

# Triview Northern Delivery System (October 2022)

## Biological Assessment

Prepared using IPaC

Generated by Sarah Itz (sarahitz@jdshydro.com)

October 18, 2022

The purpose of this Biological Assessment (BA) is to assess the effects of the proposed project and determine whether the project may affect any Federally threatened, endangered, proposed or candidate species. This BA is prepared in accordance with legal requirements set forth under [Section 7 of the Endangered Species Act \(16 U.S.C. 1536 \(c\)\)](#).

In this document, any data provided by U.S. Fish and Wildlife Service is based on data as of April 21, 2022.

Prepared using IPaC version 6.82.0-rc4

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# 1 Description Of The Action

## 1.1 Project Name

Triview Northern Delivery System (October 2022)

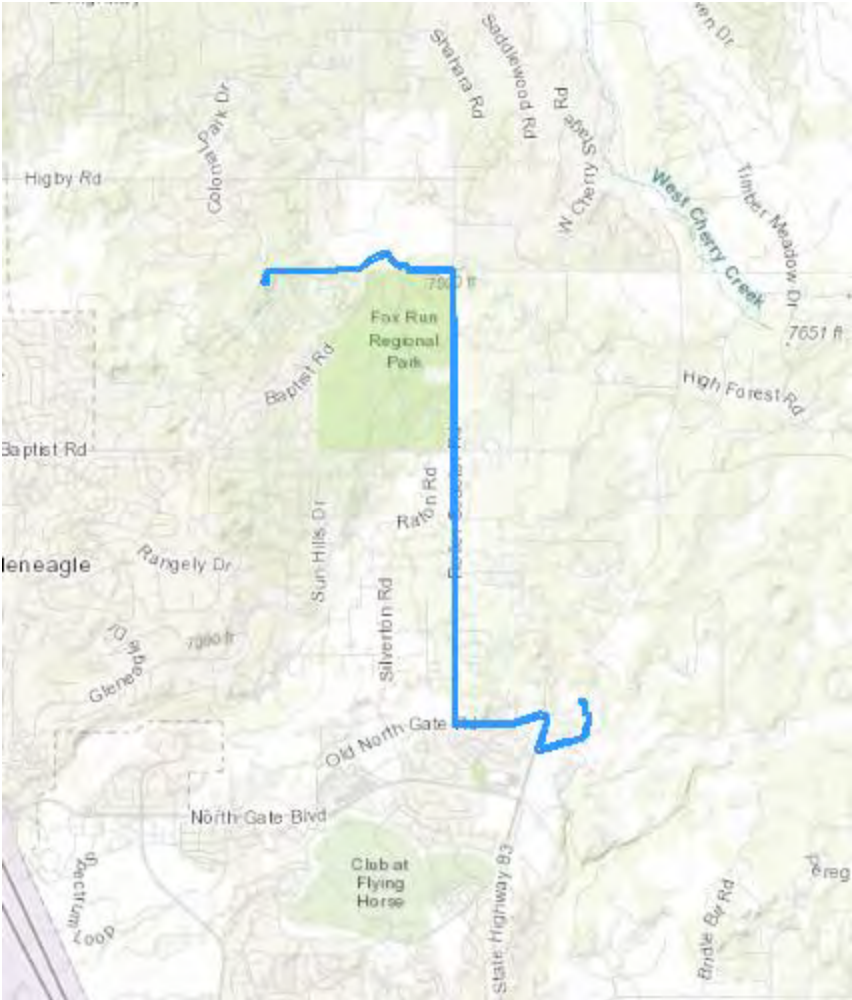
## 1.2 Executive Summary

The Northern Delivery System (NDS) is proposed to bring renewable water to northern El Paso County municipal customers. Existing infrastructure will be utilized to capture, treat, and convey water to the north end of Colorado Springs Utilities (CSU) at a location known as the CSU Highway 83 Storage Tank. The proposed NDS project will convey water from the CSU Highway 83 Storage Tank through a pump station and transmission main at which point it will be delivered to existing District storage for distribution to customers. The booster pump station will be constructed on land owned by the City of Colorado Springs and is located east of the intersection of Old Northgate Road and Highway 83. The proposed pipeline route begins at the booster pump station and proceeds west across private property and then continues west within the Old Northgate Road right of way, north within the Rollercoaster Road right of way, west within the Baptist Road right of way and private property until it reaches land within the Town of Monument jurisdiction. The project is proposed for construction by Triview Metropolitan District and Forest Lakes Metropolitan District, but the infrastructure will be sized to serve additional water suppliers in northern El Paso County that may choose to partner with the project in the future. The design flowrate for the booster pump station and 16" transmission pipeline is 4 MGD. Project Need: Triview Metropolitan District and other water suppliers in northern El Paso County are reliant on Denver Basin water. The static water level in the Denver Basin has been dropping with increased use. Additionally, there are water quality concerns as radionuclides are somewhat common in the Denver Basin in northern El Paso County. Because of these factors, the District has pursued other means of water supply. The water conveyed by the NDS will be renewable and will take pressure off of the Denver Basin. The NDS will allow water suppliers in northern El Paso County to supply water to both existing and proposed development now and into the future.

[Effect determination summary](#)

# 1.3 Project Description

## 1.3.1 Location



**LOCATION**

El Paso County, Colorado

**1.3.2 Description of project habitat**

The northern portion of the proposed waterline runs along a hiking trail with ponderosa pine (*Pinus ponderosa*) overstory and sparse grass/herbaceous understory. For the vast majority of project, the waterline would be constructed underneath the Baptist Road and Rollercoaster Road pavement. It also runs under Old North Gate Road for approximately 1,755 feet, then along the northern edge of Old North Gate Road and crosses under SH 83. The waterline then turns south and runs along the eastern edge of US 83. The proposed waterline then heads east/northeast across a mostly open grassy area to its terminus at a proposed pump station. Preliminary plans for the pump station are not yet available; however, 70% design plans for the waterline are attached. There is also a proposed 8-inch waterline connecting a new fire hydrant to the pump station for the property owner's residence located north of the existing CSU water tank and proposed pump station. There is critical habitat for the Preble's meadow jumping mouse immediately east of the proposed waterline terminus, pump station, and 8-inch waterline; however, no project construction would encroach upon the critical habitat.

**Relevant documentation**

- [UPDATED PIPELINE 70 REVISION 1 - OCTOBER 22](#)
- [UPDATED Segment AB 70Design](#)

**1.3.3 Project proponent information**

*Provide information regarding who is proposing to conduct the project, and their contact information. Please provide details on whether there is a Federal nexus.*

**Requesting Agency**

JDS Hydro Consultants

**FULL NAME**

Sarah Itz

**STREET ADDRESS**

5540 Tech Center Dr., Suite 100

**CITY**

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**STATE**

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**ZIP**

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### **1.3.4 Project purpose**

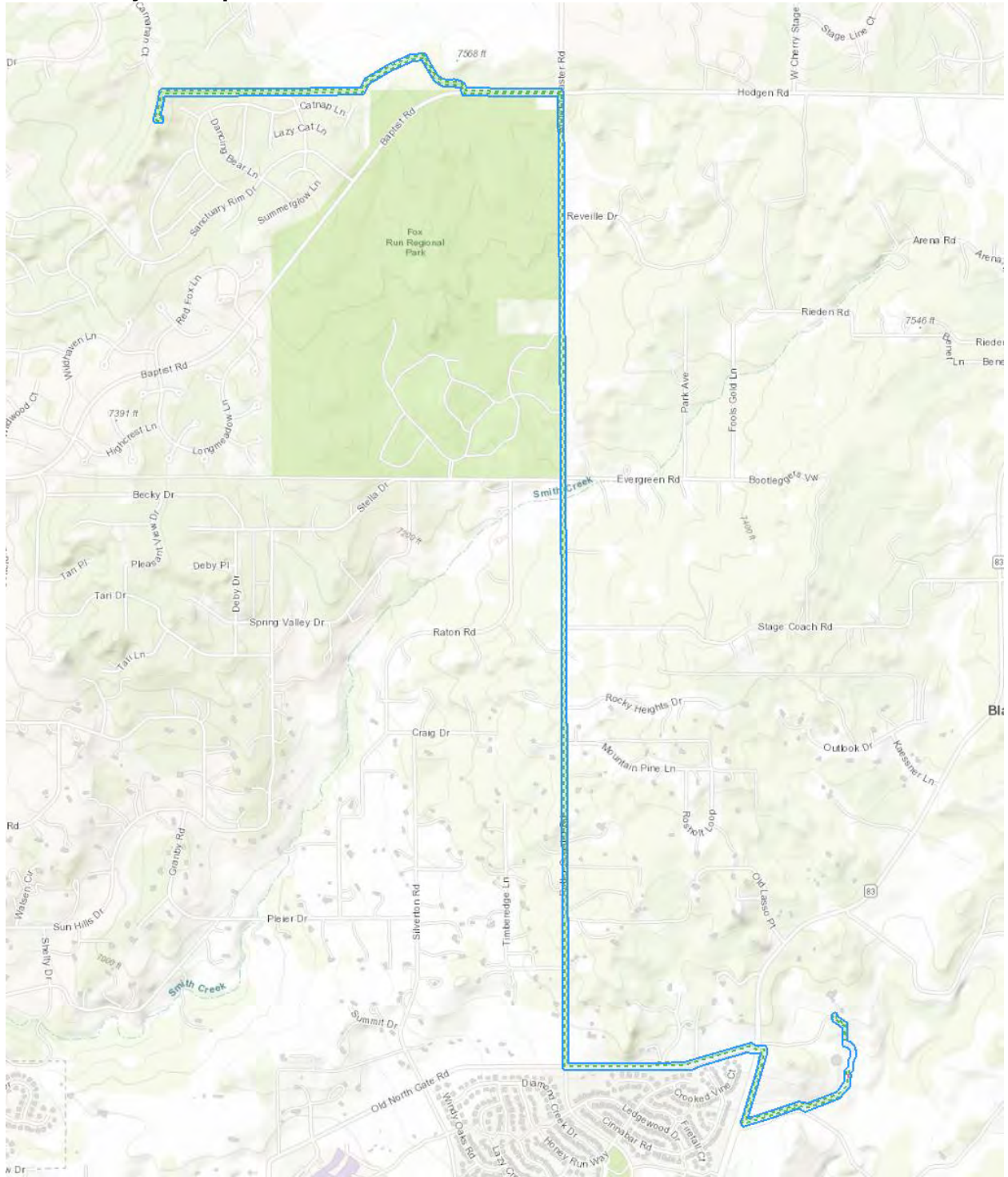
The purpose of the project is to bring renewable water to northern areas of El Paso County which will reduce reliance on non-renewable groundwater that is decreasing in quantity and quality. The project will ultimately improve water quality by providing clean, renewable treated water. It will also improve fire protection for areas along the waterline route including Fox Run Regional Park.

### **1.3.5 Project type and deconstruction**

This project is a proposed underground waterline project.



### 1.3.5.1 Project map



**LEGEND**



Project footprint



Proposed booster pump station: New pump station



Proposed waterline: Install below-ground pipeline

### 1.3.5.2 install below-ground pipeline

**Activity start date**

January 02, 2023

**Activity end date**

December 31, 2025

**Stressors**

PLANT FEATURES

- [Change in vegetation structure](#)

ENVIRONMENTAL PROCESSES

- [Change in hydrology](#)

**Description**

Impacts to the areas surrounding the proposed waterline are largely limited to temporary impacts during construction. The waterline route was designed to avoid as many trees as possible, but some may need to be removed along the northernmost stretch of the project. Re-vegetation with a native grass seed mix will be done on the areas that are open-cut.

### 1.3.5.3 new pump station

**Activity start date**

January 02, 2023

**Activity end date**

December 31, 2025

**Stressors**

HUMAN FEATURES

- [Increase in human structures](#)

**Description**

The proposed pump station will be located on CSU property adjacent to the Highway 83 Storage Tank. This parcel is situated outside of the City of Colorado Springs. The pump station will be sized to convey up to 4 MGD or 2,778 gpm and deliver water at the pressures needed by Triview and other potential partners. The footprint of the pump station is approximately 1,500 square feet.

### 1.3.6 Anticipated environmental stressors

Describe the anticipated effects of your proposed project on the aspects of the land, air and water that will occur due to the activities above. These should be based on the activity deconstructions done in the previous section and will be used to inform the action area.

#### 1.3.6.1 Plant Features

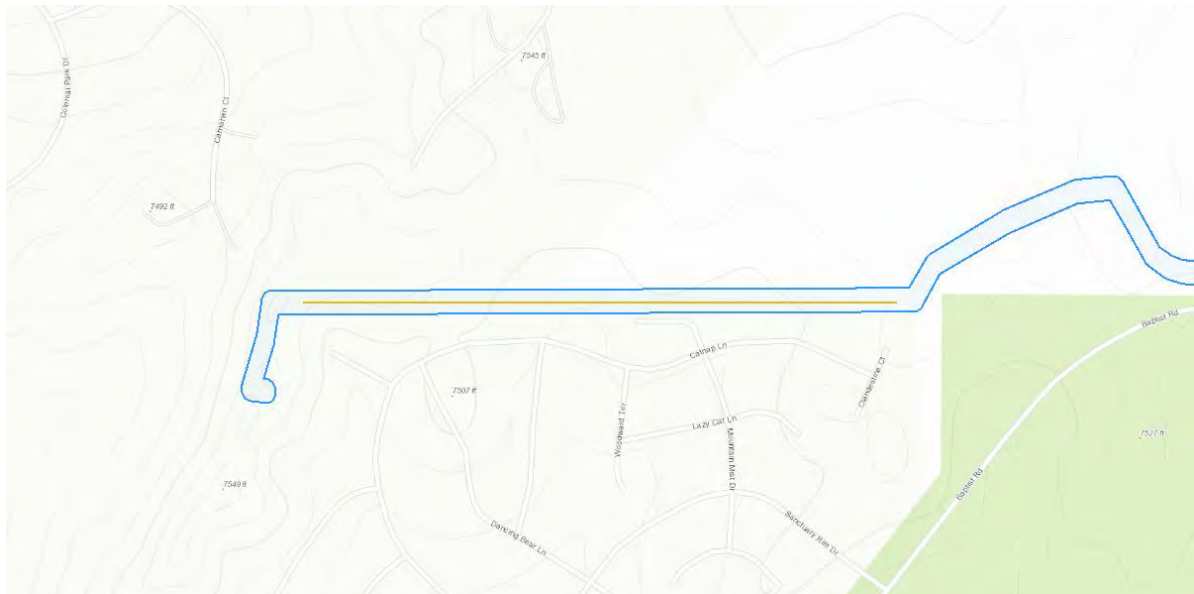
Individuals from the Plantae kingdom, such as trees, shrubs, herbs, grasses, ferns, and mosses. This feature also includes products of plants (e.g., nectar, flowers, seeds, etc.).

##### 1.3.6.1.1 Change in vegetation structure


###### ANTICIPATED MAGNITUDE


Most of the proposed waterline will be installed under Baptist Road, Rollercoaster Road, and Old North Gate Road. No trees would be affected through this stretch of the project. In the other areas, the waterline was designed to avoid as many trees as possible. Several ponderosa pine trees may need to be removed in the northern section of the project. However, these trees are not unique to the area; there are many more that will remain unaffected.

###### STRESSOR LOCATION



LEGEND

 Project footprint

 Stressor location

#### CONSERVATION MEASURES

- [Mature tree avoidance](#)

#### STRUCTURES AND ACTIVITIES

- [Install below-ground pipeline](#)

### **1.3.6.2 Aquatic Features**

Bodies of water on the landscape, such as streams, rivers, ponds, wetlands, etc., and their physical characteristics (e.g., depth, current, etc.). This feature includes the groundwater and its characteristics. Water quality attributes (e.g., turbidity, pH, temperature, DO, nutrients, etc.) should be placed in the Environmental Quality Features.

### **1.3.6.3 Human Features**

Man-made Structures on the landscape (e.g., roads, trails, buildings, bridges, farm fields, etc.).

### **1.3.6.3.1 Increase in human structures**


#### **ANTICIPATED MAGNITUDE**


The proposed pump station will be located on CSU property adjacent to the Highway 83 Storage Tank. This parcel is situated outside of the City of Colorado Springs. The pump station will be sized to convey up to 4 MGD or 2,778 gpm and deliver water at the pressures needed by Triview and other potential partners. The footprint of the pump station is approximately 1,500 square feet.

#### **STRESSOR LOCATION**



LEGEND

 Project footprint

 Stressor location



#### CONSERVATION MEASURES

*No conservation measures for this stressor*

#### STRUCTURES AND ACTIVITIES

- [New pump station](#)

### **1.3.6.4 Environmental Processes**

Abiotic processes that occur in the natural environment (e.g., erosion, precipitation, flood frequency, photoperiod, etc.).

#### **1.3.6.4.1 Change in hydrology**

##### ANTICIPATED MAGNITUDE

This stressor is not expected to occur; the following explanation has been provided:

The proposed waterline crosses an unnamed tributary to Smith Creek and Smith Creek; however, at these locations, the waterline would be constructed under Rollercoaster Road. On either side of Rollercoaster Road, these two waters do not contain Ordinary High Water Marks (OHWM) and appear to be swales.

Some of the proposed waterline would be constructed via boring, resulting in very little impacts to existing conditions. Some of the proposed waterline would be constructed via open trench, which would temporarily impact up to 20 feet to either side of the waterline. These impacted areas would be returned to their pre-existing topographies/elevations after construction is complete. No change in surface hydrology is expected.

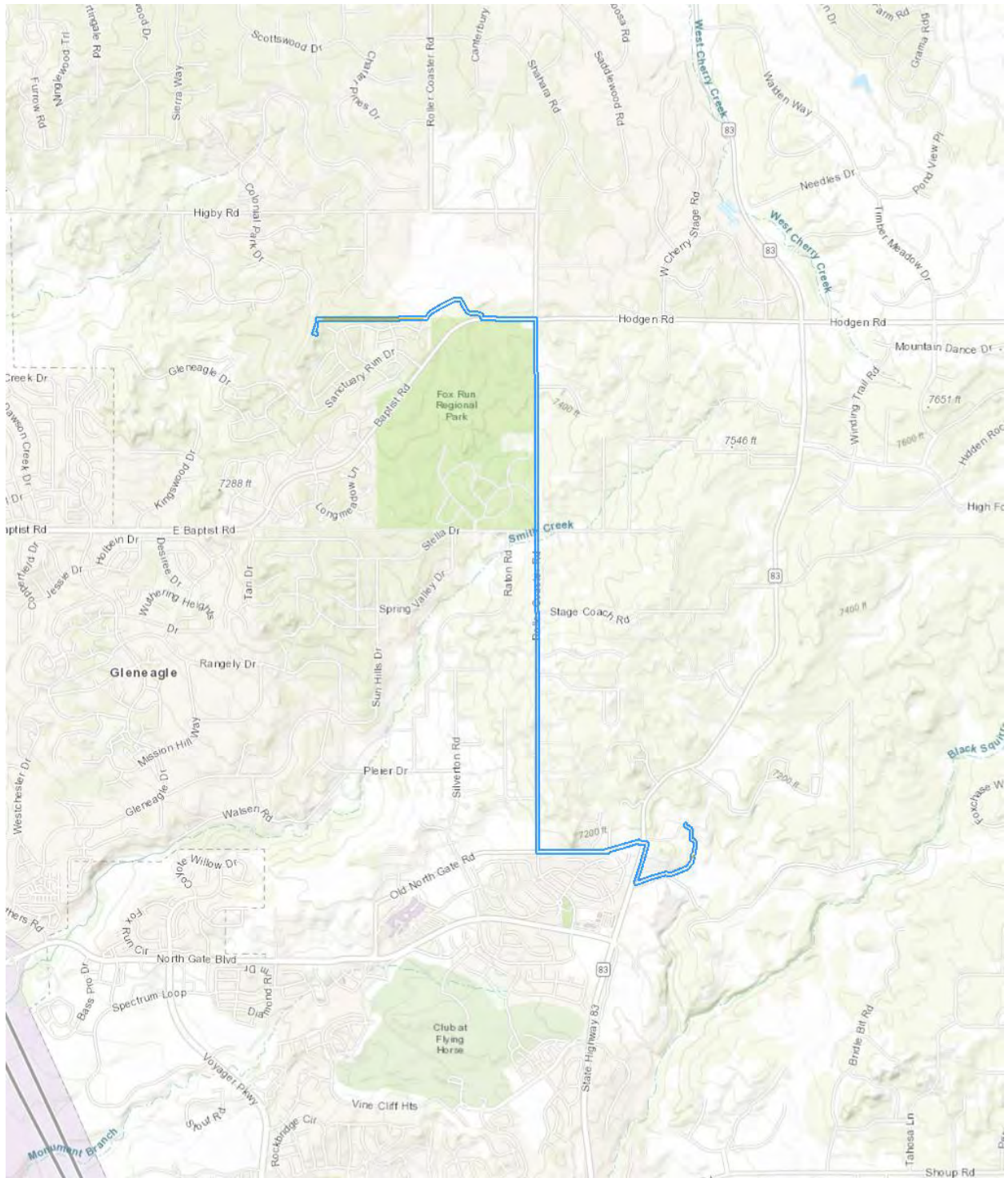
##### CONSERVATION MEASURES

- [Return impacted areas to pre-construction topographies](#)

##### STRUCTURES AND ACTIVITIES

- [Install below-ground pipeline](#)

# 1.4 Action Area



## 1.5 Conservation Measures

### 1.5.1 mature tree avoidance

#### Description

The northwestern portion of the proposed waterline runs along an existing hike/bike trail, bends to the northeast, then to the southeast before running under Baptist Road. This route was designed to minimize impacts to mature trees as much as possible. A combination of boring and open trenching would be used along this stretch due to hilly topography and to avoid impacting trees. The remainder of the line would be installed either under existing roadways or through open grassy areas.

#### Stressors

- [Change in vegetation structure](#)

### 1.5.2 re-vegetate with native grass seed mix

#### Description

The El Paso County Conservation District native seed mix will be used to re-vegetate disturbed areas. This includes big bluestem (20%), blue grama grass (10%), green needlegrass (10%), western wheatgrass (20%), sideoats grama grass (10%), switchgrass (10%), prairie sandreed (10%), and yellow indiagrass (10%).

#### Resource needs

- [grass \(Percent ground cover that is preferred by the PMJM is close to 100%. Densely vegetated areas of grasses, forbs, and shrubs is needed for foraging.\)](#)

### 1.5.3 return impacted areas to pre-construction topographies

#### Description

Most of the project lies within existing roadways. In the remaining areas, disturbed areas will be returned to pre-construction topographies.

#### Stressors

- [Change in hydrology](#)

## 1.6 Prior Consultation History

No previous USFWS consultation for this project has been completed.

## **1.7 Other Agency Partners And Interested Parties**

We are preparing a 1041 Application for El Paso County approval:

El Paso County Planning and Community Development Kevin Mastin, Interim Executive Director 2880 International Circle, Suite 110 Colorado Springs, CO 80910 (719) 520-6300 [plnweb@elpasoco.com](mailto:plnweb@elpasoco.com) (<mailto:plnweb@elpasoco.com>)

The pipeline will be added to Triview Metropolitan District's Water System Monitoring plan, which is reviewed and regulated by the Colorado Department of Public Health & Environment (CDPHE) but no formal design review is required by them.

## **1.8 Other Reports And Helpful Information**

Please see attached overview map of the project.

### ***Relevant documentation***

- [Triview overview map](#)

## 2 Species Effects Analysis

*This section describes, species by species, the effects of the proposed action on listed, proposed, and candidate species, and the habitat on which they depend. In this document, effects are broken down as direct interactions (something happening directly to the species) or indirect interactions (something happening to the environment on which a species depends that could then result in effects to the species).*

*These interactions encompass effects that occur both during project construction and those which could be ongoing after the project is finished. All effects, however, should be considered, including effects from direct and indirect interactions and cumulative effects.*

### 2.1 Eastern Black Rail

***This species has been excluded from analysis in this environmental review document.***

#### **Relevant documentation**

Sarah Itz, JDS Hydro biologist, completed a habitat assessment along the waterline route in October 2021 and April 2022.

#### **Justification for exclusion**

Eastern Black Rails nest in marshes and wet meadows across North America, including riparian marshes, coastal prairies, saltmarshes, and impounded wetlands. All of its habitats have stable shallow water, usually just 1.2 inches deep at most. This habitat type is not present along the proposed waterline route. No marshes or wetlands, or stable shallow water areas were identified during the field investigations.

### 2.2 Gray Wolf

***This species has been excluded from analysis in this environmental review document.***

#### **Relevant documentation**

Sarah Itz, JDS Hydro biologist, performed a habitat assessment along the proposed waterline route in October 2021 and April 2022.

#### **Justification for exclusion**

The gray wolf inhabits wilderness and remote areas. The proposed waterline is located within an urban area of El Paso County. This species is not expected to occur in the project area and would not be affected by the project.

## **2.3 Greenback Cutthroat Trout**

*This species has been excluded from analysis in this environmental review document.*

### **Relevant documentation**

Sarah Itz, JDS Hydro biologist, performed a habitat assessment along the proposed waterline route in October 2021 and April 2022.

### **Justification for exclusion**

No habitat for this species exists in the project area. The proposed waterline crosses Smith Creek and an unnamed tributary of Smith Creek; however, both are ephemeral and do not regularly contain flowing water. Additionally, at the crossings of Smith Creek and its tributary, the waterline would be constructed underneath Rollercoaster Road. No effects to this species would occur.

## **2.4 Monarch Butterfly**

### **2.4.1 Status of the species**

*This section should provide information on the species' background, its biology and life history that is relevant to the proposed project within the action area that will inform the effects analysis.*

#### **2.4.1.1 Legal status**

The Monarch Butterfly is federally listed as 'Candidate' and additional information regarding its legal status can be found on the [ECOS species profile](#).

#### **2.4.1.2 Recovery plans**

Available recovery plans for the Monarch Butterfly can be found on the [ECOS species profile](#).

### **2.4.1.3 Life history information**

Note - the monarch is a candidate species and not yet listed or proposed for listing. Consultation with U.S. Fish and Wildlife Service under section 7 of the Endangered Species Act is not required for candidate species, like the monarch. We encourage agencies, however, to take advantage of any opportunity they may have to conserve the species.

For information on monarch conservation, visit <https://www.fws.gov/savethemonarch/>, [http://www.mafwa.org/?page\\_id=2347](http://www.mafwa.org/?page_id=2347), and, for the West, <https://wafwa.org/committees-working-groups/monarch-working-group/>.

Adult monarch butterflies are large and conspicuous, with bright orange wings surrounded by a black border and covered with black veins. The black border has a double row of white spots, present on the upper side of the wings. Adult monarchs are sexually dimorphic, with males having narrower wing venation and scent patches. The bright coloring of a monarch serves as a warning to predators that eating them can be toxic.

During the breeding season, monarchs lay their eggs on their obligate milkweed host plant (primarily *Asclepias* spp.), and larvae emerge after two to five days. Larvae develop through five larval instars (intervals between molts) over a period of 9 to 18 days, feeding on milkweed and sequestering toxic chemicals (cardenolides) as a defense against predators. The larva then pupates into a chrysalis before emerging 6 to 14 days later as an adult butterfly. There are multiple generations of monarchs produced during the breeding season, with most adult butterflies living approximately two to five weeks; overwintering adults enter into reproductive diapause (suspended reproduction) and live six to nine months.

In many regions where monarchs are present, monarchs breed year-round. Individual monarchs in temperate climates, such as eastern and western North America, undergo long-distance migration, and live for an extended period of time. In the fall, in both eastern and western North America, monarchs begin migrating to their respective overwintering sites. This migration can take monarchs distances of over 3,000 km and last for over two months. In early spring (February-March), surviving monarchs break diapause and mate at the overwintering sites before dispersing. The same individuals that undertook the initial southward migration begin flying back through the breeding grounds and their offspring start the cycle of generational migration over again.

#### ***Identified resource needs***

Nectar

Nectar from any blooming flower

#### **2.4.1.4 Conservation needs**

Milkweed is an essential feature of quality monarch habitat. Not only does native milkweed offer a food source for monarch larvae, but it provides nectar for a variety of other pollinators and also provides habitat for many other organisms. Unlike larvae that rely only on milkweed to survive, adult monarchs use diverse nectar sources for food. Nectar plants are a key component to prime habitat for monarchs and other pollinators.

Environmentally friendly management practices are important for successful monarch conservation. These land management activities can help to reduce the effects of habitat disruption and can promote native growth in a habitat. Replacing non-native species with native species encourages a healthy diversity of plants and animals in an ecosystem and provides more ecological benefits. Some management strategies important to monarch habitat conservation include prescribed burning, timely mowing, native seed collection, native planting, and exotic species control.

#### **2.4.2 Environmental baseline**

*The environmental baseline describes the species' health **within the action area only** at the time of the consultation, and does not include the effects of the action under review. Unlike the species information provided above, the environmental baseline is at the scale of the Action area.*

##### **2.4.2.1 Species presence and use**

Most of the proposed project lies within paved roadways (Baptist Road and Roller Coaster Road). However, in the southern portion of the project, the waterline would run below mowed/maintained right-of-way areas and an open grassy area near its terminus at the existing water tank site. These areas will likely contain blooming wildflowers in the summer and could provide foraging habitat for the monarch butterfly. In the northern portion of the project, the understory under the ponderosa pine trees is sparse and would not likely contain many blooming flowers. During construction of the project, monarch butterflies would likely flee from construction activities and noise. It is assumed that the project may affect, but is unlikely to adversely affect this species.

#### ***Relevant documentation***

##### **2.4.2.2 Species conservation needs within the action area**

Species conservation needs for survival and recovery of the Monarch butterfly within the action area are minimal. A 40-foot-wide area along the proposed waterline would be temporarily impacted, but would eventually re-establish with wildflowers. As the Monarch butterfly is a candidate species, no recovery plan is available.



### 2.4.2.3 Habitat condition (general)

#### nectar (Nectar from any blooming flower)

Scattered wildflowers were observed within the grassy areas of the project action area. The quantity of wildflowers is relatively low compared to the grasses they grow among, though their quality is good. Flowering species such as asters, dandelions, mullien, and daisies were observed in the project action area.

### 2.4.2.4 Influences

Much of the action area is developed into roadway and hike/bike trail facilities that have reduced native vegetation areas. Due to climate change, Colorado is becoming drier and may not have as many wildflowers as previous years.

### 2.4.2.5 Additional baseline information

No additional baseline information

## 2.4.3 Effects of the action

*This section considers and discusses all effects on the listed species that are caused by the proposed action and are reasonably certain to occur, including the effects of other activities that would not occur but for the proposed action.*

### 2.4.3.1 Indirect interactions

RESOURCE NEED	STRESSORS	CONSERVATION MEASURES	AMOUNT OF RESOURCE IMPACTED	INDIVIDUALS AFFECTED
Nectar (nectar from any blooming flower)	<a href="#">Increase in human structures</a>		There are likely wildflowers in the area to be developed into a pump station. However, that area is mostly grass, so the amount of wildflowers lost would be considered minimal.	<i>No individuals will be affected</i> Monarch butterflies would forage elsewhere for nectar.

### 2.4.3.2 Direct interactions

DIRECT IMPACT	CONSERVATION MEASURES	INDIVIDUALS IMPACTED	IMPACT EXPLANATION
Displacement		Yes	Adult monarch butterflies that would normally feed on the nectar from the wildflowers in the direct construction area of the waterlines and pump station would be minimally displaced to other areas to feed.

### 2.4.4 Cumulative effects

The Triview Northern Delivery System will provide water to new areas of northeastern Colorado Springs that are to be developed into residential neighborhoods. Areas that currently contain foraging habitat for the Monarch butterfly would be converted to residential use. This is a cumulative impact to the species.

### 2.4.5 Discussion and conclusion

**Determination: NLAA**

#### Compensation measures

After installation of the waterlines, all disturbed areas will be re-seeded with native grasses. Wildflowers are expected to re-establish naturally in disturbed areas, thus restoring those areas back to potential Monarch butterfly foraging habitat.

## 2.5 Pallid Sturgeon

*This species has been excluded from analysis in this environmental review document.*

#### Relevant documentation

Sarah Itz, JDS Hydro biologist, performed a habitat assessment along the proposed waterline route in October 2021 and April 2022.

#### Justification for exclusion

No habitat for this species exists in the project area. The only surface water resources along the proposed waterline are ephemeral. No effects to this species would occur.

## **2.6 Piping Plover**

*This species has been excluded from analysis in this environmental review document.*

### **Relevant documentation**

Sarah Itz, JDS Hydro biologist, performed a habitat assessment along the proposed waterline route in October 2021 and April 2022.

### **Justification for exclusion**

Piping plover habitat includes sandy lakeshore beaches, sandbars within riverbeds or even sandy wetland pastures. An important aspect of this habitat is that of sparse vegetation. No such habitat exists in the project area. This project will not affect this species.

## **2.7 Preble's Meadow Jumping Mouse**

### **2.7.1 Status of the species**

*This section should provide information on the species' background, its biology and life history that is relevant to the proposed project within the action area that will inform the effects analysis.*

#### **2.7.1.1 Legal status**

The Preble's Meadow Jumping Mouse is federally listed as 'Threatened' and additional information regarding its legal status can be found on the [ECOS species profile](#).

#### **2.7.1.2 Recovery plans**

Available recovery plans for the Preble's Meadow Jumping Mouse can be found on the [ECOS species profile](#).

### **2.7.1.3 Life history information**

The Preble's meadow jumping mouse (Preble's or PMJM) is a small mammal approximately 9 inches in length with large hind feet adapted for jumping, a long bicolored tail (which accounts for 60% of its length), and a distinct dark stripe down the middle of its back which is bordered on either side by gray to orange-brown fur. To evade predators, the mouse can jump up to three feet.

#### ***Identified resource needs***

##### **Canopy cover**

Tree and shrub cover is needed for hiding from predators. size of cover needed by the PMJM is assumed to be variable. quality and quantity of cover is likely to be variable as well. location of cover needed is along the drainages/creeks in the front range.

##### **Grass**

Percent ground cover that is preferred by the PMJM is close to 100%. densely vegetated areas of grasses, forbs, and shrubs is needed for foraging.

##### **Streams**

The PMJM appears to prefer to stay within 10 yards of a water source, typically a river, stream, or tributary. perennial waters are important for this species.

### **2.7.1.4 Conservation needs**

Conservation needs of the Preble's meadow jumping mouse includes conservation of suitable habitat for the mouse, and especially critical habitat for the mouse. More information on the conservation needs can be found in the Recovery Plan for the Preble's meadow jumping mouse dated August 28, 2018 ([https://ecos.fws.gov/docs/recovery\\_plan/Final\\_Draftpreblesrecoveryplan\\_10032018\\_signed.pdf](https://ecos.fws.gov/docs/recovery_plan/Final_Draftpreblesrecoveryplan_10032018_signed.pdf)) ([https://ecos.fws.gov/docs/recovery\\_plan/Final\\_Draftpreblesrecoveryplan\\_10032018\\_signed.pdf](https://ecos.fws.gov/docs/recovery_plan/Final_Draftpreblesrecoveryplan_10032018_signed.pdf)).

### **2.7.2 Environmental baseline**

*The environmental baseline describes the species' health **within the action area only** at the time of the consultation, and does not include the effects of the action under review. Unlike the species information provided above, the environmental baseline is at the scale of the Action area.*

### **2.7.2.1 Species presence and use**

Habitat for this species exists at the southern end of the proposed waterline. There is critical habitat for the Preble's meadow jumping mouse immediately east of the southern terminus of the waterline along two unnamed tributaries to Black Squirrel Creek. The proposed waterline and 20-foot construction impact area on either side of the proposed waterline remain outside the critical habitat area. However, it is possible that the Preble's meadow jumping mouse could forage outside of the critical habitat at times. It is currently unknown when construction of this portion of the waterline would occur. If it needs to be in the winter months when the Preble's meadow jumping mouse is hibernating, coordination between the owner of the project (Triview Metropolitan District), the project biologist, and project engineers will be conducted to determine if that is feasible. It is assumed that the project may affect, but is unlikely to adversely affect this species.

### ***Relevant documentation***

### **2.7.2.2 Species conservation needs within the action area**

The southern end of the action area crosses open, grassy areas that could provide foraging habitat for the Preble's meadow jumping mouse. However, at the nearest, the action area is approximately 150 yards west of the presumably occupied riparian corridor along the Black Squirrel Creek tributary. It is unlikely that the action area contains species-specific conservation needs for survival and recovery. Impacts to the action area would be temporary (with the exception of the proposed pump station), and all temporarily disturbed areas would be re-seeded with native grasses, thus returning it to potentially suitable foraging habitat for the mouse.

### **2.7.2.3 Habitat condition (general)**

**[grass \(Percent ground cover that is preferred by the PMJM is close to 100%. Densely vegetated areas of grasses, forbs, and shrubs is needed for foraging.\)](#)**

The action area east of SH 83 contains nearly 100% grass and herbaceous cover. Species such as grama grass, yucca, curly mesquite, dandelion, aster, mullein, bluestem, western ragweed, and smooth brome were observed in this area.

### ***Supporting documentation***

- [UPDATED Triview waters map for IPaC](#)
- [UPDATED Triview crit hab map - zoomed in](#)
- [UPDATED Triview crit hab map](#)
- [IMG\\_5402](#)
- [IMG\\_5400](#)

**2.7.2.4 Influences**

According to the Recovery Plan (2018), Preble’s mouse populations face continued threats due to loss and fragmentation of their habitat from human land uses, including urban, suburban, and recreational development; highway and bridge construction; water development; instream changes due to increased runoff and flood control efforts; higher peak and sustained flows in urban areas leading to channel incision; sand and gravel mining; and overgrazing. These human land use activities affect the Preble’s mouse by directly destroying its protective cover, nests, food resources, and hibernation sites; disrupting behavior; or acting as a barrier to movement. Most of these activities have occurred in the past and are currently occurring in and near areas of suitable Preble’s mouse habitat, especially in north and eastern Colorado Springs.

Additionally, Colorado and Wyoming are becoming drier over the years due to climate change which would likely affect streams along the Front Range. This may in turn affect the Preble’s mouse, as they require perennial waterbodies.

**2.7.2.5 Additional baseline information**

None

**2.7.3 Effects of the action**

*This section considers and discusses all effects on the listed species that are caused by the proposed action and are reasonably certain to occur, including the effects of other activities that would not occur but for the proposed action.*

**2.7.3.1 Indirect interactions**

RESOURCE NEED	STRESSORS	CONSERVATION MEASURES	AMOUNT OF RESOURCE IMPACTED	INDIVIDUALS AFFECTED
<p>Canopy cover (tree and shrub cover is needed for hiding from predators. size of cover needed by the PMJM is assumed to be variable. quality and quantity of cover is likely to be variable as well. location of cover needed is along the drainages/creeks in the front range. )</p>			<p><i>This resource is not present in the action area</i>                      The action area does not contain riparian habitat that the Preble’s meadow jumping mouse needs to hide from predators. The closest riparian corridor is along the Black Squirrel Creek tributary approximately 150 yards east of the southern terminus of the project. Smith Creek and its tributary do not</p>	<p><i>There will be no impacts to this resource, so no individuals will be affected.</i></p>

RESOURCE NEED	STRESSORS	CONSERVATION MEASURES	AMOUNT OF RESOURCE IMPACTED	INDIVIDUALS AFFECTED
			contain riparian vegetation in the action area.	
Grass (percent ground cover that is preferred by the PMJM is close to 100%. densely vegetated areas of grasses, forbs, and shrubs is needed for foraging. )	<a href="#">Change in vegetation structure</a>	<a href="#">Re-vegetate with native grass seed mix</a>	Temporary impacts to grasses during construction of the project. Disturbed areas will be re-seeded with native grass seed mix.	If Preble's meadow jumping mouse is present in the action when construction begins, it might be harmed or killed. However, it would likely flee the area when it hears machinery and humans in the vicinity. Additionally, the mouse is largely nocturnal and construction would be done during the day, therefore detrimental incidents would be unlikely.
Streams (the PMJM appears to prefer to stay within 10 yards of a water source, typically a river, stream, or tributary. perennial waters are important for this species. )			<b><i>This resource is not present in the action area</i></b> No perennial waterbodies are located in the action area. Smith Creek and its unnamed tributary are ephemeral. The unnamed tributary to Black Squirrel Creek lies east of the action area and will not be affected by the project.	<b><i>There will be no impacts to this resource, so no individuals will be affected.</i></b>

### 2.7.3.2 Direct interactions

DIRECT IMPACT	CONSERVATION MEASURES	INDIVIDUALS IMPACTED	IMPACT EXPLANATION
Crushing		Yes	It is unlikely that any Preble's meadow jumping mouse would be crushed by machinery, however it could happen if individuals are in the action area when construction begins. Mice will likely flee from noise and construction/ human activities. Additionally, construction would occur during the day when the mouse is sleeping (this species is nocturnal).
Disturbance		Yes	Foraging behavior of Preble's meadow jumping mouse may be affected during construction of the project. The mice will likely forage elsewhere, away from construction noise and activities.



DIRECT IMPACT	CONSERVATION MEASURES	INDIVIDUALS IMPACTED	IMPACT EXPLANATION
Injury		Yes	It is unlikely that any Preble's meadow jumping mouse would be injured by machinery, however it could happen if individuals are in the action area when construction begins. Mice will likely flee from noise and construction/ human activities.
Stress		Yes	Nearby construction noise could be stressful to any nearby Preble's meadow jumping mice. It may cause them to alter normal activities or move away from the noise.

**2.7.4 Cumulative effects**

The Triview Northern Delivery System will provide water to new areas of northeastern Colorado Springs that are to be developed into residential neighborhoods. Increased development and impervious cover could detrimentally impact the Preble's meadow jumping mouse. Foraging areas alongside streams could be converted into urban uses. Flow regime in local streams and tributaries may change as a result of increased impervious cover. The addition of new roads and streets could fragment mouse habitat. These would be considered cumulative impacts to the species.

## 2.7.5 Discussion and conclusion

**Determination: NLAA**

### **Compensation measures**

The contractor will be made aware of the possible presence of Preble's meadow jumping mouse in the vicinity of the southern end of the proposed waterlines and pump station, and to avoid impacts to the mouse if seen. As this species is mostly nocturnal, it is unlikely that the mouse would occur in the action area during daylight hours when construction is occurring.

### **Relevant documentation**

- [UPDATED Triview crit hab map - zoomed in](#)

## 2.8 Ute Ladies'-Tresses

*This species has been excluded from analysis in this environmental review document.*

### **Relevant documentation**

Sarah Itz, JDS Hydro biologist, performed a habitat assessment along the proposed waterline route in October 2021 and April 2022.

### **Justification for exclusion**

Ute ladies'-tresses occur along riparian edges, gravel bars, old oxbows, high flow channels, and moist to wet meadows along perennial streams. It typically occurs in stable wetland and seepy areas associated with old landscape features within historical floodplains of major rivers. Also found in wetland and seepy areas near freshwater lakes or springs. No such habitat exists in the project area. Therefore, the project will not affect this species.

## **2.9 Western Prairie Fringed Orchid**

*This species has been excluded from analysis in this environmental review document.*

### **Relevant documentation**

Sarah Itz, JDS Hydro biologist, performed a habitat assessment along the proposed waterline route in October 2021 and April 2022.

### **Justification for exclusion**

This species grows in moist tallgrass prairies and sedge meadows. These habitat assemblages do not exist in the project area. Therefore, the project will not affect this species.

## **2.10 Whooping Crane**

*This species has been excluded from analysis in this environmental review document.*

### **Relevant documentation**

Habitat assessments of the proposed project area were conducted in October 2021 and April 2022 by Sarah Itz, JDS Hydro biologist.

### **Justification for exclusion**

Whooping Cranes have been known to migrate through Colorado on their way to nesting areas in Canada in the summer and on their way back to the Gulf Coast in the winter. Stopover habitat includes shallow water wetlands, ponds, lakes, and rivers. No such habitat exists in the action area for this project. No effects to the Whooping Crane would occur as a result of the project.

## 3 Critical Habitat Effects Analysis

### 3.1 Preble's Meadow Jumping Mouse Critical Habitat

#### 3.1.1 Critical habitat description

Critical habitat has been designated for the 'Preble's Meadow Jumping Mouse', the final rule can be found at [ECOS species profile](#). The rule outlines required physical and biological features needed for critical habitat to be present.

#### 3.1.2 Environmental baseline

*The environmental baseline describes the condition of the critical habitat within the action area only at the time of the consultation, and does not include the effects of the action under review.*

##### 3.1.2.1 Condition of physical and biological features

You indicated that Preble's Meadow Jumping Mouse critical habitat is present in your action area it in the following manner.

There is no riparian vegetation in the action area. However, there is nearly 100% good quality grass/herbaceous cover that could be used as foraging habitat in the southern portion of the project. Please see the attached map for a zoomed-in view of the proposed project near the critical habitat.

##### **Relevant documentation**

- [Triview crit hab map - zoomed in](#)
- [Triview crit hab map](#)

##### 3.1.2.2 Conservation needs of physical and biological features

No special management or protection needs of the physical and biological features of Preble's Meadow Jumping Mouse within the action area were identified. The grassy areas that would be disturbed by construction will be re-seeded with native grass seed mix and are expected to return to foraging habitat in subsequent years.

### **3.1.2.3 Influences**

Influences on Preble's mouse critical habitat are similar to influences on the Preble's mouse itself: threats due to loss and fragmentation from human land uses, including urban, suburban, and recreational development; highway and bridge construction; water development; instream changes due to increased runoff and flood control efforts; higher peak and sustained flows in urban areas leading to channel incision; sand and gravel mining; and overgrazing. These human land use activities affect the Preble's mouse critical habitat by directly destroying its protective cover, nests, food resources, and hibernation sites; disrupting Preble's mouse behavior; or acting as a barrier to movement. Most of these activities have occurred in the past and are currently occurring in and near critical habitat areas, especially in north and eastern Colorado Springs and Monument.

Additionally, Colorado and Wyoming are becoming drier over the years due to climate change which would likely affect streams along the Front Range. This may in turn affect the Preble's mouse critical habitat, as perennial waterbodies and riparian vegetation are important components.

### **3.1.2.4 Additional baseline information**

None

### **3.1.3 Effects of the action**

No stressors are expected to impact Preble's Meadow Jumping Mouse critical habitat.

### **3.1.4 Cumulative effects**

The Triview Northern Delivery System will provide water to new areas of northeastern Colorado Springs that are to be developed into residential neighborhoods. Increased development and impervious cover could detrimentally impact Preble's meadow jumping mouse critical habitat. Some developers may not know that critical habitat is protected by law and inadvertently impact it while developing adjacent properties. Flow regime in local streams and tributaries may change as a result of increased impervious cover. The addition of new roads and streets could fragment critical habitat.

### **3.1.5 Discussion and conclusion**

**Determination: NLAA**

#### **Relevant documentation**

- [UPDATED Triview crit hab map - zoomed in](#)

# 4 Summary Discussion, Conclusion, And Effect Determinations

## 4.1 Effect Determination Summary

SPECIES (COMMON NAME) OR CRITICAL HABITAT	SCIENTIFIC NAME	LISTING STATUS	PRESENT IN ACTION AREA	EFFECT DETERMINATION
<a href="#">Eastern Black Rail</a>	<i>Laterallus jamaicensis</i> ssp. <i>jamaicensis</i>	Threatened	No	NE
<a href="#">Gray Wolf</a>	<i>Canis lupus</i>	Endangered	No	NE
<a href="#">Greenback Cutthroat Trout</a>	<i>Oncorhynchus clarkii</i> <i>stomias</i>	Threatened	No	NE
<a href="#">Monarch Butterfly</a>	<i>Danaus plexippus</i>	Candidate	Yes	NLAA
<a href="#">Pallid Sturgeon</a>	<i>Scaphirhynchus albus</i>	Endangered	No	NE
<a href="#">Piping Plover</a>	<i>Charadrius melodus</i>	Threatened	No	NE
<a href="#">Preble's Meadow Jumping Mouse</a>	<i>Zapus hudsonius</i> <i>preblei</i>	Threatened	Yes	NLAA
<a href="#">Ute Ladies'-tresses</a>	<i>Spiranthes diluvialis</i>	Threatened	No	NE
<a href="#">Western Prairie Fringed Orchid</a>	<i>Platanthera praeclara</i>	Threatened	No	NE
<a href="#">Whooping Crane</a>	<i>Grus americana</i>	Endangered	No	NE
<a href="#">Preble's Meadow Jumping Mouse critical habitat</a>	<i>Zapus hudsonius</i> <i>preblei</i>	Final	Yes	NLAA

## **4.2 Summary Discussion**

The proposed Triview Northern Delivery System project may affect, but is unlikely to adversely affect the Monarch butterfly, Preble's meadow jumping mouse, and critical habitat for the Preble's meadow jumping mouse. It is not expected to affect any of the other species listed on the IPaC list for the action area.

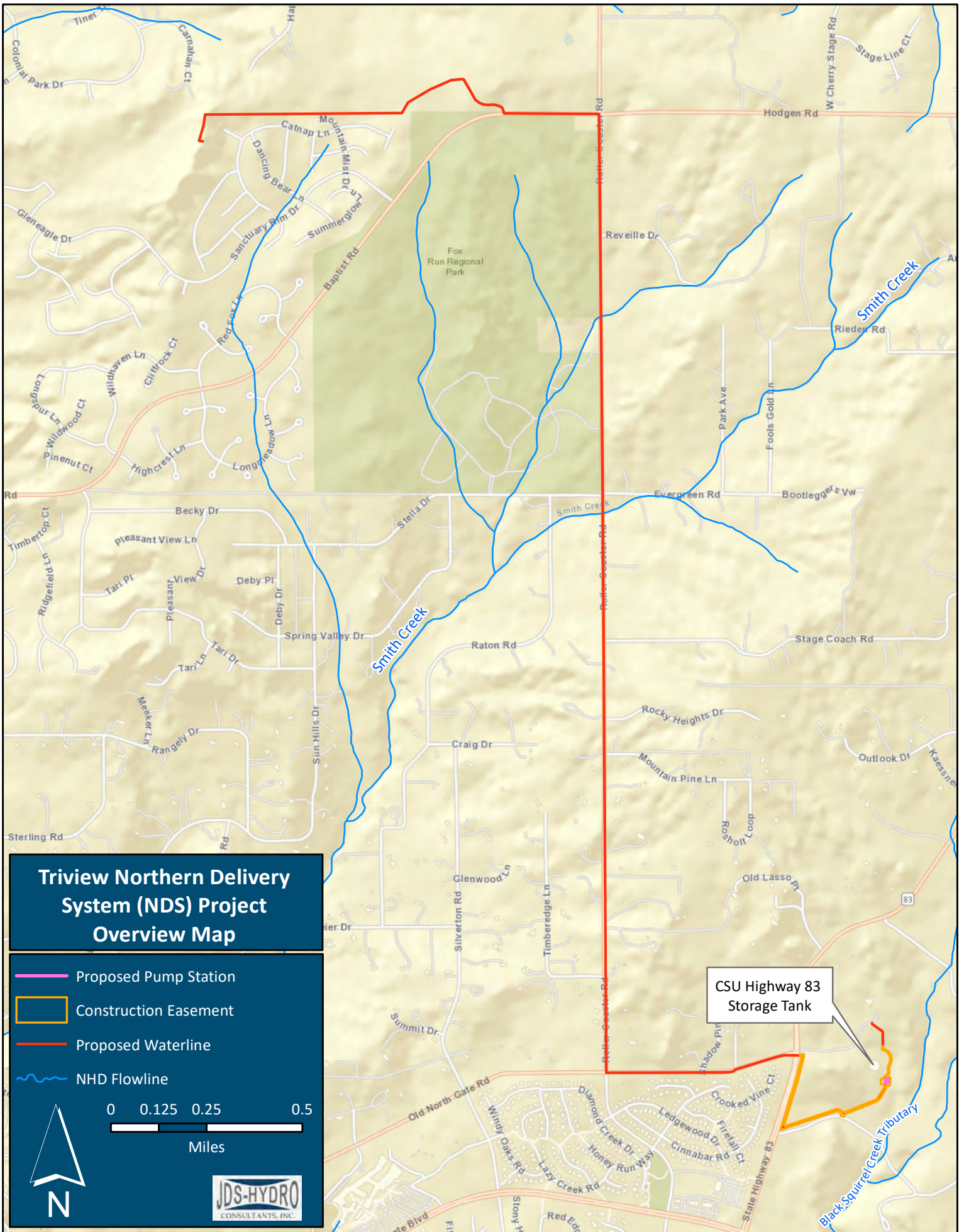
The action area contains wildflowers that could provide Monarch butterflies with a food source when the butterflies are present in central Colorado. After the project is complete, the disturbed areas will be re-seeded with native grasses and wildflowers are expected to re-establish naturally, thus returning the action area into suitable foraging habitat for Monarch butterflies.

Preble's meadow jumping mice could potentially use the southern portion of the action area as foraging habitat. However, as this species is primarily nocturnal and construction would be completed during the day, individual mice are not expected to be harmed by construction equipment. After the project is complete, the disturbed areas will be re-seeded with native grasses, thus returning the action area into suitable foraging habitat for Preble's meadow jumping mouse.

The construction footprint does not extend into critical habitat. The edge of the construction easement lies approximately 4 feet from the edge of the critical habitat. The edge of the pump station lies approximately 45 feet from the edge of critical habitat. However, there may be some temporary indirect effects to the critical habitat from construction, such as increased noise and dust in the immediate vicinity. Therefore, it is anticipated that the project may affect, but is unlikely to adversely affect critical habitat.

## **4.3 Conclusion**

The proposed Triview Northern Delivery System project may affect, but is unlikely to adversely affect the Monarch butterfly, Preble's meadow jumping mouse, and critical habitat for the Preble's meadow jumping mouse. It is not expected to affect any of the other species listed on the IPaC list for the action area.



