

# IMPROVEMENT PLANS FOR BRAKES PLUS TOWN OF PRESCOTT VALLEY

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

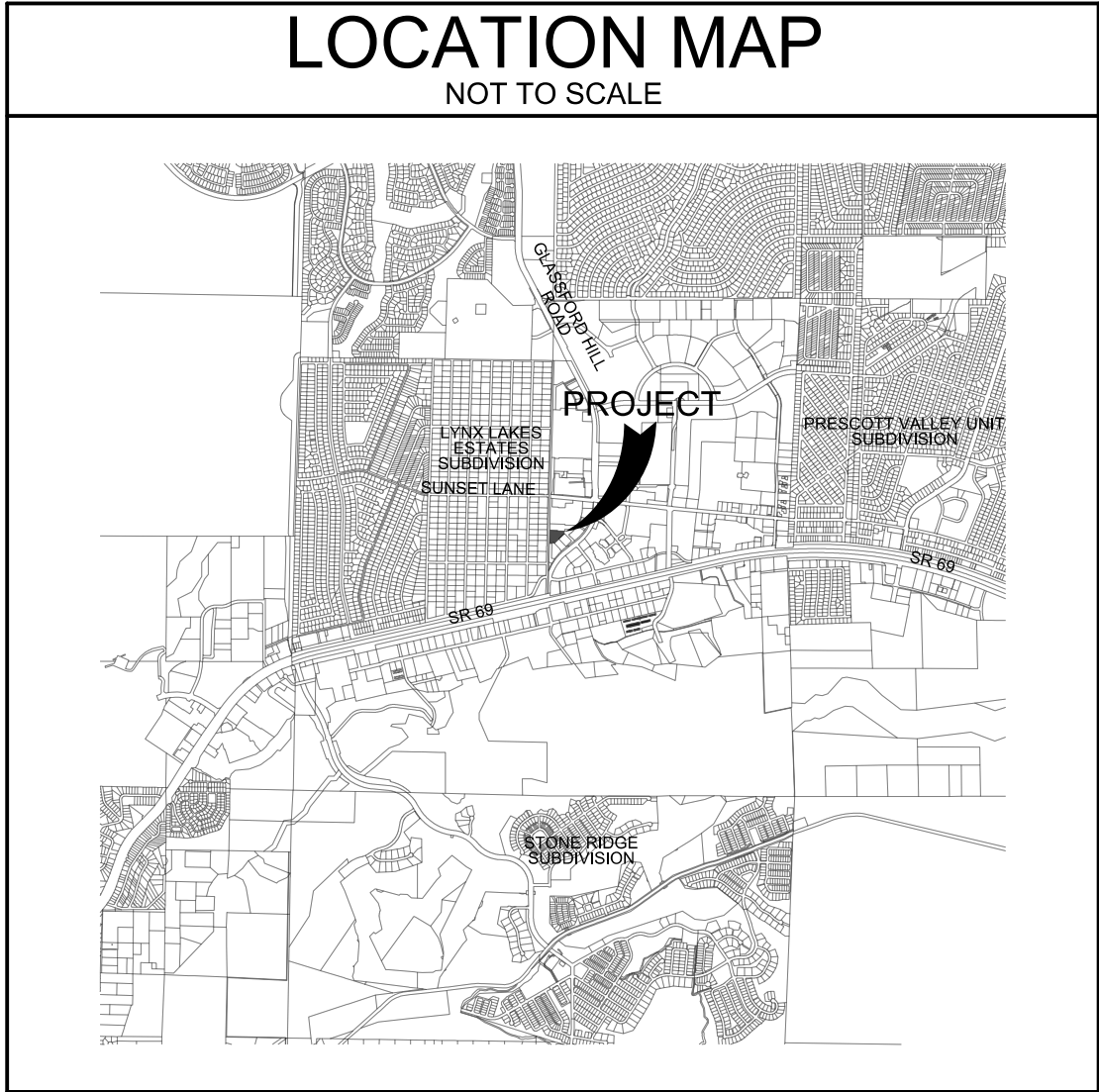


**Call 811 or click [Arizona811.com](http://Arizona811.com)**

APPROVED BY \_\_\_\_\_

\_\_\_\_\_

TOWN ENGINEER DATE



SCALE: 1:20



ALL NOTES ON THIS SHEET ARE PROVIDED DIRECTLY BY THE TOWN OF PRESCOTT VALLEY

GENERAL CONSTRUCTION NOTES

103.1 Standard Documents

All work to complete the construction covered by these plans shall be in accordance with the latest revision and supplements to:  
-The Town Design and Construction Standards (TDCS)  
-Specific Development Agreements  
-Town Code

-Quad City Standard Detail (QCSD)  
-Maricopa Association of Governments (MAG) Standards and  
-Other Standards Listed In The TDCS.

103.2 Laws & Licenses

The contractor must:  
-Comply with all local, county, state, and federal laws and regulations applicable to the construction covered by these plans and possess a current Town of Prescott Valley Business License.

103.3 Environmental Controls -

The following Arizona Department of Environmental Quality (ADEQ) requirements shall be complied with:

-A Storm Water Pollution Prevention Plan (SWPPP) is required under The Arizona Pollutant Discharge Elimination System General Permit (AZPDES) for all projects that involve disturbance of an area that is more than 1 acre and shall be submitted to the Town for review. This should include a list of Best Management Practices (BMPs) and should be in book/diagram form.

-A Notice of Intent (NOI) must be submitted to ADEQ that references the SWPPP.  
-A Notice of Termination (NOT) shall be submitted to ADEQ once 70% of disturbed land has been successfully re-vegetated following project completion.  
The Town shall receive notification and copies when the NOI and NOT have been submitted to ADEQ.

103.4 SWPPP

The SWPPP required per Section 209 of the TDCS shall be submitted by the Operator of the construction site according to guidelines set forth by ADEQ. The Operator can be the owner, developer, general contractor or individual contractor responsible for operational control. The SWPPP and any erosion control plans shall be amended as necessary during the course of construction to resolve any problem areas, which become evident during construction, routine inspections, and/or periods of rainfall. If it is determined that current controls are not effective at minimizing pollutant discharges from the site, immediate efforts shall be made to correct the problem within 72 hours and/or prior to the next rain event. The amended plan shall be maintained on-site.

103.5 Permits

The owner is responsible for obtaining and complying with all permits required to complete all work covered by these plans. A separate permit will be required for any construction extending beyond the construction site property boundary. A Town Right-of-Way (ROW) permit and Traffic Control Plan per Section 103.8 will be required for all construction within public ROW and easements.

