Pipeline Alignment Study
24th Street WTP to 32nd Street and Bell Road

City of Phoenix, Water Services Department, Project No. WS85100047-2

Submitted by

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FINAL

PIPELINE ALIGNMENT STUDY
24TH STREET WTP TO 32ND STREET AND BELL ROAD

PROJECT NO. WS85100047-2

Prepared for
CITY OF PHOENIX, ARIZONA
MAY 2018

[redacted]

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ARIZONA, U.S.A.

EXPIRES 3/31/21

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List of Abbreviations

ADOT	Arizona Department of Transportation
CAP	Central Arizona Project
EB	East Bound
PCCP	Pre-Stressed Concrete Cylinder Pipe
PEC	Project Engineering Consultants, Ltd.
PMP	Phoenix Mountains Preserve

PU	Public Utilities
RCP	Reinforced Concrete Pipe
SUE	Subsurface Utility Exploration
WB	West Bound
WTP	Water Treatment Plant

1 Introduction and Background

The City of Phoenix (City) is proactively seeking to supplement its water supply in the north parts of the City to prevent a possible shortfall in CAP water delivered to the Union Hills and Lake Pleasant Water Treatment Plants (WTPs). Continued population growth and demand for potable water coupled with an ongoing drought increases the possibility of water restrictions. It is projected that any such restrictions would result in a supply shortfall for the north WTPs. The City intends to supplement the supply through installation of a 60 MGD booster pump station (BPS) that pulls water from the Salt River Project (SRP) supplied Arizona Canal and pumps it through a proposed 60-inch water transmission main to a connection point at 32nd Street and Bell Road. This project includes a study to determine the most suitable alignment for the proposed transmission main.

2 Purpose

The purpose of this study is to identify and recommend a feasible and preferred alignment for the proposed 60-inch pipeline. The line connects the 24th Street WTP with its delivery point located at 32nd Street and Bell Road, see **Figure 1**.

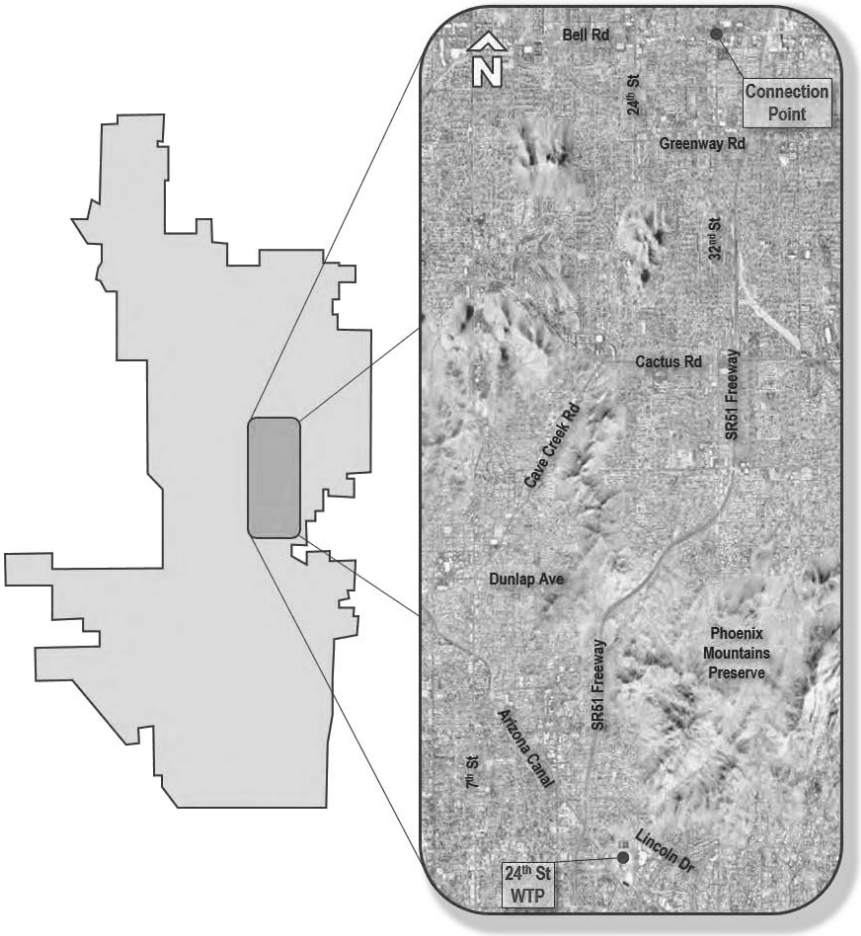


Figure 1 Vicinity Map

3 Project Scope

The scope of this alignment study includes the following:

- Identify, evaluate and recommend alignment alternatives for the proposed 60-inch diameter water transmission main
- Develop a planning-level opinion of probable construction costs for each alternative
- Analyze each potential alignment with respect to the following items:
    - Construction costs
    - Pipe material and method of construction
    - Impacts to traffic
    - Right-of-way impacts and easement needs
    - Existing utility impacts and relocations
    - Geotechnical considerations
    - Depth of bury
    - Adjacent land use
    - Perceived risks
    - Constructability
- Aerial Mapping (2 phases – study and design)
- Develop 30% plans and estimate of probable construction costs for the selected alignment

Originally the City recommended a 48-inch pipe which provided the basis for the alignment study. After additional system modeling, the City requested that the proposed pipe size be increased to 60-inch diameter. With the pipe size modified, PEC updated the study and associated cost estimates and figures to accommodate the larger pipe diameter. Clearance distances to the proposed pipe were back checked to capture any additional utility or other feature impacts because of the pipe size increase.

Aerial Mapping was completed for the first phase of the project to assist with identification and evaluation of feasible alignment alternatives. The second phase of the study included design-grade Aerial Mapping, completed after City review and approval of the recommended alignment. For the recommended alignment, 30% design plans have been prepared and are included in Appendix E of this report.

Work associated with a proposed BPS located at the 24th Street WTP and a pressure reducing valve (PRV) station(s) is being performed by others under separate contract. PEC's scope requires coordination of these items only.

The City has indicated that the existing 48-inch pipeline from the 24th Street WTP to the north is in poor condition and may require rehabilitation or replacement in the near future. A rehabilitation analysis of the existing pipe is not included in the scope of this project.

4 Alignment Alternatives

There are several major constraints both physical and otherwise that affect the location of the proposed waterline. These constraints, as included below and as shown in Figure 1, greatly reduce the number of potential alignments.

- Rocky and mountainous terrain in and around the Phoenix Mountains Preserve (PMP)
- Numerous existing utilities in roadways
- State Route 51 (SR51) freeway
- Arizona Canal
- City boundary to the east of the WTP
- Right-of-way and easement needs
- Impacts to adjacent properties, both residential and commercial
- Traffic disruption during construction

Investigating a route around the east side of the Phoenix Mountains Preserve (PMP) would be cost prohibitive due primarily to the additional pipe footage it would add to the project. It would also require extensive coordination with the Town of Paradise Valley as portions of the pipe would be in the town's right-of-way. The only feasible corridor alternatives include the following:

- Extend the new pipe north from the WTP through the PMP parallel to the existing SR51, across SR51 and up 32nd Street to the connection point; and
- Extension of the pipe north from the WTP then to the west across SR51 and utilizing the Cave Creek Road corridor to Sweetwater Avenue, east to 32nd Street and north to Bell Road to the connection point.

These two potential corridors were identified based on existing constraints, aerial topographic information and local knowledge of conditions. Each of the corridors has one primary alignment and two optional deviations as shown in **Figure 2**. The two alignments deviate from each other after they leave the WTP at the intersection of 20th Street and Glenn Drive and then re-converge along 32nd Street, depending on the alignment and deviation selected.

Alignment 1 utilizes Cave Creek Road to skirt the west side of the mountainous area west of SR51. To accomplish this, the alignment crosses SR51 at Myrtle Avenue heading west and generally follows existing utility corridors in residential streets while zig-zagging to the north and west to avoid crossing the Arizona Canal, eventually turning north at 12th Street and continuing to Cave Creek Road. The alignment continues northeast along Cave Creek Road. At Sweetwater Avenue, the alignment turns east continuing to 32nd Street where it turns north and continues until intersecting with the project terminus at Bell Road.

Alignments 1A and 1B utilize Cactus Road and Bell Road respectively for the east-west connection to 32nd Street. Available traffic data suggests that Bell Road and Cactus Road are the most heavily traveled corridors within the alignments investigated with east-west traffic volumes higher than 20,000 vehicles per day (vpd). Much of this traffic is experienced during peak flow rush hours in the morning and afternoon.

Alignment 2 utilizes the same corridor between the mountainous areas that SR51 uses. To accomplish this, instead of turning west at Myrtle Avenue, the alignment continues north along 22nd Street through the residential area. Once the alignment reaches the end of 22nd Street and enters the PMP area, the conflicts with existing utilities, the traveling public and adjacent land owners is greatly reduced or eliminated. There will be conflicts with park users and potential environmental and geotechnical impacts. Past experience with the users of the Piestewa Peak trails indicate that the users are a very passionate group who will likely oppose the proposed waterline alignment. Once in the preserve, there is no easy way to install the proposed pipe from this location back to the east side of SR51 due to the terrain. This alignment will require boring under a portion of the mountainous areas of the park as shown and discussed in later figures and text. It is understood that much of this alignment will be in rock and increases the difficulty of the installation. The benefit of this alignment is that it will utilize the open area contained within the PMP. The proposed alignment parallels SR 51 until 26th Street where it crosses SR51 and heads northeast along Northern Avenue until intersecting with 32nd Street and continuing north on 32nd Street to the project terminus at Bell Road, similar to Alignment 1.

The existing 48-inch pipe shown in **Figure 2** was identified and mapped with the intent to investigate the possibility of installing the new pipeline parallel to the existing line. However, the existing pipe pre-dates the SR51 construction and as such crosses SR51 in three separate locations making this optional pipe alignment less desirable. However, it will be necessary to parallel the existing line through the existing easement along the west side of Madison Heights Elementary School between Glenn Drive and Myrtle Avenue.

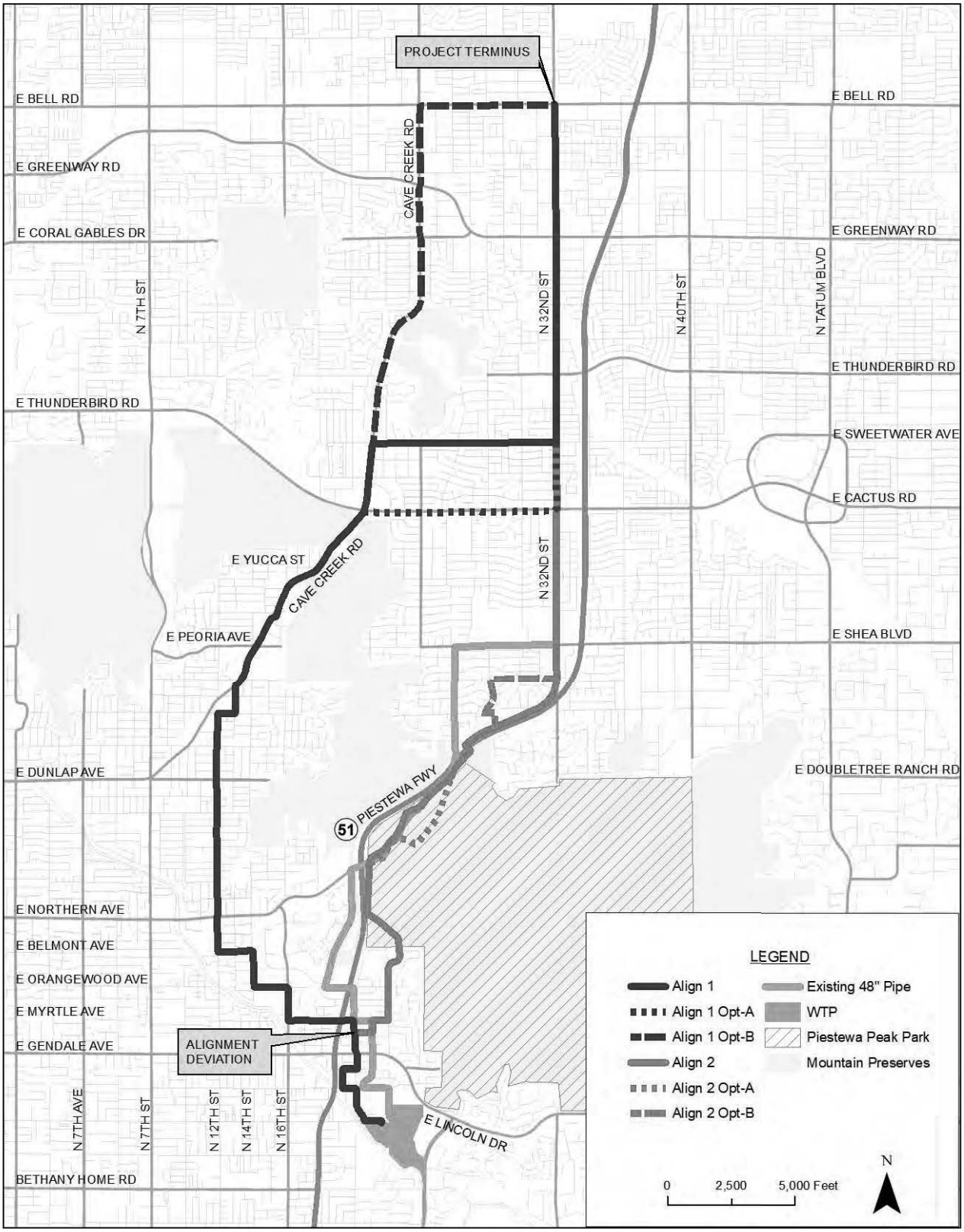


Figure 2 Alignment Alternatives

4.1 Alignment 1

Alignment 1 is located in existing streets and roadways for the entire length of the alignment. There are several other utilities along the alignment including existing potable water transmission and distribution piping, wastewater piping, wastewater structures, storm drain system piping and structures, dry utilities such as gas, communication, electric, etc., for the entire length of the alignment. **Figure 2** shows Alignment 1 with the Option A and Option B deviations. The proposed alignment begins at the 24th Street WTP and terminates at the connection point at 32nd Street and Bell Road. This alignment is shown in detail in Appendix A where much of the alignment was mapped and is shown in relation to other utilities in the same corridors. Once the alignment crosses SR51 on Myrtle Avenue, it turns north on 16th Street, west on Orangewood Avenue, north on 14th Street, west on Belmont Avenue and north on 12th Street. This alignment zig-zagging through primarily residential neighborhoods is necessary to avoid crossing beneath the Arizona Canal in multiple locations. The alignment continues north on 12th Street until it intersects with Cave Creek Road.

There are several locations along the alignment where rock is anticipated. Construction equipment will be selected by the contractor based on soil characteristics and the horizontal and vertical location of the waterline. Blasting may be required in some areas. Anticipated rock areas include portions of 20th Street and 22nd Street in the foothills of Piestewa Peak, 12th Street near North Mountain, Cave Creek Road near North Mountain and Sweetwater Avenue near 24th Street.

Additional mapping of the dry utilities such as power, communication and gas is provided in areas that are estimated to require additional excavation due to the method of installation (jack and bore, open cut, etc.) as seen at the SR51 crossing at Myrtle Avenue and several other possible intersections. There are multiple locations where existing utilities become congested, especially where utility lines are intersecting and have multiple alignments. It may be more cost effective to bore under heavily congested intersections than to open cut the section. Trenchless pipe installation will also reduce traffic impacts at these locations. Final decisions at these locations will be made during the design of the waterline.

Based on utility mapping and information provided by third party utilities and the City of Phoenix, the maps shown in Appendix A were utilized to estimate the number of critical impacts to the installation of the proposed 60-inch waterline. In addition, traffic counts were obtained from City of Phoenix Street Transportation Department to estimate the impacts to traffic along the various corridors studied.

Figure 3 maps the proposed Alignment 1 and its two options and shows its relation to major utility conflicts requiring adjustment of the existing utility or waterline profile alignment, right-of-way impacts and traffic data. The minimum depth of cover for the proposed 60-inch water

line is 6.5-feet below finished grade. It is desirable that a somewhat consistent depth of cover be maintained where possible and only deviate where the ground surface changes abruptly or other critical utilities force changes to the grade of the pipe. For this analysis, it was assumed that the proposed pipe would be installed with an average of 8-feet of cover in all locations except for boring locations to identify and estimate grade deviations or realignments of existing utilities due to anticipated conflicts.

Based on the data shown in **Figure 3** there is approximately 54 locations where it is anticipated that the proposed water line conflicts with an existing utility requiring deviations in grade of the proposed water line or realignment of the existing utility. It is assumed that crossing waterlines smaller than 60-inch will be vertically realigned to avoid deviation in the 60-inch profile. However, during design, the cost of vertical realignment of an existing utility versus adjustment in grade (deeper trench for clearance) of the proposed waterline should be evaluated for cost effectiveness. Where the 60-inch waterline crosses an existing gravity main (wastewater or storm drain piping) and either the City data indicates that there is a conflict based on invert elevation or there was no data available, a conflict was assumed.

Based on the available City and County right-of-way information there is one location along Cave Creek Road that will require property acquisition or a permanent easement. Two parcels are affected and are discussed in Section 5.3.

Figure 3 also depicts the traffic count locations and values for comparison and consideration for estimating impacts to the traveling public. This data is summarized in Section 5.2.2.

4.1.1 Alignment 1 Option A (Alignment 1A)

Alignment 1A deviates from Alignment 1 at the intersection of Cave Creek Road and Cactus Road. Alignment 1A utilizes Cactus Road to connect between Cave Creek Road and 32nd Street instead of Sweetwater Road.

4.1.2 Alignment 1 Option B (Alignment 1B)

Alignment 1B deviated from Alignment 1 at the intersection of Cave Creek Road and Sweetwater Avenue. Alignment 1B continues north on Cave Creek Road until it intersects with Bell Road, and then turns east to the connection point at 32nd Street.

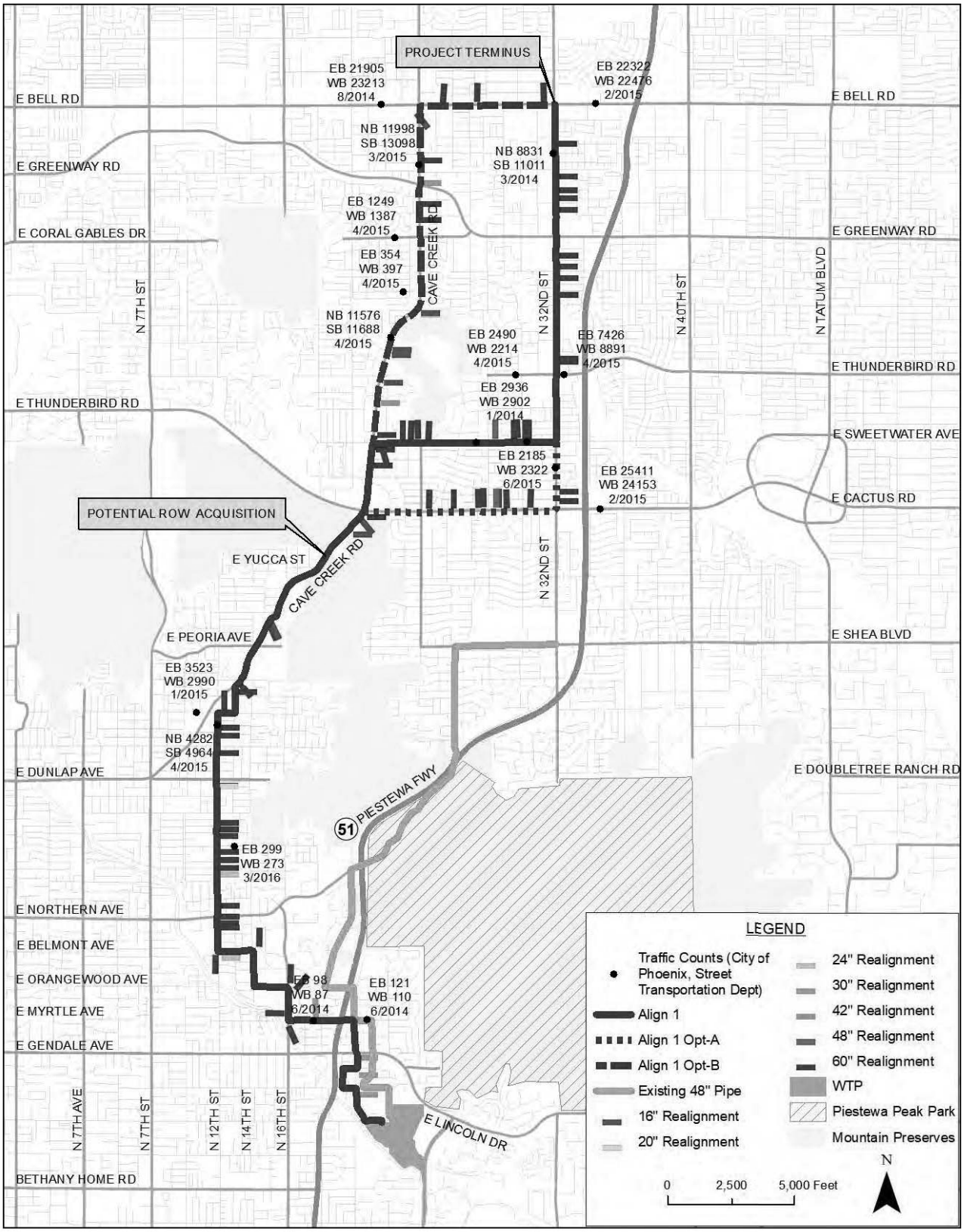


Figure 3 Alignment 1 Critical Impacts

4.2 Alignment 2

Alignment 2 utilizes a portion of the same alignment as Alignment 1, namely, the beginning section near the 24th Street WTP and the section along 32nd Street. Alignment 2 diverges from Alignment 1 at 20th Street and Glenn Drive. At this location, Alignment 2 turns east onto Glenn Drive and utilizes the open land and the existing waterline easement for the existing 48-inch waterline along the west side of Madison Heights Elementary School property to connect to Myrtle Avenue and then continues north along 22nd Street and into the PMP. The alignment continues north a short distance and then turns northwest requiring an approximate 900 foot bore through a small mountain and continuing until it comes to the east side of SR51 at which point the alignment turns north and stays generally parallel to SR51, eventually crossing SR51 at 26th Street. After crossing SR51, the pipeline turns north along Northern Avenue until it intersects with 32nd Street, and continues north to Bell Road.

There are several locations along the alignment where rock is anticipated. Construction equipment will be selected by the contractor based on the soil characteristics and the horizontal and vertical location of the proposed waterline. Blasting may be required in some areas. Anticipated rock areas include portions of 22nd Street in the foothills of Piestewa Peak, all of PMP and 26th Street near SR51.

Detailed maps of congested utility areas and jack and bore locations of Alignment 2 are in Appendix B. Much like Alignment 1, it may be more cost effective to bore under heavily congested intersections like Cactus Road, Thunderbird Road, and Greenway Road. This will reduce traffic impacts to the critical east-west corridors.

Based on utility mapping and information provided by third party utilities and the City of Phoenix, the maps shown in Appendix B were utilized to estimate the number of critical impacts to the installation of the proposed 60-inch waterline. In addition, traffic counts were obtained from City of Phoenix Street Transportation Department to estimate the impacts to traffic along the various corridors studied.

Figure 4 maps the proposed Alignment 2 and its two options and shows its relation to major utility conflicts requiring adjustment of the existing utility or waterline profile alignment, right-of-way impacts and traffic data. Like Alignment 1, and average depth of cover of 8-feet was assumed in all locations except for borings to estimate grade deviations or realignments of existing utilities due to anticipated conflicts. There are an estimated 34 locations where it is anticipated that the proposed water line conflicts with an existing utility requiring deviations in grade of the proposed water line or realignment of the existing utility. The same criteria used for Alignment 1 were used for this proposed alignment.

Based on the available right-of-way information, there are locations where the proposed waterline crosses through ADOT right-of-way near the PMP. New easements will be required at

these locations as discussed in Section 5.3. Two potential cultural sites are located in the PMP. These sites are discussed in greater detail in Section 5.4. In addition to these impacts, there are several trails that will be impacted where the pipe crosses the trail and is installed via open trench methods. This is discussed in greater detail in Section 5.4.

Figure 4 also depicts the traffic count locations and values for comparison and consideration for estimating impacts to the traveling public.

4.2.1 Alignment 2 Option A (Alignment 2A)

Alignment 2 – Option A turns the alignment east parallel to the existing Dreamy Draw Bikeway prior to the new pipeline crossing the existing 48-inch pipeline at Dreamy Draw Drive. This eliminates the two waterlines crossing and eliminates the need to excavate near the existing dam by the Dreamy Draw Recreation Area. The Option A alignment would remain to the south of the existing 48-inch pipe until they diverge at the dam structure access road from the south. The Option A pipe alignment would continue along Dreamy Draw Drive past the recreation area and intersect with Alignment 2 near SR51. However, this alignment would impact the bikeway during construction.

4.2.2 Alignment 2 Option B (Alignment 2B)

Alignment 2 – Option B consists of a short route modification that removes a portion of the alignment along Northern Avenue starting at the Mercury Mine Elementary School and extending north along 28th Street to Cheryl Drive then east to 32nd Street then north to Bell Road. This would reduce impacts to businesses along Northern Avenue whose only access to their business is off Northern Avenue.

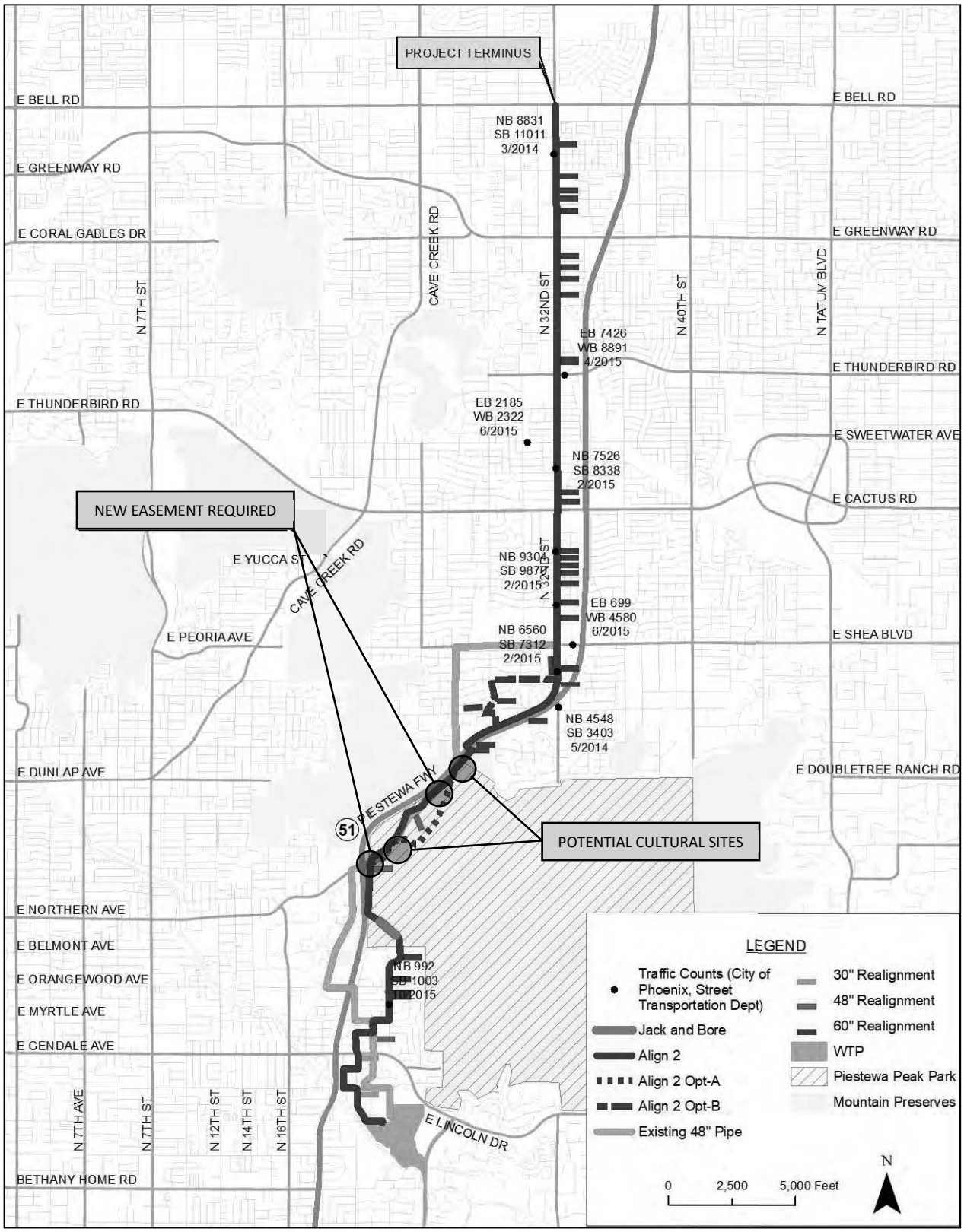


Figure 4 Alignment 2 Critical Impacts

5 Design Considerations

5.1 Design Criteria

The design criteria used for the proposed 60-inch transmission main study is the City of Phoenix Water Services 2017 Design Standards Manual for Water and Wastewater Systems as summarized in the following table.

Table 1 Design Criteria

Design Feature	Criteria	
Minimum Cover	6.5 feet	
Valve Spacing	5,280 feet	
Bypass Assemblies	Required at all valves; locate min. 150 feet from intersections	
Access Outlets	Required each side of valves	
Minimum Easement Width	80 feet	
Horizontal Separation of 60-inch Water Transmission Main from Utilities	Distribution Water Main	3-feet minimum
	Transmission Water Main	3-feet minimum
	Water Service Connection	3-feet minimum
	Sewer Main	6-feet minimum
	Sewer Service Connection	3-feet minimum
	Storm Drain & Irrigation	6-feet minimum
	Dry Utilities	6-feet minimum
Vertical Separation of 60-inch Water Transmission Main from Utilities	Distribution Water Main	2-feet minimum
	Transmission Water Main	2-feet minimum
	Water Service Connection	2-feet minimum
	Sewer Main	2-feet minimum – extra protection required if below
	Sewer Service Connection	2-feet minimum – extra protection required if below
	Storm Drain & Irrigation	2-feet minimum – extra protection required if below
	Dry Utilities	2-feet minimum

5.2 Socioeconomic Impacts

This section discusses the socioeconomic project impacts including commercial and residential property impacts and impacts to the traveling public, all of which can affect public opinion and potentially affect a project's budget and schedule.

5.2.1 Commercial/Residential Impacts

Each of the alignment alternatives considered in the previous sections impact residents and commercial enterprises to varying degrees. The primary impacts will be experienced during construction of the proposed waterline. Although it is difficult to quantify the actual impact to the affected entities, this section summarizes the estimated extent of the impacts based on the alignment selected. For this study, a property is considered "impacted" if the proposed waterline alignment is immediately adjacent or "fronts" the given property. Other properties that are near the project but are not adjacent to it may also be impacted but they were not considered here. **Table 2** summarizes the extent of the impacts to commercial or residential entities as defined above.

Table 2 Commercial/Residential Impacts

Alignment	Length of Pipe Adjacent to Property (ft)				No. of Impacted Properties		
	Commercial	Residential	Mountain Preserve	Total	Commercial	Residential	Total
1	23,700	33,100	0	56,800	288	491	799
1A	23,400	33,700	0	57,100	298	492	790
1B	21,500	34,100	0	55,600	428	318	746
2	14,400	23,100	10,300	47,800	148	270	418
2A	14,400	23,100	10,800	48,300	148	270	418
2B	13,400	25,700	10,300	49,400	143	322	465

Each of the categories shown indicates a significant increase in project impacts for the Alignment 1 options over the Alignment 2 options. The table also shows that the number of impacts to adjacent land users (commercial or residential) is much higher for all three Alignment 1 options. Conversely, since Alignment 2 utilizes a corridor in the PMP area, the number of adjacent land owners that will be impacted is greatly reduced. However, there are impacts to the users of the park, specifically the south and west reaches of the Perl Charles Memorial Trail, the Dreamy Draw Nature Trail, and the paved bikeway.

The total length of each alignment is quantified showing that Alignment 2 options are considerably shorter than the Alignment 1 options. This will have a large impact on the projected cost for the project.

5.2.2 Traffic Impacts

The scope of this project did not include the collection of current traffic data, but rather a cursory review of existing traffic data available from the City's database. The only traffic data available was obtained from the City of Phoenix Street Transportation Department. Appendix C contains the Traffic Volume Map from City of Phoenix for data included in Figure 3. The data

includes traffic volumes along a few of the alignment corridors and some of the crossing streets. In general, except for Lincoln Drive, the traffic volumes were higher in the northern portion of the project. Local knowledge of the area and the general traffic volumes on roads that do not have traffic data was also considered in this analysis.

The traffic data available that is parallel to the proposed pipe alignments was used to aid in determining the level of potential impact to traveling public along the alignments. Where no data was available, local knowledge was used to avoid roads that are known to be heavily congested during peak hours of travel (i.e., Lincoln Drive).

Some of the available traffic data included east-west data in locations where the proposed pipe alignment is oriented in a north-south direction. This data was analyzed to determine if the traffic volumes at the intersection warranted boring under the intersection rather than installing via open cut methods. The open cut method is much more intrusive and disruptive to the traveling public at the intersection, however the cost to install a casing under an intersection requires local staging and large excavations for entry and exit pits. Both the east-west and the north-south traffic volume data is shown.

5.3 Right-of-Way Impacts

Efforts were made to avoid right-of-way impacts to adjacent properties for all alignment options. Existing utility corridors were analyzed for available space to construct the proposed 60-inch waterline. The waterline requires minimum horizontal clearances from other utility lines as shown in **Table 1**. Where minimum clearances could not be achieved, it is proposed that the conflicting utility be relocated where feasible and cost efficient.

Alignment 1 can be constructed within the existing right-of-way except for one location as shown on **Figure 3** and **Figure 5**. On Cave Creek Road near Yucca Street, the proposed waterline for Alignment 1 follows the existing sewer, storm, and water lines on the east side. The remaining width on the east side of this corridor is insufficient to provide adequate horizontal clearance from the existing water line and the adjacent property line. The proposed water line construction will impact two adjacent parcels requiring new right-of-way or easements totaling an area of approximately 25-feet wide by 250-feet in length.

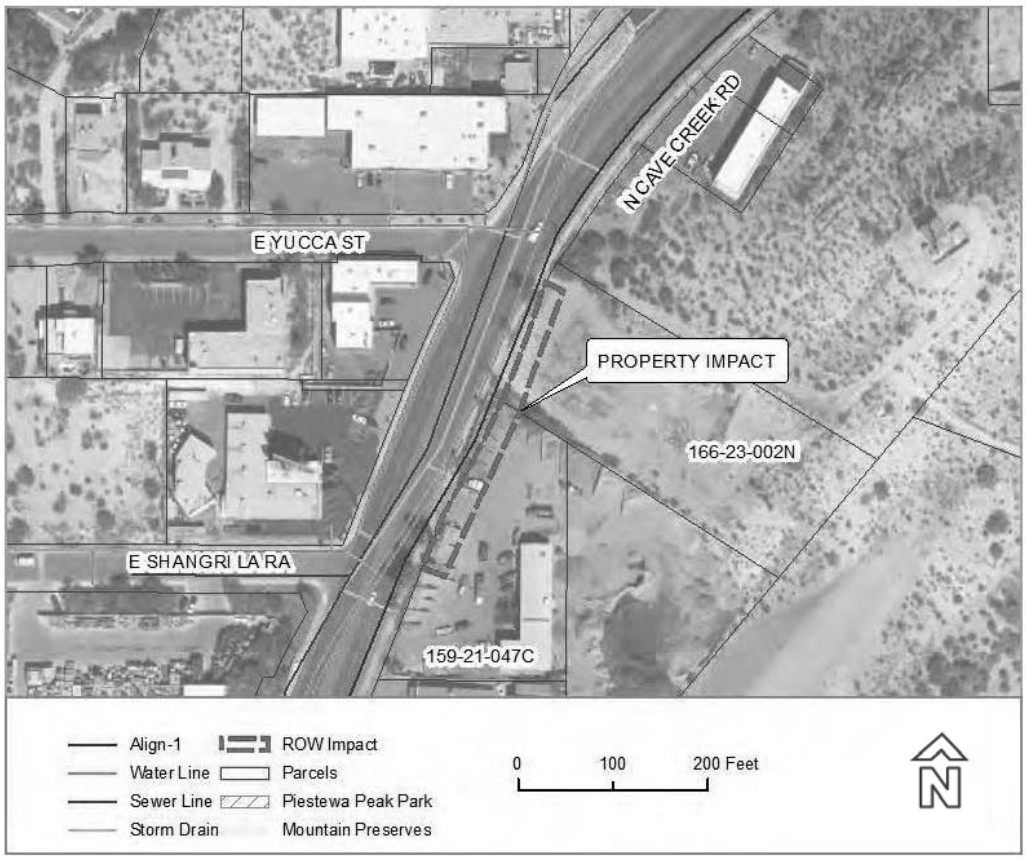


Figure 5 Alignment 1 Right-of-Way Impact

Alignment 2 can be constructed within the existing street right-of-way corridor or easements except for the PMP area, the majority of which is owned by the City of Phoenix. Near this location the alignment encroaches into ADOT right-of-way in two locations where the existing right-of-way is not parallel to the SR51 Freeway, requiring that an easement be obtained from ADOT, as shown in **Figure 6 and Figure 7**. In addition, a Temporary Construction Easement (TCE) may be required along the east side of the existing easement along the west edge of the Madison Heights Elementary School. The existing permanent easement consists of a 10-foot utility easement plus a 30-foot waterline easement. The easement is sufficiently wide for installation of the proposed waterline but will require at minimum a TCE to construct the pipe and more desirably a permanent easement increasing the width for future maintenance of the pipe. In addition to those already listed, both Alignments 1 and 2 may require other temporary construction easements which will be identified as the final design is developed.

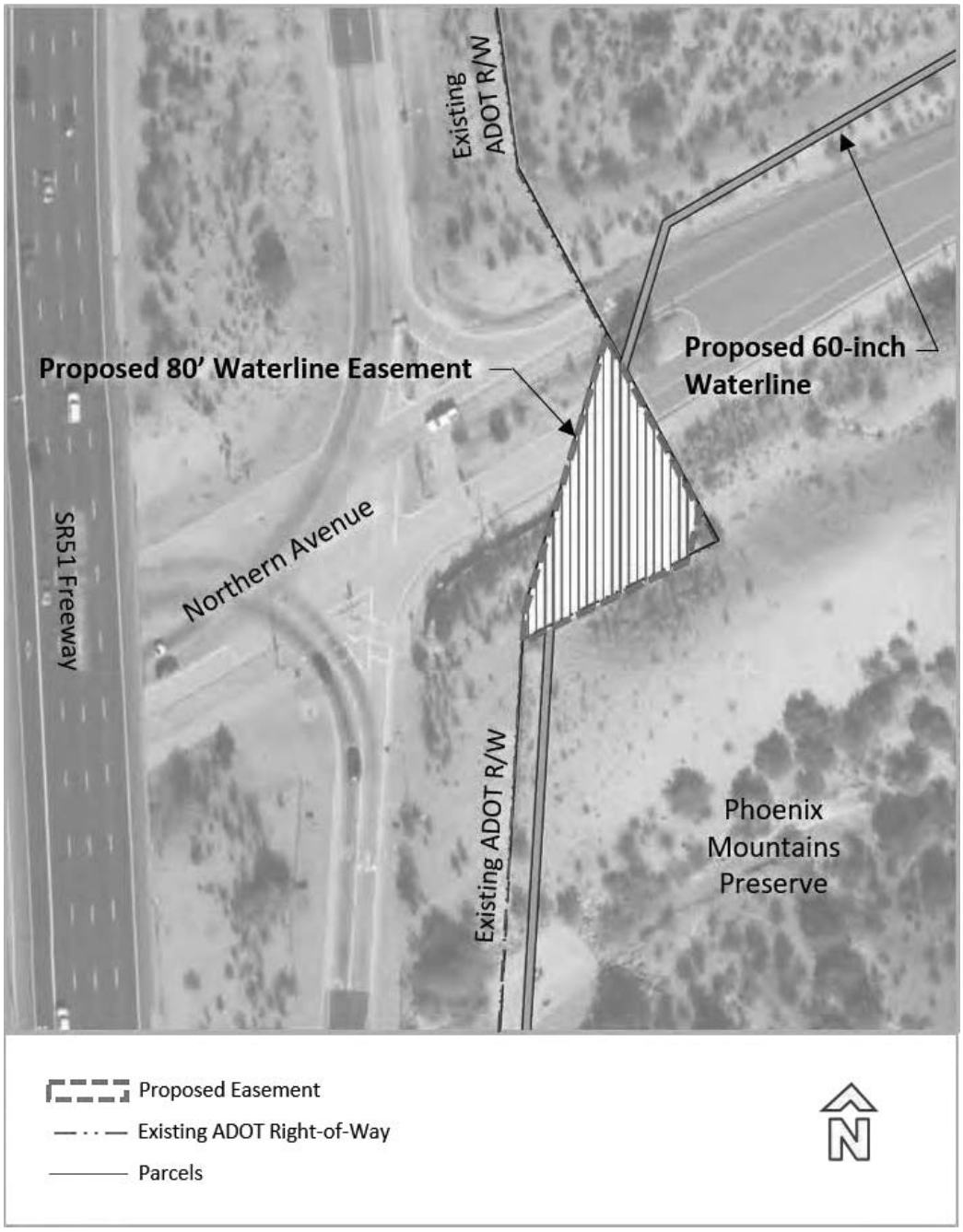


Figure 6 Alignment 2 Right-of-Way Impact at Northern Avenue and SR51

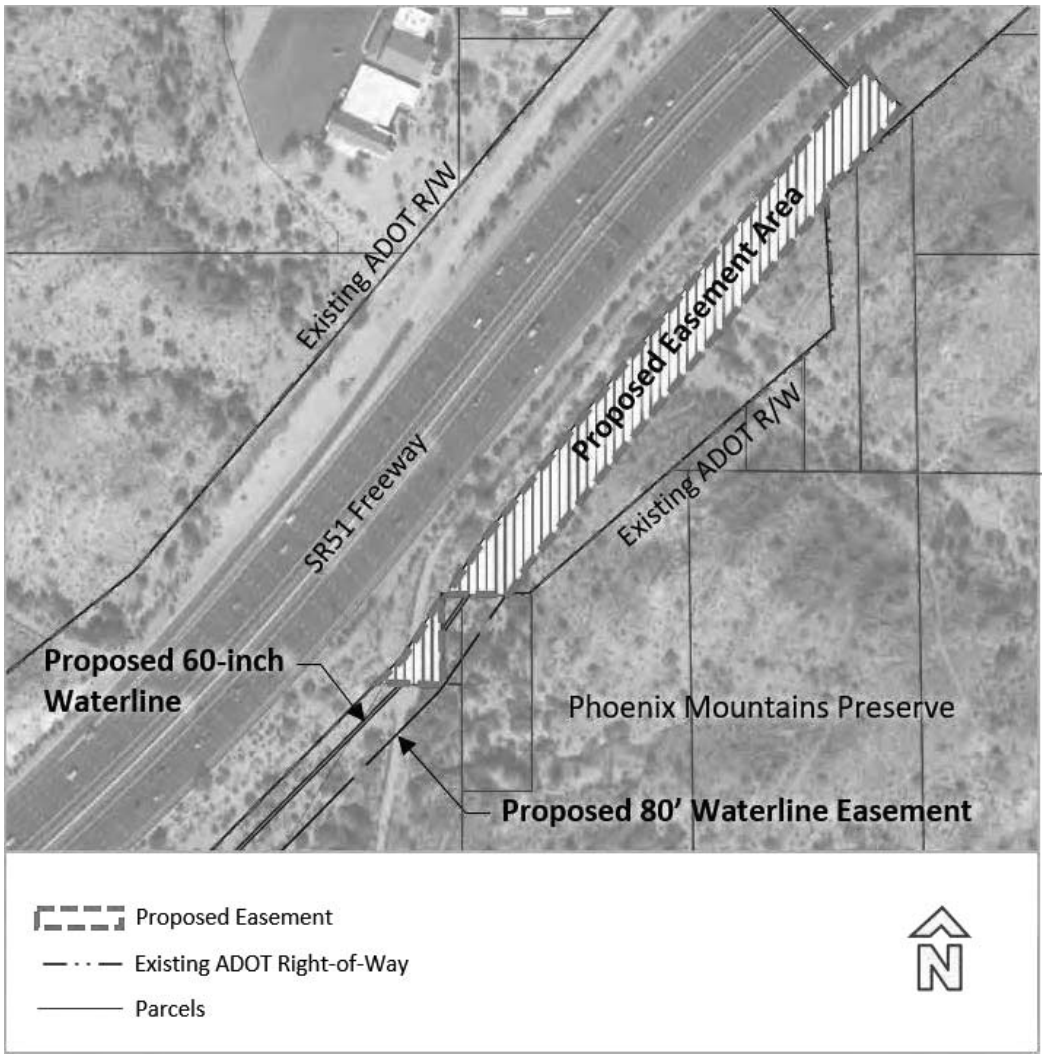


Figure 7 Alignment 2 Right-of-Way Impact at 26th Street and SR51

5.4 Environmental Impacts

One of Piestewa Peak's most heavily used trails, the #300 Summit Trail, has an estimated 4,000 to 10,000 hikers per week (based on City data). Alignment 2 does not cross Summit Trail or the access road, Squaw Peak Drive. However, there are several other trails that will be impacted during construction of the Alignment 2 waterline. These include the Perl Charles Memorial Trail in two locations, the Dreamy Draw Nature Trail, Trail 100 and other non-designated wildcat trails. The pit for the approximately 900-foot jack and bore or tunnel located immediately north of 22nd Street at the south edge of the PMP will impact the Perl Charles Memorial Trail and a few undesignated trails. In addition, Alignment 2 follows the Dreamy Draw Access Road and Alignment 2 Option A follows the Dreamy Draw Bikeway for a short distance. Construction will occur adjacent to the existing road and bikeway to preserve the

existing pavement and to maintain access for trail and bikeway users during construction. Any impacted trails will be reconstructed as directed by the City Parks and Recreation Department.

As shown in Figure 4 there are two potential cultural sites located on the east side of SR51 near the entrance to the Dreamy Draw trailhead and along the east side of SR51 just south of the proposed crossing of SR51 near 26th Street. The location near the Dreamy Draw trailhead is a group of claims and mines collectively known as the Rico Mine. These claims date back to 1916 shortly after mercury and copper deposits were found in the area. The site included historic artifact scatters, the remains of a mercury ore processing plant and 30 mine excavation features including tailings piles. Much of the existing site was destroyed by construction of SR51.

The other site near the crossing of SR51 near 26th Street includes a set of eight mining features and one historic artifact scatter probably associated with the Mercury Group of claims. These claims were established in 1916, but only limited work took place on them. This site was also destroyed by the construction of SR51.

At both sites a native plant inventory will be required to identify what species are present and should be salvaged. In addition, during construction of the proposed waterline, a permitted archaeologist will need to be on site during the excavation period to verify if artifacts are present and to see that they are transported to the appropriate repository.

In addition to these considerations, there are several locations where the proposed waterline crosses existing washes through the PMP area. At these locations a Section 404 Nationwide Permit may be required depending on the final area of disturbance from construction of the waterline.

5.5 Constructability

It is proposed that the pipeline be installed by open trench for most of the project length. Where located in roadways it is anticipated that one to two travel lanes will need to be closed off and traffic diverted to other open lanes to keep vehicles moving and to maintain access to businesses and homes as required. Major arterial corridors such as Cave Creek Road and 32nd Street have existing shoulders and a two-way left turn lane that can be utilized for maintenance of traffic. Approximately 20 businesses along the alignment corridors have only one access to their property and that access will be impacted by the construction of the waterline. Access to these properties must remain open during construction unless otherwise negotiated with the owner.

Each alignment was evaluated for anticipated construction risk factors. From the available data, it appears that no existing large diameter high pressure gas lines are near the proposed alignments. Intermediate high-pressure gas lines of 8-inch diameter or less were found and mapped along the alignment, particularly near intersections. There are significant

communications facilities along both alignments. See Appendix A and Appendix B for detailed mapping. Both alignments propose a jack and bore under SR51 and Alignment 2 proposes an approximately 900-foot jack and bore or tunnel through what is anticipated to be rock in the PMP as shown on Figure 8. These methods of construction may encounter unanticipated obstructions in the rock due to differing materials and/or delays due to the nature of the activity. In addition, the rock may require blasting at certain locations. It is paramount that these areas have extensive geotechnical investigation completed to better define the type and locations of materials that the waterline casing will pass through.

Trenching in rock is anticipated in and near the foothills of existing mountains. Locations include Cave Creek Road, 22nd Street, Sweetwater Avenue and 28th Street, all near mountains.

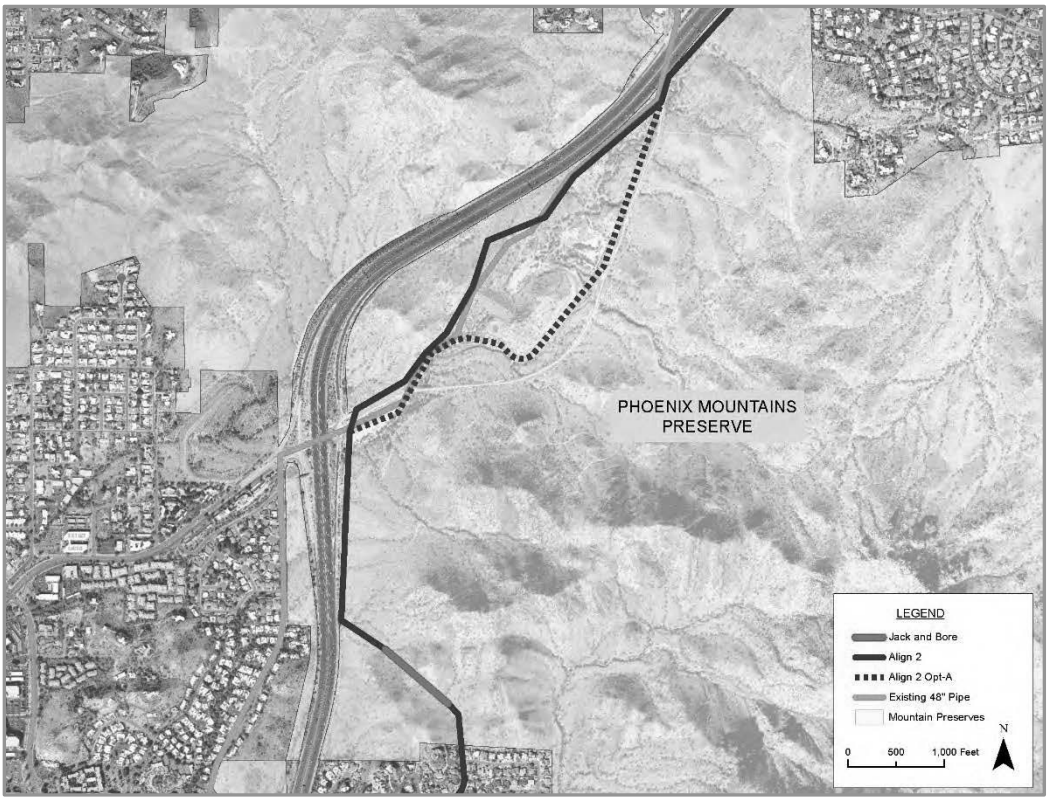


Figure 8 Alignment Through Phoenix Mountains Preserve

5.6 Utility Impacts

The proposed 60-inch waterline will use existing utility corridors along all classes of roads including arterials, collectors and local streets. As such, coordination with all utility owners are key to ensuring that project schedule and budget are maintained throughout the final design and construction. Available data on City storm drain pipes, wastewater pipes, and water pipes were obtained from the City and mapped to help evaluate each of the identified alignment options. Record drawings were obtained for several of the large diameter crossing waterlines.

Manholes on crossing storm drain and wastewater pipes were surveyed for location and depth. Dry utilities were mapped for a detailed analysis. The following sections discuss the evaluation and impacts to utilities.

5.6.1 Waterline Relocations and Vertical Realignments

As stated in Section 4.1, vertical realignment of crossing waterlines was estimated based on an average 8-foot depth of cover for the proposed 60-inch waterline. The existing crossing waterlines were assumed to be at standard depths from a minimum of 4-feet of cover and deeper for the larger diameter pipes. At crossing locations where invert data was unavailable, a conflict was assumed. A summary of the estimated waterline vertical realignments for all Alignments are on Table 3 below.

Table 3 Waterline Vertical Realignment

Alignment	Waterline Diameter & No. of Vertical Realignments						Total
	16-inch	20-inch	24-inch	30-inch	42-inch	48-inch	
1	2	1	2	4	0	1	**10**
1A	3	1	2	4	0	1	**11**
1B	8	1	2	6	2	0	**19**
2	0	0	0	2	0	3	**5**
2A	0	0	0	2	0	1	**3**
2B	0	0	0	2	0	3	**5**

Minimum horizontal clearances in accordance with Table 1 were maintained for all alignments. To achieve the minimum horizontal clearance, several locations will require horizontal relocation of existing water pipes. For Alignment 1 and its options, waterline relocations include a 6-inch water line on 20th Street, a 24-inch water line on Myrtle Avenue, a 16-inch water line on Cave Creek Road, and a 12-inch water lines on 32nd Street. Alignment 2 and its options require relocation of 8-inch water line on Glenn Drive and 12-inch water lines on 32nd Street. The anticipated costs of removing and relocating these utility lines are included in the cost estimate for each alignment.

Alignment 2 options contain fewer waterline realignments than the Alignment 1 options due primarily to the alignment through the PMP where few other utilities exist. Alignment 1 Option B has the highest number of waterline conflicts. Where possible, the vertical alignment of the proposed waterline avoided realignment of existing pipes to reduce costs and improve the constructability of the proposed water line.

5.6.2 Wastewater & Storm Water Pipes

Approximate locations of wastewater, storm, and water lines were mapped in ArcMap to help evaluate and design the preliminary alignments. Minimum horizontal clearances in accordance with Table 1 were maintained for all alignments and utilities. To achieve the minimum horizontal clearance, a few locations require horizontal relocation of existing wastewater pipes. For Alignment 1 and its options, wastewater relocations include 8-inch and 12-inch wastewater lines on 32nd Street and 8-inch lines on Cave Creek Road. Alignment 2 and its options require relocation of the same 8-inch and 12-inch wastewater lines on 32nd Street. The anticipated costs of removing and relocating these utility lines are included in the cost estimate for each alignment.

5.6.3 Dry Utilities

Dry utilities were mapped for the project. Attention was given to jack and bore locations and major intersections to determine if jack and bore is advantageous or if open cut is a viable option. Anticipated optimal placement of jacking and receiving pits and alignment of the proposed waterline was considered. Impacts to dry utilities from the jacking and receiving pits were unavoidable in some locations. It is anticipated that any relocation of dry utilities will be completed and paid for by the utility owner for all locations of conflict. The waterline alignments were placed in locations that would not impact overhead utilities and power poles.

There is a significant communications multi-conduit duct bank and associated structures along the east side of 32nd Street from Shea Boulevard to Bell Road. A direct bury communications cable will require relocation near Aire Libre Avenue, located south of Bell Road. In addition, a small section of duct bank will also require relocation on 32nd Street just north of Phelps Road. These relocations are necessary for both Alignment 1 and 2. Costs for relocation are included in the estimates.

5.7 Geotechnical Considerations

A geotechnical evaluation was completed by Ninyo & Moore (Ninyo) for the recommended alignment, see Appendix G. The evaluation did not include any borings but rather it provided site observations and geologic research results regarding the anticipated soil and rock conditions that are likely to be encountered along the proposed alignment during construction. The research included as-built documentation from ADOT from the construction of SR51, along which much of the recommended alignment parallels. This information coupled with borings conducted along the alignment is critical to the success of the proposed pipe installation through the PMP and throughout the project. Following is a summary of the results of the ADOT as-built documentation.

5.7.1 ADOT, SR51 – Arizona Canal to Glendale Avenue

Exploration logs from ground surface to 50.5 feet below the ground surface (bgs):

- Surface to 6′ bgs - Sandy gravel from surface to 6 feet bgs
- 6′ bgs to 50.5′ bgs – Conglomerate with high cementation with boulders and cobbles

5.7.2 ADOT, SR51 – Glendale Avenue to Northern Avenue

Exploration logs from ground surface to 55 feet bgs:

- Surface to 10′ bgs – Poorly graded gravel, clayey sand, silty gravel and silty sand
- 10′ bgs to 55′ bgs – Cobbles or boulders and/or conglomerate

5.7.3 ADOT, SR51 – Northern Avenue to Shea Boulevard

Exploration logs from ground surface to 70 feet bgs:

- Surface to 9′ bgs – Silty gravel, clayey sand, and silty sand
- 9′ bgs to 70′ bgs – Clayey sand, silty clay, sandy silt, and silty gravel

5.7.4 ADOT, SR51 – Shea Boulevard to Thunderbird Rod

Exploration logs from ground surface to 75 feet bgs:

- Cholla Road
  - Surface to 5′ bgs–10′ bgs – Clayey sand, sandy clay and silty clay
  - 5′ bgs–10′ bgs to total depth explored – Very dense or hard material
- Cactus Road
  - Surface to 5′ bgs–25′ bgs – Sandy clay, clayey sand, silty clay, clayey silty and silty sand
  - 5′ bgs–25′ bgs to total depth explored – Very dense or hard material
- Sweetwater Avenue
  - Surface to 5′ bgs–10′ bgs – Sandy clay, clayey sand, silty clay, and sandy silt
  - 5′ bgs–10′ bgs to total depth explored – Very dense or hard material
- Thunderbird Road
  - Surface to 5′ bgs-15′ bgs – Silty clay, clayey gravel, sandy silt, silty sand, sandy clay and gravelly sand
  - 5′ bgs-15′ bgs to total depth explored – Very dense or hard material

5.7.5 ADOT, SR51 – Thunderbird Road to Bell Road

Exploration logs from ground surface to 80 feet below the ground surface (bgs):

- Nisbet Road
  - Surface to 10′ bgs – Sandy clay, clayey sand and gravel, silty sand, silty clay and sandy gravel
  - 10′ bgs to total depth explored – Very dense or hard material
- Greenway Road

  - Surface to 5' bgs-10' bgs to total depth explored – Silty clay, silty sand, sandy silt, clayey sand, sand, sandy gravel, sandy clay, clayey sand and gravel, silty sand and gravel
- Bell Road
  - Surface to 5' bgs-10' bgs – clayey sand, sandy clay, sand, sandy silt, silty clay, gravelly sand, and sandy gravel
  - 5' bgs-10' bgs to total depth explored – Very dense or hard material

5.7.6 Rippability

Based on the review of as-built documentation, the surface alluvial materials within the project site are expected to be generally rippable to relatively shallow depths with conventional heavy-duty powered equipment. However, cemented alluvial material, bedrock and cobbles/boulders and other dense underlaying material will necessitate more aggressive excavation techniques up to and possibly including blasting.

5.7.7 Trenching

Some of the soils within the proposed alignment may be problematic for slope stability in trenches due to the depth of bedrock, the presence of cemented pan and cutbacks prone to cave-ins.

5.8 Pipe Material Selection & Method of Installation

Typical installation of the 60-inch waterline will be done by open trench. Jack and bore will be used to cross the SR51 freeway and possibly at intersections where advantageous to do so. This will help minimize disruption to traffic during peak hours of travel. The jack and bore locations will require jacking pits a minimum of 20 to 30-feet in width and approximately 40-feet in length. Receiving pits were estimated to need 20-feet in width and 20-feet in length. Where jack and bore is utilized, a steel casing 78- to 84-inches in diameter will be required in which to house the proposed waterline.

All alignment options include locations where jack and bore may be advantageous. These locations require thorough analysis and design as well as careful coordination to minimize risks during construction.

In accordance with the City's 2017 Design Manual for Water and Wastewater Systems, waterlines larger than 48-inches require that the pipe material be either steel cylinder pipe or DIP in accordance with Maricopa Association of Governments (MAG) Standards and the City Supplements to MAG. It is likely that cathodic protection will be needed for steel cylinder pipe. For the purposes of cost estimating, it is assumed that such a system will be required.

City standards require that butterfly valves, bypass assemblies, and associated vaults be located at one-mile intervals. Access ports are required on each side of the valves with manholes. Fire

hydrants are to be used at high points for air relief and at low points for draining and cleaning the pipe. Joint restraints will be in accordance with the approved piping material and will be determined during final design.

6 Cost Analysis

Planning-level construction costs were estimated for known bid items based on conceptual design. Items included are the 60-inch waterline, anticipated jack and bore, vertical waterline realignments, 60-inch butterfly valve assembly, excavation in rock, and items for relocating wet utilities, easement and right-of-way costs, etc. The installation of the 60-inch waterline was estimated with an average cost per unit foot of length. A summary of the cost estimate for each alternative is shown below in **Table 4**. See Appendix D for the full cost estimate of each alternative. The General Items include traffic control, mobilization, engineering and construction administration. Waterline Items include all construction items related to installation of the waterline.

Table 4 Summary of Estimated Construction Costs

Alignment	General Items	Waterline Items	Contingency (20%)	Total Estimated Cost
1	$13,242,000	$35,782,000	$9,805,000	**$58,829,000**
1A	$12,991,000	$35,108,000	$9,620,000	**$57,719,000**
1B	$13,294,000	$35,928,000	$9,845,000	**$59,067,000**
2	$11,596,000	$31,337,000	$8,587,000	**$51,520,000**
2A	$11,633,000	$31,436,000	$8,614,000	**$51,683,000**
2B	$11,914,000	$32,195,000	$8,822,000	**$52,931,000**

As discussed in previous sections, the Alignment 2 options have intrinsic benefits that result in cost savings including a shorter length, fewer parcels impacted, and fewer utility conflicts. These factors result in a $4.8 million cost benefit of the most expensive Alignment 2 option verses the least expensive Alignment 1 option.

7 Evaluation of Alternatives

7.1 Evaluation Matrix

The two alignments with their associated options were inserted into an evaluation matrix that includes such impact factors as pipe length, cost, affected properties, utility conflicts and relocations, traffic impacts, right-of-way, environmental and risk as shown in Table 5. Each factor is assigned a color-coded rating corresponding to poor, better, and best (red, yellow and green respectively) as discussed in Section 7.2. As shown below, the Alignment 2 options

provide significant cost savings and other intrinsic values which benefit design and constructability.

Table 5 Evaluation Matrix of Alternatives

Impact Factor	Alignment No.					
	1	1A	1B	2	2A	2B
Alignment Length (LF)	56,800	57,100	55,600	47,800	48,300	49,400
Total Cost	$58.8 M	$57.7 M	$59.1 M	$51.5 M	$51.7 M	$52.9 M
Commercial Properties (EA)	288	298	428	148	148	143
Residential Properties (EA)	491	492	318	270	270	322
Waterline Realignment (EA)	8	8	11	5	3	5
J&B Utility Relocation Cost	$299 K	$226 K	$304 K	$195 K	$195 K	$195 K
Traffic (LF in arterial road)	26,940	34,460	32,940	23,350	23,350	23,350
Right-of-Way (no. of parcels)	2	2	2	3	3	3
Environmental	None	None	None	Cultural	Cultural	Cultural
Perceived Risks	Low Arterial	Most Arterial	High Arterial	J&B in PMP	J&B in PMP	J&B in PMP

7.2 Preferred Alternatives

Selecting a preferred alignment requires analysis of all factors included in Table 5. To evaluate each of the alignments on a consistent scale, criteria and associated scores were developed for each of the factors listed above. Criteria was developed according to available ranges of quantities. There are three ranges for each factor with scores of 1 (poor), 5 (better) and 10 (best). In addition, a weighting was developed for each of the 10 factors according to importance as determined through application of engineering experience and experience in working with the City on similar projects. Cost, right-of-way, environmental, and perceived risk have the heaviest weighting as shown in Table 5. The weightings for all factors add up to a total of 1.0. The factor scores were then multiplied by the weighting to produce an overall score. The higher the score, the better the alternative. Table 6 shows the computed scores for each alignment.

Table 6 Factor Score, Criteria, and Weighting

Impact Factor	Score & Criteria			Weighting
	10	5	1	
Alignment Length (LF)	<50	51-55	>55	0.050
Total Cost	<52.5	52.5-55	>55	0.275
Commercial Properties (EA)	<200	200-300	>300	0.025
Residential Properties (EA)	<300	300-400	>400	0.025
Waterline Realignment (EA)	<6	6-10	>10	0.050
J&B Utility Relocation Cost	<200	200-300	>300	0.050
Traffic (LF in arterial road)	<20K	20K-30K	>30K	0.075
Right-of-Way (no. of parcels)	0	1-5	>5	0.150
Environmental	0	1	>1	0.100
Perceived Risks	Low	Medium	High	0.200

Table 7 Alignment Score

Impact Factor	Alignment No.					
	1	1A	1B	2	2A	2B
Alignment Length (LF)	0.050	0.050	0.250	0.500	0.500	0.500
Total Cost	0.275	0.275	0.275	2.750	2.750	1.375
Commercial Properties (EA)	0.125	0.125	0.025	0.250	0.250	0.250
Residential Properties (EA)	0.025	0.025	0.125	0.250	0.250	0.125
Waterline Realignment (EA)	0.250	0.250	0.050	0.500	0.500	0.500
Utility Relocation Cost	0.250	0.250	0.050	0.500	0.500	0.500
Traffic (LF in arterial road)	0.375	0.075	0.075	0.375	0.375	0.375
Right-of-Way (no. of parcels)	0.750	0.750	0.075	0.075	0.075	0.075
Environmental	1.000	1.000	1.000	0.100	0.100	0.100
Perceived Risk	2.000	1.000	1.000	0.200	0.200	0.200
TOTAL SCORE	**5.100**	**3.800**	**3.600**	**6.175**	**6.175**	**4.675**

There are two alignments that rank the highest, Alignment 2 and 2A. They are very similar alignments with only minor differences in the PMP area. Each alignment has an identical total score; however, Alignment 2 is approximately $200,000 less than Alignment 2A.

7.2.1 Alignment 2

Alignment 2 is the shortest in length and has the lowest estimated cost. Impacts to commercial and residential properties are reduced. The greatest benefit of this alignment is the use of the PMP which reduces impacts to traffic, right-of-way, and existing utilities. One of the potential challenges with this alignment is the approximate 900-foot jack and bore or tunnel through rock on the west end of Piestewa Peak. Additionally, this alignment requires crossing of the existing 48-inch waterline in two locations. However, the alignment through the Dreamy Draw Trailhead area approximately parallels the existing 48-inch waterline. This may help in obtaining concurrence from the City Parks and Recreation Department since the alignment would be adjacent to an existing waterline.

7.2.2 Alignment 2A

Alignment 2A is very similar to Alignment 2 in cost, length, and impacts to properties. It also includes the approximately 900-foot jack and bore or tunnel through rock on the west side of

Piestewa Peak. One of the benefits of this alignment over Alignment 2 is that it eliminates the need to cross the existing 48-inch water line near the Dreamy Draw Recreation Area. The down side of deviating the alignment away from the existing 48-inch water line and following Dreamy Draw Drive slightly increases the overall length of the alignment and would be an entirely new alignment through the Dreamy Draw Trailhead area. This would likely be a very unpopular alternative for those who utilize the paved bike trail through the Dreamy Draw area.

8 Recommendation

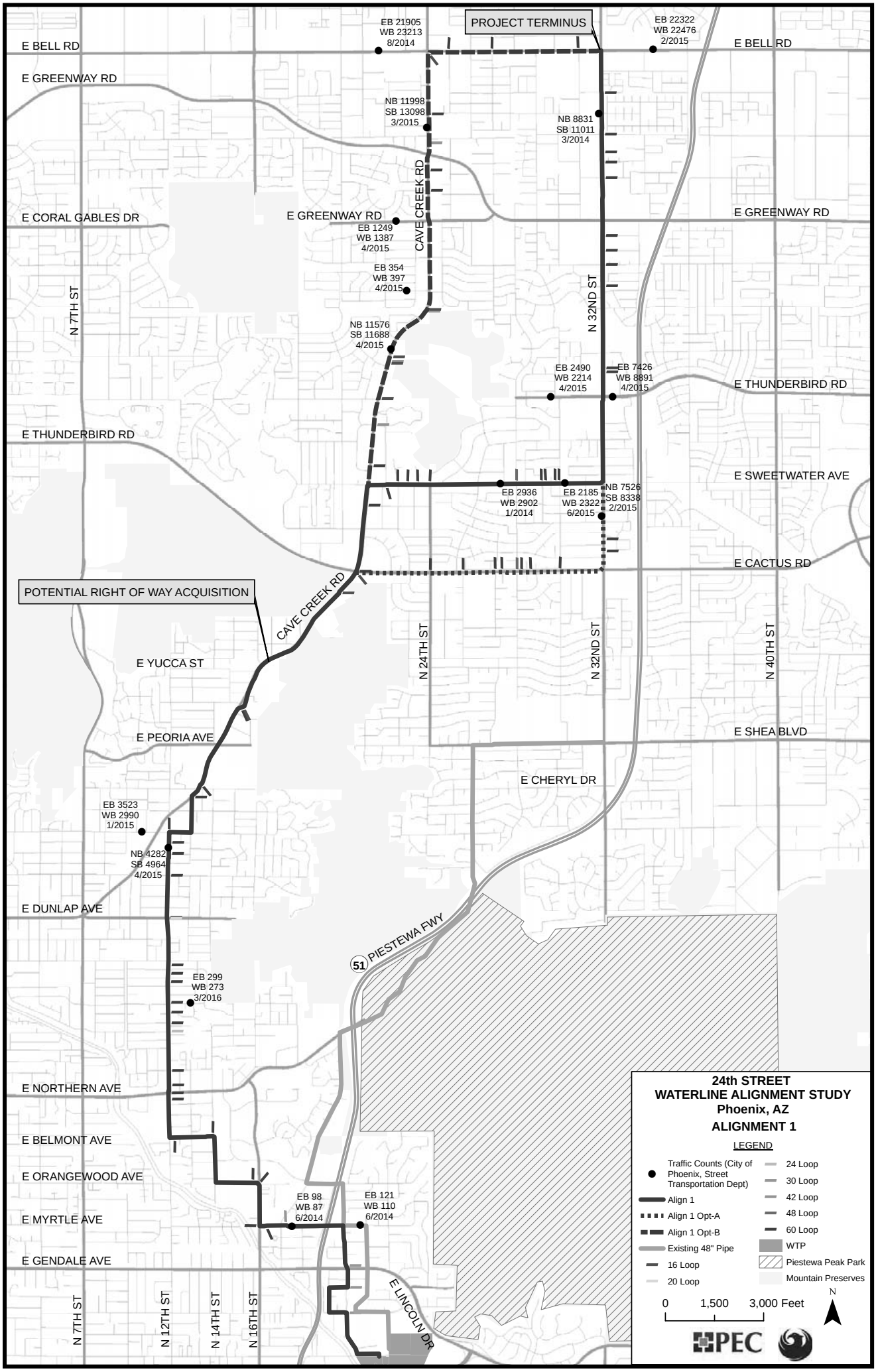
It is recommended that Alignment 2 be constructed given that it has the highest alignment score which is due primarily to its significantly lower cost and other benefits when compared to Alignment 1 and the Alignment 1 and 2 options as shown in Table 7.

This recommendation was presented to Water Services personnel at the City along with the Preliminary Pipeline Alignment Study for consideration. Water Services approved the recommendation and in turn presented it to the Park and Recreation Department to gain their approval and support of the project since a significant portion of the recommended alignment is through the PMP.

PEC was notified that the recommendation was approved and received direction to move forward with the Phase 2 design-grade aerial survey of the recommended Alignment 1 and subsequent development of 30% design plans and associated estimate of probable construction costs. The resulting 30% design plans and cost estimate are included in Appendix E and F respectively.

Appendix A

Alignment 1 Mapping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POTENTIAL RIGHT OF WAY ACQUISITION
E BELL RD
E GREENWAY RD
E CORAL GABLES DR
E THUNDERBIRD RD
E SWEETWATER AVE
E CACTUS RD
E YUCCA ST
E PEORIA AVE
E SHEA BLVD
E CHERYL DR
E DUNLAP AVE
E NORTHERN AVE
E BELMONT AVE
E ORANGEWOOD AVE
E MYRTLE AVE
E GENDALE AVE
E LINCOLN DR
N 7TH ST
N 12TH ST
N 14TH ST
N 16TH ST
N 24TH ST
N 32ND ST
N 40TH ST
CAVE CREEK RD
51 PIESTEWA FWY
EB 21905
WB 23213
8/2014
EB 22322
WB 22476
2/2015
NB 11998
SB 13098
3/2015
NB 8831
SB 11011
3/2014
EB 1249
WB 1387
4/2015
EB 354
WB 397
4/2015
NB 11576
SB 11688
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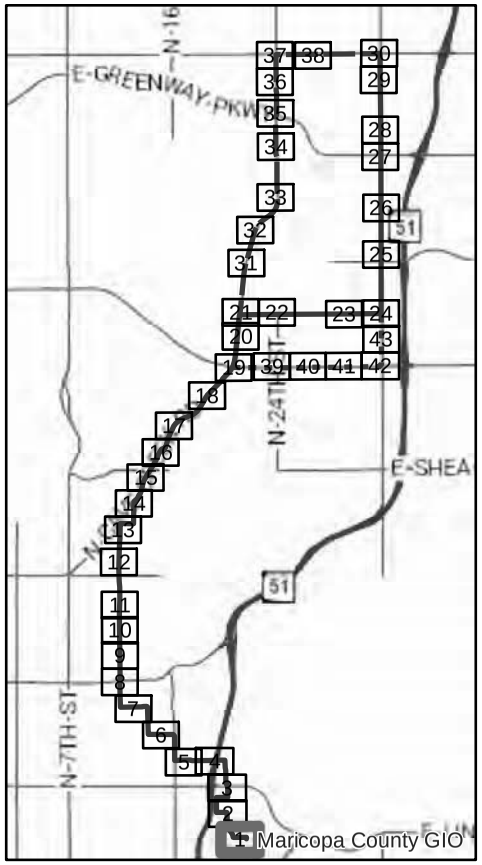
WB 2902
1/2014
EB 2185
WB 2322
6/2015
NB 7526
SB 8338
2/2015
EB 3523
WB 2990
1/2015
NB 4282
SB 4964
4/2015
EB 299
WB 273
3/2016
EB 98
WB 87
6/2014
EB 121
WB 110
6/2014
24th STREET
WATERLINE ALIGNMENT STUDY
Phoenix, AZ
ALIGNMENT 1
LEGEND
Traffic Counts (City of Phoenix, Street Transportation Dept)
Align 1
Align 1 Opt-A
Align 1 Opt-B
Existing 48" Pipe
16 Loop
20 Loop
24 Loop
30 Loop
42 Loop
48 Loop
60 Loop
WTP
Piestewa Peak Park
Mountain Preserves
0
1,500
3,000 Feet
N
PEC



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

LEGEND

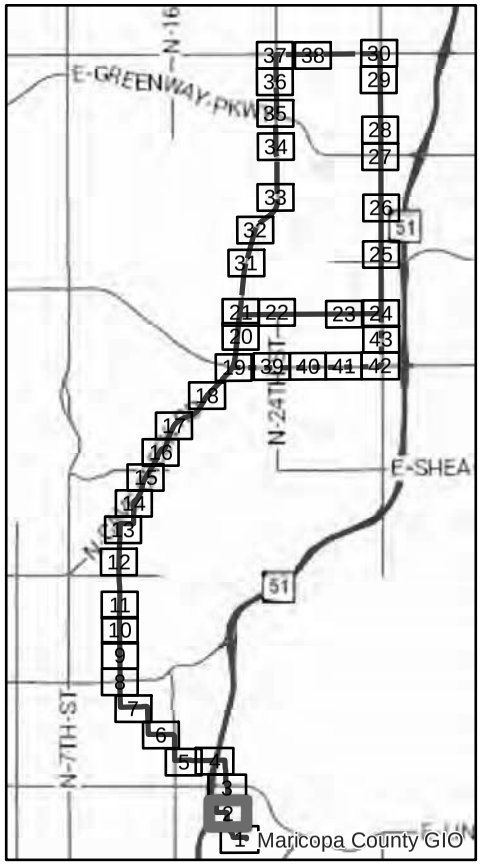
- Alt-1
- Alt-1 Opt-A
- Alt-1 Opt-B
- 72" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 1 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

- Alt-1
- Alt-1 Opt-A
- Alt-1 Opt-B
- 72" Jack & Bore
- Jacking Pit
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- Water Line
- Sewer Line
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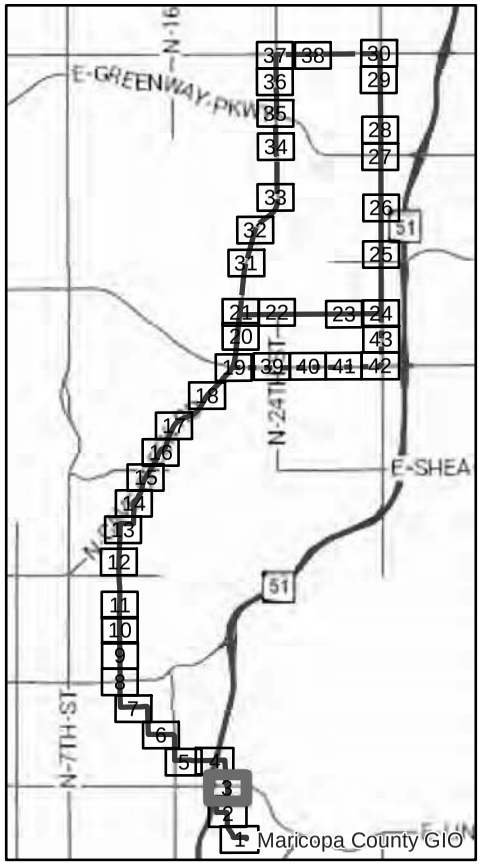
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 2 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

- Alt-1
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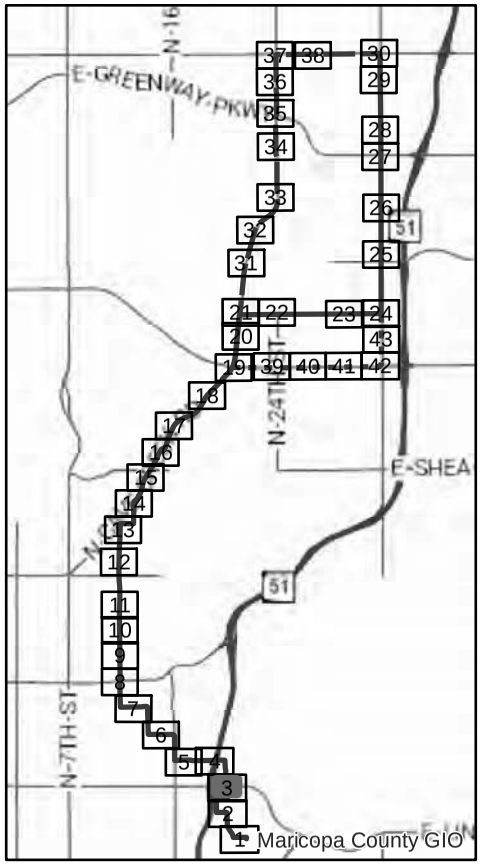
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 3 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

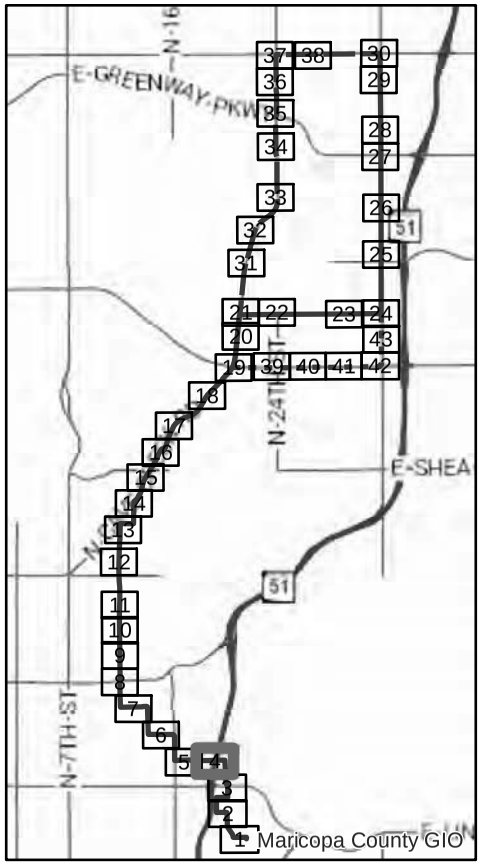
- Alt-1
- Alt-1 Opt-A
- Alt-1 Opt-B
- 84" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 3A of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

LEGEND

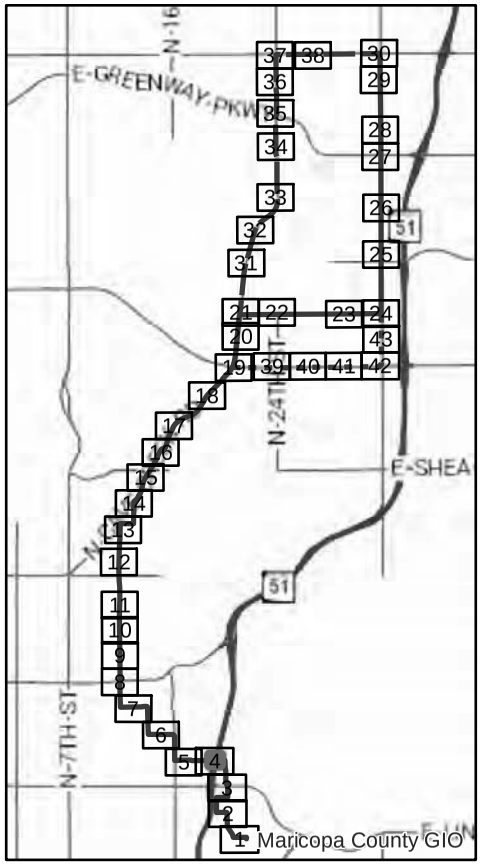
- Alt-1
- Alt-1 Opt-A
- Alt-1 Opt-B
- 72" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 4 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

- Alt-1
- Alt-1 Opt-A
- Alt-1 Opt-B
- 84" Jack & Bore
- Jacking Pit
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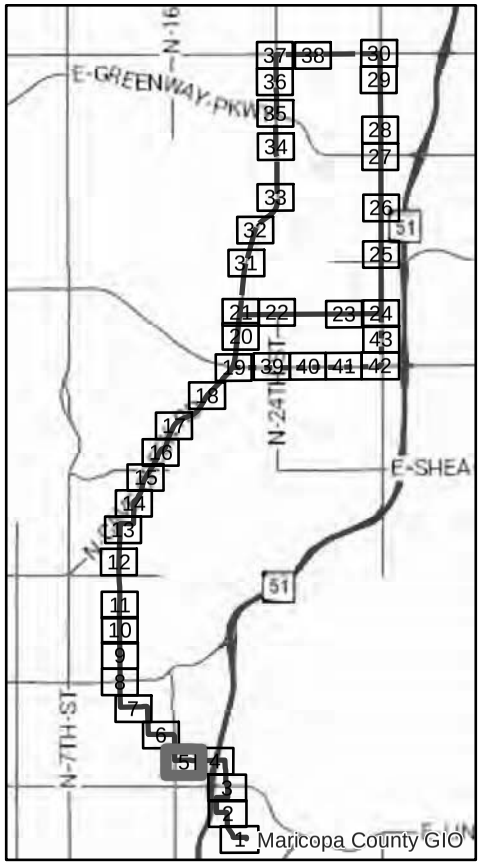
- Water Line
- Sewer Line
- Sewer Manhole
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 4A of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

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- Alt-1 Opt-A
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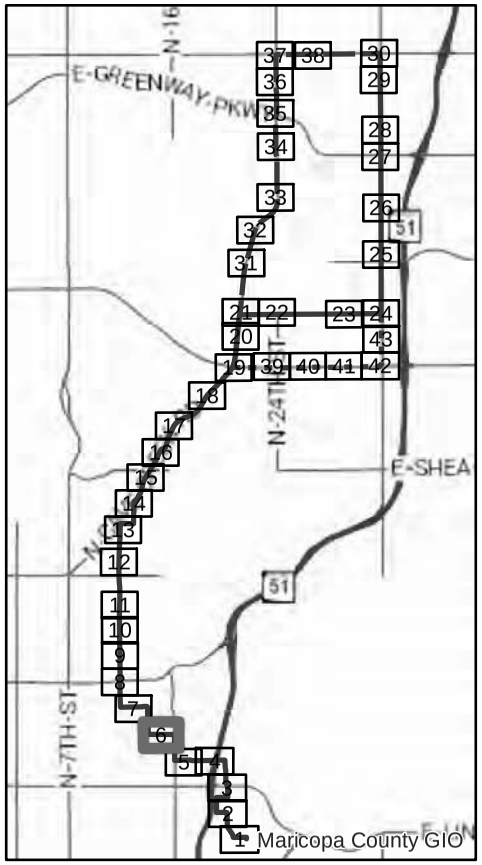
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 5 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

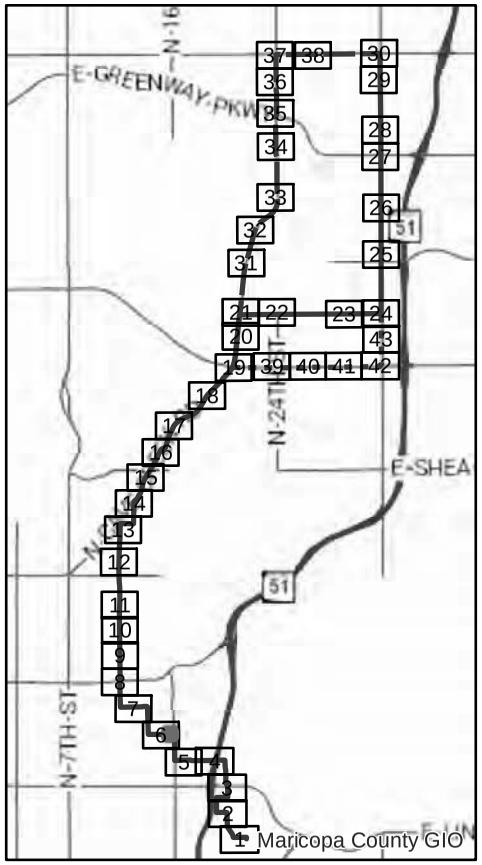
- Alt-1
- Alt-1 Opt-A
- Alt-1 Opt-B
- 72" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 6 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

- Alt-1
- Alt-1 Opt-A
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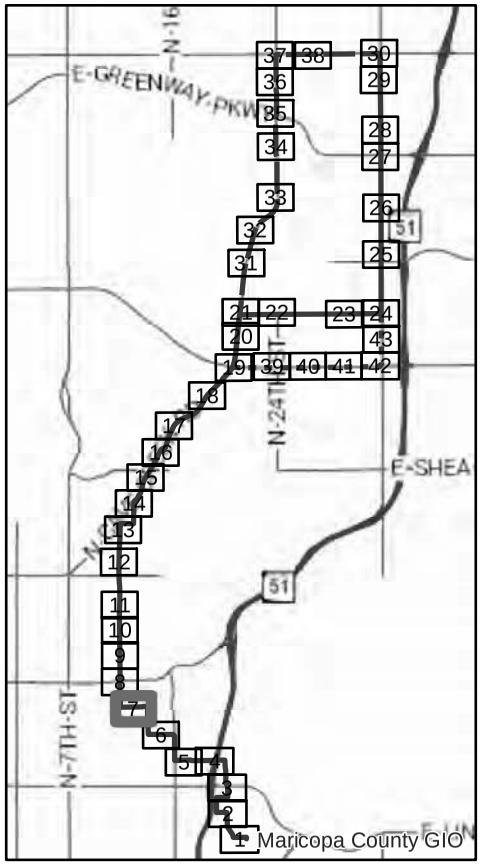
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 6A of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

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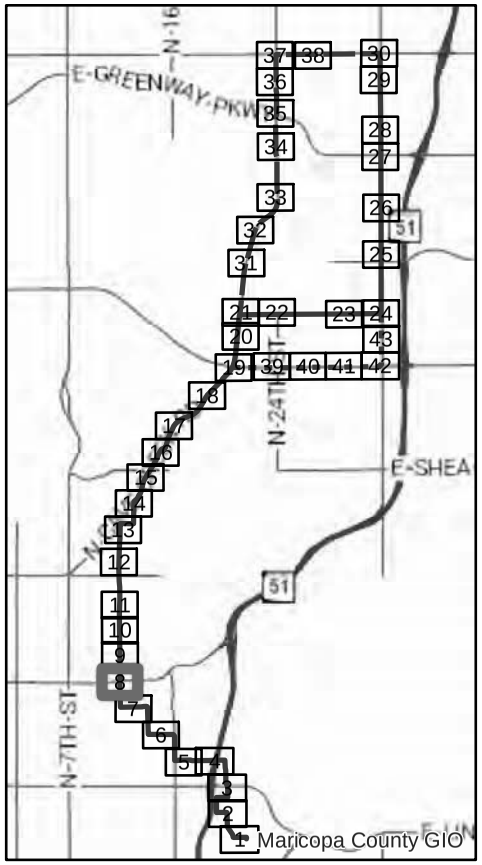
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 7 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

LEGEND

- Alt-1
- Alt-1 Opt-A
- Alt-1 Opt-B
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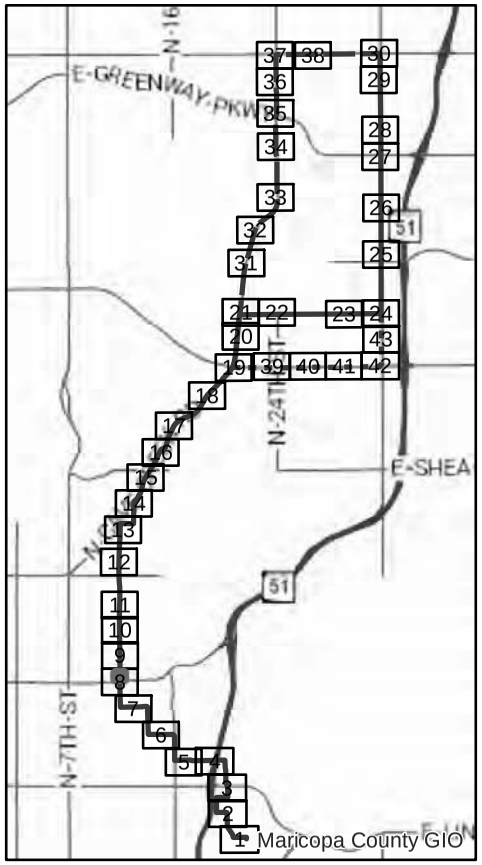
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 8 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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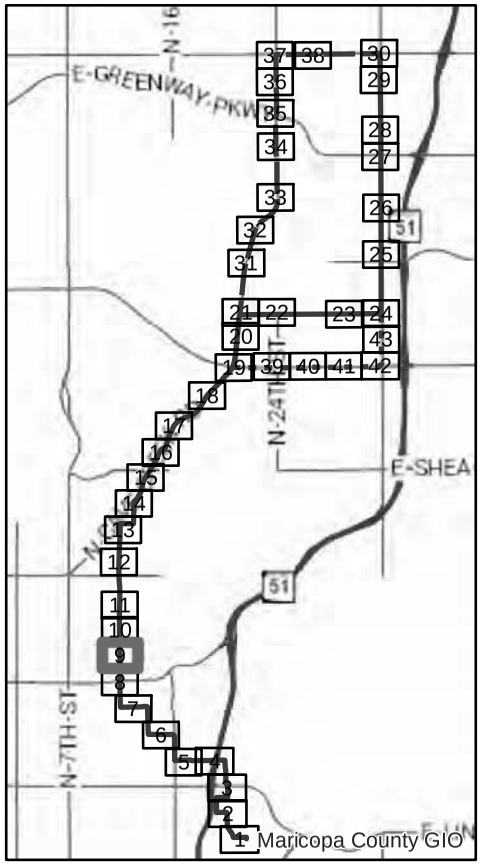
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 8A of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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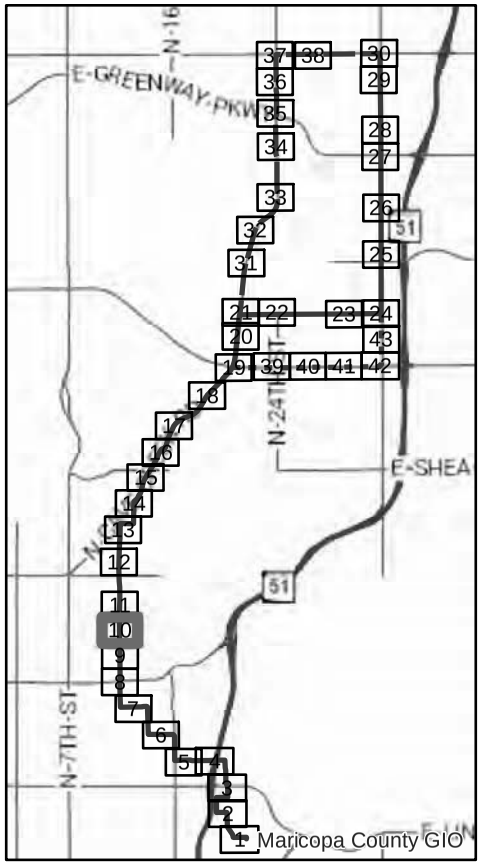
0 100 200 Feet

N

PEC

Sheet 9 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

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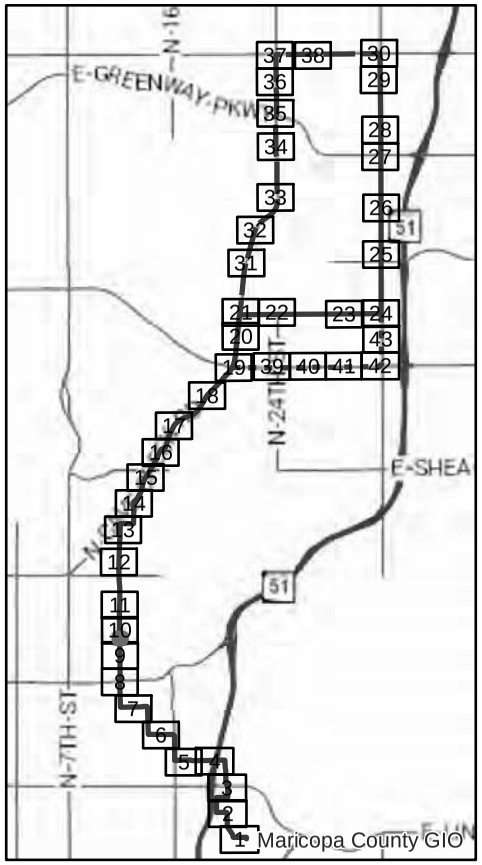
0 100 200 Feet

N

PEC

Sheet 10 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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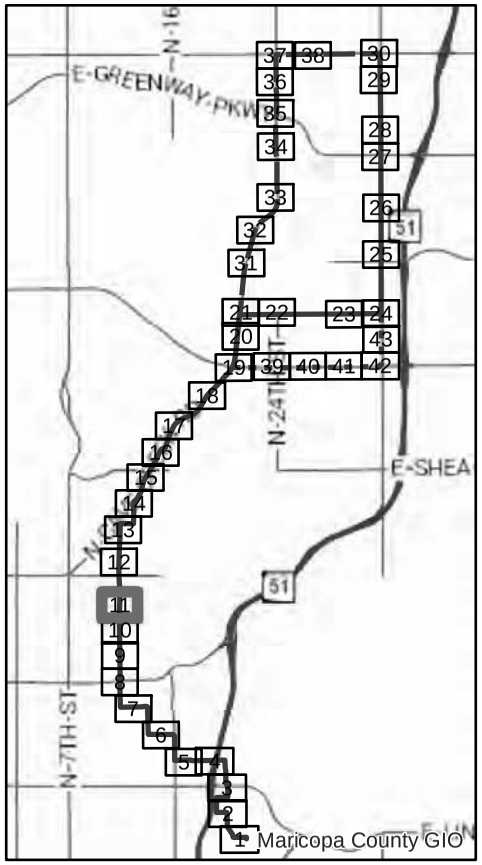
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 10A of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

LEGEND

- Alt-1
- Alt-1 Opt-A
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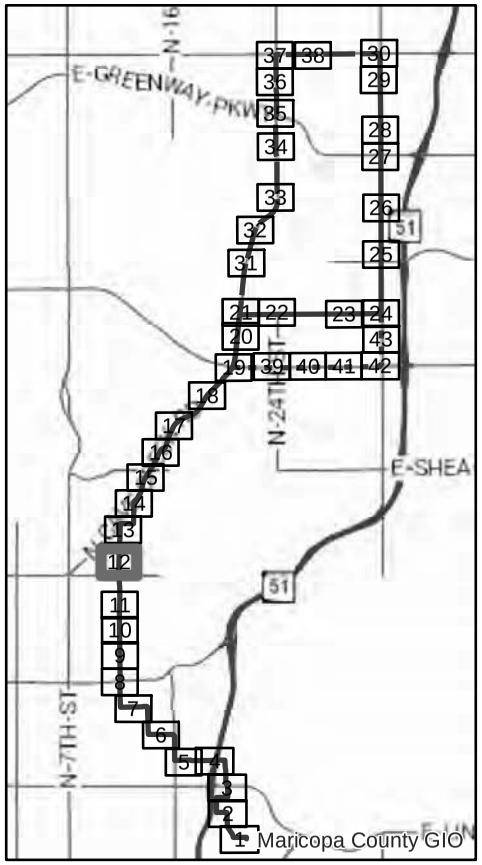
0 100 200 Feet

N

PEC

Sheet 11 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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- Alt-1 Opt-A
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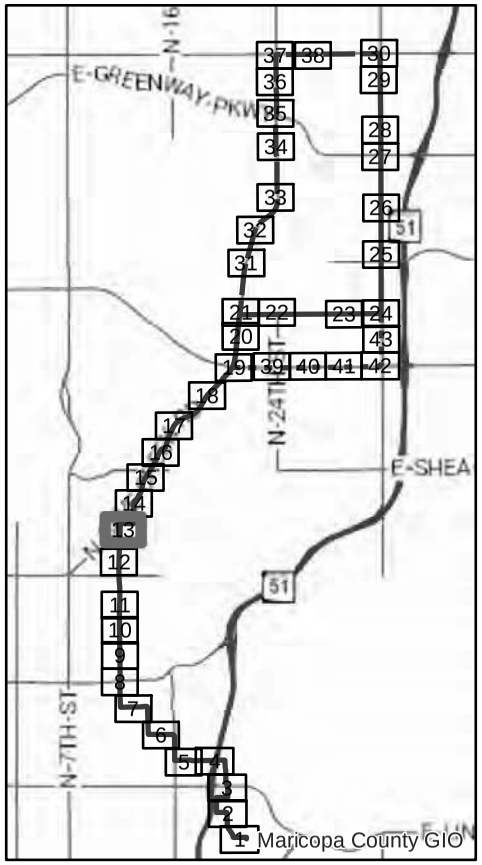
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 12 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

LEGEND

- Alt-1
- Alt-1 Opt-A
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- Power - OH
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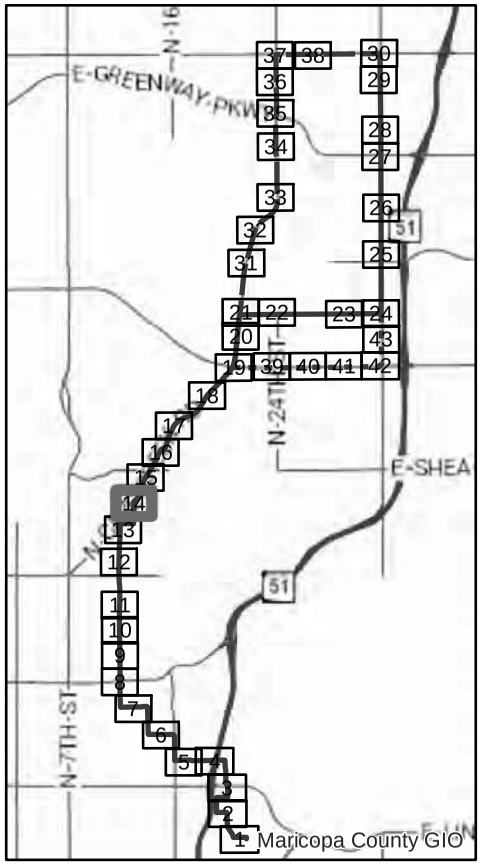
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 13 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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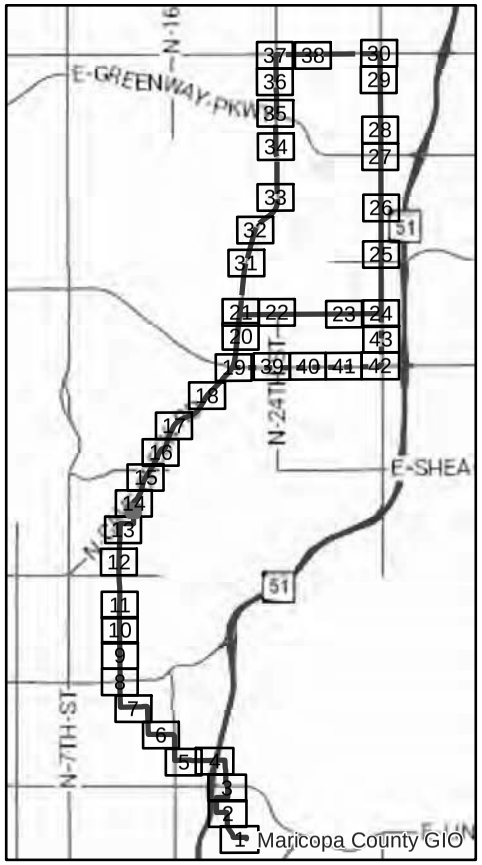
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 14 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

- Alt-1
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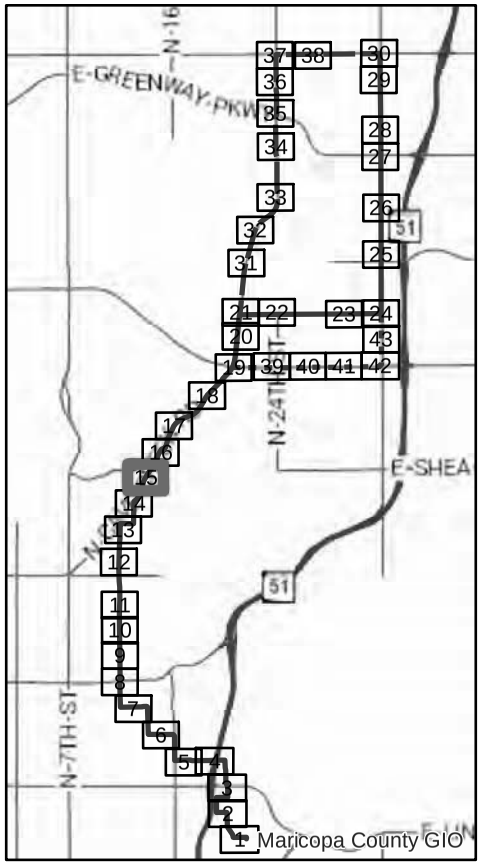
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 14A of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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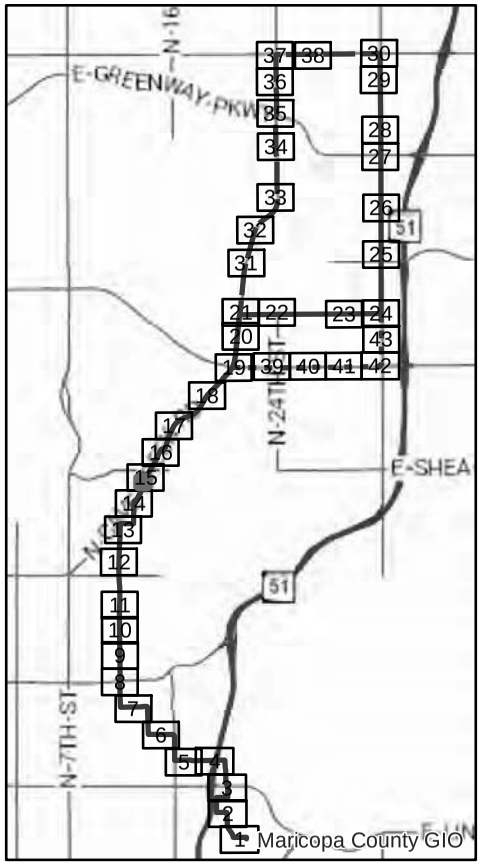
0 100 200 Feet

N

PEC

Sheet 15 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

LEGEND

- Alt-1
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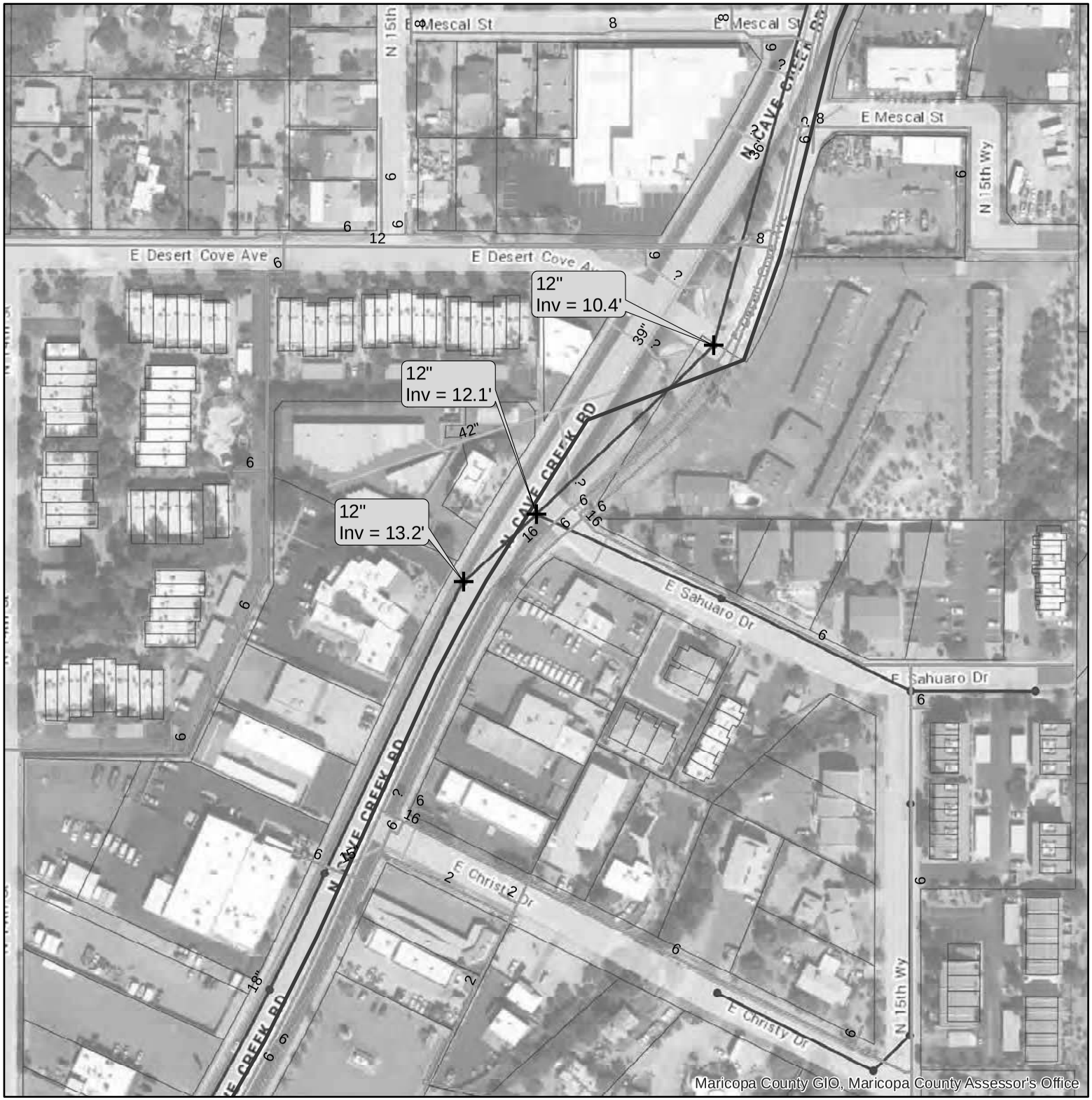
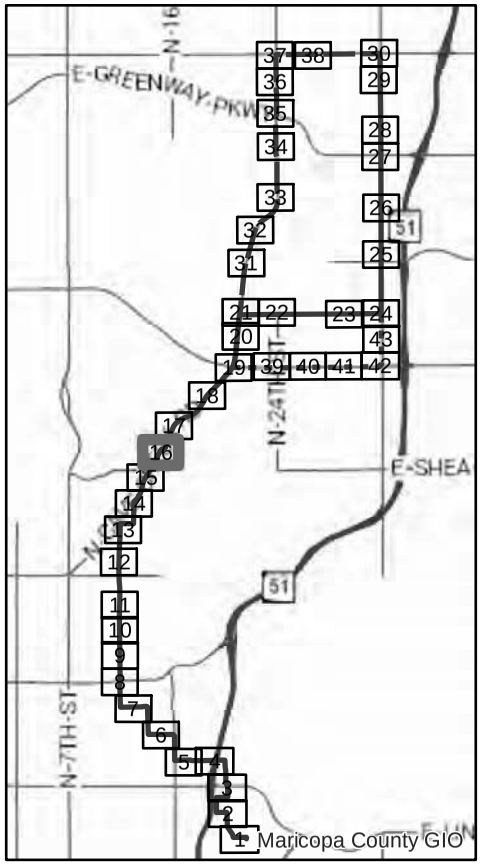
0 50 100 Feet

N

PEC

Sheet 15A of 43





24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

- Alt-1
- Alt-1 Opt-A
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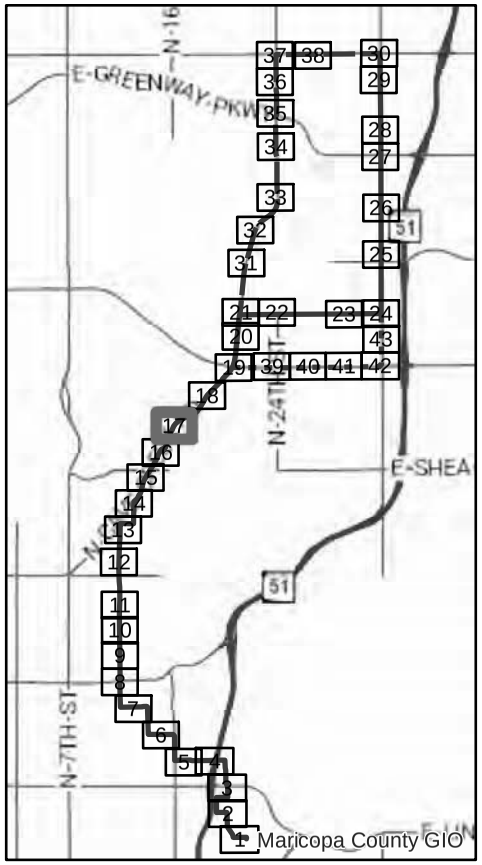
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 16 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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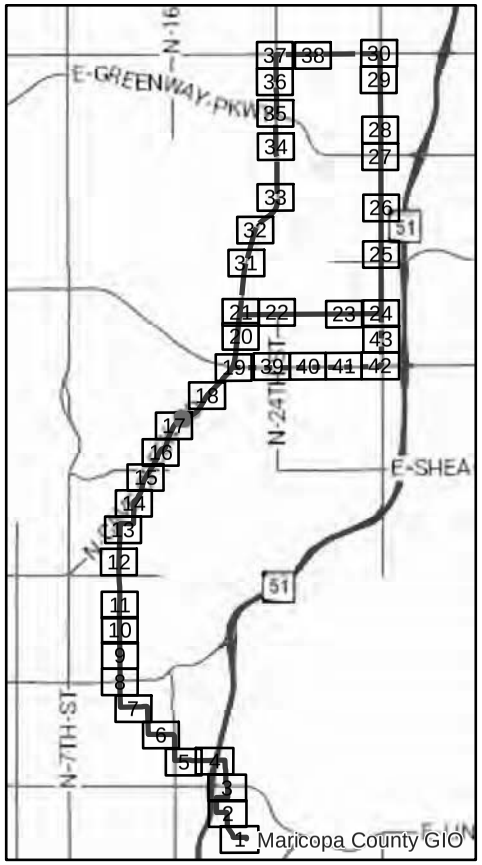
0 100 200 Feet

N

PEC

Sheet 17 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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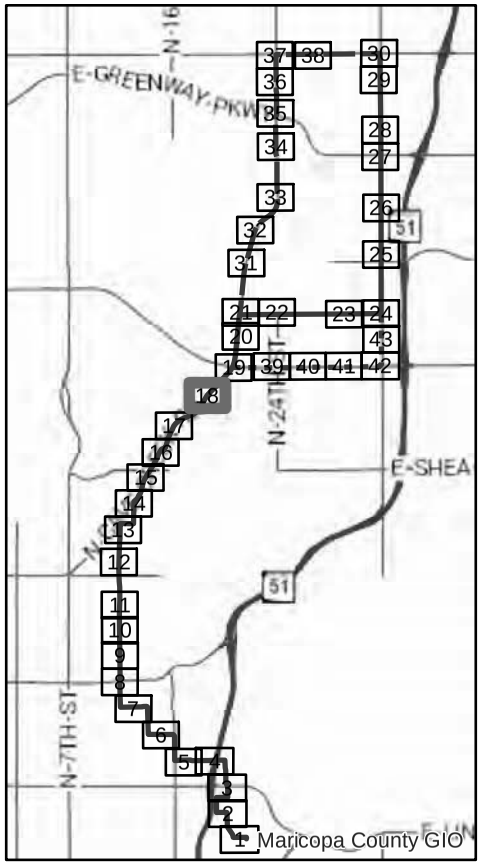
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 17A of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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- Power - OH
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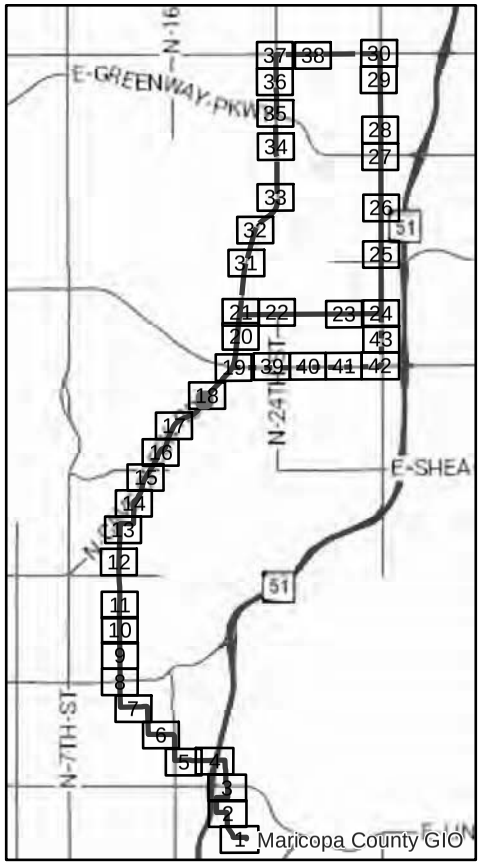
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 18 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

LEGEND

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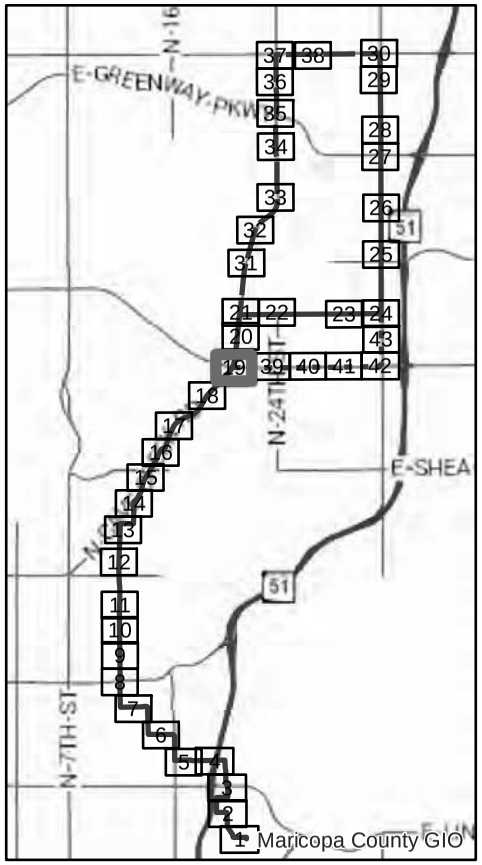
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 18A of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

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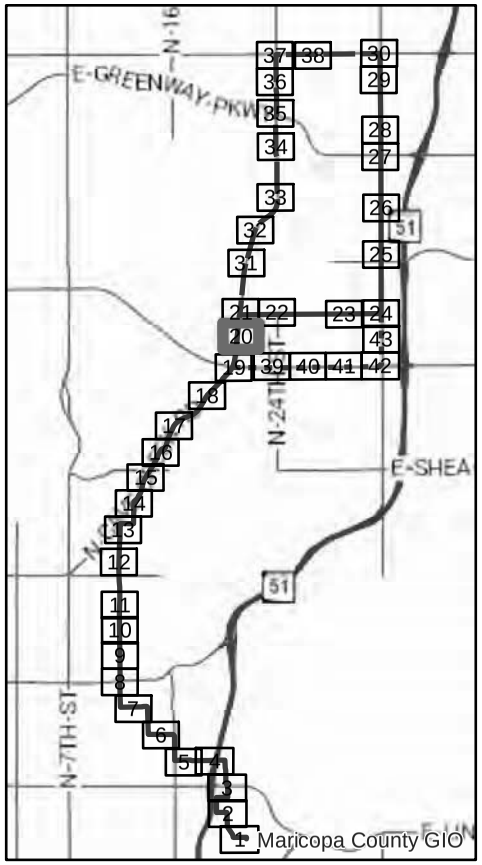
0 100 200 Feet

N

PEC

Sheet 19 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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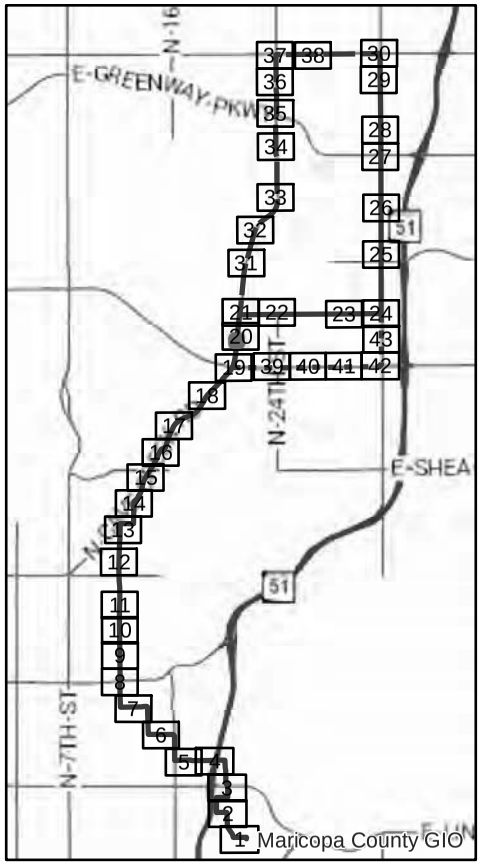
0 100 200 Feet

N

PEC

Sheet 20 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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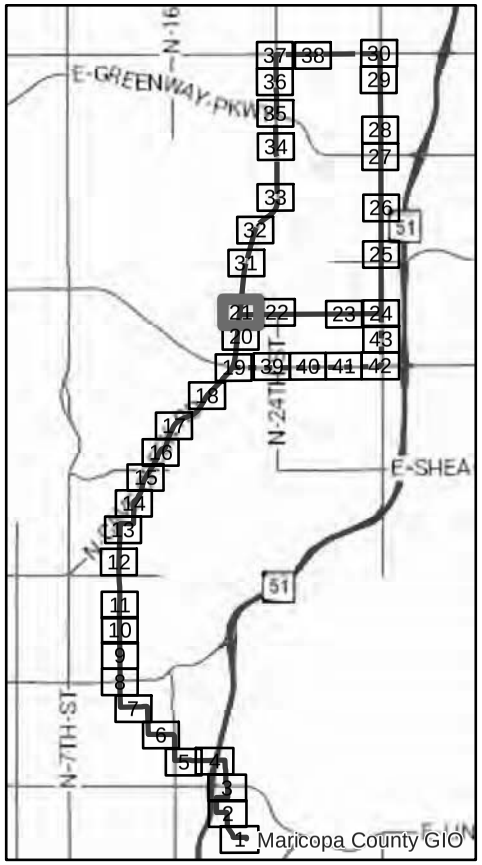
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 20A of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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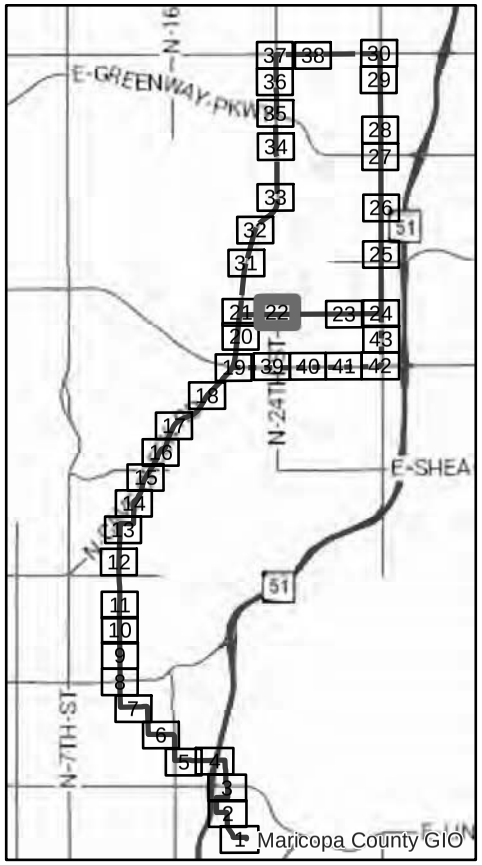
0 100 200 Feet

N

PEC

Sheet 21 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

LEGEND

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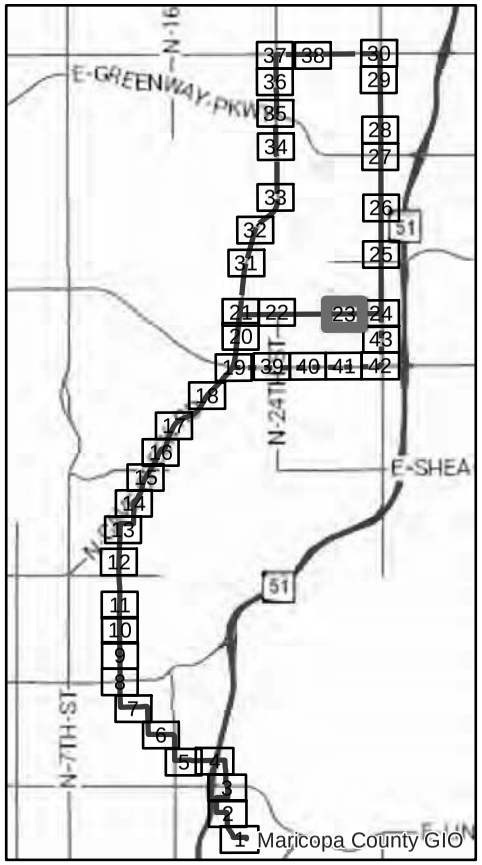
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 22 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