## Triview Northern Delivery System (NDS) Project Overview Map

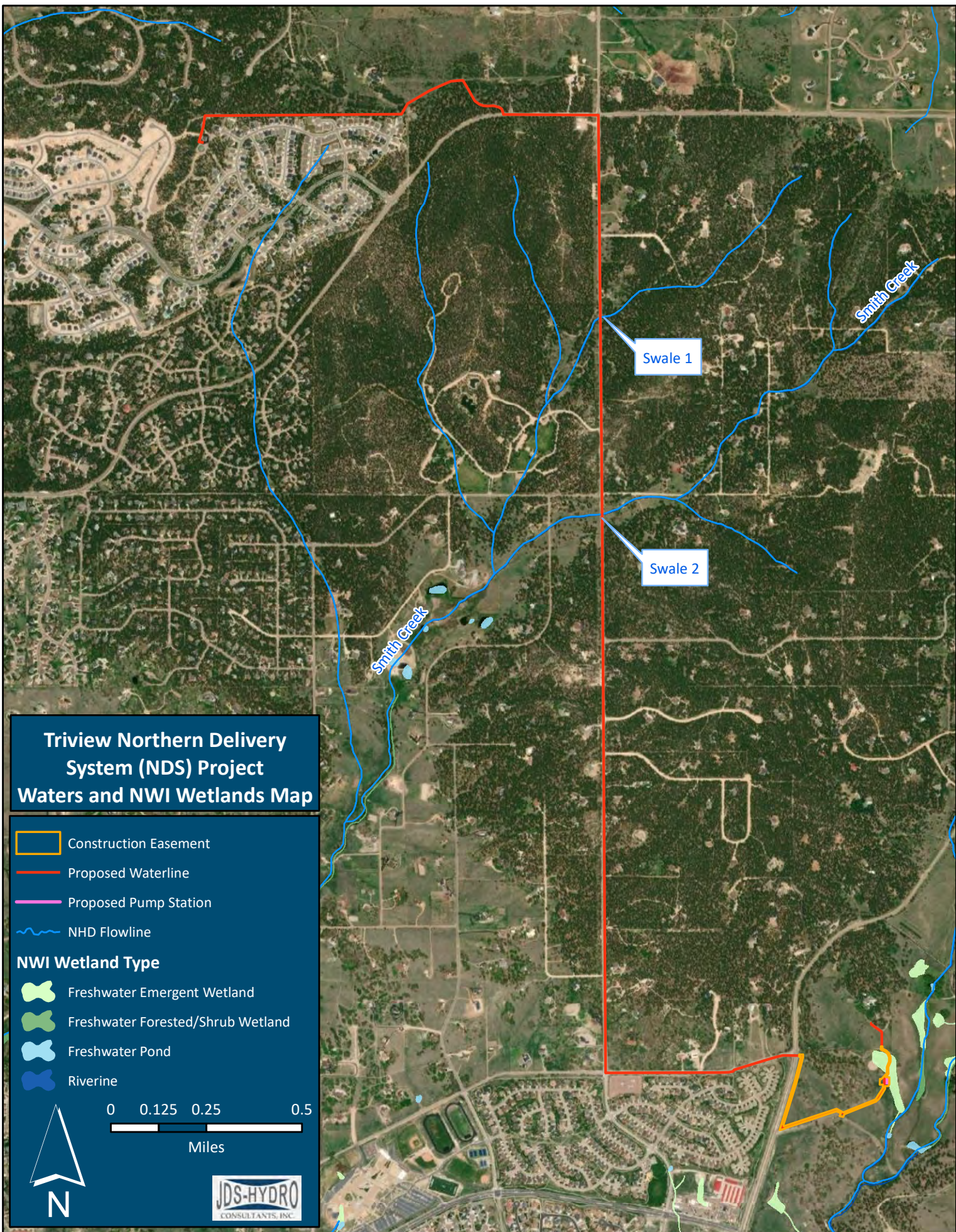
- Proposed Pump Station
- Construction Easement
- Proposed Waterline
- ~ NHD Flowline







CSU Highway 83  
Storage Tank

Black Squirrel Creek Tributary









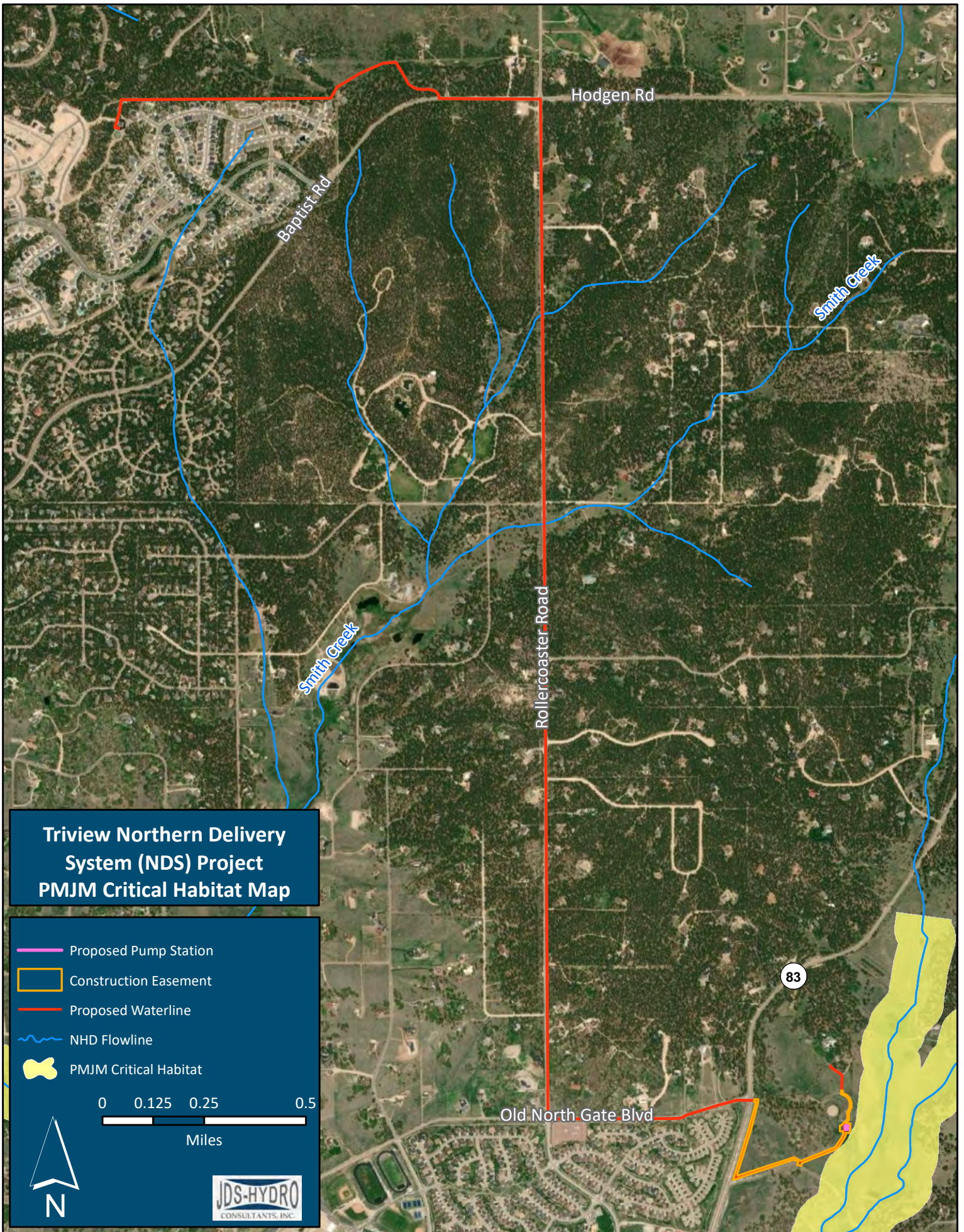
**Triview Northern Delivery System (NDS) Project Waters and NWI Wetlands Map**

-  Construction Easement
-  Proposed Waterline
-  Proposed Pump Station
-  NHD Flowline






**NWI Wetland Type**

-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond
-  Riverine





**Triview Northern Delivery System (NDS) Project  
PMJM Critical Habitat Map**

-  Proposed Pump Station
-  Construction Easement
-  Proposed Waterline
-  NHD Flowline
-  PMJM Critical Habitat

0 0.125 0.25 0.5  
Miles

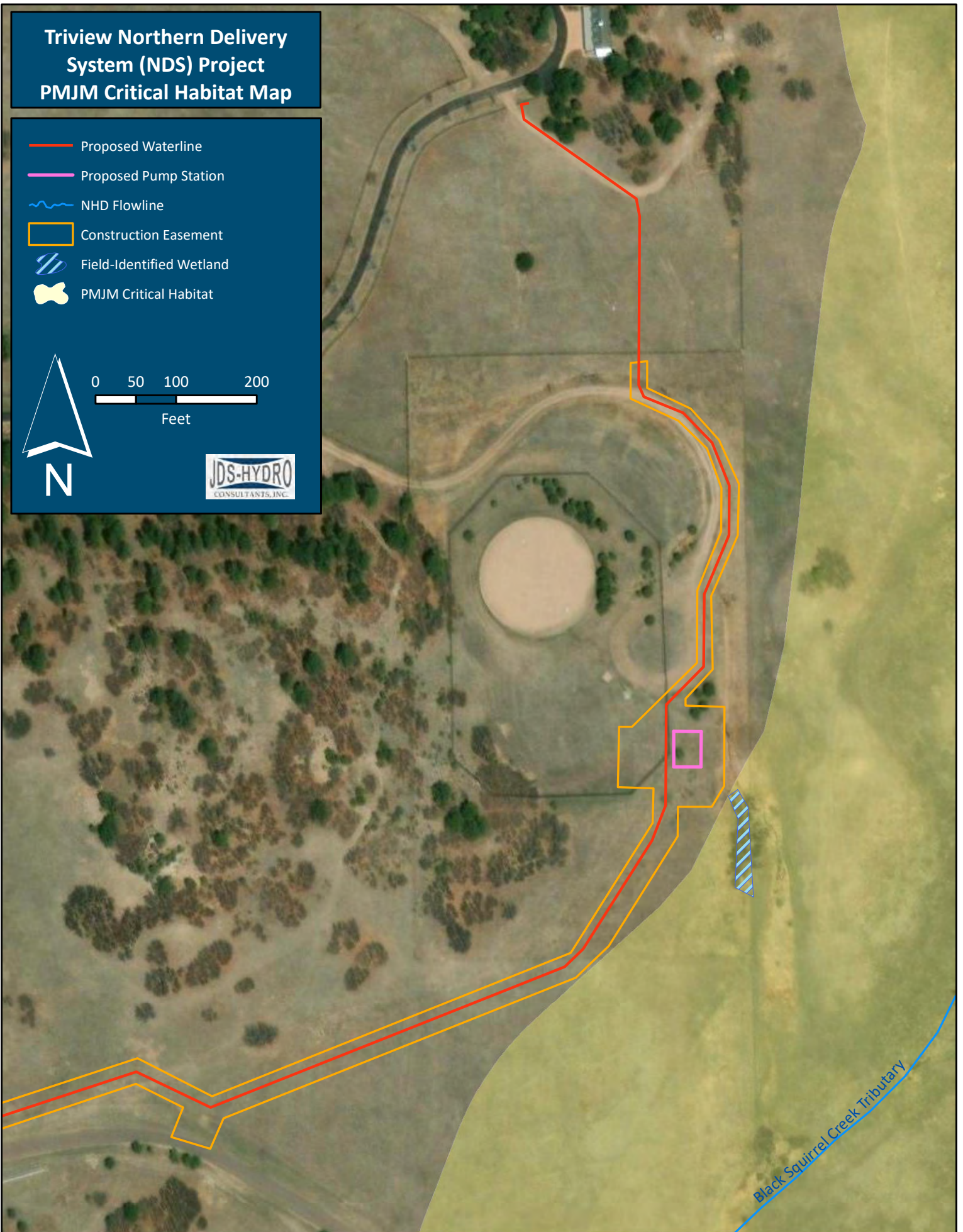


# Triview Northern Delivery System (NDS) Project PMJM Critical Habitat Map

- Proposed Waterline
- Proposed Pump Station
- NHD Flowline
- Construction Easement
- Field-Identified Wetland
- PMJM Critical Habitat



0 50 100 200  
Feet



Black Squirrel Creek Tributary

# TRIVIEW METROPOLITAN DISTRICT

## NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION

### MONUMENT, CO

SEPTEMBER 2022

### CODE STATEMENT

- I. APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:**
- A. PIKES PEAK REGIONAL BUILDING CODE (2017)
  - B. INTERNATIONAL BUILDING CODE (2015)
  - C. INTERNATIONAL ENERGY CONSERVATION CODE (2015)
  - D. INTERNATIONAL MECHANICAL CODE (2015)
  - E. INTERNATIONAL FUEL GAS CODE (2015)
  - F. INTERNATIONAL PLUMBING CODE (2018)
  - G. NATIONAL ELECTRICAL CODE (2020)
  - H. ICC/ANSI A117.1 ACCESSIBILITY STANDARD (2009)
- II. CODE ABSTRACT:**
- A. SCOPE**  
THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A PUMP STATION FOR THE TRIVIEW METROPOLITAN DISTRICT. THE BUILDING WILL HOUSE A PUMPING SYSTEM, PIPING, ELECTRICAL AND CONTROLS EQUIPMENT. ASSOCIATED APPURTENANCES INCLUDE UNDERGROUND SERVICE PIPING.
- B. GENERAL PROPERTY INFORMATION**  
-LOCATION: EL PASO COUNTY  
-LEGAL DESCRIPTION: SEC 03-12-66  
-EPC PARCEL SCHED #: 6203000002  
-ZONING: RR-5  
-LAND USE: POLITICAL SUBDIVISION  
-OWNER: CITY OF COLORADO SPRINGS  
-TAX STATUS: POLITICAL/EXEMPT
- C. BUILDING CONSTRUCTION**  
-TOTAL BUILDING AREA: 1,496 SF  
-BUILDING HEIGHT: 20 FT  
-# OF LEVELS: 2
- D. BUILDING CODE ANALYSIS**  
-CONSTRUCTION TYPE: TYPE II-B  
-O.C. CLASSIFICATION: U  
-USE: UTILITY  
-ALLOWABLE HEIGHT: 30 FT
- E. EGRESS REQUIREMENTS:**  
-OC. LOAD CALCULATION  
TOTAL BUILDING: 1,496 SF x 1/100 = 14.96 SF  
-TOTAL EXITS PROVIDED: 1  
-EXITS REQUIRED: 1

### LEGEND

- |  |                                     |
|--|-------------------------------------|
|  | PROPERTY LINE                       |
|  | EASEMENT/LEASE AGREEMENT AREA       |
|  | EX FENCE                            |
|  | EX WATER LINE                       |
|  | EX UG ELECTRIC LINE                 |
|  | EX ELEC POWER POLE                  |
|  | EX FIRE HYDRANT                     |
|  | EX TREE (SIZE VARIES)               |
|  | EX CONTOURS-MAJOR                   |
|  | EX CONTOURS-MINOR                   |
|  | PP CONTOURS-MAJOR                   |
|  | PP CONTOURS-MINOR                   |
|  | PP UG ELECTRIC LINE                 |
|  | PP WATER LINE                       |
|  | PP FIRE HYDRANT                     |
|  | PP FENCE (BARBED WIRE)              |
|  | PP FENCE (SPLIT RAIL)               |
|  | PP STAGING AREA (INITIAL)           |
|  | PP CONCRETE WASHOUT (INITIAL)       |
|  | PP VEHICLE TRAFFIC CIRCULATION PATH |

### SURVEY DATA

TOPOGRAPHY SURVEY CENTENNIAL LAND SURVEYING, LLC. SEE SURVEY FOR ESTABLISHED CONTROL. THE FOLLOWING COORDINATE SYSTEM AND DATUM RECORD IS AS FOLLOWS:

HORIZONTAL DATUM: HORIZONTAL COORDINATES ARE MODIFIED COLORADO STATE PLANE CENTRAL BASED UPON THE FOLLOWING: COORDINATES ARE SCALED FROM CONTROL POINT 5052 BEING A 2-INCH ALUMINUM CAP STAMPED AZTEC CP 52 SET AT THE TOP OF A DIRT BANK ALONG THE EAST SIDE OF GLEN EAGLE DR. APPROXIMATELY 380+- FEET NORTHERLY OF ST. LAWRENCE WAY. VALUES ARE BASED UPON A STATIC SURVEY SESSION WITH THE FOLLOWING RESULTS:  
 LATITUDE: 39-04-05916N; LONGITUDE: 104-49-24.82486 W  
 STATE PLANE NORTHING: 1,450,401.759; STATE PLANE EASTING: 3,192,049.712  
 SCALE FACTOR: 1.0004063250  
 TRUNCATE NORTHING: 1,000,000.00; TRUNCATE EASTING: 3,000,000.00  
 PROJECT NORTHING: 450,401.759; PROJECT EASTING: 192,049.712

VERTICAL DATUM: NAVD 88 WITH GEOID G18US; BENCHMARK: CP 5052 EL: 7213.70  
 BENCHMARK: NGS CS110/DM9842 EL: 6843.25; BENCHMARK: NGS S294/KK0272 EL: 7116.72

# 70% DESIGN



**VICINITY MAP**  
N.T.S.



PRE-EXCAVATION CHECKLIST	
<input type="checkbox"/>	Gas and Other Utility Lines Shown on Construction Plans
<input type="checkbox"/>	Utility Notification Center of Colorado (UNCC)--Call at Least Two (2) Business Days Ahead--1-800-922-1987
<input type="checkbox"/>	Utilities Located & Marked on the Ground
<input type="checkbox"/>	Employees Briefed on Marking and Color Codes*
<input type="checkbox"/>	Employees Trained on Excavation and Safety Procedures for Natural Gas Lines
<input type="checkbox"/>	When Excavation Approaches Gas Lines, Employees Must Expose Lines by Careful Probing and Hand-Digging

COLOR CODE FOR MARKING UNDERGROUND UTILITY LINES	
	PROPOSED EXCAVATION
	TEMPORARY SURVEY MARKINGS
	ELECTRIC
	GAS, OIL, STEAM
	COMMUNICATION, CATV
	POTABLE WATER
	IRRIGATION, RECLAIMED WATER, SLURRY LINES
	SEWER

**COLORADO 811**  
Always Call Before You Dig 811 or (800) 922-1987

**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATION AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY TRIVIEW METROPOLITAN DISTRICT DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

### SHEET INDEX

SHEET NUMBER	DESCRIPTION	SHEET NUMBER	DESCRIPTION
	COVER SHEET		
<b>GENERAL</b>			
G1	GENERAL NOTES	<b>ARCHITECTURAL</b>	
G2	FEMA FLOODPLAIN MAP	A1	ARCHITECTURAL FLOOR PLAN
G3	VICINITY MAP	A2	ARCHITECTURAL ROOF PLAN
G4	PPD	A3	EAST & WEST BUILDING ELEVATIONS
		A4	NORTH & SOUTH BUILDING ELEVATIONS
		A5	ARCHITECTURAL SECTIONS
		A6	ARCHITECTURAL DETAILS
		A7	LIFE SAFETY PLAN
<b>CIVIL</b>			
C1	OVERALL SITE PLAN	<b>PROCESS</b>	
C2	SITE DEVELOPMENT PLAN	P1	PROCESS FLOOR PLAN
C3	SITE DEVELOPMENT PLAN	P2	PROCESS PIPE SECTIONS
C4	UTILITY PLAN	P3	PROCESS PIPE SECTIONS
C5	WATERLINE INLET ALIGNMENT PLAN & PROFILE	P4	PROCESS DETAILS
C6	WATERLINE OUTLET ALIGNMENT PLAN & PROFILE	P5	PROCESS DETAILS
C7	LANDSCAPE PLAN	<b>MECHANICAL</b>	
C8	LANDSCAPE DETAILS	M-001	LEGENDS AND ABBREVIATIONS
C9	LANDSCAPE DETAILS	M-002	SCHEDULES
C10	LANDSCAPE DETAILS	M-003	SPECIFICATIONS
C11	CIVIL DETAILS	M-101	HVAC PLAN
C12	CIVIL DETAILS	M-601	HVAC DETAILS & DIAGRAMS
C13	CIVIL DETAILS	<b>ELECTRICAL</b>	
C14	CIVIL DETAILS	E1	SYMBOLS LEGEND & SCHEDULES
<b>STRUCTURAL</b>			
S1	STRUCTURAL NOTES	E2	ELECTRICAL POWER PLAN
S2	STRUCTURAL SECTIONS	E3	ELECTRICAL LIGHTING PLAN
S3	STRUCTURAL FLOOR PLAN	E4	ONE-LINE DIAGRAM & PANEL SCHEDULES
S4	STRUCTURAL ANCHOR PLAN	E5	ELECTRICAL CONCRETE EMBEDDED CONDUIT PLAN
S5	STRUCTURAL DETAILS		
S6	STRUCTURAL DETAILS		
S7	STRUCTURAL DETAILS		

### PARTICIPANTS

OWNER	CONSULTING/DESIGN ENGINEER	DRAINAGE ENGINEER
TRIVIEW METROPOLITAN DISTRICT 16055 OLD FOREST POINT STE 302 MONUMENT, CO 80132 CONTACT: JIM MCGRADY PHONE: (719) 488-6868	JDS-HYDRO CONSULTANTS, A DIVISION OF RESPEC 5540 TECH CENTER DR STE 100 COLORADO SPRINGS, CO 80919 CONTACT: GWEN DALL, PE PHONE: (719) 402-0014	RESPEC 121 S TEJON ST STE 1110 COLORADO SPRINGS, CO 80903 CONTACT: RICH GALLEGOS, PE PHONE: (719) 266-5212

### SIGNATURE BLOCKS

**DISTRICT APPROVALS**  
 THE TRIVIEW METROPOLITAN DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE TRIVIEW METROPOLITAN DISTRICT HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

TRIVIEW METROPOLITAN DISTRICT DESIGN APPROVAL

BY: JIM MCGRADY, DISTRICT MANAGER \_\_\_\_\_ DATE: \_\_\_\_\_

PROJ NO. W0224.21029

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT, THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE. APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.

**ENGINEER'S STATEMENT:**  
 THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE APPLICABLE GOVERNING AGENCIES.

MARIO DIPASQUALE, P.E. #41667 \_\_\_\_\_ DATE \_\_\_\_\_ PROJECT NO. W224.21029  
 JDS-HYDRO CONSULTANTS, A DIVISION OF RESPEC

PCD FILE NO. \_\_\_\_\_

2022/09/20 10:48 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\00\_Cover\22429\_COVER.dwg

TRIVIEW METRO DISTRICT GENERAL NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE SITE WORK STANDARDS AND SPECIFICATIONS, THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE TRIVIEW METROPOLITAN DISTRICT DESIGN CRITERIA & CONSTRUCTION SPECIFICATIONS, AND APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY TRIVIEW METROPOLITAN DISTRICT. THE DISTRICTS WILL ALSO INSPECT ALL WORK ON PRIVATE PROPERTY.
2. THE TRIVIEW METROPOLITAN DISTRICT DESIGN CRITERIA & CONSTRUCTION SPECIFICATIONS MANUALS ARE CONSIDERED PART OF THIS CONSTRUCTION DRAWING SET. THIS DESIGN AND PLAN SET IS INCOMPLETE WITHOUT THESE SPECIFICATIONS MANUALS. THE CONTRACTOR SHALL OBTAIN A COPY OF THESE MANUALS AND BE FAMILIAR WITH THEM FOR ALL CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ACTUAL CONSTRUCTION. ALL EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION OF RECORD. THE CONTRACTOR IS RESPONSIBLE FOR TAKING PRECAUTIONARY MEASURES TO PROTECT THE EXISTING UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS AND AGREES TO ACCEPT FULL RESPONSIBILITY FOR FAILURE TO LOCATE AND PRESERVE ANY EXISTING UTILITIES. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE TRIVIEW METROPOLITAN DISTRICT AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH THE MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE TRIVIEW METROPOLITAN DISTRICT INSPECTORS AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ALL PERMITS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
8. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND THE TRIVIEW METROPOLITAN DISTRICT INSPECTORS IMMEDIATELY.
9. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
10. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH M.U.T.C.D. TO THE TOWN OF MONUMENT FOR APPROVAL, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON THE SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, WHICH SHALL BE AVAILABLE TO THE TRIVIEW METROPOLITAN DISTRICT INSPECTORS AT ALL TIMES. A REPRODUCIBLE SET OF AS-BUILT DRAWINGS MUST BE FURNISHED TO TRIVIEW METROPOLITAN DISTRICT AT THE COMPLETION OF THE PROJECT, PRIOR TO FINAL APPROVAL BY THE TRIVIEW METROPOLITAN DISTRICT.
14. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE ENGINEER-OF-RECORD FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
15. ALL STRUCTURAL EROSION CONTROL MEASUREMENTS SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BE THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

16. THE CONTRACTOR SHALL SEQUENCE THE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.
17. NO SITE-RELATED IMPROVEMENTS MAY COMMENCE UNTIL A PRE-CONSTRUCTION MEETING IS HELD WITH THE TRIVIEW METROPOLITAN DISTRICT AND ALL APPLICABLE PERMITS ARE OBTAINED.
18. THE CONTRACTOR MUST IDENTIFY TO THE TRIVIEW METROPOLITAN DISTRICT, PRIOR TO THE START OF ANY WORK, A QUALIFIED PLAN PERSON RESPONSIBLE FOR REVIEWING AND MONITORING ALL OPERATIONS IN ORDER TO PREVENT OR MINIMIZE THE IMPACT OF VIBRATION, NOISE, DUST, DRAINAGE, AND EROSION DAMAGE, AND OTHER FORMS OF POLLUTION ON NEARBY PROPERTY AND THE PUBLIC AS A WHOLE. THE DEVELOPER MUST WRITE TO THE OWNERS/OCCUPANTS OF PROPERTIES WITHIN AT LEAST 100 YARDS OF THE LIMITS OF THE WORKSITE, INFORMING THEM OF THE NATURE AND TIMING OF THE PROJECT AND PROVIDING CONTACT DETAILS FOR COMPLAINTS.

GENERAL CONSTRUCTION NOTES:

1. THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING IMPROVEMENTS TO BE MET BY THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION. ANY SIGNIFICANT DISCREPANCIES FOUND BETWEEN THIS PLAN SET AND ACTUAL FIELD CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD FOR APPROPRIATE ACTION.
2. THE CONTRACTOR IS ADVISED THAT ALL EXISTING CONDITIONS OUTSIDE THE AREA OF WORK SHALL BE PROTECTED, IF DAMAGE OCCURS DURING CONSTRUCTION, IT WILL BE REPLACED IN THE ORIGINAL, EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND ROUTING DURING CONSTRUCTION, IF REQUIRED. TWO-WAY TRAFFIC SHALL BE MAINTAINED THROUGH THE WORK AREA AT ALL TIMES.
4. ALL DISTURBED AREAS THAT ARE TO REMAIN UNCOVERED FOR A PERIOD GREATER THAN 2 MONTHS SHALL BE RESEEDED AND WATERED UNTIL STABLE VEGETATION IS ESTABLISHED.
5. AT LEAST ONE SIGNED AND STAMPED SET OF THESE CONSTRUCTION DRAWINGS SHALL BE KEPT ON-SITE AT ALL TIMES.
6. ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE TRIVIEW METROPOLITAN DISTRICT, AND THE DISTRICTS' ENGINEERS. ANY REVISION OF THE PLANS SHALL BE SO NOTED, WITH THE OLD DRAWINGS MARKED NOT VALID.
7. ALL STATIONING IS CENTER LINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE CENTER LINE UNLESS OTHERWISE NOTED.
8. ALL BURIED DUCTILE IRON PIPE, INCLUDING FITTINGS, VALVES AND FIRE HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED.
9. ALL DUCTILE IRON PIPE LESS THAN 12 INCHES AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRE WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING.
10. ALL MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH TRACER WIRE WITH TEST STATIONS EVERY 500 FT (UNLESS VALVE BOXES CAN BE USED AT INTERSECTIONS AND SERVICE STUBS).
11. ALL PIPE MATERIAL, BACKFILL AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS, COLORADO DEPARTMENT OF TRANSPORTATION, EL PASO COUNTY DEPARTMENT OF TRANSPORTATION, COLORADO SPRINGS UTILITIES AND THE GEOTECHNICAL ENGINEER.
12. COMPACTION TESTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE DISTRICT OR HIGHER STANDARD AS IMPOSED BY ANOTHER AGENCY HAVING RIGHT-OF-WAY JURISDICTION. THIS SHALL INCLUDE ALL VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES AND MANHOLES. ALL REPORTS SHALL BE SUBMITTED TO THE TRIVIEW METROPOLITAN DISTRICT FOR REVIEW AND APPROVAL.
13. ALL BENDS SHALL BE STAKED PRIOR TO THE START OF CONSTRUCTION.
14. ALL UNUSED SALVAGED WATER UTILITY MATERIAL SHALL BE RETURNED TO THE TRIVIEW METROPOLITAN DISTRICT AS REQUESTED.
15. AT THE CONTRACTOR'S EXPENSE ALL UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED SUCH THAT THEY FUNCTION CONTINUOUSLY DURING CONSTRUCTION OPERATIONS. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR OR THE METROPOLITAN DISTRICTS AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR/DEVELOPER.
16. THE CONTRACTOR SHALL REPLACE OR REPAIR DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB AND GUTTER AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
17. ALL CONTRACTORS WORKING ON OR NEAR A WATER OR SEWER FACILITY (TO INCLUDE SERVICE LINES) SHALL HAVE LIABILITY INSURANCE NAMING THE TRIVIEW METROPOLITAN DISTRICT AS ADDITIONAL INSURERS AND SHALL PROVIDE A CURRENT COPY OF WORKERS COMPENSATION INSURANCE ON FILE WITH THE DISTRICTS. NO WORK CAN PROCEED WITHOUT CURRENT CERTIFICATES ON FILE AT THE DISTRICT OFFICE.

18. THE CONTRACTOR SHALL NOTIFY THE TRIVIEW METROPOLITAN DISTRICT (488-6868), AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A WEEKLY CONSTRUCTION MEETING SHALL BE REQUIRED WITH THE CONTRACTOR, DISTRICT ENGINEERS AND ALL OTHER PARTIES AS DEEMED NECESSARY BY THE DISTRICTS.

19. COMMENCEMENT OF CONSTRUCTION OF WATER/SEWER SYSTEMS WITHIN DISTRICTS:

- 19.1. PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING IS REQUIRED A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. A REPRESENTATIVE OF THE OWNER OR DEVELOPER, A REPRESENTATIVE OF THE CONTRACTOR, AND THE DESIGN ENGINEER ARE REQUIRED TO ATTEND. CONTACT THE TRIVIEW METROPOLITAN DISTRICT (488-6868) TO SCHEDULE THE PRE-CONSTRUCTION MEETING. NO PRE-CONSTRUCTION MEETING CAN BE SCHEDULED UNTIL THREE (3) SIGNED/APPROVED PLAN SETS ARE RECEIVED BY THE METROPOLITAN DISTRICTS.
- 19.2. THE CONTRACTOR IS REQUIRED TO NOTIFY THE TRIVIEW METROPOLITAN DISTRICT (488-6868) A MINIMUM OF 48 HOURS AND A MAXIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.

20. PRESSURE TESTING OF FACILITIES:

- 20.1. THE CONTRACTOR SHALL NOTIFY THE TRIVIEW METROPOLITAN DISTRICT (488-6868) A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING.
- 20.2. ALL SECTIONS OF WATER LINE ARE TO MEET THE FOLLOWING PRESSURE TESTING REQUIREMENTS
  - 20.2.1. TEST 100% OF ALL LINES.
  - 20.2.2. MUST PASS PRESSURE TEST TO 200 PSI FOR TWO HOURS (UNLESS OTHERWISE APPROVED ON THE PLANS)

21. DISINFECTION OF FACILITIES:

- 21.1. THE CONTRACTOR SHALL DISINFECT ALL DOMESTIC WATERLINES ACCORDING TO AWWA STANDARDS B-300 AND C-601, INCLUDING PRELIMINARY FLUSHING, CHLORINATION, AND FINAL FLUSHING.
- 21.2. THE CONTRACTOR SHALL COLLECT SAMPLES FROM END OF PIPELINE AFTER FINAL FLUSHING AND PRIOR TO PLACING WATERLINES IN SERVICE AND TEST FOR COLIFORM ORGANISMS. THE NUMBER AND FREQUENCY OF SAMPLES SHALL CONFORM WITH THE REQUIREMENTS OF THE PUBLIC HEALTH AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL PAY FOR THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM SAMPLING AND TESTING AS REQUIRED.
- 21.3. REPEAT DISINFECTION UNTIL SATISFACTORY SAMPLES HAVE BEEN OBTAINED IF INITIAL OR SUBSEQUENT DISINFECTION FAILS TO PRODUCE SATISFACTORY SAMPLES.

22. COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS:

- 22.1. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL AFTER THE COMPLETION OF ALL PRESSURE TESTING, FLUSHING, DISINFECTION, BAC-T TESTING, AND COMPACTION TESTING, AND UNTIL AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.
- 22.2. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO THE USE OF THE FACILITY.
- 22.3. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICTS, AND RECORDED.

23. ALL WATER LINES SHALL HAVE "AS BUILT" PLANS PREPARED AND APPROVED PRIOR TO PRELIMINARY ACCEPTANCE BY THE DISTRICT.

24. SUBSURFACE UTILITY ENGINEERING

- 24.1. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
- 24.2. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.

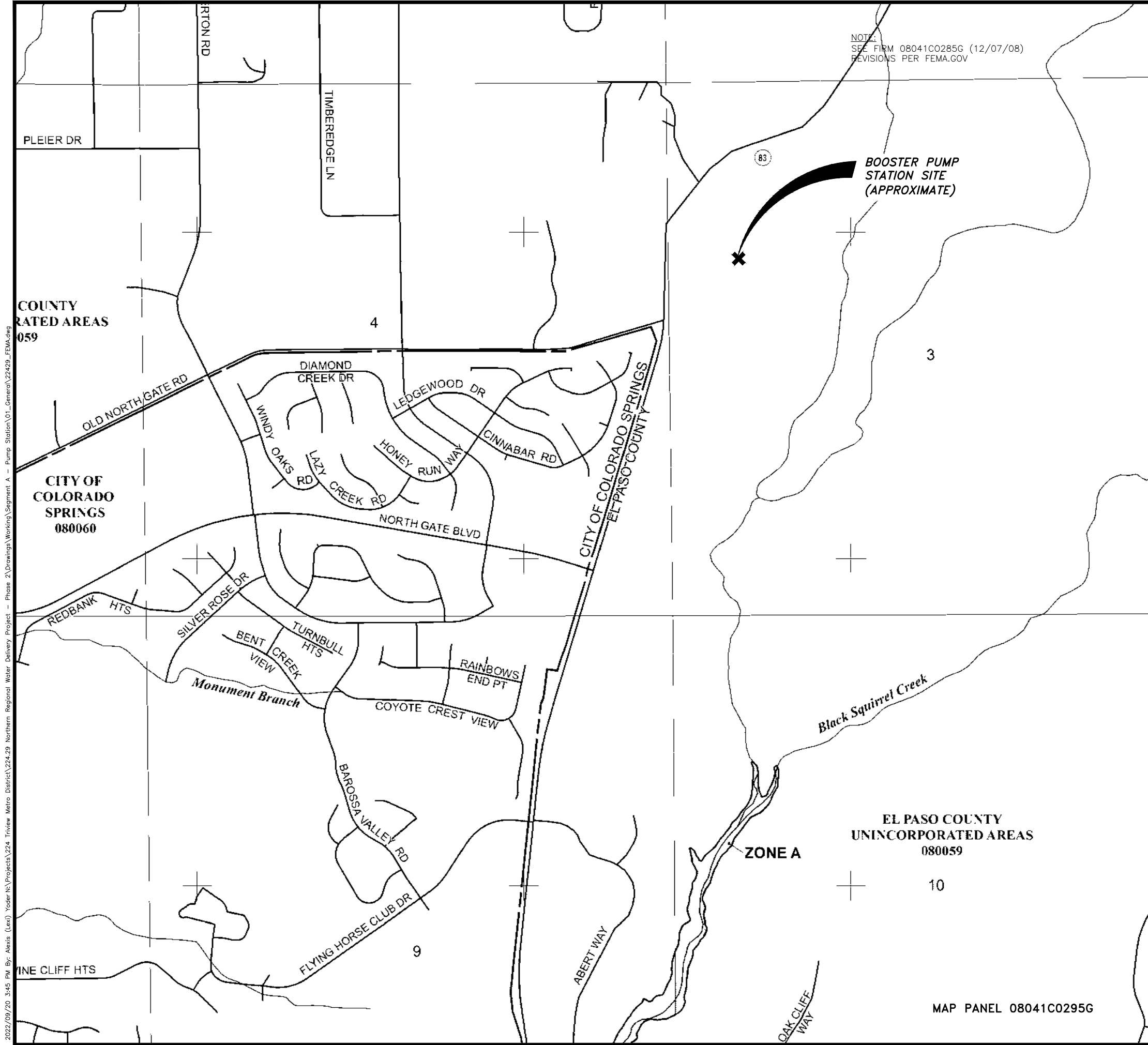
**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072  
DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO. A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

**TRIVIEW METROPOLITAN DISTRICT**  
**NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION**  
**GENERAL NOTES**

NO.	REVISIONS		DATE
	DESCRIPTION	BY APP.	
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**70% DESIGN**

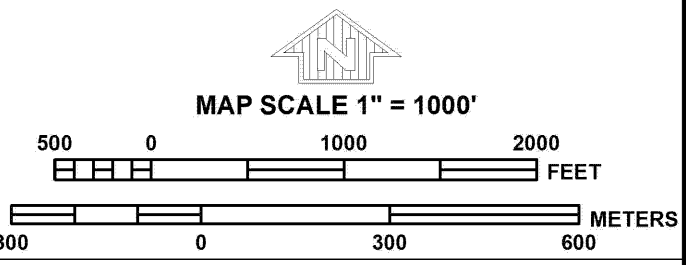
Project No.: W224.21029  
 Date: 09/12/22  
 Design: MLD  
 Drawn: AMY  
 Check: MLD



NOTE:  
SEE FIRM 08041C0285G (12/07/08)  
REVISIONS PER FEMA.GOV

# LEGEND

- SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD
  - Floodplain boundary
  - Floodway boundary
  - FLOODWAY AREAS IN ZONE AE
- The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.



**NATIONAL FLOOD INSURANCE PROGRAM**

**PANEL 0295G**

**FIRM**  
FLOOD INSURANCE RATE MAP  
EL PASO COUNTY,  
COLORADO  
AND INCORPORATED AREAS

**PANEL 295 OF 1300**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:	COMMUNITY	NUMBER	PANEL	SUFFIX
	EL PASO AREA, CITY OF	08000	0295	0
	EL PASO COUNTY	08009	0295	0

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

**MAP NUMBER**  
08041C0295G

**MAP REVISED**  
DECEMBER 7, 2018

Federal Emergency Management Agency

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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION  
 FEMA FLOODPLAIN MAP

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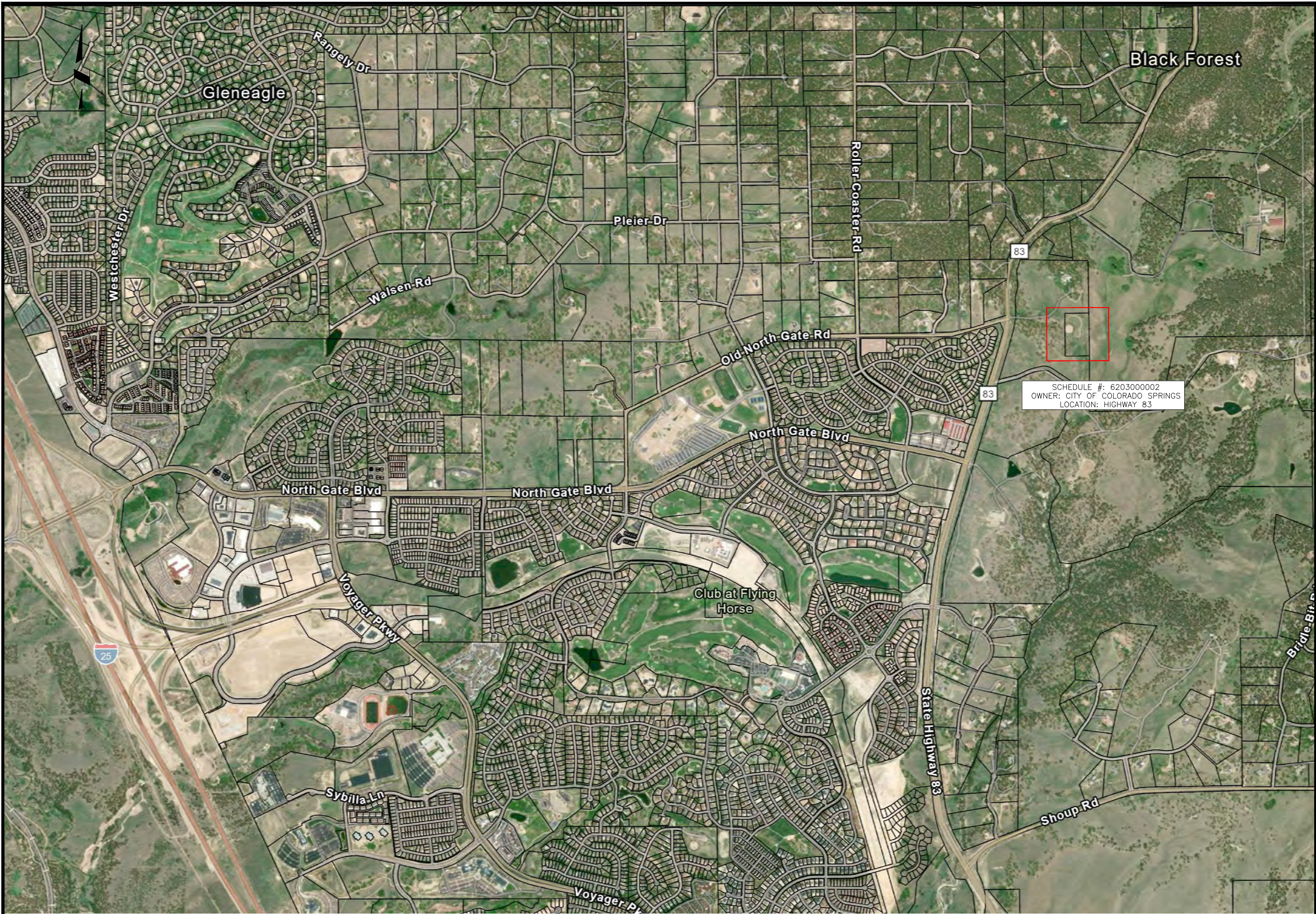
70% DESIGN

Project No.: W224.21029  
 Date: 09/12/22  
 Design: MLD  
 Drawn: AMY  
 Check: MLD

**G2**  
SHEET ---- OF

2022/09/20 3:45 PM By: Alexis (Lex) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\01\_General\22429\_FEMA.dwg

2022/09/20 3:45 PM By: Alexis (Lex) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\01\_General\22429\_VICINITY\_MAP.dwg



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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION  
 VICINITY MAP

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**70% DESIGN**

Project No.: W224.21029  
 Date: 09/12/22  
 Design: MLD  
 Drawn: AMY  
 Check: MLD

**G3**  
 SHEET --- OF ---

2022/09/20 3:45 PM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\01\_General\22429\_P&ID.dwg

A101  
CHLORINE RESIDUAL  
ANALYZER  
AMPEROMETRIC  
NO REAGENTS REQUIRED  
CLT10SC

F101  
ELECTROMAGNETIC  
FLOW METER 8"  
BADGER M-2000

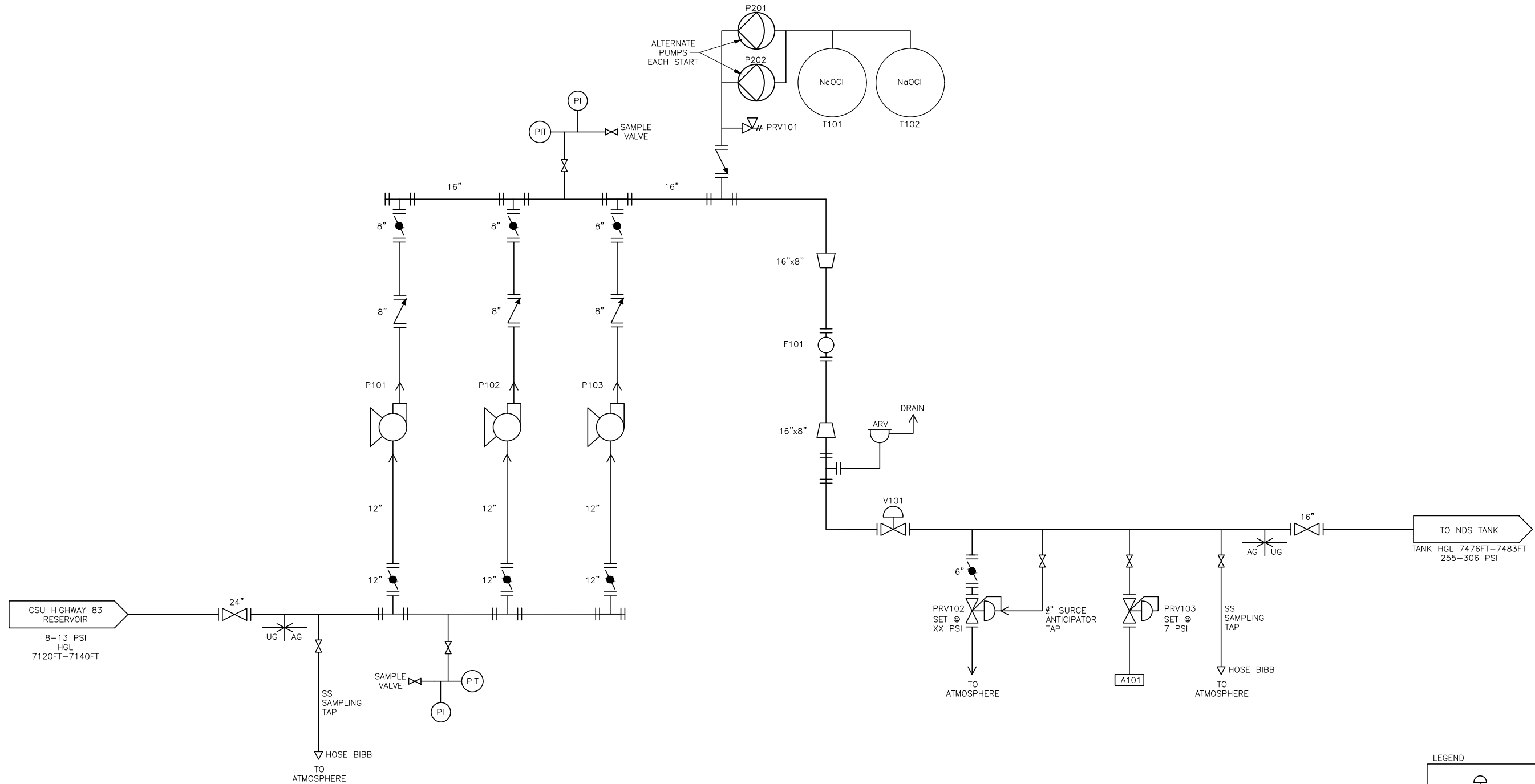
T101\_102  
CHLORINE STORAGE TANK  
HIGH-DENSITY CROSS-LINKED  
POLYETHYLENE (XLPE)  
DOUBLE WALLED  
250 GALLON

P101\_102\_103  
8-STAGE VERTICAL TURBINE  
PEERLESS 15MA/LC  
350 HP  
TDH: 590 FT  
FLOWRATE: 1500 GPM  
460V, 390A  
1770 RPM

P201\_202  
PERISTALTIC PUMP  
M324-SNDR  
0.67 GPH

PRV102  
SURGE VALVE  
6" CLA-VAL 52-03

V101  
ELECTRICAL CONTROL VALVE  
WORKING PRESSURE: 175 PSI  
LEAD FREE  
16" CLA-VAL 131-66



NOTE: ALL PARTS IN CONTACT WITH POTABLE WATER TO BE STAINLESS STEEL, PVC ON NSF-61 APPROVED AND LEAD FREE

LEGEND

	CONTROL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE

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TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION  
PROCESS FLOW DIAGRAM

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70% DESIGN

Project No.: W224.21029  
Date: 09/12/22  
Design: MLD  
Drawn: AMY  
Check: MLD

G4  
SHEET --- OF

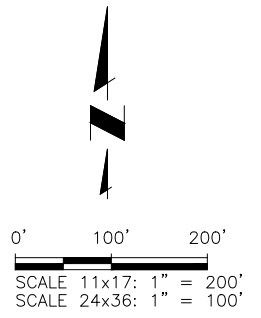


- NOTES:**
1. THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATION AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.
  2. FEMA 100-YR FLOODPLAIN NOT WITHIN SITE BOUNDARIES.
  3. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND MANY NOT BE ALL INCLUSIVE. CONTRACTOR TO VERIFY.
  4. SEE GEC DRAWINGS FOR GRADING AND EROSION CONTROL DETAILS.

**LEGAL DESCRIPTION:**

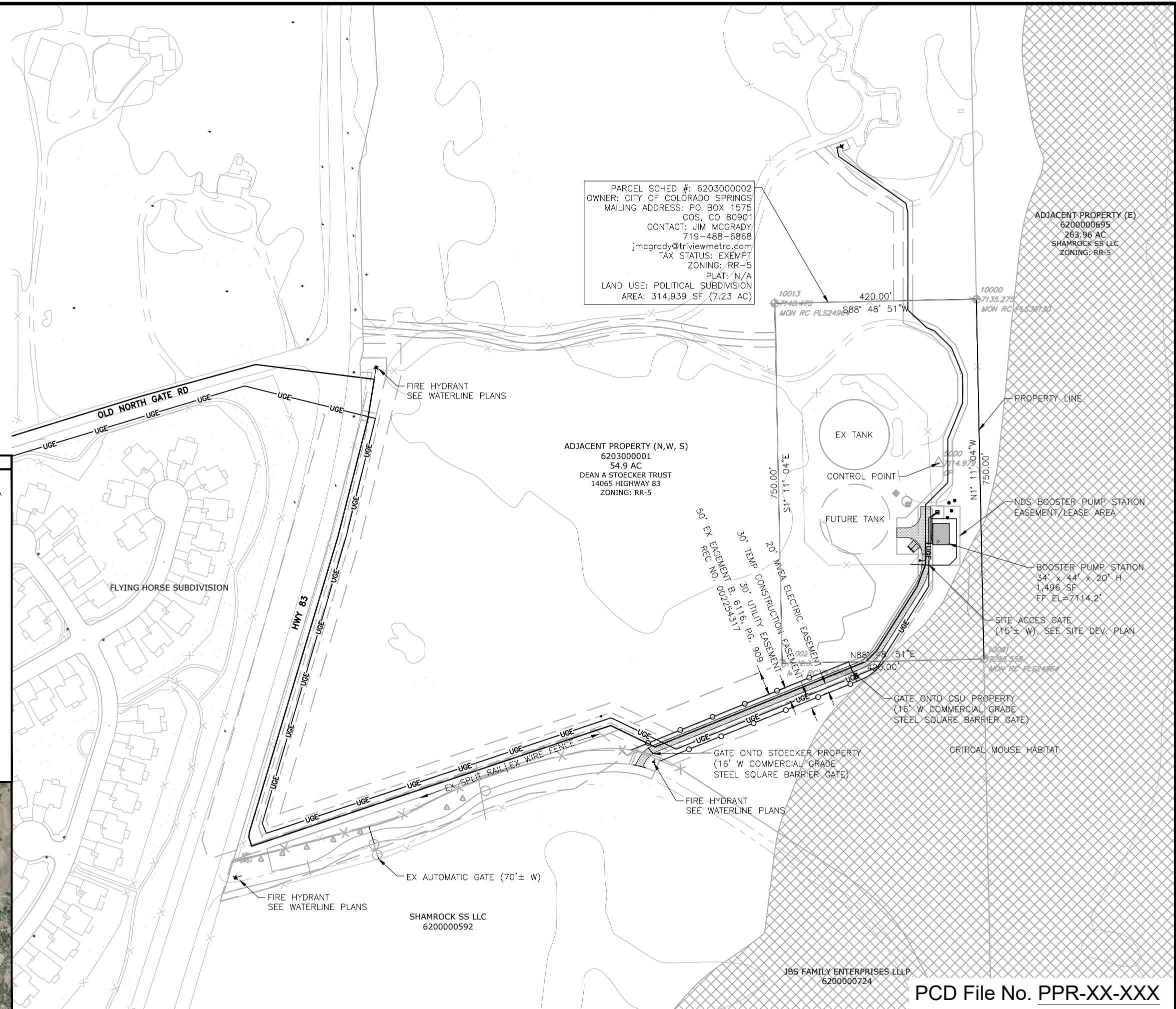
**PROPERTY**  
 TR OF LAND IN SEC 03-12-66 DESC AS FOLS: COM AT SW COR OF SD SEC 3, TH N 00<52'30" W 2644.43 FT TO W4 COR OF SEC 3, S 89<24'29" E 1317.41 FT TO NE COR OF NW4SW4 OF SEC 3 FOR POB, TH S 00<49'41" E 350.25 FT, S 89<10'19" W 420.0 FT, N 00<49'38" W 750.0 FT, N 89<10'19" E 420.0 FT, S 00<49'31" E 399.75 FT TO POB

**EASEMENT/LEASE AGREEMENT AREA**  
 TO BE DETERMINED



**LEGEND**

	PROPERTY LINE
	EASEMENT/LEASE AGREEMENT AREA
	EX FENCE
	EX WATER LINE
	EX UG ELECTRIC LINE
	EX ELEC POWER POLE
	EX FIRE HYDRANT
	EX TREE (SIZE VARIES)
	EX CONTOURS-MAJOR
	EX CONTOURS-MINOR
	PP CONTOURS-MAJOR
	PP CONTOURS-MINOR
	PP UG ELECTRIC LINE
	PP WATER LINE
	PP FIRE HYDRANT
	PP FENCE (BARBED WIRE)
	PP FENCE (SPLIT RAIL)
	PP STAGING AREA (INITIAL)
	PP CONCRETE WASHOUT (INITIAL)
	PP VEHICLE TRAFFIC CIRCULATION PATH



PARCEL SCHED #: 6203000002  
 OWNER: CITY OF COLORADO SPRINGS  
 MAILING ADDRESS: PO BOX 1575  
 COS, CO 80901  
 CONTACT: JIM MCGRADY  
 719-488-6868  
 jmcgrady@triviewmetro.com  
 TAX STATUS: EXEMPT  
 ZONING: RR-5  
 PLAT: N/A  
 LAND USE: POLITICAL SUBDIVISION  
 AREA: 314,939 SF (7.23 AC)

ADJACENT PROPERTY (E)  
 6200000695  
 263.96 AC  
 SHAMROCK SS LLC  
 ZONING: RR-5

ADJACENT PROPERTY (N,W, S)  
 6203000001  
 54.9 AC  
 DEAN A STOECKER TRUST  
 14065 HIGHWAY 83  
 ZONING: RR-5

BOOSTER PUMP STATION  
 34' x 44' x 20' H  
 1,496 SF  
 FF EL=7114.2'

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 (719) 227-0072

TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION  
 OVERALL SITE PLAN

NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

70% DESIGN

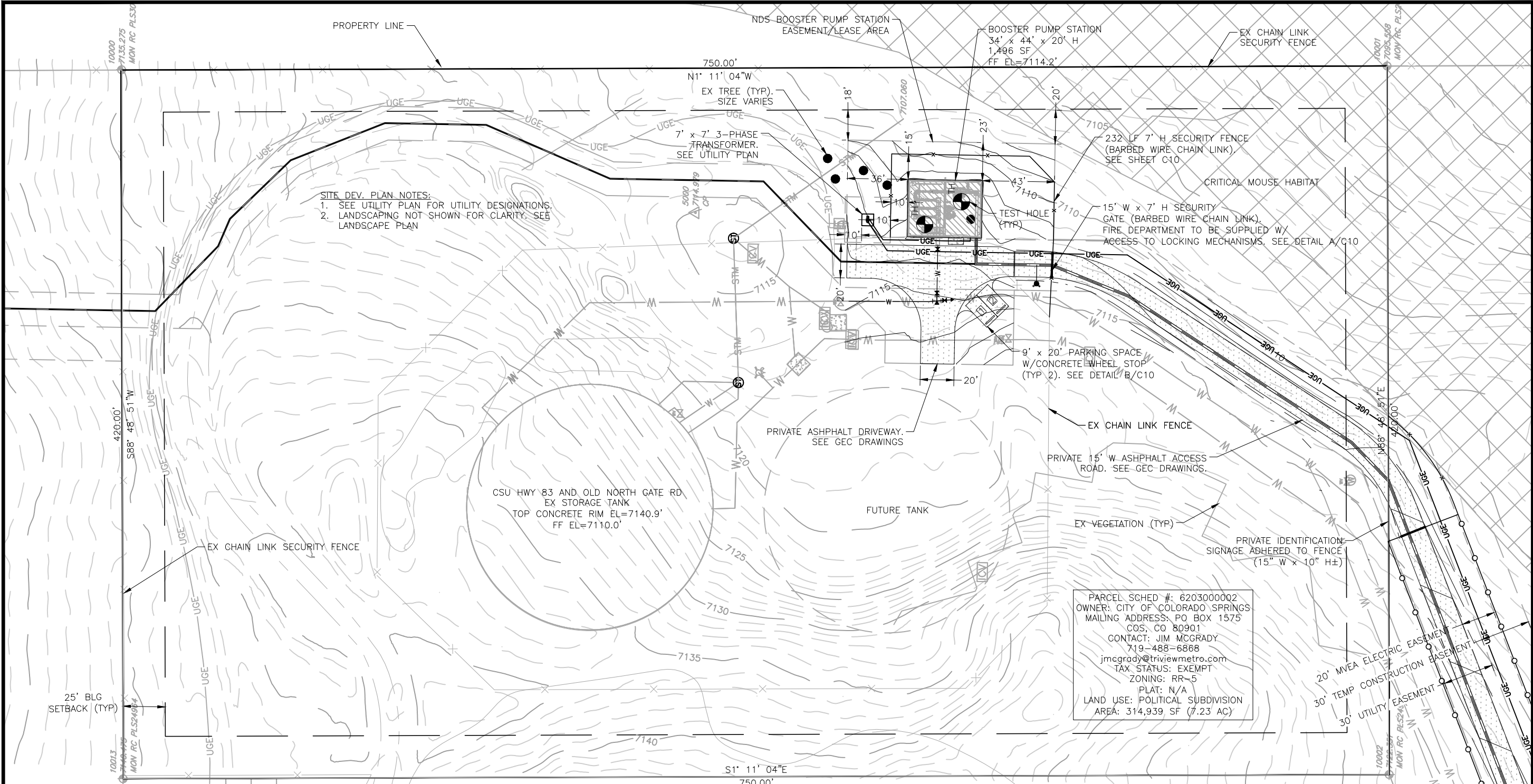
Project No.: W224.21029  
 Date: 09/12/22  
 Design: MLD  
 Drawn: GGM  
 Check: MLD

C1  
 SHEET --- OF ---

PCD File No. PPR-XX-XXX

2022/09/20 3:46 PM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\02\_Civil\22429\_Civil\_PS.dwg

2022/09/20 3:47 PM By: Alexis (Lead) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\02\_Civil\22429\_Civil\_PS.dwg



**SITE DEV. PLAN NOTES:**  
 1. SEE UTILITY PLAN FOR UTILITY DESIGNATIONS.  
 2. LANDSCAPING NOT SHOWN FOR CLARITY. SEE LANDSCAPE PLAN

PARCEL SCHED #: 6203000002  
 OWNER: CITY OF COLORADO SPRINGS  
 MAILING ADDRESS: PO BOX 1575  
 COS, CO 80901  
 CONTACT: JIM MCGRADY  
 719-488-6888  
 jimcgrady@triviewmetro.com  
 TAX STATUS: EXEMPT  
 ZONING: RR-5  
 PLAT: N/A  
 LAND USE: POLITICAL SUBDIVISION  
 AREA: 314,939 SF (7.23 AC)

**LEGAL DESCRIPTION:**

**PROPERTY**  
 TR OF LAND IN SEC 03-12-66 DESC AS FOLS: COM AT SW COR OF SD SEC 3, TH N 00°52'30" W 2644.43 FT TO W4 COR OF SEC 3, S 89°24'29" E 1317.41 FT TO NE COR OF NW4SW4 OF SEC 3 FOR POB, TH S 00°49'41" E 350.25 FT, S 89°10'19" W 420.0 FT, N 00°49'38" W 750.0 FT, N 89°10'19" E 420.0 FT, S 00°49'31" E 399.75 FT TO POB

**EASEMENT/LEASE AGREEMENT AREA TO BE DETERMINED**

**NOTES:**

- THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATION AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.
- FEMA 100-YR FLOODPLAIN NOT WITHIN SITE BOUNDARIES.
- UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND MANY NOT BE ALL INCLUSIVE. CONTRACTOR TO VERIFY.
- SEE GEC DRAWINGS FOR GRADING AND EROSION CONTROL DETAILS.
- SEE OVERALL SITE PLAN FOR ADJACENT PROPERTY OWNERSHIP.

