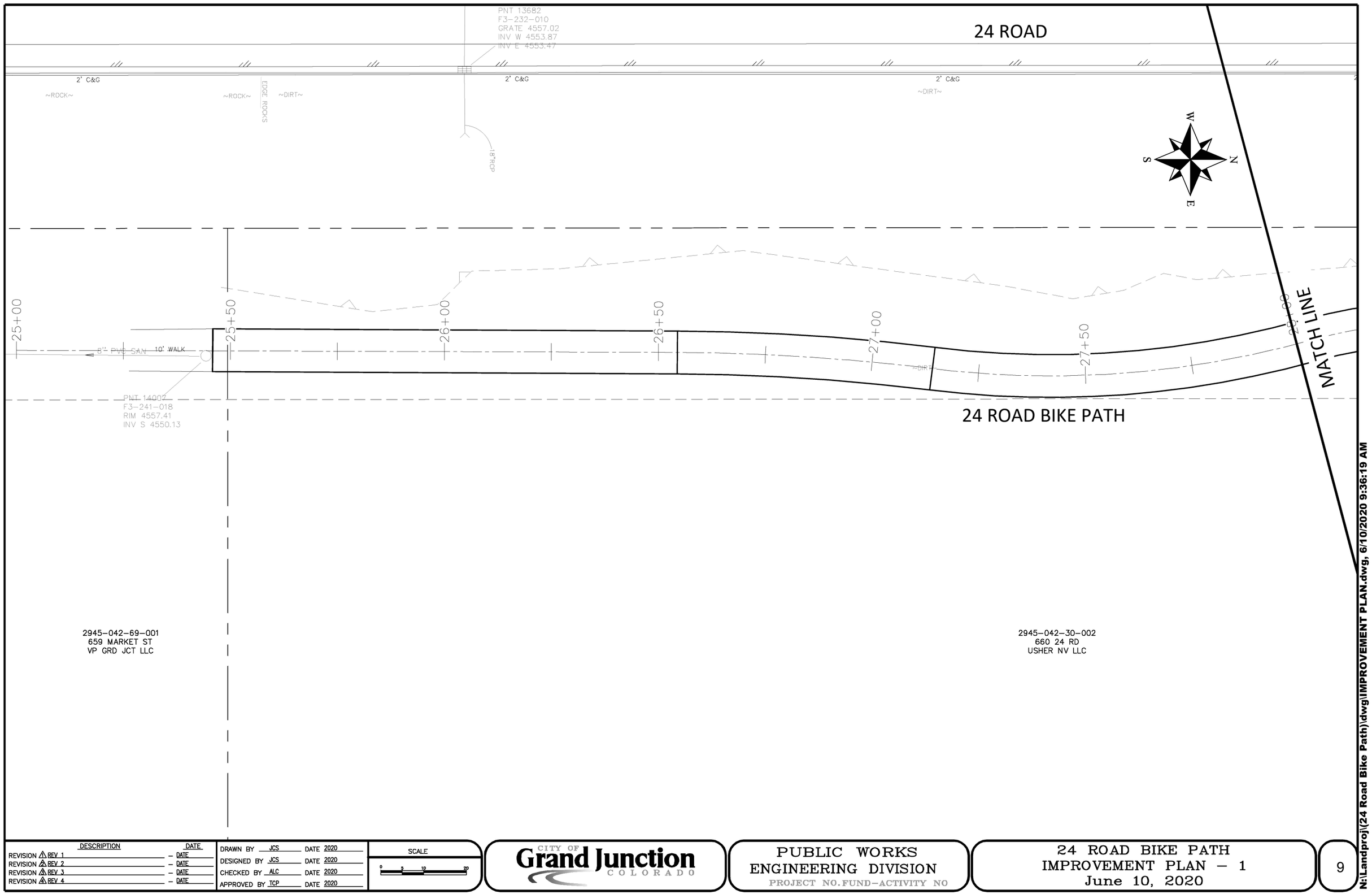

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REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
IMPROVEMENT PLAN – 1
June 10, 2020

9

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24 ROAD

2' C&G

2' C&G

2' C&G

~DIRT~

CP /ROD DWY FLD/
N 48525.4800
E 78896.86
EL 4559.07

INV 4554.98

8" PVC SAN

8" PVC SAN

8" PVC SAN

12" PVC CULVERT

INV 4555.89

4" BARBED WIRE

MATCH LINE

MATCH LINE

28+00

28+50

29+00

29+50

30+00

30+50

31+00

PNT 13953
F4-241-001
RIM 4559.66
INV S 4549.71
INV W 4549.71

~DIRT~

24 ROAD BIKE PATH

15"PVC

INV 4556.99

4" BARBED WIRE

W
S
N
E

2945-042-30-002
660 24 RD
USHER NV LLC

2945-042-00-018
Southeast Corner of 24 & G Rd
USHER NV LLC

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

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DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND-ACTIVITY NO

24 ROAD BIKE PATH
IMPROVEMENT PLAN – 2
June 10, 2020

10

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24 ROAD

PNT 13748
F4-232-010
GRATE 4559.27
INV W 4555.97
INV E 4555.92

18"RCP

2' C&G | 2' C&G | 2' C&G

~DIRT~ | ~DIRT~

4' BARBED WIRE | 4' BARBED WIRE | 4' BARBED WIRE

CONCRETE

31+50 | 32+00 | 32+50 | 33+00 | 33+50

MATCH LINE | MATCH LINE

24 ROAD BIKE PATH

2945-042-00-018
Southeast Corner of 24 & G Rd
USHER NV LLC

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

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE 0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND-ACTIVITY NO

24 ROAD BIKE PATH
IMPROVEMENT PLAN – 3
June 10, 2020

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24 ROAD

2' C&G

2' C&G

2' C&G

~DIRT~

CP /ROD DWY GG/
N 49255.3490
E 78896.01
EL 4561.90

4' BARBED WIRE

4' BARBED WIRE

4' BARBED WIRE

MATCH LINE

34+00

34+50

35+00

35+50

24 ROAD BIKE PATH

36+00

36+50

37+00

MATCH LINE

~DIRT~

2945-042-00-018
Southeast Corner of 24 & G Rd
USHER NV LLC

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 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
IMPROVEMENT PLAN – 4
June 10, 2020

12

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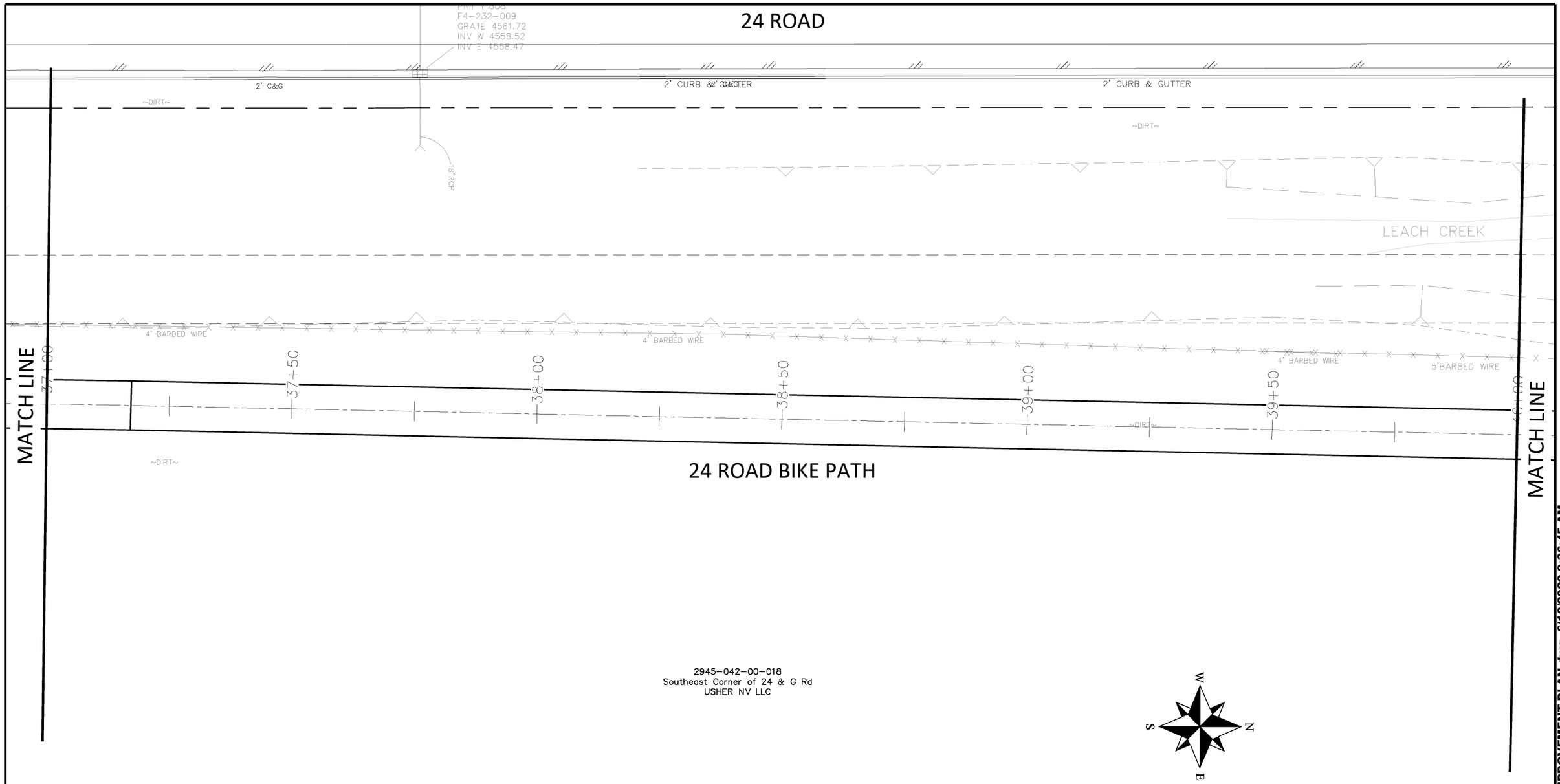

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REVISION 4 REV 4	DATE

DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND-ACTIVITY NO

24 ROAD BIKE PATH
IMPROVEMENT PLAN – 5
June 10, 2020

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24 ROAD

2' CURB & GUTTER

2' CURB & GUTTER

2' CURB & GUTTER

12" HDPE STM

12" HDPE STM

HOSPITAL
LEFT SIGN

TRUCK
ROUTE

~DIRT~

ABANDON 24

ABANDON 24

INV 4554.28

INV 4554.32

LEACH CREEK

LEACH CREEK

LEACH CREEK

5'BARBED WIRE

5'BARBED WIRE

5'BARBED WIRE

MATCH LINE

40+00

40+50

41+00

41+50

42+00

42+50

24 ROAD BIKE PATH

~DIRT~

MATCH LINE

2945-042-00-018
Southeast Corner of 24 & G Rd
USHER NV LLC

W
S
N
E

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

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APPROVED BY TCP DATE 2020

SCALE
0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
IMPROVEMENT PLAN – 6
June 10, 2020

14

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REVISION 3 REV 3	DATE
REVISION 4 REV 4	DATE

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CHECKED BY	ALC	DATE	2020
APPROVED BY	TCP	DATE	2020