103.6 Quantities

Any quantities shown on plans are not verified by the Town .

103.7 Plan Revisions

All revisions to original plans must be approved by the Engineer of Record (EOR) and the Town prior to construction. Decisions regarding changes which can be made in the field or at the discretion of the EOR in consultation with the Town versus those which require formal approval by Town engineering staff shall be discussed during the pre-construction conference. Any work not based on approved revisions is subject to removal and/or replacement at no expense to the Town.

103.8 Traffic Control Plan

Contractor is responsible for submitting a traffic control plan to the Town as needed to perform construction activities. Submittal shall be made at least five Town working days (excluding holidays) prior to commencement of construction. Construction cannot begin until Town approval of the plan is granted. The dynamic nature of traffic related activities may require modification of an approved plan based on Town analysis. If so, the contractor will modify the traffic control plan at no expense to the Town.

103.9 Dust Control

The contractor shall keep suitable equipment on hand at the job site for maintenance and dust control, and shall control dust as directed by the appropriate agencies, including the Town at no expense to the Town.

103.10 Site Cleanliness

The contractor shall keep all roadway pavement, curb and gutter, and sidewalk surfaces free of debris, construction materials, etc during construction and at completion of construction. The site shall at all times remain free of loose trash and debris. Appropriately sized covered waste receptacles shall be provided onsite and stored a minimum of 50' from any drainage way or drainage inlet.

103.11 Site Safety

The contractor is responsible for ensuring that construction trenches, holes, depressions, etc. are not left exposed at the end of a work shift. Traffic plates, or other security measures, must be utilized to ensure safe passage over or around all hazards. The contractor shall barricade the construction site when the site is unattended.

103.12 Excess Materials

Contractor is responsible for all project generated excess. This includes, but is not limited to:

-The removal, transport, permitting, disposal, etc. of any excess vegetation, spoils, materials, debris, etc. generated by a project and any associated costs.  
-Spoils must also be cleared from roadways, pathways, open ground, etc. at the end of a work shift if they inhibit conveyance or if safety within the project limits would be compromised.  
-Expenses related to excavation and spoil services are the responsibility of the contractor.

103.13 Utility Conflicts

Contractors are responsible for verifying all utilities and underground conflicts in accordance with Arizona Administrative Code (AAC) regulations. This includes:  
-Excavation of existing infrastructure to ensure location, size, fittings, depth, alignment, etc.  
-Excavation of areas for new infrastructure to ensure location, size, fittings, depth, alignment, etc.  
-Excavation of areas to determine conflicts with other utilities or infrastructure, etc.

103.14 Blue Stake

Blue Stake locating services must be performed in advance of any construction and contractor shall observe all possible precautions to avoid any damage to such. The contractor shall contact Arizona Blue Stake two full working days (48 hours) prior to commencement of construction. Dial 8-1-1 or 1-800-STAKE-IT (782-5348). The EOR and/or owner will not guarantee any locations as shown on these plans or those omitted from same. Should any location or elevation differ from that shown on these plans, the contractor shall consult the owner's agent for coordination.

103.15 Utility Abandonment

Abandonment in place of public utility lines shall be at the discretion of the Town and shall be in accordance per applicable QCSD for Abandoned Utilities.

103.16 Asbestos Cement Pipe

Maintenance, repair or replacement of existing Asbestos Cement Pipe shall be in accordance per applicable QCSD.

103.17 Sewer Inspections

For any construction adjacent to or crossing existing sewer lines, the contractor shall complete a pre and post DVD video inspection per applicable QCSD. Adjacent in this section is defined as less than a 2 foot horizontal separation from new construction. The video inspection shall occur from the next adjacent upstream and downstream manholes beyond all construction activity. If evidence of debris or damage is found, contractor shall make all necessary repairs and additional video inspection shall be completed, as determined by the Town.

103.18 Utility Repairs

The contractor is responsible for repairing damage to existing utilities and/or facilities incurred during any construction operations.

103.19 Inspections

The contractor shall notify the EOR and Town Public Works Department (928-759- 3070) at least two working days (48 hours) in advance of construction for inspection.

103.20 Utility Testing

Water, gravity sewer, forced sewer, reclaimed water and storm line testing shall not be accepted unless testing occurs after all underground disturbances and construction is complete. Pre-completion tests are allowed, if the contractor desires such activity, but the Town will not recognize the validity of said tests.

103.21 Utility Adjustments

All frames, covers, valve boxes, and manholes inside the paved surface shall be adjusted to finished grade upon completion of paving or related construction per applicable QCSD. All frames, covers, and valve boxes outside a paved surface shall be adjusted between 6 and 8 inches above finished grade upon completion of related construction per applicable QCSD.

103.22 Defective Materials

All work and materials which do not conform to the required standards, codes and agreements are subject to removal and replacement at no expense to the Town.

103.23 Inspections-

Inspection shall be performed by a qualified representative of an engineer licensed in the State of Arizona. The date of inspection will be determined at the pre-construction conference. Inspection must meet all requirements set forth by ADEQ, the State of Arizona, the Town and shall be certified by the EOR. The Town will complete oversight inspection only. The EOR shall provide all certifications and other documentation to the Town prior to acceptance by the Town.

103.24 Plan Expiration

All plans signed/approved by the Town are null and void one year from date of signature if construction has not started unless otherwise approved by the Town.

103.25 Construction Staking

The contractor shall make no claim against the owner, the EOR or surveyor regarding the inaccuracy of construction stakes set forth by the EOR or surveyor, unless all survey stakes set by the EOR or surveyor are maintained intact and can be verified as to their origin. If, in the opinion of the EOR, the stakes are not maintained intact and cannot be verified as to their origin, any remedial work required to correct any item shall be performed at the sole expense of the responsible contractor or subcontractor.

103.26 Warranty

The contractor and/or developer shall provide a warranty for any public project or any project that will be given to the public per agreement(s). The Town's definition of a warranty includes any workmanship, labor, materials, equipment, sales tax, etc. required to restore a project to acceptance criteria as defined by the plan. The warranty period lasts for a minimum of two (2) years from the date of Town final acceptance of project. All warranty work must also conform to all portions of the applicable TDCS, QCSD and project specifications.

103.27 Project Quantities

Quantities and site conditions depicted in these plans are for informational purposes only and may be subject to errors and omissions. Contractors shall satisfy themselves as to actual quantities and site conditions prior to bidding the work for the construction covered by these plans. If any discrepancies in quantities or site conditions are found, the contractor shall notify the EOR. The Town does not warrant any quantities shown on the plans.