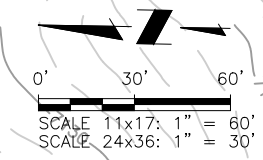
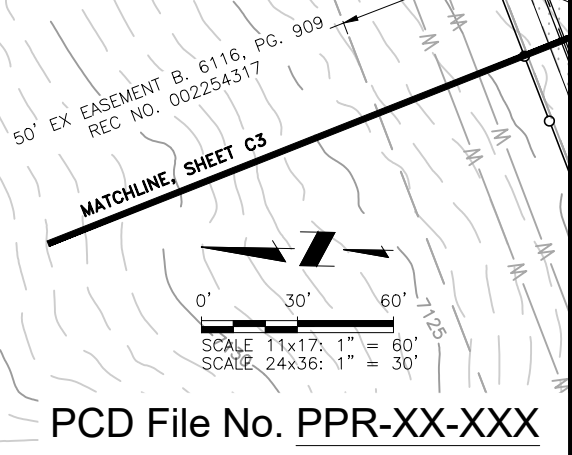
USE	RATIO	REQUIRED	PROVIDED	ADA
INDUSTRIAL	1 PER 750 SF	2	2	N/A

COVERAGE:	SF	%
PARCEL (REDUCED)	0	0.00%
STRUCTURES (PUMP STATION, TANKS)	0	0.00%
DRIVEWAY, PARKING, PADS	0	0.00%
LANDSCAPED AREA INCL. DISTURBED RE-SEED (PHASE 2)	0	0.00%
UNDISTURBED	0	0.00%
DENSITY	0	0.00%

APPLICANT/PLAN PREPARER:  
 JDS-HYDRO CONSULTANTS,  
 A DIVISION OF RESPEC  
 CONTACT: MARIO DIPASQUALE, P.E.  
 719-227-0072  
 mdipasquale@jds-hydro.com

LEGEND	
	PROPERTY LINE
	EASEMENT/LEASE AGREEMENT AREA
	EX FENCE
	EX WATER LINE
	EX UG ELECTRIC LINE
	EX OH ELECTRIC LINE
	EX TELEPHONE LINE
	EX ELEC POWER POLE
	EX FIRE HYDRANT
	EX TREE (SIZE VARIES)
	EX CONTOURS-MAJOR
	EX CONTOURS-MINOR
	PP UG ELECTRIC LINE
	PP WATER LINE
	PP FIRE HYDRANT
	PP FENCE (BARBED WIRE)
	PP FENCE (SPLIT RAIL)
	PP STAGING AREA (INITIAL)
	PP CONCRETE WASHOUT (INITIAL)
	PP VEHICLE TRAFFIC CIRCULATION PATH



**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION  
 SITE DEVELOPMENT PLAN AND ACCESS ROAD

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
4				
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6				
7				

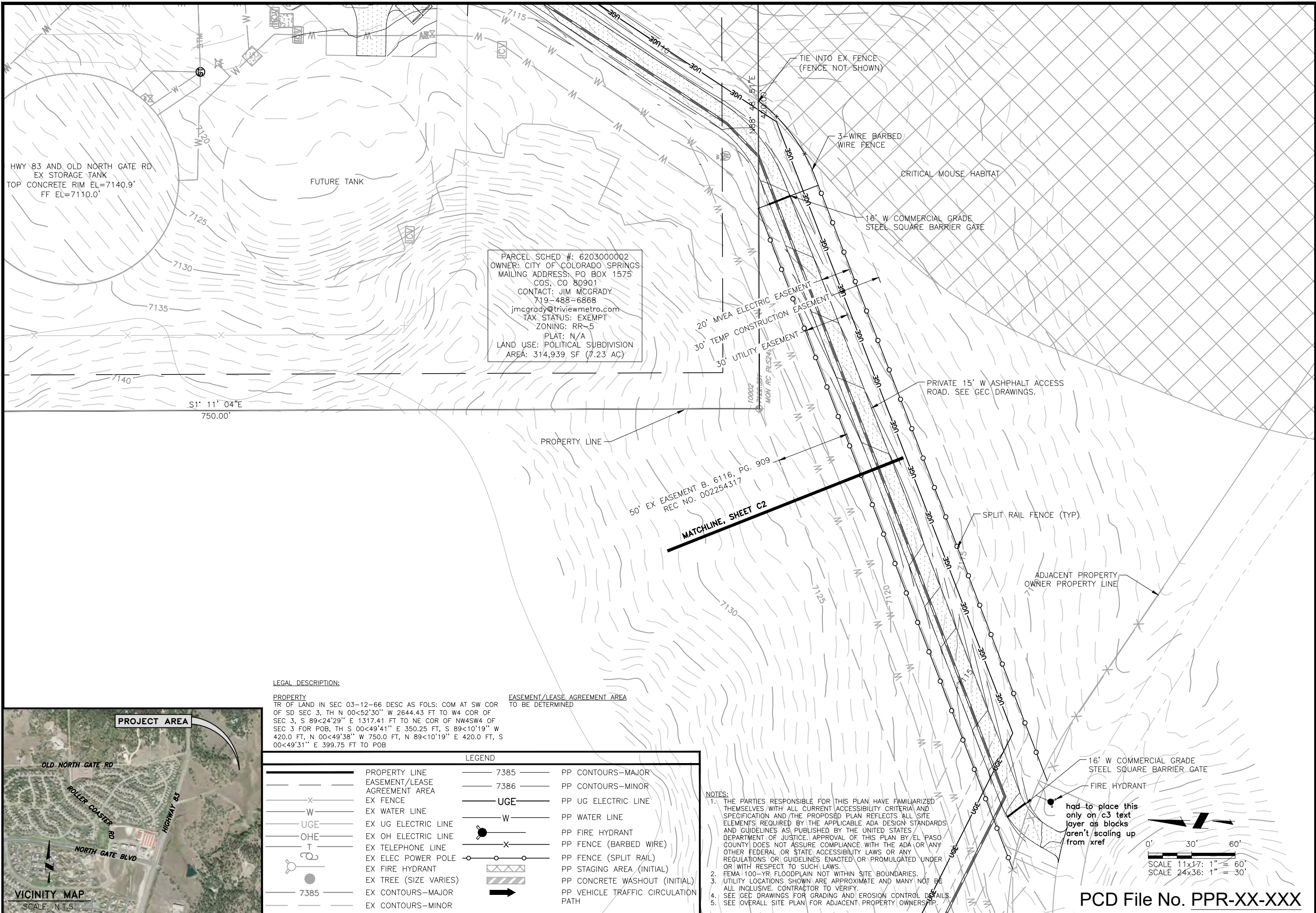
70% DESIGN

Project No.: W224.21029  
 Date: 09/12/22  
 Design: MLD  
 Drawn: GGM  
 Check: MLD

SHEET C2 OF

PCD File No. PPR-XX-XXX

2022/09/20 3:48 PM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\02\_Civil\22429\_Civil\_PS.dwg



HWY 83 AND OLD NORTH GATE RD  
EX STORAGE TANK  
TOP CONCRETE RIM EL=7140.9'  
FF EL=7110.0'

FUTURE TANK

PARCEL SCHED #: 6203000002  
OWNER: CITY OF COLORADO SPRINGS  
MAILING ADDRESS: PO BOX 1575  
COS, CO 80901  
CONTACT: JIM MCGRADY  
719-488-6868  
jmcgrady@triviewmetro.com  
TAX STATUS: EXEMPT  
ZONING: RR-5  
PLAT: N/A  
LAND USE: POLITICAL SUBDIVISION  
AREA: 314,939 SF (7.23 AC)

TIE INTO EX FENCE  
(FENCE NOT SHOWN)

3-WIRE BARBED  
WIRE FENCE

CRITICAL MOUSE HABITAT

16' W COMMERCIAL GRADE  
STEEL SQUARE BARRIER GATE

20' MVEA ELECTRIC EASEMENT

30' TEMP CONSTRUCTION EASEMENT

30' UTILITY EASEMENT

PRIVATE 15' W ASPHALT ACCESS  
ROAD. SEE GEC DRAWINGS.

PROPERTY LINE

50' EX EASEMENT B. 6116, PG. 909  
REC NO. 002254317

MATCHLINE, SHEET C2

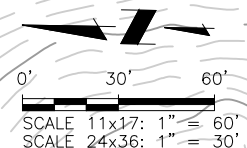
SPLIT RAIL FENCE (TYP)

ADJACENT PROPERTY  
OWNER PROPERTY LINE

16' W COMMERCIAL GRADE  
STEEL SQUARE BARRIER GATE

FIRE HYDRANT

had to place this  
only on c3 text  
layer as blocks  
aren't scaling up  
from xref



LEGAL DESCRIPTION:

**PROPERTY**  
TR OF LAND IN SEC 03-12-66 DESC AS FOLS: COM AT SW COR OF SD SEC 3, TH N 00<52'30" W 2644.43 FT TO W4 COR OF SEC 3, S 89<24'29" E 1317.41 FT TO NE COR OF NW4SW4 OF SEC 3 FOR POB, TH S 00<49'41" E 350.25 FT, S 89<10'19" W 420.0 FT, N 00<49'38" W 750.0 FT, N 89<10'19" E 420.0 FT, S 00<49'31" E 399.75 FT TO POB

**EASEMENT/LEASE AGREEMENT AREA**  
TO BE DETERMINED

LEGEND			
	PROPERTY LINE		PP CONTOURS-MAJOR
	EASEMENT/LEASE AGREEMENT AREA		PP CONTOURS-MINOR
	EX FENCE		PP UG ELECTRIC LINE
	EX WATER LINE		PP WATER LINE
	EX UG ELECTRIC LINE		PP FIRE HYDRANT
	EX OH ELECTRIC LINE		PP FENCE (BARBED WIRE)
	EX TELEPHONE LINE		PP FENCE (SPLIT RAIL)
	EX ELEC POWER POLE		PP STAGING AREA (INITIAL)
	EX FIRE HYDRANT		PP CONCRETE WASHOUT (INITIAL)
	EX TREE (SIZE VARIES)		PP VEHICLE TRAFFIC CIRCULATION PATH
	EX CONTOURS-MAJOR		
	EX CONTOURS-MINOR		

NOTES:

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- SEE OVERALL SITE PLAN FOR ADJACENT PROPERTY OWNERSHIP.



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5540 TECH CENTER DR, SUITE 100  
COLORADO SPRINGS, COLORADO 80919  
(719) 227-0072

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TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION  
SITE DEVELOPMENT PLAN AND ACCESS ROAD

NO.	DESCRIPTION	BY	APP.	DATE
1				
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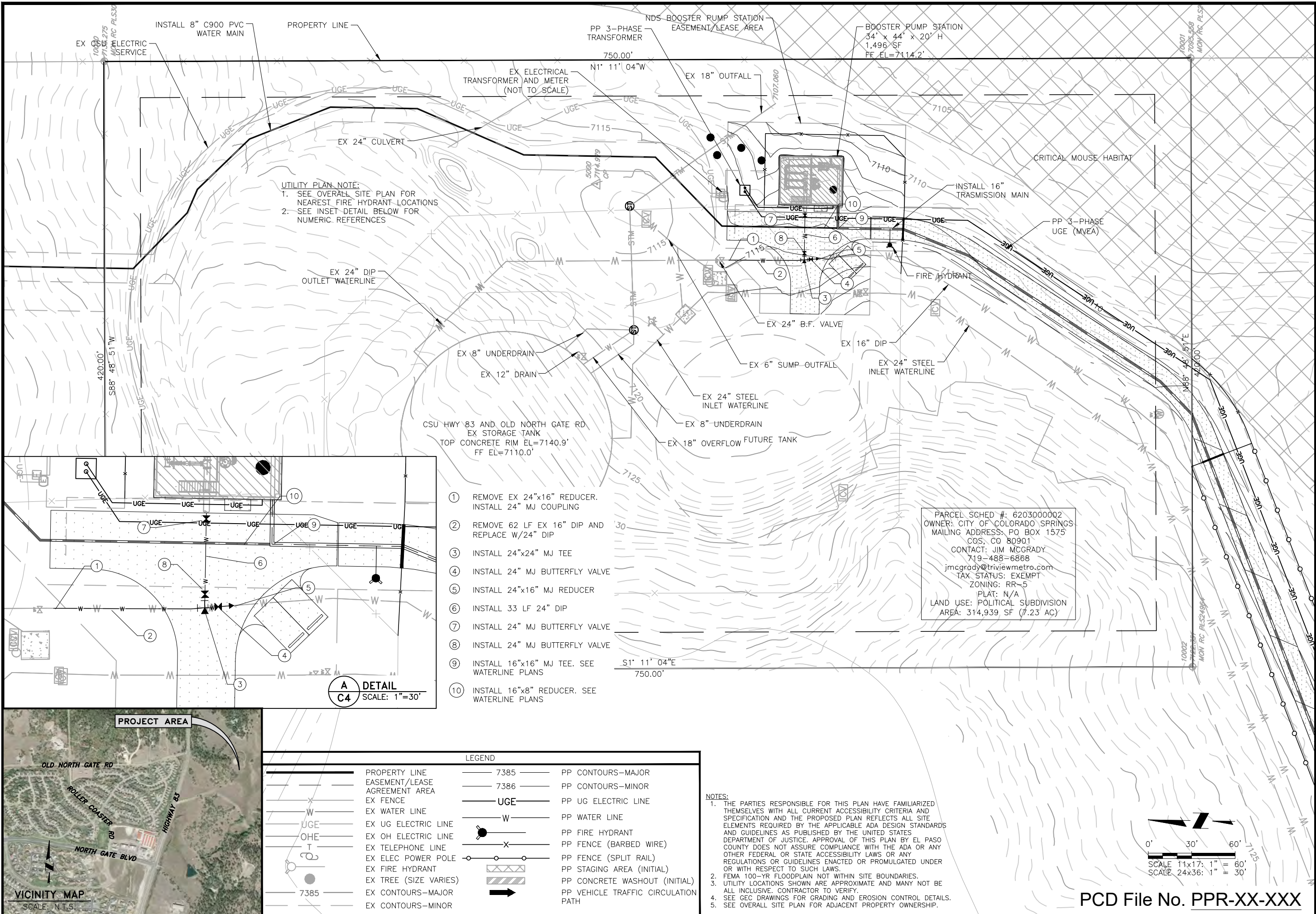
70% DESIGN

Project No.: W224.21029  
Date: 09/12/22  
Design: MLG  
Drawn: GGM  
Check: MLG

C3  
SHEET --- OF ---

PCD File No. PPR-XX-XXX

2022/09/20 3:50 PM By: Alexis (Lead) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\02\_Civil\22429\_Civil\_PS.dwg



**UTILITY PLAN NOTE:**  
 1. SEE OVERALL SITE PLAN FOR NEAREST FIRE HYDRANT LOCATIONS  
 2. SEE INSET DETAIL BELOW FOR NUMERIC REFERENCES

- ① REMOVE EX 24"x16" REDUCER. INSTALL 24" MJ COUPLING
- ② REMOVE 62 LF EX 16" DIP AND REPLACE W/24" DIP
- ③ INSTALL 24"x24" MJ TEE
- ④ INSTALL 24" MJ BUTTERFLY VALVE
- ⑤ INSTALL 24"x16" MJ REDUCER
- ⑥ INSTALL 33 LF 24" DIP
- ⑦ INSTALL 24" MJ BUTTERFLY VALVE
- ⑧ INSTALL 24" MJ BUTTERFLY VALVE
- ⑨ INSTALL 16"x16" MJ TEE. SEE WATERLINE PLANS
- ⑩ INSTALL 16"x8" REDUCER. SEE WATERLINE PLANS

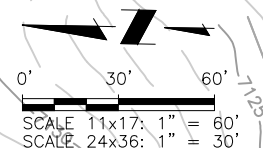
PARCEL SCHED #: 620300002  
 OWNER: CITY OF COLORADO SPRINGS  
 MAILING ADDRESS: PO BOX 1575  
 COS, CO 80901  
 CONTACT: JIM MCGRADY  
 719-488-6888  
 jimcgrady@triviewmetro.com  
 TAX STATUS: EXEMPT  
 ZONING: RR-5  
 PLAT: N/A  
 LAND USE: POLITICAL SUBDIVISION  
 AREA: 314,939 SF (7.23 AC)

**A** DETAIL  
**C4** SCALE: 1"=30'



LEGEND	
	PROPERTY LINE
	EASEMENT/LEASE AGREEMENT AREA
	EX FENCE
	EX WATER LINE
	EX UG ELECTRIC LINE
	EX OH ELECTRIC LINE
	EX TELEPHONE LINE
	EX ELEC POWER POLE
	EX FIRE HYDRANT
	EX TREE (SIZE VARIES)
	EX CONTOURS-MAJOR
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	PP CONTOURS-MAJOR
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**NOTES:**  
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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION  
 UTILITY PLAN

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
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6				
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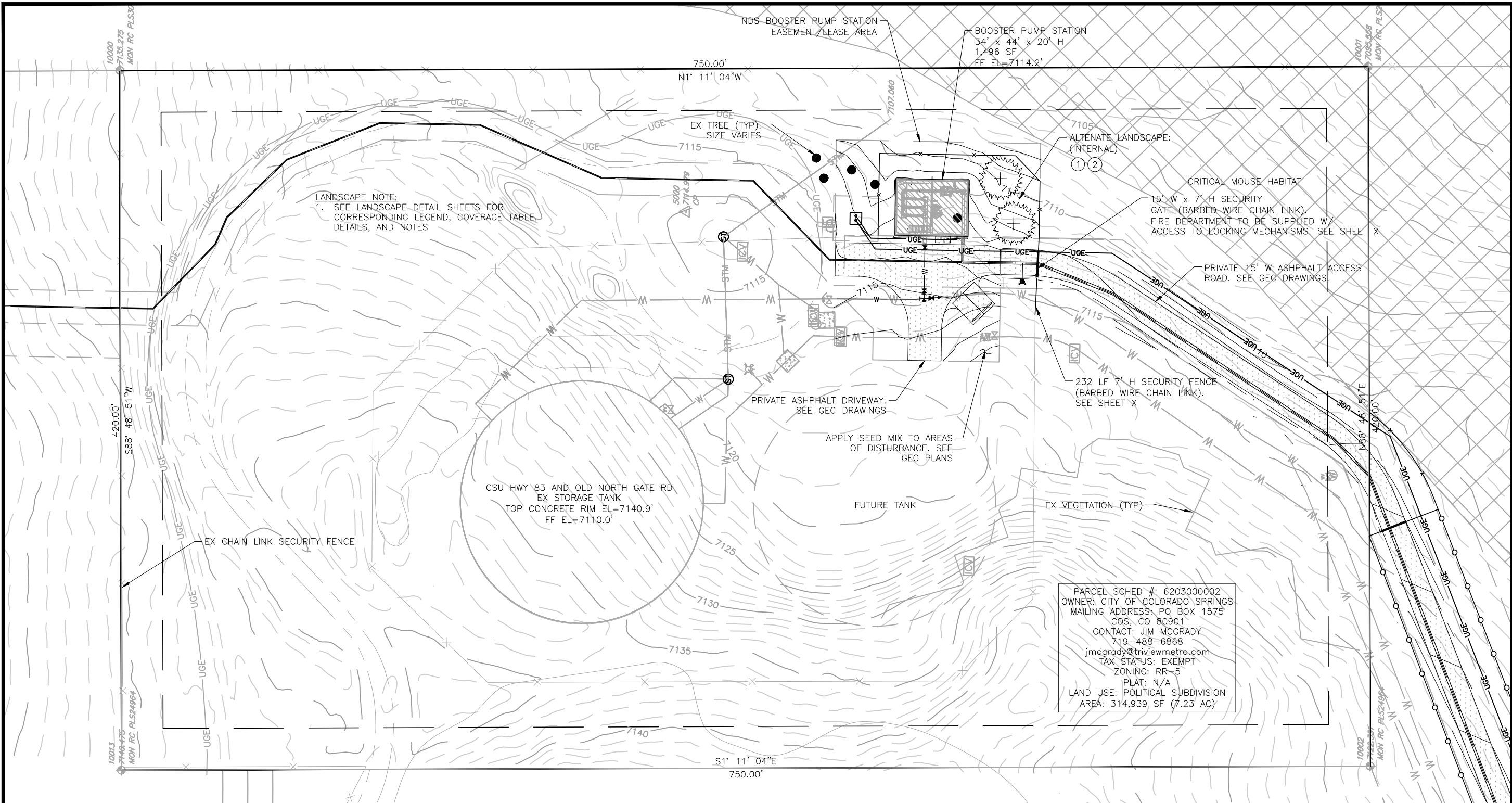
70% DESIGN

Project No.: W224.21029  
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 Drawn: GGM  
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C4  
 SHEET ---OF

2022/09/20 3:51 PM By: Alexis (Lead) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Pump Station\02\_Civil\22429\_Civil\_PS.dwg



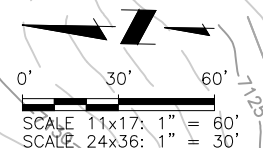
**LANDSCAPE NOTE:**  
1. SEE LANDSCAPE DETAIL SHEETS FOR CORRESPONDING LEGEND, COVERAGE TABLE, DETAILS, AND NOTES

PARCEL SCHED #: 620300002  
OWNER: CITY OF COLORADO SPRINGS  
MAILING ADDRESS: PO BOX 1575  
COS, CO 80901  
CONTACT: JIM MCGRADY  
719-488-6868  
jmcgrady@triviewmetro.com  
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LEGEND	
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	EASEMENT/LEASE AGREEMENT AREA
	EX FENCE
	EX WATER LINE
	EX UG ELECTRIC LINE
	EX OH ELECTRIC LINE
	EX TELEPHONE LINE
	EX ELEC POWER POLE
	EX FIRE HYDRANT
	EX TREE (SIZE VARIES)
	EX CONTOURS-MAJOR
	EX CONTOURS-MINOR
	PP CONTOURS-MAJOR
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TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM - BOOSTER PUMP STATION  
LANDSCAPE PLAN

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
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70% DESIGN

Project No.: W224.21029  
Date: 09/12/22  
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Drawn: GGM  
Check: MLD

PCD File No. PPR-XX-XXX

C7  
SHEET --- OF ---



# TRIVIEW METROPOLITAN DISTRICT NORTHERN DELIVERY SYSTEM

REVISION 1 - OCTOBER 2022

## LEGEND

---	EX PROPERTY LINE	====	PP SANITARY SEWER LINE ALIGNMENT
- - -	EX RIGHT-OF-WAY	====	PP WATER LINE ALIGNMENT
-X-	EX FENCE	(M)---	PP WATER METER & SERVICE
-W-	EX WATER LINE	5540	PP CONTOURS-MAJOR
-SS-	EX SANITARY SEWER LINE	-X-	PP CONTOURS-MINOR
-OHE-	EX O.H. ELECTRIC	UG-	PP U.G. ELECTRIC LINE
-UGE-	EX U.G. ELECTRIC LINE	~~~~~SF~~~~~	PP EROSION CONTROL SILT FENCE
-GAS-	EX U.G. GAS LINE	.....	PP EROSION CONTROL BALES
-TEL-	EX U.G. TELEPHONE LINE	XXXXXX	PP EROSION CONTROL LOG
-CTV-	EX U.G. CABLE LINE	--- ---	PP FIRE HYDRANT
5539	EX CONTOURS-MAJOR	--- ---	PP WATER LINE FITTING
---	EX CONTOURS-MINOR	--- ---	PP WATER VALVE
⊕	EX FIRE HYDRANT	⊗	PP WELL
⊕	EX WATER VALVE	⊗	PP SPOT ELEVATION
⊕	EX WATER MANHOLE		
⊕	EX SANITARY SEWER MANHOLE		
⊕	EX LIGHT POLE		
⊕	EX UTILITY POLE		
⊕	EX OVERHANGING LIGHT POLE		
⊕	EX SIGN		
⊕	EX VEGETATION (SIZE VARIES)		

# 70% DESIGN



VICINITY MAP  
N.T.S.

## SHEET INDEX

SHEET NUMBER	DESCRIPTION	SHEET NUMBER	DESCRIPTION
COVER SHEET			
GENERAL		SEGMENT B1	
G1	GENERAL NOTES	B1-01	PLAN & PROFILE: STATION 0+00 TO 5+00
G2	KEY MAP	B1-02	PLAN & PROFILE: STATION 5+00 TO 10+00
SEGMENT A1		B1-03	PLAN & PROFILE: STATION 10+00 TO 15+00
A1-01	PLAN & PROFILE: STATION 200+00 TO 207+00	B1-04	PLAN & PROFILE: STATION 15+00 TO 16+61
A1-02	PLAN & PROFILE: STATION 207+00 TO 214+00	SEGMENT B2	
A1-03	PLAN & PROFILE: STATION 214+00 TO 221+00	B2-01	PLAN & PROFILE: STATION 50+00 TO 55+00
A1-04	PLAN & PROFILE: STATION 221+00 TO 228+00	B2-02	PLAN & PROFILE: STATION 55+00 TO 60+00
A1-05	PLAN & PROFILE: STATION 228+00 TO 235+00	B2-03	PLAN & PROFILE: STATION 60+00 TO 65+00
A1-06	PLAN & PROFILE: STATION 235+00 TO 242+00	B2-04	PLAN & PROFILE: STATION 65+00 TO 66+77
A1-07	PLAN & PROFILE: STATION 242+00 TO 249+00	SEGMENT B3	
A1-08	PLAN & PROFILE: STATION 249+00 TO 256+50	B3-01	PLAN & PROFILE: STATION 100+00 TO 107+50
A1-09	PLAN & PROFILE: STATION 256+50 TO 263+00	B3-02	PLAN & PROFILE: STATION 107+50 TO 115+00
A1-10	PLAN & PROFILE: STATION 263+00 TO 270+00	B3-03	PLAN & PROFILE: STATION 115+00 TO 123+00
A1-11	PLAN & PROFILE: STATION 270+00 TO 277+00	B3-04	PLAN & PROFILE: STATION 123+00 TO 129+50
SEGMENT A2		SEGMENT B4	
A2-01	PLAN & PROFILE: STATION 300+00 TO 308+00	B4-01	PLAN & PROFILE: STATION 129+50 TO 137+00
A2-02	PLAN & PROFILE: STATION 308+00 TO 316+00	B4-02	PLAN & PROFILE: STATION 137+00 TO 145+00
A2-03	PLAN & PROFILE: STATION 316+00 TO 324+00	B4-03	PLAN & PROFILE: STATION 145+00 TO 152+40
A2-04	PLAN & PROFILE: STATION 324+00 TO 332+00	CIVIL DETAILS	
A2-05	PLAN & PROFILE: STATION 332+00 TO 340+00	DET-1	CIVIL DETAILS
A2-06	PLAN & PROFILE: STATION 340+00 TO 348+00	DET-2	CIVIL DETAILS
A2-07	PLAN & PROFILE: STATION 348+00 TO 356+00	DET-3	CIVIL DETAILS
A2-08	PLAN & PROFILE: STATION 356+00 TO 364+00	DET-4	CIVIL DETAILS
A2-09	PLAN & PROFILE: STATION 364+00 TO 368+79	GEC PLANS PROVIDED AS A SEPARATE SET	
SEGMENT A3			
A3-01	PLAN & PROFILE: STATION 400+00 TO 408+00		
A3-02	PLAN & PROFILE: STATION 408+00 TO 416+00		
A3-03	PLAN & PROFILE: STATION 416+00 TO 424+00		
A3-04	PLAN & PROFILE: STATION 424+00 TO 431+00		
A3-05	PLAN & PROFILE: STATION 431+00 TO 439+00		
A3-06	PLAN & PROFILE: STATION 439+00 TO 447+00		
A3-07	PLAN & PROFILE: STATION 447+00 TO 454+38		
SEGMENT A4			
A4-01	PLAN AND PROFILE: STATION 0+00 TO		
A4-02	PLAN AND PROFILE: STATION		

**PRE-EXCAVATION CHECKLIST**

- Gas and Other Utility Lines Shown on Construction Plans
- Utility Notification Center of Colorado (UNCC)--Call at Least Two (2) Business Days Ahead--1-800-922-1987
- Utilities Located & Marked on the Ground
- Employees Briefed on Marking and Color Codes\*
- Employees Trained on Excavation and Safety Procedures for Natural Gas Lines
- When Excavation Approaches Gas Lines, Employees Must Expose Lines by Careful Probing and Hand-Digging

**COLOR CODE FOR MARKING UNDERGROUND UTILITY LINES**

WHITE	PROPOSED EXCAVATION
MAGENTA	TEMPORARY SURVEY MARKINGS
RED	ELECTRIC
YELLOW	GAS, OIL, STEAM
ORANGE	COMMUNICATION, CATV
BLUE	POTABLE WATER
PURPLE	IRRIGATION, RECLAIMED WATER, SLURRY LINES
GREEN	SEWER

**COLORADO 811**  
Always Call Before You Dig 811 or (800) 922-1987

## SURVEY DATA

HORIZONTAL DATUM: HORIZONTAL COORDINATES ARE MODIFIED COLORADO STATE PLANE CENTRAL BASED UPON THE FOLLOWING:  
 COORDINATES ARE SCALED FROM CONTROL POINT 5052 BEING A 2-INCH ALUMINUM CAP STAMPED AZTEC CP 52 SET AT THE TOP OF A DIRT BANK ALONG THE EAST SIDE OF GLEN EAGLE DR. APPROXIMATELY 380+/- FEET NORTHERLY OF ST. LAWRENCE WAY. VALUES ARE BASED UPON A STATIC SURVEY SESSION WITH THE FOLLOWING RESULTS:  
 LATITUDE: 39-04-05916N  
 LONGITUDE: 104-49-24.82486 W  
 STATE PLANE NORTHING: 1,450,401.759  
 STATE PLANE EASTING: 3,192,049.712  
 SCALE FACTOR: 1.0004063250  
 TRUNCATE NORTHING 1,000,000.00  
 TRUNCATE EASTING 3,000,000.00  
 PROJECT NORTHING: 450,401.759  
 PROJECT EASTING: 192,049.712

VERTICAL DATUM: NAVD 88 WITH GEOID G18US  
 BENCHMARK: CP 5052 EL: 7213.70  
 BENCHMARK: NGS CS 110 / DM9842 EL: 6843.25  
 Benchmark NGS S294/KK0272 EL: 7116.72

UTILITIES SHOWN WITHIN THE SURVEY HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION, EXISTING DRAWINGS AND/OR UTILITY LOCATE MARKINGS. THE SURVEYOR NOR ENGINEER MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR AND ENGINEER FURTHER DO NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

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 (719) 227-0072

THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATION AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY THE CITY OF FOUNTAIN DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY OTHER FEDERAL OR STATE ACCESSIBILITY LAWS OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

## PARTICIPANTS

**OWNER**  
 TRIVIEW METROPOLITAN DISTRICT  
 16055 OLD FOREST POINT #300  
 MONUMENT, CO 80132  
 CONTACT: JIM MCGRADY  
 PHONE: (719) 488-6868

**CONSULTING/DESIGN ENGINEER**  
 JDS-HYDRO CONSULTANTS  
 A DIVISION OF RESPEC  
 5540 TECH CENTER DR, STE 100  
 COLORADO SPRINGS, CO 80903  
 CONTACT: MARIO DIPASQUALE, PE  
 PHONE: (719) 227-0072

## SIGNATURE BLOCKS

**TRIVIEW METROPOLITAN DISTRICT APPROVAL:**  
 THE TRIVIEW METROPOLITAN DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE TRIVIEW METROPOLITAN DISTRICT HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

DISTRICT MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
 224.29 \_\_\_\_\_  
 PROJECT NO.

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT, THE STANDARDS AS DEFINED IN THE "WATER UTILITY POLICIES AND STANDARDS" SHALL RULE. IT IS THE RESPONSIBILITY OF THE SITE ENGINEER AND GENERAL CONTRACTOR TO ENSURE CONSTRUCTION IS IN COMPLIANCE.

**ENGINEER'S STATEMENT**  
 THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE TRIVIEW METROPOLITAN DISTRICT.

MARIO L. DIPASQUALE, P.E. #41667 \_\_\_\_\_ DATE \_\_\_\_\_

2022/09/20 11:12 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\General\224.29\_Cover.dwg

TRIVIEW METRO DISTRICT GENERAL NOTES:

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE SITE WORK STANDARDS AND SPECIFICATIONS, THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE TRIVIEW METROPOLITAN DISTRICT DESIGN CRITERIA & CONSTRUCTION SPECIFICATIONS, AND APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY TRIVIEW METROPOLITAN DISTRICT. THE DISTRICTS WILL ALSO INSPECT ALL WORK ON PRIVATE PROPERTY.
2. THE TRIVIEW METROPOLITAN DISTRICT DESIGN CRITERIA & CONSTRUCTION SPECIFICATIONS MANUALS ARE CONSIDERED PART OF THIS CONSTRUCTION DRAWING SET. THIS DESIGN AND PLAN SET IS INCOMPLETE WITHOUT THESE SPECIFICATIONS MANUALS. THE CONTRACTOR SHALL OBTAIN A COPY OF THESE MANUALS AND BE FAMILIAR WITH THEM FOR ALL CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO ACTUAL CONSTRUCTION. ALL EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION OF RECORD. THE CONTRACTOR IS RESPONSIBLE FOR TAKING PRECAUTIONARY MEASURES TO PROTECT THE EXISTING UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS AND AGREES TO ACCEPT FULL RESPONSIBILITY FOR FAILURE TO LOCATE AND PRESERVE ANY EXISTING UTILITIES. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE TRIVIEW METROPOLITAN DISTRICT AND ALL UTILITY COMPANIES INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH THE MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE TRIVIEW METROPOLITAN DISTRICT INSPECTORS AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY, OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ALL PERMITS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
8. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND THE TRIVIEW METROPOLITAN DISTRICT INSPECTORS IMMEDIATELY.
9. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
10. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH M.U.T.C.D. TO THE TOWN OF MONUMENT FOR APPROVAL, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING, THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, OR CONSTRUCTED, UNLESS SPECIFICALLY NOTED OTHERWISE.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-BUILT INFORMATION ON THE SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE, WHICH SHALL BE AVAILABLE TO THE TRIVIEW METROPOLITAN DISTRICT INSPECTORS AT ALL TIMES. A REPRODUCIBLE SET OF AS-BUILT DRAWINGS MUST BE FURNISHED TO TRIVIEW METROPOLITAN DISTRICT AT THE COMPLETION OF THE PROJECT, PRIOR TO FINAL APPROVAL BY THE TRIVIEW METROPOLITAN DISTRICT.
14. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE ENGINEER-OF-RECORD FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
15. ALL STRUCTURAL EROSION CONTROL MEASUREMENTS SHALL BE INSTALLED, AT THE LIMITS OF CONSTRUCTION, PRIOR TO ANY OTHER GROUND DISTURBING ACTIVITY. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BE THE CONTRACTOR, UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

16. THE CONTRACTOR SHALL SEQUENCE THE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES.
17. NO SITE-RELATED IMPROVEMENTS MAY COMMENCE UNTIL A PRE-CONSTRUCTION MEETING IS HELD WITH THE TRIVIEW METROPOLITAN DISTRICT AND ALL APPLICABLE PERMITS ARE OBTAINED.
18. THE CONTRACTOR MUST IDENTIFY TO THE TRIVIEW METROPOLITAN DISTRICT, PRIOR TO THE START OF ANY WORK, A QUALIFIED PLAN PERSON RESPONSIBLE FOR REVIEWING AND MONITORING ALL OPERATIONS IN ORDER TO PREVENT OR MINIMIZE THE IMPACT OF VIBRATION, NOISE, DUST, DRAINAGE, AND EROSION DAMAGE, AND OTHER FORMS OF POLLUTION ON NEARBY PROPERTY AND THE PUBLIC AS A WHOLE. THE DEVELOPER MUST WRITE TO THE OWNERS/OCCUPANTS OF PROPERTIES WITHIN AT LEAST 100 YARDS OF THE LIMITS OF THE WORKSITE, INFORMING THEM OF THE NATURE AND TIMING OF THE PROJECT AND PROVIDING CONTACT DETAILS FOR COMPLAINTS.

GENERAL CONSTRUCTION NOTES:

1. THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING IMPROVEMENTS TO BE MET BY THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION. ANY SIGNIFICANT DISCREPANCIES FOUND BETWEEN THIS PLAN SET AND ACTUAL FIELD CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER OF RECORD FOR APPROPRIATE ACTION.
2. THE CONTRACTOR IS ADVISED THAT ALL EXISTING CONDITIONS OUTSIDE THE AREA OF WORK SHALL BE PROTECTED, IF DAMAGE OCCURS DURING CONSTRUCTION, IT WILL BE REPLACED IN THE ORIGINAL, EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND ROUTING DURING CONSTRUCTION, IF REQUIRED. TWO-WAY TRAFFIC SHALL BE MAINTAINED THROUGH THE WORK AREA AT ALL TIMES.
4. ALL DISTURBED AREAS THAT ARE TO REMAIN UNCOVERED FOR A PERIOD GREATER THAN 2 MONTHS SHALL BE RESEEDED AND WATERED UNTIL STABLE VEGETATION IS ESTABLISHED.
5. AT LEAST ONE SIGNED AND STAMPED SET OF THESE CONSTRUCTION DRAWINGS SHALL BE KEPT ON-SITE AT ALL TIMES.
6. ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE TRIVIEW METROPOLITAN DISTRICT, AND THE DISTRICTS' ENGINEERS. ANY REVISION OF THE PLANS SHALL BE SO NOTED, WITH THE OLD DRAWINGS MARKED NOT VALID.
7. ALL STATIONING IS CENTER LINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE CENTER LINE UNLESS OTHERWISE NOTED.
8. ALL BURIED DUCTILE IRON PIPE, INCLUDING FITTINGS, VALVES AND FIRE HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED.
9. ALL DUCTILE IRON PIPE LESS THAN 12 INCHES AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRE WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING.
10. ALL MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH TRACER WIRE WITH TEST STATIONS EVERY 500 FT (UNLESS VALVE BOXES CAN BE USED AT INTERSECTIONS AND SERVICE STUBS).
11. ALL PIPE MATERIAL, BACKFILL AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS, COLORADO DEPARTMENT OF TRANSPORTATION, EL PASO COUNTY DEPARTMENT OF TRANSPORTATION, COLORADO SPRINGS UTILITIES AND THE GEOTECHNICAL ENGINEER.
12. COMPACTION TESTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE DISTRICT OR HIGHER STANDARD AS IMPOSED BY ANOTHER AGENCY HAVING RIGHT-OF-WAY JURISDICTION. THIS SHALL INCLUDE ALL VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES AND MANHOLES. ALL REPORTS SHALL BE SUBMITTED TO THE TRIVIEW METROPOLITAN DISTRICT FOR REVIEW AND APPROVAL.
13. ALL BENDS SHALL BE STAKED PRIOR TO THE START OF CONSTRUCTION.
14. ALL UNUSED SALVAGED WATER UTILITY MATERIAL SHALL BE RETURNED TO THE TRIVIEW METROPOLITAN DISTRICT AS REQUESTED.
15. AT THE CONTRACTOR'S EXPENSE ALL UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED SUCH THAT THEY FUNCTION CONTINUOUSLY DURING CONSTRUCTION OPERATIONS. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR OR THE METROPOLITAN DISTRICTS AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR/DEVELOPER.
16. THE CONTRACTOR SHALL REPLACE OR REPAIR DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB AND GUTTER AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
17. ALL CONTRACTORS WORKING ON OR NEAR A WATER OR SEWER FACILITY (TO INCLUDE SERVICE LINES) SHALL HAVE LIABILITY INSURANCE NAMING THE TRIVIEW METROPOLITAN DISTRICT AS ADDITIONAL INSURERS AND SHALL PROVIDE A CURRENT COPY OF WORKERS COMPENSATION INSURANCE ON FILE WITH THE DISTRICTS. NO WORK CAN PROCEED WITHOUT CURRENT CERTIFICATES ON FILE AT THE DISTRICT OFFICE.

18. THE CONTRACTOR SHALL NOTIFY THE TRIVIEW METROPOLITAN DISTRICT (488-6868), AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A WEEKLY CONSTRUCTION MEETING SHALL BE REQUIRED WITH THE CONTRACTOR, DISTRICT ENGINEERS AND ALL OTHER PARTIES AS DEEMED NECESSARY BY THE DISTRICTS.
19. COMMENCEMENT OF CONSTRUCTION OF WATER/SEWER SYSTEMS WITHIN DISTRICTS:
  - 19.1. PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING IS REQUIRED A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. A REPRESENTATIVE OF THE OWNER OR DEVELOPER, A REPRESENTATIVE OF THE CONTRACTOR, AND THE DESIGN ENGINEER ARE REQUIRED TO ATTEND. CONTACT THE TRIVIEW METROPOLITAN DISTRICT (488-6868) TO SCHEDULE THE PRE-CONSTRUCTION MEETING. NO PRE-CONSTRUCTION MEETING CAN BE SCHEDULED UNTIL THREE (3) SIGNED/APPROVED PLAN SETS ARE RECEIVED BY THE METROPOLITAN DISTRICTS.
  - 19.2. THE CONTRACTOR IS REQUIRED TO NOTIFY THE TRIVIEW METROPOLITAN DISTRICT (488-6868) A MINIMUM OF 48 HOURS AND A MAXIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.
20. PRESSURE TESTING OF FACILITIES:
  - 20.1. THE CONTRACTOR SHALL NOTIFY THE TRIVIEW METROPOLITAN DISTRICT (488-6868) A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING.
  - 20.2. ALL SECTIONS OF WATER LINE ARE TO MEET THE FOLLOWING PRESSURE TESTING REQUIREMENTS
    - 20.2.1. TEST 100% OF ALL LINES.
    - 20.2.2. MUST PASS PRESSURE TEST TO 200 PSI FOR TWO HOURS (UNLESS OTHERWISE APPROVED ON THE PLANS)
21. DISINFECTION OF FACILITIES:
  - 21.1. THE CONTRACTOR SHALL DISINFECT ALL DOMESTIC WATERLINES ACCORDING TO AWWA STANDARDS B-300 AND C-601, INCLUDING PRELIMINARY FLUSHING, CHLORINATION, AND FINAL FLUSHING.
  - 21.2. THE CONTRACTOR SHALL COLLECT SAMPLES FROM END OF PIPELINE AFTER FINAL FLUSHING AND PRIOR TO PLACING WATERLINES IN SERVICE AND TEST FOR COLIFORM ORGANISMS. THE NUMBER AND FREQUENCY OF SAMPLES SHALL CONFORM WITH THE REQUIREMENTS OF THE PUBLIC HEALTH AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL PAY FOR THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO PERFORM SAMPLING AND TESTING AS REQUIRED.
  - 21.3. REPEAT DISINFECTION UNTIL SATISFACTORY SAMPLES HAVE BEEN OBTAINED IF INITIAL OR SUBSEQUENT DISINFECTION FAILS TO PRODUCE SATISFACTORY SAMPLES.
22. COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS:
  - 22.1. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL AFTER THE COMPLETION OF ALL PRESSURE TESTING, FLUSHING, DISINFECTION, BAC-T TESTING, AND COMPACTION TESTING, AND UNTIL AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.
  - 22.2. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO THE USE OF THE FACILITY.
  - 22.3. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICTS, AND RECORDED.
23. ALL WATER LINES SHALL HAVE "AS BUILT" PLANS PREPARED AND APPROVED PRIOR TO PRELIMINARY ACCEPTANCE BY THE DISTRICT.
24. SUBSURFACE UTILITY ENGINEERING
  - 24.1. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38, "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
  - 24.2. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.

**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 GENERAL NOTES

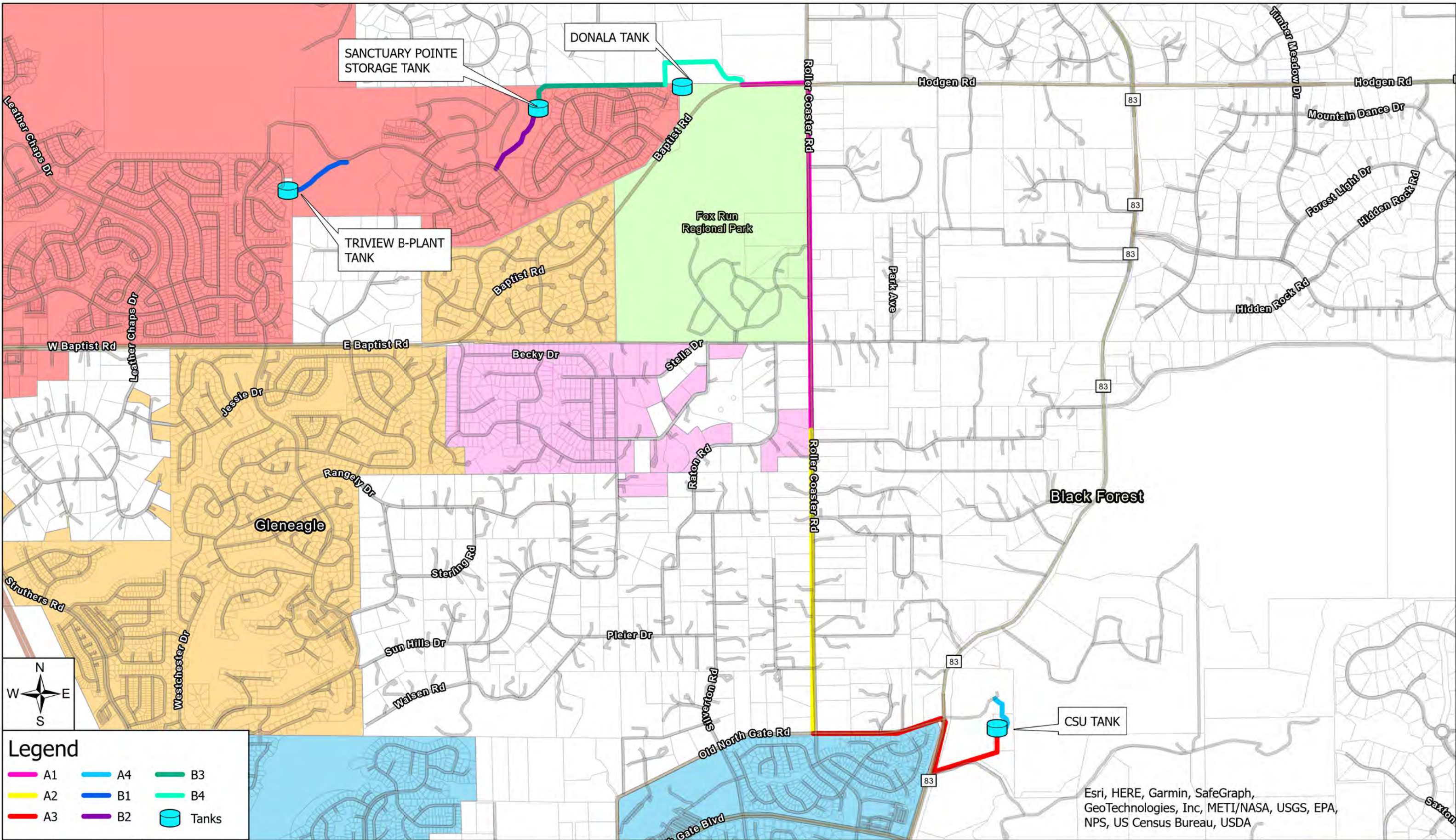
NO.	REVISIONS		DATE
	DESCRIPTION	BY APP.	
1			
2			
3			
4			
5			
6			
7			

**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**G1**

SHEET ---- OF



**Legend**

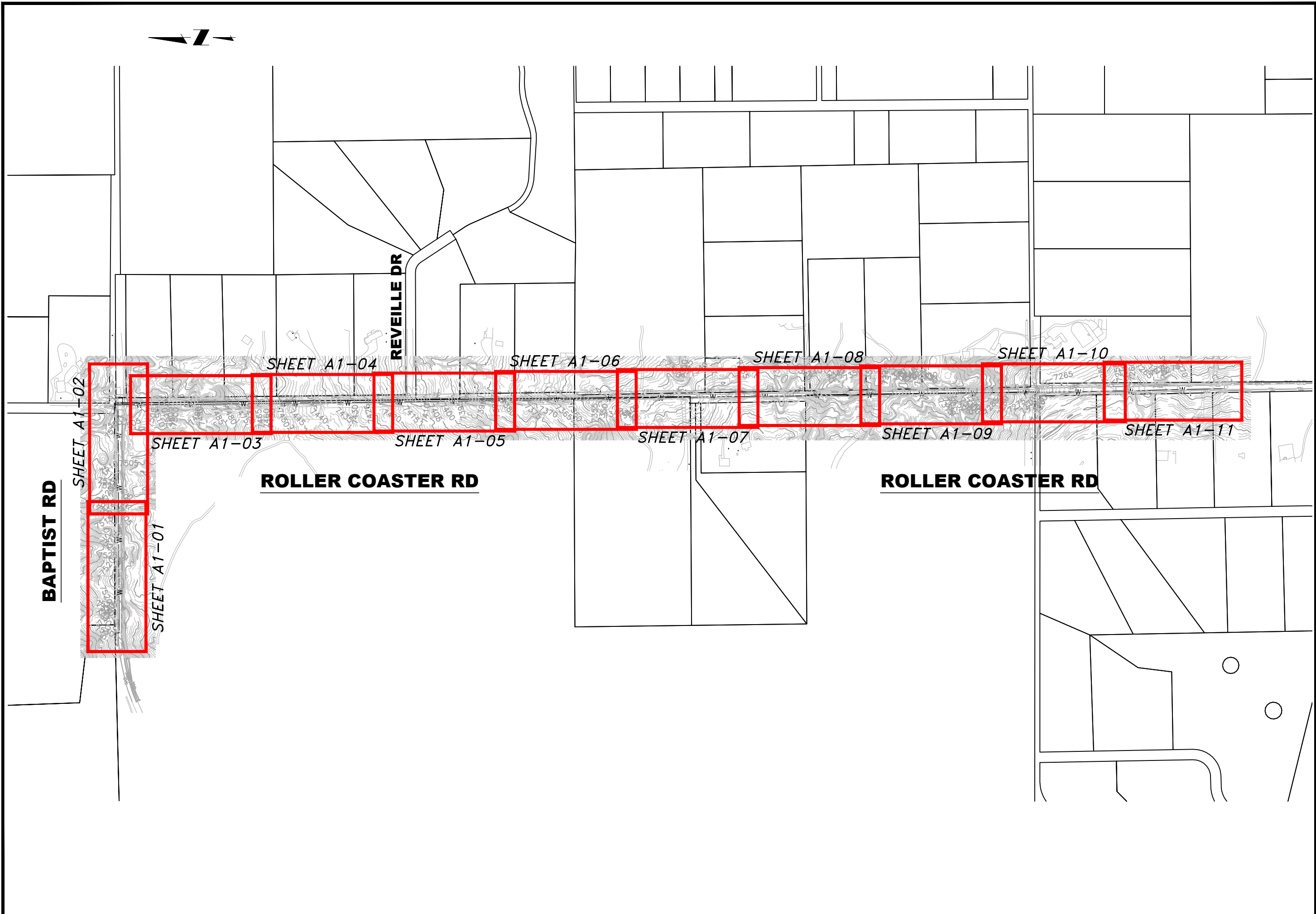
A1	A4	B3
A2	B1	B4
A3	B2	Tanks

Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

## NORTHERN DELIVERY SYSTEM KEY MAP



2022/10/07 10:29 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1\_North.dwg



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TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM  
SEGMENT A1 KEY MAP

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
4				
5				
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7				

70% DESIGN

Project No.: 224.29  
Date: 06/03/22  
Design: GJD  
Drawn: JLB  
Check: MLD

SHEET ---- OF

ALL UTILITIES DEPICTED AS QL B UNLESS NOTED OTHERWISE.