SCALE

0 5 10 20

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND-ACTIVITY NO

24 ROAD BIKE PATH
IMPROVEMENT PLAN – 7
June 10, 2020

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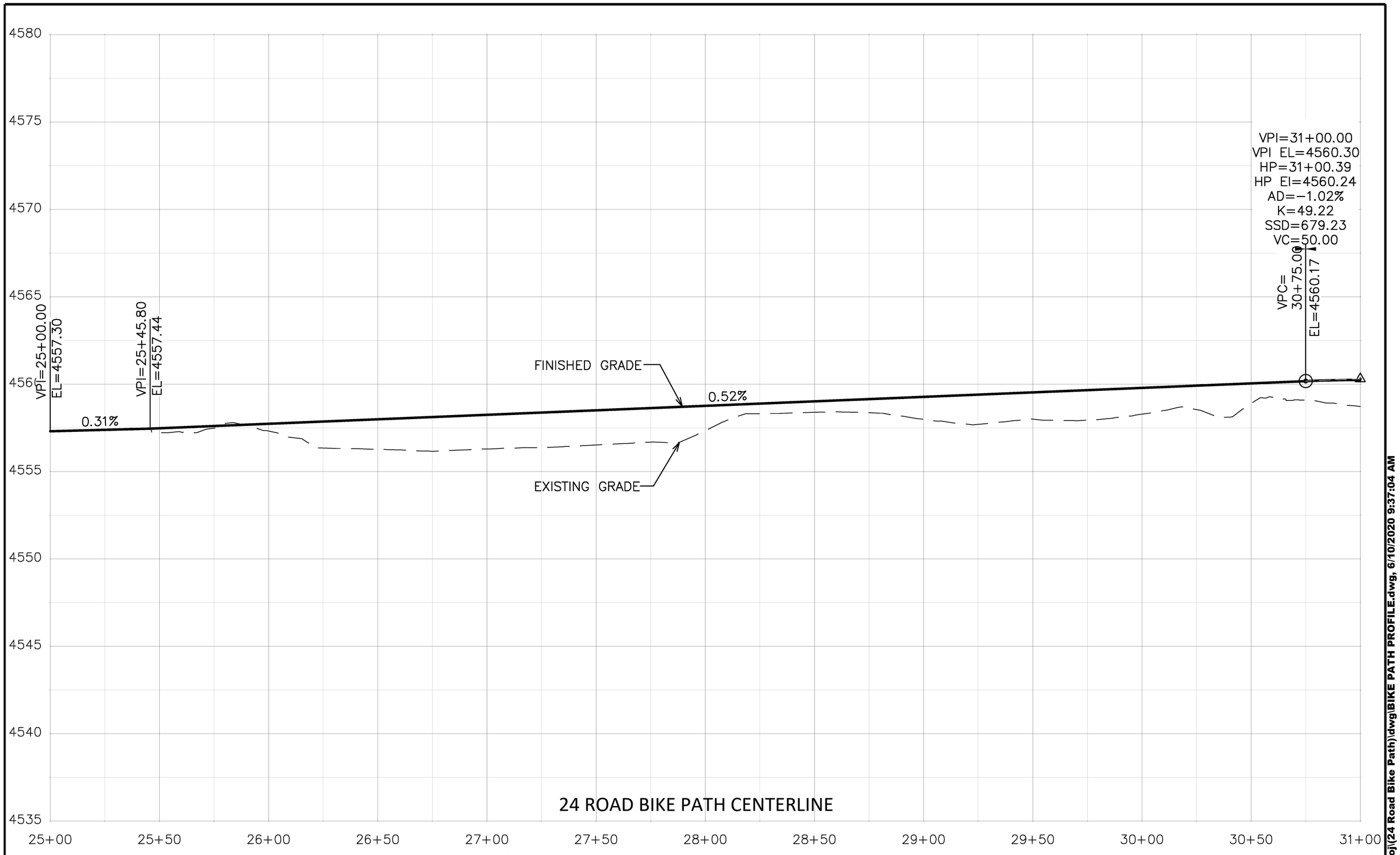

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REVISION ⚠ REV 4	– DATE

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DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
BIKE PATH PROFILE – 1
June 10, 2020

16

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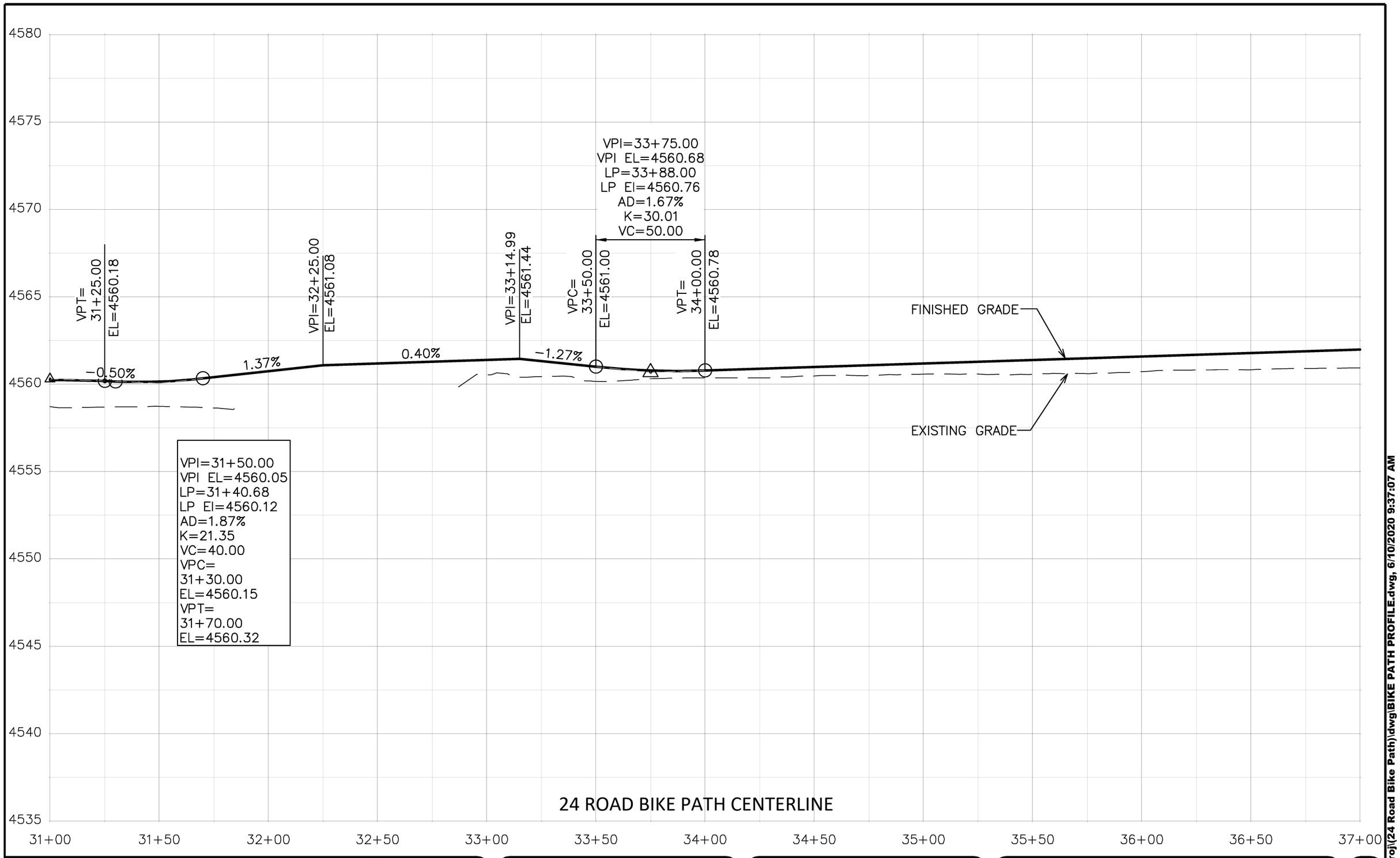

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REVISION ⚠ REV 4	– DATE

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APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
BIKE PATH PROFILE – 2
June 10, 2020

17

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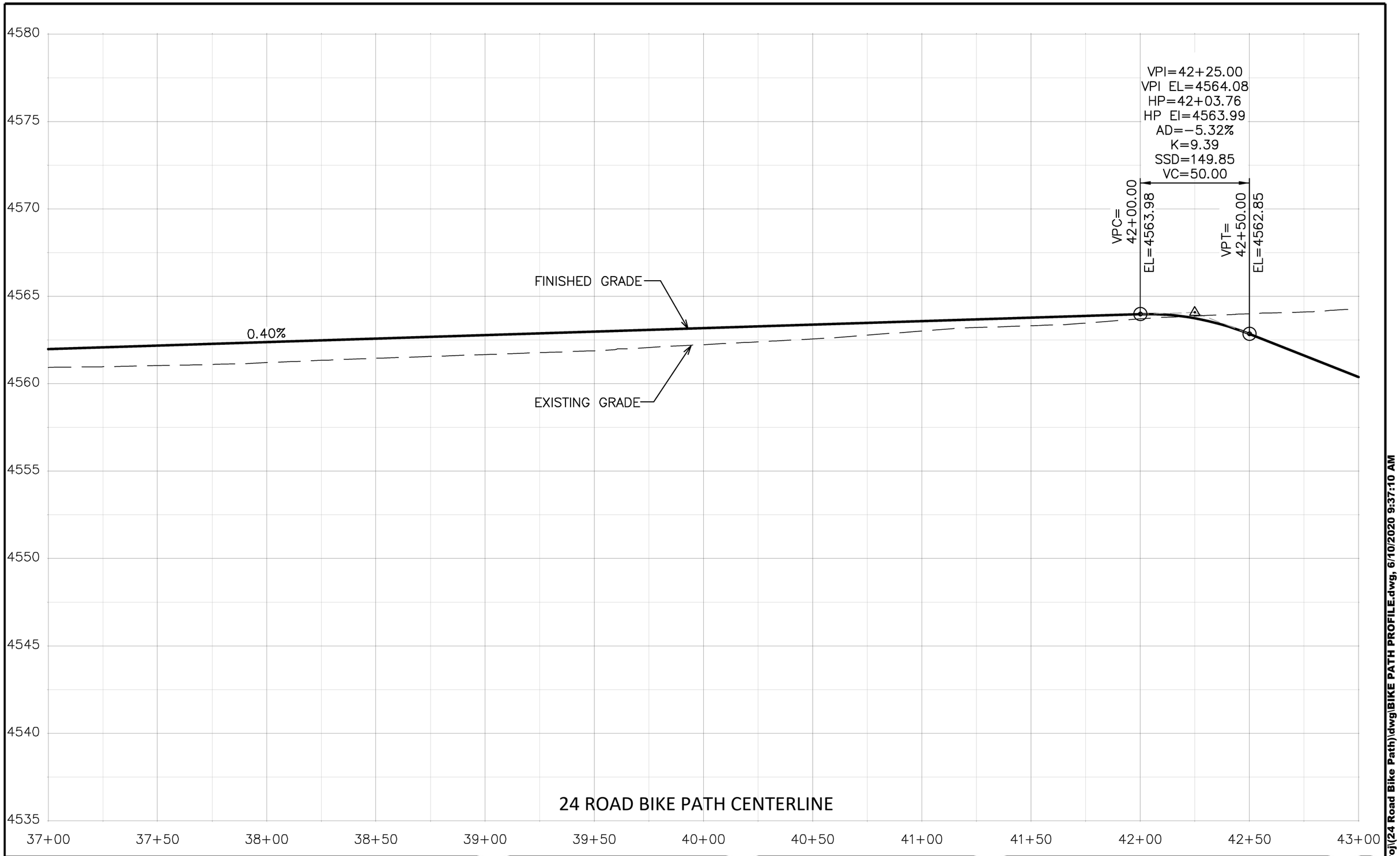