103.28 Notifications -

Contractor shall notify the EOR and/or surveyor two working days (48 hours) in advance of any construction to schedule staking.

103.29 Construction Schedule

The contractor shall provide sufficient personnel and equipment on the job at all times during construction to comply with the construction schedule, and specifications to complete work.

103.30 Construction Contract

Nothing contained in the construction contract documents shall create, nor shall be construed to create, any contractual relationship between the EOR and the contractor or any subcontractor.

103.31 Means and Methods

Neither the Town nor the EOR will be responsible for construction means, methods, techniques, sequences, procedures, safety precautions or programs utilized in connection with the work. Neither the Town nor the EOR will be responsible for the contractor's failure to carry out the work in accordance with the contract documents.

103.32 Existing Utilities

The EOR will not guarantee any elevations or locations of existing underground utilities shown on these plans. Field verification by the contractor will be the sole responsibility of the contractor and shall be verified as deemed necessary by the contractor. Damage resulting from failure to adequately locate utilities, and take necessary precautions to protect them, will be the contractor's responsibility to correct at no expense to the Town of Prescott Valley.

103.33 Deficiencies or Discrepancies

Failure of the Town to detect deficiencies or discrepancies in the design or construction of these plans shall in no way relieve the developer, EOR or the contractor from their responsibility to conform to all Town requirements. Prior to bidding the work, the contractor shall thoroughly satisfy himself as to the actual conditions, earthwork quantities, requirements of work and deficiencies in earthwork quantities should they exist. No claim shall be made against the Town or EOR for any excess or deficiency therein, actual or relative.

103.34 Plan Interpretation

These plans are subject to interpretation of intent by the EOR. All questions regarding these plans shall be presented to the EOR for clarification in concordance with the TDCS.

103.35 Construction Water

The contractor must request a hydrant meter from the Town for site construction, filling and testing of waterlines. The meter should be ordered 2 working days prior to the start of construction. The unlawful removal of water from a fire hydrant or any other source is a violation of the Municipal Code, punishable by fine and/or imprisonment.

103.36 As-Built

"As-Built" drawings, certified by the EOR, shall be submitted and approved prior to issuance of a building "Certificate of Occupancy".

103.37 Landscape

All existing landscape including trees, shrubs and irrigation systems that are designated to remain or are not part of this project, and are damaged during construction, will be replaced in like kind at the expense of the contractor.

103.38 Portable Toilets

No construction material, including portable toilets shall be stored on any portion of any street, sidewalk, right-of-way or easement; or within 50' of any drainage way.

GRADING & DRAINAGE NOTES

201.1 Permits

The following apply:  
-An on-site grading permit is required.  
-A separate permit is required for any off site grading.

201.2 Inspections

Prior to final acceptance, the contractor shall be responsible for cleaning, visual and/or TV inspection of storm drainage infrastructure per applicable QCSD. The Town and EOR shall receive copies of applicable documentation for review.

201.3 On Site Materials

The grading contractor shall designate a location for wasting spoil materials and a letter from the property owner giving permission for said disposal prior to starting on-site construction.  
-Determine if the required procedures and subsequent documentation were complied with  
-Review all documentation and findings for compliance with Town Standards  
-Submit a report to the Town with regard to disposition.  
The Town will review the EOR supplied report to determine if the product is acceptable prior to project final acceptance.

201.4 Easements

No structure of any kind shall be constructed and/or any vegetation planted or allowed to grow within, on or over any drainage easement which would obstruct or divert the flow of storm water.

TRANSPORTATION NOTES

301.1 Sweeping

No project will be considered ready for final acceptance until all curb, roadways, medians, sidewalks and any other impacted ROW areas have been swept clean of all dirt and debris.

301.2 Subgrade Inspection

Base course shall not be placed on subgrade until subgrade requirements have been inspected and accepted by the EOR.

301.3 Utility Work

No ABC placement or paving construction shall be started until all underground utilities work within the roadway prism are completed and tested.

301.4 Asphalt Concrete

All AC shall be per applicable MAG Specifications or identified by EOR, unless another specification is approved by the Town. Mix design shall be submitted prior to start of construction.

301.5 Chip Seal

A. Pavement shall include a Chip Seal Coat installed per MAG and the following:  
-For Arterial and Collector streets, chip seal shall be "High Volume Single Chip Seal" using modified asphalt binder containing crumb rubber, polymer or combination of the two or approved equal spread at 0.50 gal/sy with ½ inch High Volume chip at 32 lbs/sy.  
-For Local, commercial and residential streets, chip seal shall be "Low Volume Single Chip Seal" using CRS-2P spread at 0.40 gal/sy with 3/8 inch Low Volume Chip at 25 lbs/sy

B. All streets shall be swept the same day as application. Curbed streets require a pickup broom to remove excess chips. Use of a kick broom is acceptable on streets without curbs upon approval of the Town.

C. All survey monuments, boxes, manholes, frames, valve, lids, etc. shall be protected from chip seal operations and shall be adjusted to finished asphalt or curb grades after placement of surface course and prior to chip seal by the contractor per applicable QCSD.

D. No chip seal construction will be allowed between September 1' and May 30'.

E. Chip seal shall be placed only when the roadway surface is dry and there is no threat of rain. The ambient temperature must be 70 degrees F and rising before chip seal operations begin.

F. Fog seal coat shall be applied to chip seal after sweeping is completed. The material to be used for fog seal coat shall be SS-1H, CSS-1H, or CQC-1H, diluted at a 1:1 ratio, and applied at a rate of 0.10 gal/sy, or as directed by EOR.  
G. No chip seal operation shall be considered complete or acceptable for payment until inspected and accepted by the Town.

301.6 Traffic Control

A Traffic Control Plan shall be submitted to the Town's Deputy Public Works Director. Traffic Control shall meet approval prior to construction per Section 103.8.

WATER CONSTRUCTION NOTES

601.1 ADEQ Requirements -

ADEQ requirements must be complied with for all aspects of construction as minimum standards. Town standards may impose additional or more strict requirements. A specific note referencing AAC R18-5-502, latest revision, must be on plans that will be approved by ADEQ or their delegated reviewer (Yavapai County).

601.2 Clearance

Utility clearances shall be maintained in accordance per applicable MAG/QCSD.

601.3 Separation -

Water and sanitary sewer separation / protection shall be in accordance per applicable MAG/QCSD. Concrete encasement of water lines is not allowed unless approved by the Town.