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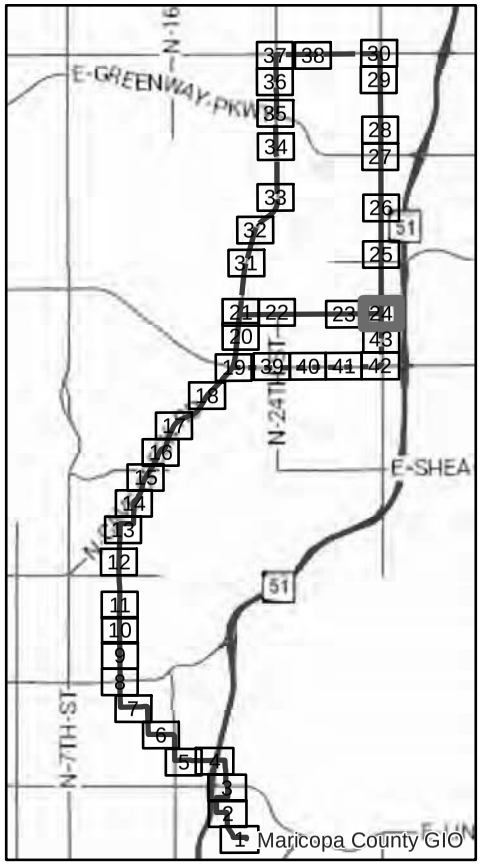
0 100 200 Feet

N

PEC

Sheet 23 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

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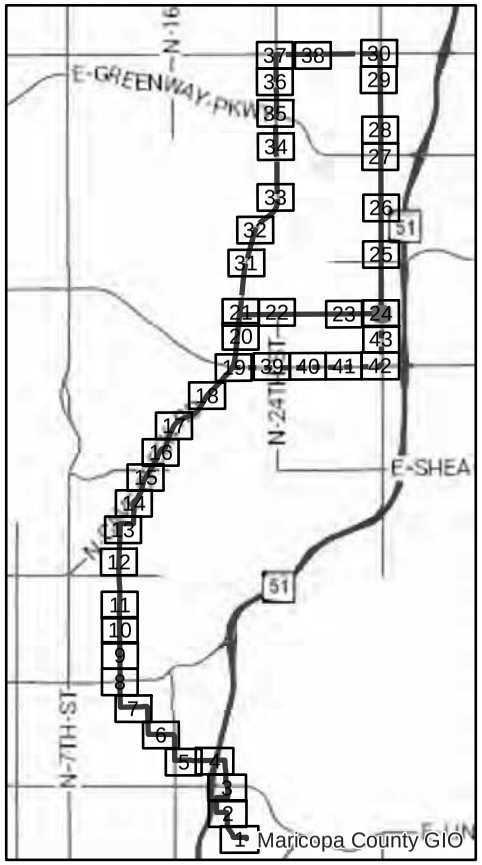
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 24 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

LEGEND

- Alt-1
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- Alt-1 Opt-B
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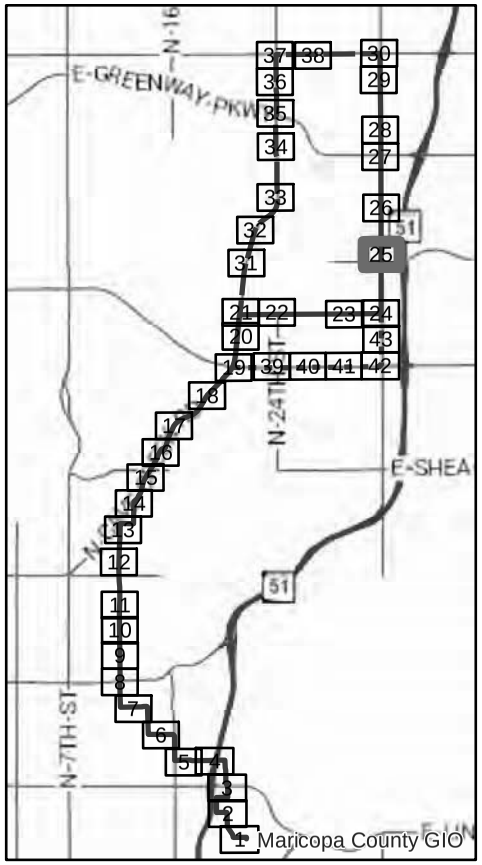
0 50 100 Feet

N

PEC

Sheet 24A of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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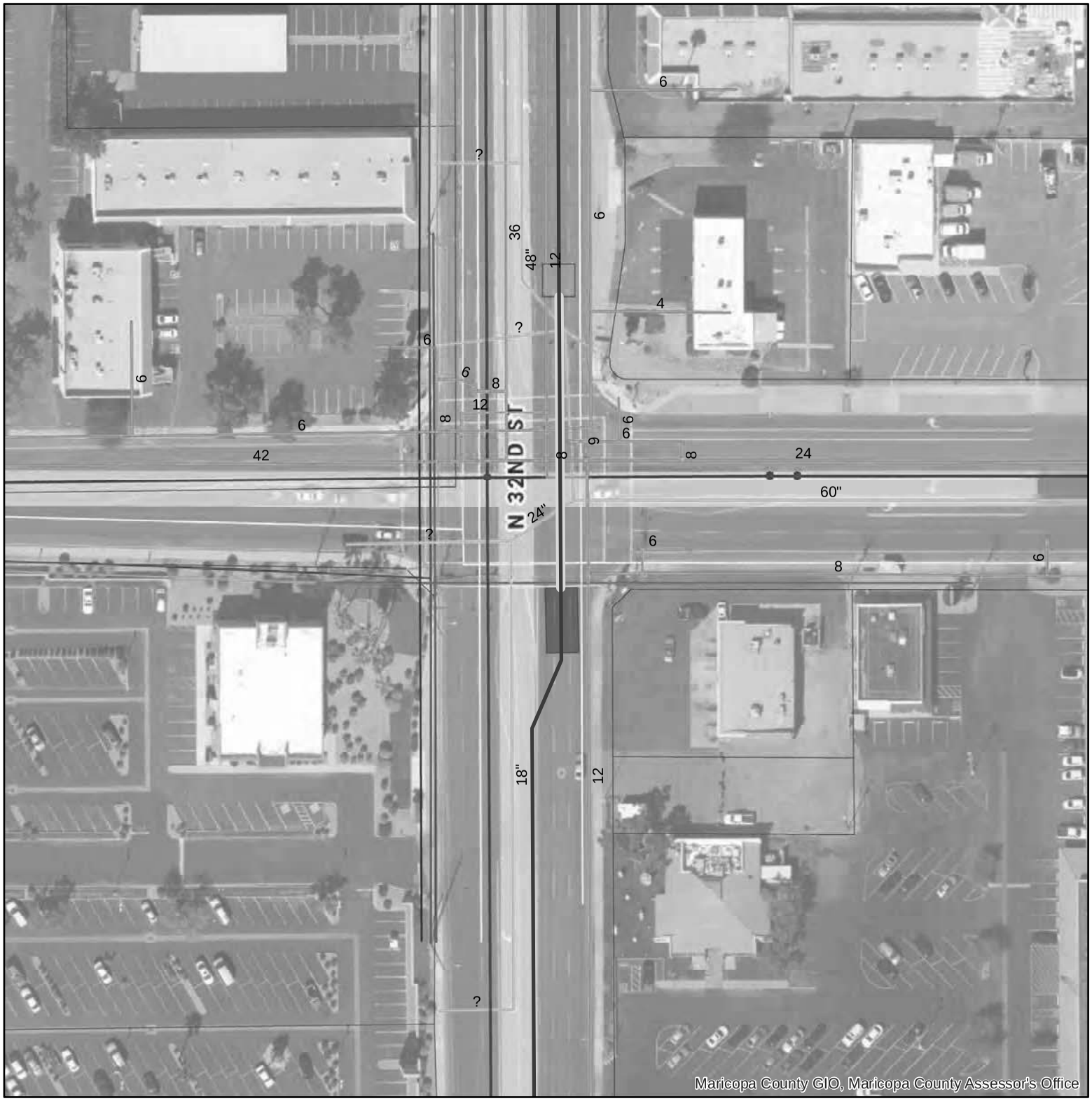
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

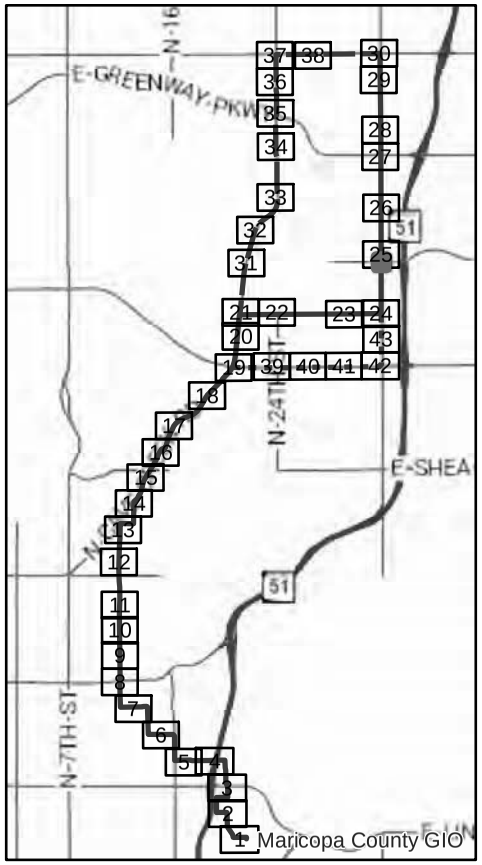
0 100 200 Feet

N

PEC

Sheet 25 of 43





24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

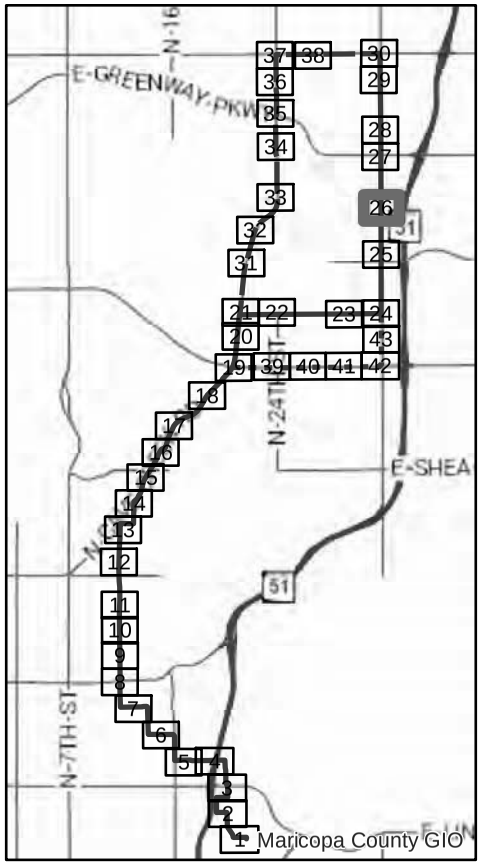
- Alt-1
- Alt-1 Opt-A
- Alt-1 Opt-B
- 84" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 25A of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

LEGEND

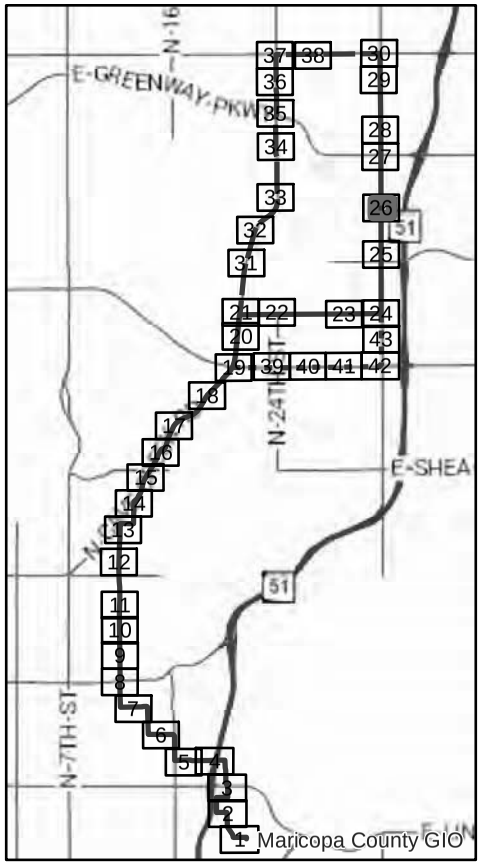
- Alt-1
- Alt-1 Opt-A
- Alt-1 Opt-B
- 72" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 26 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

LEGEND

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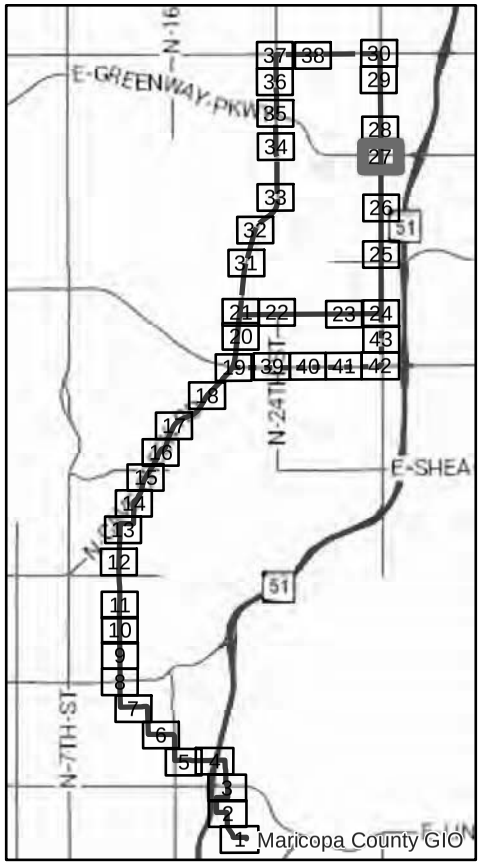
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 26A of 43



24th STREET
WATERLINE ALIGNMENT STUDY
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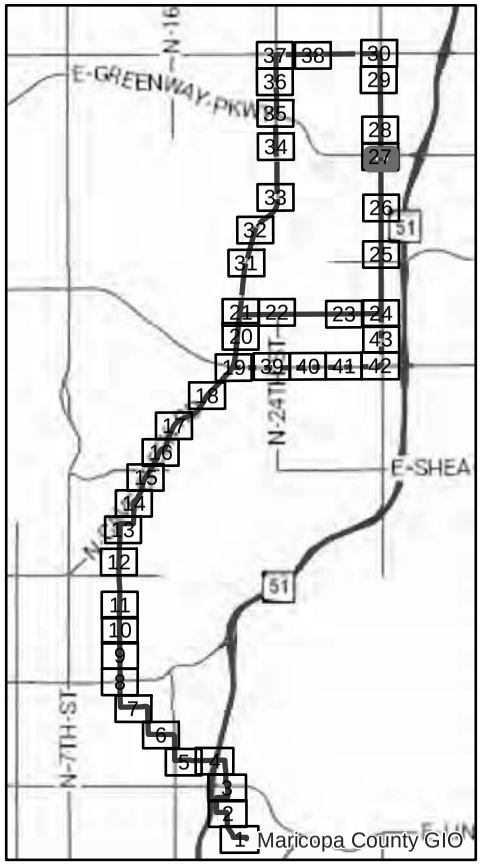
0 100 200 Feet

N

PEC

Sheet 27 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

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- Power - OH
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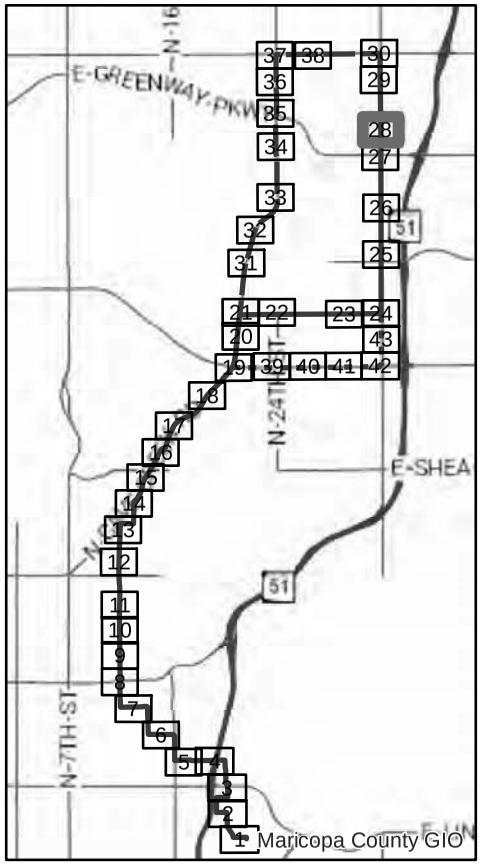
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 27A of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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- Power - OH
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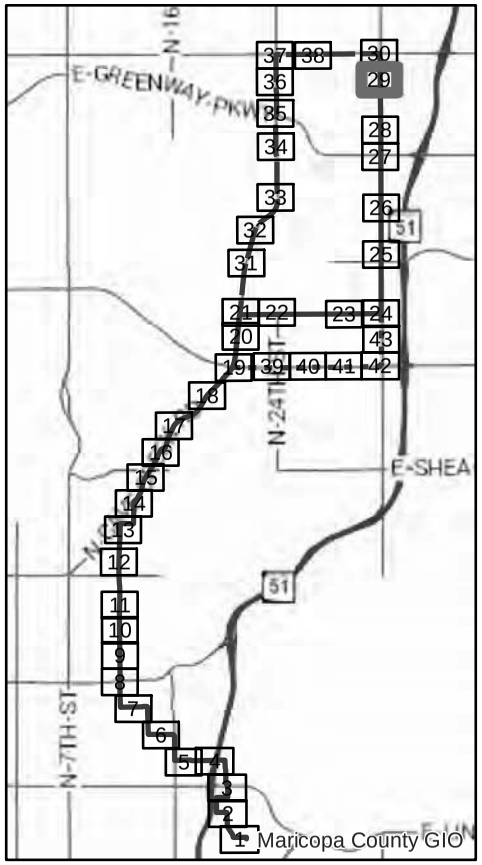
0 100 200 Feet

N

PEC

Sheet 28 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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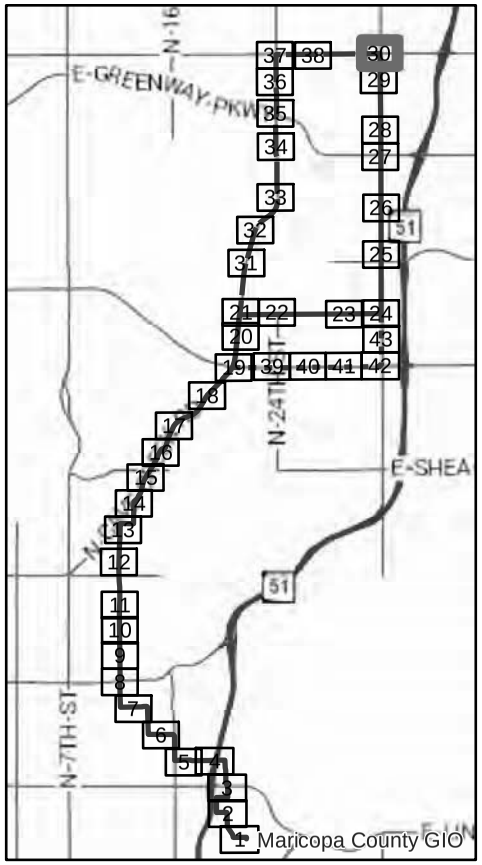
0 100 200 Feet

N

PEC

Sheet 29 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

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- Cox
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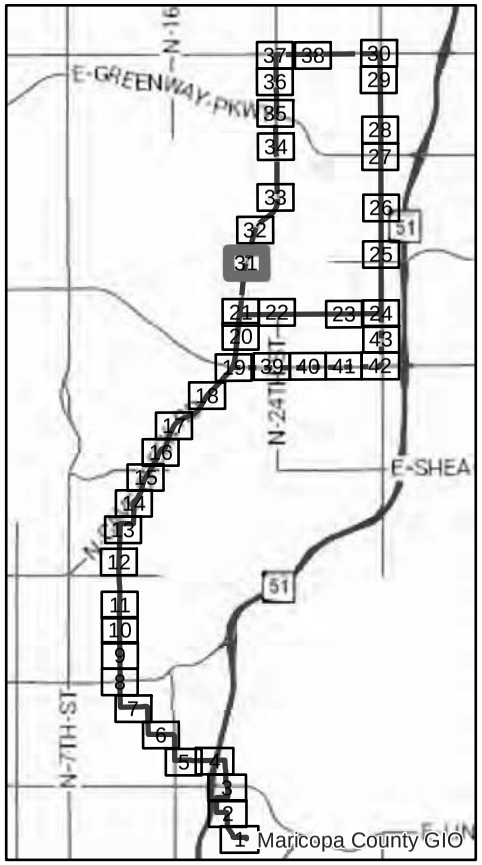
0 100 200 Feet

N

PEC

Sheet 30 of 43



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- Power - OH
- Gas
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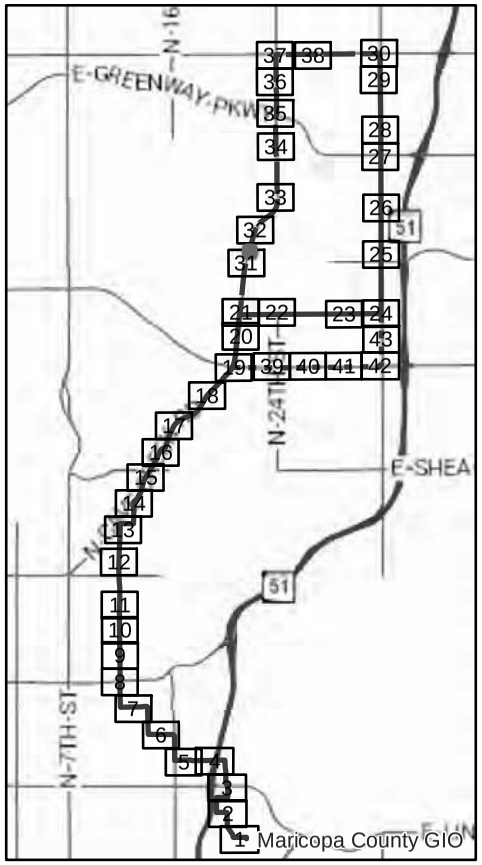
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 31 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 1

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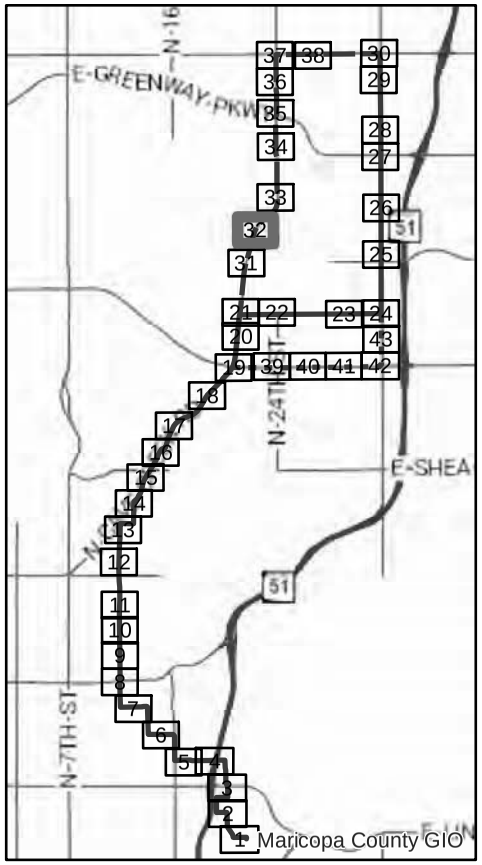
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 31A of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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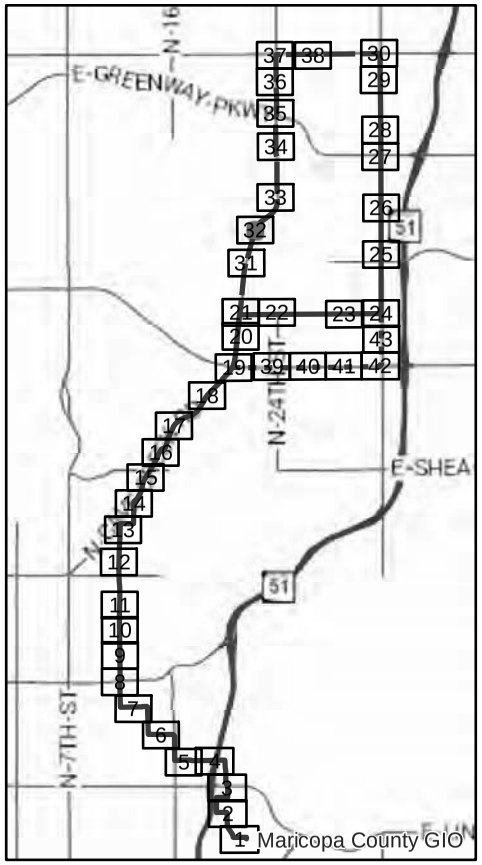
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 32 of 43



24th STREET
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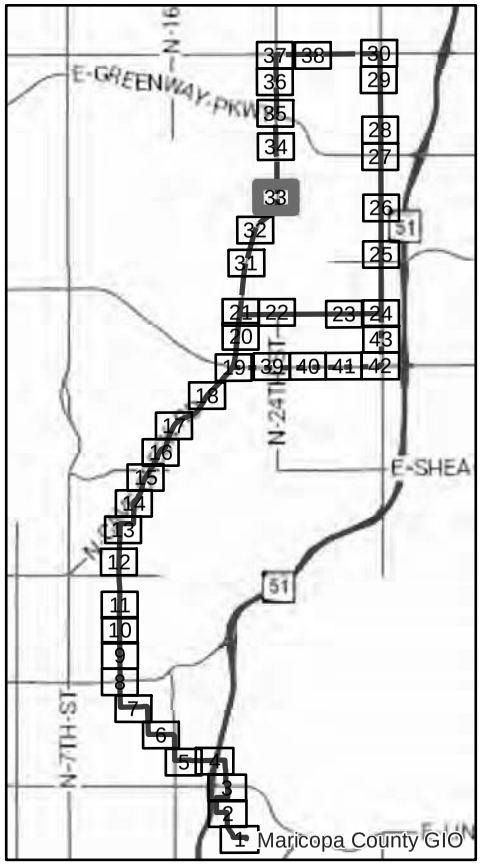
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 32A of 43



24th STREET
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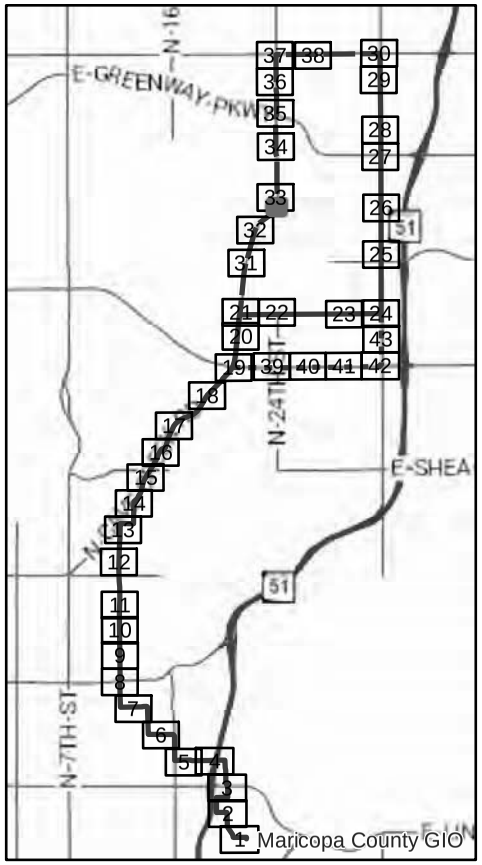
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 33 of 43



24th STREET
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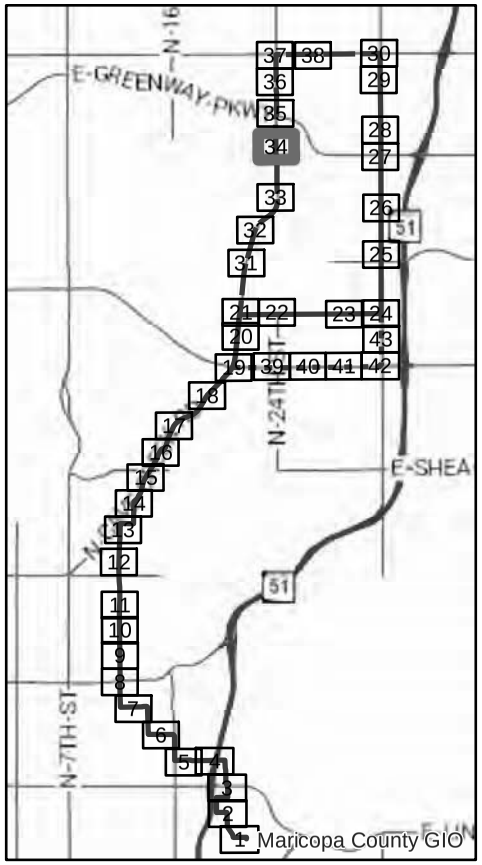
0 50 100 Feet

N

PEC

Sheet 33A of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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- Alt-1
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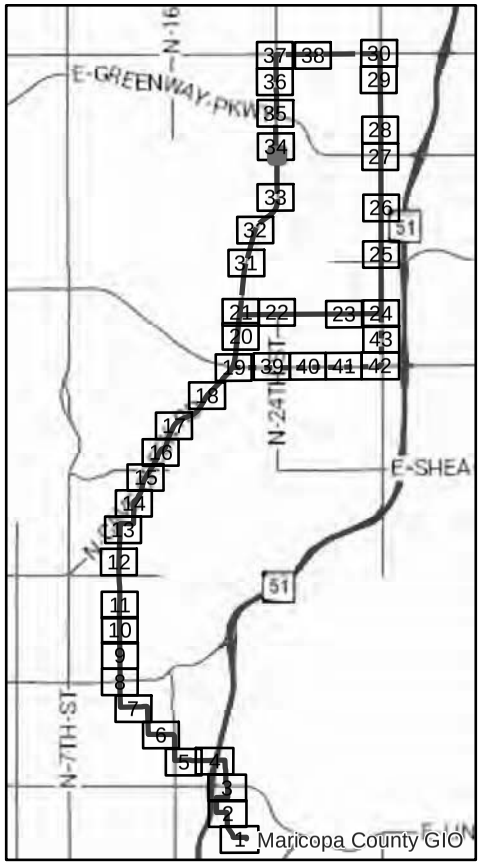
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 34 of 43



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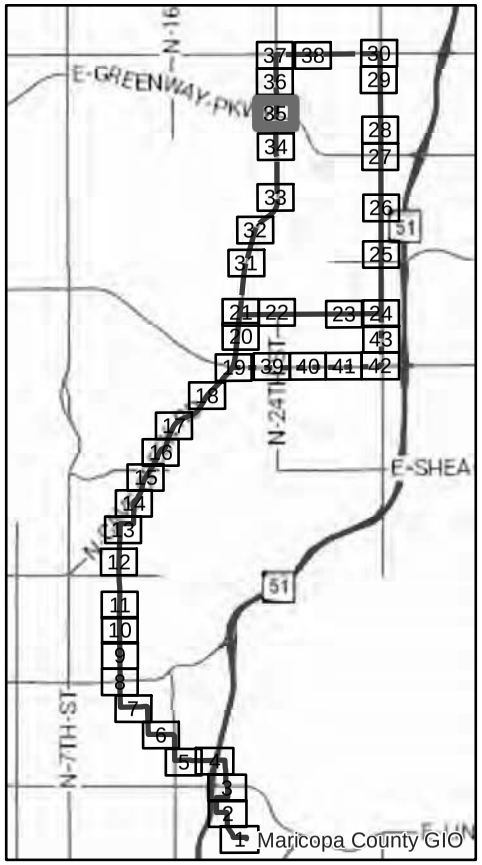
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 34A of 43



24th STREET
WATERLINE ALIGNMENT STUDY
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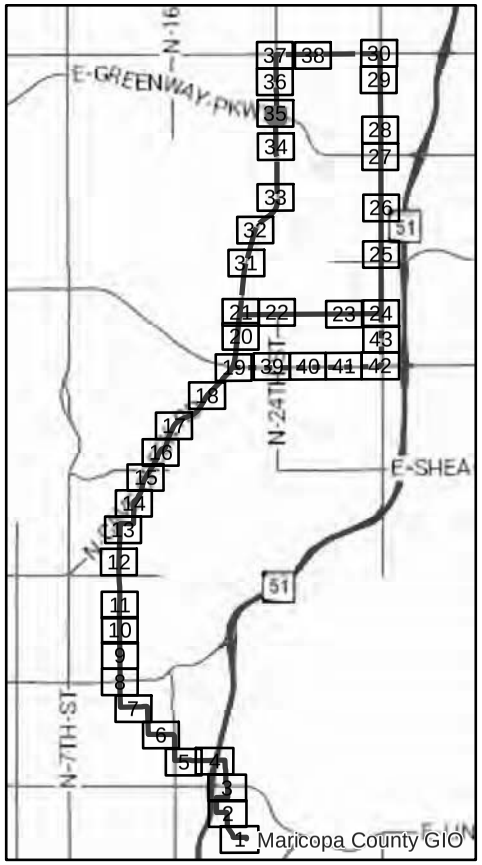
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 35 of 43



24th STREET
WATERLINE ALIGNMENT STUDY
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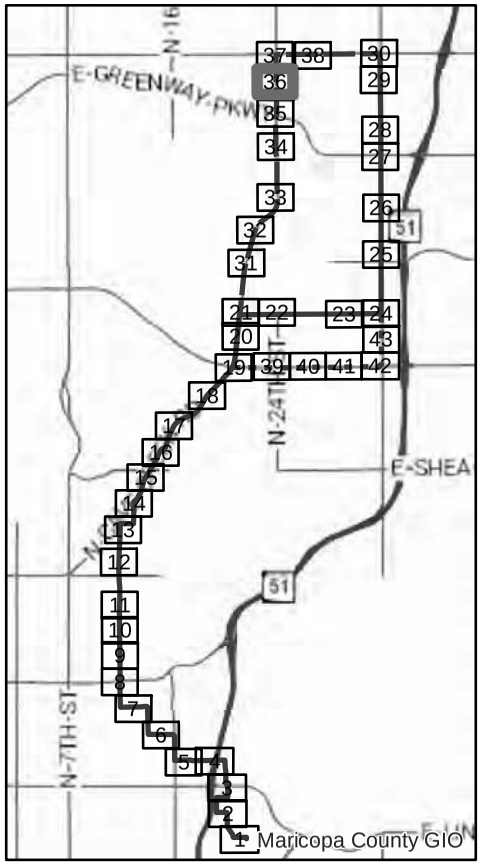
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 35A of 43



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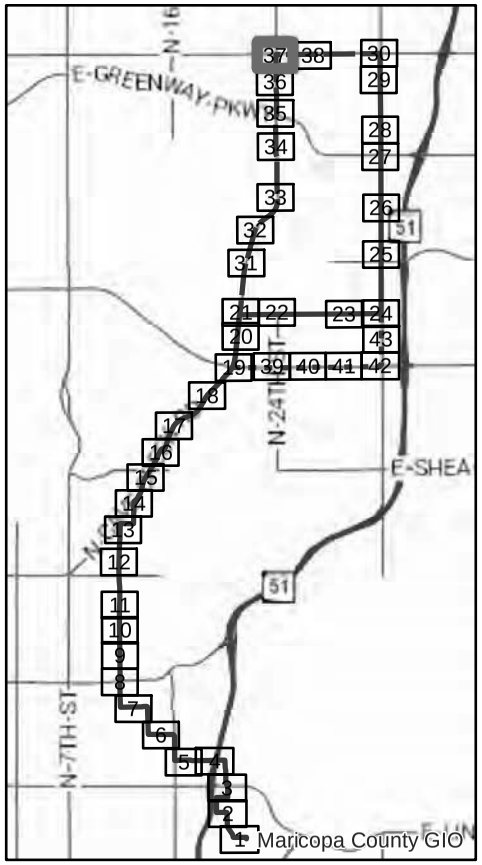
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 36 of 43



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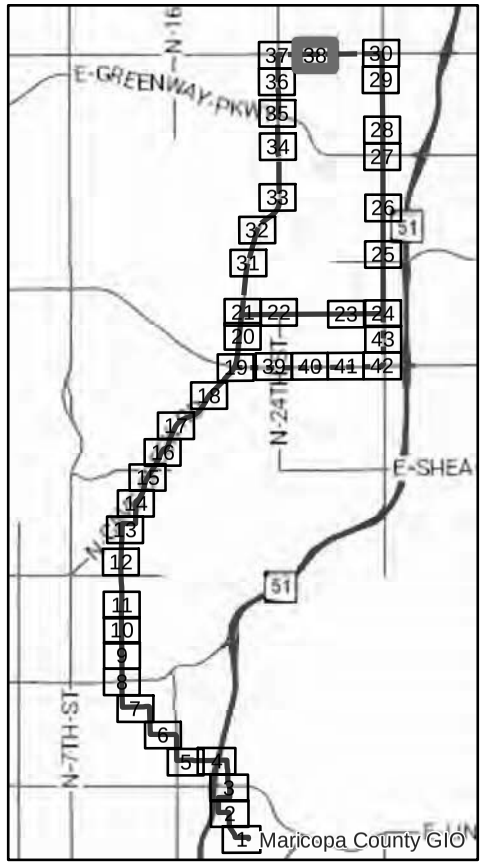
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 37 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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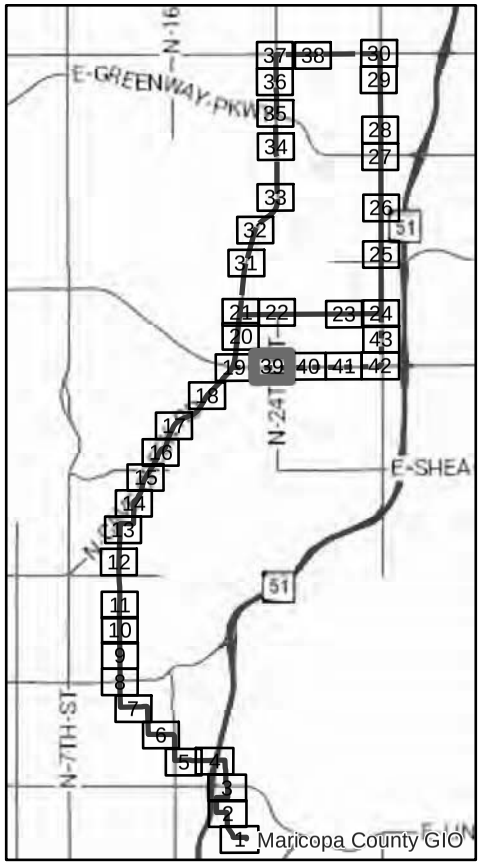
N

PEC

Sheet 38 of 43



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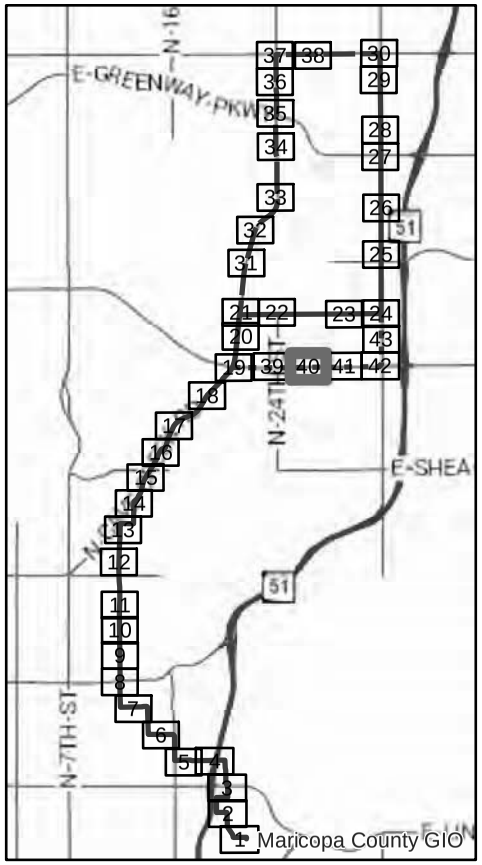
0 100 200 Feet

N

PEC

Sheet 39 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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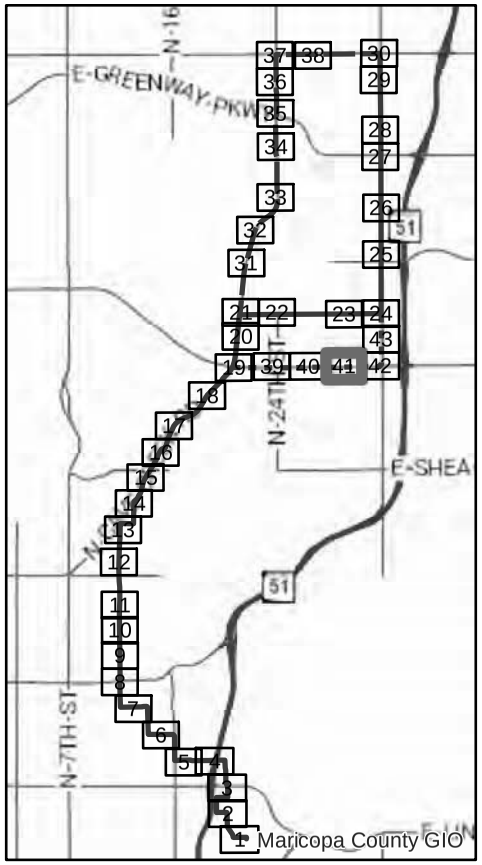
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 40 of 43



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 1

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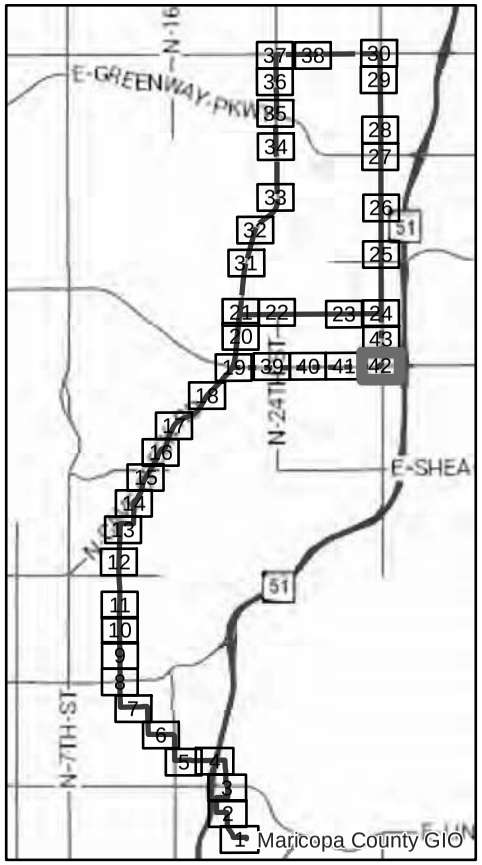
N

PEC

Sheet 41 of 43



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WATERLINE ALIGNMENT STUDY
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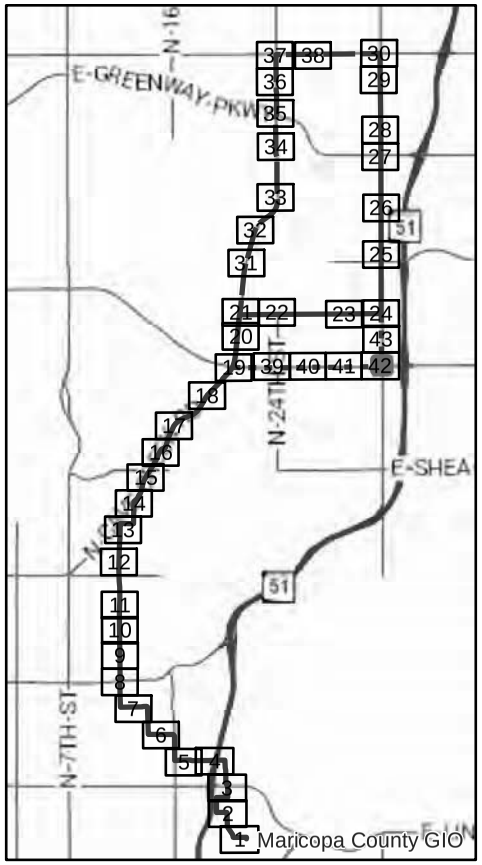
N

PEC

Sheet 42 of 43



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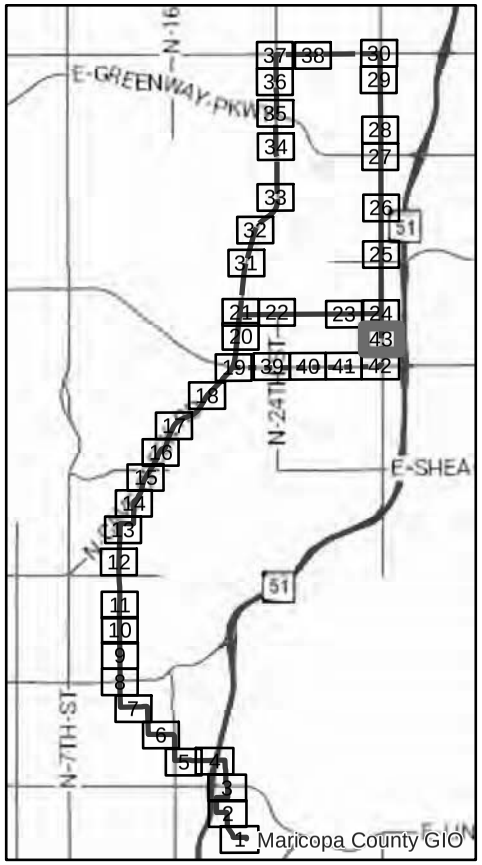
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 42A of 43



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- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

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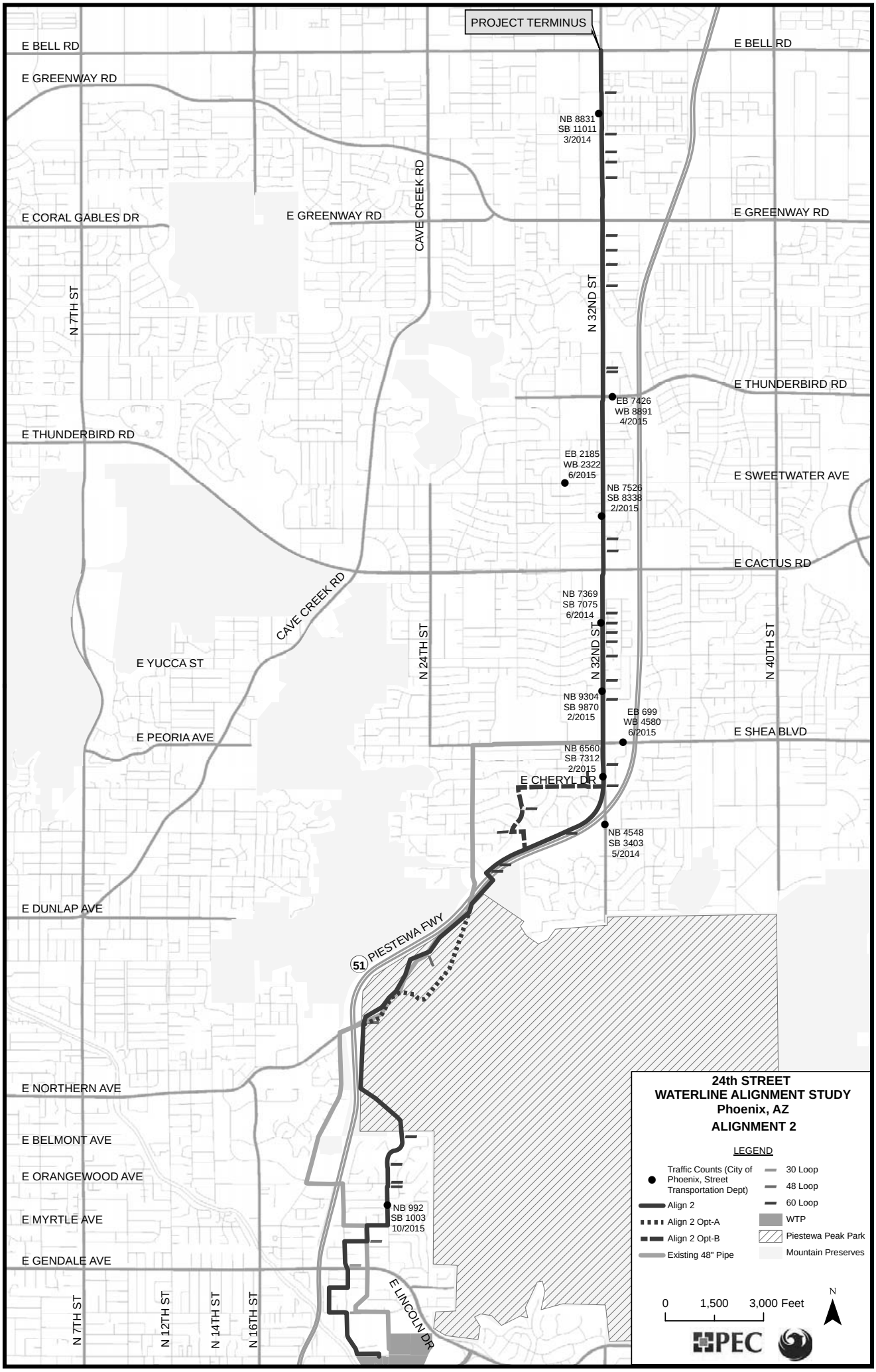
PEC

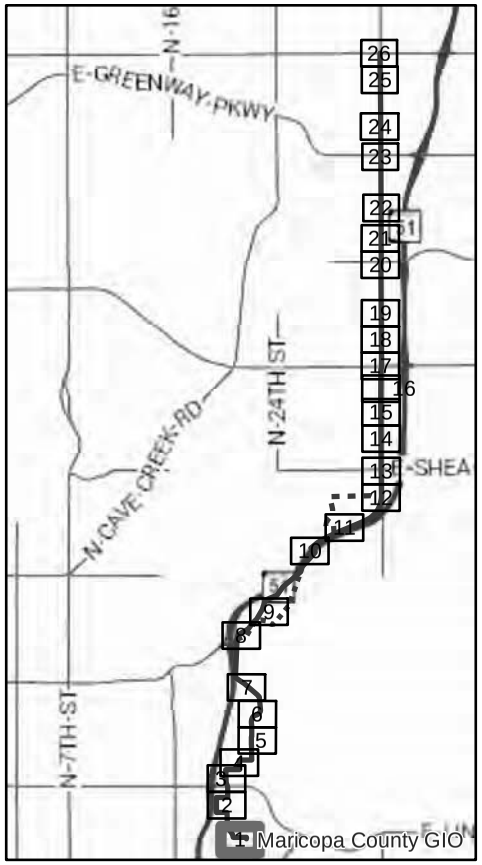
Sheet 43 of 43

Appendix B

Alignment 2 Mapping

PEC
PROJECT ENGINEERING CONSULTANTS


PROJECT TERMINUS
E BELL RD
E BELL RD
E GREENWAY RD
NB 8831
SB 11011
3/2014
CAVE CREEK RD
E CORAL GABLES DR
E GREENWAY RD
E GREENWAY RD
N 7TH ST
N 32ND ST
E THUNDERBIRD RD
EB 7426
WB 8891
4/2015
E THUNDERBIRD RD
EB 2185
WB 2322
6/2015
E SWEETWATER AVE
NB 7526
SB 8338
2/2015
E CACTUS RD
NB 7369
SB 7075
6/2014
CAVE CREEK RD
N 24TH ST
N 32ND ST
N 40TH ST
E YUCCA ST
NB 9304
SB 9870
2/2015
EB 699
WB 4580
6/2015
E PEORIA AVE
E SHEA BLVD
NB 6560
SB 7312
2/2015
E CHERYL DR
NB 4548
SB 3403
5/2014
E DUNLAP AVE
51
PIESTEWA FWY
E NORTHERN AVE
E BELMONT AVE
E ORANGEWOOD AVE
NB 992
SB 1003
10/2015
E MYRTLE AVE
E GENDALE AVE
N 7TH ST
N 12TH ST
N 14TH ST
N 16TH ST
E LINCOLN DR
24th STREET
WATERLINE ALIGNMENT STUDY
Phoenix, AZ
ALIGNMENT 2
LEGEND
Traffic Counts (City of Phoenix, Street Transportation Dept)
Align 2
Align 2 Opt-A
Align 2 Opt-B
Existing 48" Pipe
30 Loop
48 Loop
60 Loop
WTP
Piestewa Peak Park
Mountain Preserves
0
1,500
3,000 Feet
N
PEC



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

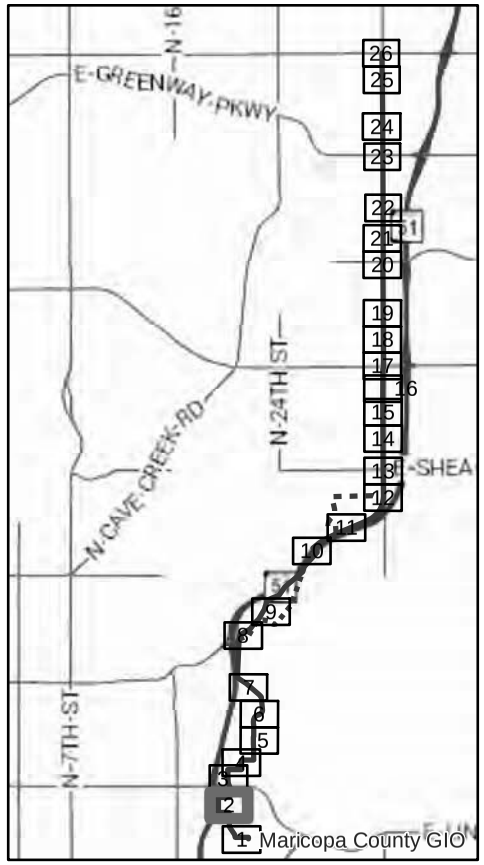
- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
- 84" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 1 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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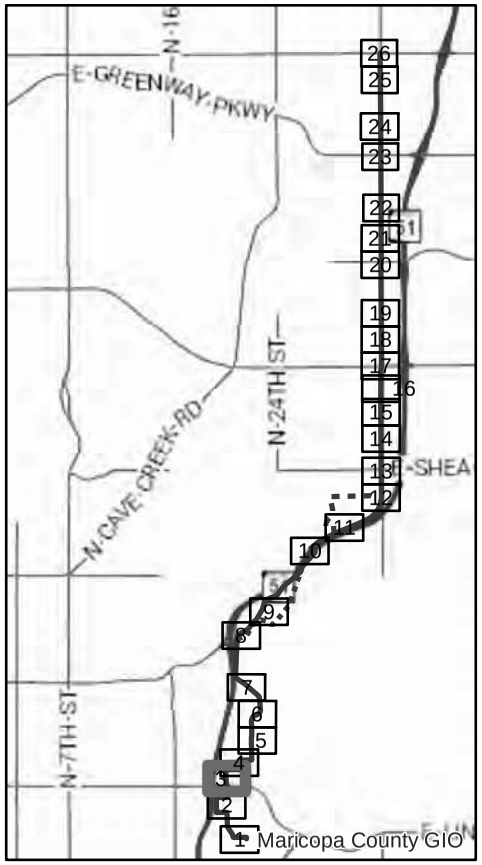
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 2 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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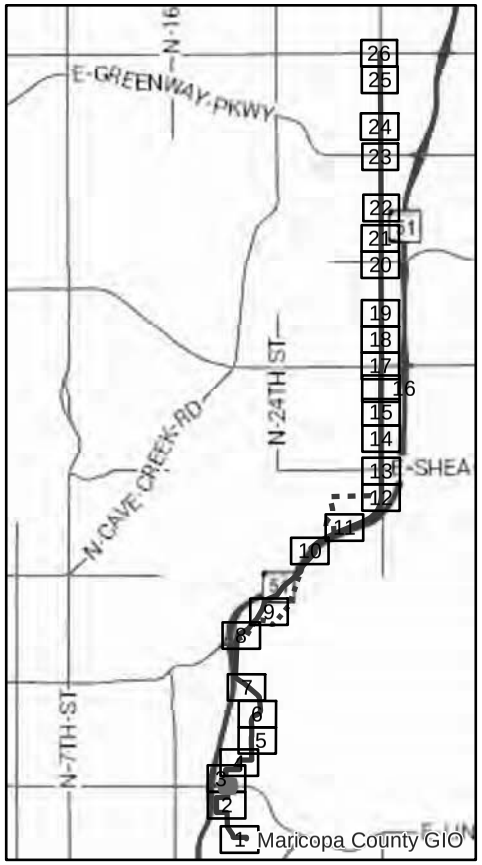
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 3 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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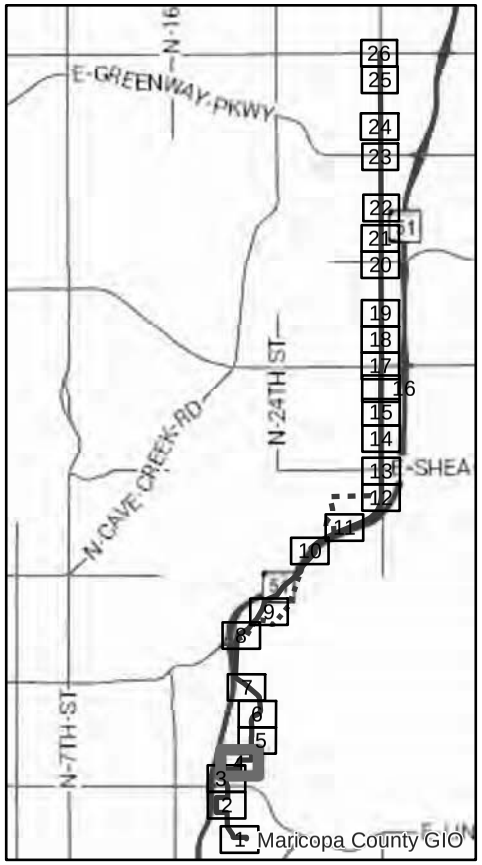
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 3A of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

- Alt-2
- Alt 2 Opt-A
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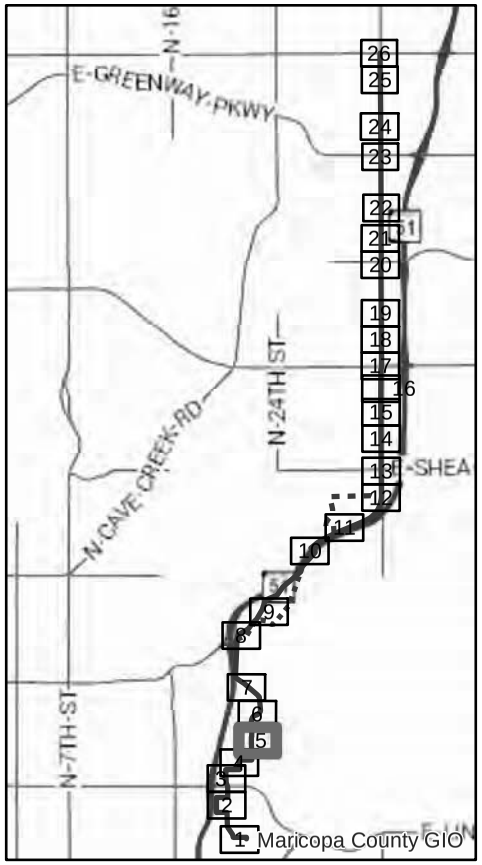
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 4 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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- Alt 2 Opt-A
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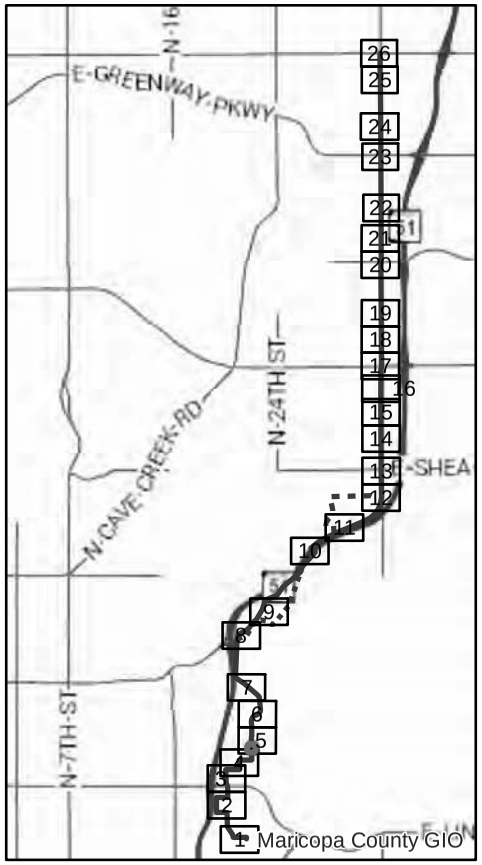
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 5 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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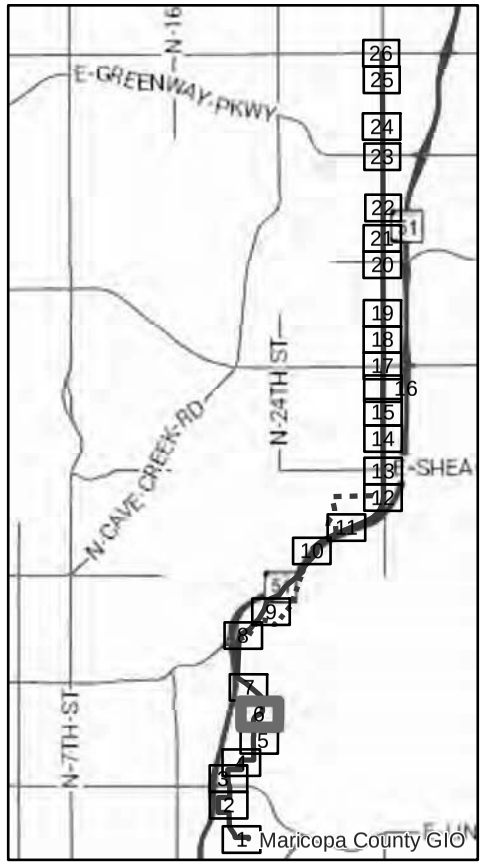
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 5A of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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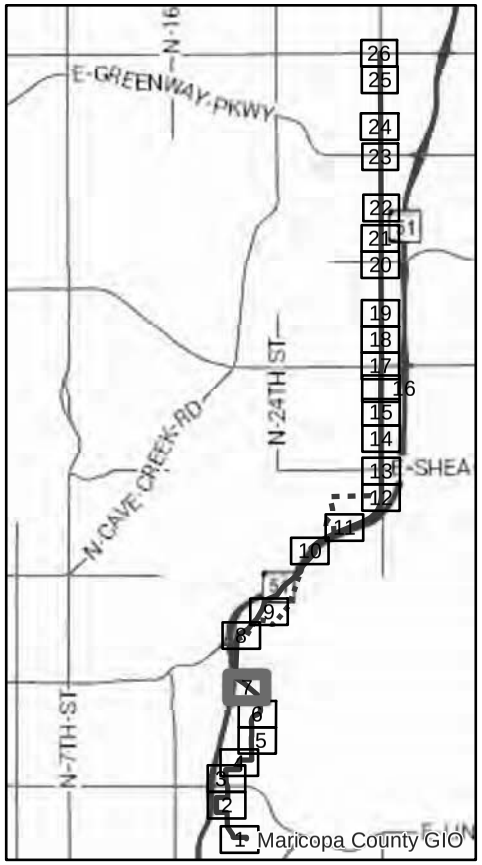
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 6 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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- Alt 2 Opt-A
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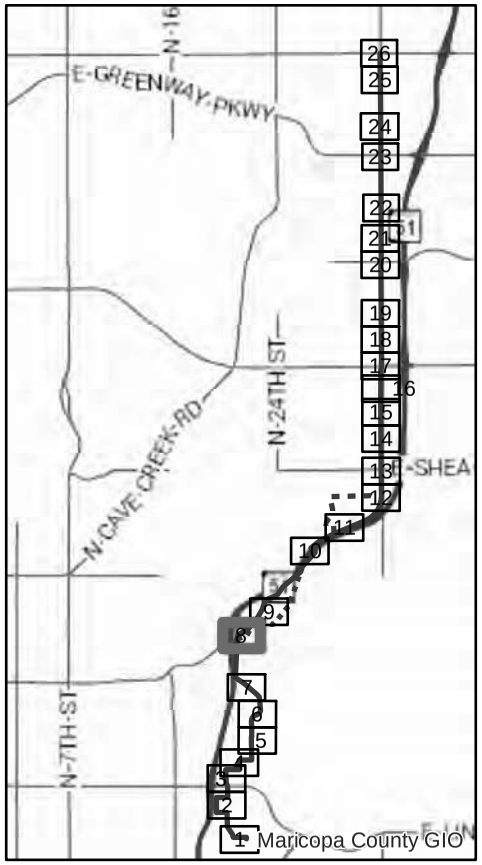
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 7 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
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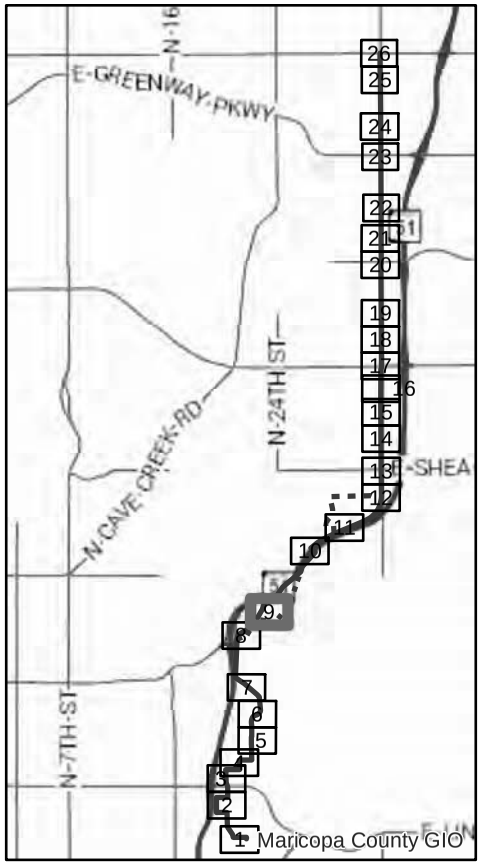
- Sewer Manhole
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 8 of 26



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 2

LEGEND

- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
- 84" Jack & Bore
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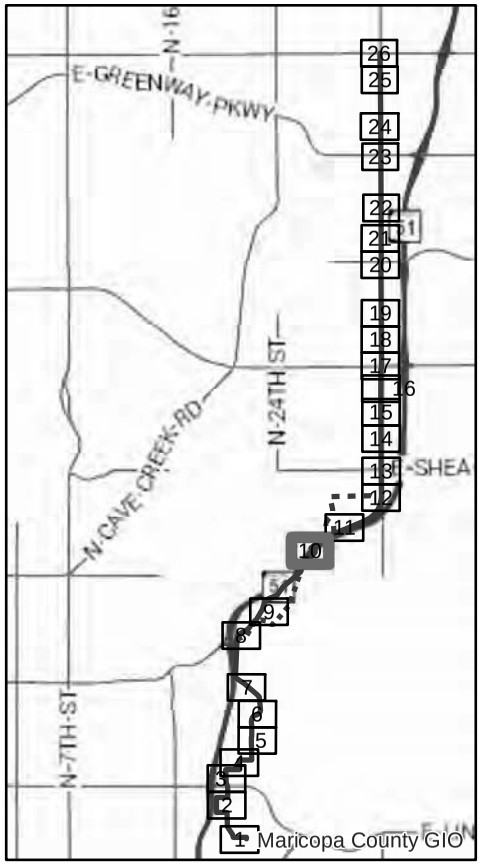
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 9 of 26



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 2

LEGEND

- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
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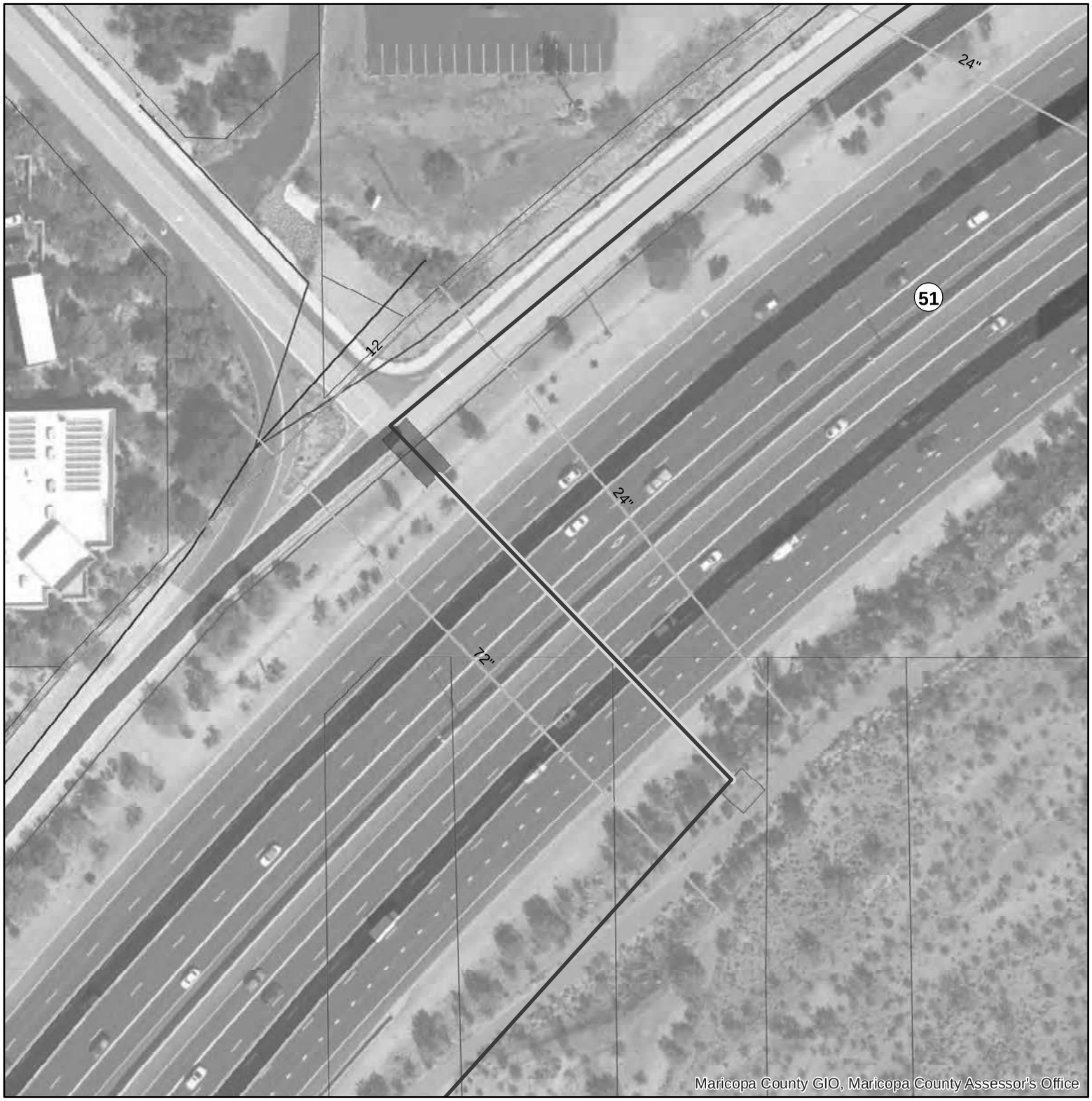
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

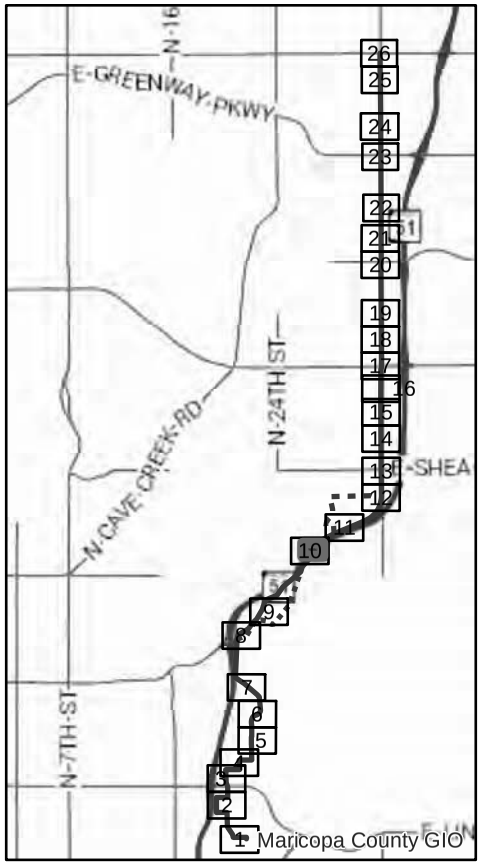
0 100 200 Feet

N

PEC

Sheet 10 of 26





24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

- Alt-2
- Alt 2 Opt-A
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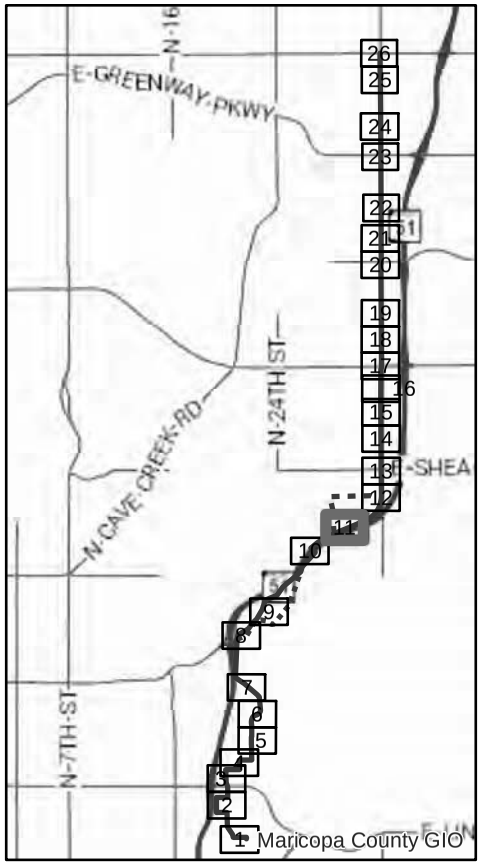
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 10A of 26



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 2

LEGEND

- Alt-2
- Alt 2 Opt-A
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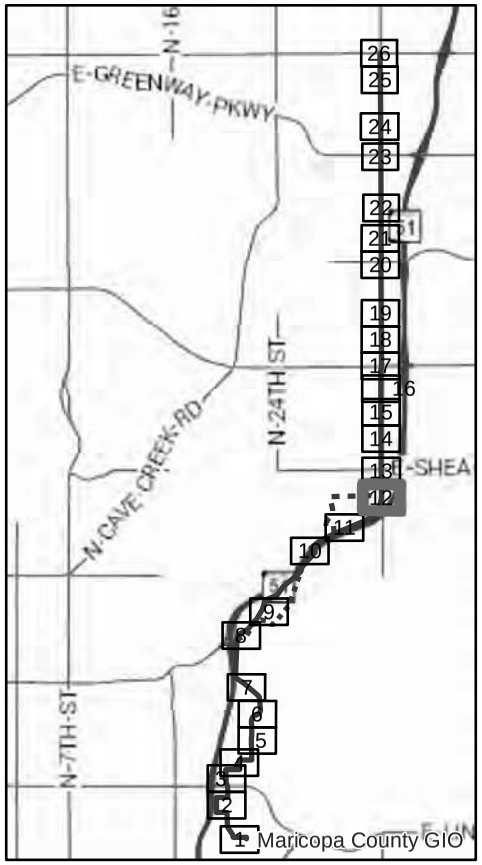
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 11 of 26



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 2

LEGEND

- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
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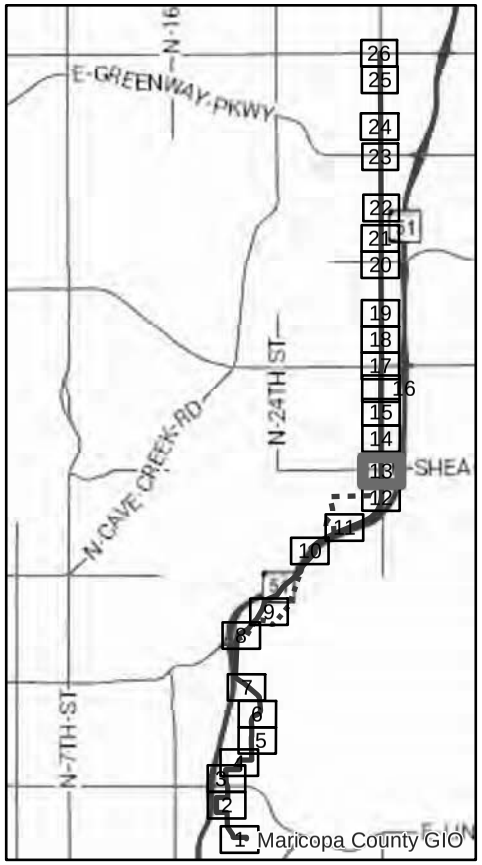
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 12 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
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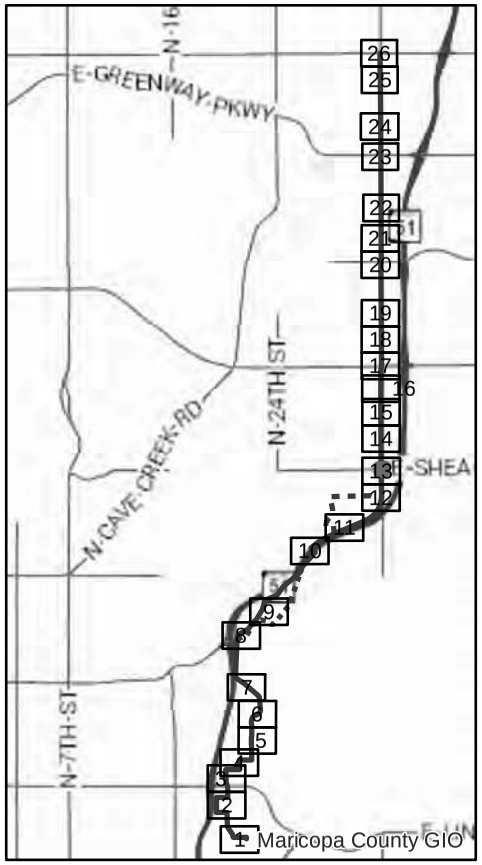
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 13 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

- Alt-2
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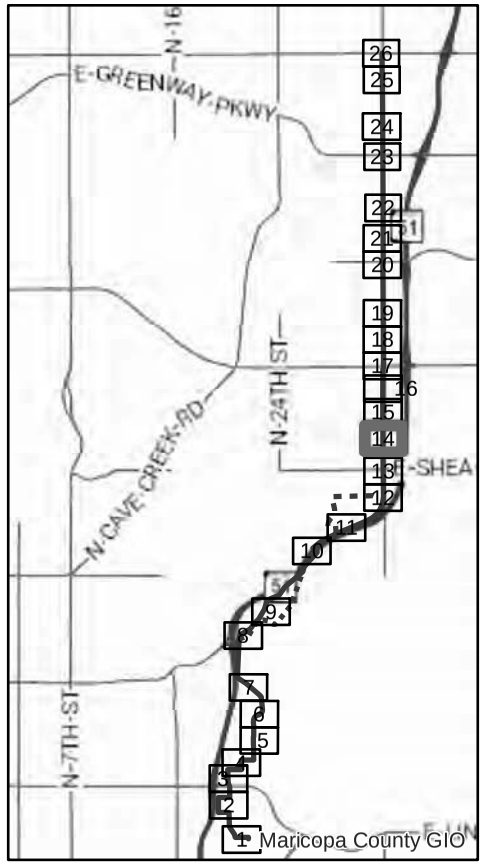
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 13A of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

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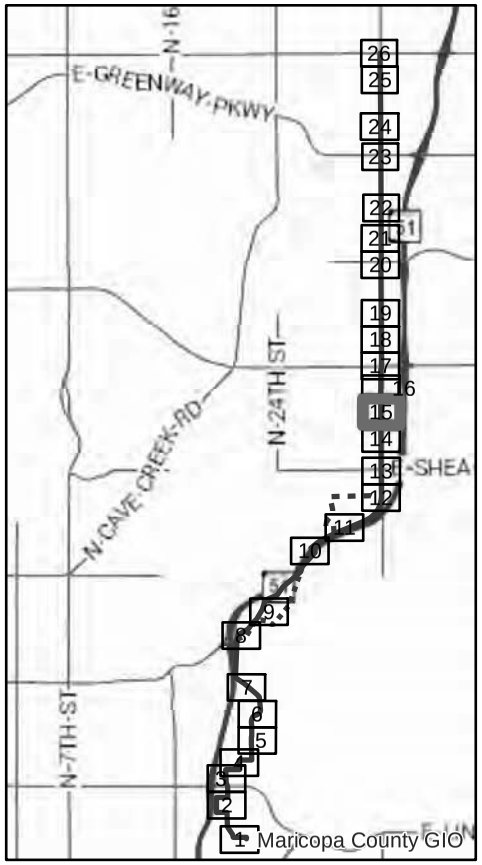
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 14 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

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- Cox
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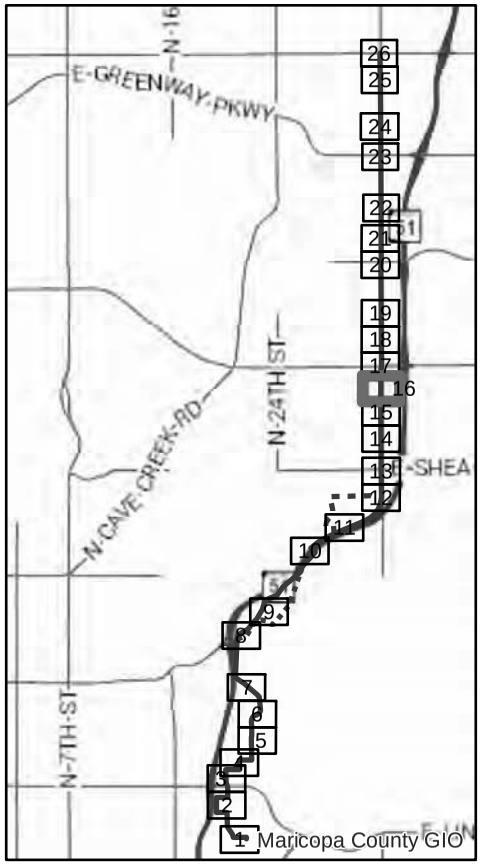
0 100 200 Feet

N

PEC

Sheet 15 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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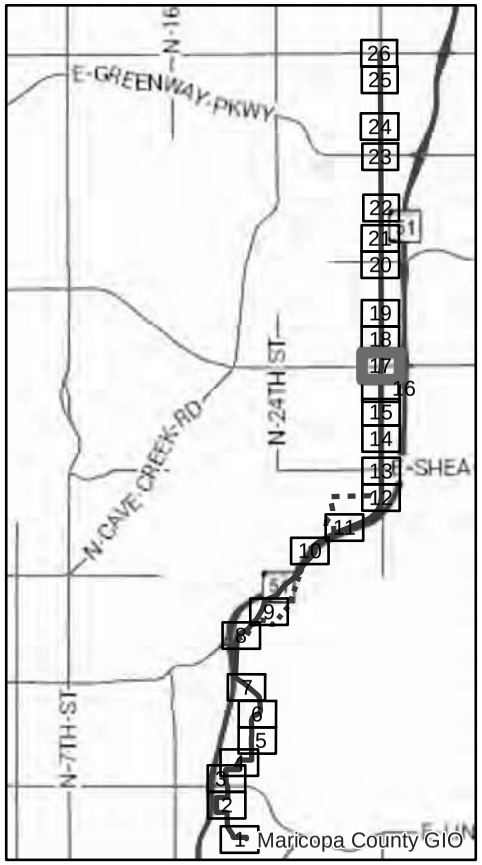
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 16 of 26



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 2

LEGEND

- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
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- Teleport
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- Power - OH
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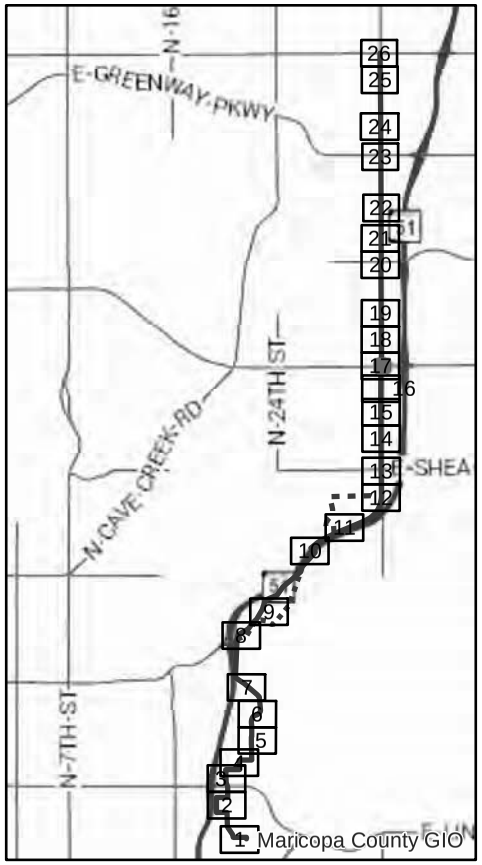
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 17 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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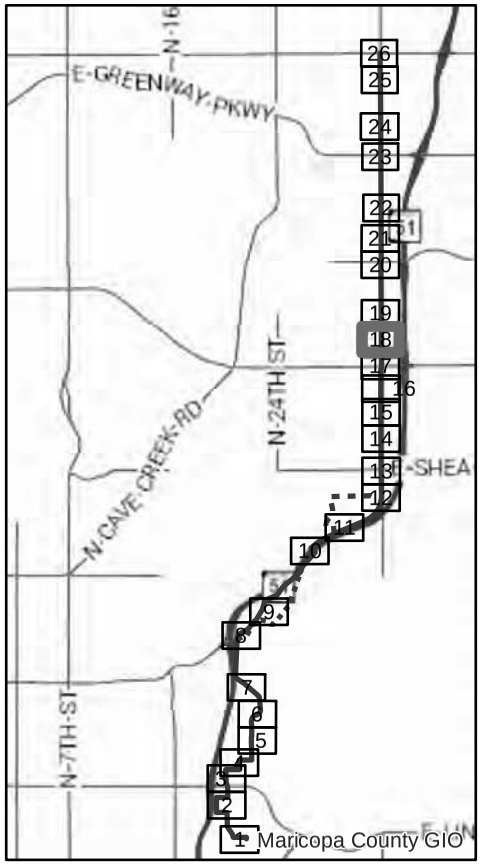
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 17A of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

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0 100 200 Feet

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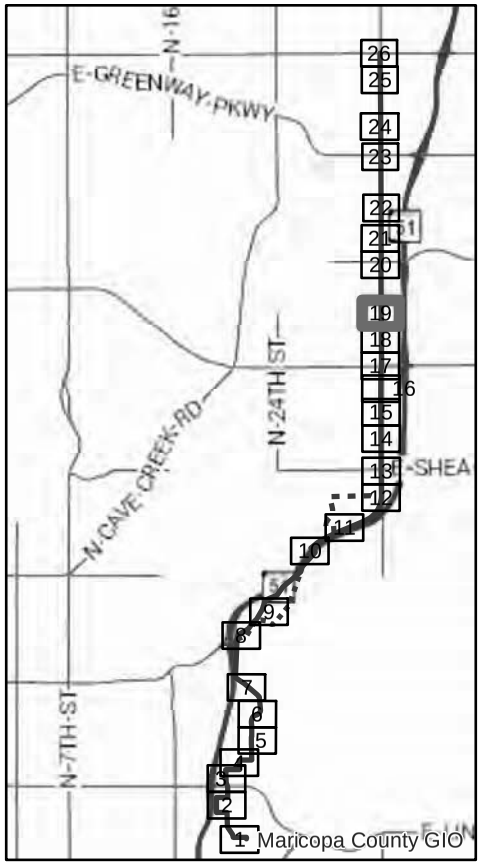
PEC



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 2

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- Power - OH
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- Cox
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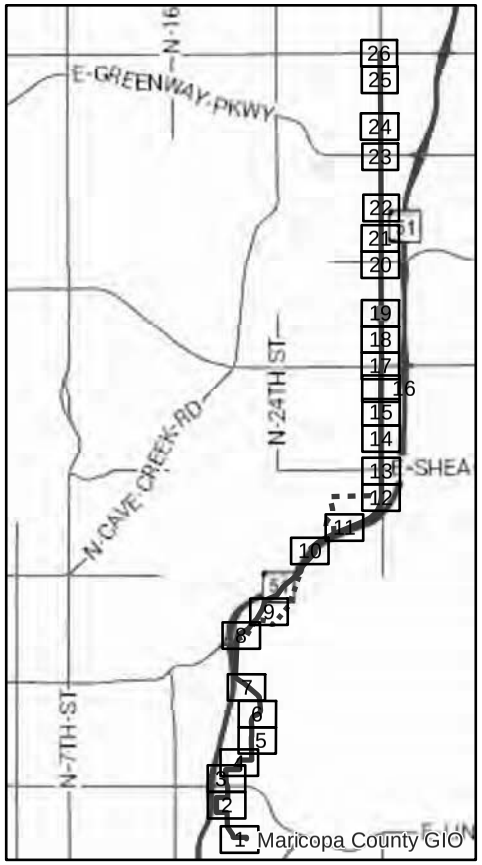
0 100 200 Feet

N

PEC

Sheet 19 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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- Power - OH
- Gas
- Cox - UG
- Cox
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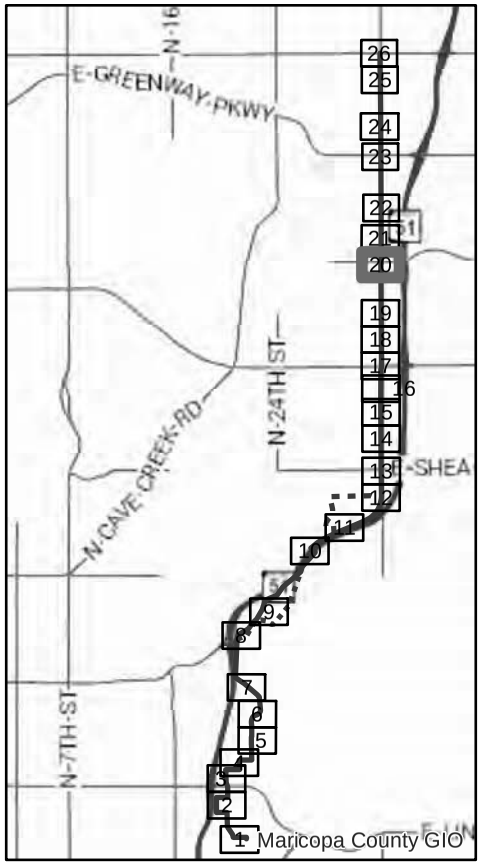
0 50 100 Feet

N

PEC

Sheet 19A of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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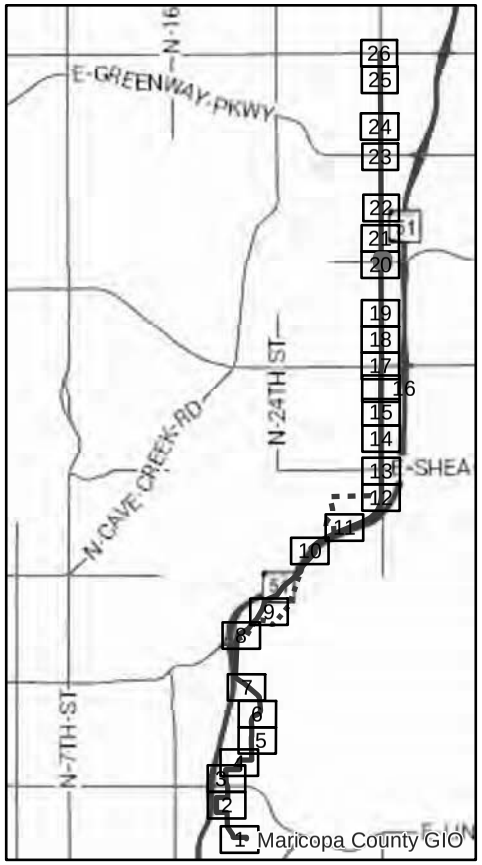
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 20 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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- Teleport
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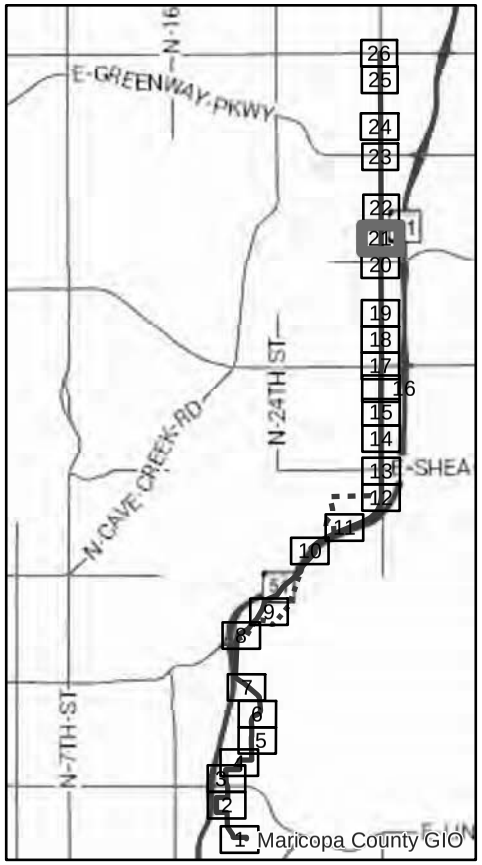
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 20A of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

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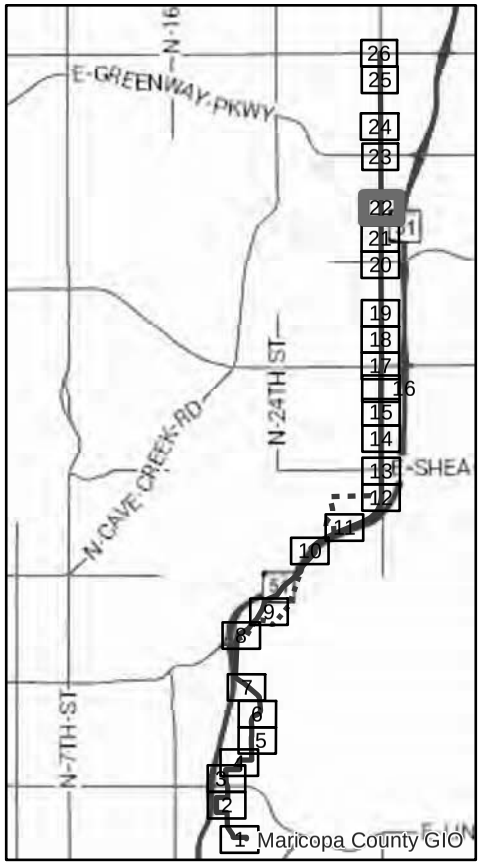
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 21 of 26



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 2

LEGEND

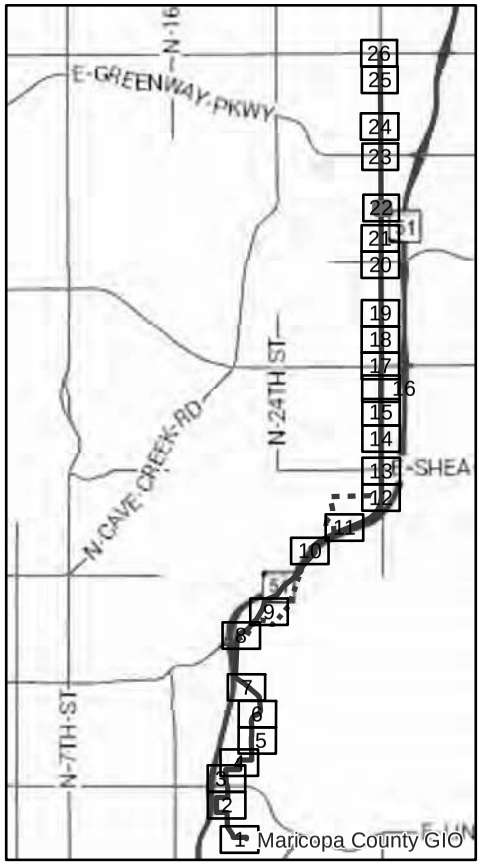
- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
- 84" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 22 of 26



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 2

LEGEND

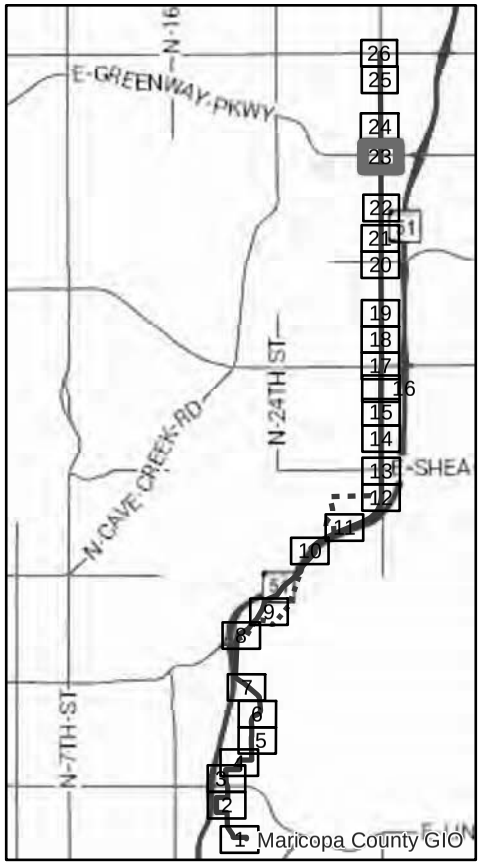
- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
- 84" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 22A of 26



24th STREET
WATERLINE ALIGNMENT STUDY
ALIGNMENT 2

LEGEND

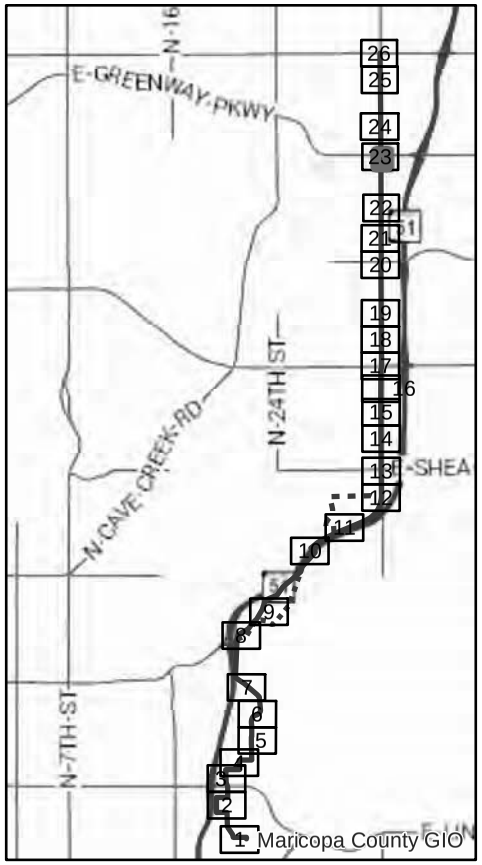
- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
- 84" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 23 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

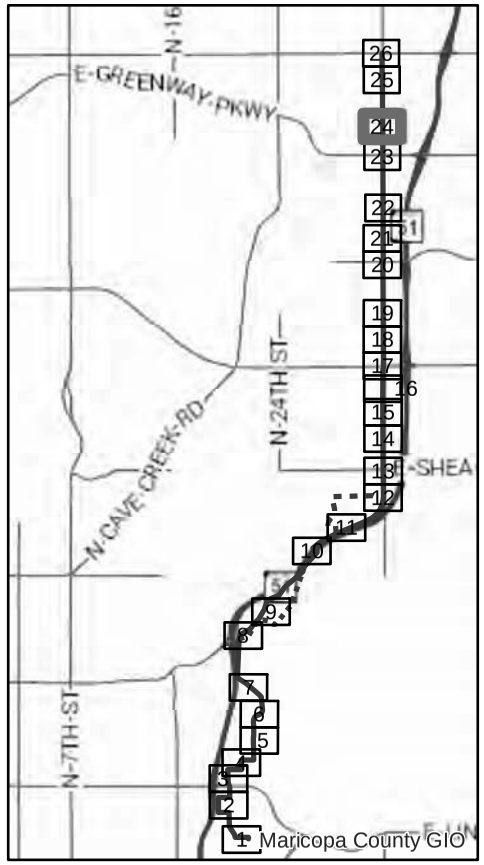
- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
- 84" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 50 100 Feet

N

PEC

Sheet 23A of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

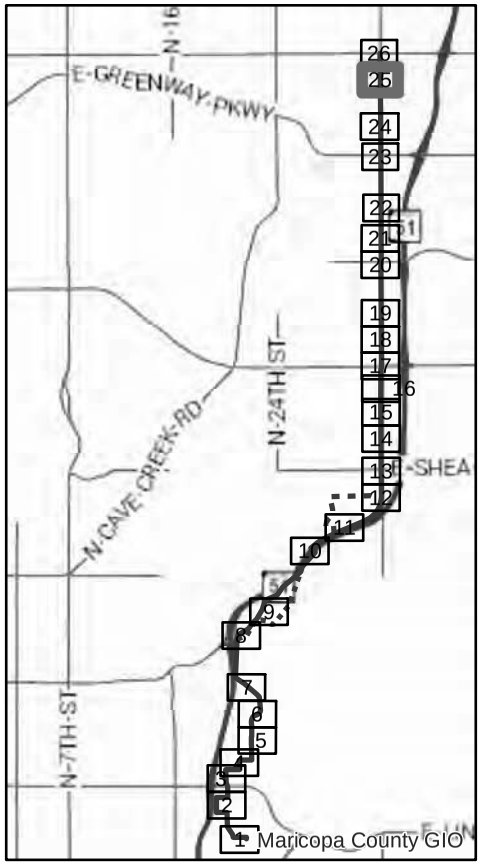
- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
- 84" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 24 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

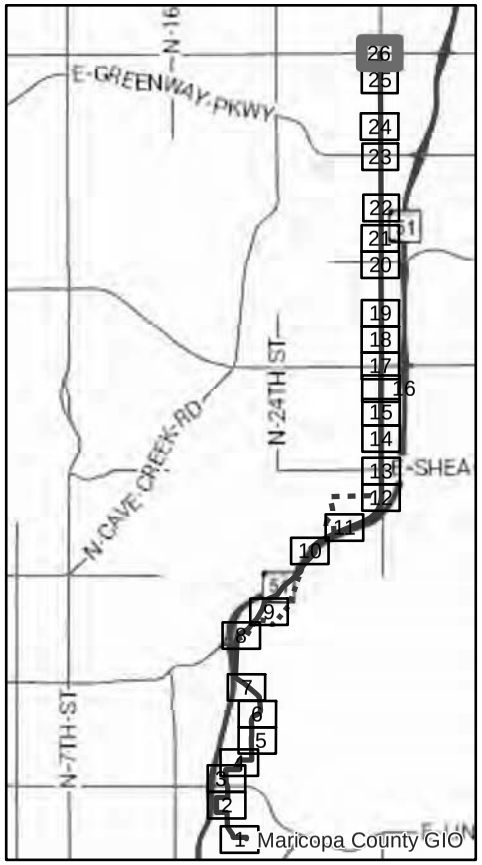
- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
- 84" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

Sheet 25 of 26



24th STREET WATERLINE ALIGNMENT STUDY ALIGNMENT 2

LEGEND

- Alt-2
- Alt 2 Opt-A
- Alt 2 Opt-B
- 84" Jack & Bore
- Jacking Pit
- Receiving Pit
- Water Line
- Sewer Line
- Sewer Manhole
- Storm Drain
- Teleport
- Power - UG
- Power - OH
- Gas
- Cox - UG
- Cox
- Parcel Line

0 100 200 Feet

N

PEC

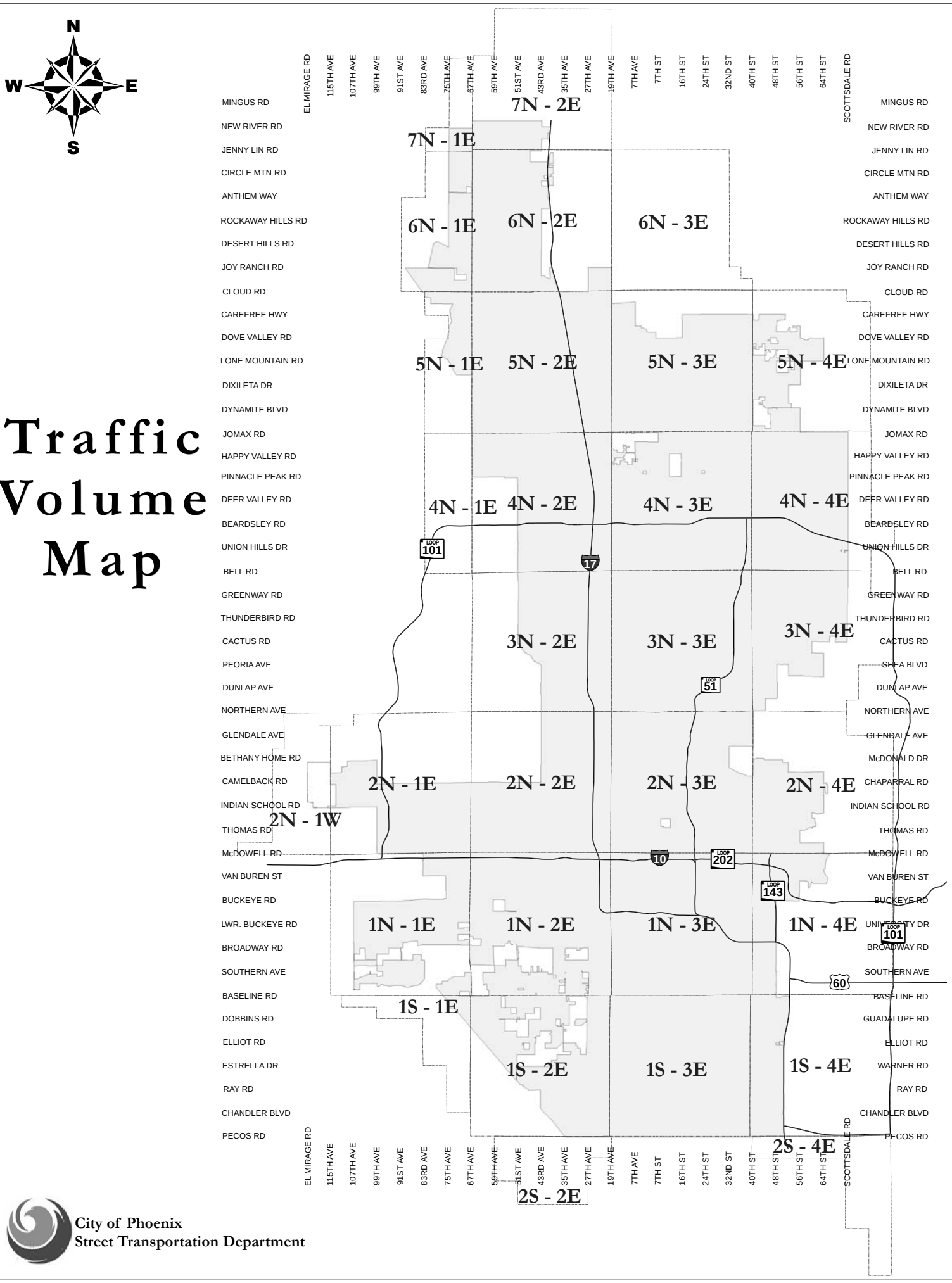
Sheet 26 of 26

Appendix C

Traffic Volume Map

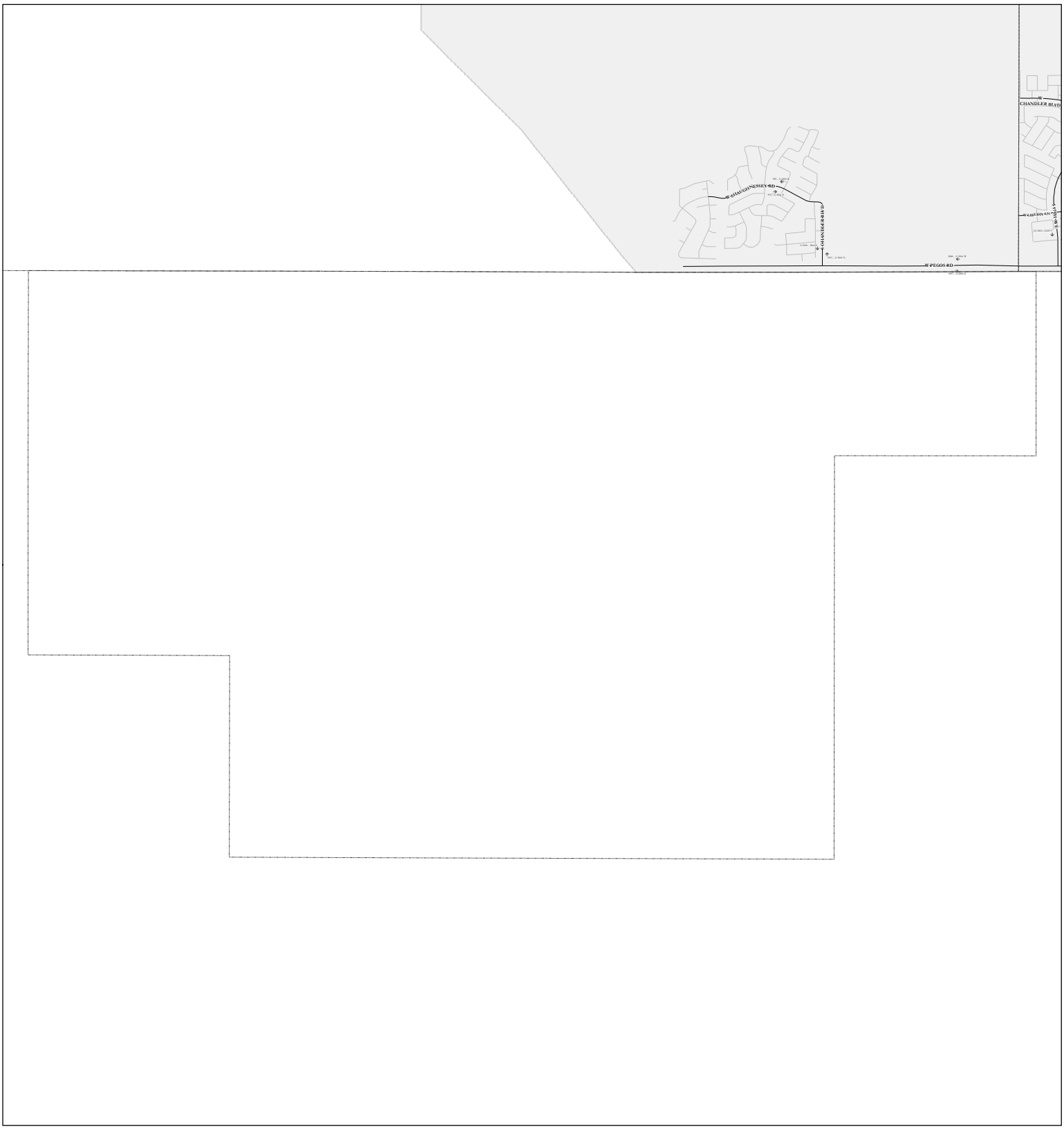
PEC
PROJECT ENGINEERING CONSULTANTS

Traffic Volume Map



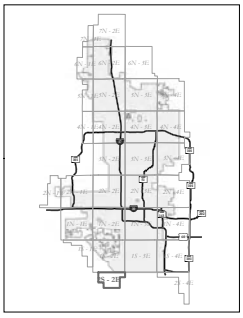
City of Phoenix
Street Transportation Department

Traffic Volume Map



Township - Range 2S - 2E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N
W E
S

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

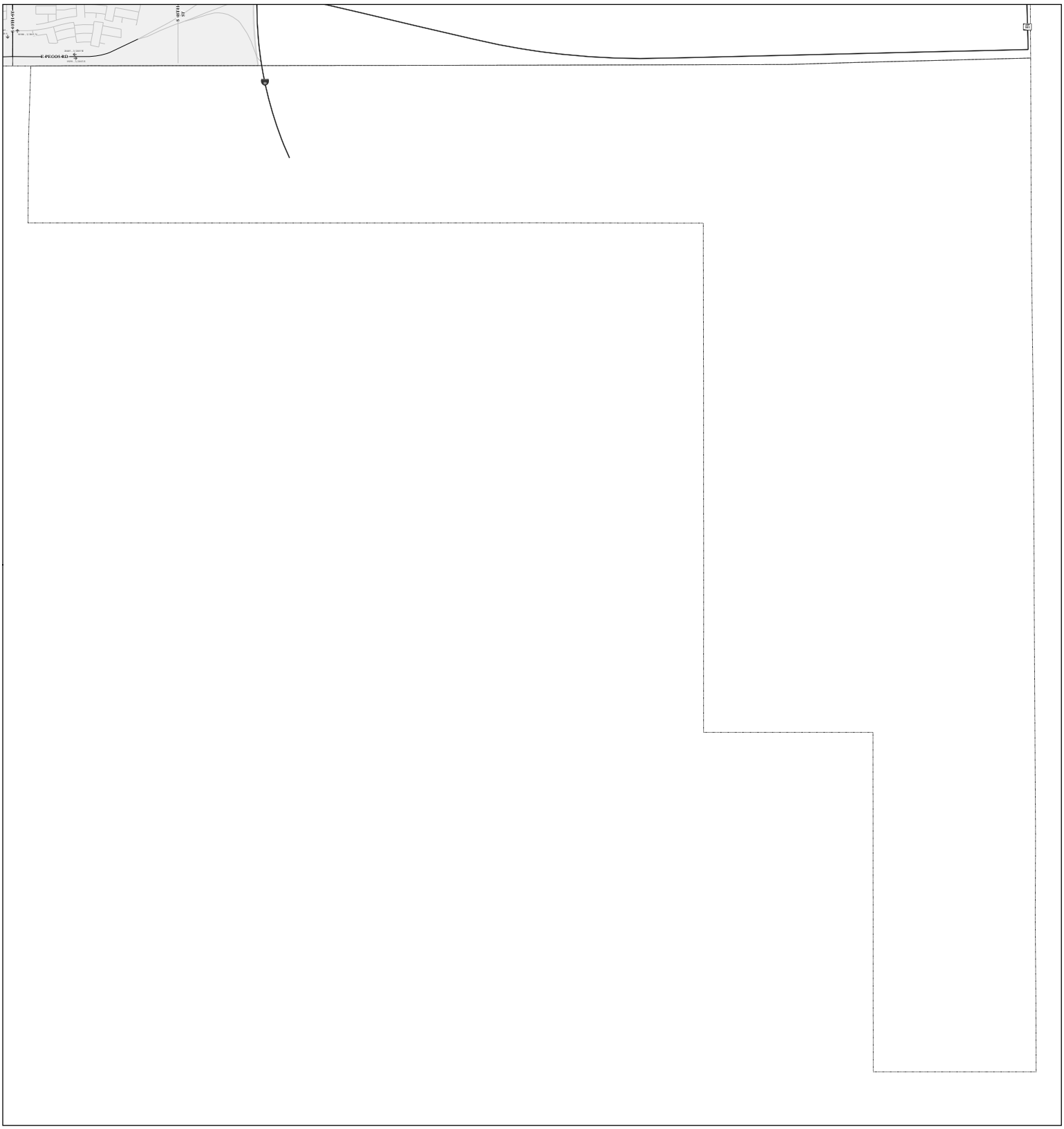
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

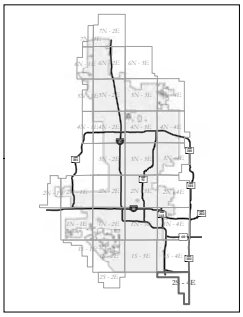
Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map



Township - Range 2S - 4E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N
W E
S

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

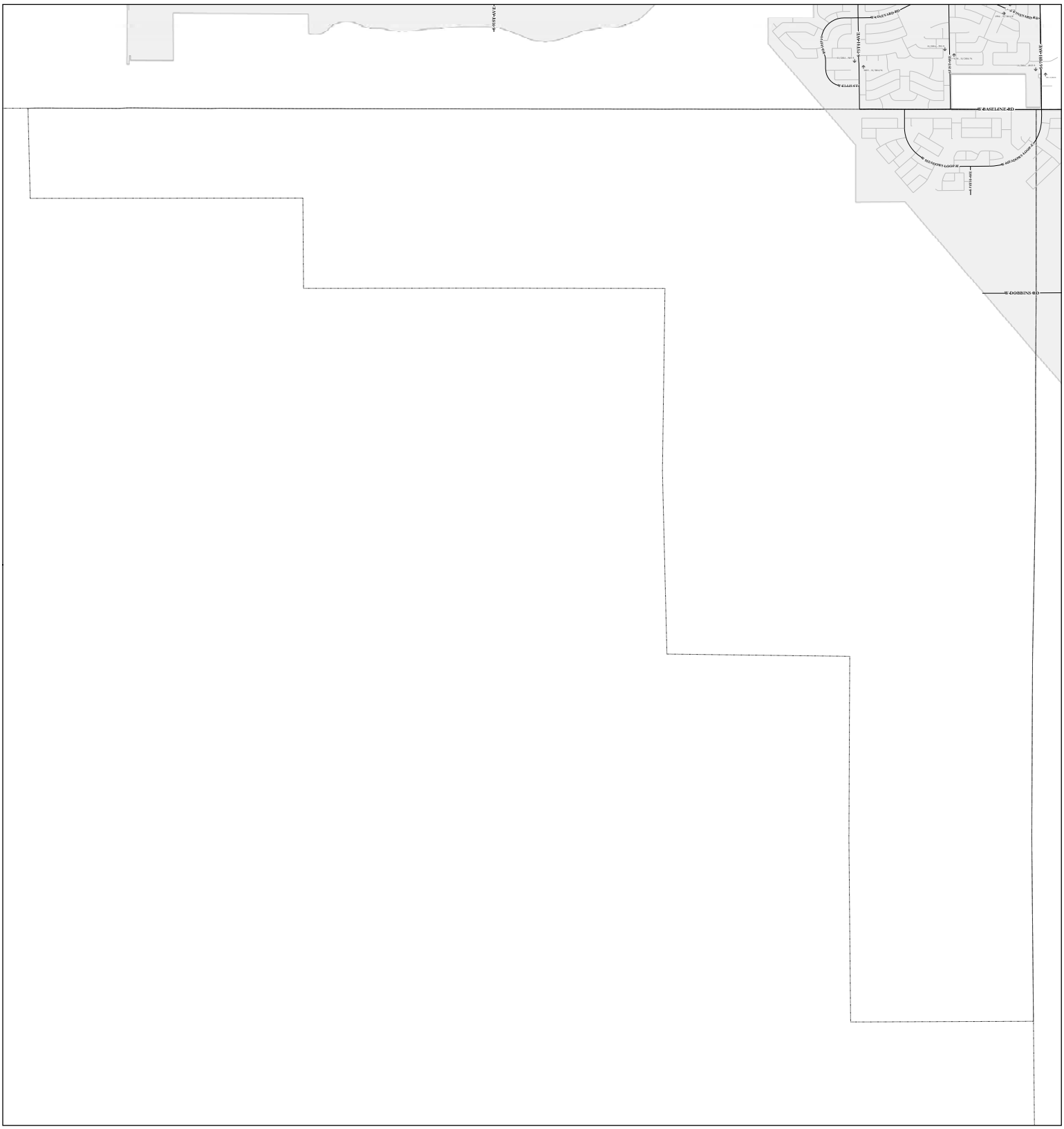
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

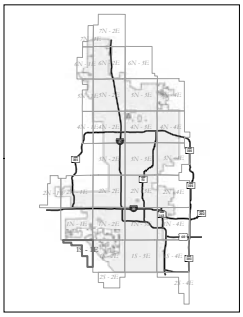
Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map



Township - Range 1S - 1E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N
W E
S

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

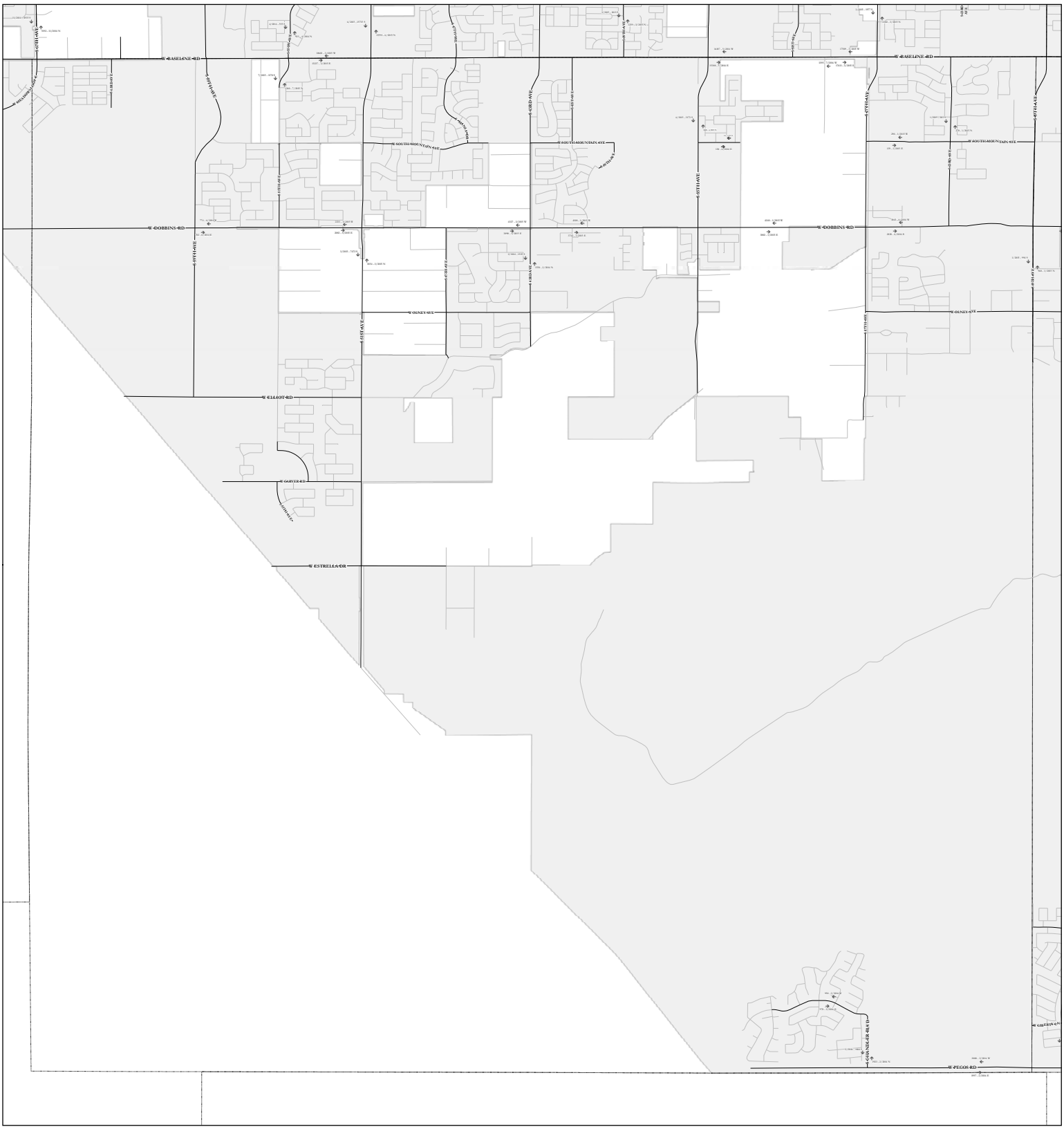
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map


W BASELINE RD
W DOBBINS RD
W OLNEY AVE
W LILLIE RD
W GARVER RD
W ESTRELLA DR
W PEGOS RD
W SOUTH MOUNTAIN AVE
S 61ST AVE
S 63RD AVE
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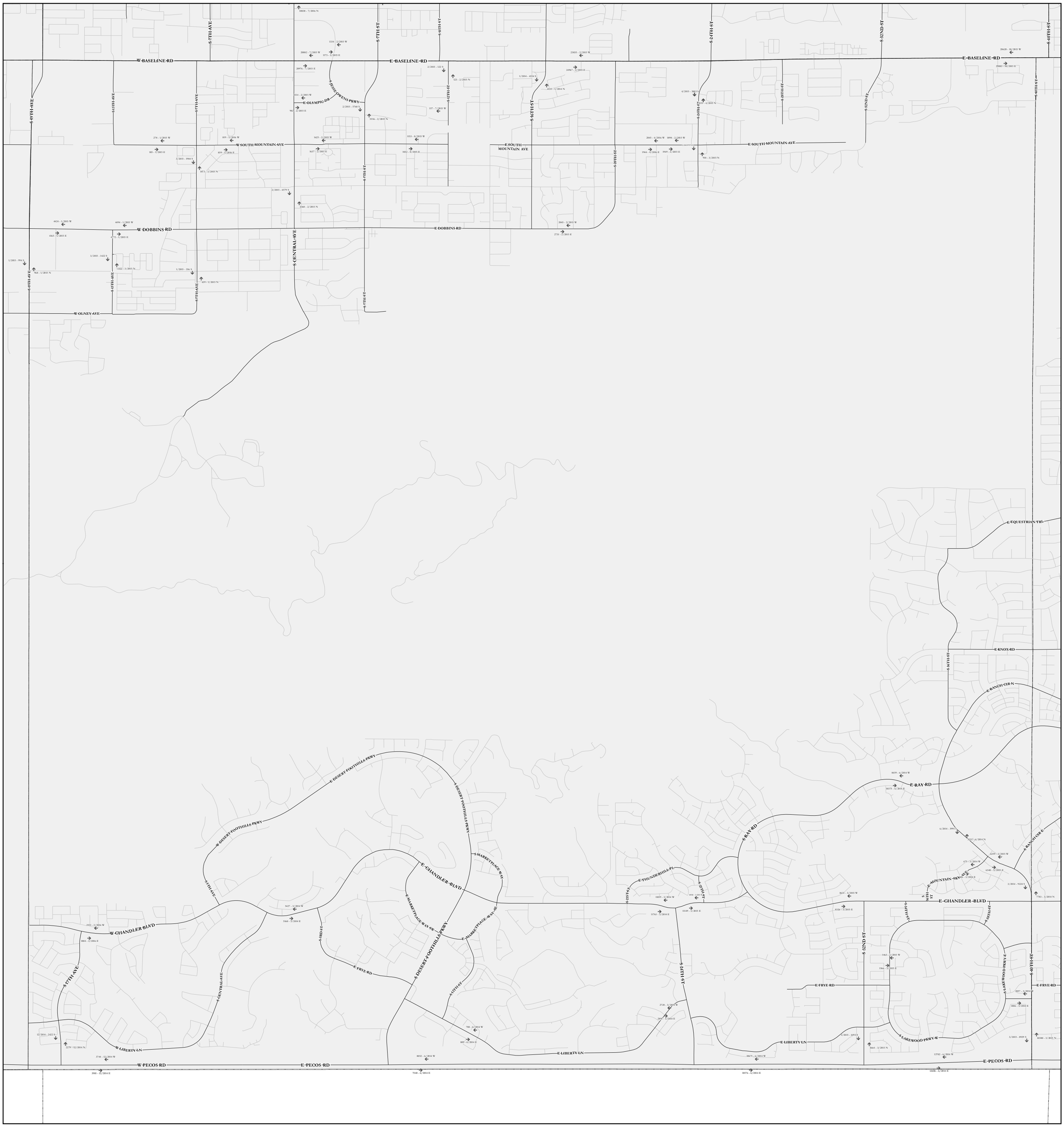
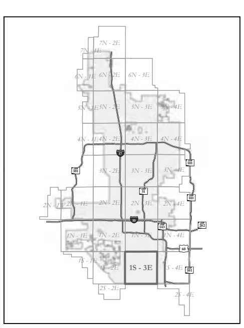
Traffic Volume Map



Township - Range 1S - 3E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic.
The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent
anticipated traffic flow on an average day throughout the year".