DESCRIPTION	DATE
REVISION ⚠ REV 1	– DATE
REVISION ⚠ REV 2	– DATE
REVISION ⚠ REV 3	– DATE
REVISION ⚠ REV 4	– DATE

DRAWN BY JCS DATE 2020
DESIGNED BY JCS DATE 2020
CHECKED BY ALC DATE 2020
APPROVED BY TCP DATE 2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
BIKE PATH PROFILE – 3
June 10, 2020

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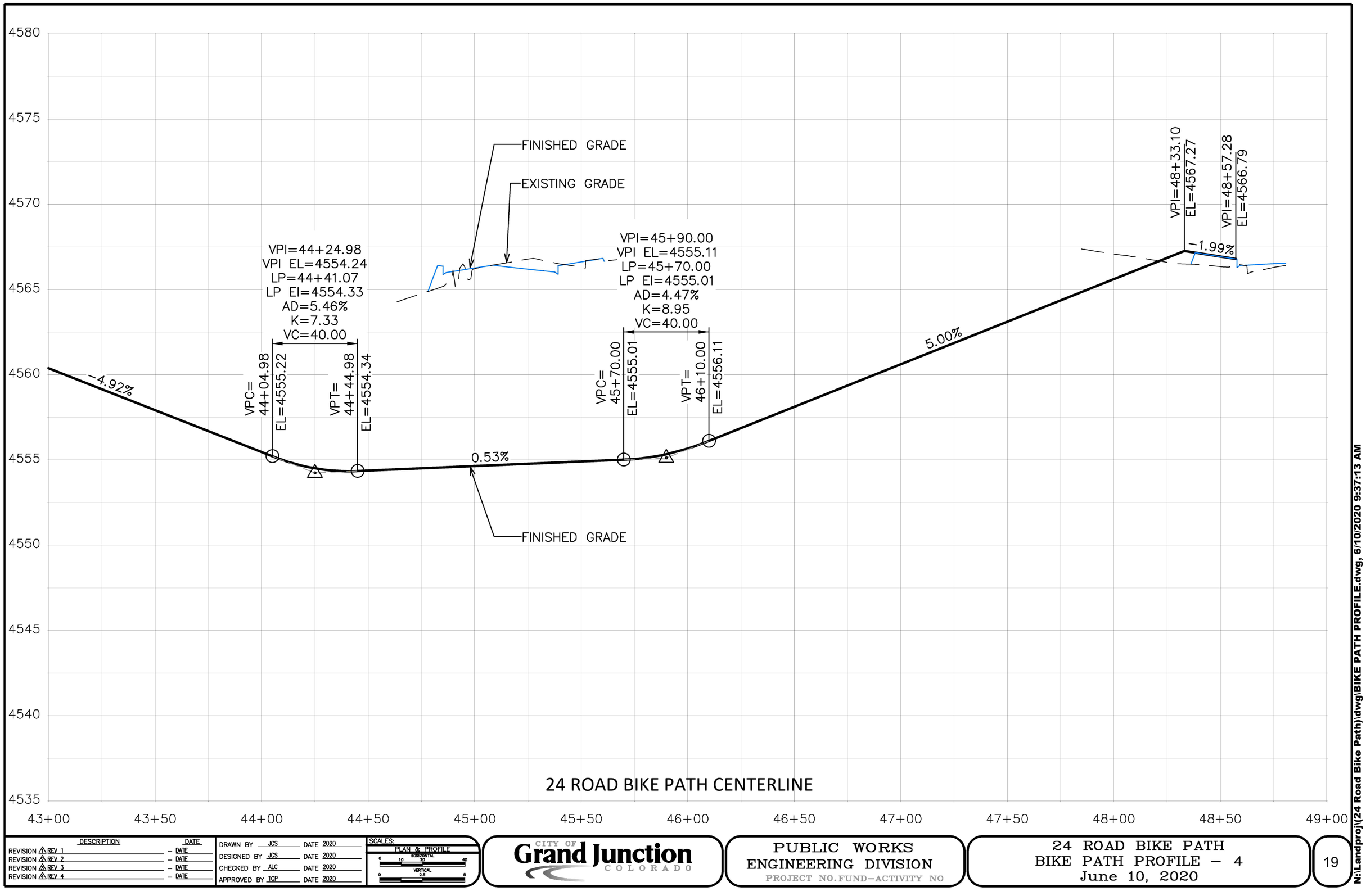

DESCRIPTION	DATE
REVISION 1 REV 1	– DATE
REVISION 2 REV 2	– DATE
REVISION 3 REV 3	– DATE
REVISION 4 REV 4	– DATE

DRAWN BY JCS DATE 2020
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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 2.5 5

CITY OF Grand Junction COLORADO

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24 ROAD BIKE PATH
BIKE PATH PROFILE – 4
June 10, 2020

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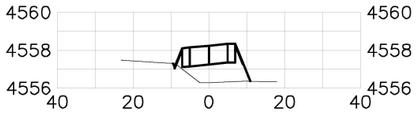

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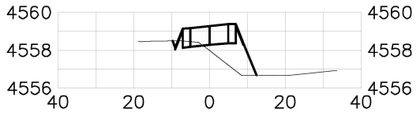

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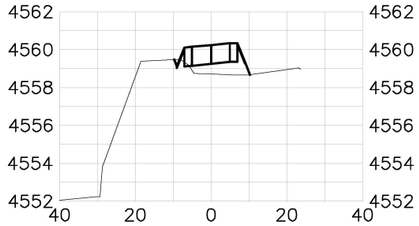

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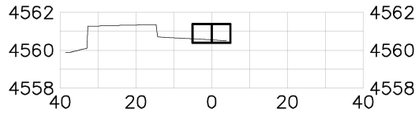

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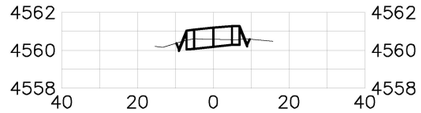

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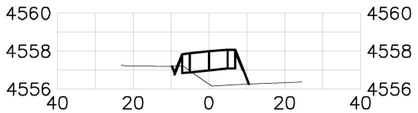

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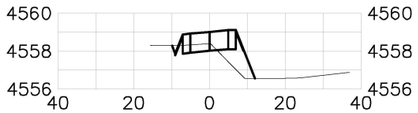

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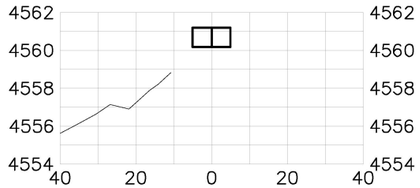

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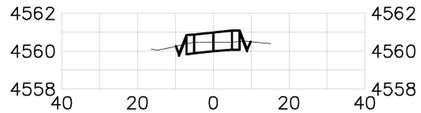

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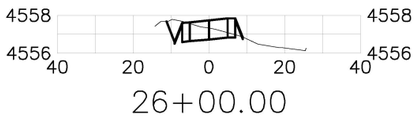

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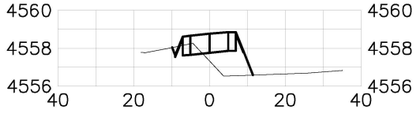

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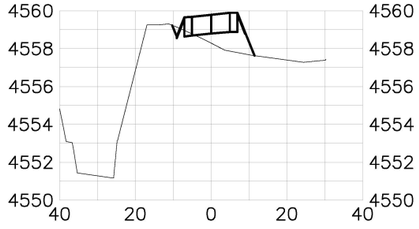

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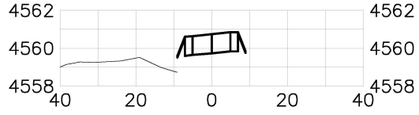

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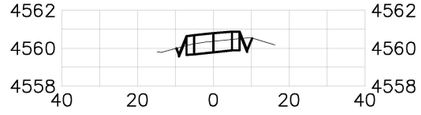

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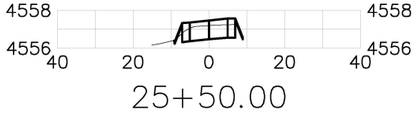

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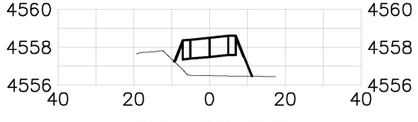

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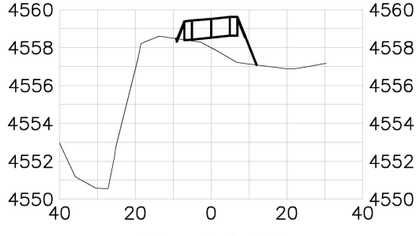

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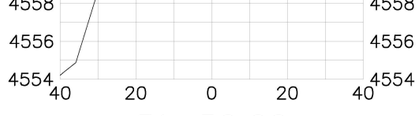

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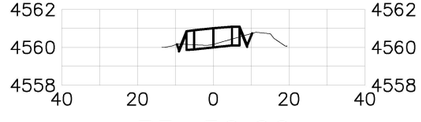

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SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
ENGINEERING DIVISION
PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
BIKE PATH CROSS SECTIONS – 1
June 10, 2020

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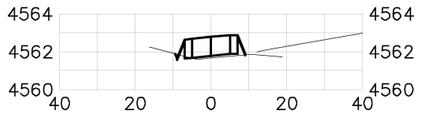

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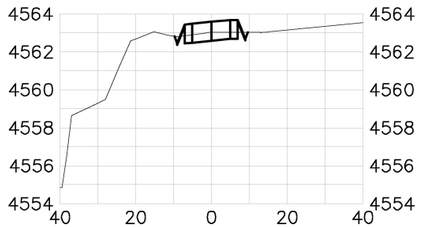

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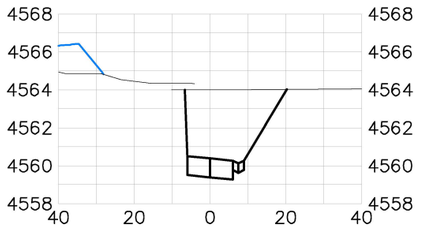

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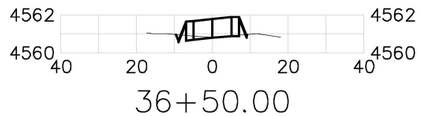

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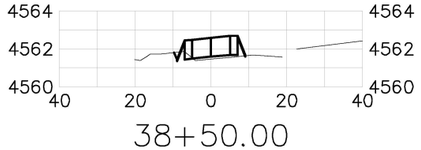

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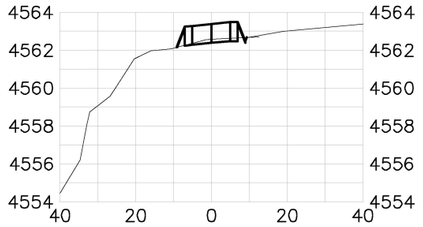

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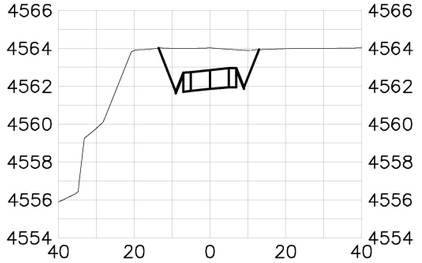

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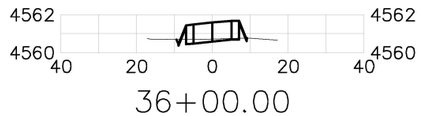

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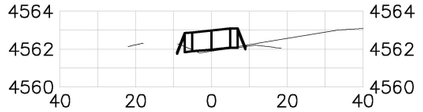

