



**SANTA FE COUNTY**

**HORROCKS**

**ENGINEERS**

# AVENIDA AZUL MULTI-USE TRAIL FEASIBILITY MEMO

**Project Number:** NM-TR-3803-21

**Prepared For:** Santa Fe County  
904 West Alameda, Suite 20-C  
Santa Fe, New Mexico 87501

**Prepared By:** Horrocks Engineers  
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Albuquerque, NM 87110

**Date:** February 25, 2022

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## Introduction

Santa Fe County (SFC) contracted Horrocks Engineers to complete a feasibility study for a multi-use trail along Avenida Azul from Avenida Vista Grande to Encantado Loop in Eldorado at Santa Fe, New Mexico. This memo summarizes the study process and findings. Figure 1 below displays the study's vicinity map.

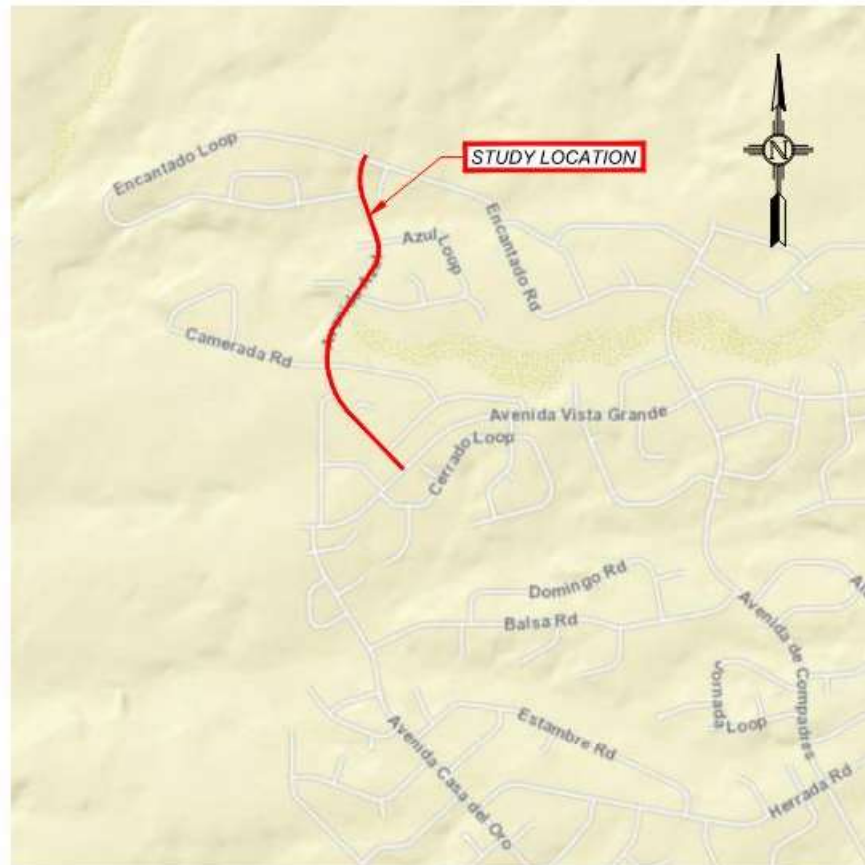


Figure 1. Vicinity Map

### EXISTING CONDITIONS

Currently, Avenida Azul is a two-lane road with one lane in each direction that begins at Avenida Vista Grande and continues north to Encantado Road for approximately 1.15 miles. The existing lane widths are approximately 11.5 feet with shoulders that vary from zero to one-foot wide. An existing concrete box culvert comprised of three barrels, each approximately 8 feet in width by 8 feet in height, is located between the Avenida Azul/Encantado Loop and Avenida Azul/Avenida Place-Azul Loop intersections.

The existing typical sections for the project are displayed in Appendix A – Avenida Azul Multi-Use Trail Typical Sections and Plan and Profile.

## INFORMATION SOURCES

The sources of information used in this study are listed below:

- Traffic counts
  - Santa Fe Metropolitan Planning Organization (SFMPPO) Traffic Count Database System (TSDS) (<https://santafe-mpo.public.ms2soft.com/tcds/tsearch.asp?loc=Santafe-mpo&mod=>)
- Aerial imagery/pictometry and LiDAR DEM
  - Santa Fe County Geographic Information System (GIS) Division
- Parcel Right-of-Way
  - Santa Fe County Geographic Information System (GIS) via ArcGIS Online

The data sources used for topography and parcel right-of-way are approximate and for study purposes only. Topographic and right-of-way surveys should be performed when the project is advanced to design.

## DESIGN GUIDES AND STANDARDS

The following design guides and standard were utilized in the development of this feasibility study:

- American Association of State Highway and Transportation Officials (AASHTO) *Roadside Design Guide* – 4<sup>th</sup> Edition, 2011
- AASHTO *A Policy of Highways and Streets* – 7<sup>th</sup> Edition, 2018
- AASHTO *Guide for the Development of Bicycle Facilities* – 4<sup>th</sup> Edition, 2012
- Federal Highway Administration (FHWA) *Manual on Uniform Traffic Control Devices for Streets and Highways*, 2009 Edition
- New Mexico Department of Transportation (NMDOT) Standard Specifications for Highway and Bridge Construction, 2019 Edition

## PROJECT DESIGN VALUES

The following roadway design values were used:

- AADT: 701 (2020)
- Posted Speed Limit: 25 MPH
- Design Speed Limit: 30 MPH
- Clear Zone Width:
  - Foreslope 1V:6H or flatter: 7 FT – 10 FT
  - Foreslope 1V:5H to 1V:4H 7 FT – 10 FT
  - Backslope 1V:3H 7 FT – 10 FT
  - Backslope 1V:5H to 1V:4H 7 FT – 10 FT
  - Backslope 1V:6H or flatter 7 FT – 10 FT

The following multi-use trail design values were used:

- Width: 10 FT (Note: Per the Santa Fe County’s request, a trail width of 8 FT was utilized. This may require a future design variance as it is less than the minimum paved width for a two-directional shared use path of 10 FT, per *AASHTO Guide for the Development of Bicycle Facilities*.)
- Shoulder Width: 2 FT minimum on both sides of the multi-use trail.
- Cross Slope: 1.5% typical (2.0% max)
- Foreslope: 1V:6H typical (1V:4H max)
- Backslope: 1V:6H typical (1V:4H max)
- Vertical Alignment
  - Maximum Grade: The maximum grade of a shared use path adjacent to a roadway should be 5%. Where a shared use path runs along a roadway with a grade that exceeds 5%, pursuant to the Public Right-of-Way Accessibility Guidelines (PROWAG), the grade (running slope) of accessible pedestrian routes within street right-of-way shall not exceed the general grade established for the adjacent street. The proposed multi-use path grade follows that of the adjacent Avenida Azul.

## PROPOSED TYPICAL SECTIONS

The proposed typical sections for the project are displayed in Appendix A – Avenida Azul Multi-Use Trail Typical Sections and Plan and Profile.

This multi-use trail is assumed to be constructed with a 2” depth of hot mix asphalt placed over 4” depth of aggregate base course on top of a prepared subgrade. The actual pavement section should be confirmed during the design process.

## PROPOSED PLAN AND PROFILE

The preliminary plan and profile for the multi-use trail are displayed in Appendix A – Avenida Azul Multi-Use Trail Typical Sections and Plan and Profile.

## EXISTING RIGHT-OF-WAY IMPACTS

Based upon the GIS data provided by SFC, listed below are locations identified as requiring new right-of-way or easements to construct the proposed multi-use trail alignment. The approximate areas of new right-of-way or easements are also shown:

- Station 28+37.46 RT – Station 28+50.07 RT: ~65.82 sq. ft. = ~0.00 acres
- Station 28+50.07 RT – Station 31+44.27 RT: ~2,045.06 sq. ft. = ~0.05 acres
- Station 32+07.03 RT – Station 36+11.58 RT: ~12,003.10 sq. ft. = ~0.28 acres
- Station 36+11.58 RT – Station 39+86.42 RT: ~11,725.60 sq. ft. = ~0.27 acres
- Station 39+86.42 RT – Station 44+72.32 RT: ~16,120.52 sq. ft. = ~0.37 acres
- Station 45+25.45 RT – Station 49+13.93 RT: ~8,620.72 sq. ft. = ~0.20 acres

- Station 49+13.93 RT – Station 50+68.68 RT: ~1,323.27 sq. ft. = ~0.03 acres
- Station 50+68.68 RT – Station 53+86.32 RT: ~2,192.56 sq. ft. = ~0.05 acres
- Station 54+47.24 RT – Station 57+71.02 RT: ~11,695.46 sq. ft. = ~0.27 acres
- Station 57+71.02 RT – Station 59+34.00 RT: ~8,147.34 sq. ft. = ~0.19 acres
- Station 59+34.00 RT – Station 64+21.70 RT: ~14,097.45 sq. ft. = ~0.32 acres
- Station 64+21.70 RT – Station 66+25.64 RT: ~1,837.56 sq. ft. = ~0.04 acres
- Station 66+25.64 RT – Station 68+29.38 RT: ~1,288.69 sq. ft. = ~0.30 acres
- Total = ~91,163.10 sq. ft. = ~2.09 acres

Values shown above are approximate only. Existing right-of-way limits were determined using GIS data provided by SFC and are for study purposes only. Actual right-of-way survey should be performed if the project advances to design.

### EXISTING UTILITIES IMPACTS

Based upon the site visit conducted, it is anticipated that there will be impacts to existing utilities. If required, relocation and design should be coordinated with the appropriate utility owners and meet appropriate standards. Actual utility impacts should be confirmed if the project advances to design.

### CONCEPTUAL CONSTRUCTION COST ESTIMATE

A conceptual construction cost estimate for this project has been prepared based upon the conceptual typical sections and plan and profile prepared for the multi-use trail along Avenida Azul. It should be noted that the estimated quantities are based upon conceptual drawings and during the design process the estimated quantities will continue to be refined.

The estimated unit prices are based upon historical data from the New Mexico Department of Transportation. Additionally, a contingency of 30% has been added to help account for construction items not yet identified as needed in the study phase. This is an estimate of construction cost only and does not include other project costs such as engineering, surveying, right-of-way acquisition, utility relocation, or other related project studies or tasks. This estimate has been prepared in a time of rapid inflation in the labor, materials, and commodity markets. The estimated construction cost should be updated as the project progresses. The estimated construction cost presented herein is an estimate only and no guarantee can be made as to final actual cost. Below is the conceptual construction cost estimate prepared for this project.

Avenida Azul Multi-Use Trail Conceptual Cost Estimate	
Category	Cost
Roadway	\$567,900.00
Major Structures	\$41,400.00
Construction Signing	\$20,000.00
Permanent Signing	\$17,175.00
Construction Engineering	\$18,000.00
<b>Subtotal</b>	<b>\$664,475.00</b>
NMGRT @ 7.125%	\$47,343.84
Contingency @ 30.00%	\$199,342.50
<b>Total</b>	<b>\$911,161.34</b>

The detailed conceptual construction cost estimate is located in Appendix B – Avenida Azul Conceptual Construction Cost Estimate

## NMDOT TRIBAL/LOCAL PUBLIC AGENCY PROJECT APPLICATION PROCESS SUMMARY

Possible funding sources for the project include those administered through the New Mexico Department of Transportation (NMDOT). Below is an excerpt from the NMDOT's [Tribal/Local Public Agency Handbook 2019](#) regarding funding the application process.