601.4 Connections -

The contractor shall be required to install a connection at night between 10 pm and 5 am, Monday thru Thursday, excluding holidays, for any new waterline that will affect existing service. No service interruption shall last longer than 4 hours without approval of the Town and a minimum of 48 hours' notice is required prior to any service interruption. Shutdowns shall be coordinated with the Town and its water operations contractor.

601.5 ANSI / NSF -

All components that come into contact with potable water will meet ANSI / National Sanitation Foundation (NSF) Standard 61 and bear the ANSI / NSF Standard 61 seal as required by AAC.

601.6 Disinfection -

Disinfection and testing of components not applicable to ADEQ Engineering Bulletin No. 8 shall be disinfected and flushed as follows:  
1. Swabbing of all components is required. A 25 Parts per Million (PPM) Sodium Hypochlorite Free Chlorine solution must be applied to all interior surfaces including valves, flex couplings, pipe segments or other infrastructure just prior to their installation.  
2. System flushing shall be conducted from the nearest fire hydrant, BOA, or similar appurtenance.

3. Discharge in accordance with AZPDES regulations .

601.7 Pressure and Leakage Test -

Water mains and appurtenances shall be subject to a pressure and leakage test in accordance with MAG and American Water Works Association (AWWA) standards. However, test pressure shall be a minimum of 200 psi or 150% of the working pressure in the pipe which ever is greater. The working pressure will be based on the lowest elevation/highest pressure point in the main, whichever is greater.

601.8 Trace Wire -

Trace wire, continuity test, and detectable tape required per applicable QCSD.

601.9 Asbestos Cement Pipe -

Removal or replacement of existing Asbestos Cement Pipe (ACP) shall be in accordance per applicable QCSD.

601.10 Hot Tap

Hot taps are an essential function of the Town and performed by the Town's Contract Operations Company. Contractor is responsible for trenching / clearance per applicable QCSD.

601.11 Valve Operation -

Existing system valves shall be operated by Town authorized personnel only.

601.12 Water Meter Installation -

A water meter shall be approved for installation only after the following conditions have been met:

1. New subdivisions: ATO or ADEQ documentation submitted to the Town from the EOR that states that an ATO is not required.
2. New subdivisions: Water infrastructure must have been inspected and approved by the EOR and Town.
3. Water meter and water service request fees must be paid.
4. Water meter solters must receive a building inspection approval through the building permit process. The water service line between the meter and the structure must extend a minimum of 5 feet away from the meter in order to receive the inspection.
5. Once the water meter has been set, no disturbance of the meter, line setter, box or ground within 5 feet shall occur. Any disturbance to the meter, meter box or line setter will result in damage and/or tampering fee per Town Customer Accounts Regulations.
6. Approved backflow protection has been installed if required per Town code and applicable QCSD.

601.13 Waterline Services

Waterline services up to and including the meter, meter box and the transition fitting on the discharge/customer side of the setter (tailstock) are public facilities and must be placed in easement or ROW per applicable QCSD.

601.14 Water Meters -

All water meter boxes not immediately surrounded by or immediately adjacent to paved surface or curb shall be at least 3 inches above any finished grade within 3 feet of the box. Boxes immediately adjacent to paved surfaces or curbs shall be the same height as the adjacent pavement or curb.

601.15 Pressure Reducing Valve -

A Pressure Reducing Valve / Pressure Regulator is required for all domestic services if pressure in the public main is 80 psi or higher. Valves / regulators are considered as private property and shall be maintained by the owner. It shall be located on private property, out of easement, downstream of the meter and prior to branching / entry to the property's plumbing supply.

601.16 Separate Tap -

Domestic and fire lines to a structure must be separately tapped to the water distribution main.

601.17 Backflow

Backflow Prevention requirements are noted per AAC, Town code and applicable QCSD.

601.18 Testing

Per AAC R18-5-508, all quality control testing shall be performed by the Contractor and observed by the Engineer of Record including but not limited to microbiological, pressure and disinfection testing.

601.19 Water Isolation Valves

1. Valve boxes shall comply per applicable QCSD and be fitted with a Debris Cap per MAG detail. Handles shall be colored based on AWWA code.
2. Valves shall be Mueller 2360 Series Resilient Wedge Gate Valve, Clow Resilient Wedge Gate Valve Series 2639-2640 or American Flow Control Series 2500 Resilient Wedge Gate Valve or an approved equal. Valves shall be new, gate type, bonded resilient seat, non-rising stem, mechanical joint, fuse bonded epoxy coated inside and out, 2 inch operating nut and open counter-clockwise.

SEWER CONSTRUCTION NOTES

631.1 ADEQ -

ADEQ requirements must be complied with. A specific note referencing AAC R18-5- 502, latest revision, must be on plans that will be approved by ADEQ or their delegated reviewer (Yavapai County).

631.2 Clearance

Utility clearances shall be maintained in accordance per applicable QCSD.

631.3 Separation -

Water, reclaimed water, and sanitary sewer separation / protection shall be in accordance per applicable QCSD.

631.4 Crossings -

At locations where water/sewer/reclaimed utilities cross, reference AAC and any applicable QCSDs for guidance.

631.5 Air Tests

Sewer line low pressure air tests shall be done on all lines pursuant to American Society for Testing and Materials (ASTM) Standards.

631.6 Vacuum Tests -

Sewer manhole vacuum testing is required on all new or replacement manholes in accordance with applicable QCSD.

631.7 Deflection Tests

Sewer line deflection tests shall be done on all PVC lines according to manufacturer's recommendations.

631.8 Bury Depth -

DIP must be used for bury depth greater than 10 feet.

631.9 Trace Wire -

Trace wire, continuity test and detectable tape required per applicable QCSD.

631.10 ASTM

Trace wire, pipe and fittings shall be installed pursuant to ASTM standards.

631.11 Manhole Construction

Sewer manhole construction shall be in accordance per applicable QCSD and AAC regulations.

631.12 Sewer Line Sag

Allowable sewer line sag (SAG) is specified per Table 1 - Corrective Action Requirements for SAG.

Table 1 - Corrective Action Requirements for SAG

DESCRIPTION	OBSERVED SAG	CORRECTION ACTION REQUIRED
8" to 12" Dia. Pipe	Less than or equal to ¼"	None
8" to 12" Dia. Pipe	Greater than ¼" but less than or equal to 1"	Yes if longer than 10' or more than 3 occurrences in 100'
12" to 24" Dia. Pipe	Less than or equal to 1"	None
12" to 24" Dia. Pipe	Greater than 1" but less than or equal to 1 ½"	Yes if longer than 20' or more than 6 occurrences in 100'
Greater than 24" Dia. Pipe	Greater than 1 ½"	Yes
Pipe entering or exiting manhole	Any	Yes

631.13 Paving Restrictions -

No paving, road-base, cover, etc shall occur until sewer infrastructure meets SAG and video inspection / low pressure air testing requirements.