QLB DATA SUMMARY:

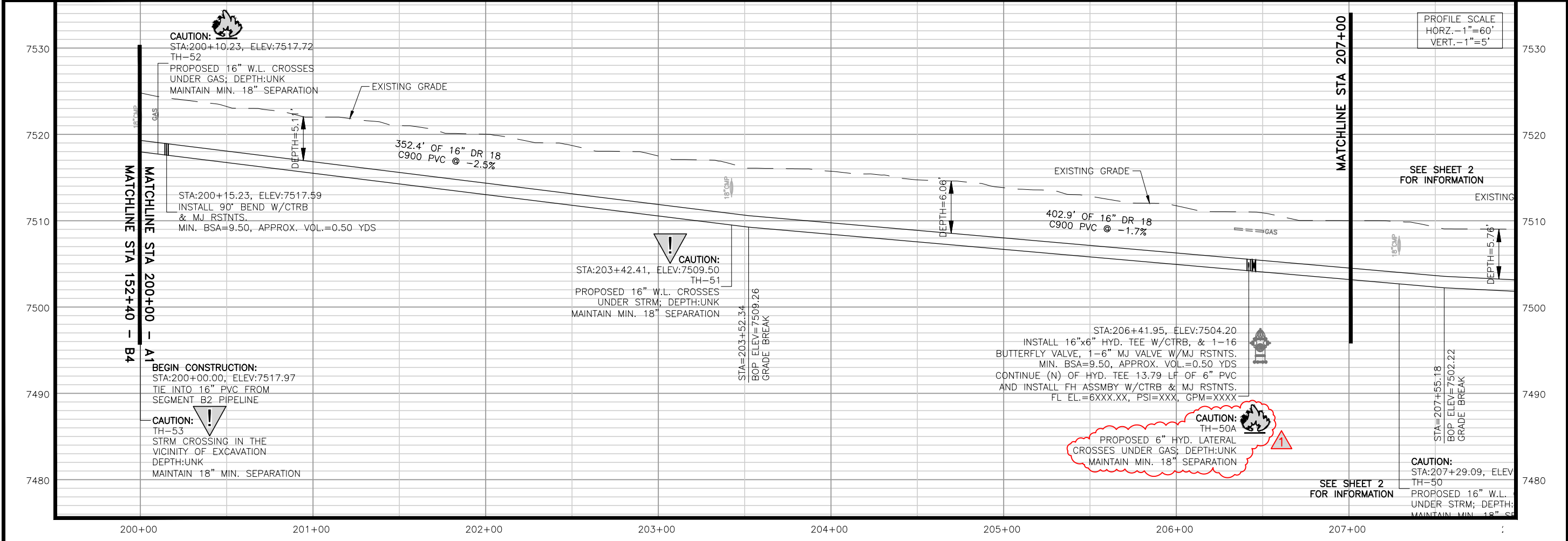
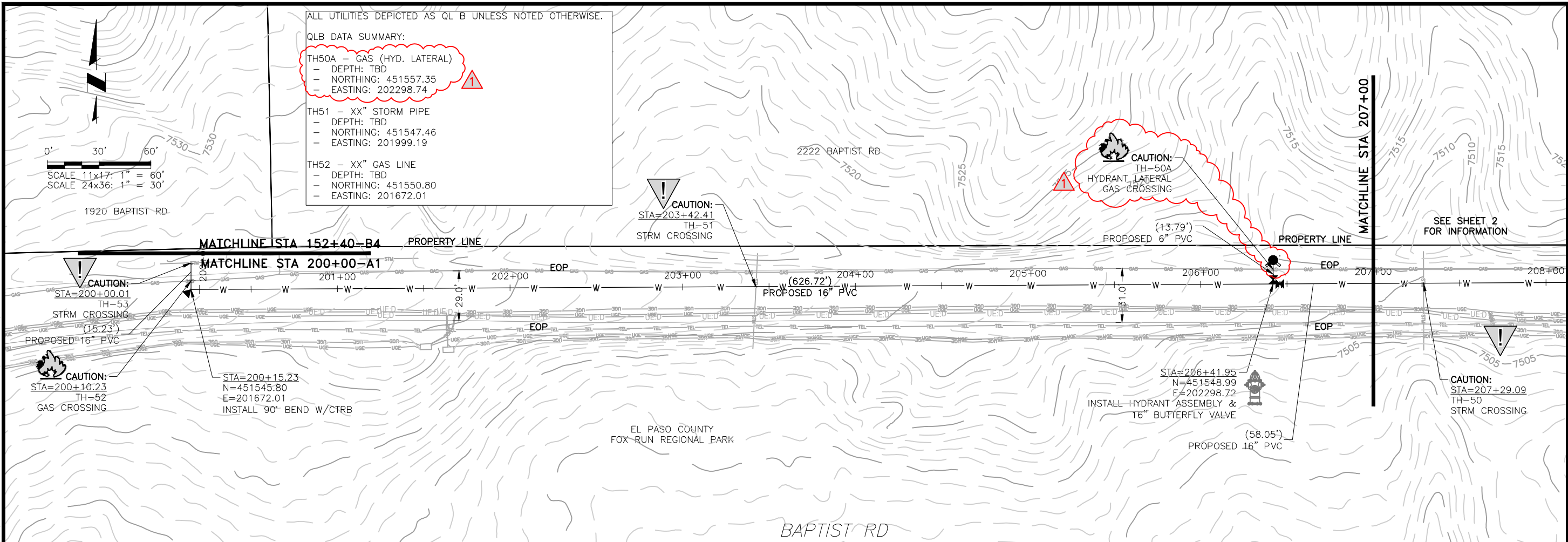
TH50A - GAS (HYD. LATERAL)  
 - DEPTH: TBD  
 - NORTHING: 451557.35  
 - EASTING: 202298.74

TH51 - XX" STORM PIPE  
 - DEPTH: TBD  
 - NORTHING: 451547.46  
 - EASTING: 201999.19

TH52 - XX" GAS LINE  
 - DEPTH: TBD  
 - NORTHING: 451550.80  
 - EASTING: 201672.01

0' 30' 60'

SCALE 11x17: 1" = 60'  
 SCALE 24x36: 1" = 30'



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 - PLAN AND PROFILE  
 STATION 200+00 TO 207+00

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JLB		10/05/22
2				
3				
4				
5				
6				
7				

70% DESIGN

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A1-01**  
 SHEET --- OF ---

2022/10/07 10:31 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1 - North.dwg

ALL UTILITIES DEPICTED AS QL B UNLESS NOTED OTHERWISE.

QLB DATA SUMMARY:  
 TH44 - (2) UNDERGROUND COMMUNICATIONS  
 - DEPTH: TBD  
 - NORTHING: 451501.33  
 - EASTING: 202985.10

TH45 - UNDERGROUND COMMUNICATIONS  
 - DEPTH: TBD  
 - NORTHING: 451552.45  
 - EASTING: 202977.88

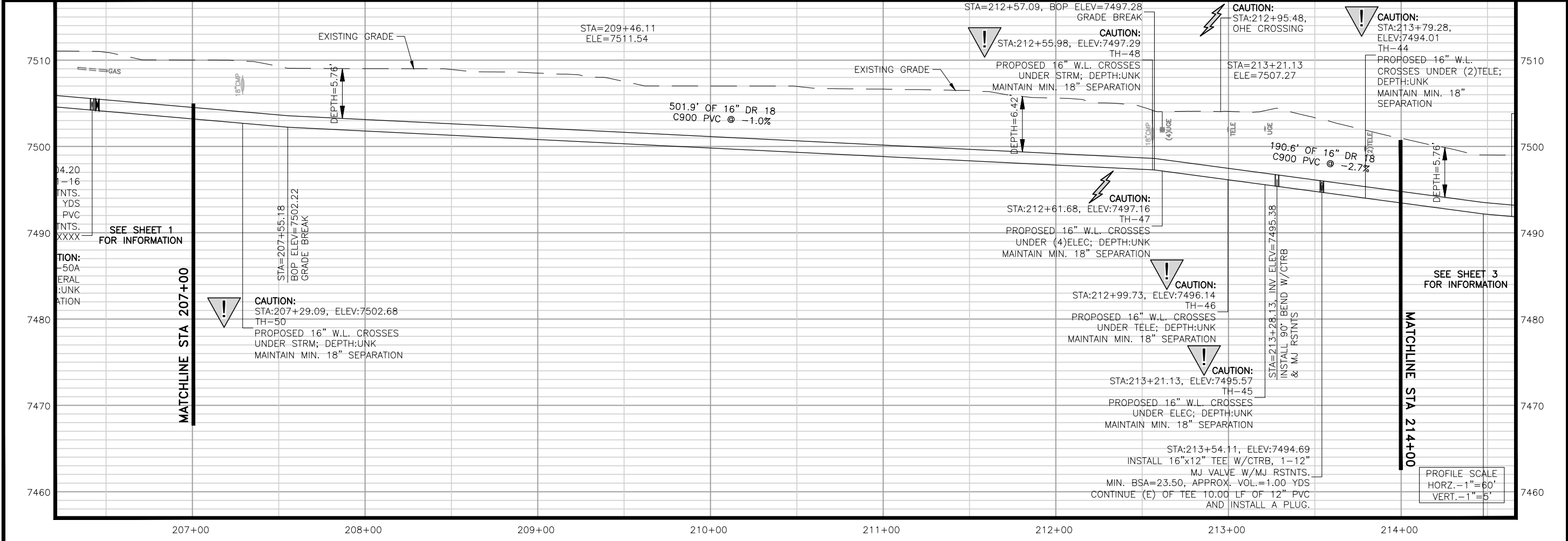
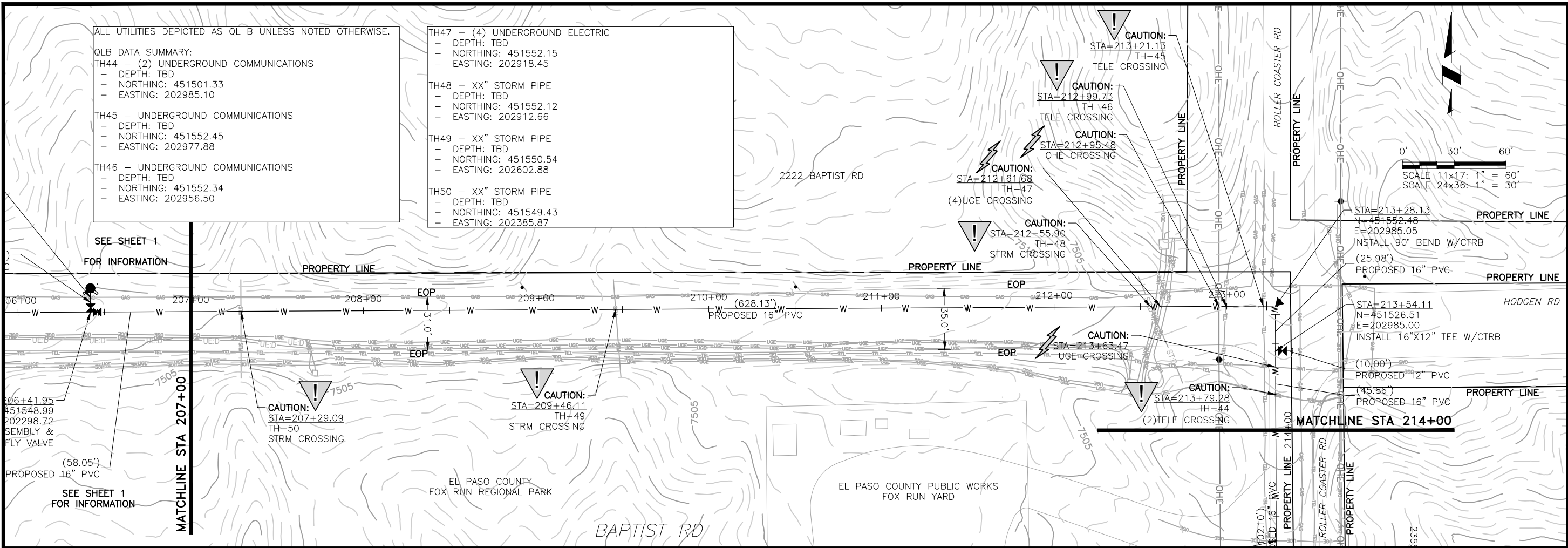
TH46 - UNDERGROUND COMMUNICATIONS  
 - DEPTH: TBD  
 - NORTHING: 451552.34  
 - EASTING: 202956.50

TH47 - (4) UNDERGROUND ELECTRIC  
 - DEPTH: TBD  
 - NORTHING: 451552.15  
 - EASTING: 202918.45

TH48 - XX" STORM PIPE  
 - DEPTH: TBD  
 - NORTHING: 451552.12  
 - EASTING: 202912.66

TH49 - XX" STORM PIPE  
 - DEPTH: TBD  
 - NORTHING: 451550.54  
 - EASTING: 202602.88

TH50 - XX" STORM PIPE  
 - DEPTH: TBD  
 - NORTHING: 451549.43  
 - EASTING: 202385.87



**JDS-HYDRO** a Division of **RESPEC**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 277-0072

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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 - PLAN AND PROFILE  
 STATION 207+00 TO 214+00

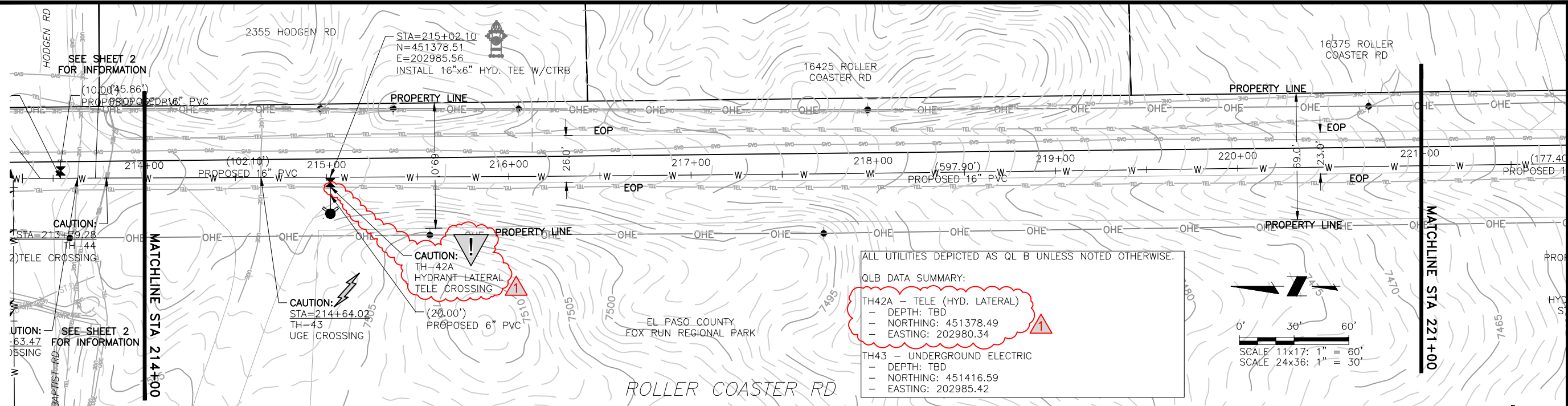
NO.	DESCRIPTION	BY	APP.	DATE
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4				
5				
6				
7				

**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A1-02**  
 SHEET ---OF

2022/10/07 10:31 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1\_North.dwg

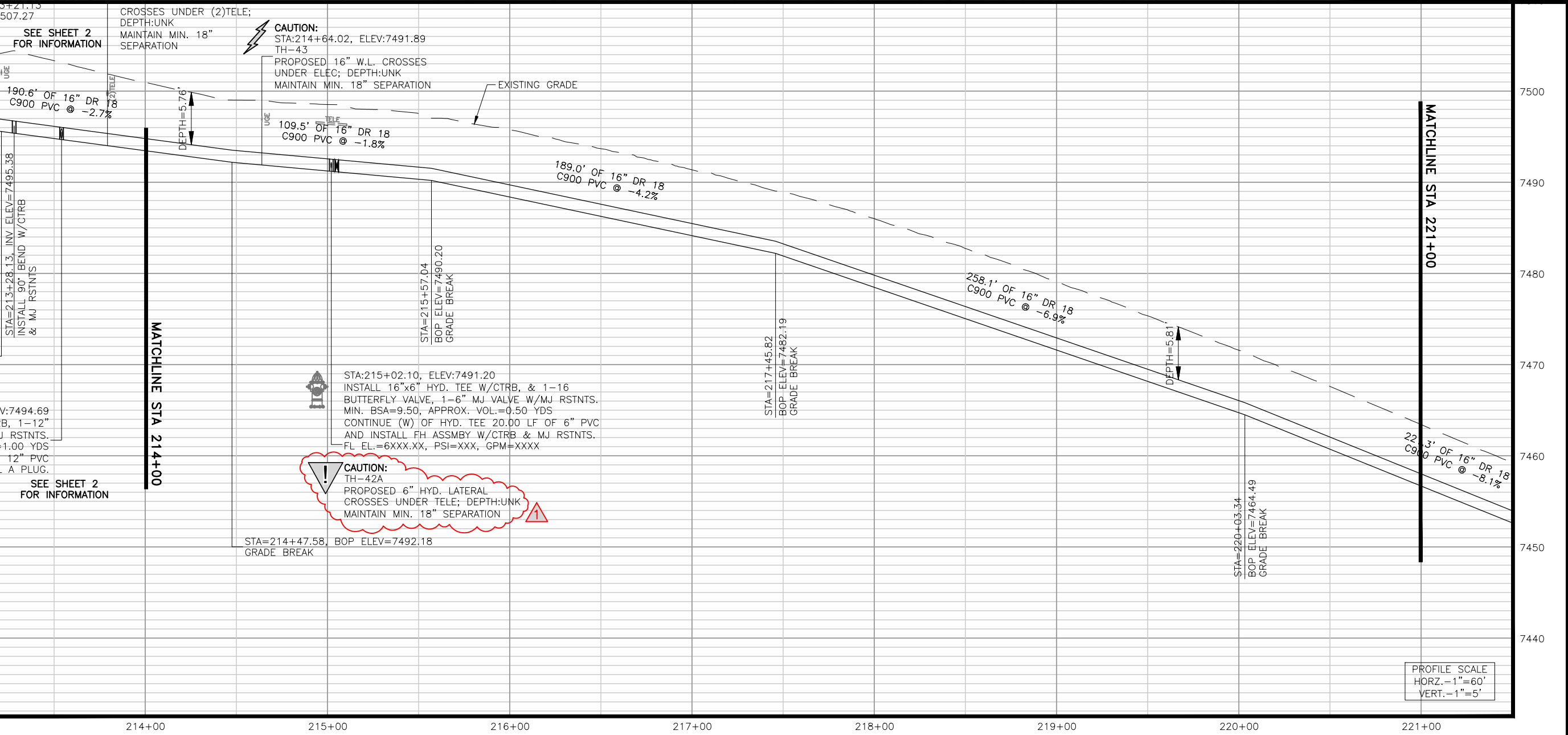
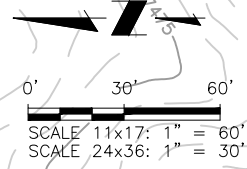


ALL UTILITIES DEPICTED AS QLB UNLESS NOTED OTHERWISE.

QLB DATA SUMMARY:

TH42A - TELE (HYD. LATERAL)  
 - DEPTH: TBD  
 - NORTHING: 451378.49  
 - EASTING: 202980.34

TH43 - UNDERGROUND ELECTRIC  
 - DEPTH: TBD  
 - NORTHING: 451416.59  
 - EASTING: 202985.42



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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 - PLAN AND PROFILE  
 STATION 214+00 TO 221+00

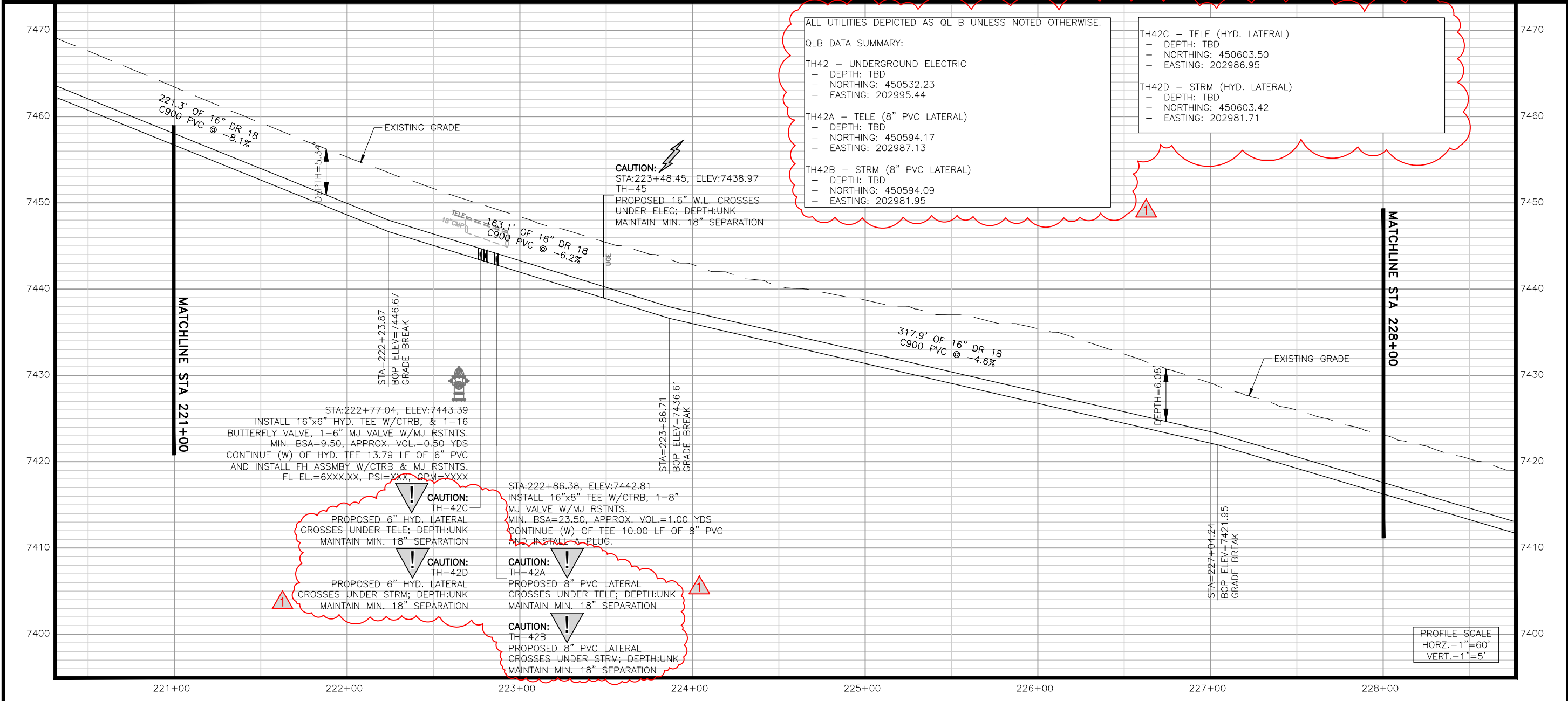
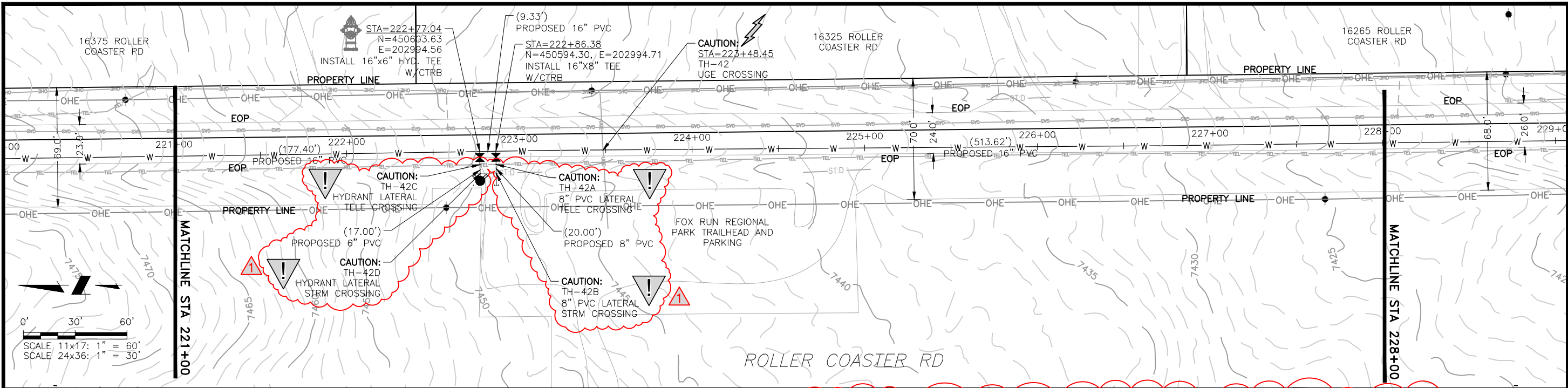
REVISIONS		BY	APP.	DATE
NO.	DESCRIPTION	REVISIONS	JLB	10/05/22
1				
2				
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**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A1-03**  
 SHEET ---OF

2022/10/07 10:32 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1\_North.dwg



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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 - PLAN AND PROFILE  
 STATION 221+00 TO 228+00

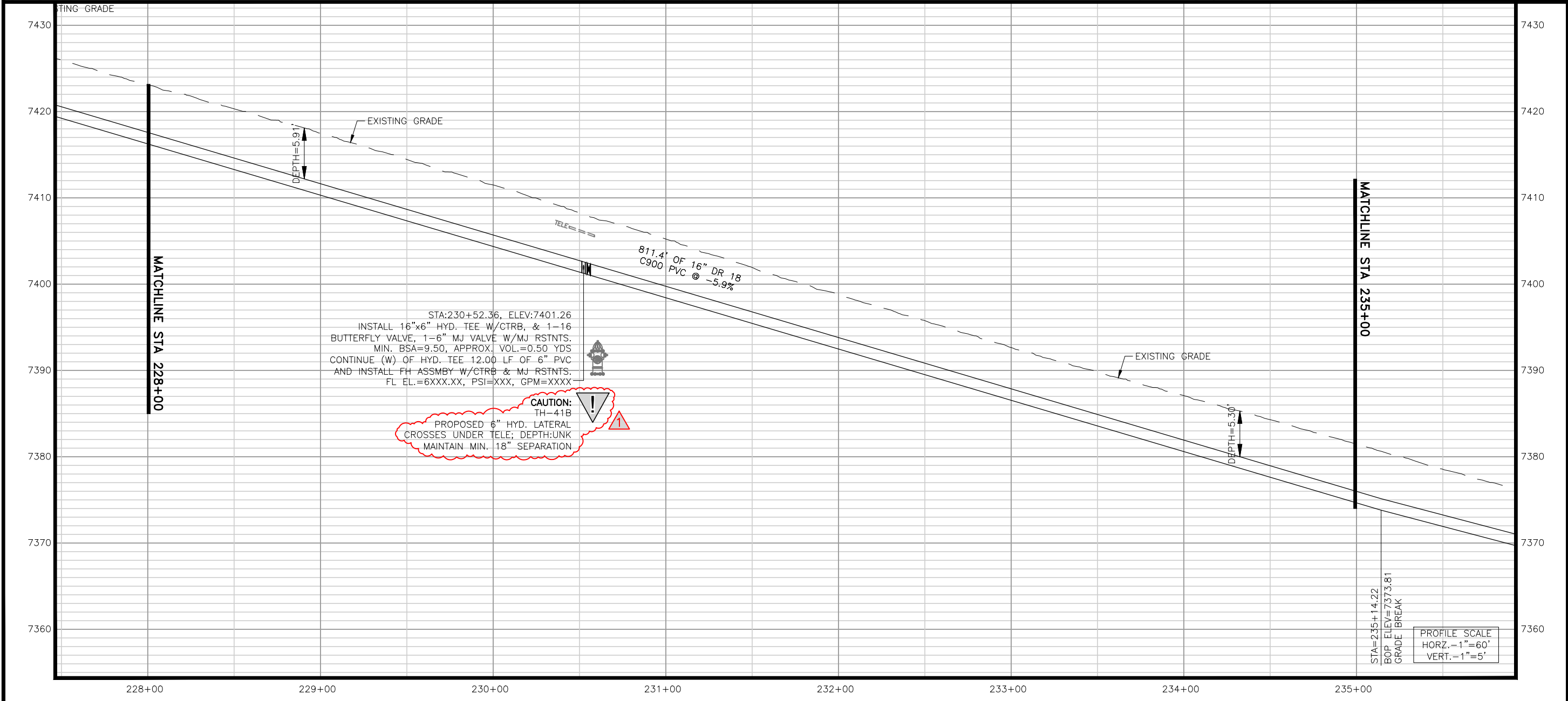
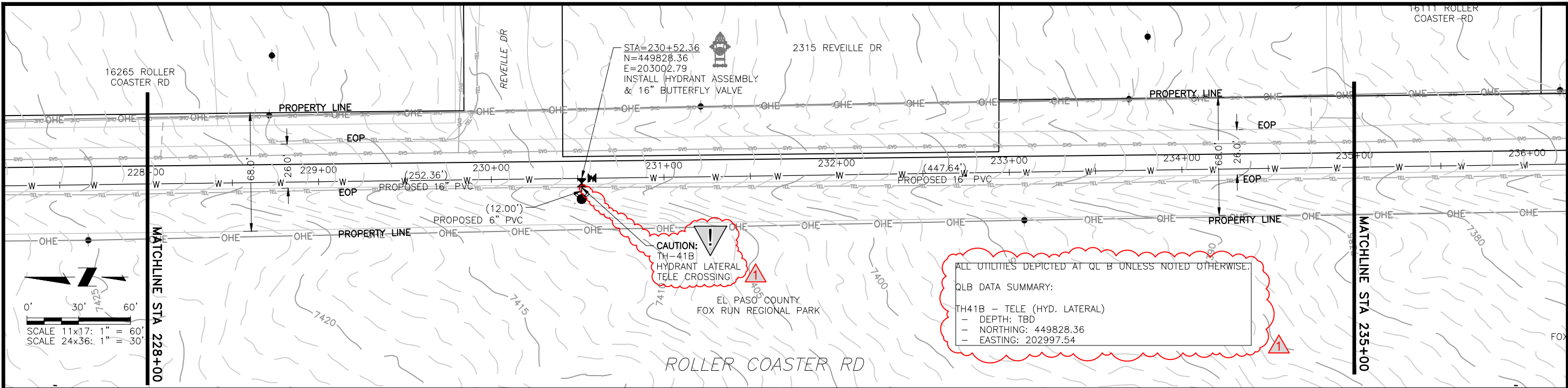
NO.	DESCRIPTION	REVISIONS		DATE
		BY	APP.	
1	REVISIONS 1	JLB		10/05/22
2				
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**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A1-04**  
 SHEET --- OF ---

2022/10/07 10:33 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1\_North.dwg



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 COLORADO SPRINGS, COLORADO 80919  
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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 - PLAN AND PROFILE  
 STATION 228+00 TO 235+00

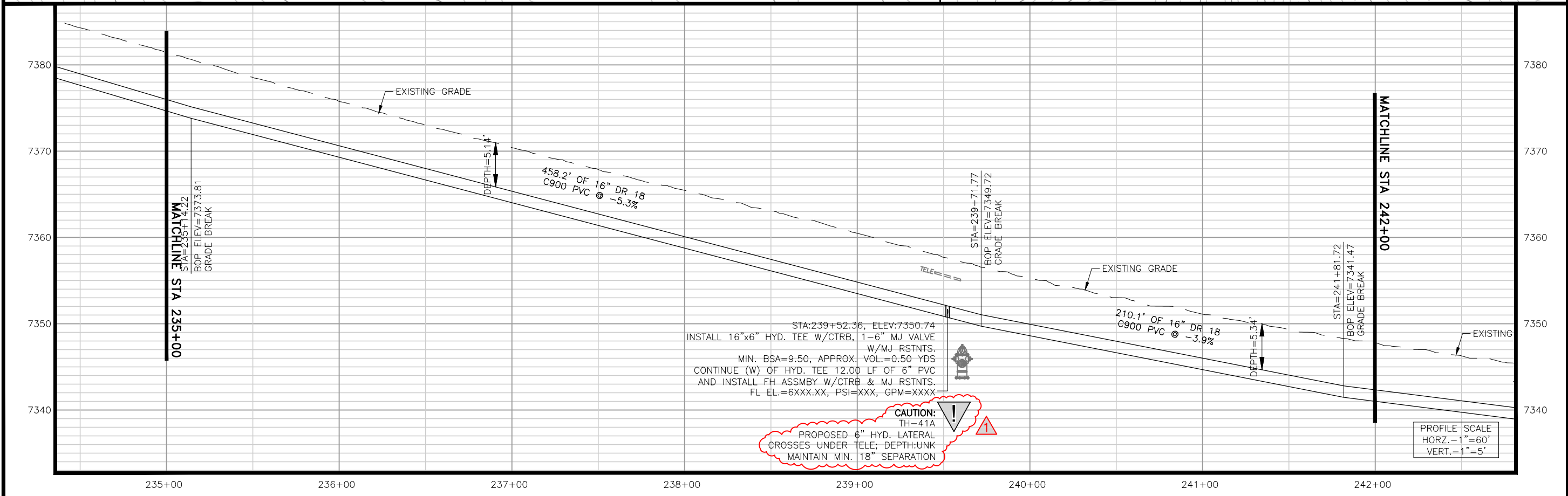
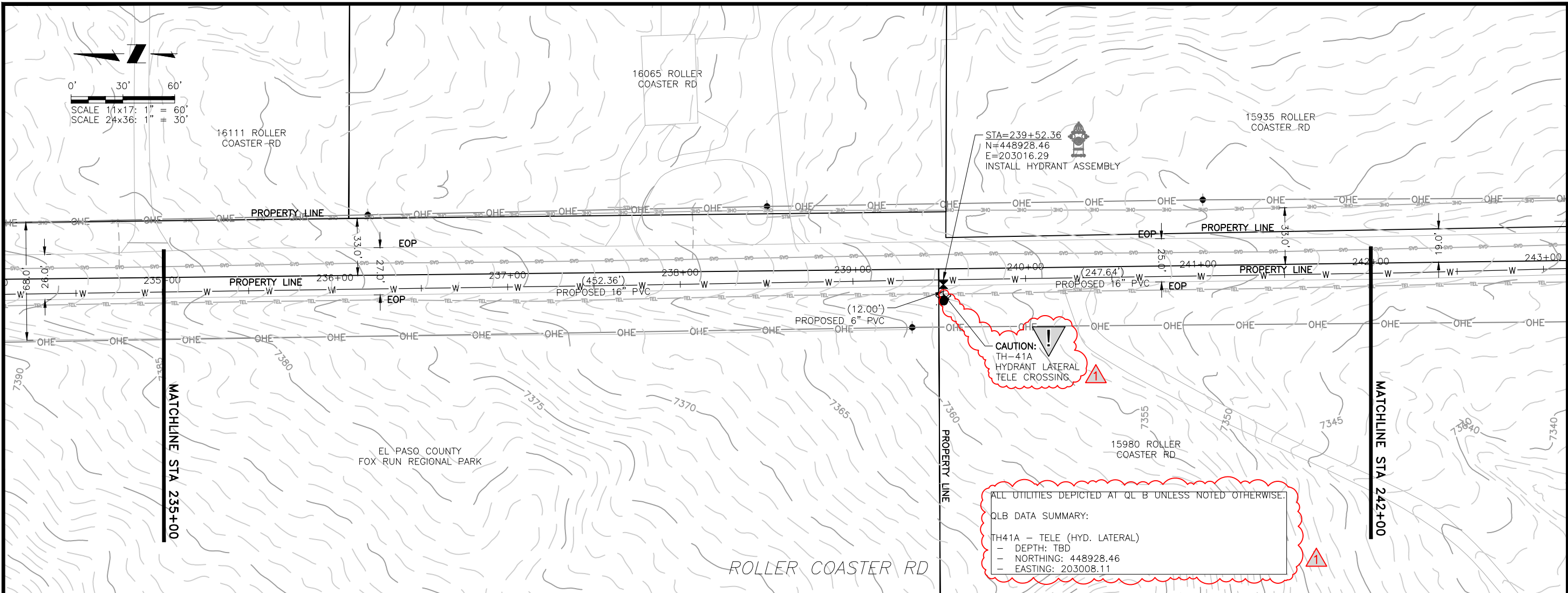
NO.	DESCRIPTION	REVISIONS		DATE
		BY	APP.	
1	REVISIONS 1	JLB		10/05/22
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**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A1-05**  
 SHEET ---OF

2022/10/07 10:34 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2 Drawings\Working\Segment A - Babbitt - Roller Coaster\22429\_Seg\_A1\_North.dwg



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TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM  
SEGMENT A1 - PLAN AND PROFILE  
STATION 235+00 TO 242+00

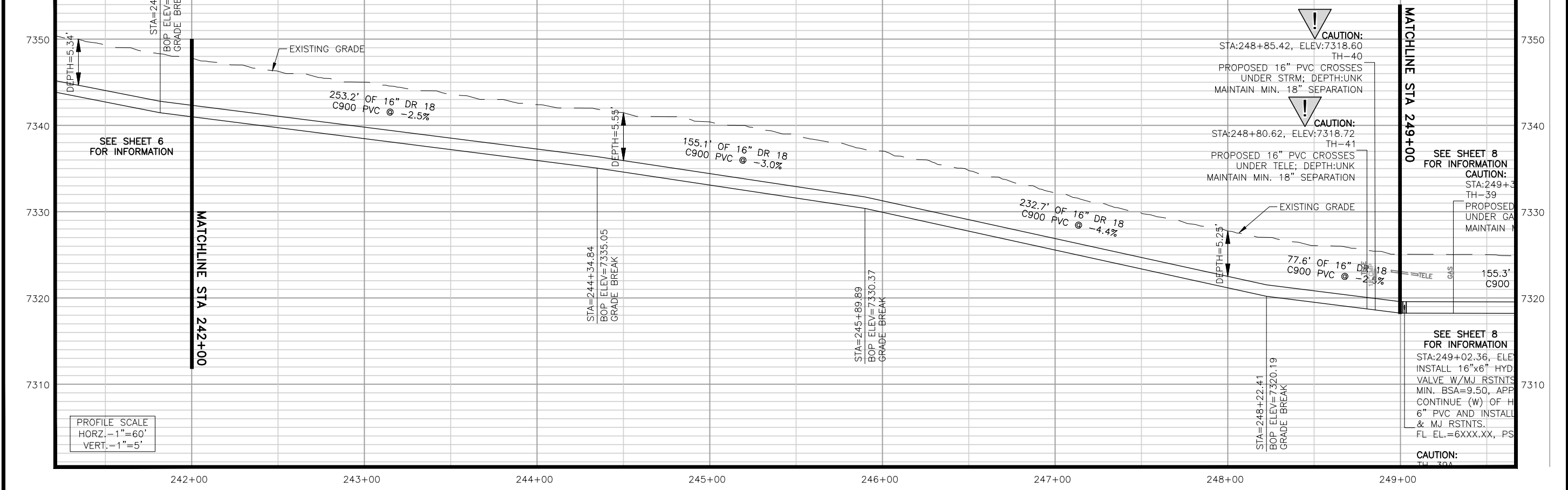
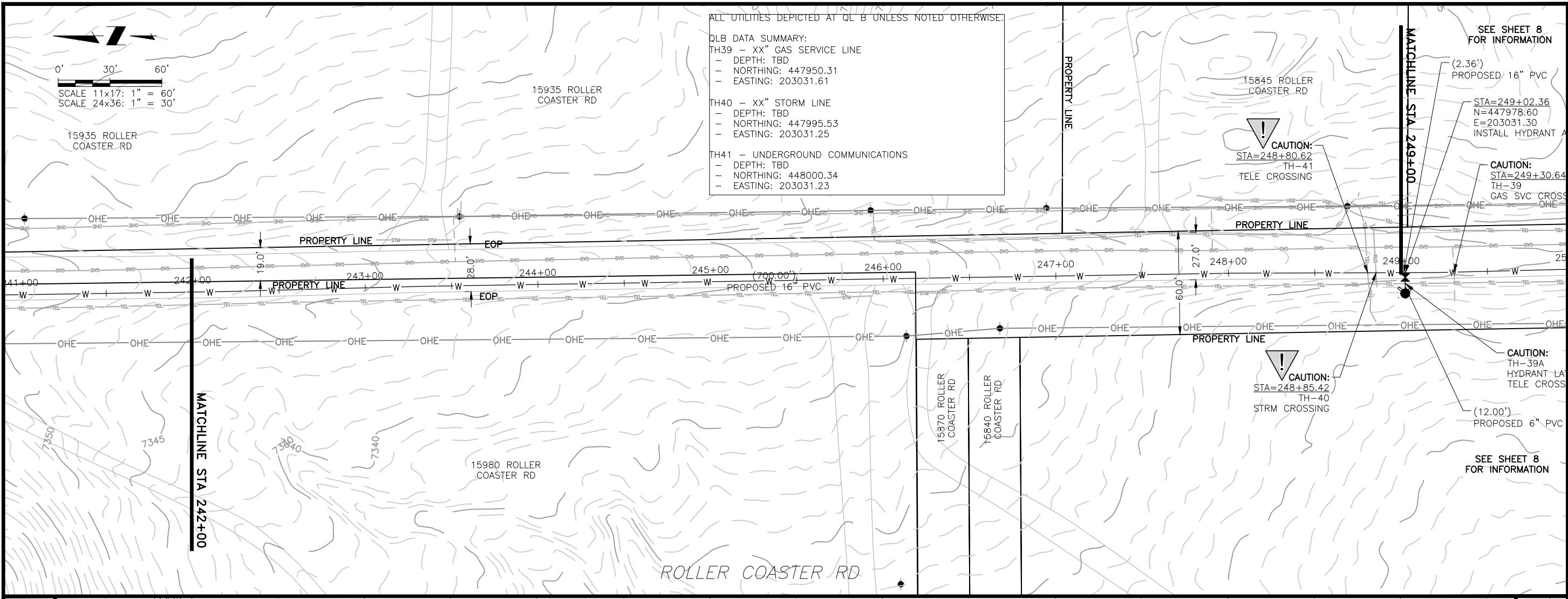
NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JLB		10/05/22
2				
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**70% DESIGN**

Project No.: 224.29  
Date: 06/03/22  
Design: MLD  
Drawn: SNW  
Check: MLD

**A1-06**  
SHEET ---OF---

2022/10/07 10:35 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2 Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1\_North.dwg



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 - PLAN AND PROFILE  
 STATION 242+00 TO 249+00

NO.	DESCRIPTION	BY	DATE
1			
2			
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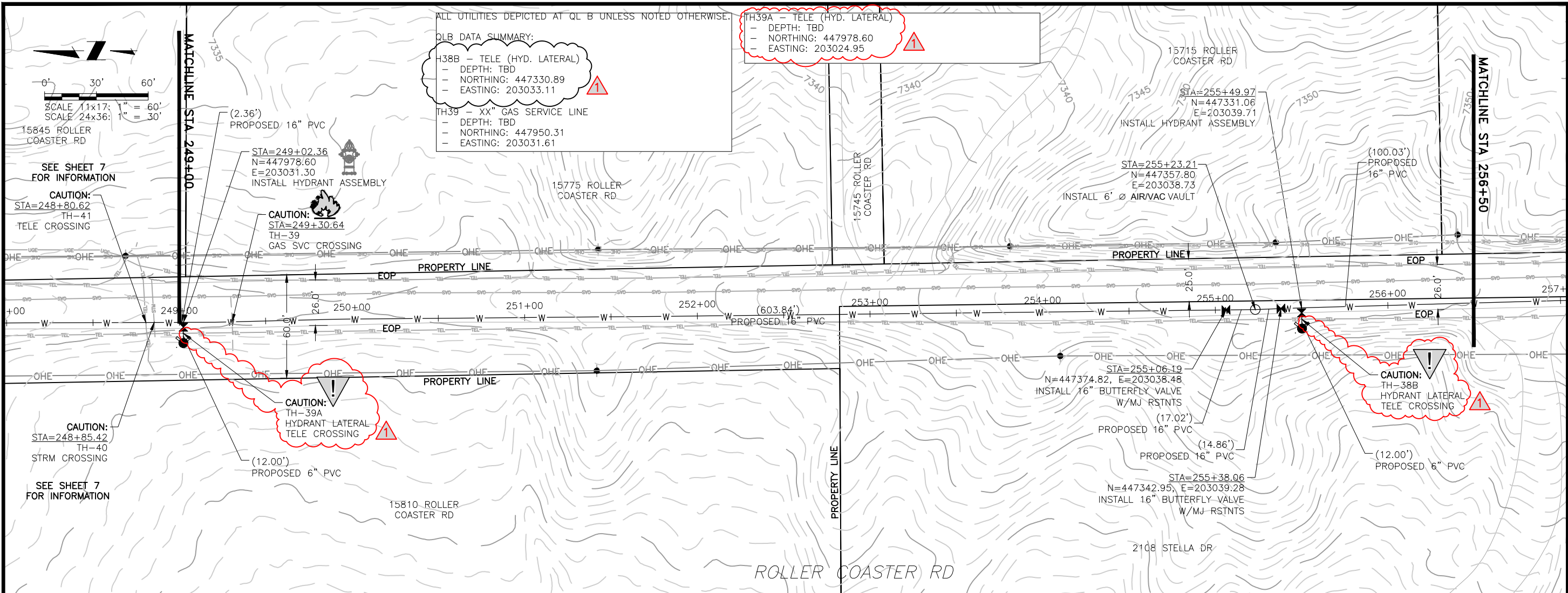
**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A1-07**  
 SHEET ---OF---



2022/10/07 10:36 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1\_North.dwg



ALL UTILITIES DEPICTED AT QL B UNLESS NOTED OTHERWISE.