### ***“STEP 1: CONTACT MPO/RTPO***

*T/LPA contacts appropriate MPO/RTPO staff as listed in the MPO/RTPO Planner and Program Manager Contacts list to discuss funding options and project elements. At this time the T/LPA must identify a point of contact and clearly indicate the Person in Responsible Charge for the planning process (may not be the same person throughout the life of the project).*

### ***STEP 2: PROJECT SCOPING/PROJECT FEASIBILITY FORM T/LPA***

*Person in Responsible Charge completes the PFF, a one-page form with basic project information that is used as a discussion tool to determine project feasibility prior to submittal of the application (see Step 6). This form is used to begin the project definition phase, which identifies needs and major elements of the project scope. More details on the project scoping process and Project Scoping Reports are outlined in Chapter 4, Section C. The PFF can be submitted at any time but specific deadlines apply during funding award cycles.*

### ***STEP 3: FEASIBILITY MEETING***

*MPO/RTPO staff reviews the PFF and schedules the feasibility meeting to discuss project elements and review the project development process outlined in this Handbook. MPO/RTPO staff facilitates the meeting and invites the following parties to attend:*

- *NMDOT District Technical Support Engineer (TSE)*
- *NMDOT Planning Liaison*
- *NMDOT Construction Liaison Engineer (CLE)*
- *NMDOT Environmental Bureau T/LPA Coordinator*
- *T/LPA Person in Responsible Charge*
- *NMDOT Region Coordinator*
- *NMDOT MPPB Program Coordinator*

*The T/LPA project sponsor is encouraged to bring all staff responsible for project administration. See a list of questions and discussion topics to be covered during the feasibility meeting.*

### ***STEP 4: FEASIBILITY DETERMINATION***

*If NMDOT determines that the project is feasible, the NMDOT District TSE and the T/LPA Person in Responsible Charge will document any issues identified and will both sign the PFF. A signed copy of the*



PPF must be submitted as part of the project application. Any projects submitted without a signed PPF will not be considered for funding. In general, a project is determined to be feasible if:

- The T/LPA has identified the matching funds and submitted a resolution or letter signed by a person with fiscal authority for the T/LPA
- The TSE has reviewed and concurred with the cost estimate and scope of work provided by the T/LPA and determined that the estimate is appropriate for the proposed scope based on experience and expertise
- The design and construction are properly phased to allow the T/LPA time to meet all deadlines, as outlined in Chapter 2, Section C of this Handbook
- The scope of work has been clearly defined and the NMDOT Environmental Bureau T/LPA Coordinator has reviewed and provided input

#### **STEP 5: PROJECT PROSPECTUS FORM (PPF)**

The Project Prospectus Form (PPF) includes a description of specific project elements and narrative questions addressing goals and planning factors. The goals listed in the MPO/RTPO long-range plans can help T/LPAs address these narrative questions. Depending on the funding program, the narrative part of the PPF may be replaced by a program specific application, contact the MPO or RTPO planner with questions about this step.

The T/LPA completes the PPF and submits the form to the MPO or RTPO staff. The information in this form is used by NMDOT to enter projects in the STIP and thus must be accurately and thoroughly completed. This form should include information that will be transferred to the Scoping Report as outlined in Chapter 4, Section C. T/LPA staff should completely read the appropriate funding program guide and the PPF prior to filling out the forms. MPO and RTPO staff may be consulted for assistance in filling out the form. All phases of a project must be clearly defined on the PPF with associated cost estimates, so they can be properly documented in the agreement process, as described in Chapter 2 - Agreements. Most projects have phases for the following: preliminary engineering, right-of-way, construction, and construction management (including materials testing, and observation).

#### **STEP 6: SUBMITTAL OF APPLICATION**

The PPF, PPF, funding program application (for TAP, RTP, CMAQ-F), and any supporting documentation must be submitted to the MPO/RTPO planner or program manager by the deadlines specified in the applicable program guide. Each MPO/RTPO sets a timeline at the beginning of the application cycle with specified due dates. As part of the project application for funding, the T/LPA shall prepare a detailed independent estimate for each phase: preliminary engineering, construction, and construction management with an appropriate breakdown of the work or labor hours, types or classifications of labor required, and other direct costs.

#### **STEP 7: PROJECT SELECTION**

The project selection process depends on the funding program. Programs administered by the MPPB will be ranked according to the scoring sheets in the program guide and selected at a statewide level. For funding sources administered by the NMDOT district (e.g. NHPP and STBG-S), the MPO/RTPO policy board will rank the projects according to their project scoring criteria and the ranked list of

*recommendations is forwarded to the NMDOT district staff for funding consideration. NMDOT MPPB Program Coordinators screen project and entity eligibility during the project selection process.*

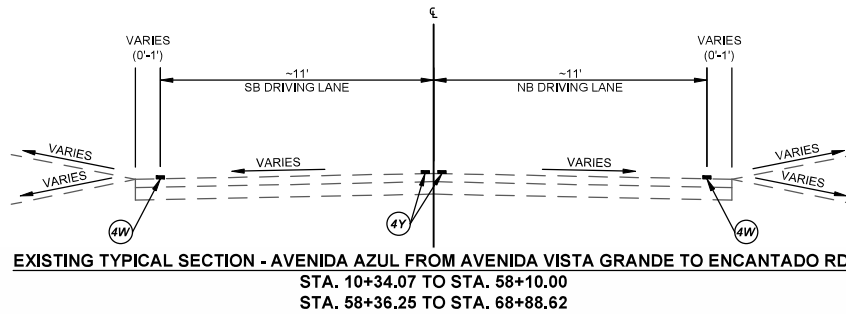
*For funding sources allocated directly to TMA MPOs (e.g. STBG-L and TAP-L), the MPO policy board will approve projects based on the MPO's selection and scoring criteria.*

**STEP 8: AWARD LETTER**

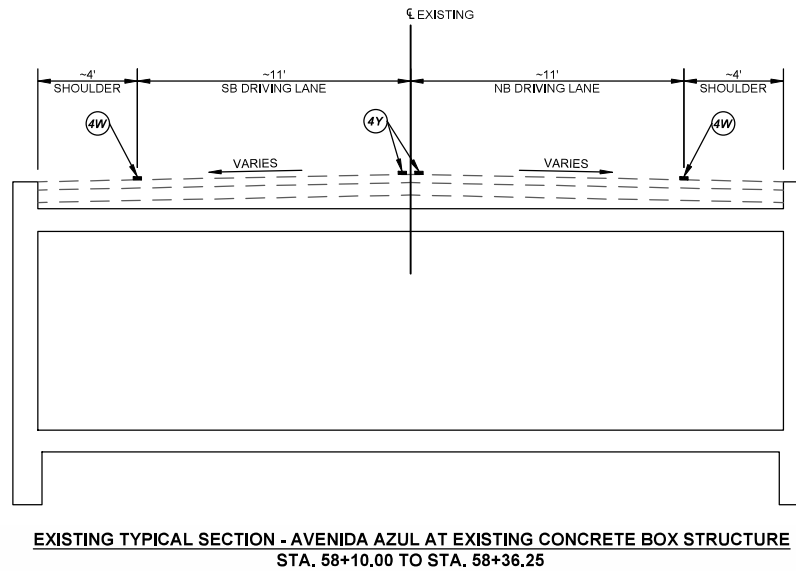
*If the project is selected, NMDOT issues an award letter and/or an award form to the T/LPA Person in Responsible Charge. The T/LPA responsible charge must review, sign, and return the award form to the NMDOT Program Coordinator indicating the T/LPA's acceptance of the award. MPOs enter the projects that fall within their boundaries into the TIP, while NMDOT District staff enters projects for the RTPPO areas into the STIP. For more information on the process and requirements for including projects in the STIP, please refer to the STIP Procedures Manual."*

# Appendix A: Avenida Azul Multi-Use Trail Typical Sections and Plan and Profile

**PLANNING PURPOSES ONLY. NOT FOR CONSTRUCTION.**



- LEGEND:**
- (4W) 4" EXISTING SOLID WHITE STRIPE
  - (4Y) 4" EXISTING SOLID YELLOW STRIPE



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AVENIDA AZUL MULTI-USE TRAIL FEASIBILITY

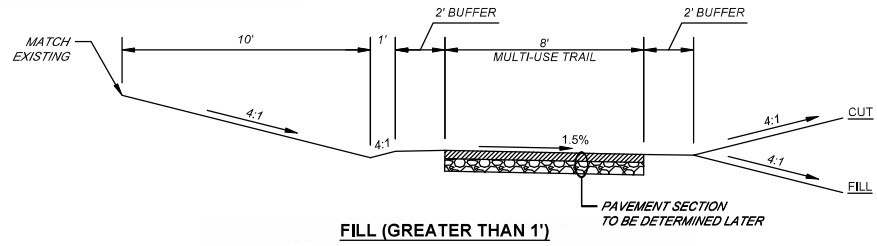
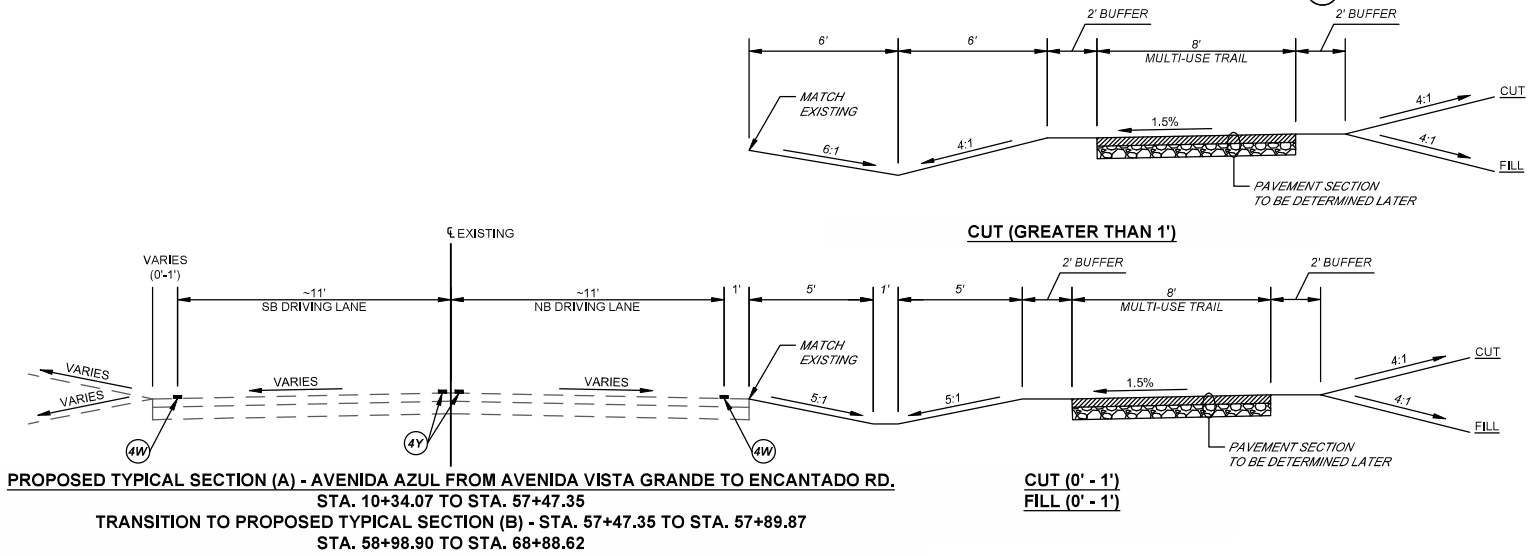
LEGEND:



4" EXISTING SOLID WHITE STRIPE

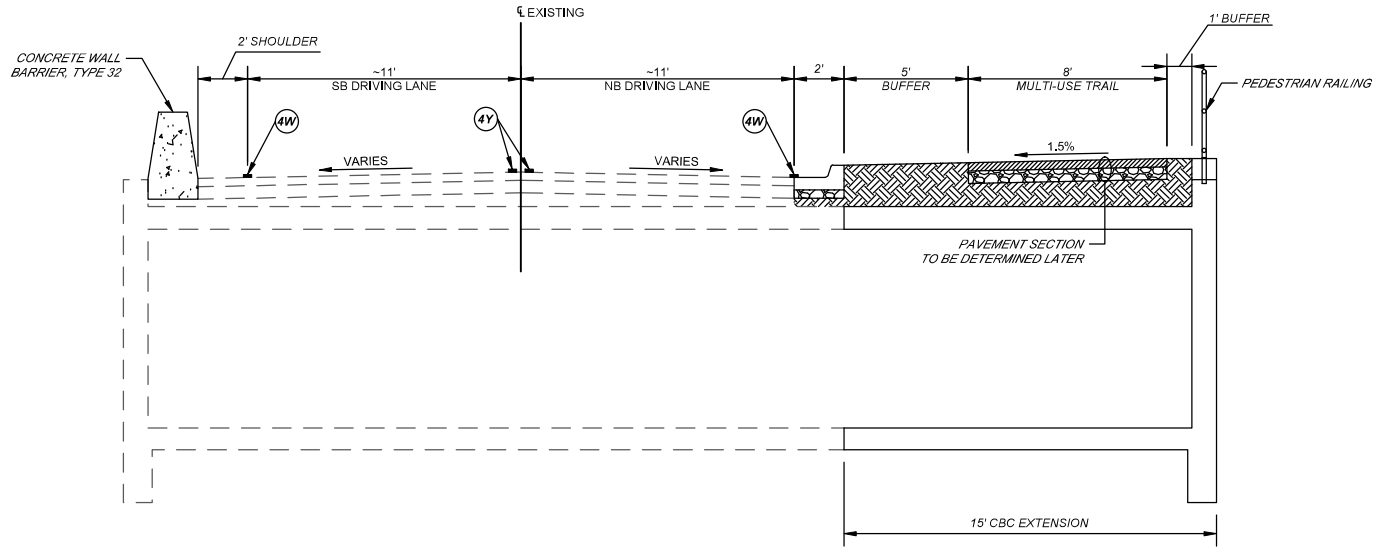


4" EXISTING SOLID YELLOW STRIPE



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IS ENGINEERS  
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 PHONE: (505) 872-0880  
 EMAIL: THEDESIGNS@HORROCKS.COM  
 HORROCKS JOB NO. NM-TR-3803-21



- LEGEND:**
- 4W 4" EXISTING SOLID WHITE STRIPE
  - 4Y 4" EXISTING SOLID YELLOW STRIPE

**PROPOSED TYPICAL SECTION (B) - AVENIDA AZUL AT EXISTING CONCRETE BOX CULVERT**  
 STA. 57+89.87 TO STA. 58+56.67  
 TRANSITION TO PROPOSED TYPICAL SECTION (A) - STA. 58+56.37 TO STA. 58+98.90

**HORR  
 ENGIN**

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THADDEUS YAZZIE  
 24-Feb-22 4:07 PM

Drawing File: Q:\2021\NM-TR-3803-21 SANTA FE COUNTY - AVENIDA AZUL\PROJECT DATA\SHEET\_FILES\TYPICALS\NM-TR-4543-21\_AVENIDA AZUL\_TYPICAL EXHIBIT\_REV.DWG

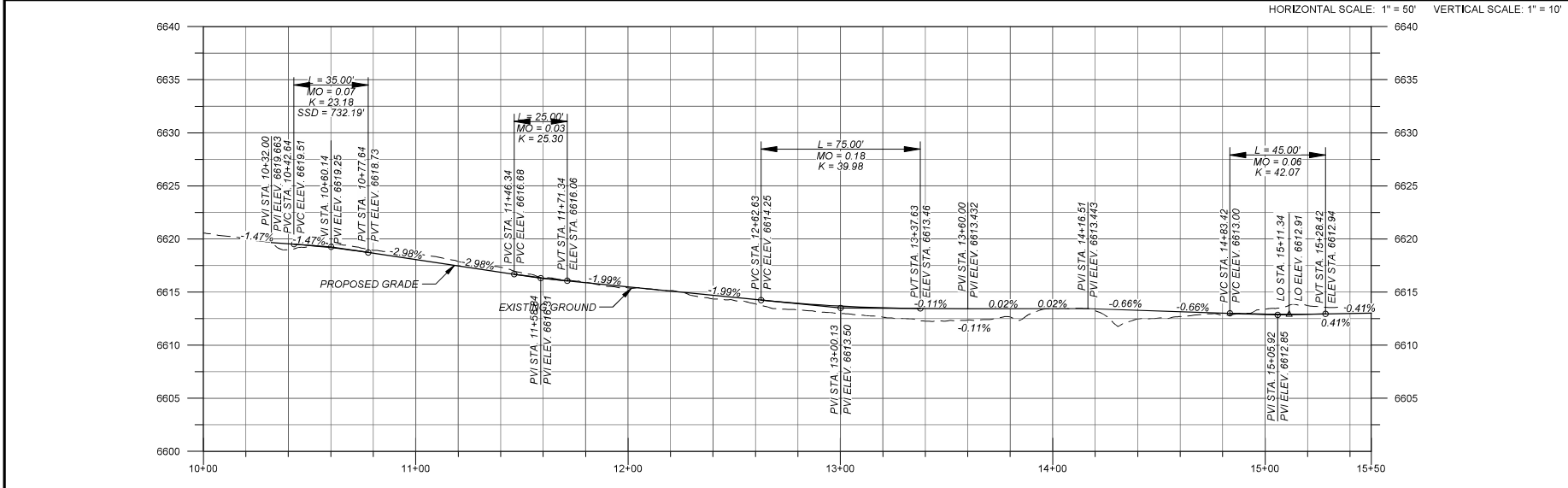
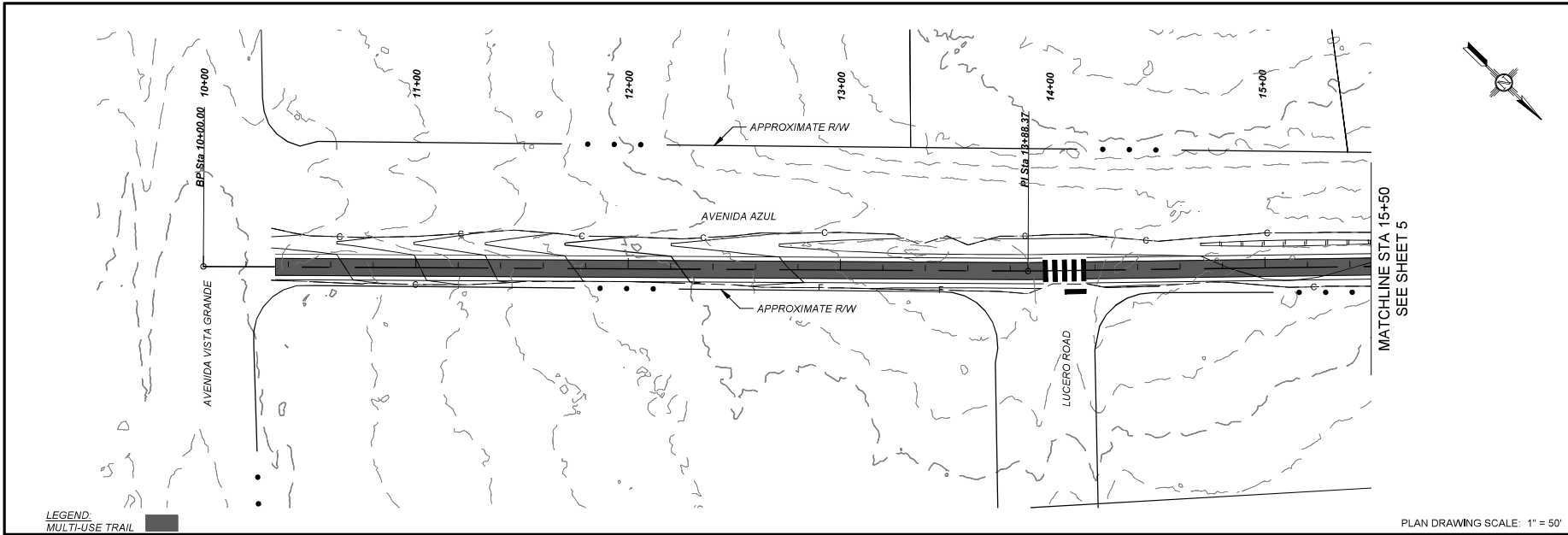
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DRAWING SCALE: 1:5