631.14 Cleaning and TV Inspection -

Prior to final acceptance, the contractor shall be responsible for cleaning and TV inspection of sewer infrastructure per applicable QCSD. TV inspection shall include both mainline and service laterals. All joints shall require a full 360 degree camera inspection. Videos submitted without lateral inspection or 360 degree joint inspection shall not be accepted. The Town and EOR shall receive copies of applicable documentation for review. The EOR shall:

1. Determine if the required procedures and subsequent documentation were complied with
2. Review the documentation and findings for compliance with Town Standards
3. Submit a report to the Town with regard to disposition. The Town will review the EOR supplied report to determine if the product is acceptable prior to project release.

631.15 Groundwater

If groundwater or other unsuitable conditions are encountered during construction, the EOR and the Town must be notified and a resolution acceptable to all parties must be agreed on before work continues.

631.16 Manhole Taps -

No sewer service taps will be allowed into a manhole.

631.17 Roach Control -

All new, replacement or refurbished manholes shall be coated with Insecta © Contact Pesticide, or approved equal, per pesticide manufacturer's instructions.

631.18 Con Shield -

New or replacement manholes and appurtenances shall be constructed with Con 'Shield', a liquid antibacterial additive. Specifics concerning Con 'Shield' are noted per applicable QCSD.



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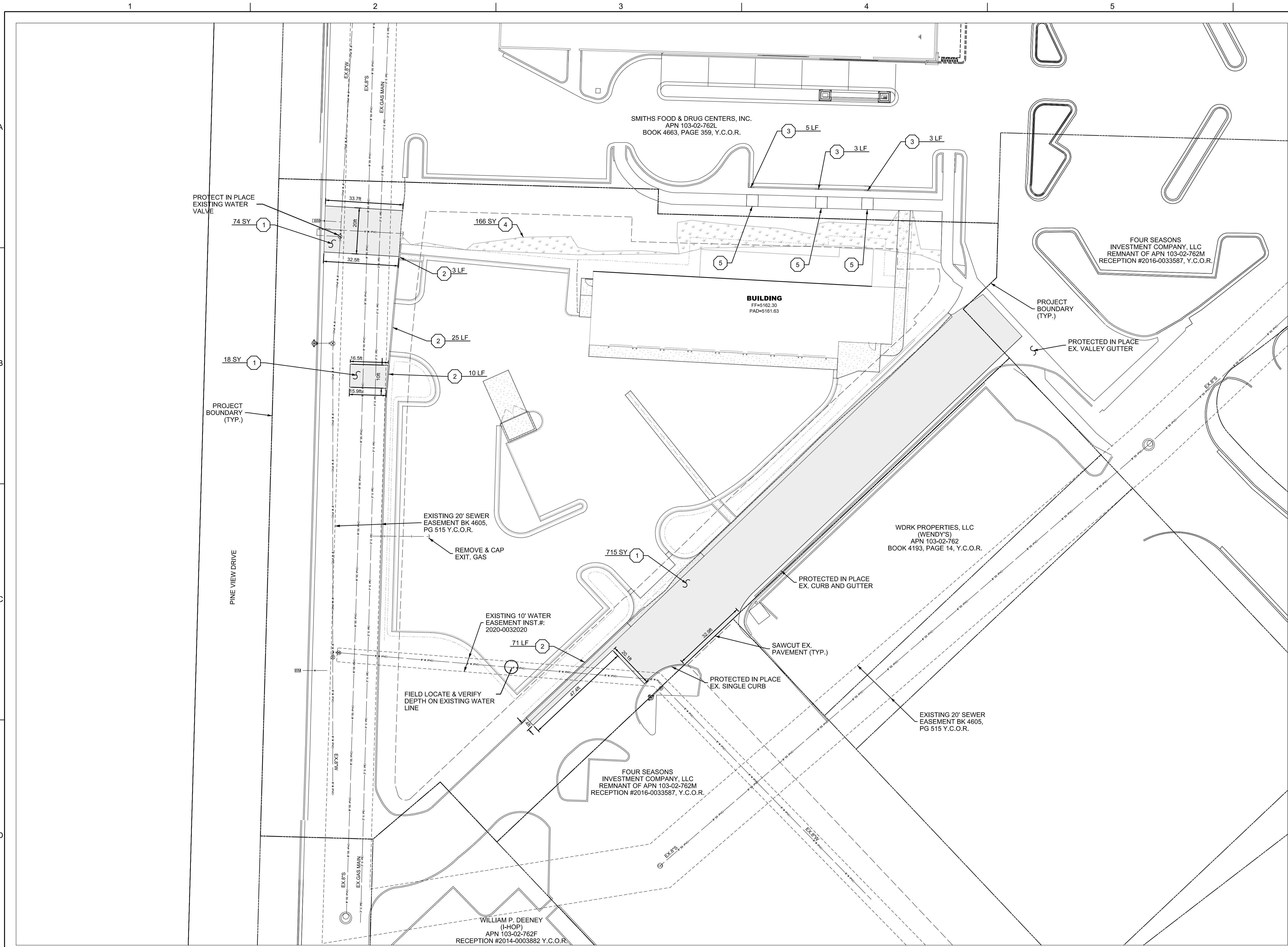




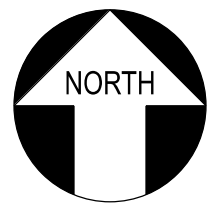








- REMOVAL KEY NOTES**
- 1 REMOVE EX. ASPHALT PAVEMENT AND BASE COURSE DOWN TO EX. SUITABLE SUBGRADE APPROX. 24" BELOW FINISHED SUBGRADE ELEV.
  - 2 SAWCUT AND REMOVE EX. SINGLE CURB.
  - 3 REMOVE EX. CURB AND GUTTER.
  - 4 REMOVE EX. LANDSCAPING.
  - 5 SAWCUT AND REMOVE EX. SIDEWALK AT FULL PANEL.



0 20

DRAWING SCALE  
1" = 20 ft. Horizontal  
(This scale is valid for  
22"x34" sheets only)

VERIFY SCALE

BAR IS ONE INCH ON  
ORIGINAL DRAWING.

0 1"

IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY

DESIGN	DRAWN	CHECKED	APPROVED
RGP	RGP	RGP	RGP
RA	RA	RA	RA
SAL	SAL	SAL	SAL

BY DATE

NO. DESCRIPTION

REVISIONS

DATE

NO.