N
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Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Date: 9/16/2016
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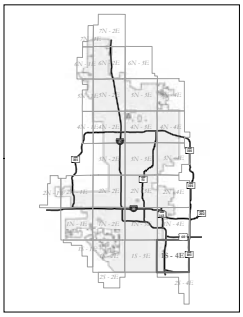
Traffic Volume Map

Township - Range 1S - 4E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Traffic Volumes
- Northbound
- Southbound
- Eastbound
- Westbound

- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

Date: 9/16/2016
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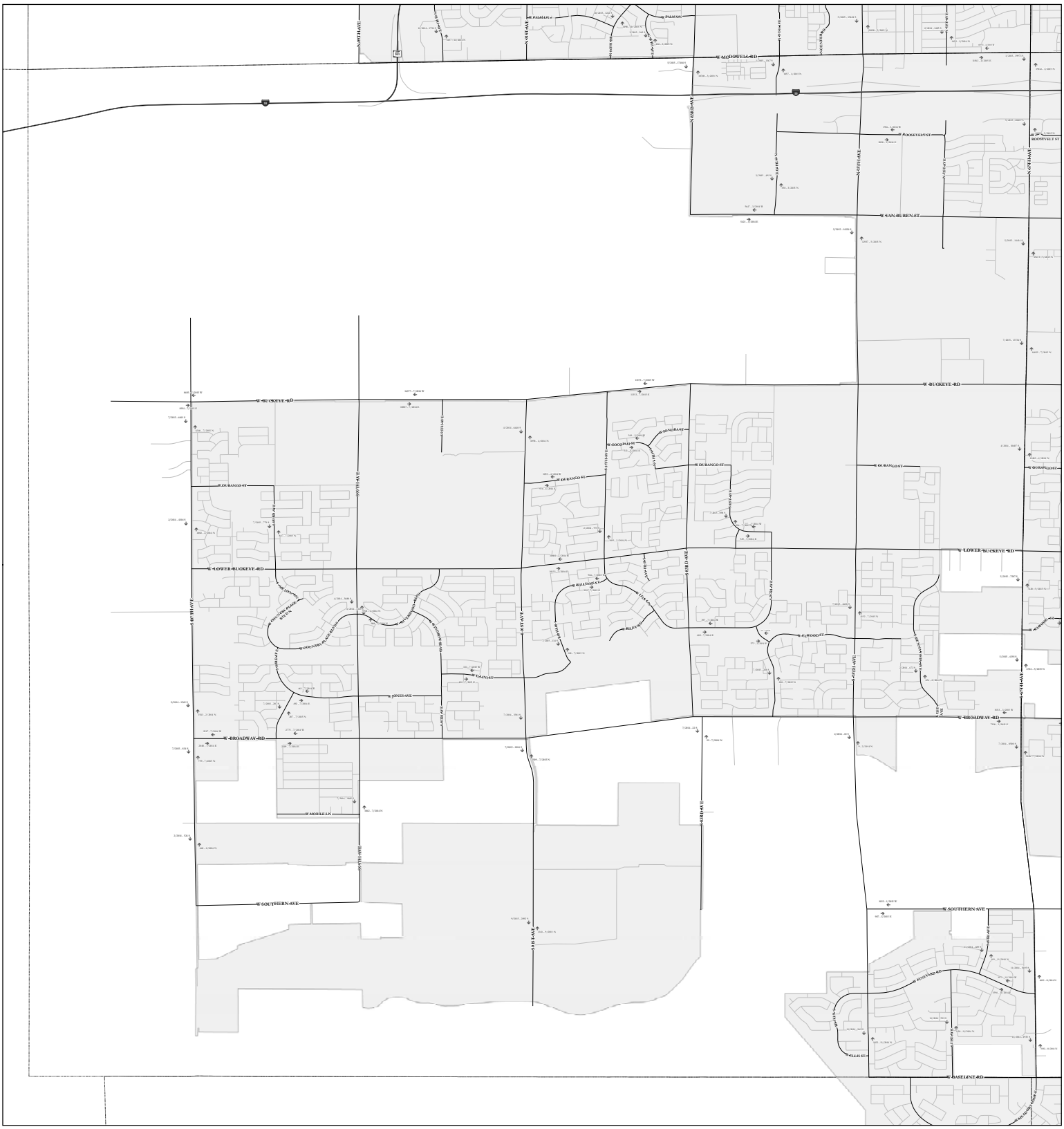
Traffic Volume Map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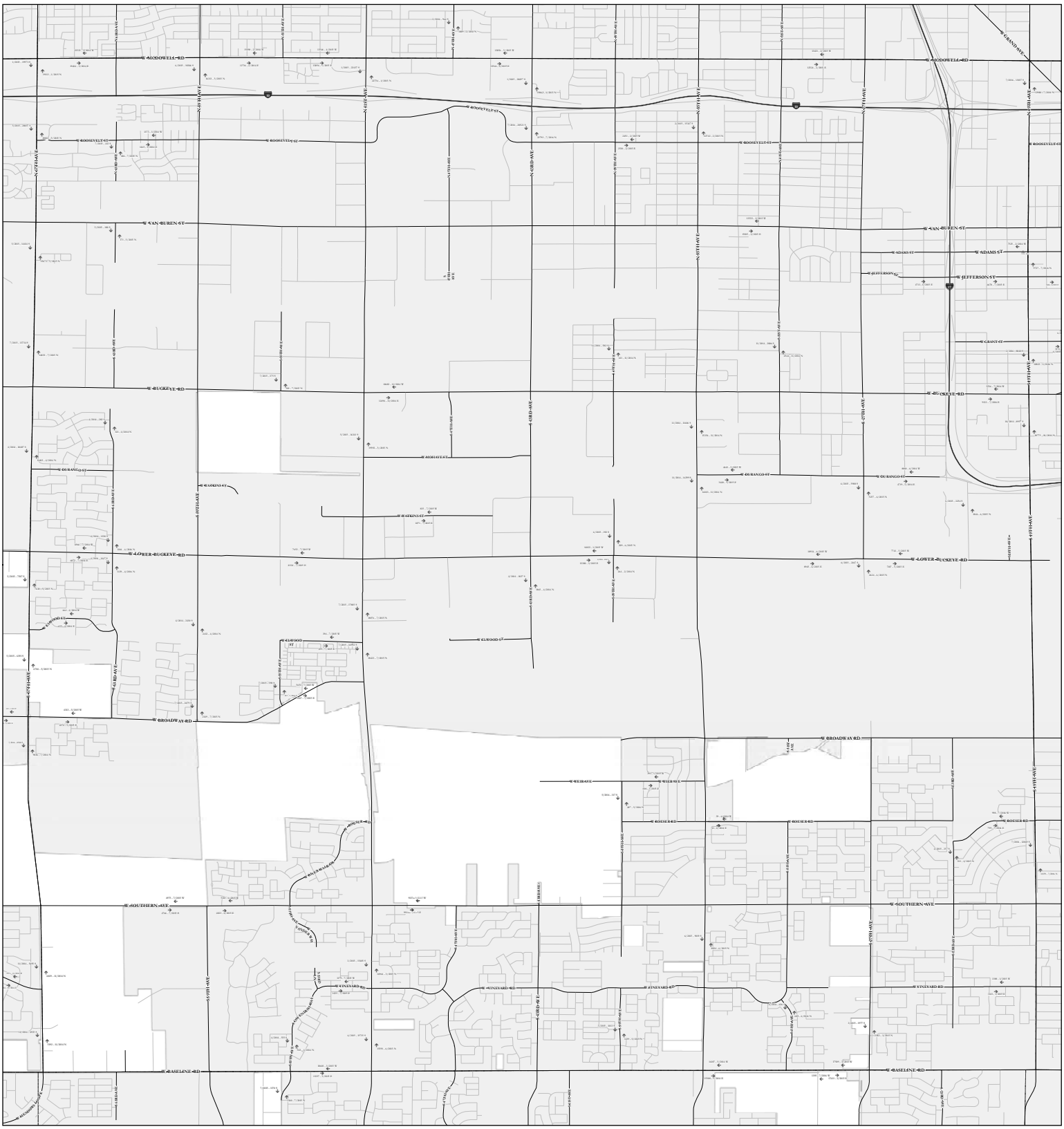
Traffic Volume Map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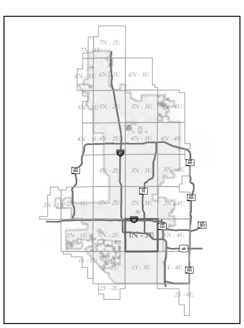
Traffic Volume Map

Township-Range 1N-3E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N W E S

City of Phoenix
Street Transportation Department

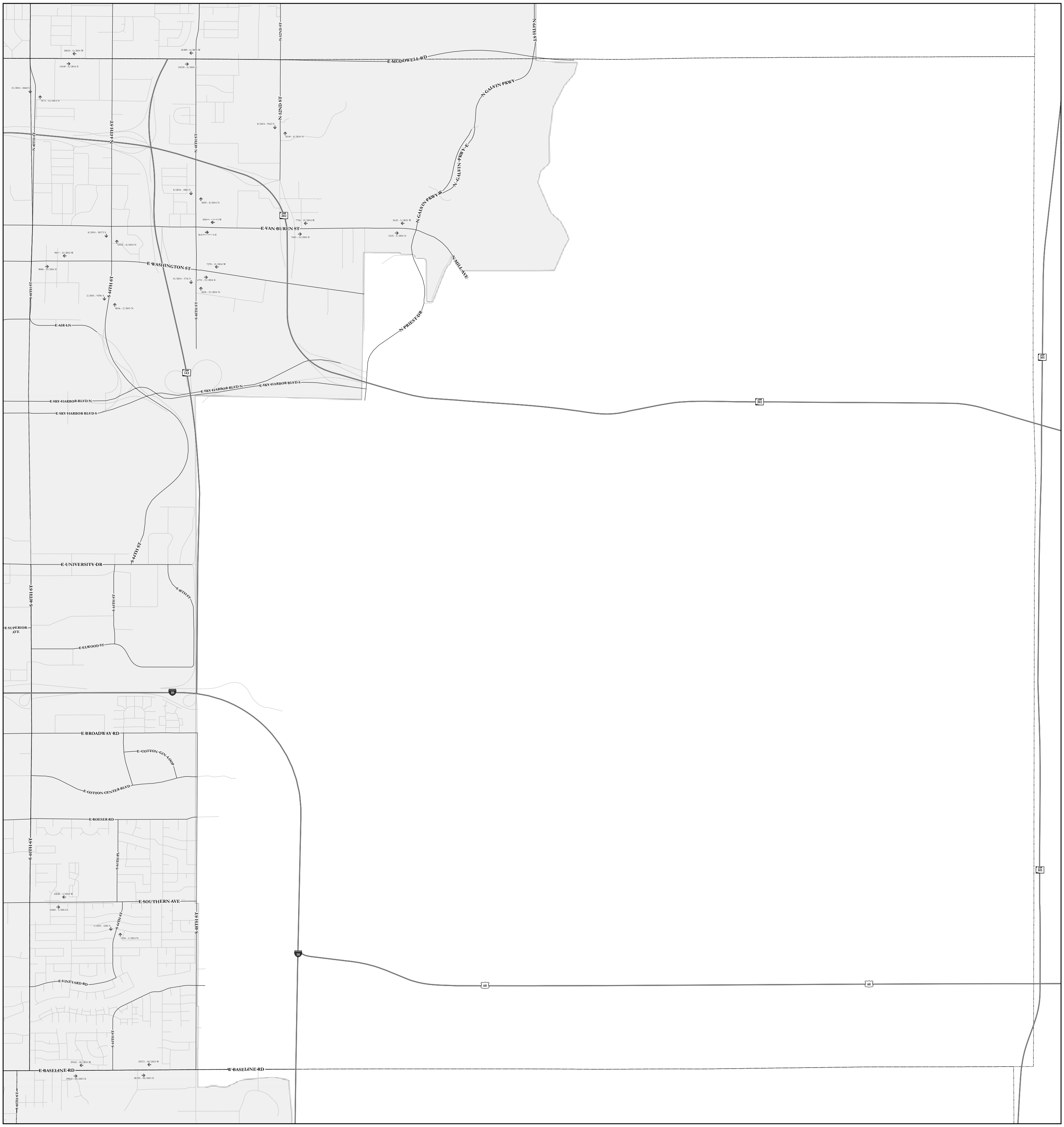
0 2,640 5,280
Feet

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

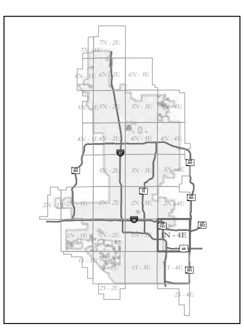
Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map



Township-Range 1N-4E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

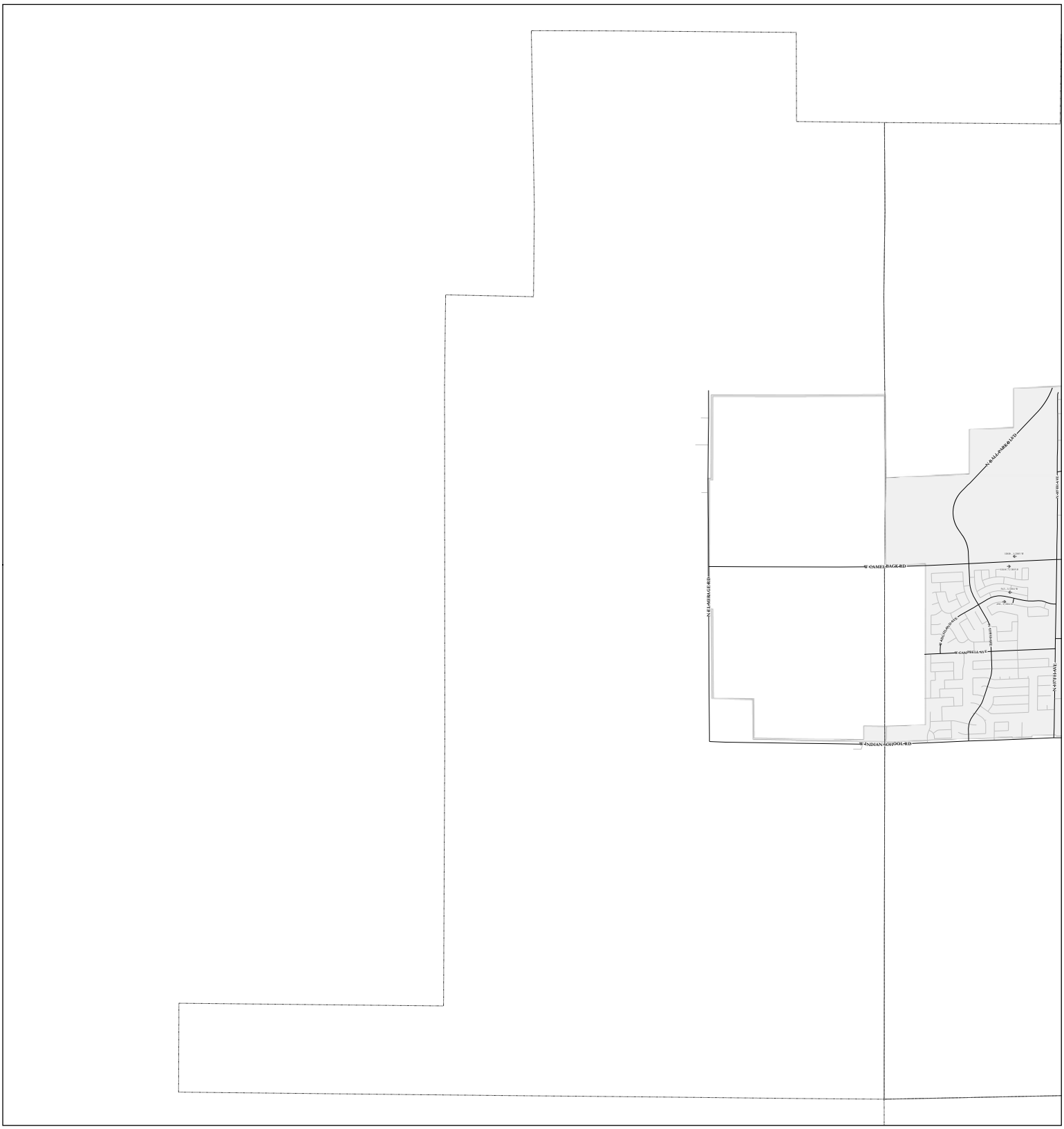
City of Phoenix
Street Transportation Department

0 — 2,640 — 5,280
Feet

N E S W

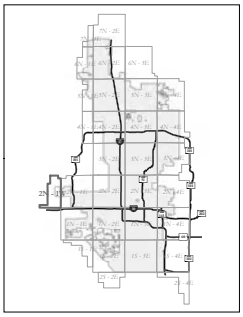
Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map



Township - Range 2N - 1W

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N
W E
S

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

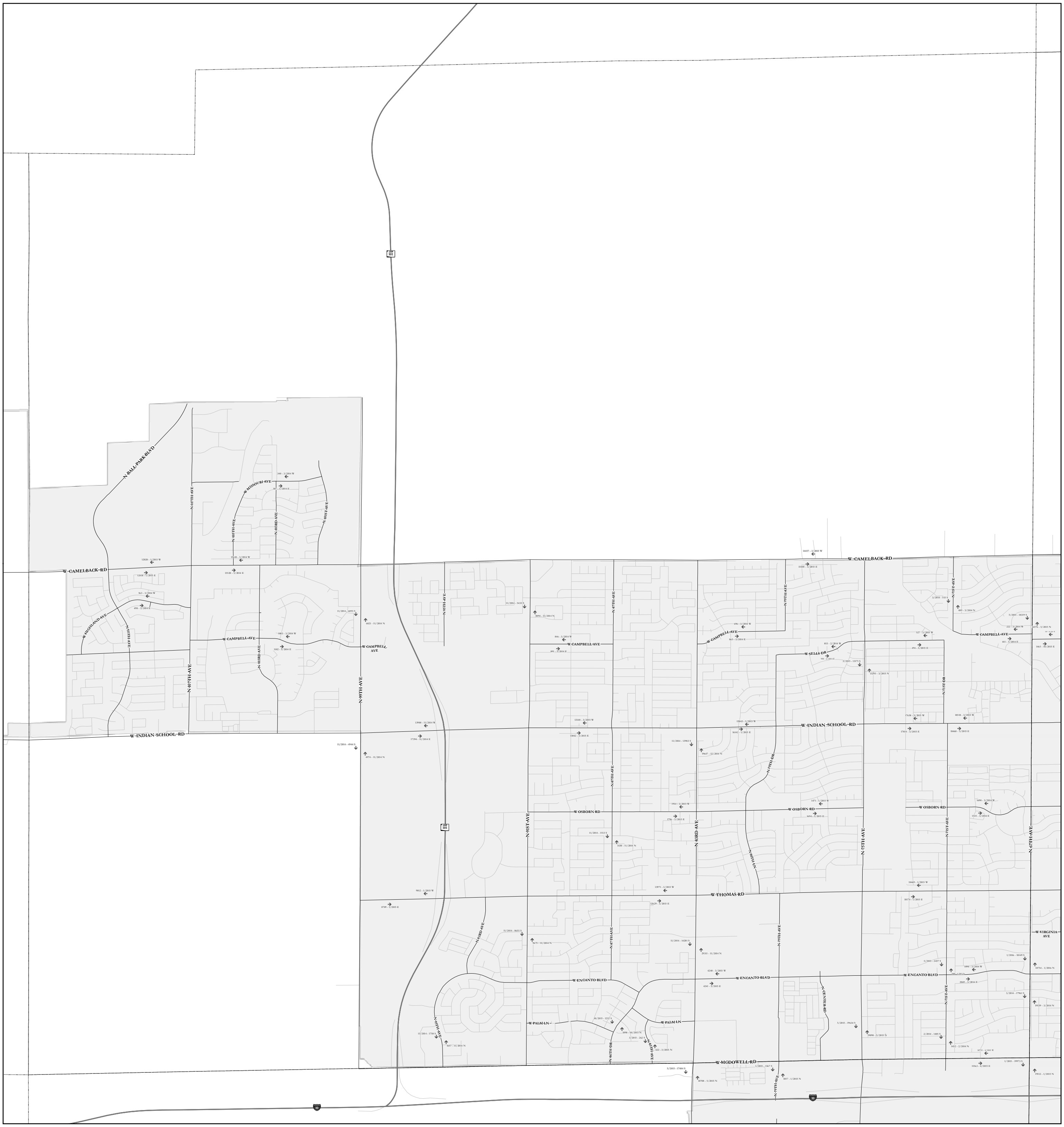
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

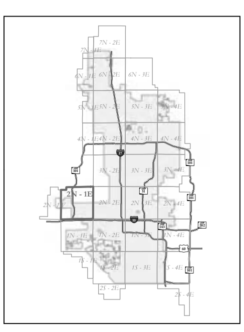
Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map



Township-Range 2N-1E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

N W E S

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

Date: 9/16/2016
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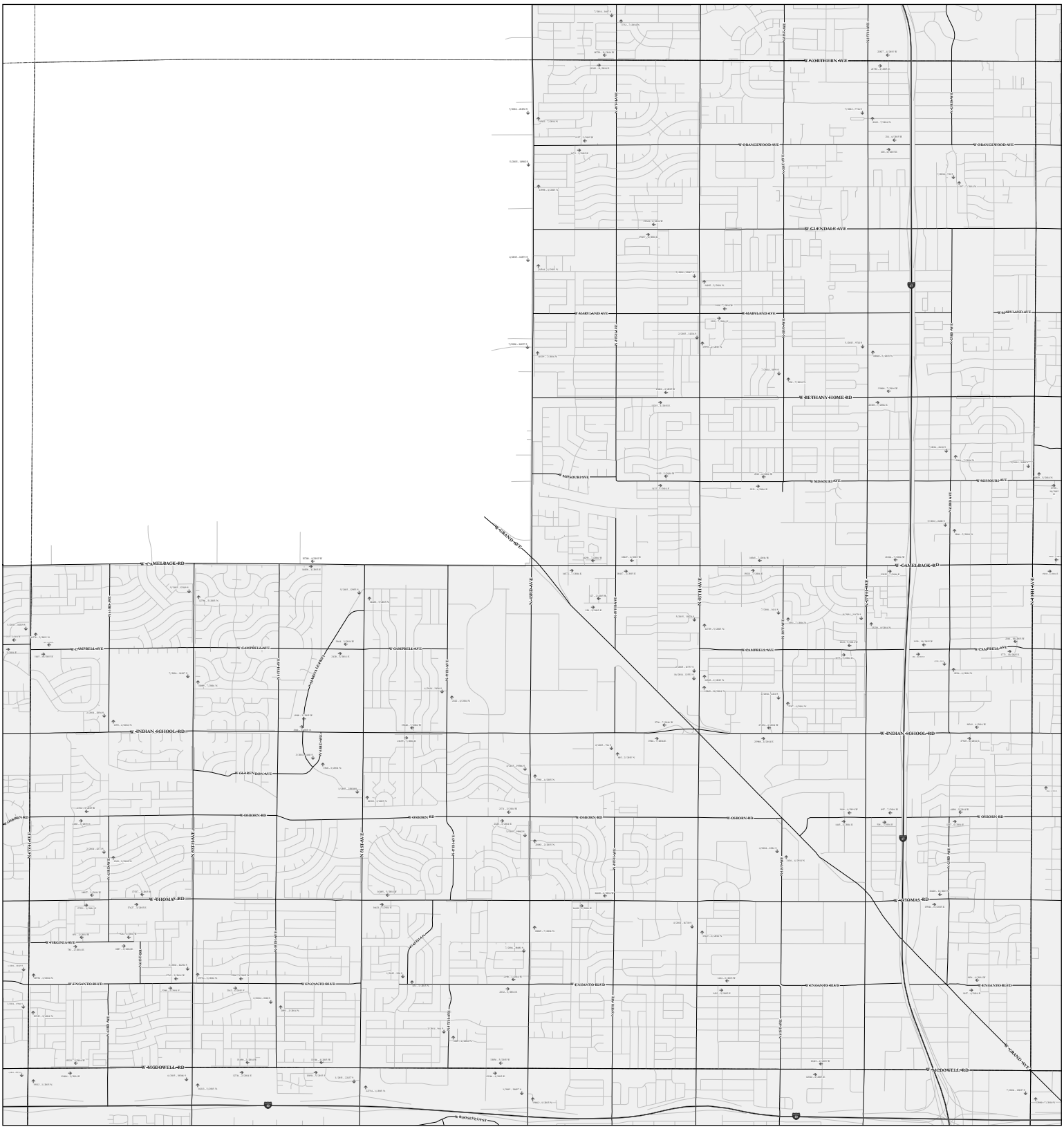
Traffic Volume Map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GRANDVIEW AVE
GLENDALE AVE
MARYLAND AVE
BETHANY HOME RD
MISSOURI AVE
CAMELBACK RD
CAMPBELL AVE
INDIAN SCHOOL RD
GARFIELD AVE
OSBORN RD
THOMAS RD
VIRGINIA AVE
ENGANITO BLVD
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ROOSEVELT ST
GRAND AVE
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Traffic Volume Map

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W ORANGEWOOD AVE
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W GLENDALE AVE
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W MARYLAND AVE
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W BETHANY HOME RD
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W MONTEREY WAY
W MISSOURI AVE
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W CAMELBACK RD
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W GLEN PARK AVE
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W HIGHLAND AVE
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W CAMPBELL AVE
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W INDIAN SCHOOL RD
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W OSBORN RD
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W CATALINA DR
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W THOMAS RD
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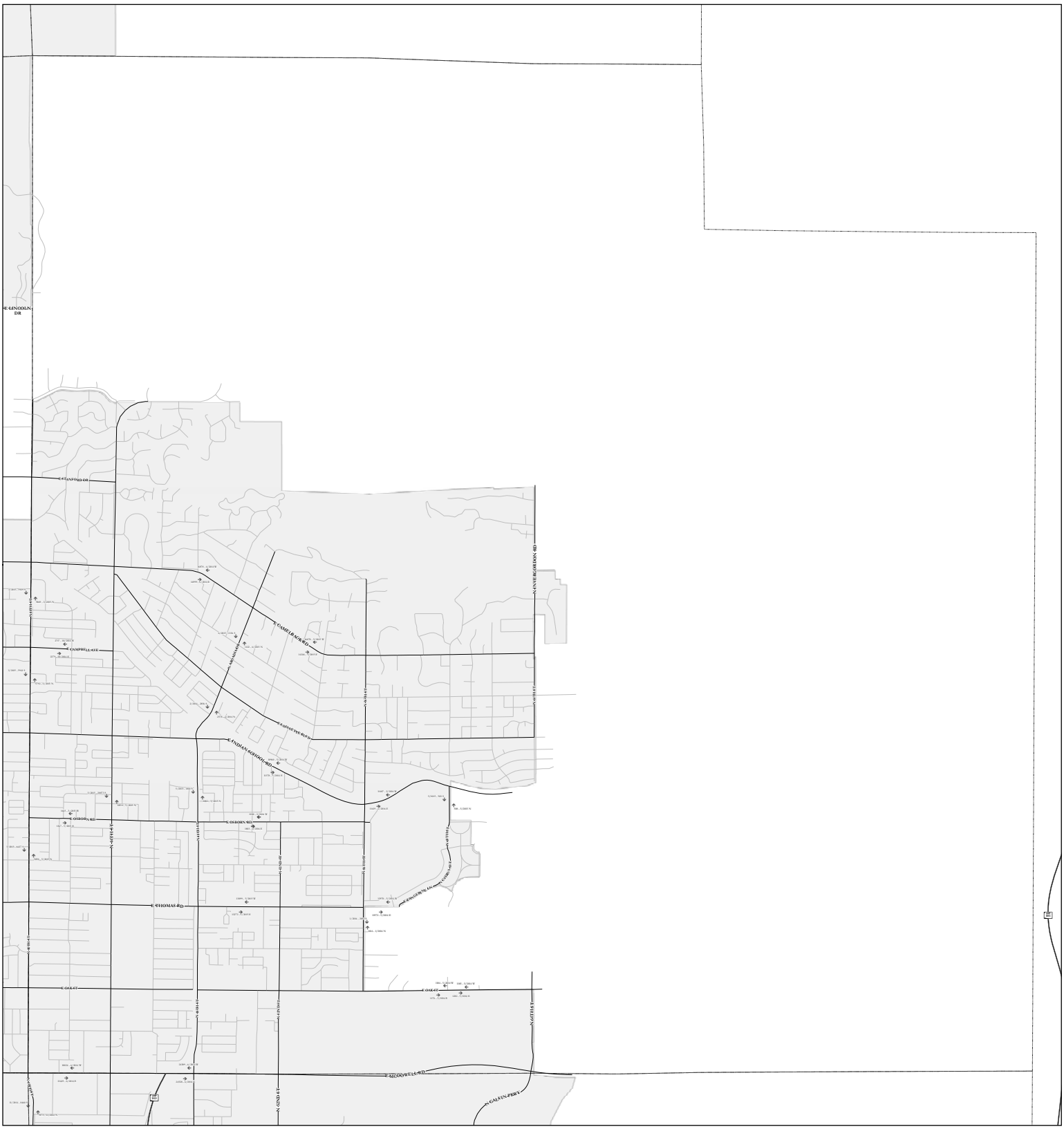
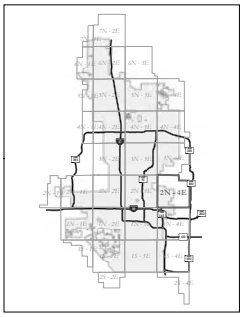
Traffic Volume Map



Township - Range 2N - 4E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



City of Phoenix
Street Transportation Department

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Feet

N
W E
S

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map

W LONGMORE RD
W BELL RD
W PHELPS RD
W GRANDVIEW RD
W PARADISE LN
W GREENWAY RD
W MARIPOSA AVE
W COUNTRY CABLE DR
W AGUILA DR
W THUNDERBIRD RD
W SWEETWATER AVE
W CACTUS RD
W GHOLLA ST
W PEORIA AVE
W GLENN DR
W MOUNTAIN VIEW RD
W HATCHER RD
W DUNLAP AVE
W BUTLER DR
W NORTHERN AVE
N 67TH AVE
N 75TH AVE
N 83RD AVE
N 91ST AVE
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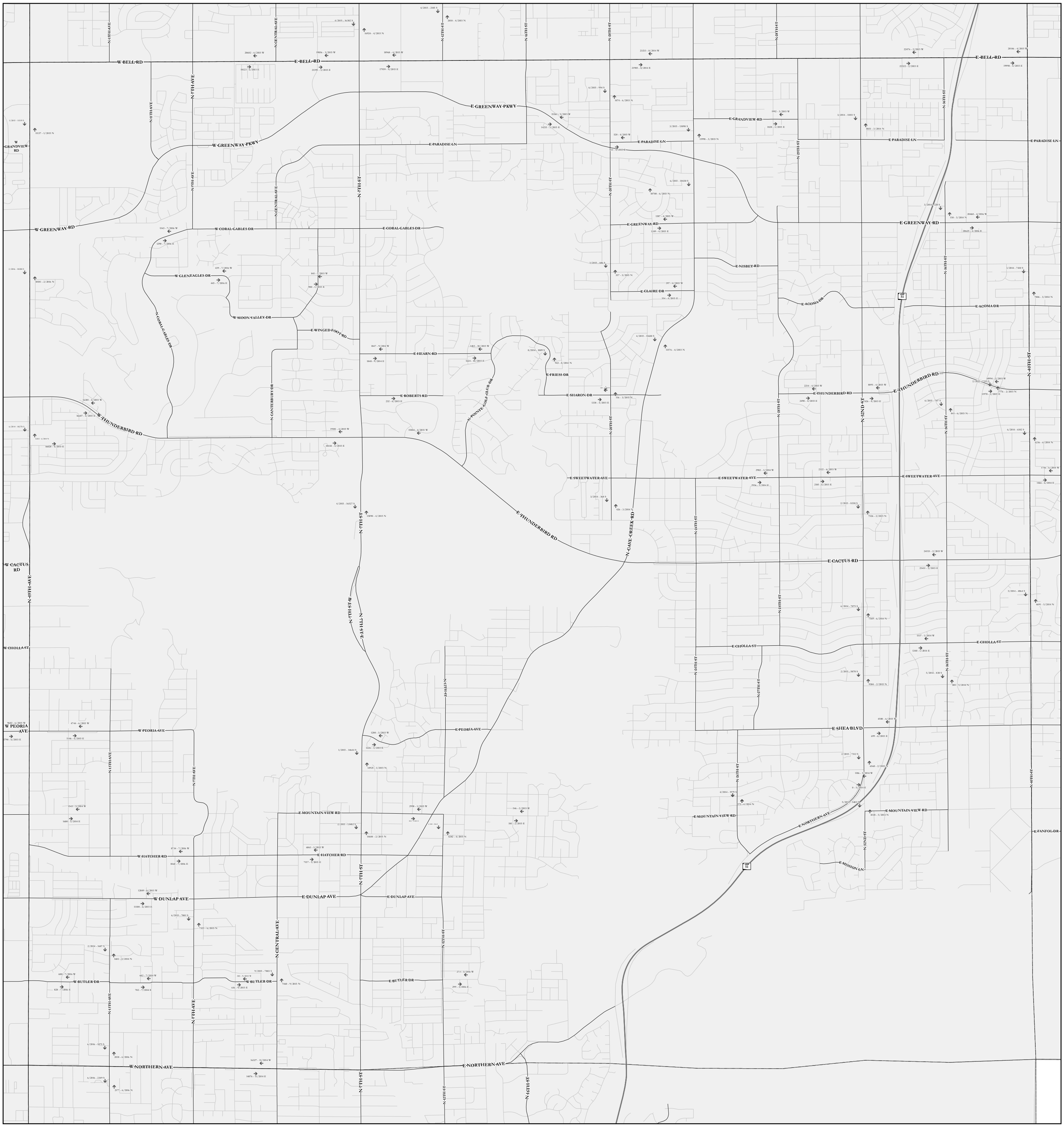
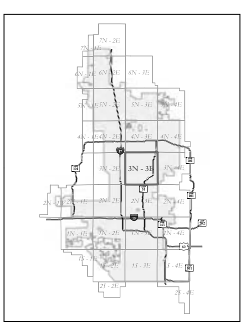
Traffic Volume Map



Township - Range 3N - 3E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N
W E
S

Traffic Volumes

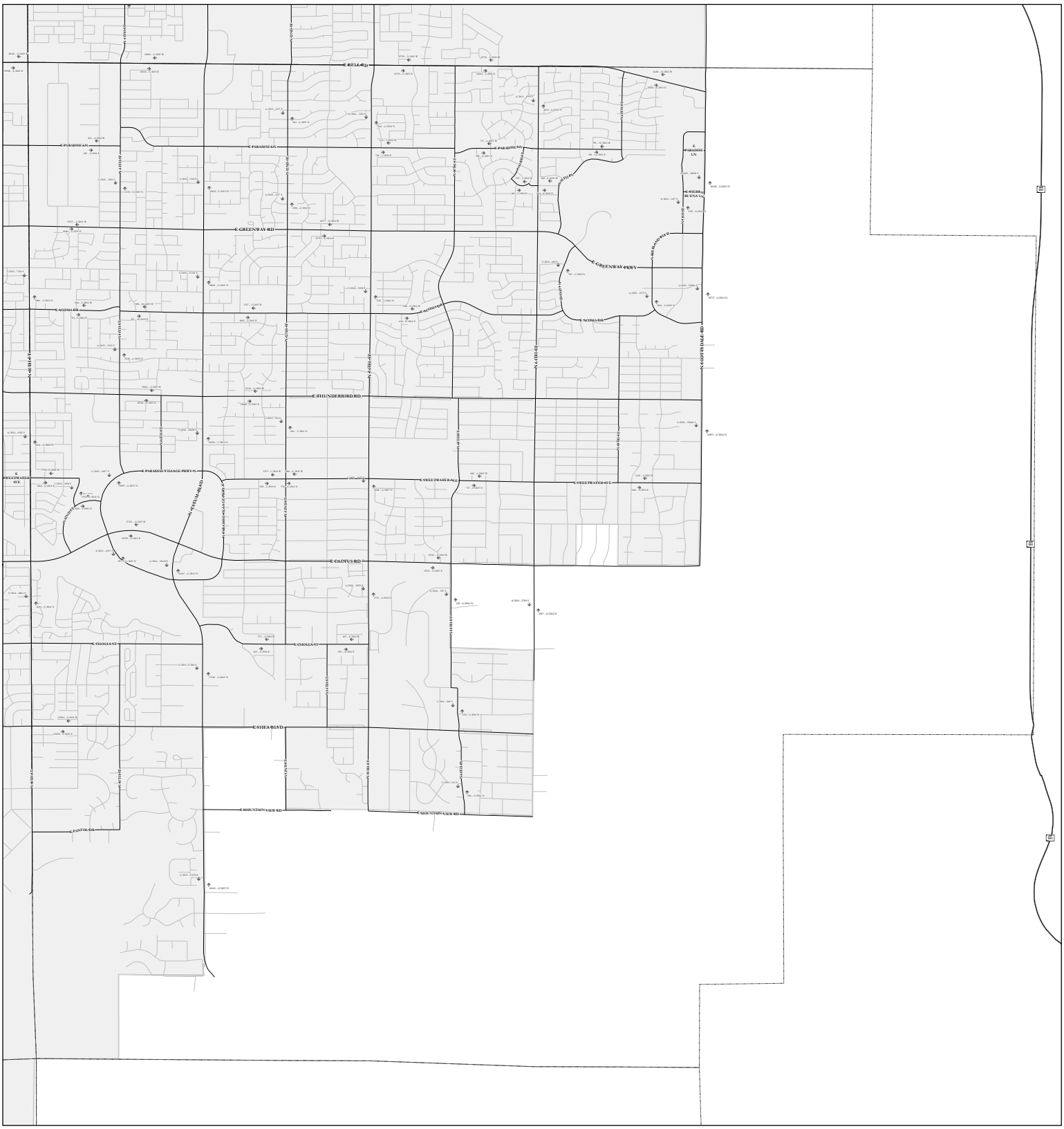
- Northbound
- Southbound
- Eastbound
- Westbound
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map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E GREENWAY RD
E GREENWAY PKWY
E SONORA DR
E THUNDERBIRD RD
E PARADISE VILLAGE PKWY N
E SWEETWATER AVE
E CACTUS RD
E CHOLLA ST
E SHEA BLVD
E MOUNTAIN VIEW RD
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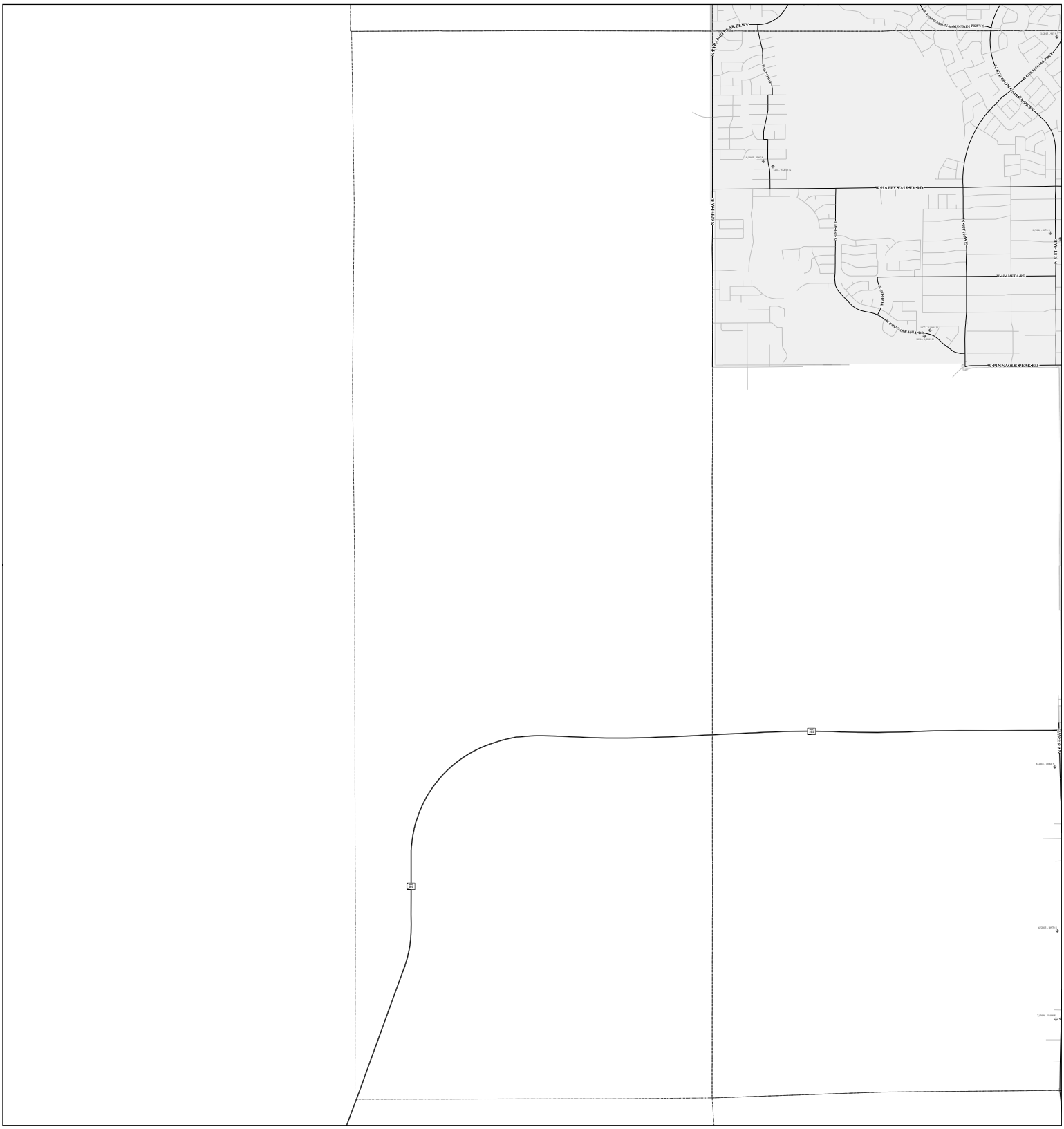
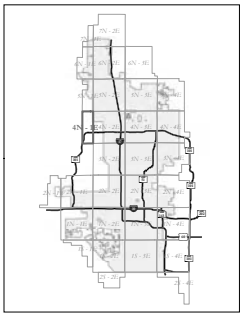
Traffic Volume Map



Township - Range 4N - 1E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N
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S

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

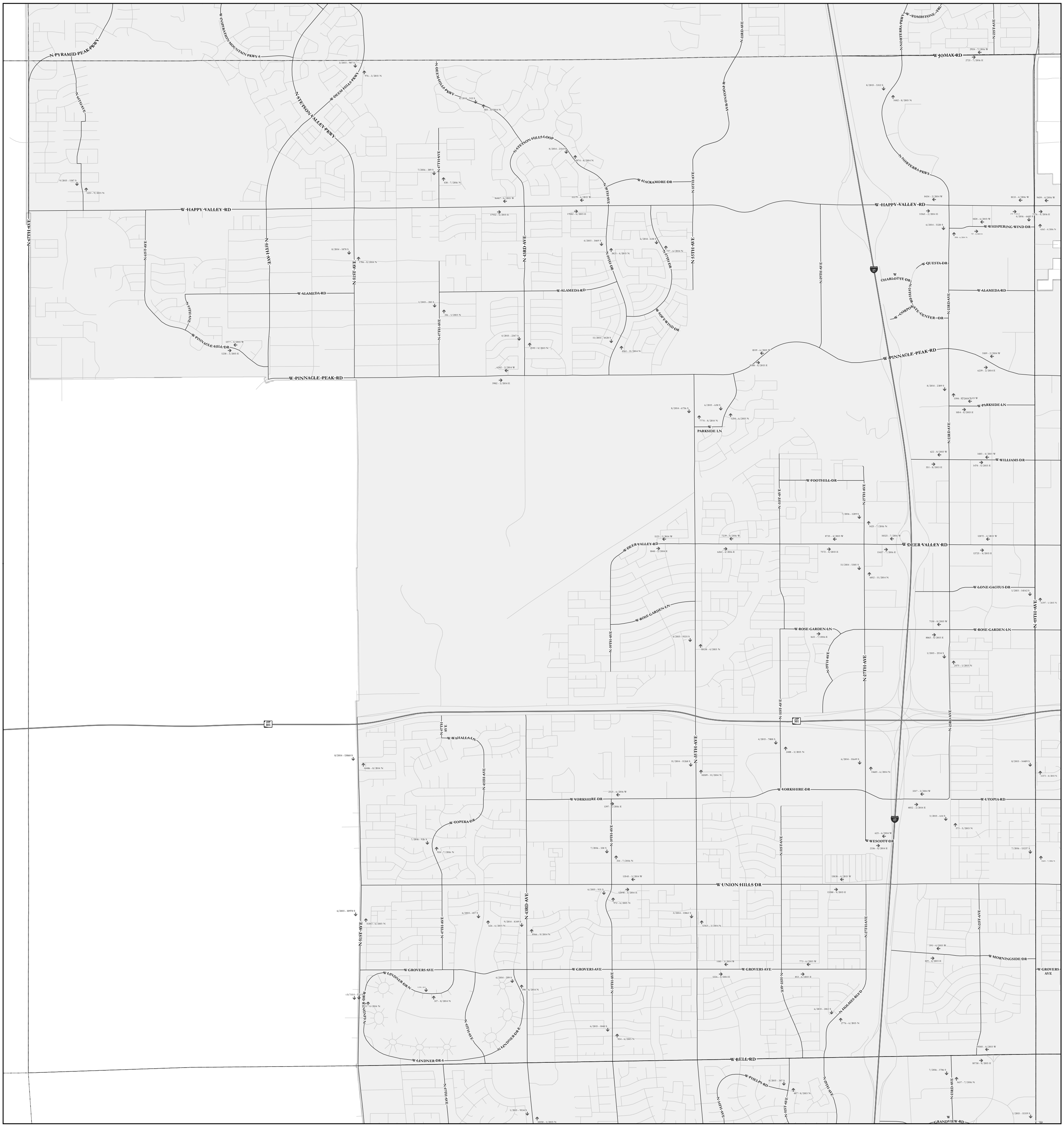
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

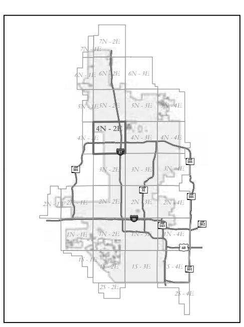
Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map



Township - Range 4N - 2E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



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City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Traffic Volumes

Northbound
Southbound
Eastbound
Westbound

Major / Collector Streets
Local Streets
Townships
Phoenix City Limits

Date: 9/16/2016
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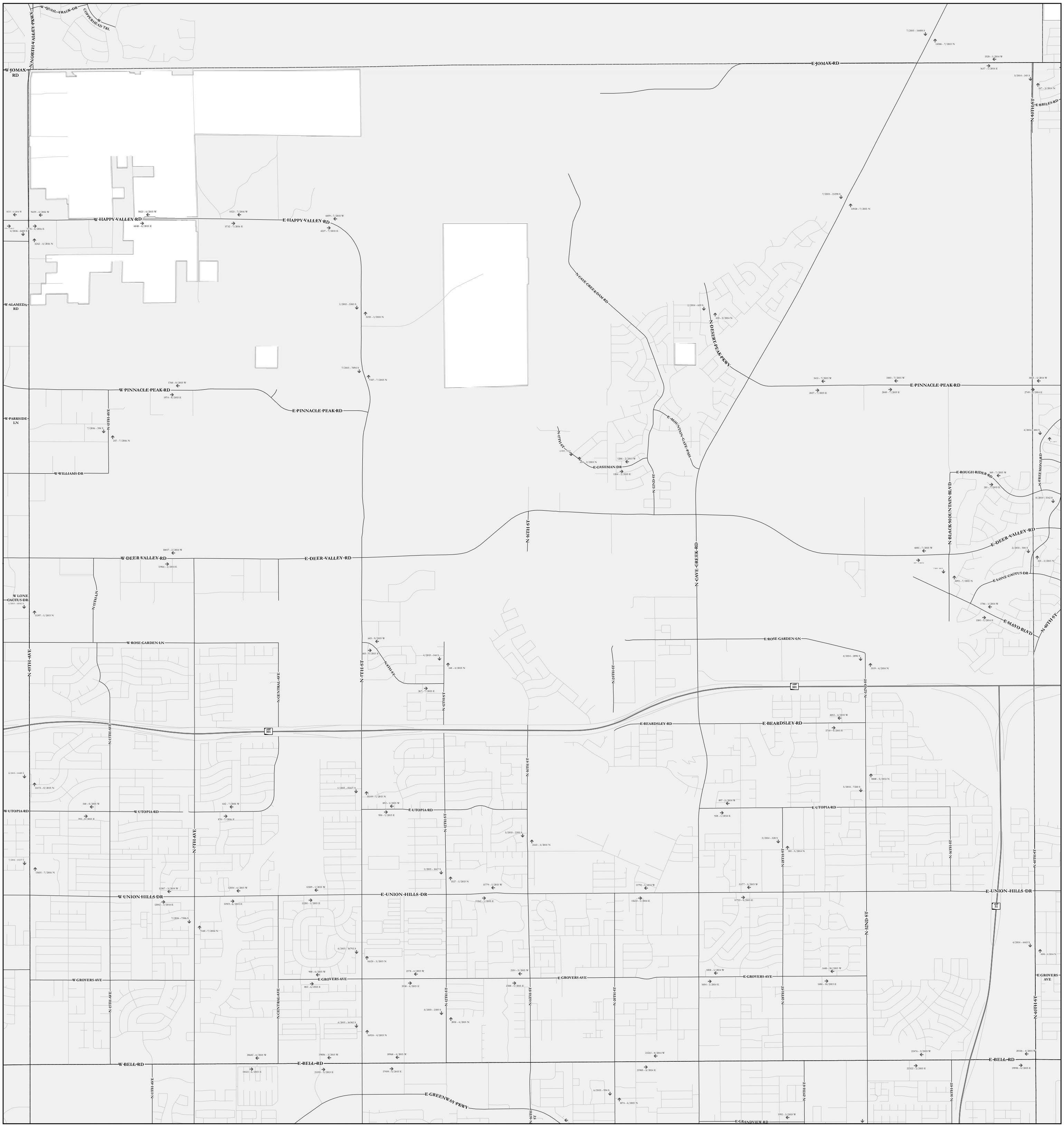
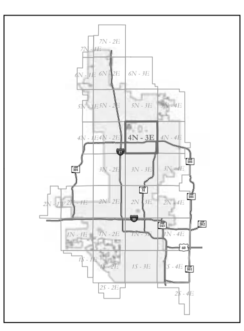
Traffic Volume Map



Township - Range 4N - 3E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



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City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

Date: 9/16/2016
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Traffic Volume Map

Township - Range 4N - 4E

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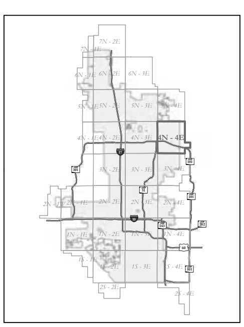
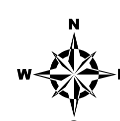
anticipated traffic flow on an average day throughout the year".





City of Phoenix
Street Transportation Department

0 2,640 5,280
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Traffic Volumes

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- Eastbound
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Date: 9/16/2016
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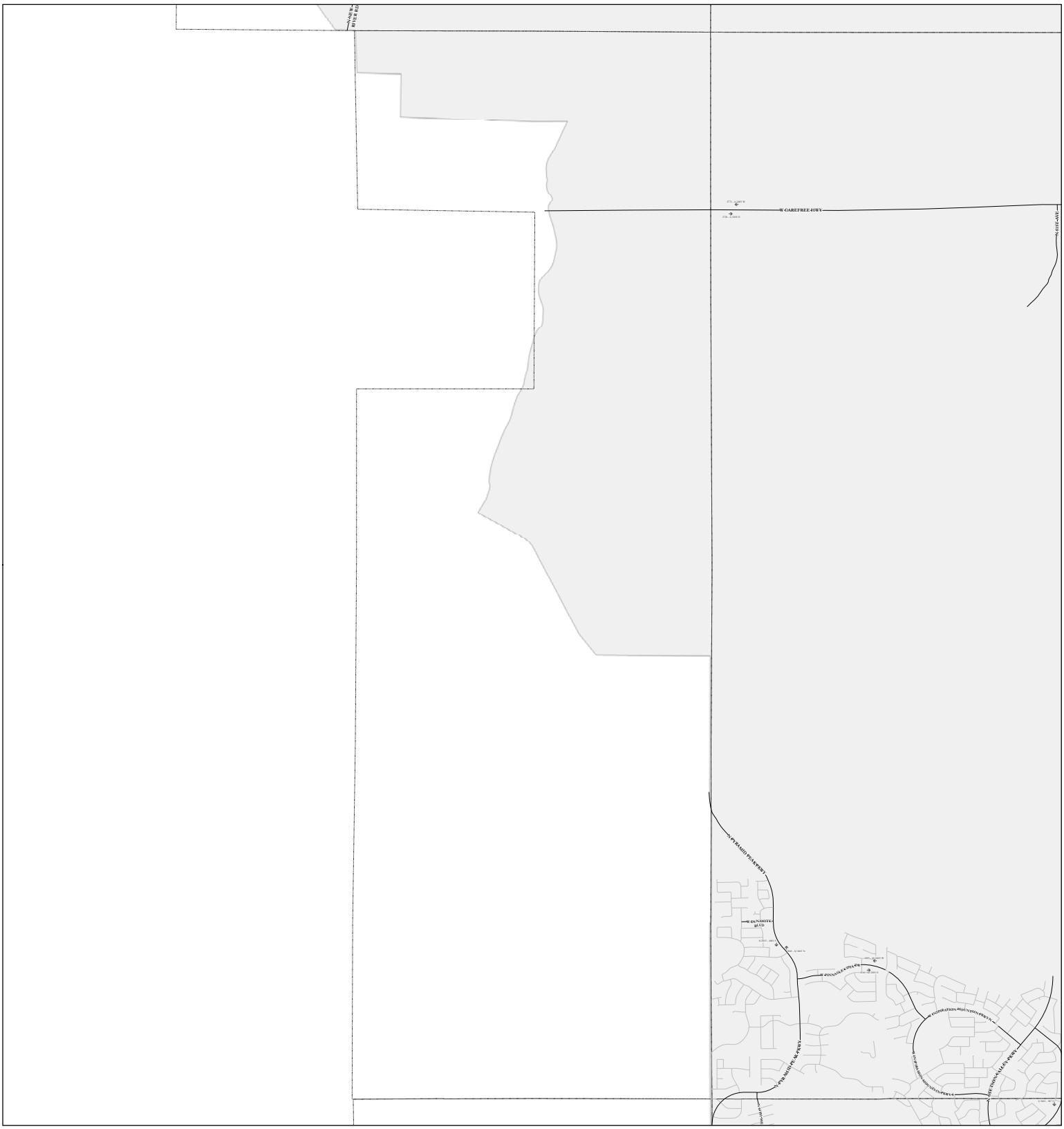
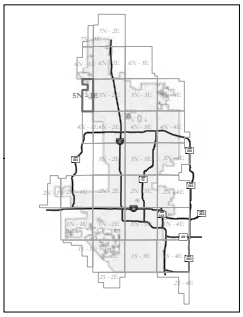
Traffic Volume Map



Township - Range 5N - 1E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Date: 9/16/2016
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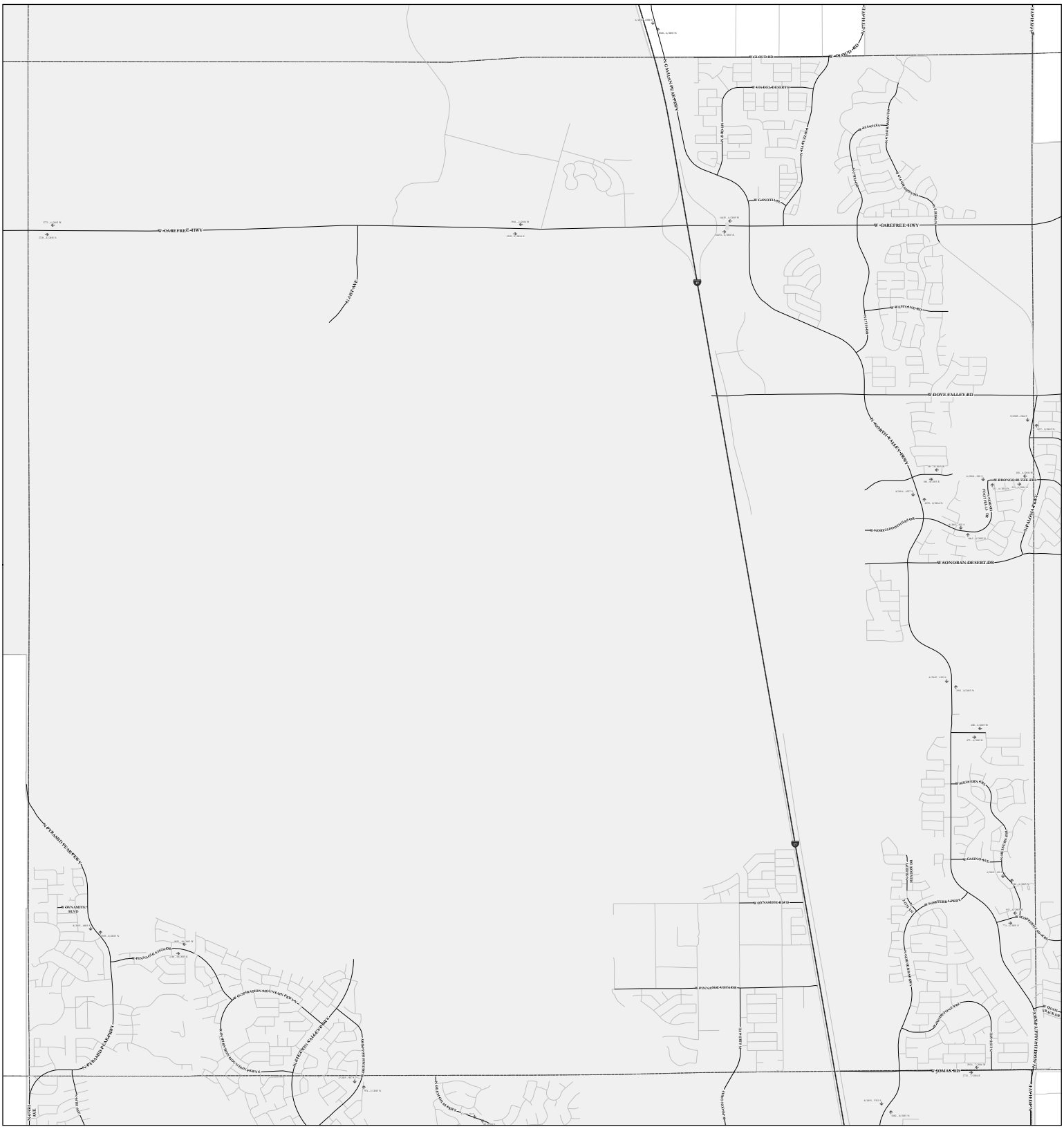
Traffic Volume Map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W DOVE VALLEY RD
W SONORAN DESERT DR
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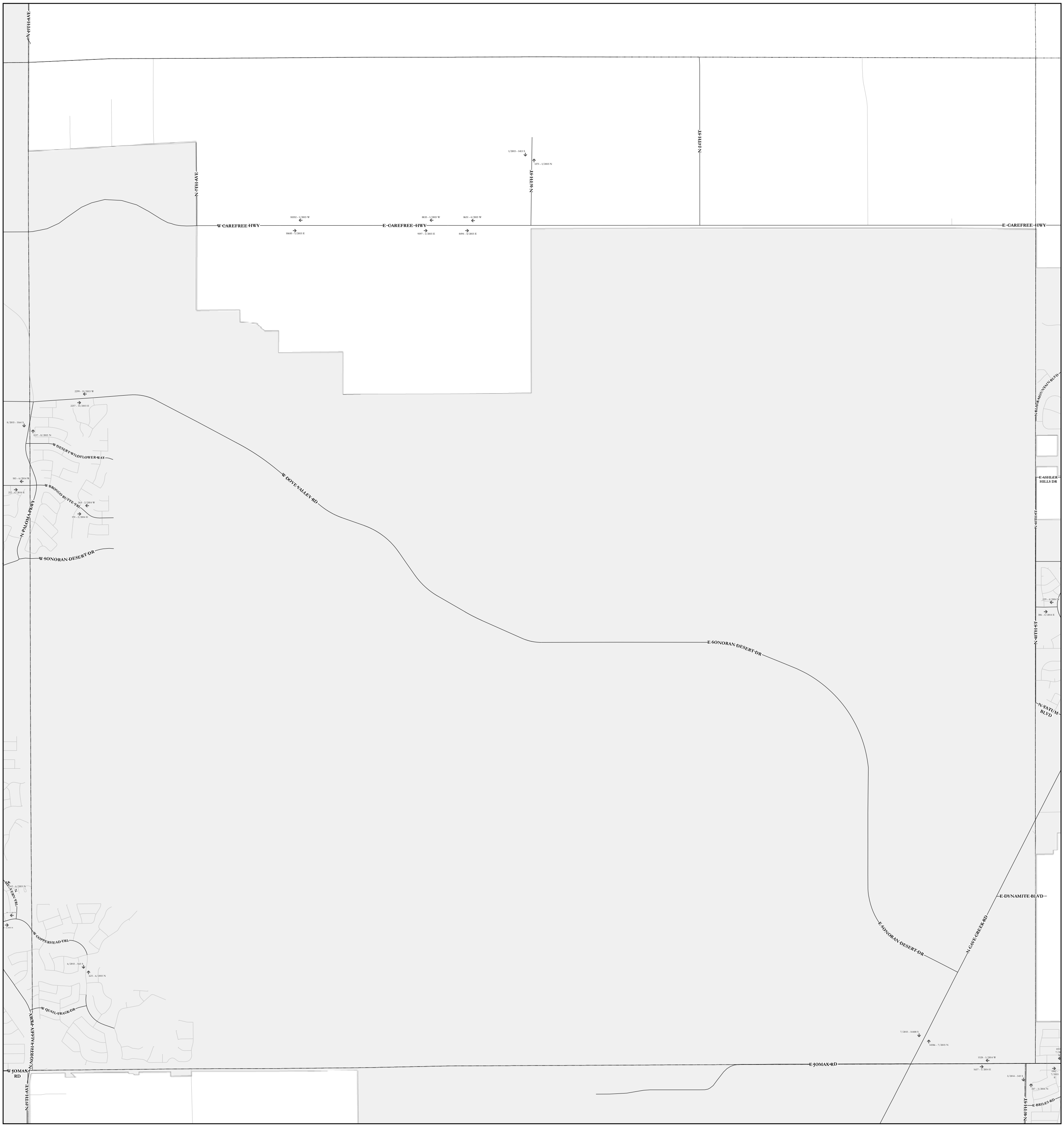
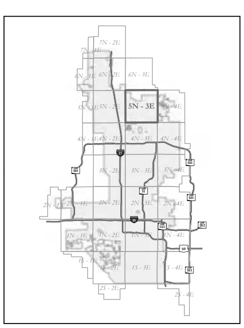
Traffic Volume Map



Township - Range 5N - 3E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



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City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

Date: 9/16/2016
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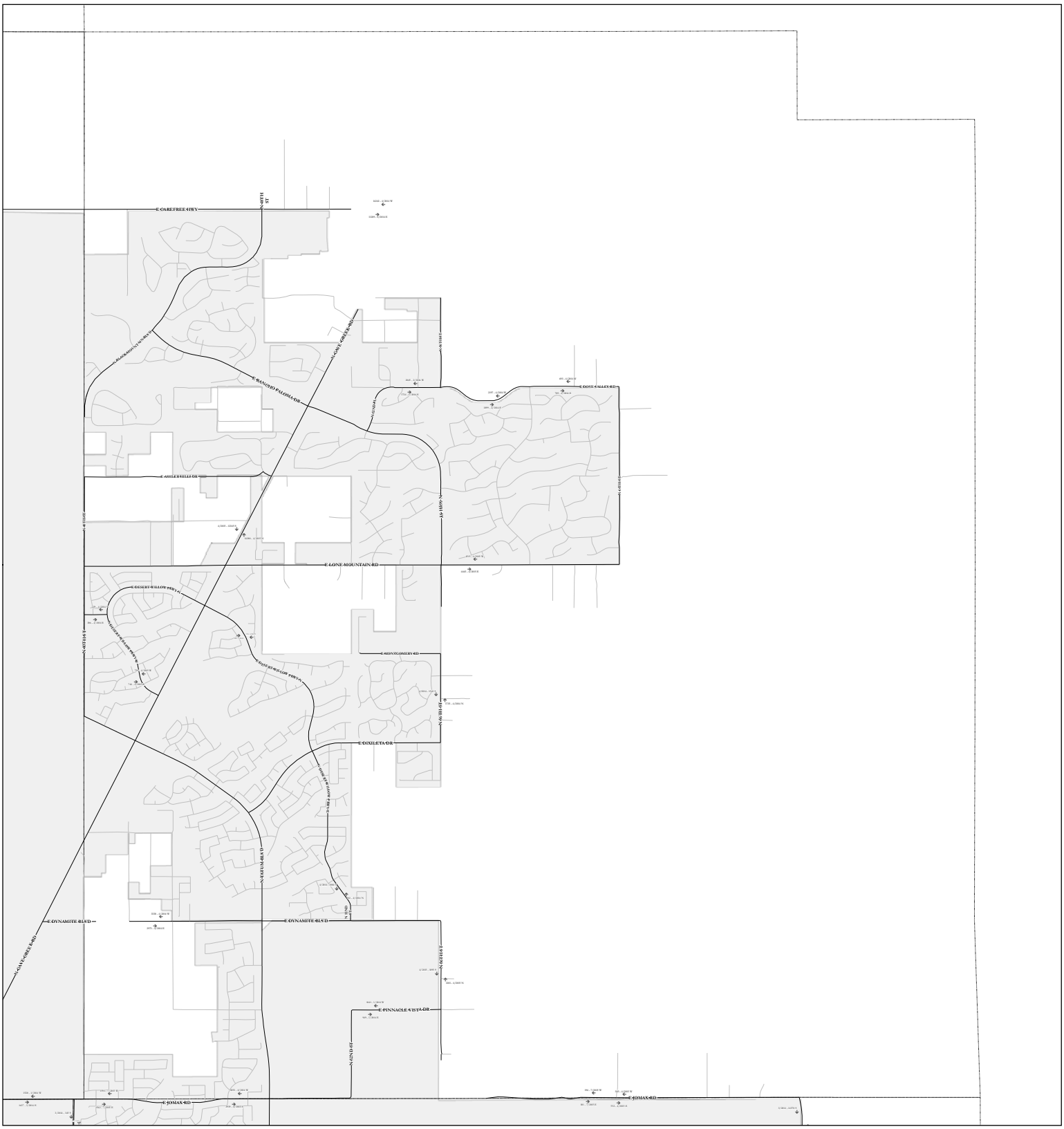
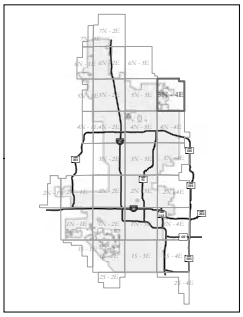
Traffic Volume Map



Township - Range 5N - 4E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



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Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Date: 9/16/2016
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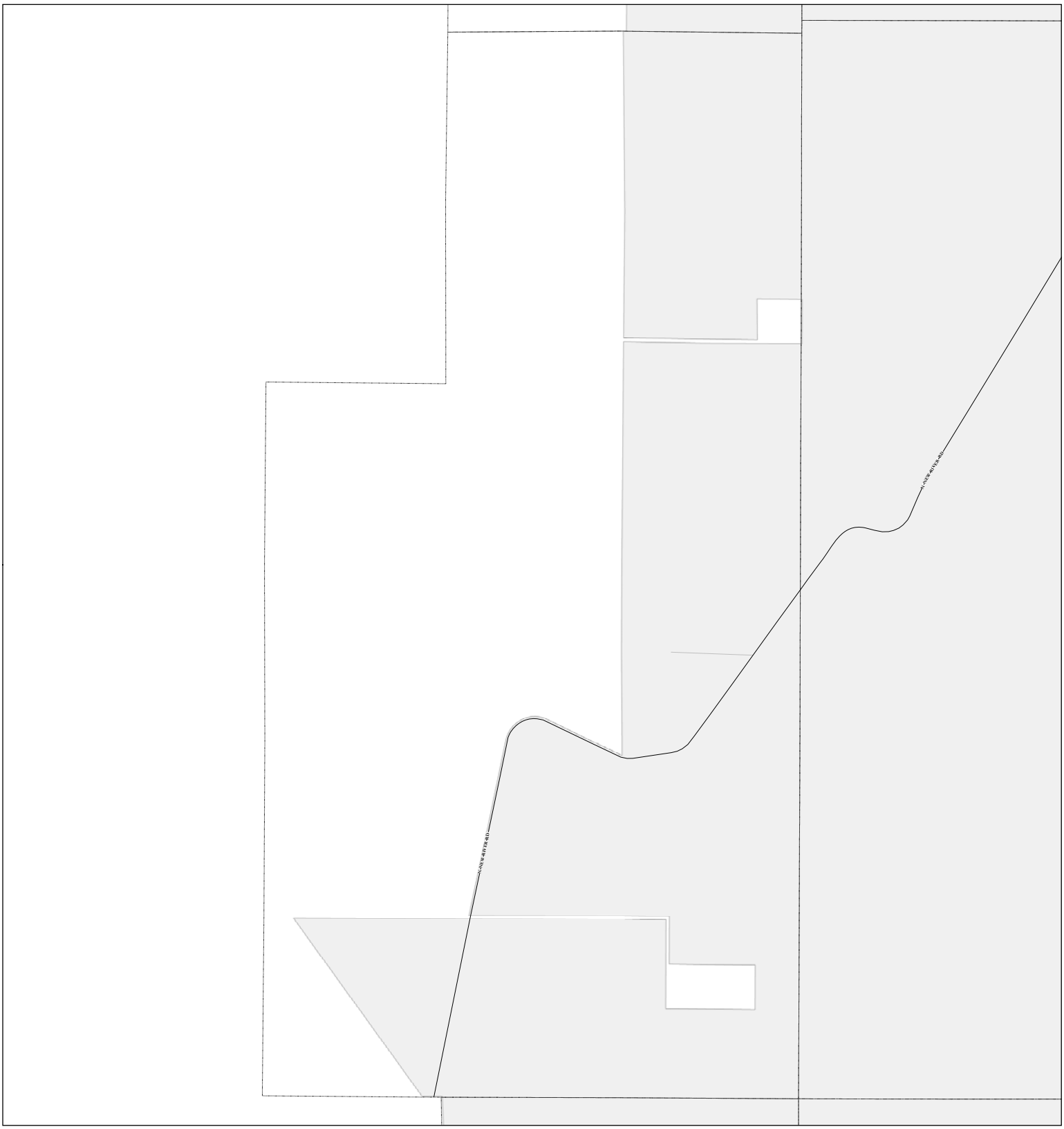
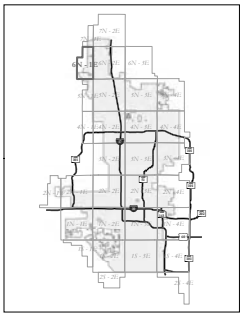
Traffic Volume Map



Township - Range 6N - 1E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N
W E
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Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Date: 9/16/2016
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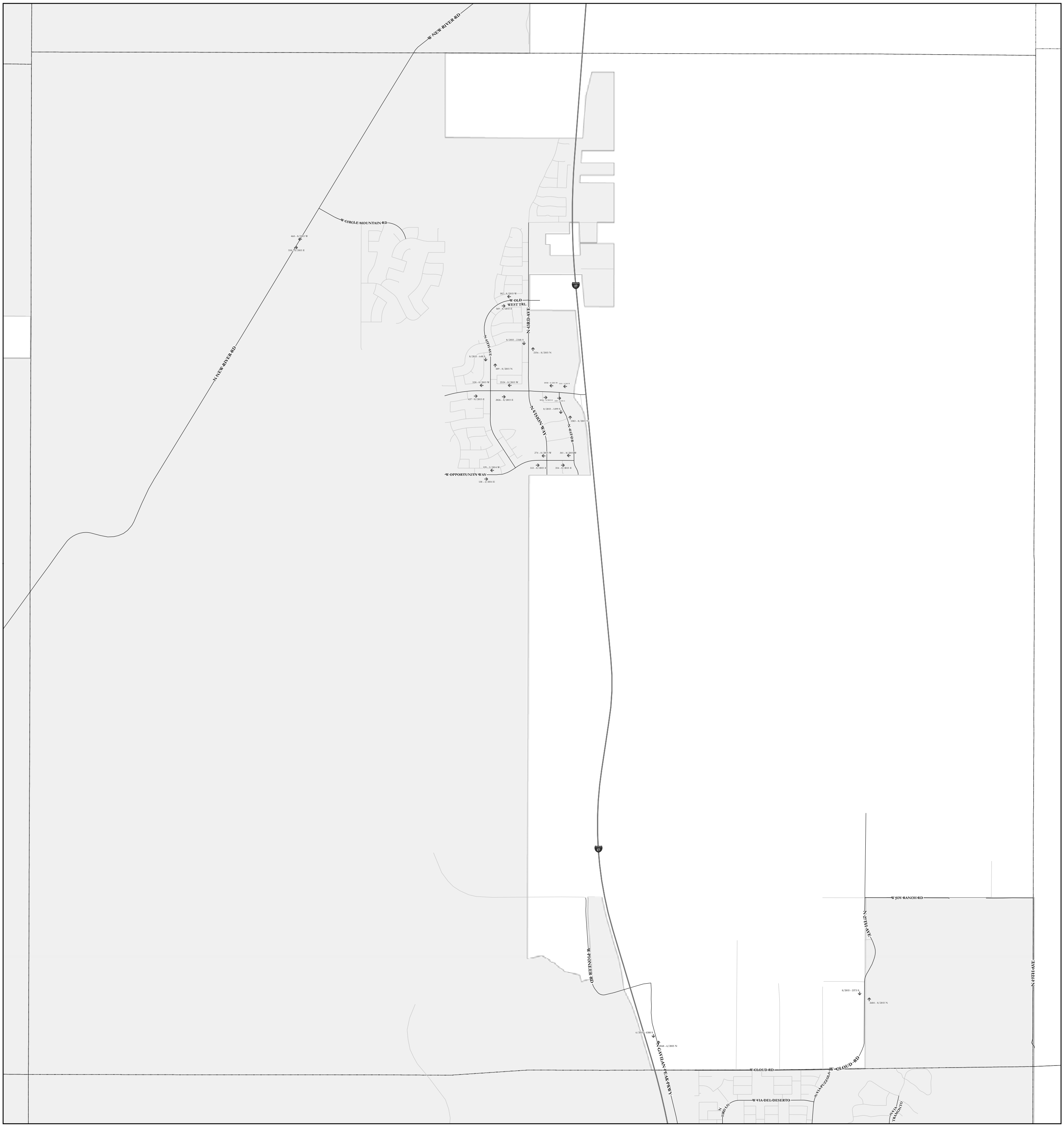
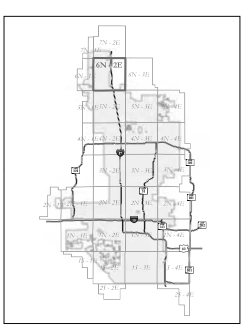
Traffic Volume Map



Township - Range 6N - 2E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



City of Phoenix
Street Transportation Department

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Feet

N
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Traffic Volumes

Northbound
Southbound
Eastbound
Westbound

Major / Collector Streets
Local Streets
Townships
Phoenix City Limits

Date: 9/16/2016
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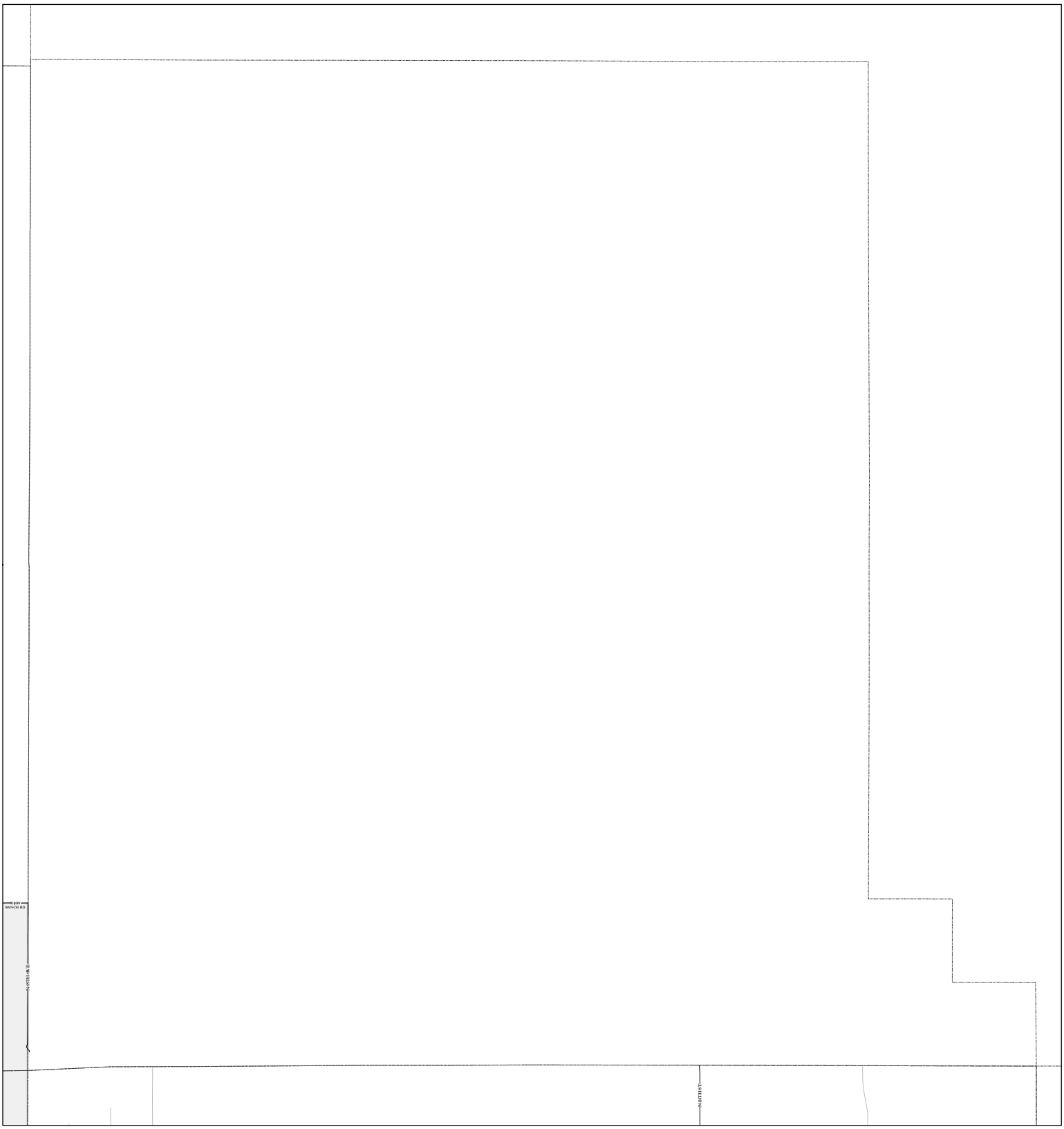
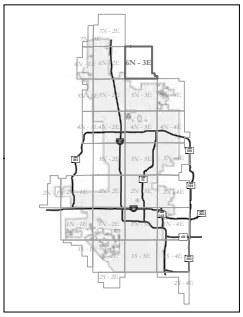
Traffic Volume Map



Township - Range 6N - 3E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N
W E
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Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

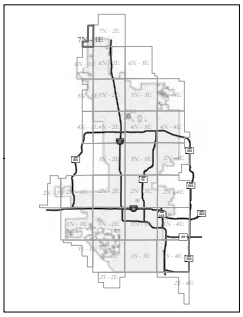
0 2,640 5,280
Feet

Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map

Township - Range 7N - 1E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N
W E
S

Traffic Volumes

- Northbound
- Southbound
- Eastbound
- Westbound

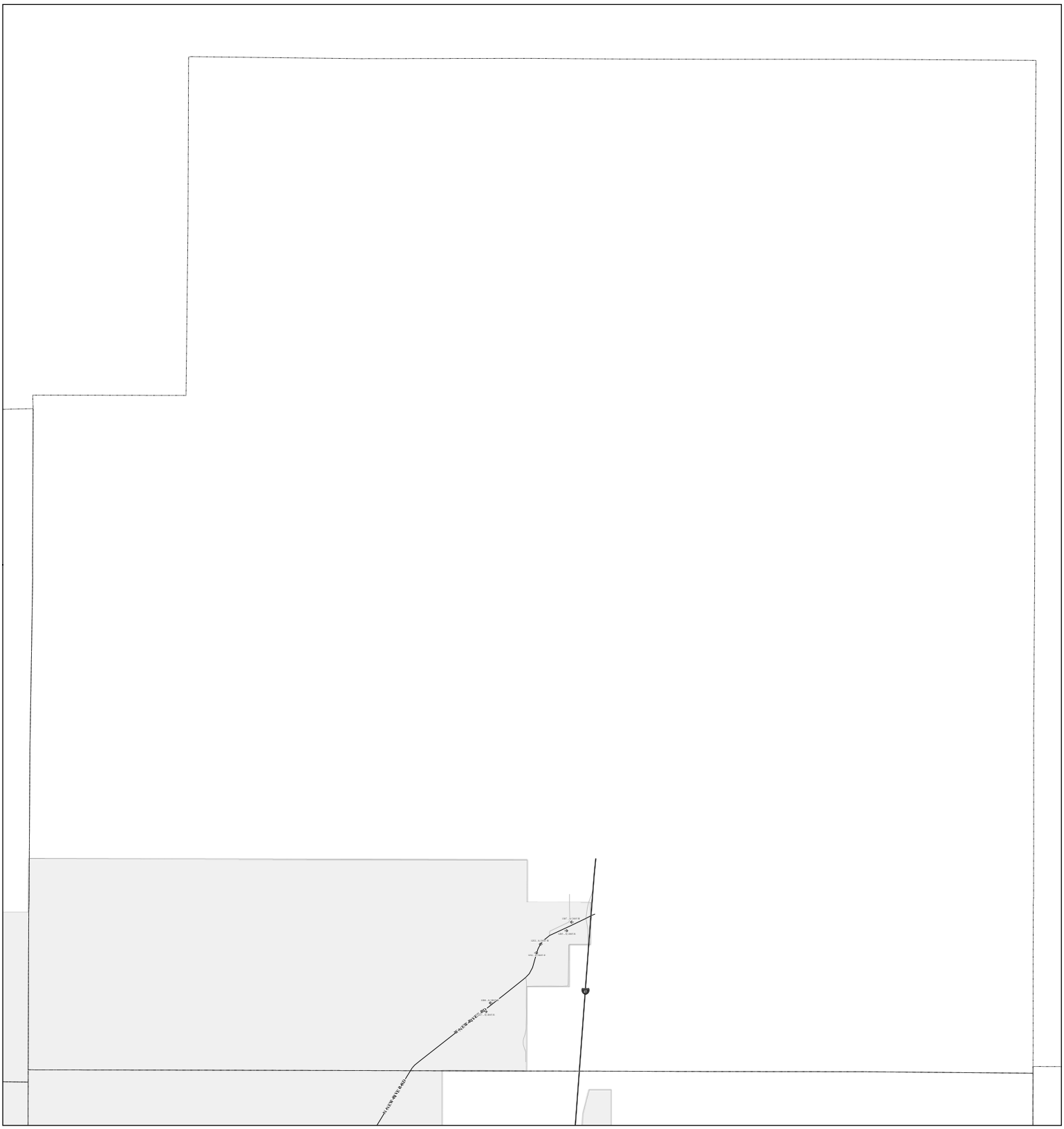
- Major / Collector Streets
- Local Streets
- Townships
- Phoenix City Limits

City of Phoenix
Street Transportation Department

0 2,640
Feet

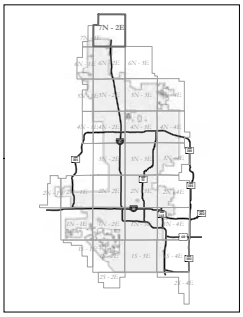
Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Traffic Volume Map



Township - Range 7N - 2E

"The traffic counts contained within this map were normalized to account for daily and seasonal fluctuations in traffic. The numbers may not represent the actual count taken on a particular day but instead have been adjusted to represent anticipated traffic flow on an average day throughout the year".



N
W E
S

Traffic Volumes

- Northbound
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- Eastbound
- Westbound

- Major / Collector Streets
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City of Phoenix
Street Transportation Department

0 2,640 5,280
Feet

Date: 9/16/2016
G:\GISDATA\MAPS\Traffic_Volumes\Dynamic Data\mxd\Traffic_Volumes.mxd

Appendix D

Planning Level Cost Estimate

PEC
PROJECT ENGINEERING CONSULTANTS

ENGINEER'S ESTIMATE
PIPELINE ALIGNMENT STUDY - 24TH ST WTP TO 32ND ST & BELL RD

Item	Alternative No. 1	Alternative No. 1 Option A	Alternative No. 1 Option B	Alternative No. 2	Alternative No. 2 Option A	Alternative No. 2 Option B
General Items	$ 13,242,000.00	$ 12,991,000.00	$ 13,294,000.00	$ 11,596,000.00	$ 11,633,000.00	$ 11,914,000.00
Waterline Items	$ 35,782,000.00	$ 35,108,000.00	$ 35,928,000.00	$ 31,337,000.00	$ 31,436,000.00	$ 32,195,000.00
Contingency	$ 9,805,000.00	$ 9,620,000.00	$ 9,845,000.00	$ 8,587,000.00	$ 8,614,000.00	$ 8,822,000.00
TOTAL	**$ 58,829,000**	**$ 57,719,000**	**$ 59,067,000**	**$ 51,520,000**	**$ 51,683,000**	**$ 52,931,000**

ENGINEER'S ESTIMATE - ALTERNATIVE 1
PIPELINE ALIGNMENT STUDY - 24TH ST WTP TO 32ND ST & BELL RD

General Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
100	Traffic Control (10%)	1	LS	$ 3,579,000	$ 3,579,000
101	Mobilization (7%)	1	LS	$ 2,505,000	$ 2,505,000
102	Engineering (10%)	1	LS	$ 3,579,000	$ 3,579,000
103	Construction Administration (10%)	1	LS	$ 3,579,000	$ 3,579,000
				Subtotal	**$ 13,242,000**

Waterline Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
104	60-inch Water Pipe	56,770	LF	$ 400	$ 22,708,000
105	Trench - Rock Excavation	17,100	LF	$ 50	$ 855,000
106	84-inch Jack And Bore Casing	1,750	LF	$ 2,200	$ 3,850,000
107	60-inch Butterfly Valve Assembly (Valve, Vault & Bypass)	11	EA	$ 90,000	$ 990,000
108	60-inch Pipe Connection	2	EA	$ 35,000	$ 70,000
109	Remove & Replace AC Pavement	51,210	SY	$ 100	$ 5,121,000
110	Cathodic Protection	1	LS	$ 1,284,000	$ 1,284,000
111	20-inch Waterline Vertical Realignment	1	EA	$ 30,000	$ 30,000
112	24-inch Waterline Vertical Realignment	2	EA	$ 35,000	$ 70,000
113	30-inch Waterline Vertical Realignment	4	EA	$ 40,000	$ 160,000
114	48-inch Waterline Vertical Realignment	1	EA	$ 60,000	$ 60,000
115	Relocate 6-inch Water Pipe	500	LF	$ 150	$ 75,000
116	Relocate 24-inch Water Pipe	450	LF	$ 300	$ 135,000
117	Jack and Bore Related Utility Relocates	1	LS	$ 299,000	$ 299,000
118	Right-of-Way	6,250	SF	$ 12	$ 75,000
				Subtotal	**$ 35,782,000**

Totals

Bid Item	Quantity	Unit	Unit Price	Amount
Subtotal				**$ 49,024,000**
Contingency (20%)	1	LS	$ 9,805,000	$ 9,805,000
			TOTAL	**$ 58,829,000**

ENGINEER'S ESTIMATE - ALTERNATIVE 1 - OPTION A
PIPELINE ALIGNMENT STUDY - 24TH ST WTP TO 32ND ST & BELL RD

General Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
100	Traffic Control (10%)	1	LS	$ 3,511,000	$ 3,511,000
101	Mobilization (7%)	1	LS	$ 2,458,000	$ 2,458,000
102	Engineering (10%)	1	LS	$ 3,511,000	$ 3,511,000
103	Construction Administration (10%)	1	LS	$ 3,511,000	$ 3,511,000
				TOTAL	**$ 12,991,000**

Waterline Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
104	60-inch Water Pipe	57,120	FT	$ 400	$ 22,848,000
105	Trench - Rock Excavation	10,000	FT	$ 50	$ 500,000
106	84-inch Jack And Bore Casing	1,550	FT	$ 2,200	$ 3,410,000
107	60-inch Butterfly Valve Assembly (Valve, Vault & Bypass)	11	EA	$ 90,000	$ 990,000
108	60-inch Pipe Connection	2	EA	$ 35,000	$ 70,000
109	Remove & Replace AC Pavement	51,730	SY	$ 100	$ 5,173,000
110	Cathodic Protection	1	LS	$ 1,286,000	$ 1,286,000
111	20-inch Waterline Vertical Realignment	1	EA	$ 30,000	$ 30,000
112	24-inch Waterline Vertical Realignment	2	EA	$ 35,000	$ 70,000
113	30-inch Waterline Vertical Realignment	4	EA	$ 40,000	$ 160,000
114	48-inch Waterline Vertical Realignment	1	EA	$ 60,000	$ 60,000
115	Relocate 6-inch Water Pipe	500	FT	$ 150	$ 75,000
116	Relocate 24-inch Water Pipe	450	FT	$ 300	$ 135,000
117	Jack and Bore Related Utility Relocates	1	LS	$ 226,000	$ 226,000
118	Right-of-Way	6,250	SF	$ 12	$ 75,000
				TOTAL	**$ 35,108,000**

Totals

Bid Item	Quantity	Unit	Unit Price	Amount
Subtotal				**$ 48,099,000**
Contingency (20%)	1	LS	$ 9,620,000	$ 9,620,000
			TOTAL	**$ 57,719,000**

ENGINEER'S ESTIMATE - ALTERNATIVE 1 - OPTION B
PIPELINE ALIGNMENT STUDY - 24TH ST WTP TO 32ND ST & BELL RD

General Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
100	Traffic Control (10%)	1	LS	$ 3,593,000	$ 3,593,000
101	Mobilization (7%)	1	LS	$ 2,515,000	$ 2,515,000
102	Engineering (10%)	1	LS	$ 3,593,000	$ 3,593,000
103	Construction Administration (10%)	1	LS	$ 3,593,000	$ 3,593,000
				TOTAL	**$ 13,294,000**

Waterline Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
104	60-inch Water Pipe	55,560	FT	$ 400	$ 22,224,000
105	Trench - Rock Excavation	14,000	FT	$ 50	$ 700,000
106	84-inch Jack And Bore Casing	1,950	FT	$ 2,200	$ 4,290,000
107	60-inch Butterfly Valve Assembly (Valve, Vault & Bypass)	11	EA	$ 90,000	$ 990,000
108	60-inch Pipe Connection	2	EA	$ 35,000	$ 70,000
109	Remove & Replace AC Pavement	49,900	SY	$ 100	$ 4,990,000
110	Cathodic Protection	1	LS	$ 1,275,000	$ 1,275,000
111	20-inch Waterline Vertical Realignment	1	EA	$ 30,000	$ 30,000
112	24-inch Waterline Vertical Realignment	2	EA	$ 35,000	$ 70,000
113	30-inch Waterline Vertical Realignment	6	EA	$ 40,000	$ 240,000
114	42-inch Waterline Vertical Realignment	2	EA	$ 55,000	$ 110,000
115	Relocate 6-inch Water Pipe	500	FT	$ 150	$ 75,000
116	Relocate 16-inch Water Pipe	1,400	FT	$ 250	$ 350,000
117	Relocate 24-inch Water Pipe	450	FT	$ 300	$ 135,000
118	Jack and Bore Related Utility Relocates	1	LS	$ 304,000	$ 304,000
119	Right-of-Way	6,250	SF	$ 12	$ 75,000
				TOTAL	**$ 35,928,000**

Totals

Bid Item	Quantity	Unit	Unit Price	Amount
Subtotal				**$ 49,222,000**
Contingency (20%)	1	LS	$ 9,845,000	$ 9,845,000
			TOTAL	**$ 59,067,000**

ENGINEER'S ESTIMATE - ALTERNATIVE 2
PIPELINE ALIGNMENT STUDY - 24TH ST WTP TO 32ND ST & BELL RD

General Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
100	Traffic Control (10%)	1	LS	$ 3,134,000	$ 3,134,000
101	Mobilization (7%)	1	LS	$ 2,194,000	$ 2,194,000
102	Engineering (10%)	1	LS	$ 3,134,000	$ 3,134,000
103	Construction Administration (10%)	1	LS	$ 3,134,000	$ 3,134,000
				TOTAL	**$ 11,596,000**

Waterline Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
104	60-inch Water Pipe	47,800	FT	$ 400	$ 19,120,000
105	Trench - Rock Excavation	14,000	FT	$ 50	$ 700,000
106	84-inch Jack And Bore Casing	2,370	FT	$ 2,200	$ 5,214,000
107	60-inch Butterfly Valve Assembly (Valve, Vault & Bypass)	9	EA	$ 90,000	$ 810,000
108	60-inch Pipe Connection	2	EA	$ 35,000	$ 70,000
109	Remove & Replace AC Pavement	35,850	SY	$ 100	$ 3,585,000
110	Cathodic Protection	1	LS	$ 1,002,000	$ 1,002,000
111	30-inch Waterline Vertical Realignment	2	EA	$ 40,000	$ 80,000
112	48-inch Waterline Vertical Realignment	3	EA	$ 60,000	$ 180,000
113	Relocate 6-inch Water Pipe	500	FT	$ 150	$ 75,000
114	Relocate 8-inch Sewer Pipe	670	FT	$ 110	$ 73,700
115	4-inch Sewer Lateral	140	FT	$ 80	$ 11,200
116	Sewer Lateral Connection	14	EA	$ 2,000	$ 28,000
117	Remove Manhole	2	EA	$ 1,500	$ 3,000
118	Sewer Manhole	4	EA	$ 10,000	$ 40,000
119	Jack and Bore Related Utility Relocates	1	LS	$ 195,000	$ 195,000
120	Trail Restoration in PMP	1	LS	$ 150,000	$ 150,000
				TOTAL	**$ 31,337,000**

Totals

Bid Item	Quantity	Unit	Unit Price	Amount
Subtotal				**$ 42,933,000**
Contingency (20%)	1	LS	$ 8,587,000	$ 8,587,000
			TOTAL	**$ 51,520,000**

ENGINEER'S ESTIMATE - ALTERNATIVE 2 - OPTION A
PIPELINE ALIGNMENT STUDY - 24TH ST WTP TO 32ND ST & BELL RD

General Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
100	Traffic Control (10%)	1	LS	$ 3,144,000	$ 3,144,000.00
101	Mobilization (7%)	1	LS	$ 2,201,000	$ 2,201,000.00
102	Engineering (10%)	1	LS	$ 3,144,000	$ 3,144,000.00
103	Construction Administration (10%)	1	LS	$ 3,144,000	$ 3,144,000.00
				TOTAL	**$ 11,633,000**

Waterline Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
104	60-inch Water Pipe	48,300	FT	$ 400	$ 19,320,000
105	Trench - Rock Excavation	14,000	FT	$ 50	$ 700,000
106	84-inch Jack And Bore Casing	2,370	FT	$ 2,200	$ 5,214,000
107	60-inch Butterfly Valve Assembly (Valve, Vault & Bypass)	9	EA	$ 90,000	$ 810,000
108	60-inch Pipe Connection	2	EA	$ 35,000	$ 70,000
109	Remove & Replace AC Pavement	36,000	SY	$ 100	$ 3,600,000
110	Cathodic Protection	1	LS	$ 1,006,000	$ 1,006,000
111	30-inch Waterline Vertical Realignment	2	EA	$ 40,000	$ 80,000
112	48-inch Waterline Vertical Realignment	1	EA	$ 60,000	$ 60,000
113	Relocate 6-inch Water Pipe	500	FT	$ 150	$ 75,000
114	Relocate 8-inch Sewer Pipe	670	FT	$ 110	$ 73,700
115	4-inch Sewer Lateral	140	FT	$ 80	$ 11,200
116	Sewer Lateral Connection	14	EA	$ 2,000	$ 28,000
117	Remove Manhole	2	EA	$ 1,500	$ 3,000
118	Sewer Manhole	4	EA	$ 10,000	$ 40,000
119	Jack and Bore Related Utility Relocates	1	LS	$ 195,000	$ 195,000
120	Trail Restoration in PMP	1	LS	$ 150,000	$ 150,000
				TOTAL	**$ 31,436,000**

Totals

Bid Item	Quantity	Unit	Unit Price	Amount
Subtotal				**$ 43,069,000**
Contingency (20%)	1	LS	$ 8,613,800	$ 8,614,000
			TOTAL	**$ 51,683,000**

ENGINEER'S ESTIMATE - ALTERNATIVE 2 - OPTION B
PIPELINE ALIGNMENT STUDY - 24TH ST WTP TO 32ND ST & BELL RD

General Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
100	Traffic Control (10%)	1	LS	$ 3,220,000	$ 3,220,000.00
101	Mobilization (7%)	1	LS	$ 2,254,000	$ 2,254,000.00
102	Engineering (10%)	1	LS	$ 3,220,000	$ 3,220,000.00
103	Construction Administration (10%)	1	LS	$ 3,220,000	$ 3,220,000.00
				TOTAL	**$ 11,914,000**

Waterline Items

Bid Item Number	Bid Item	Quantity	Unit	Unit Price	Amount
104	60-inch Water Pipe	49,410	FT	$ 400	$ 19,764,000
105	Trench - Rock Excavation	14,000	FT	$ 50	$ 700,000
106	84-inch Jack And Bore Casing	2,370	FT	$ 2,200	$ 5,214,000
107	60-inch Butterfly Valve Assembly (Valve, Vault & Bypass)	9	EA	$ 90,000	$ 810,000
108	60-inch Pipe Connection	2	EA	$ 35,000	$ 70,000
109	Remove & Replace AC Pavement	37,500	SY	$ 100	$ 3,750,000
110	Cathodic Protection	1	LS	$ 1,086,000	$ 1,086,000
111	30-inch Waterline Vertical Realignment	2	EA	$ 40,000	$ 80,000
112	48-inch Waterline Vertical Realignment	3	EA	$ 60,000	$ 180,000
113	Relocate 6-inch Water Pipe	500	FT	$ 150	$ 75,000
114	Relocate 8-inch Sewer Pipe	670	FT	$ 110	$ 73,700
115	4-inch Sewer Lateral	140	FT	$ 80	$ 11,200
116	Sewer Lateral Connection	14	EA	$ 1,000	$ 14,000
117	Remove Manhole	2	EA	$ 1,000	$ 2,000
118	Sewer Manhole	4	EA	$ 5,000	$ 20,000
119	Jack and Bore Related Utility Relocates	1	LS	$ 195,000	$ 195,000
120	Trail Restoration in PMP	1	LS	$ 150,000	$ 150,000
				TOTAL	**$ 32,195,000**

Totals

Bid Item	Quantity	Unit	Unit Price	Amount
Subtotal				**$ 44,109,000**
Contingency (20%)	1	LS	$ 8,822,000	$ 8,822,000
			TOTAL	**$ 52,931,000**

Appendix E

30% Design Plans

PEC
PROJECT ENGINEERING CONSULTANTS

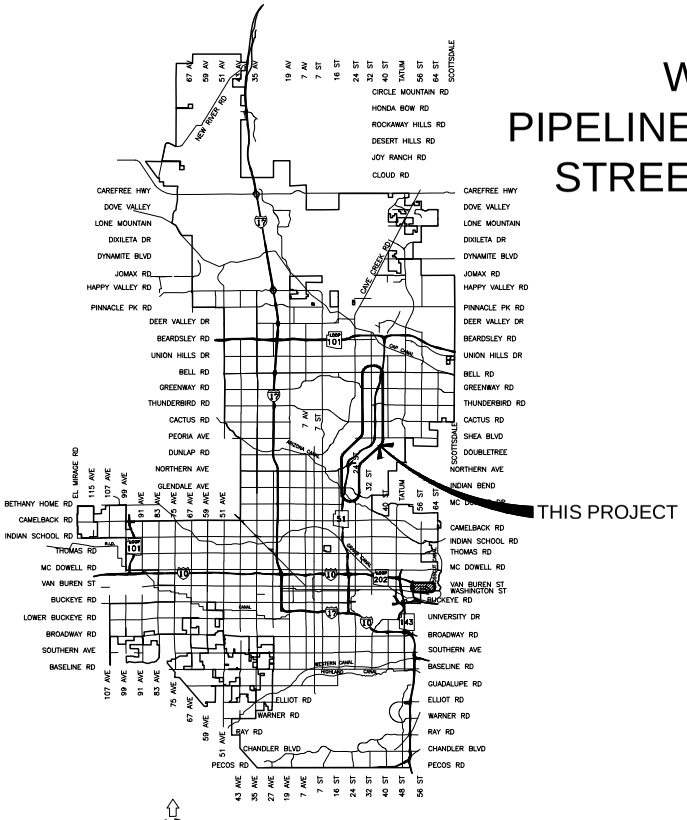
CITY OF PHOENIX
WATER SERVICES DEPARTMENT
PIPELINE ALIGNMENT - 24TH STREET WTP 24TH STREET WTP TO 32ND ST AND BELL ROAD
WS85100047-2

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS85100047-2	1	117	

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

DES	DR:	CK:	DATE:
MVL	JG	SM	04/18



VICINITY MAP
NTS
City of Phoenix
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2018

MAYOR
GREG STANTON

CITY MANAGER
CITY MANAGER – ED ZUERCHER

CITY COUNCIL

DISTRICT NO 1.	THELDA WILLIAMS
DISTRICT NO 2.	JIM WARING
DISTRICT NO 3.	DEBRA STARK
DISTRICT NO 4.	LAURA PASTOR
DISTRICT NO 5.	DANIEL VALENZUELA
DISTRICT NO 6.	SAL DICICCIO
DISTRICT NO 7.	MICHAEL NOWAKOWSKI
DISTRICT NO 8.	KATE GALLEGO

INDEX OF SHEETS

SHEET NO.	SHEET TITLE
1	COVER SHEET
2	LEGEND AND NOTES SHEET
3	NOTES AND ABBREVIATIONS SHEET
4 – 5	KEY MAP
6 – 117	WATER LINE PLAN AND PROFILE SHEETS

PROJECT BENCHMARKS

CITY OF PHOENIX BRASS CAP IN HANDHOLE
AT INTERSECTION OF 7TH STREET & THUNDERBIRD ROAD
ELEV 1368.375 (CITY OF PHOENIX DATUM)

CITY OF PHOENIX BRASS CAP IN HANDHOLE
AT INTERSECTION OF 32ND STREET & PARADISE LANE
ELEV 1440.62 (CITY OF PHOENIX DATUM)

CITY OF PHOENIX BRASS CAP IN HANDHOLE
AT INTERSECTION OF 28TH STREET & CACTUS ROAD
ELEV 1423.63 (CITY OF PHOENIX DATUM)

CITY OF PHOENIX BRASS CAP IN HANDHOLE
AT INTERSECTION OF 20TH STREET (SOUTH) & GLENDALE AVENUE
ELEV 1278.82 (CITY OF PHOENIX DATUM)

APPROVED FOR THE CITY OF PHOENIX:

COUNTY HEALTH DELEGATE PLANNING AND DEVELOPMENT DEPARTMENT	DATE
DEPUTY STREET TRANSPORTATION DIRECTOR	DATE
WATER SERVICES DEPARTMENT	DATE
MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT	DATE

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING. PAVEMENT CUT SURCHARGE FEES IS ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.

PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA 811
Call 811 or click Arizona811.com

Q.S. 22-31, 22-32, 23-31, 23-32, 24-32, 25-32, 26-32, 26-33, 27-33, 27-34, 28-34, 28-35, 29-34, 29-35, 30-34, 30-35, 31-34, 31-35, 32-34, 32-35, 33-34, 33-35, 34-34, 34-35, 35-34, 35-35, 36-34, 36-35

WS85100047-2 30% SUBMITTAL

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

LEGEND AND NOTES

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047–2	2	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

LEGEND

- BENCHMARK
- NEW SURVEY MONUMENT – M.A.G. DETAIL 120–1 TYPE "B"
- NEW SURVEY MONUMENT – M.A.G. DETAIL 120–1 TYPE "A"
- COMBINED CURB & GUTTER – M.A.G. DETAIL 220 TYPE "A"
- BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT – C.O.P. DETAIL P1200
- EXISTING CONCRETE PAVEMENT OR SIDEWALK
- NEW CONCRETE SIDEWALK – STD. DETAIL P1230
- NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
- NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- AVERAGE GROUND ELEVATION AT R/W LINE
- BACKFILL COMPACTION TYPE
- EXISTING DITCH
- 24" IRR (SRP) — EXISTING IRRIGATION LINE W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
- EXISTING IRRIGATION STRUCTURE
- EXISTING IRRIGATION STANDPIPE
- NEW IRRIGATION STANDPIPE – M.A.G. DETAIL 503
- NEW IRRIGATION VALVE – M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
- IRRIGATION BERM
- NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
- 12" DIP W — EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
- 36" DIP W — EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
- ADJUST EXIST. WATER VALVE BOX – C.O.P. DETAIL P1391
- 3/4" W — WATER SERVICE W/SIZE AND WATER METER BOX
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- T.N. — EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
- 8" VCP S — EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
- 30" VCP S — EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- NEW MANHOLE
- CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- 30" SD (RCP) — EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
- NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
- 4"G — EXISTING GAS LINE W/SIZE
- E — EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- E-40 — EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- T — EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- T-40 — EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- CATV — EXISTING UNDERGROUND CABLE TV
- FO — EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- EXISTING STREET OR TRAFFIC SIGN
- EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- EXISTING WIRE FENCE
- EXISTING BLOCK FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING WOOD FENCE
- EXISTING METAL FENCE
- MAIL BOX
- EXISTING POWER POLE DOWN GUY ANCHOR
- EXISTING STREET LIGHT & POLE
- EXISTING TREE OR STUMP TO BE REMOVED – MORE THAN 12" DIA.
- EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE
- EXISTING TREE OR STUMP TO BE REMOVED 12" DIA. OR LESS (NON PAY ITEM)
- EXISTING TREE TO REMAIN

WATER GENERAL NOTES

1. PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28. THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.
2. ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE UNIFORM STANDARD DETAILS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) AND THE PHOENIX SUPPLEMENTAL STANDARD DETAILS AND SPECIFICATIONS (NEWEST EDITION). SIX INCH AND TWELVE INCH DIAMETER PIPES SHALL BE MINIMUM 150 P.S.I. DESIGN PRESSURE COMPLIANT WITH MAG SPECIFICATIONS.
3. ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
4. ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS GRANTED FOR THE WATER AND/OR SEWER MAIN INSTALLATION.
5. TRAFFIC CONTROL SHALL CONFORM TO THE RIGHT–OF–WAY MANAGEMENT PROGRAM (RMP), ADOPTED BY THE CITY OF PHOENIX AND SHALL ALSO BE SUBJECT TO CITY REVIEW AND APPROVAL.
6. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH HORIZONTAL AND VERTICAL CONTROLS ARE LOCATED APPROXIMATELY TO THE BEST INFORMATION AVAILABLE.
7. EXISTING UTILITIES AND OTHER FACILITIES SHOWN ON PLANS ARE BASED ON INFORMATION OBTAINED FROM FIELD SURVEY, EXISTING MAPS AND AS–BUILTS AND OTHER PLANS WITHIN THE AREA OF THIS PROJECT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND/OR ELEVATION OF EXISTING UTILITIES WHICH PERTAIN TO AND MAY AFFECT THE CONSTRUCTION.
8. TWO DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CALL "BLUE STAKE" AT 263–1100 FOR THE LOCATION AND IDENTIFICATION OF THE UNDERGROUND UTILITIES.
9. ALL DIMENSIONS SHOWN ARE TO THE MONUMENT LINE IN RIGHT OF WAY, UNLESS NOTED OTHERWISE.
10. ALL BURIED VALVES SHALL INCLUDE A VALVE BOX AND COVER UNLESS OTHERWISE NOTED. VALVE BOX AND COVER SHALL BE INSTALLED PER C.O.P. SUPPLEMENT TO MAG STANDARD DETAIL P–1391–1, TYPE A.
11. BIDDERS ARE ADVISED THAT THE LOCATION, NUMBER, AND TYPE OF UTILITIES SHOWN ON THESE PLANS AND SPECIFICATIONS ARE ONLY AS ACCURATE AS THE BEST INFORMATION AVAILABLE FROM PUBLIC UTILITIES, OWNERS, AND USERS AT THE TIME THESE PLANS AND SPECIFICATIONS WERE PREPARED. UNDERGROUND UTILITIES MAY BE PRESENT ON THIS PROJECT WHICH WERE NOTE DISCLOSED TO THE ENGINEER. NO REPRESENTATION IS MADE THAT THE UTILITY LOCATIONS INDICATED ON THESE PLANS ARE ACCURATE, COMPLETE, OR EXCLUSIVE. BIDDERS ARE ADVISED TO UNDERTAKE THEIR OWN INVESTIGATIONS OF EXISTING CONDITIONS BEFORE SUBMITTING A PROPOSAL ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL TEST PITS OR THE PRE–CONSTRUCTION INVESTIGATION OF UNDERGROUND UTILITIES OR STRUCTURE. PURSUANT TO ARIZONA REVISED STATUTE 40–360.21, THE CONTRACTOR MUST CONTACT "BLUE STAKE" AT (602) 261–1100 OR THE APPROPRIATE PUBLIC UTILITY FOR ASSISTANCE IN LOCATING UNDERGROUND FACILITIES, LINES, AND APPURTENANCES PRIOR TO CONSTRUCTION.
12. BY SUBMITTING A PROPOSAL ON THIS PROJECT, BIDDERS ARE REPRESENTING THAT THEY HAVE CONSIDERED THE POTENTIAL IMPACT OF TEMPORARY OR PERMANENT RELOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED WITHIN THE PROJECT ON THE THEIR COSTS, AND THAT THEY HAVE INCLUDED IN THEIR PROPOSALS THE COST OF FINDING, PROTECTING, AND RELOCATING ALL EXISTING UTILITIES WITHIN THE PROJECT. NO ADDITIONAL COMPENSATION FOR DAMAGES WILL BE PAID FOR ANY COST, LOSS, DAMAGE, HINDRANCE, OR DELAY INCURRED BY A CONTRACTOR OR SUBCONTRACTOR DUE TO CONFLICTS WITH EXISTING UTILITIES; REGARDLESS OF WHETHER OR NOT THOSE UTILITIES ARE INDICATED ON THE PLANS OR SPECIFICATIONS FOR THIS PROJECT.
13. THE SOLE AND EXCLUSIVE REMEDY FOR ANY COST, HINDRANCE, OR DELAY CAUSED BY ANY UTILITIES LOCATED WITHIN THE PROJECT (WHETHER OR NOT INDICATED ON THE PLANS OR SPECIFICATIONS) SHALL BE AN EXTENSION OF THE CONTRACT TIME; THE NEED FOR OR DURATION OF WHICH SHALL BE DETERMINED BY THE ENGINEER IN ITS SOLE DISCRETION.
14. THE CONTRACTOR SHALL DEFLECT PIPE JOINTS PER MANUFACTURER'S RECOMMENDATIONS AND OR PROVIDE FITTINGS IN ORDER TO PROVIDE A CONSISTENT OFFSET FROM THE CENTERLINE OF THE ROADWAY AS SHOWN ON THE PLANS.
15. CITY OF PHOENIX INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS, TELEPHONE (602) – .
16. MINIMUM DEPTH OF COVER ON TRANSMISSION MAIN IS 6.5 FT (TOP OF PIPE). FOLLOW SLOPES AND INVERTS AS SHOWN ON PLAN AND MAINTAIN MINIMUM DEPTH. IF ANY DEVIATION FROM PLAN IS REQUIRED CONTRACTOR MUST CONTACT THE ENGINEER TO DETERMINE ANY REVISIONS NEEDED PRIOR TO PROCEEDING.
17. PER MAG SECTION 630, THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND TECHNICAL DATA REQUIRED FOR EVALUATING AND APPROVAL OF EACH TYPE OF VALVE, TAPPING SLEEVE AND VALVE AND BUTTERFLY VALVE. SHOP DRAWINGS MUST BE SUBMITTED TO WATER SERVICES AFTER THE ENGINEER OF RECORD HAS PROVIDED THEIR RECOMMENDATION OR APPROVAL.
18. FIRE HYDRANT BONNET TO BE PAINTED BLACK PER PHOENIX FIRE CODE ARTICLE 9, REVISED, 903.4.4.3 SINCE THIS IS A DEWATERING OR AIR RELEASE POINT.
19. TWO WATER VALVES ARE REQUIRED FOR FIRE HYDRANT CONNECTIONS; ONE VALVE NEAR THE MAIN AND ONE VALVE NEAR THE FIRE HYDRANT.
20. FOR SHUTDOWN REQUESTS NECESSARY TO ACCOMPLISH APPROVED WORK SHALL BE ADDRESSED AT THE PROJECT PRE–CONSTRUCTION MEETING, WITH THE CONTRACTOR CONTINUALLY PROVIDING SCHEDULE UPDATES AS CONSTRUCTION PROGRESSES. THE FORM TO REQUEST A SHUTDOWN CAN BE OBTAINED BY THE CITY PROJECT MANAGER. THE CONTRACTOR SHALL INITIATE A WRITTEN SHUTDOWN REQUEST EARLY IN THE PROJECT AND PROVIDE A COPY OF THE CURRENT CONSTRUCTION SCHEDULE. EACH SHUTDOWN REQUEST SHALL SPECIFY THE LOCATION, SIZE OF WATER MAIN, DATE AND TIME, AND THE DURATION. WRITTEN NOTIFICATION WILL BE GIVEN TO THE CONTRACTOR ONCE THE SHUTDOWN SCHEDULE IS APPROVED. ANY SUBSEQUENT SCHEDULE REVISIONS REQUESTED BY THE CONTRACTOR MUST ALSO BE IN WRITING.

ADDITIONAL WATER NOTES

21. A LIMITED SHUTDOWN OF THE INVOLVED WATER MAIN WILL BE ALLOWED ONLY BETWEEN OCTOBER 15TH AND APRIL 15TH, AND NOT DURING CANAL OUTAGES OR OTHER WORK OCCURRING IN THAT PART OF THE SYSTEM. THE MAXIMUM ALLOWABLE SHUTDOWN PERIOD WILL BE DETERMINED BY THE WATER SERVICES DEPARTMENT.
22. ONCE THE EXISTING WATER PIPE IS CUT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE PIPE CLEAN AND FREE OF DIRT AND DEBRIS BY CAPPING THE ENDS UNTIL THE FINAL CONNECTIONS CAN BE COMPLETED. PRIOR TO THE FINAL CONNECTIONS, THE EXISTING PIPE SHALL BE SWABBED WITH A MINIMUM 50 PPM CHLORINE SOLUTION FOR A DISTANCE OF 1–FEET FROM THE OPENING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NEGATIVE BACTERIOLOGICAL RESULTS PRIOR TO THE LINE BEING RETURNED TO SERVICE.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESSIBILITY TO THE VALVE OPERATING NUT FOR ALL VALVES, WITHIN THE PROJECT BOUNDARIES. FAILURE TO MAINTAIN ACCESSIBILITY TO VALVES SHALL BE CAUSE FOR CANCELING THE SHUTDOWN AND THE CONTRACTOR MUST PROPERLY REQUEST A SCHEDULE REVISION.
24. THE WATER SERVICES DEPARTMENT IS INDEMNIFIED FOR ANY AND ALL RESULTANT COSTS INCURRED BY THE CONTRACTOR SUCH AS, BUT NOT LIMITED TO TRAFFIC CONTROL, DELAYS, LOSS OF INCENTIVES, STANDBY AND PENALTIES IF THE CONTRACTOR DID NOT PROPERLY REQUEST A SHUTDOWN; OR FAILED TO MAINTAIN ACCESSIBILITY TO VALVES; OR ON THE SCHEDULED DATE WORK HAD NOT PROGRESSED TO THE POINT AT WHICH THE SHUTDOWN WAS NEEDED.
25. ALL WATER VALVE BOXES SHALL BE PER CITY OF PHOENIX DETAIL P–1391, TYPE A ONLY.
26. THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:

    370 VERTICAL REALIGNMENT OF WATER MAINS
    381 ANCHOR BLOCKS FOR VERTICAL BENDS
    390 CURB STOP WITH FLUSHING PIPE
    391–1 VALVE BOX INSTALLATION
27. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 AND CITY PHOENIX SUPPLEMENTS.
28. THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.
29. A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION FROM ANY UNDERGROUND UTILITY SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM HORIZONTAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO BE OUTSIDE OF UNDERGROUND UTILITY.
30. A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM ANY DRY UNDERGROUND UTILITY CROSSING SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF DRY UNDERGROUND UTILITY.
31. A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY SEWER AND STORM DRAIN CROSSING A WATER MAIN. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER MAIN OR STORM DRAIN MAIN. SEE M.A.G. STANDARD DETAIL 404 FOR ADDITIONAL INFORMATION AND/OR PROVISIONS FOR CLEARANCE.
32. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
33. RECORD DRAWING SUBMITTALS MUST COMPLY PER THE WATER SERVICES DEPARTMENT ENGINEERING POLICY P–85 A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT'S WEBSITE: HTTP: //PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML
34. IN ACCORDANCE WITH AAC R18–4–119, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO AAC R18–4–213.

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING. PAVEMENT CUT SURCHARGE FEES IS ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.

PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA 811
Call 811 or click Arizona811.com

LEGEND AND NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ NONE VERT			2	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	3	117

30%
PRELIMINARY NOT FOR CONSTRUCTION

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

STRUCTURAL NOTES

1. "CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.
2. ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.
3. ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ARIZONA DEPT. OF TRANSPORTATION STANDARD SPECIFICATION 601–3.05 – FINISHING CONCRETE, UNLESS OTHERWISE SPECIFIED.

SOUTHWEST GAS NOTES:

1. GAS PIPING COATING/WRAPPING MAY CONTAIN ASBESTOS. CONFLICTING PIPING MUST BE REMOVED BY ONE OF SOUTHWEST GAS CORPORATION'S NESHAP CERTIFIED CONTRACTORS. THE CERTIFIED CONTRACTORS WILL REMOVE THE PIPE DURING THE WORK HOURS OF 7:00 AM TO 3:30 PM, MONDAY THROUGH FRIDAY. THE COSTS OF THE CERTIFIED NESHAP CONTRACTORS, ABANDONMENT MATERIALS, STORAGE AND TRANSPORTATION SHALL BE AT THE COST OF THE CONTRACTOR. THE CONTRACTOR SHALL EXCAVATE TO WITHIN 1 FOOT OF THE EXISTING GAS PIPING TO BE REMOVED. THE CONTRACTOR SHALL PROVIDE SHORING, PLATING, TRAFFIC CONTROL AND COORDINATION AS REQUIRED FOR SOUTHWEST GAS CORPORATION TO REMOVE THE GAS PIPING. THE CONTRACTOR SHALL CONTACT SOUTHWEST GAS CORPORATION AT LEAST ONE WEEK PRIOR TO CONSTRUCTION AT 602–484–5256 TO COORDINATE THE REMOVAL OF THE ABANDONED PIPE. TO HAVE SMALL SECTIONS OF 10 FOOT OR LESS OF POTENTIALLY CONFLICTING GAS PIPING REMOVED THE CONTRACTOR SHALL CONTACT SOUTHWEST GAS CORPORATION AT 602–271–4277.
2. DURING PROJECT CONSTRUCTION ALL GAS PIPELINE VALVES, LINE LOCATING STATIONS, TEST POINTS, UNDERGROUND VAULTS SHALL BE KEPT ACCESSIBLE AT ALL TIMES.
3. CONTACT SOUTHWEST GAS CONSTRUCTION AT TEMPE OPERATIONS 480–730–3670 FOR COORDINATING WORK AND INSPECTIONS. FOR EMERGENCIES CALL 1–800–528–4277
4. ONCE MECHANICAL TRENCHING IS IN PROGRESS, DO NOT ATTEMPT TO TRENCH WITHIN TWO FEET OF A GAS PIPE. THE TRENCHING SHALL BE DONE BY HAND IN ORDER TO PREVENT ANY DAMAGE TO THE GAS PIPE. IN THE EVENT THE CONTRACTOR SHOULD "HOOK" OR OTHERWISE STRAIN A GAS PIPE WHILE EXCAVATING, IMMEDIATELY CALL 1–800–528–4277 OR 911.
5. WHEN EXCAVATIONS ARE COMPLETE, ALL EXPOSED GAS PIPES SHALL BE PROTECTED. IF LEFT UNATTENDED, THE EXPOSED PIPE SHALL BE SURROUNDED WIT HAT LEAST 6 INCHES BELOW AND 6 INCHES ABOVE WITH PORTLAND CEMENT CONCRETE FINE AGGREGATE SAND. IF THE TRENCH IS MORE THAN 3 FEET WIDE, THE PIPE MUST BE SUPPORTED IN A MANNER WHERE THE SUPPORTING MATERIAL DOES NOT DAMAGE THE PIPE OR THE PROTECTIVE COATING. CONTACT SOUTHWEST GAS ENGINEERING AT 480–730–3855 TO REVIEW AND APPROVE ALL PROPOSED PIPE SUPPORT DESIGNS.
6. WHEN BACKFILLING, SOUTHWEST GAS REQUIRES BOTH SIX INCHES OF BEDDING AND SIX INCHES OF SHADING WITH SAND OR MATERIAL FREE OF ROCKS AND ABLE TO PASS THROUGH A 3/8 INCH SCREEN. DO NOT DROP BACKFILL DIRECTLY OVER THE GAS PIPE. DURING THE COMPACTION PROCESS, USE EXTRA CARE WHEN DIRECTLY OVER THE GAS PIPE IN ORDER TO AVOID AND DAMAGE.

PROJECT NOTES

1. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING APS OVERHEAD AND UNDERGROUND FACILITIES NOT IMPACTED BY THE CONSTRUCTION OF THIS PROJECT.
2. APS FACILITIES THAT ARE NOT IN CONFLICT, BUT MAY REQUIRE ANY POLE BRACING, ADJUSTMENTS OF MANHOLES TO GRADE (REQUIRES PRESENCE OF APS INSPECTOR), TEMPORARY RELOCATIONS OF OVERHEAD AND REQUIRED OUTAGES (DUE TO CONSTRUCTION OF PROJECT) WILL BE AT THE COST OF THE CONTRACTOR.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN MINIMUM OSHA CLEARANCES FROM APS OVERHEAD AND UNDERGROUND FACILITIES. NO EQUIPMENT, SPOIL PILES ETC. SHALL BE PLACED BENEATH AND/OR OVER APS FACILITIES.
4. HAND DIG WITHIN 2 FEET OF ENERGIZED UNDERGROUND ELECTRICAL FACILITIES.
5. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE WRAPPED IN COMPLIANCE WITH MAG SPECIFICATIONS AND CITY SUPPLEMENTS.
6. ALL EXISTING UTILITY CROSSINGS SHALL BE SUPPORTED PER MAG STANDARD DETAIL 403–1, 403–2 OR PER THE UTILITY OWNERS REQUIREMENTS. ALL CROSSING SUPPORTS SHALL BE A NON PAY ITEM AND SHALL BE INCLUDED IN THE COST OF PIPE.
7. ALL RESTRAINED PIPE LENGTHS SHALL BE PER MAG 303–2 FOR POLYETHYLENE WRAPPED PIPE
8. PER PHOENIX FIRE CODE ARTICLE 9, REVISED 903.4.4.3, THE FIRE HYDRANTS SHOWN ON THIS PLAN SHALL HAVE A BLACK BONNET TO IDENTIFY ITS PURPOSE WHICH SHALL BE USED FOR DEWATERING OR AS AN AIR RELEASE POINT IN THE SYSTEM.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIFICATIONS; PLANS; CITY OF PHOENIX SUPPLEMENTS TO MAG STANDARD SPECIFICATIONS AND DETAILS; AND MAG STANDARD SPECIFICATIONS AND DETAILS, IN THAT ORDER OF PRECEDENCE, AT THE TIME OF CONSTRUCTION BID.
2. ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS.
3. PIPE CONNECTIONS TO EXISTING CONCRETE PIPE MAINS SHALL BE MADE IN ACCORDANCE WITH DETAILS CALLED OUT ON THE PLANS. OPPOSING LATERAL CONNECTIONS TO MAINS SHALL NOT BE CLOSER THAN 5', CENTER TO CENTER.
4. PIPE CONNECTIONS TO NEW PRECAST CONCRETE PIPE MAINS, SHALL BE MADE WITH FACTORY MADE WYES OR TEES. THE DETAIL OF THE FITTINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. PIPE CONNECTIONS TO NEW CAST IN PLACE CONCRETE PIPE MAINS SHALL BE MADE PER C.O.P. DETAIL P1576.
5. CATCH BASIN CONNECTOR PIPES SHALL BE LAID ON A STRAIGHT ALIGNMENT AND SLOPE UNLESS OTHERWISE SPECIFIED. IF BREAKS IN ALIGNMENT OR SLOPE ARE NECESSARY TO MEET FIELD CONDITIONS. THE MAXIMUM DEFLECTION SHALL BE 22–1/2'. THE BEND SHALL BE COLLARED ACCORDING TO C.O.P. DETAIL P1505. ANY ANGLE BENDS GREATER THAN 22–1/2' SHALL BE PREFABRICATED.
6. CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22–1/2' FROM PERPENDICULAR.
7. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INITIATION OF CONSTRUCTION.
8. AT LEAST TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.
9. VERTICAL CONTROL IS BASED ON NATIONAL GEODETIC SURVEY.
10. UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE.
11. UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.
12. CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN. ELEVATIONS SHOWN FOR CATCH BASINS ARE AT TOP OF THE PROPOSED CURB AT THE CENTERLINE OF THE CATCH BASIN, UNLESS OTHERWISE SPECIFIED.
13. SANITARY SEWER MAINS AND TAPS CROSSING OVER STORM DRAIN SHALL BE PERMANENTLY SUPPORTED PER M.A.G. DETAIL 403–1 OR 403–2 OR AS NOTED ON PLANS. WHERE NOT OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AND SUPPORT AND PROTECT ALL UTILITIES IN PLACE DURING CONSTRUCTION. THIS WORK IS INCLUDED IN THE UNIT PRICE OF THE INSTALLATION OF THE PIPE AND IS A NON–PAY ITEM.
14. CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER C.O.P. DETAIL P–1561.
15. STORM WATER CONVEYANCE ALLOWING FOR DISCHARGE TO HISTORIC PATHWAYS ARE TO BE PROVIDED DURING ALL PHASES OF CONSTRUCTION.
16. ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS GRANTED FOR THE WATER AND/OR SEWER MAIN INSTALLATION. ANY EXISTING FEATURES DISTURBED OUTSIDE THESE LIMITS SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
17. TRAFFIC CONTROL SHALL CONFORM TO THE CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL" AND SHALL BE SUBJECT TO CITY REVIEW AND APPROVAL.
18. VEHICULAR AND PEDESTRIAN TRAFFIC ON ADJACENT ROADWAYS MUST BE PROTECTED AND MAINTAINED DURING ALL CONSTRUCTION OPERATIONS. THE REQUIREMENTS FOR SIGNING AND BARRICADES OF THE CITY OF PHOENIX STREET TRANSPORTATION DEPARTMENT MUST BE FOLLOWED.
19. THE CONTRACTOR SHALL MAINTAIN RESIDENTIAL ACCESS FOR LOCAL TRAFFIC ALONG PALM LANE DURING THE PROJECT. ANY TRAFFIC RESTRICTION SHALL BE REVIEWED AND BE ACCEPTED BY THE IMPACTED OWNER 48 HOURS PRIOR TO ROADWAY RESTRICTION.
20. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH HORIZONTAL AND VERTICAL CONTROLS ARE LOCATED APPROXIMATELY TO THE BEST INFORMATION AVAILABLE.
21. ALL WORK SHALL INCLUDE REMOVAL, RELOCATION AND MODIFICATIONS TO EXISTING PIPING FACILITIES, IRRIGATION FACILITIES, FENCING, STRUCTURES, ETC. AS REQUIRED TO CONSTRUCT THE FACILITIES. THE CONTRACTOR SHALL SUPPORT, REMOVE AND REPLACE EXISTING UTILITIES AS REQUIRED FOR INSTALLATION OF PROPOSED WATER, SEWER, STORM DRAIN, IRRIGATION AND OTHER PROPOSED FACILITIES INDICATED ON THE PLANS. THE CONTRACTOR SHALL COORDINATE EXISTING UTILITY REMOVALS, REPLACEMENTS, AND SHUT DOWN TIMES WITH THE RESPECTIVE UTILITY AGENCY REPRESENTATIVES. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE UTILITY REPRESENTATIVES PRIOR TO SHUT DOWNS, REMOVALS, REPLACEMENTS AND SHALL PERFORM ALL NECESSARY BYPASS PUMPING REQUIRED AND SHALL PROVIDE AND MAINTAIN ALL WATER, SEWER, GAS, ELECTRIC, COMMUNICATIONS, ETC. SERVICES REQUIRED DURING AND AFTER THE WORK AS DIRECTED BY THE RESPECTIVE UTILITY AGENCY REPRESENTATIVE. COST OF ALL UTILITY RELOCATIONS, SHUTDOWNS, BYPASSING, MAINTAINING SERVICE ETC. SHALL BE BORNE BY THE CONTRACTOR AND IS CONSIDERED INCLUDED IN THE COST OF THE WORK.
22. EXISTING UTILITIES AND OTHER FACILITIES SHOWN ON PLANS ARE BASED ON INFORMATION OBTAINED FROM FIELD SURVEY, EXISTING MAPS AND AS–BUILTS AND OTHER PLANS WITHIN THE AREA OF THIS PROJECT. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES WHICH PERTAIN TO AND MAY AFFECT THE CONSTRUCTION. VARIATIONS BETWEEN ACTUAL DIMENSIONS AND THE DIMENSIONS INDICATED WILL NOT BE A BASIS FOR ANY INCREASE OR DECREASE OF THE CONTRACT BID PRICE.

GENERAL NOTES (CONTINUED):

23. THE CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING IN THE VICINITY OF ALL GAS AND POWER LINES. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE GAS AND POWER TRENCHES AND PIPELINES AT ALL TIMES. SPECIAL ATTENTION SHALL BE GIVEN TO BRACING AND SUPPORT FOR UNDERGROUND POWER CROSSINGS. TRENCHING WITHIN A TWO FOOT VICINITY OF GAS LINES SHALL BE BY HAND. ALL POWER LINE CROSSINGS SHALL BE BRACED DURING CONSTRUCTION. BRACING SHALL BE A NON PAY ITEM UNLESS NOTED OTHERWISE. POLE BRACING MAY BE REQUIRED WHEN EXCAVATING NEAR POWER POLES.
24. THE CONTRACTOR SHALL SUPPORT AND PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN THE EXCAVATION AS REQUIRED BY THE MAG SPECIFICATIONS.
25. THE SEPARATION OF WATER AND SEWER MAINS SHALL CONFORM WITH MAG STANDARD SPECIFICATIONS AND DETAILS.
26. COMPACTION SHALL COMPLY WITH MAG SECTION 601 AND CITY OF PHOENIX SUPPLEMENTS AND AS INDICATED IN THE PROJECT PLANS AND DETAILS.
27. PIPE DEFLECTIONS SHALL BE PER PIPE MANUFACTURERS' RECOMMENDATIONS.
28. THE CONTRACTOR MUST PROTECT THE ADJACENT PROPERTY AND IMPROVEMENTS THERETO FROM ANY DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO ADJACENT PROPERTY OR IMPROVEMENTS MUST BE REPAIRED OR REPLACED, TO THE PROPERTY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
29. OPEN CUT SLOPES AND SHORING FOR GRAVITY SEWER TRENCH EXCAVATIONS SHALL AS A MINIMUM COMPLY WITH OSHA REQUIREMENTS. WHERE EXCAVATIONS ARE DEEPER THAN 20 FEET, THE CONTRACTOR SHALL HAVE A PROFESSIONAL CIVIL ENGINEER, REGISTERED IN THE STATE OF ARIZONA, DESIGN OPEN CUT SLOPES AND SHORING. THE CONTRACTOR SHALL SUBMIT THE DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
30. ALL SIDEWALK/DRIVEWAY REMOVALS SHALL BE REMOVED TO THE NEAREST JOINT, SAWCUT AS REQUIRED TO ENSURE A NEAT EDGE. NEW CONCRETE SHALL BE CONSTRUCTED PER MAG DETAILS AND SPECIFICATIONS AND SHALL MATCH WIDTH AND THICKNESS OF EXISTING CONCRETE.*** ALL CURB AND GUTTER REMOVALS SHALL BE REMOVED TO THE NEAREST JOINT, SAWCUT AS REQUIRED TO ENSURE A NEAT EDGE. NEW CURB AND GUTTER SHALL BE PER MAG DETAILS AND SPECIFICATIONS.
31. THE CONTRACTOR SHALL CONSTRUCT PERMANENT OR TEMPORARY PIPE SUPPORTS AS SHOWN ON MAG STANDARD DETAILS 403–1, 403–2 AND 403–3 FOR ALL UTILITY CROSSINGS ON THIS PROJECT. PIPE SUPPORTS SHALL BE A NON PAY ITEM.

ABBREVIATIONS

BC	BRASS CAP
BCF	BRASS CAP FLUSH
BM	BENCHMARK
BOU	BOTTOM OF UTILITY
C	CONCRETE
COP	CITY OF PHOENIX
CST	CONSTRUCTION
CTL	CENTURY LINK
DTL / DET	DETAIL
DWG	DRAWING
E	END OR EAST
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATION
EX / EXIST	EXISTING
FND	FOUND
FO	FIBER OPTIC
HH	HANDHOLE
I.E.	INVERT ELEVATION
LT	LEFT
MH	MANHOLE
P	PAVEMENT
RT	RIGHT
SHT	SHEET
SRP	SALT RIVER PROJECT
SSMH	SANITARY SEWER MANHOLE
STA	STATION
SW	SOUTHWEST
TBM	TEMPORARY BENCH MARK
TCE	TEMPORARY CONSTRUCTION EASEMENT
T/N	TOP OF NUT
TOU	TOP OF UTILITY
W/	WITH

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NOTES AND ABBREVIATIONS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	3	117
SCALE: HORIZ NONE VERT				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	4	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

REVISION BY CITY OF PHOENIX					
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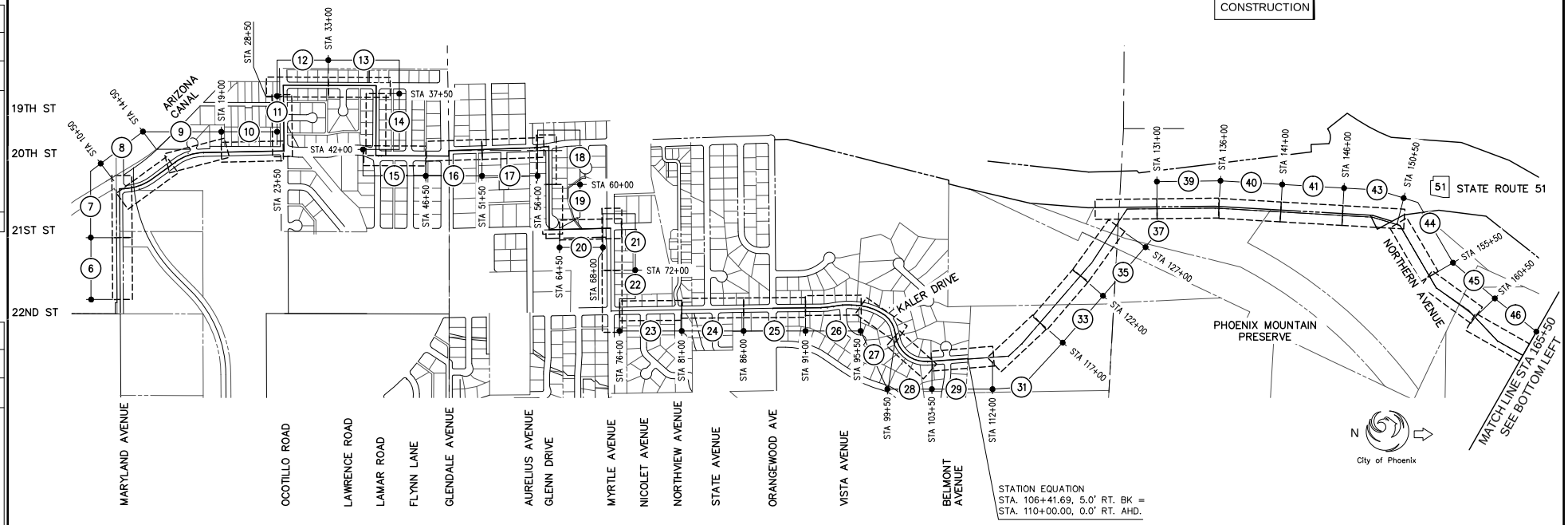

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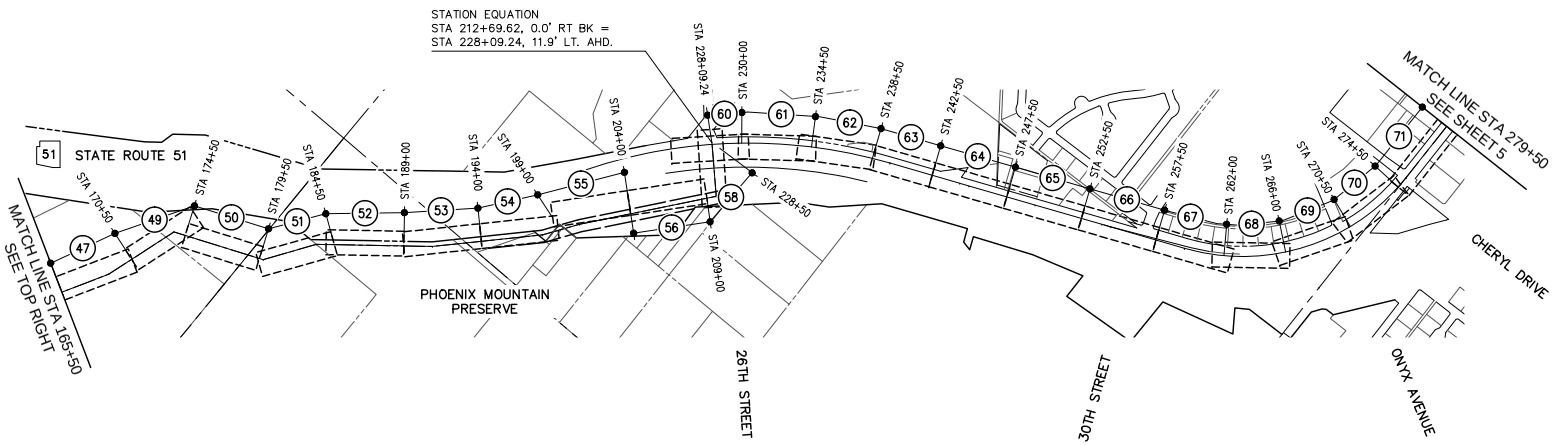

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KEY MAP

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=400'-0" VERT			4	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	5	117

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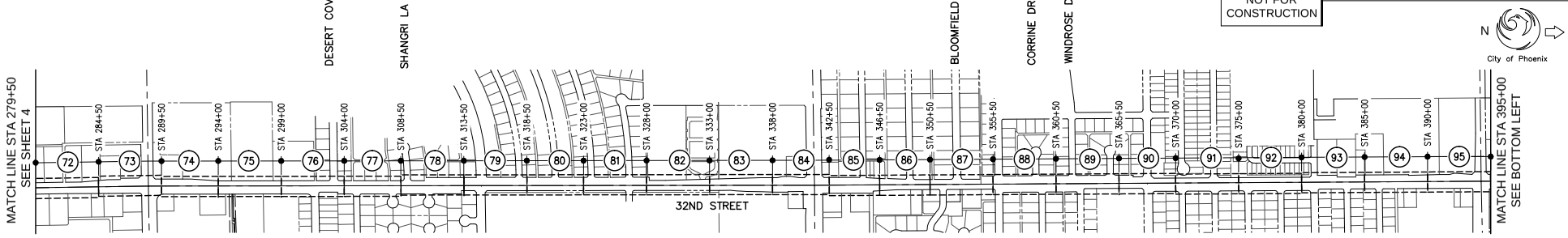
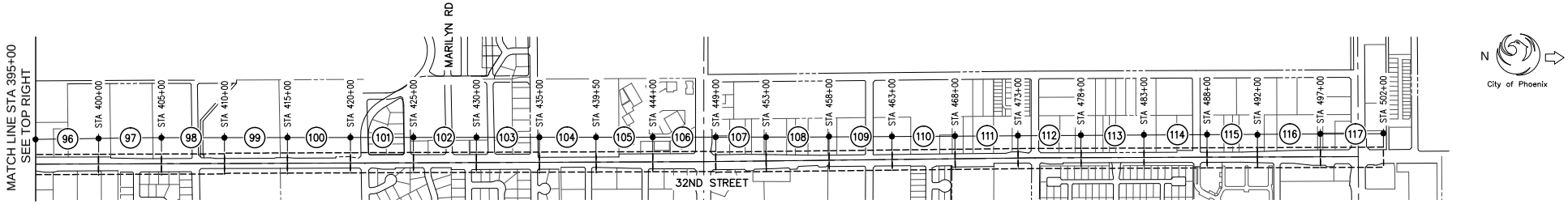


SHEA BOULEVARD
DESERT COVE AVENUE
MESCAL STREET
SHANGRI LA ROAD
YUCCA ST
CHOLLA STREET
LUPINE AVENUE
CORTEZ STREET
SIERRA STREET
ALTADENA AVE
CACTUS ROAD
WETHERSFIELD ROAD
CHARTER OAK ROAD
BLOOMFIELD ROAD
LARKSPUR DRIVE
CORRINE DRIVE
WINDROSE DRIVE
DAHLIA DRIVE
SWEETWATER AVENUE
CAPITAN DREYFUS
ROVEEN AVENUE
PERSHING AVENUE
ANDORRA DRIVE
EMILE ZOLA
PRESIDO ROAD
DELCOA DRIVE
THUNDERBIRD ROAD



FRIESS DRIVE
HEARN ROAD
ACOMA DRIVE
CLAIRE DRIVE
MARILYN ROAD
HILLERY DRIVE
NISBET ROAD
SUNNYSIDE LANE
GREENWAY LANE
GREENWAY DRIVE
TIERRA BUENA LANE
MARCONI AVENUE
PARADISE LANE
GRANDVIEW ROAD
AIRE LIBRE
PHELPS ROAD
BELL ROAD
DANBURY ROAD

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KEY MAP

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DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=400'-0" VERT			5	117

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

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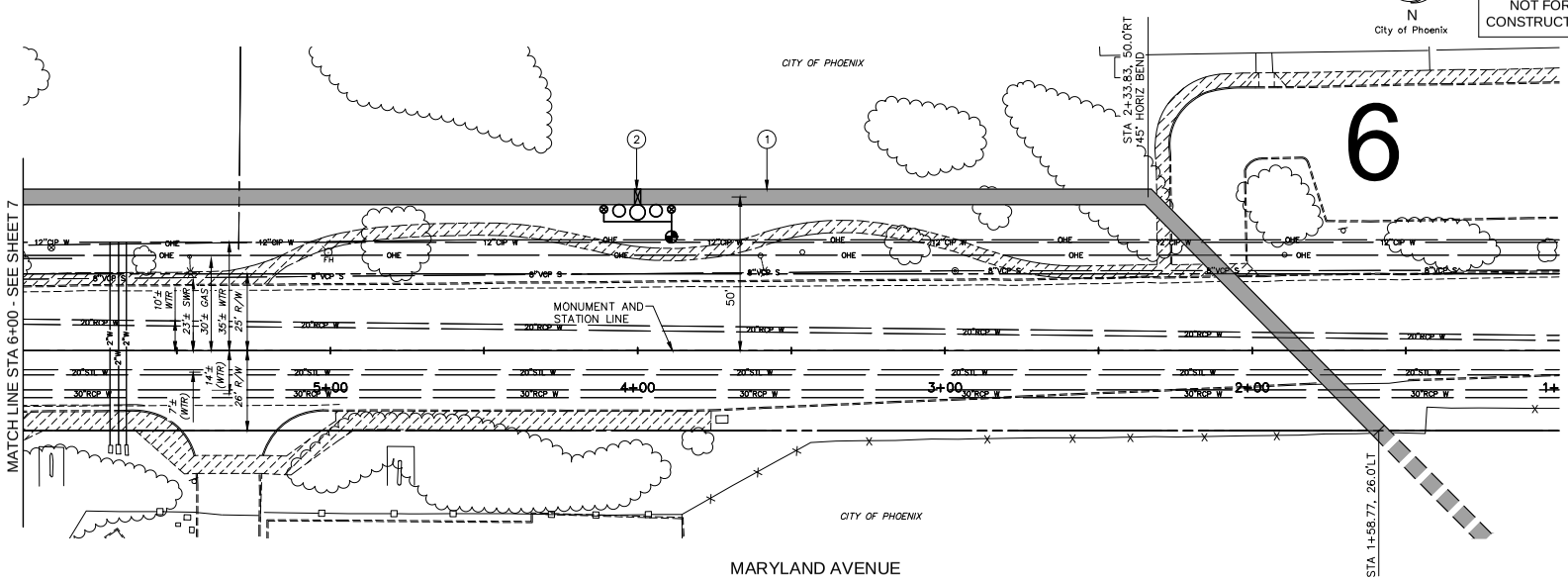

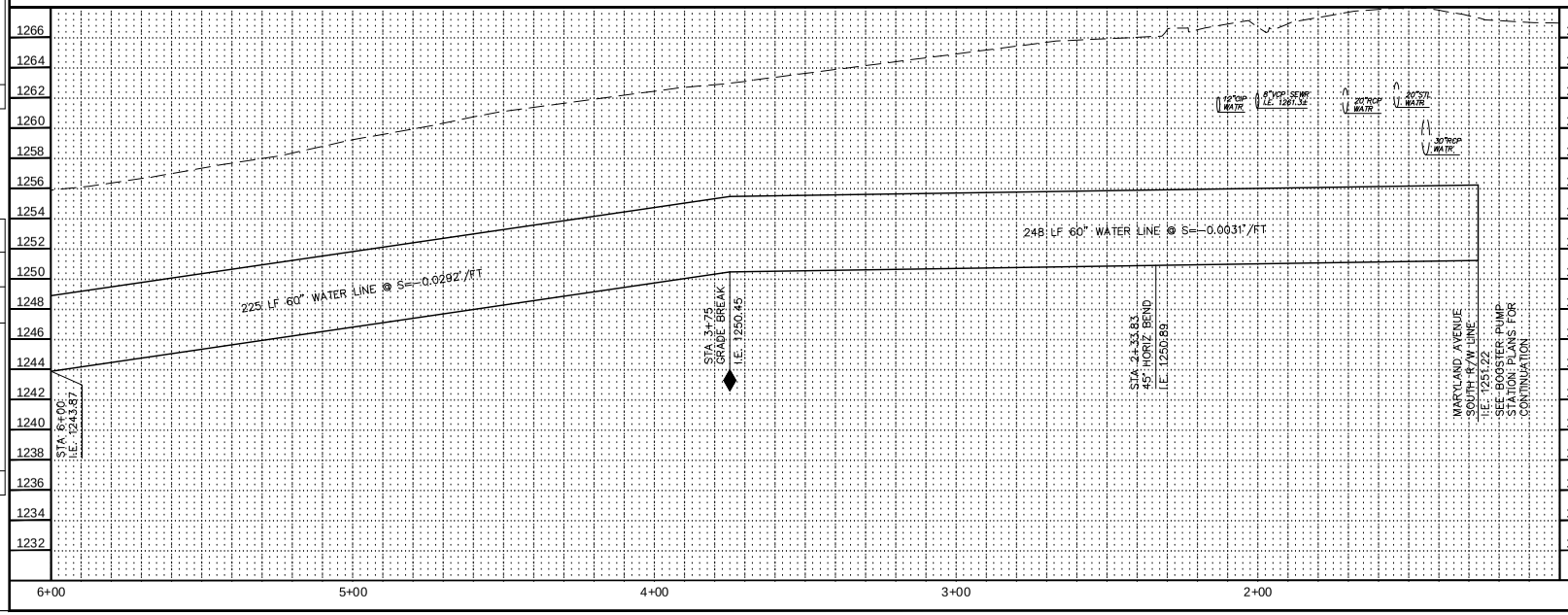

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	473
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			6	117

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

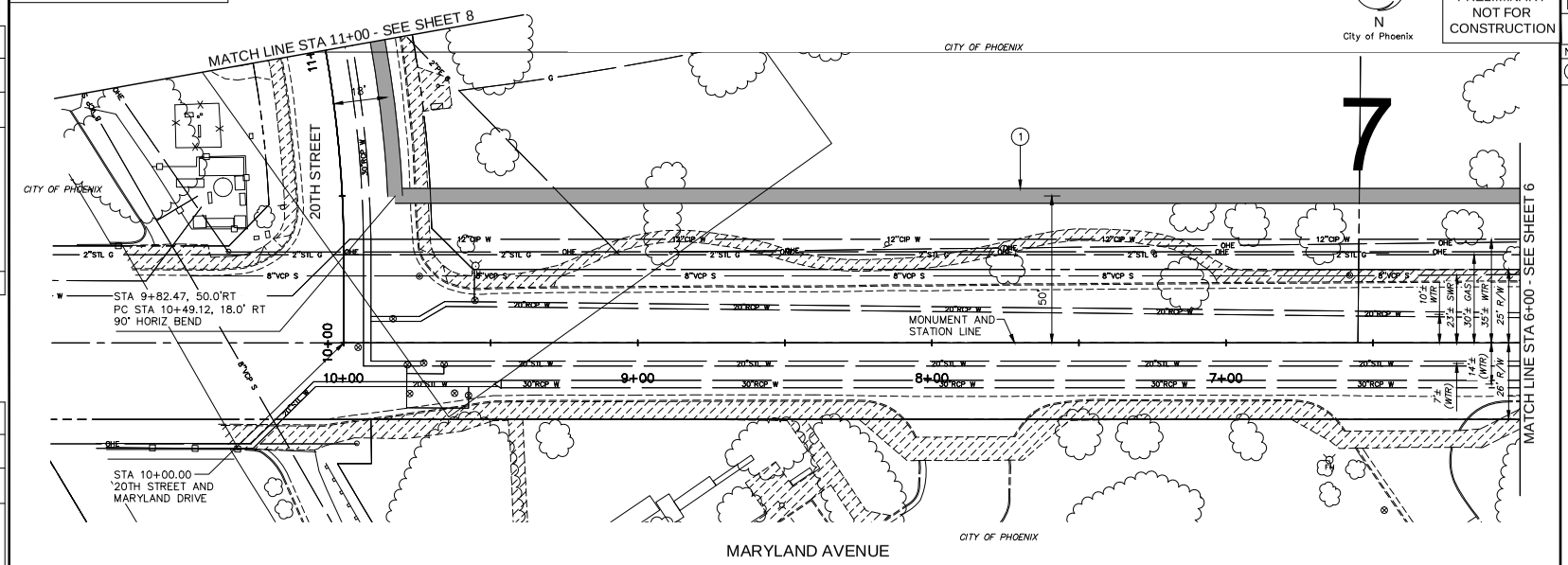
PHOENIX STREET – MARICOPA CO.

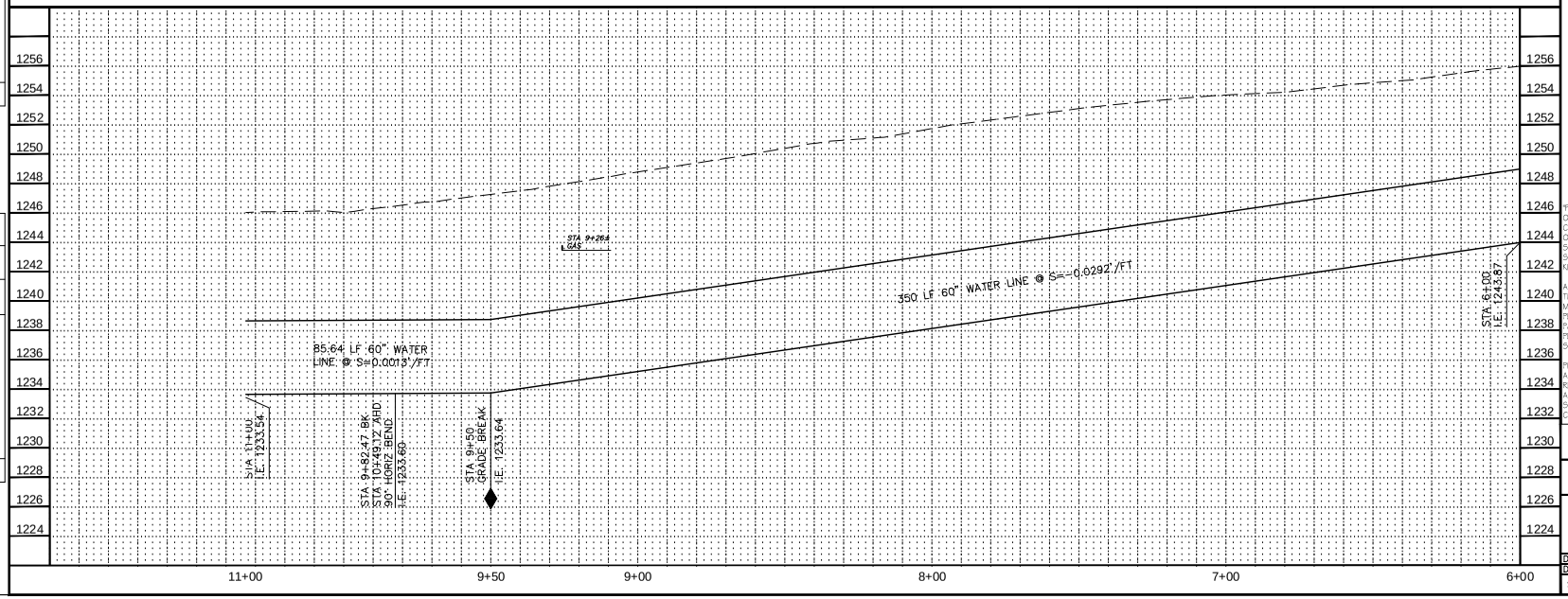
24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

N
City of Phoenix





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	7	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	436

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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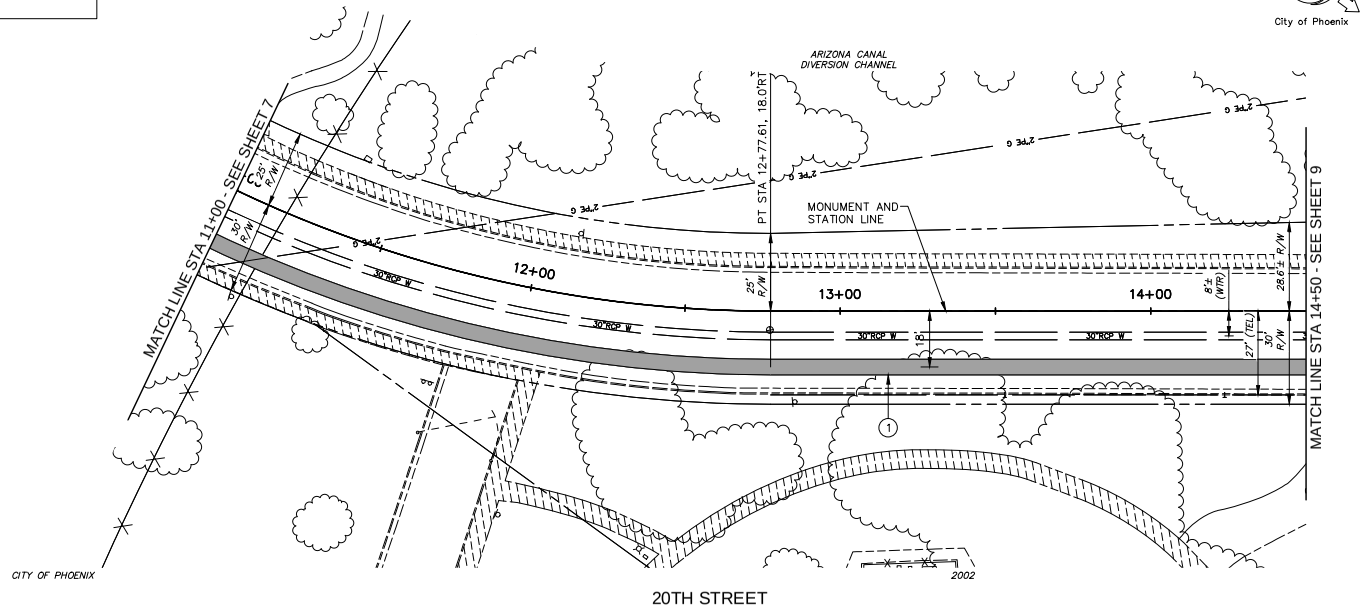
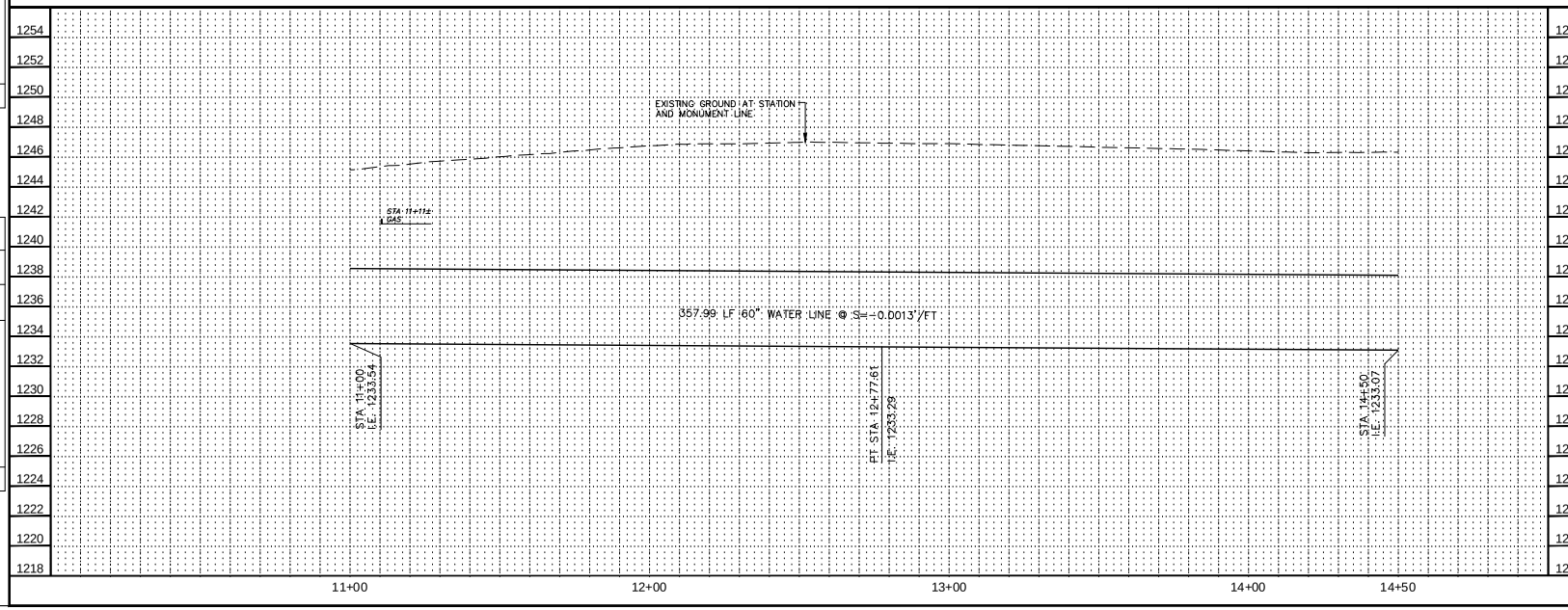
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





30%

PRELIMINARY NOT FOR CONSTRUCTION

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9	ARIZ.	WS85100047-2	8	117

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CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	358

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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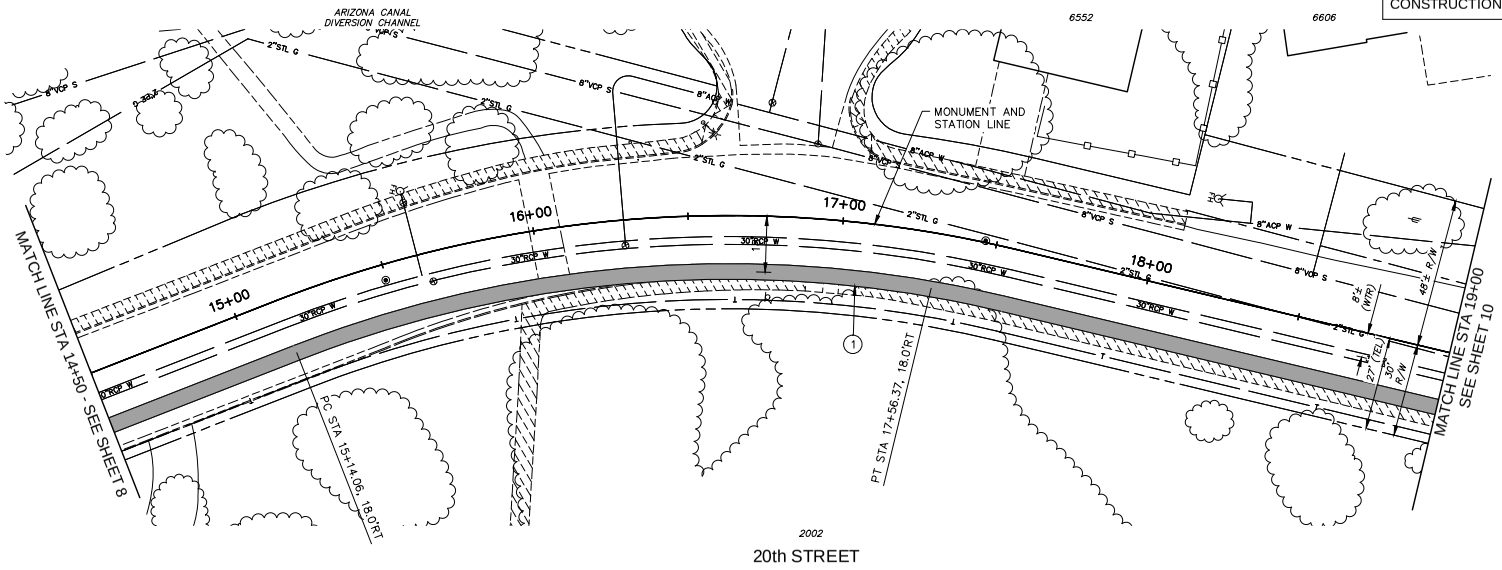

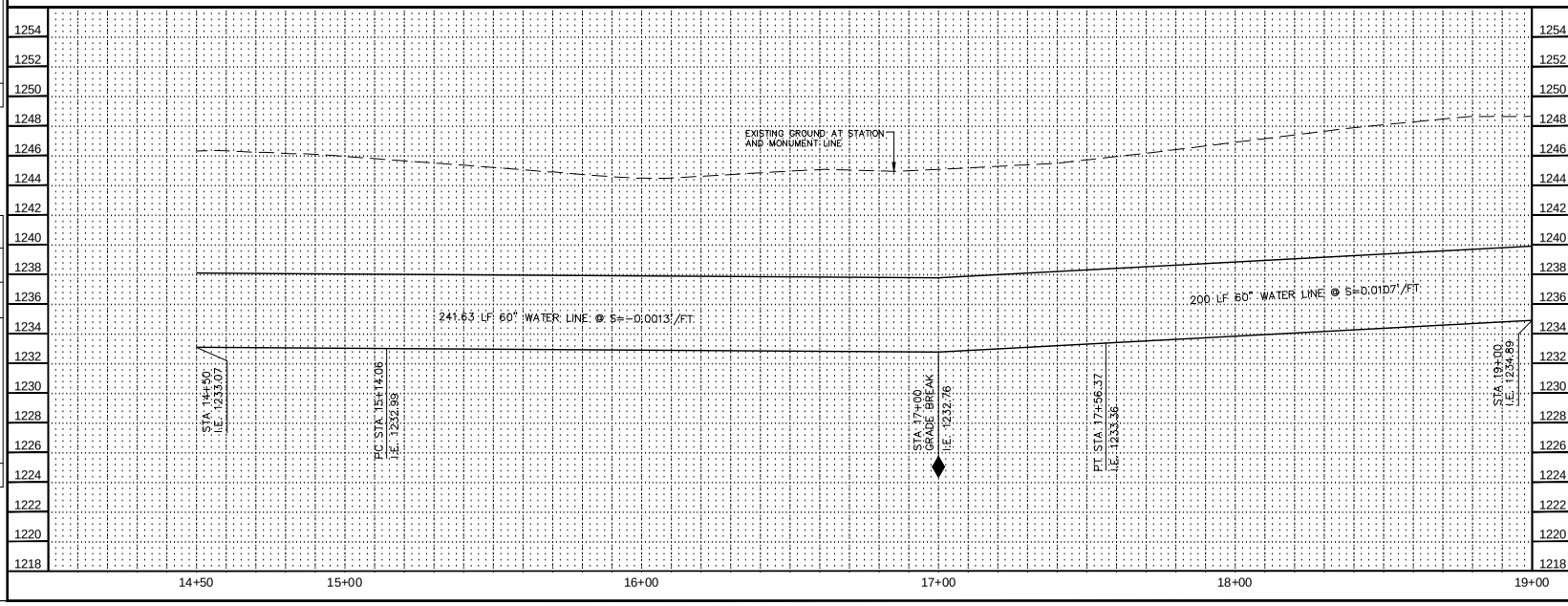

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	442

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24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

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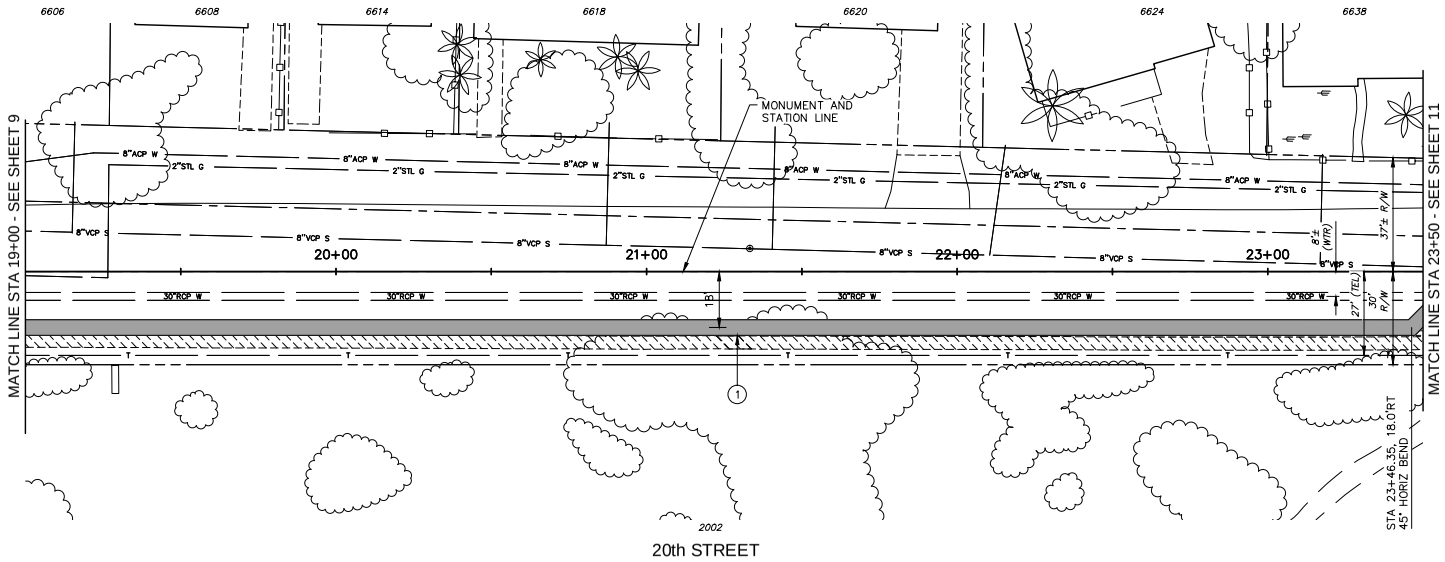

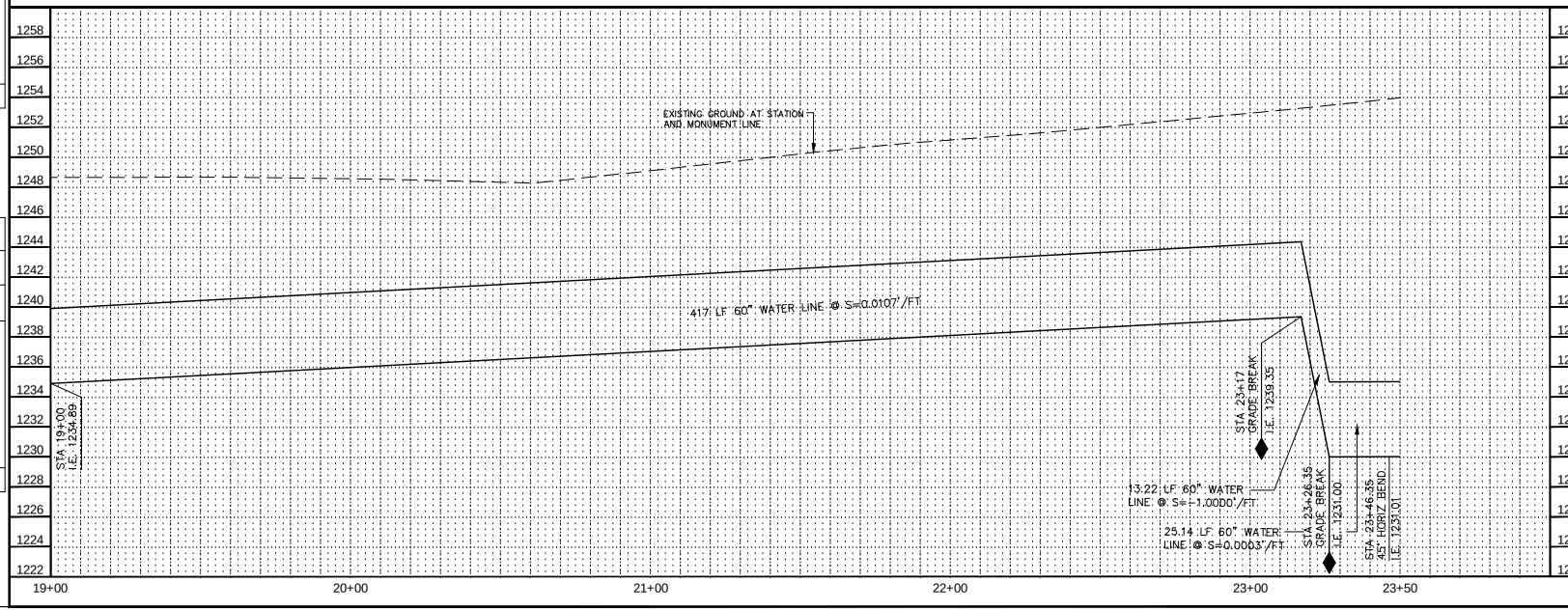

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	456

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

Call 811 or click ArizonaBlue811.com

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			10	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

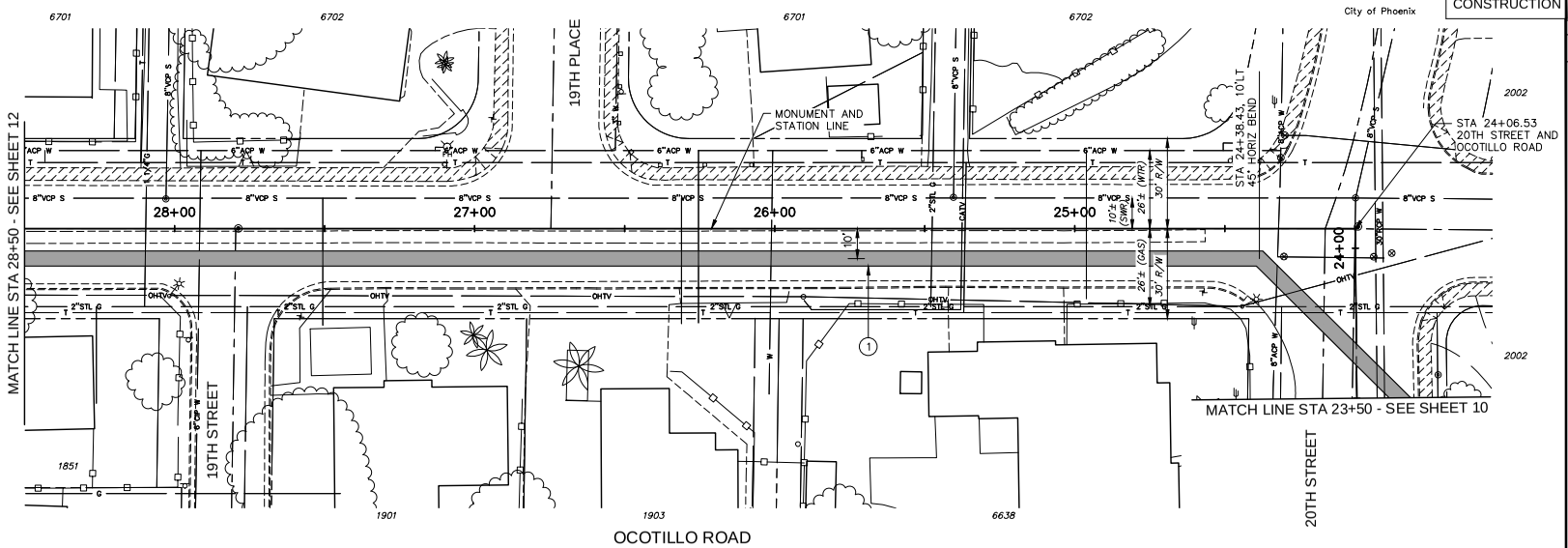
24TH STREET WTP TO 32ND STREET AND BELL ROAD

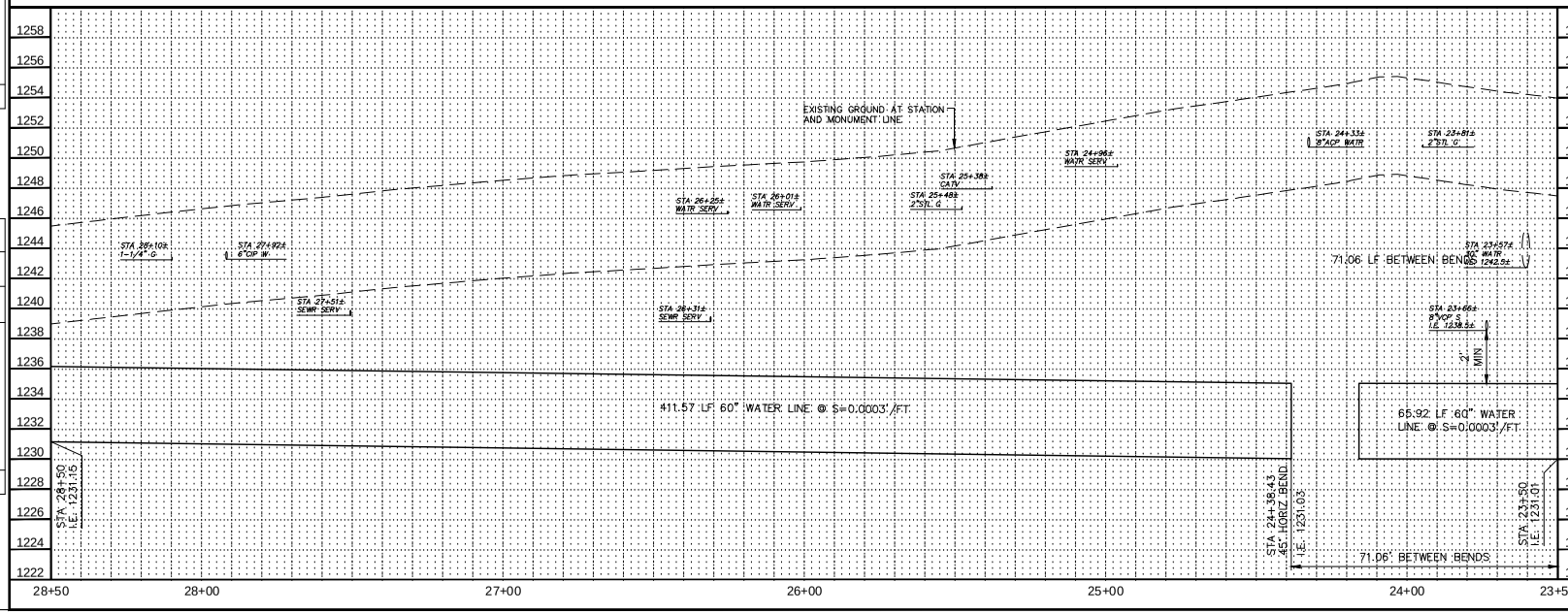
30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	11	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	478

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			11	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

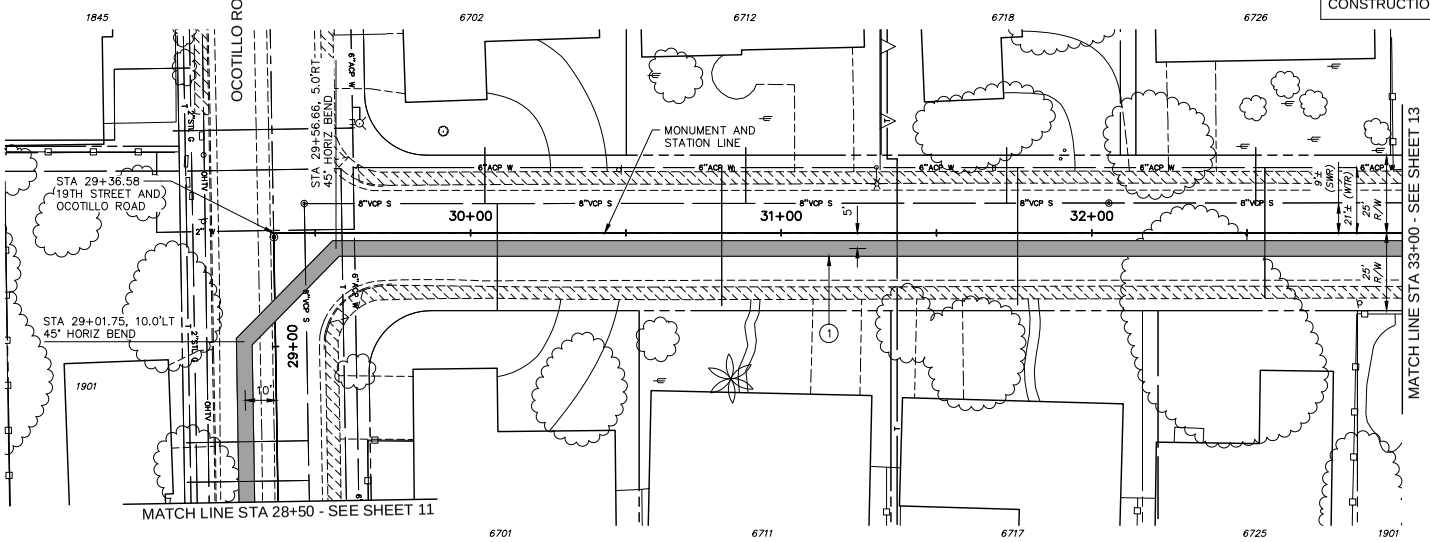
PRELIMINARY NOT FOR CONSTRUCTION

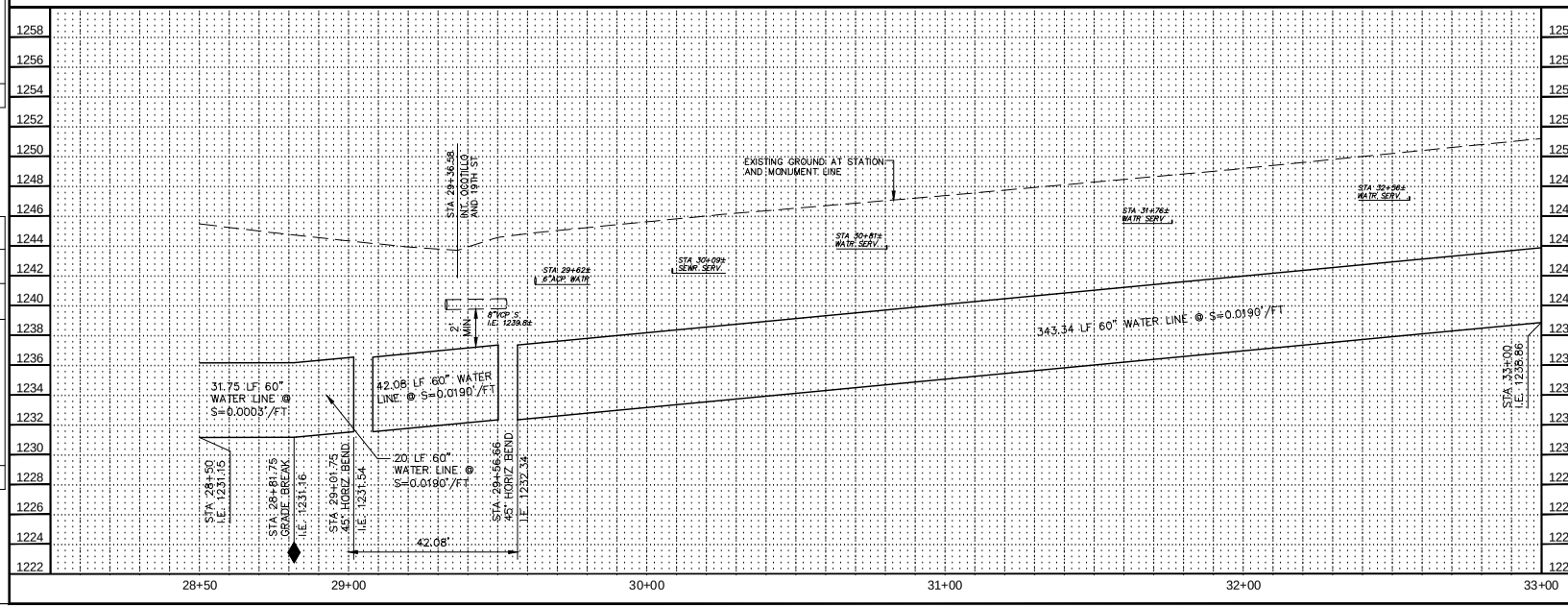
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	12	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	418





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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			12	117

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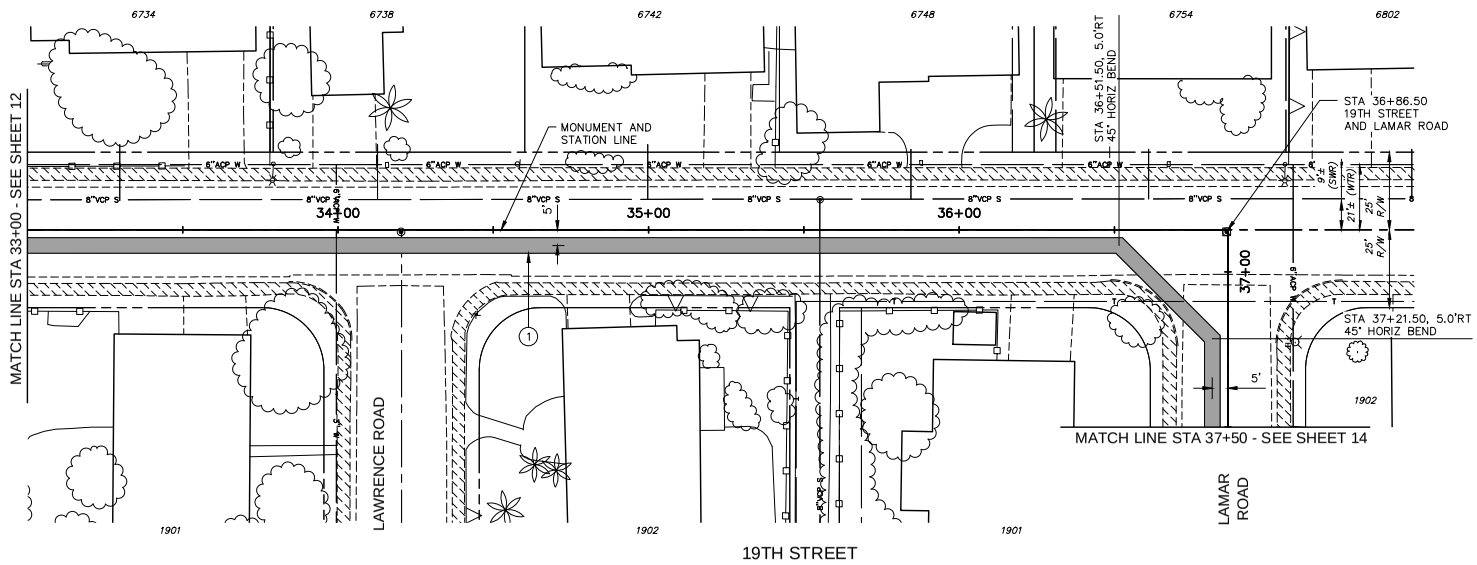
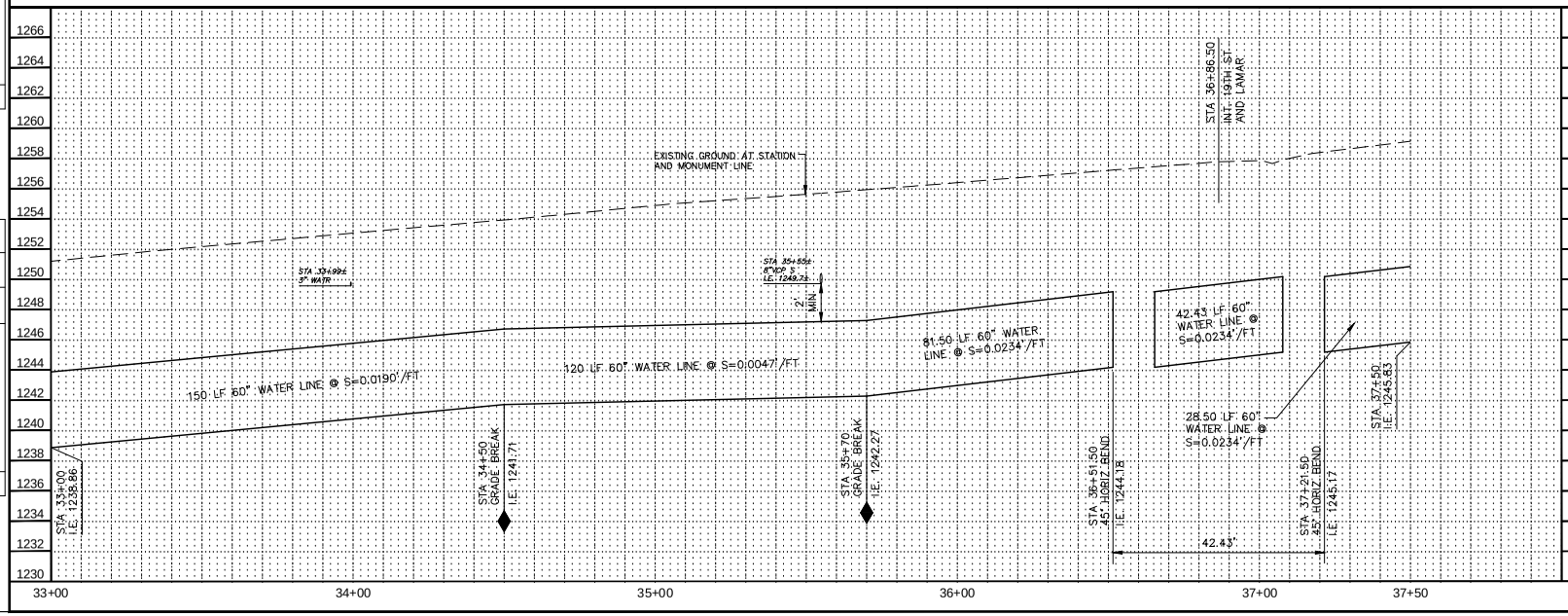
NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	13	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	423

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			13	117

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REVISION BY CITY OF PHOENIX

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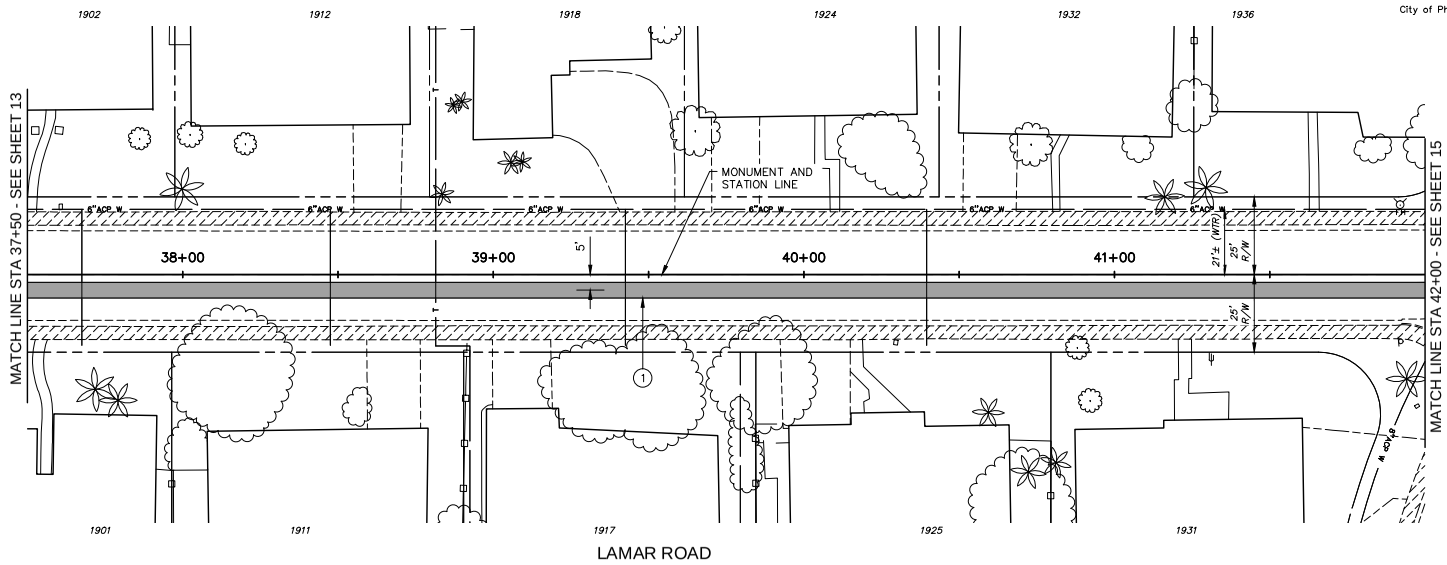
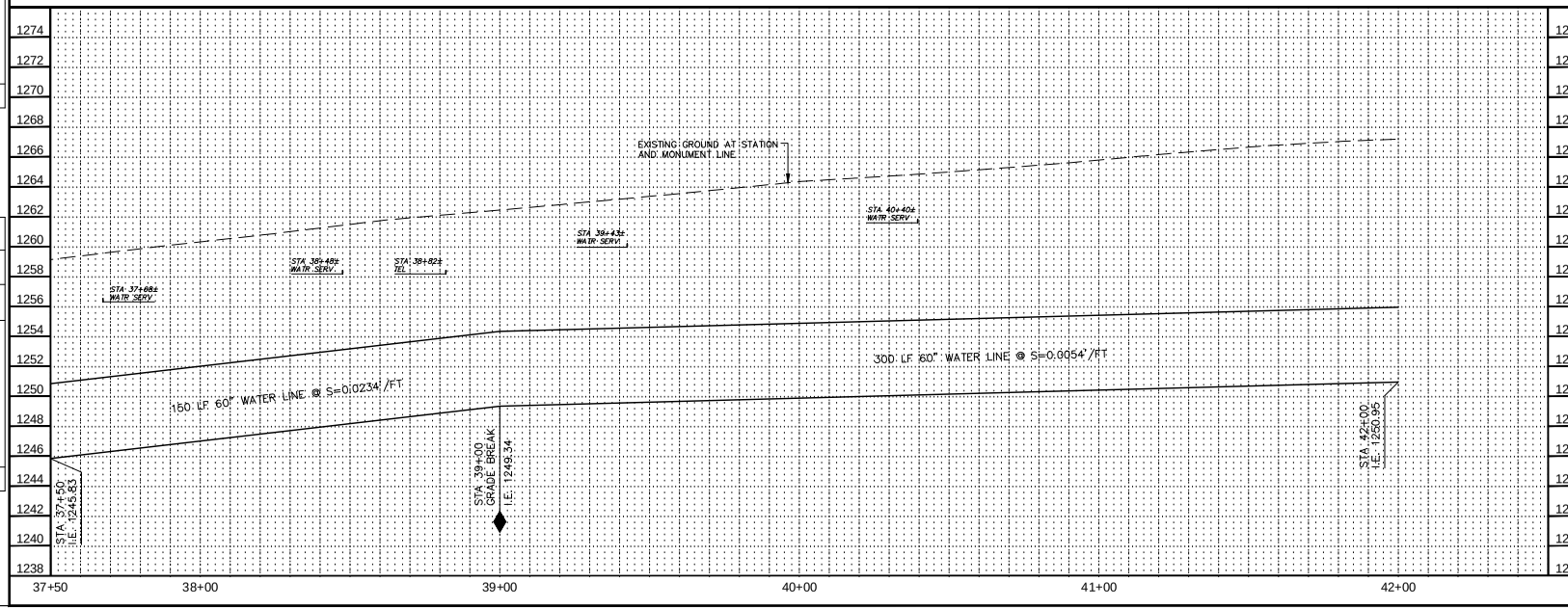
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	14	117

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Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			14	117

REVISION BY CITY OF PHOENIX

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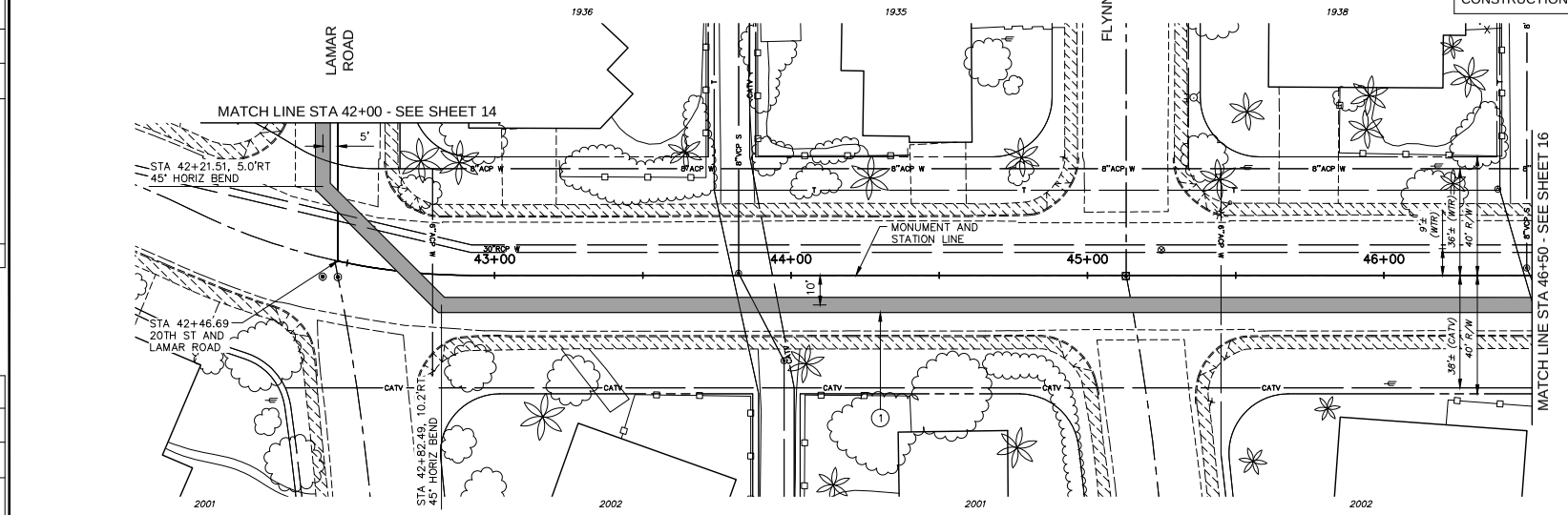
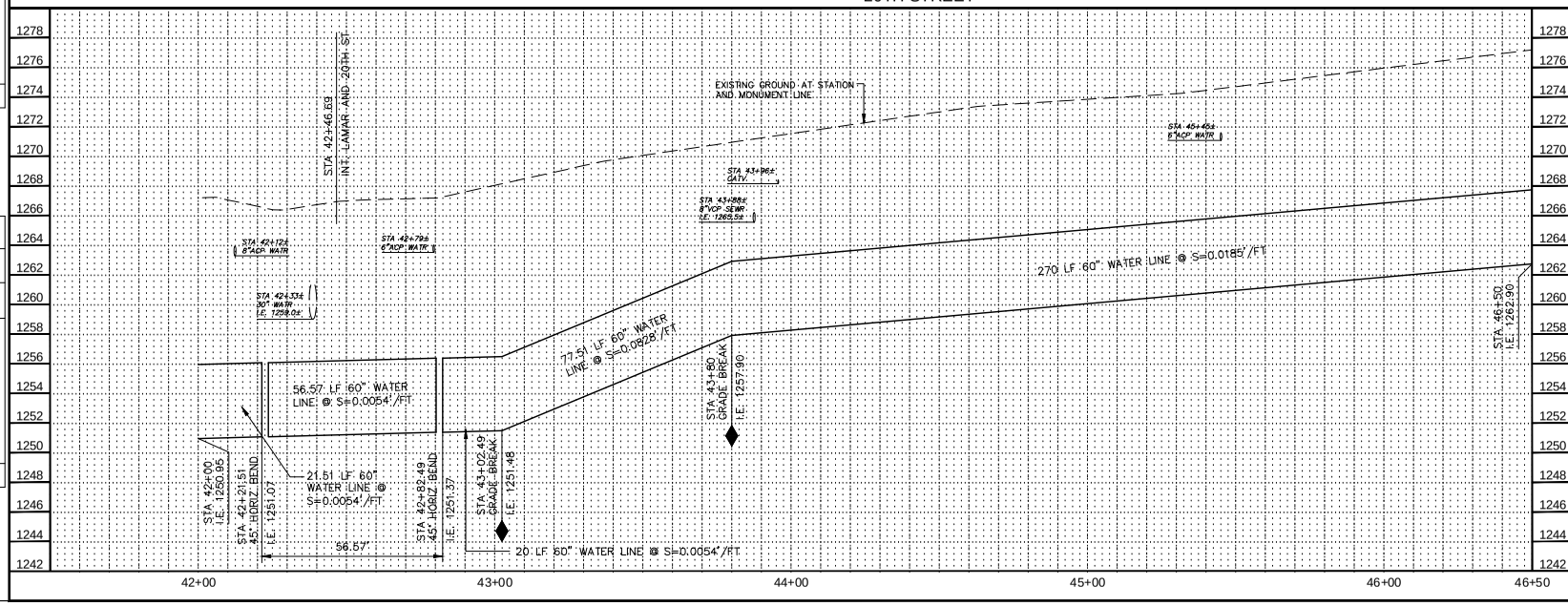
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	15	117

30%

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CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	446

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			15	117

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REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	16	117

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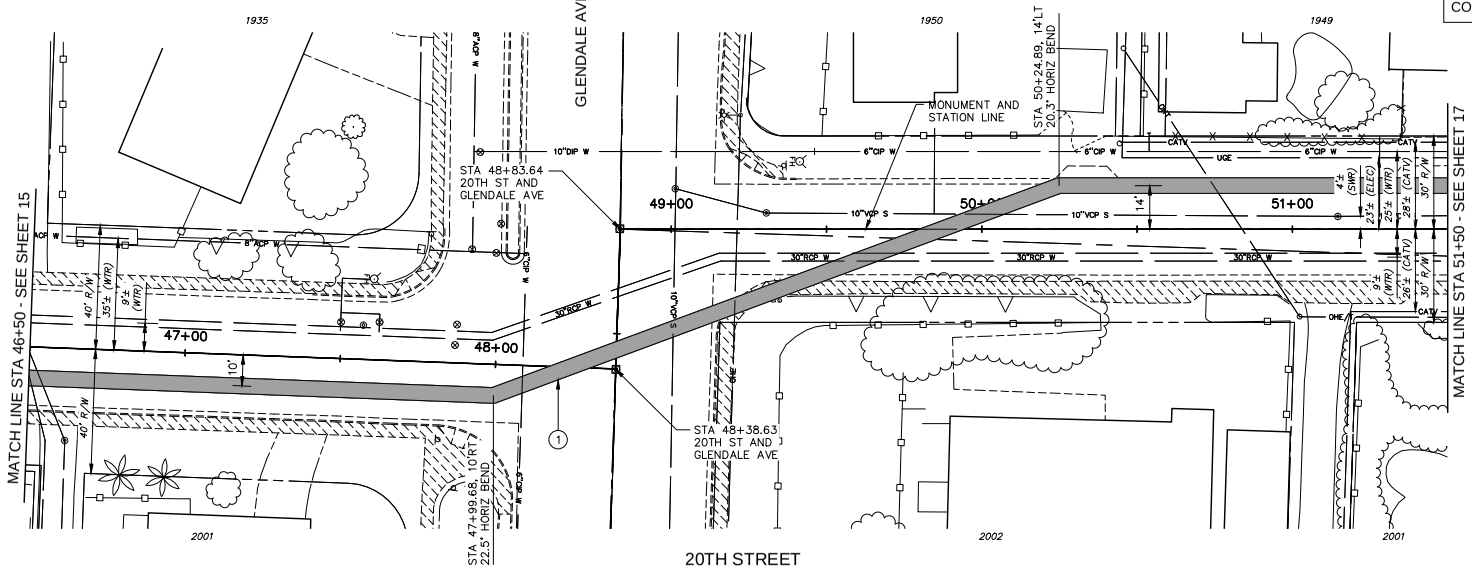

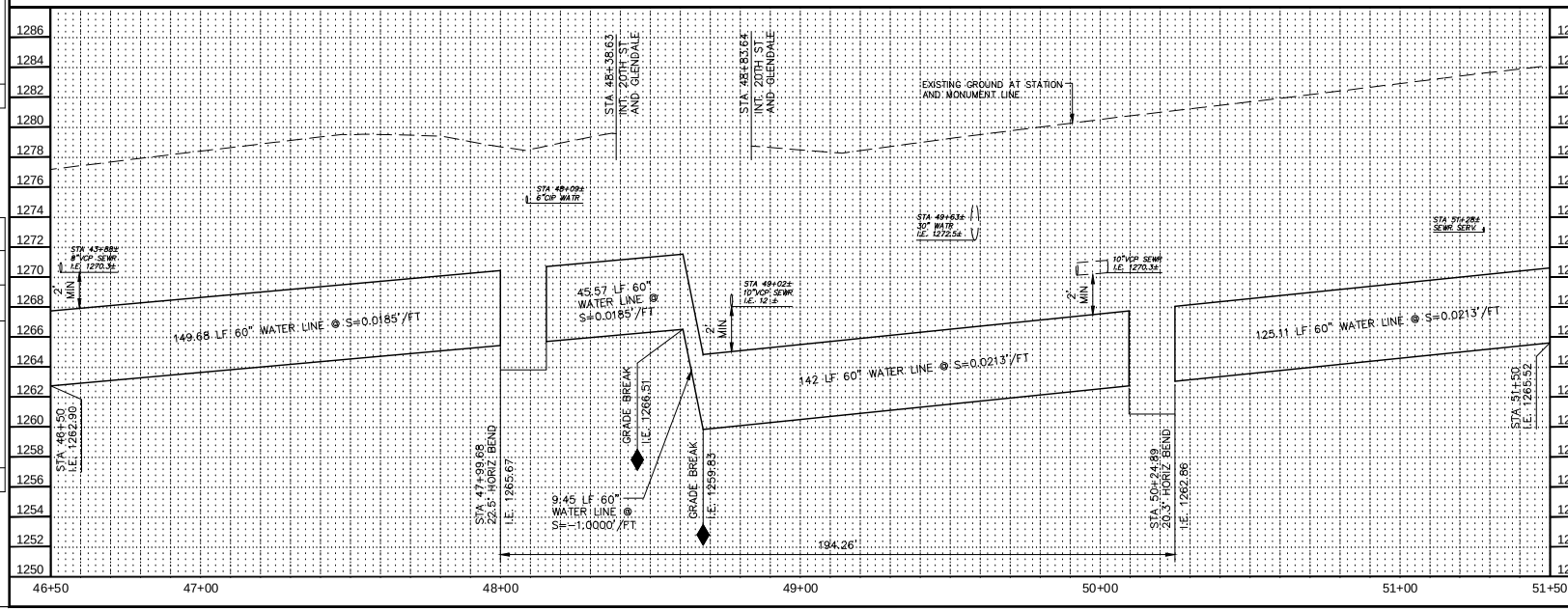

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	472

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			16	117

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

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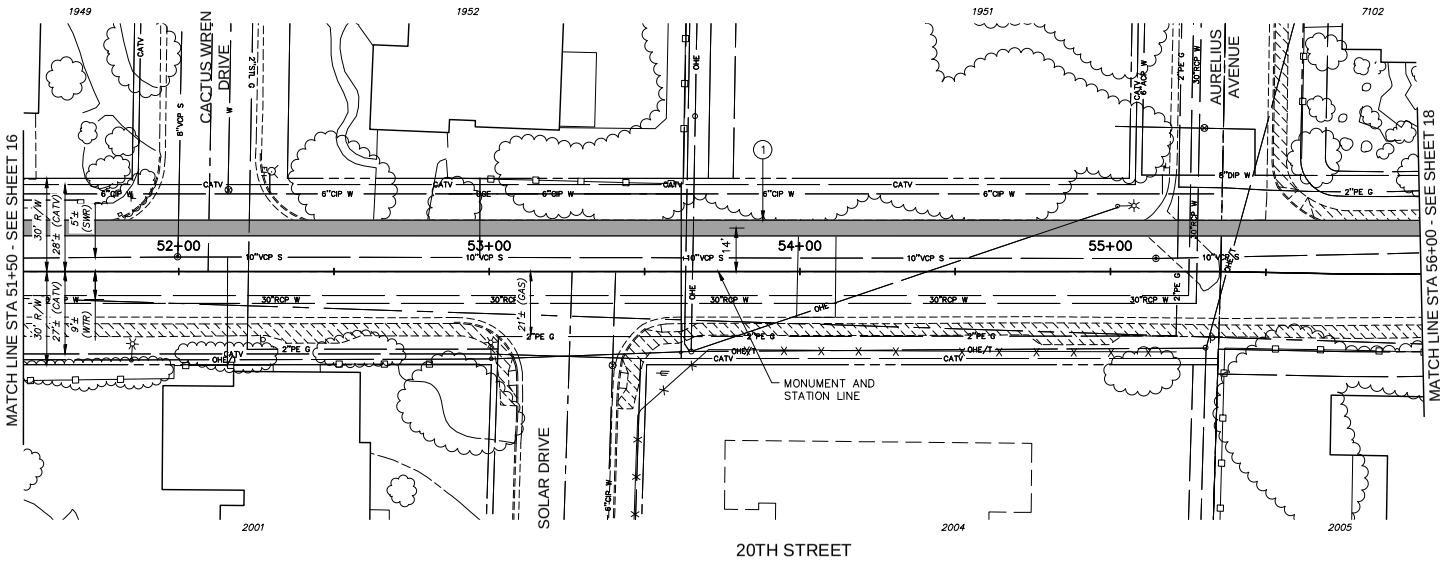
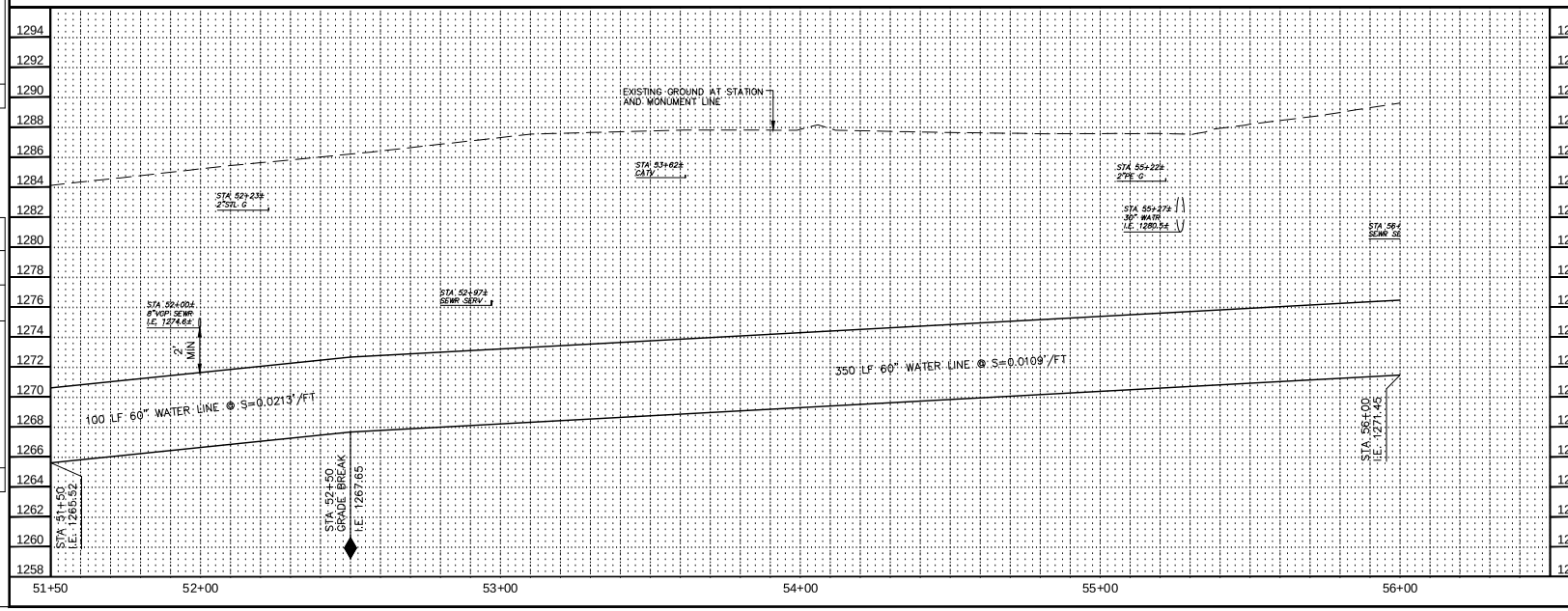
PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450





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ARIZONA 811

Call 811 or click ArizonaBlue811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			17	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

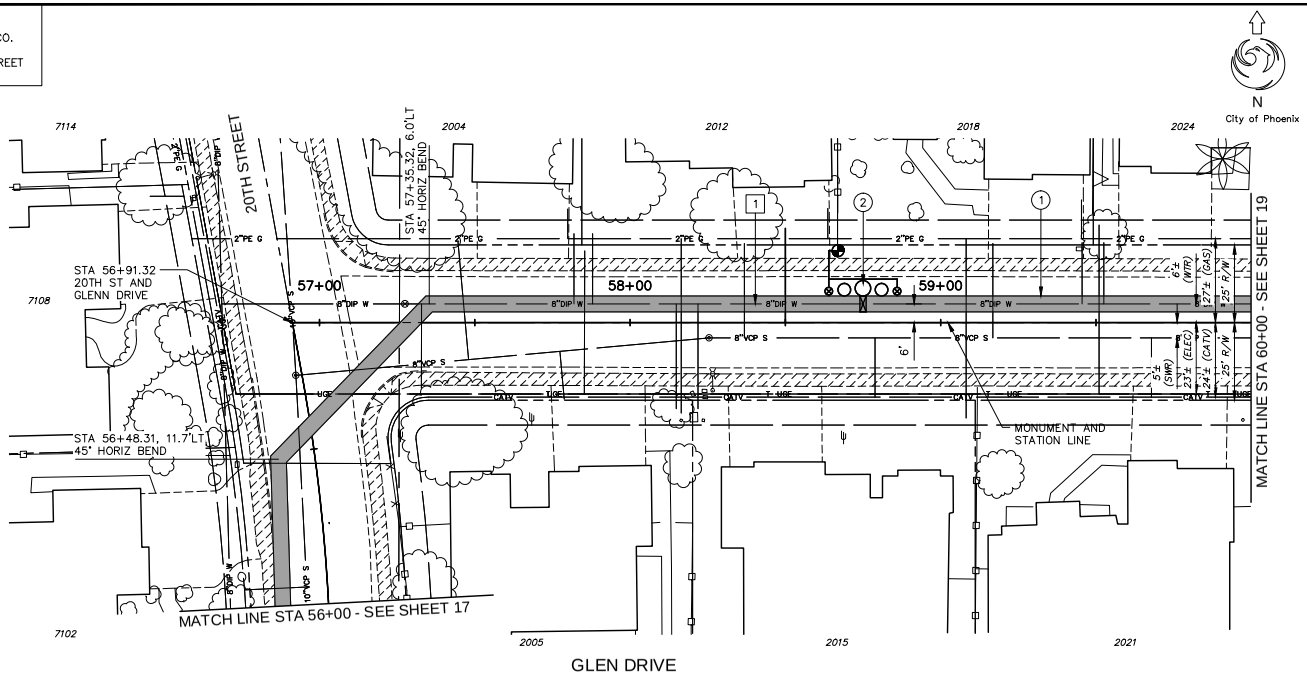
24TH STREET WTP TO 32ND STREET AND BELL ROAD

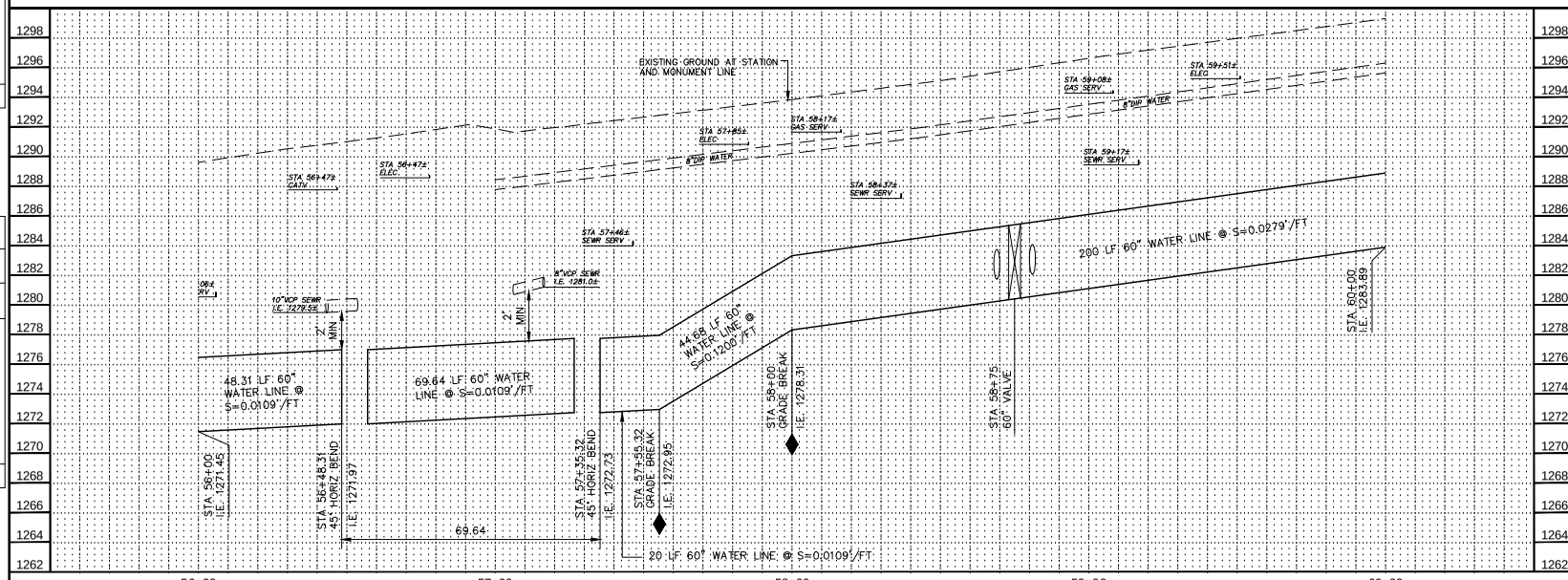
30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	18	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	383
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	RELOCATE 8" DIP WATER LINE	LF	270

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ARIZONA 811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			18	117

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	19	117

PEC
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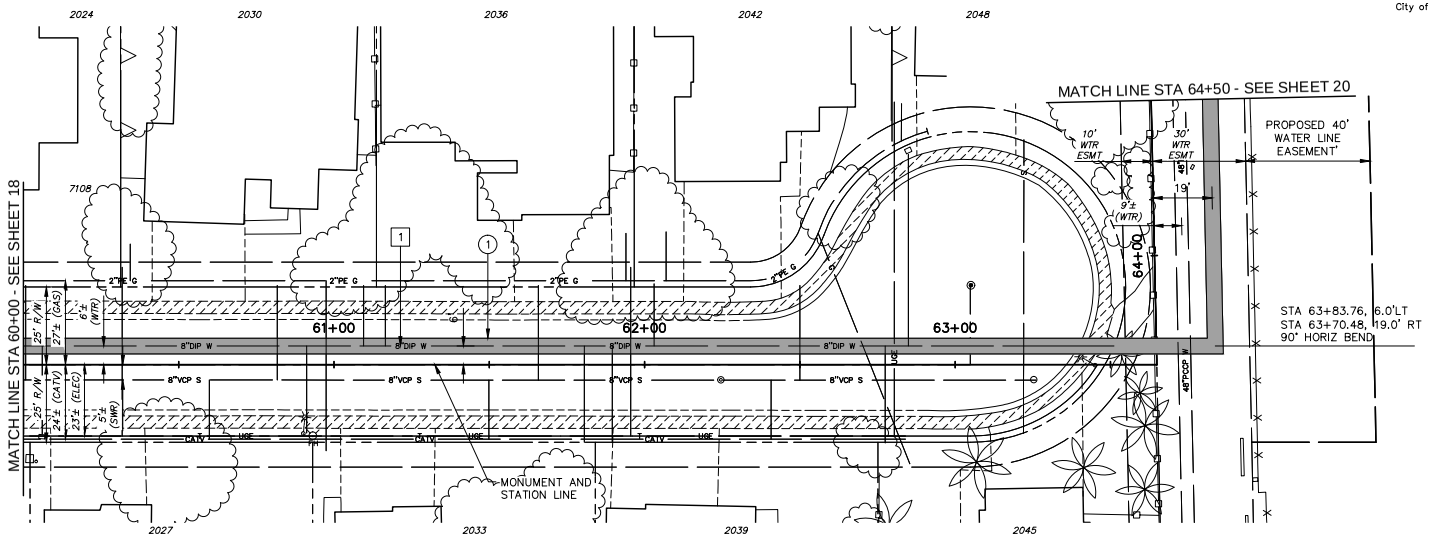

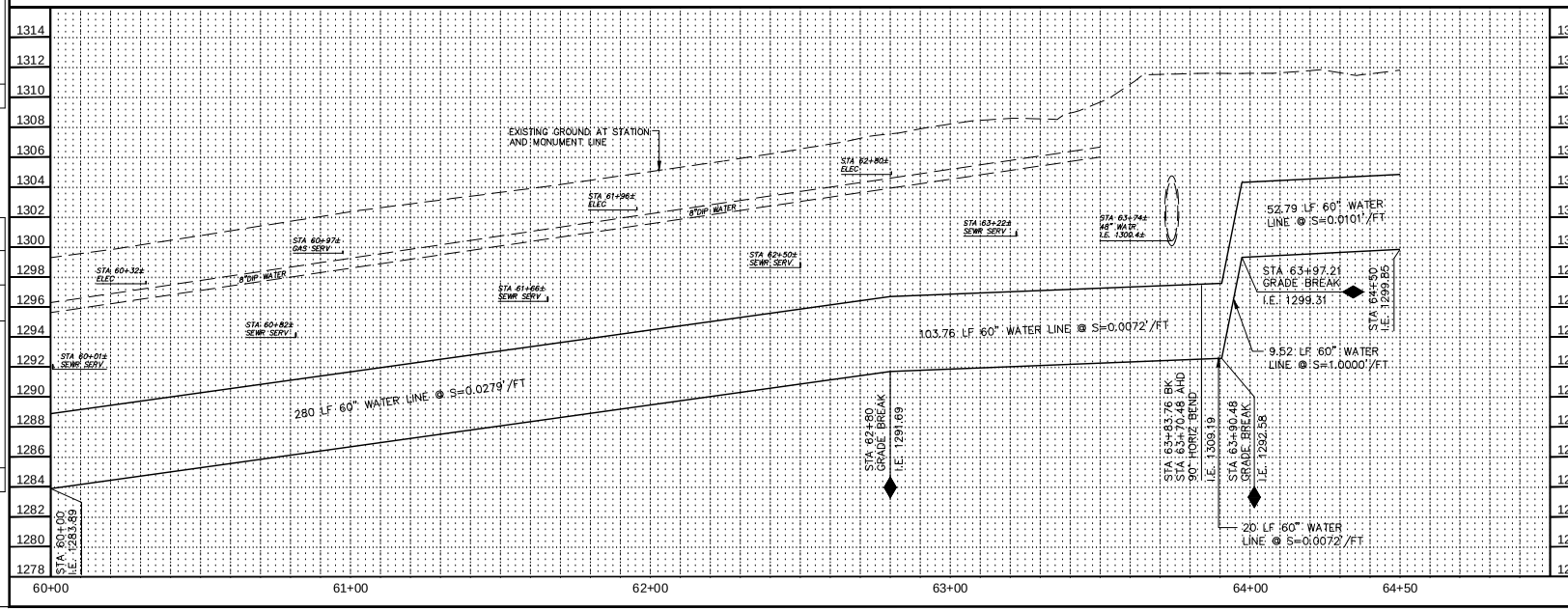

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	466

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	RELOCATE 8" DIP WATER LINE	LF	352

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			19	117

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

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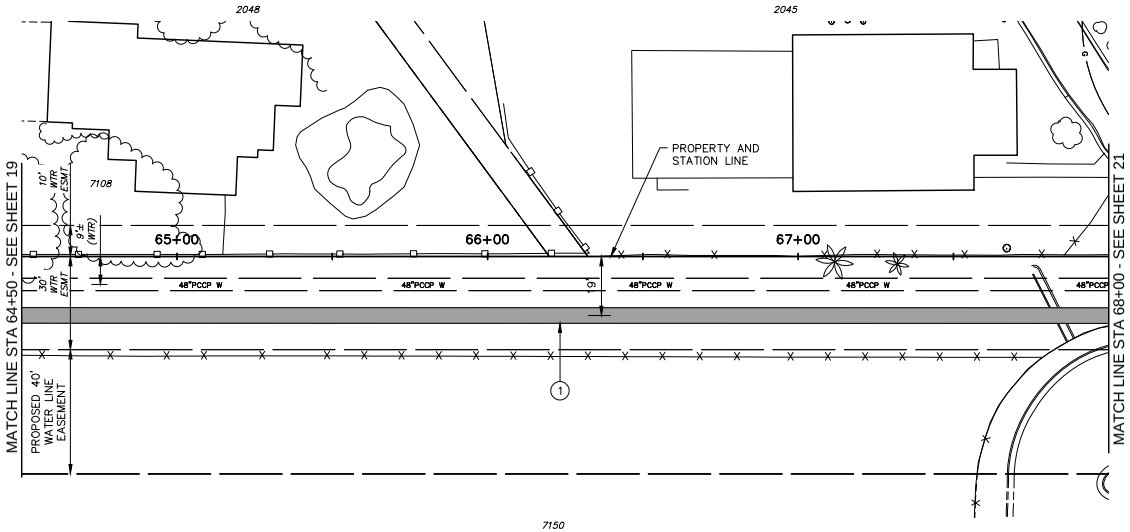
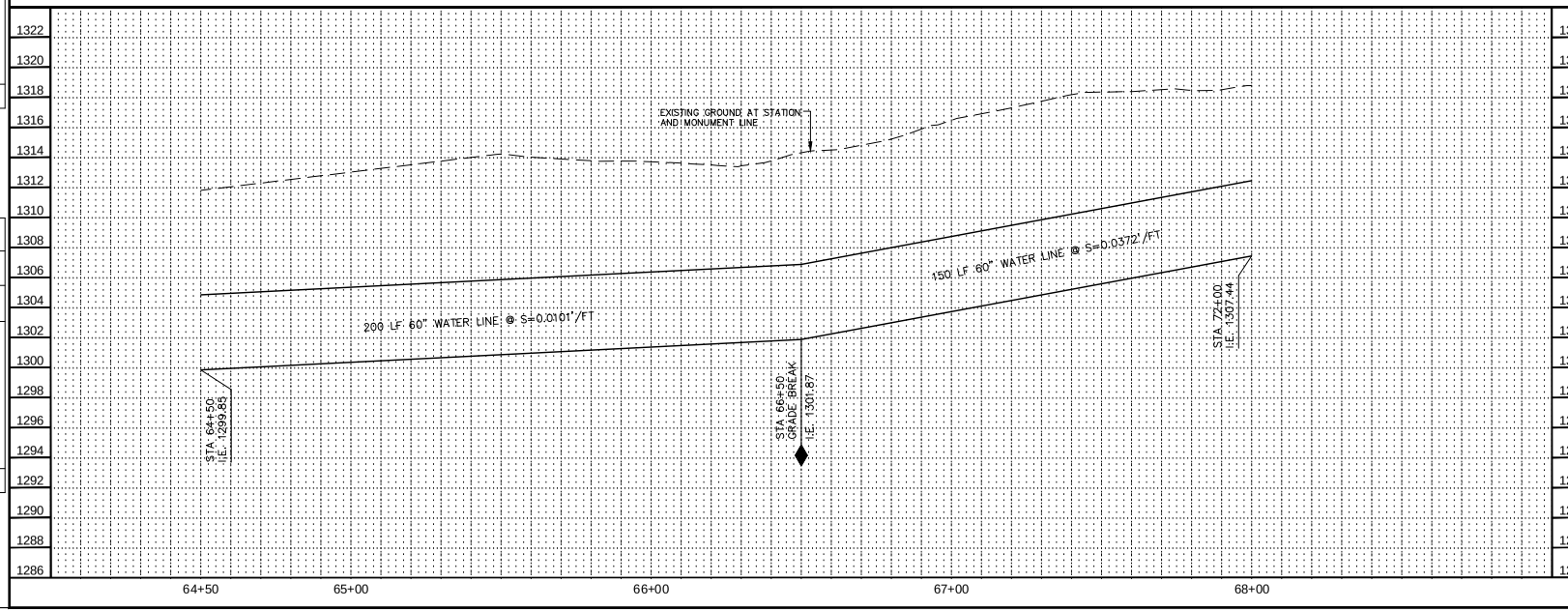


30' WATER EASEMENT



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	350

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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SCALE: HORIZ 1"=20' VERT 1"= 4'			20	117

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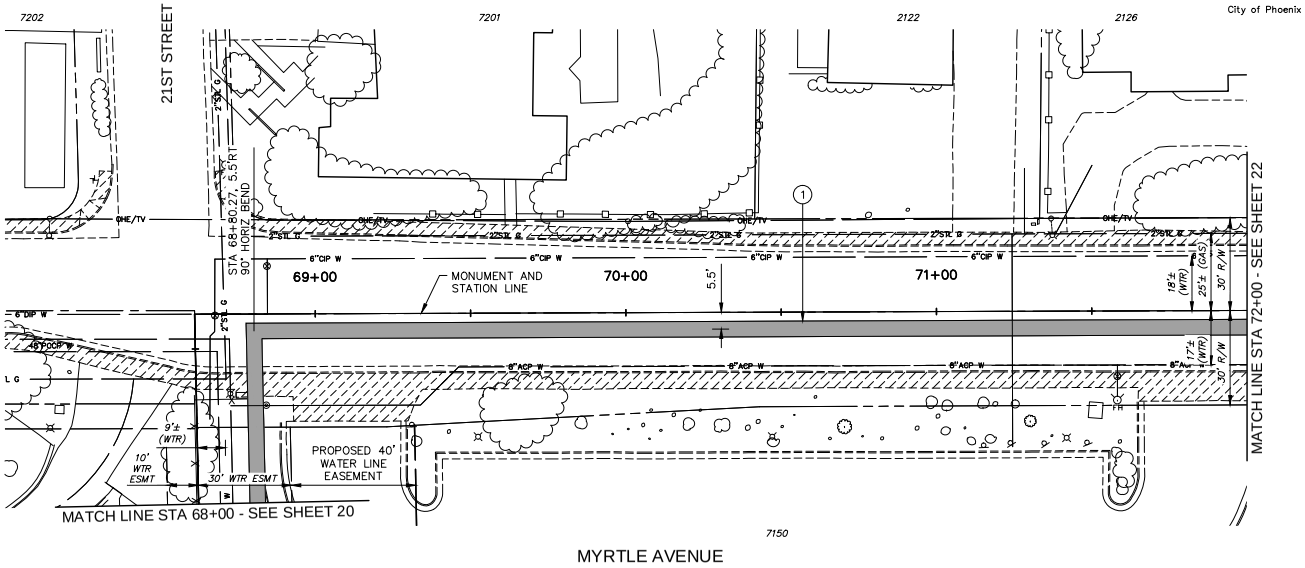
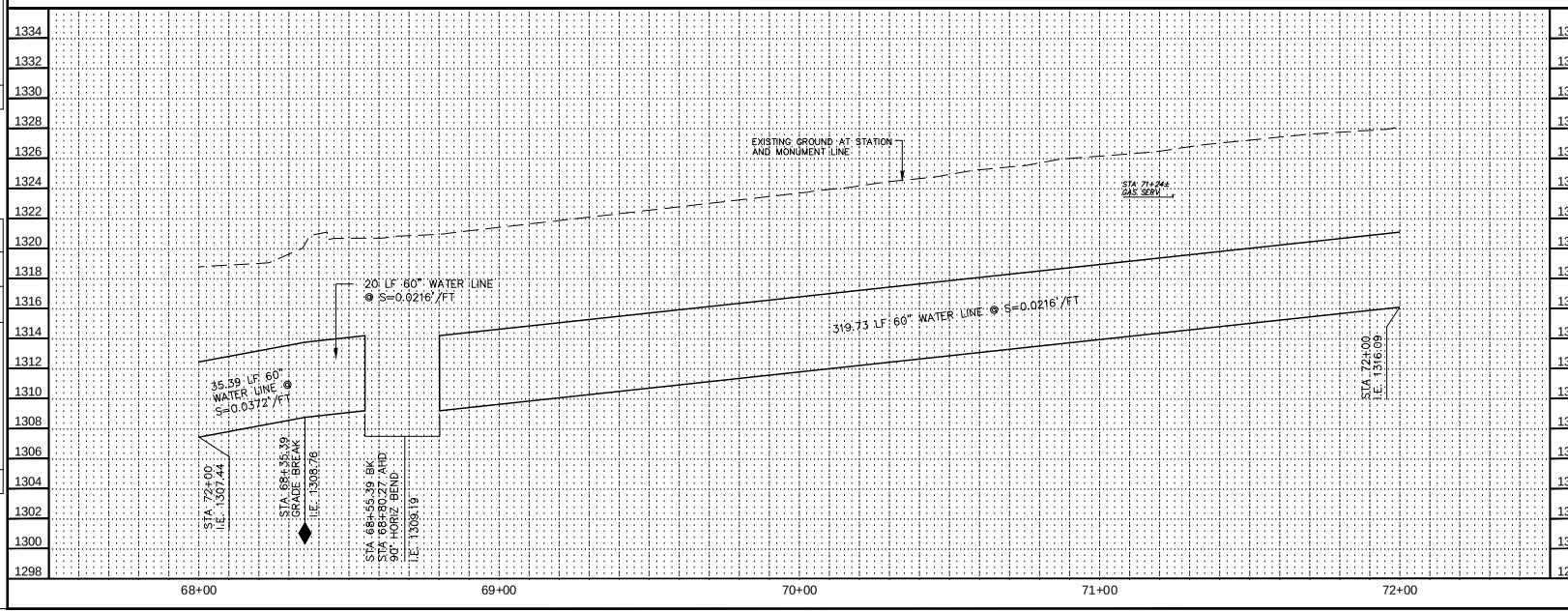
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	21	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	376

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			21	117

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR CONSTRUCTION

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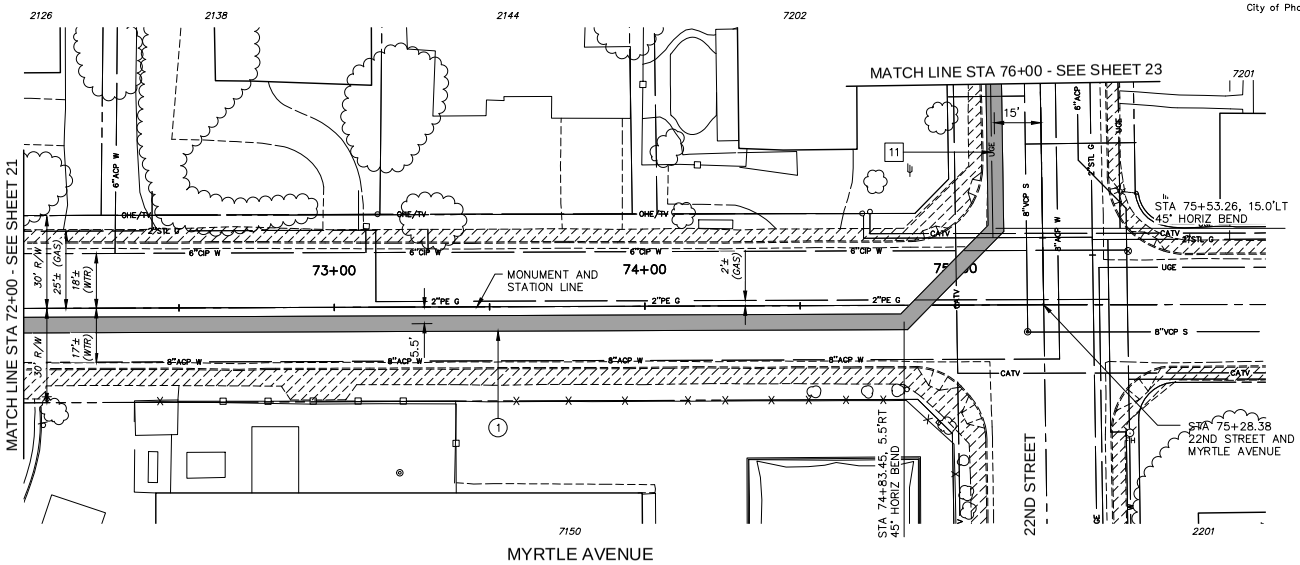

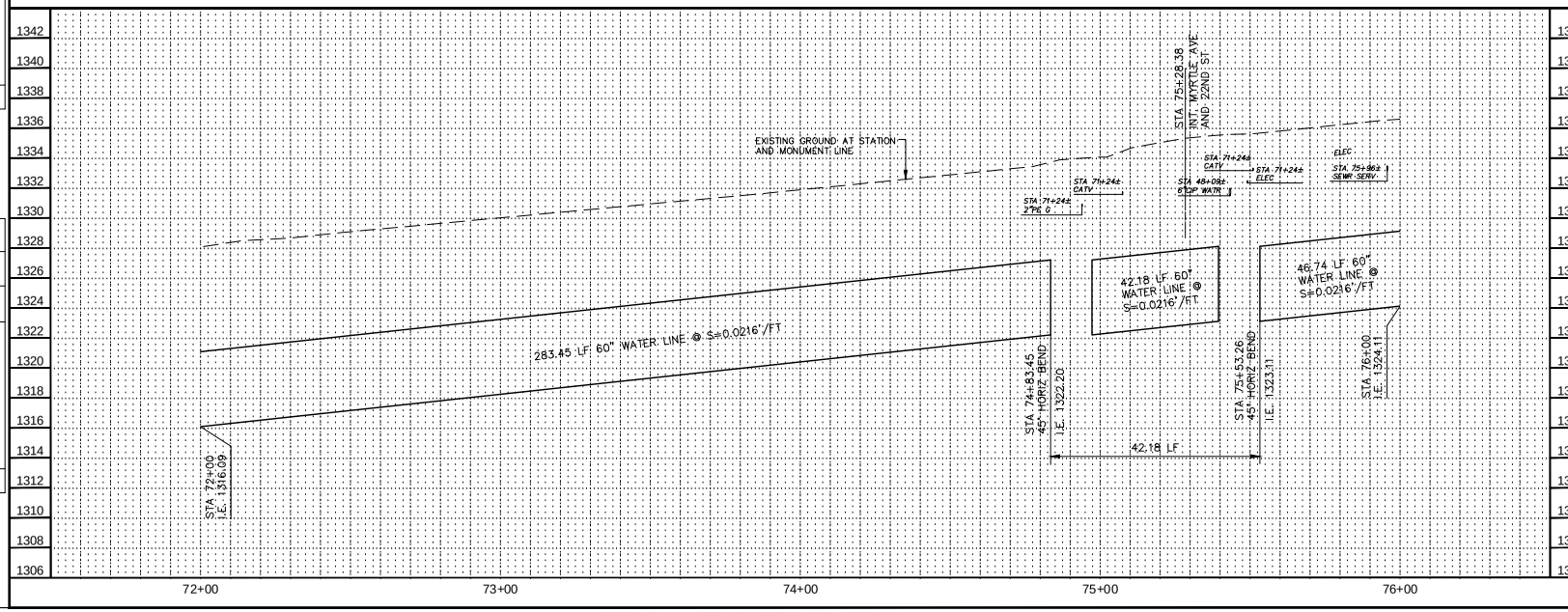

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	373

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
11	RELOCATE UNDERGROUND ELECTRIC	LF	50

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

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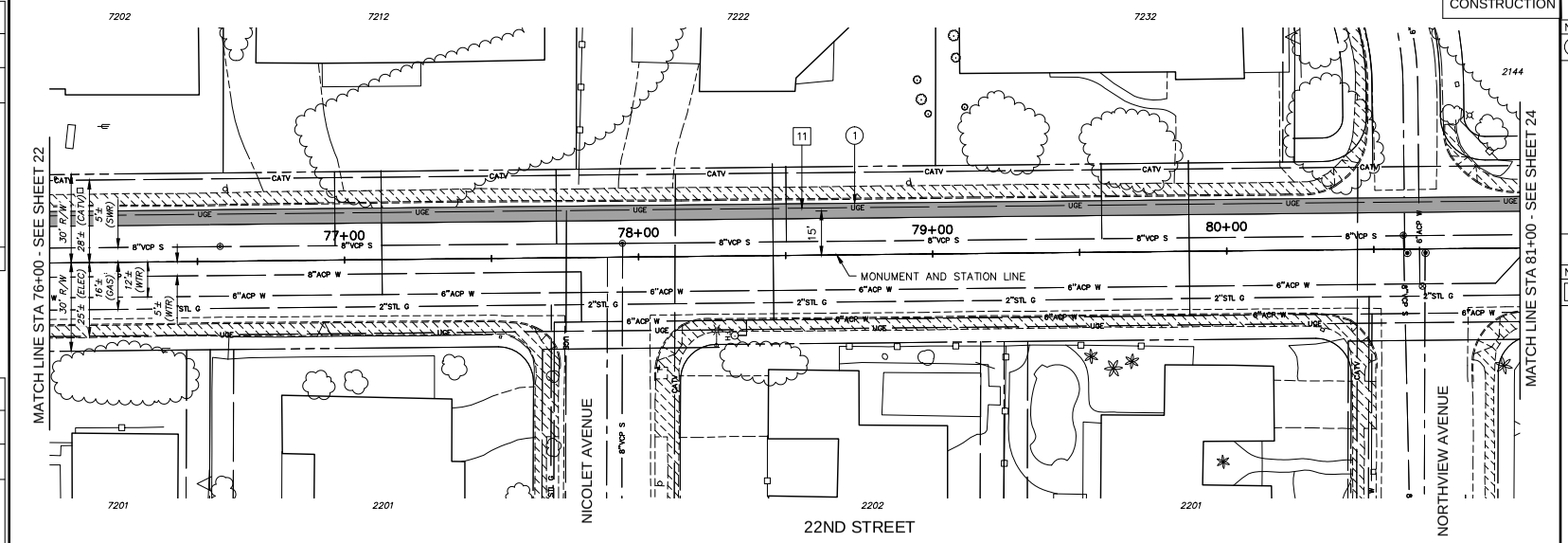