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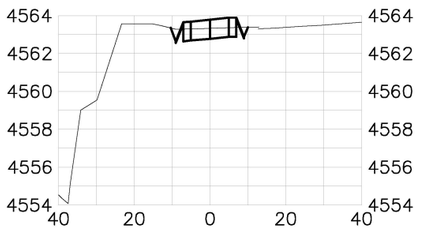

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DESCRIPTION	DATE
REVISION ⚠ REV. 1	– DATE
REVISION ⚠ REV. 2	– DATE
REVISION ⚠ REV. 3	– DATE
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DRAWN BY	JCS	DATE	2020
DESIGNED BY	JCS	DATE	2020
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APPROVED BY	TCP	DATE	2020

SCALES:
PLAN & PROFILE
HORIZONTAL 0 10 20 40
VERTICAL 0 4 8

CITY OF Grand Junction COLORADO

PUBLIC WORKS
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PROJECT NO. FUND–ACTIVITY NO

24 ROAD BIKE PATH
BIKE PATH CROSS SECTIONS – 2
June 10, 2020

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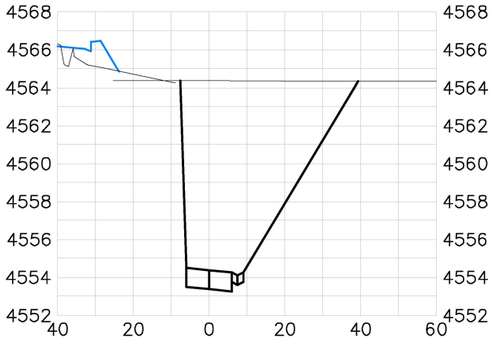

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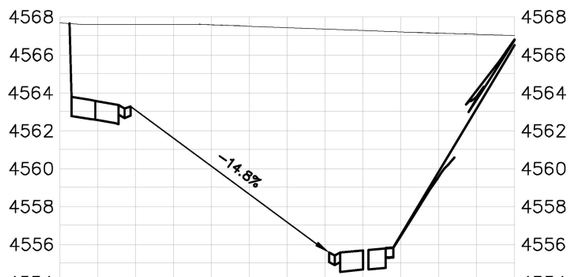

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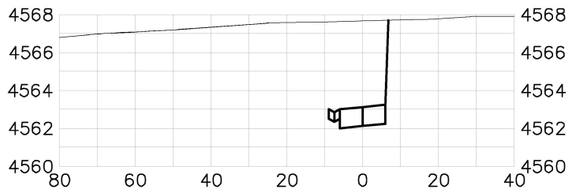

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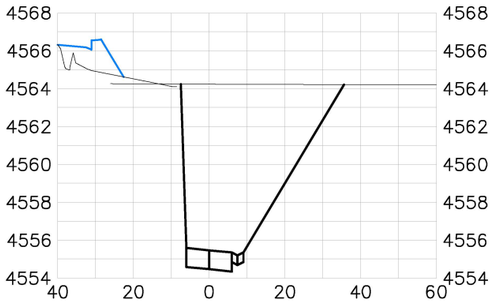

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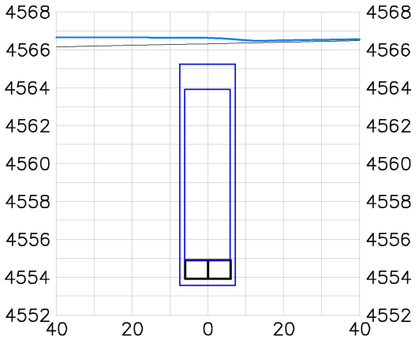

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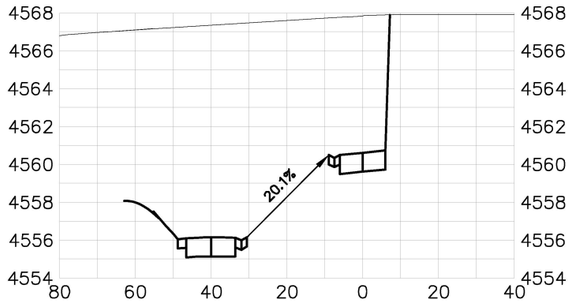

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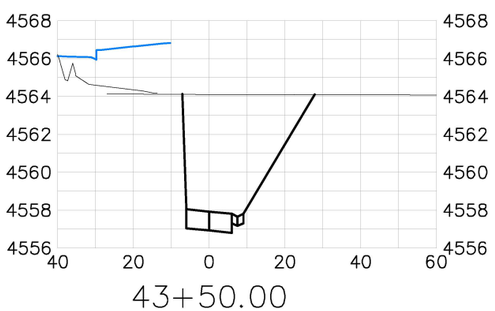

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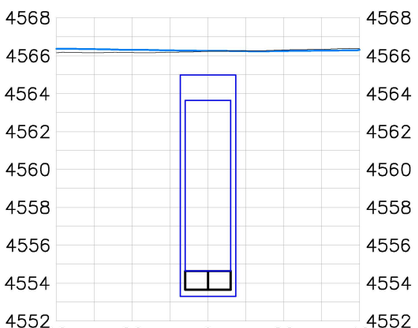

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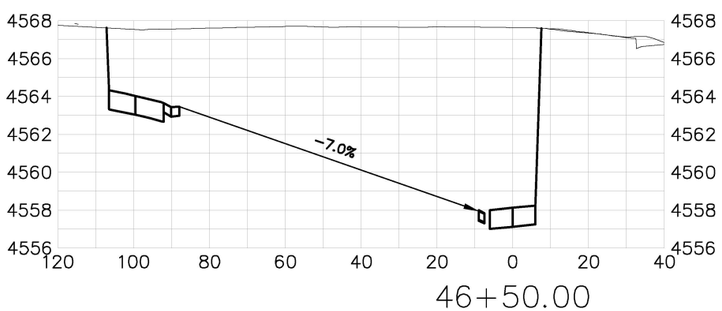

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CITY OF Grand Junction COLORADO

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24 ROAD BIKE PATH
BIKE PATH CROSS SECTIONS – 3
June 10, 2020

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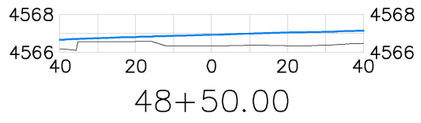

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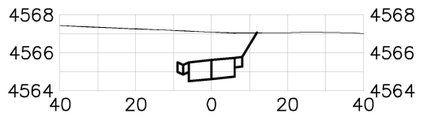

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CITY OF Grand Junction COLORADO

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24 ROAD BIKE PATH
BIKE PATH CROSS SECTIONS – 4
June 10, 2020

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SUMMARY OF APPROXIMATE QUANTITIES

ITEM	DESCRIPTION	QUAN.	UNIT	
201	CLEARING AND GRUBBING	1	LUMP SUM	
202	REMOVAL OF PORTIONS OF STRUCTURE	1	LUMP SUM	$4,000
202	REMOVAL OF GROUND SIGN	0 ~~1~~	EACH	$0
206	STRUCTURE EXCAVATION	213	CU. YDS.	$2382
207	STRUCTURE BACKFILL (SPECIAL)	268	CU. YDS.	$4288
207	TOP SOIL (AS MEASURED IN THE FIELD)	0 ~~1~~	CU. YDS.	$0
208	SILT FENCE	500	LIN. FT.	
208	EROSION BALES	100	EACH	
216	SOIL RETENTION BLANKET	114.56 ~~20~~	SQ. YDS.	$973.76
403	HOT BITUMINOUS PAVEMENT (GRADING C) (2" THICK)	107.06 ~~12~~	SQ. YDS. ~~TON~~	$856.48
502	DRIVING TIPS	22	EACH	$1320
502	STEEL PILING (HP8x36)	1182.5 ~~880~~	LIN. FT.	$21285
509	STRUCTURAL STEEL	15570	LBS.	$20721
509	FIELD CLEANING AND PAINTING STEEL	1	LS	$552
515	WATERPROOFING (MEMBRANE) 107.06	~~105~~	SQ. YDS.	$856.48
601	CONCRETE CLASS D (DECK)	1 LS ~~55~~	~~CU. YDS.~~	$14000
602	REINFORCING STEEL (EPOXY COATED)	7635	LBS.	$4362.75
606	BRIDGE RAIL (SPECIAL)	797 ~~90~~	LIN. FT.	$11955
608	CONCRETE SIDEWALK (SPECIAL)	1345 ~~898~~	SQ. FT.	$9415
609	CURB AND GUTTER (SPECIAL)	0 ~~78~~	LIN. FT.	$0
613	ELECTRICAL CONDUIT (2 INCH)	0 ~~116~~	LIN. FT.	$0
613	ELECTRICAL CONDUIT (4 INCH)	0 ~~150~~	LIN. FT.	$0
613	ELECTRICAL CONDUIT (6 INCH)	0 ~~146~~	LIN. FT.	$0
F/A	FORCE ACCOUNT	1	LUMP SUM	$1163.97
626	MOBILIZATION	1	LUMP SUM	$7200
630	CONSTRUCTION SURVEYING	1	LUMP SUM	$3000
630	TRAFFIC CONTROL	1	LUMP SUM	$2000

TOTAL COST = $113,800.86

(A) 207 PREPARE SEEDBED
212 SEED WITH NATIVE SEED MIX
216 SOIL RETENTION BLANKET IN IN DISTURBED AREAS $1800
(B) 608 CONCRETE SIDEWALK (SPECIAL)
(C) 609 CURB AND GUTTER (SPECIAL)
(D) 202 REMOVAL OF GROUND SIGN

MCSM
STA. 54+60.63 (24 ROAD)
NE CORN SECT. 5
T1S,R1W,UM
N50008.08
E78898.11
ELEV. 4566.43

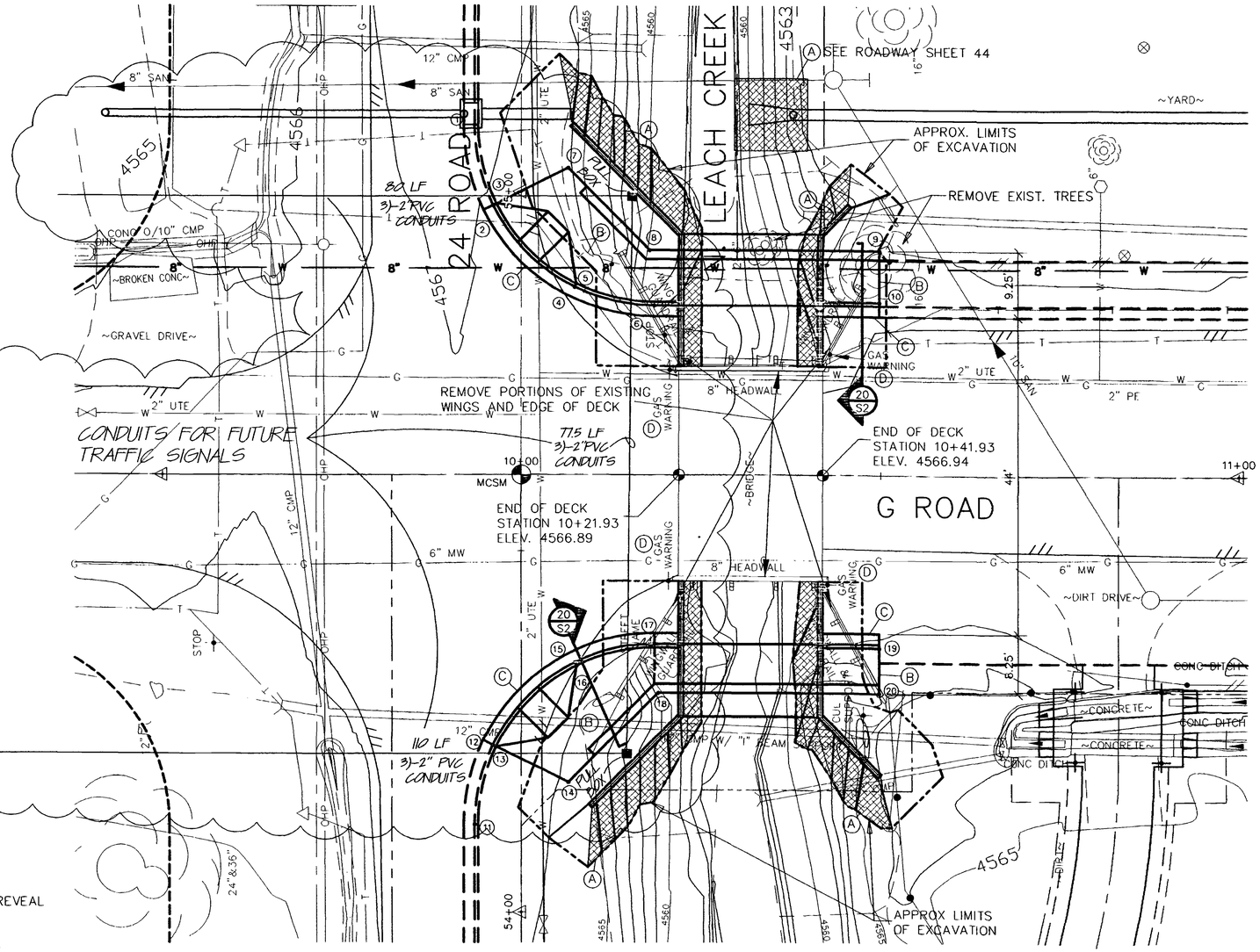
AS CONSTRUCTED
NO REVISIONS | REVISED | VOID