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(928) 776-1750  
www.lyonengineering.com  
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REMOVAL PLAN

SCOTT A. LYON, P.E.



DATE

JULY 2024

LYON PROJECT #

1697-01

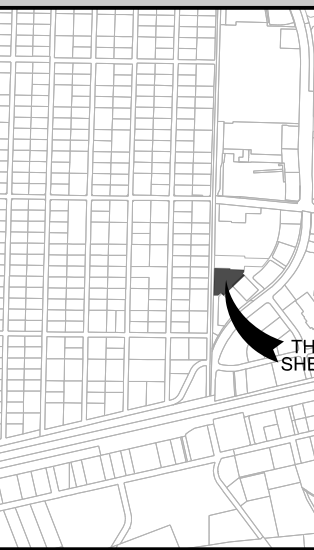
DRAWING NUMBER

R.01

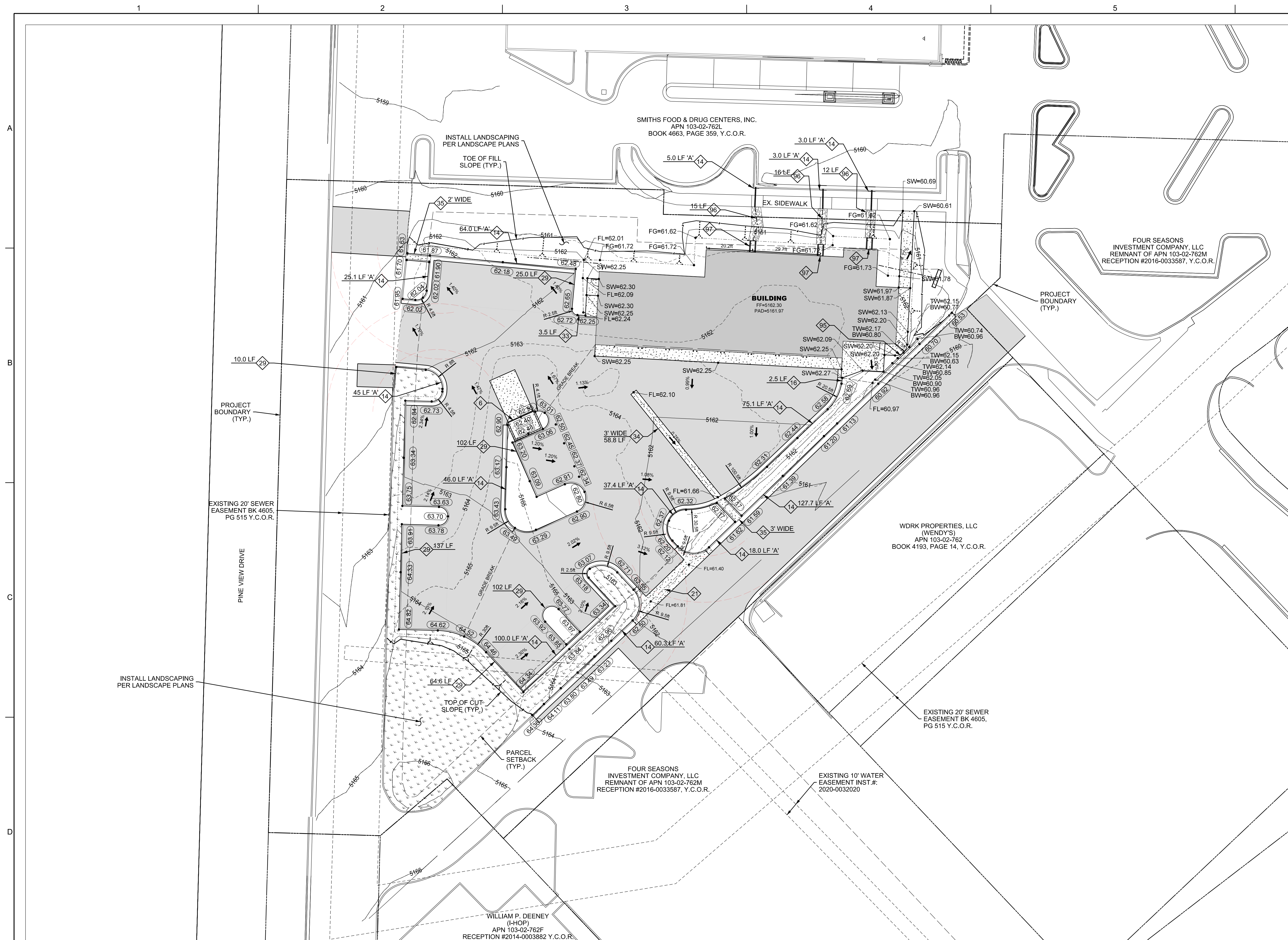
SHEET 6 OF 13

SCALE: 1:20

KEY PLAN

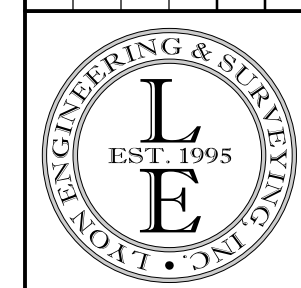
















## ROADWAY & DRAINAGE KEY NOTES

- |    |  |
|----|--|
| 6  | INSTALL SANITATION<br>DUMPSITER PAD PER<br>QUAD CITY STD. DET. 144P  |
| 14 | INSTALL CURB AND GUTTER<br>PER QUAD CITY STD. DET.<br>220Q-1   |
| 16 | INSTALL CURB AND GUTTER<br>TRANSITION PER QUAD<br>CITY STD. DET. 221Q  |
| 21 | INSTALL 6" VALLEY GUTTER<br>& SPANDRELS PER QUAD<br>CITY STD. DET. 240Q-1                                    |
| 29 | INSTALL SINGLE CURB PER<br>MAG STD. DET. 222 TYPE A  |
| 33 | INSTALL SINGLE CURB -<br>"TERMINATION" PER<br>MAG STD. DET. 222  |
| 34 | INSTALL 3" VALLEY GUTTER<br>PER DETAIL D-2 ON<br>DRAWING D-01  |
| 35 | INSTALL CURB OPENING AND<br>CONCRETE SPILLWAY<br>PER DETAIL D-1 ON<br>DRAWING D-01                           |
| 95 | INSTALL GEOSTONE TYPE<br>RETAINING WALL FOR<br>HEIGHTS LESS THAN 3 FT<br>PER MANUFACTURERS<br>RECOMMENDATION |
| 96 | INSTALL 1' DEEP<br>CHANNEL (2:1) WITH<br>RIPRAP, D50=6"  |
| 97 | INSTALL CONCRETE<br>ROOF DRAIN PAD, SLOPED<br>AT 2% MIN., DET. D-1   |