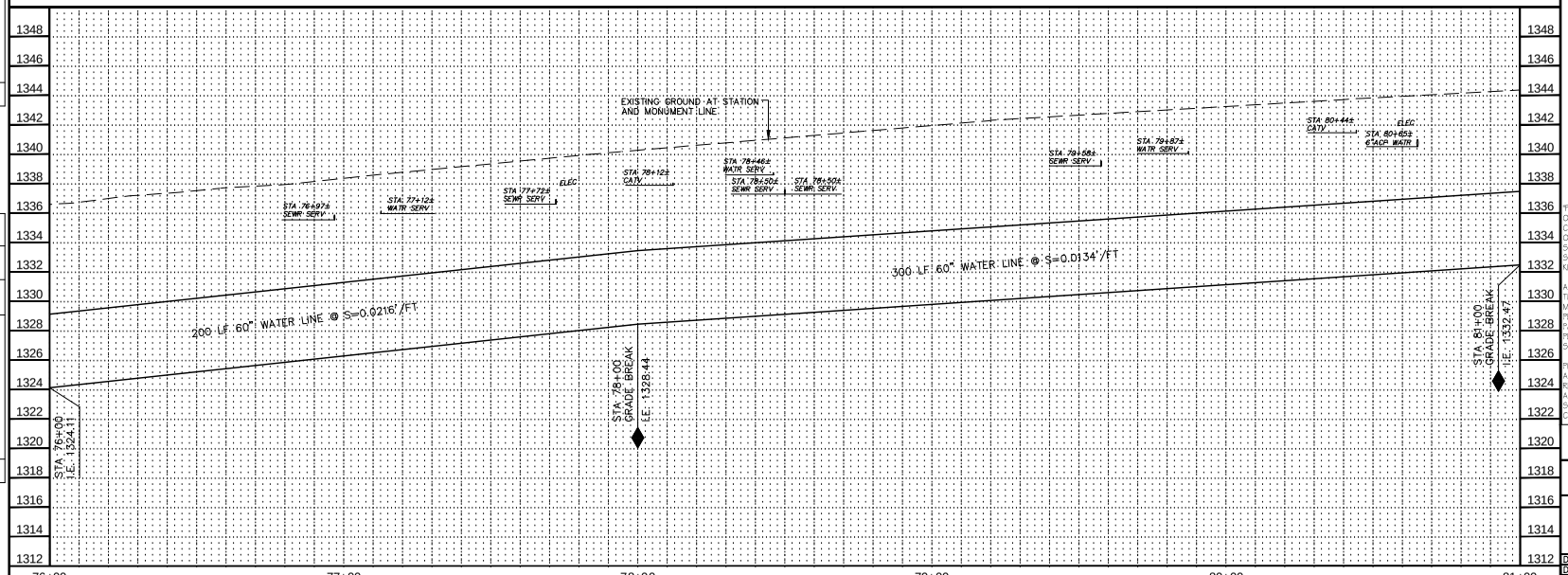

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
11	RELOCATE UNDERGROUND ELECTRIC	LF	500

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

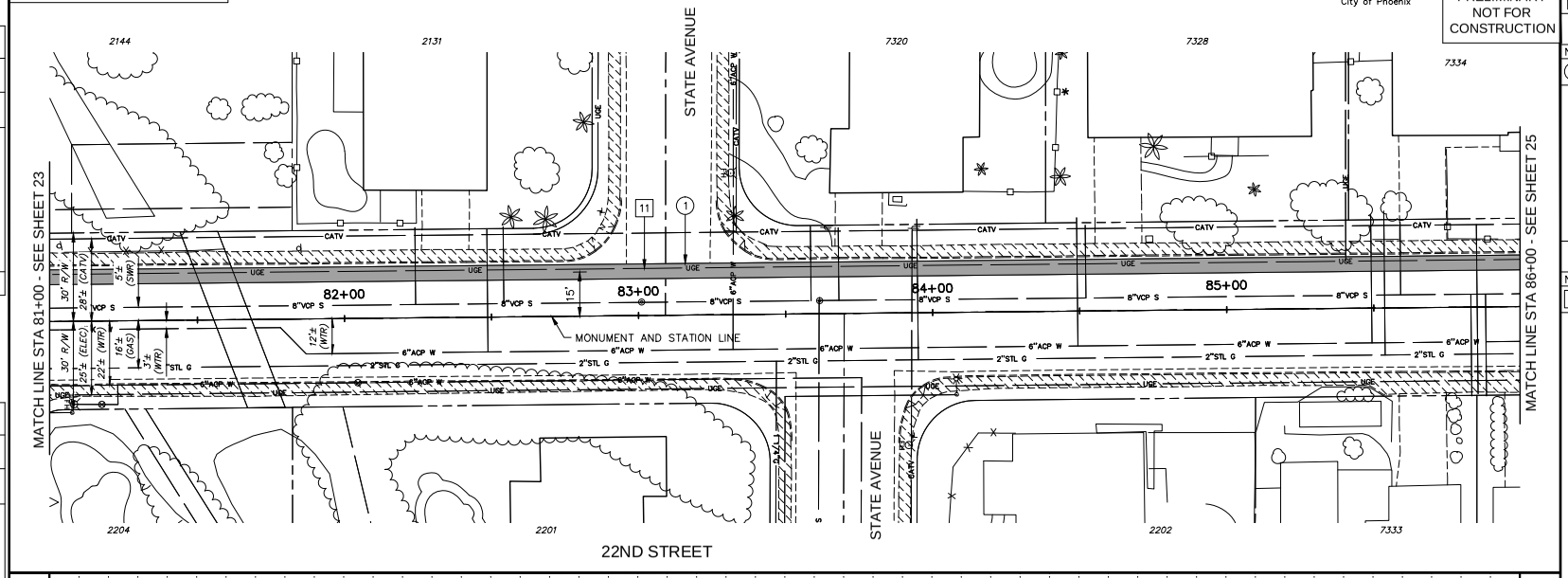
24TH STREET WTP TO 32ND STREET AND BELL ROAD

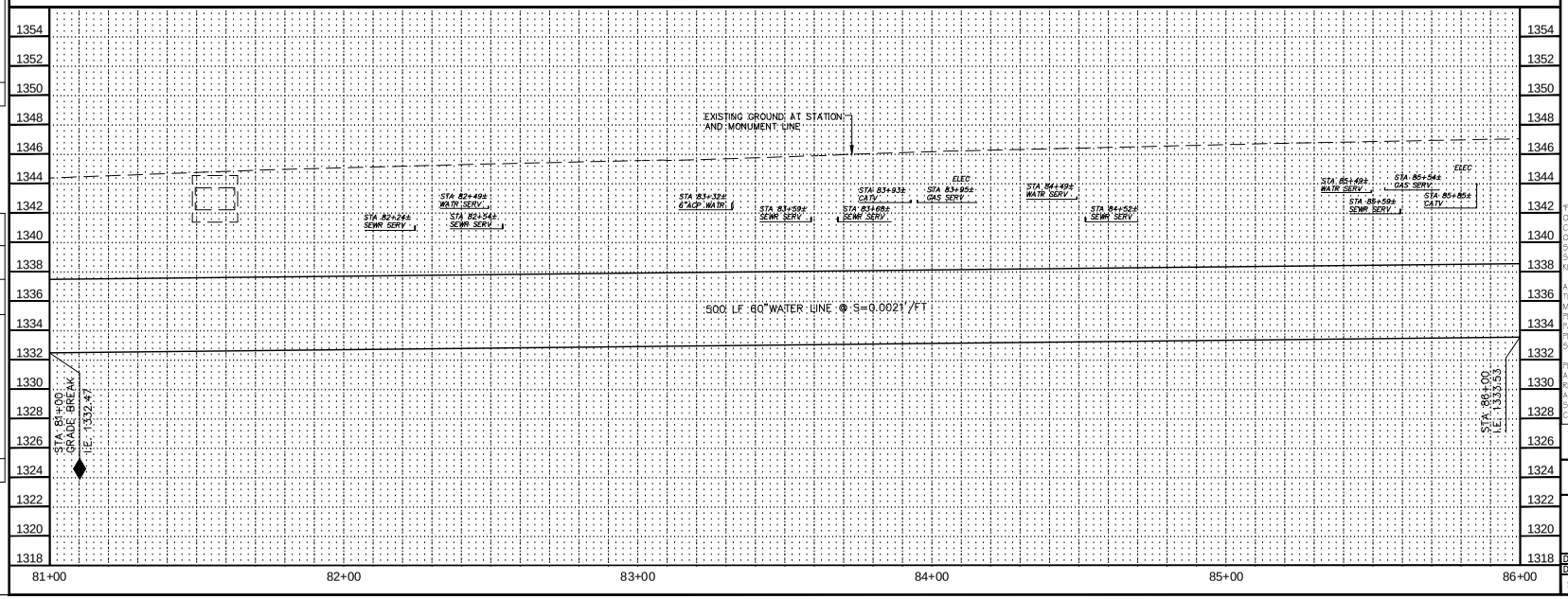
N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	24	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
11	RELOCATE UNDERGROUND ELECTRIC	LF	500

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

Call 811 or click ArizonaBlue811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			24	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

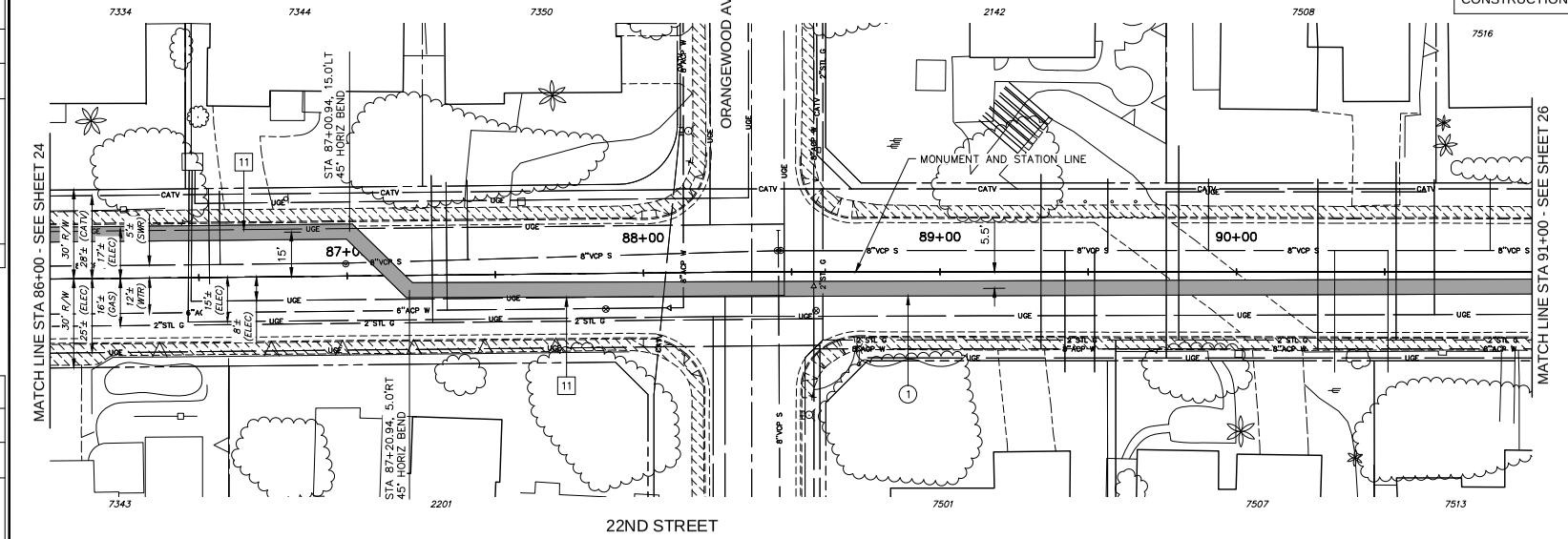
24TH STREET WTP TO 32ND STREET AND BELL ROAD

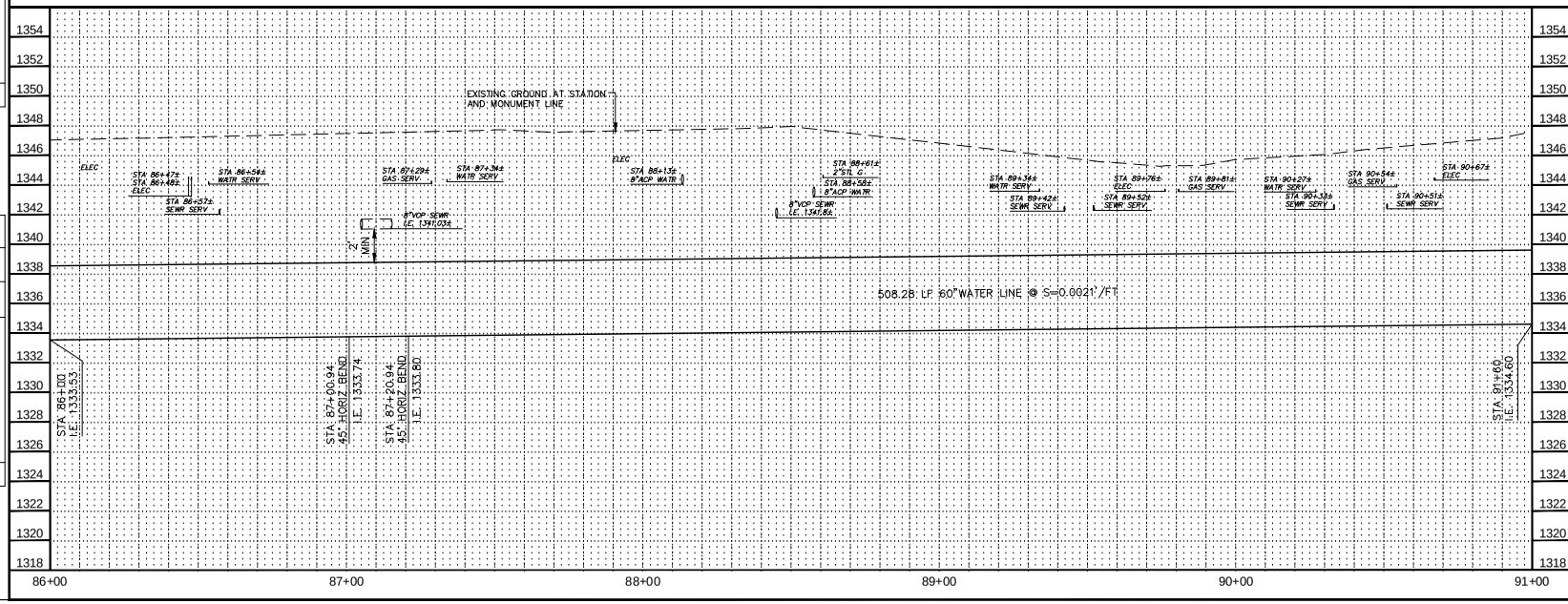
N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	25	117

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2310 W. MISSION LANE, SUITE 4
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CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	509

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
11	RELOCATE UNDERGROUND ELECTRIC	LF	232

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			25	117

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	26	117

PEC
PROJECT ENGINEERING CONSULTANTS
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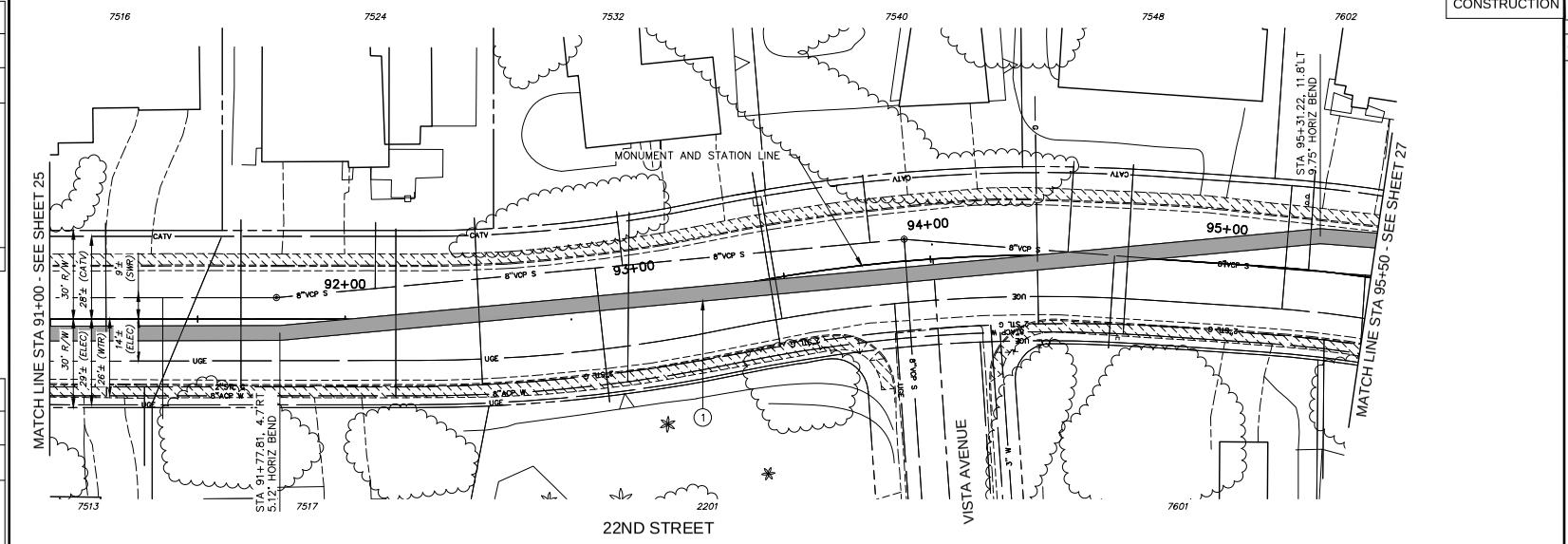
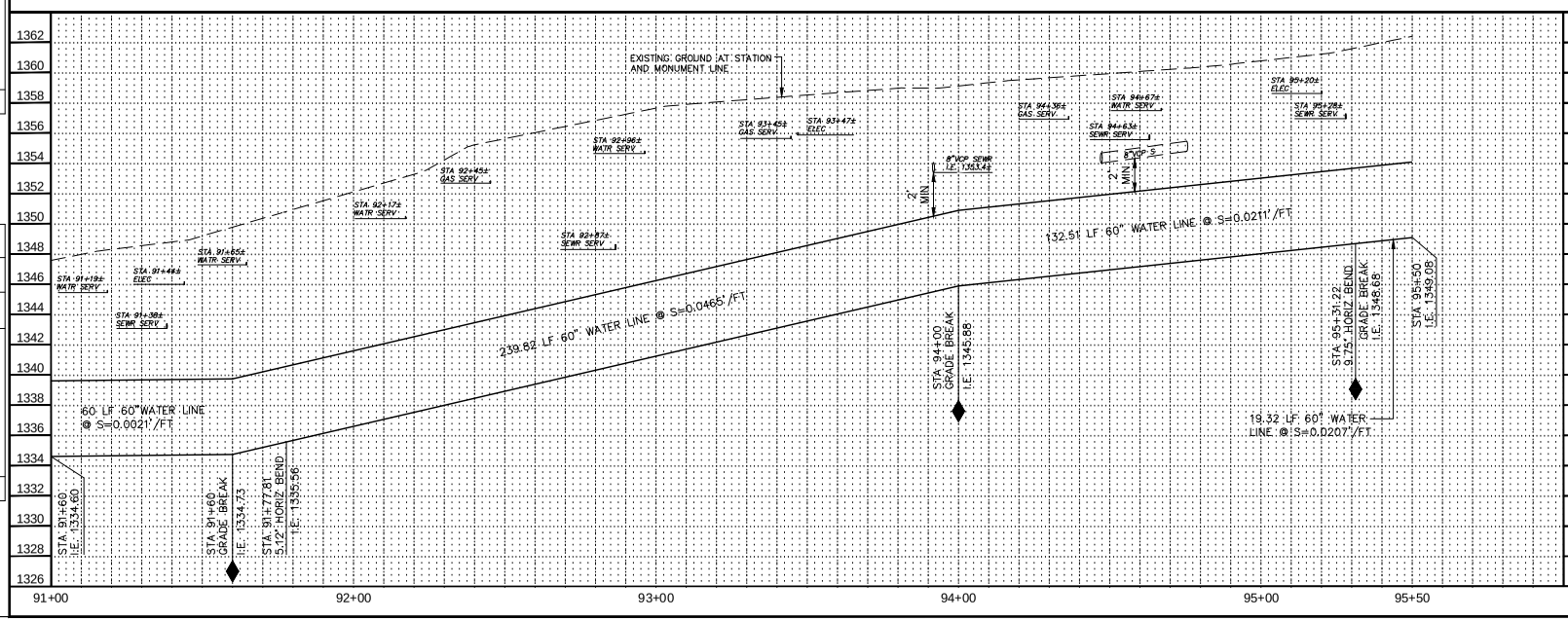
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	452





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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			26	117

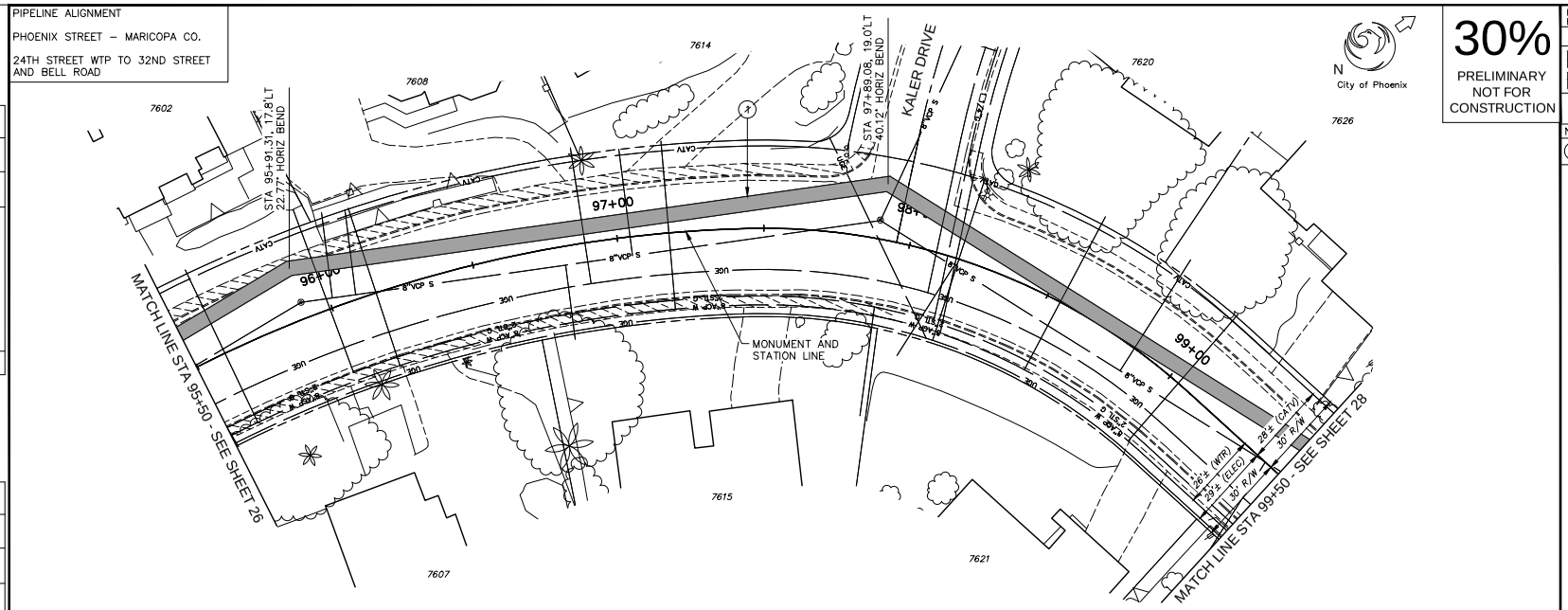
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

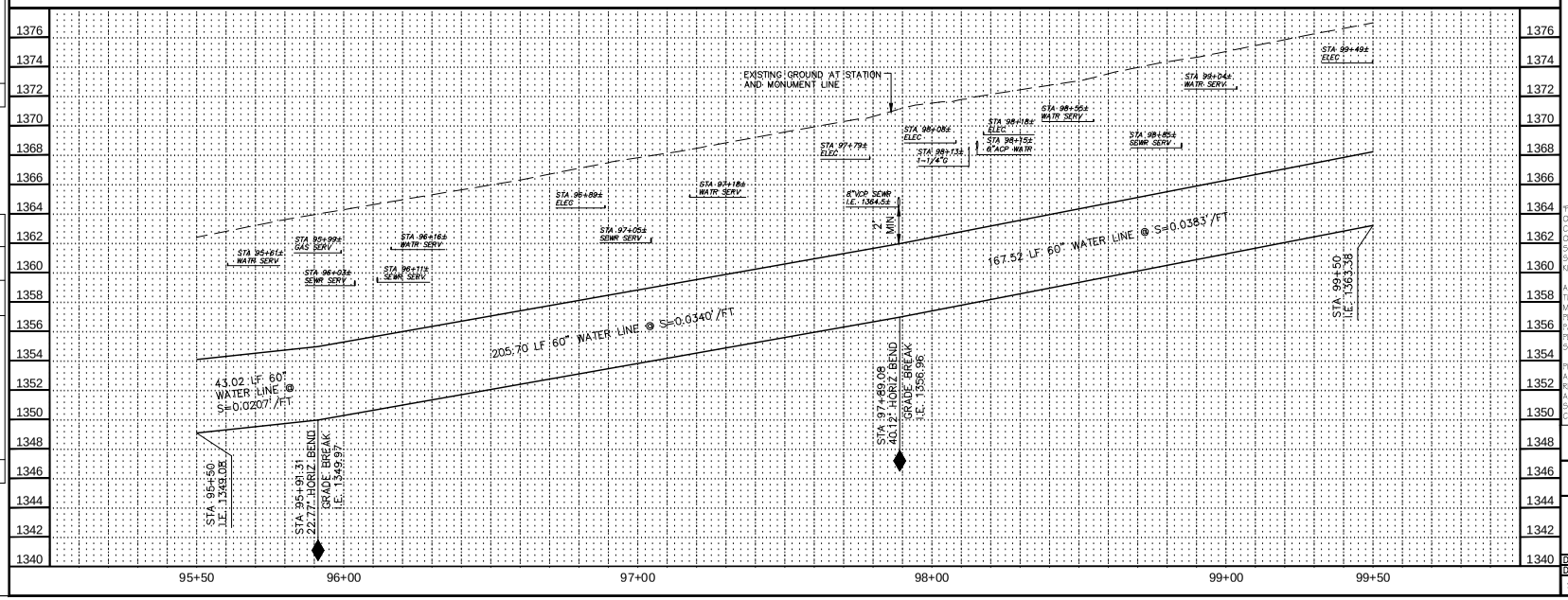
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



22ND STREET



30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	27	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	417

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			27	117

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

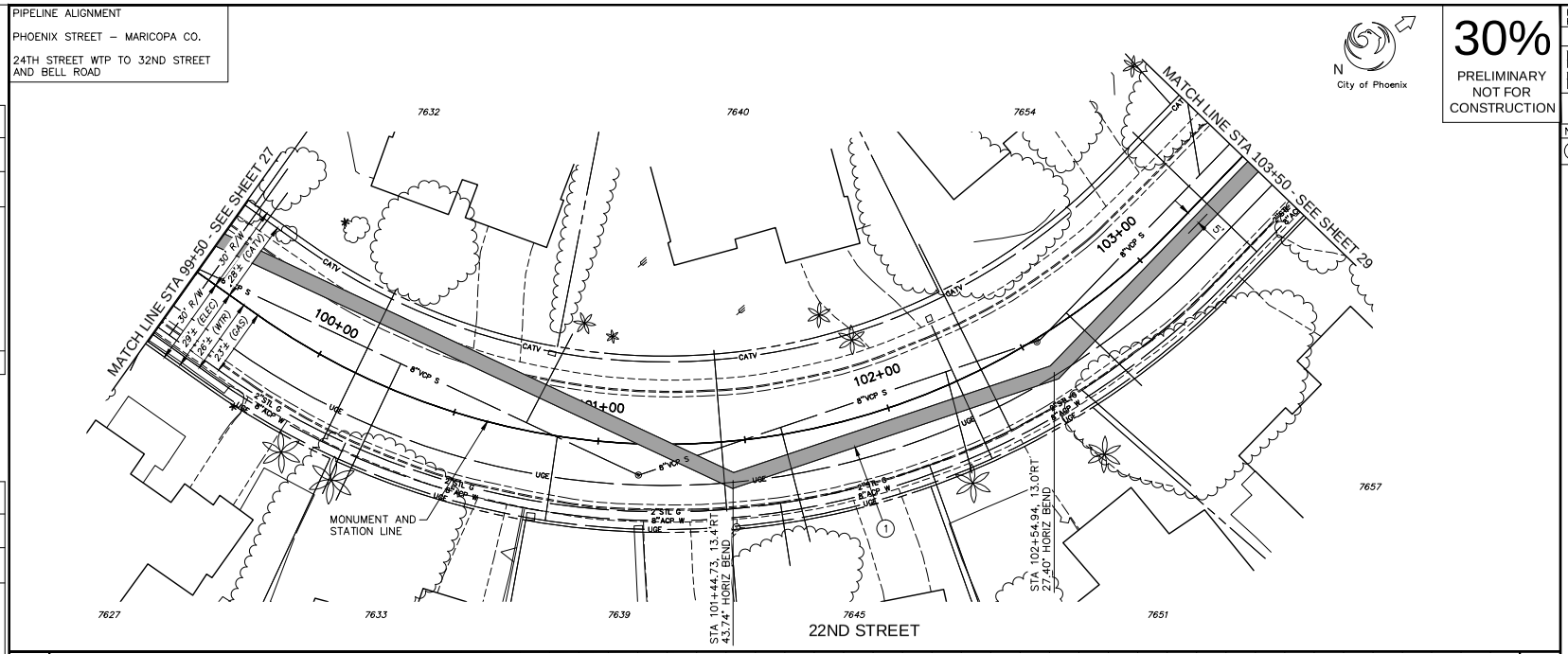
REVISION BY CITY OF PHOENIX

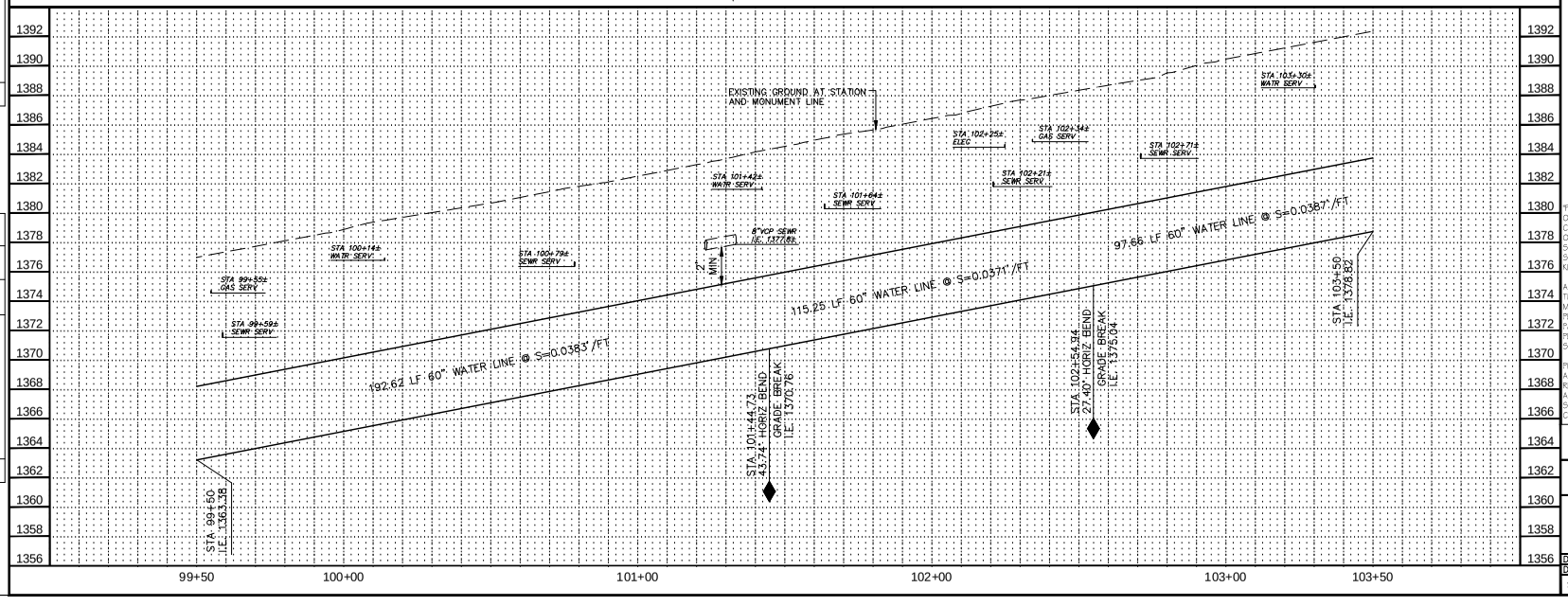
NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	28	117

30%

PRELIMINARY NOT FOR CONSTRUCTION

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
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Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	406

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			28	117

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REVISION BY CITY OF PHOENIX

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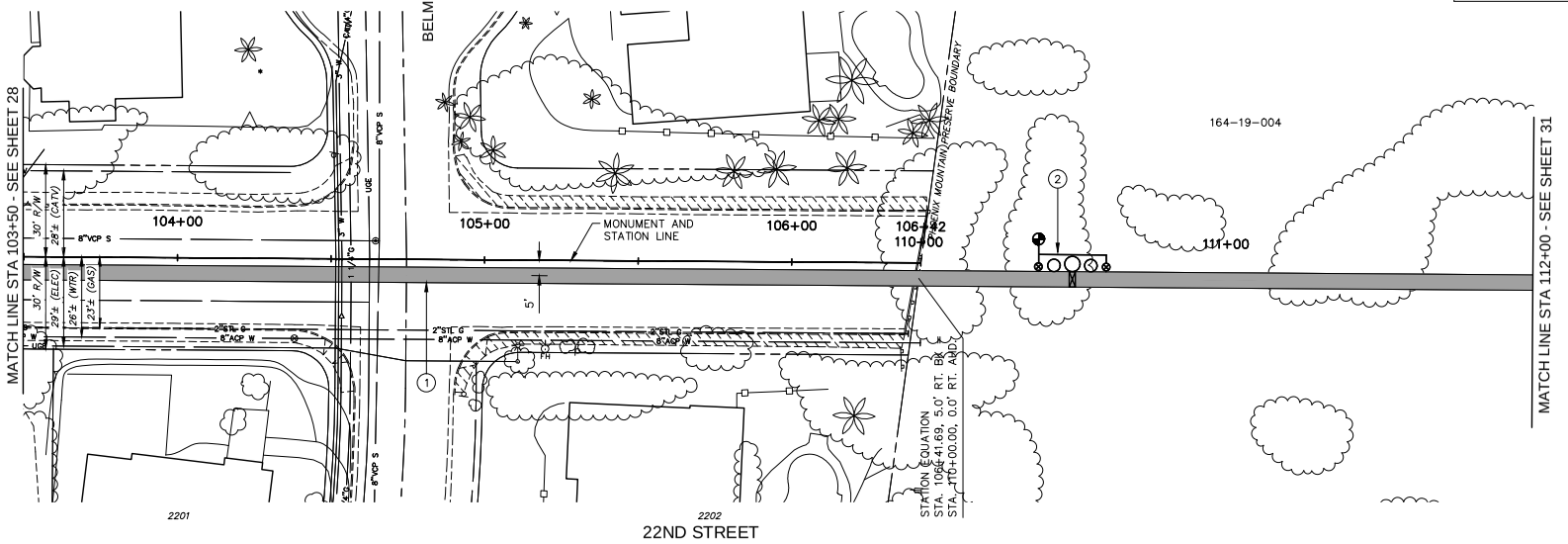
NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



SEE SHEET 30 FOR PROFILE

103+50 104+00 105+00 106+00 111+00 112+00

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	29	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	492
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			29	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	30	117

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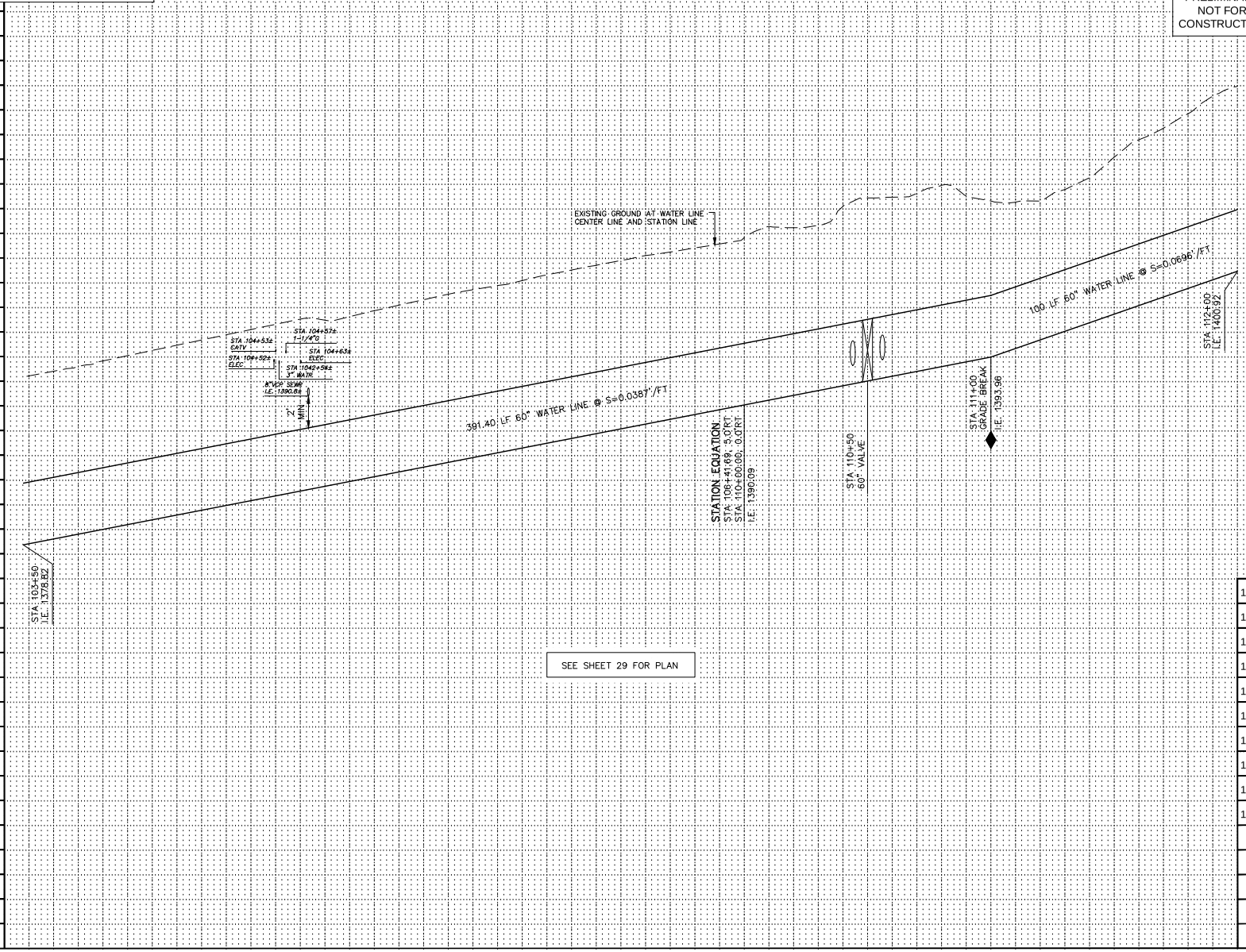

SEE SHEET 29 FOR PLAN

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			30	117

REVISION BY CITY OF PHOENIX

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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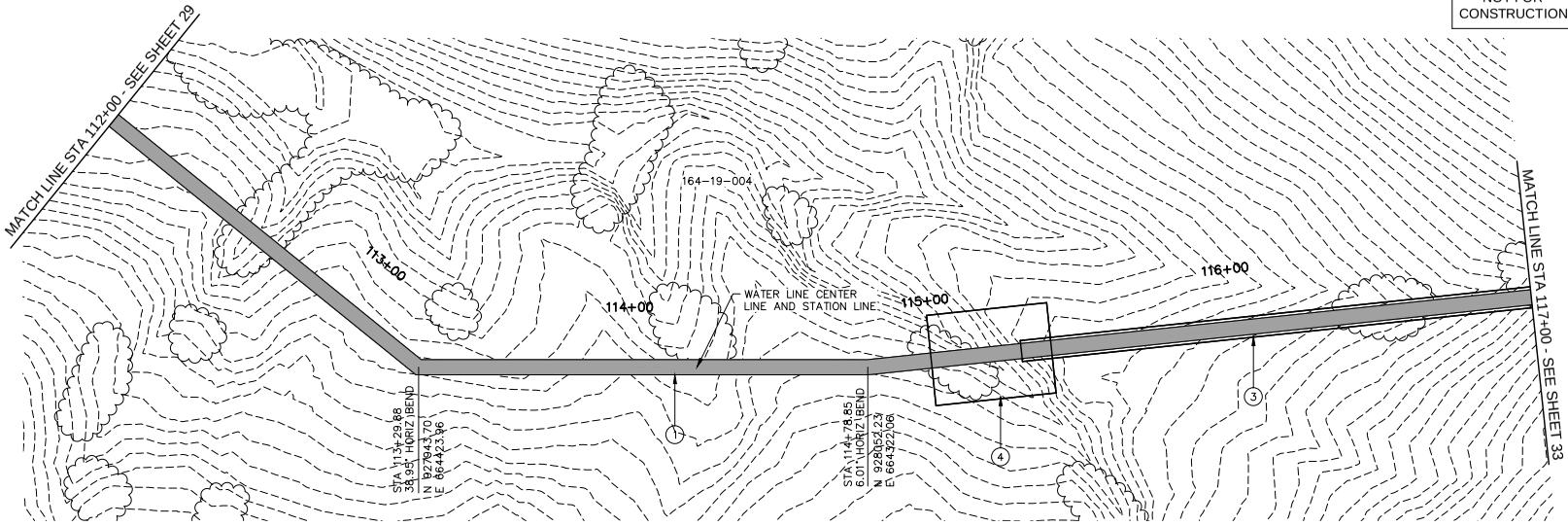

PHOENIX MOUNTAIN PRESERVE

SEE SHEET 32 FOR PROFILE

112+00 113+00 114+00 115+00 116+00 117+00

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
3	INSTALL 84" STEEL CASING	LF	170
4	JACKING / RECEIVING PIT		

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA 811

Call 811 or click ArizonaBlue811.com

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			31	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

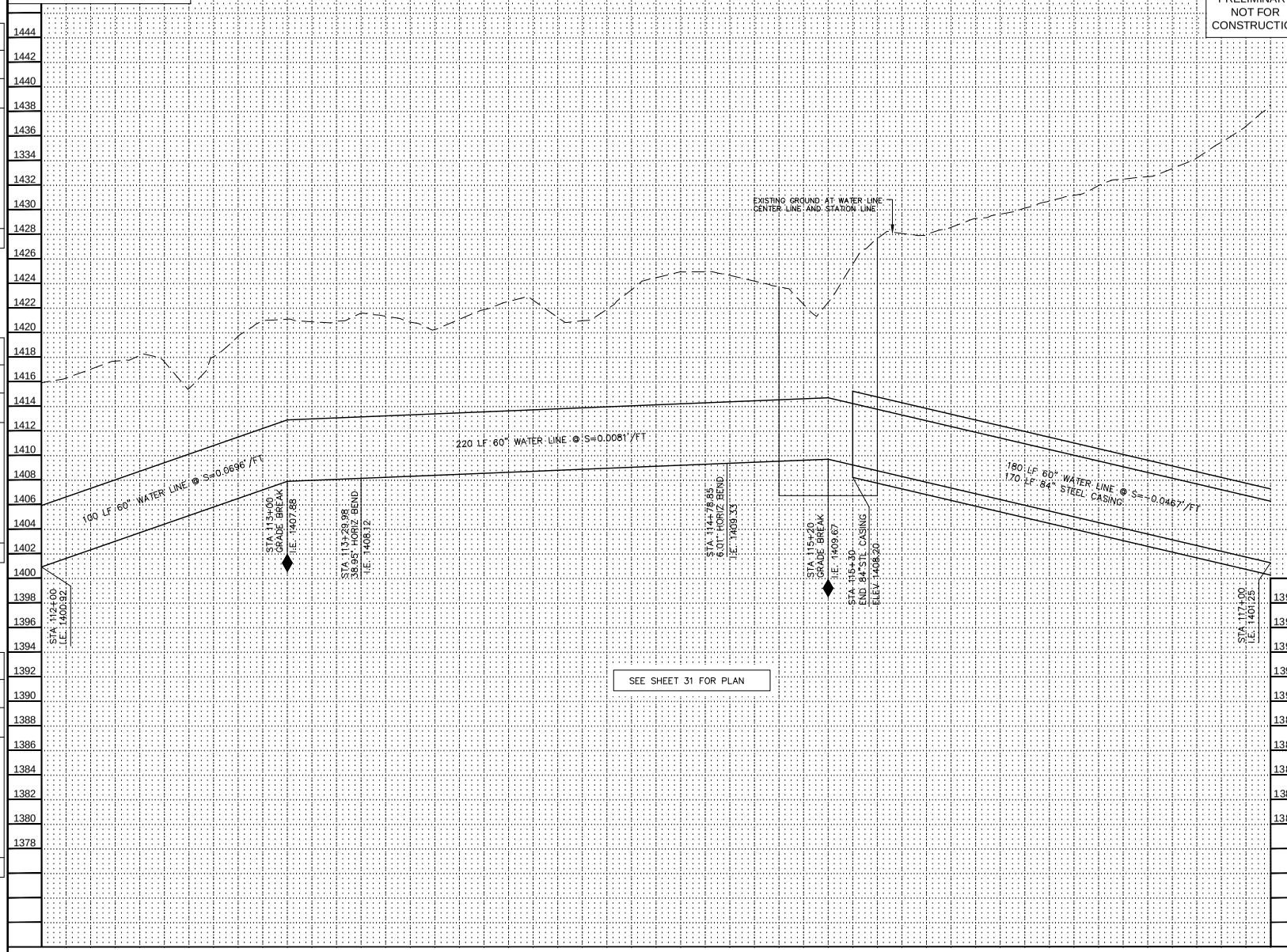
24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	32	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CKD BY	DATE

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			32	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

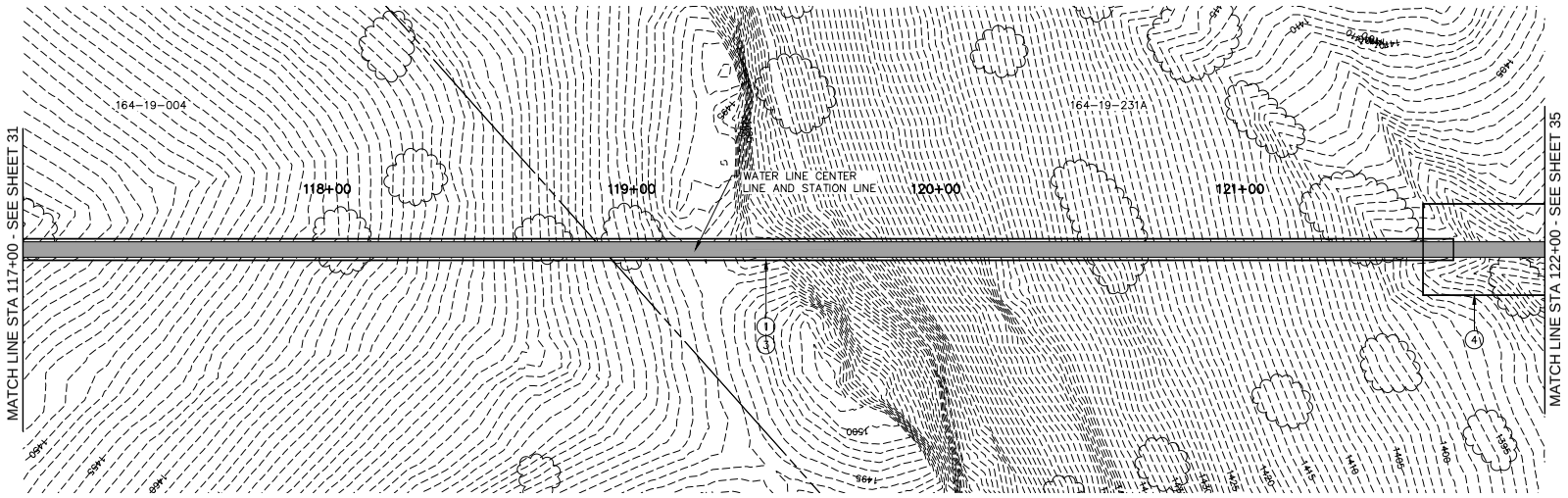
City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	33	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



SEE SHEET 34 FOR PROFILE

117+00 118+00 119+00 120+00 121+00 122+00

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
3	INSTALL 84" STEEL CASING	LF	470
4	JACKING / RECEIVING PIT		

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			33	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

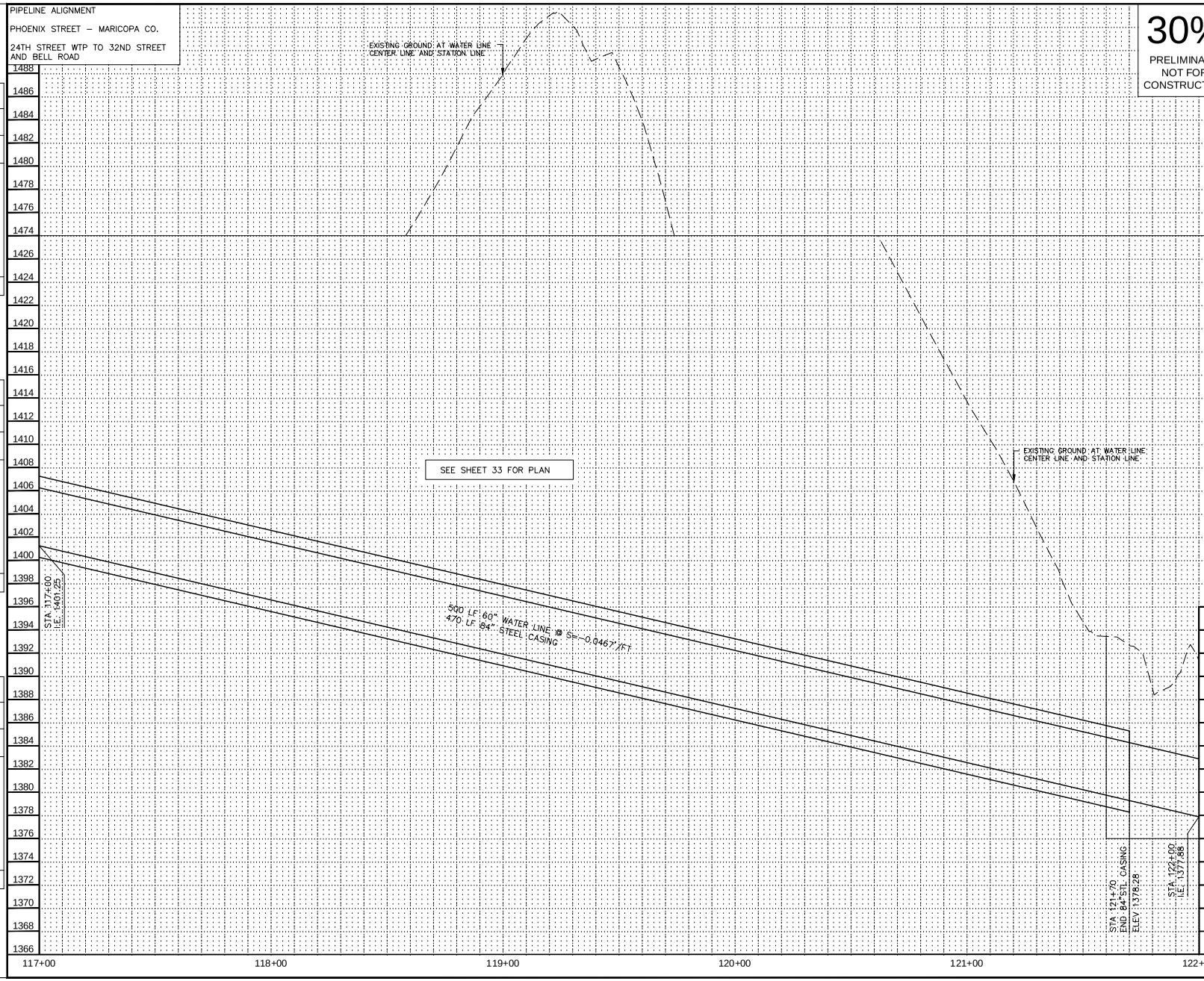
24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	34	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



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REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	34	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

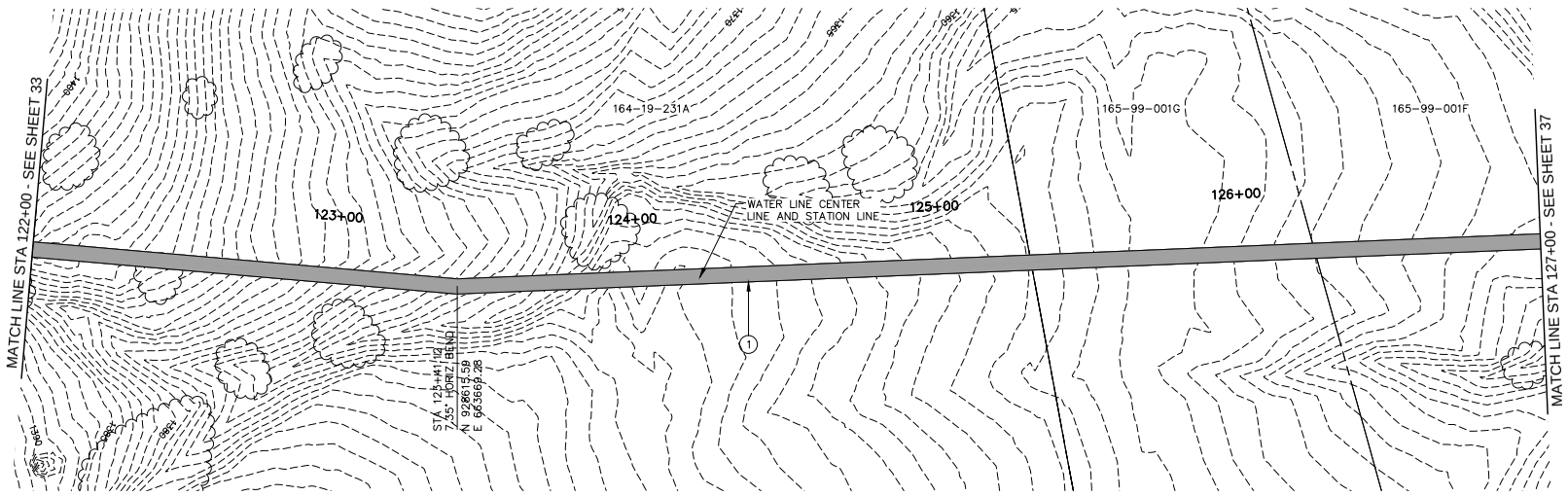
City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	35	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



PHOENIX MOUNTAIN PRESERVE

SEE SHEET 36 FOR PROFILE

122+00 123+00 124+00 125+00 126+00 127+00

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			35	117

REVISION BY CITY OF PHOENIX

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

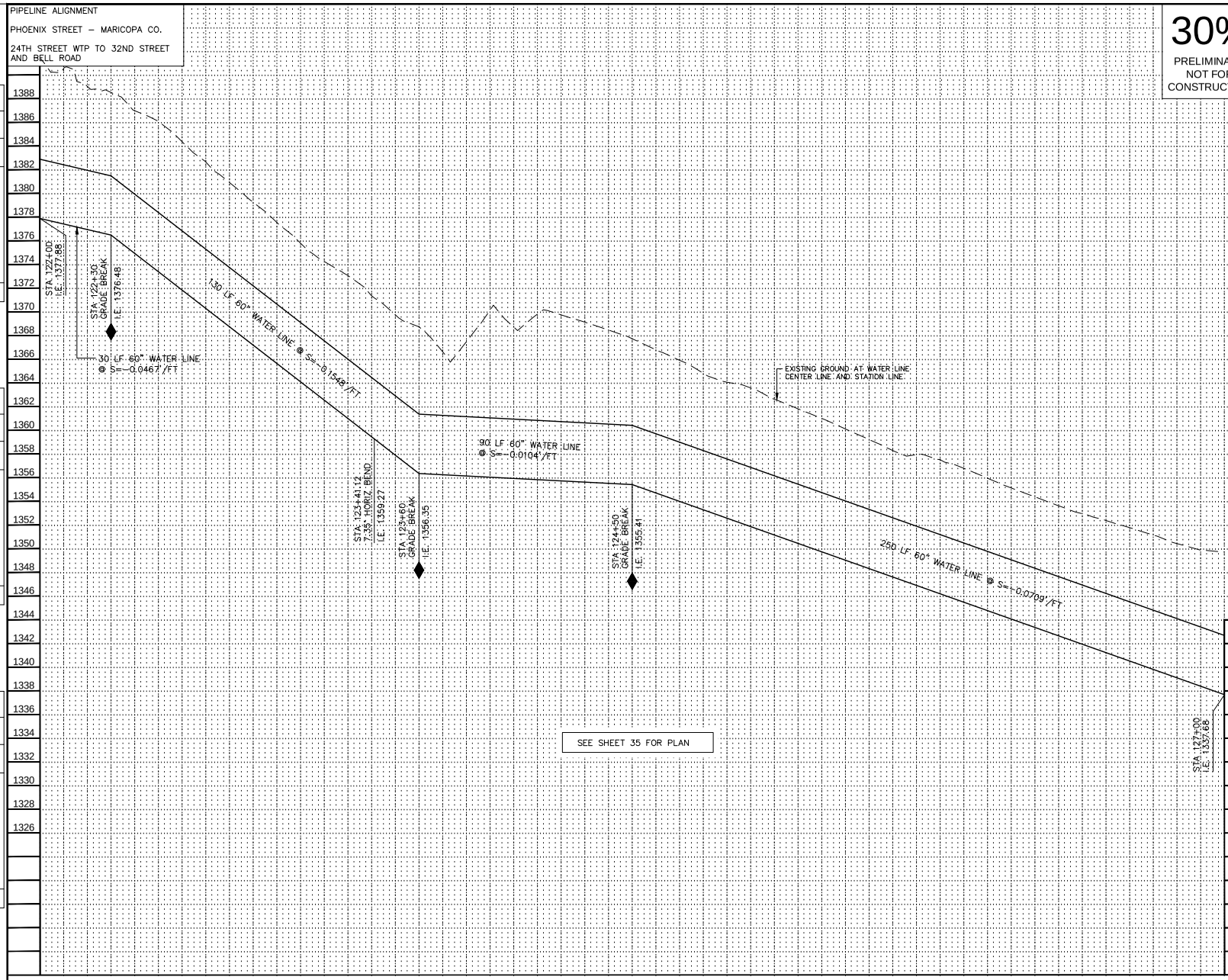
24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	36	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



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NO.	DESCRIPTION	REV BY	CKD BY	DATE

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			36	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	37	117

PEC
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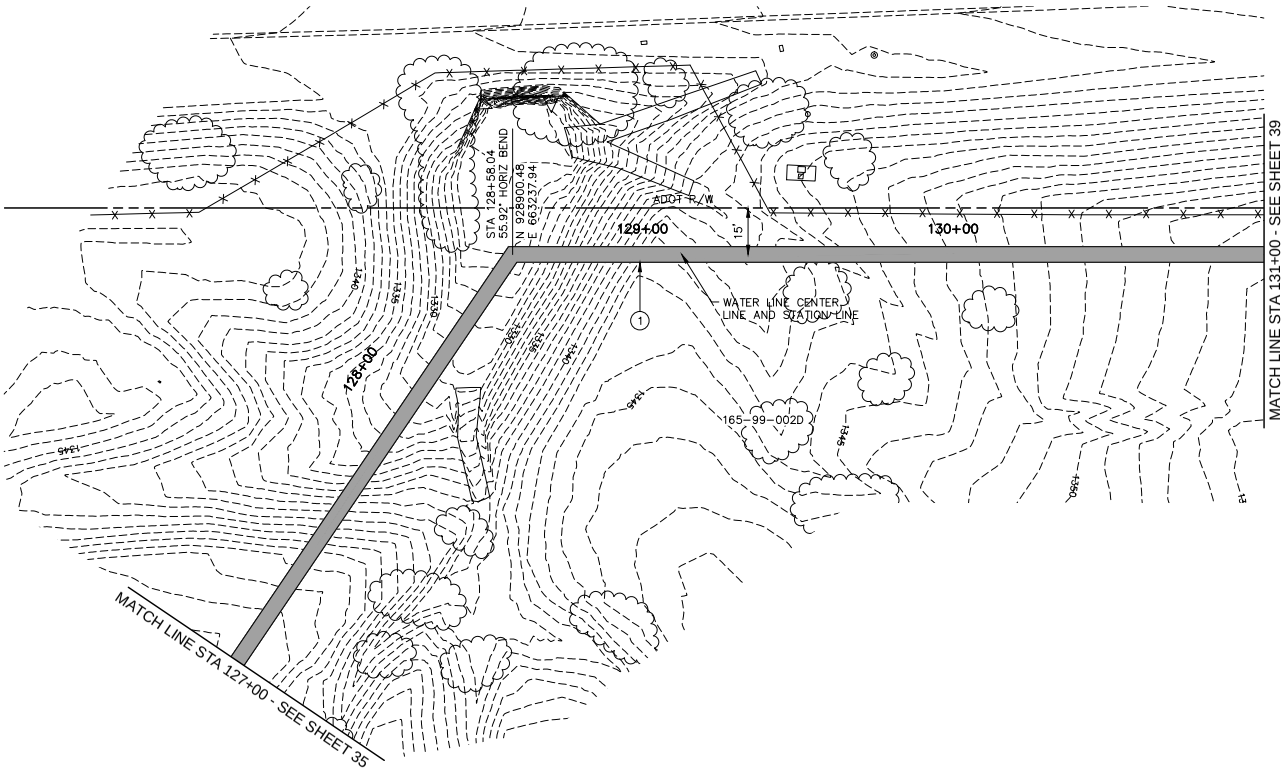

PHOENIX MOUNTAIN PRESERVE

SEE SHEET 38 FOR PROFILE

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
	INSTALL 60" WATER LINE	LF	400

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			37	117

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	38	117

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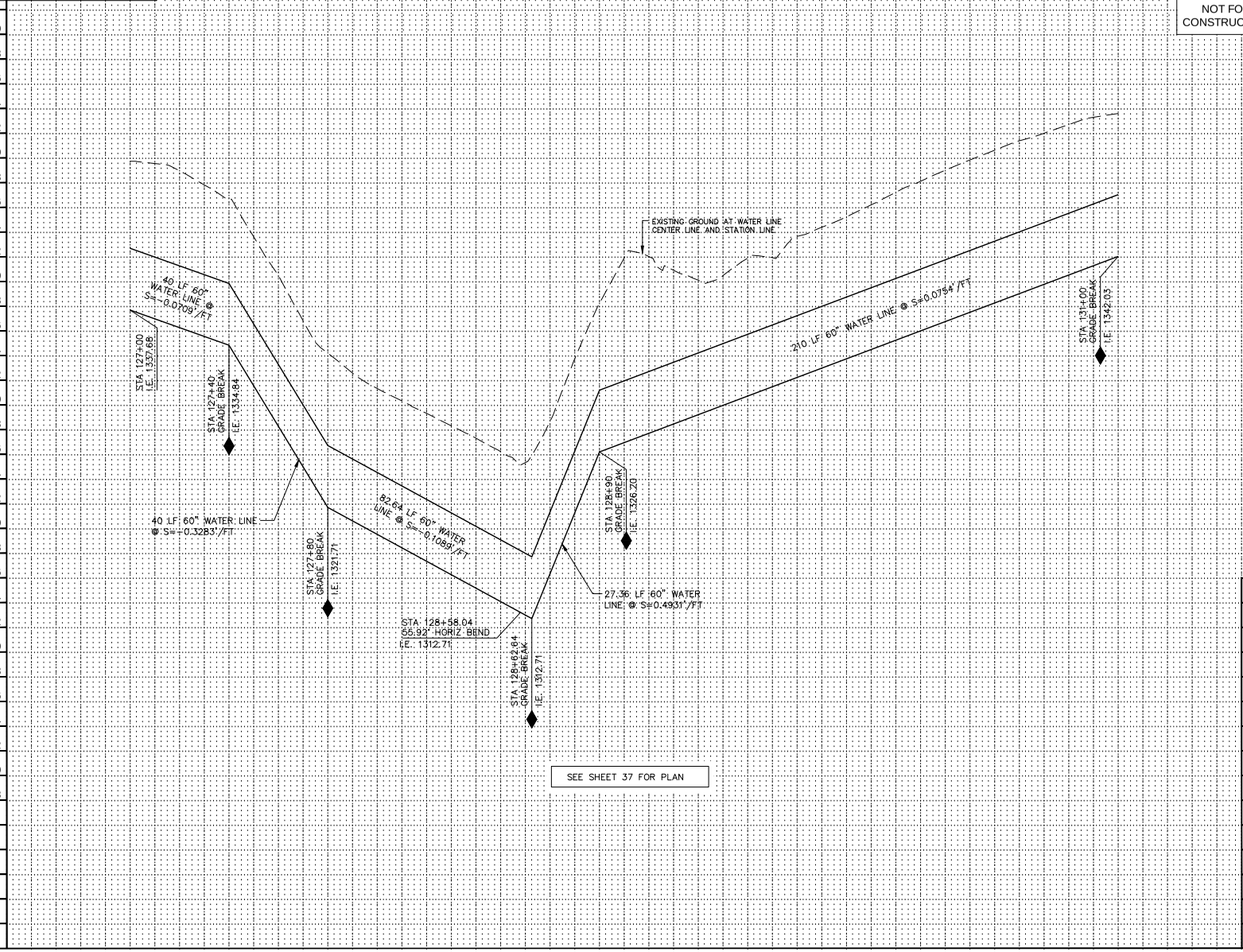

SEE SHEET 37 FOR PLAN

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ARIZONA811

Call 811 or click ArizonaB11.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			38	117

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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PEC
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Phone: (602) 906-1901
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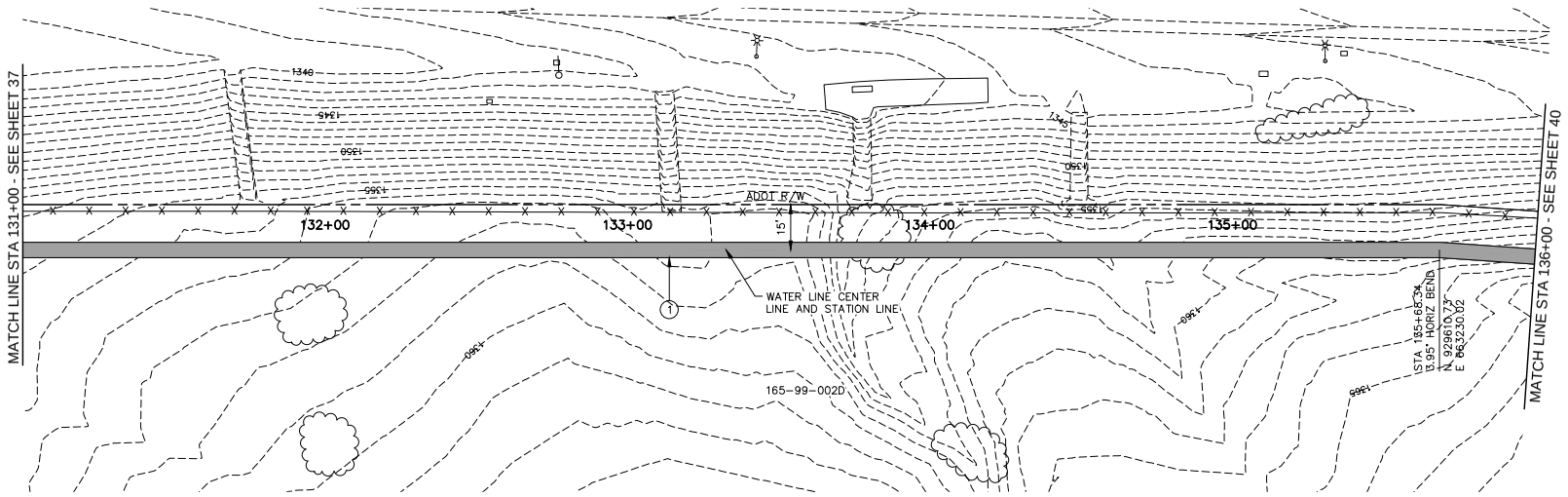
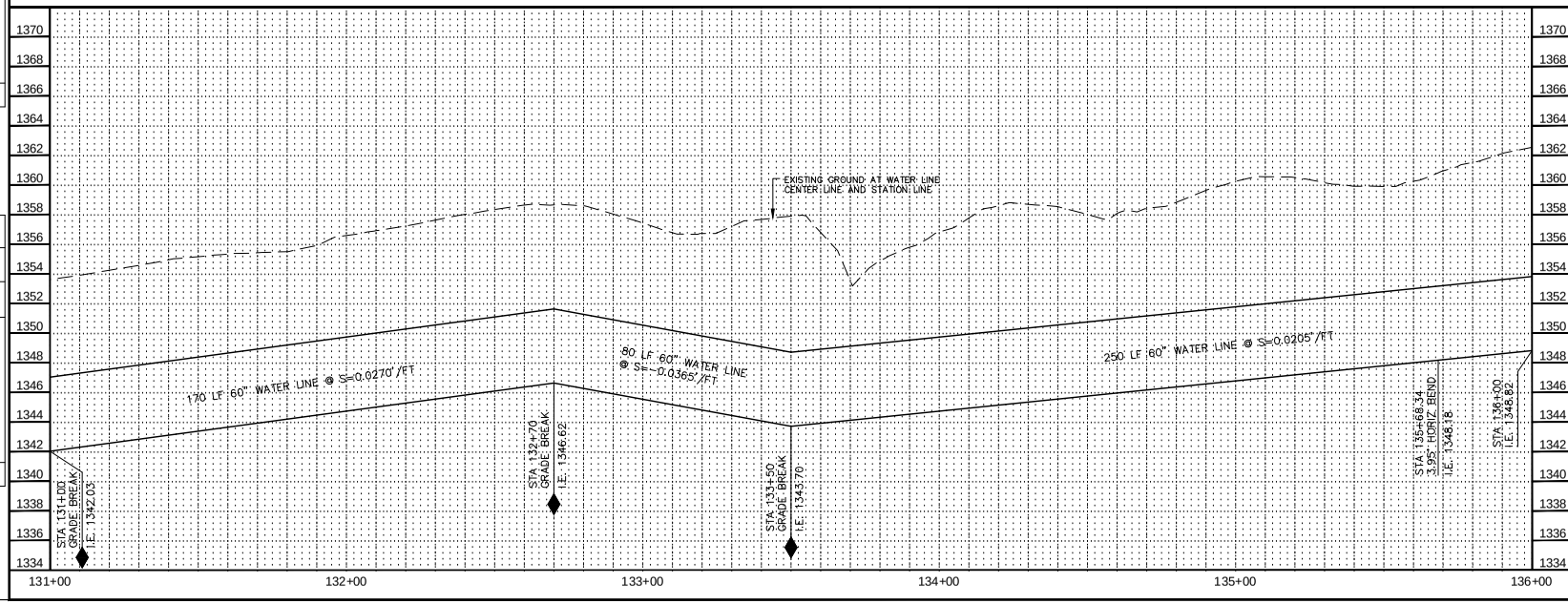


PHOENIX MOUNTAIN PRESERVE



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA 811

Call 811 or click ArizonaBlue811.com

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			39	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

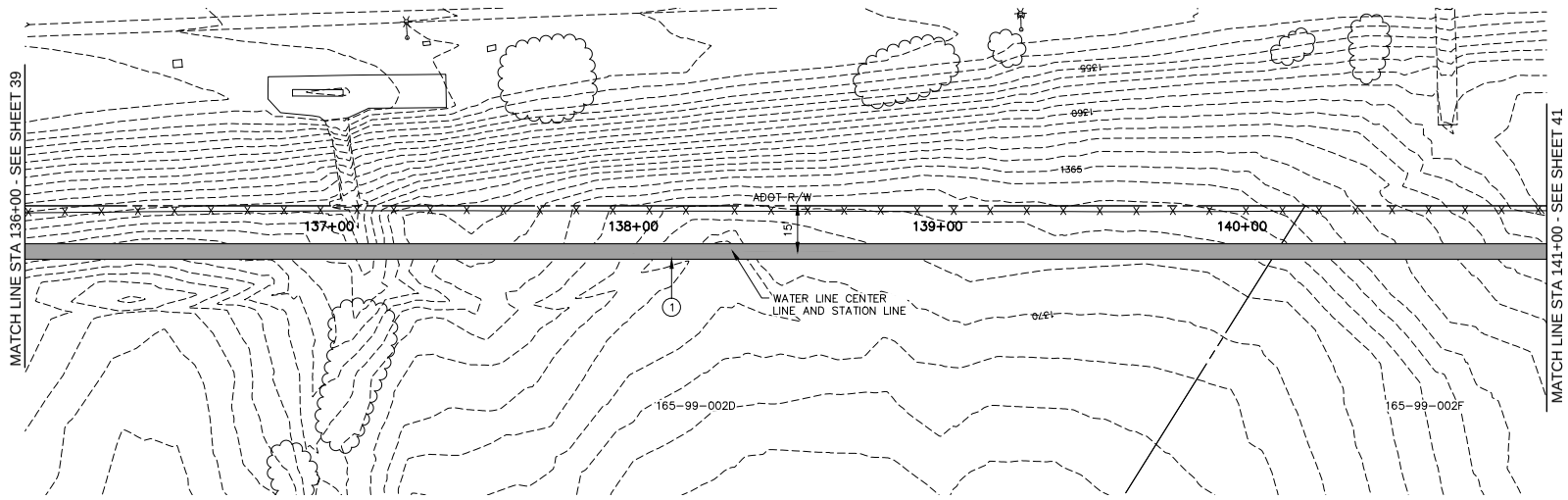
City of Phoenix

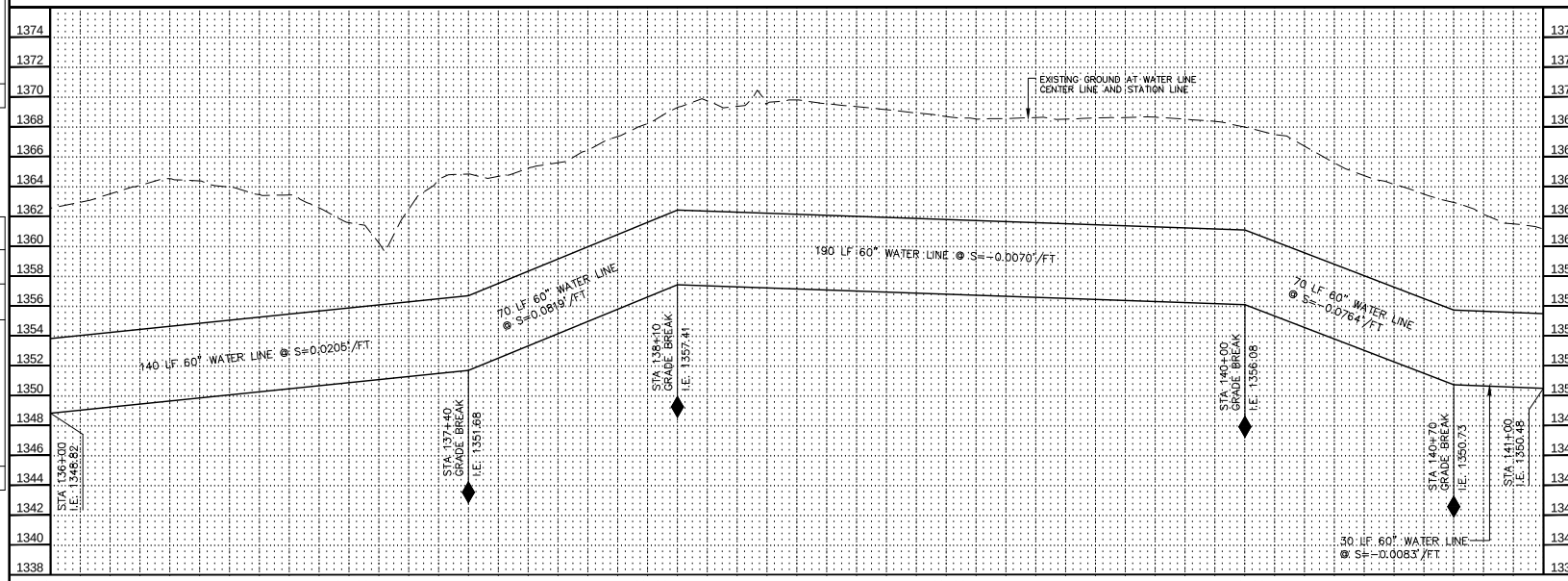
30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	40	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			40	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	41	117

PEC
PROJECT ENGINEERING CONSULTANTS
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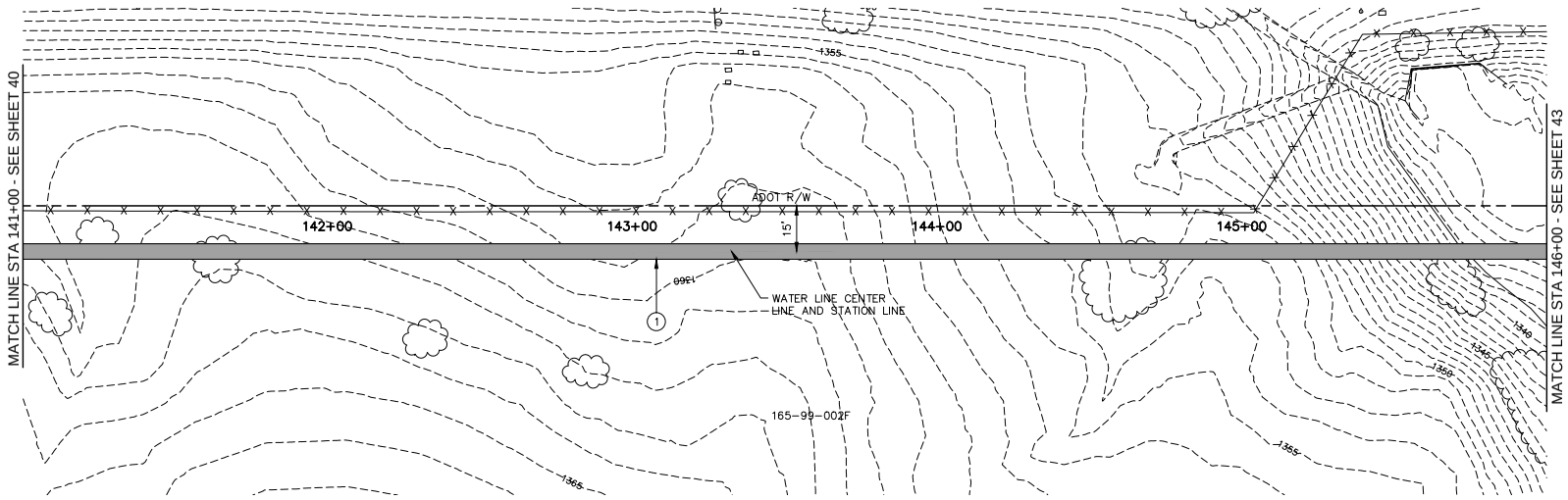
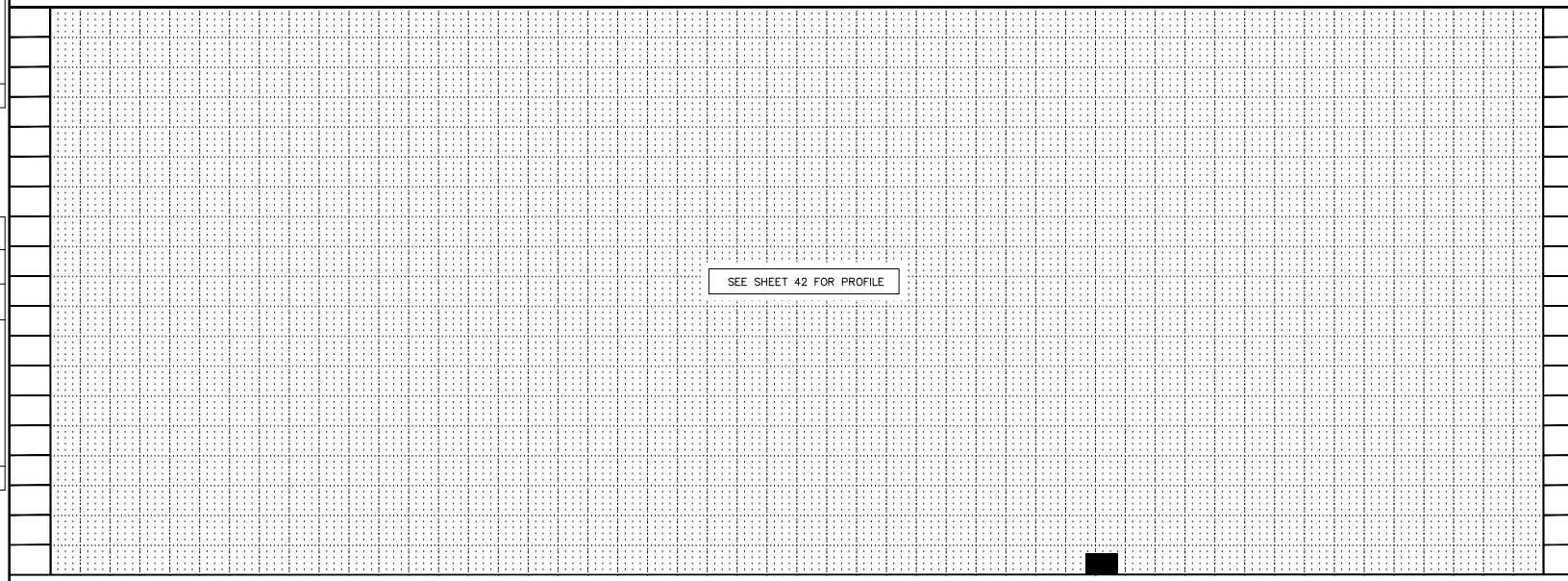
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500



PHOENIX MOUNTAIN PRESERVE



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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			41	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	42	117

PEC
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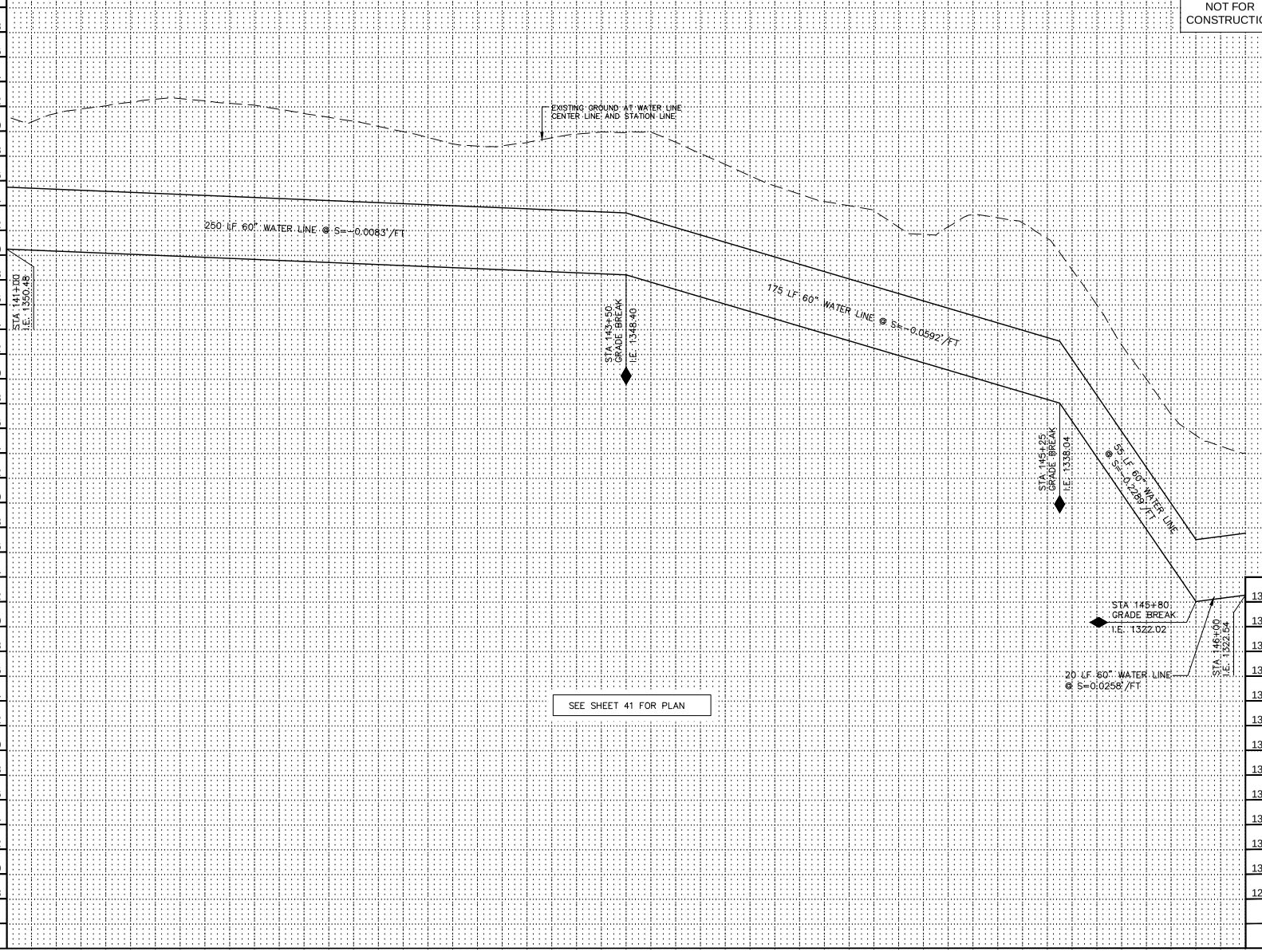

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			42	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

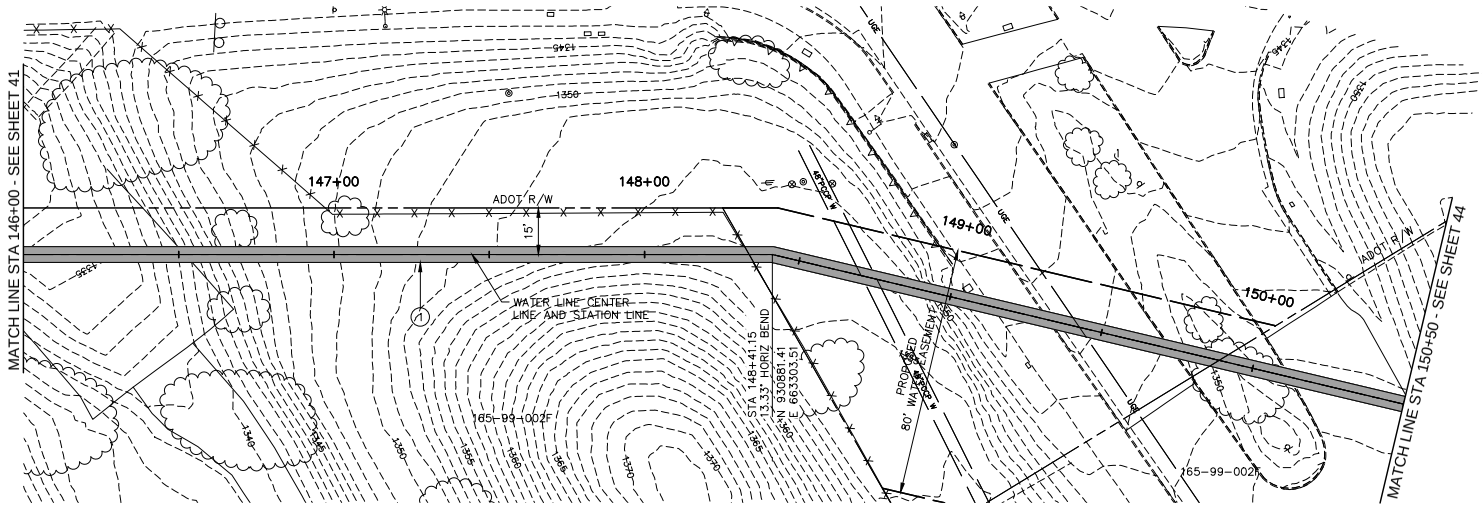
PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	43	117

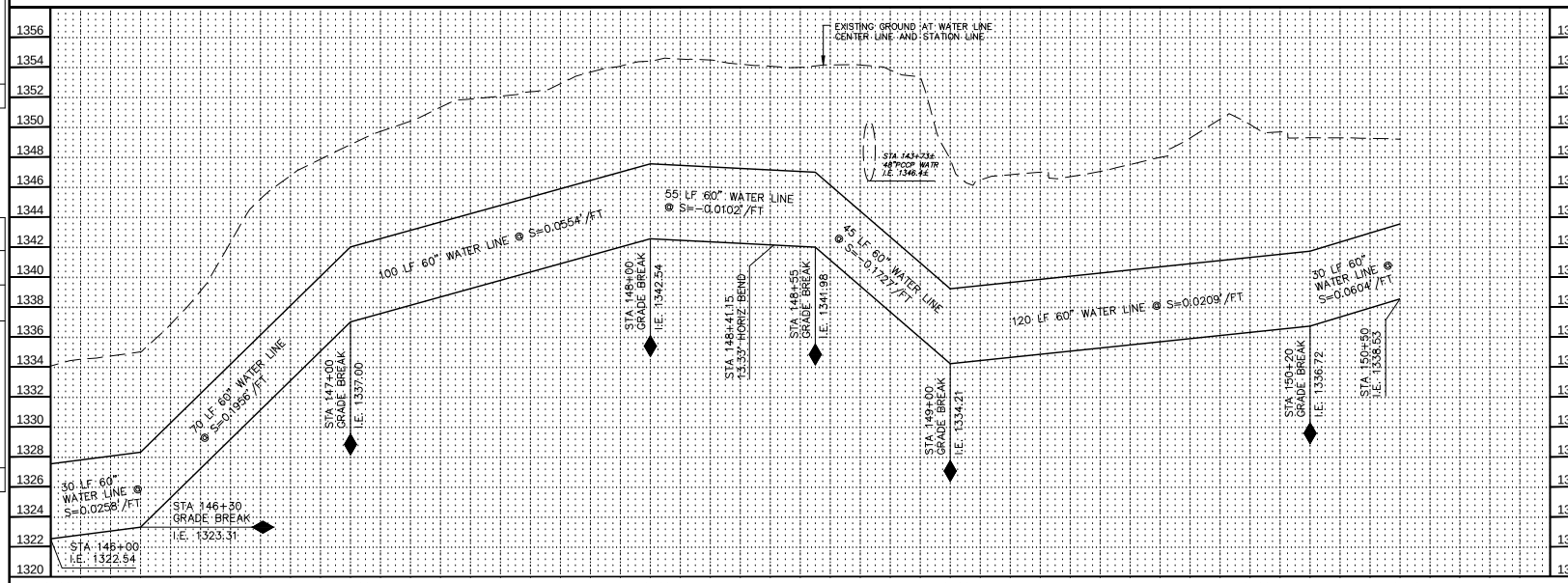
PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450



PHOENIX MOUNTAIN PRESERVE



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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			43	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	44	117

PEC
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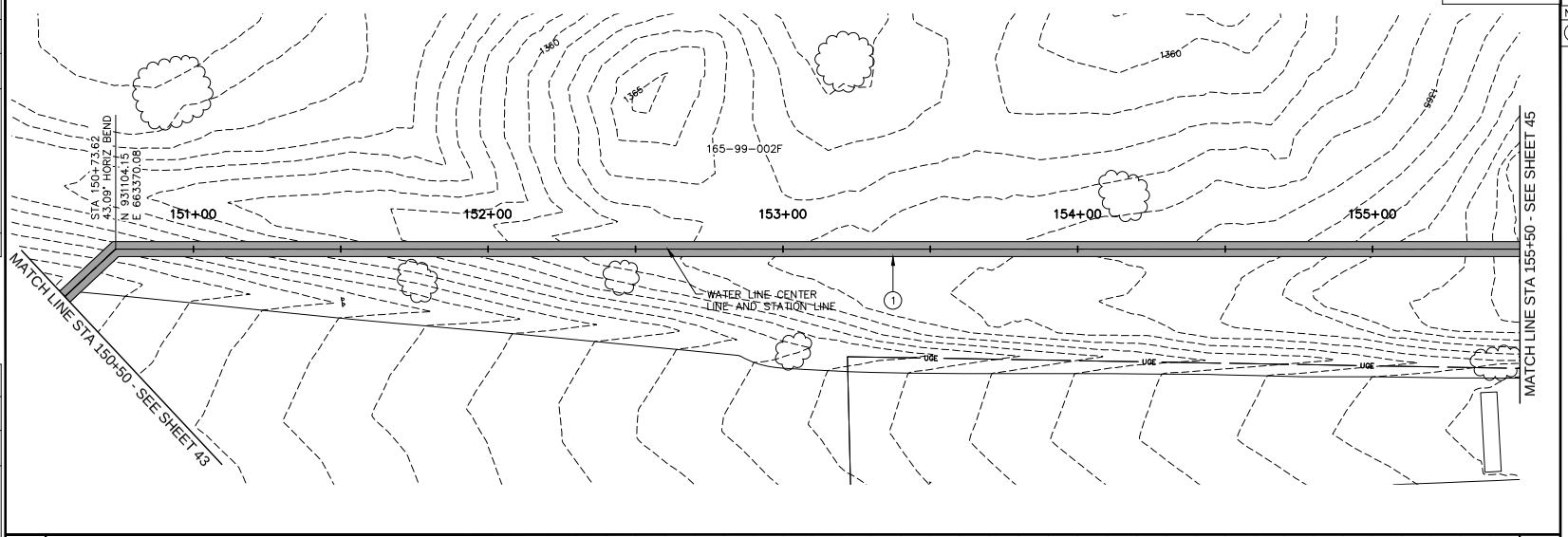

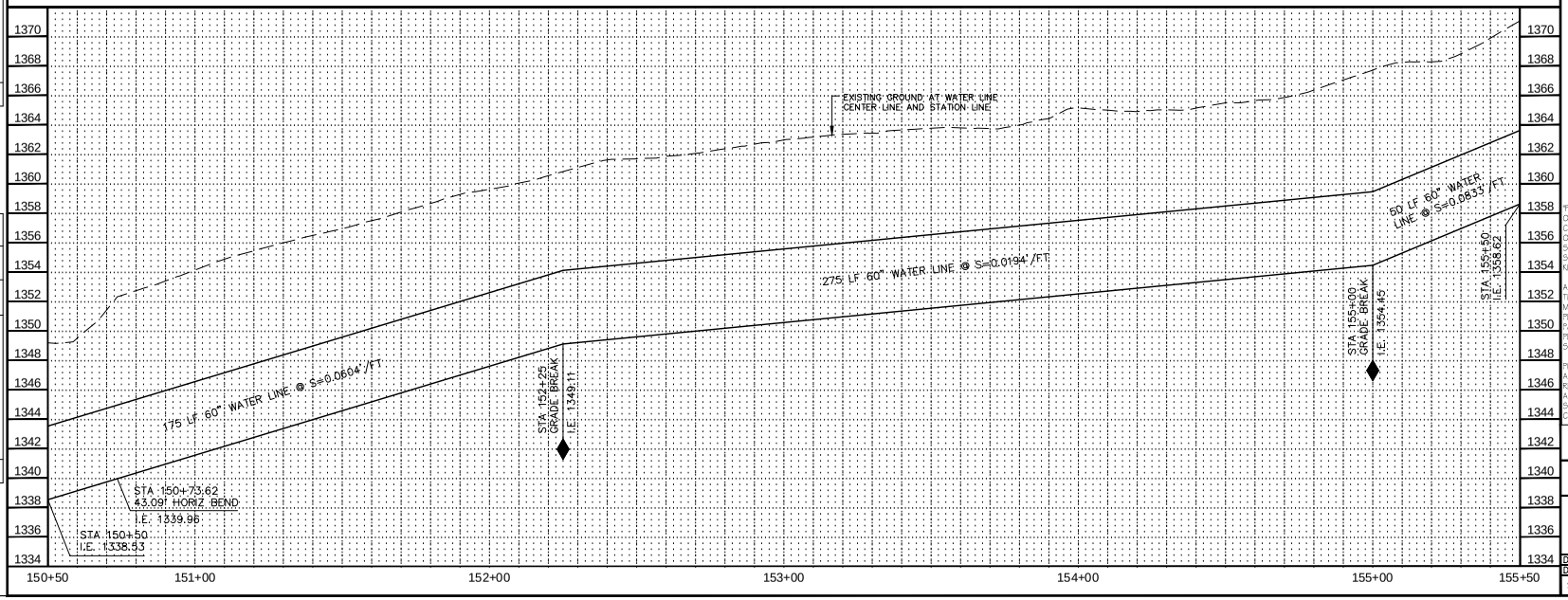

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			44	117

REVISION BY CITY OF PHOENIX

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%
PRELIMINARY
NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	45	117

PEC
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REVISION BY CITY OF PHOENIX

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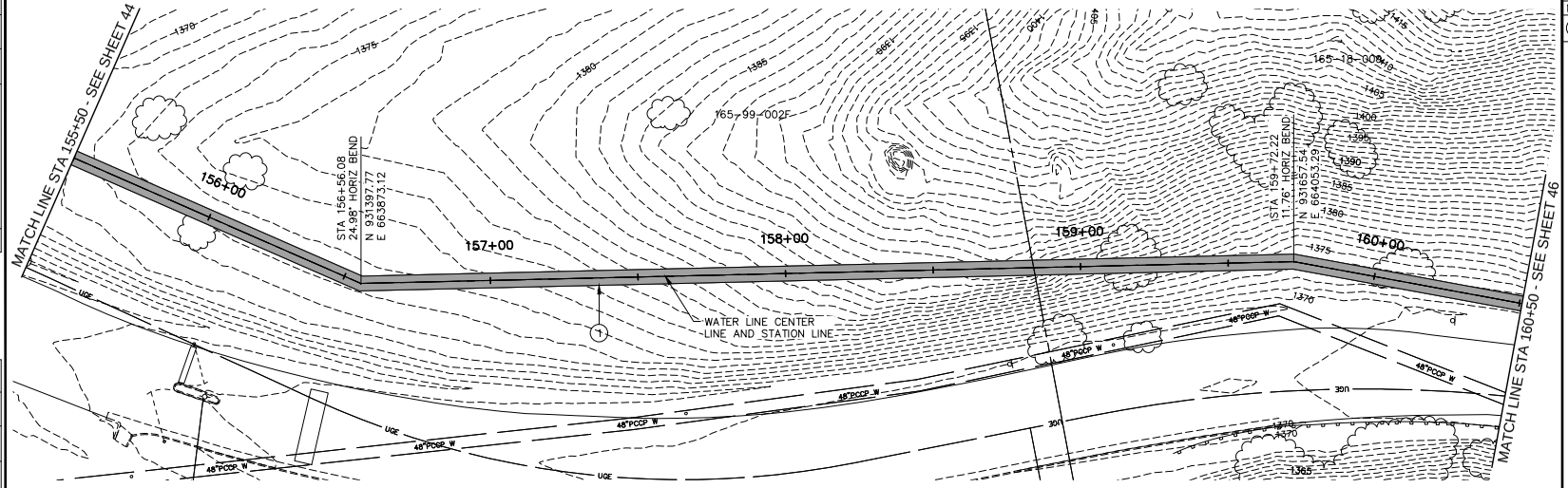
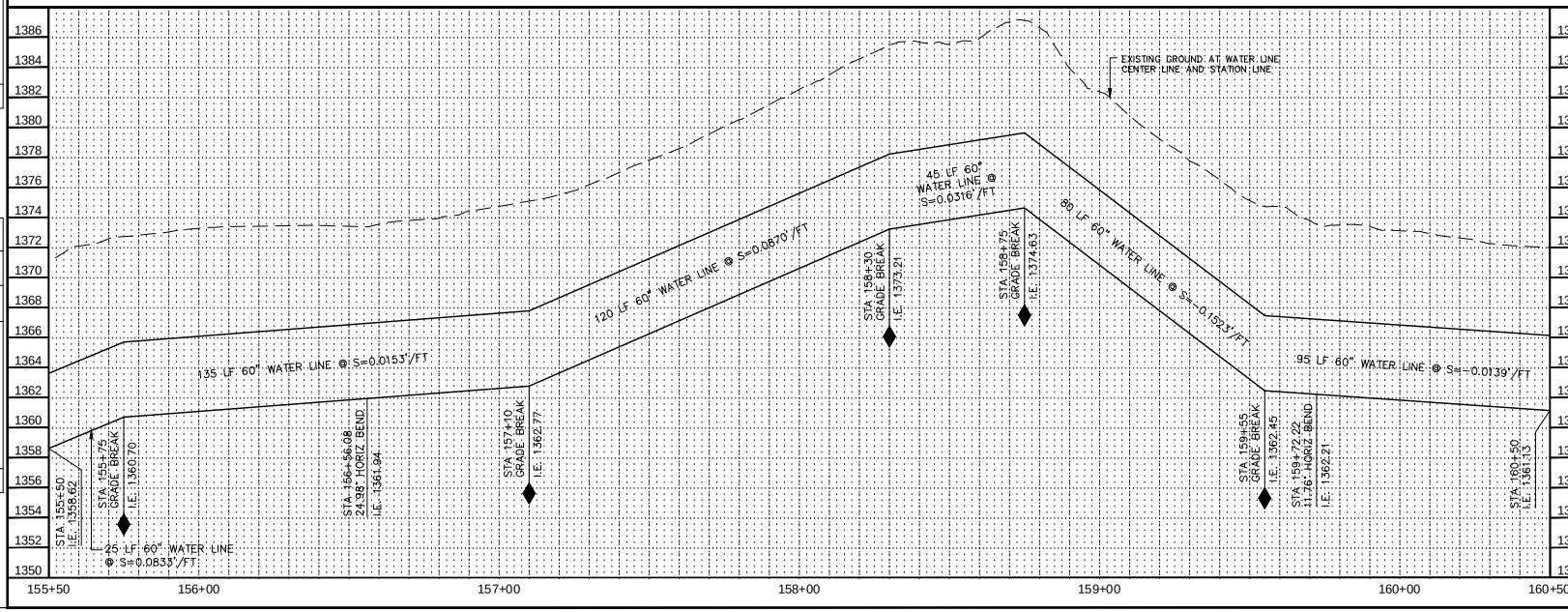


PHOENIX MOUNTAIN PRESERVE



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			45	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	46	117

30%

PRELIMINARY NOT FOR CONSTRUCTION

PEC
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2310 W. MISSION LANE, SUITE 4
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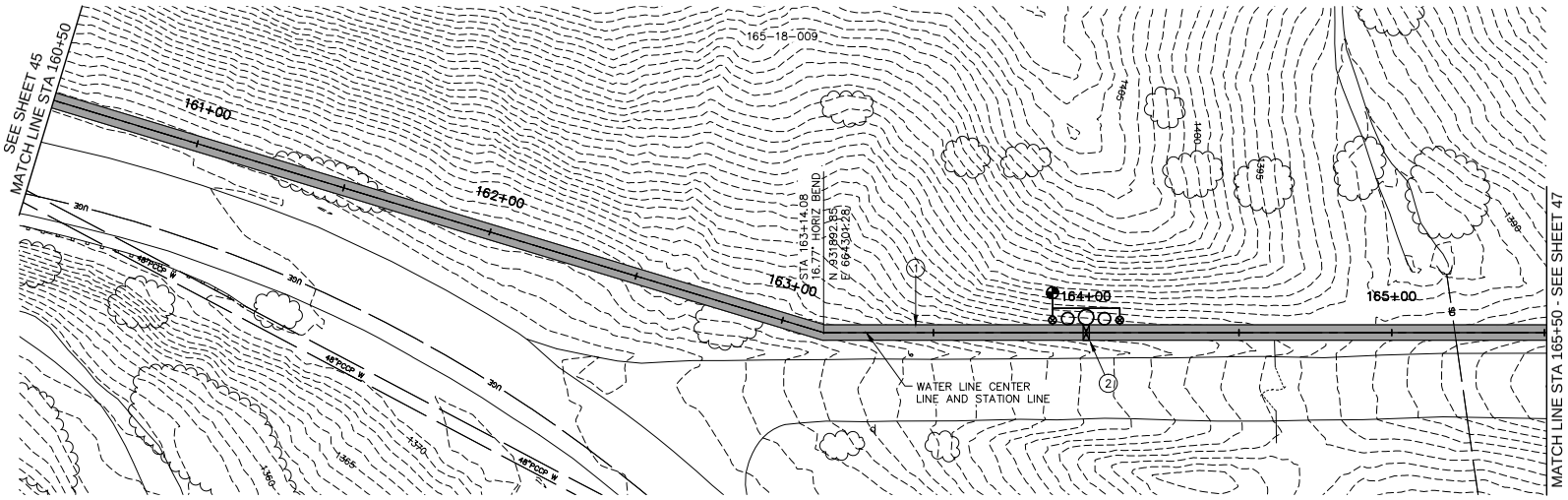
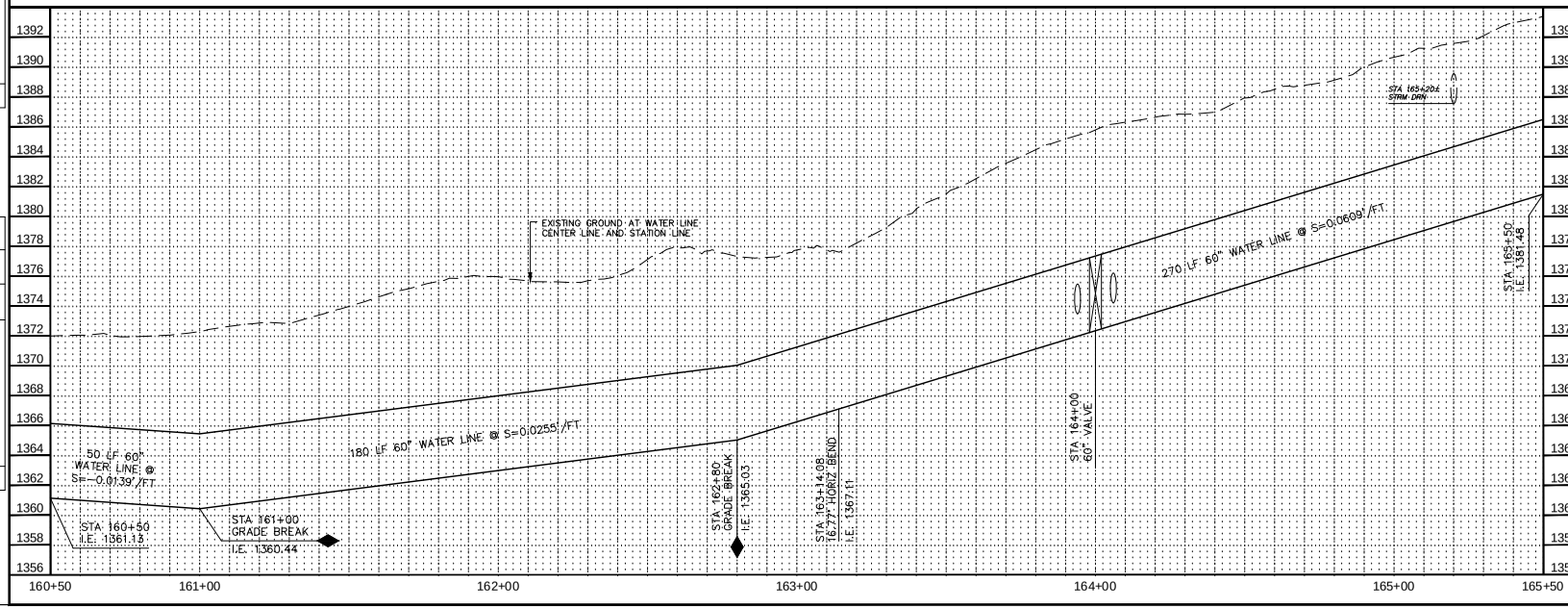
N

City of Phoenix



PHOENIX MOUNTAIN PRESERVE



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

Call 811 or click Arizona811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			46	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

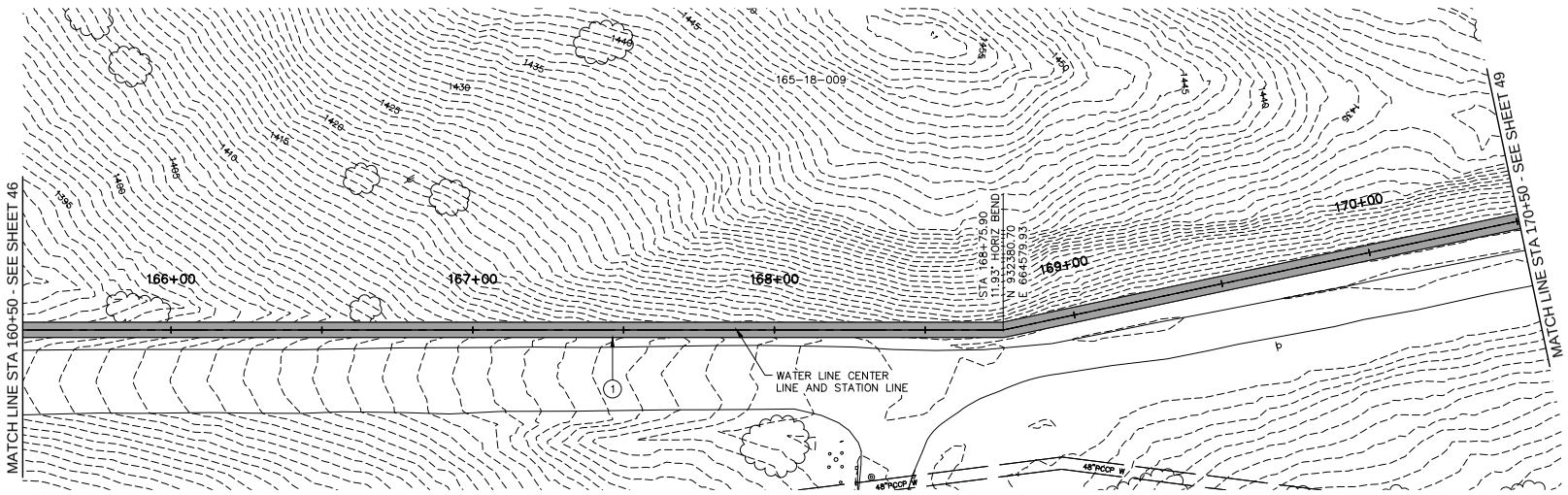
City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	47	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



PHOENIX MOUNTAIN PRESERVE

SEE SHEET 48 FOR PROFILE

165+50 166+00 167+00 168+00 169+00 170+00 170+50

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			47	117

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	48	117

PEC
PROJECT ENGINEERING CONSULTANTS
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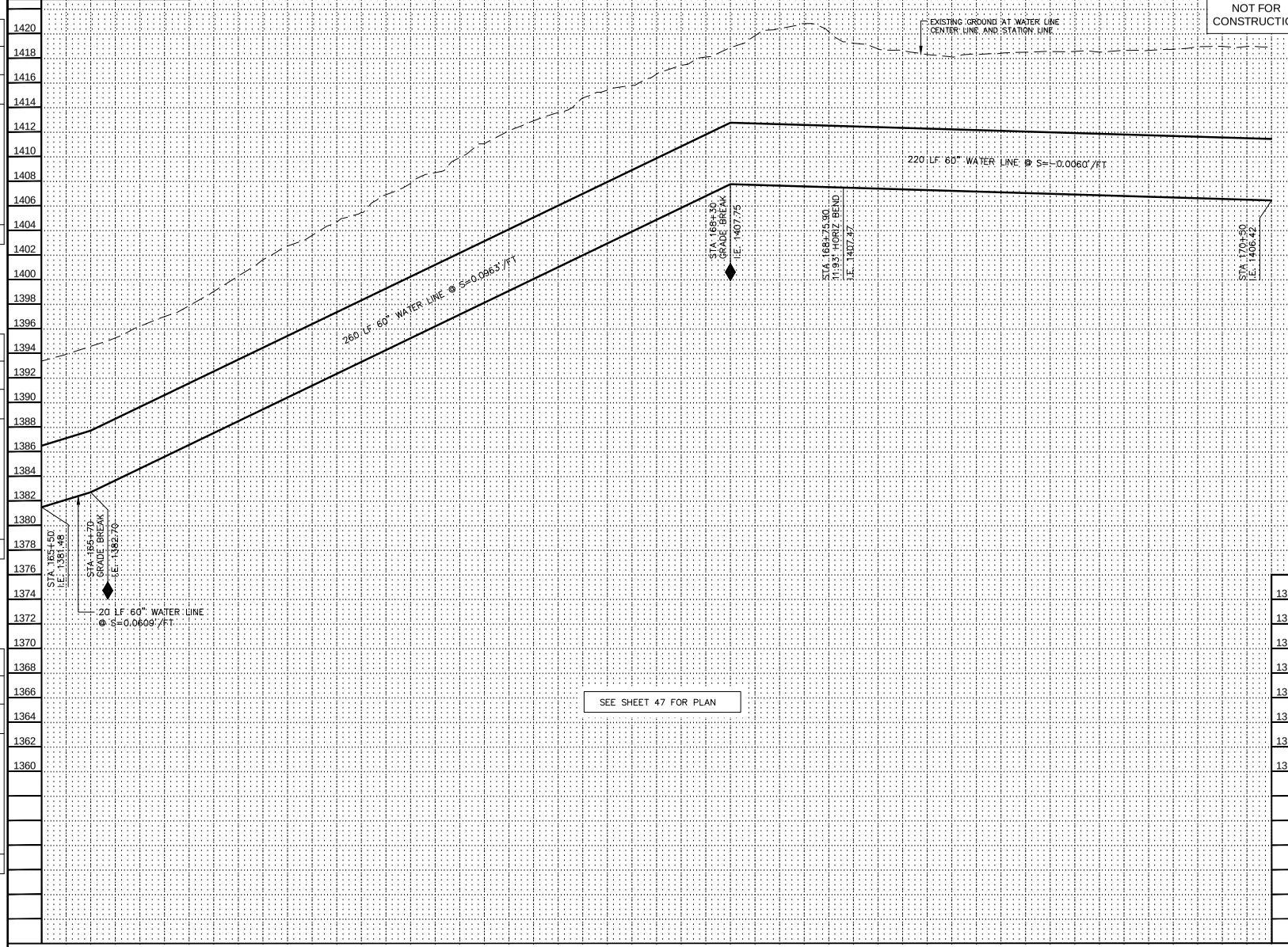

SEE SHEET 47 FOR PLAN

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			48	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

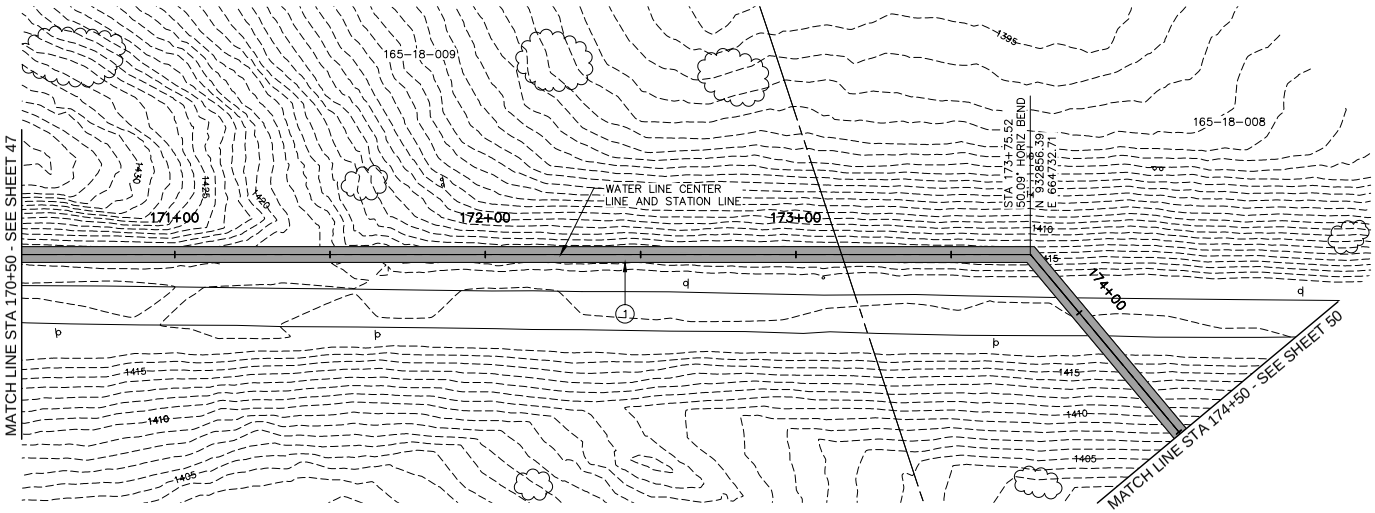
[redacted]

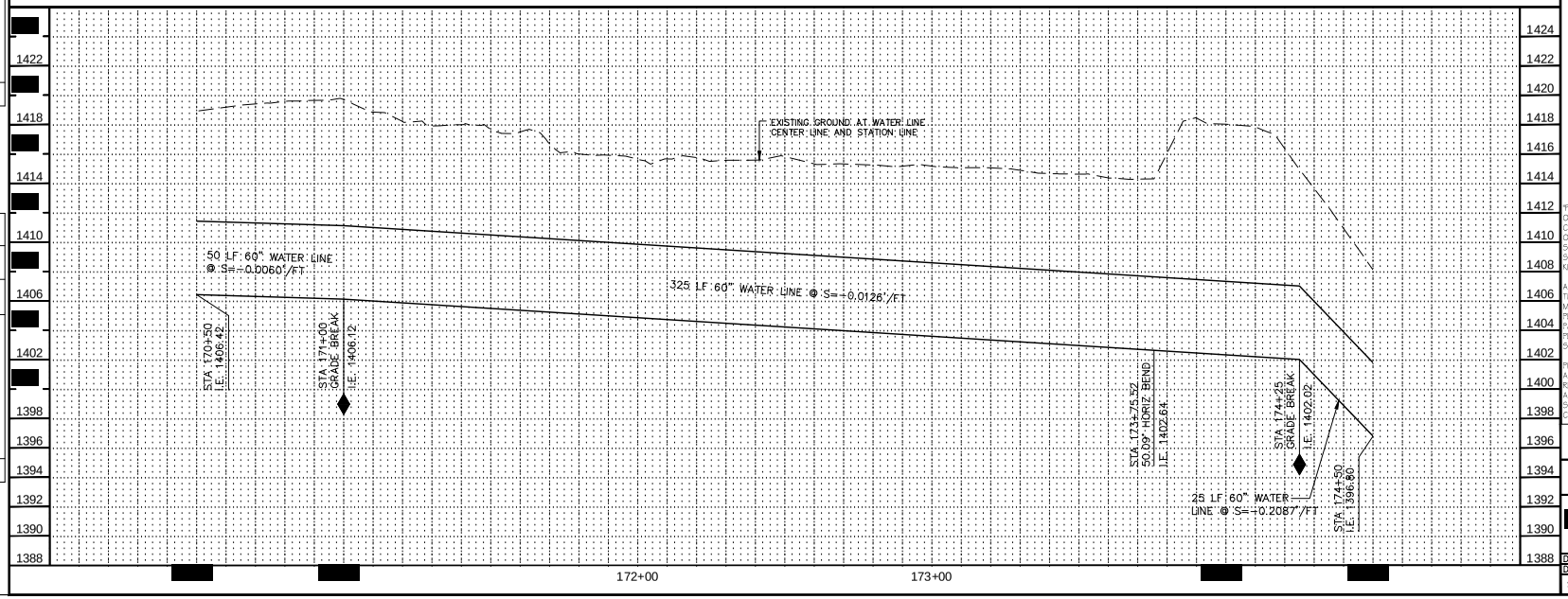
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	49	[redacted]

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	400





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ARIZONA811
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WATER PLAN AND PROFILE

[redacted]

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	49	[redacted]
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	50	117

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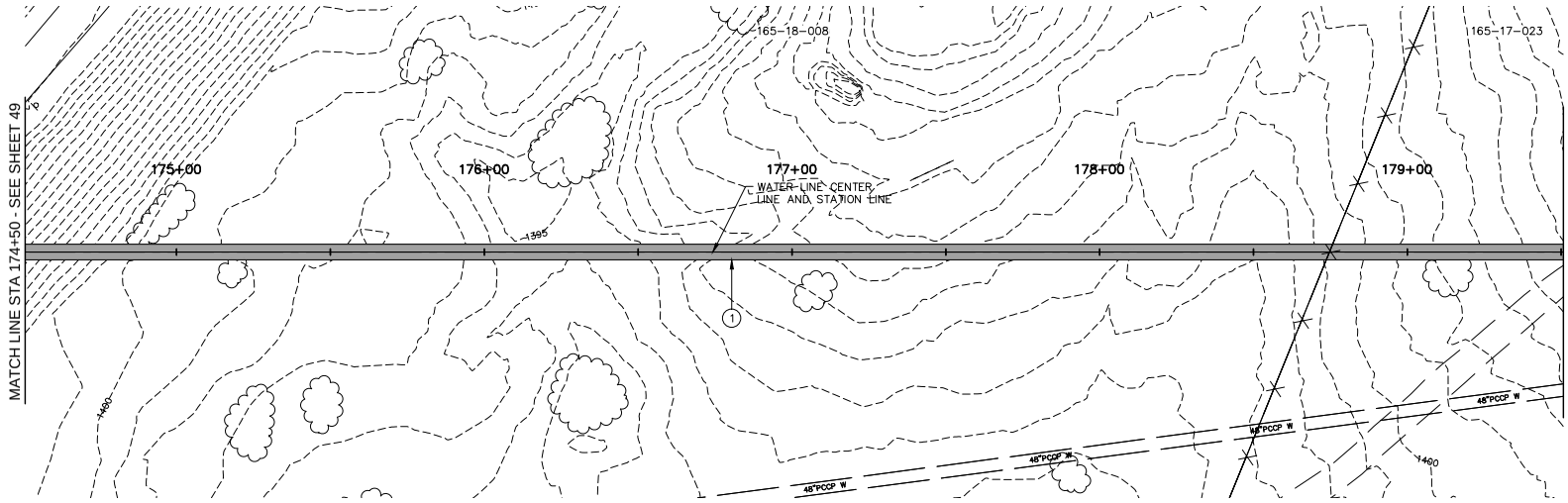
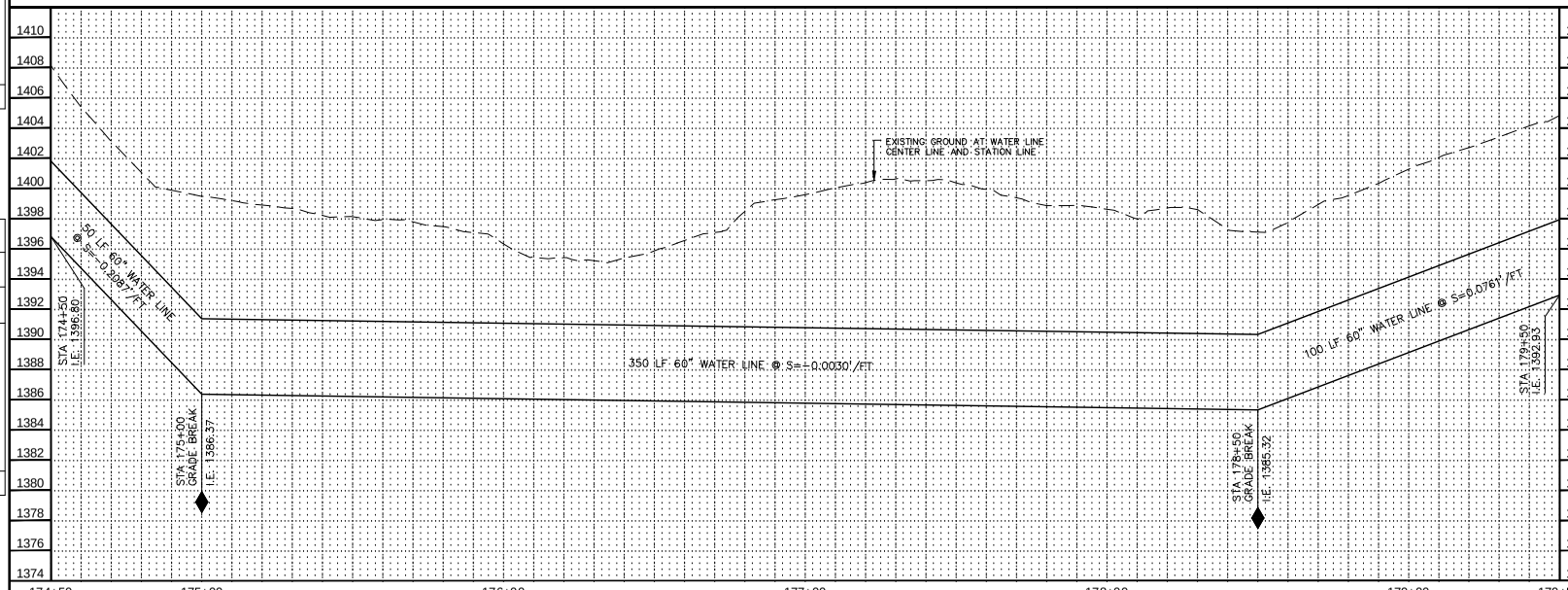
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			50	117