SHEET NO. 3

SANTA FE COUNTY

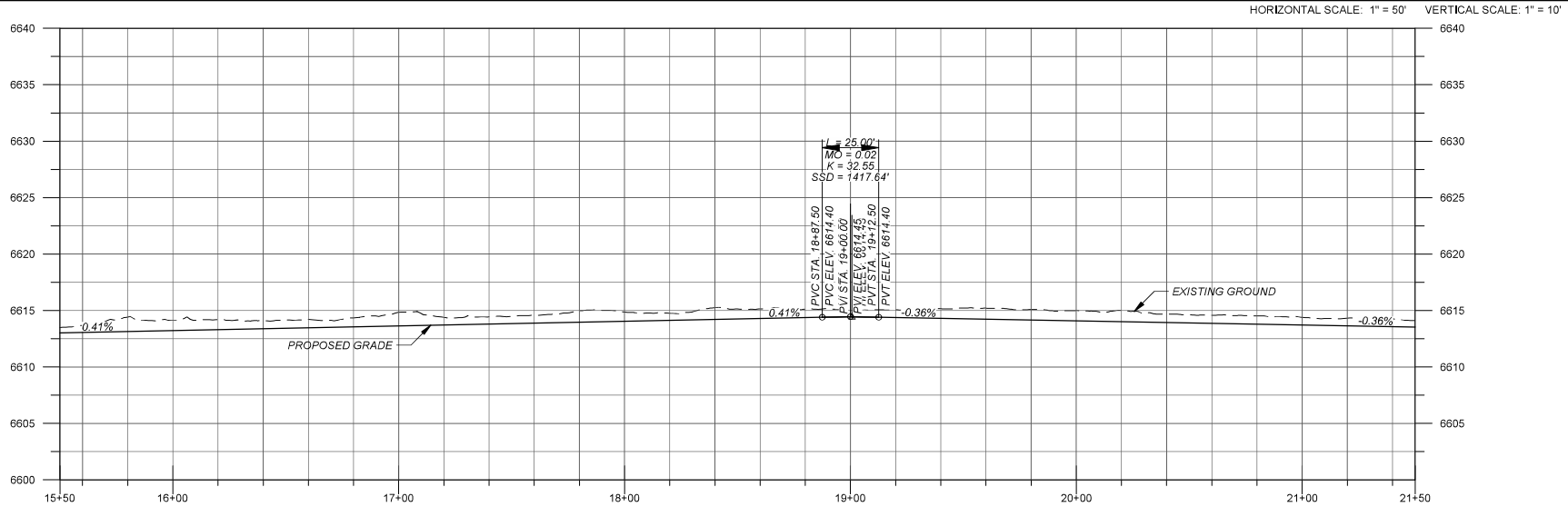
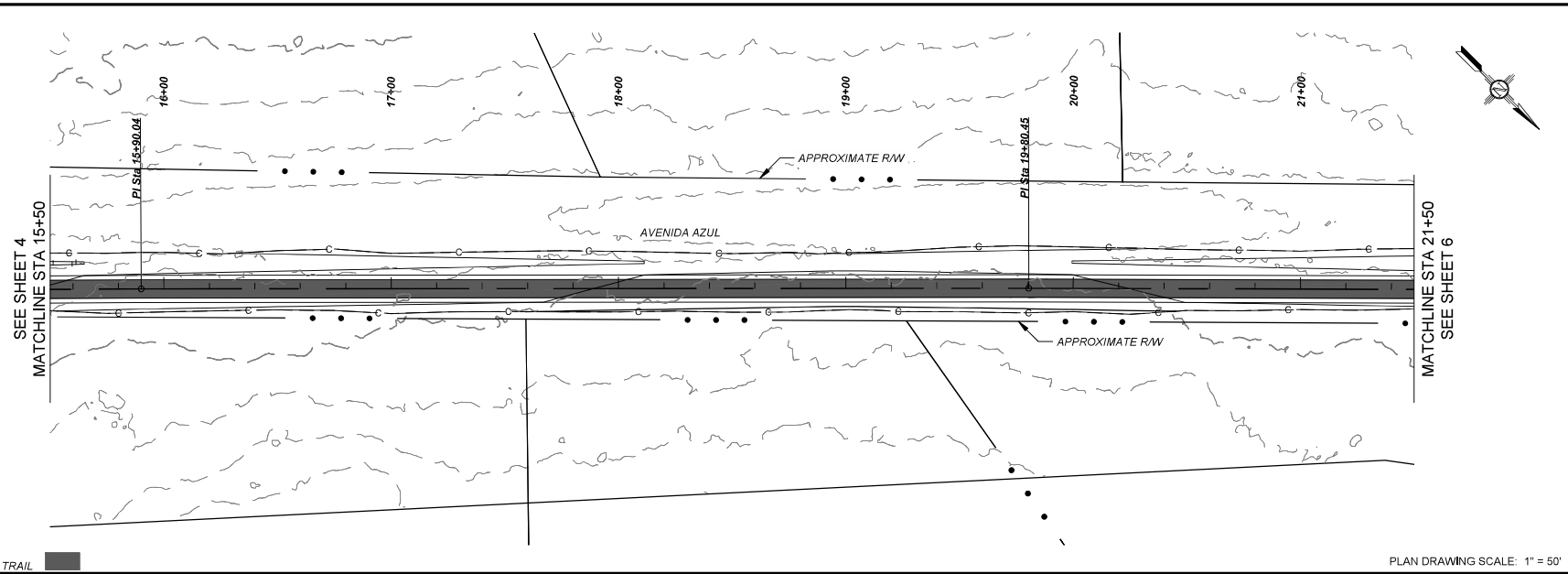
AVENIDA AZUL MULTI-USE TRAIL FEASIBILITY



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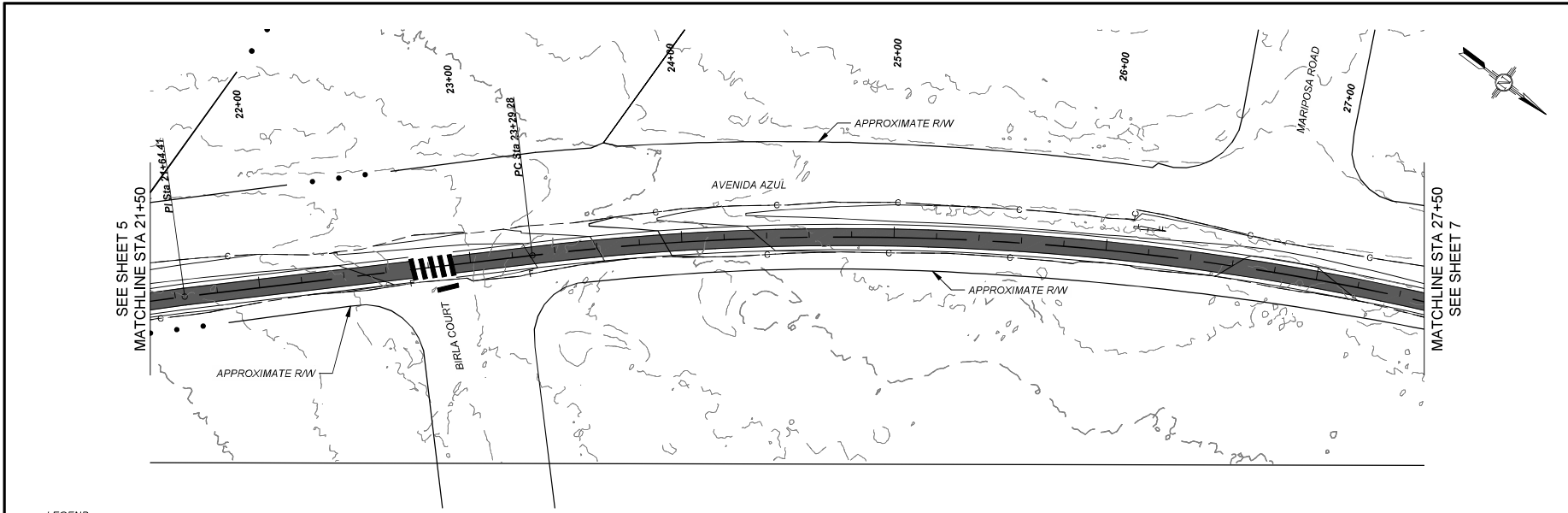
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AVENIDA AZUL MULTI-USE TRAIL FEASIBILITY  
 MULTI-USE TRAIL PLAN AND PROFILE



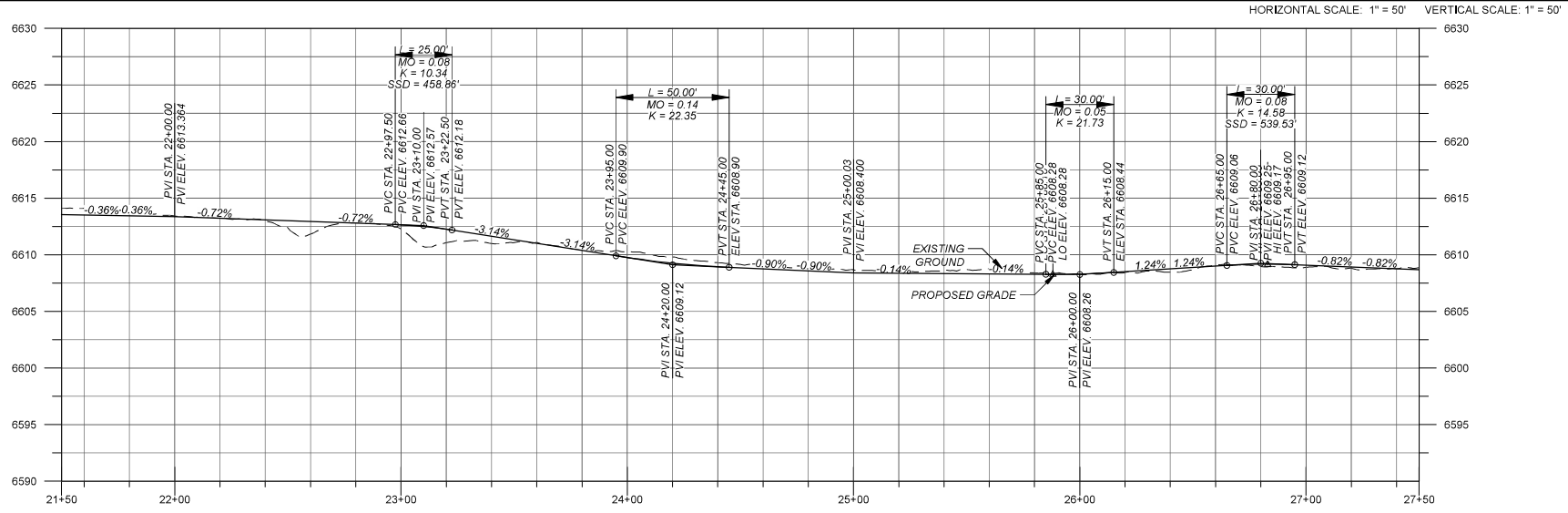
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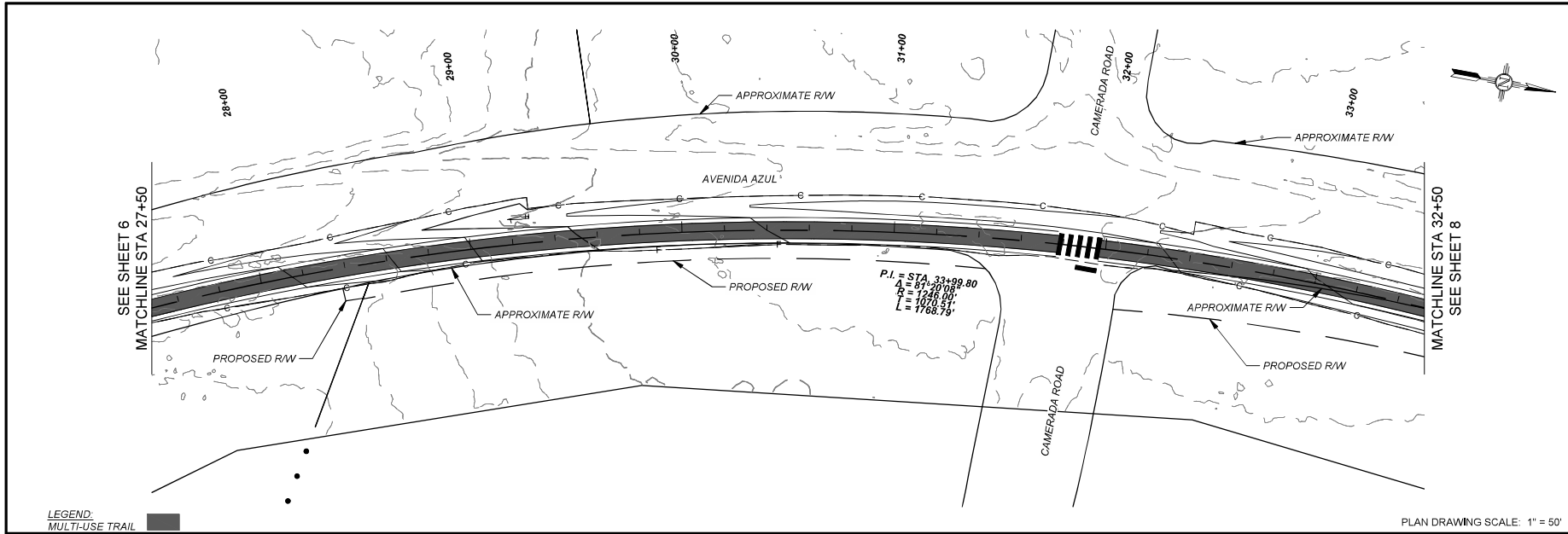


LEGEND:  
 MULTI-USE TRAIL

PLAN DRAWING SCALE: 1" = 50'