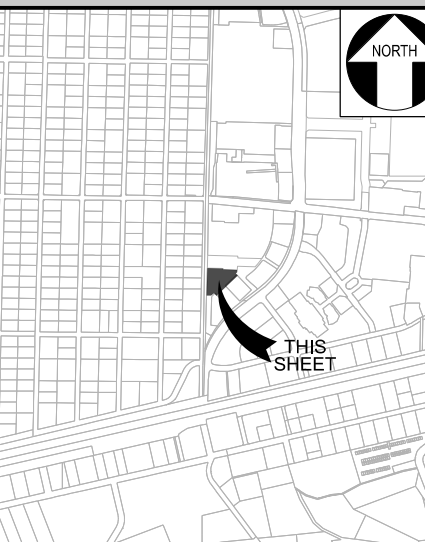
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1650 Willow Creek Road  
Prescott, AZ 86301  
(928) 776-1750  
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## SYMBOL LEGEND

	MONUMENT LOCATION
	BACK OF CURB ELEV.
	EDGE OF PMV ELEV.
FG=01.00	FINISH GRADE ELEV.
FL=01.00	FLOW LINE ELEV.
-- 5000 --	EXISTING 1' CONTOUR
- 5000 -	PROPOSED 1' CONTOUR
- C -	TOP OF CUT SLOPE
- F -	TOE OF FILL SLOPE
- - - - -	ROAD CENTERLINE
- - - - -	DRAINAGE FLOW LINE
- - - - -	TOP OF CHANNEL OR SHOULDER
- - - - -	PAD GRADING LIMITS
	CULVERTS (WITH HW)
	CATCH BASIN
	STORMDRAIN MANHOLE
	RIPRAP / GROUTED RR EROSION FLOW
<b>188</b>	LOT NUMBER
	DRAINAGE FLOW ARROW
	DETAIL SECTION LABEL
	PAGE DETAIL IS ON

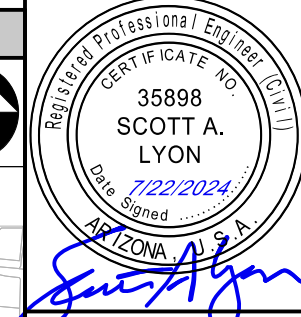
KEY PLAN



PRESOTT VALLEY  
BRAKES PLUS  
IMPROVEMENT PLANS

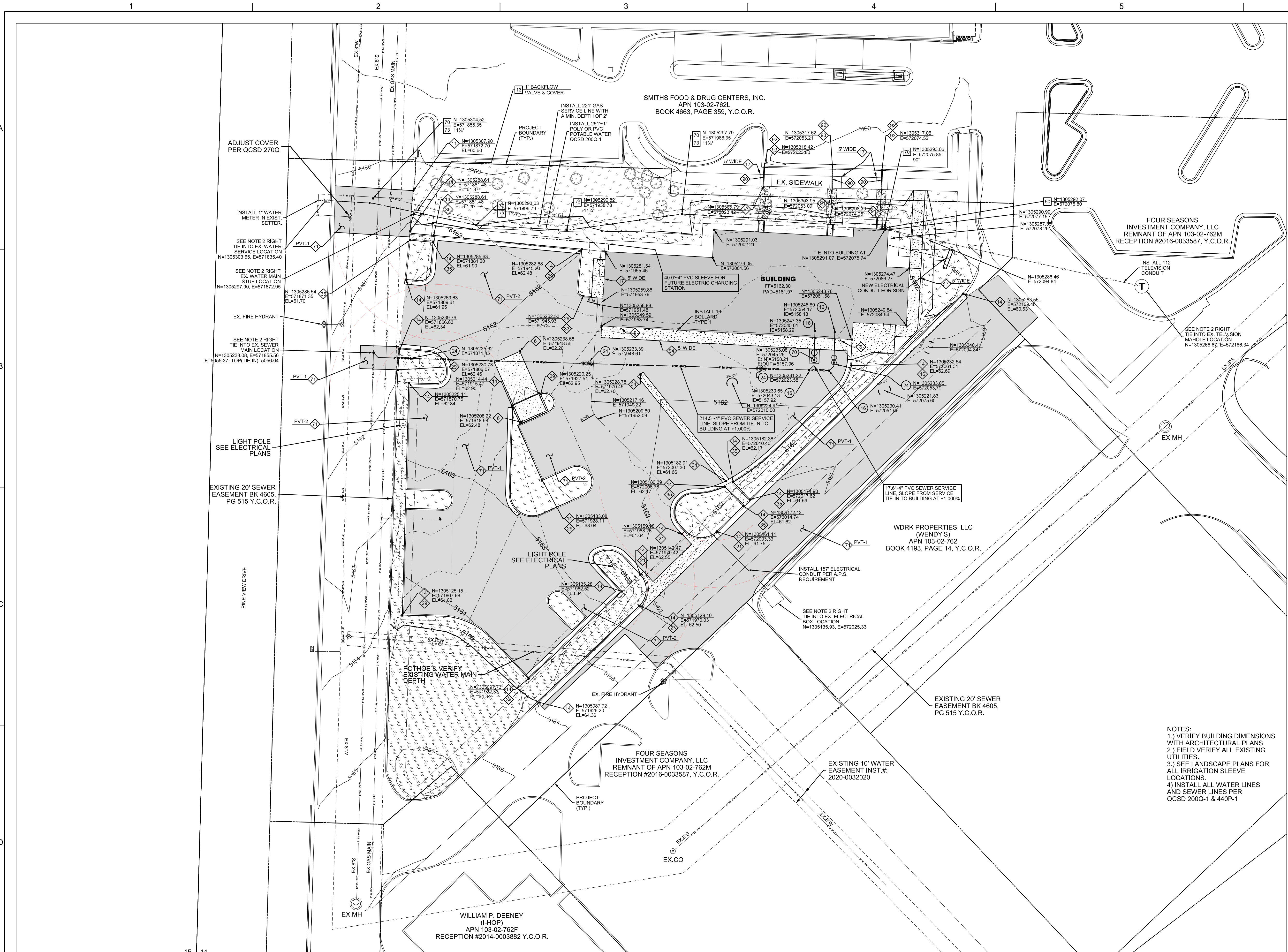
MASS GRADING 1

SCOTT A. LYON, P.E.