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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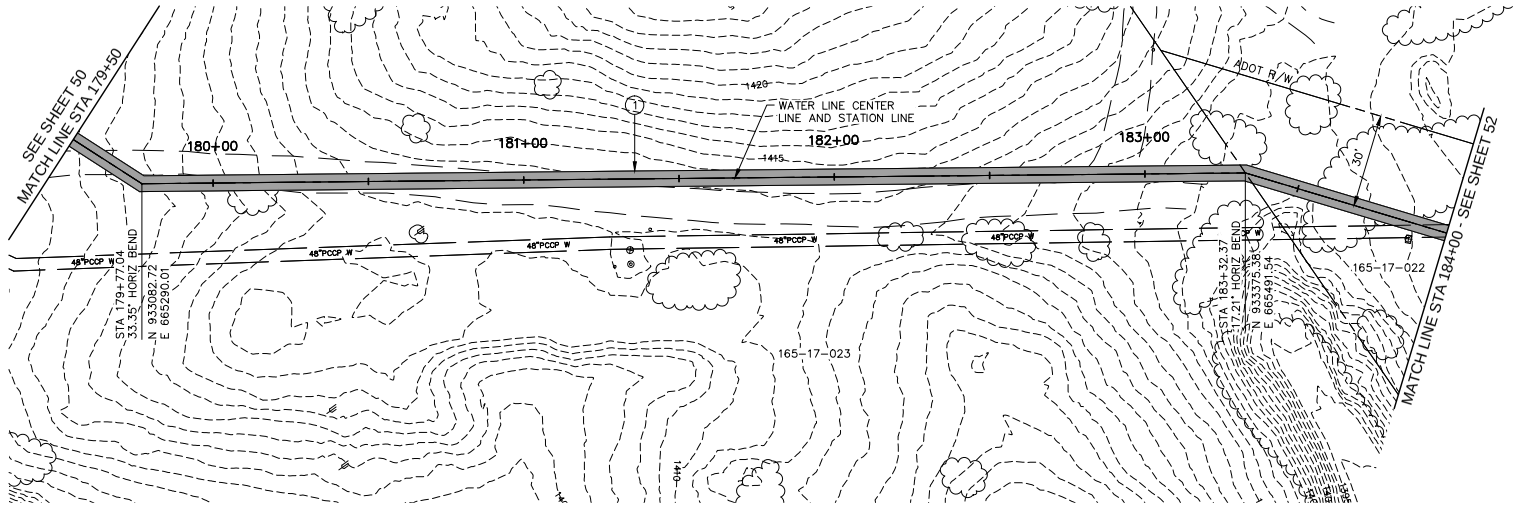
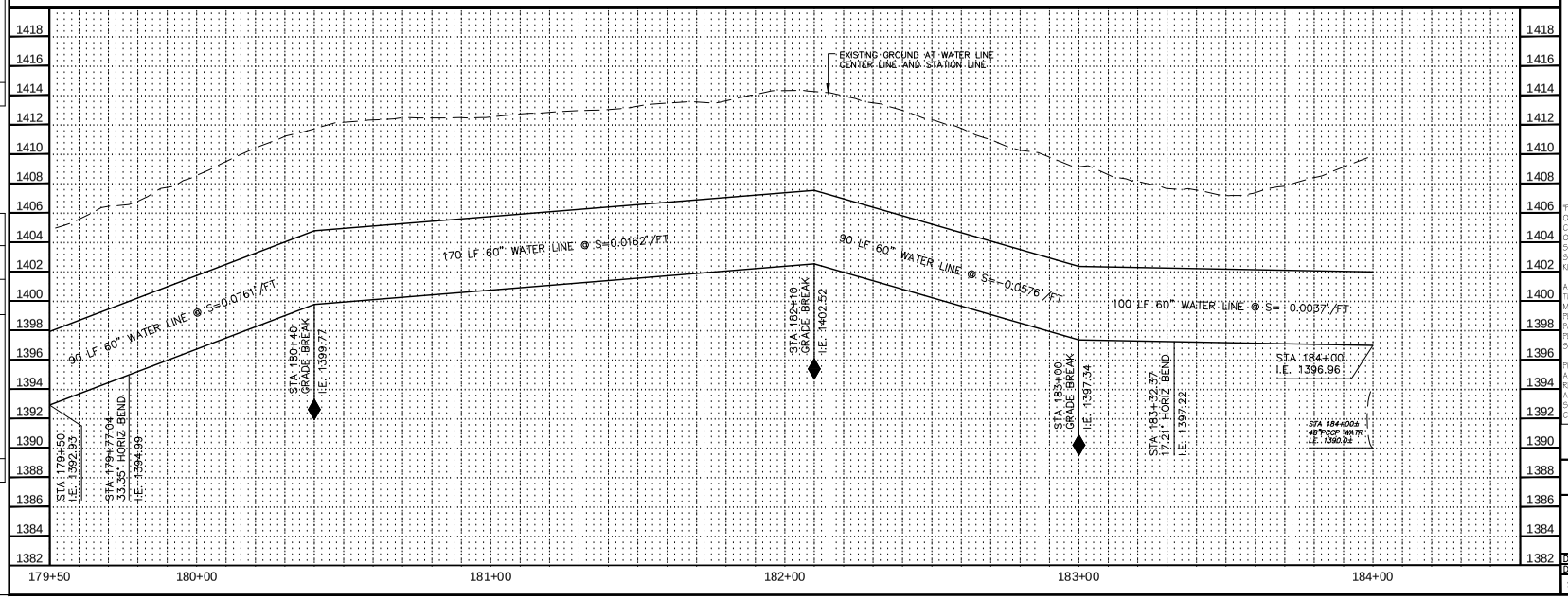


PHOENIX MOUNTAIN PRESERVE



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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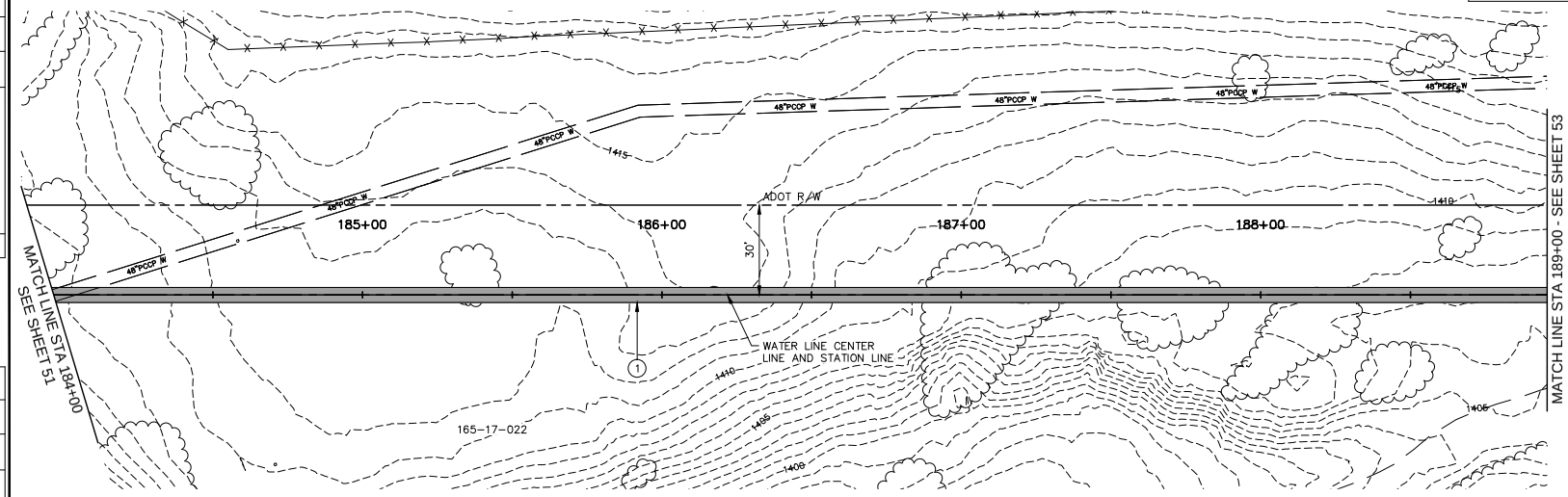
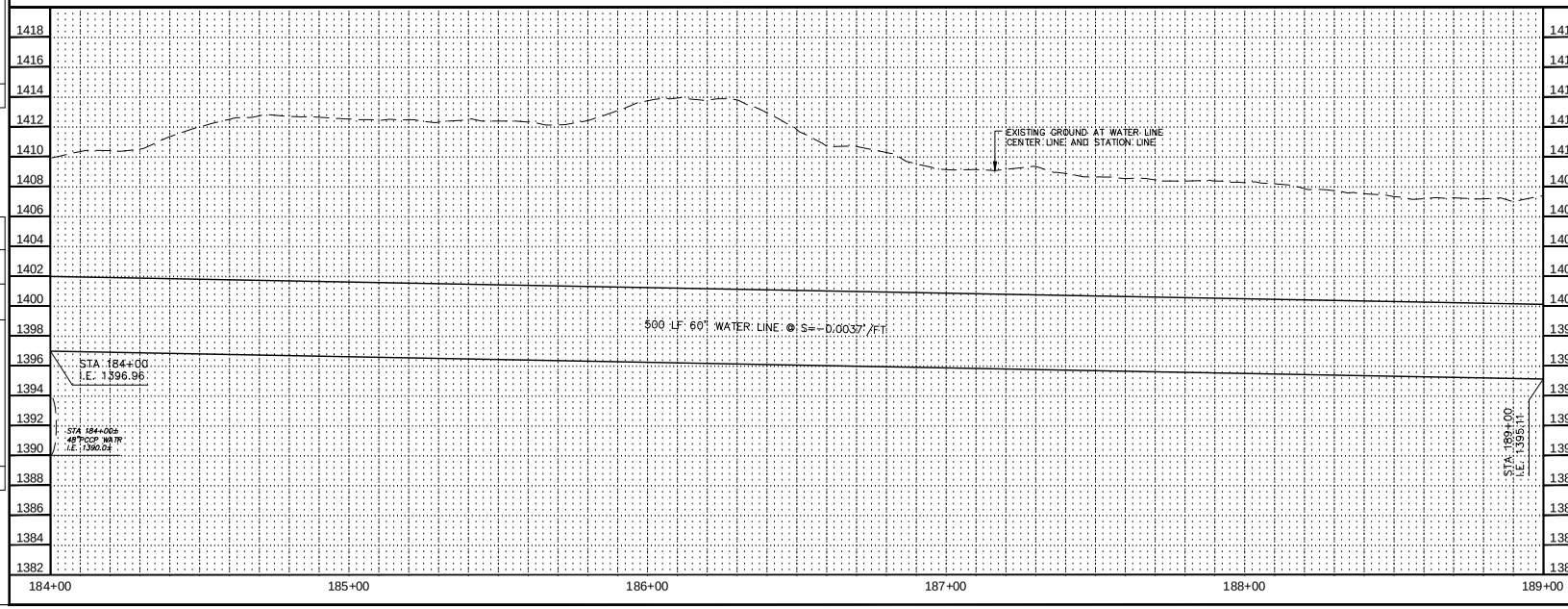


PHOENIX MOUNTAIN PRESERVE



CONSTRUCTION NOTES

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

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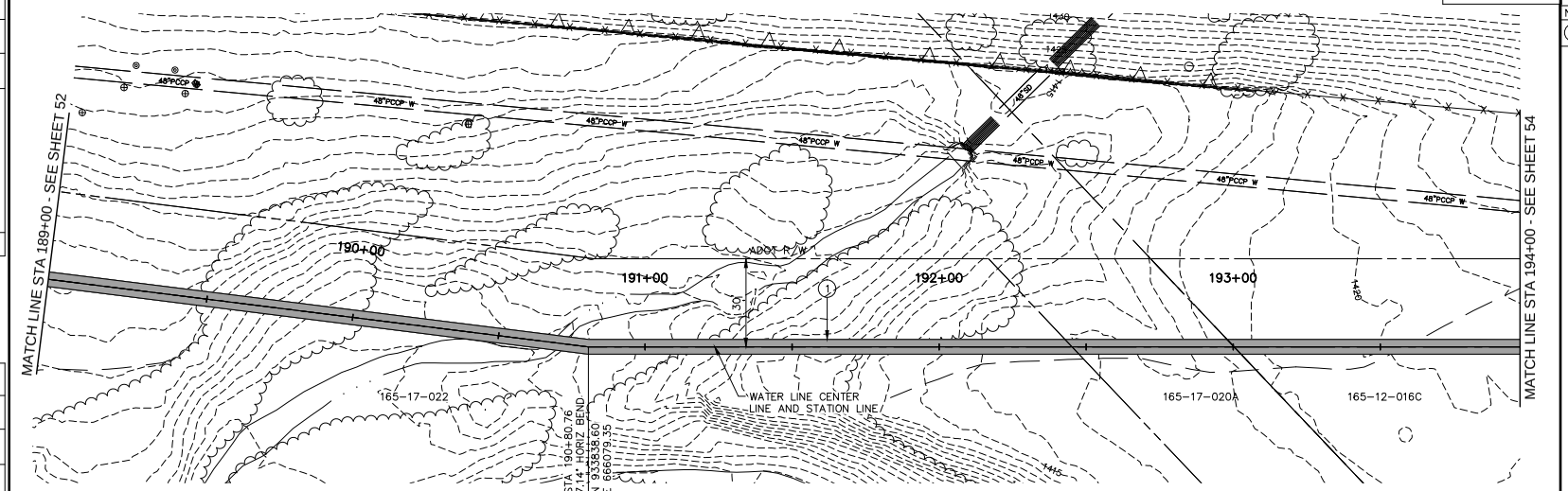
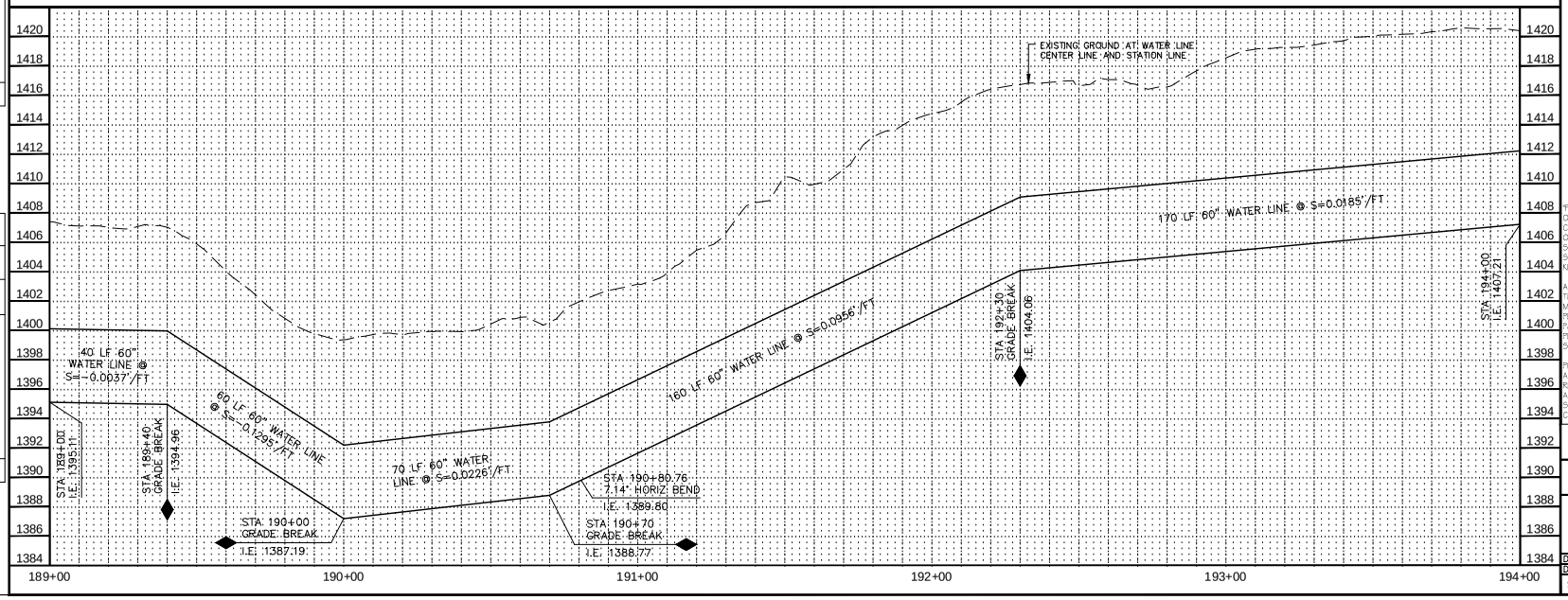
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED FOR THE CONSTRUCTION OF THE PUBLIC WORKS FACILITIES SHOWN HEREON. THE PROJECT OWNER, AND THE OWNER'S LENDERS, CONSULTANTS, CONTRACTORS AND SUBCONTRACTORS ARE PROHIBITED FROM DISCLOSING THE PLANS AND SPECIFICATIONS TO ANY PERSONS OTHER THAN THOSE WHO HAVE A NEED TO KNOW THE INFORMATION FOR THE PURPOSES OF THE PROJECT"

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18	53	117
SCALE: HORIZ 1"=20' VERT 1"= 4'				

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

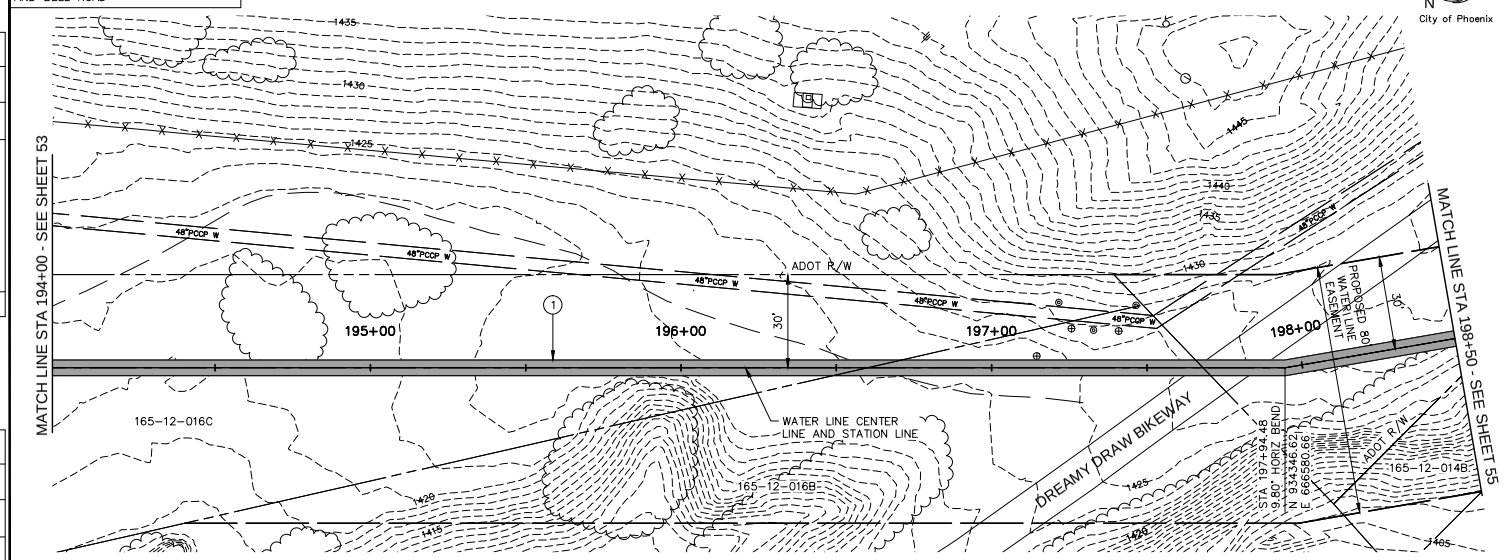
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

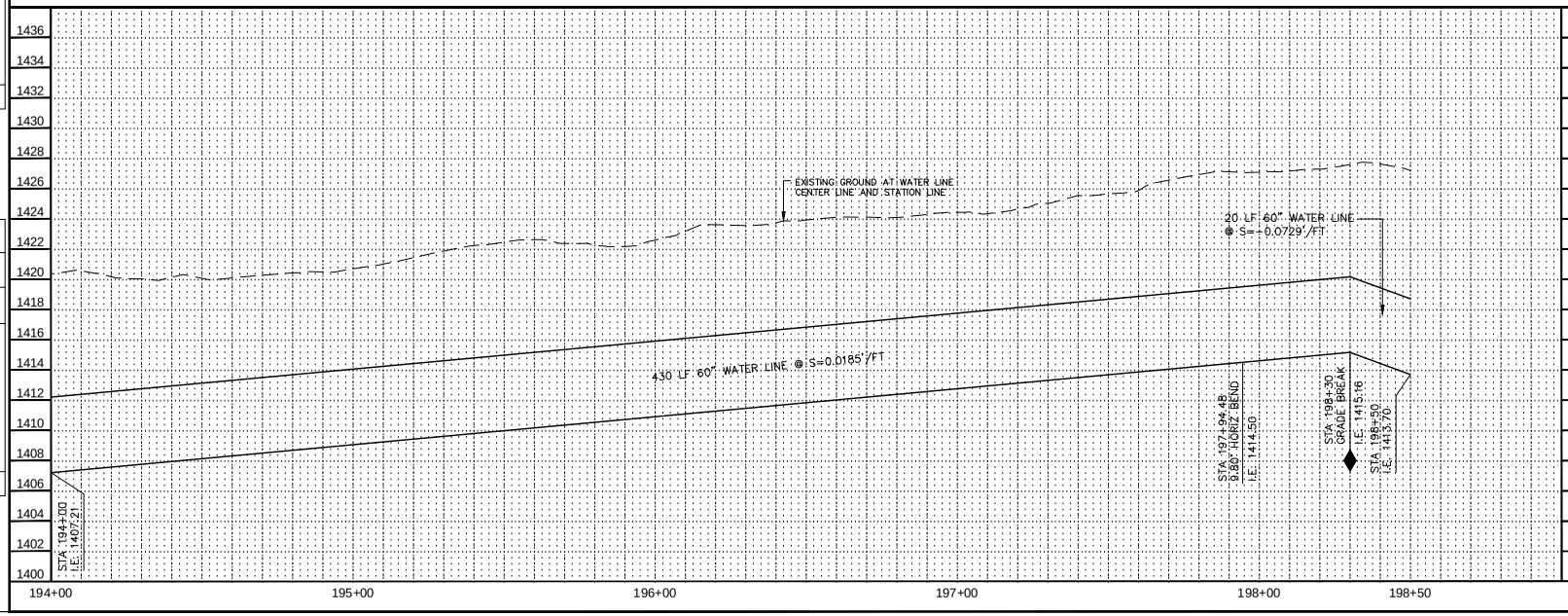
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



PHOENIX MOUNTAIN PRESERVE



30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	54	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			54	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

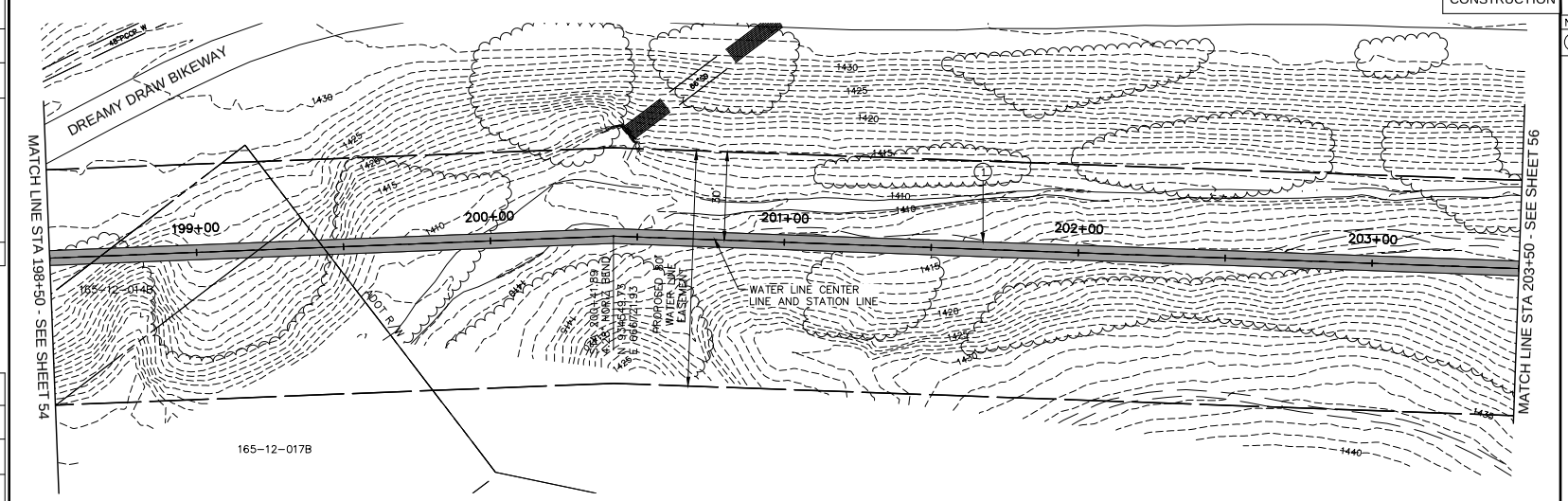
30%
PRELIMINARY
NOT FOR
CONSTRUCTION

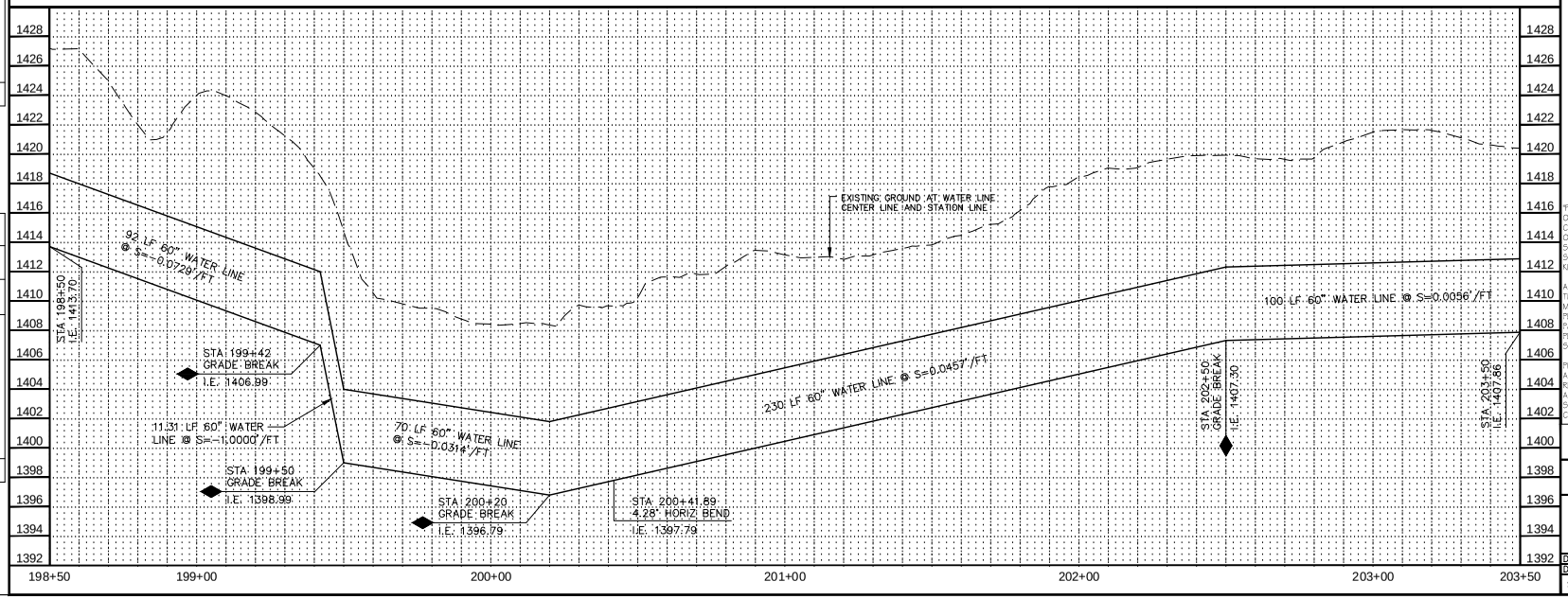
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	55	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	504





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 2'			55	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	56	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
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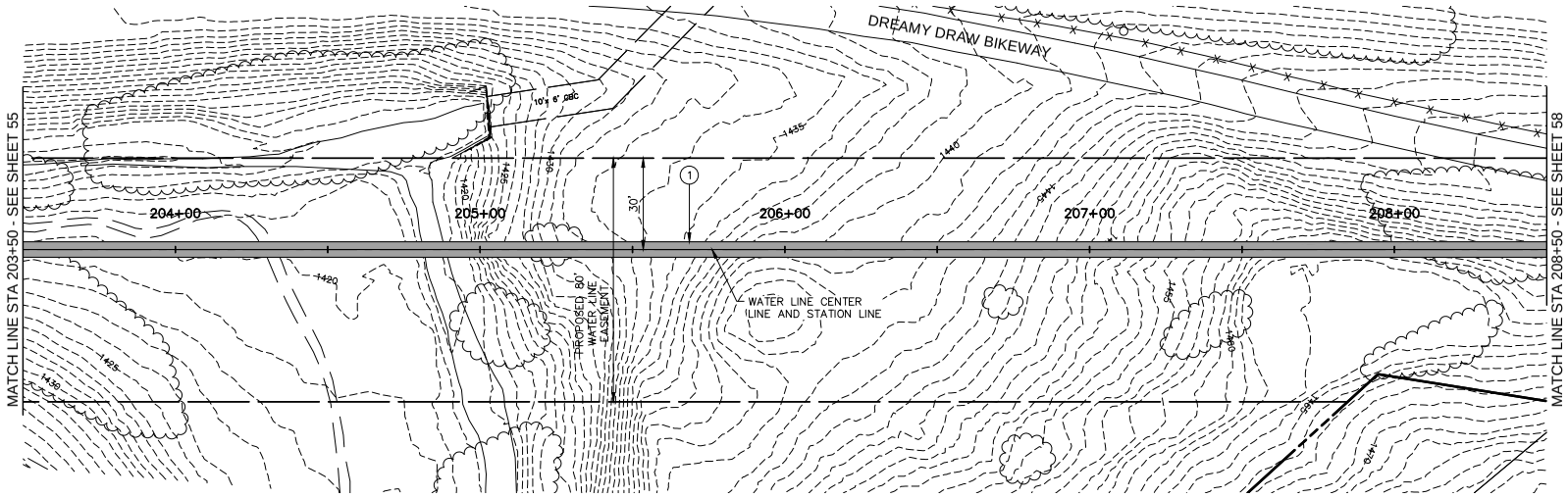

PIESTEWA FREEWAY (SR51) RIGHT OF WAY

SEE SHEET 57 FOR PROFILE

203+50 204+00 205+00 206+00 207+00 208+00 208+50

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	503

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ARIZONA 811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 2'			56	117

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	57	117

PEC
PROJECT ENGINEERING CONSULTANTS
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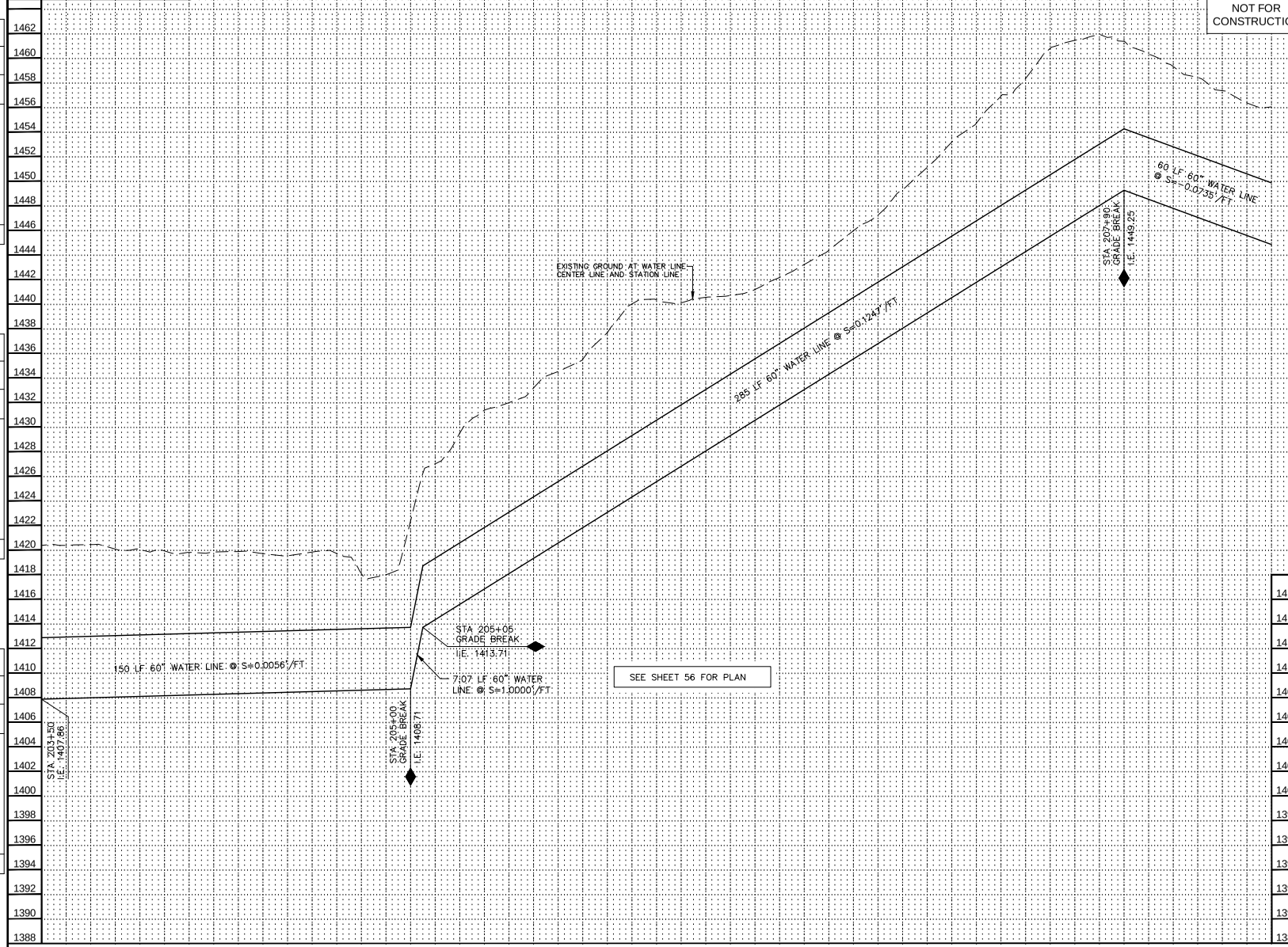
Fax: (602) 906-3080



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NO.	DESCRIPTION	REV BY	CKD BY	DATE

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 2'			57	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

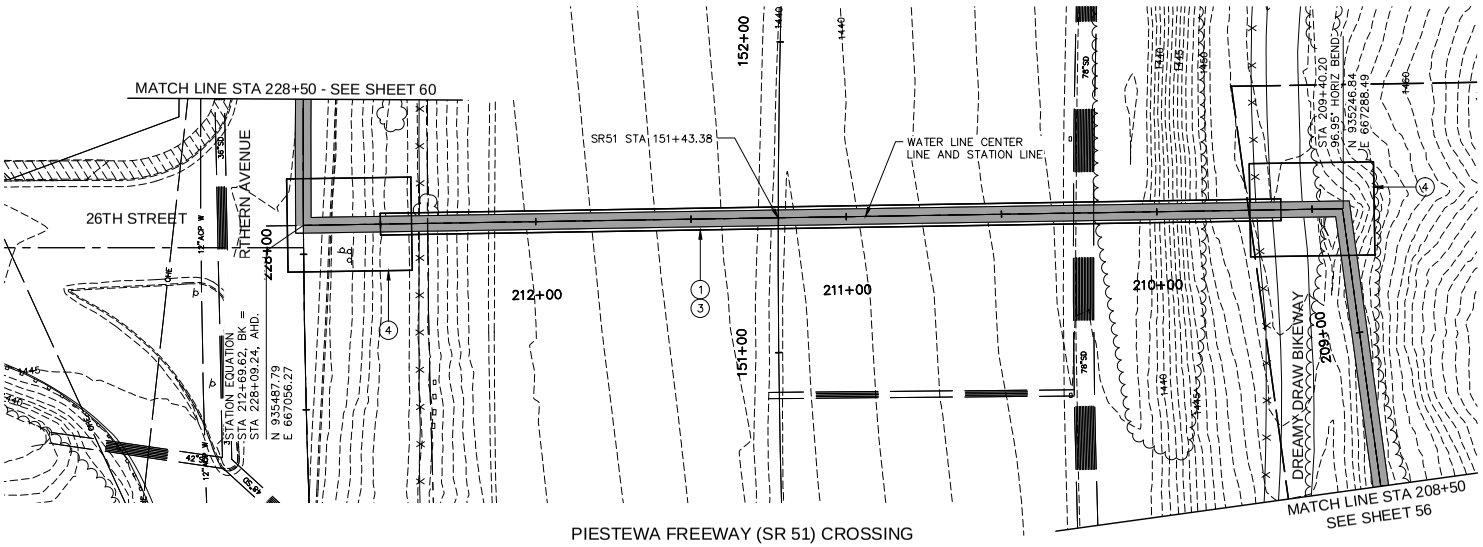
24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	58	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



SEE SHEET 59 FOR PROFILE

228+50 | 212+74.84 228+09.35 | 212+00 | 211+00 | 210+00 | 209+00 | 208+50

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	480
3	INSTALL 84" STEEL CASING	LF	290
4	JACKING / RECEIVING PIT		

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ARIZONA811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			58	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	58	117

PEC
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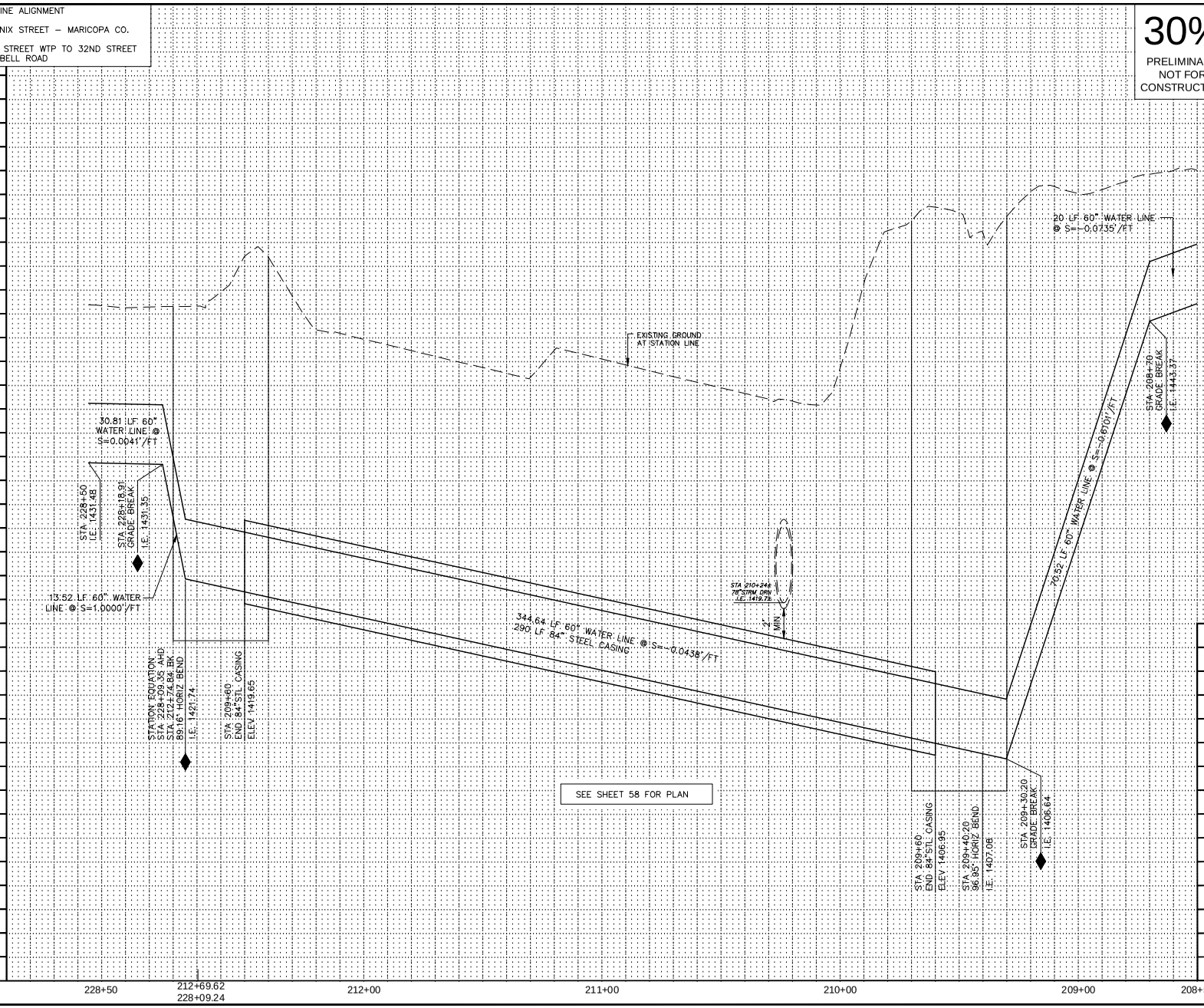

SEE SHEET 58 FOR PLAN

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			58	117

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	60	117

PEC
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2310 W. MISSION LANE, SUITE 4
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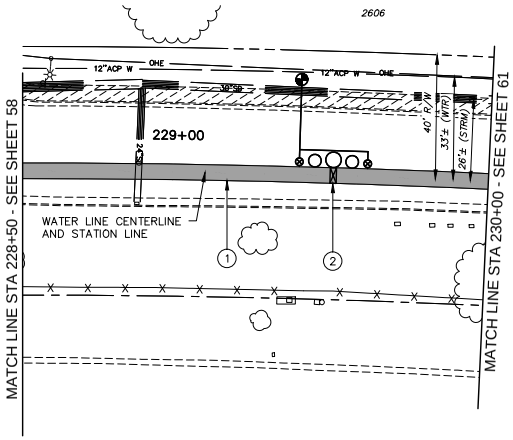
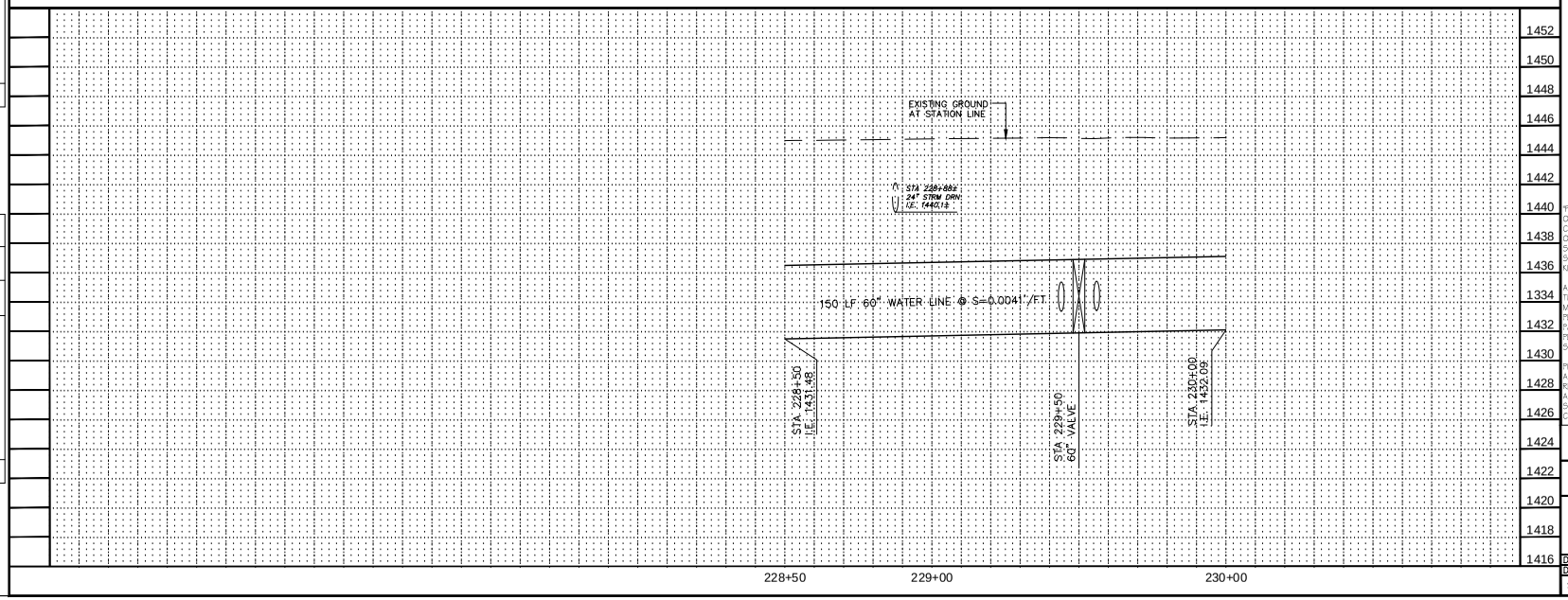
Fax: (602) 906-3080



NORTHERN AVENUE



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	150
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

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ARIZONA811
Call 811 or click ArizonaBlue811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			60	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

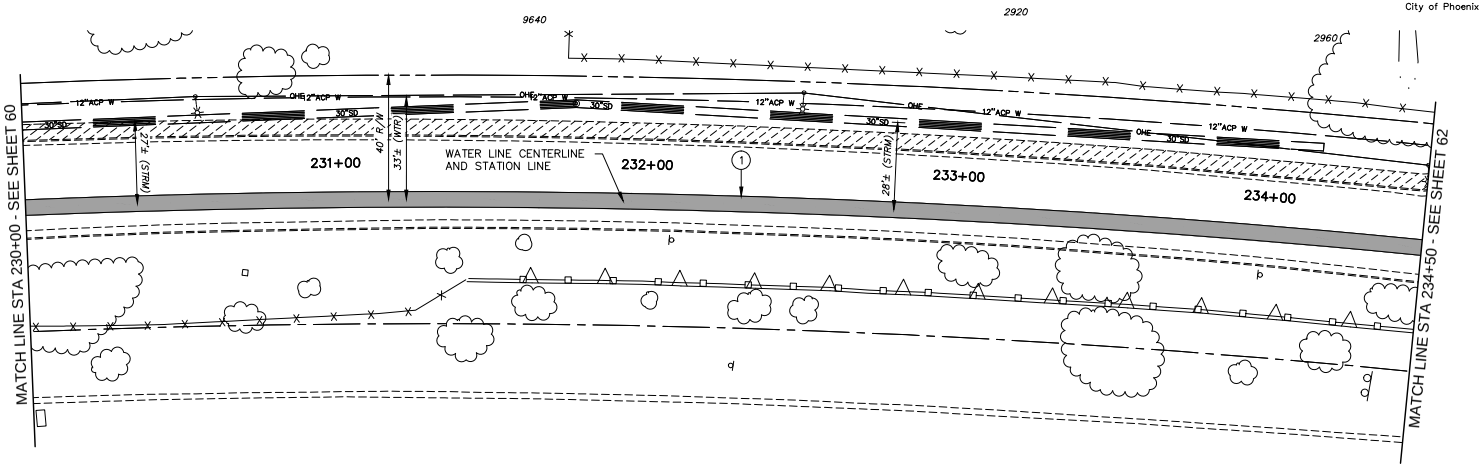
24TH STREET WTP TO 32ND STREET AND BELL ROAD

30%

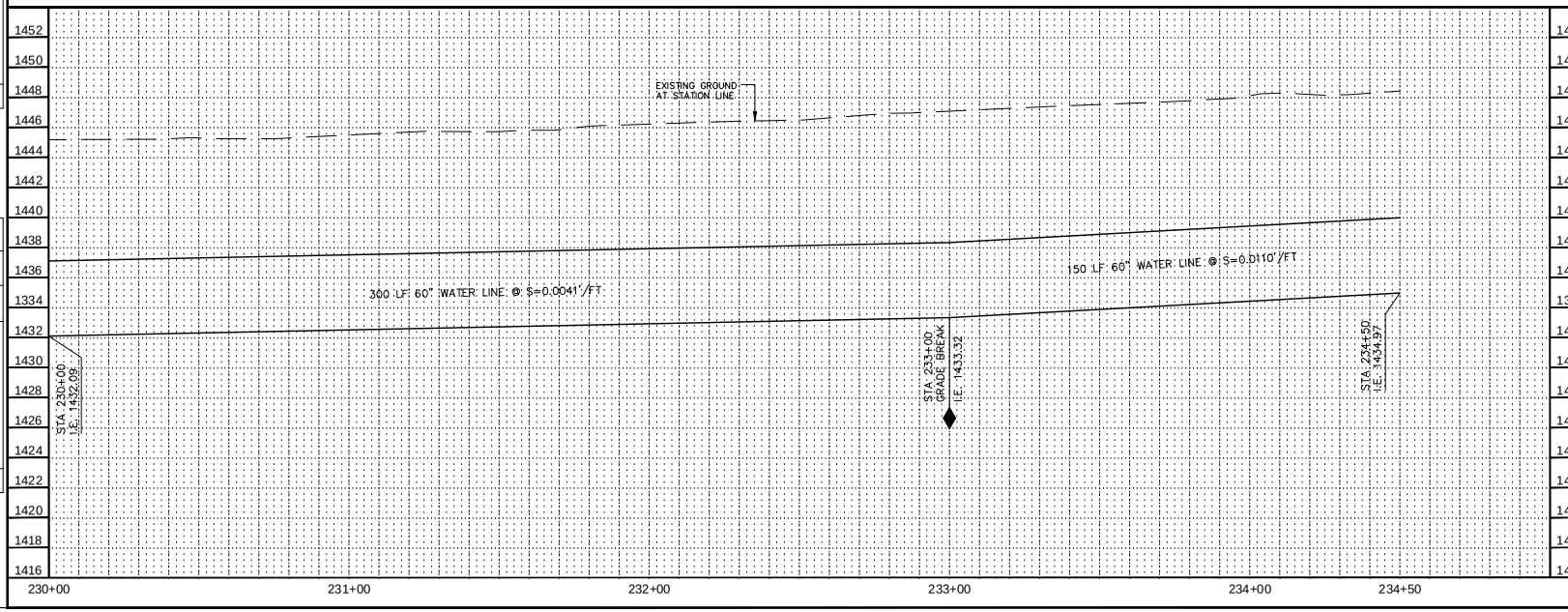
PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	61	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



NORTHERN AVENUE



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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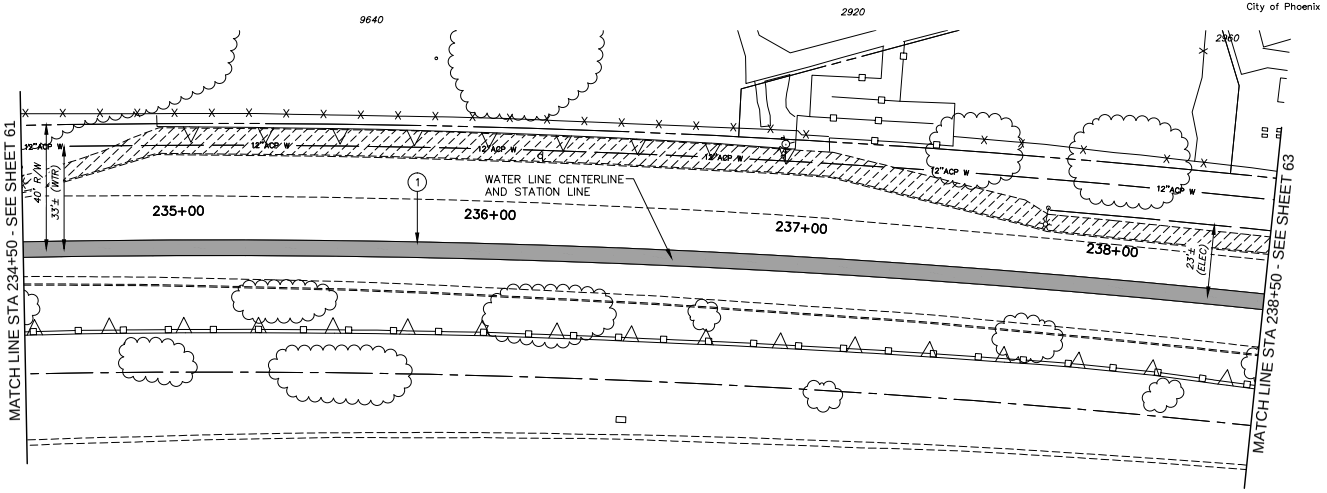
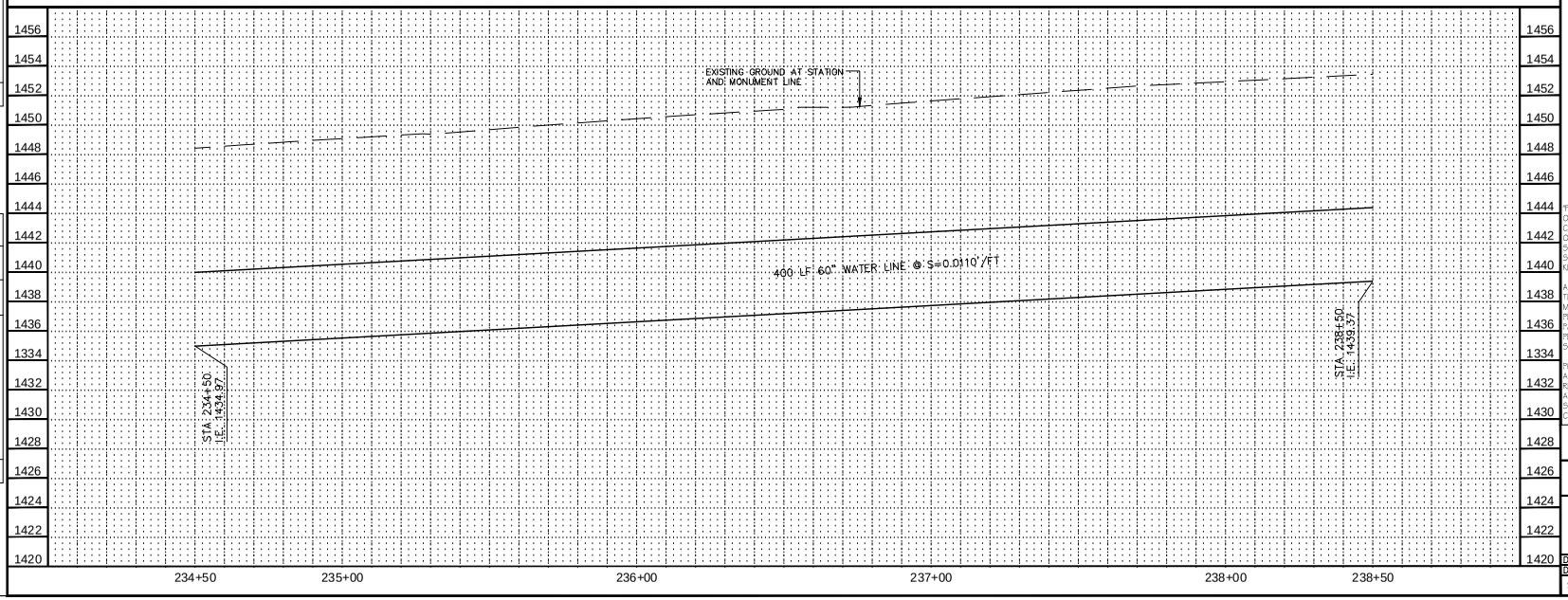
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



NORTHERN AVENUE



30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	62	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	400

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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30%

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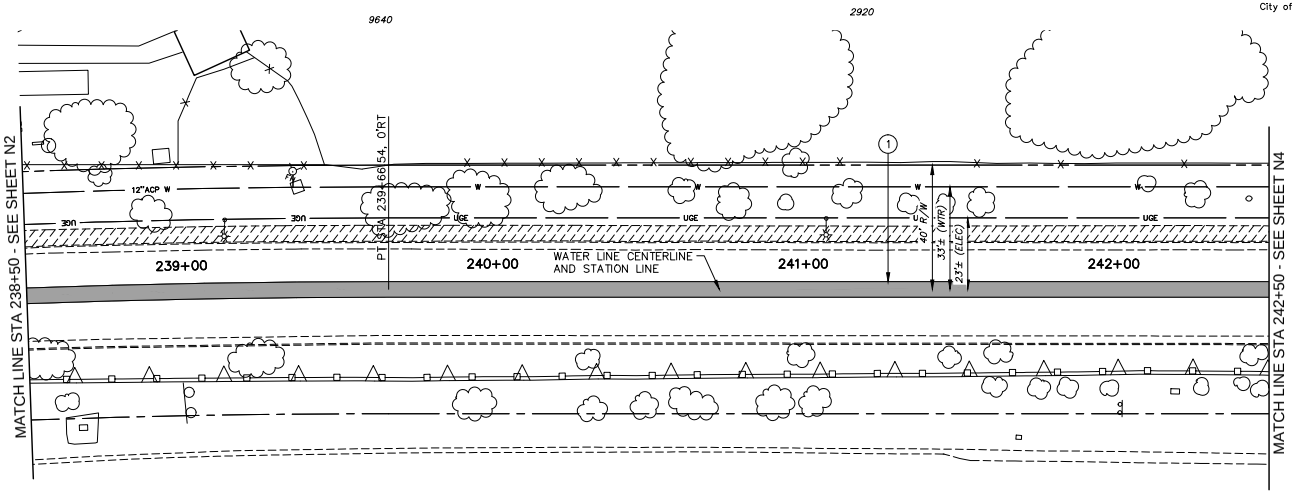
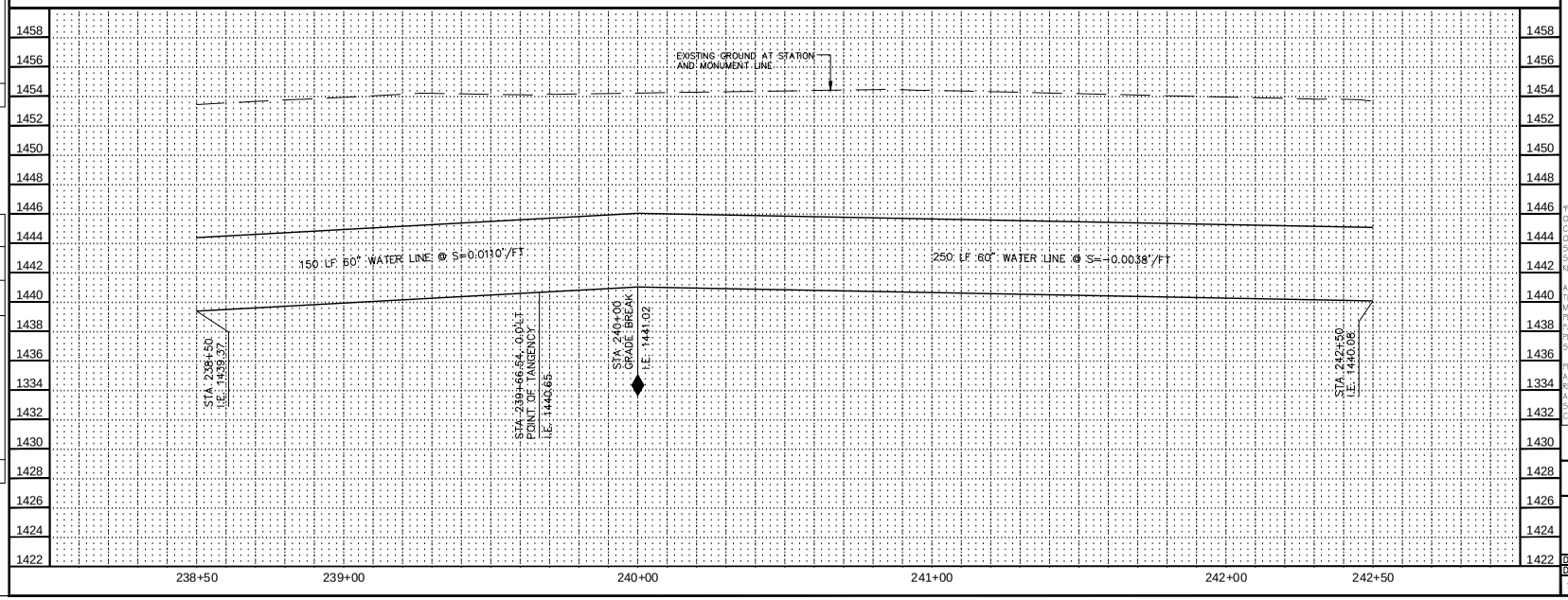


NORTHERN AVENUE



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	400

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
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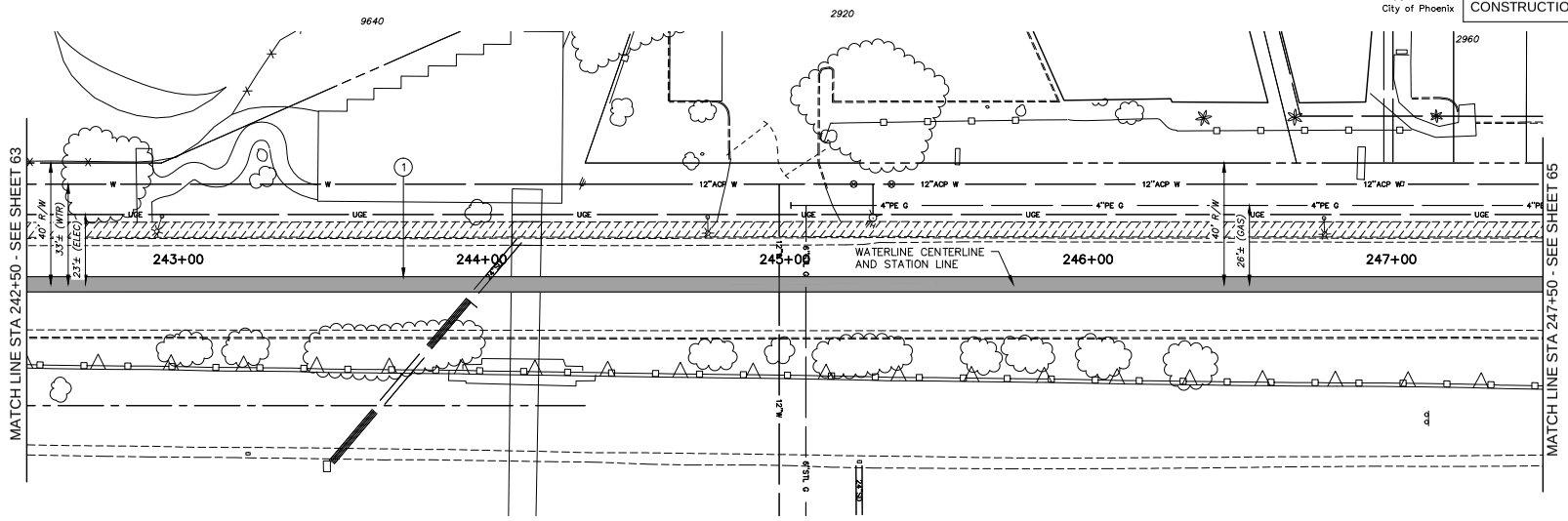
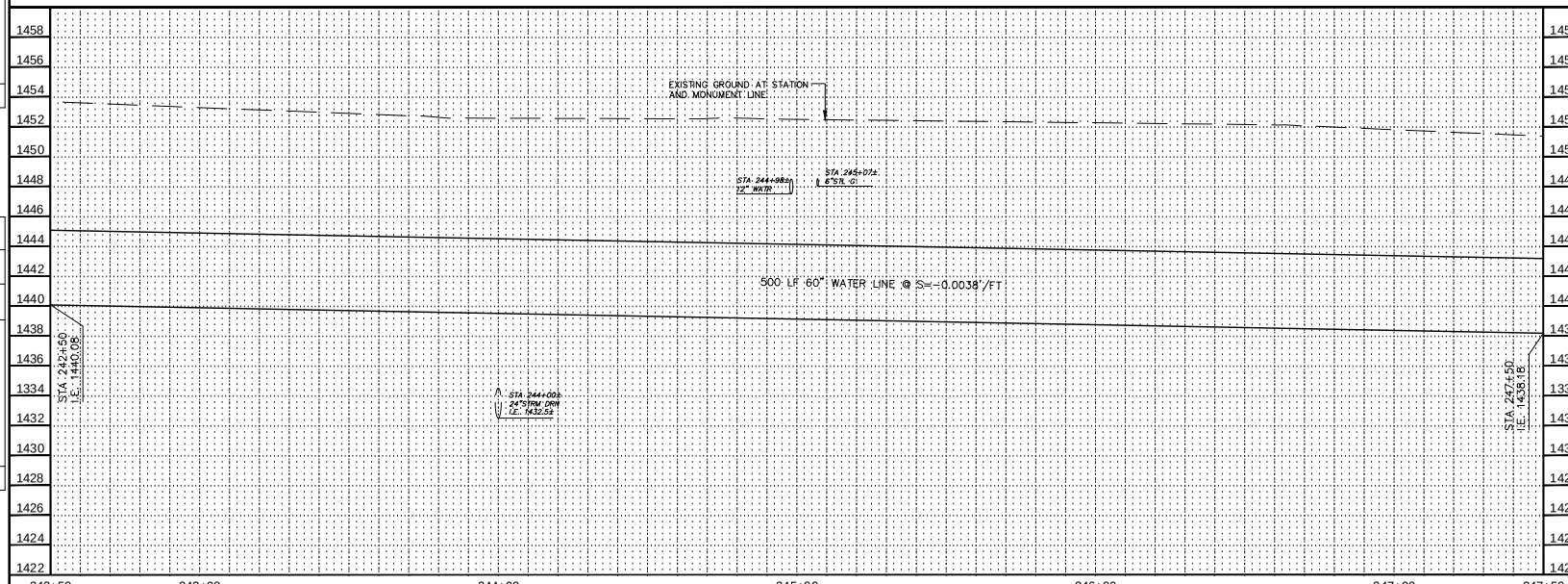
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

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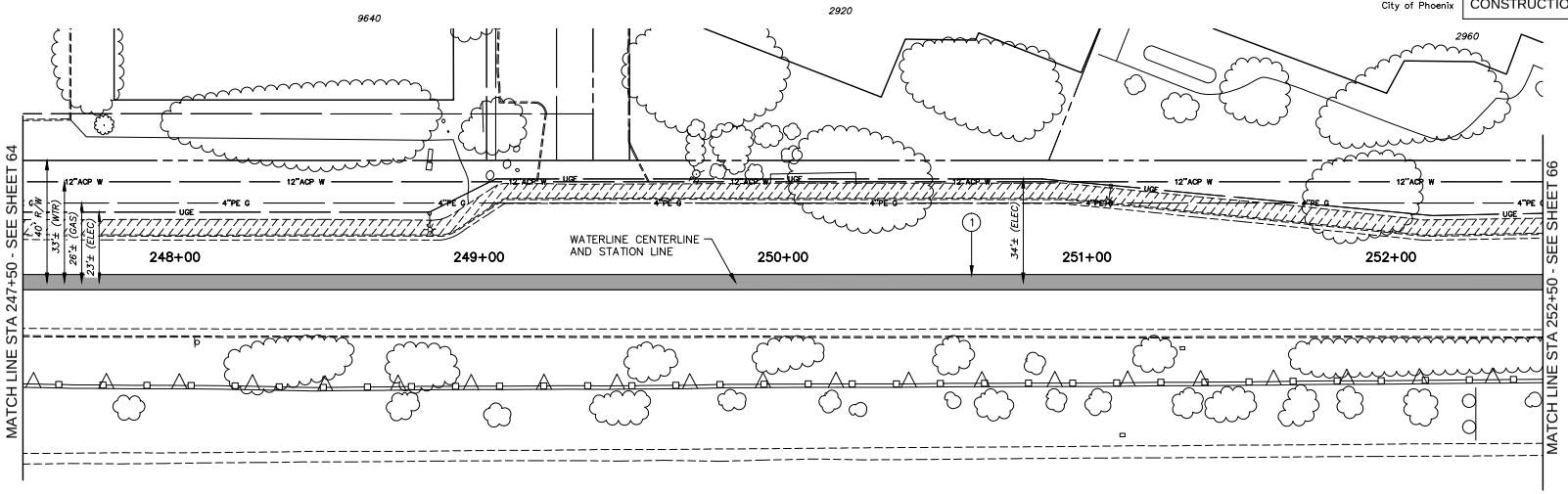

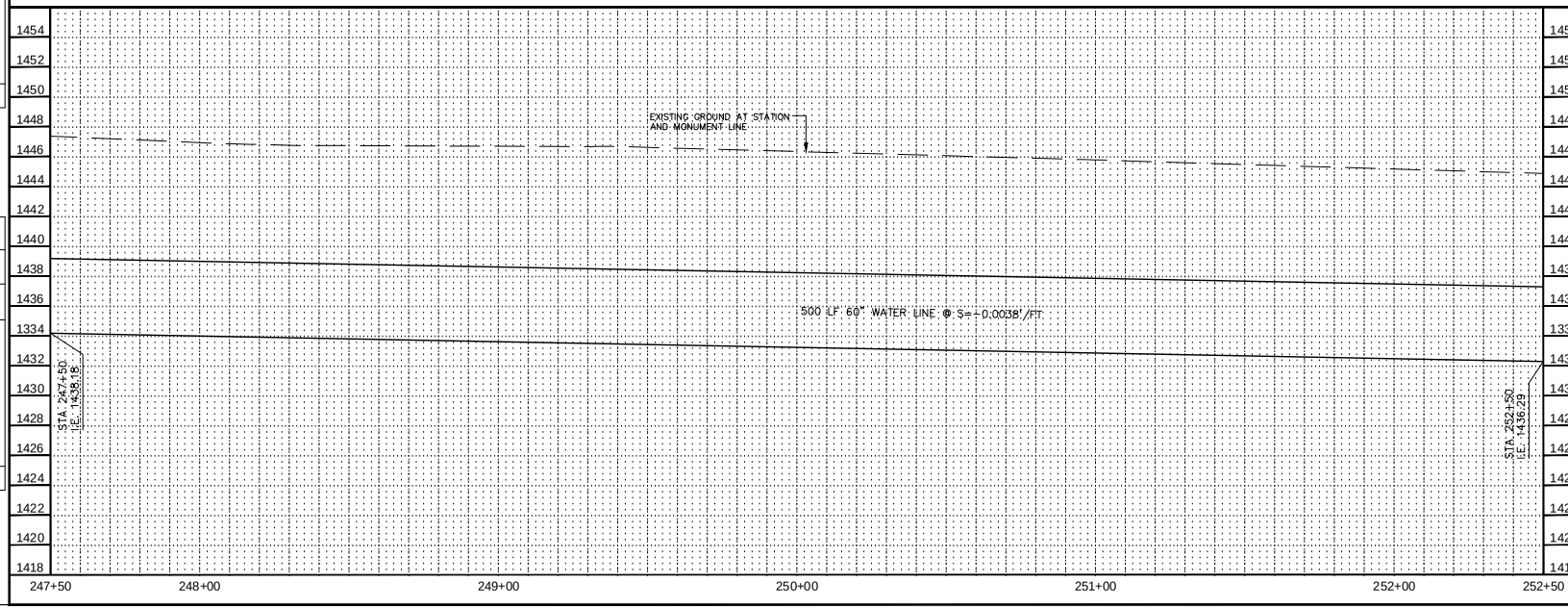

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
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ARIZONA 811

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WATER PLAN AND PROFILE

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STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
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PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

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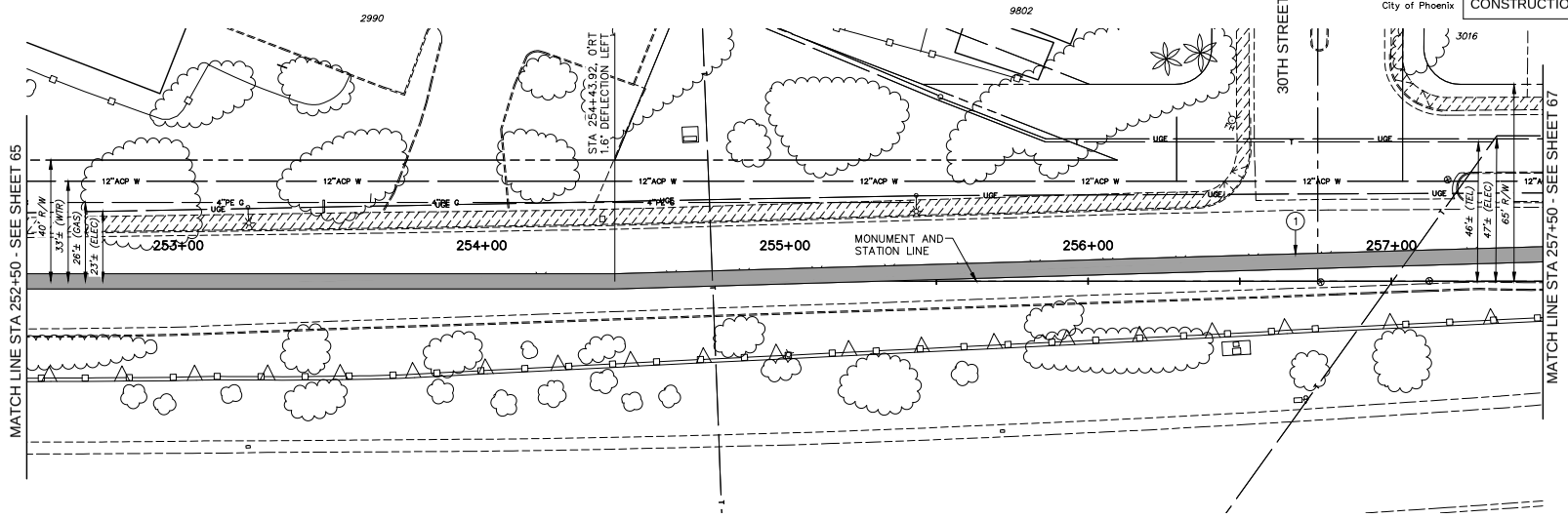

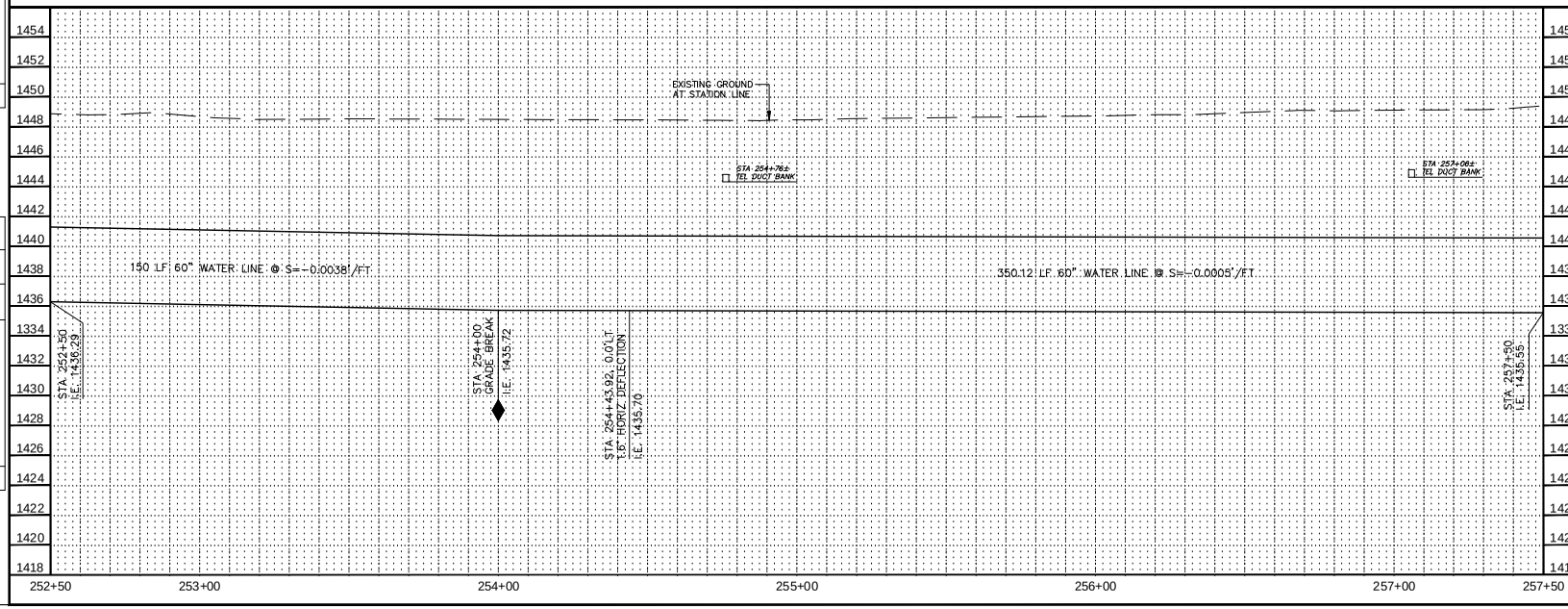

CONSTRUCTION NOTES

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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

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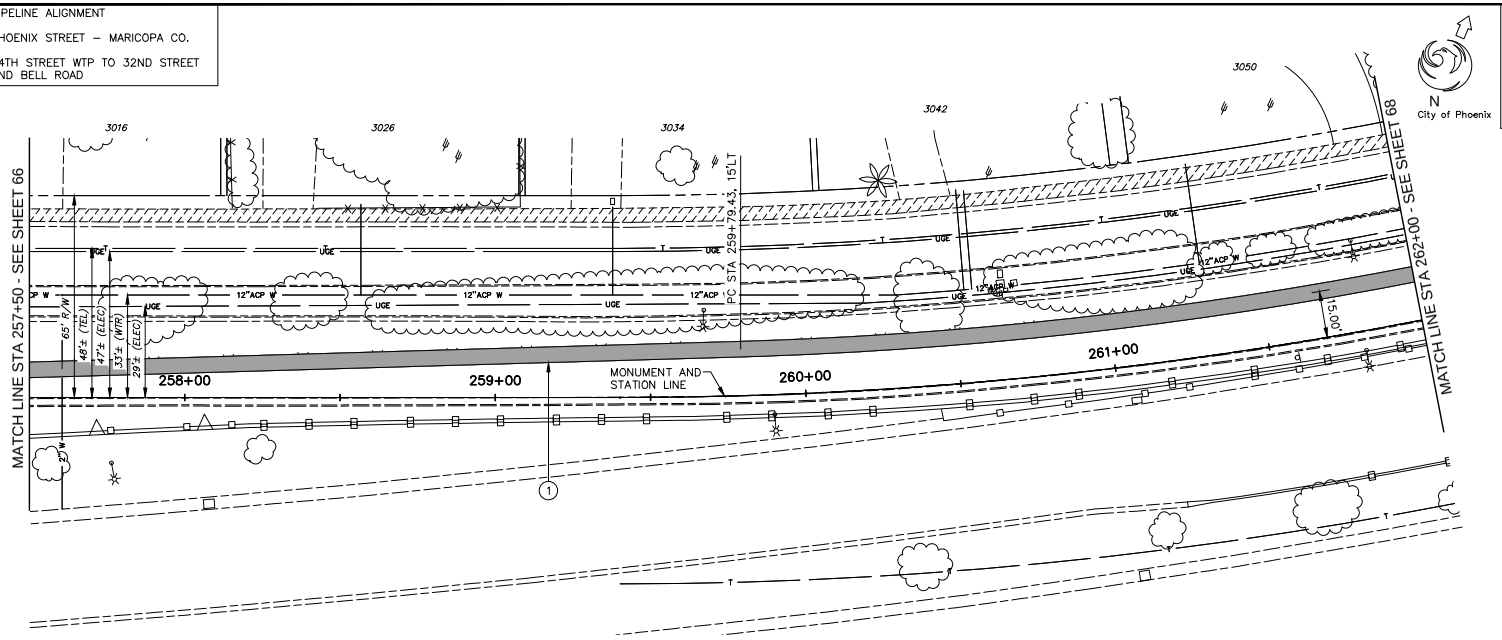
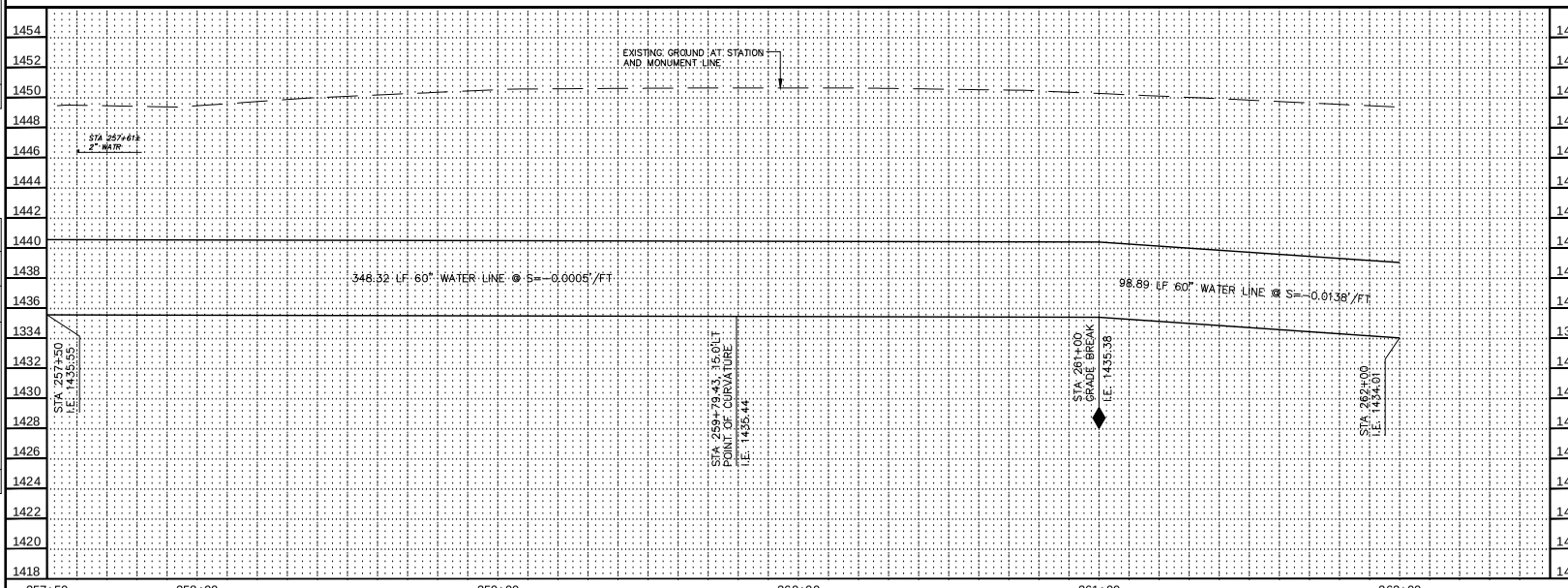
PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



NORTHERN AVENUE



30%

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CONSTRUCTION NOTES

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1	INSTALL 60" WATER LINE	LF	448

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			67	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

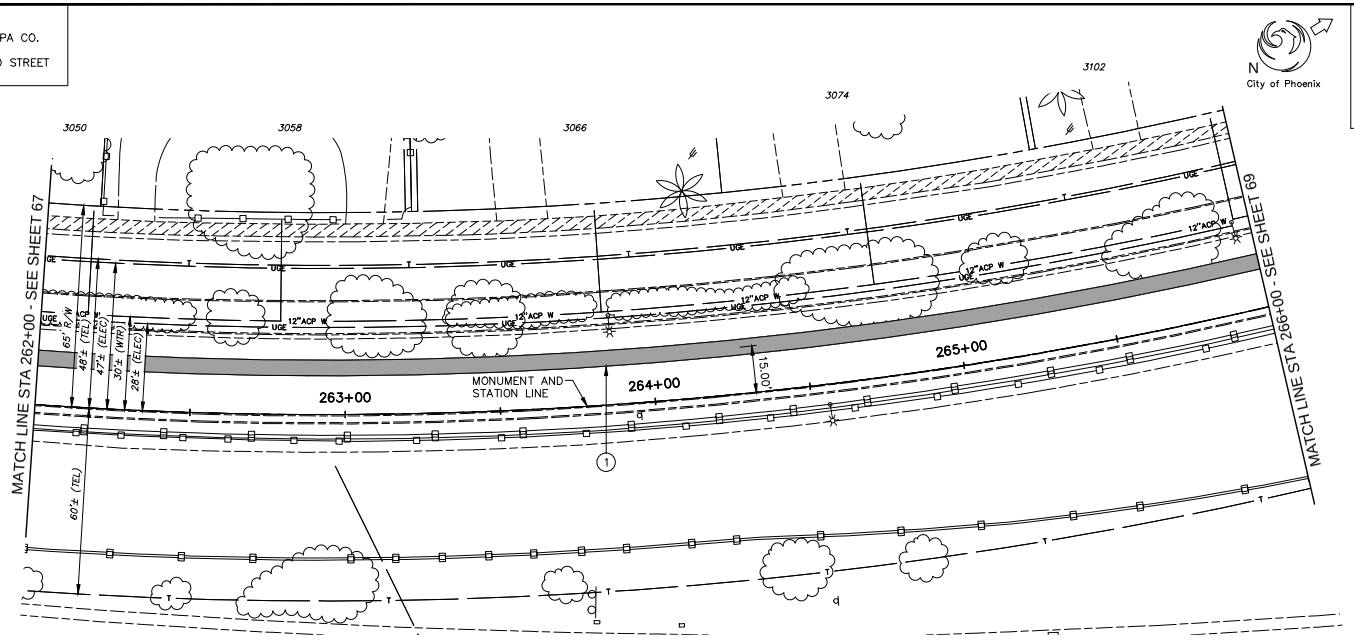
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

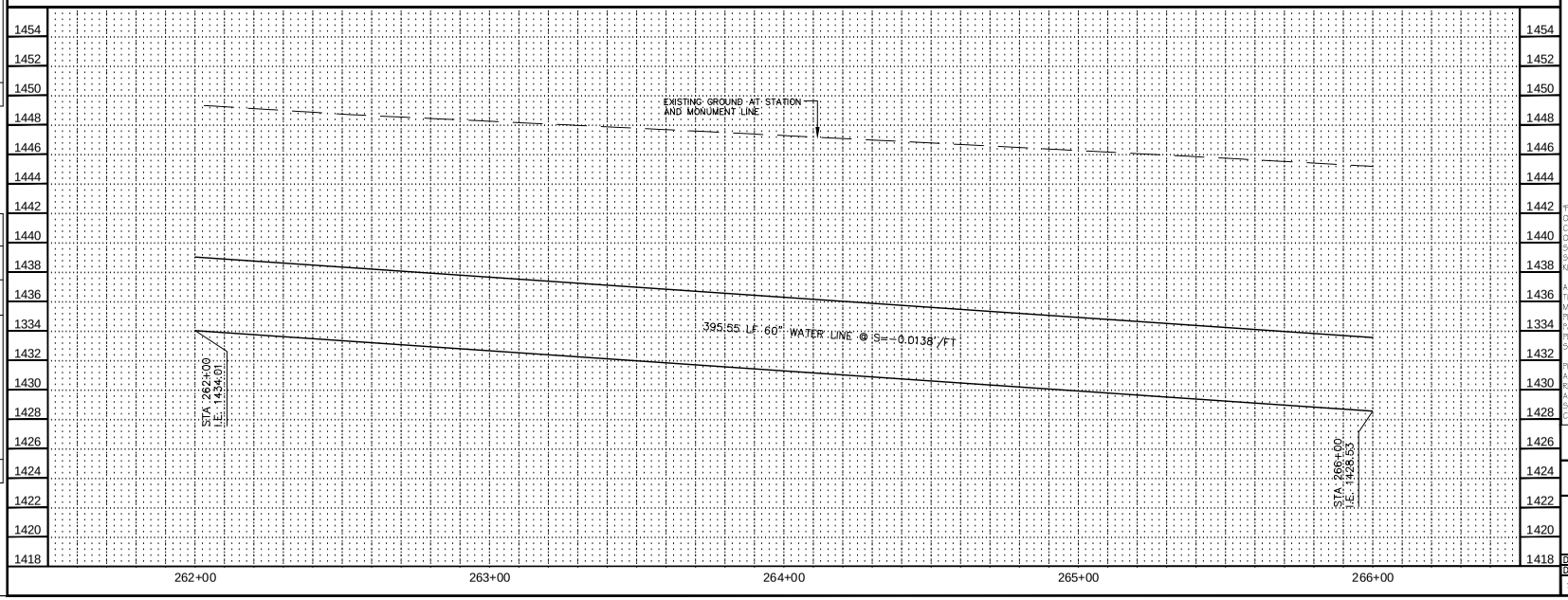
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



NORTHERN AVENUE



30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	68	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	396

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			68	117

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N
City of Phoenix

30%
PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	69	117

PEC
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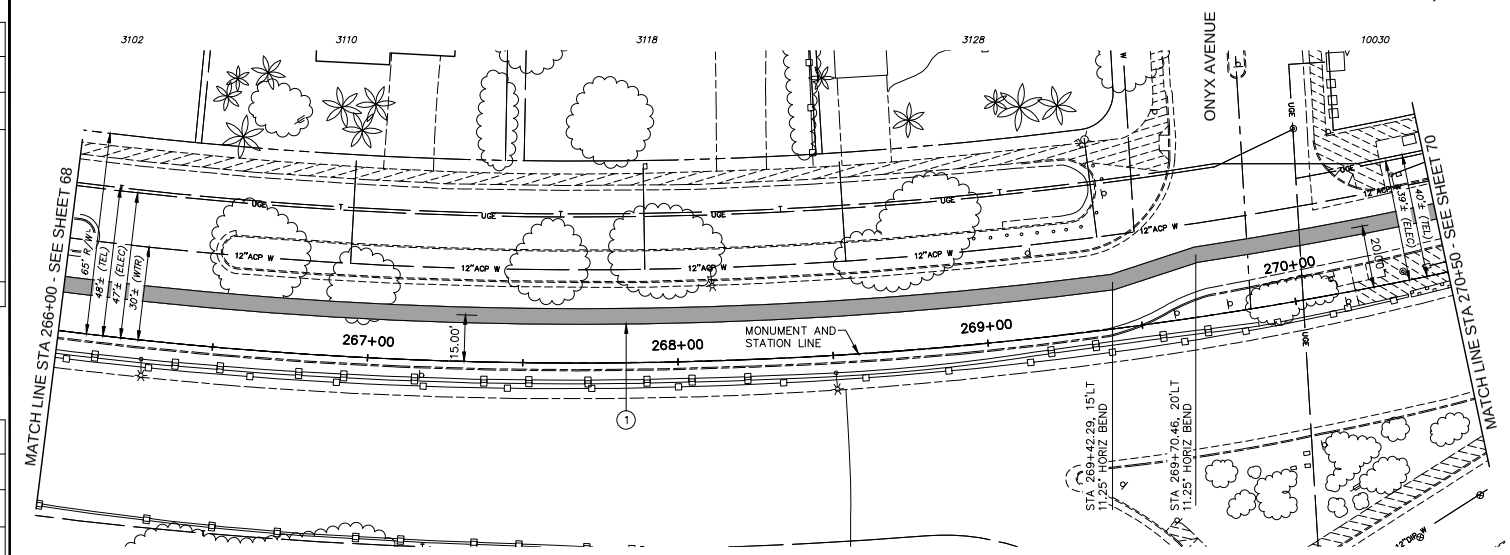

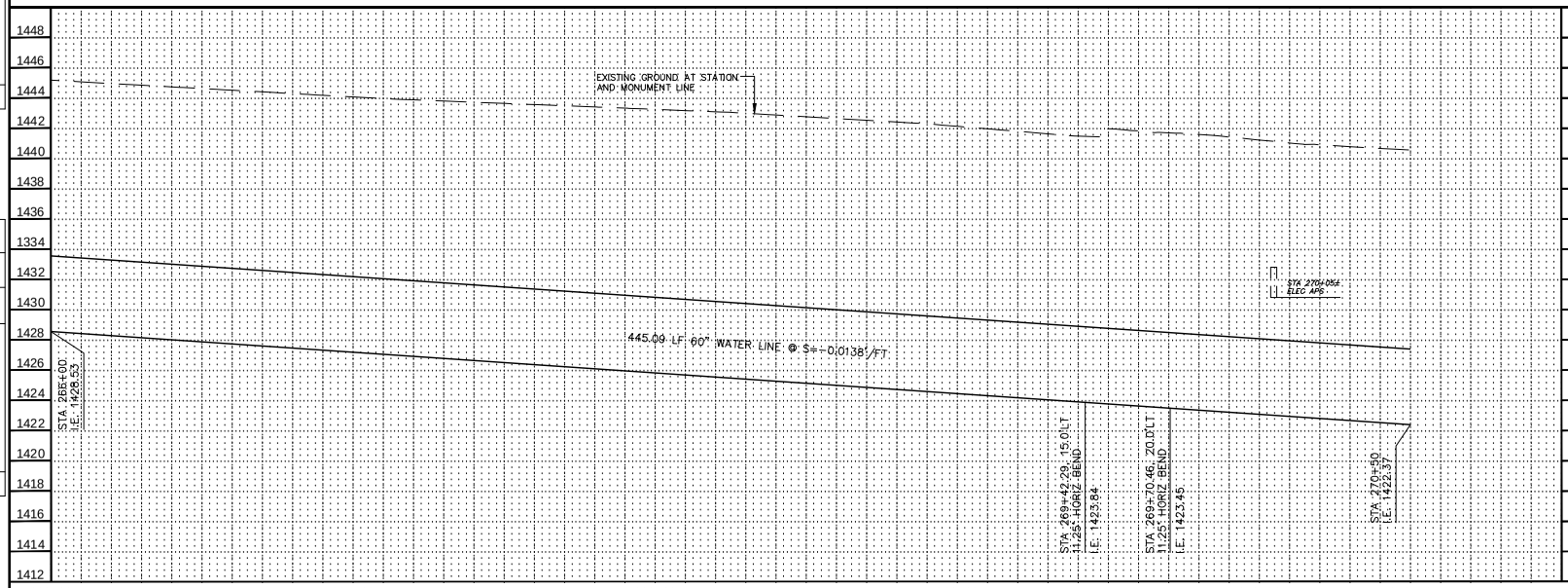

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	446

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ARIZONA 811
Call 811 or click ArizonaBlue811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			69	117

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	70	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
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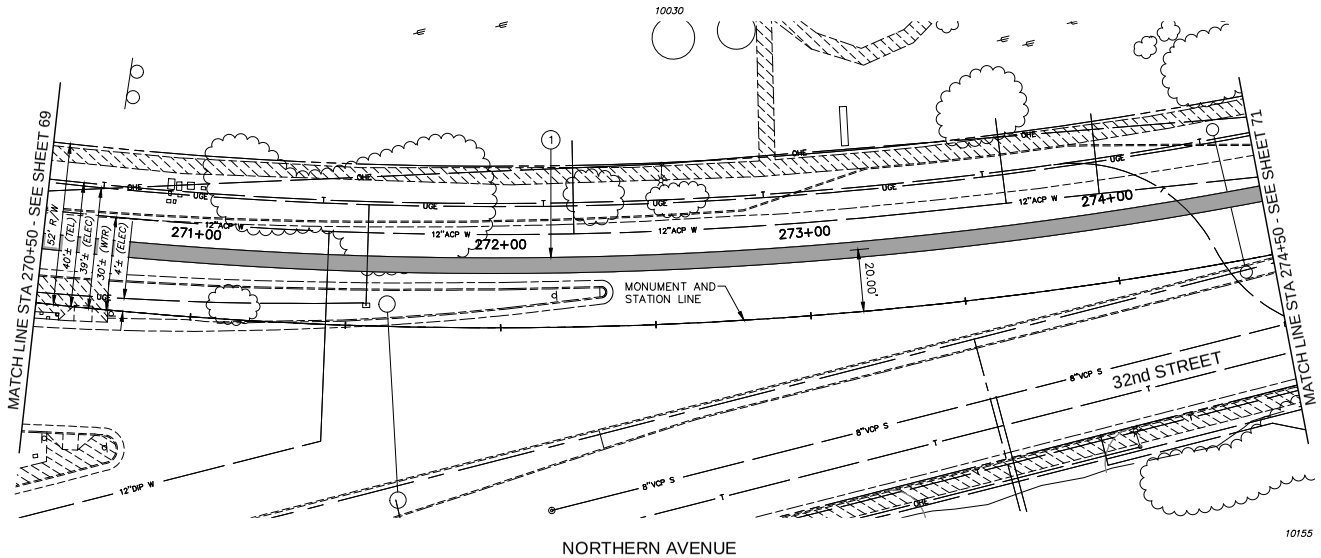
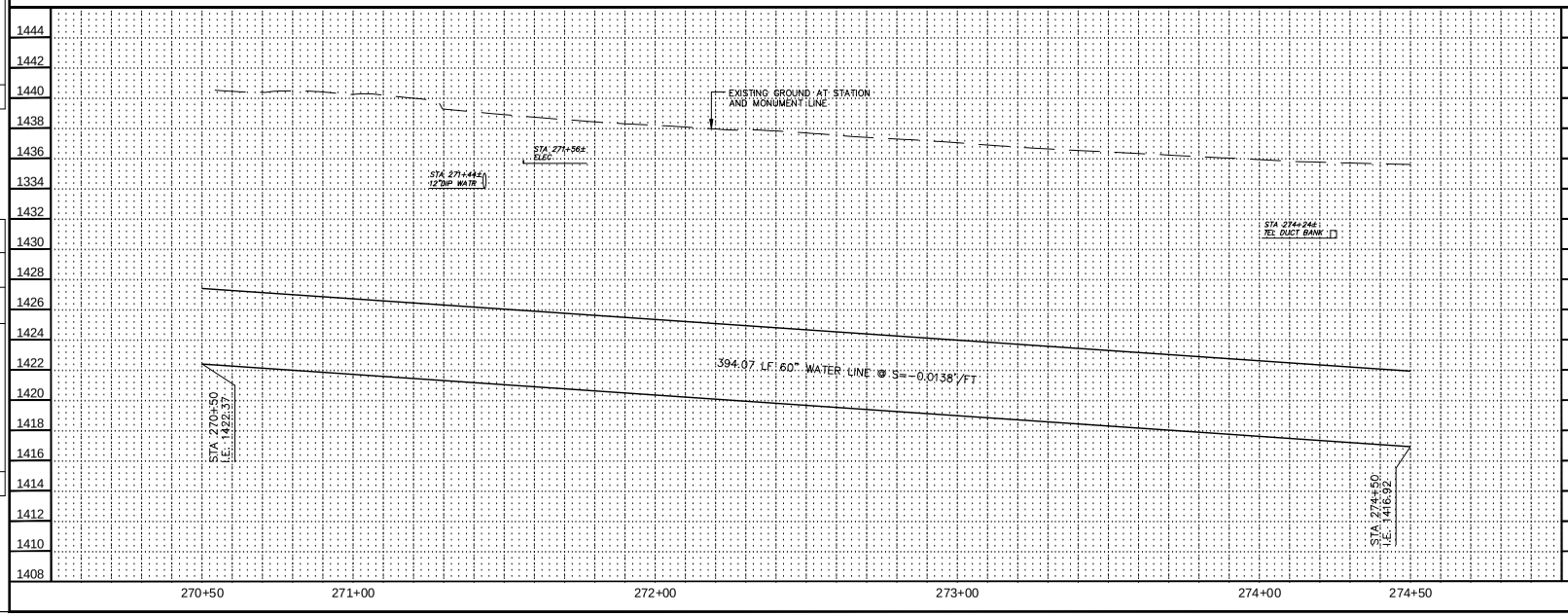
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	395



NORTHERN AVENUE



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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
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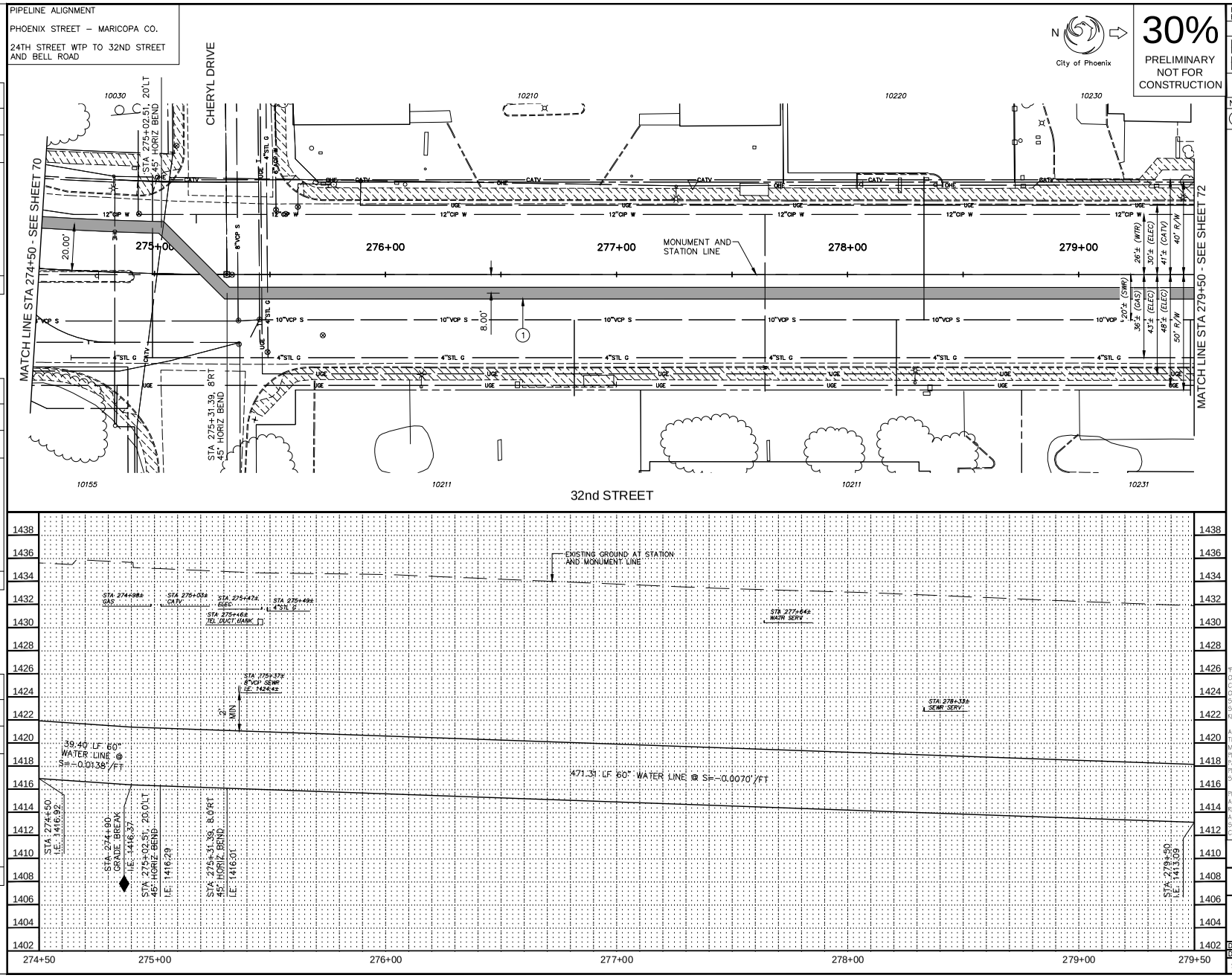
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	71	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	512

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	72	117

PEC
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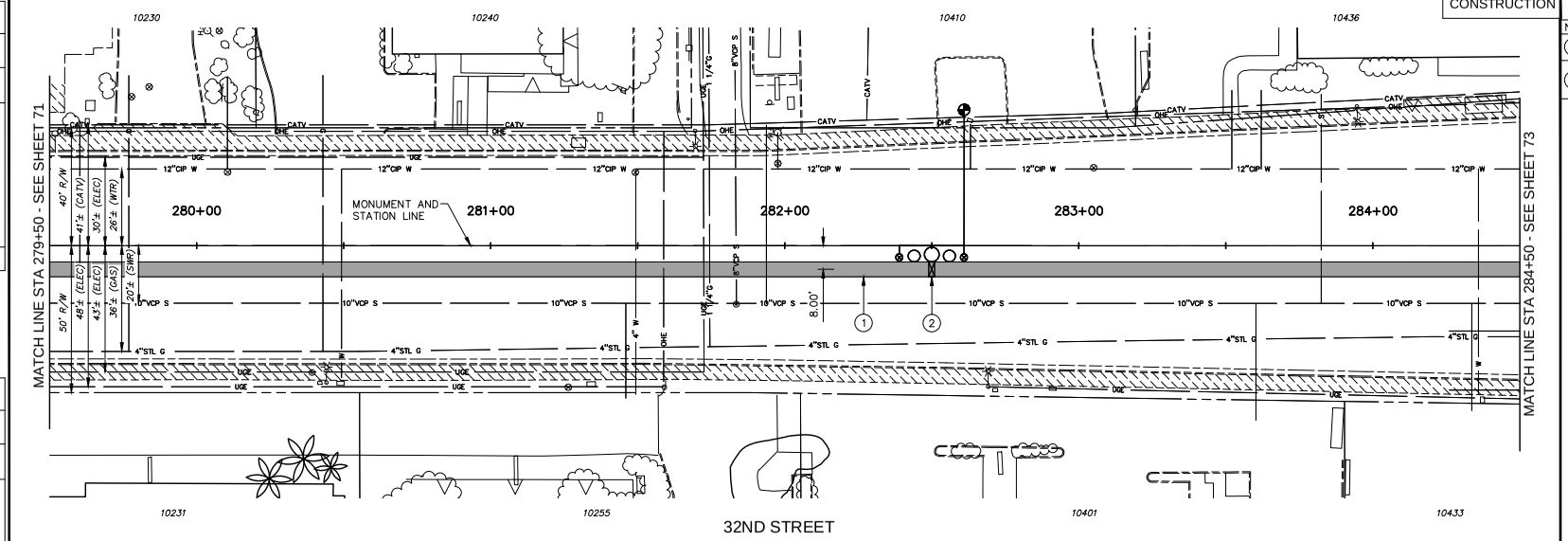
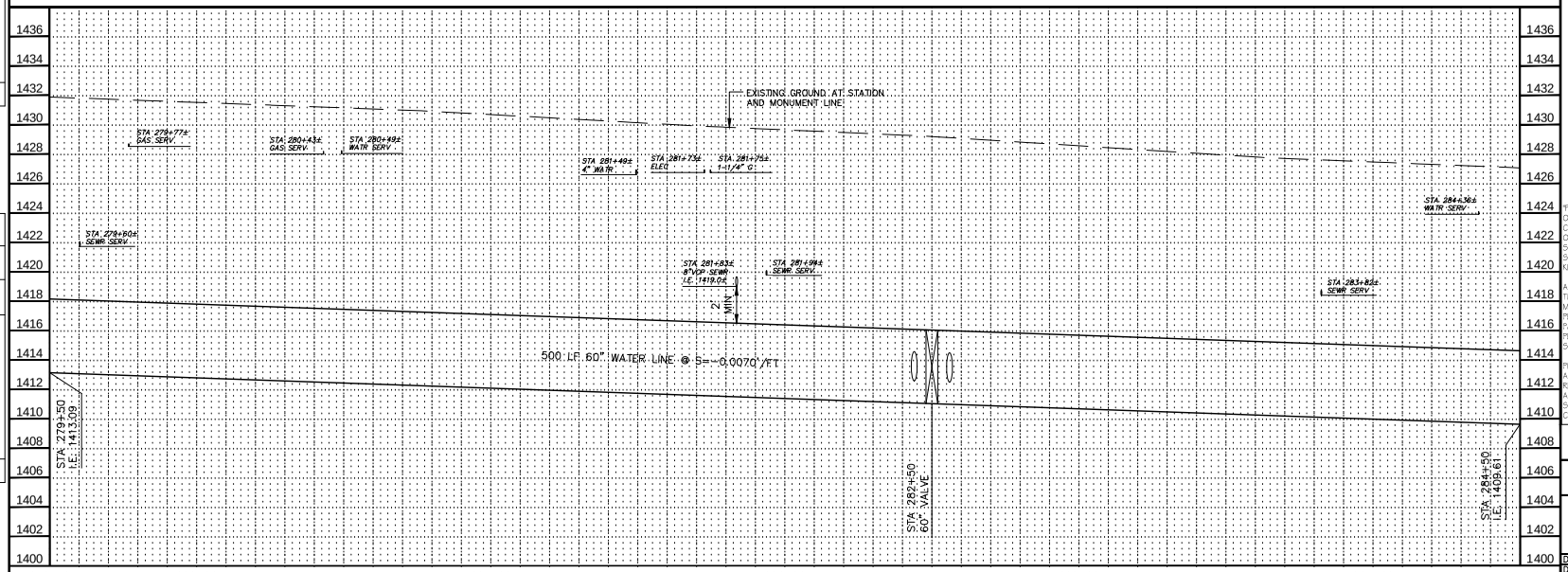
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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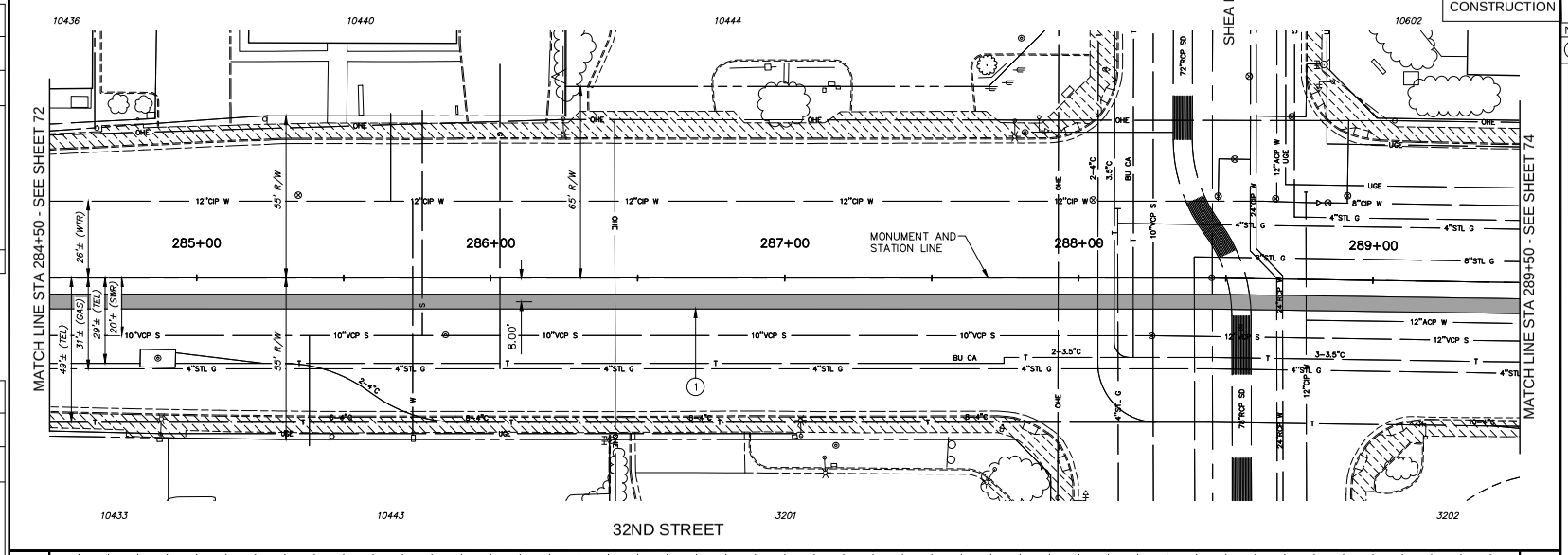
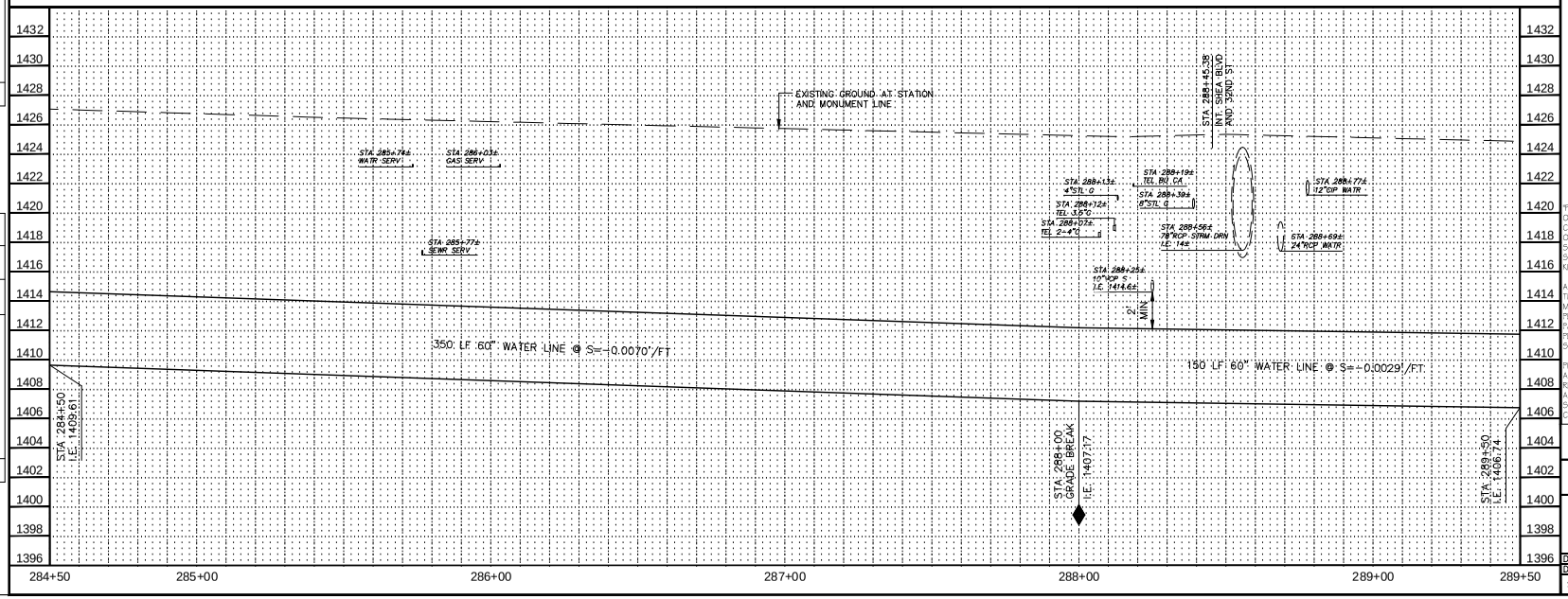
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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PEC
PROJECT ENGINEERING CONSULTANTS
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Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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ARIZONA 811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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PEC PROJECT ENGINEERING CONSULTANTS
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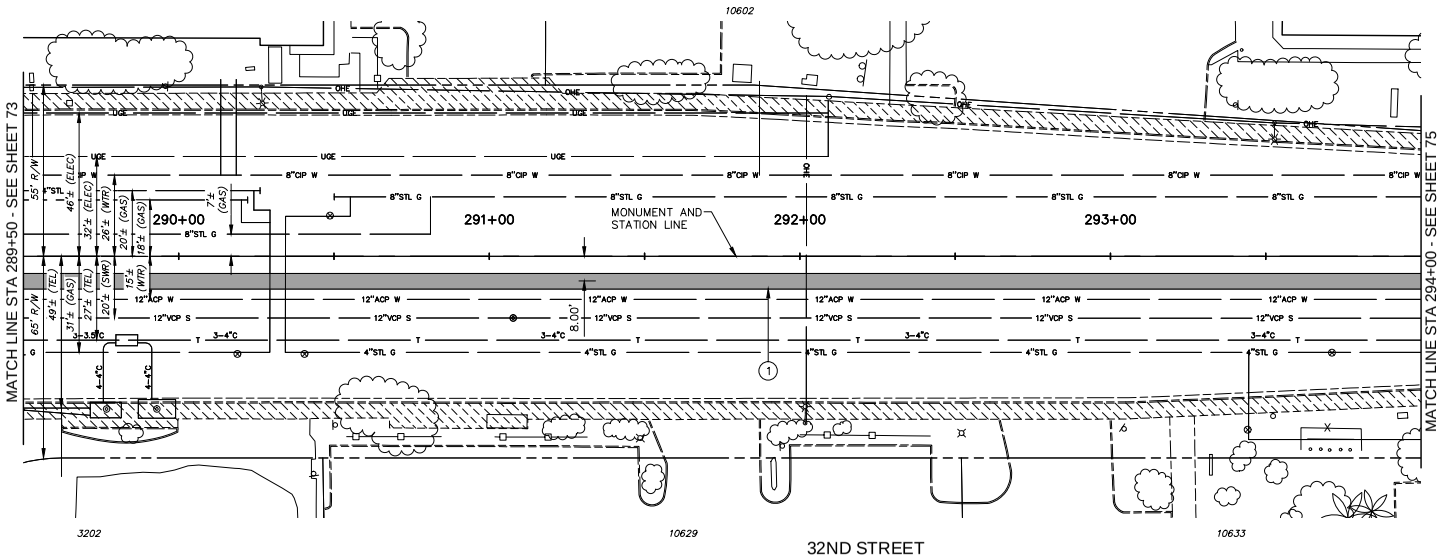