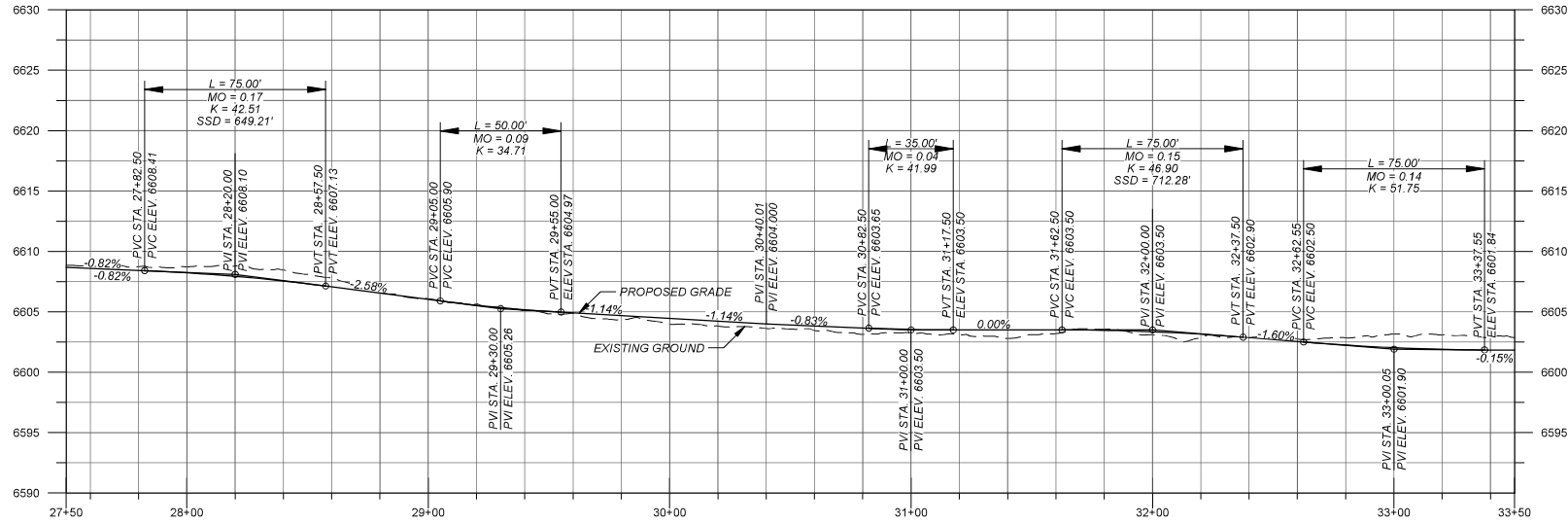
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LEGEND:  
 MULTI-USE TRAIL

PLAN DRAWING SCALE: 1" = 50'

HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 10'

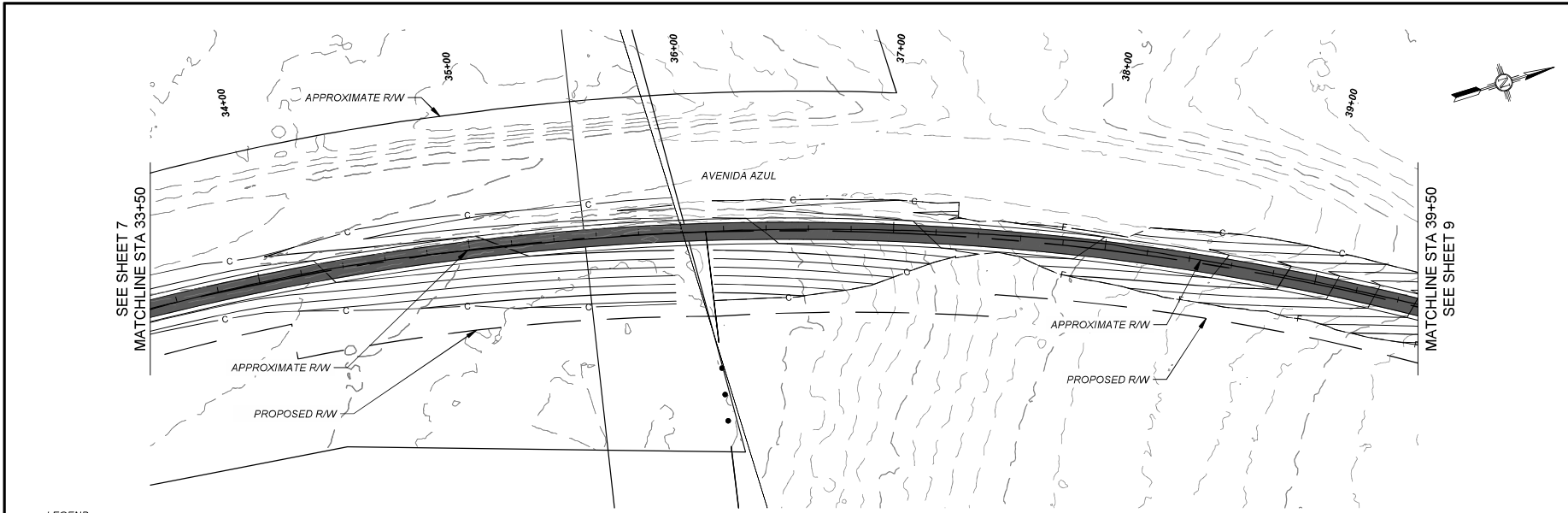


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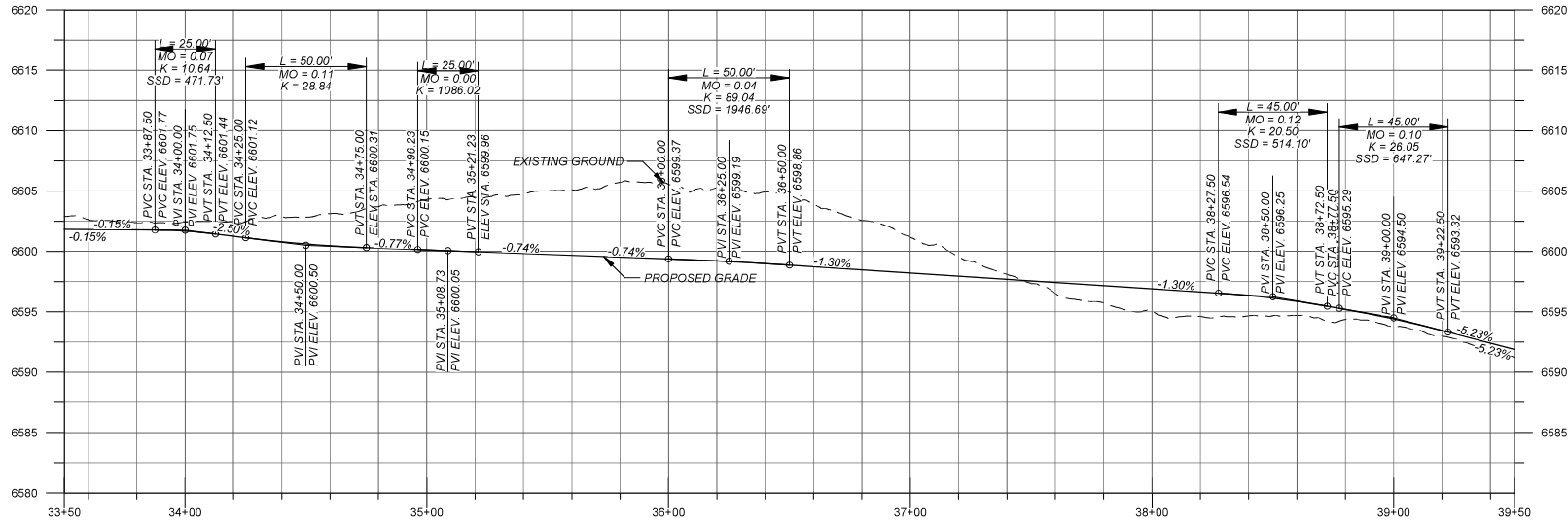
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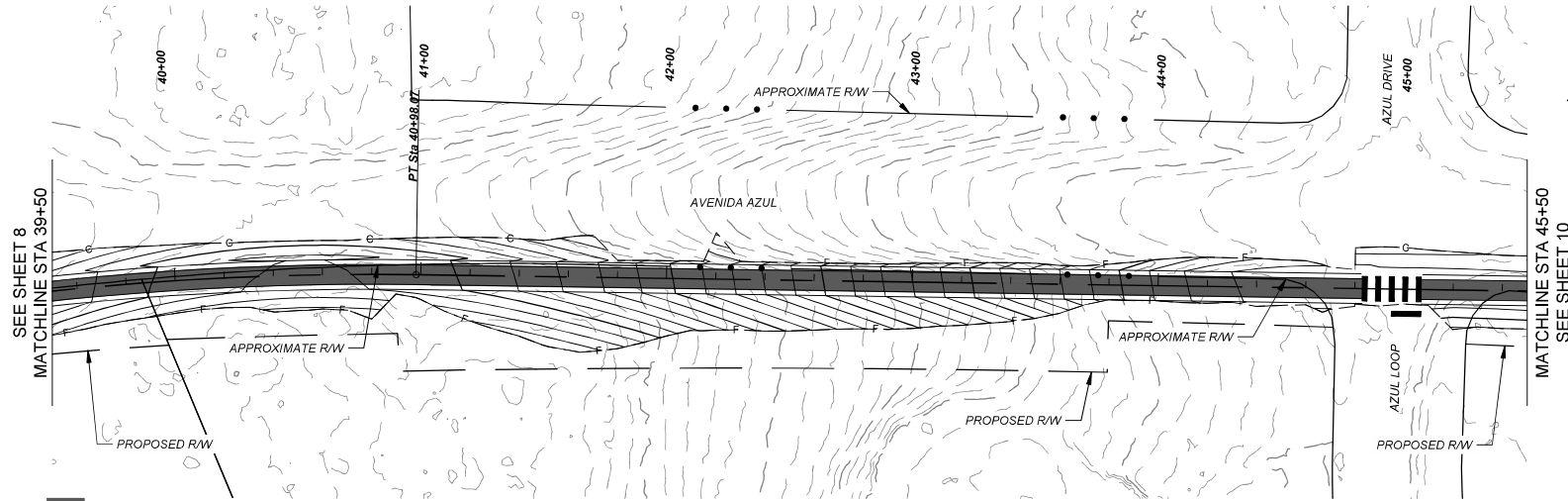
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 MULTI-USE TRAIL

PLAN DRAWING SCALE: 1" = 50'

HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 10'