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	STM-MBSS-010	50	54

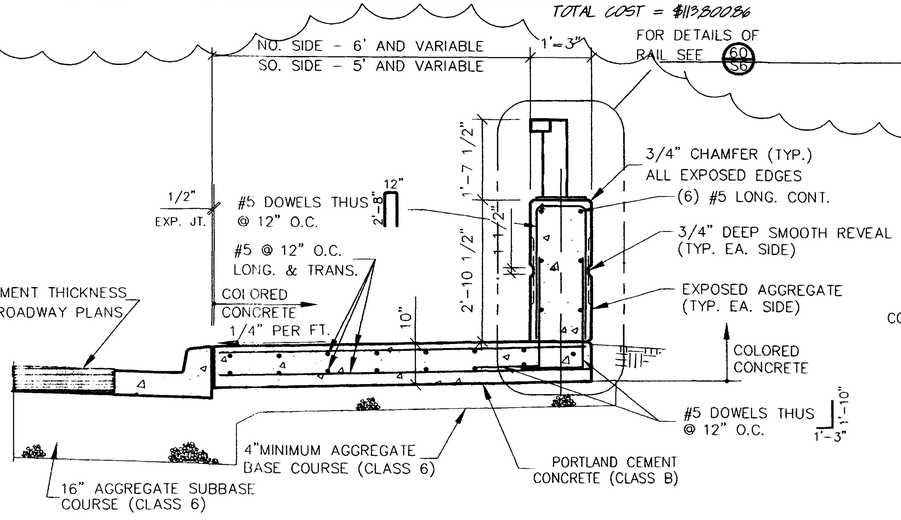
REVISIONS

PROJECT CONTROL COORDINATES

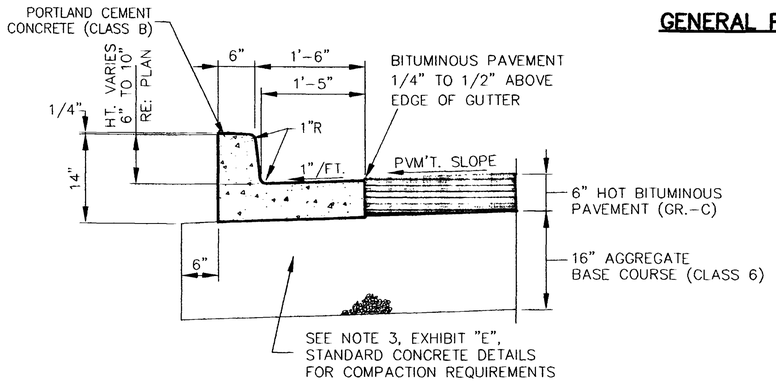
DESCRIPTION	24 RD. STA.	NORTHING	EASTING	ELEVATION
BK. WEST ABUTMENT	STA. 10+21.93	50008.065	78920.040	4566.89
BK. EAST ABUTMENT	STA. 10+41.93	50008.051	78940.040	4566.94



GENERAL PLAN



SECTION (20 / S2) 3/4"=1'-0"



CURB & GUTTER

ASBUILT

PNT	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	ELEV.
1	9+93.52	-48.26	FLOWLINE	50056.588	78891.651	4566.21
2	9+96.11	-37.45	FLOWLINE	50045.527	78894.221	4566.27
3	9+96.53	-37.67	TBC	50045.748	78894.669	4566.79
4	10+07.45	-26.08	FLOWLINE	50034.154	78905.576	4566.36
5	10+07.71	-26.53	TBC	50034.602	78905.798	4566.88
6	10+18.51	-23.50	FLOWLINE	50031.567	78916.633	4566.42
7	10+06.53	-42.60	BOW	50050.670	78904.670	4567.02
8	10+17.87	-31.25	BOW	50039.320	78916.003	4567.26
9	10+49.81	-31.25	BOW	50039.298	78947.939	4567.15
10	10+49.81	-24.0	TBC	50032.046	78947.934	4567.00
11	9+93.35	48.53	FLOWLINE	49959.551	78891.642	4565.67
12	9+96.10	37.50	FLOWLINE	49970.584	78894.200	4565.89
13	9+96.55	37.72	TBC	49970.364	78894.649	4566.41
14	10+06.61	42.64	BOW	49965.433	78904.693	4566.64
15	10+07.49	26.09	FLOWLINE	49981.989	78905.585	4566.25
16	10+07.71	26.53	TBC	49981.541	78905.806	4566.78
17	10+18.51	23.5	FLOWLINE	49984.567	78916.659	4566.51
18	10+19.09	30.25	BOW	49977.820	78917.175	4567.24
19	10+49.81	24.0	TBC	49984.046	78947.901	4567.00
20	10+49.81	30.25	BOW	49977.800	78947.896	4567.13

DESIGNED BY
DRAWN BY
SURVEY DATE

REVISIONS

NO.	DATE	REMARKS	BY
1	3-00	ASBUILT	LCS

BRIDGE WIDENING - 24 & G ROADS
CITY OF GRAND JUNCITON, COLORADO

NICHOLS ASSOCIATES, INC.
CIVIL ENGINEERING • PHOTOGRAMMETRY • SURVEYING
701 Horizon Court • Grand Junction, Colorado 81506 • Phone: 970-245-7101

DATE 11/30/99
SCALE 1"=10'
PROJECT NUMBER 3480B
SHEET NUMBER 50 OF 54

04119854.tif

FEDERAL ROAD DESIGN NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
M8	COLORADO	STM-M555-010	51	54

AS CONSTRUCTED

NO REVISIONS | REVISED | VOID

REVISIONS			
NO.	DATE	REMARKS	BY
1	3-00	ASBUILT	JCS

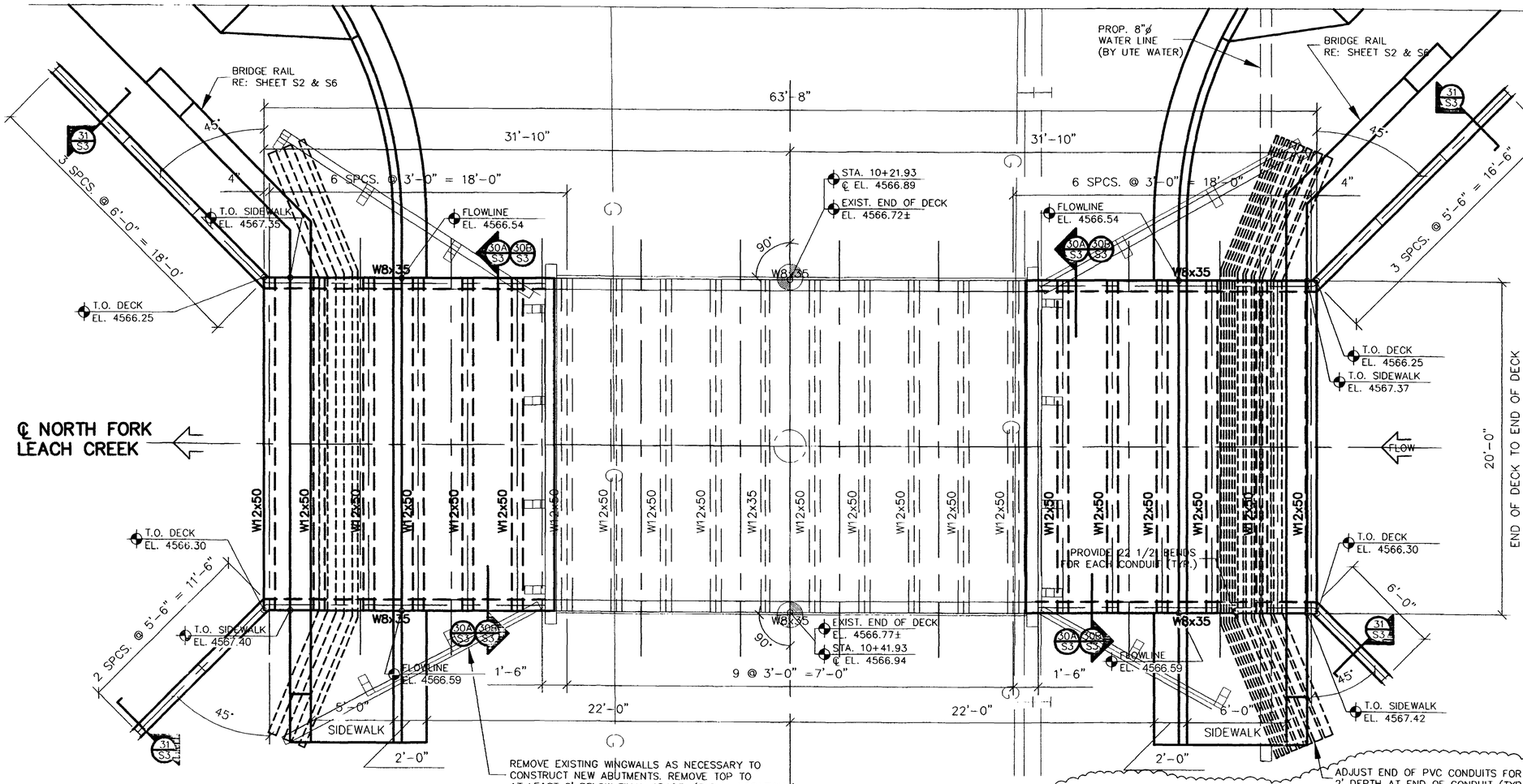
DESIGNED BY

DRAWN BY

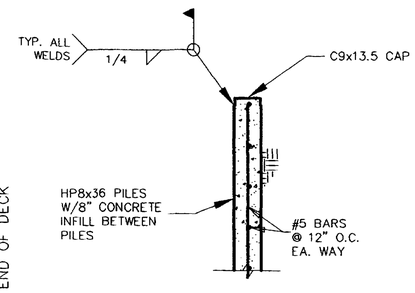
SURVEY DATE

BRIDGE WIDENING — 24 & G ROADS
CITY OF GRAND JUNCTION, COLORADO

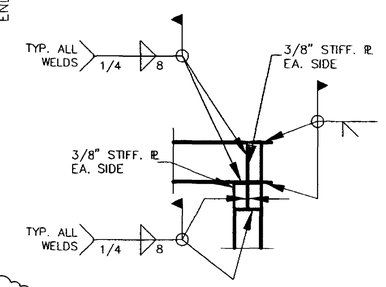
CIVIL ENGINEERING • PHOTOGRAMMETRY • SURVEYING
751 Horizon Court • Grand Junction, Colorado 81506 • Phone: 970-245-7101
NICHOLS ASSOCIATES, INC.