DATE	JULY 2024
LYON PROJECT #	1697-01
DRAWING NUMBER	MG.01
SHEET	7 OF 13

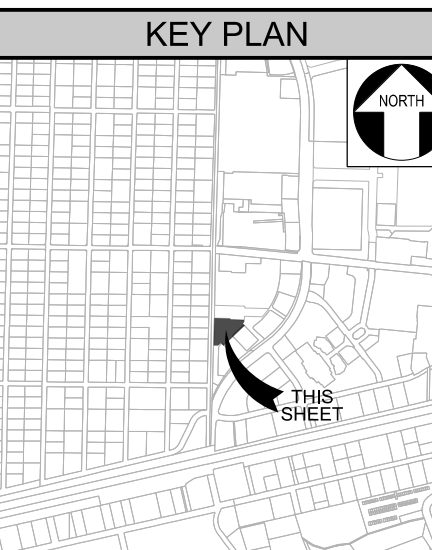




- ROADWAY & DRAINAGE KEY NOTES**
- 5) INSTALL BOLLARD PER QUAD CITY STD. DET. 140Q
  - 6) INSTALL SANITATION DUMPSTER PAD PER COP STD. DET. 144P
  - 11) INSTALL THICKENED PAVEMENT EDGE PER QUAD CITY STD. DET. 201Q
  - 14) INSTALL CURB AND GUTTER PER QUAD CITY STD. DET. 220Q-1
  - 16) INSTALL CURB AND GUTTER TRANSITION PER QUAD CITY STD. DET. 221Q
  - 17) INSTALL SIDEWALK PER QUAD CITY STD. DET. 230Q
  - 21) INSTALL 6" VALLEY GUTTER & SPANDREL'S PER QUAD CITY STD. DET. 240Q-1
  - 29) INSTALL SINGLE CURB PER MAG STD. DET. 222 TYPE A
  - 33) INSTALL SINGLE CURB - TERMINATION PER MAG STD. DET. 222
  - 34) INSTALL 3" VALLEY GUTTER PER DETAIL D-2 ON DRAWING D.01
  - 35) INSTALL CURB OPENING AND CONCRETE SPILLWAY PER DETAIL D-1 ON DRAWING D.01
  - 71) INSTALL TYPICAL SECTION ON DRAWING D.01 FOR PAVEMENT SECTION
  - 90) INSTALL 1 - 9'-4" SCH. 80 PVC DRAIN PIPE SLOPE AT +0.500% FROM EX. CURB TO SOUTH SIDE OF EX. SIDEWALK
  - 91) INLET LOCATION OF 4" SCH. 80 PVC DRAIN PIPE.
  - 92) REMOVE AND REPLACE 1' OF EX. CURB AND GUTTER ON EACH SIDE OF PROPOSED NEENAH STORM WATER CURB OPENING.
  - 93) INSTALL NEENAH R-3262-6 STORM WATER CURB OPENING MATCH EX. TOP OF CURB ELEV. DETAIL N-1 IN DRAWING D.01
  - 94) INSTALL STRUCTURAL SIDEWALK PER ARCHITECTURAL PLANS

- WATER KEY NOTES**
- 13) INSTALL BACKFLOW PREVENTION ASSEMBLY 3" AND UNDER PER QUAD CITY STD. DET. 324Q-1
  - 50) INSTALL G.V.B.&C. PER QUAD CITY STD. DET. 301Q & 391Q
  - 70) INSTALL HORIZONTAL BEND WITH MEGALUG RESTRAINT
  - 73) HORIZONTALLY DEFLECT WATER MAIN PER HALF OF MFR RECOMMENDATIONS

- SEWER KEY NOTES**
- 16) INSTALL SEWER SERVICE LATERAL GREATER THAN 2' DEEP PER QCSD 440P-1 & MAG DET. 440-1.
  - 24) INSTALL SEWER CLEANOUT - DOUBLE PER QUAD CITY STD. DET. 440PV
  - 70) INSTALL JENSEN PRECAST MODEL: JP-500-EE-SO PER MANUFACTURE'S SPECIFICATIONS



**VERIFY SCALE**

BAR IS ONE INCH ON ORIGINAL DRAWING.

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DESIGN	DRAWN	CHECKED	BY	DATE	DESCRIPTION
RGP					
RA					
SAL					
APPROVED					

**REVISIONS**

NO.	DATE	DESCRIPTION

**LYON ENGINEERING & SURVEYING, INC.**

EST. 1995

1650 Willow Creek Road  
Prescott, AZ 86301  
(928) 778-1750  
www.lyonengineering.com  
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**BRAKES PLUS IMPROVEMENT PLANS**

CIVIL

SCOTT A. LYON, P.E.

35898  
SCOTT A. LYON  
7/22/2024

DATE  
JULY 2024

LYON PROJECT #  
1697-01

DRAWING NUMBER  
C.01

SHEET 8 OF 13

SCALE: 1:20



## SIGNAGE AND STRIPING NOTES

- 1 WHITE 4" STRIPING PER MUTCD STANDARDS, 9' ON CENTER (TYPICAL)
- 2 HATCH HANDICAP ACCESS AISLE PER MUTCD STANDARDS
- 3 HANDICAP PARKING SYMBOL
- 4 YELLOW 4" STRIPING FOR HANDICAP STALL PER MUTCD STANDARDS (TYPICAL)

SIGN POST NOTES:  
RESIDENTIAL SIGN POSTS SHALL BE INSTALLED PER QUAD CITY STD. DET. 131Q.

SIGN LOCATION NOTE:  
SIGN LOCATIONS AND ORIENTATION TO BE APPROVED BY TOWN OF PRESCOTT VALLEY TRAFFIC ENGINEER

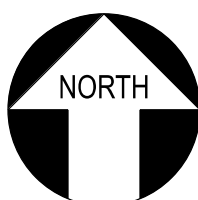
INSTALL SIGN, POST, AND BASE  
PER QCSO 131Q



RESERVED PARKING  
(DISABLED) ARS 28-884  
R7-8A2  
(12' x 18")



NO PARKING FIRE LANE  
R7-22D  
(12' x 18")



0 20

DRAWING SCALE  
1" = 20 ft. Horizontal  
(This scale is valid for  
22"x34" sheets only)

VERIFY SCALE

BAR IS ONE INCH ON  
ORIGINAL DRAWING.

0 1"

IF NOT ONE INCH ON  
THIS SHEET, ADJUST  
SCALES ACCORDINGLY

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RA	RA	RA	RA
SAL	SAL	SAL	SAL

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