QLB DATA SUMMARY:

H38B - TELE (HYD. LATERAL)  
 - DEPTH: TBD  
 - NORTHING: 447330.89  
 - EASTING: 203033.11

TH39 - XX" GAS SERVICE LINE  
 - DEPTH: TBD  
 - NORTHING: 447950.31  
 - EASTING: 203031.61

TH39A - TELE (HYD. LATERAL)  
 - DEPTH: TBD  
 - NORTHING: 447978.60  
 - EASTING: 203024.95

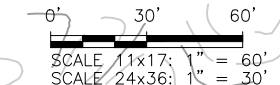
TH39A - TELE (HYD. LATERAL)  
 - DEPTH: TBD  
 - NORTHING: 447978.60  
 - EASTING: 203024.95

CAUTION:  
 TH-38B  
 HYDRANT LATERAL  
 TELE CROSSING

CAUTION:  
 TH-39A  
 HYDRANT LATERAL  
 TELE CROSSING

CAUTION:  
 STA=248+85.42  
 TH-40  
 STRM CROSSING

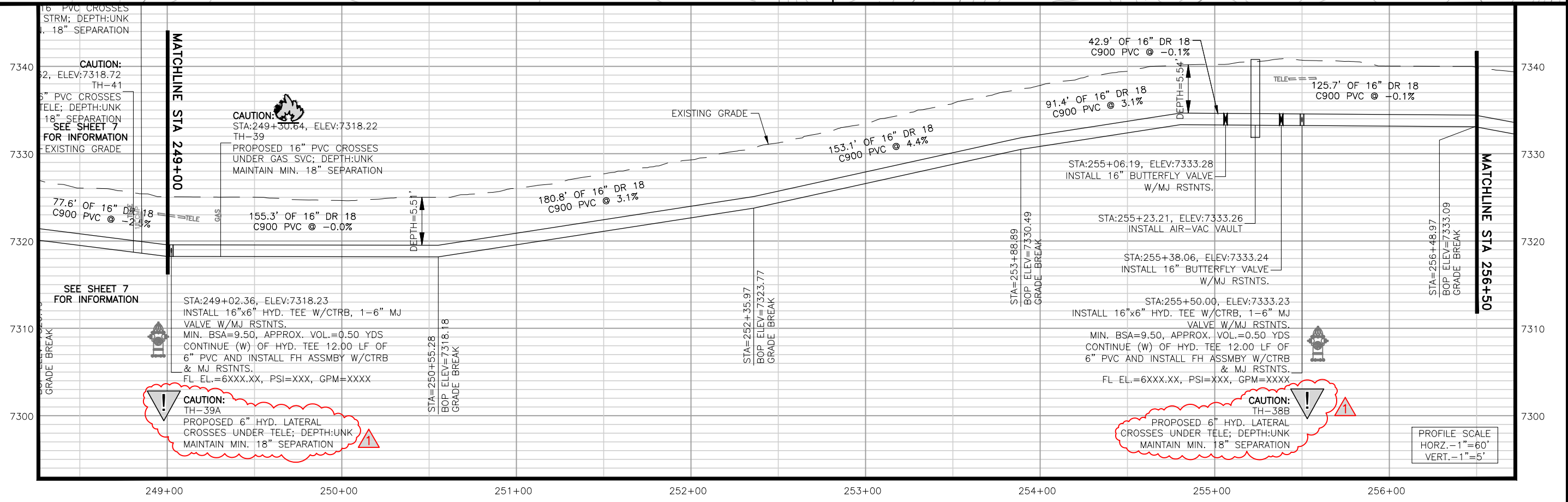
CAUTION:  
 STA=248+80.62  
 TH-41  
 TELE CROSSING



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 - PLAN AND PROFILE  
 STATION 249+00 TO 256+50



CAUTION:  
 TH-39A  
 PROPOSED 6" HYD. LATERAL  
 CROSSES UNDER TELE; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION

CAUTION:  
 TH-38B  
 PROPOSED 6" HYD. LATERAL  
 CROSSES UNDER TELE; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION

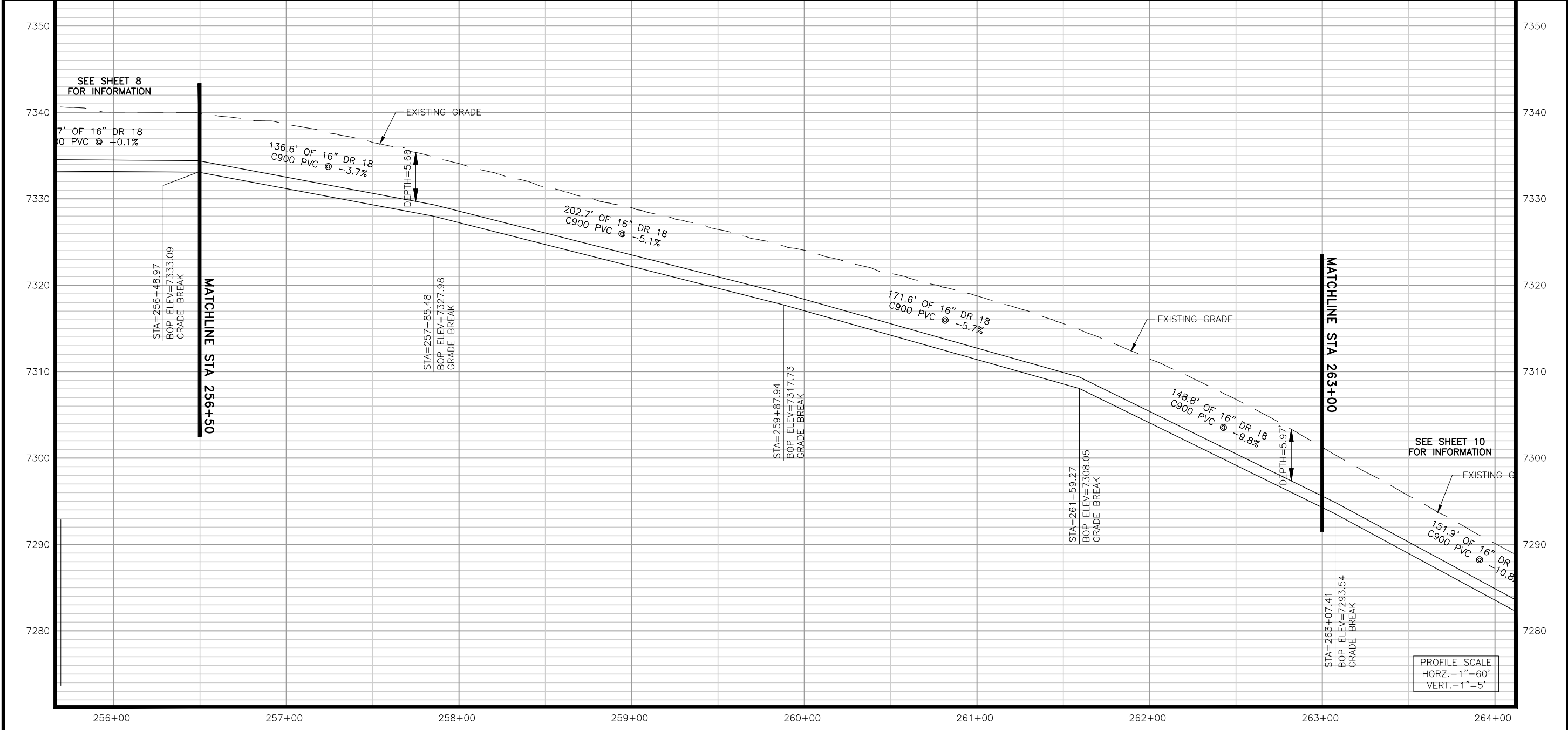
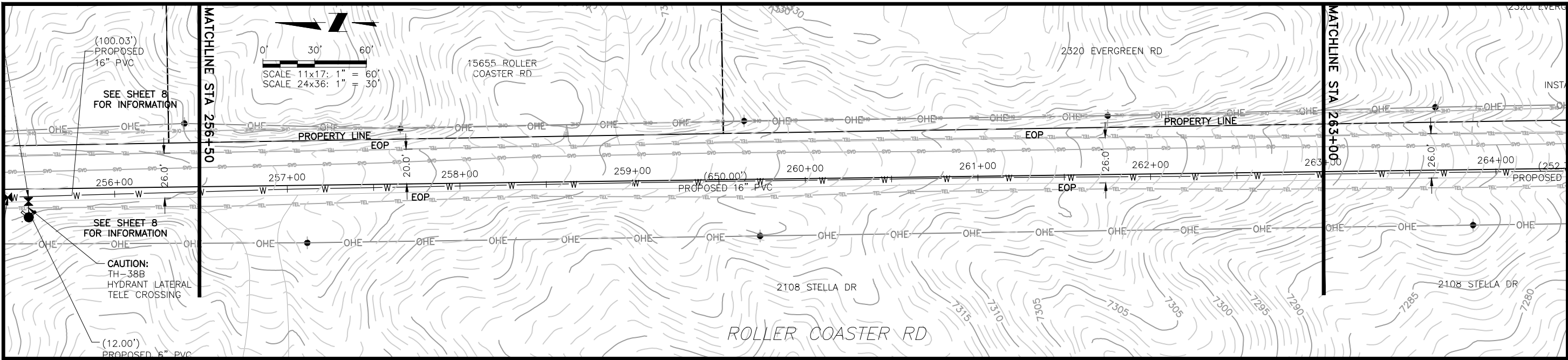
NO.	DESCRIPTION	BY	DATE
1	REVISIONS 1	JLB	10/05/22
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70% DESIGN

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

A1-08  
 SHEET --- OF ---

2022/10/07 10:37 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Babbit - Roller Coaster\22429\_Seg\_A1\_North.dwg



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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 - PLAN AND PROFILE  
 STATION 256+50 TO 263+00

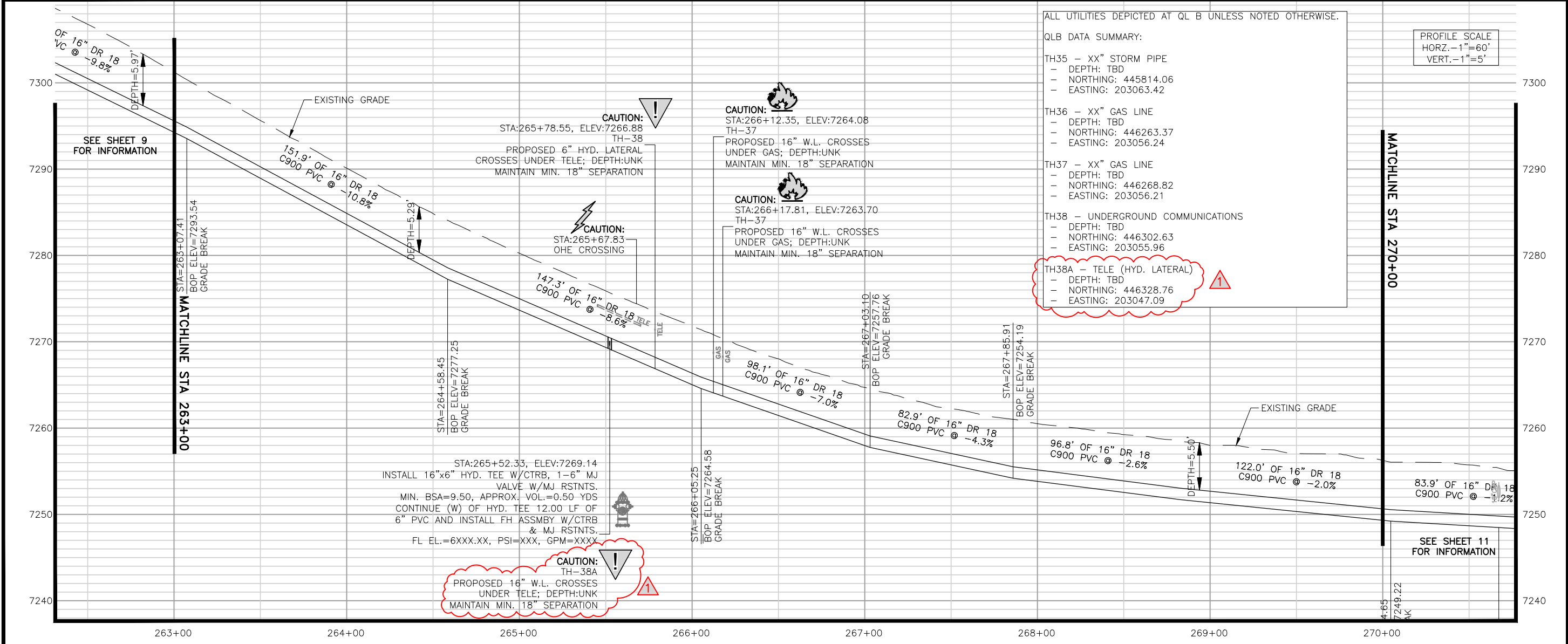
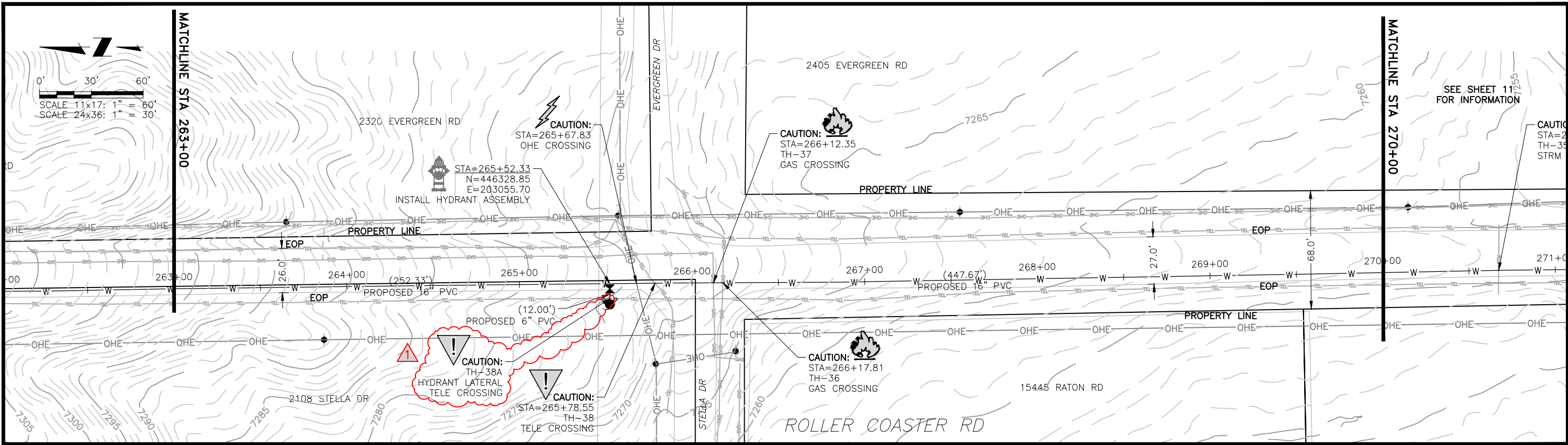
NO.	DESCRIPTION	BY	APP.	DATE
1				
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**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A1-09**  
 SHEET ---OF---

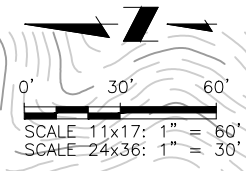
2022/10/07 10:38 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Bpapist - Roller Coaster\22429\_Seg\_A1\_North.dwg



ALL UTILITIES DEPICTED AT QL B UNLESS NOTED OTHERWISE.

QLB DATA SUMMARY:

- TH35 - XX" STORM PIPE
  - DEPTH: TBD
  - NORTHING: 445814.06
  - EASTING: 203063.42
- TH36 - XX" GAS LINE
  - DEPTH: TBD
  - NORTHING: 446263.37
  - EASTING: 203056.24
- TH37 - XX" GAS LINE
  - DEPTH: TBD
  - NORTHING: 446268.82
  - EASTING: 203056.21
- TH38 - UNDERGROUND COMMUNICATIONS
  - DEPTH: TBD
  - NORTHING: 446302.63
  - EASTING: 203055.96
- TH38A - TELE (HYD. LATERAL)
  - DEPTH: TBD
  - NORTHING: 446328.76
  - EASTING: 203047.09



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 (719) 227-0072

TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 - PLAN AND PROFILE  
 STATION 263+00 TO 270+00

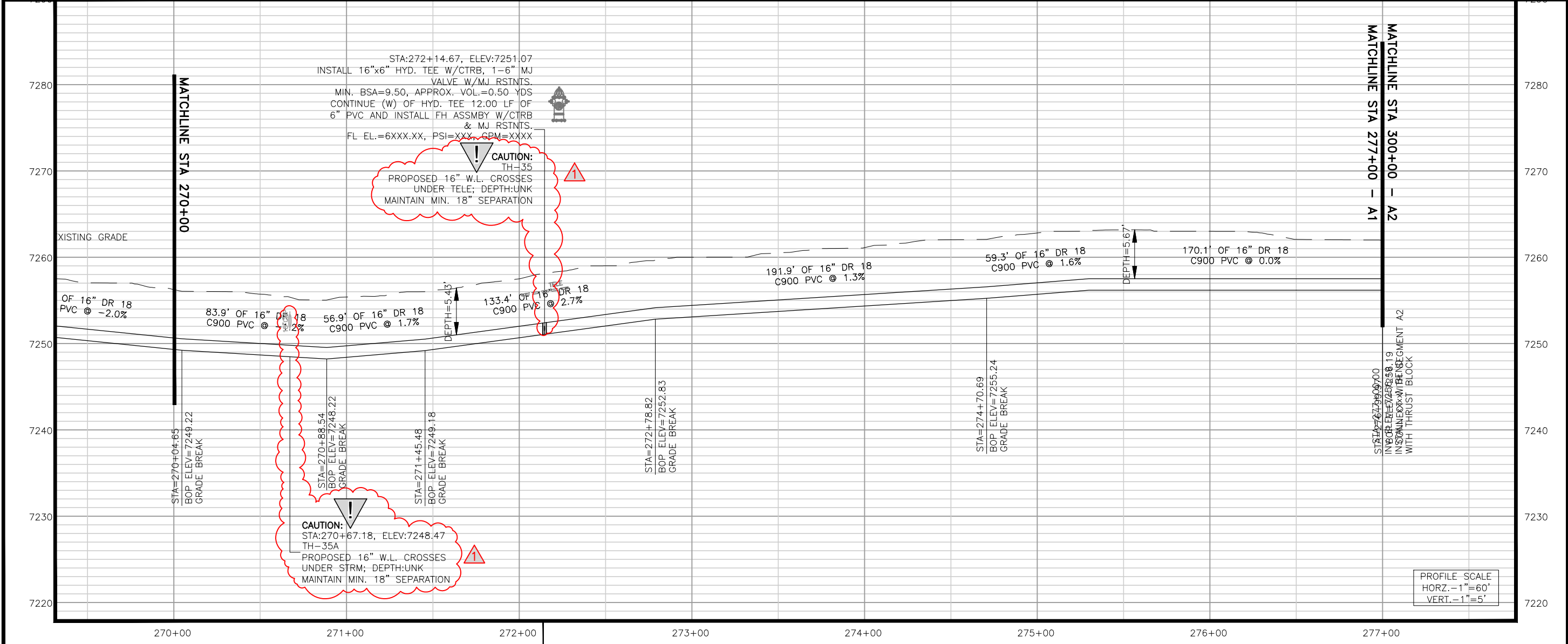
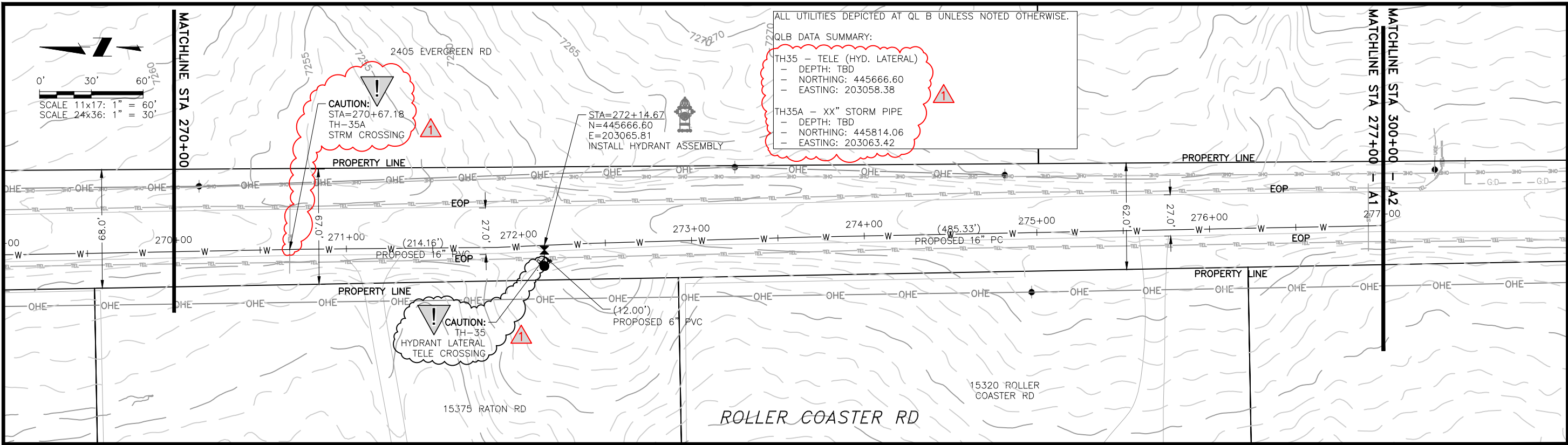
NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1			
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**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A1-10**  
 SHEET --- OF ---

2022/10/07 10:39 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_Seg\_A1\_North.dwg



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A1 - PLAN AND PROFILE  
 STATION 270+00 277+00

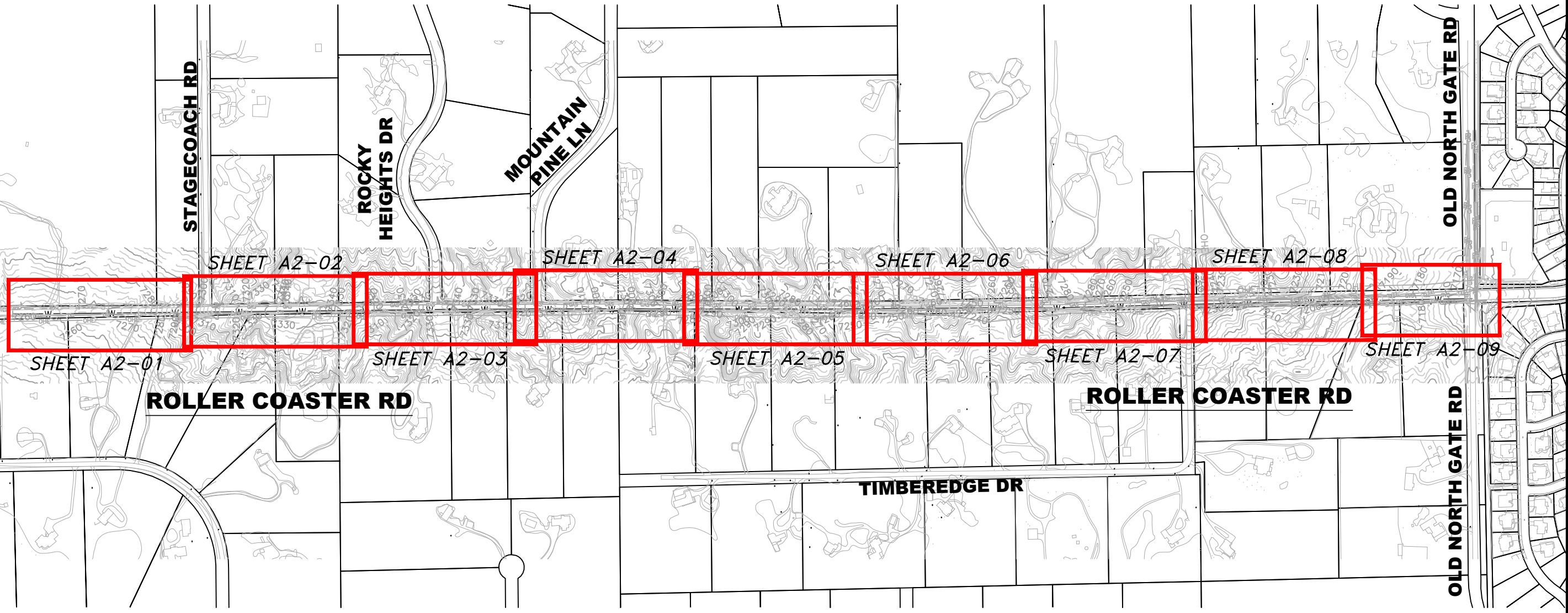
REVISIONS		BY	APP.	DATE
NO.	DESCRIPTION	REVISIONS	JUL	10/05/22
1				
2				
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**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A1-11**  
 SHEET ---OF---

2022/10/07 10:40 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2 Drawings\Working\Segment A - Bpapist - Roller Coaster\22429\_A2\_South.dwg



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TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM  
SEGMENT A2 KEY MAP

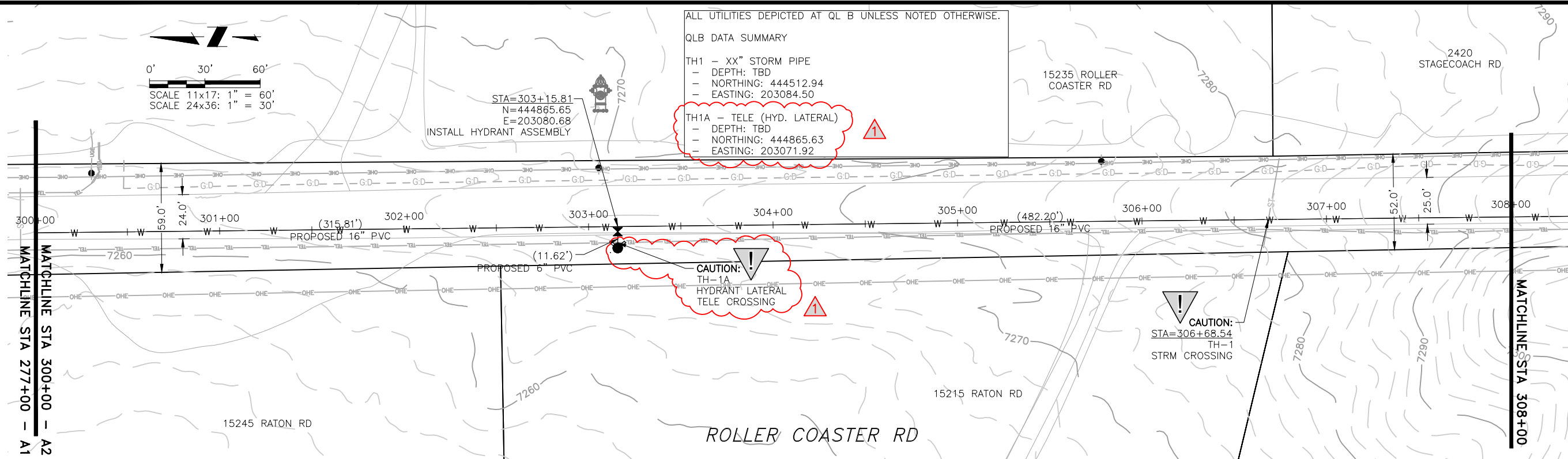
NO.	DESCRIPTION	BY	APP.	DATE
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70% DESIGN

Project No.: 224.29  
Date: 06/03/22  
Design: GJD  
Drawn: JLB  
Check: MLD

SHEET ---- OF

2022/10/07 10:41 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Bpittist - Roller Coaster\22429\_A2\_South.dwg



ALL UTILITIES DEPICTED AT QL B UNLESS NOTED OTHERWISE.

QLB DATA SUMMARY

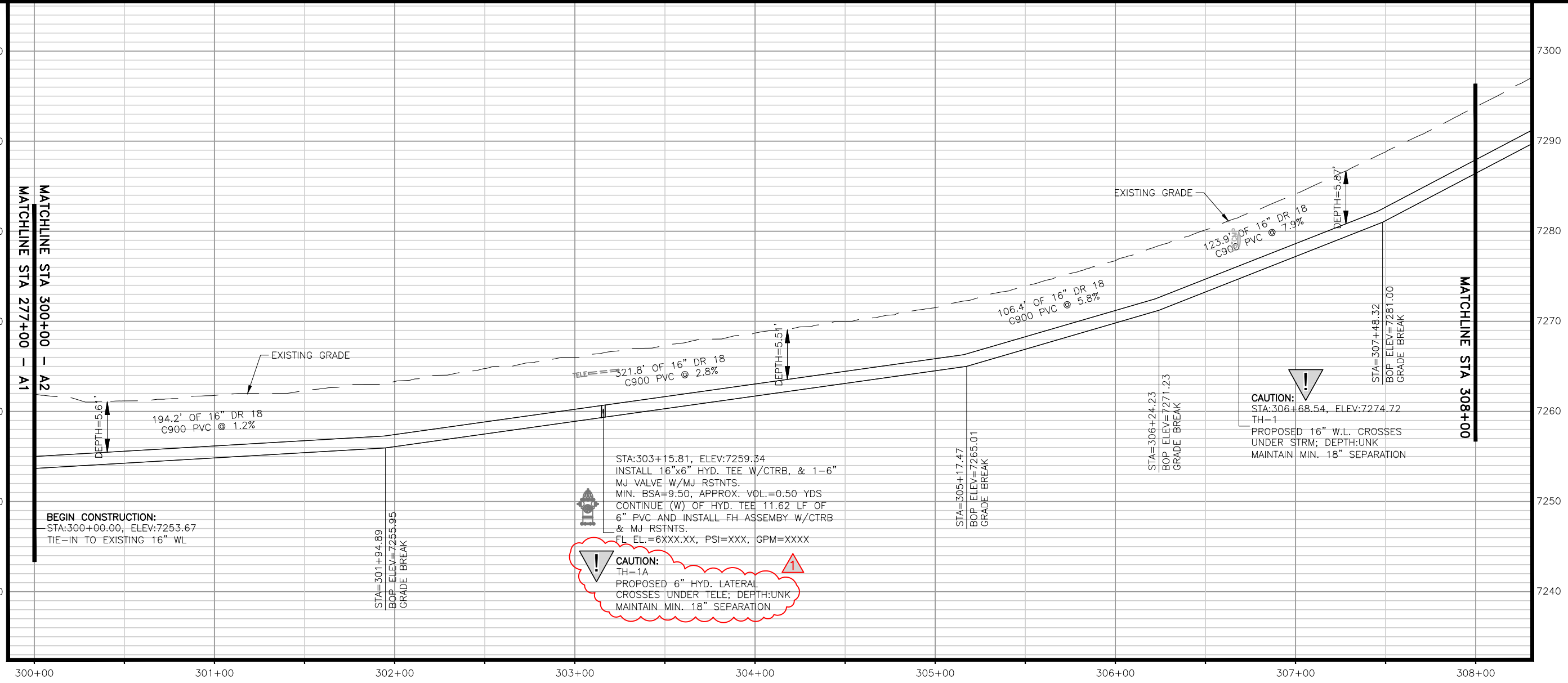
TH1 - XX" STORM PIPE  
 - DEPTH: TBD  
 - NORTHING: 444512.94  
 - EASTING: 203084.50

TH1A - TELE (HYD. LATERAL)  
 - DEPTH: TBD  
 - NORTHING: 444865.63  
 - EASTING: 203071.92

STA=303+15.81  
 N=444865.65  
 E=203080.68  
 INSTALL HYDRANT ASSEMBLY

**CAUTION!**  
 TH-1A  
 HYDRANT LATERAL  
 TELE CROSSING

**CAUTION!**  
 STA=306+68.54  
 TH-1  
 STRM CROSSING



STA:303+15.81, ELEV:7259.34  
 INSTALL 16"x6" HYD. TEE W/CTRB, & 1-6"  
 MJ VALVE W/MJ RSTNTS.  
 MIN. BSA=9.50, APPROX. VOL.=0.50 YDS  
 CONTINUE (W) OF HYD. TEE 11.62 LF OF  
 6" PVC AND INSTALL FH ASSEMBLY W/CTRB  
 & MJ RSTNTS.  
 FL EL.=6XXX.XX, PSI=XXX, GPM=XXXX

**CAUTION!**  
 TH-1A  
 PROPOSED 6" HYD. LATERAL  
 CROSSES UNDER TELE; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION

**CAUTION!**  
 STA:306+68.54, ELEV:7274.72  
 TH-1  
 PROPOSED 16" W.L. CROSSES  
 UNDER STRM; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION

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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2 - PLAN AND PROFILE  
 STATION 300+00 TO 308+00

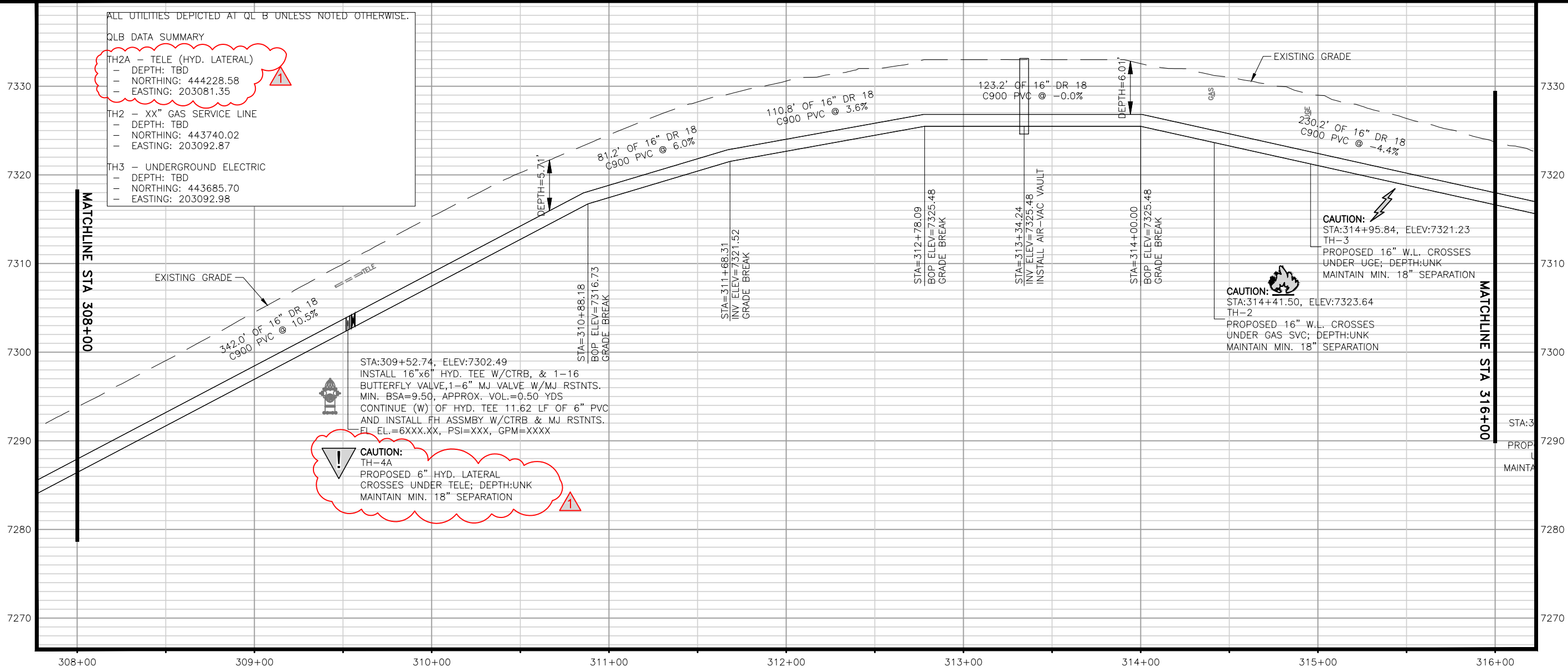
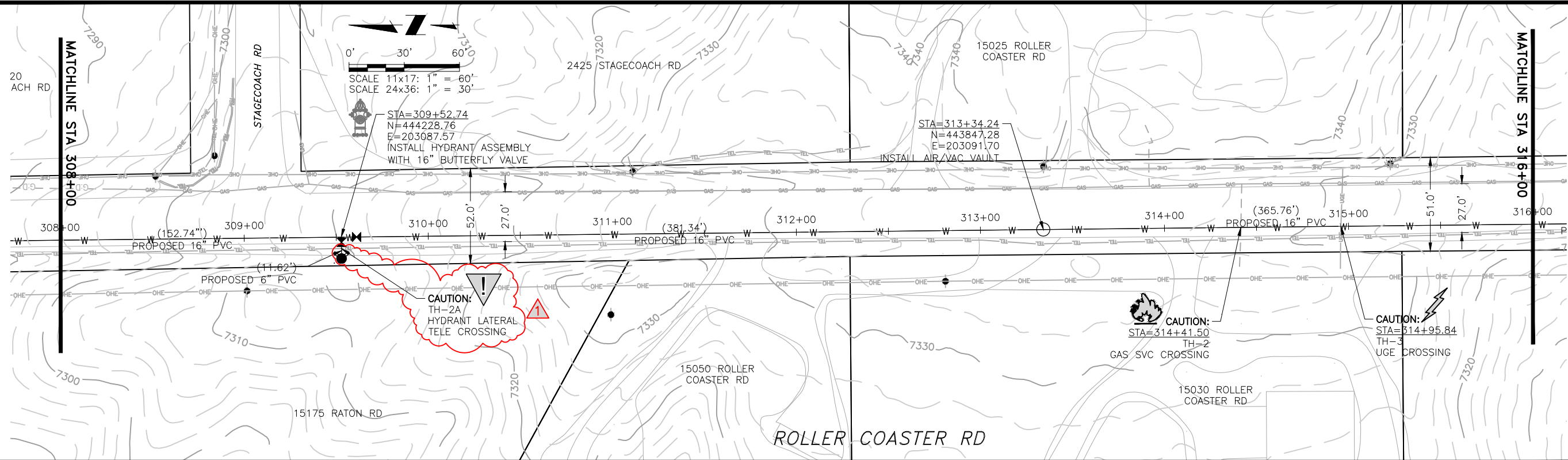
NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JULB		10/05/22
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70% DESIGN

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A2-01**  
 SHEET ---OF

2022/10/07 10:42 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_A2\_South.dwg



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COLORADO SPRINGS, COLORADO 80919  
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TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM  
SEGMENT A2 - PLAN AND PROFILE  
STATION 308+00 TO 316+00

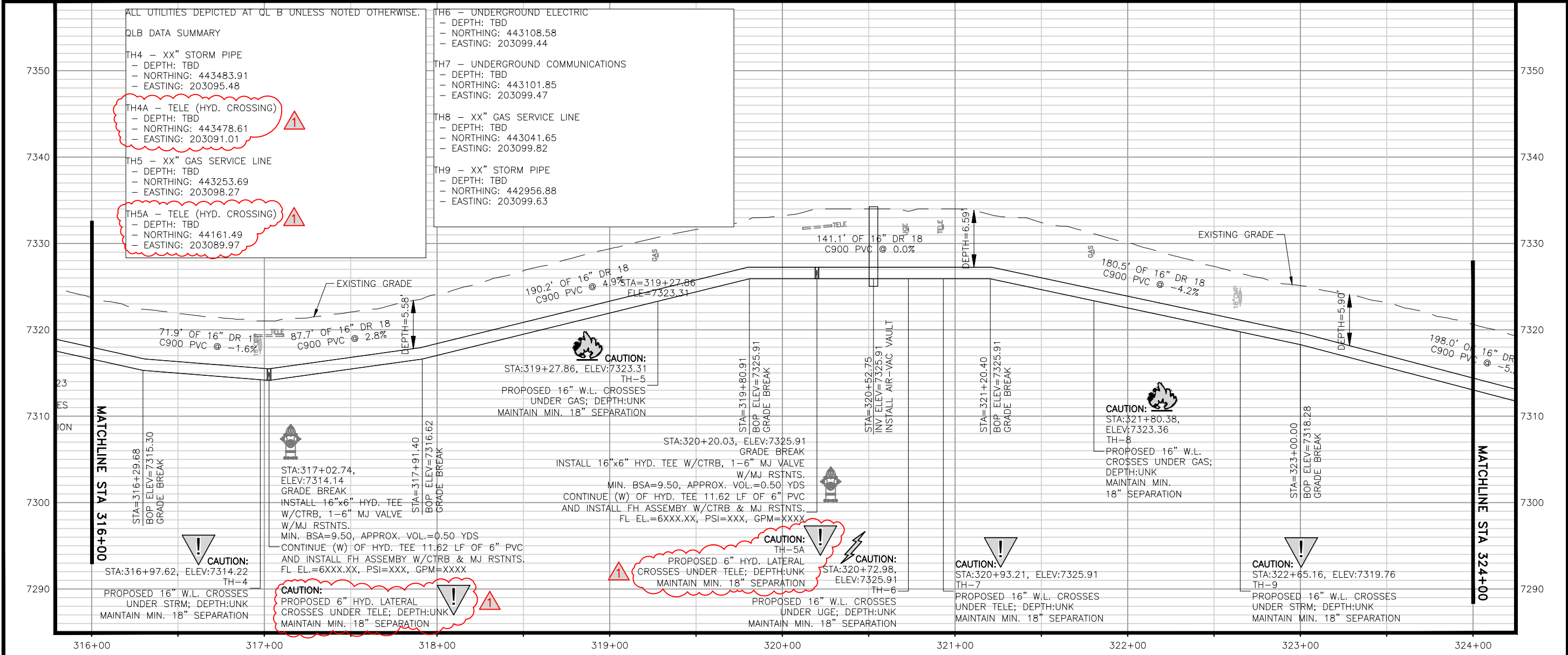
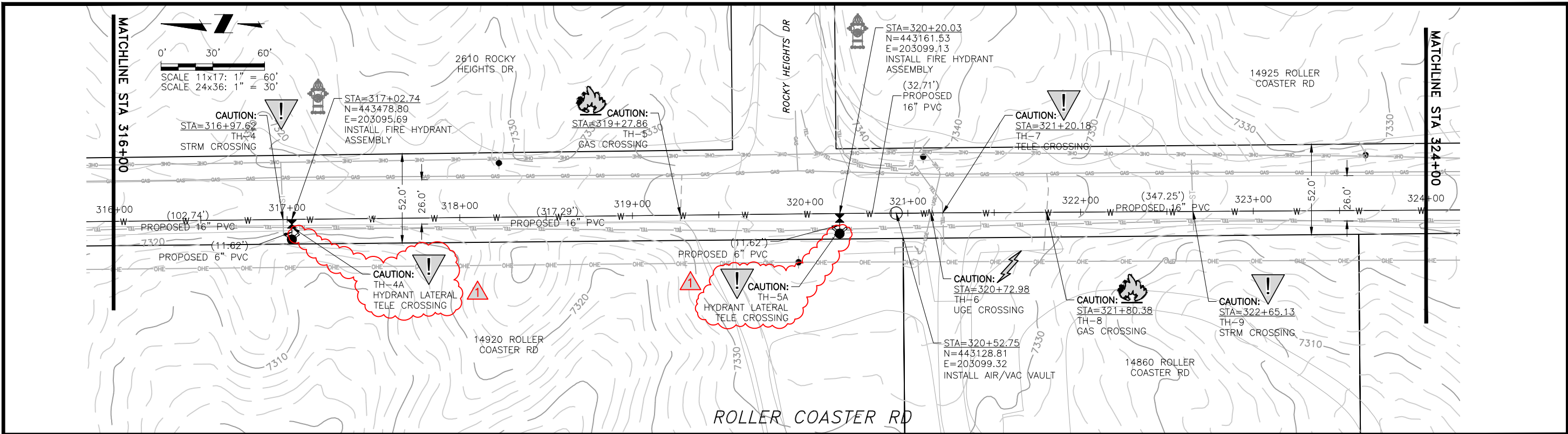
NO.	REVISIONS		DATE
	DESCRIPTION	BY APP. JLB	
1	REVISIONS 1		10/05/22
2			
3			
4			
5			
6			
7			

**70% DESIGN**

Project No.: 224.29  
Date: 06/03/22  
Design: MLD  
Drawn: SNW  
Check: MLD

**A2-02**  
SHEET ---OF

2022/10/07 10:42 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_A2\_South.dwg



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 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2 - PLAN AND PROFILE  
 STATION 316+00 TO 324+00

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1			
2				
3				
4				
5				
6				
7				

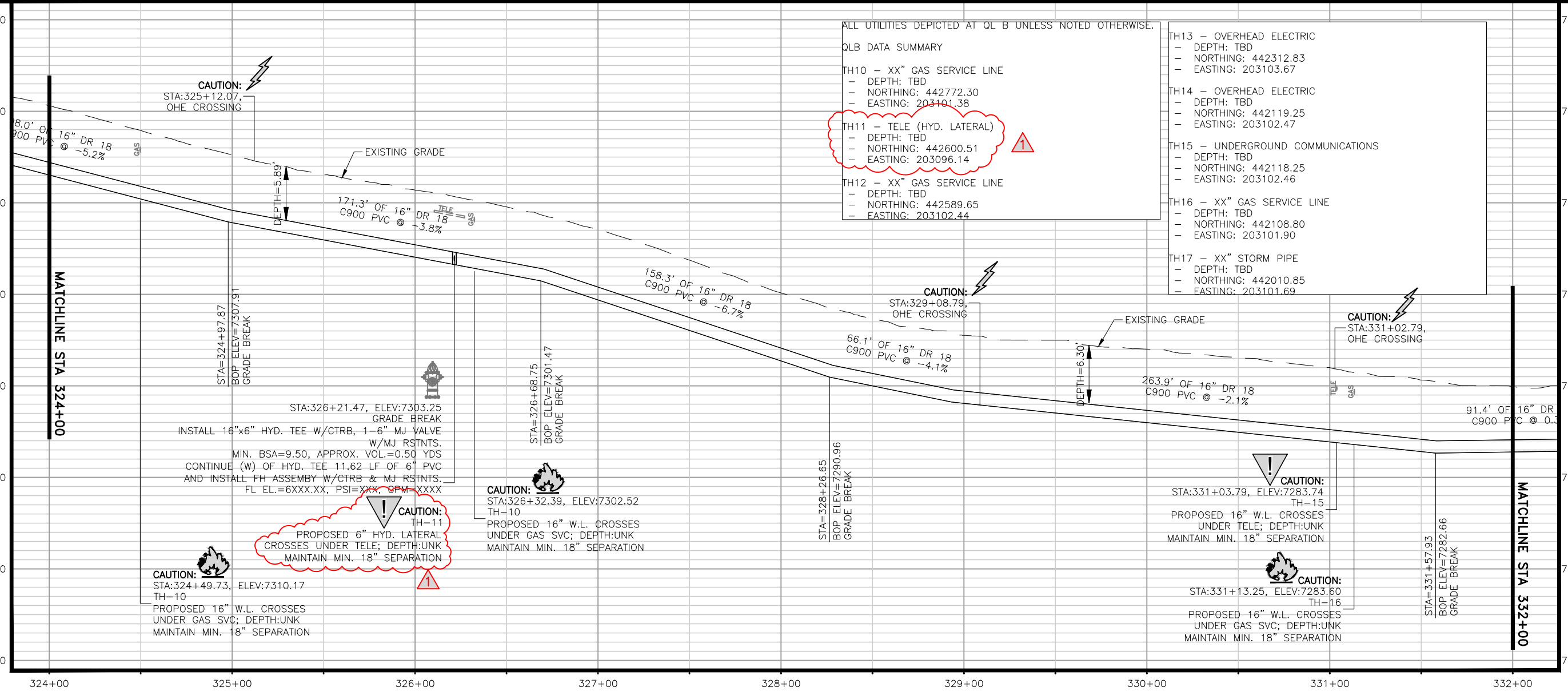
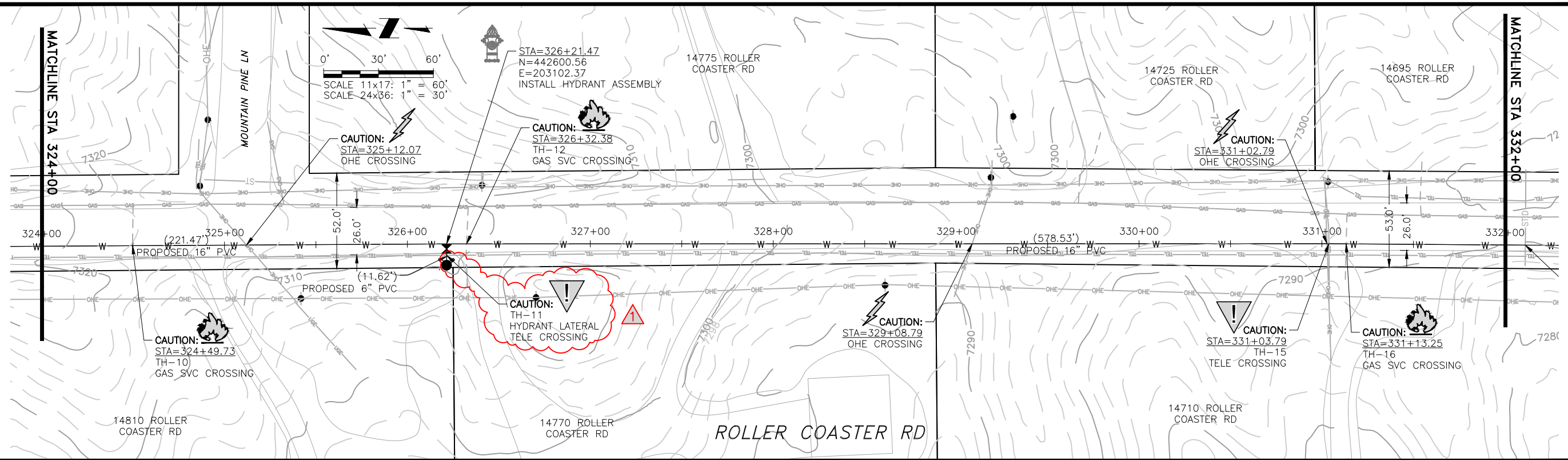
70% DESIGN

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A2-03**  
 SHEET ---OF



2022/10/07 10:43 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_A2\_South.dwg



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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2 - PLAN AND PROFILE  
 STATION 324+00 TO 332+00

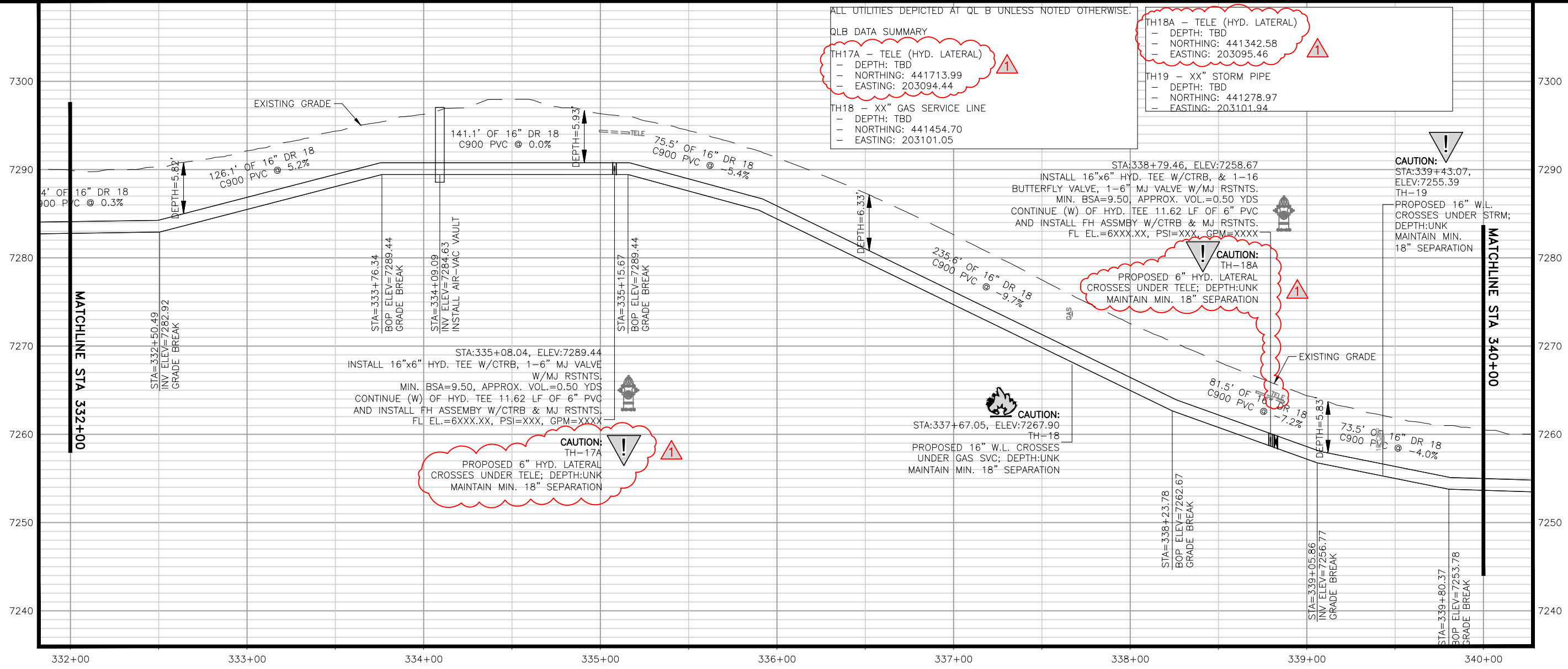
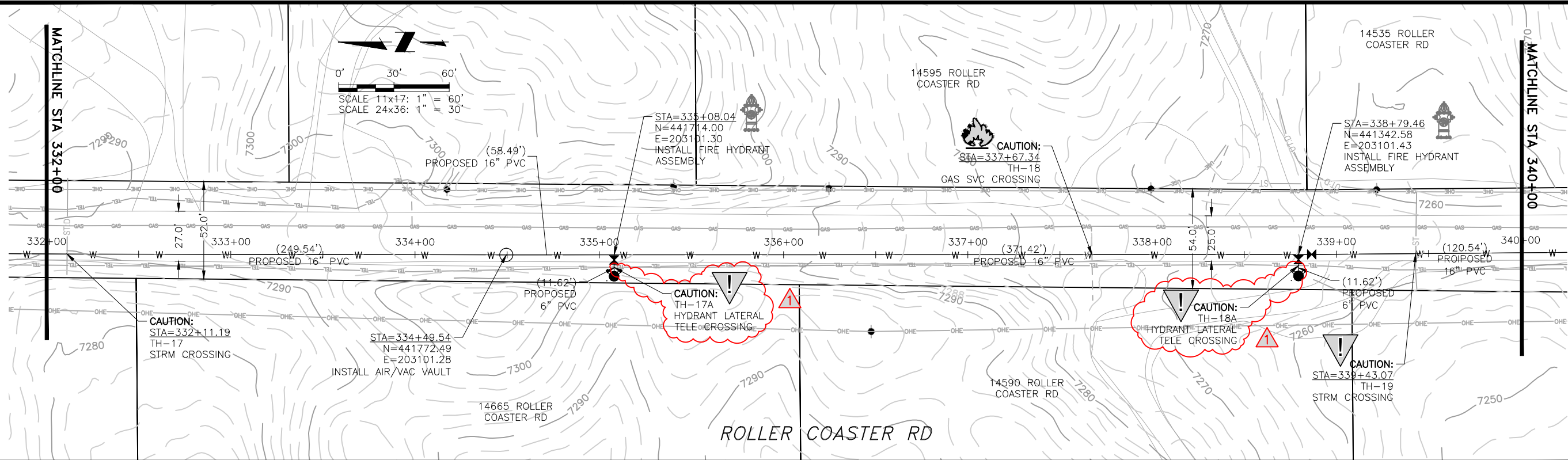
NO.	DESCRIPTION	BY	APP.	DATE
1				
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**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A2-04**  
 SHEET ---OF

2022/10/07 10:43 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Bpittist - Roller Coaster\22429\_A2\_South.dwg



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TRIVIEW METROPOLITAN DISTRICT  
NORTHERN DELIVERY SYSTEM  
SEGMENT A2 - PLAN AND PROFILE  
STATION 332+00 TO 340+00

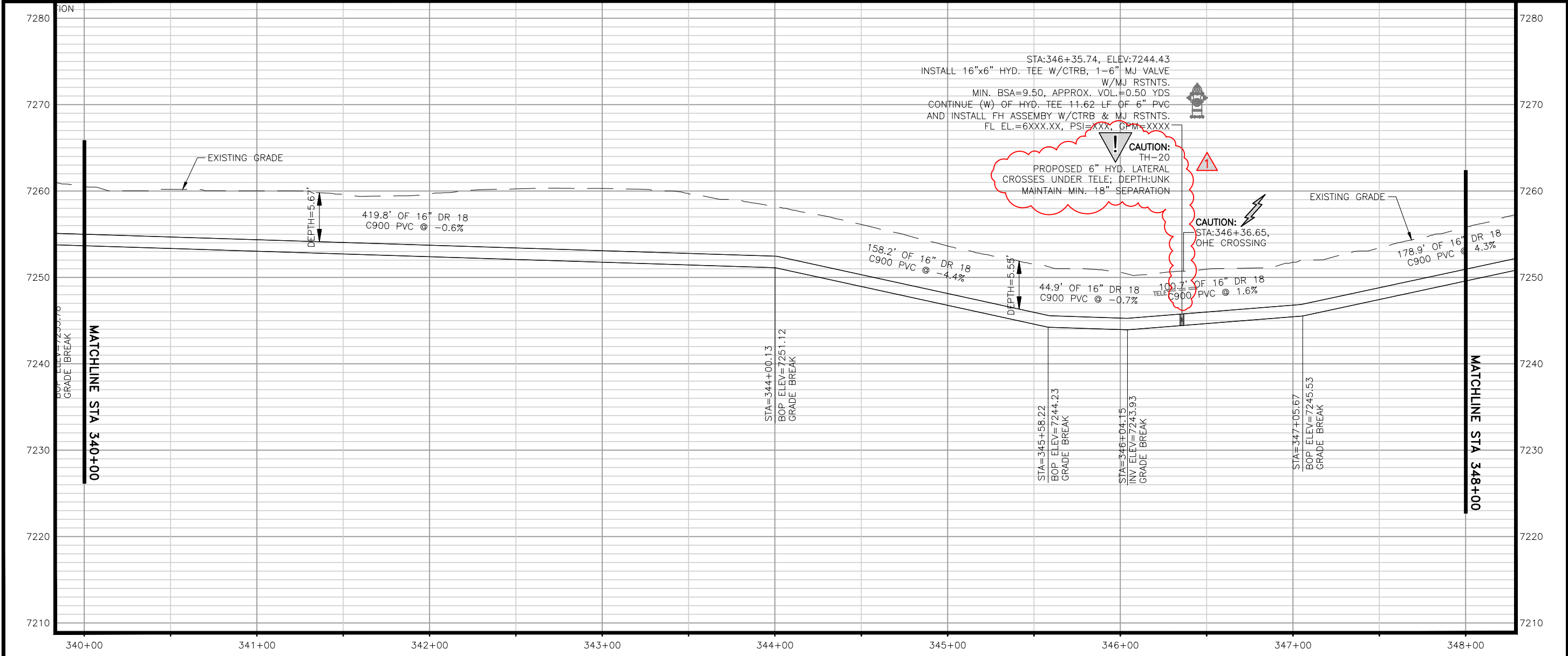
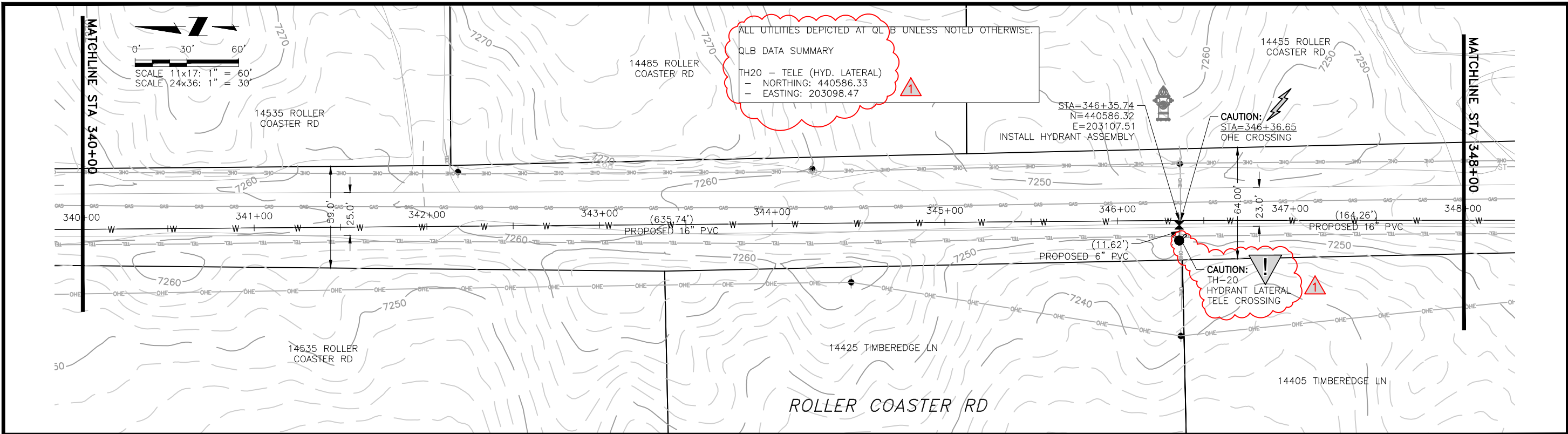
NO.	DESCRIPTION	BY	APP.	DATE
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70% DESIGN

Project No.: 224.29  
Date: 06/03/22  
Design: MLD  
Drawn: SNW  
Check: MLD

A2-05  
SHEET ---OF

2022/10/07 10:44 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Bpittist - Roller Coaster\22429\_A2\_South.dwg



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 (719) 227-0072

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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2 - PLAN AND PROFILE  
 STATION 340+00 TO 348+00