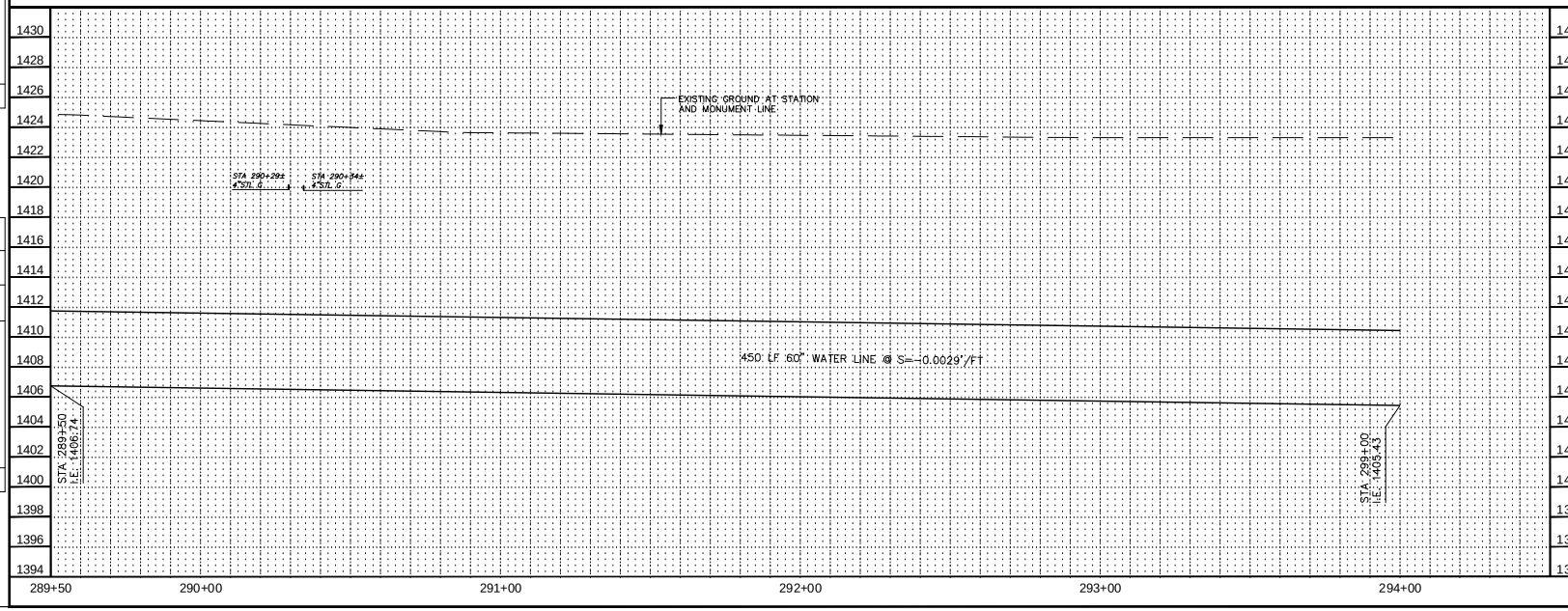

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			74	117

REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

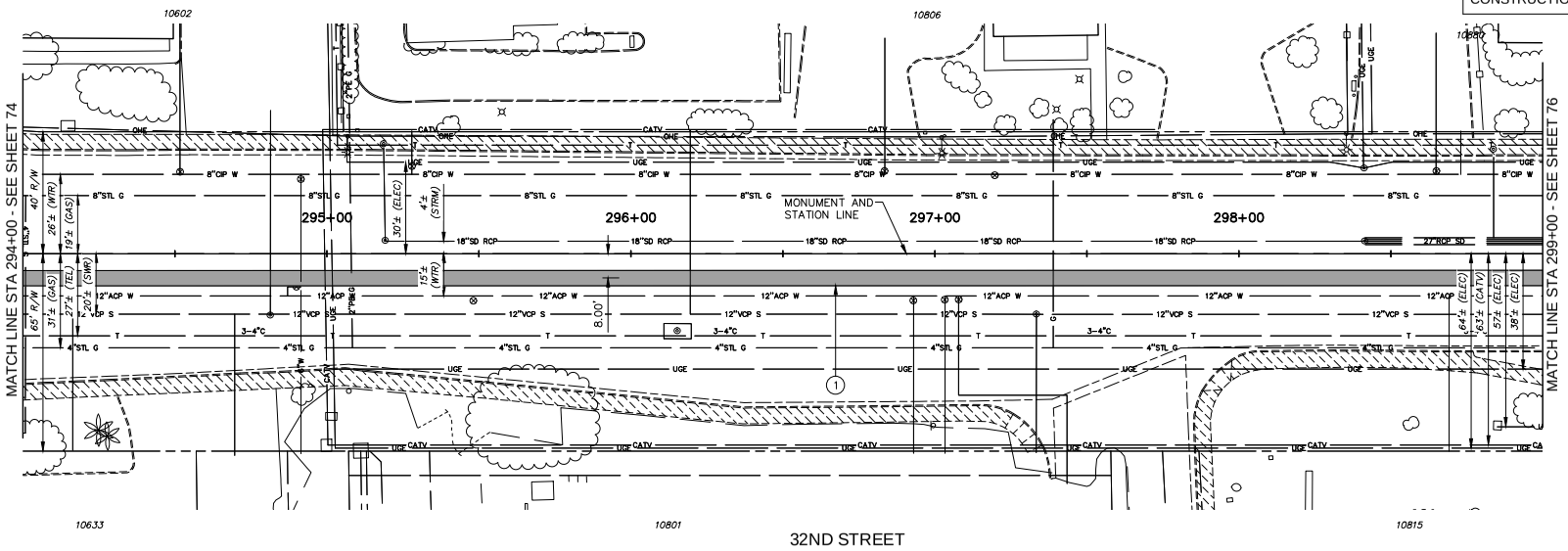
PRELIMINARY NOT FOR CONSTRUCTION

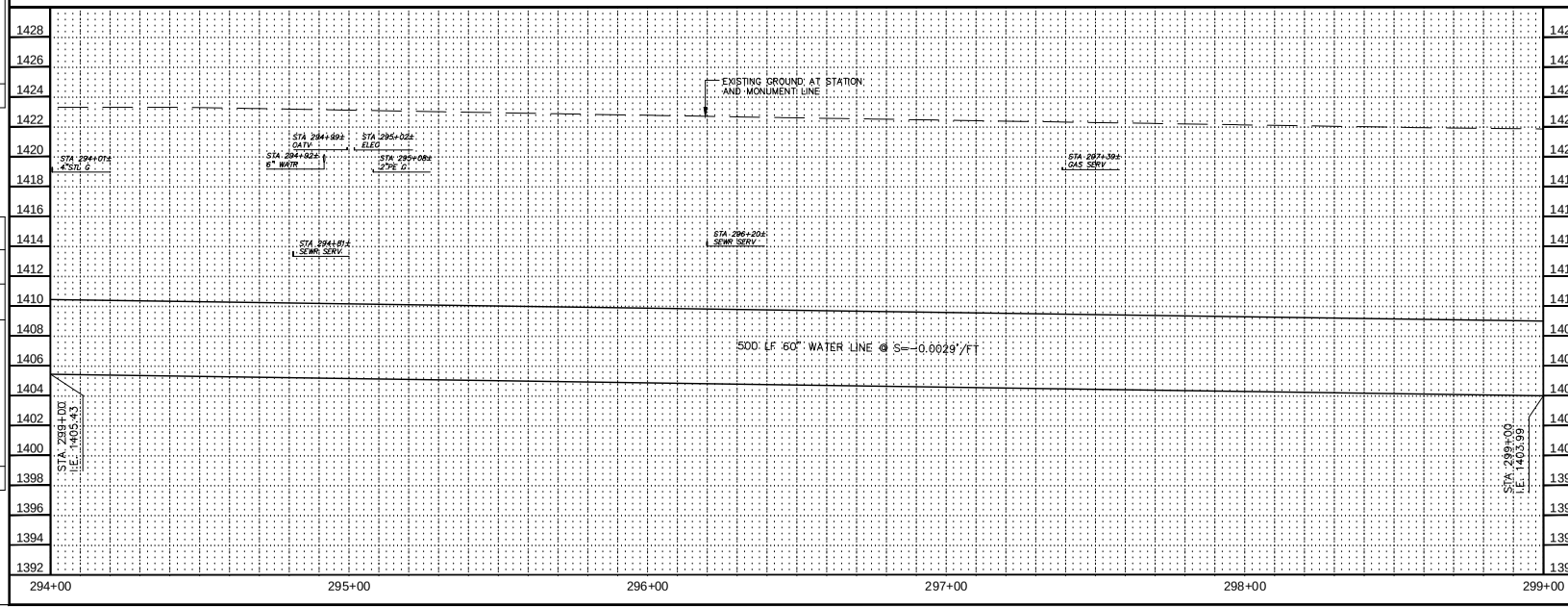
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	75	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500





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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY
NOT FOR
CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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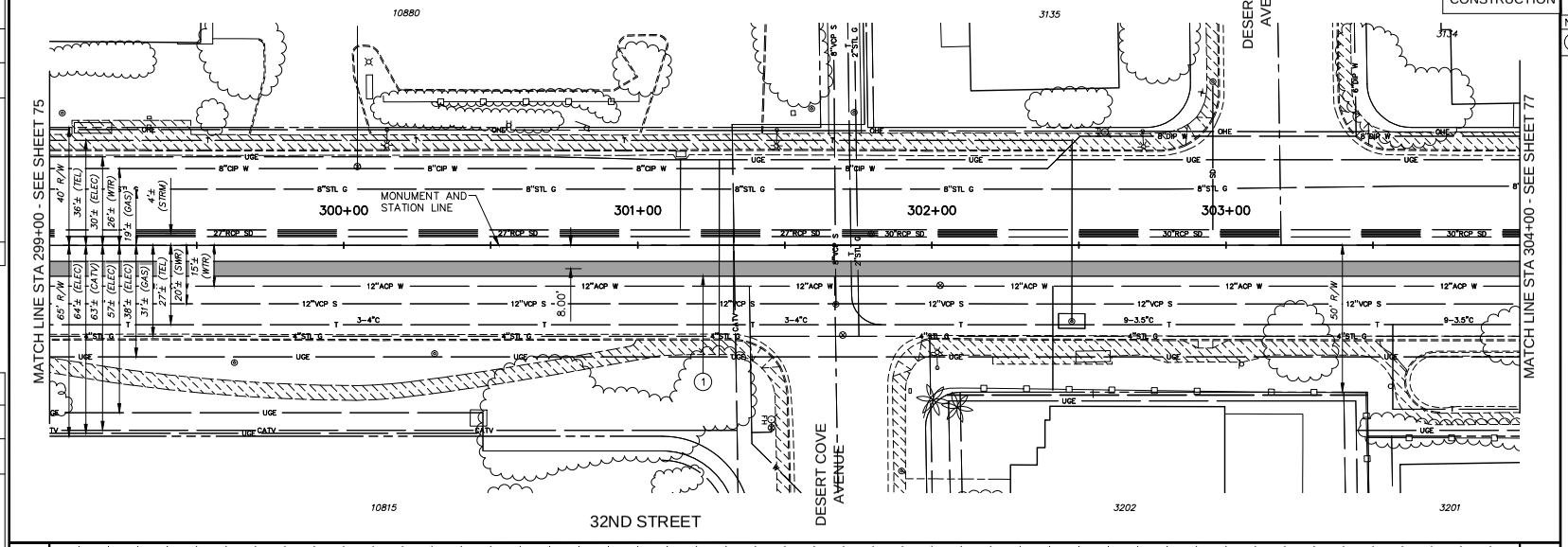
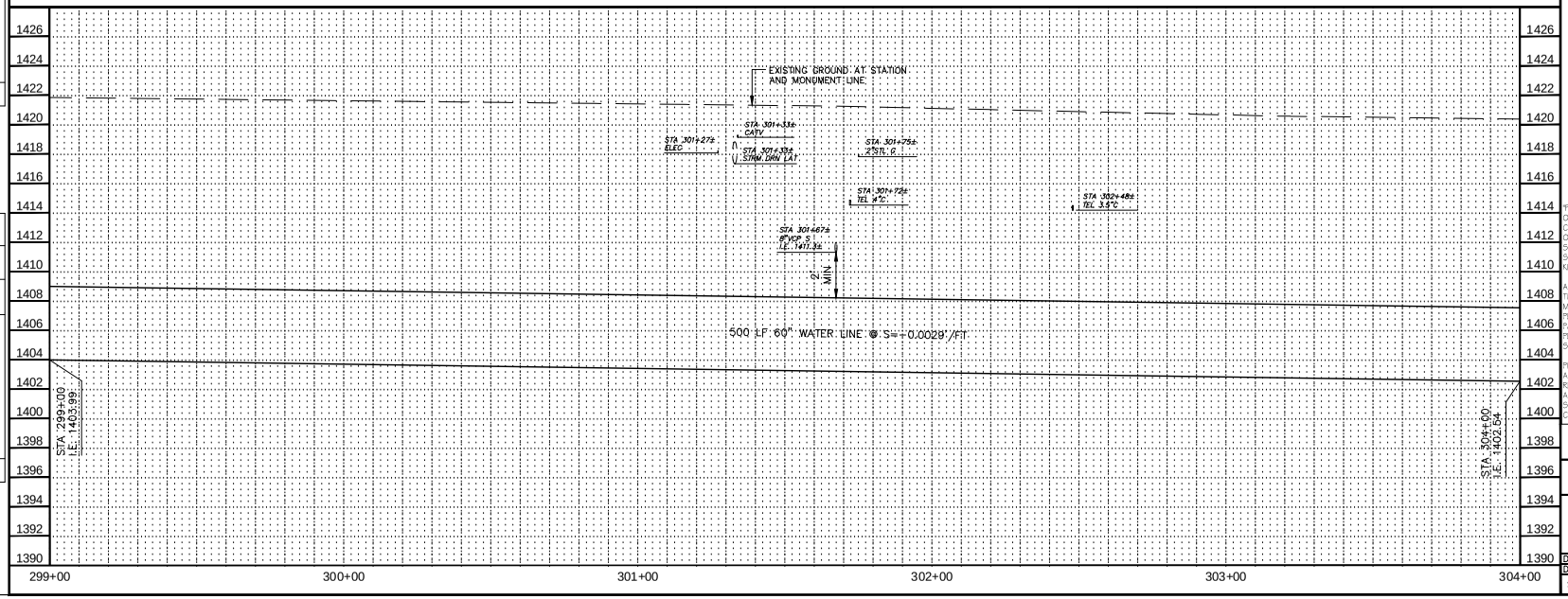
1	INSTALL 60" WATER LINE	LF	500





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

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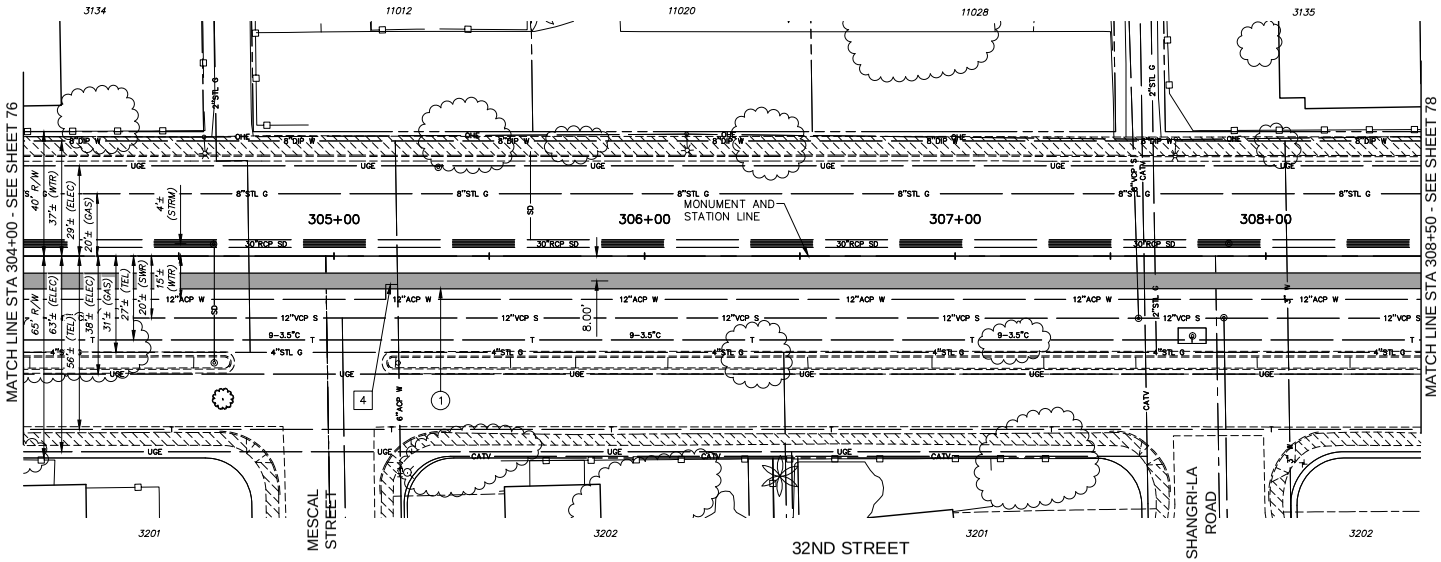

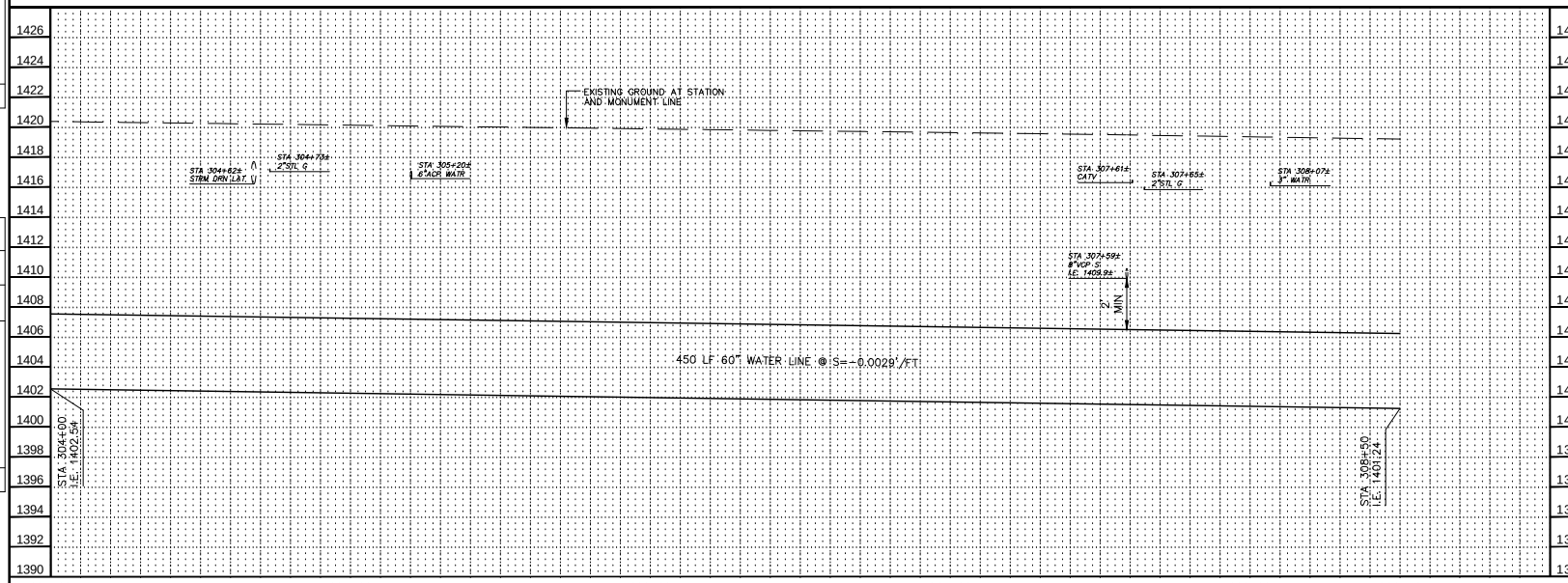

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
4	RELOCATE 12" ACP WATER LINE CONNECTION TO 6" ACP WATER LINE	EA	1

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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

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24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

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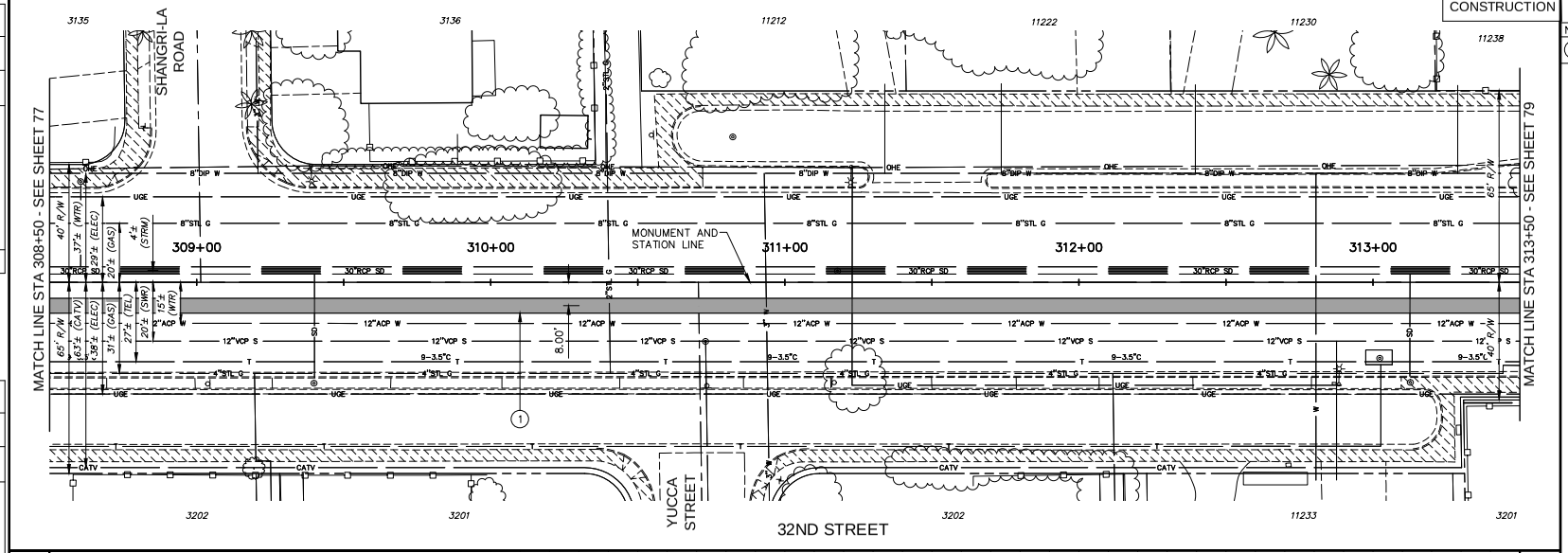
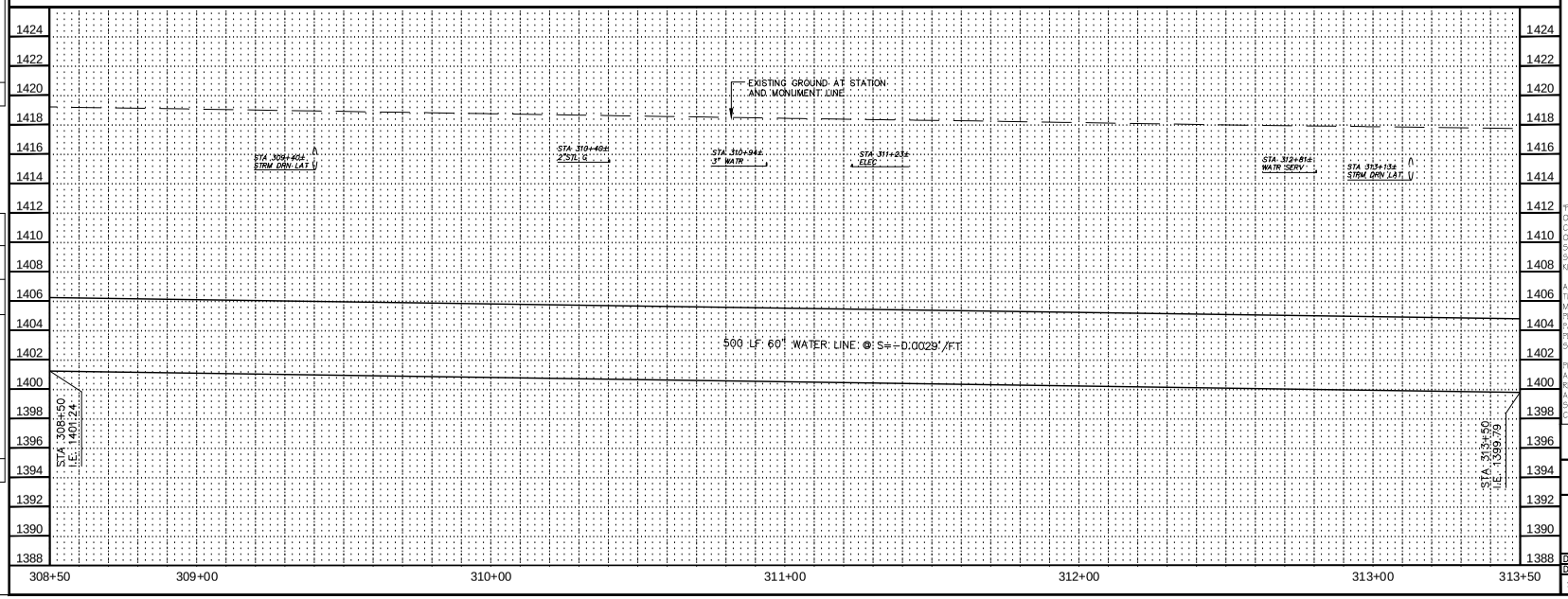
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500





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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

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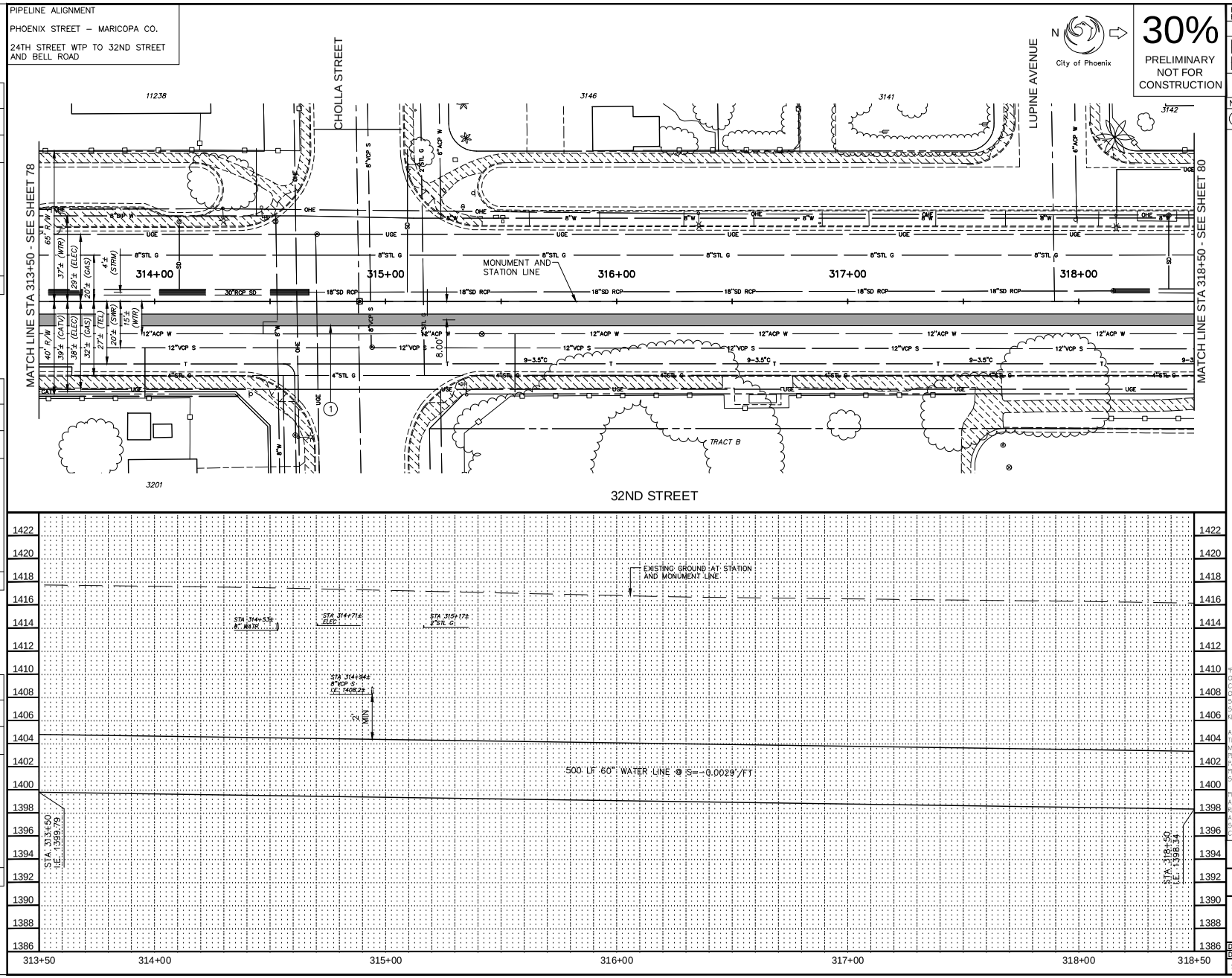
PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD



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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

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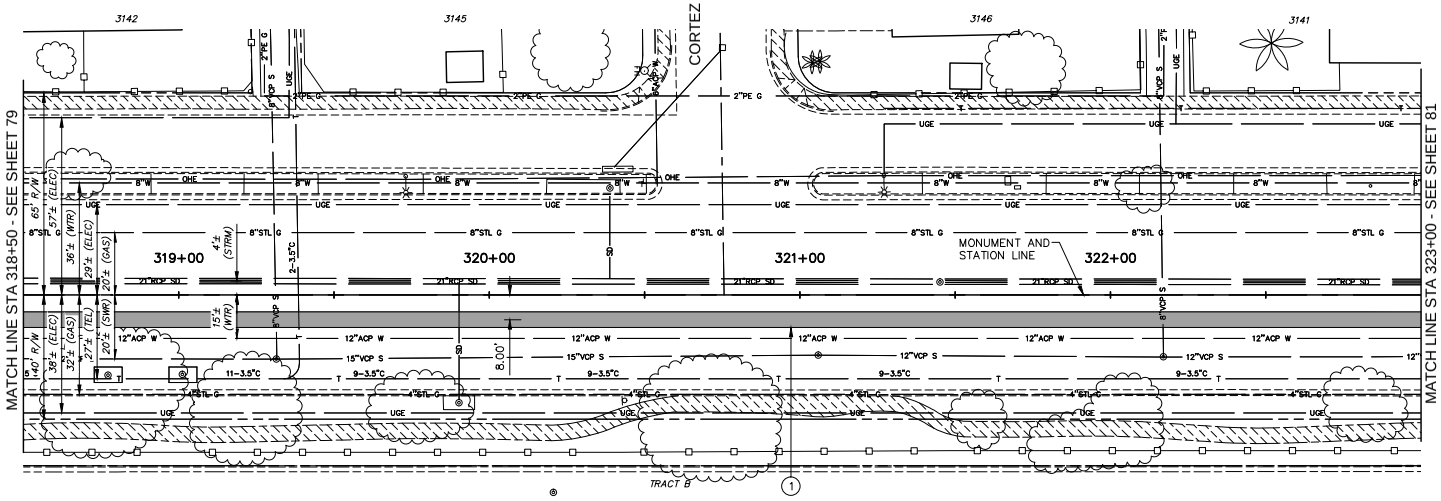
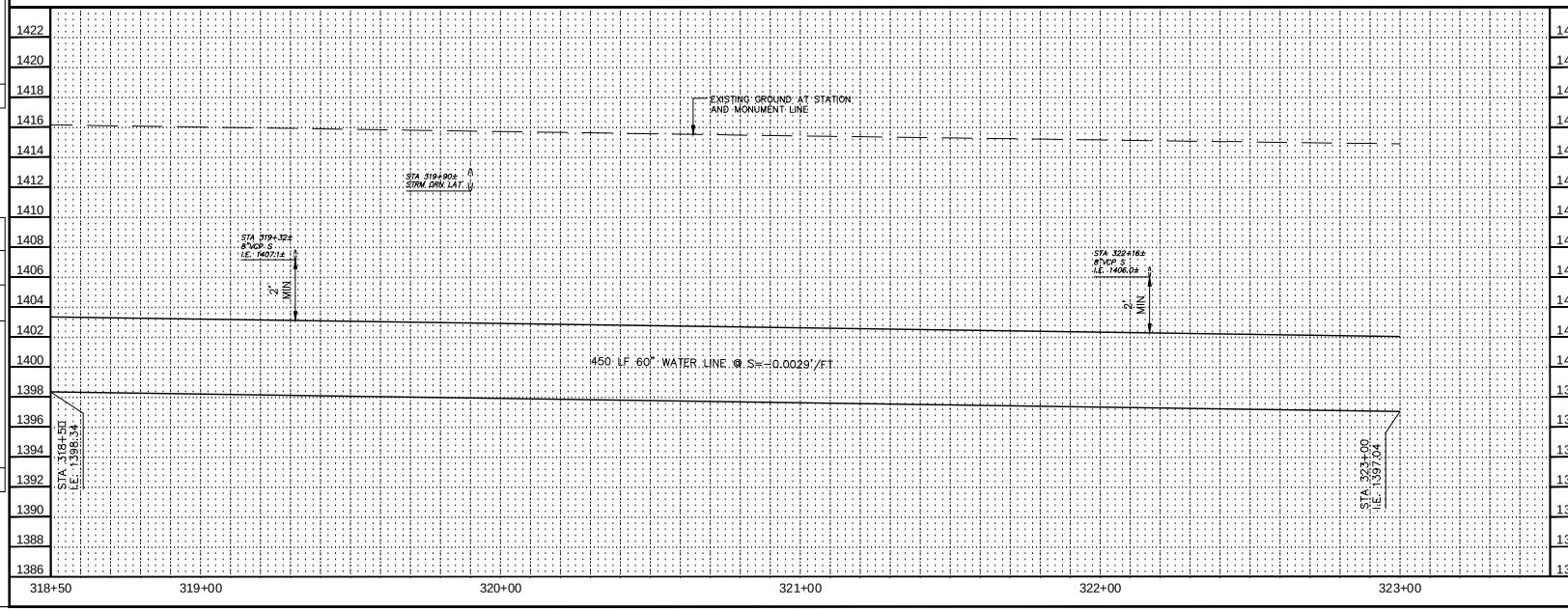


32ND STREET



30%

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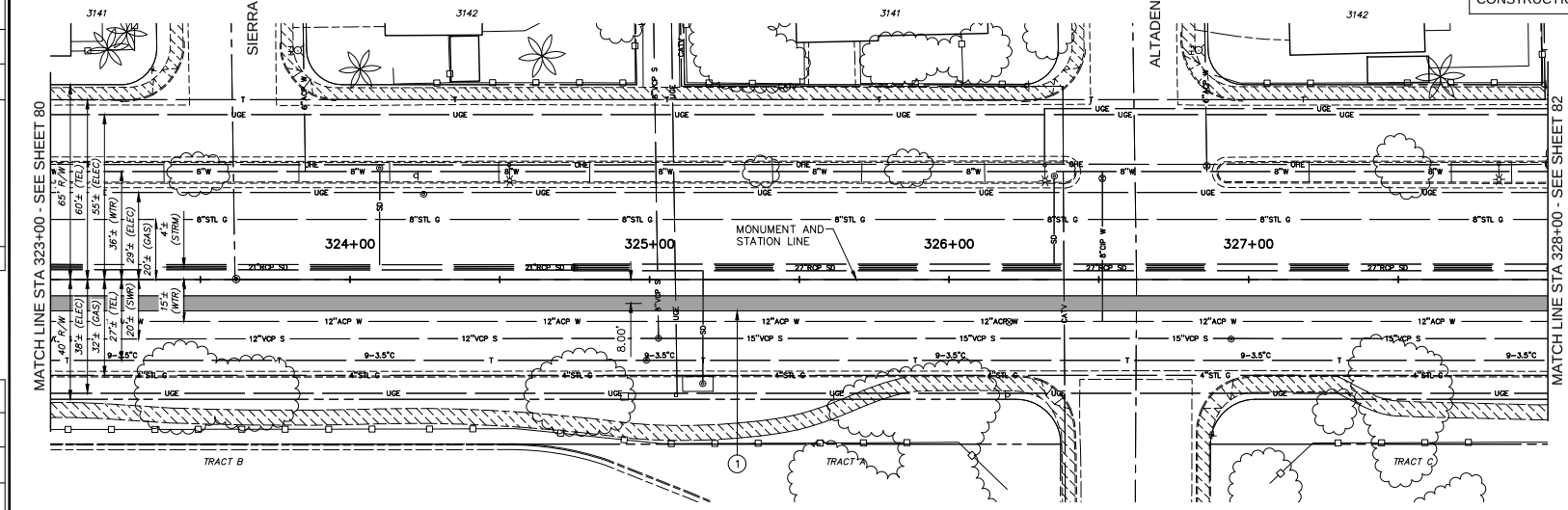

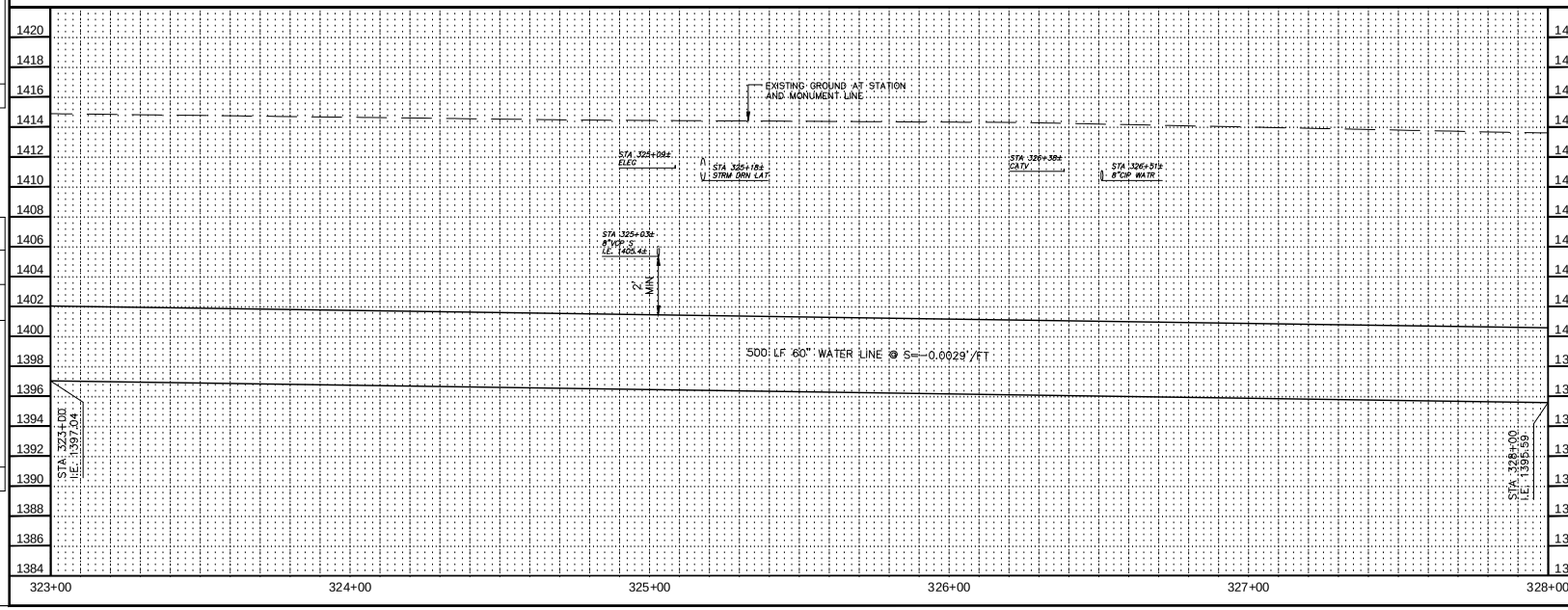

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			81	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

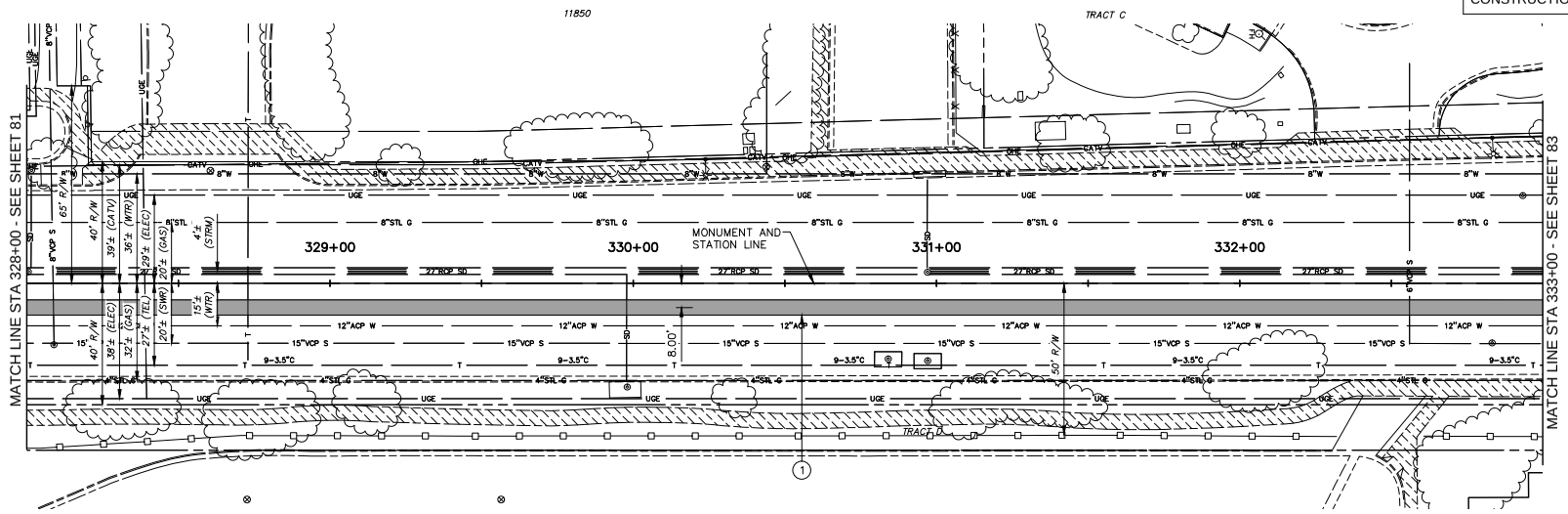
PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	82	117

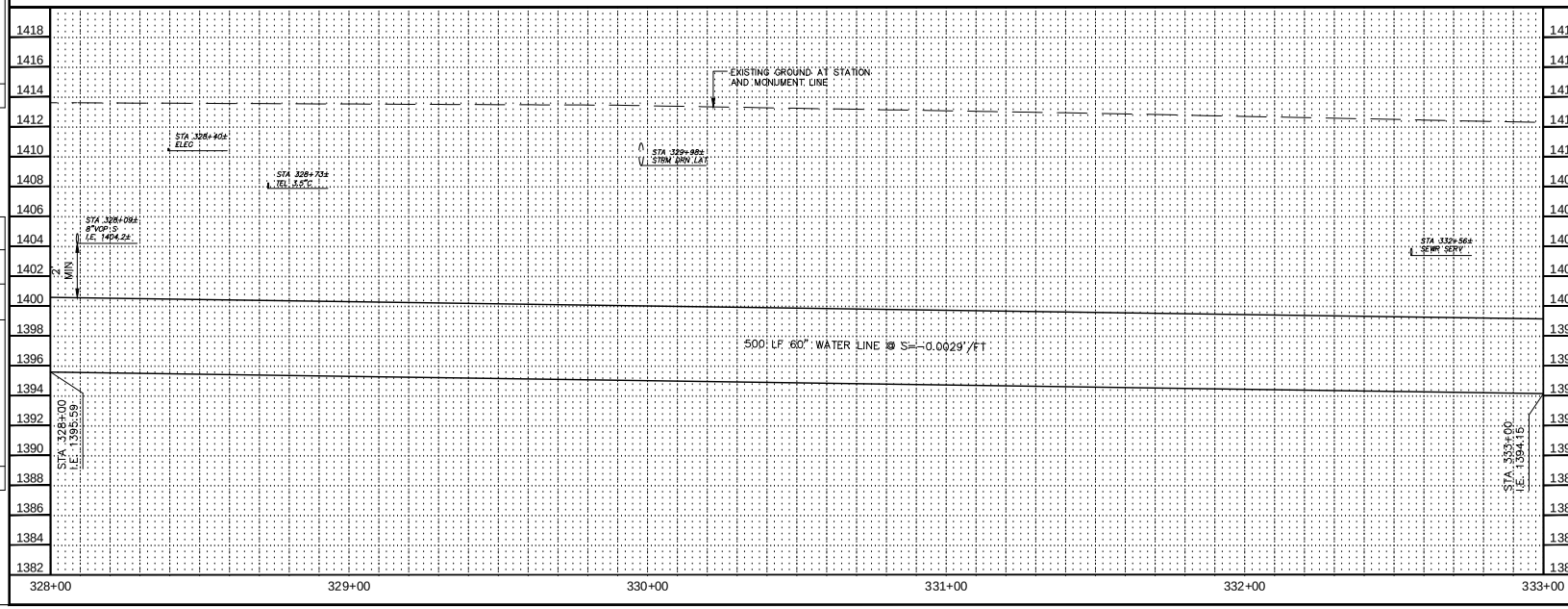
PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500



32ND STREET



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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

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City of Phoenix

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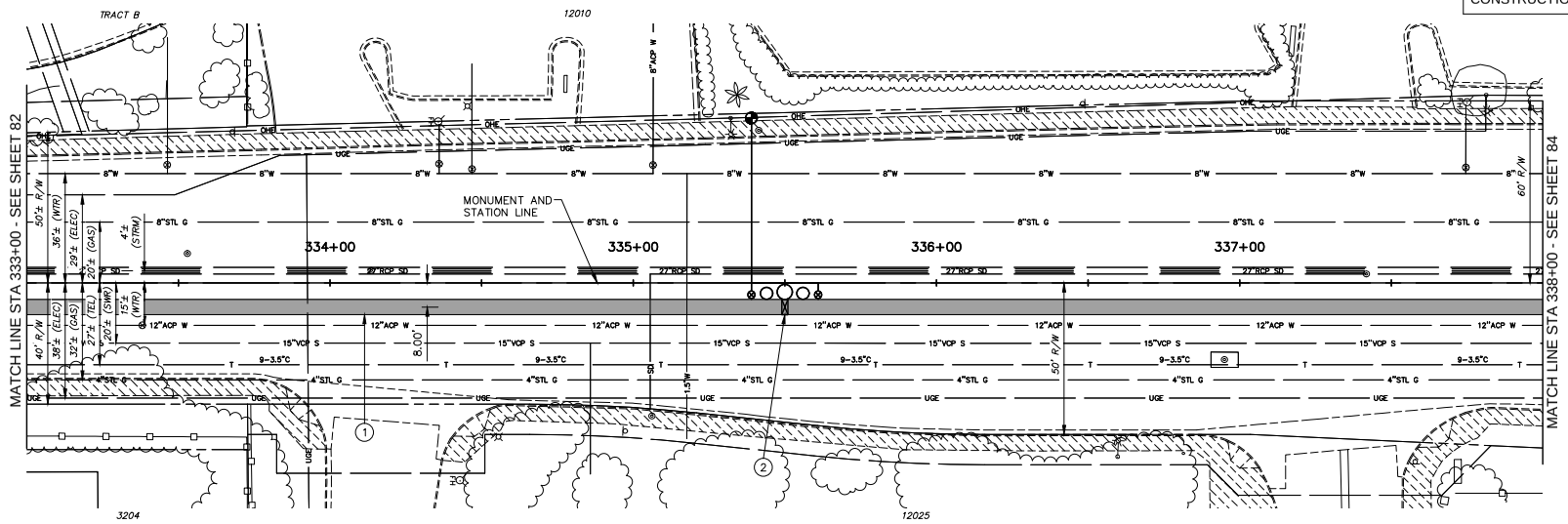
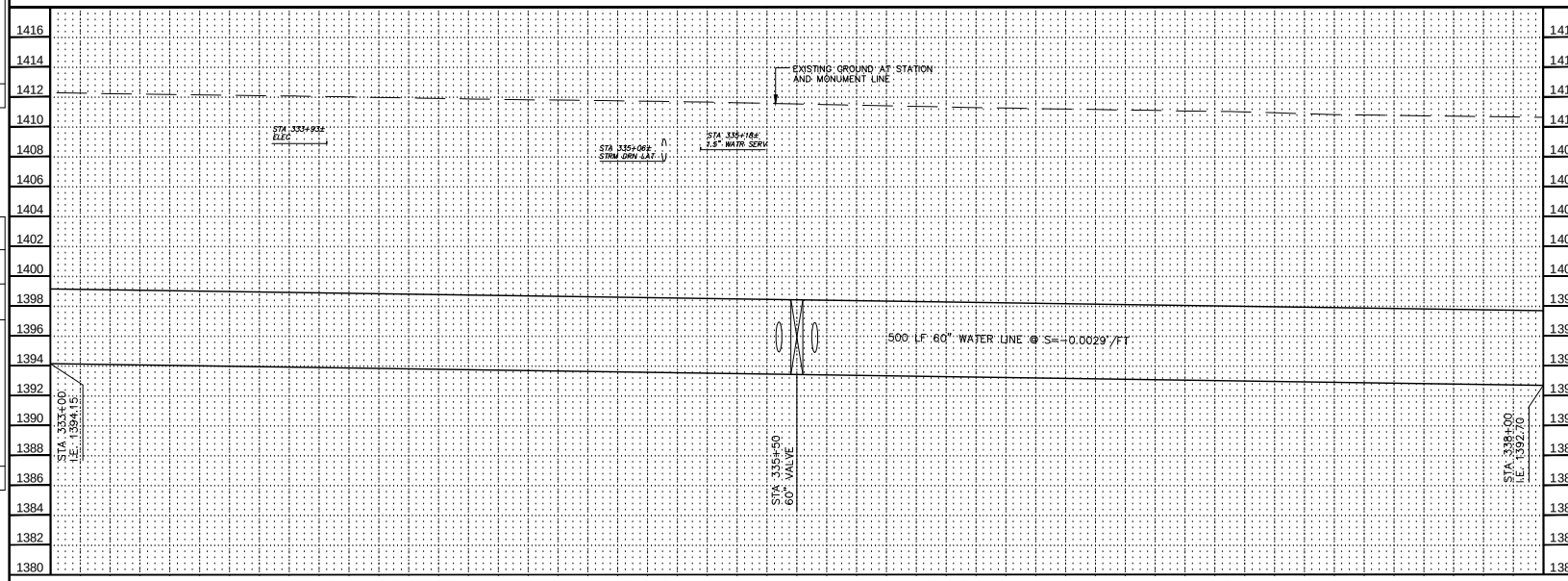


32ND STREET



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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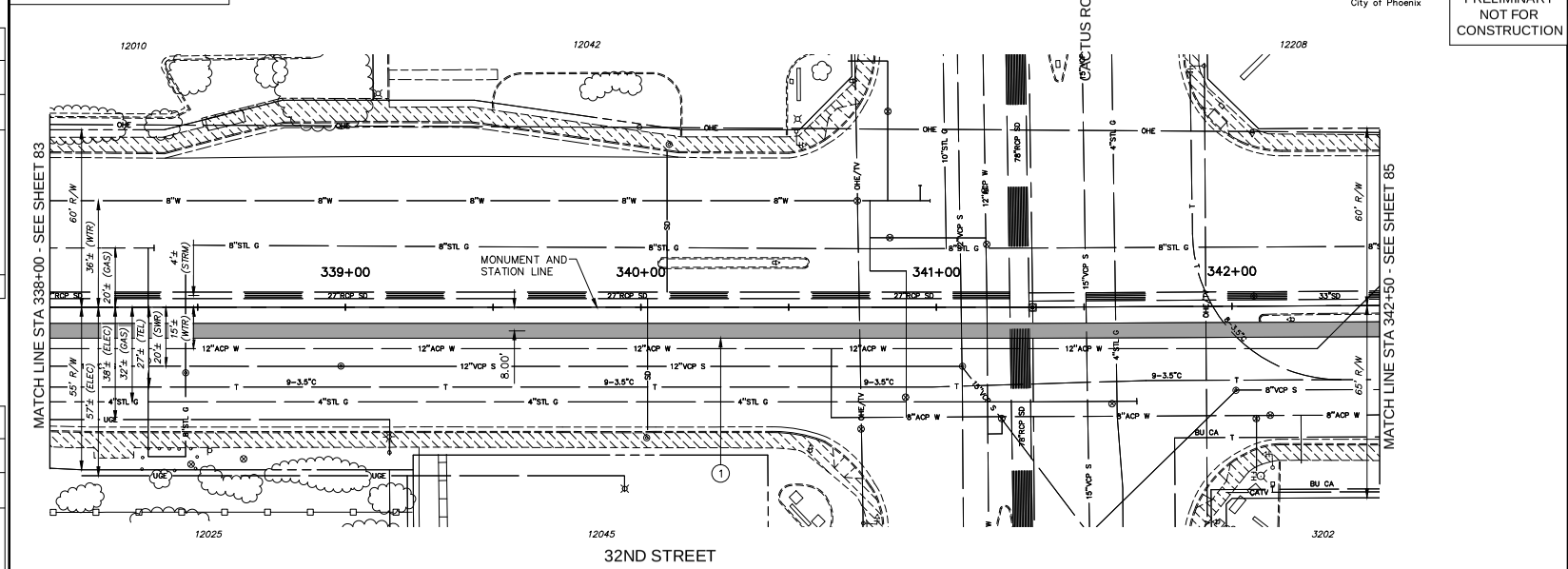
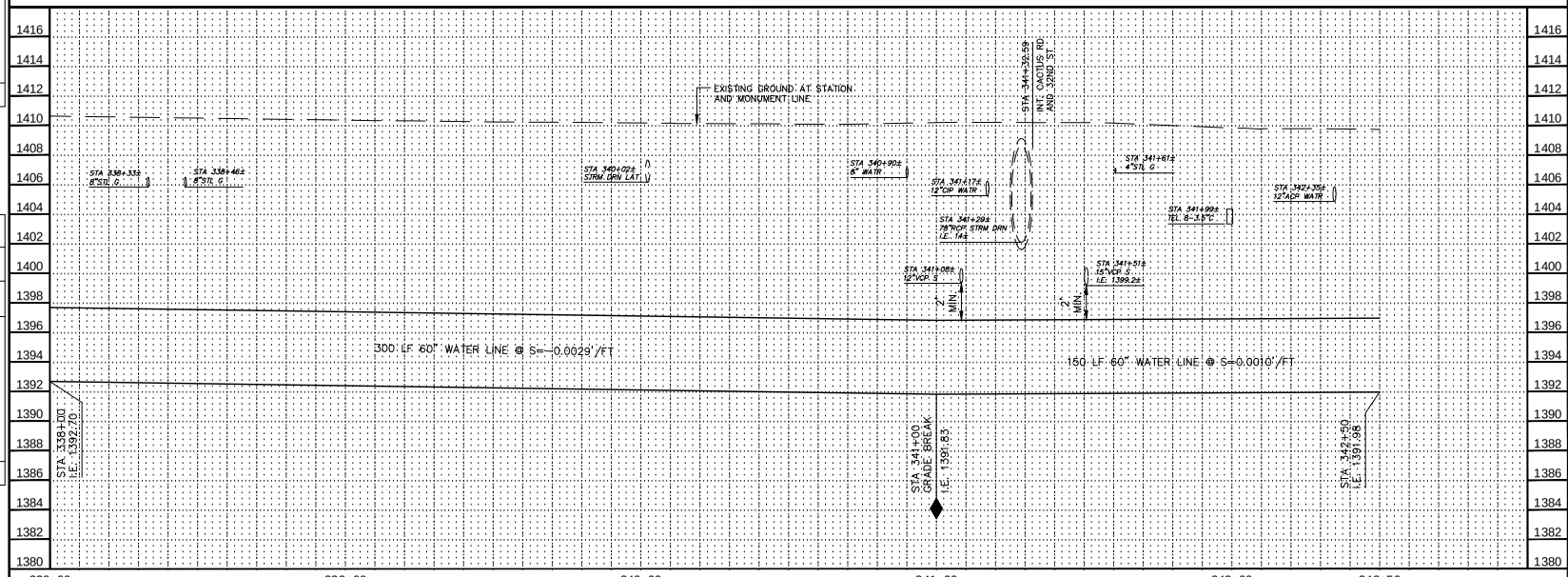
CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	450





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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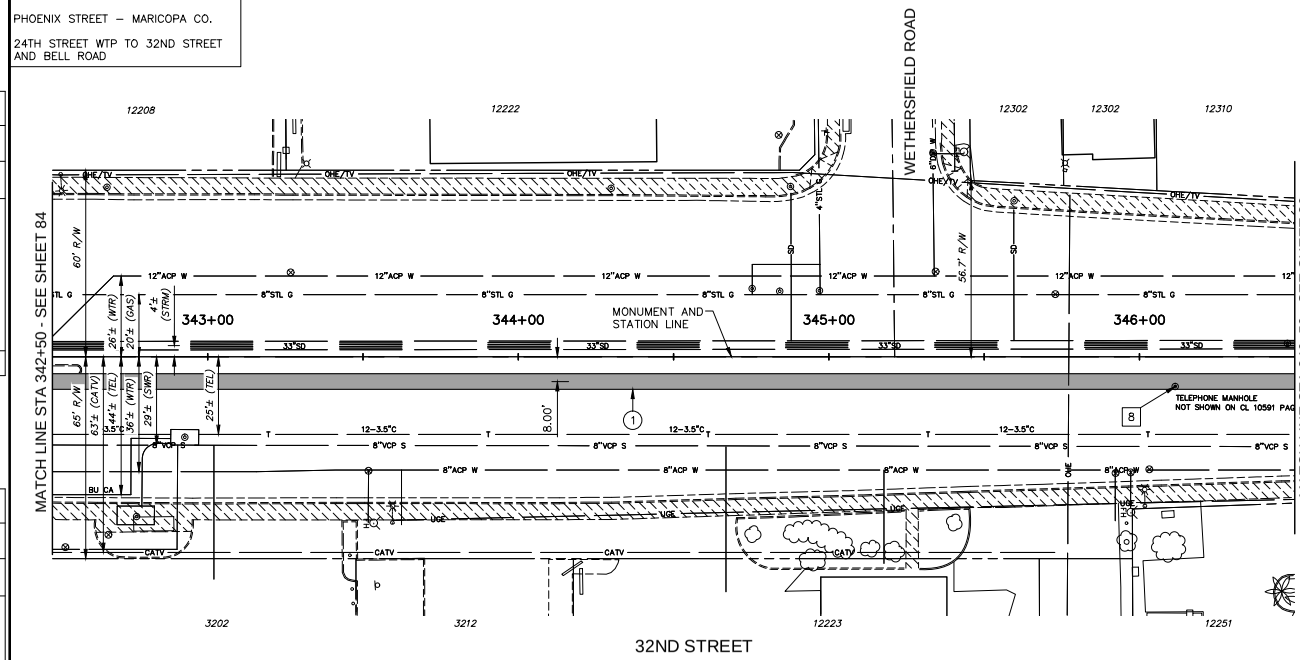
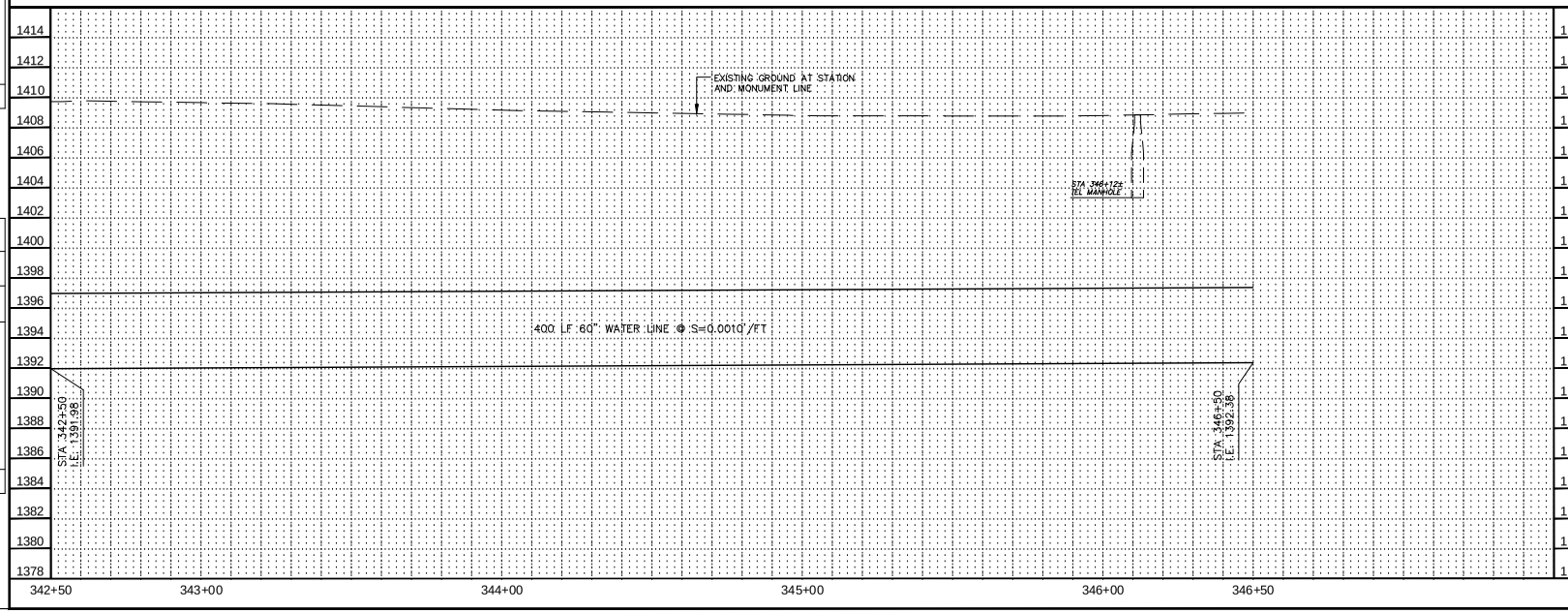
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





N

City of Phoenix

30%

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2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	400

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
8	RELOCATE TELEPHONE MANHOLE AND TELEPHONE LINES	EA	1

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

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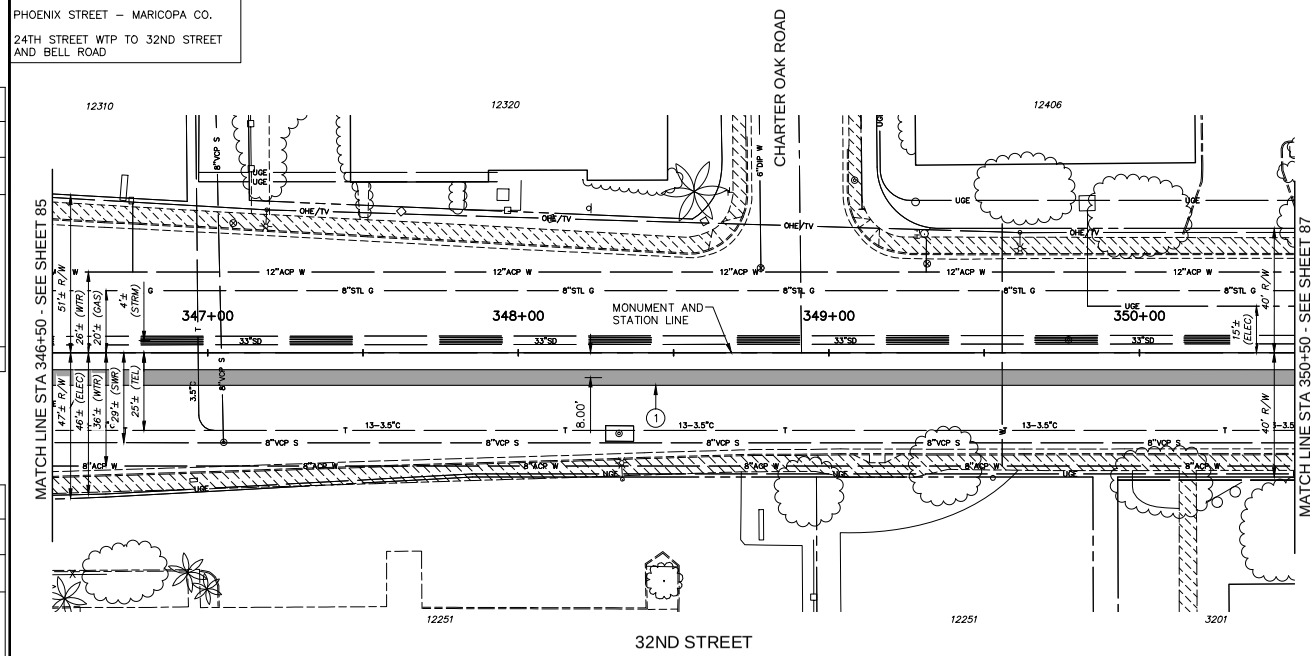
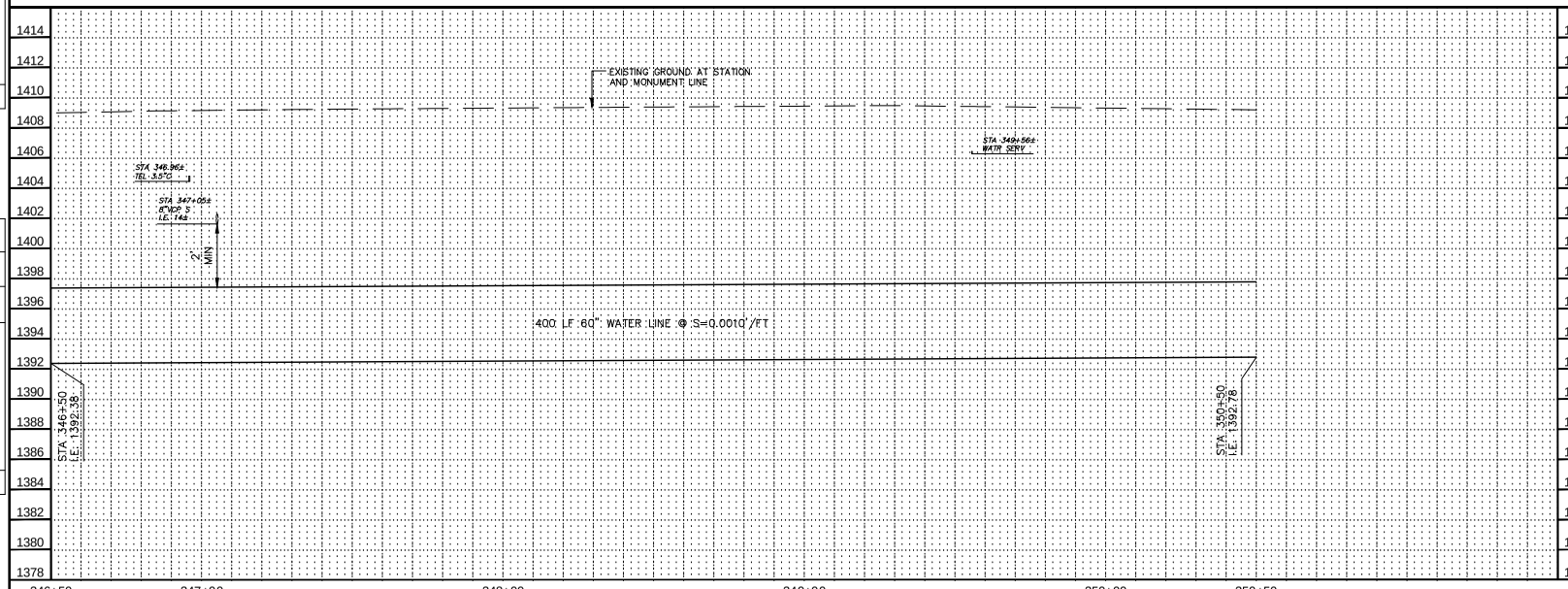
24TH STREET WTP TO 32ND STREET AND BELL ROAD





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CONSTRUCTION NOTES

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1	INSTALL 60" WATER LINE	LF	400

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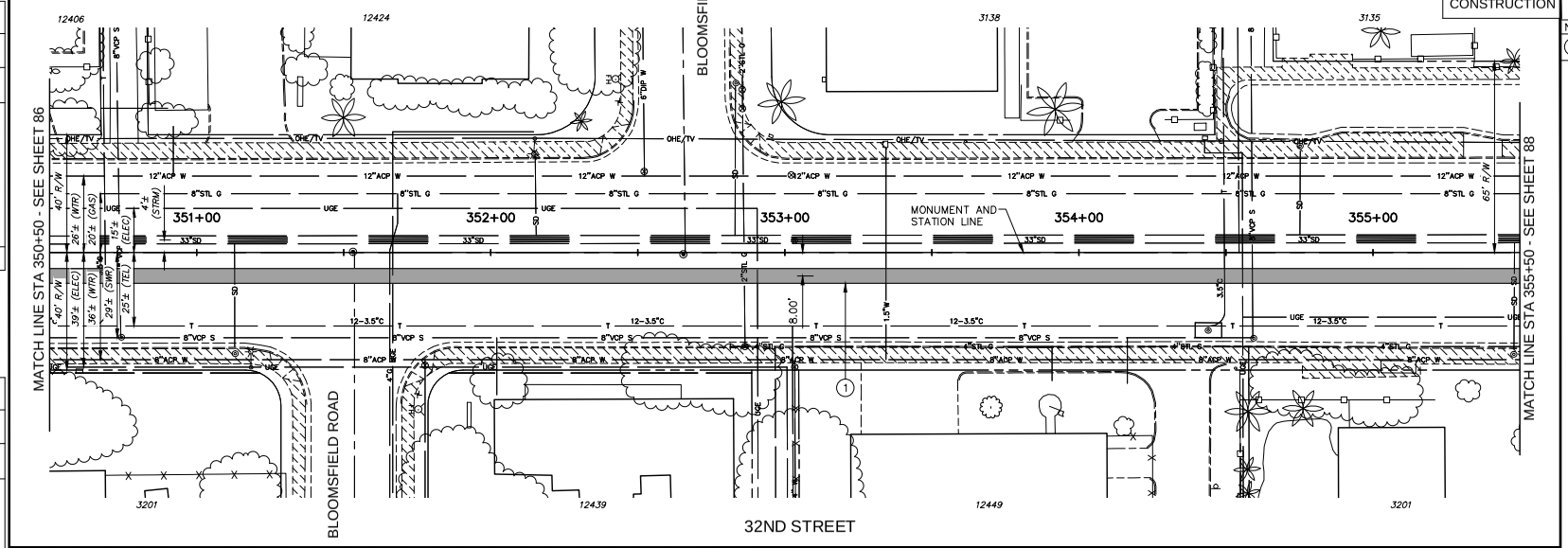

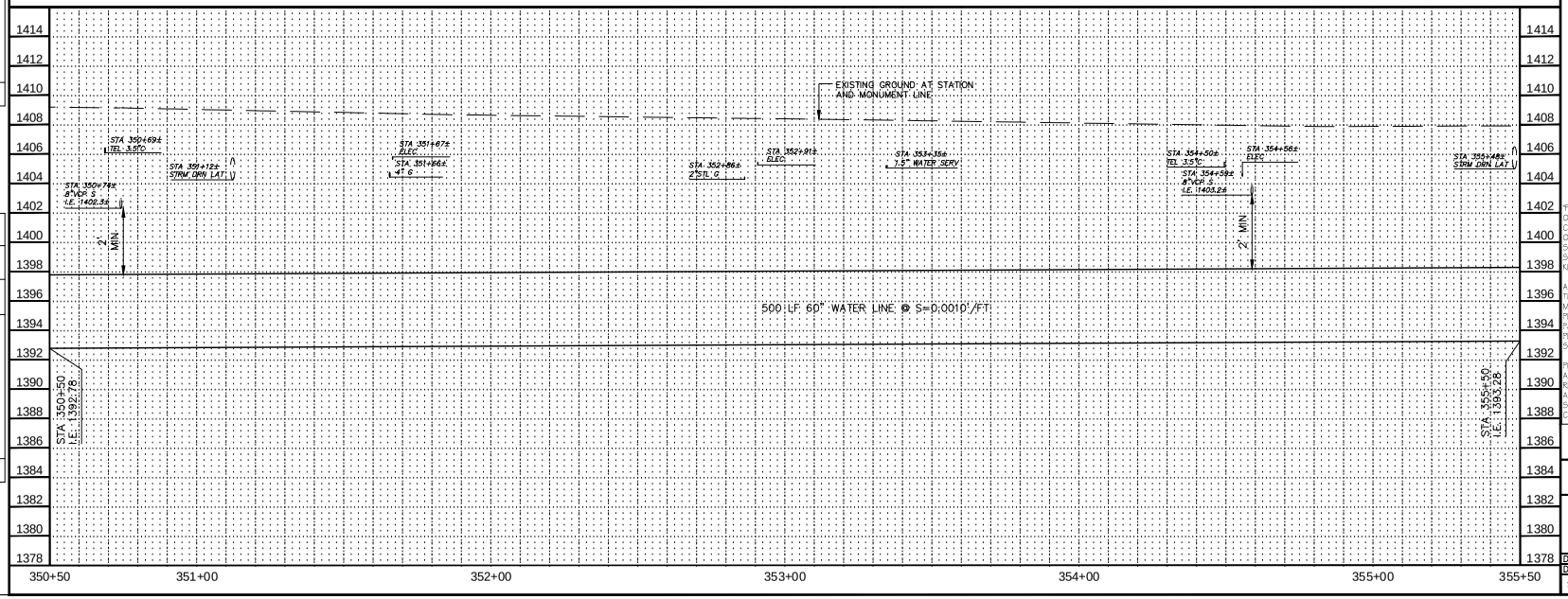

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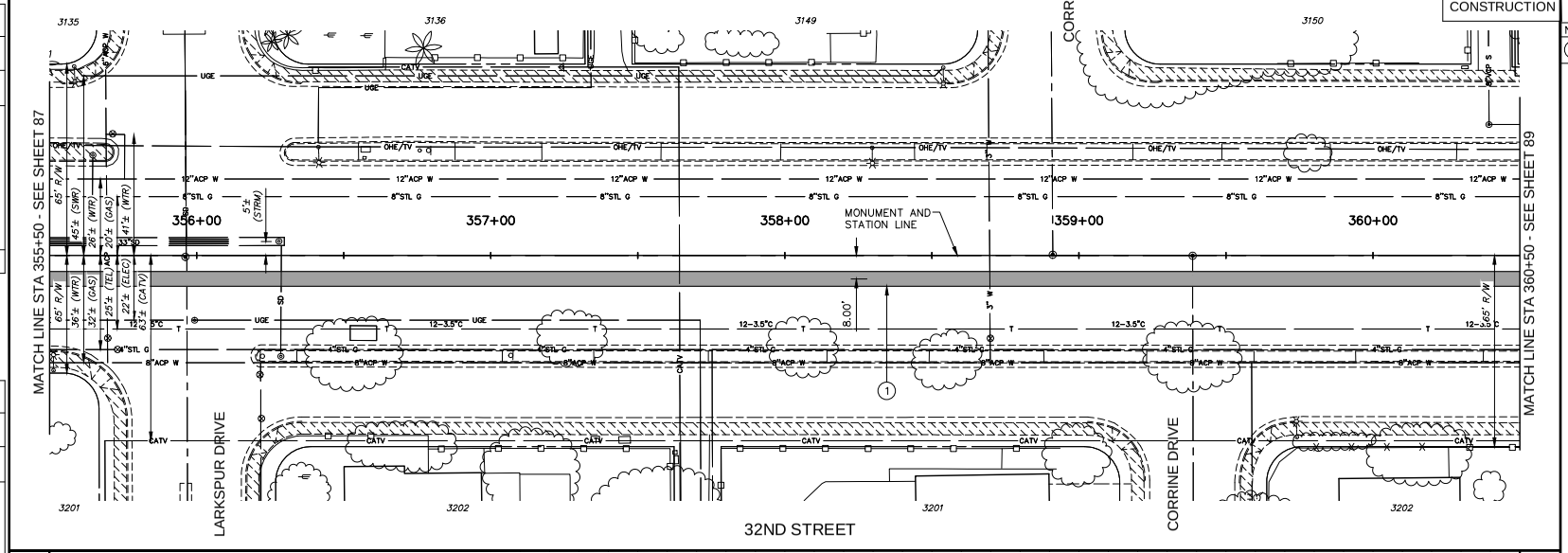

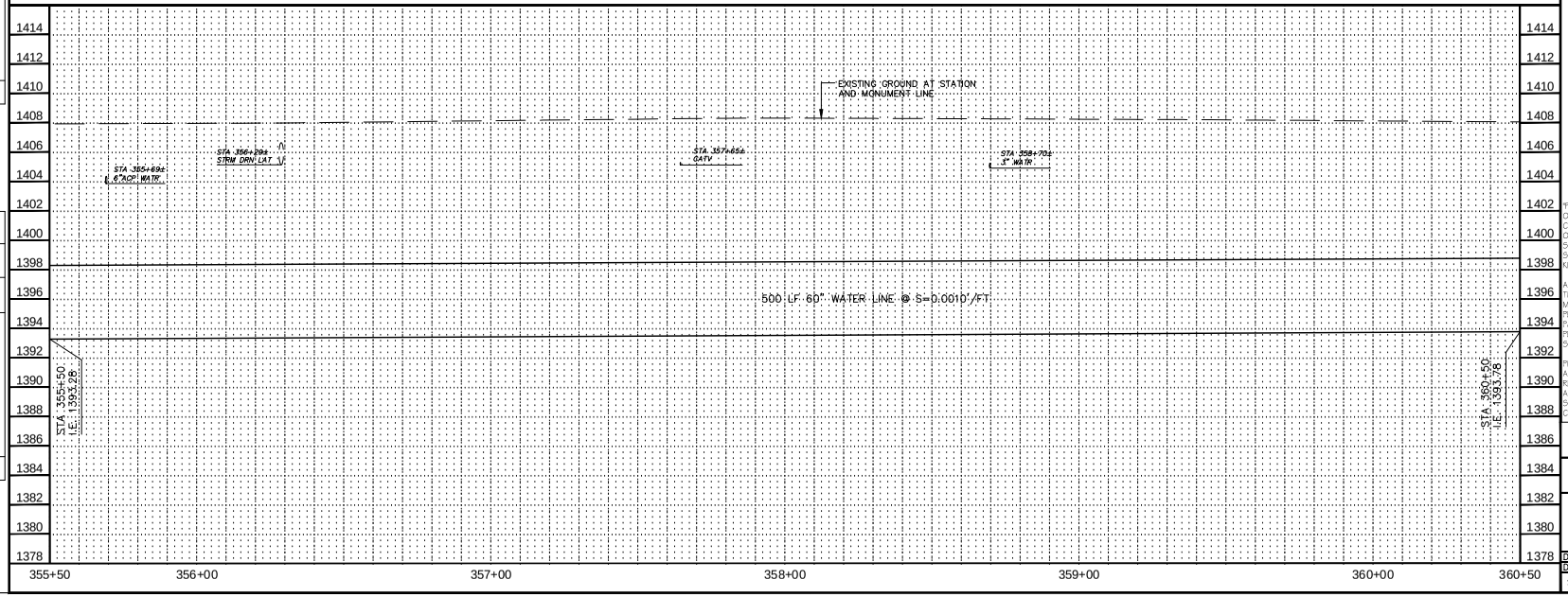

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			88	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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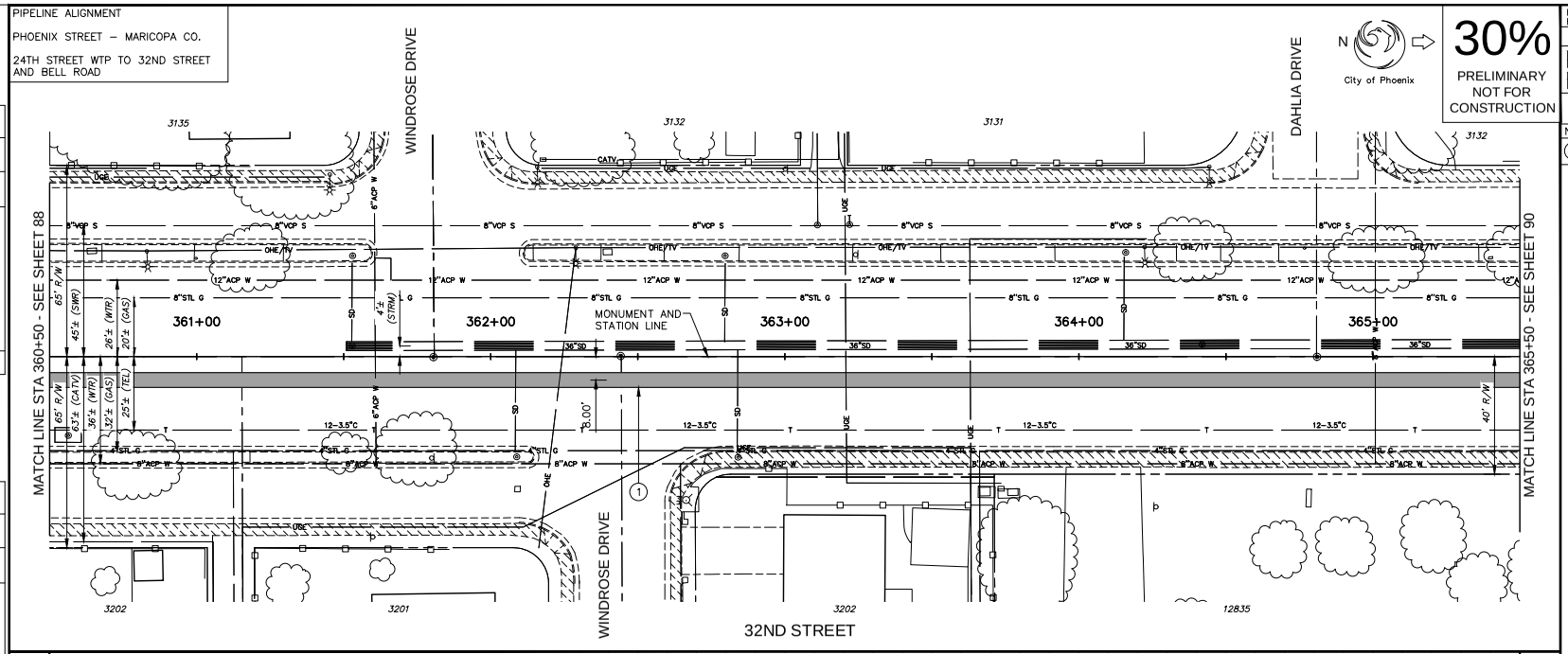
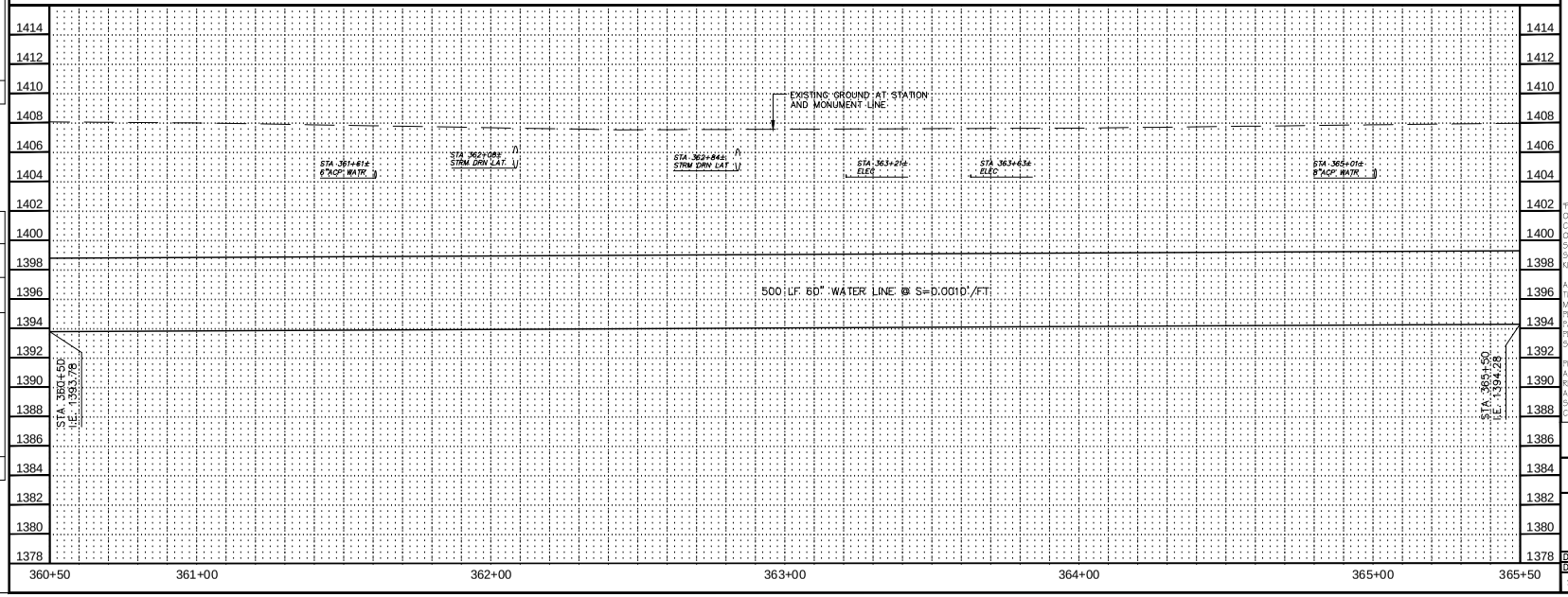
PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	89	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

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ARIZONA 811
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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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CONSTRUCTION NOTES

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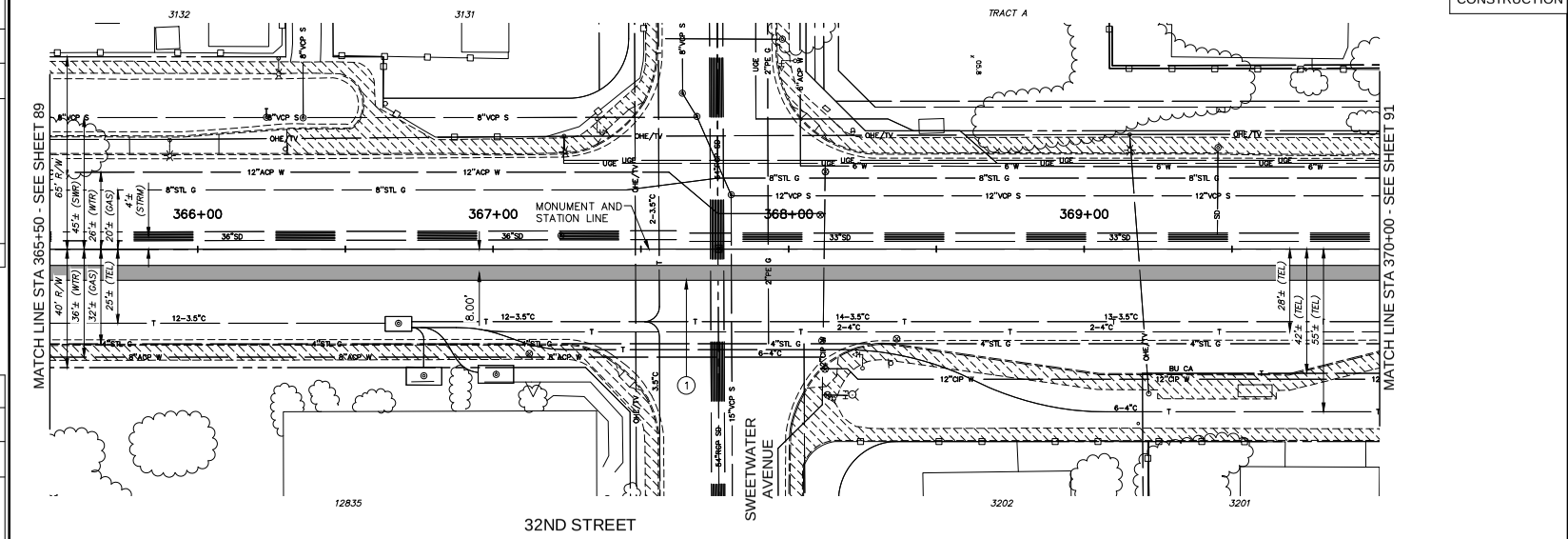

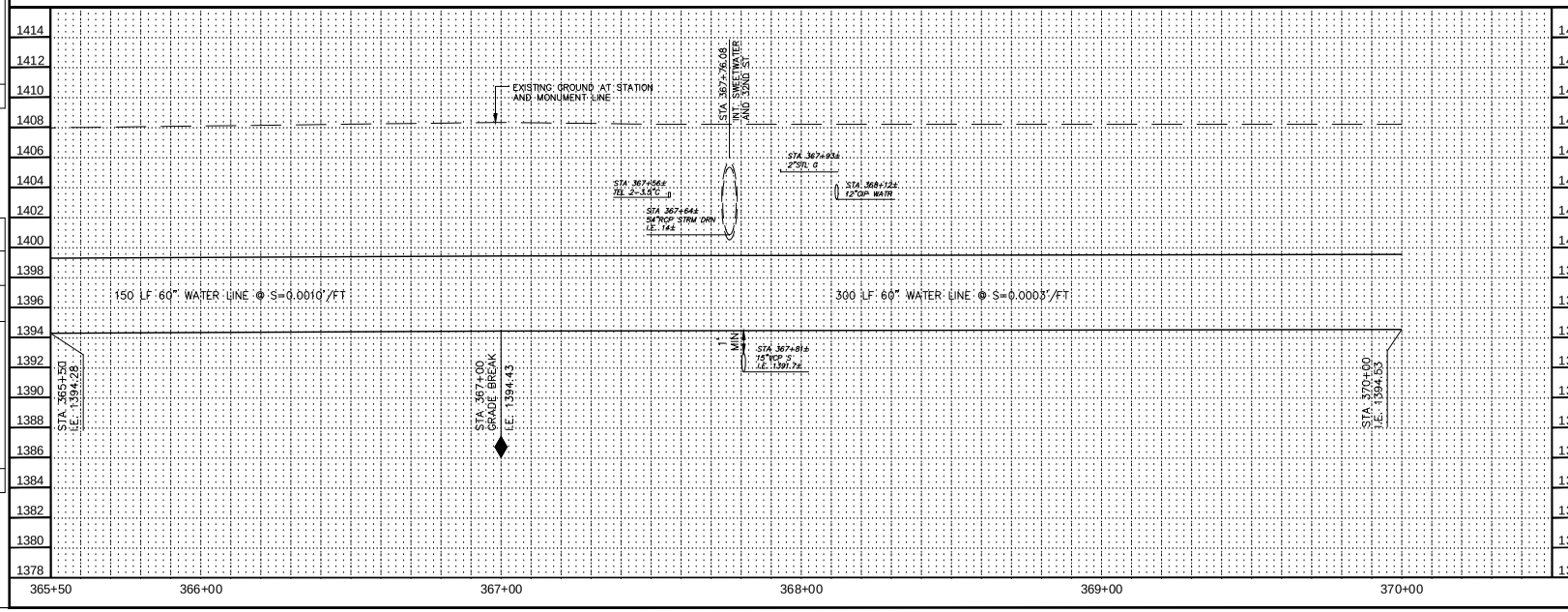

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

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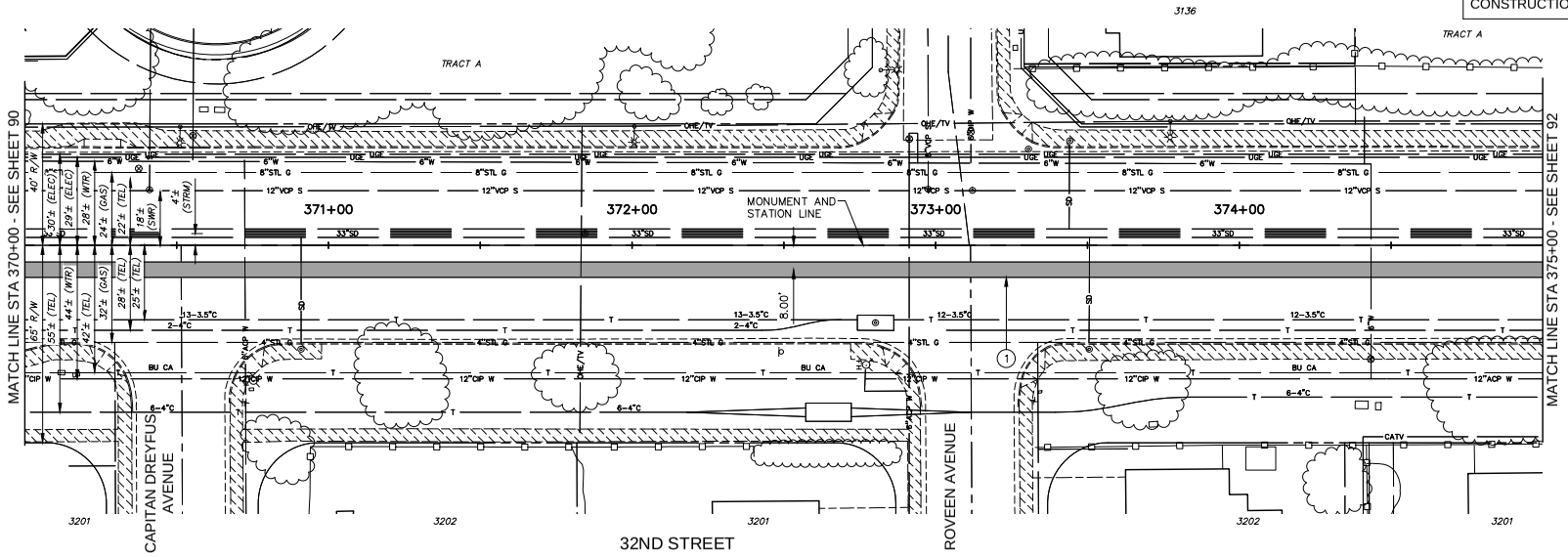

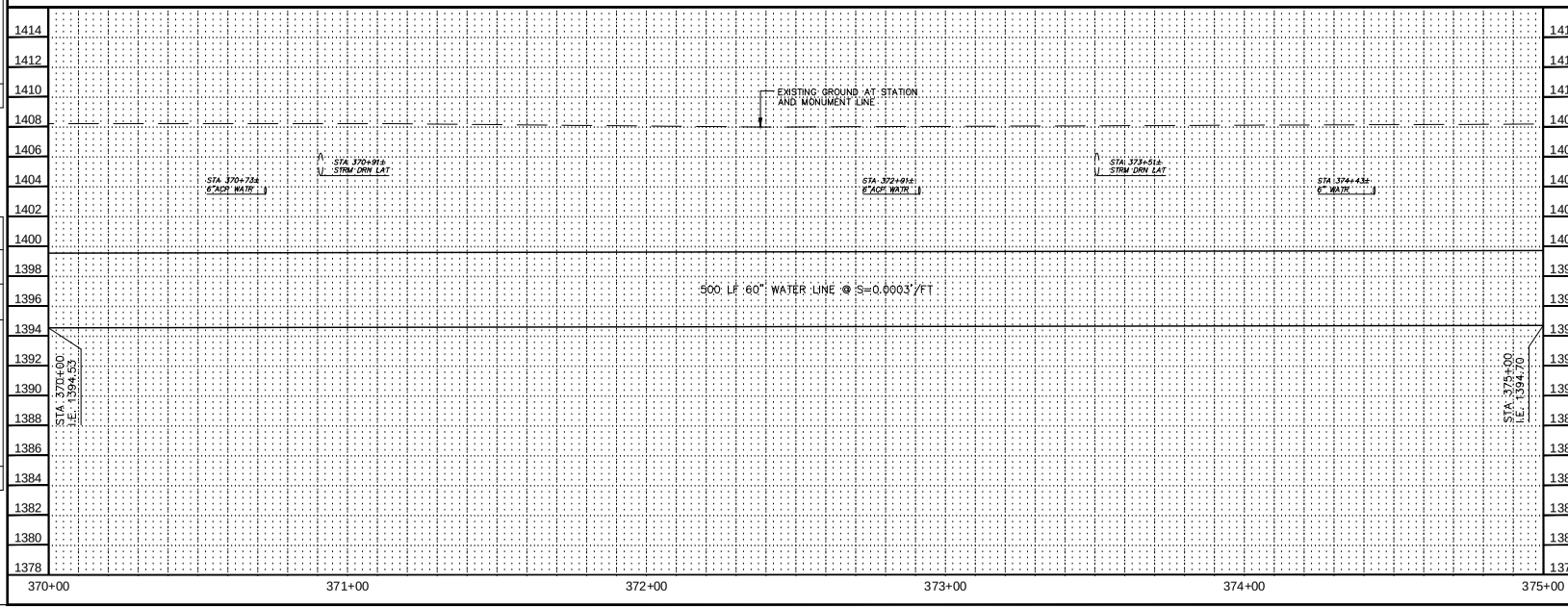

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

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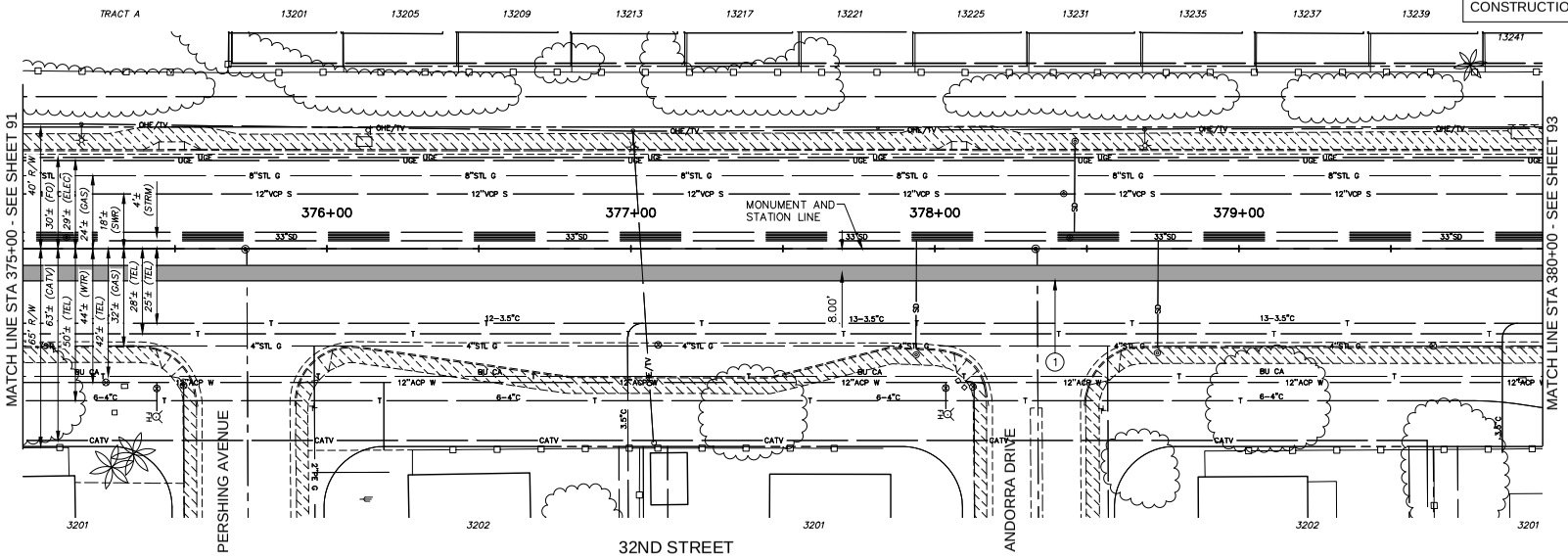

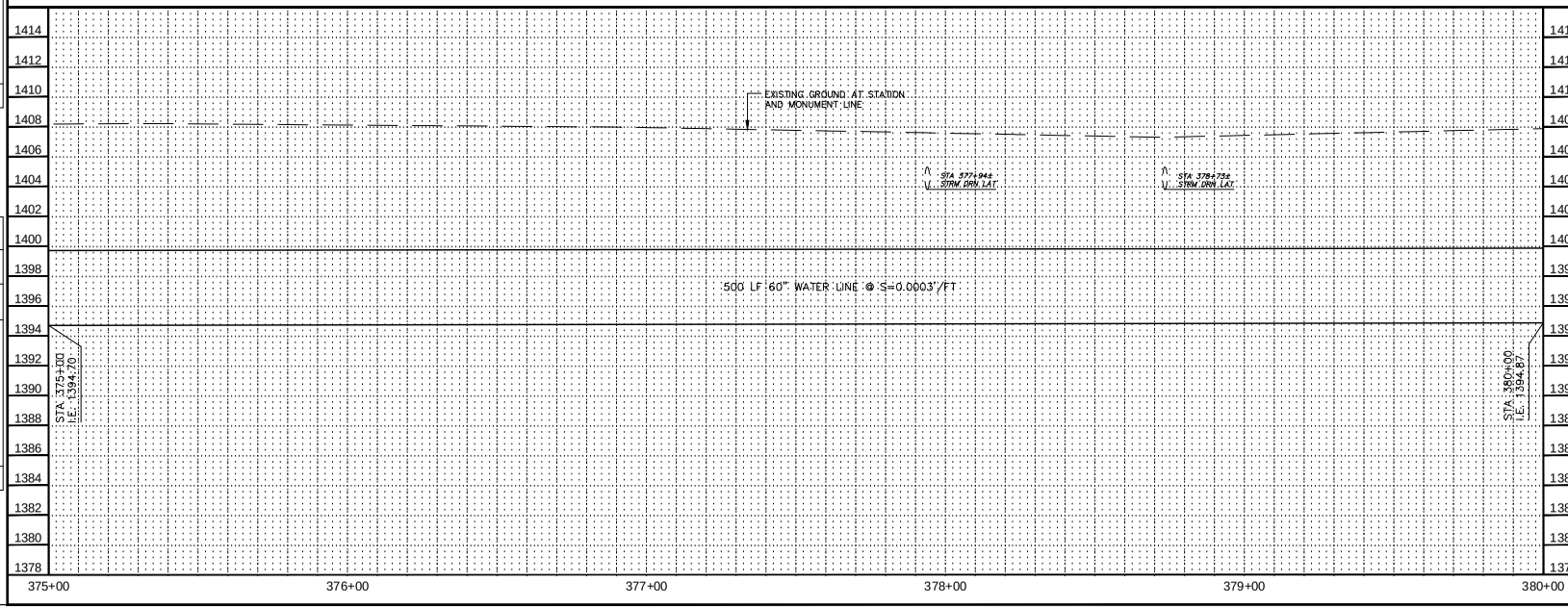

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

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WS85100047-2

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PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

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City of Phoenix

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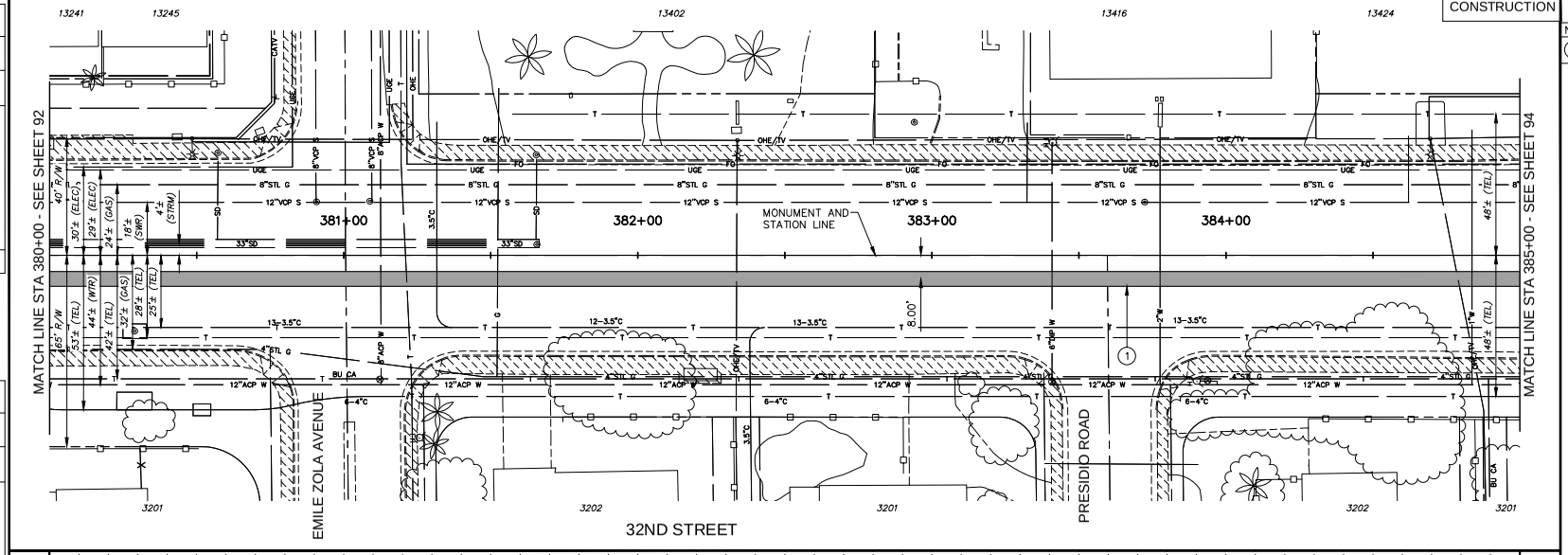

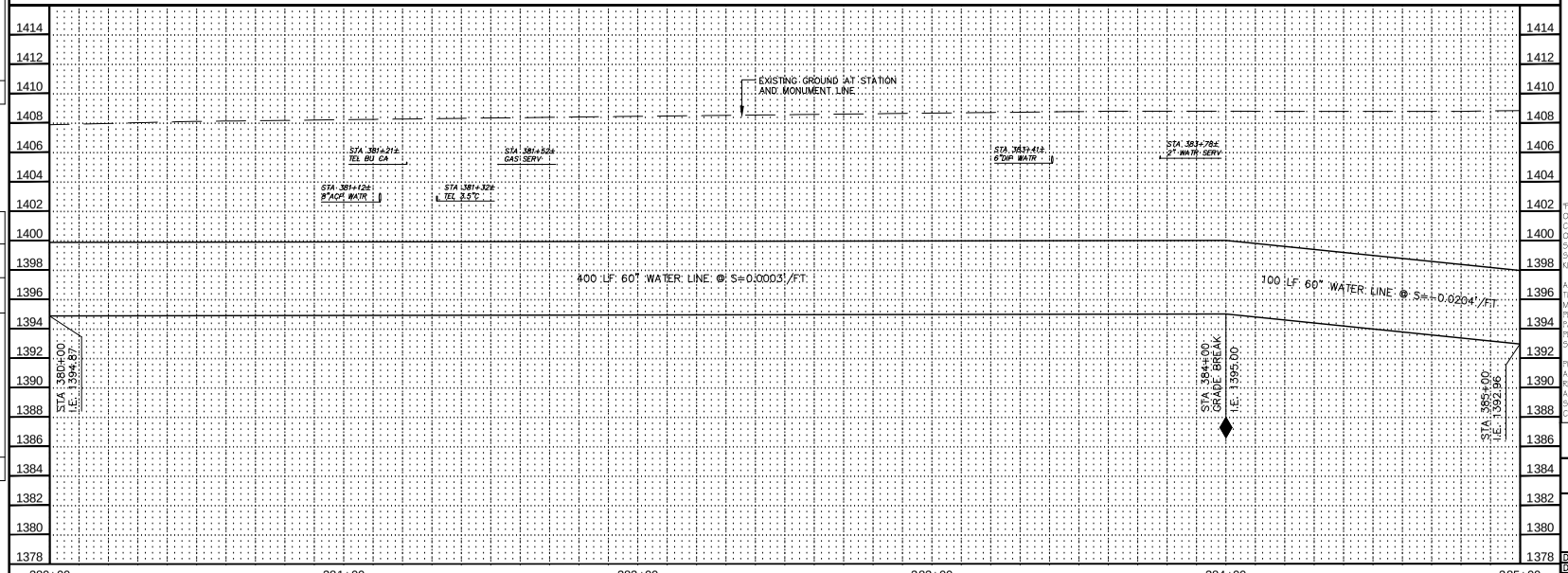

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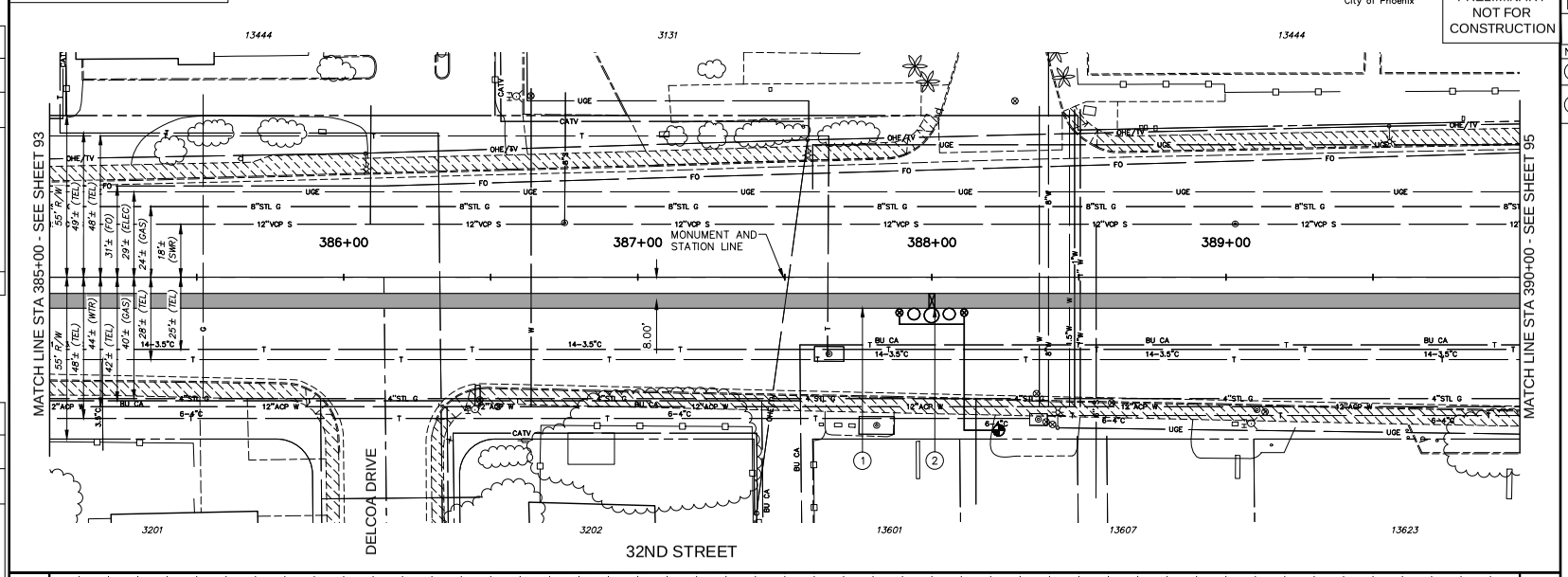

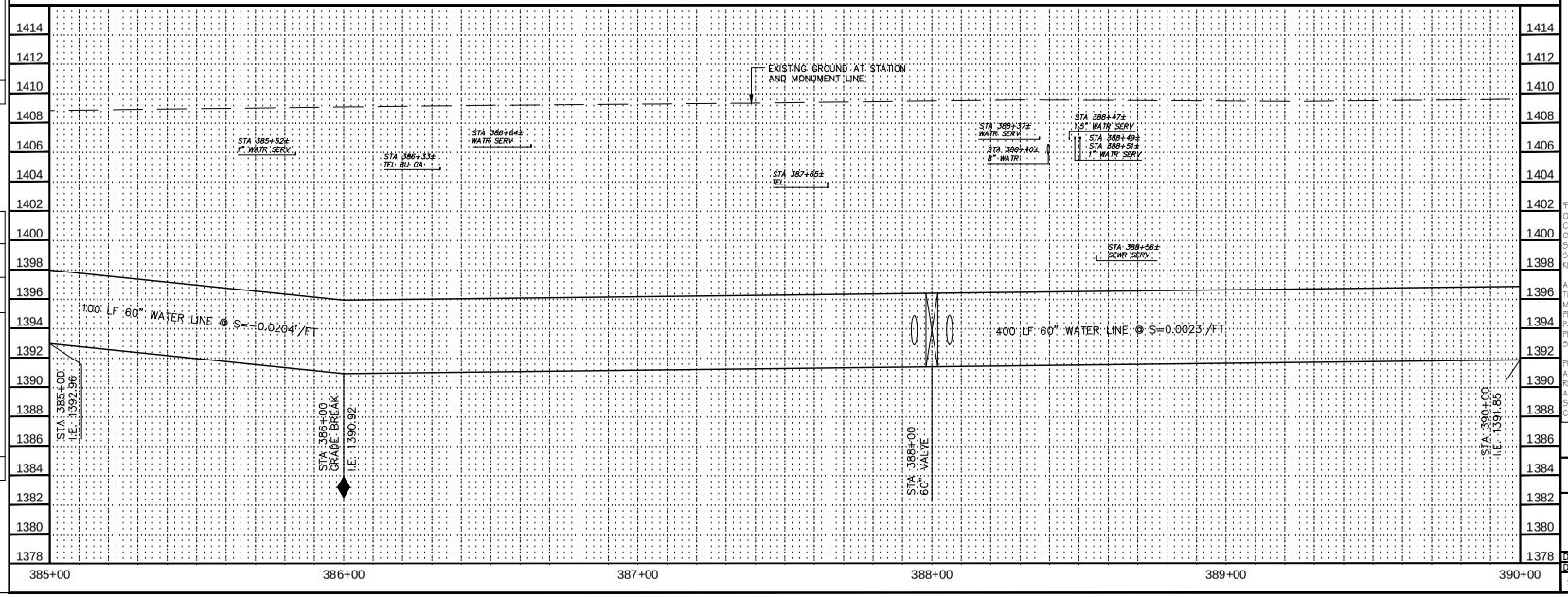

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

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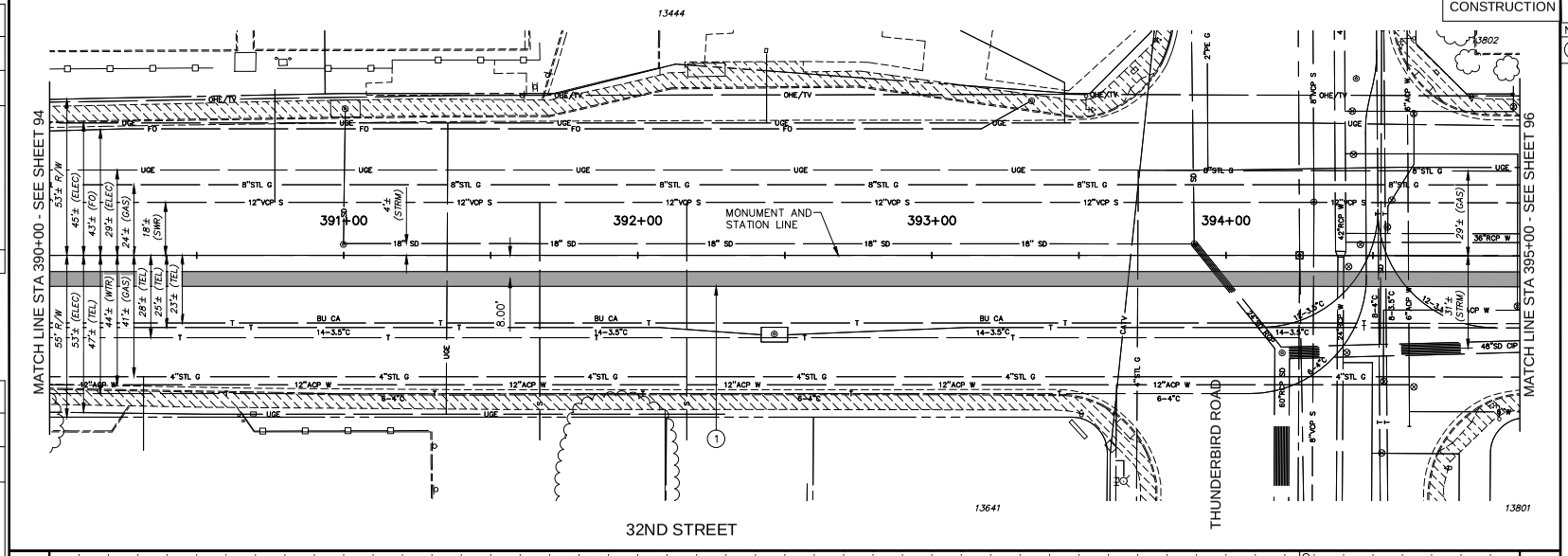

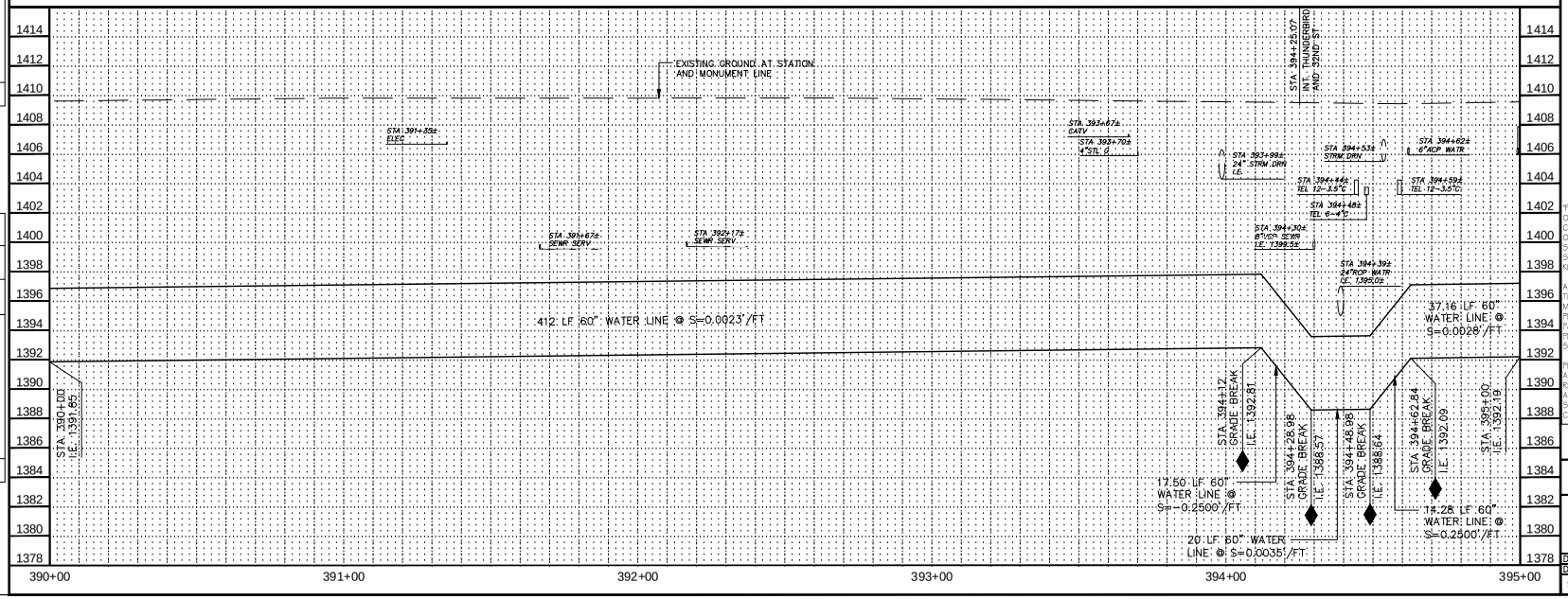

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			95	117

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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PEC PROJECT ENGINEERING CONSULTANTS
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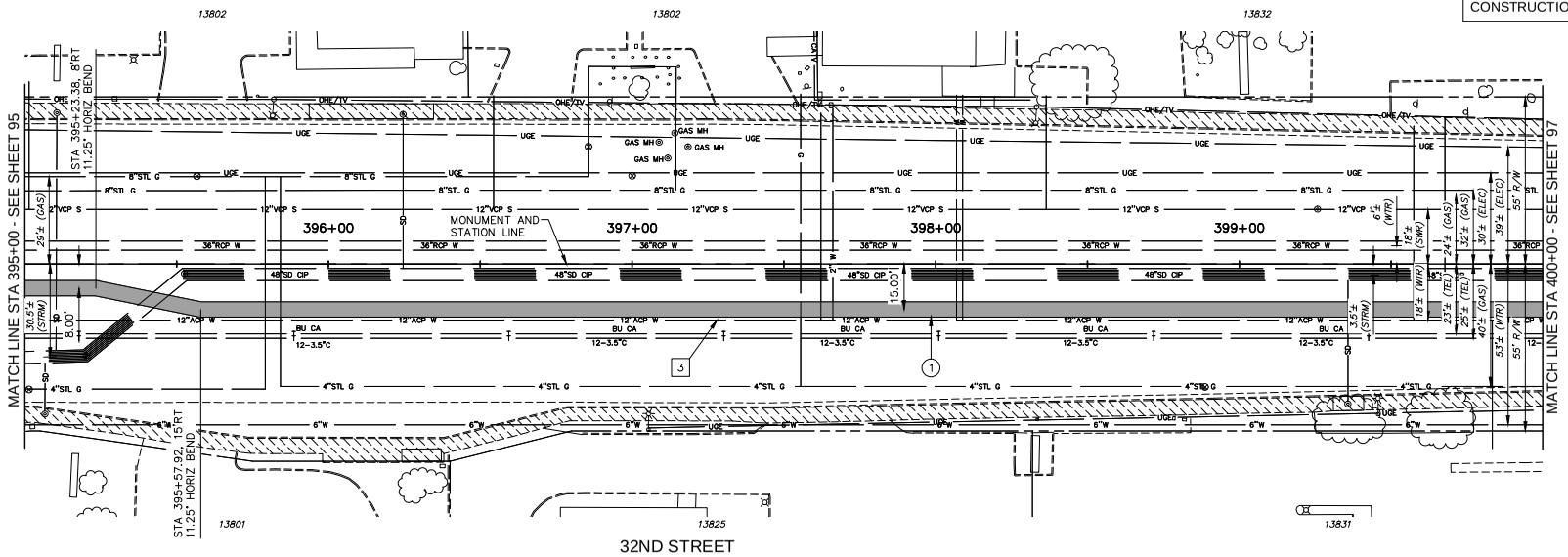
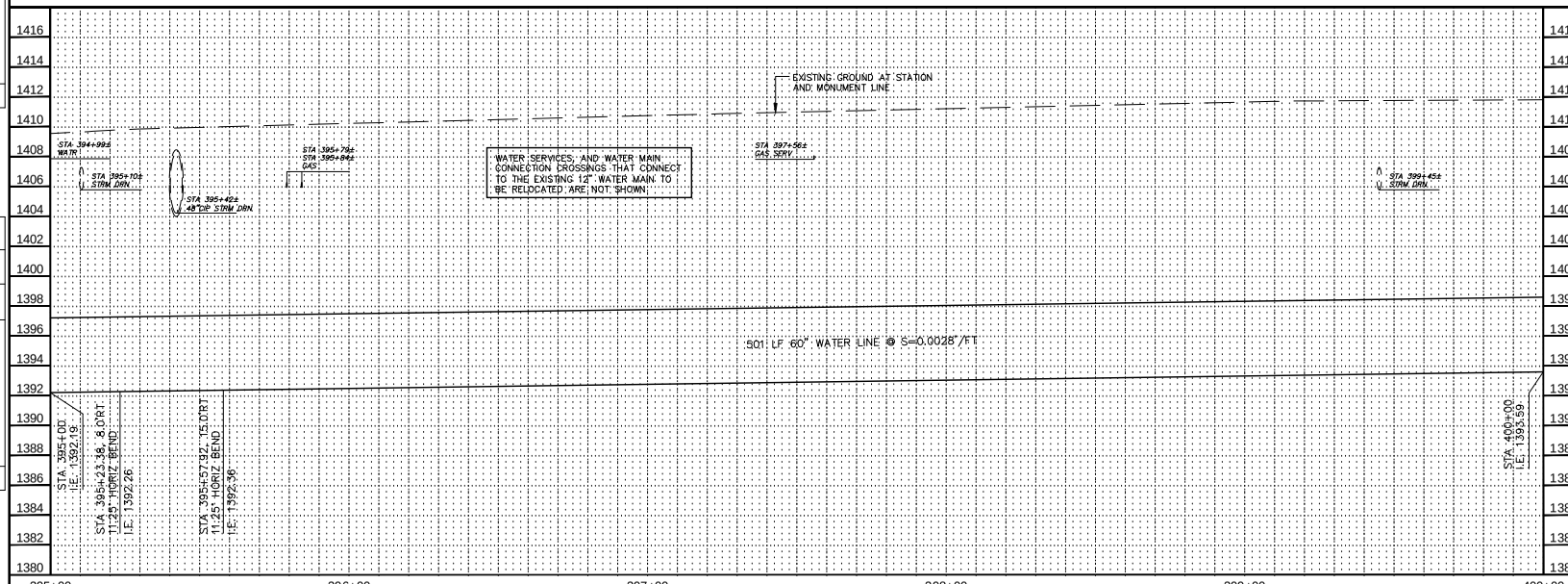
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE 12" ACP WATER LINE	LF	450

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ARIZONA811
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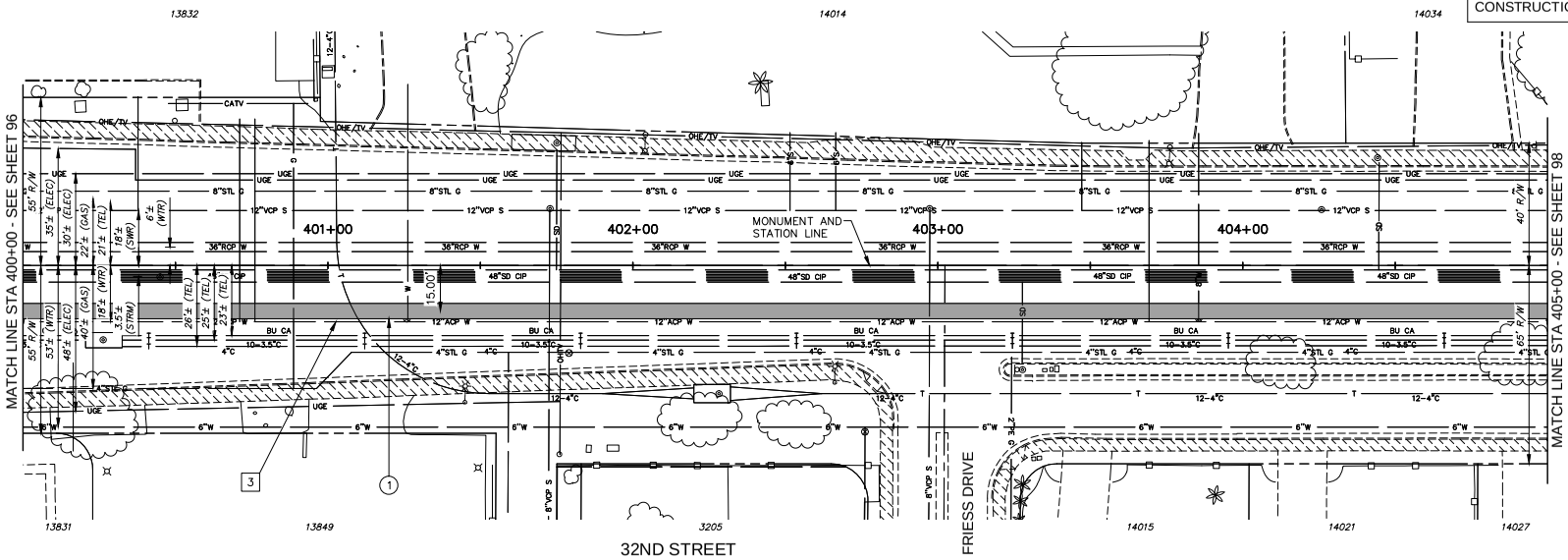