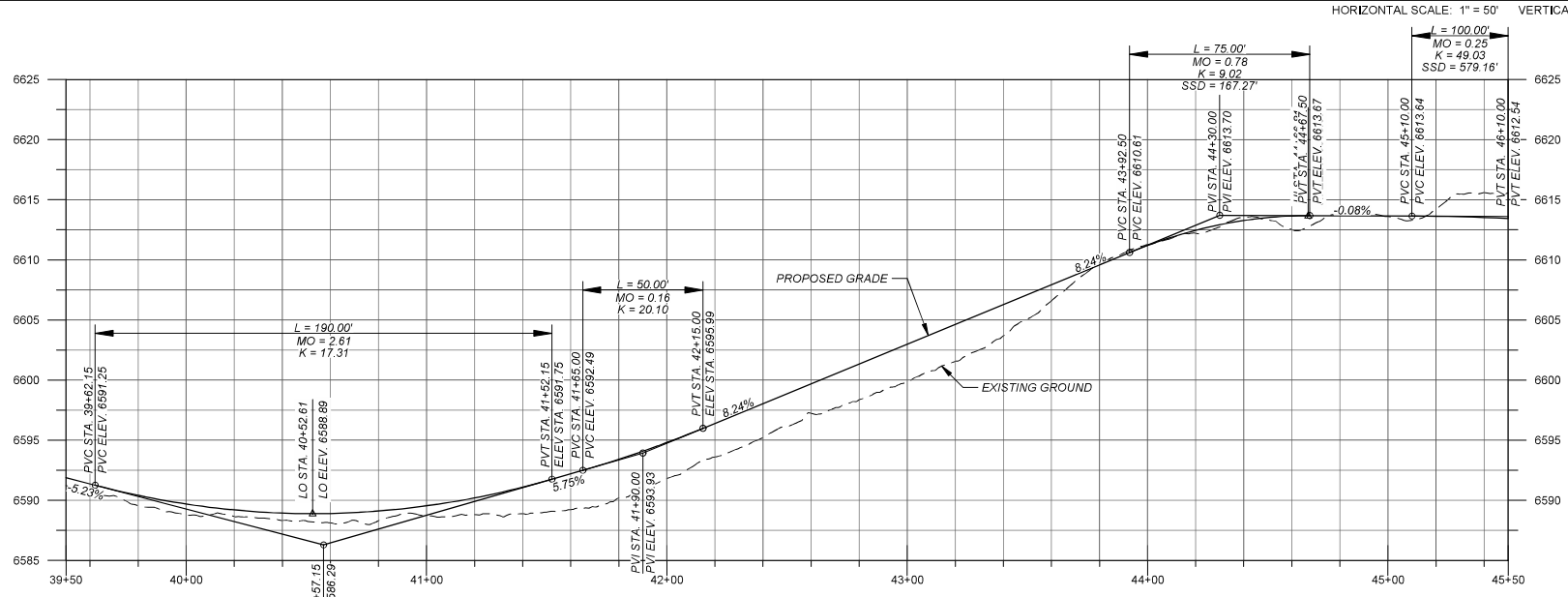


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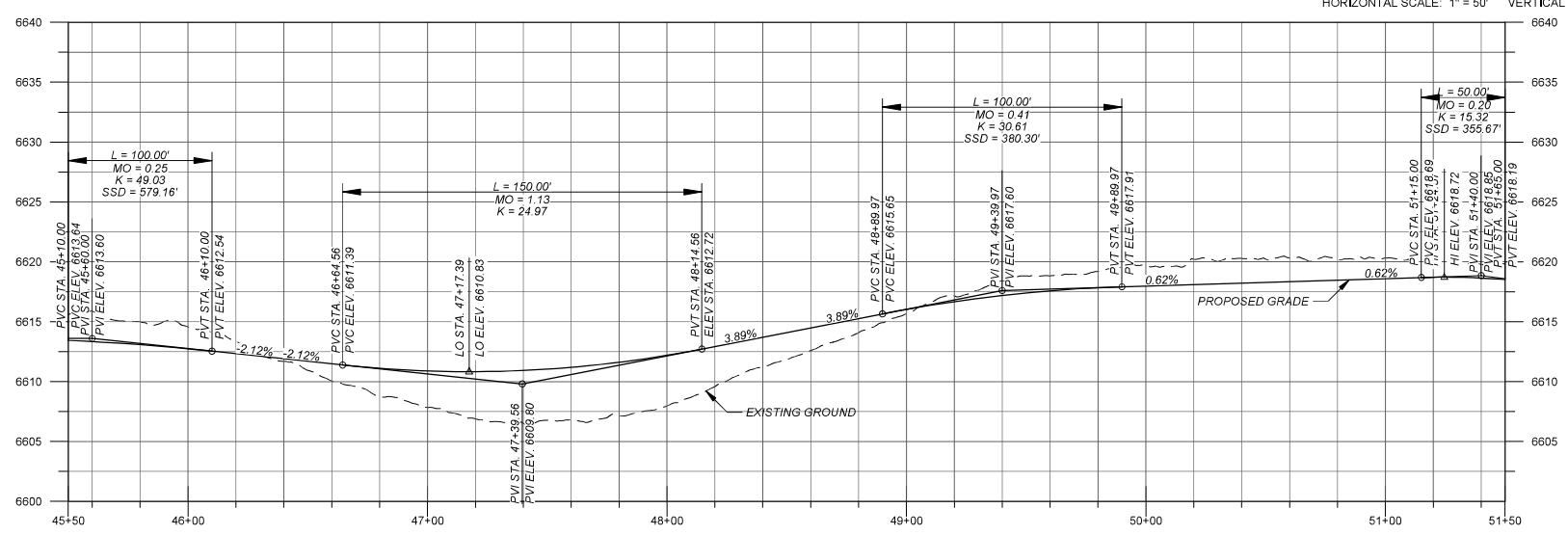
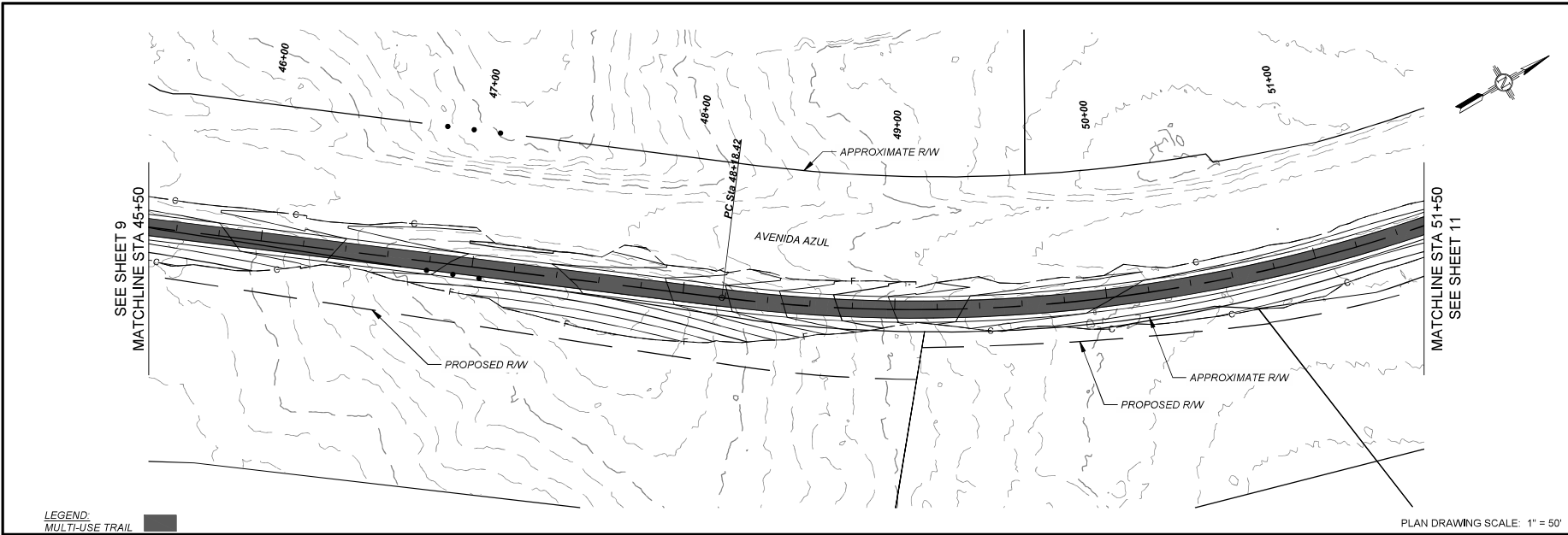


LEGEND:  
 MULTI-USE TRAIL

HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 10'