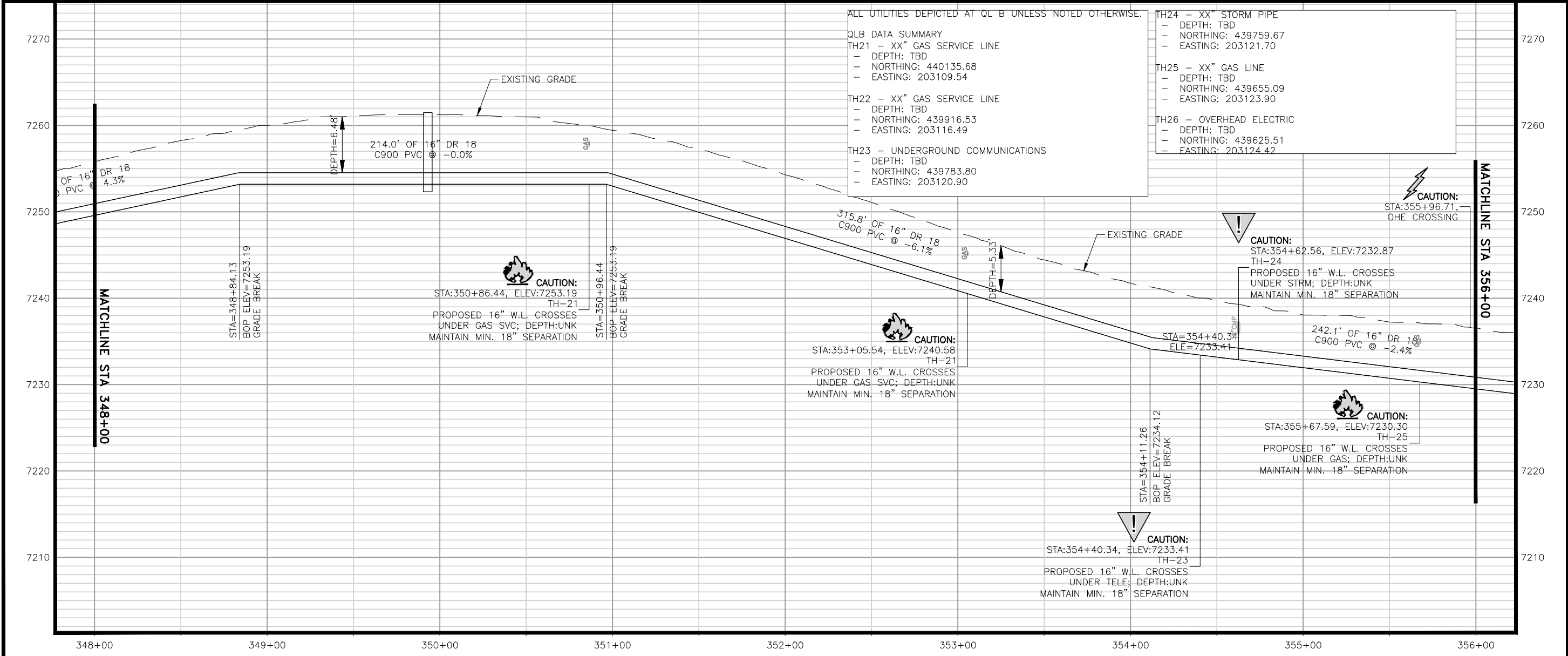
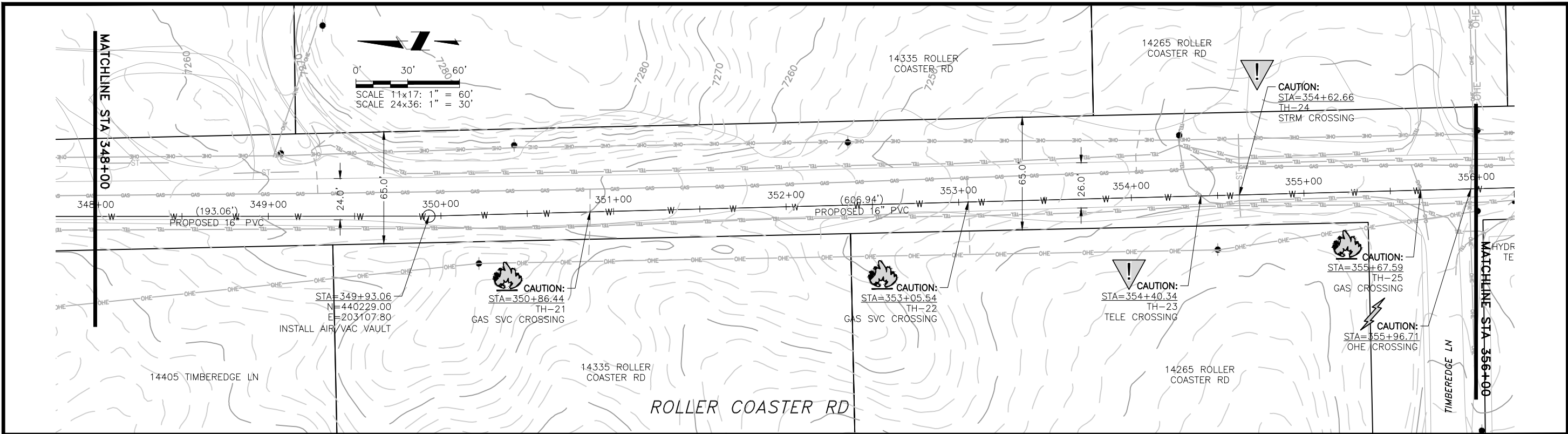
NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1			
2				
3				
4				
5				
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7				

70% DESIGN

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A2-06**  
 SHEET ---OF---

2022/10/07 10:45 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Bpittist - Roller Coaster\22429\_A2\_South.dwg



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2 - PLAN AND PROFILE  
 STATION 348+00 TO 356+00

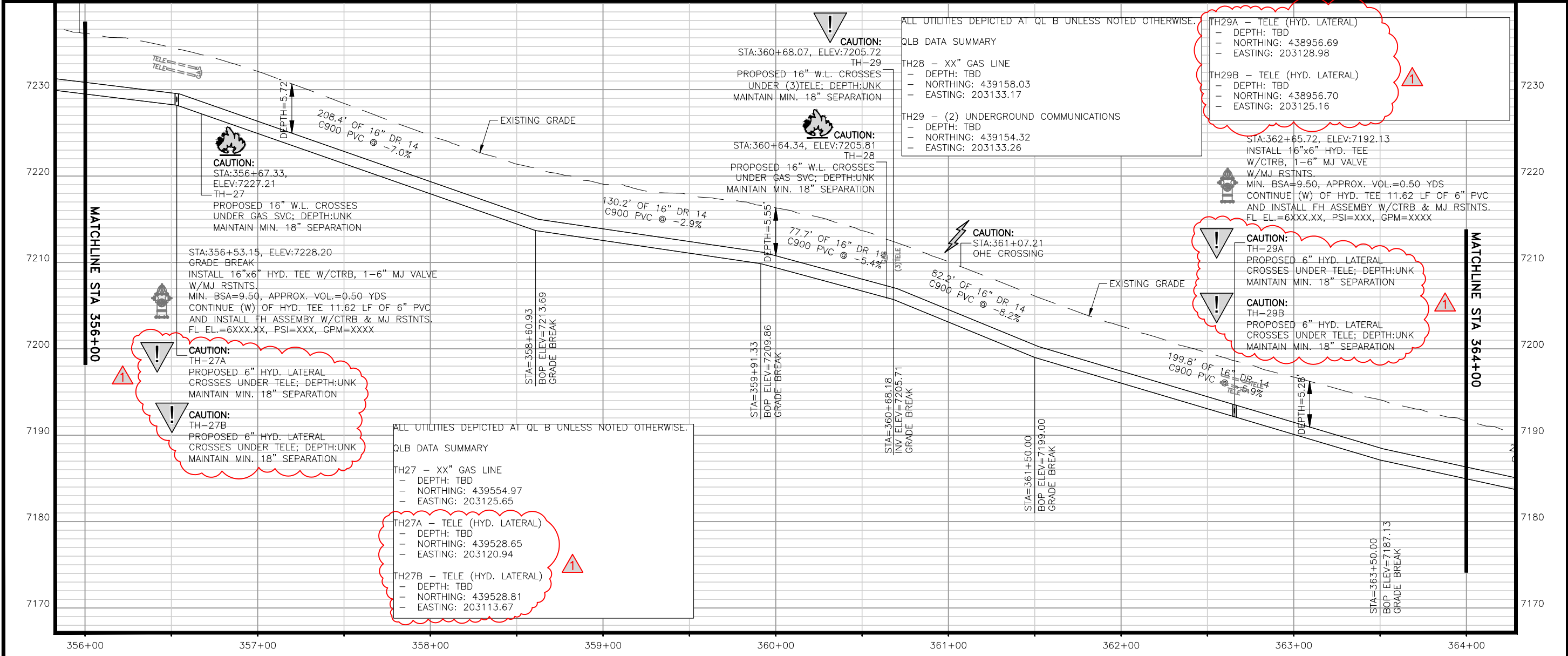
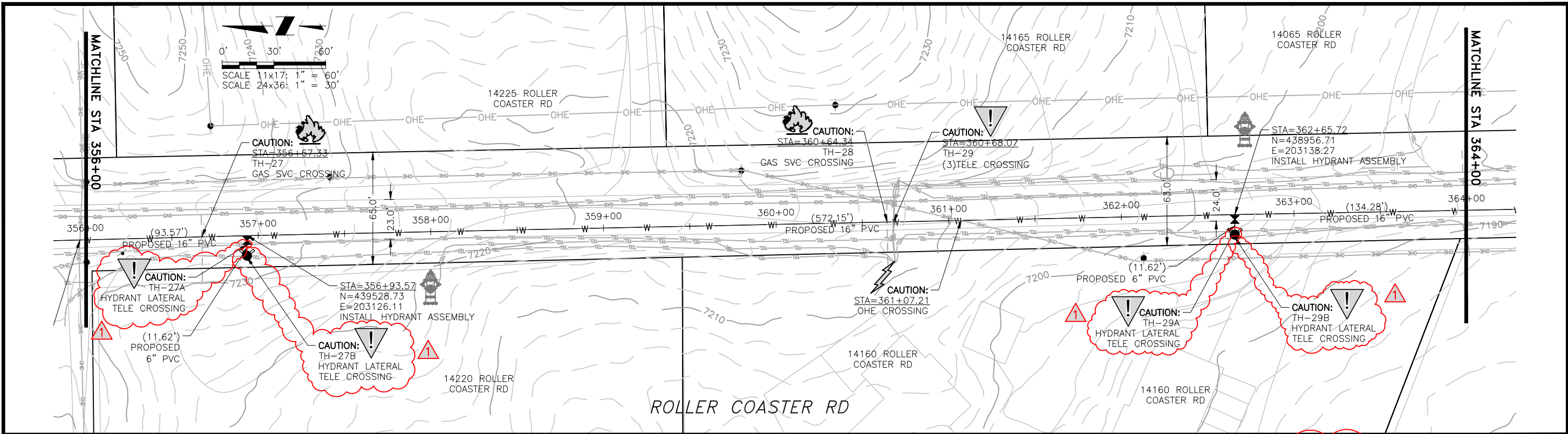
NO.	DESCRIPTION	BY	DATE
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70% DESIGN

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD  
**A2-07**  
 SHEET ---OF

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2022/10/07 10:45 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_A2\_South.dwg



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2 - PLAN AND PROFILE  
 STATION 356+00 TO 364+00

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JLB		10/05/22
2				
3				
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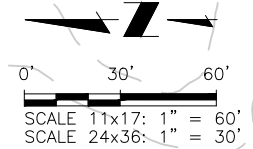
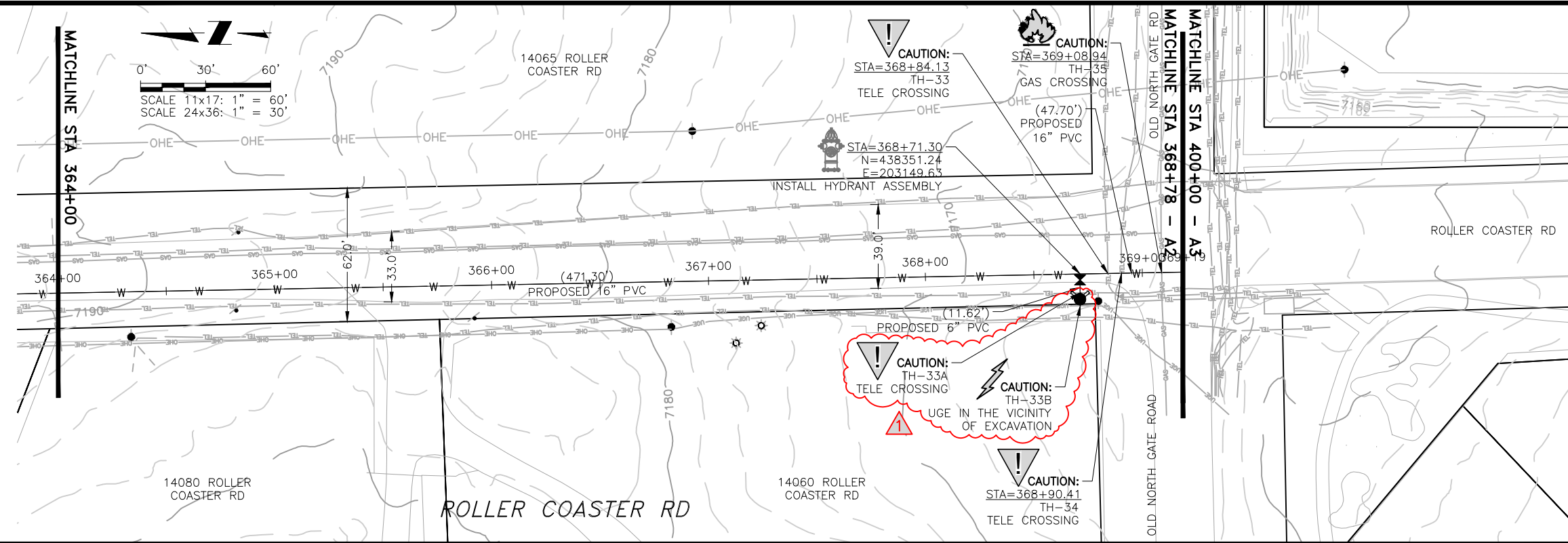
**70% DESIGN**

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A2-08**  
 SHEET ---OF

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2022/10/07 10:46 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment A - Baptist - Roller Coaster\22429\_A2\_South.dwg



**CAUTION:**  
 STA=368+84.13  
 TH-33  
 TELE CROSSING

**CAUTION:**  
 STA=369+08.94  
 TH-35  
 GAS CROSSING  
 (47.70')  
 PROPOSED  
 16" PVC

**CAUTION:**  
 TH-33A  
 TELE CROSSING

**CAUTION:**  
 UGE IN THE VICINITY  
 OF EXCAVATION

**CAUTION:**  
 STA=368+90.41  
 TH-34  
 TELE CROSSING

ALL UTILITIES DEPICTED AT QL B UNLESS NOTED OTHERWISE.

QLB DATA SUMMARY

TH33 - UNDERGROUND COMMUNICATIONS  
 - DEPTH: TBD  
 - NORTHING: 438338.40  
 - EASTING: 203149.87

TH33A - TELE (HYD. LATERAL)  
 - DEPTH: TBD  
 - NORTHING: 438351.24  
 - EASTING: 203140.86

TH33B - UGE IN VICINITY OF EXCAVATION (HYD. LATERAL)  
 - DEPTH: TBD  
 - NORTHING: 438351.13  
 - EASTING: 203124.99

TH34 - UNDERGROUND COMMUNICATIONS  
 - DEPTH: TBD  
 - NORTHING: 438332.12  
 - EASTING: 203149.99

TH35 - XX" GAS LINE  
 - DEPTH: TBD  
 - NORTHING: 438313.60  
 - EASTING: 203150.33

**END CONSTRUCTION:**  
 STA:369+18.64, ELEV:7157.67  
 TIE-IN TO EXISTING 16" WL

**CAUTION:**  
 STA:368+90.41, ELEV:7159.26  
 TH-34  
 PROPOSED 16" W.L. CROSSES  
 UNDER TELE; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION

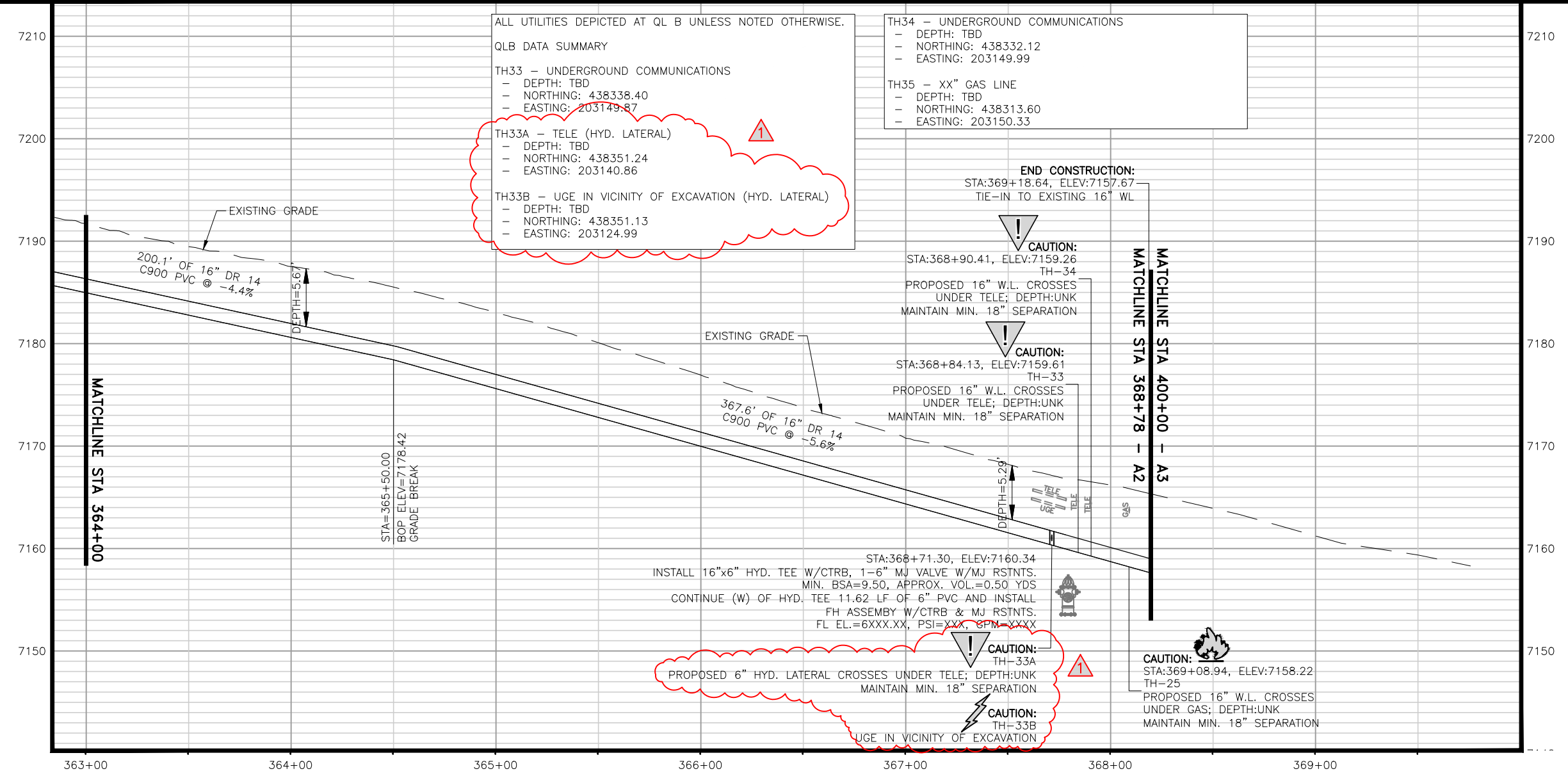
**CAUTION:**  
 STA:368+84.13, ELEV:7159.61  
 TH-33  
 PROPOSED 16" W.L. CROSSES  
 UNDER TELE; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION

STA:368+71.30, ELEV:7160.34  
 INSTALL 16"x6" HYD. TEE W/CTRB, 1-6" MJ VALVE W/MJ RSTNTS.  
 MIN. BSA=9.50, APPROX. VOL.=0.50 YDS  
 CONTINUE (W) OF HYD. TEE 11.62 LF OF 6" PVC AND INSTALL  
 FH ASSEMBY W/CTRB & MJ RSTNTS.  
 FL EL.=6XXX.XX, PSI=XXX, GPM=XXXX

**CAUTION:**  
 TH-33A  
 PROPOSED 6" HYD. LATERAL CROSSES UNDER TELE; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION

**CAUTION:**  
 UGE IN VICINITY OF EXCAVATION

**CAUTION:**  
 STA:369+08.94, ELEV:7158.22  
 TH-25  
 PROPOSED 16" W.L. CROSSES  
 UNDER GAS; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A2 - PLAN AND PROFILE  
 STATION 364+00 TO 368+79

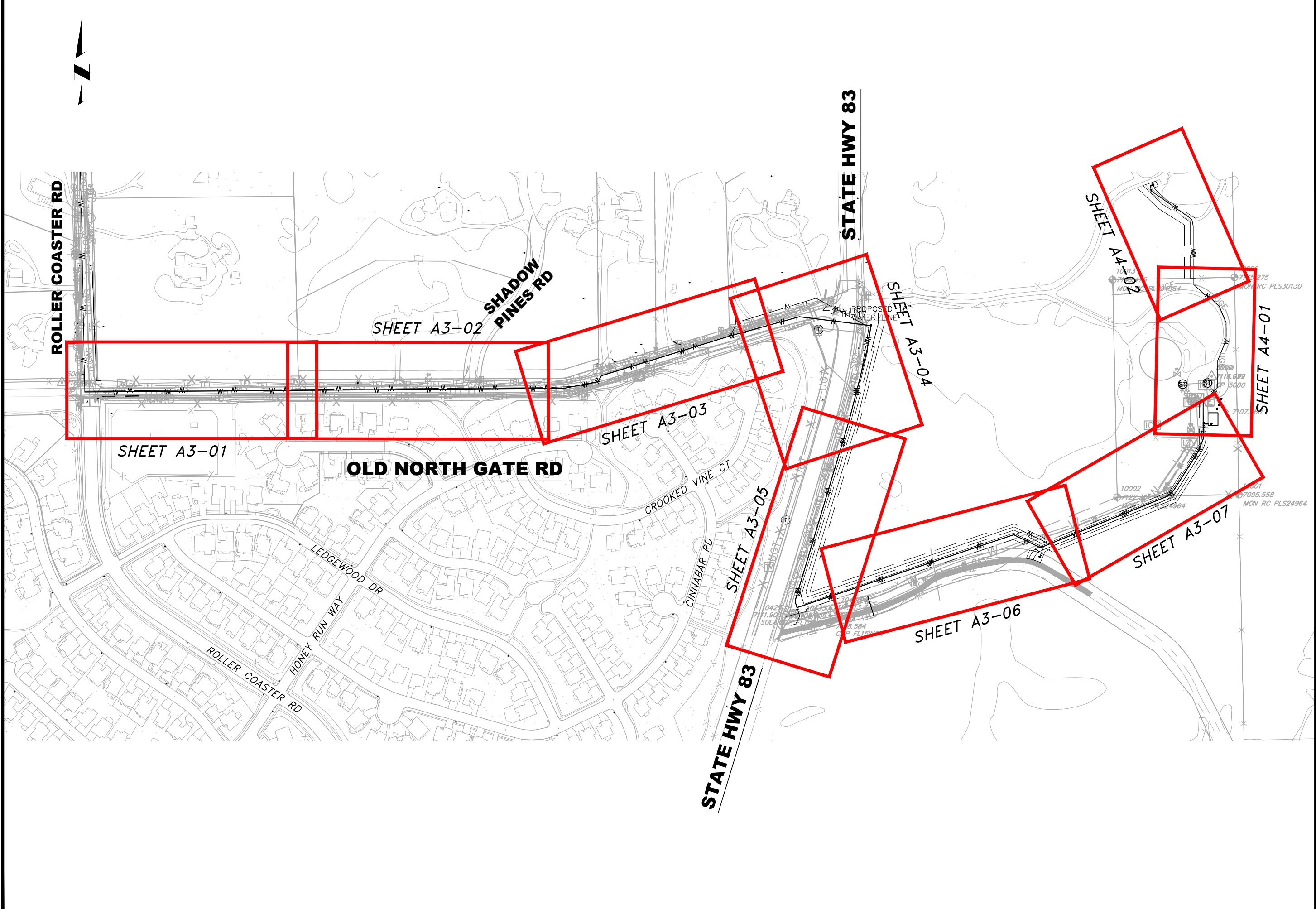
NO.	DESCRIPTION	REVISIONS		DATE
		BY	APP.	
1	REVISIONS 1	JLB		10/05/22
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6				
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70% DESIGN

Project No.: 224.29  
 Date: 06/03/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A2-09**  
 SHEET ---OF

2022/10/07 10:48 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Plan And Profile.dwg



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A3 KEY MAP

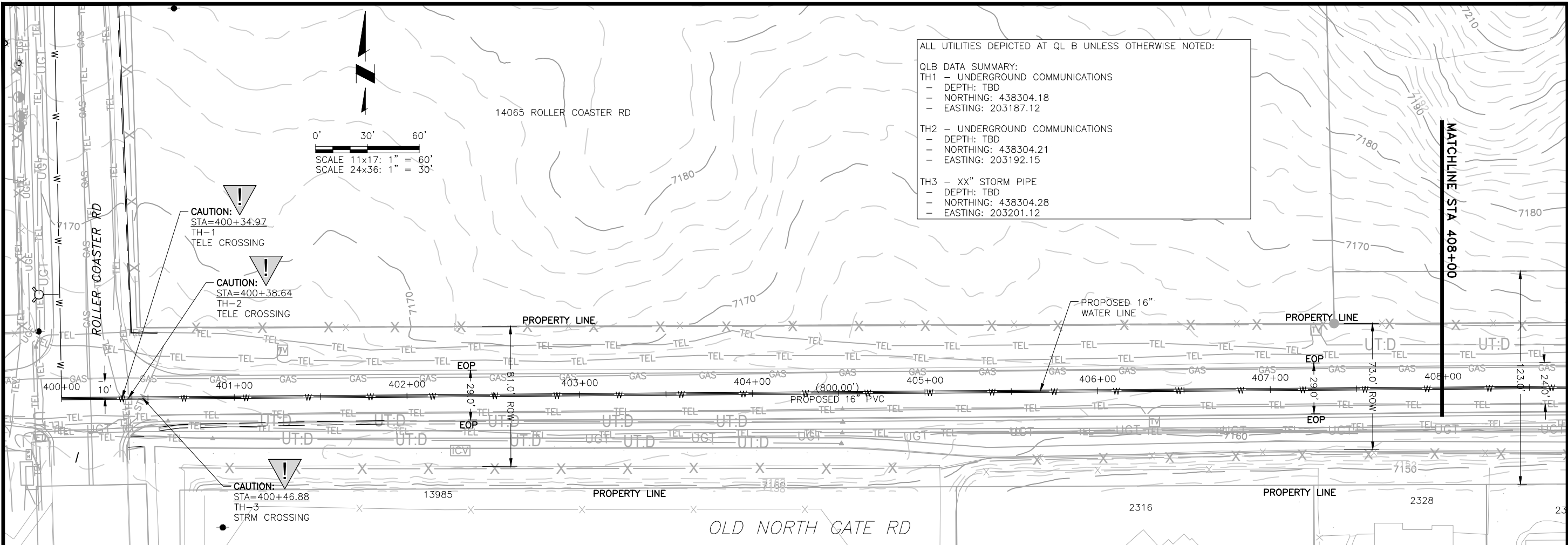
NO.	DESCRIPTION	BY	APP.	DATE
1				
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70% DESIGN

Project No.: 224.29  
 Date: 05/31/22  
 Design: GJD  
 Drawn: JLB  
 Check: MLD

SHEET ---- OF

2022/10/07 10:49 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Plan And Profile.dwg



ALL UTILITIES DEPICTED AT QL B UNLESS OTHERWISE NOTED:

QLB DATA SUMMARY:  
 TH1 - UNDERGROUND COMMUNICATIONS  
 - DEPTH: TBD  
 - NORTHING: 438304.18  
 - EASTING: 203187.12

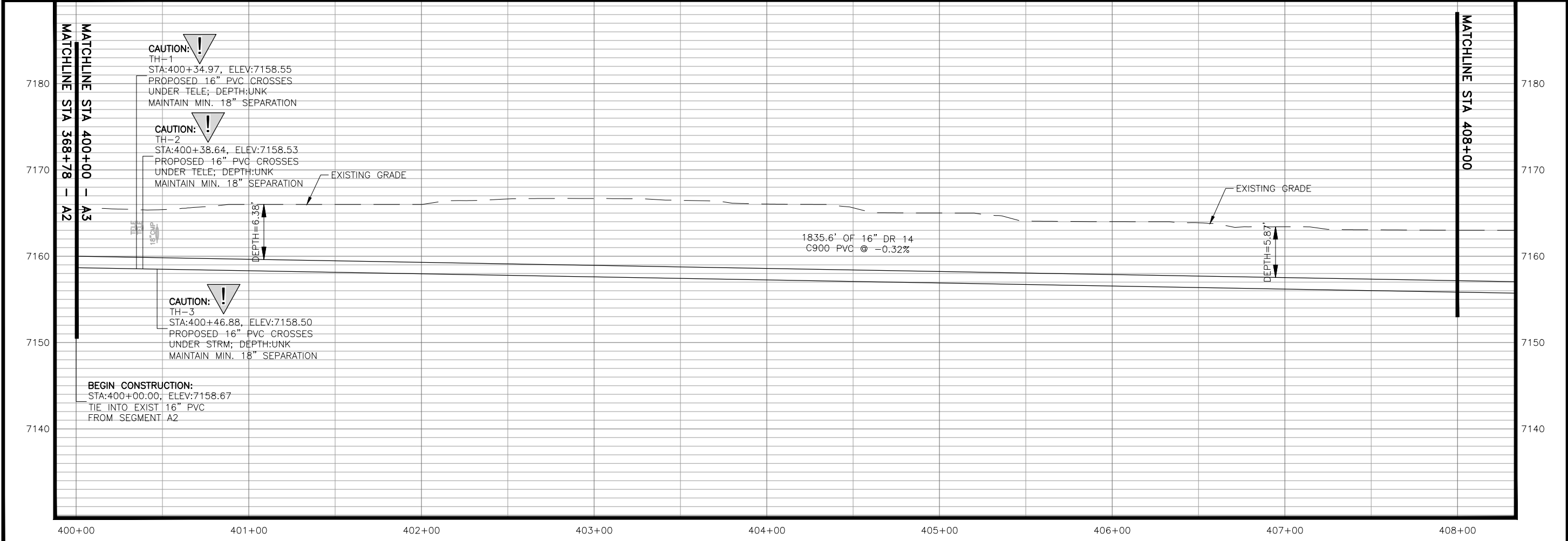
TH2 - UNDERGROUND COMMUNICATIONS  
 - DEPTH: TBD  
 - NORTHING: 438304.21  
 - EASTING: 203192.15

TH3 - XX" STORM PIPE  
 - DEPTH: TBD  
 - NORTHING: 438304.28  
 - EASTING: 203201.12

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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A3 PLAN AND PROFILE  
 STATION 400+00 TO 408+00



**CAUTION:**  
 TH-1  
 STA:400+34.97, ELEV:7158.55  
 PROPOSED 16" PVC CROSSES  
 UNDER TELE; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION

**CAUTION:**  
 TH-2  
 STA:400+38.64, ELEV:7158.53  
 PROPOSED 16" PVC CROSSES  
 UNDER TELE; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION

**CAUTION:**  
 TH-3  
 STA:400+46.88, ELEV:7158.50  
 PROPOSED 16" PVC CROSSES  
 UNDER STRM; DEPTH:UNK  
 MAINTAIN MIN. 18" SEPARATION

**BEGIN CONSTRUCTION:**  
 STA:400+00.00, ELEV:7158.67  
 TIE INTO EXIST 16" PVC  
 FROM SEGMENT A2

NO.	DESCRIPTION	BY	APP.	DATE
1				
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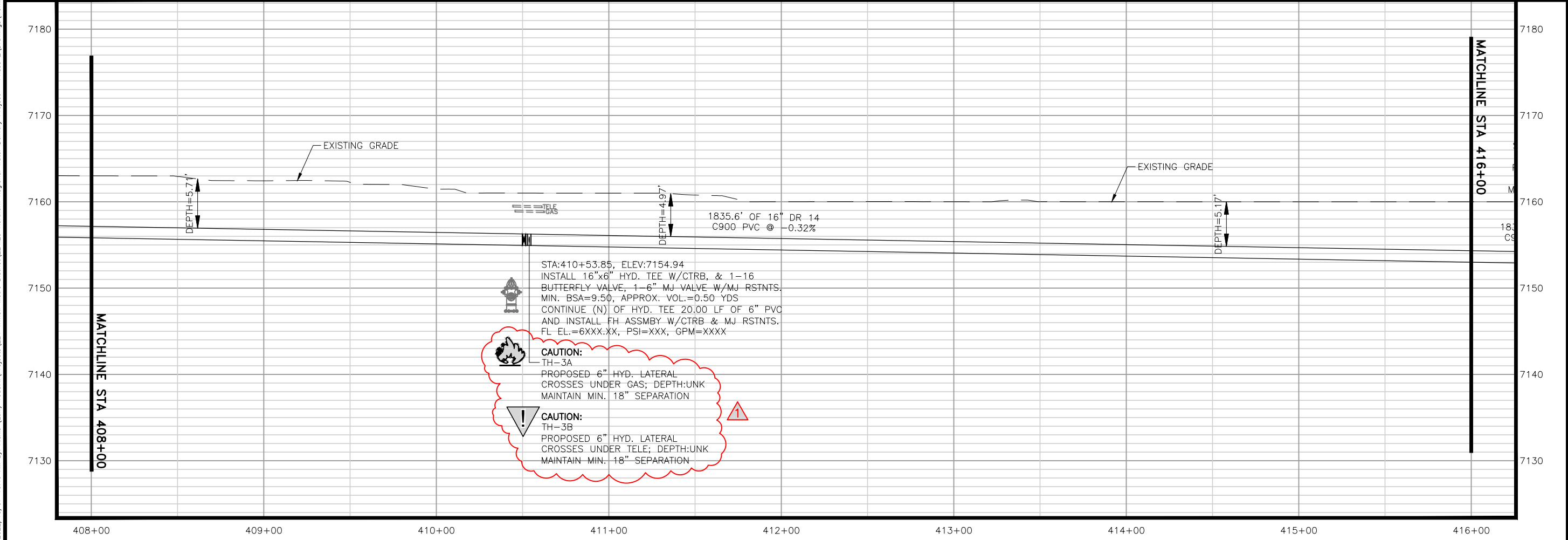
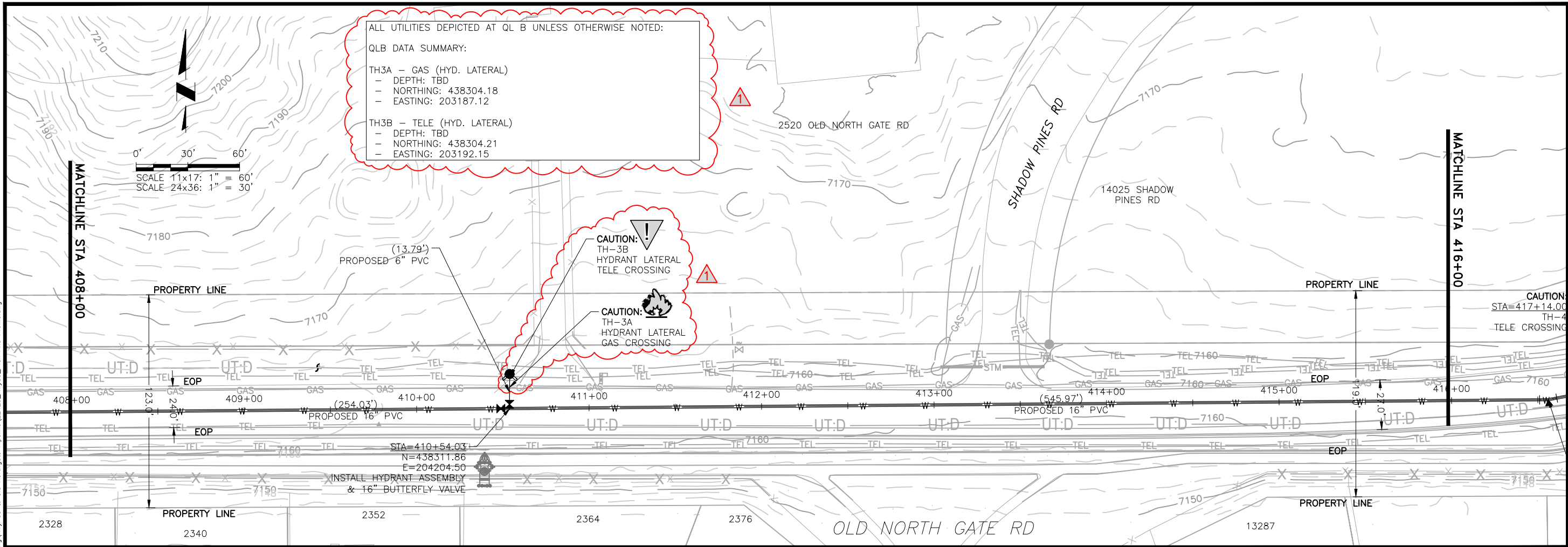
**70% DESIGN**

Project No.: 224.29  
 Date: 05/31/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A3-01**  
 SHEET ---OF



2022/10/07 10:49 AM By: Alexis (Lex) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Plan And Profile.dwg



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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A3 PLAN AND PROFILE  
 STATION 408+00 TO 416+00

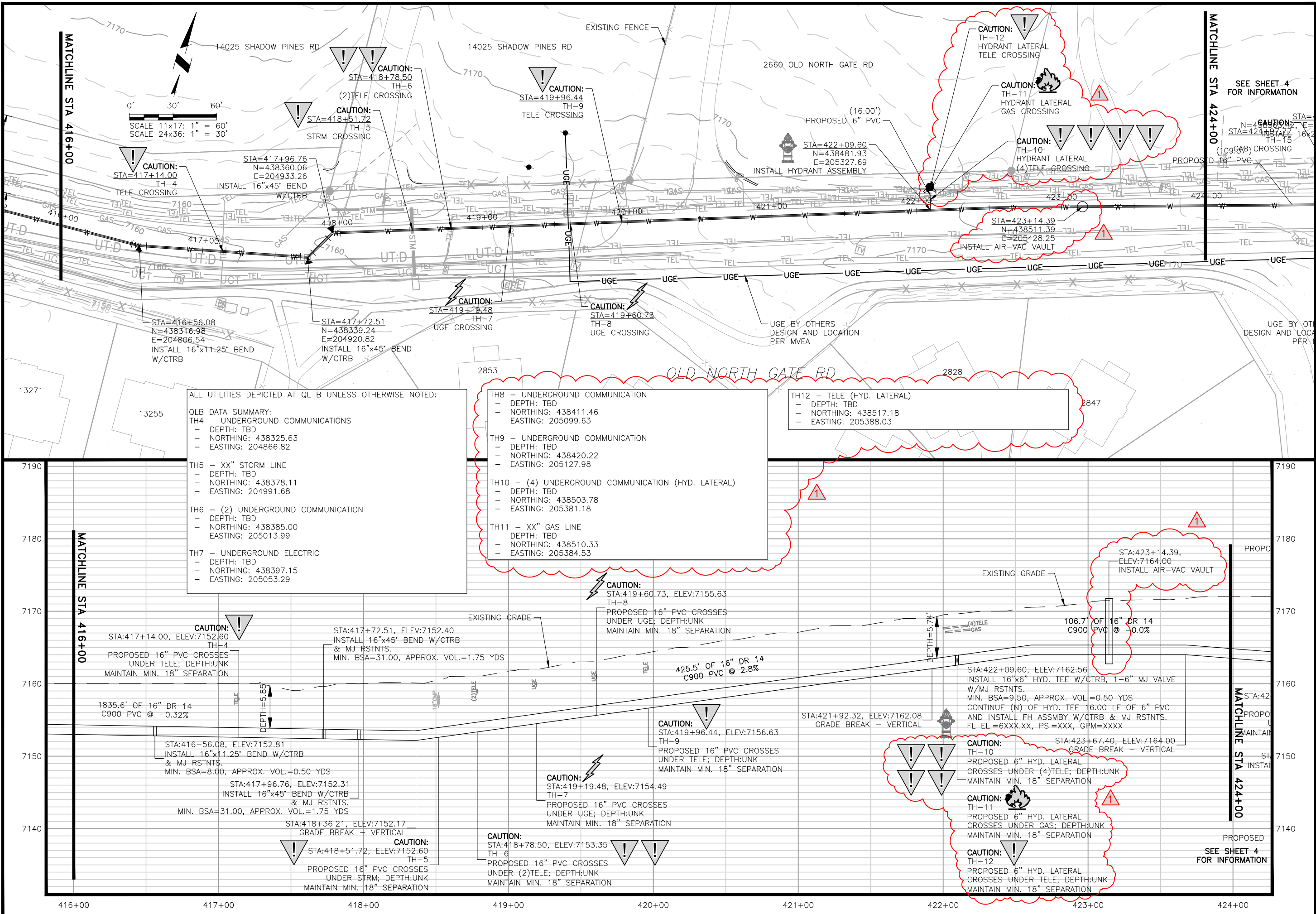
REVISIONS		BY	APP.	DATE
NO.	DESCRIPTION	JLB		
1	REVISIONS 1			10/05/22
2				
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**70% DESIGN**

Project No.: 224.29  
 Date: 05/31/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A3-02**  
 SHEET ---OF

2022/10/07 10:50 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Plan And Profile.dwg



ALL UTILITIES DEPICTED AT QL B UNLESS OTHERWISE NOTED:

**QLB DATA SUMMARY:**

**TH4 - UNDERGROUND COMMUNICATIONS**  
 - DEPTH: TBD  
 - NORTHING: 438325.63  
 - EASTING: 204866.82

**TH5 - XX" STORM LINE**  
 - DEPTH: TBD  
 - NORTHING: 438378.11  
 - EASTING: 204991.68

**TH6 - (2) UNDERGROUND COMMUNICATION**  
 - DEPTH: TBD  
 - NORTHING: 438385.00  
 - EASTING: 205013.99

**TH7 - UNDERGROUND ELECTRIC**  
 - DEPTH: TBD  
 - NORTHING: 438397.15  
 - EASTING: 205053.29

**TH8 - UNDERGROUND COMMUNICATION**  
 - DEPTH: TBD  
 - NORTHING: 438411.46  
 - EASTING: 205099.63

**TH9 - UNDERGROUND COMMUNICATION**  
 - DEPTH: TBD  
 - NORTHING: 438420.22  
 - EASTING: 205127.98

**TH10 - (4) UNDERGROUND COMMUNICATION (HYD. LATERAL)**  
 - DEPTH: TBD  
 - NORTHING: 438503.78  
 - EASTING: 205381.18

**TH11 - XX" GAS LINE**  
 - DEPTH: TBD  
 - NORTHING: 438510.33  
 - EASTING: 205384.53

**TH12 - TELE (HYD. LATERAL)**  
 - DEPTH: TBD  
 - NORTHING: 438517.18  
 - EASTING: 205388.03

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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A3 PLAN AND PROFILE  
 STATION 416+00 TO 424+00

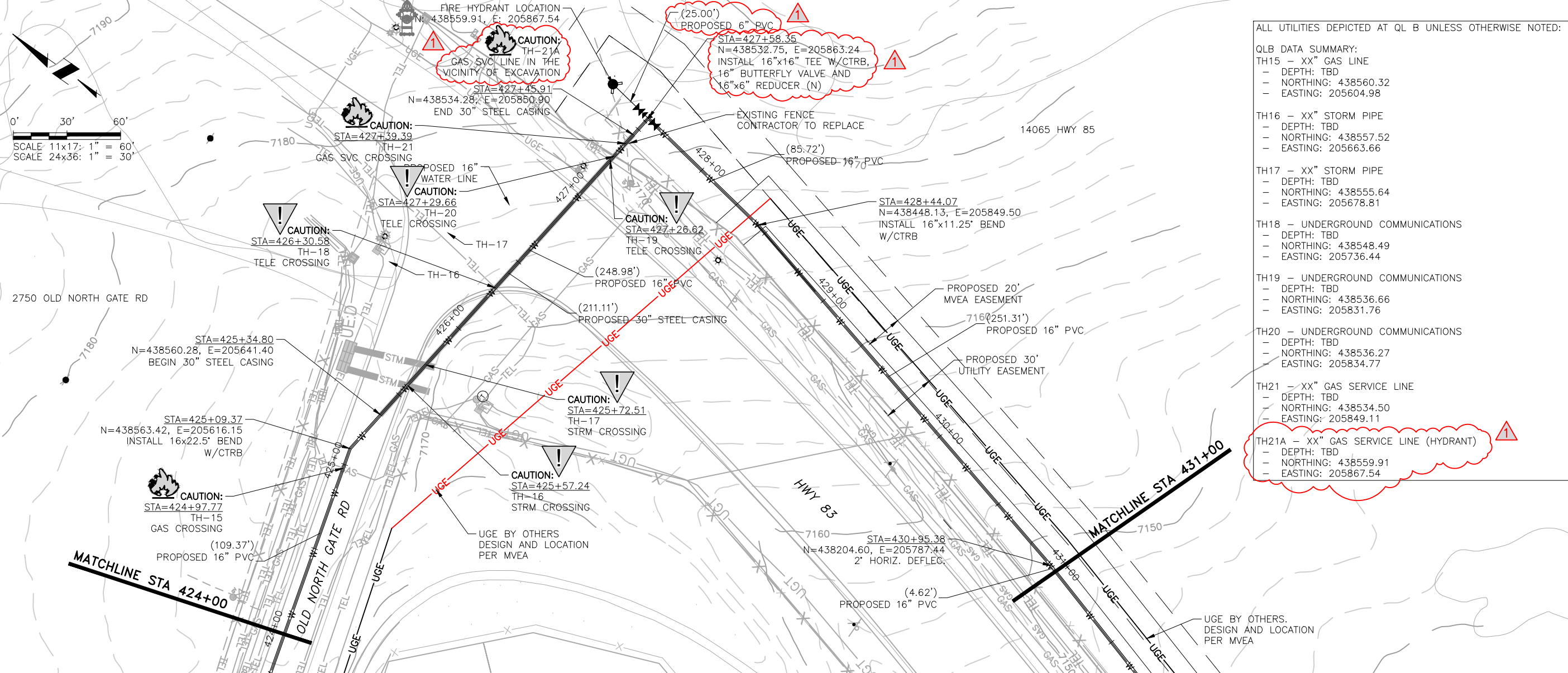
NO.	DESCRIPTION	BY	APP.	DATE
1	added AV vault	JLB		10/05/22
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**70% DESIGN**

Project No.: 224.29  
 Date: 05/31/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A3-03**  
 SHEET ----OF

2022/10/07 10:51 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Plan And Profile.dwg



ALL UTILITIES DEPICTED AT QL B UNLESS OTHERWISE NOTED:

QLB DATA SUMMARY:  
 TH15 - XX" GAS LINE  
 - DEPTH: TBD  
 - NORTHING: 438560.32  
 - EASTING: 205604.98

TH16 - XX" STORM PIPE  
 - DEPTH: TBD  
 - NORTHING: 438557.52  
 - EASTING: 205663.66

TH17 - XX" STORM PIPE  
 - DEPTH: TBD  
 - NORTHING: 438555.64  
 - EASTING: 205678.81

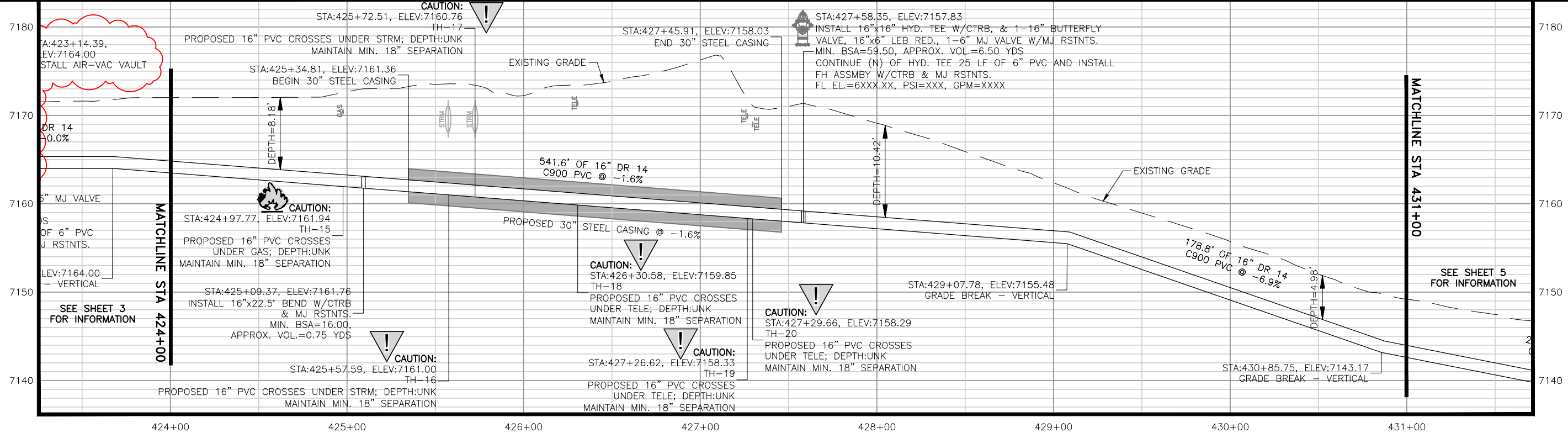
TH18 - UNDERGROUND COMMUNICATIONS  
 - DEPTH: TBD  
 - NORTHING: 438548.49  
 - EASTING: 205736.44

TH19 - UNDERGROUND COMMUNICATIONS  
 - DEPTH: TBD  
 - NORTHING: 438536.66  
 - EASTING: 205831.76

TH20 - UNDERGROUND COMMUNICATIONS  
 - DEPTH: TBD  
 - NORTHING: 438536.27  
 - EASTING: 205834.77

TH21 - XX" GAS SERVICE LINE  
 - DEPTH: TBD  
 - NORTHING: 438534.50  
 - EASTING: 205849.11

TH21A - XX" GAS SERVICE LINE (HYDRANT) !  
 - DEPTH: TBD  
 - NORTHING: 438559.91  
 - EASTING: 205867.54



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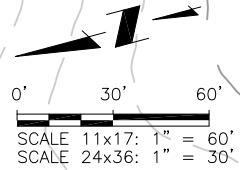
**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A3 PLAN AND PROFILE  
 STATION 424+00 TO 431+00

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS	JLB		10/05/22
2				
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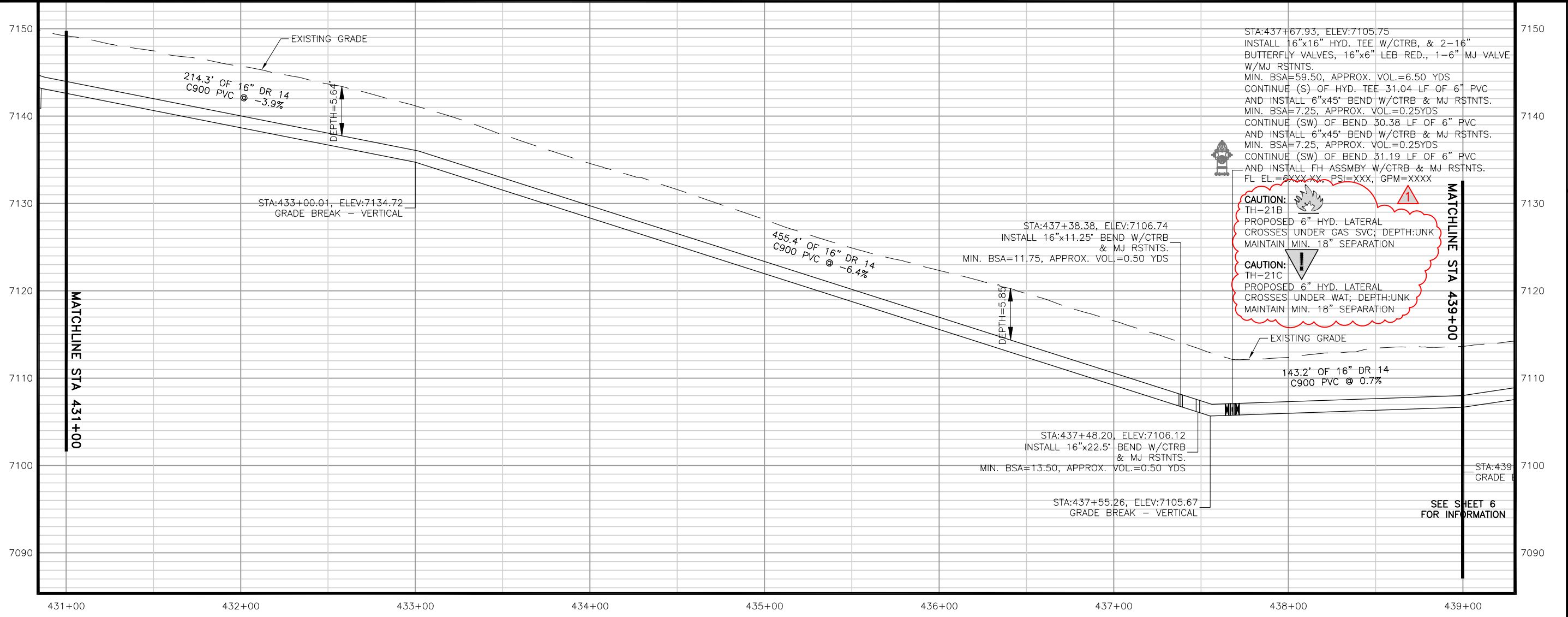
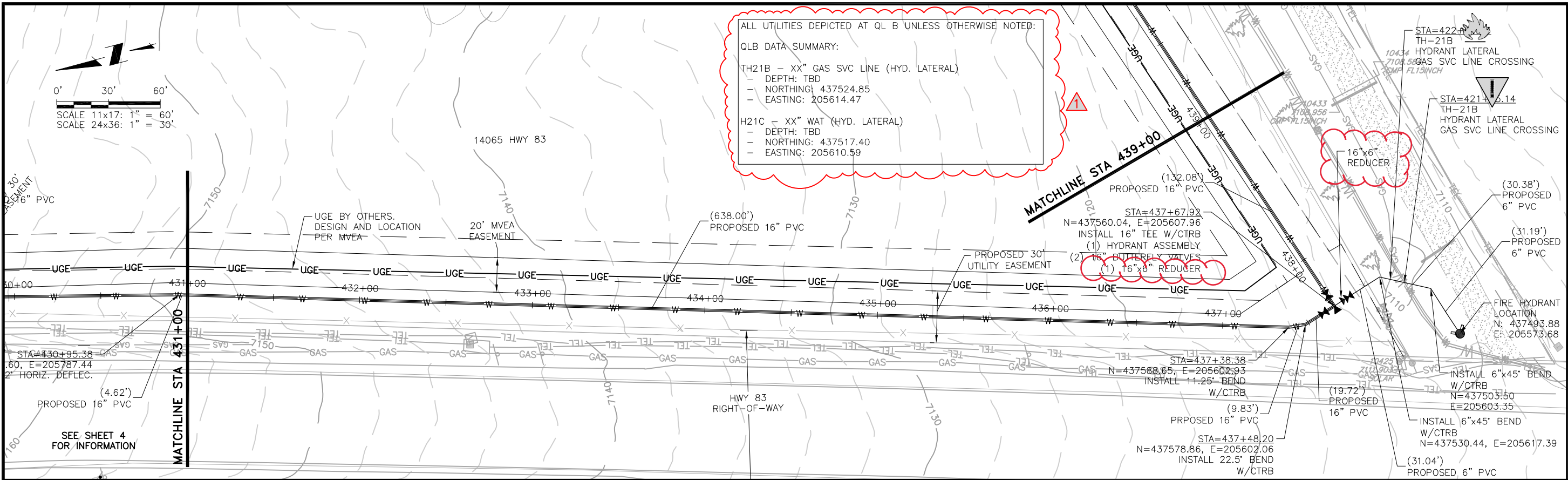
**70% DESIGN**