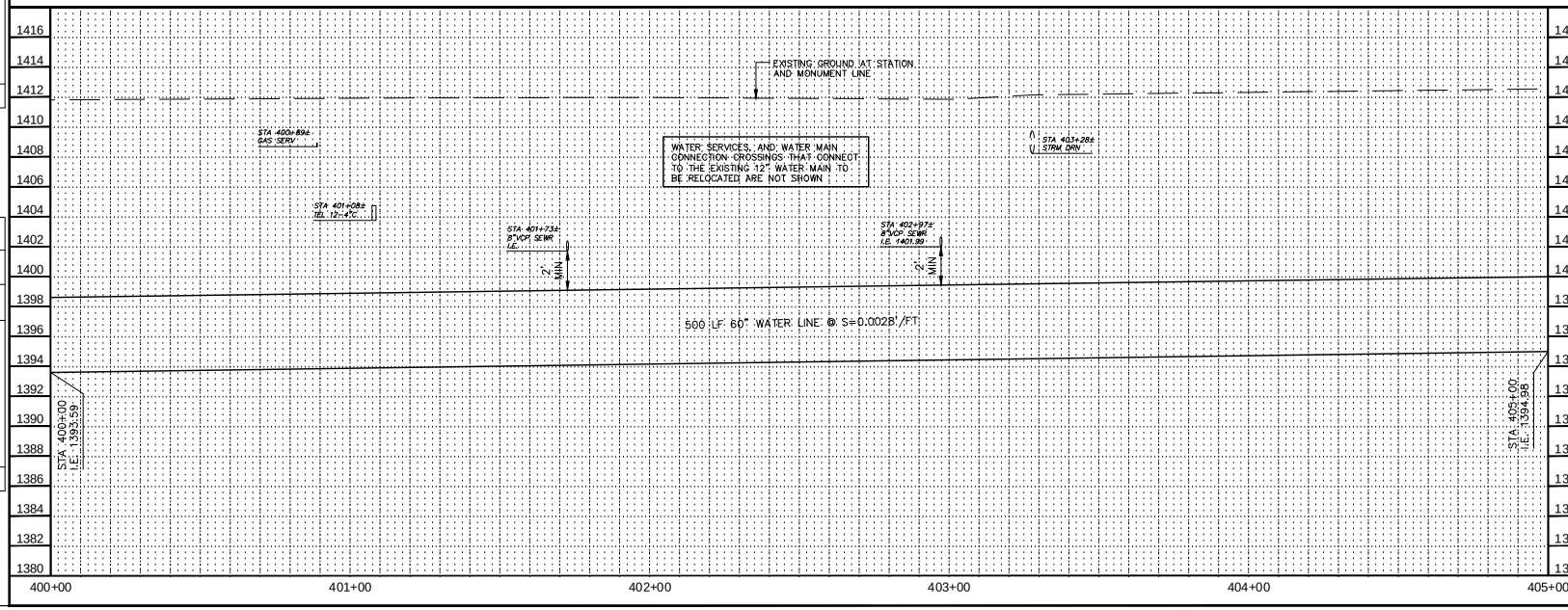

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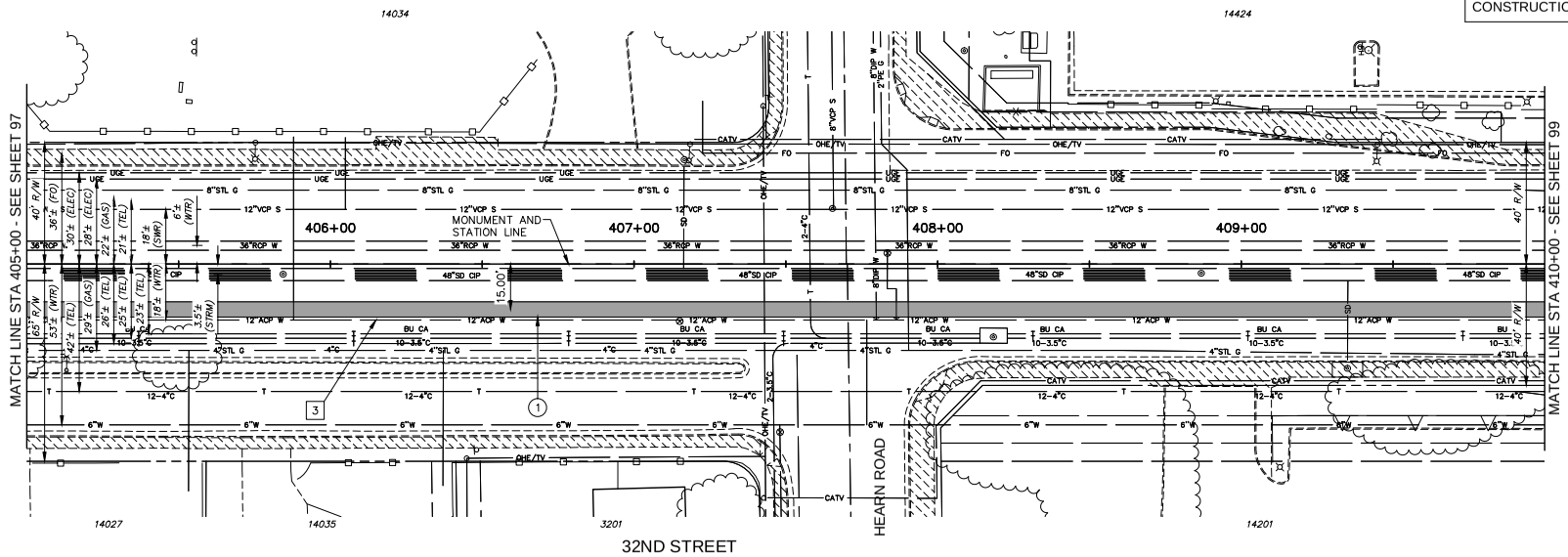

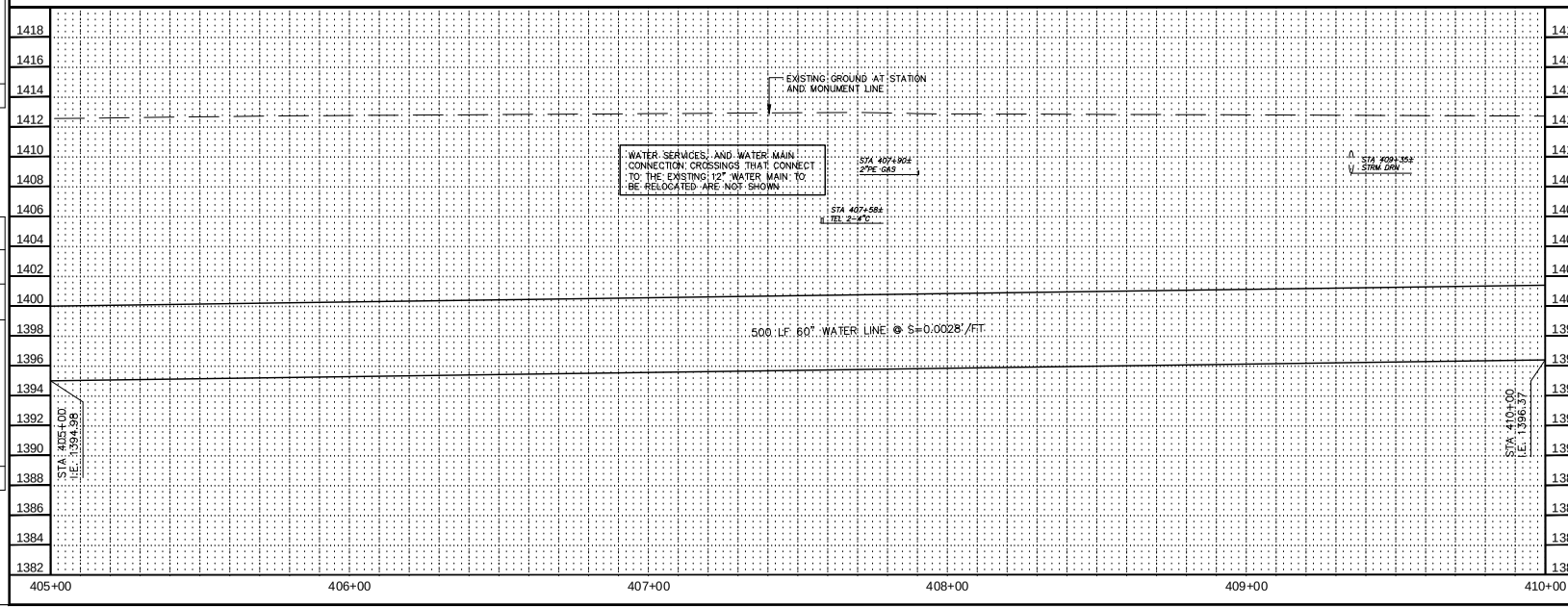

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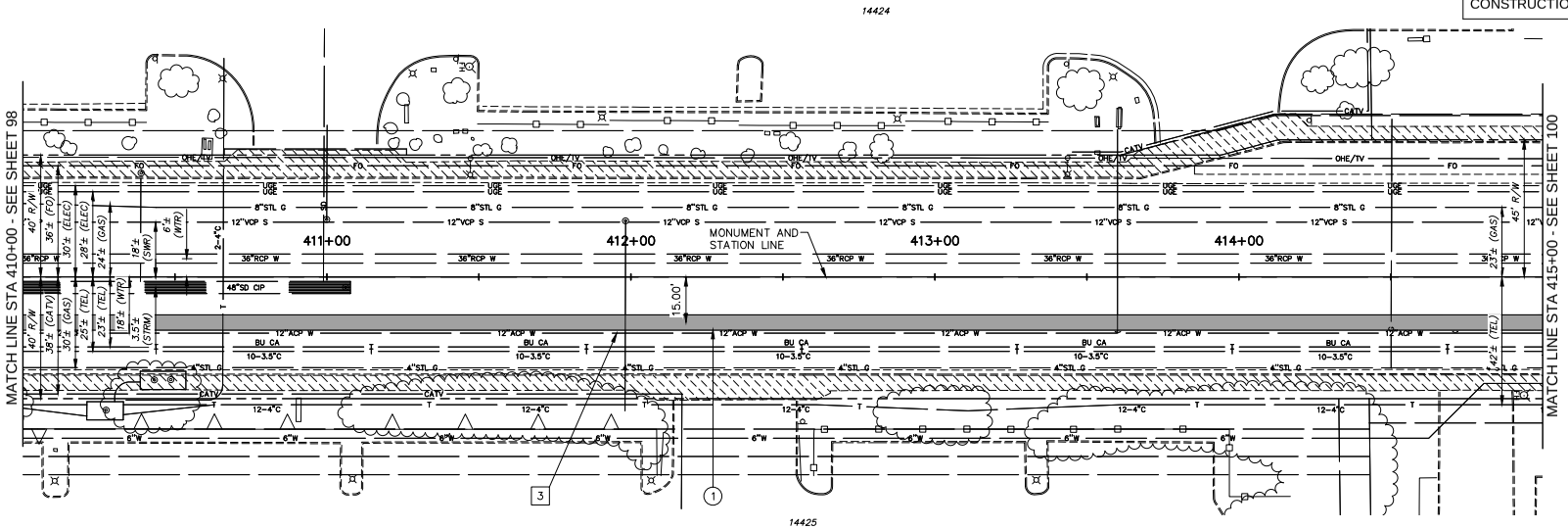

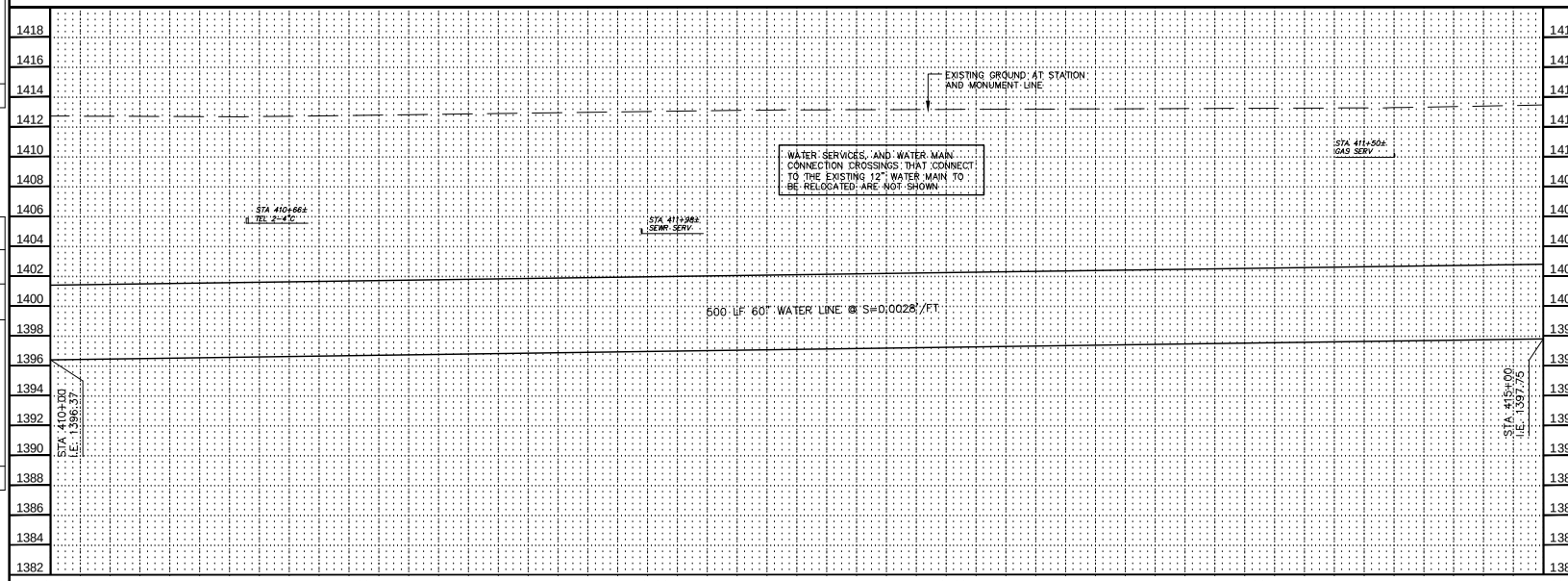

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
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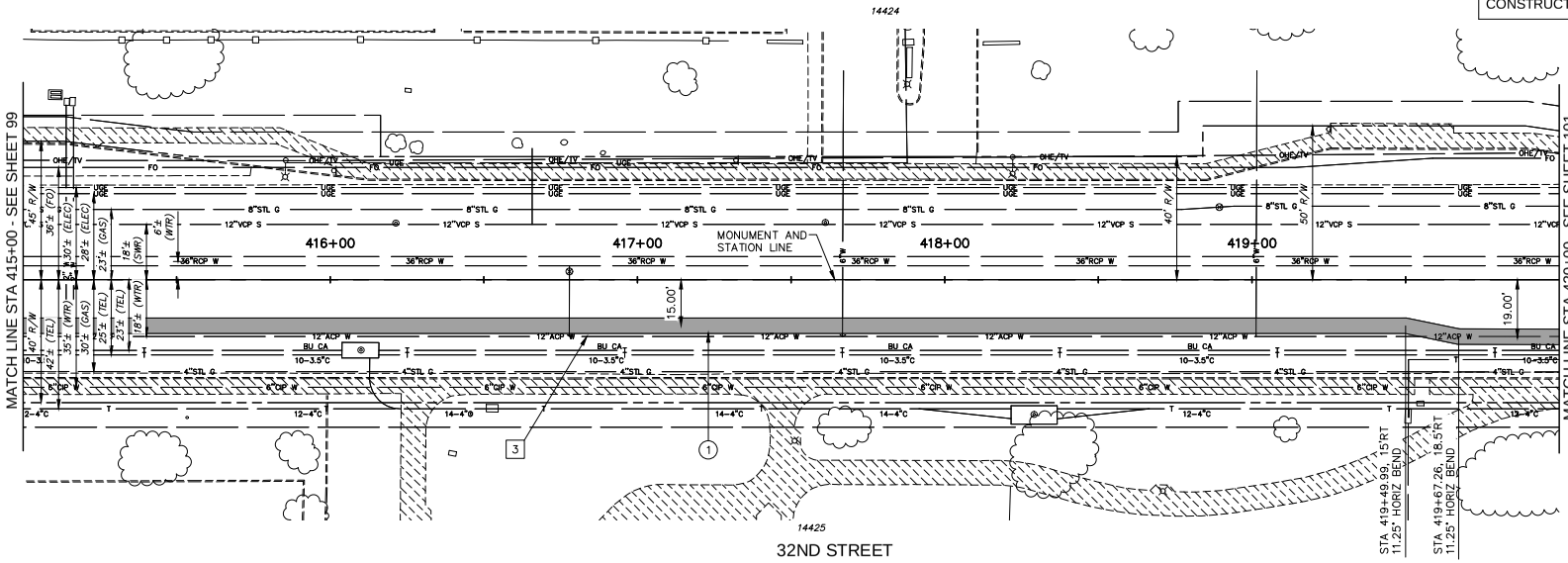

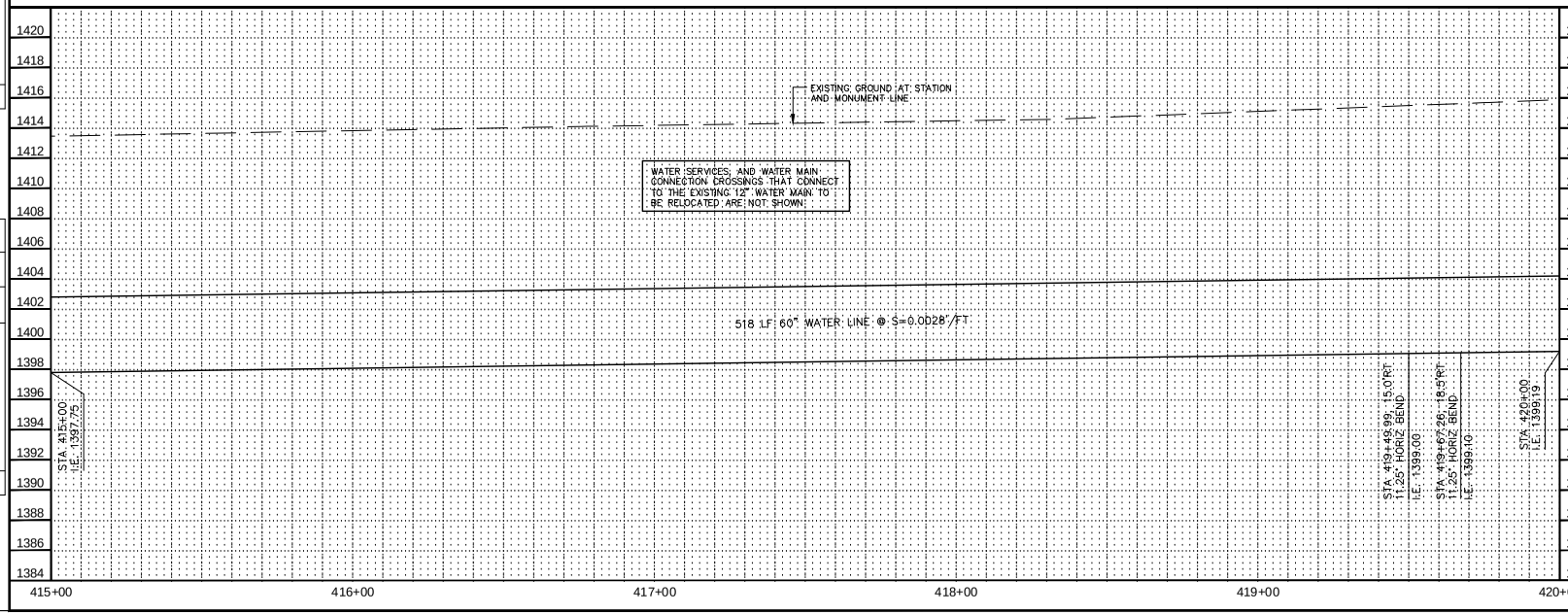

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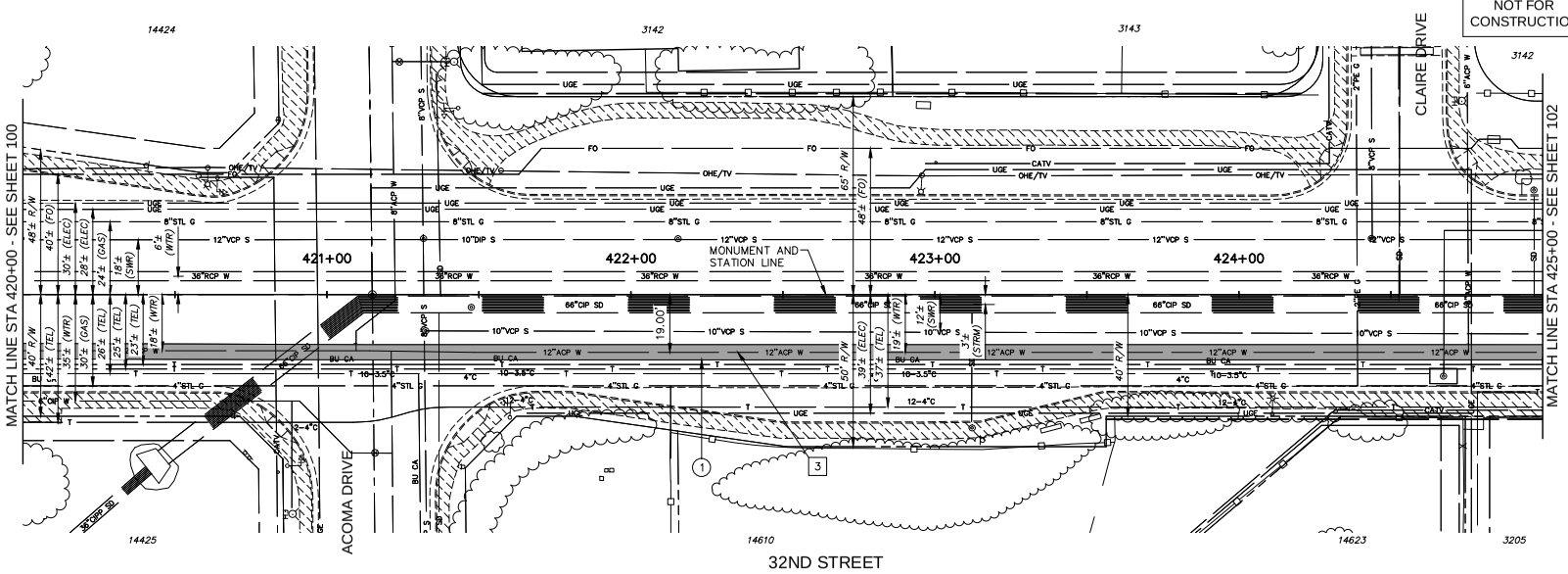

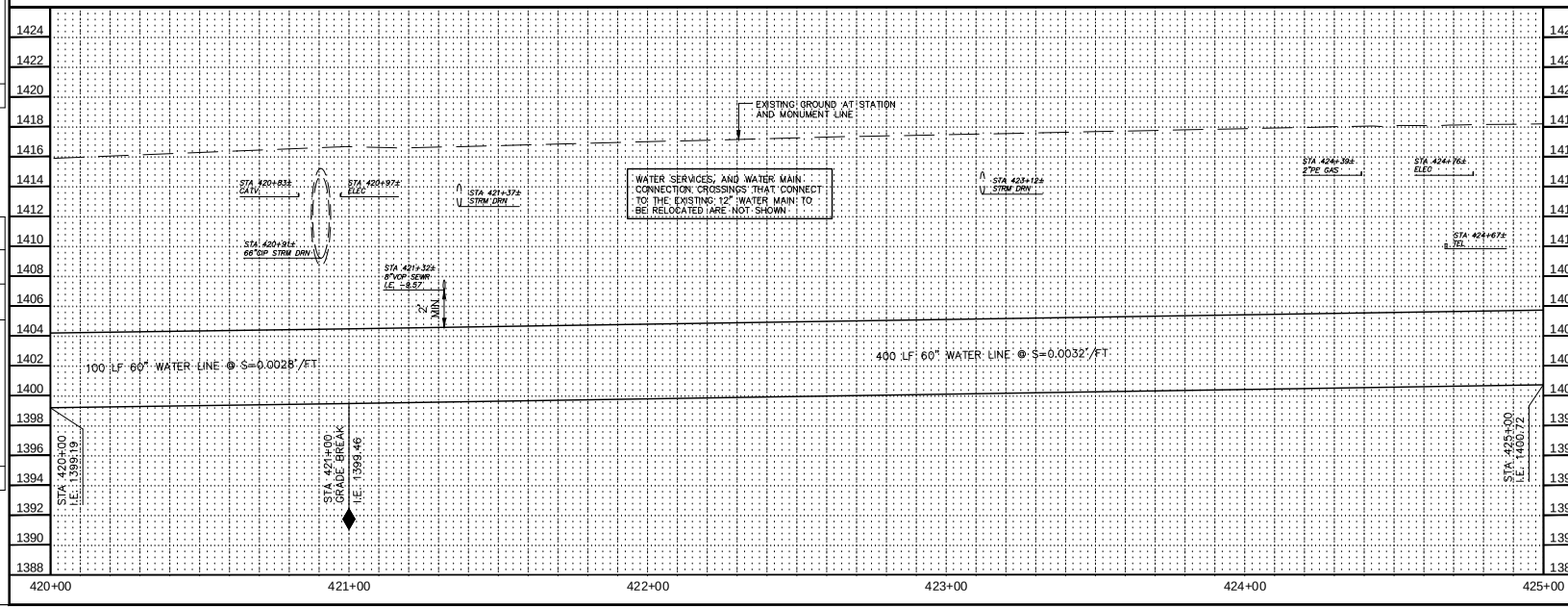

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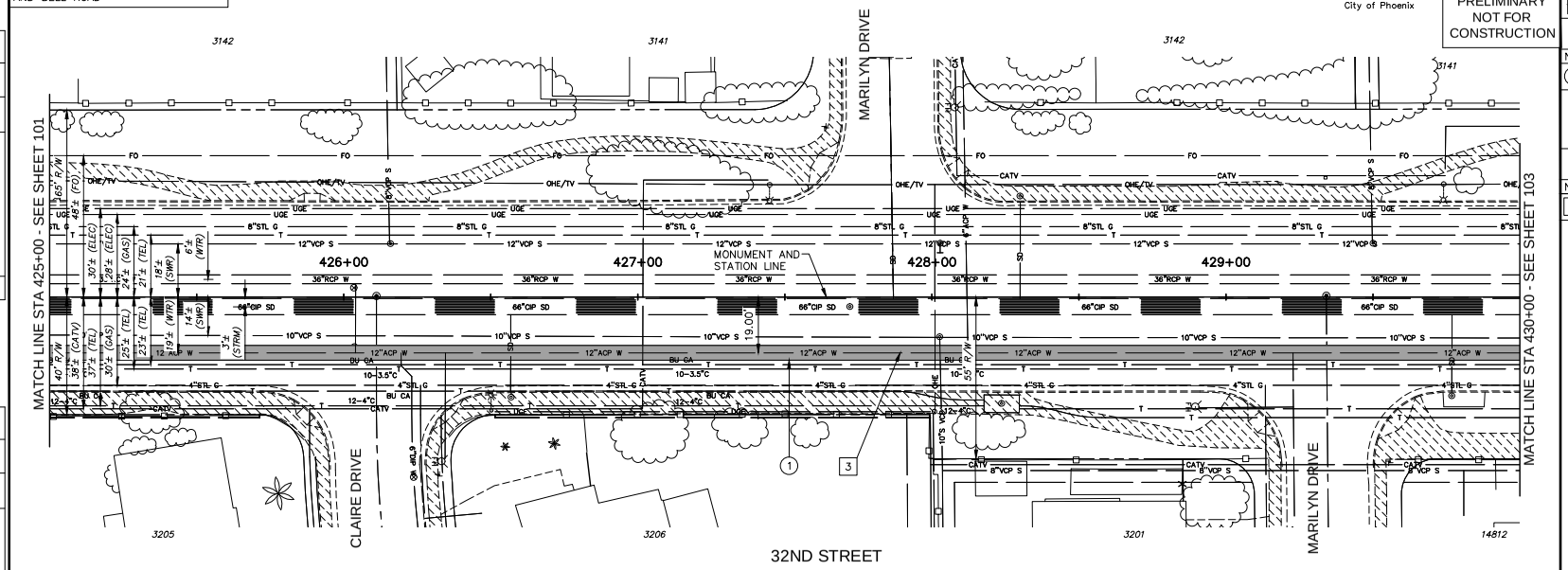

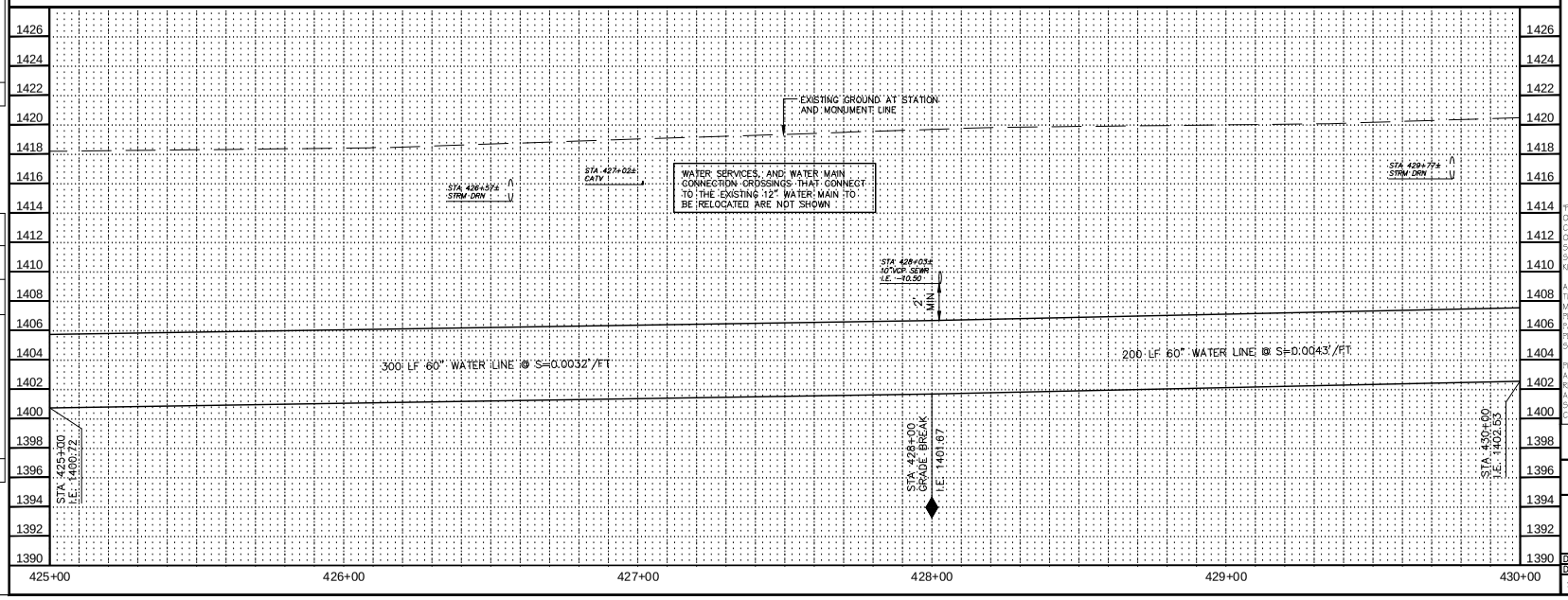

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE 12" ACP WATER LINE	LF	500

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			102	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

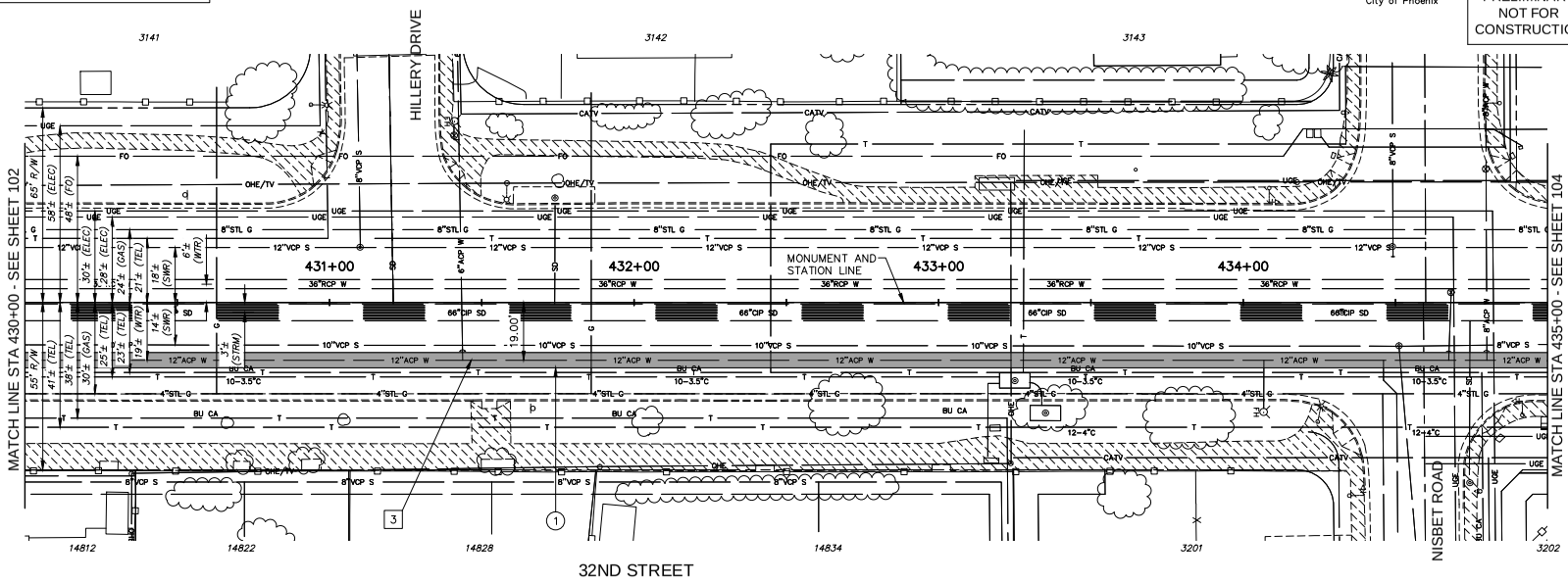
24TH STREET WTP TO 32ND STREET AND BELL ROAD

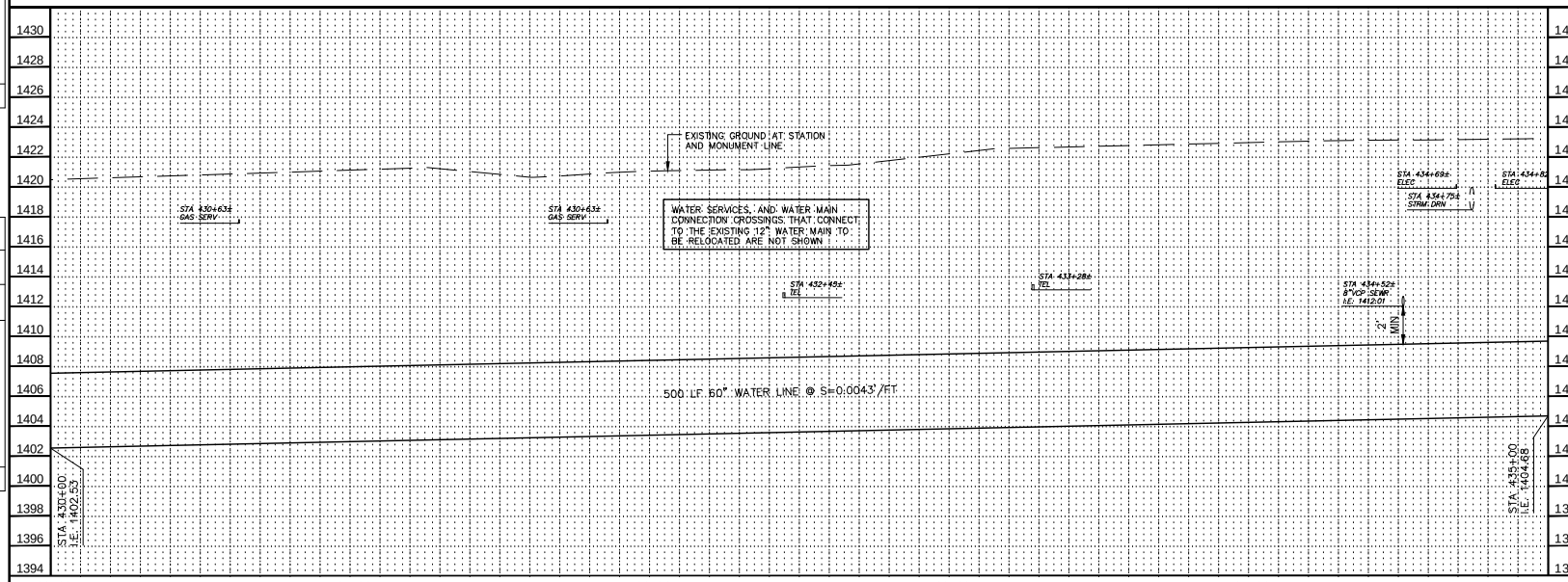
N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	103	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE 12" ACP WATER LINE	LF	500

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

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DATE: 05/18	DATE: 05/18	DATE: 05/18		
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PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

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PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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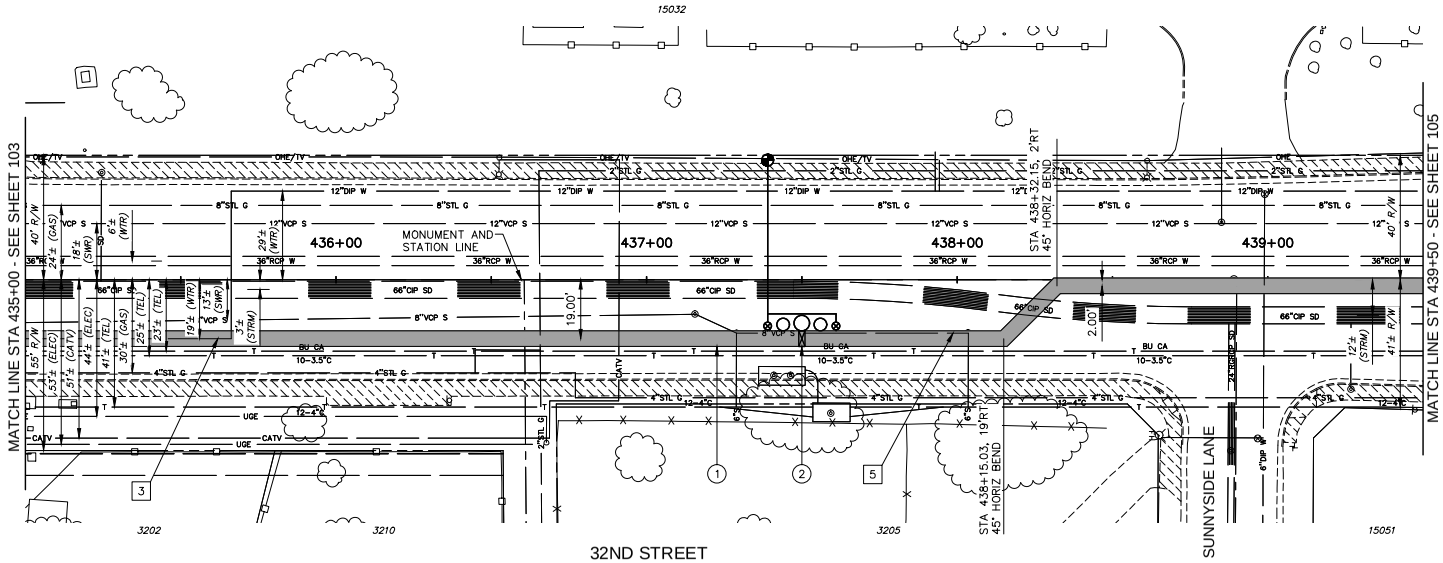

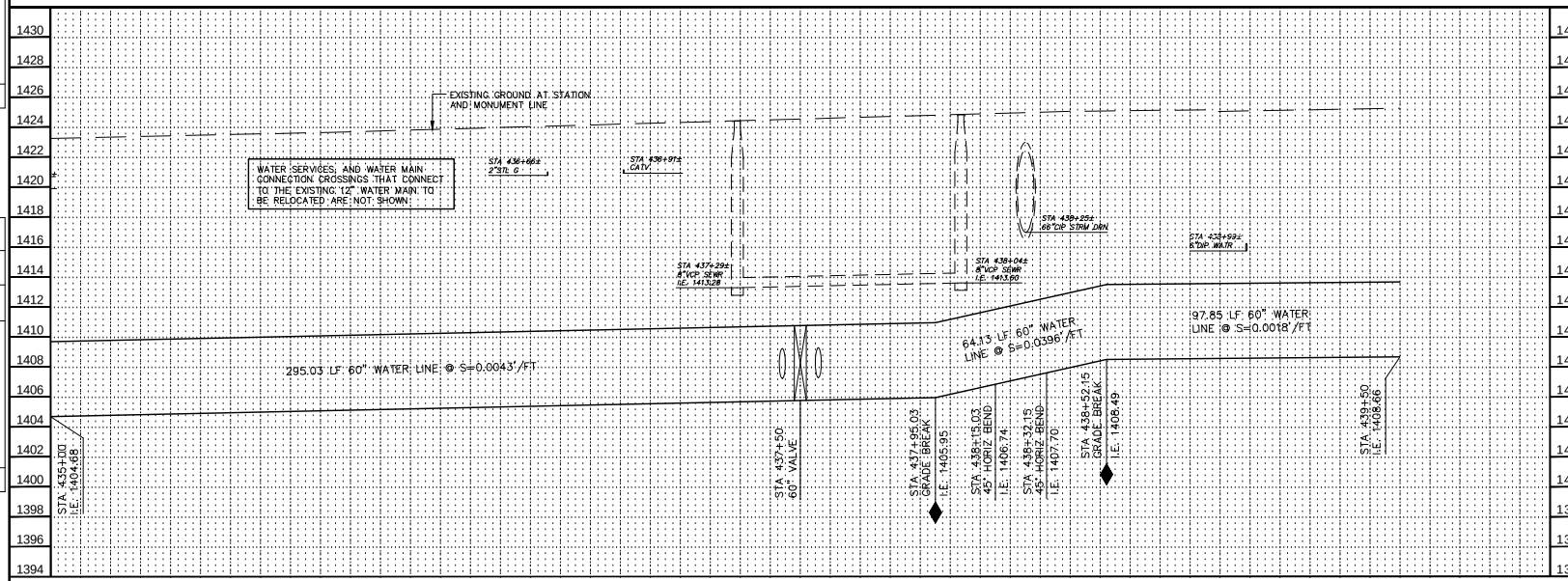

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	457
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
3	RELOCATE 12" ACP WATER LINE	LF	77
5	RELOCATE 8" VCP SEWER LINE	LF	96

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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REVISION BY CITY OF PHOENIX

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

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Fax: (602) 906-3080

CONSTRUCTION NOTES

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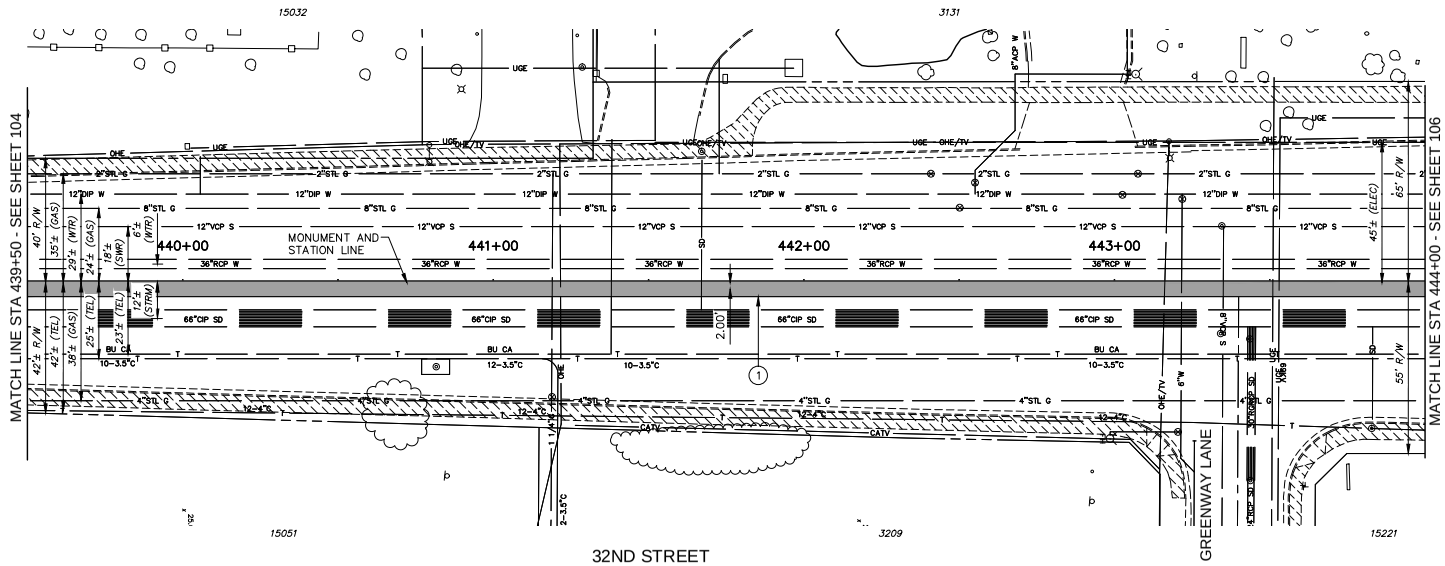
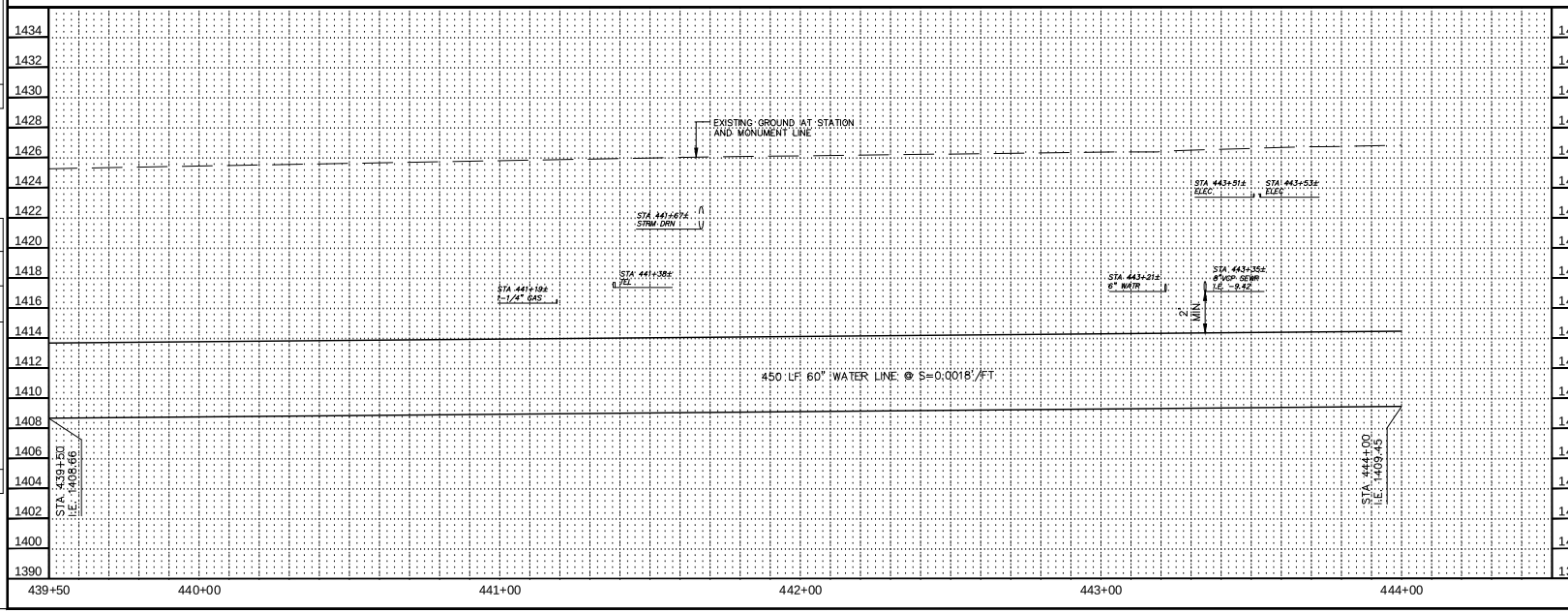
1	INSTALL 60" WATER LINE	LF	500





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET
WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

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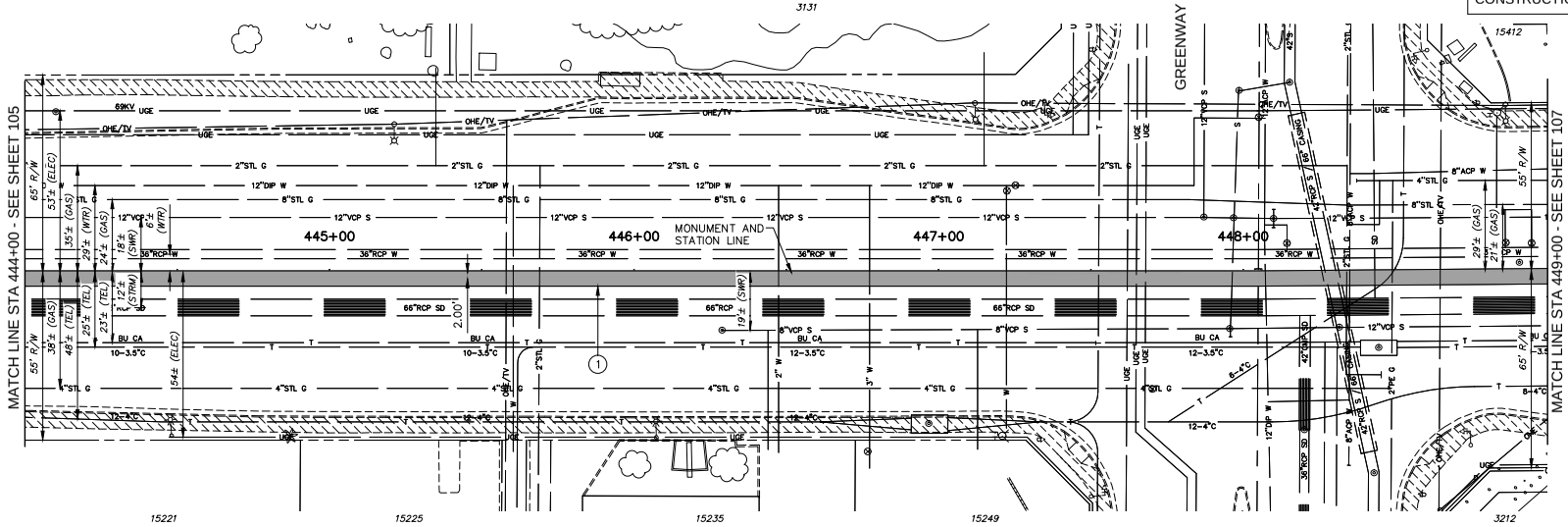

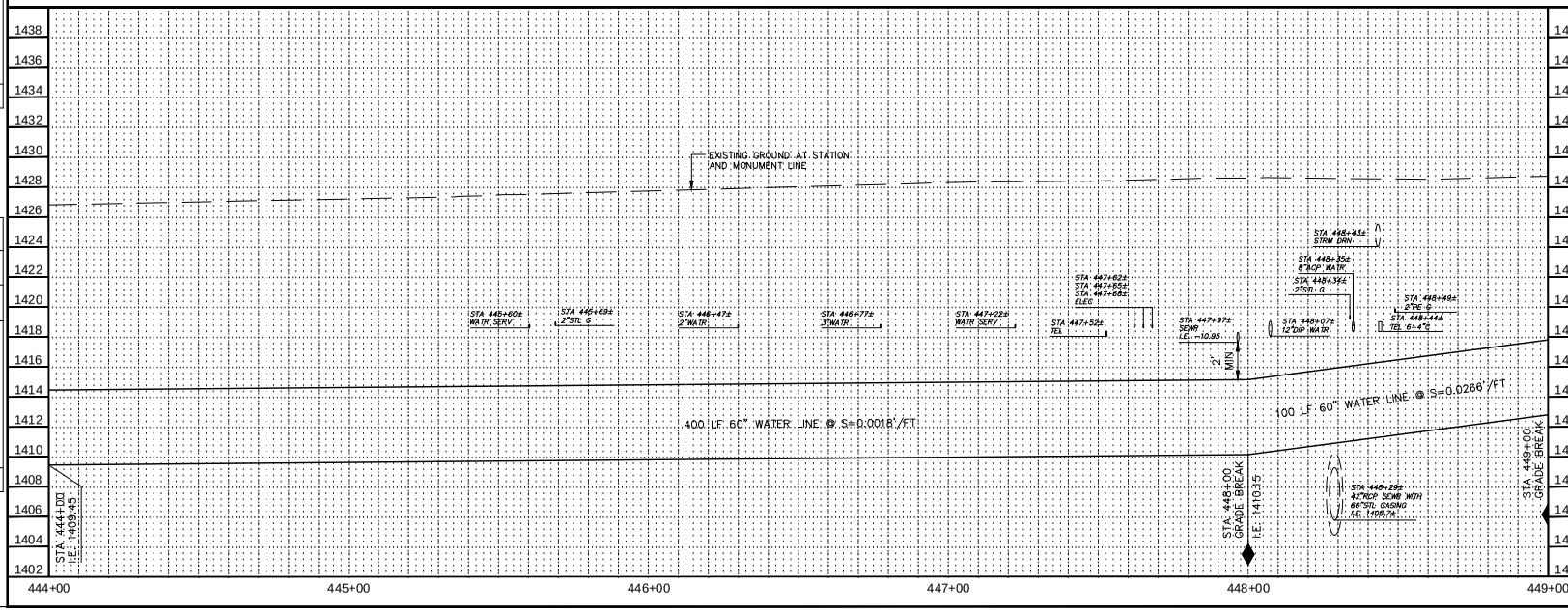

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	106	117

PEC PROJECT ENGINEERING CONSULTANTS
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Phone: (602) 906-1901
Fax: (602) 906-3080

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	–

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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24TH STREET WTP TO 32ND STREET AND BELL ROAD

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City of Phoenix

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CONSTRUCTION NOTES

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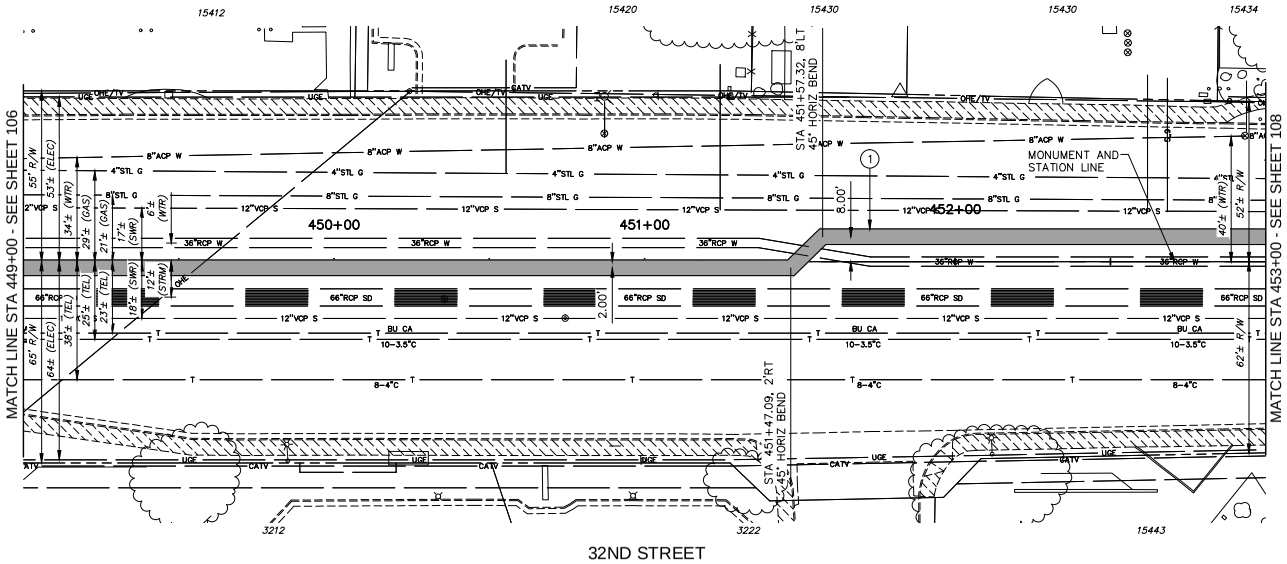
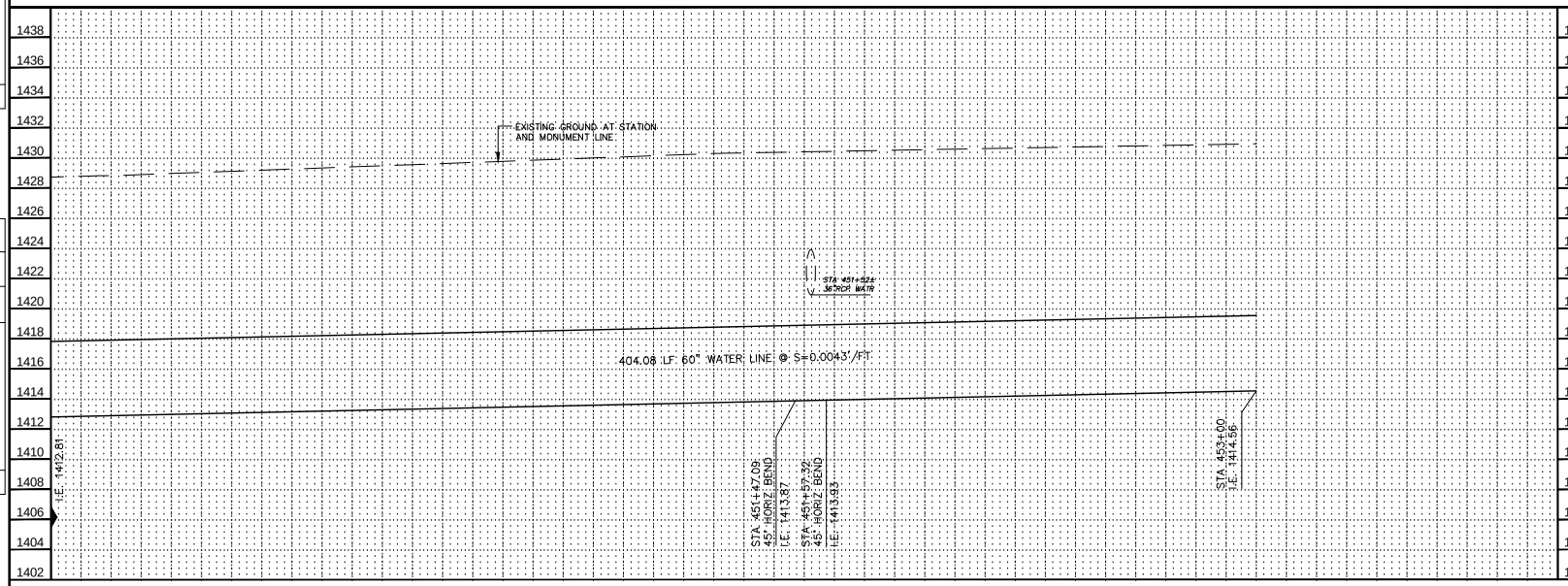
1	INSTALL 60" WATER LINE	LF	405





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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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24TH STREET WTP TO 32ND STREET AND BELL ROAD

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CONSTRUCTION NOTES

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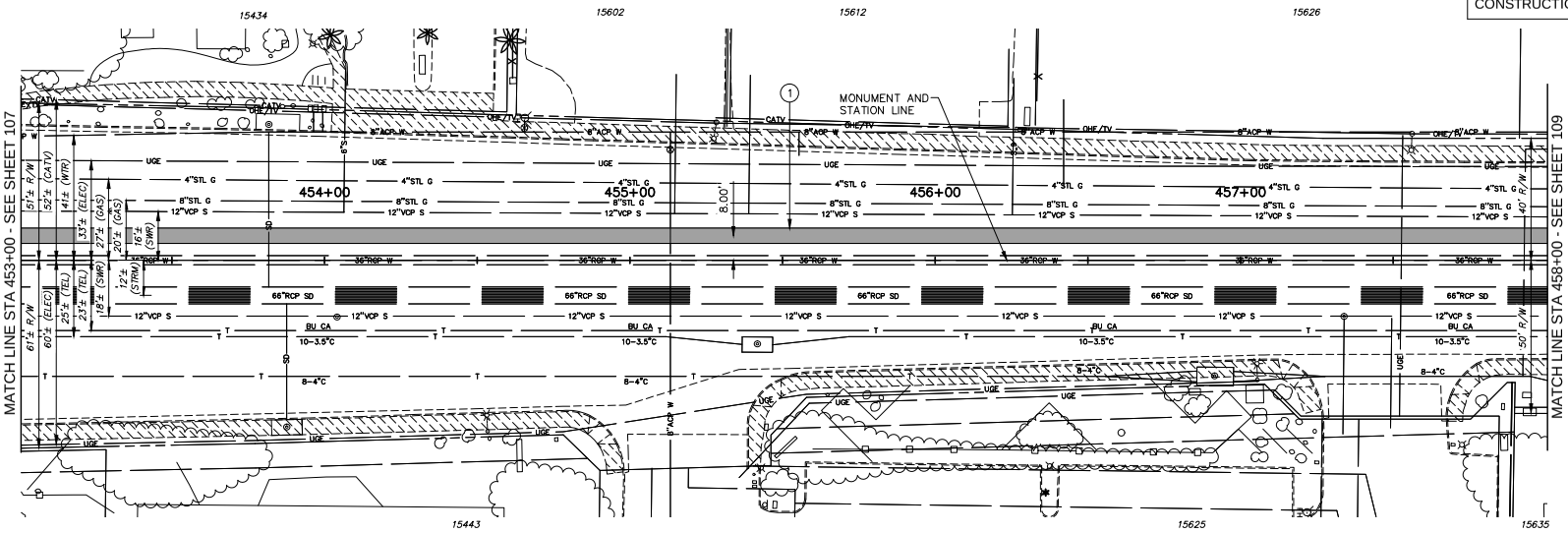
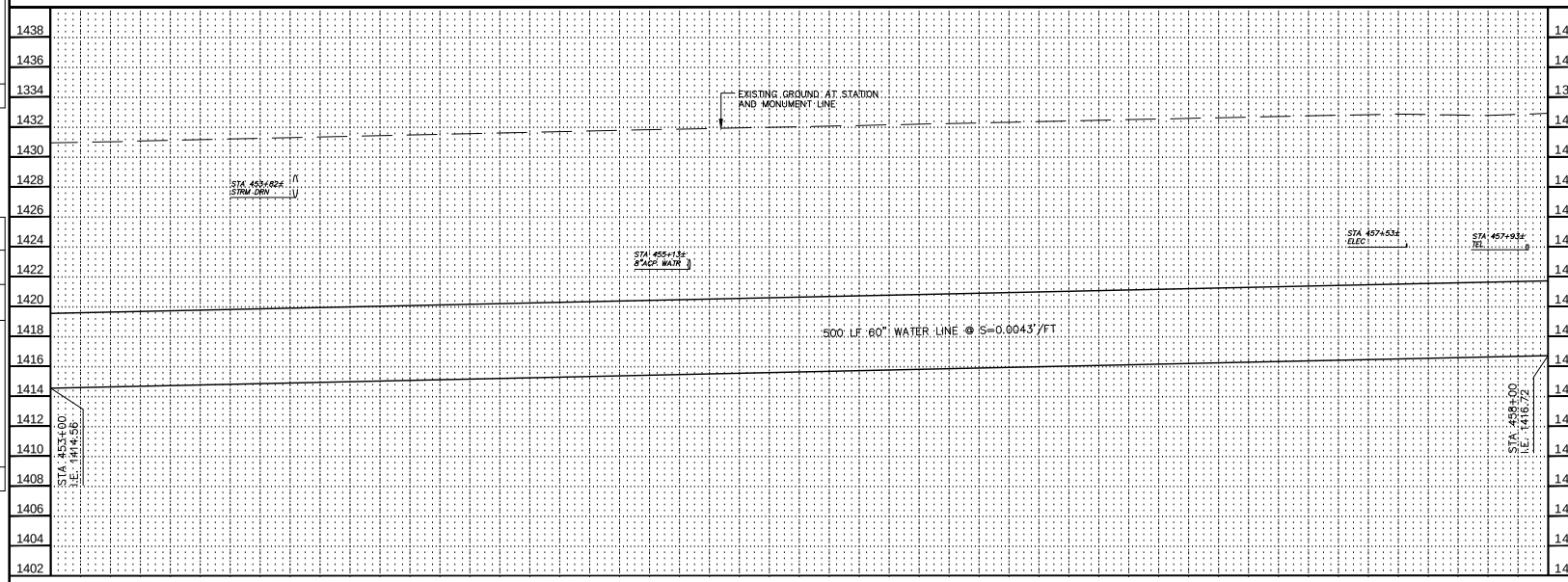


32ND STREET



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STREET TRANSPORTATION DEPARTMENT

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30%

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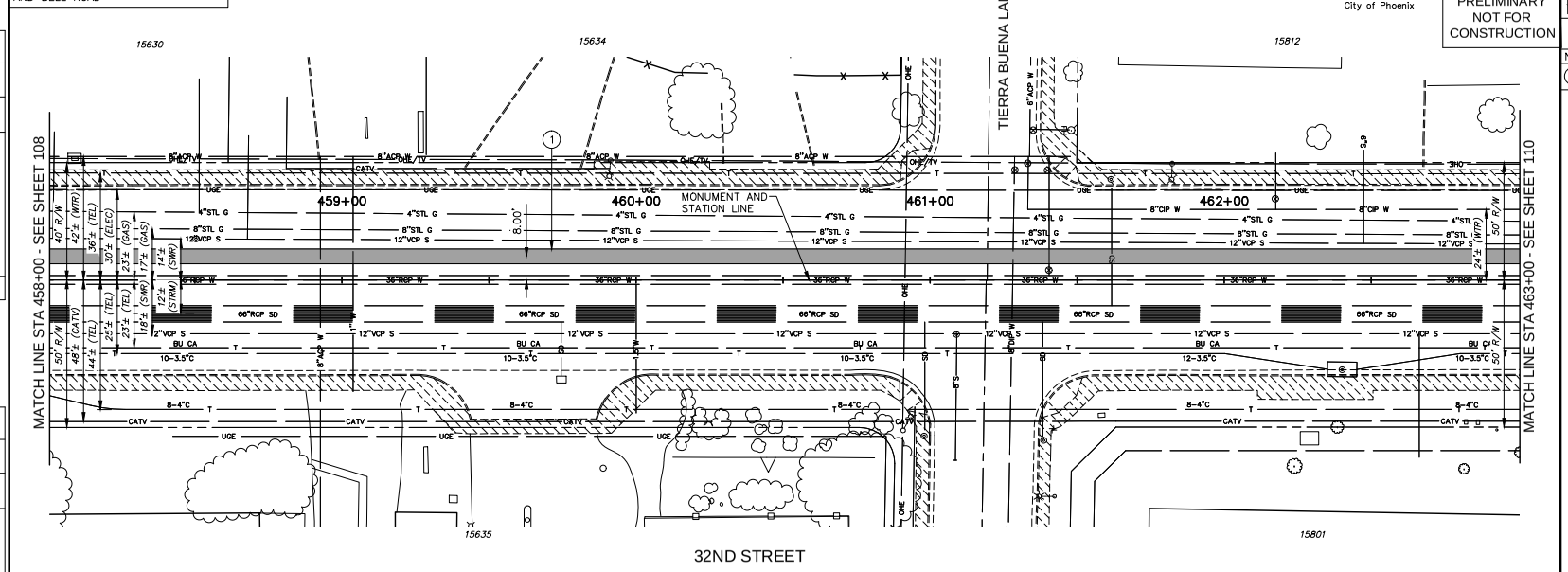
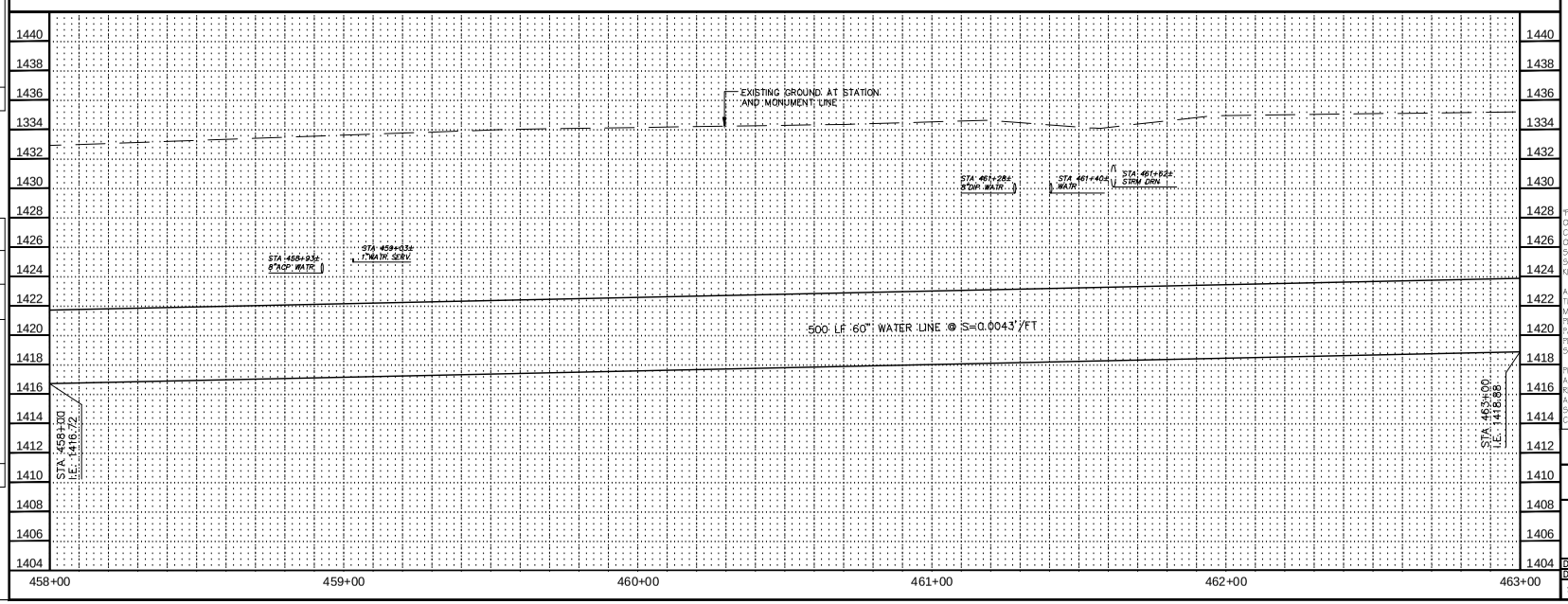
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	109	117

PEC
PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080



32ND STREET



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA 811

Call 811 or click Arizona811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JG	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			109	117

REVISION BY CITY OF PHOENIX

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

PRELIMINARY NOT FOR CONSTRUCTION

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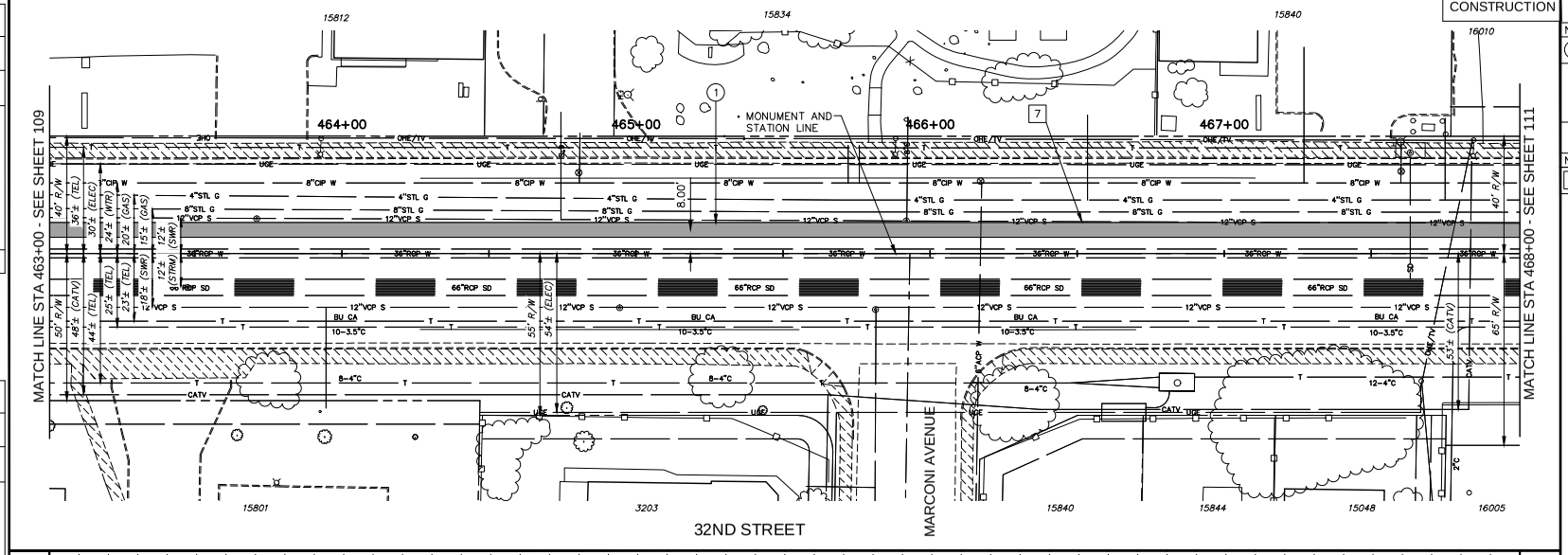

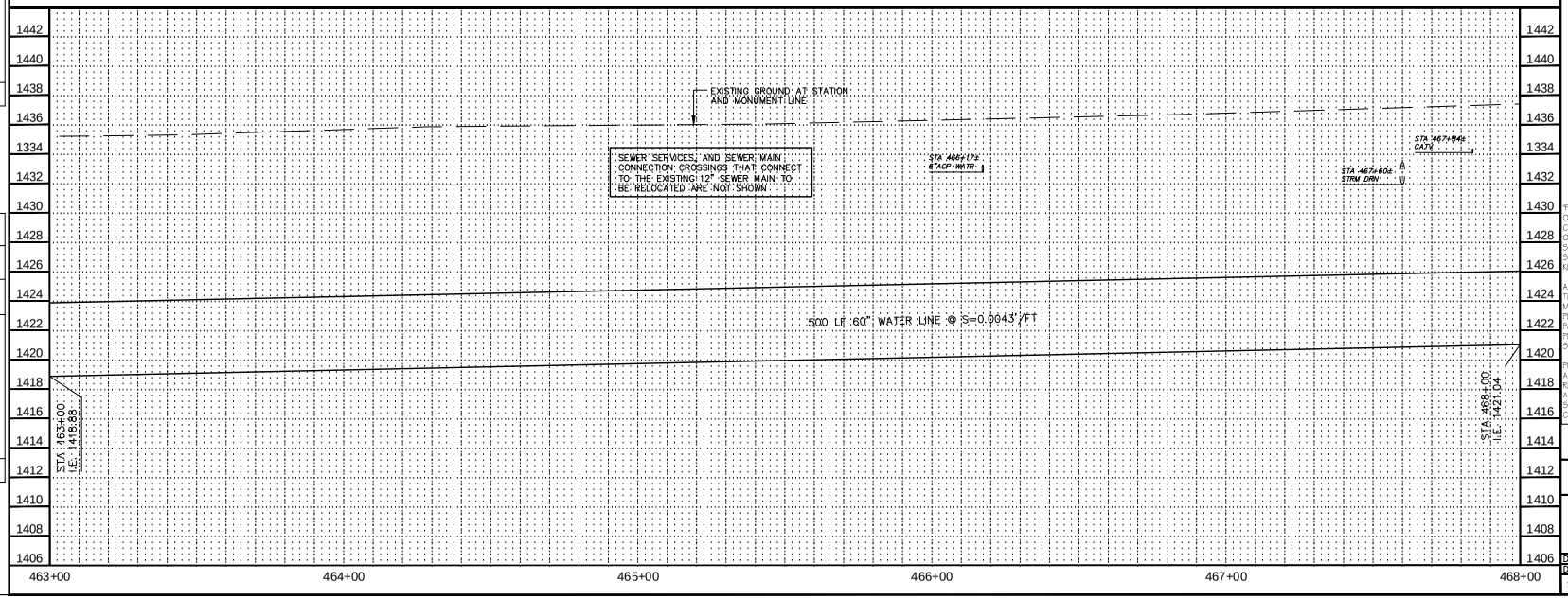

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
7	RELOCATE 12" VCP SEWER LINE	LF	220

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ARIZONA 811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
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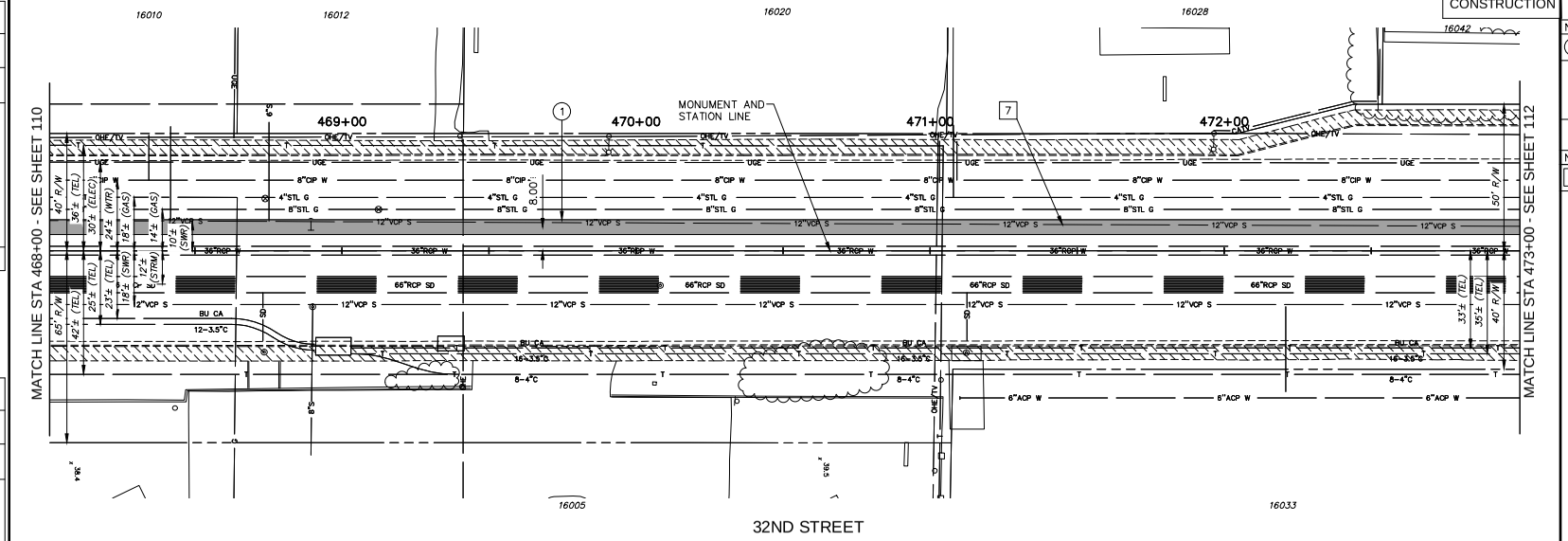

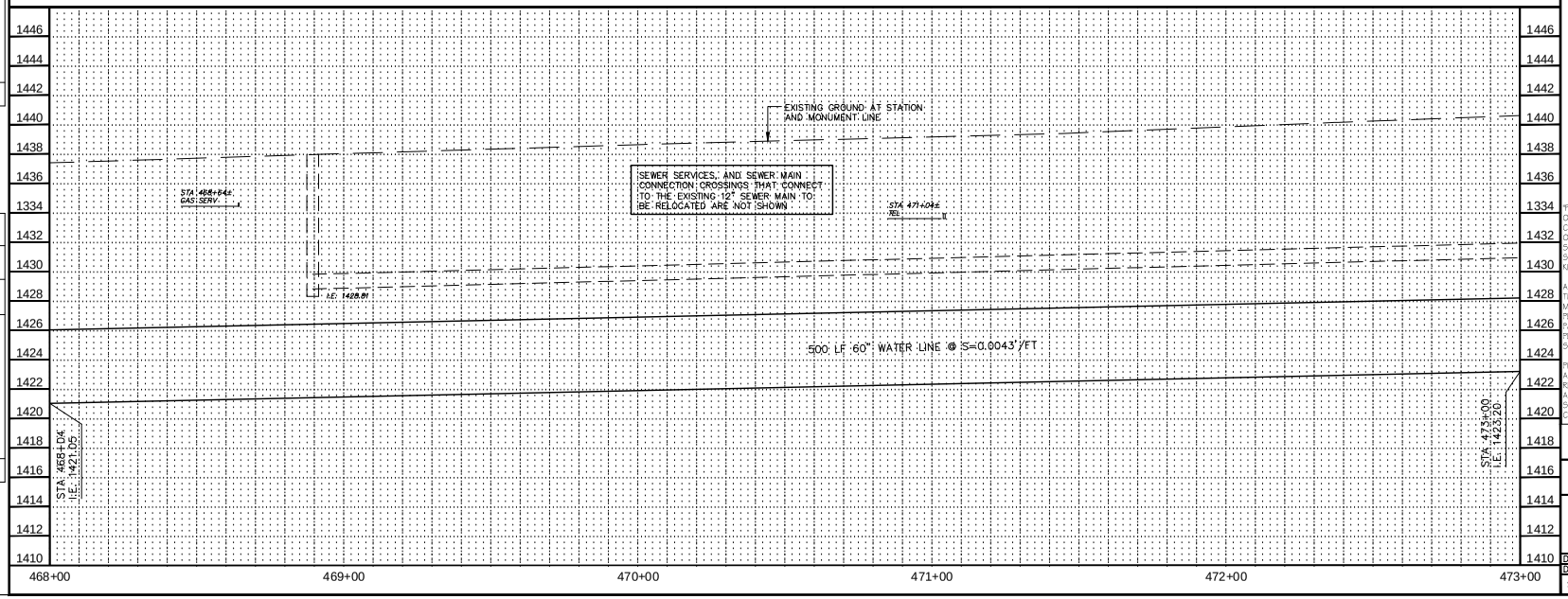

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
7	RELOCATE 12" VCP SEWER LINE	LF	500

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

City of Phoenix

30%

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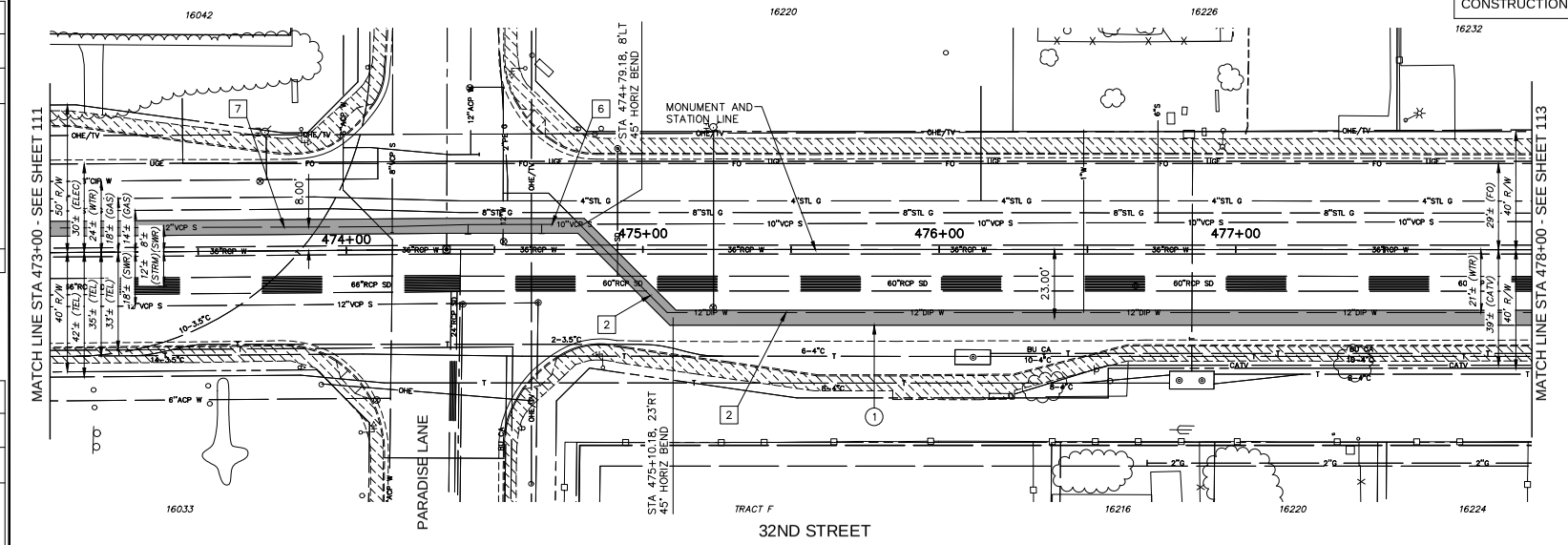

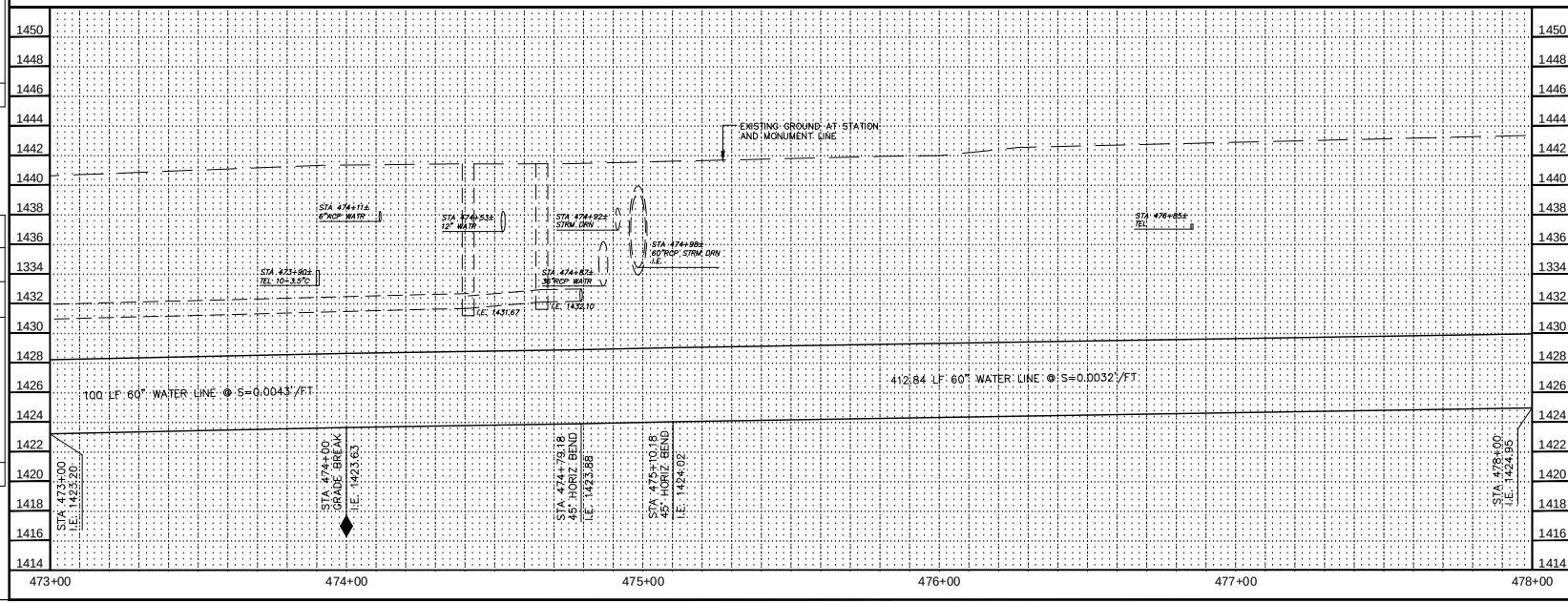

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	513

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
2	RELOCATE 12" DIP WATER LINE	LF	347
6	RELOCATE 10" VCP SEWER LINE	LF	27
7	RELOCATE 12" VCP SEWER LINE	LF	166

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ARIZONA811

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

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City of Phoenix

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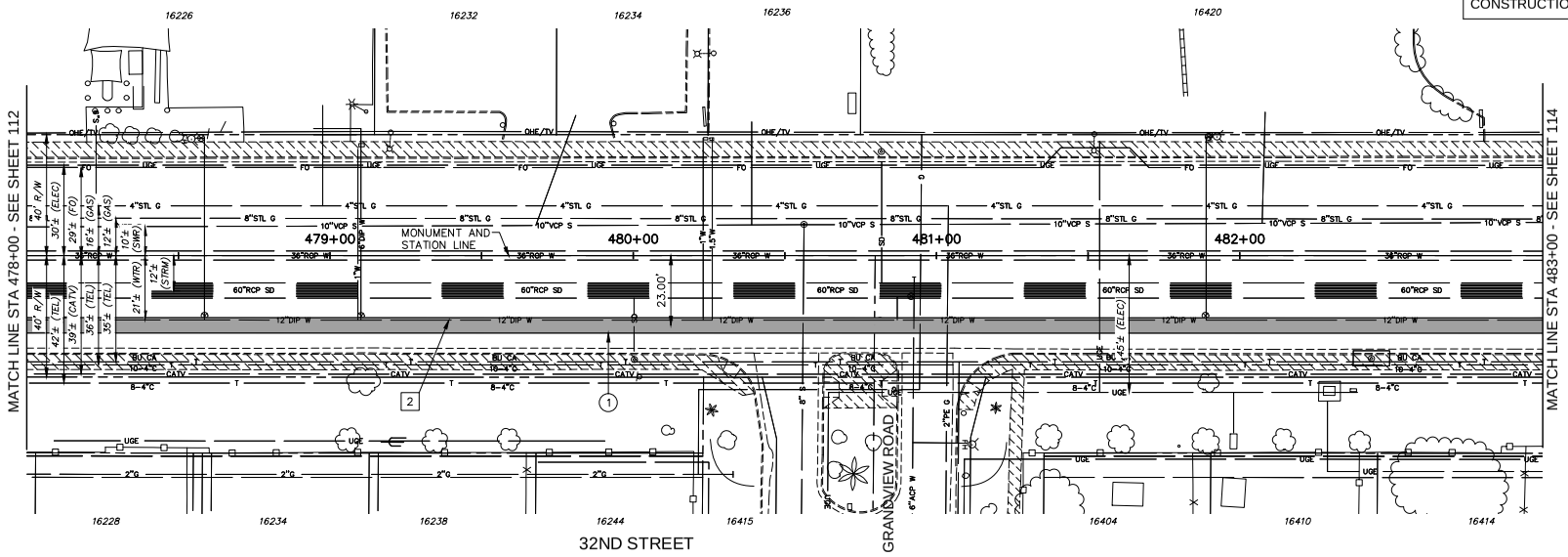

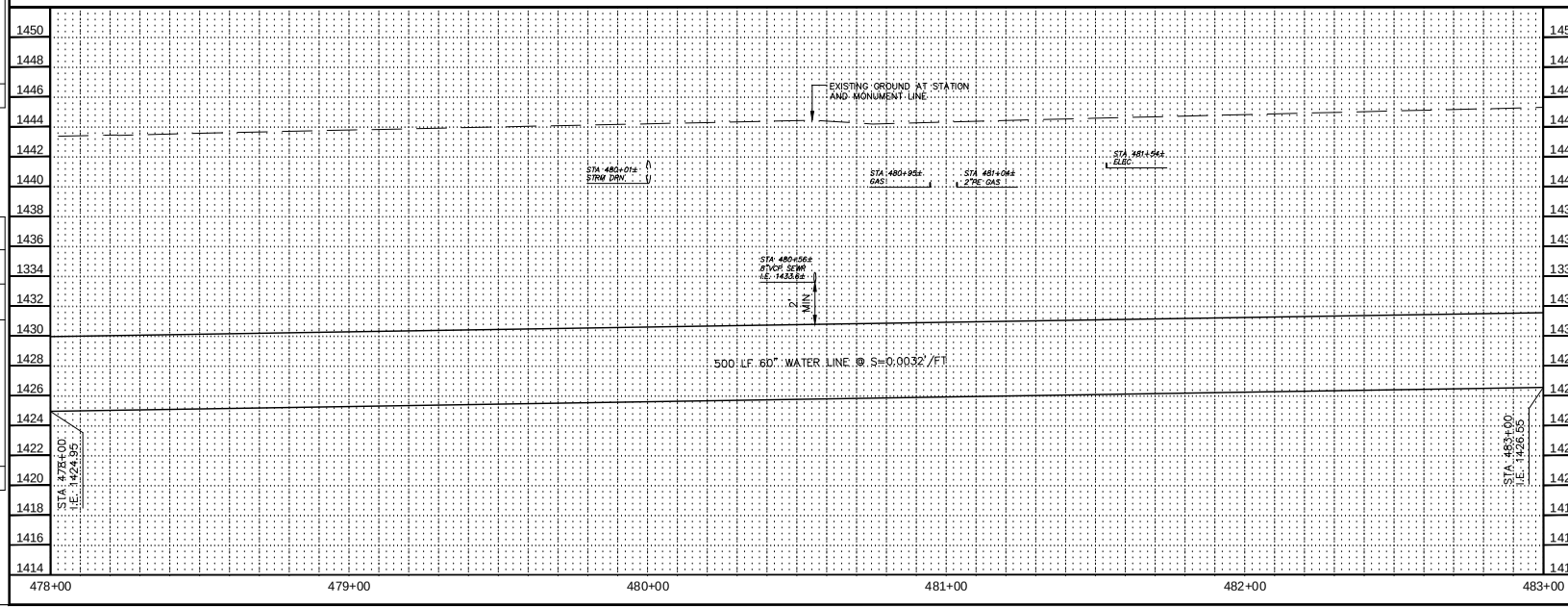

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
2	RELOCATE 12" DIP WATER LINE	LF	500

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

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PIPELINE ALIGNMENT

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24TH STREET WTP TO 32ND STREET AND BELL ROAD

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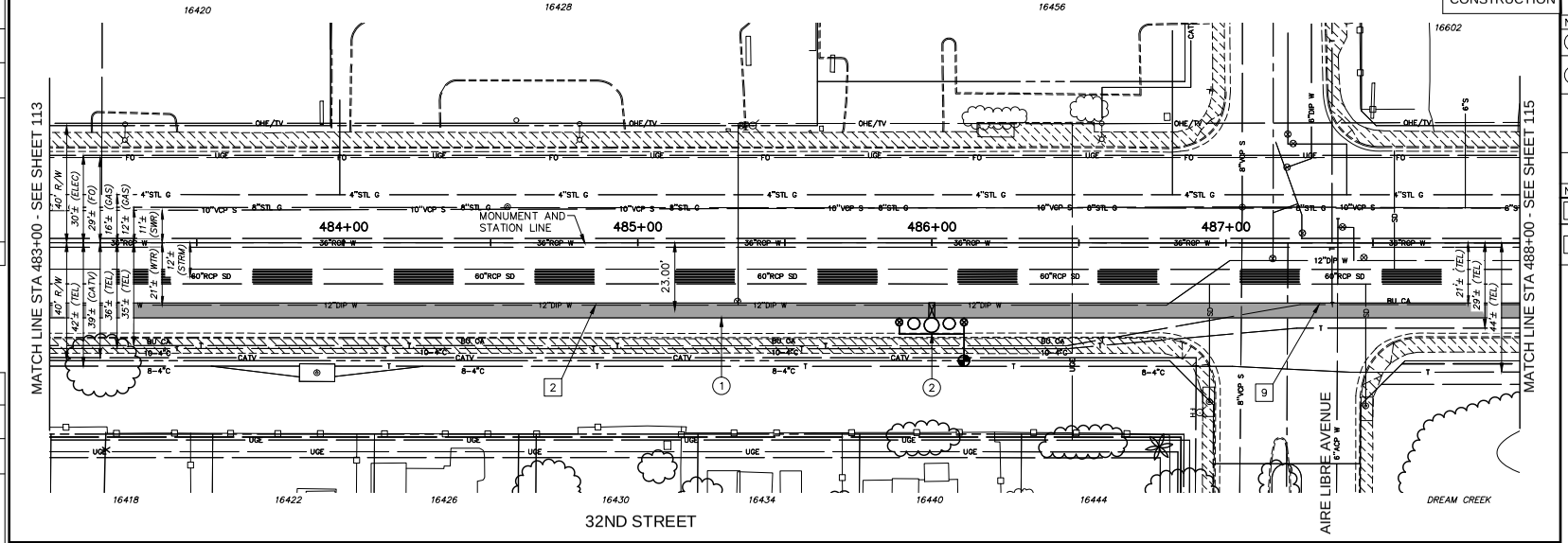

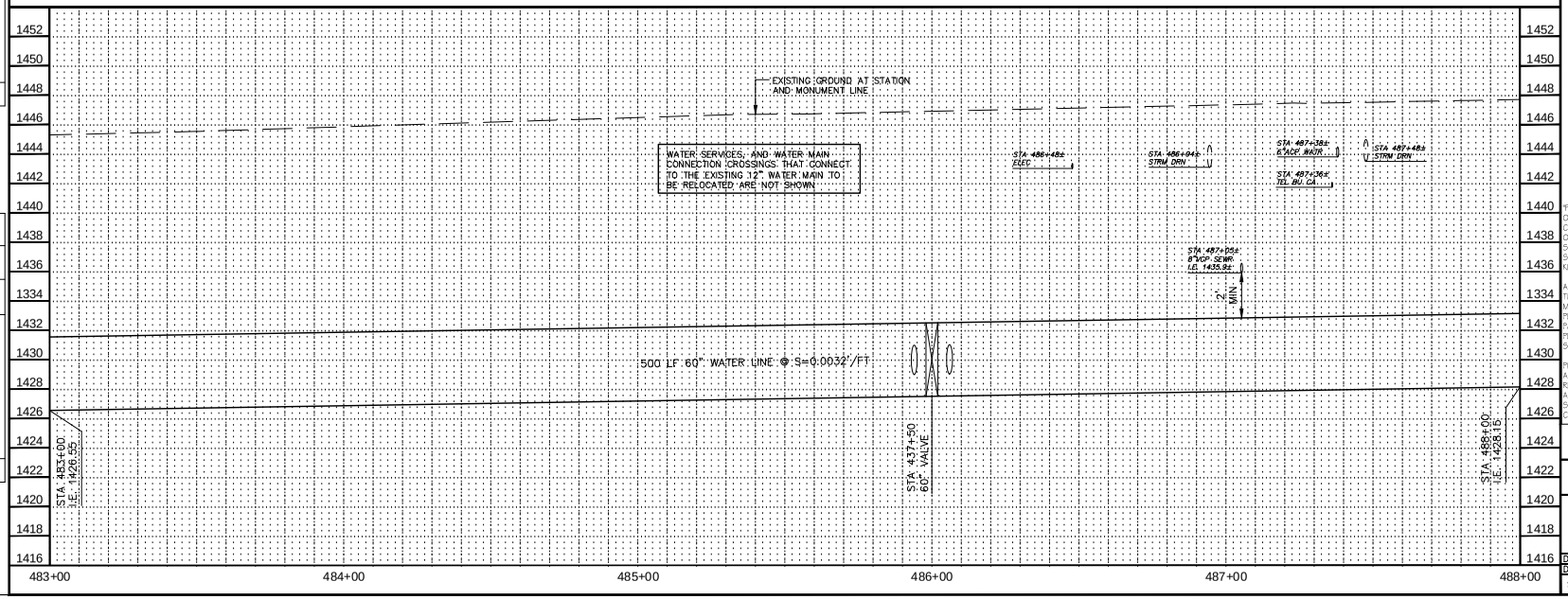

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500
2	INSTALL 60" BUTTERFLY VALVE ASSEMBLY	EA	1

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
2	RELOCATE 12" DIP WATER LINE	LF	391
9	RELOCATE TELEPHONE BURIED CABLE	LF	110

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

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PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

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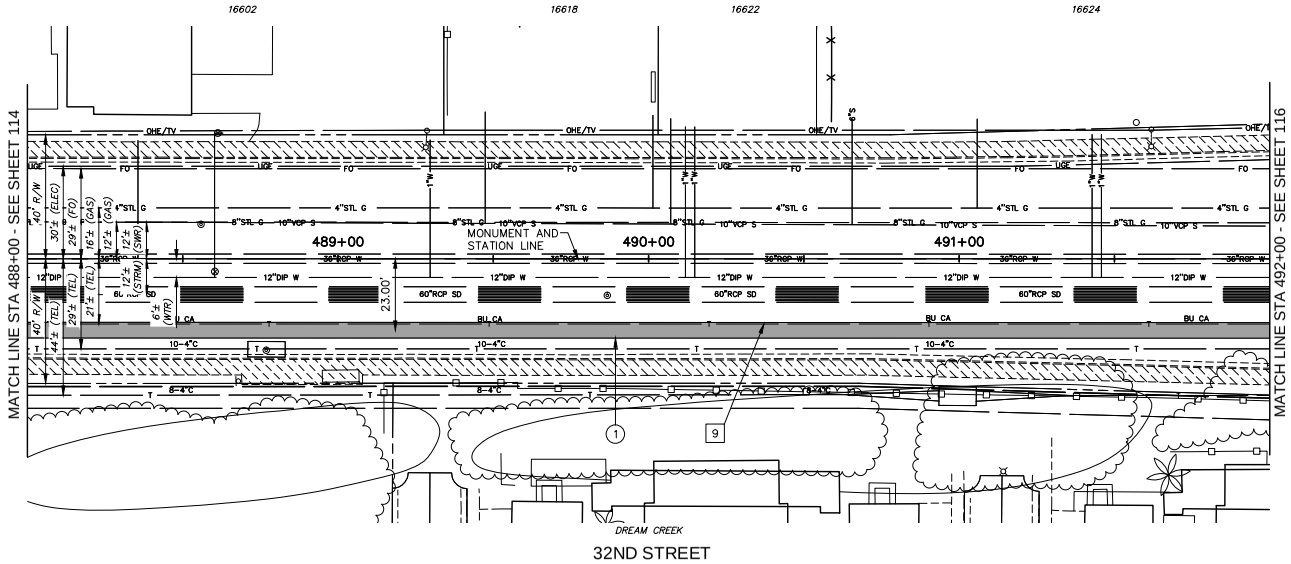

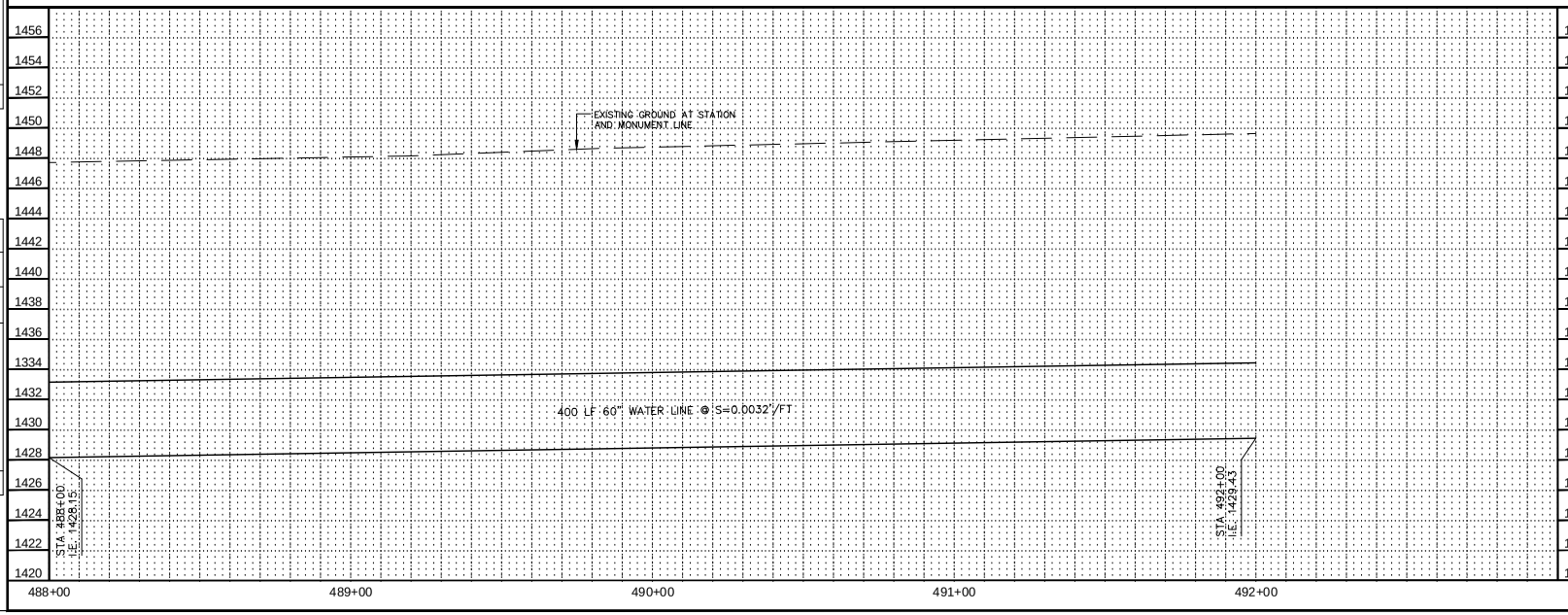

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	–

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
9	RELOCATE TELEPHONE BURIED CABLE	LF	500

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

DR: JC	DES: MVL	CK: SM	SHEET NO.	TOTAL SHEETS
DATE: 05/18	DATE: 05/18	DATE: 05/18		
SCALE: HORIZ 1"=20' VERT 1"= 4'			115	117

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PIPELINE ALIGNMENT

PHOENIX STREET – MARICOPA CO.

24TH STREET WTP TO 32ND STREET AND BELL ROAD

N

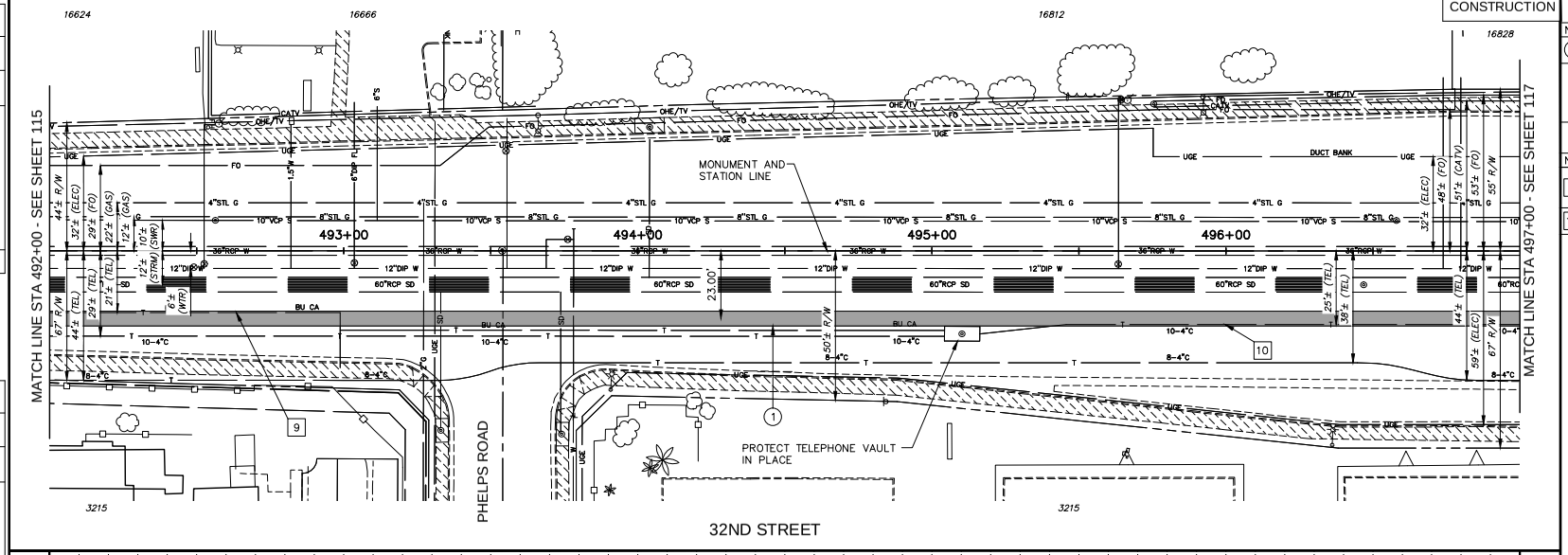
City of Phoenix

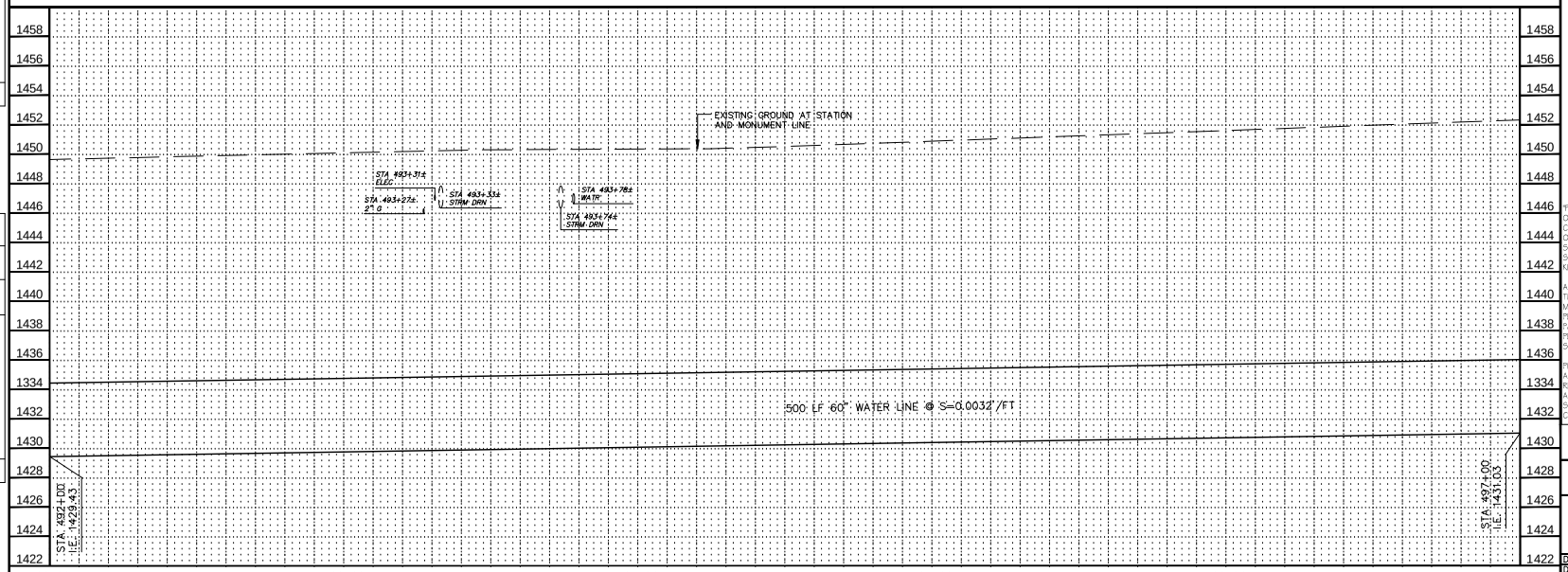
30%

PRELIMINARY NOT FOR CONSTRUCTION

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS85100047-2	116	117

PEC PROJECT ENGINEERING CONSULTANTS
2310 W. MISSION LANE, SUITE 4
Phone: (602) 906-1901
Fax: (602) 906-3080





CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	500

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
9	RELOCATE TELEPHONE BURIED CABLE	LF	110
10	RELOCATE TELEPHONE DUCT BANK	LF	171

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA 811
Call 811 or click Arizona811.com

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WATER PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA

STREET TRANSPORTATION DEPARTMENT

PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD WS85100047-2

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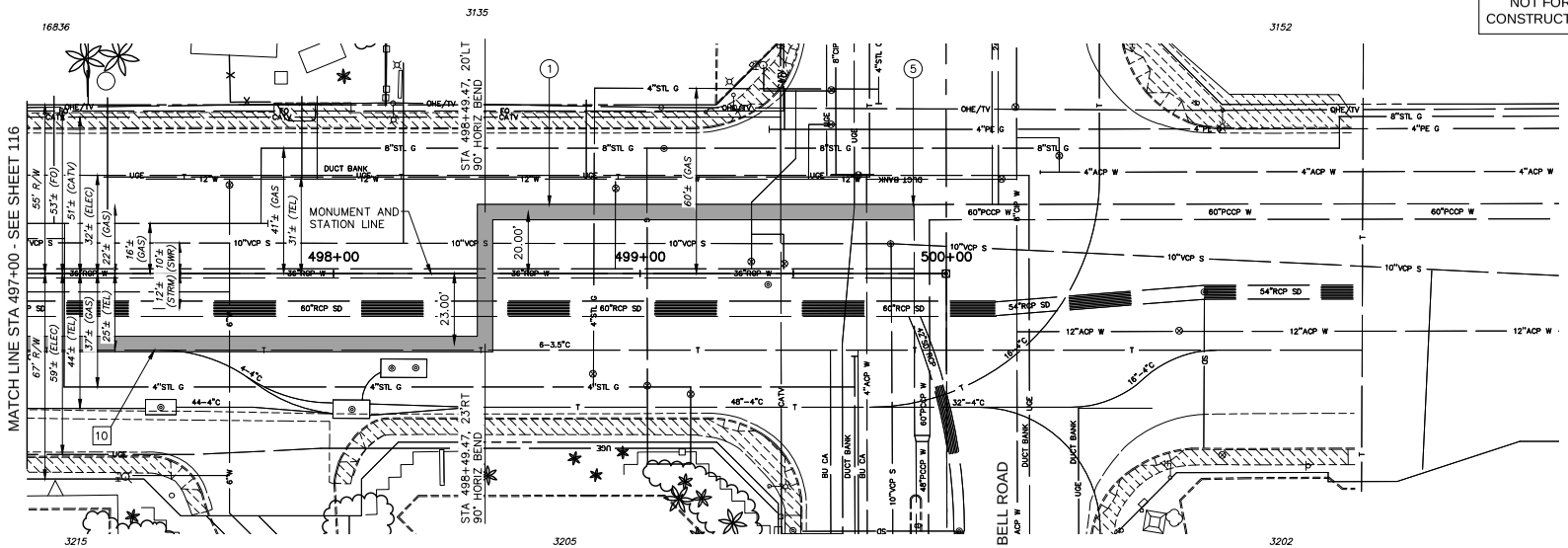

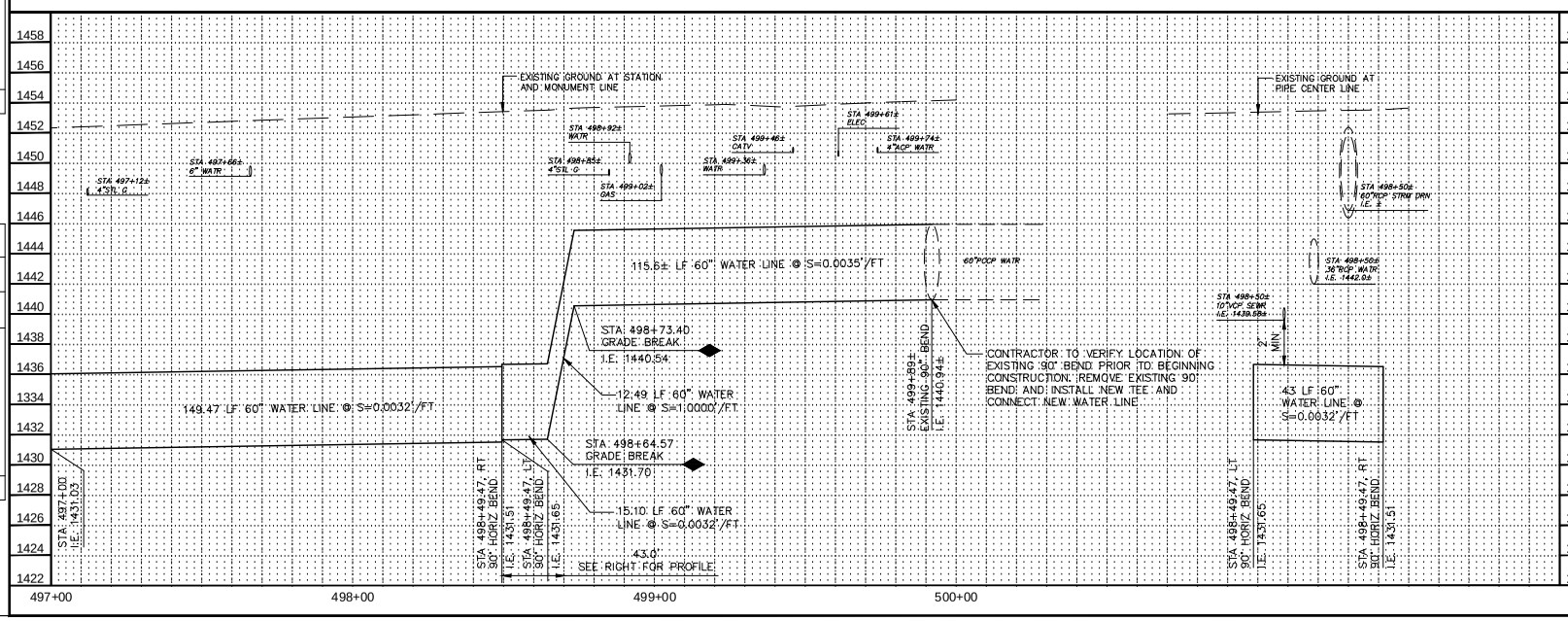

CONSTRUCTION NOTES

NO.	DESCRIPTION	UNIT	QTY
1	INSTALL 60" WATER LINE	LF	333
5	REMOVE 90° BEND AND CONNECT 60" WATER LINE	EA	1

REMOVAL / RELOCATION NOTES

NO.	DESCRIPTION	UNIT	QTY
10	RELOCATE TELEPHONE DUCT BANK	LF	162

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ARIZONA 811

Call 811 or click ArizonaBlue811.com

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CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

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Appendix F

30% Estimate of Probable Construction Costs

PEC
PROJECT ENGINEERING CONSULTANTS

CITY OF PHOENIX
WATER SERVICES DEPARTMENT
PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

PEC
PROJECT ENGINEERING CONSULTANTS

30% COST ESTIMATE

Date **5/25/2018**

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
M1042005	Allowance for Extra Work	LS	1	$ 500,000	$ 500,000
M1081000	Mobilization (7%)	JOB	1	$ 2,000,000	$ 2,000,000
M3360260	Asphalt Concrete For Permanent Pavement Replacement, Type C 3/4, 6" Thick	SY	33310	$ 120	$ 3,997,200
M3400240	Concrete Valley Gutter, Std. Detail 240	SF	1050	$ 20	$ 21,000
M3400400	Concrete Sidewalk, Std. Detail P-1230	SF	12050	$ 8	$ 96,400
M3402201	Combined Concrete Curb and Gutter, Std. Detail 220, Type "A", H=6"	LF	3021	$ 22	$ 66,462
M3500010	Remove Portland Cement Concrete Single Curb; Curb and Gutter; Header Curb and Embankment Curb	LF	3021	$ 10	$ 30,210
M3500020	Remove Portland Cement Concrete Sidewalk, Driveway, Valley Gutter & Slab	SF	11650	$ 5	$ 58,250
M3500041	Remove Pipe	LF	6904	$ 50	$ 345,200
M4012000	Traffic Control Devices (7%)	JOB	1	$ 2,000,000	$ 2,000,000
M4013000	Allowance for Uniformed, Off-duty Law Enforcement Officer	JOB	1	$ 250,000	$ 250,000
M4051201	Survey Marker, MAG Standard Det. 120-1, Type "A"	EA	5	$ 750	$ 3,750
M4201006	Remove and Replace 6-Foot Chain Link Fence	LF	20	$ 50	$ 1,000
M6020084	84" Steel Casing, Furnish and Install	LF	930	$ 3,000	$ 2,790,000
M6101060	60" Water Pipe and Fittings, Furnish & Install	LF	47969	$ 400	$ 19,187,600
M6101208	Connection to Existing 8" Waterline	EA	2	$ 1,500	$ 3,000
M6101212	Connection to Existing 12" Waterline	EA	6	$ 2,500	$ 15,000
M6101260	Connection to Existing 60" Waterline	EA	2	$ 40,000	$ 80,000
M6102008	8" Ductile Iron Water Pipe & Fittings, Furnish & Install	LF	830	$ 100	$ 83,000
M6102012	12" Ductile Iron Water Pipe & Fittings, Furnish & Install	LF	5265	$ 125	$ 658,125
M6108006	Fire Hydrant Furnished by the City of Phoenix, Install	EA	27	$ 2,000	$ 54,000
M6151008	8" Vitrified Clay Pipe	LF	96	$ 100	$ 9,600
M6151010	10" Vitrified Clay Pipe	LF	27	$ 125	$ 3,375
M6151012	12" Vitrified Clay Pipe	LF	886	$ 150	$ 132,900
M6153000	Construct Water or Sanitary Sewer Encasement, MAG. Std. Detail-404	LF	2775	$ 100	$ 277,500
M6255021	Construct 4-Foot Diameter Sanitary Manhole, Per MAG Details 420 and 424	EA	5	$ 5,000	$ 25,000
	60" Butterfly Valve, Full Assembly with Access Ports, Manholes, Furnish & Install	EA	10	$ 100,000	$ 1,000,000
	Miscellaneous Utility Relocations	LS	1	$ 500,000	$ 500,000
	Cathodic Protection	LS	1	$ 1,002,000	$ 1,002,000
	Trail Restoration in Phoenix Mountains Preserve	LS	1	$ 250,000	$ 250,000
	Trench - Rock Excavation	LF	14000	$ 100	$ 1,400,000
	Subtotal				**$ 36,840,572**

CITY OF PHOENIX
WATER SERVICES DEPARTMENT
PIPELINE ALIGNMENT - 24TH STREET WTP TO 32ND STREET AND BELL ROAD
WS85100047-2

30% COST ESTIMATE

Date **5/25/2018**

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
	Construction Administration (10%)	LS	1	$ 3,115,000	$ 3,115,000
	Engineering (10%)	LS	1	$ 3,115,000	$ 3,115,000
	New Permanent Easement	SF	48800	$ 5	$ 244,000
	Temporary Construction Easement	SF	18400	$ 1	$ 18,400
	Subtotal				**$ 43,332,972**
	Contingency	%	20		$ 8,666,594
	TOTAL				**$ 51,999,566**

Appendix G

Geotechnical Investigation

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