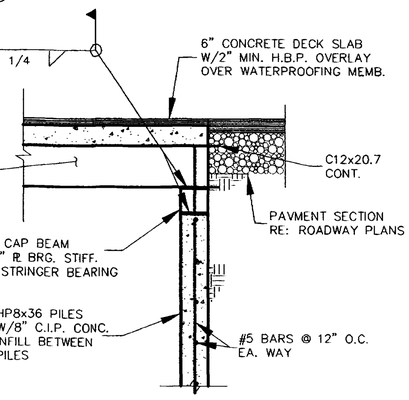
PLAN — DECK



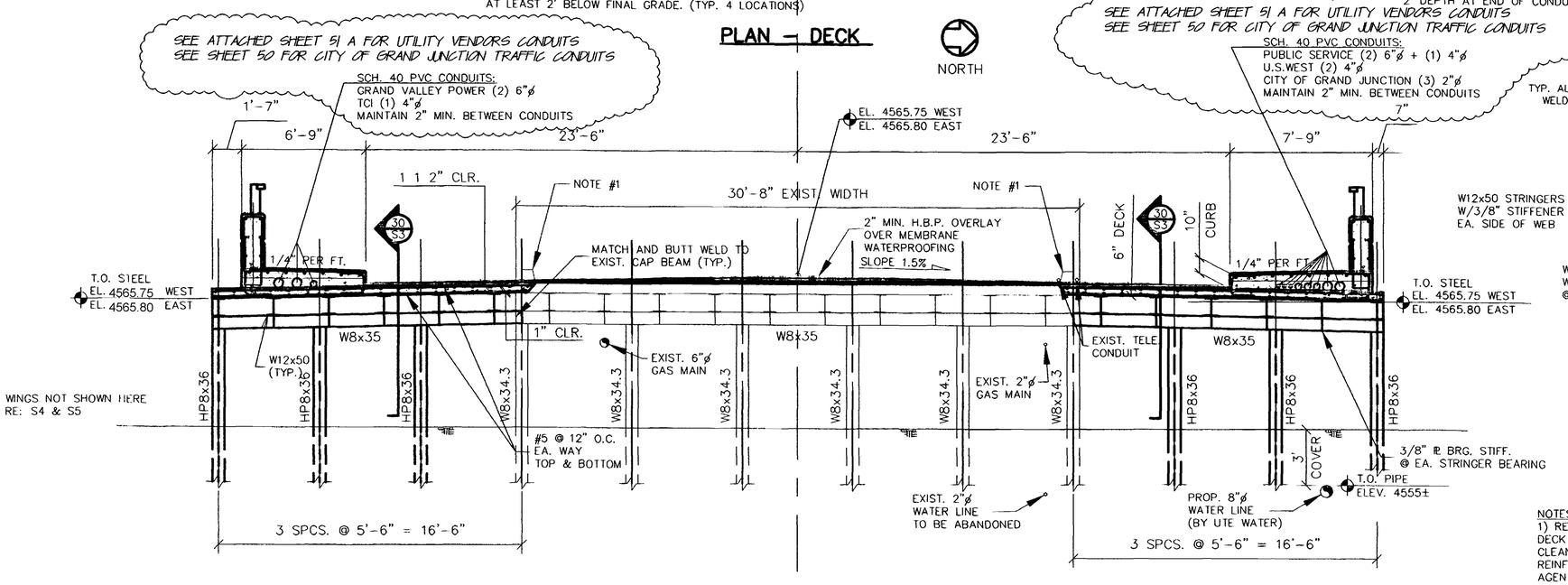
SECTION 31/S3 1/2"=1'-0"



SECTION 30A/S3 1/2"=1'-0"



SECTION 30B/S3 1/2"=1'-0"



SECTION — DECK

NOTES:
1) REMOVE EXISTING CONCRETE CURB AND EDGE OF DECK TO EXPOSE MIN. 12" OF EXIST. REINFORCING. CLEAN REINFORCING OF ALL CONCRETE. LAP NEW REINFORCING 12" WITH EXIST. APPLY EPOXY BONDING AGENT TO BROKEN EDGE OF EXIST. DECK PRIOR TO CASTING NEW DECK.

ASBUILT

DATE 11/19/99

SCALE 1/4"=1'-0"

PROJECT 3480B

SHEET 51 OF 54

04119855.tif

FEDERAL ROAD REGION NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	STM-M555-010	51	54

AS CONSTRUCTED			
NO REVISIONS		REVISED	VOID

REVISIONS			

DESIGNED BY

DRAWN BY

SURVEY DATE

REVISIONS			
NO.	DATE	REMARKS	BY
1	3-00	ASBUILT	JCS

110 LF
2)- 6" &
1)- 4" CONDUITS

TOTAL AMOUNT OF UTILITY TRENCH DUG - 508 LF
(INCLUDES TRENCHING FOR CITY OF GRAND JUNCTION
TRAFFIC SIGNALIZATION)

BREAKDOWN OF CONDUITS ACROSS BRIDGE
(EITHER SIDE, ON TOP OR BELOW)
6" - 61.5 LF
4" - 82 LF
2" - 102.5 LF

BREAK DOWN OF TRENCH WORK DONE EXCLUSIVELY
FOR THE CITY OF GRAND JUNCTION TRAFFIC DEPARTMENT
3) - 2" CONDUITS-
267.5 LF OF TRENCHING AND
802.5 LF OF 2" CONDUITS

99.5 LF
5)- 2" &
3)- 4" &
1)- 6" CONDUITS

205 LF
1)- 4" CONDUIT
(UNDER WALK) &
2)- 6" CONDUITS
(UNDER BRIDGE)

CONDUIT OWNERSHIP:
(SOUTH SIDE OF BRIDGE)

2)- 6" = 156 LF EA OF
GRAND VALLEY POWER CONDUIT

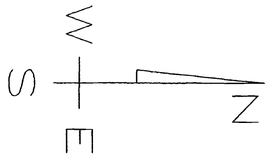
1)- 4", = 156 LF EA OF U.S. WEST CONDUIT

CONDUIT OWNERSHIP:
(NORTH SIDE OF BRIDGE)

1) 6", 1)- 4" & 2) 2" = 145 LF EA
OF PUBLIC SERVICE CO. CONDUIT

2)- 4", = 145 LF EA OF U.S. WEST CONDUIT

205 LF
2)- 4" &
3)- 2" CONDUITS
(UNDER WALK) &
2)- 2" &
1)- 4" &
1)- 6" CONDUITS
(UNDER BRIDGE)



255 LF
2)- 6" &
1)- 4" CONDUITS

25 LF
5)- 2" &
3)- 4" &
1)- 6" CONDUITS

UTILITY VENDORS CONDUIT LOCATIONS

ASBUILT

BRIDGE WIDENING - 24 & G ROADS
CITY OF GRAND JUNCTION, COLORADO

NICHOLS ASSOCIATES, INC.
CIVIL ENGINEERING • PHOTOGRAMMETRY • SURVEYING
751 Horizon Court • Grand Junction, Colorado 81506 • Phone: 970-248-7101

DATE
11/19/99

SCALE
1/4"=1'-0"

PROJECT
3480B

SHEET
51a OF 54

04119856.tif

FEDERAL ROAD REGION NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	STM-M555-010	52	54

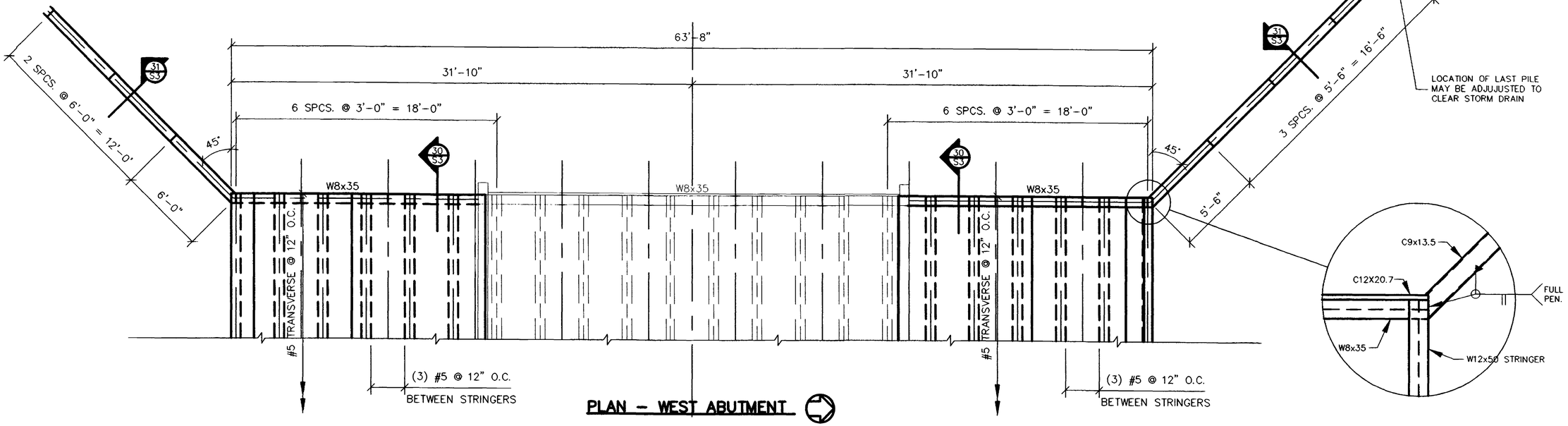
AS CONSTRUCTED

NO REVISIONS | REVISED | VOID

REVISIONS		

DESIGNED BY | DRAWN BY | SURVEY DATE

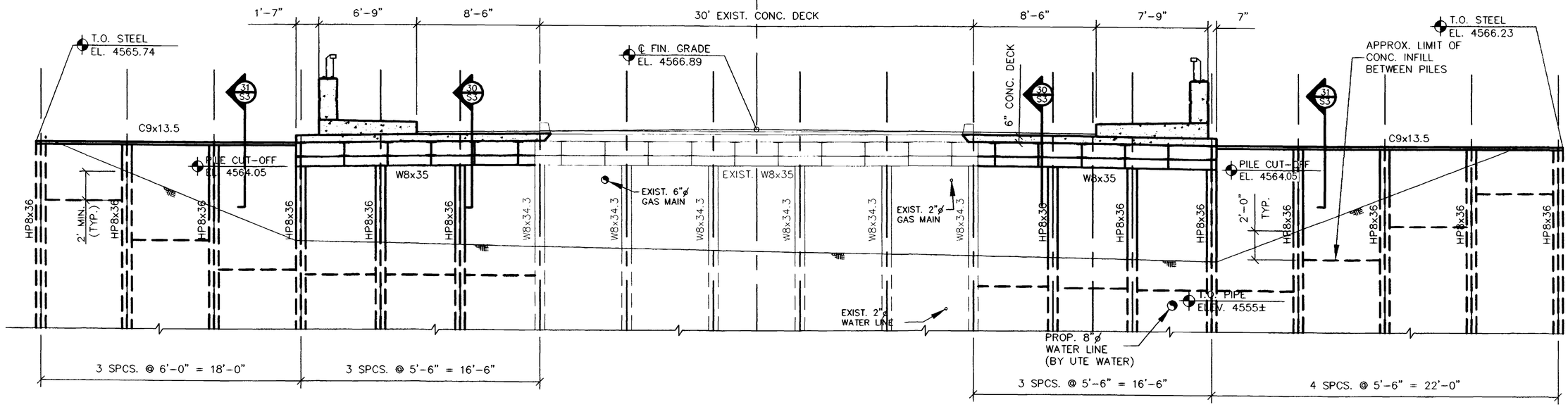
REVISIONS			
NO.	DATE	REMARKS	BY



PLAN – WEST ABUTMENT

NORTH

TYP. CORNER DETAIL



ELEVATION – WEST ABUTMENT

BRIDGE WIDENING – 24 & G ROADS
CITY OF GRAND JUNCTION, COLORADO

NICHOLS ASSOCIATES, INC.
CIVIL ENGINEERING • PHOTOGRAMMETRY • SURVEYING
761 Horizon Court • Grand Junction, Colorado 81506 • Phone: 970-245-7101