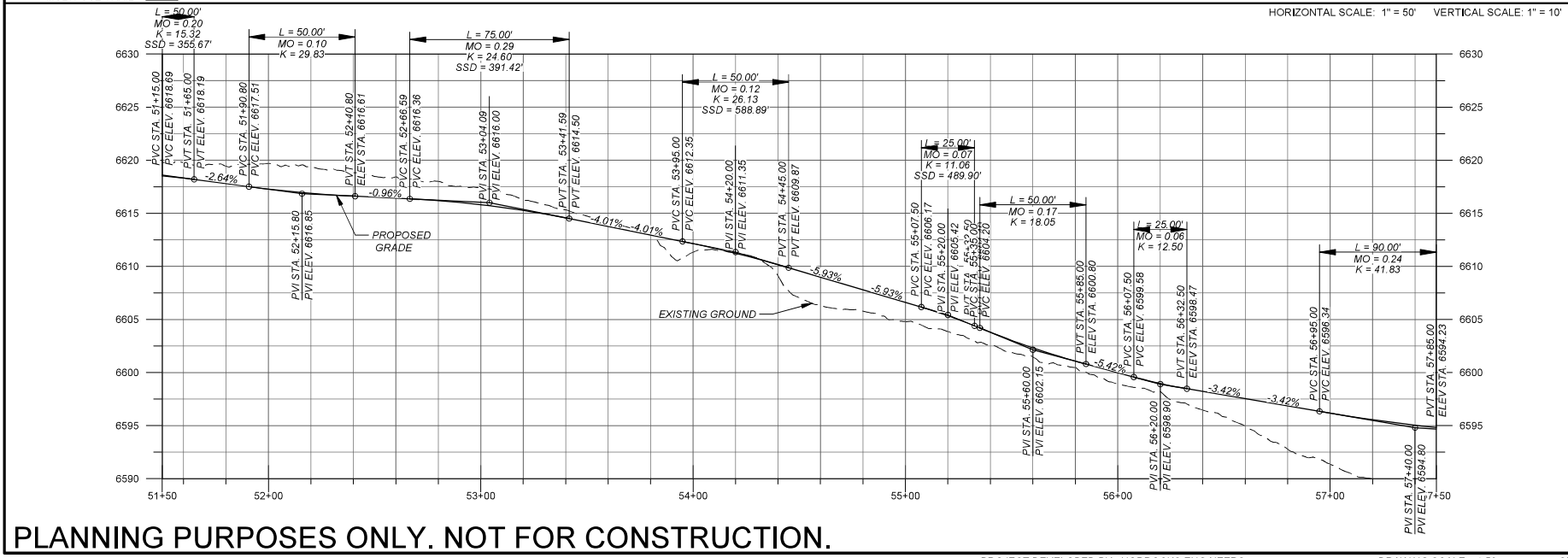
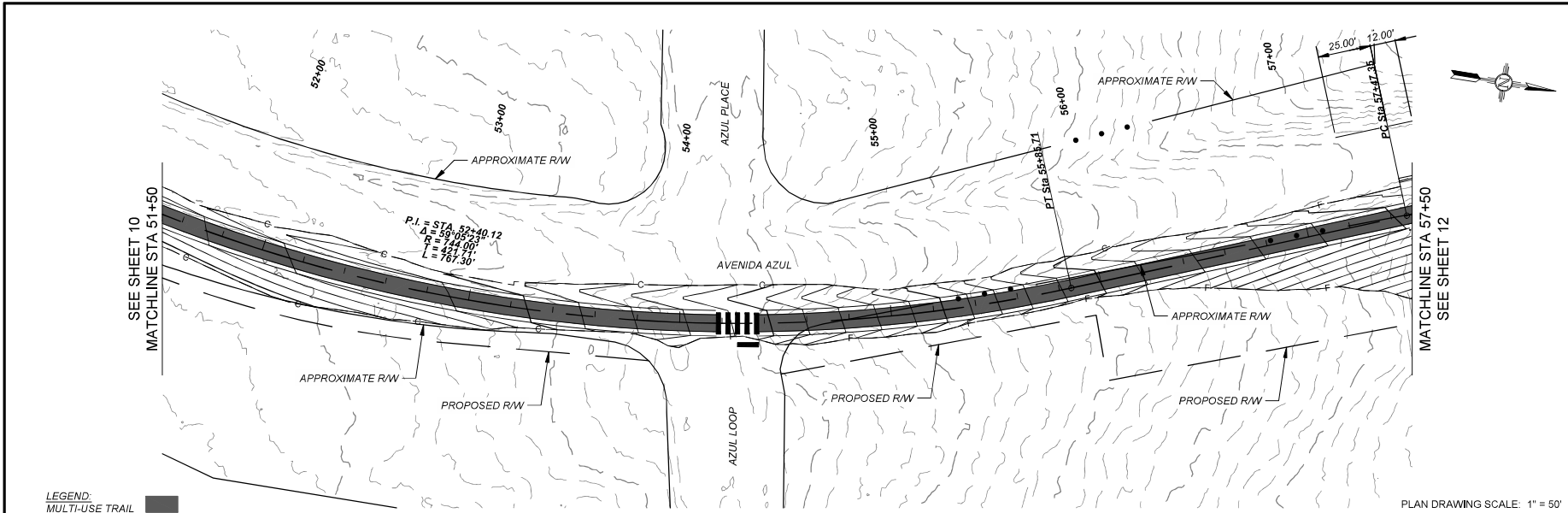
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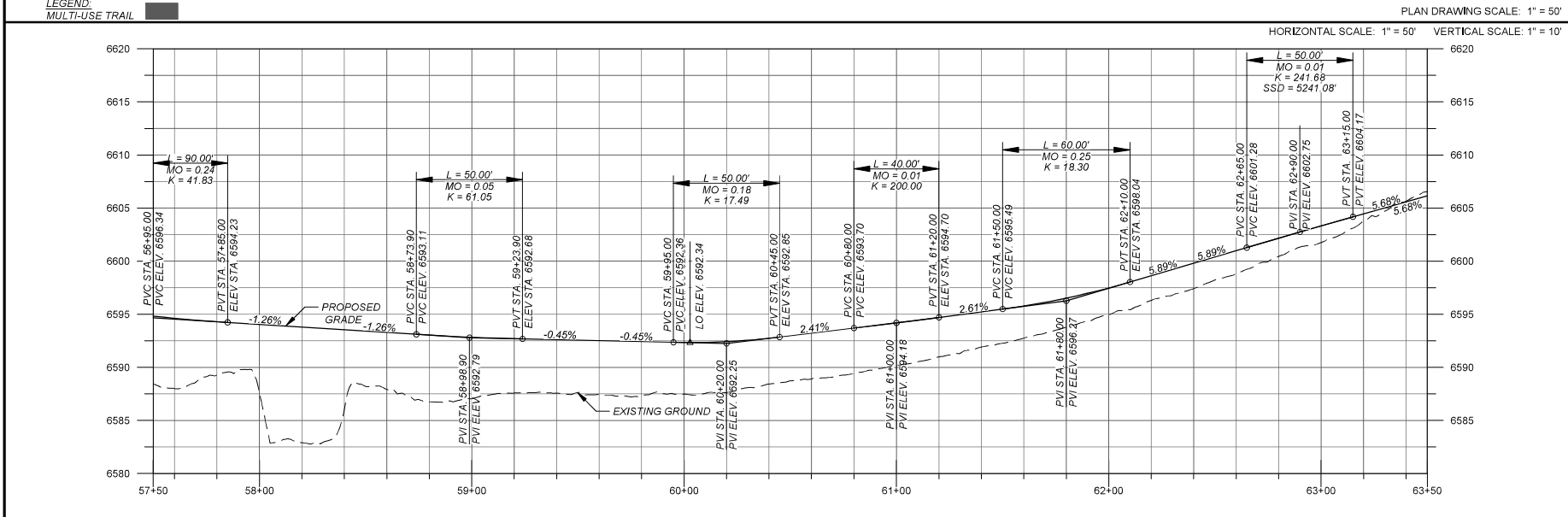
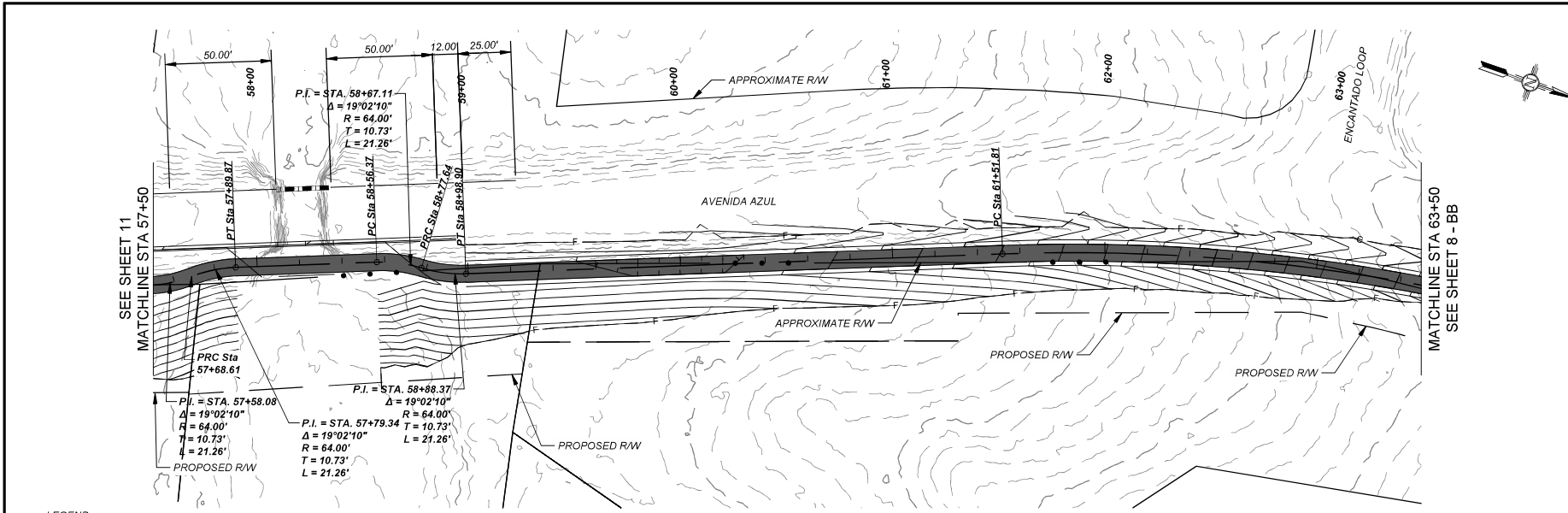
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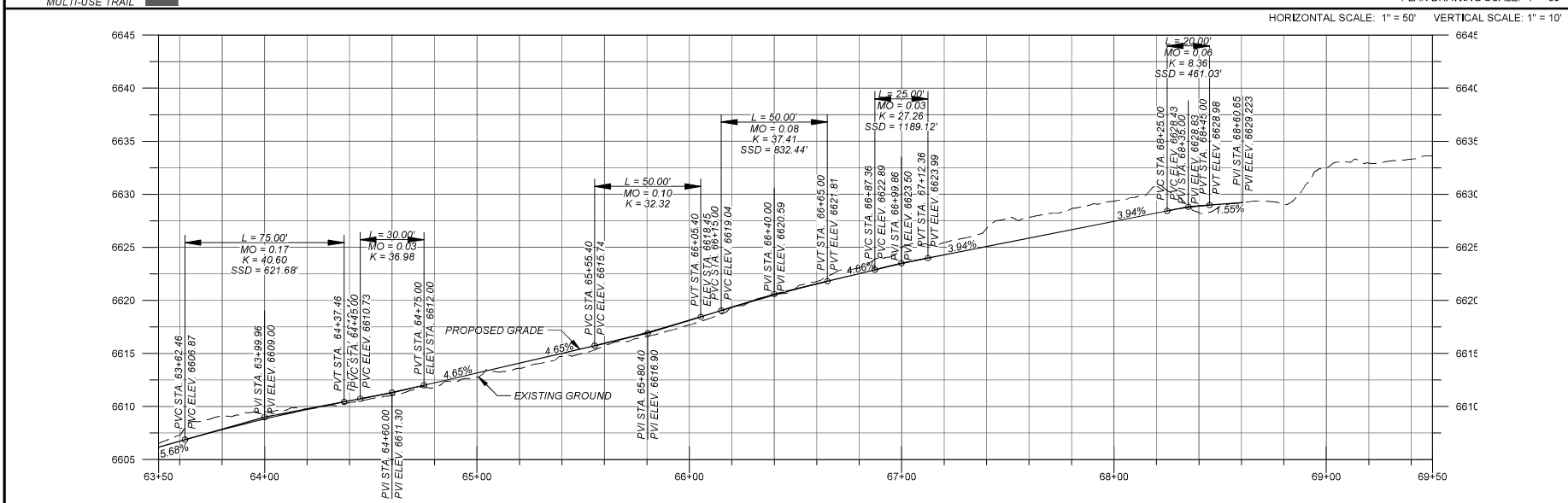
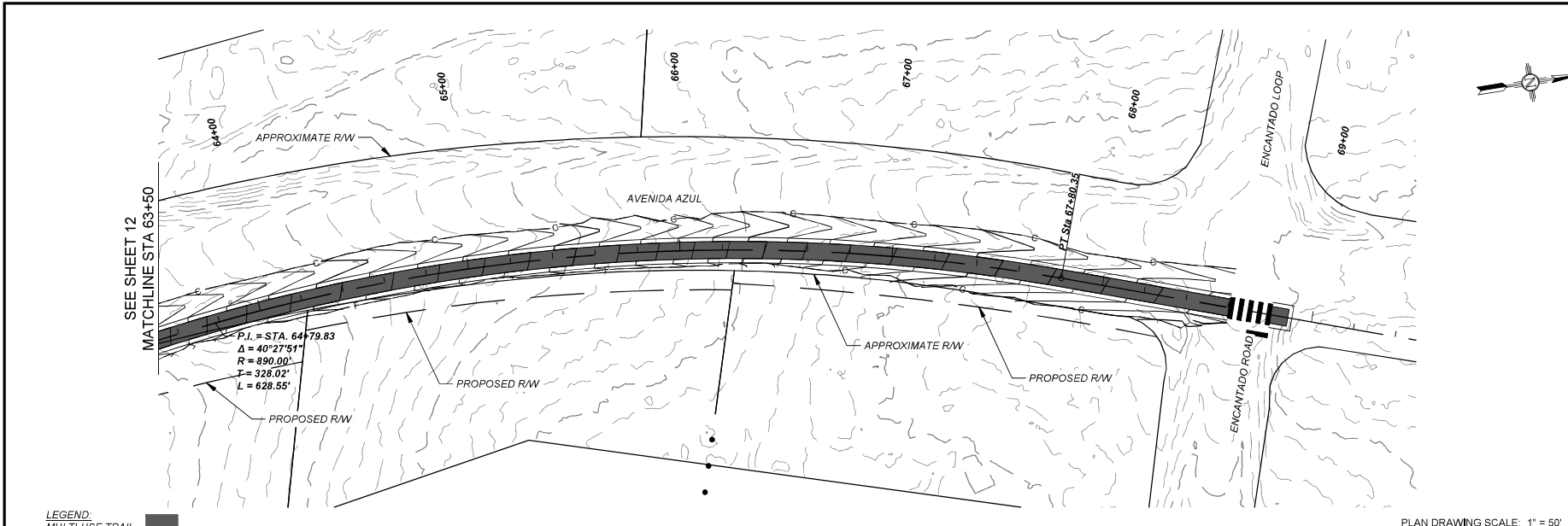
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AVENIDA AZUL MULTI-USE TRAIL FEASIBILITY  
 MULTI-USE TRAIL PLAN AND PROFILE