Project No.: 224.29  
 Date: 05/31/22  
 Design: MLG  
 Drawn: SNW  
 Check: MLG

**A3-04**  
 SHEET ---OF---



ALL UTILITIES DEPICTED AT QL B UNLESS OTHERWISE NOTED:  
 QLB DATA SUMMARY:  
 TH21B - XX" GAS SVC LINE (HYD. LATERAL)  
 - DEPTH: TBD  
 - NORTHING: 437524.85  
 - EASTING: 205614.47  
 H21C - XX" WAT (HYD. LATERAL)  
 - DEPTH: TBD  
 - NORTHING: 437517.40  
 - EASTING: 205610.59



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A3 PLAN AND PROFILE  
 STATION 431+00 TO 439+00

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JLB		10/05/22
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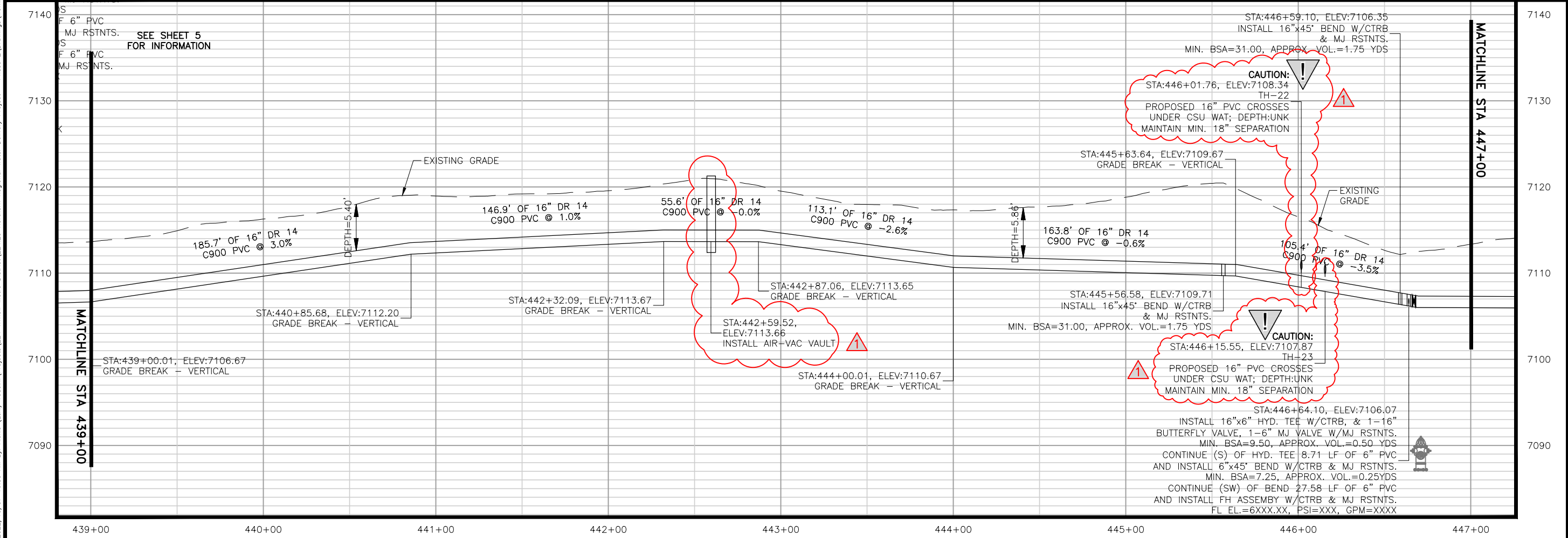
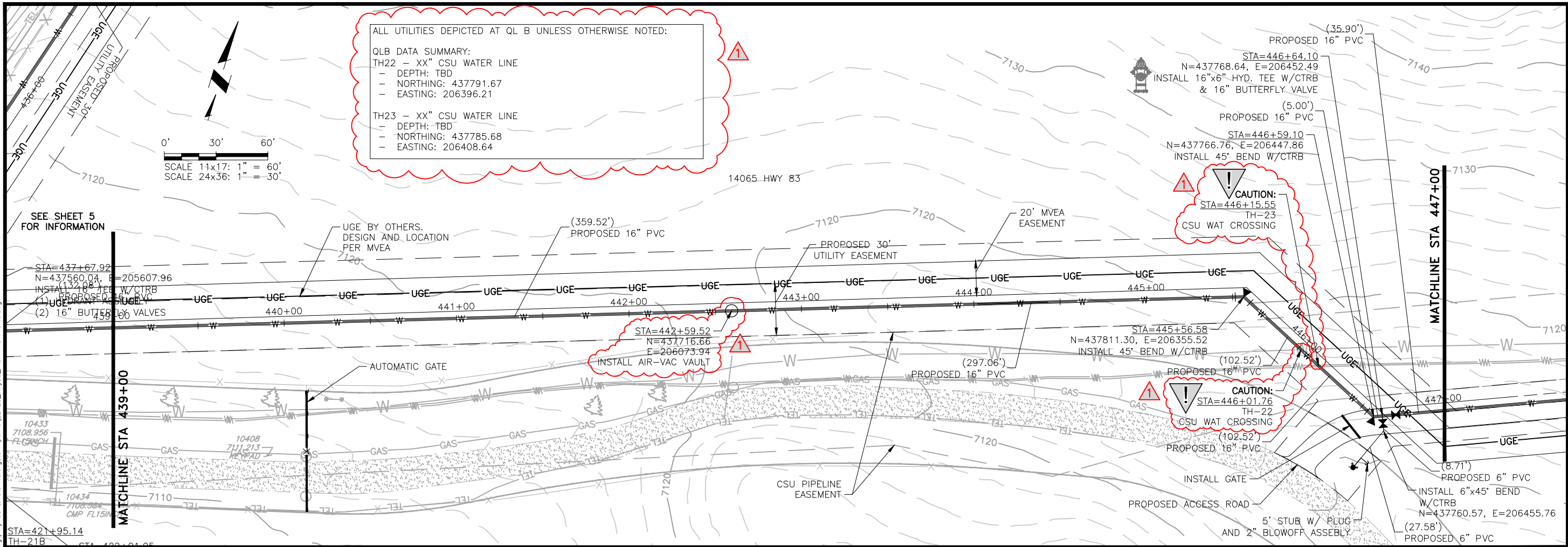
70% DESIGN

Project No.: 224.29  
 Date: 05/31/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A3-05**  
 SHEET --- OF ---

2022/10/14 2:49 PM By: Jeffrey Broy N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Plan And Profile.dwg

2022/10/07 10:53 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Plan And Profile.dwg



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A3 PLAN AND PROFILE  
 STATION 439+00 TO 447+00

NO.	DESCRIPTION	BY		DATE	
		APP.	JLB	10/05/22	
1	REVISIONS 1				
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**70% DESIGN**

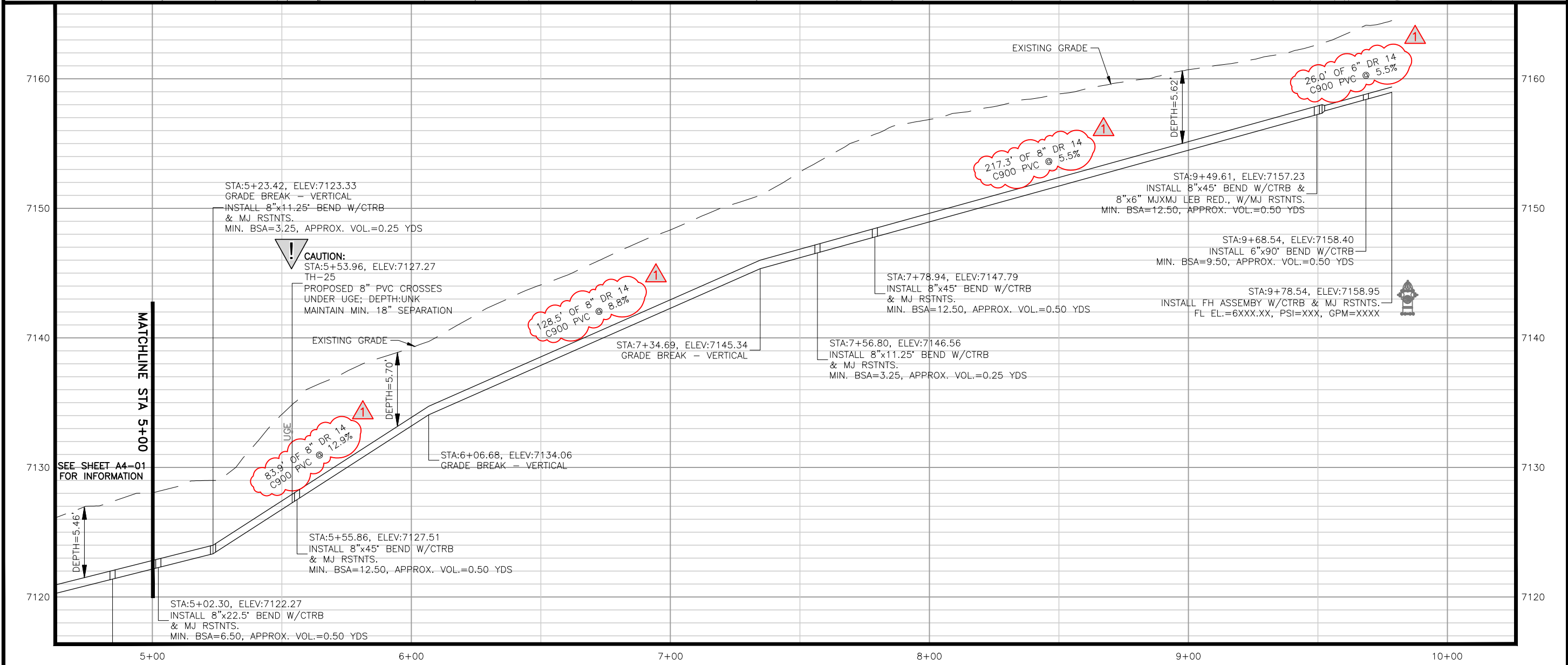
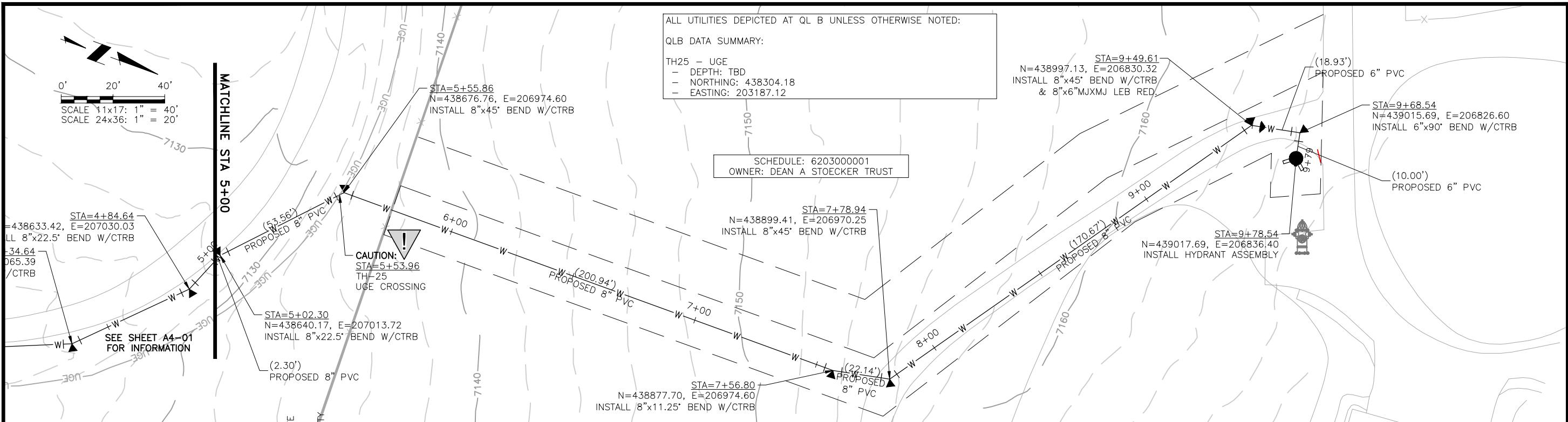
Project No.: 224.29  
 Date: 05/31/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A3-06**  
 SHEET ---OF---





2022/10/07 10:54 AM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Hwy 83 & Old Northgate Pipeline\22429\_Hwy83\_Plan And Profile.dwg



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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT A4 PLAN AND PROFILE  
 STATION 5+00 TO 9+79

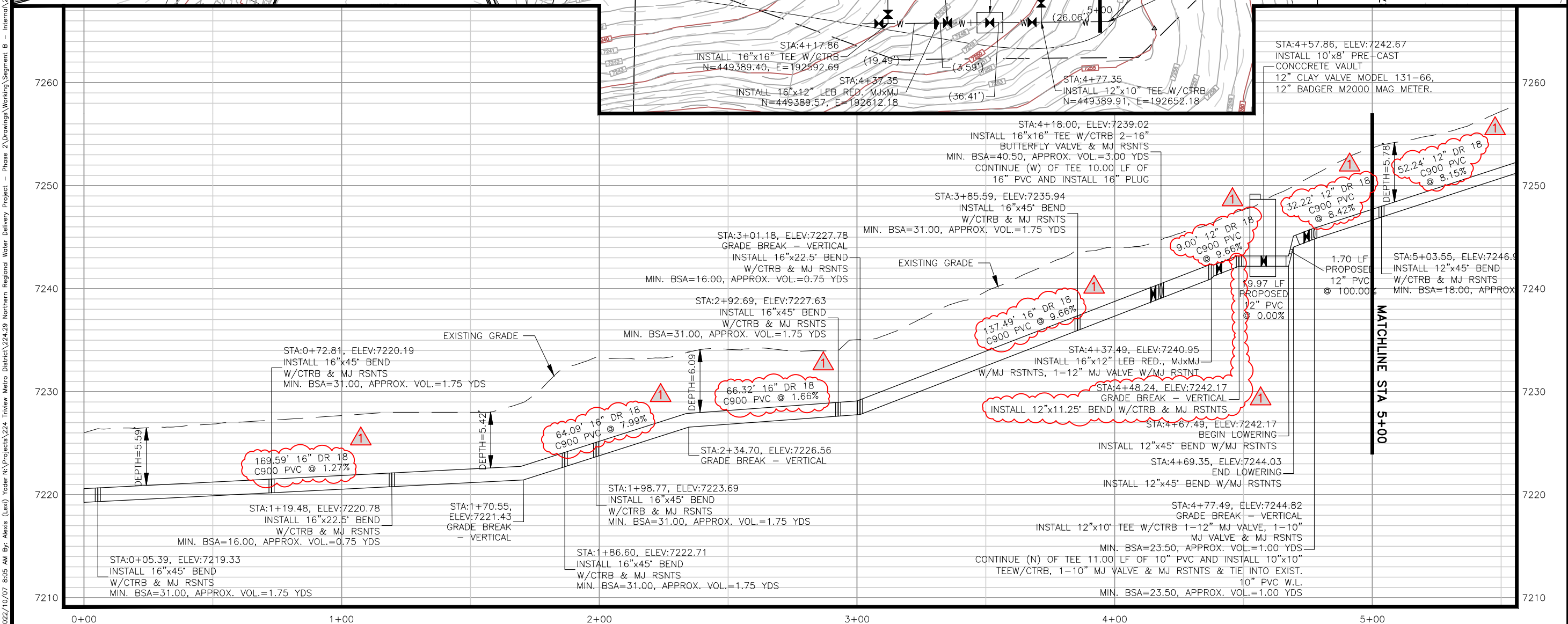
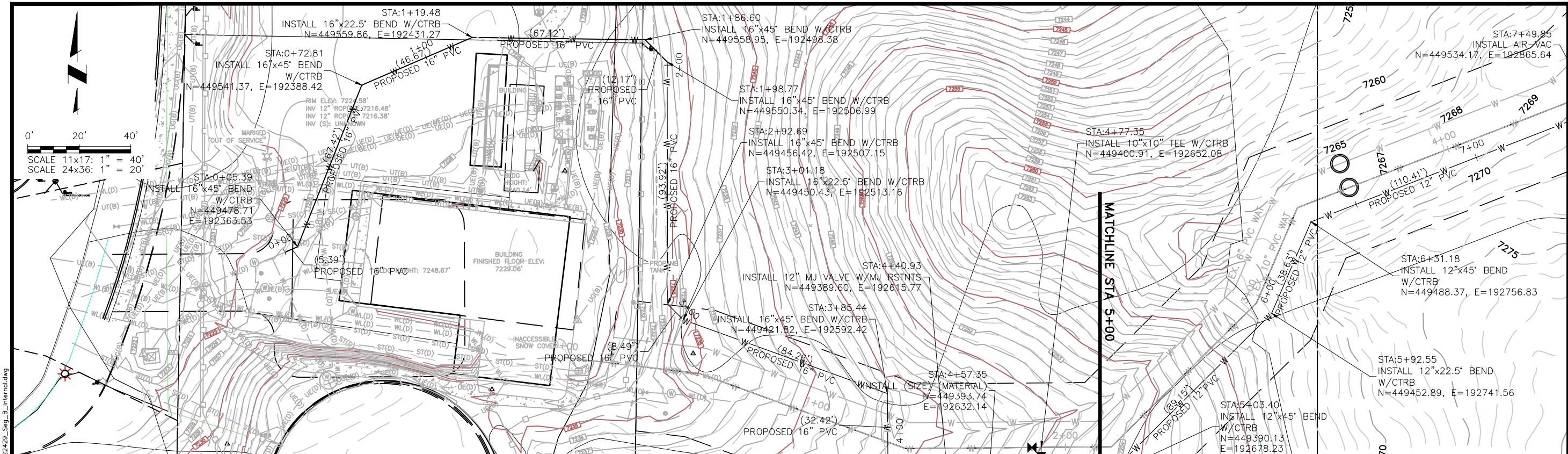
NO.	DESCRIPTION	BY	APP.	DATE
1	change 16" to 8"	JLB		10/05/22
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**70% DESIGN**

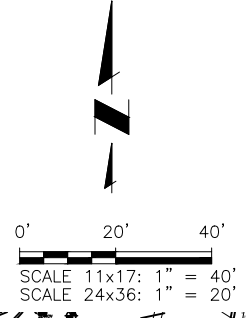
Project No.: 224.29  
 Date: 05/31/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**A4-02**  
 SHEET ---OF---





2022/10/07 8:05 AM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B - Internal\22429\_Seg\_B\_Internal.dwg



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DESIGNER'S OBLIGATION SHALL BE LIMITED TO THE DESIGN OF THE PROJECT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT B1 - PLAN AND PROFILE  
 STATION 0+00 TO 5+00

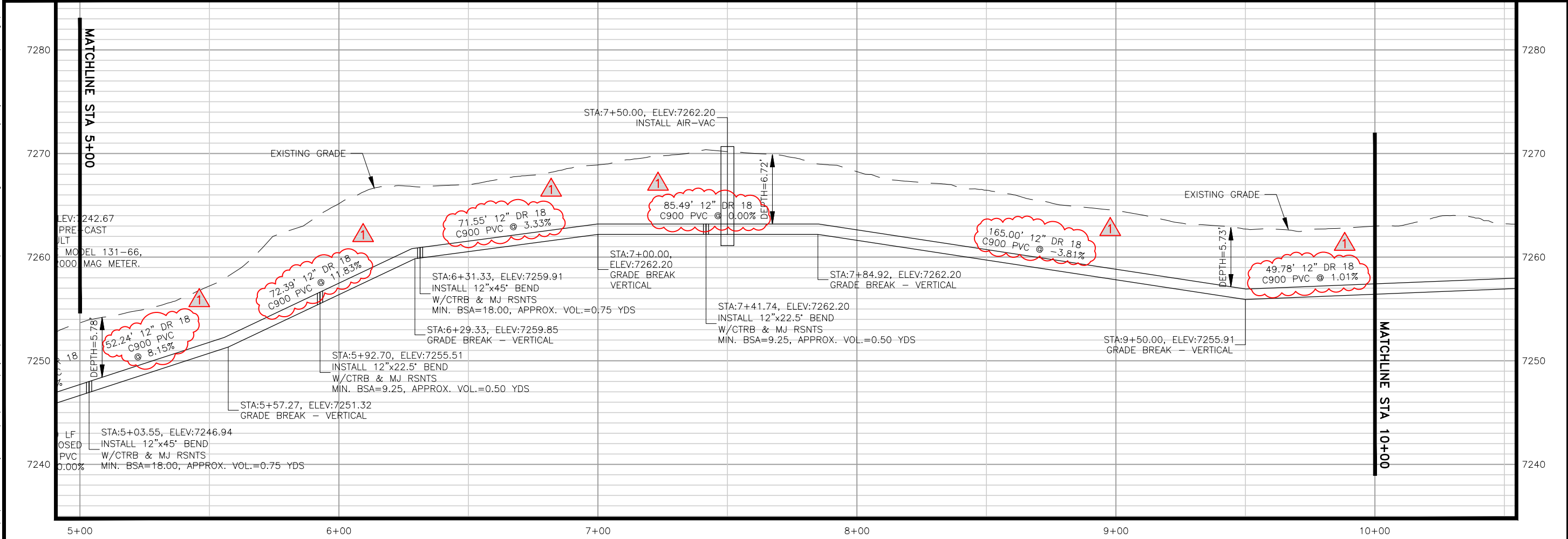
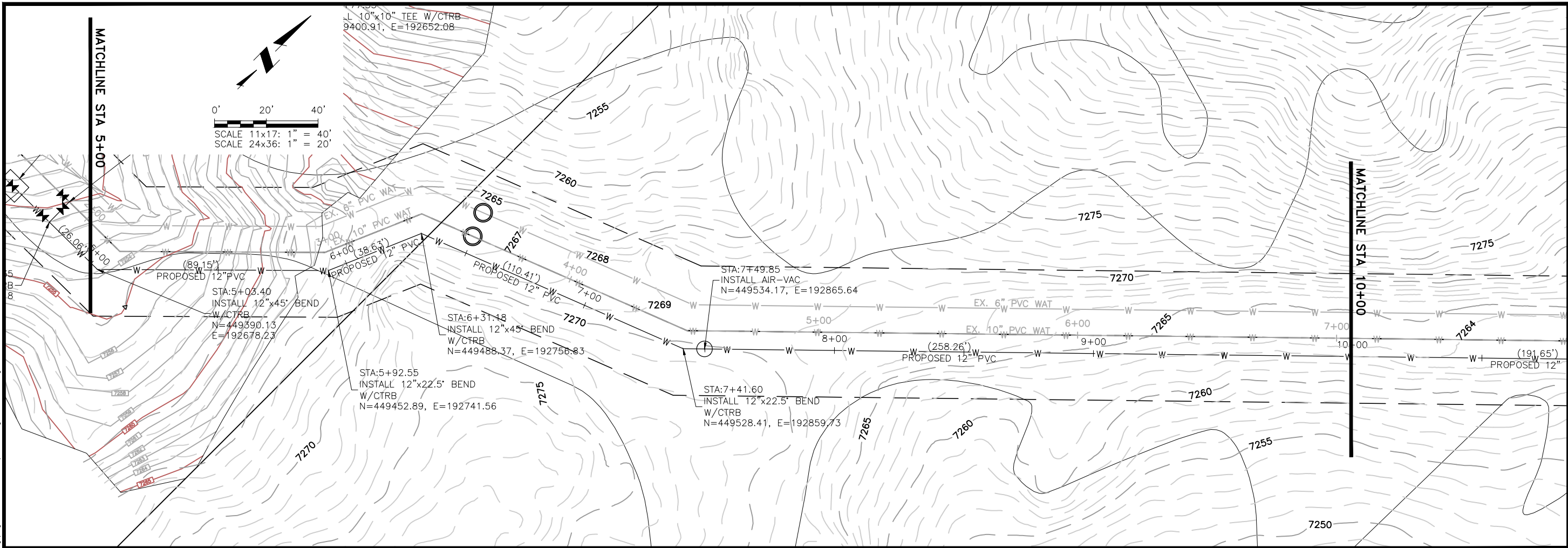
NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JLB		02/22
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**70% DESIGN**

Project No.: 224.29  
 Date: 09/07/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**B1-1**  
 SHEET --- OF ---

2022/10/07 8:06 AM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\22429 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B - Internal\22429\_Seg\_B\_Internal.dwg



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DESIGNER'S RESPONSIBILITY: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT B1 - PLAN AND PROFILE  
 STATION 5+00 TO 10+00

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JLB		05/22
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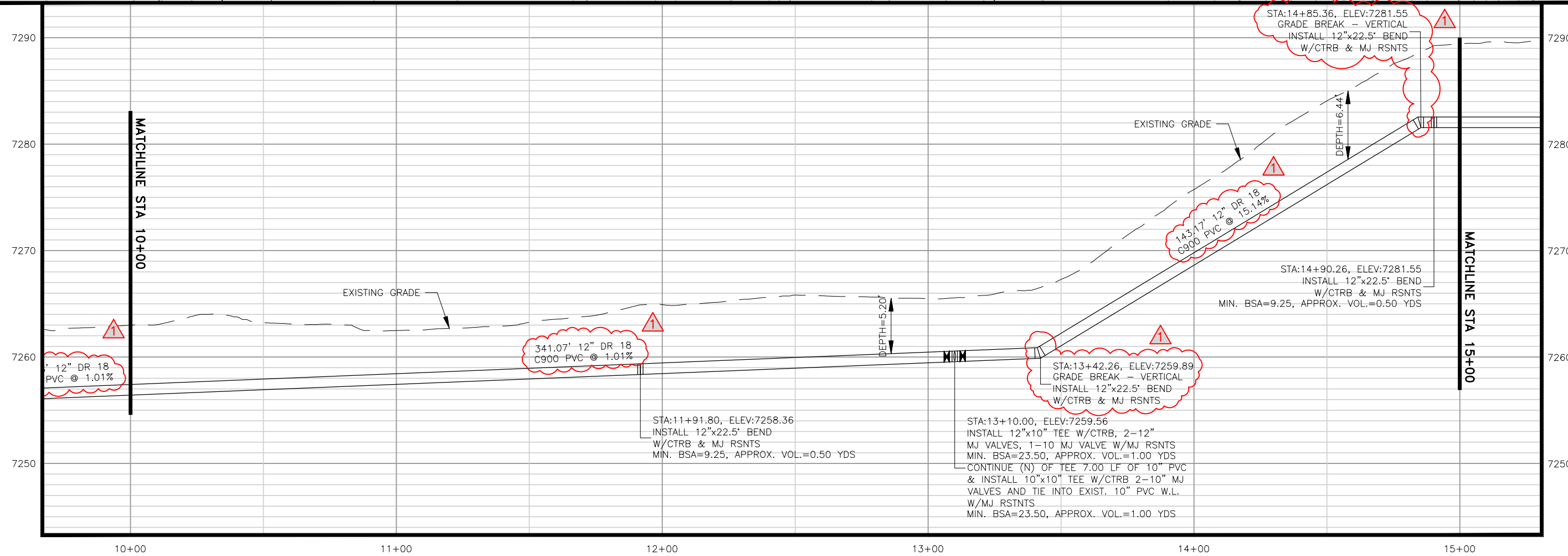
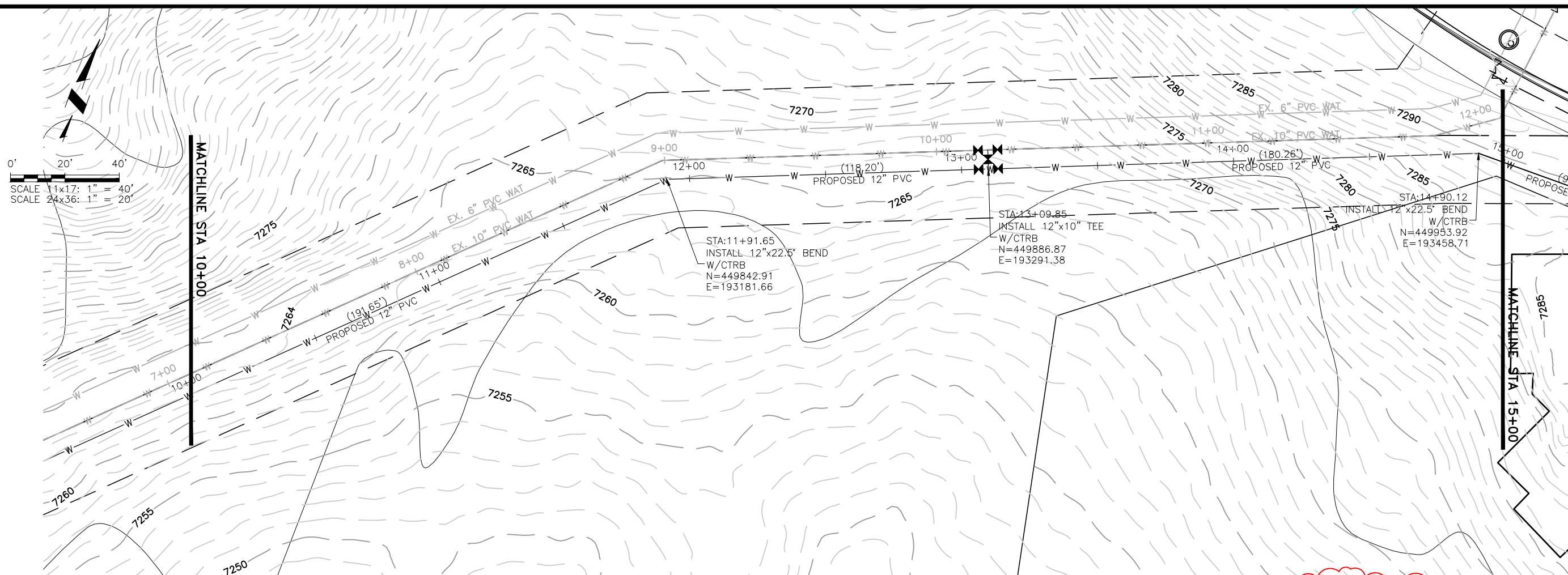
**70% DESIGN**

Project No.: 224.29  
 Date: 09/07/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**B1-2**  
 SHEET --- OF ---

2022/10/07 8:07 AM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B - Internal\22429\_Seg\_B\_Internal.dwg

0' 20' 40'  
 SCALE 1"=40'  
 SCALE 2"=80'



TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT B1 - PLAN AND PROFILE  
 STATION 10+00 TO 15+00

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JLB		10/05/22
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70% DESIGN

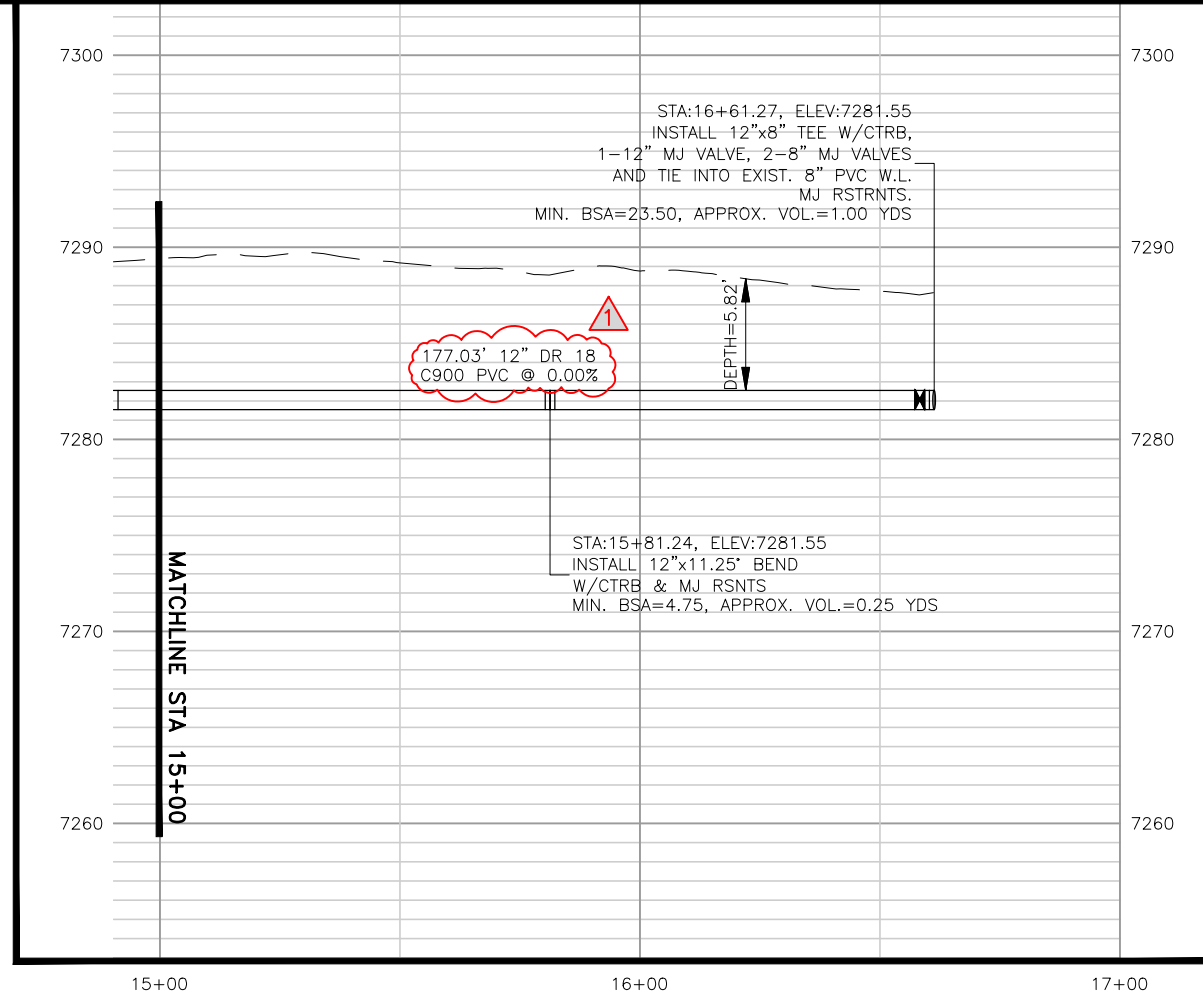
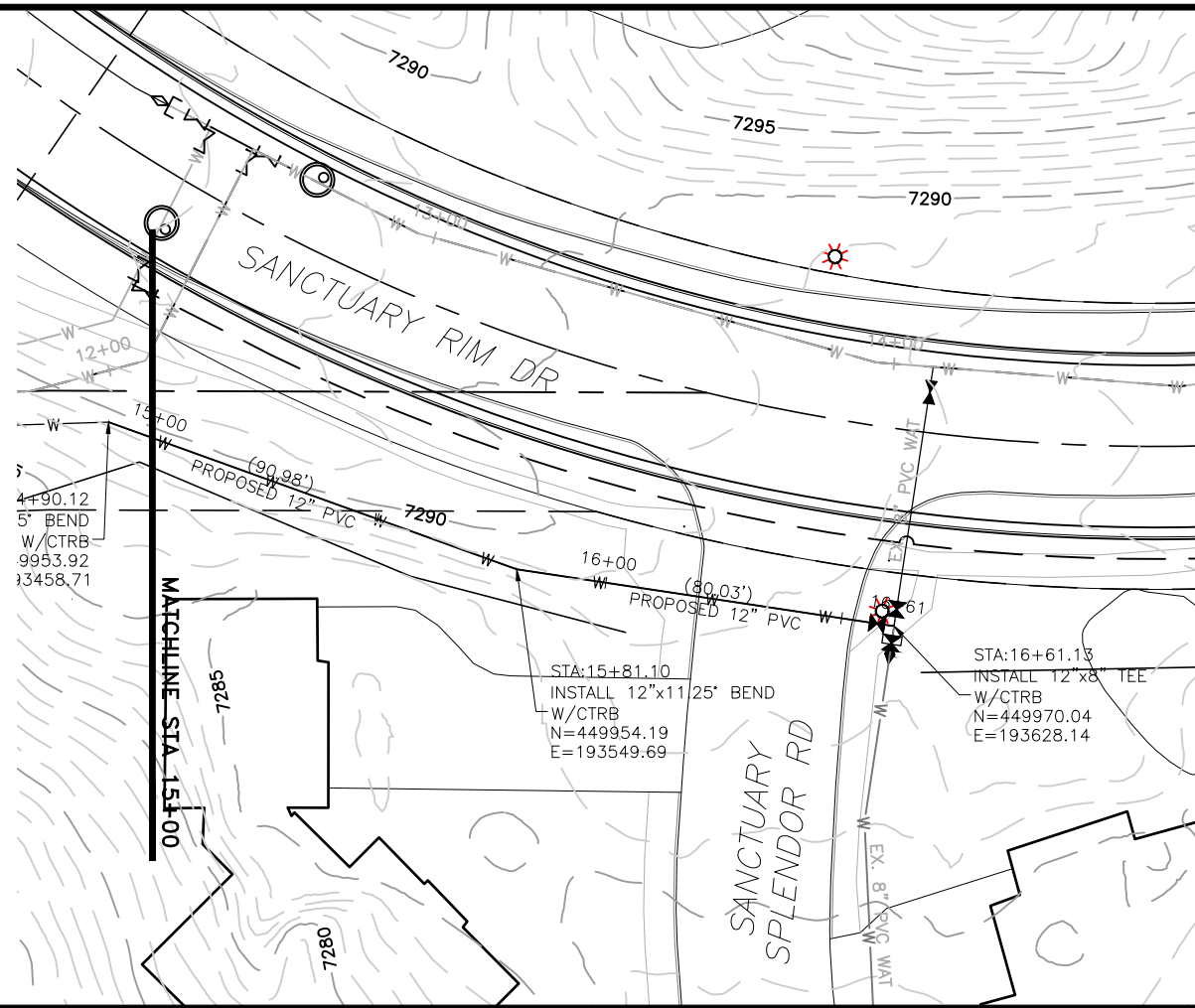
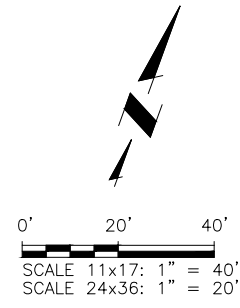
Project No.: 224.29  
 Date: 09/07/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

B1-3  
 SHEET --- OF ---

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 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

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2022/10/07 8:07 AM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B - Internal\22429\_Seg\_B\_Internal.dwg



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TRIVIEW METROPOLITAN DISTRICT  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT B1 - PLAN AND PROFILE  
 STATION 15+00 TO 16+61

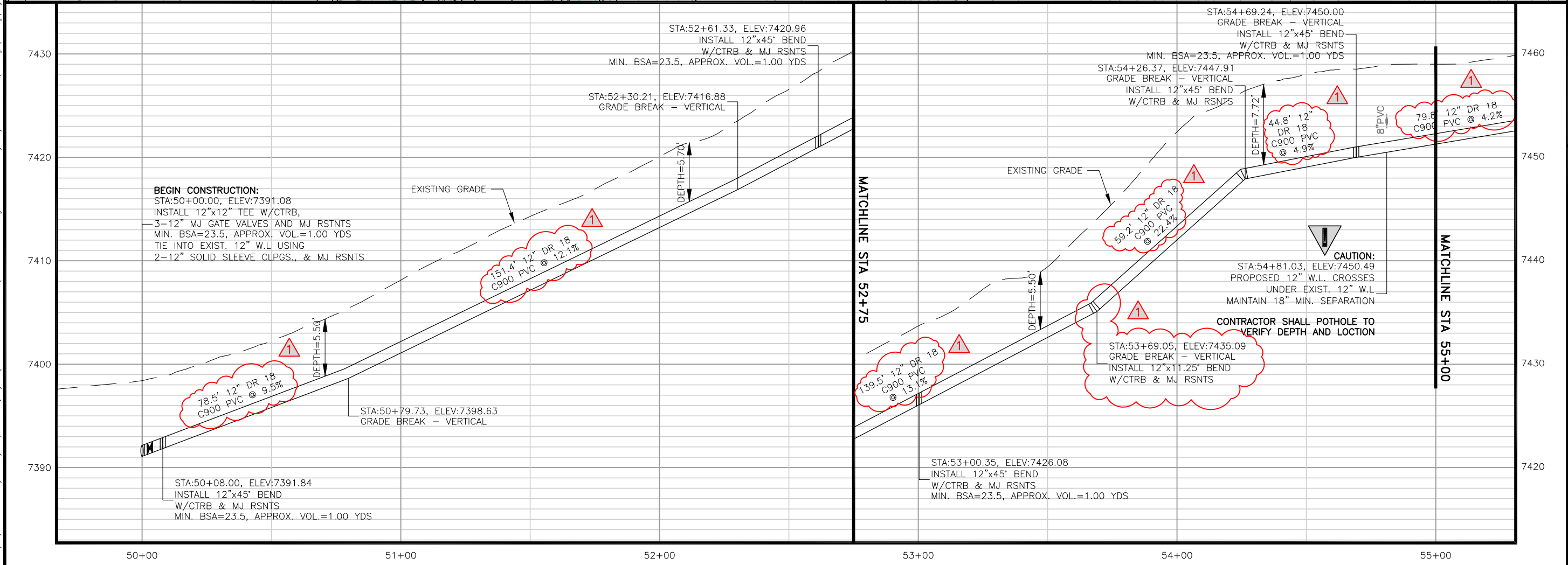
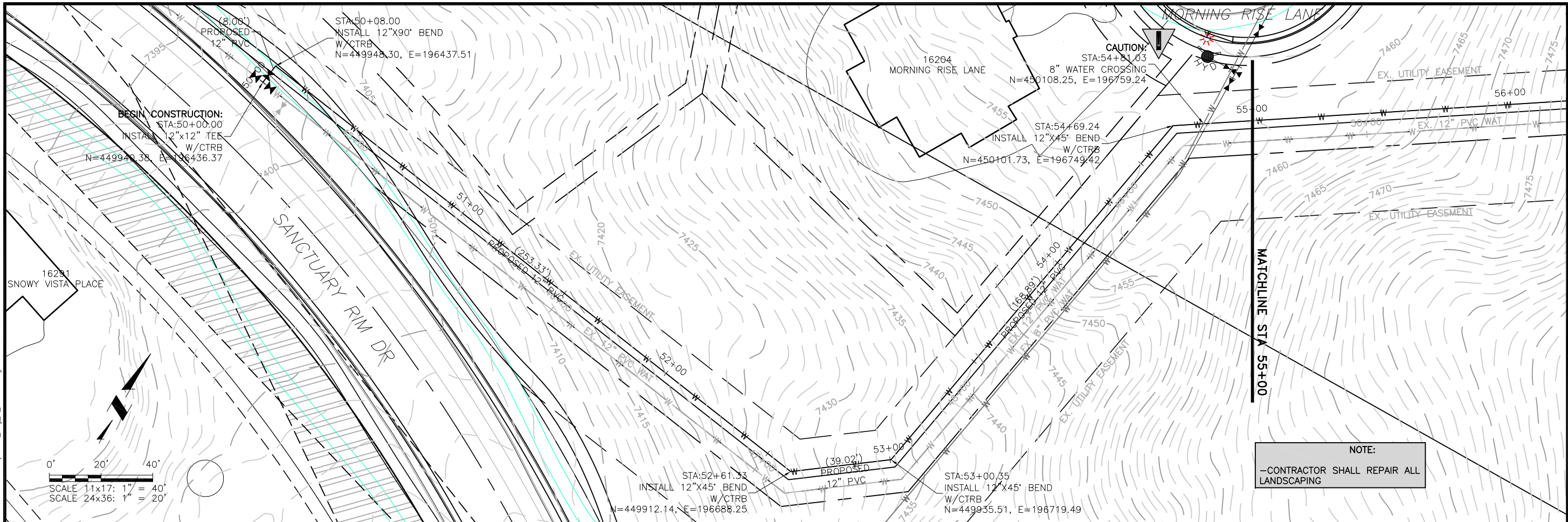
REVISIONS		BY	APP.	DATE
NO.	DESCRIPTION	JLB		
1	REVISIONS 1			10/05/22
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70% DESIGN

Project No.: 224.29  
 Date: 09/07/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

B1-4  
 SHEET ---OF

2022/10/14 3:11 PM By: Jeffrey Broy NA:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B - Internal\224229\_Seg\_B\_Internal.dwg



**NOTE:**  
-CONTRACTOR SHALL REPAIR ALL LANDSCAPING

**JDS-HYDRO** a Division of **RESPEC**  
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COLORADO SPRINGS, COLORADO 80919  
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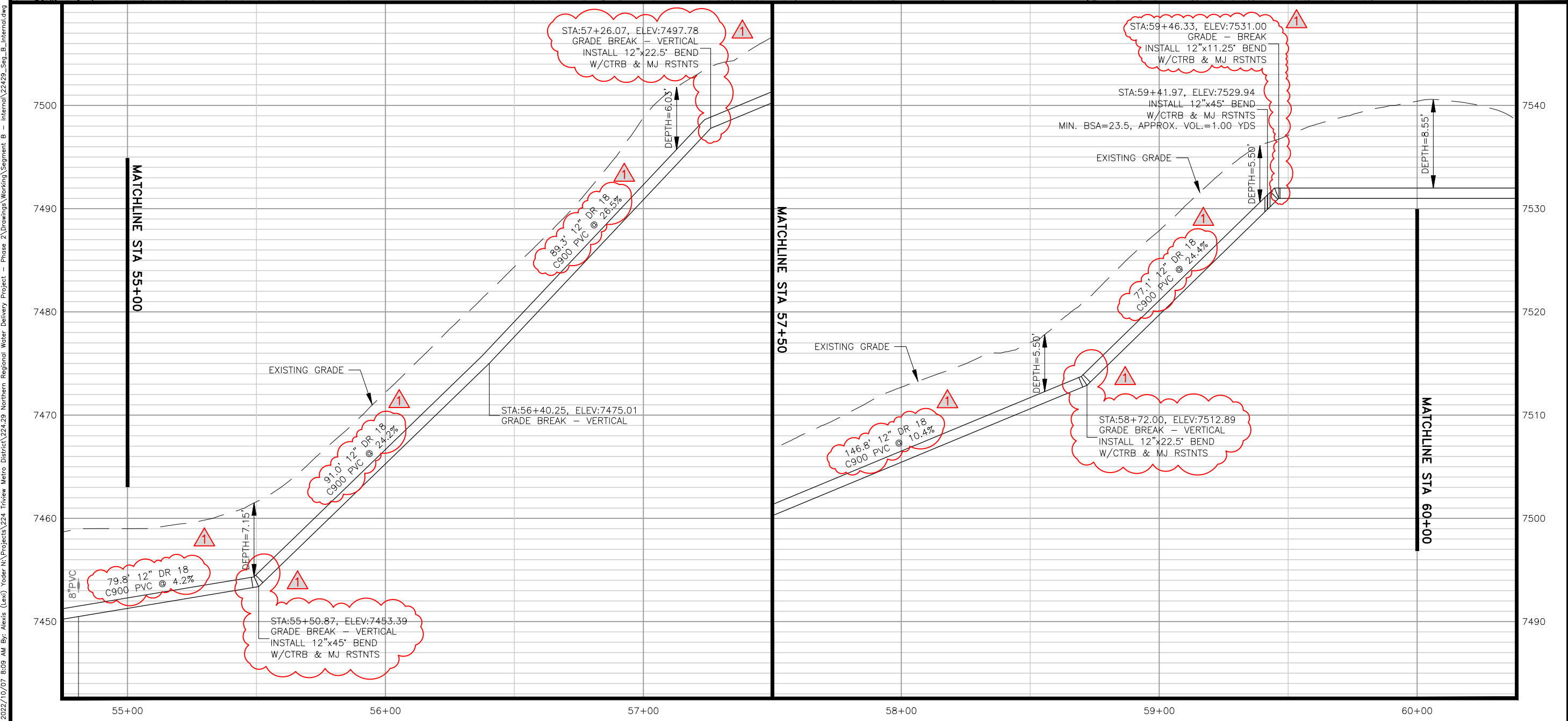
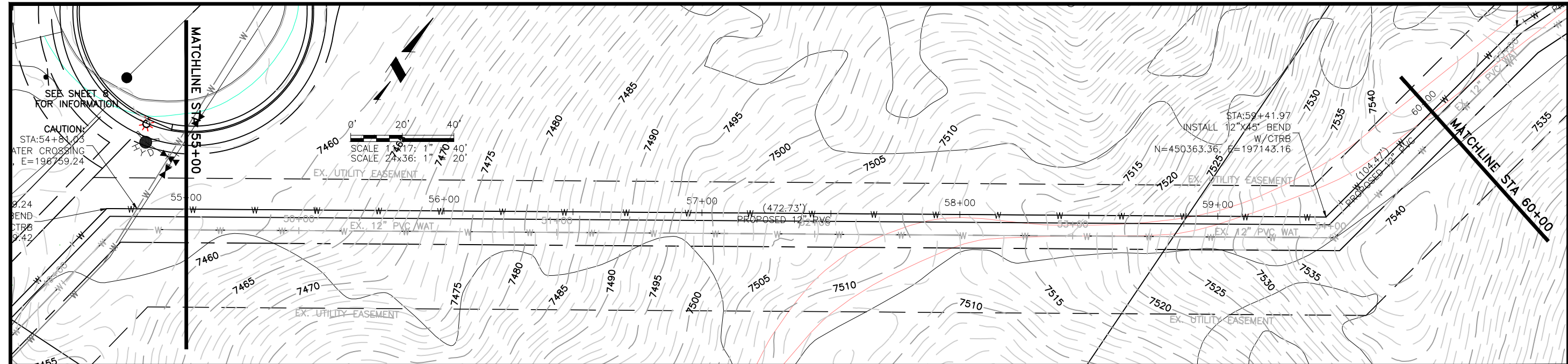
**TRIVIEW METROPOLITAN DISTRICT**  
NORTHERN DELIVERY SYSTEM  
SEGMENT B2 - PLAN AND PROFILE  
STATION 50+00 TO 55+00

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1			
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**70% DESIGN**

Project No.: 224.29  
Date: 09/07/22  
Design: MLD  
Drawn: SNW  
Check: MLD

**B2-1**  
SHEET ---OF



2022/10/07 8:09 AM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B - Internal\22429\_Seg\_B\_Internal.dwg

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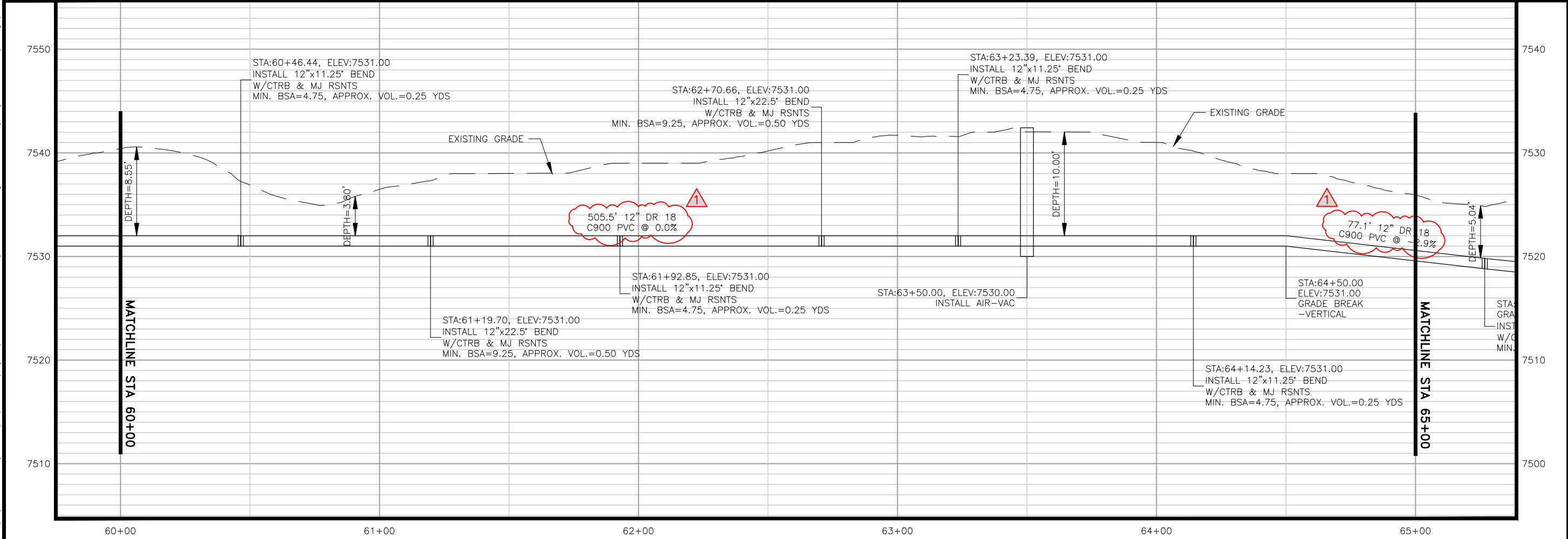
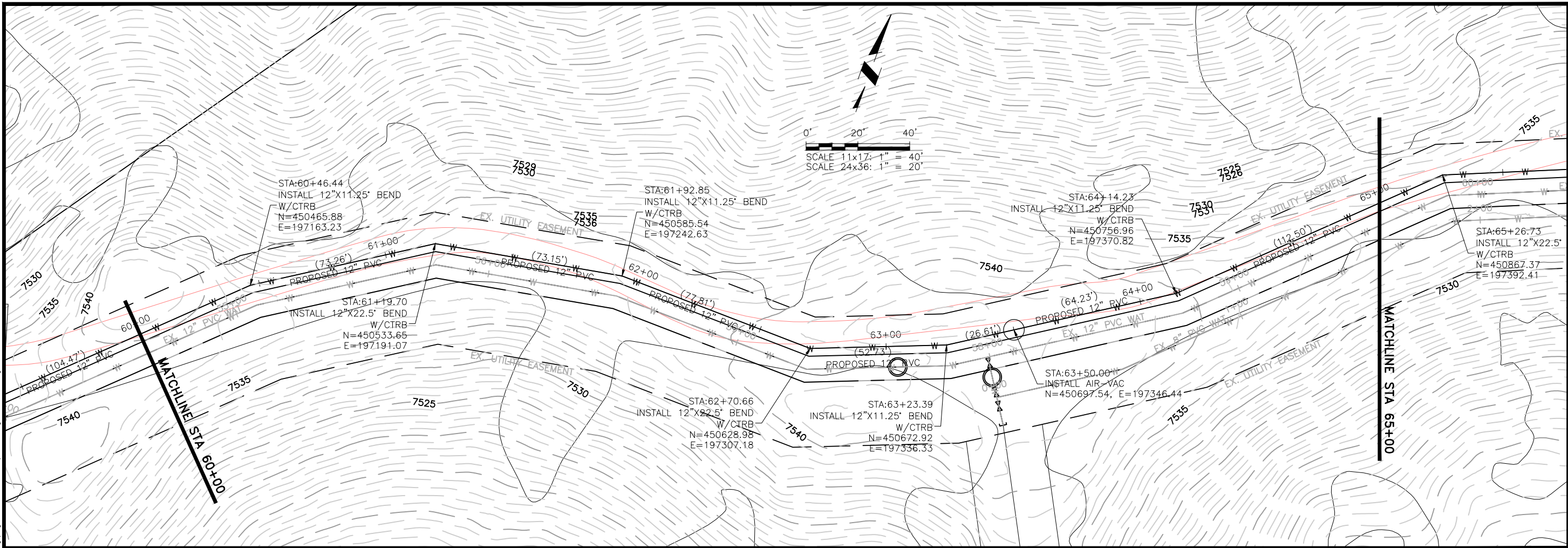
**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT B2 - PLAN AND PROFILE  
 STATION 55+00 TO 60+00

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JLB		10/05/22
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**70% DESIGN**

Project No.: 224.29  
 Date: 09/07/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

2022/10/07 8:10 AM By: Alexis (Lex) Yoder N:\Projects\224 Triview Metro District\22429 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B - Internal\22429\_Seg\_B\_Internal.dwg



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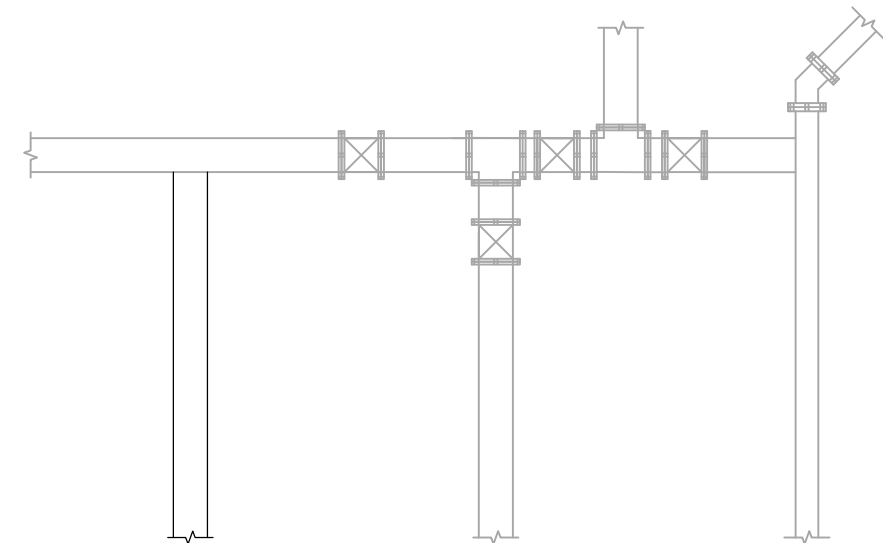
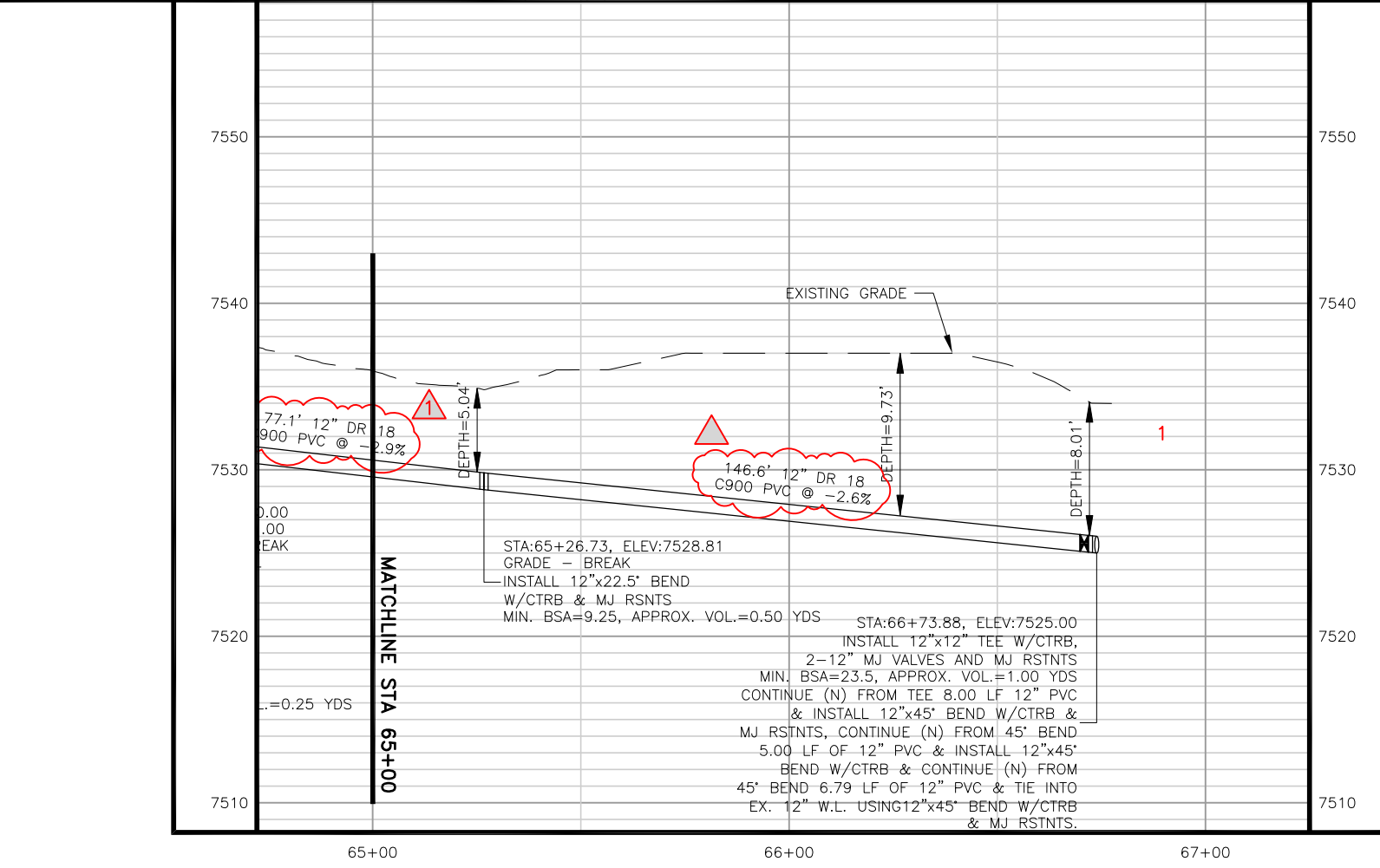
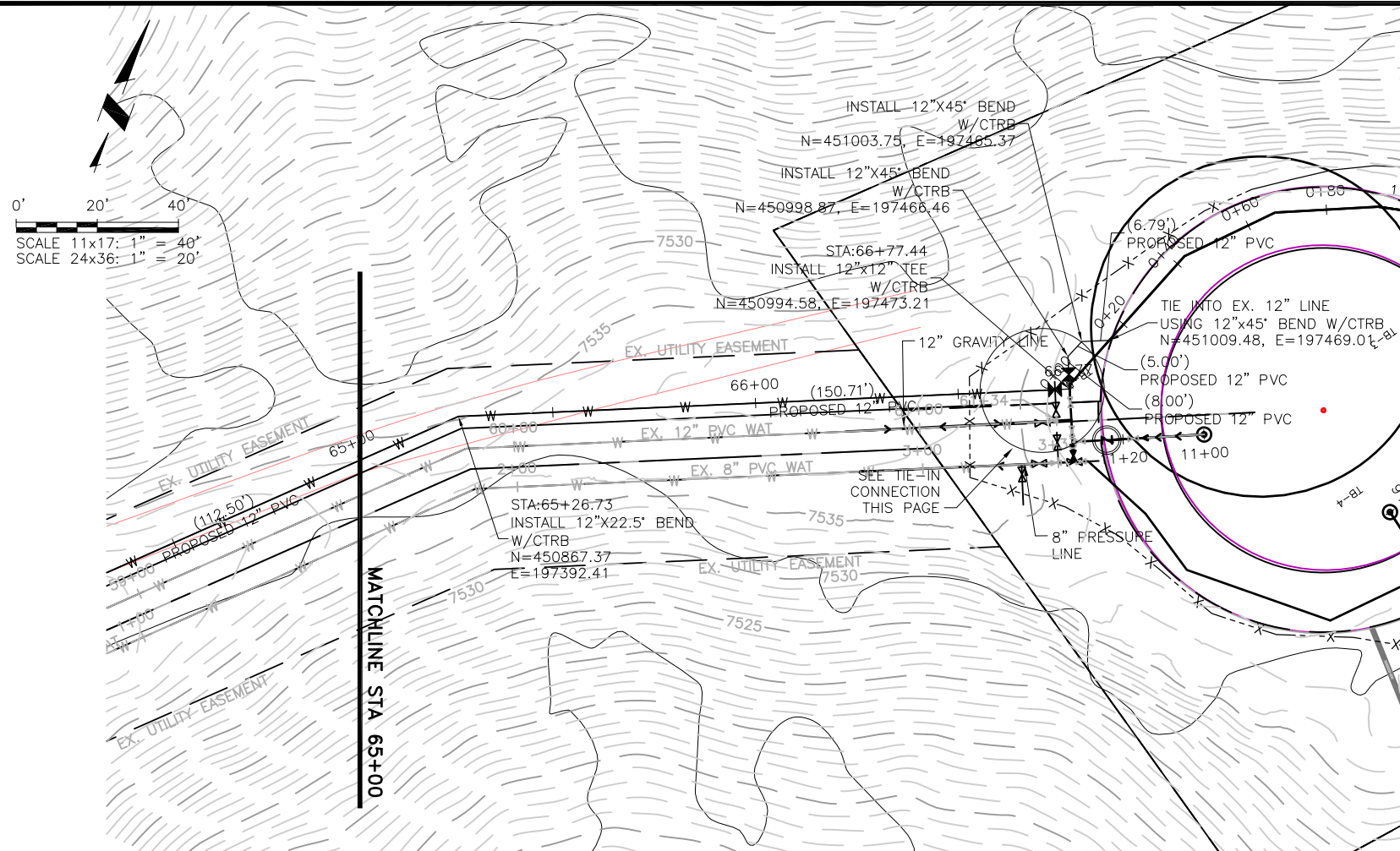
**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT B2 - PLAN AND PROFILE  
 STATION 60+00 TO 65+00

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JLB		10/05/22
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**70% DESIGN**

Project No.: 224.29  
 Date: 09/07/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

2022/10/14 2:35 PM By: Jeffrey Broj N:\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B - Internal\22429\_Seg\_B\_Internal.dwg



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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT B2 - PLAN AND PROFILE  
 STATION 65+00 TO 66+77

NO.	DESCRIPTION	BY	APP.	DATE
1	REVISION 1	JLB		10/05/22
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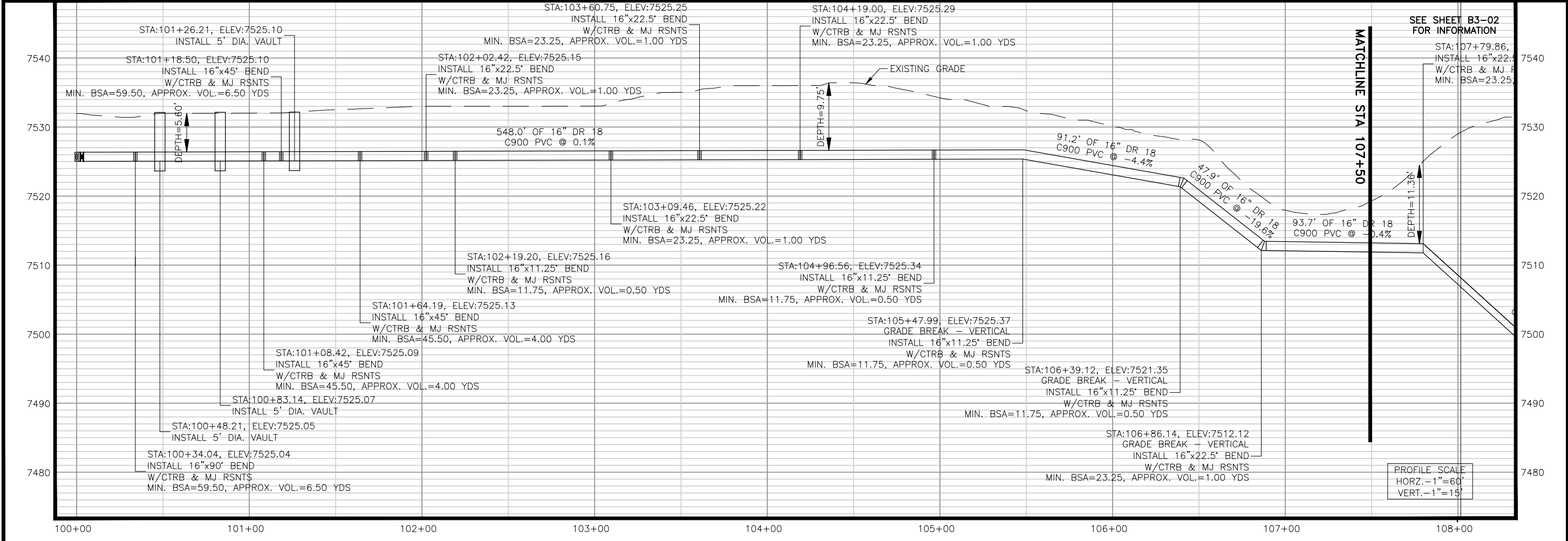
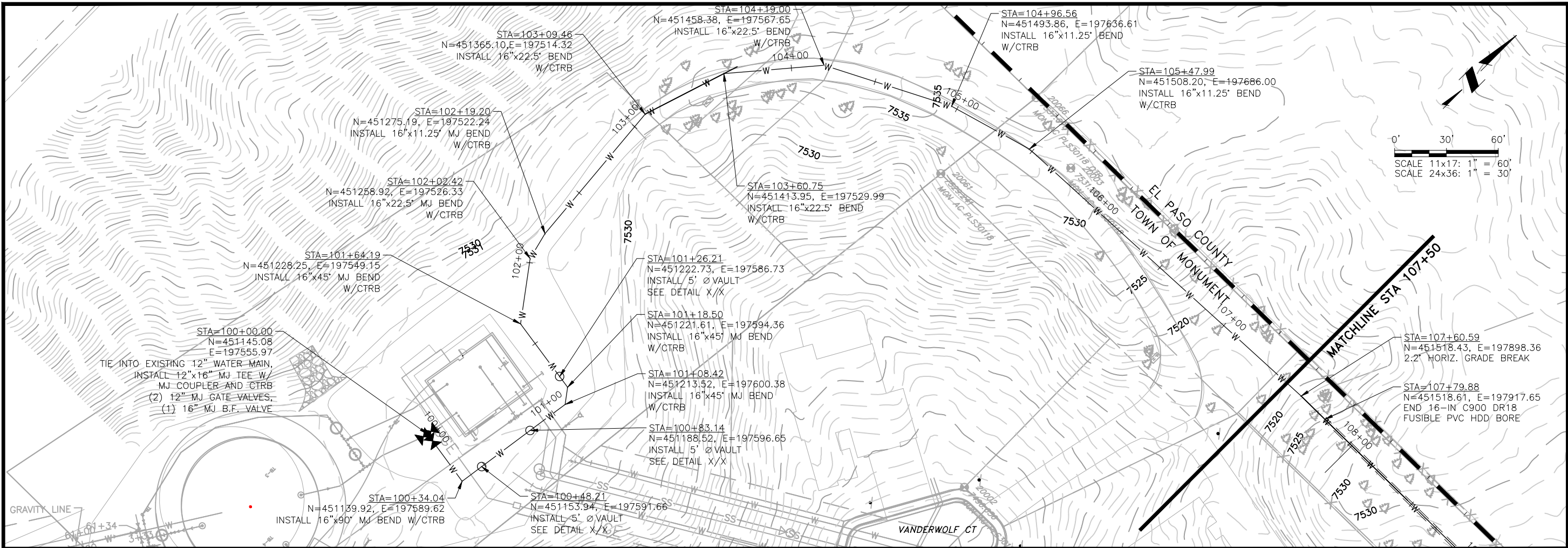
**70% DESIGN**

Project No.: 224.29  
 Date: 09/07/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**B2-4**  
 SHEET ---OF



2022/10/07 8:17 AM By: Alexis (Lex) Yoder NS\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B\22429\_Seg\_B\_North\_Civil.dwg



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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT B3 - PLAN AND PROFILE  
 STA. 100+00 TO 107+50

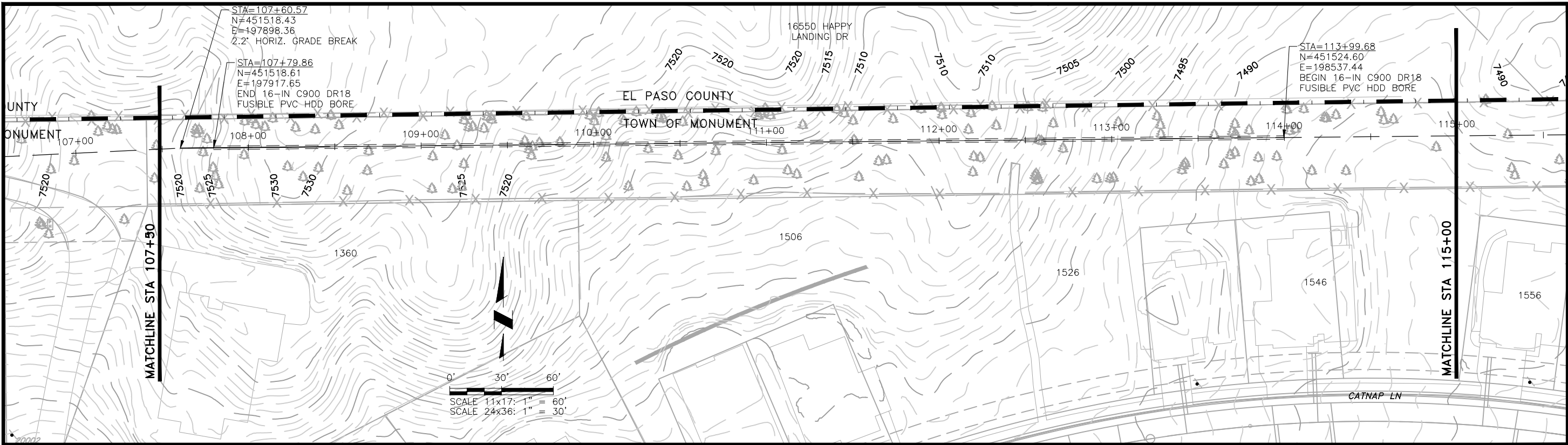
NO.	DESCRIPTION	BY	APP.	DATE
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**70% DESIGN**

Project No.: 22429  
 Date: 7/28/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**B3-01**  
 SHEET ---OF

2022/09/20 12:06 PM By: Alexis (Lexi) Yoder\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B\22429\_Seg\_B\_North\_Civil.dwg



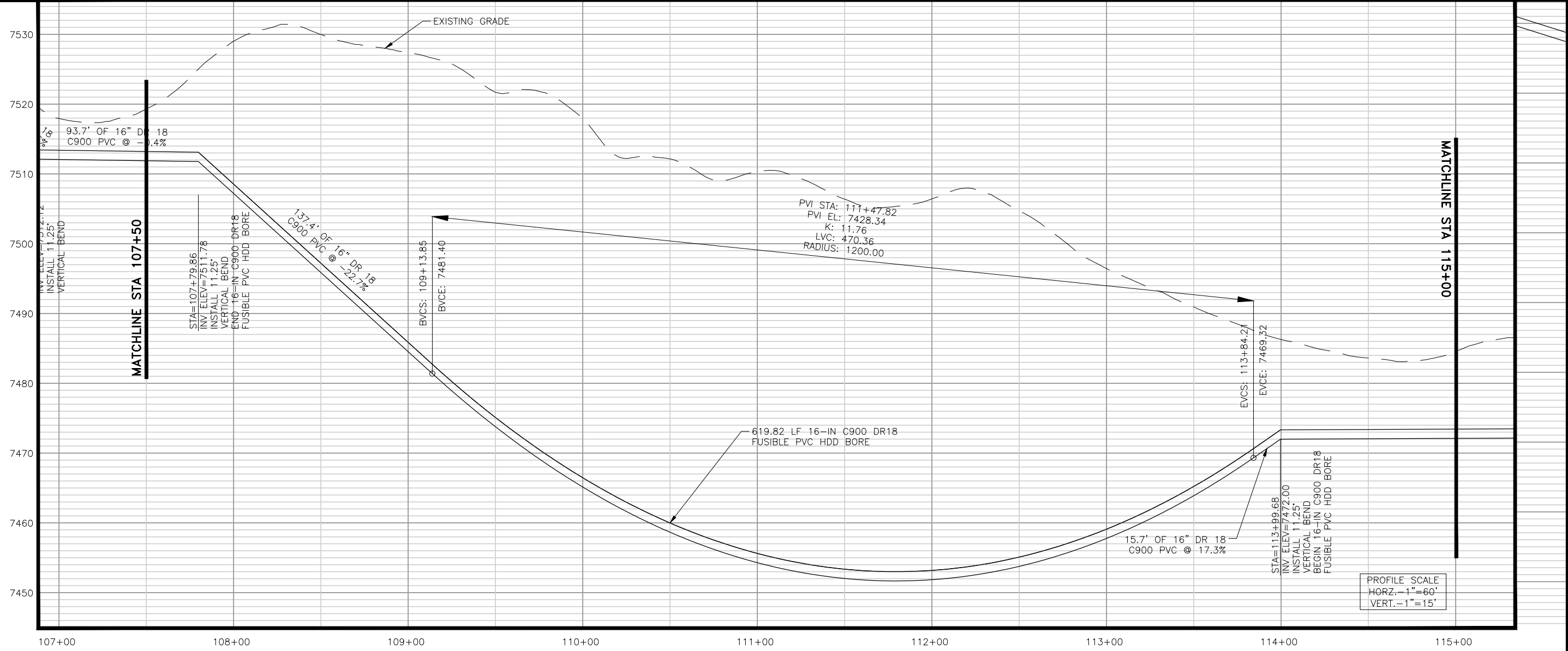
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N=451518.43  
E=197898.36  
2.2' HORIZ. GRADE BREAK

STA=107+79.86  
N=451518.61  
E=197917.65  
END 16-IN C900 DR18  
FUSIBLE PVC HDD BORE

STA=113+99.68  
N=451524.60  
E=198537.44  
BEGIN 16-IN C900 DR18  
FUSIBLE PVC HDD BORE

0' 30' 60'  
SCALE 11x17: 1" = 60'  
SCALE 24x36: 1" = 30'

EXISTING GRADE



PVI STA: 111+47.82  
PVI EL: 7428.34  
K: 11.76  
LVC: 470.36  
RADIUS: 1200.00

STA=107+79.86  
INV. ELEV.=7511.78  
INSTALL 11.25'  
VERTICAL BEND  
END 16-IN C900 DR18  
FUSIBLE PVC HDD BORE

STA=113+99.68  
INV. ELEV.=7472.00  
INSTALL 11.25'  
VERTICAL BEND  
BEGIN 16-IN C900 DR18  
FUSIBLE PVC HDD BORE

PROFILE SCALE  
HORZ. - 1"=60'  
VERT. - 1"=15'

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COLORADO SPRINGS, COLORADO 80919  
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**TRIVIEW METROPOLITAN DISTRICT**  
NORTHERN DELIVERY SYSTEM  
SEGMENT B3 - PLAN AND PROFILE  
STATION 107+50 TO 115+00

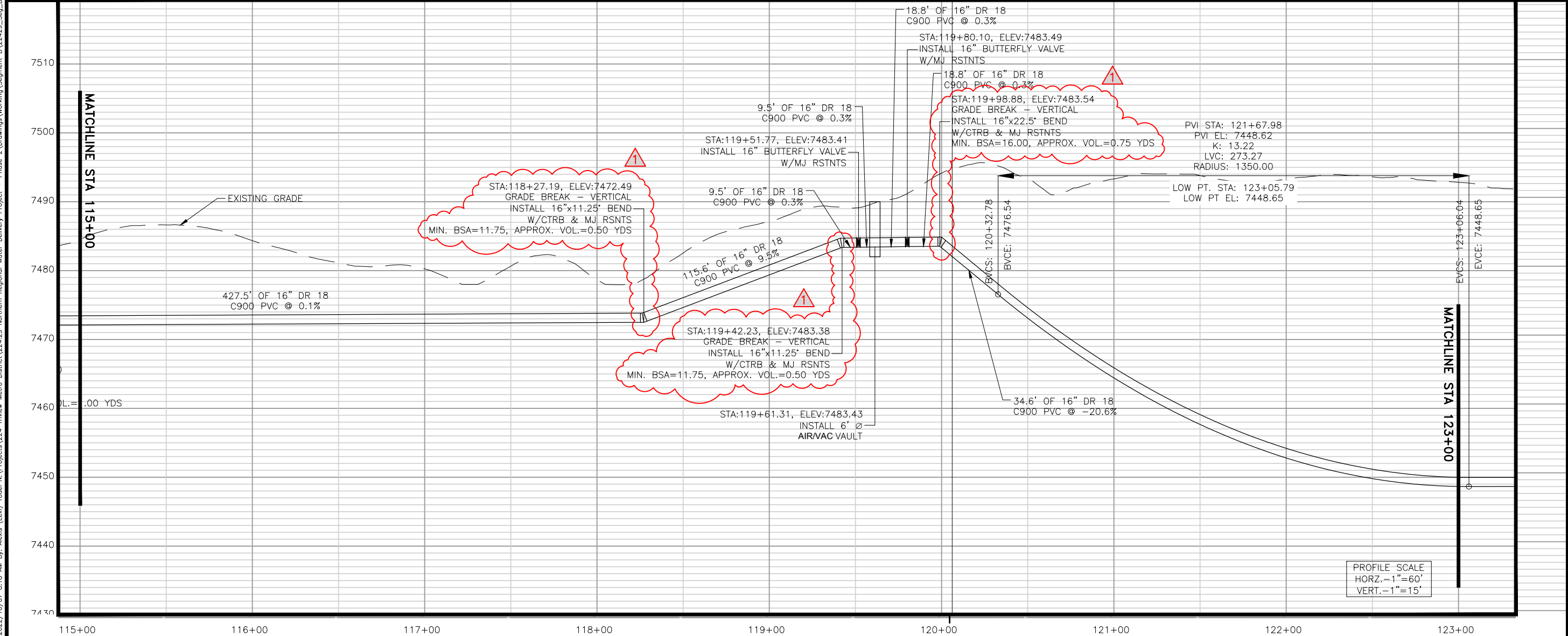
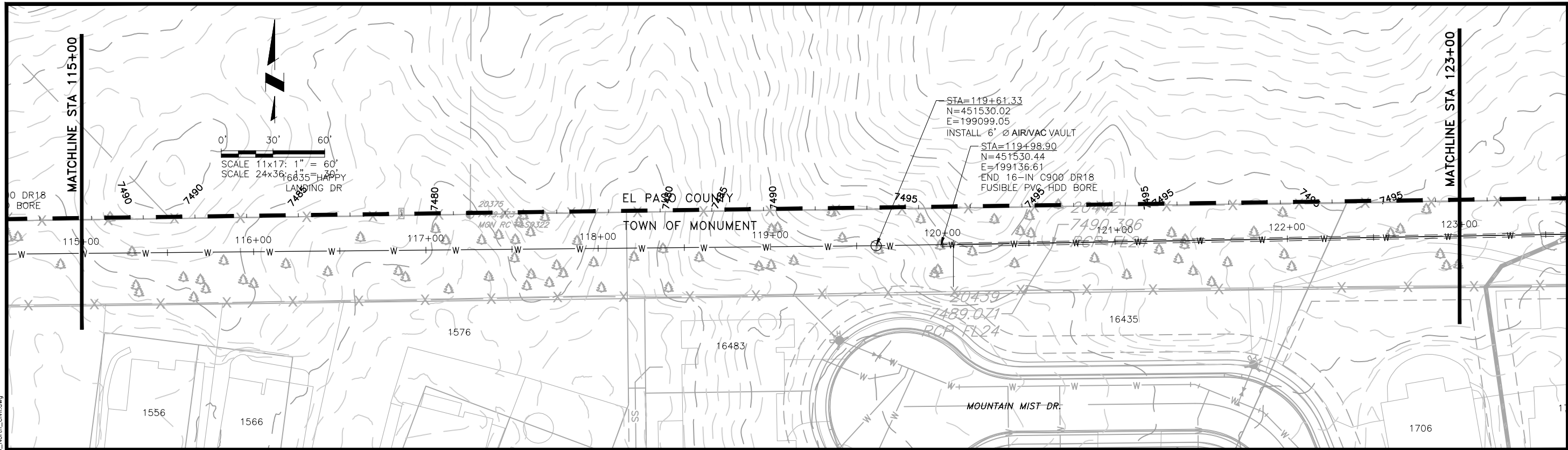
NO.	DESCRIPTION	BY	APP.	DATE
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**70% DESIGN**

Project No.: 22429  
Date: 7/28/22  
Design: MLD  
Drawn: SNW  
Check: MLD

**B3-02**  
SHEET --- OF ---

2022/10/07 8:18 AM By: Alexis (Lex) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B\22429\_Seg\_B\_North\_Civil.dwg



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**TRIVIEW METROPOLITAN DISTRICT**  
 NORTHERN DELIVERY SYSTEM  
 SEGMENT B3 - PLAN AND PROFILE  
 STATION 115+00 TO 123+00

NO.	REVISIONS		DATE
	DESCRIPTION	BY APP.	
1	REVISIONS 1	JLB	10/05/22
2			
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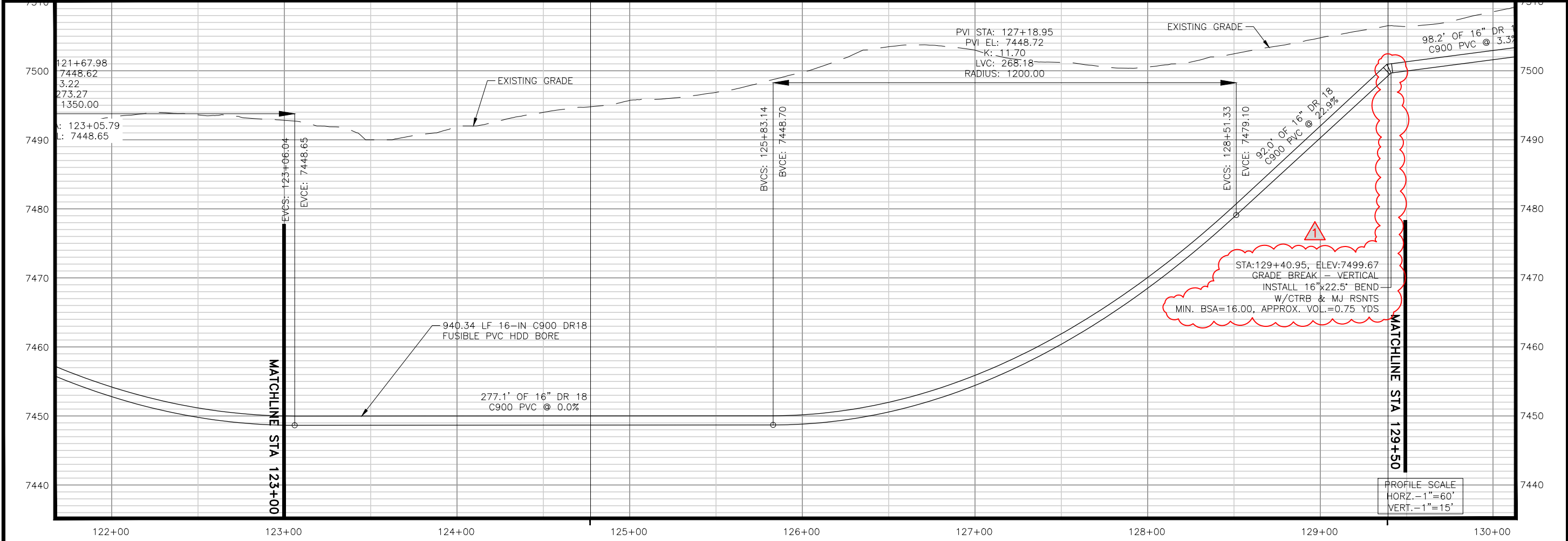
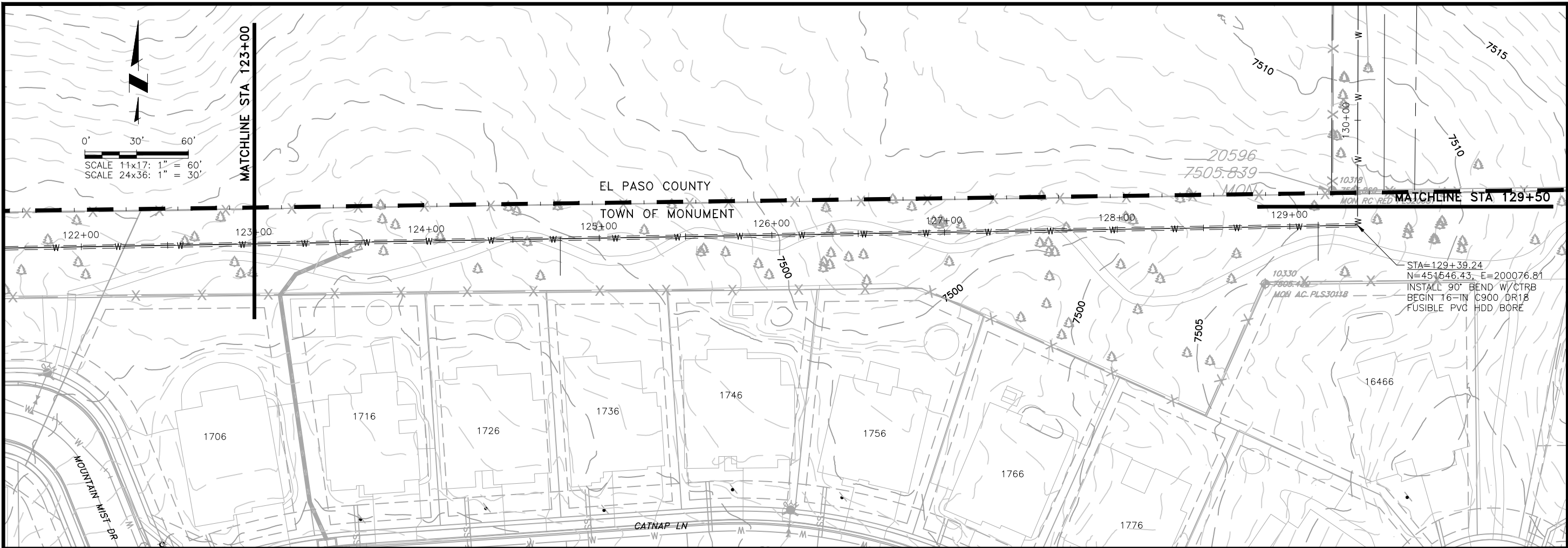
**70% DESIGN**

Project No.: 22429  
 Date: 7/28/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**B3-03**  
 SHEET ---OF---

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0' 30' 60'  
SCALE 11x17: 1" = 60'  
SCALE 24x36: 1" = 30'

MATCHLINE STA 123+00

MATCHLINE STA 129+50

MATCHLINE STA 123+00

MATCHLINE STA 129+50

PROFILE SCALE  
HORZ. - 1" = 60'  
VERT. - 1" = 15'

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**TRIVIEW METROPOLITAN DISTRICT**  
NORTHERN DELIVERY SYSTEM  
SEGMENT B3 - PLAN AND PROFILE  
STATION 123+00 TO 129+50

NO.	DESCRIPTION	REVISIONS		DATE
		BY	APP.	
1	REVISIONS 1	JLB		10/05/22
2				
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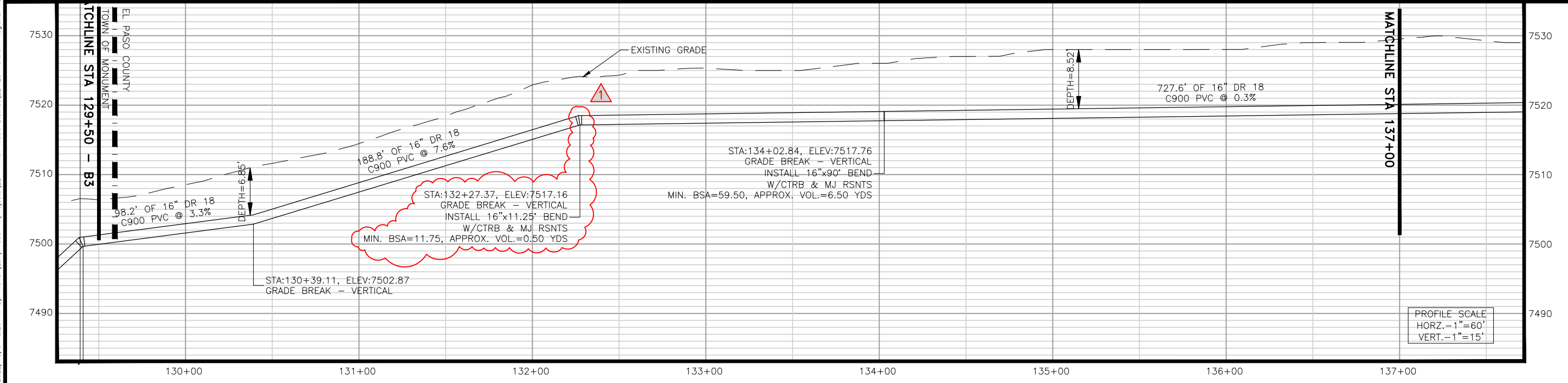
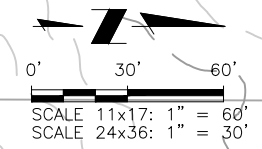
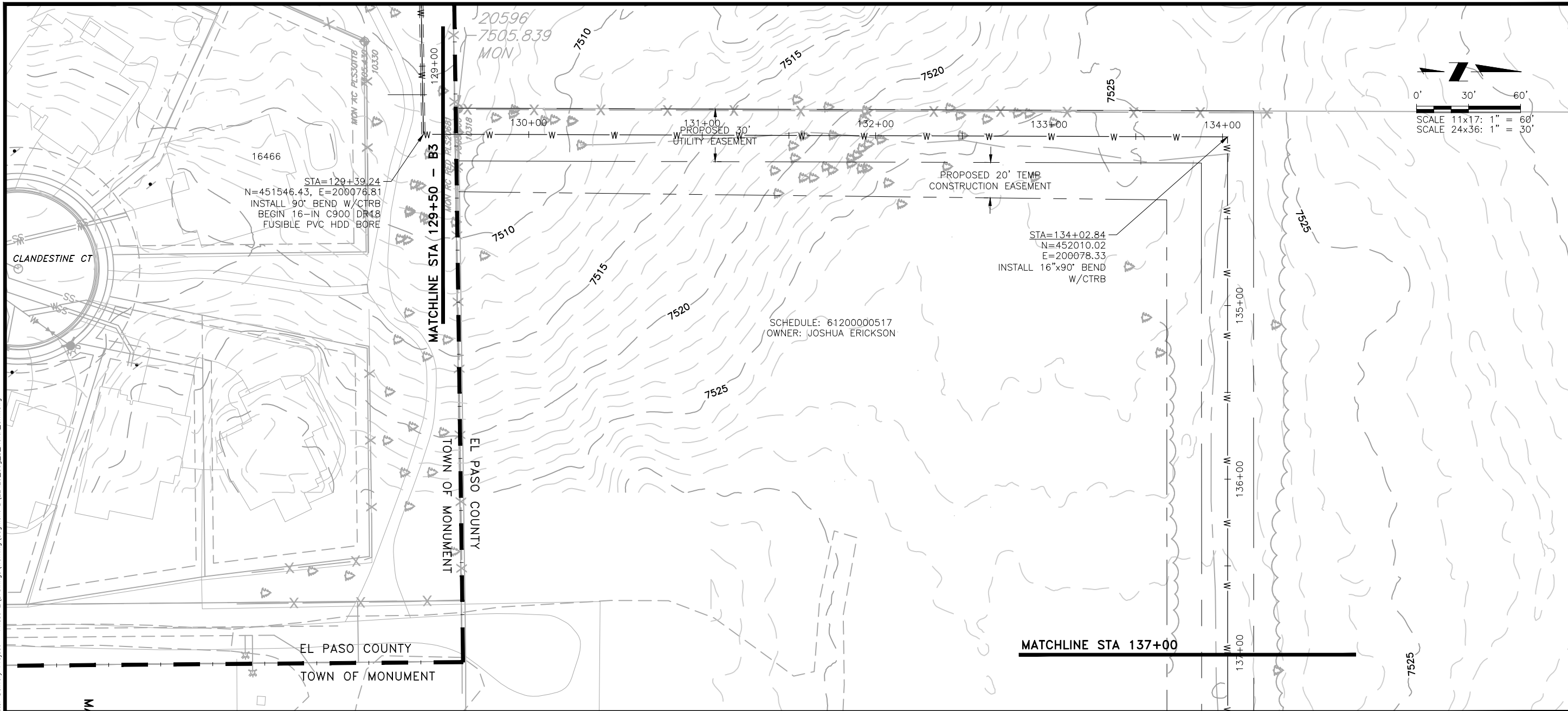
**70% DESIGN**

Project No.: 22429  
Date: 7/28/22  
Design: MLD  
Drawn: SNW  
Check: MLD

**B3-04**  
SHEET --- OF ---

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**TRIVIEW METROPOLITAN DISTRICT**  
**NORTHERN DELIVERY SYSTEM**  
**SEGMENT B4 - PLAN AND PROFILE**  
**STATION 129+50 TO 137+00**

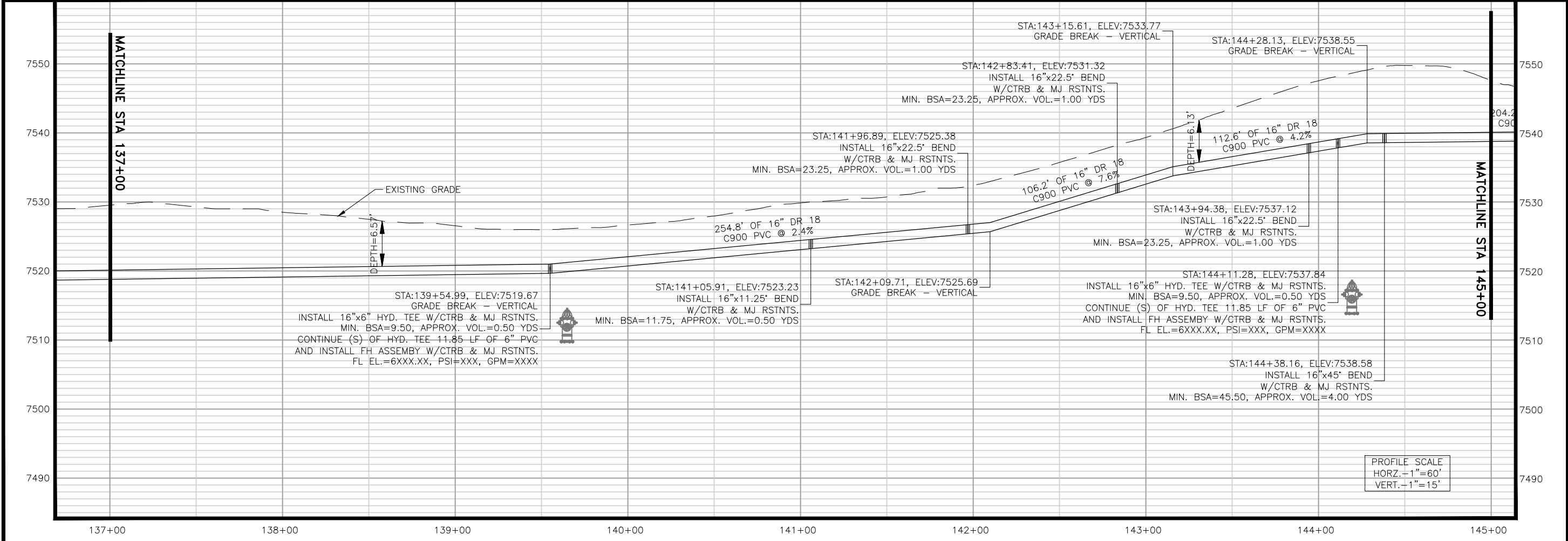
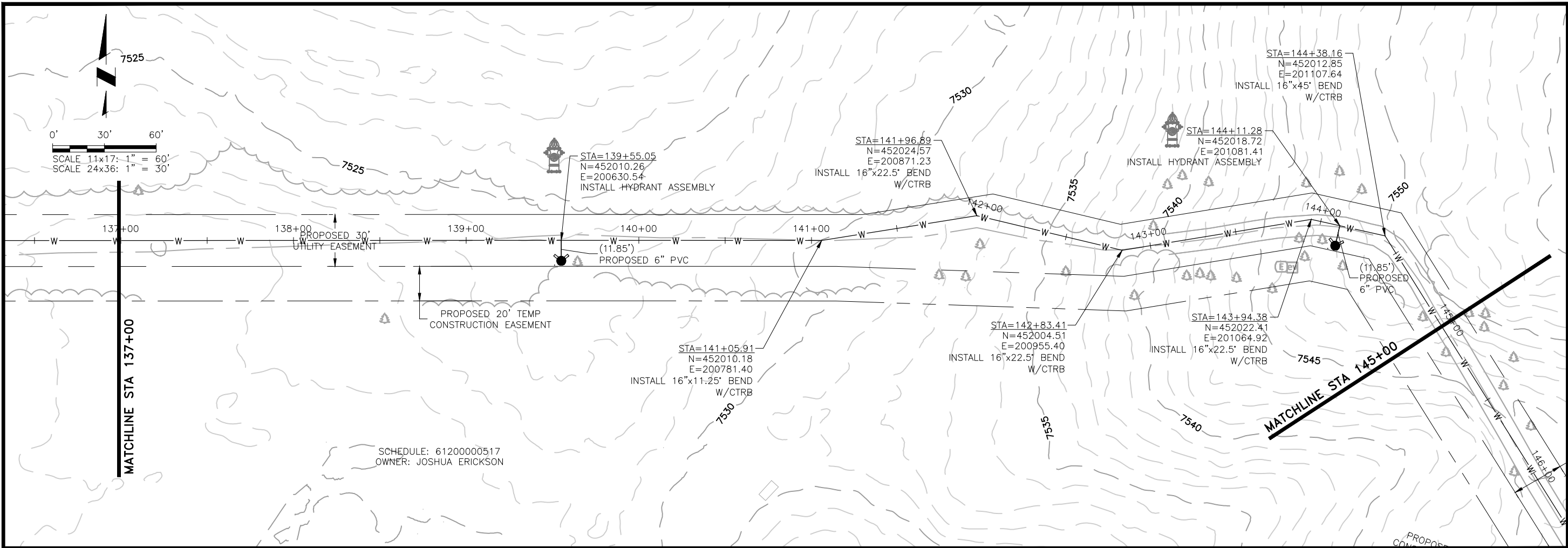
NO.	DESCRIPTION	BY	APP.	DATE
1	REVISIONS 1	JLB		10/05/22
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**70% DESIGN**

Project No.: 22429  
 Date: 7/28/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**B4-01**  
 SHEET ---OF---

2022/10/07 8:20 AM By: Alexis (Lex) Yoder NA\Projects\224 Triview Metro District\224.29 Northern Regional Water Delivery Project - Phase 2\Drawings\Working\Segment B\22429\_Seg\_B\_North\_Civil.dwg



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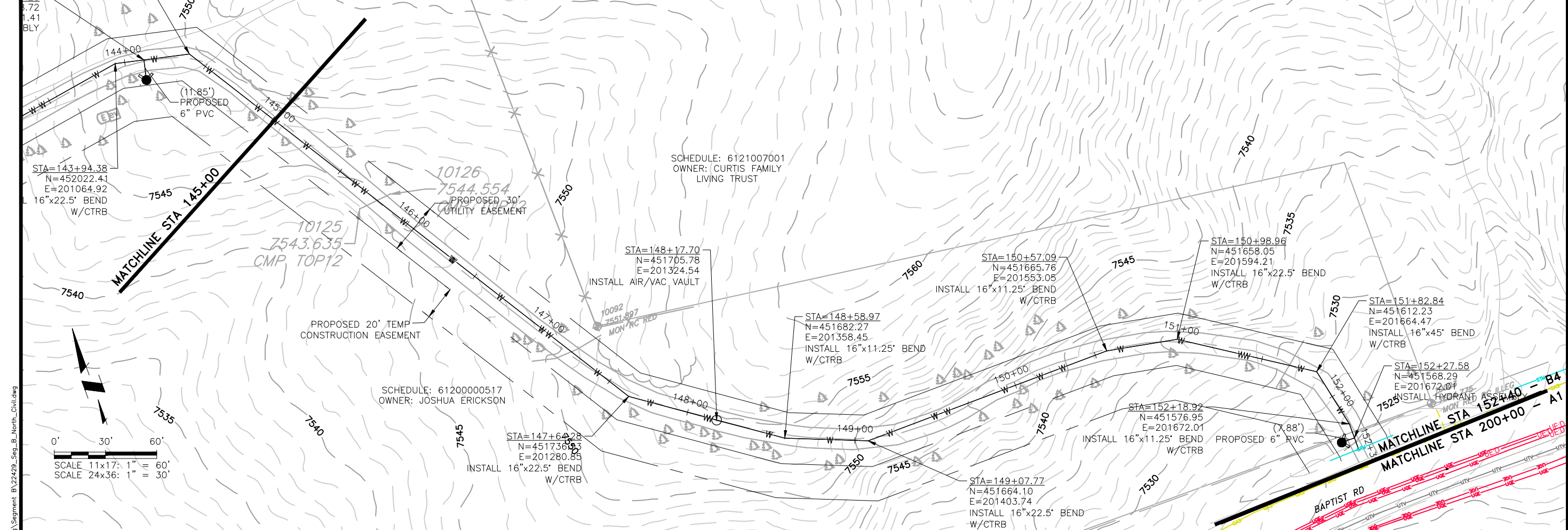
**TRIVIEW METROPOLITAN DISTRICT**  
NORTHERN DELIVERY SYSTEM  
SEGMENT B4 - PLAN AND PROFILE  
STATION 137+00 TO 145+00

NO.	DESCRIPTION	BY	APP.	DATE
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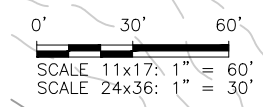
**70% DESIGN**

Project No.: 22429  
Date: 7/28/22  
Design: MLD  
Drawn: SNW  
Check: MLD

**B4-02**  
SHEET --- OF ---



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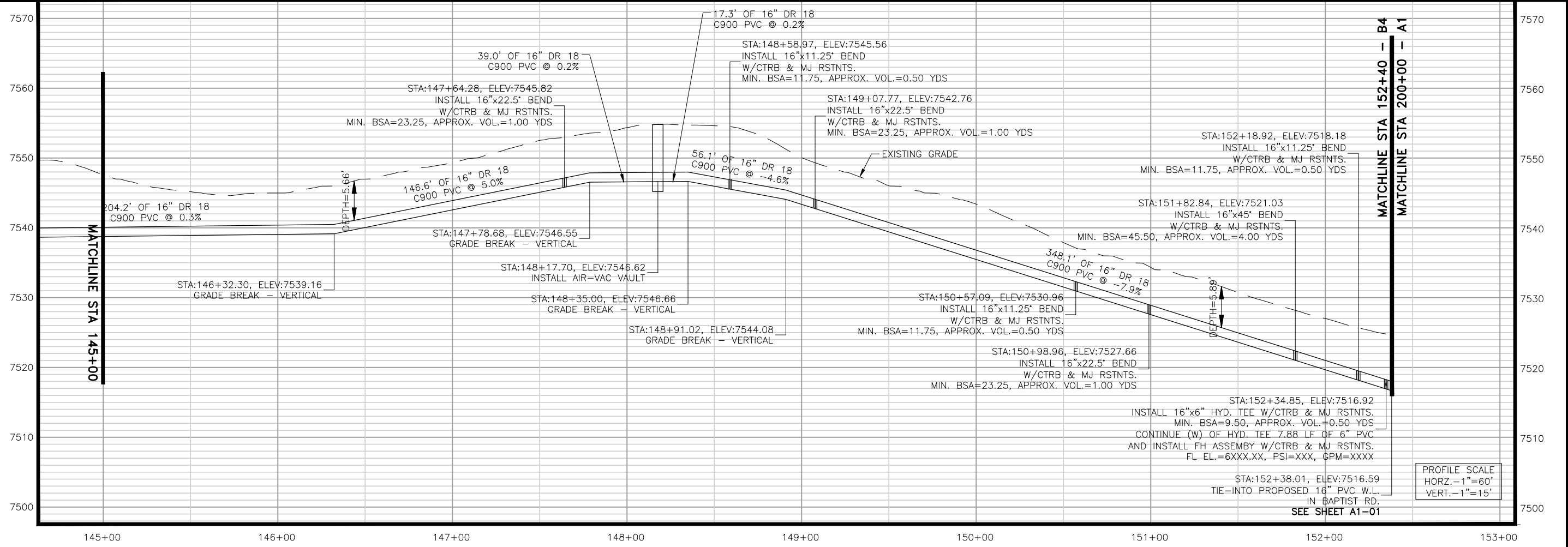


NO.	DESCRIPTION	BY	APP.	DATE
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**70% DESIGN**

Project No.: 22429  
 Date: 7/28/22  
 Design: MLD  
 Drawn: SNW  
 Check: MLD

**B4-03**  
 SHEET ---OF---



PROFILE SCALE  
 HORZ. - 1"=60'  
 VERT. - 1"=15'