DATE 11/19/99

SCALE 1/4"=1'-0"

PROJECT 3480B

SHEET 52 OF 54

04119857.tif

FEDERAL ROAD REGION NO.	STATION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	STA-M555-010	53	54

AS CONSTRUCTED

NO REVISIONS | REVISED | VOID

REVISIONS		

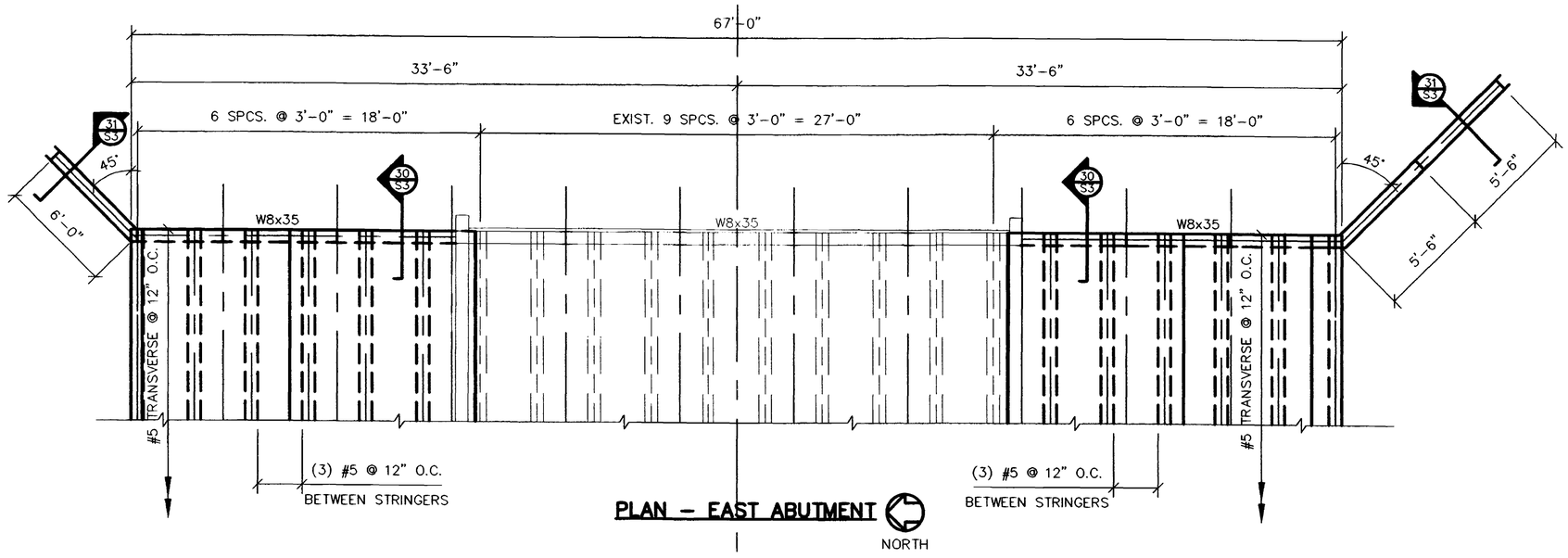
DESIGNED BY

DRAWN BY

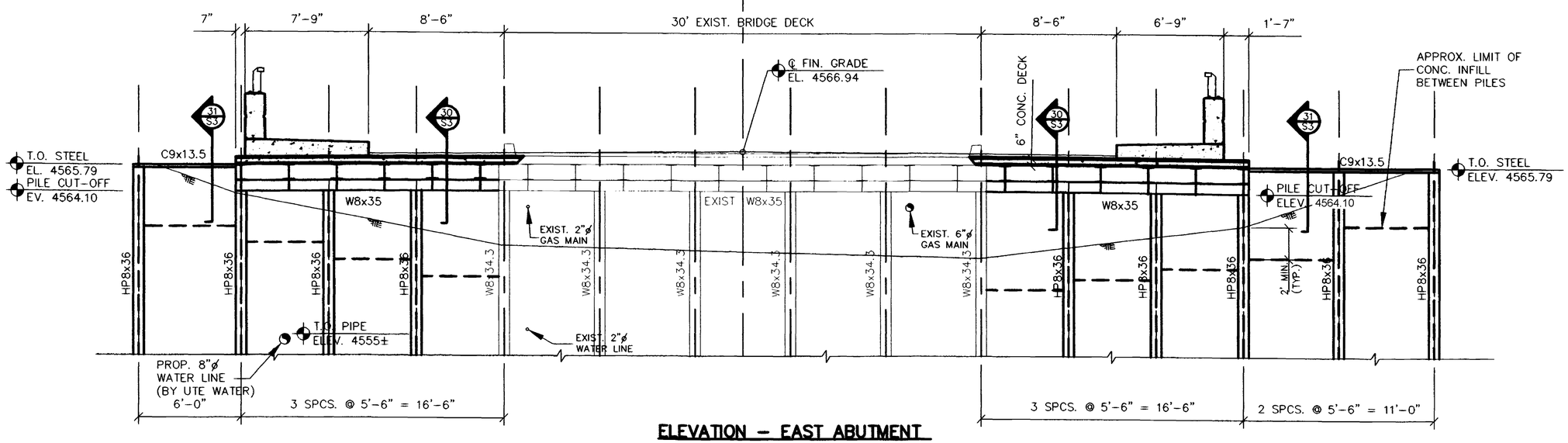
SURVEY DATE

REVISIONS

NO.	DATE	REMARKS	BY



PLAN – EAST ABUTMENT



ELEVATION – EAST ABUTMENT

BRIDGE WIDENING – 24 & G ROADS
CITY OF GRAND JUNCTION, COLORADO

CIVIL ENGINEERING • PHOTOGRAMMETRY • SURVEYING
751 Horizon Court • Grand Junction, Colorado 81506 • Phone: 970-248-7101

NICHOLS ASSOCIATES, INC.

DATE 1/19/99

SCALE 1/4"=1'-0"

PROJECT 3480B

SHEET 53 OF 54

04119858.tif

FEDERAL ROAD TRUSTEE NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
VIII	COLORADO	STM-M555-010	54	54

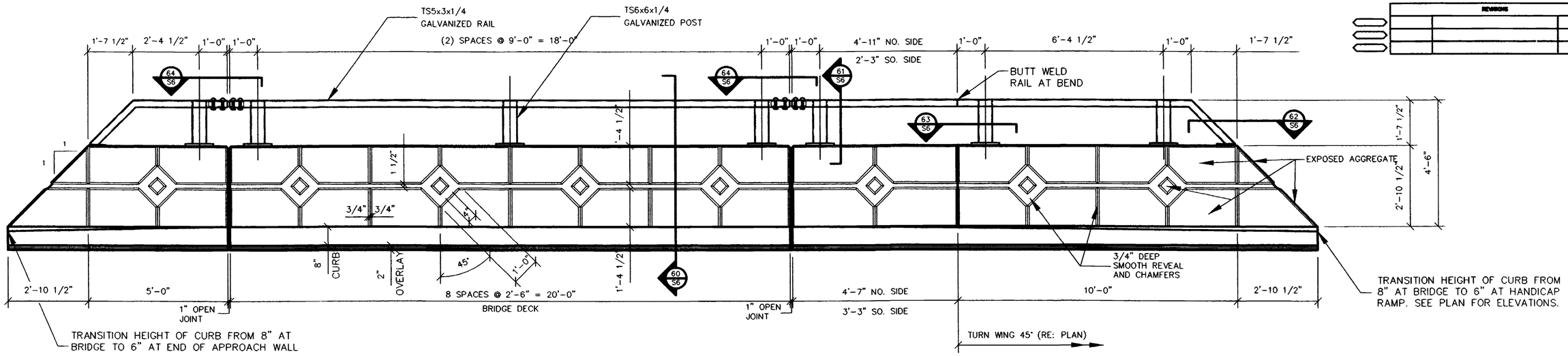
AS CONSTRUCTED

NO REVISIONS | REVISED | VOID

REVISIONS		

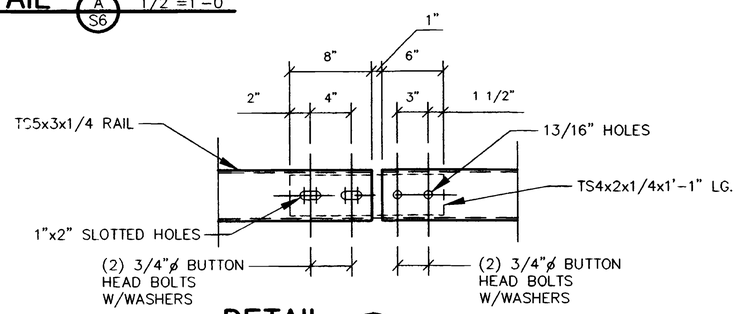
DESIGNED BY | DRAWN BY | SURVEY DATE

REVISIONS			
NO.	DATE	REMARKS	BY

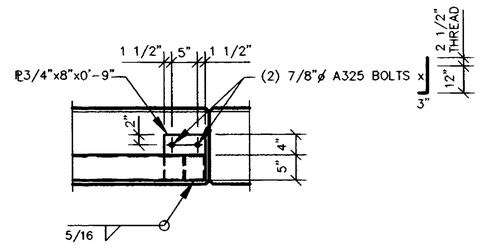


CONCRETE FOR RAIL SHALL BE CLASS "D" WITH COLOR AS INDICATED ON THIS SHEET. SIDEWALK WILL BE PAID AT THE UNIT PRICE FOR CONCRETE SIDEWALK (SPECIAL) WHICH SHALL BE OF VARYING THICKNESS BUT NOMINALLY 10 INCHES THICK. ALL BRIDGE RAIL WORK ABOVE THE SIDEWALK WILL BE CONSIDERED AND PAID FOR AS BRIDGE RAIL (SPECIAL) WHICH WILL INCLUDE ALL ITEMS INCLUDING CONCRETE, REINFORCING AND STRUCTURAL STEEL.