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# Appendix B: Avenida Azul Conceptual Construction Cost Estimate

**Santa Fe County**

CONCEPTUAL COST ESTIMATE (FOR ESTIMATING PURPOSES ONLY)

PROJECT LENGTH: 1.11 Miles

Horrocks Project No. NM-TR-3802-21

ROUTE / ROAD: Avenida Azul Multi-Use Trail

TYPE OF CONSTRUCTION: Multi-Use Trail Construction, Grading, Signing & Striping, and CBC Extension

PAVEMENT WIDTH: 8 feet (multi-use trail)

PAVEMENT THICKNESS: Reconstruction - 2" HMA over 4" ABC

PREPARED BY: Horrocks Engineers	Date:	2/3/22
PRICED BY: Horrocks Engineers	Date:	2/3/22
REVISED BY: Horrocks Engineers	Date:	2/15/22

Summary

Category	Subtotal	NMGRT	E&C	Total
Roadway	\$567,900.00	\$40,462.88	\$170,370.00	\$778,732.88
Major Structures	\$41,400.00	\$2,949.75	\$12,420.00	\$56,769.75
Construction Signing	\$20,000.00	\$1,425.00	\$6,000.00	\$27,425.00
Permanent Signing	\$17,175.00	\$1,223.72	\$5,152.50	\$23,551.22
Construction Engineering	\$18,000.00	\$1,282.50	\$5,400.00	\$24,682.50
Project Total	\$664,475.00	\$47,343.84	\$199,342.50	\$911,161.34

**DISCLAIMER ON THE ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COST**

This ENGINEER’S opinion of probable construction cost is made on the basis of the ENGINEER’S experience and qualifications and represents the ENGINEER’S best judgment as an experienced and qualified professional generally familiar with the industry. However, since the ENGINEER has no control over the cost of labor, materials, equipment, or services furnished by others, or over the Contractor’s methods of determining prices, or over competitive bidding or market conditions, the ENGINEER cannot and does not guarantee that proposals, bids, or actual construction cost will not vary from opinions of probable construction cost as prepared by the ENGINEER. If the OWNER wishes greater assurance as to probable construction costs, the OWNER shall employ an independent cost estimator or contractor. Prices for the extension of private utilities (i.e. electrical, gas, phone, cable tv, etc.) are not included in this estimate. The OWNER should contact local utility companies to obtain current charges and rebates.

**NOTES:**

1. Quantities are purely estimates based off design drawings. Actual quantities will be determined at the conclusion of final construction.
2. Unit costs are our best estimates based on similar projects. These costs are not guarantees. A number of factors may affect these costs when ultimately priced by a contractor.
3. This “Engineer Estimate of Probable Cost” does not include fees that maybe charged by local municipalities such as impact fees, building permit fees, review fees, etc.
4. Percentages included in “Other Costs” are general estimates. Actual amounts will be contracted for at the time of design and/or prior to the commencement of construction.
5. “Admin., legal and marketing” is totally at the discretion of the owner/developer.
6. All cost requested by the owner/developer outside the scope of the contracts negotiated during the course of this project will be additional services and are not included in the “Total Engineer Estimate of Probable Cost” as listed above.

**Santa Fe County**  
 CONCEPTUAL COST ESTIMATE (FOR ESTIMATING PURPOSES ONLY)

PROJECT LENGTH: 1.11 Miles

Horrocks Project No. NM-TR-3802-21  
 ROUTE / ROAD: Avenida Azul Multi-Use Trail

TYPE OF CONSTRUCTION: Multi-Use Trail Construction, Grading, Signing & Striping, and CBC Extension

PAVEMENT WIDTH: 8 feet (multi-use trail)  
 PAVEMENT THICKNESS: Reconstruction - 2" HMA over 4" ABC

PREPARED BY: Horrocks Engineers Date: 2/3/22  
 PRICED BY: Horrocks Engineers Date: 2/3/22  
 REVISED BY: Horrocks Engineers Date: 2/15/22

**Santa Fe County** **2/15/22**  
 Category:  
 Roadway

BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
201000	CLEARING AND GRUBBING	LS	1	\$15,000.00	\$15,000.00
203000	UNCLASSIFIED EXCAVATION	C.Y.	3300	\$30.00	\$99,000.00
203100	BORROW	C.Y.	700	\$45.00	\$31,500.00
207000	SUBGRADE PREPARATION	S.Y.	5200	\$4.25	\$22,100.00
303140	BASE COURSE 4"	S.Y.	5200	\$10.00	\$52,000.00
408100	PRIME COAT MATERIAL	TON	10	\$850.00	\$8,500.00
416004	MINOR PAVEMENT HMA SP-IV	S.Y.	5200	\$40.00	\$208,000.00
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1	\$7,500.00	\$7,500.00
603281	SWPPP PLAN PREPARATION AND MAINTENANCE	LS	1	\$5,000.00	\$5,000.00
606052	END TREATMENT TL-2 END TERMINAL	EACH	2	\$3,250.00	\$6,500.00
606062	TRANSITION METAL BARRIER TO RIGID BARRIER	EACH	2	\$5,000.00	\$10,000.00
606532	CONCRETE WALL BARRIER 32"	L.F.	26	\$450.00	\$11,700.00
607079	PEDESTRIAN/BICYCLE RAILING	L.F.	26	\$350.00	\$9,100.00
608020	SIDEWALK CULVERT (SINGLE)	i	10	\$1,100.00	\$11,000.00
609424	CONCRETE VERTICAL CURB AND GUTTER TYPE B 6" X 24"	L.F.	150	\$40.00	\$6,000.00
621000	MOBILIZATION	LS	1	\$35,000.00	\$35,000.00
570XXX	PIPE CULVERTS (FOR ESTIMATING PURPOSES ONLY)	LS	1	\$30,000.00	\$30,000.00
<b>Subtotal</b>					<b>\$567,900.00</b>
NMGR @ 7.1250%					\$40,462.88
Contingency (30%) @ 30.00%					\$170,370.00
<b>TOTAL</b>					<b>\$778,732.88</b>

**Santa Fe County**

CONCEPTUAL COST ESTIMATE (FOR ESTIMATING PURPOSES ONLY)

PROJECT LENGTH: 1.11 Miles

Horrocks Project No. NM-TR-3802-21

ROUTE / ROAD: Avenida Azul Multi-Use Trail

TYPE OF CONSTRUCTION: Multi-Use Trail Construction, Grading, Signing & Striping, and CBC Extension

PAVEMENT WIDTH: 8 feet (multi-use trail)

PAVEMENT THICKNESS: Reconstruction - 2" HMA over 4" ABC

PREPARED BY: Horrocks Engineers

Date: 2/3/22

PRICED BY: Horrocks Engineers

Date: 2/3/22

REVISED BY: Horrocks Engineers

Date: 2/15/22

**Santa Fe County**

2/15/22

Category:

Major Structures

BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
511030	STRUCTURAL CONCRETE, CLASS AA	C.Y.	60	\$650.00	\$39,000.00
540060	REINFORCING BARS GRADE 60	LB	800	\$3.00	\$2,400.00
			Subtotal		\$41,400.00
			NMGRT @	7.1250%	\$2,949.75
			Contingency (30%) @	30.00%	\$12,420.00
			TOTAL		<u>\$56,769.75</u>

**Santa Fe County**  
 CONCEPTUAL COST ESTIMATE (FOR ESTIMATING PURPOSES ONLY)

PROJECT LENGTH: 1.11 Miles

Horrocks Project No. NM-TR-3802-21  
 ROUTE / ROAD: Avenida Azul Multi-Use Trail

TYPE OF CONSTRUCTION: Multi-Use Trail Construction, Grading, Signing & Striping, and CBC Extension

PAVEMENT WIDTH: 8 feet (multi-use trail)  
 PAVEMENT THICKNESS: Reconstruction - 2" HMA over 4" ABC

PREPARED BY: Horrocks Engineers Date: 2/3/22  
 PRICED BY: Horrocks Engineers Date: 2/3/22  
 REVISED BY: Horrocks Engineers Date: 2/15/22

**Santa Fe County** **2/15/22**  
 Category:  
 Construction Signing

BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
618000	TRAFFIC CONTROL MANAGEMENT	LS	1	\$15,000.00	\$15,000.00
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	LS	1	\$5,000.00	\$5,000.00
Subtotal					\$20,000.00
NMGR @ 7.1250%					\$1,425.00
Contingency (30%) @ 30.00%					\$6,000.00
<b>TOTAL</b>					<b>\$27,425.00</b>

**Santa Fe County**

CONCEPTUAL COST ESTIMATE (FOR ESTIMATING PURPOSES ONLY)

PROJECT LENGTH: 1.11 Miles

Horrocks Project No. NM-TR-3802-21

ROUTE / ROAD: Avenida Azul Multi-Use Trail

TYPE OF CONSTRUCTION: Multi-Use Trail Construction, Grading, Signing & Striping, and CBC Extension

PAVEMENT WIDTH: 8 feet (multi-use trail)

PAVEMENT THICKNESS: Reconstruction - 2" HMA over 4" ABC

PREPARED BY: Horrocks Engineers

Date: 2/3/22

PRICED BY: Horrocks Engineers

Date: 2/3/22

REVISED BY: Horrocks Engineers

Date: 2/15/22

**Santa Fe County**

2/15/22

Category:  
Permanent Signing

BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
701000	PANEL SIGNS	S.F.	275	\$25.00	\$6,875.00
701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	L.F.	550	\$10.00	\$5,500.00
704704	HOT THERMOPLASTIC PAVEMENT MARKING 24"	L.F.	400	\$12.00	\$4,800.00
				Subtotal	\$17,175.00
				NMGRT @	7.1250% \$1,223.72
				Contingency (30%) @	30.00% \$5,152.50
				TOTAL	<u>\$23,551.22</u>

**Santa Fe County**

CONCEPTUAL COST ESTIMATE (FOR ESTIMATING PURPOSES ONLY)

PROJECT LENGTH: 1.11 Miles

Horrocks Project No. NM-TR-3802-21

ROUTE / ROAD: Avenida Azul Multi-Use Trail

TYPE OF CONSTRUCTION: Multi-Use Trail Construction, Grading, Signing & Striping, and CBC Extension

PAVEMENT WIDTH: 8 feet (multi-use trail)

PAVEMENT THICKNESS: Reconstruction - 2" HMA over 4" ABC

PREPARED BY: Horrocks Engineers

Date: 2/3/22

PRICED BY: Horrocks Engineers

Date: 2/3/22

REVISED BY: Horrocks Engineers

Date: 2/15/22

**Santa Fe County**

2/15/22

Category:

Construction Engineering

BID ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	LS	1	\$15,000.00	\$15,000.00
803000	SCHEDULE SOFTWARE	LS	1	\$1,000.00	\$1,000.00
803010	CPM TRAINING	LS	1	\$1,000.00	\$1,000.00
803020	CPM HARDWARE/EQUIPMENT	LS	1	\$1,000.00	\$1,000.00
				Subtotal	\$18,000.00
				NMGRT @	7.1250% \$1,282.50
				Contingency (30%) @	30.00% \$5,400.00
				TOTAL	<u>\$24,682.50</u>