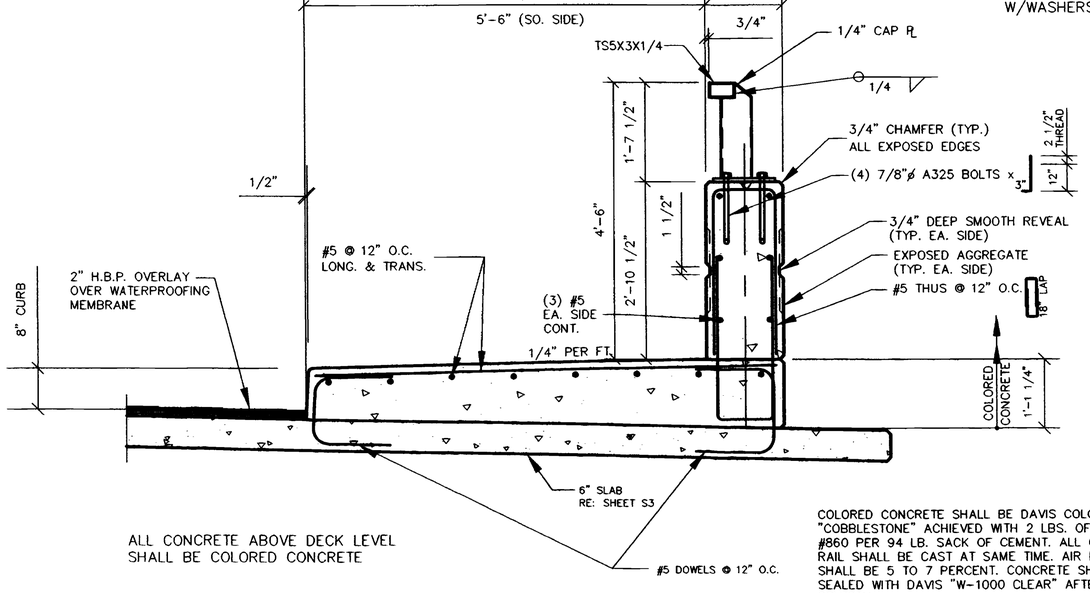
DETAIL (A S6) 1/2"=1'-0"



DETAIL (64 S6) 3/4"=1'-0"



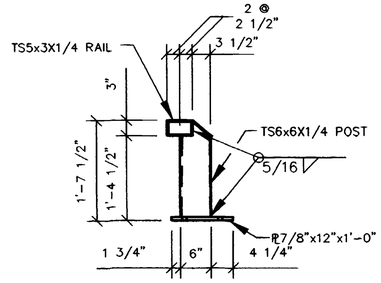
SECTION (62 S6) 3/4"=1'-0"



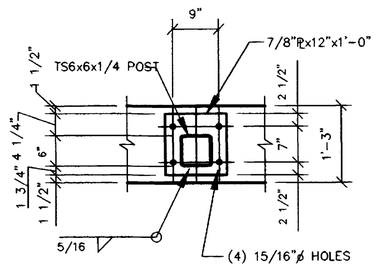
ALL CONCRETE ABOVE DECK LEVEL SHALL BE COLORED CONCRETE

COLORED CONCRETE SHALL BE DAVIS COLORS "COBBLESTONE" ACHIEVED WITH 2 LBS. OF COLOR #860 PER 94 LB. SACK OF CEMENT. ALL CONCRETE RAIL SHALL BE CAST AT SAME TIME. AIR ENTRAINMENT SHALL BE 5 TO 7 PERCENT. CONCRETE SHALL BE SEALED WITH DAVIS "W-1000 CLEAR" AFTER FORM REMOVAL.

SECTION (60 S6) 3/4"=1'-0"



SECTION (61 S6) 3/4"=1'-0"



SECTION (63 S6) 3/4"=1'-0"

1. ALL TUBES SHALL BE FABRICATED FROM ASTM A-500, GRADE B.
2. ALL OTHER MATERIAL SHALL BE ASTM A-36 EXCEPT BOLTS WHICH SHALL BE ASTM A-325 WITH SUITABLE WASHERS AND NUTS.
3. ALL MATERIALS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
4. ALL MATERIALS, INCLUDING STEEL, BOLTS, CONCRETE AND REINFORCING STEEL SHALL BE INCLUDED IN THE COST OF ITEM 606 – BRIDGE RAIL.
5. ALL CONNECTIONS SHALL BE WELDED UNLESS OTHERWISE INDICATED

BRIDGE RAIL

25.5 ROAD BRIDGE OVER GRAND VALLEY CANAL
CITY OF GRAND JUNCTION, COLORADO

NICHOLS ASSOCIATES, INC.
CIVIL ENGINEERING • PHOTOGRAMMETRY • SURVEYING
781 Horizon Court • Grand Junction, Colorado 81506 • Phone: 970-245-7101

DATE 11/19/99

SCALE 1/4"=1'-0"

PROJECT 3480B

SHEET 54 OF 54

04119859.tif

CITY OF Grand Junction COLORADO

Purchasing Division

ADDENDUM NO. 3

DATE: June 25, 2020
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Professional Engineering Services for N. Leach Creek Bridge at 24 Road & G Road RFP-4802-20-DH

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. Q. I just wanted to confirm that the roadway design including how G road ties back down to the east will be done by the City's roadway engineer. So the City will provide the profile grade in conjunction with our bridge superstructure depth and constraints.

A. Correct, the City's roadway designer will coordinate the G Road vertical profile and roadway horizontal dimensions with the Consulting Engineer for the design of the bridge.

2. Q. Usually, our roadway designer would provide cross sections along the creek if needed by our hydraulic engineer. In this case, will the City be providing this task?

A. Yes, the City can provide the cross sections along the creek if needed for the hydraulic engineer. The City would request that the Consulting Engineer provide the locations for the cross-sections.

3. Q. Are the survey, base mapping, existing plans and as-built drawings in AutoCAD format? That means the design plans can be in AutoCAD format too.

A. All of the survey and base mapping information from the City will be provided in AutoCAD format (2020), and all Consultant drawings shall be in AutoCAD format. The only existing plans or as-built drawings available are the bridge widening plans in PDF format.

4. Q. Regarding the SUE work: There are utility locate marks in the area of the bridge now. Were those surveyed in and were any potholes done to determine depth? Also, who did the utility locates?

A. Those utility locate marks were requested by the geotechnical driller, and no potholes to date have been completed to determine utility depths. The City Surveyor shot in the locate marks in order to show them in the AutoCAD drawings.

5. Q. I see the existing structure has some aesthetic design on the bridge railing. What kind of bridge rails are going to be required? Will it be a combination sidewalk/bridge/pedestrian rail and who will be doing the urban design for it.

A. A combination pedestrian/traffic railing will be required for the bridge rails where sidewalks are proposed and are within the suggested AASHTO clear zone area, otherwise a typical Type 10M railing will be used. The City Engineer will work with the Consulting Engineer to develop the details of the pedestrian railing.

6. Q. There is a two month schedule for doing the preliminary and final design. That seems very tight considering there is environmental and SUE work that needs to be done. It seems that doing the construction this winter is a critical consideration. Is this correct?

A. Although North Leach Creek is not an irrigation ditch, it does carry return flows from the local irrigation ditches, as well as, stormwater runoff. It is important to have this new structure substantially complete prior to April 1, 2021, when the irrigation water starts flowing. The City wants to be under construction with the new North Leach Creek structure by December 2020 or January 2021 at the latest. This structure is priority because of the water presence during the warmer months and the sooner this new structure is completed the sooner the City can start with the proposed roundabout construction at the 24 and G Road intersection. Please delete paragraph 3 within Task 3 – Final Design Plans and Project Specifications, within the solicitation and replace with the following:

- Advertisement for Construction should be published on or about October 17, 2020 to allow for construction to occur during the winter of 2020/2021 prior to irrigation startup April 1, 2021.

As a result, the consultant shall have final construction plans and specifications completed by October 9, 2020. This October 9th date only applies to the North Leach Creek bridge structure and doesn't apply to the proposed G Road pedestrian underpass structure and the pedestrian pathway bridge structure. The due date for final construction plans and specifications for these two structures is December 18, 2020.

As for the utility SUE investigation, since all utilities attached to the existing bridge need to be either temporarily relocated or permanently relocated, the City doesn't believe a full-bore SUE investigation is necessary. The Consulting Engineer shall keep the cost of a SUE investigation included in their proposal for this project, however, the City suggest discussions between the City, Consulting Engineer, and utility owners be done prior to initiating a SUE investigation to determine if this particular project would benefit from a SUE investigation. If it is determined that a SUE investigation wouldn't add value to the bridge and pedestrian underpass projects, then the cost of the SUE investigation could be deleted from the scope of the Consulting Engineer's work.

7. Q. Will a full closure of G Rd from 24 Rd to Spanish Trail Dr be allowed for bridge construction?

A. No. However, G Road will be allowed to be closed to all traffic from 24 Road to the first access road into Canyon View Park which is about 328 feet east of 24 Road. The City will be working on getting additional right-of-way and easements from the property owner to the southeast of the intersection. The City anticipates getting a large area in the southeast property to serve as a staging area for the contractor. Once a final selection has been made on structure type for both the bridge and pedestrian underpass and final locations determined, the Consulting Engineer shall provide to the City in AutoCAD format the linework (horizontally and vertically) of the proposed structures so the City can finalize the right-of-way and easement documents.

8. Q. Will the existing utilities attached to the bridge need to be relocated, or will they be allowed to hang from the new structure? If relocated, will the relocation plan need to be coordinated/prepared by the bridge design consultant, or by the roadway project?

A. Currently, the City is in the early stages of utility coordination's with the utility owners. The City is meeting with the utility owner's on June 25th and 26th to discuss this proposed project and possible utility relocations. The Consulting Engineer shall prepare the relocation plan for the utilities to be relocated or attached to the new bridge structure and the pedestrian underpass and shown in the construction plans. All utility relocations will have to be considered for both the North Leach Creek bridge and the proposed G Road pedestrian underpass. The City and the utility owners will work with the Consulting Engineer as to whether the utilities get attached to the new structure(s) or if the utilities will be completely realigned around the new bridge structure and the pedestrian underpass. The City will reach out to the utility owners regarding if conduits need to be provided through the new structures for future utilities. For the pedestrian bridge crossing Leach Creek, the only conduits the City anticipates needing are for the pedestrian lights along the trail.

9. Q. Will the City require any bridge rail aesthetic treatments or any irrigation/electrical/future use conduit installed in the bridge structure?

A. Yes, bridge rail aesthetic treatments will be required. The Consulting Engineer shall consider basic urban design elements such as the bridge rails, retaining walls and pedestrian bridge approach railings and how they fit into the existing Canyon View Park.

Future conduits will need to be provided in the bridge superstructure. The City, Consulting Engineer, and the utility owners shall work together to determine if and where future conduits are needed along the bridge structure.

10. Q. Is CDOT participating in the administration of this contract (via CDOT Local Agency Program)?

A. Yes, the City was awarded a CDOT multi-modal options fund (MMOF) grant for the construction of the bike path along 24 Road which includes the two pathway structures (Leach Creek pedestrian bridge and the G Road underpass structure). As a result, the construction plans and specifications for just the Leach Creek pedestrian bridge and G Road underpass will need to adhere to CDOT Local Agency requirements. The grant the City received is only for the construction of these two structures and doesn't include design fees and right-of-way/easement acquisition fees (The design fees of these two structures shall be kept separate from the design fees of the G Road bridge over North Leach Creek).

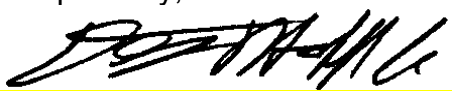
11. Q. Will the City provided Geotechnical Investigation Report include geotechnical engineering recommendations and design criteria for the G Road and Pedestrian Bridge Foundations, the Pedestrian Underpass, and the wall system needed to achieve the grade change to the Pedestrian Underpass? Or should this work be included within the SOQ and fee proposals?

A. Yes, the Geotechnical Investigation Report will include recommendations for the bridge foundations and the underpass, along with the retaining wall recommendations.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,



Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado