

GENERAL NOTES:

- The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.
- Contractor will be required to provide notice to utility companies of minimum of seventy-two (72) hours prior to any excavation, as follows:

Kansas One-Call 687-2470

The Contractor must notify the following in case of an emergency:

| | |
|-------------------------------|----------------|
| AT&T | 1-800-246-8464 |
| Block Hills Energy | 1-800-694-8989 |
| City of Wichita Water & Sewer | 1-316-219-8921 |
| City of Wichita Storm Water | 1-316-268-4090 |
| City of Wichita Traffic | 1-316-268-4034 |
| Cox Communications | 1-888-249-3530 |
| Kansas Gas Service | 1-888-482-4950 |
| Energy | 1-800-544-4857 |

- Utility service lines, poles, etc. are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

- Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits will require additional archaeological investigations unless buried in a previously approved borrow location.

- Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the City Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

- The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

- The Engineering Division shall field locate water valves one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, valve boxes or fire hydrants damaged during construction shall be repaired by Contractor at his own expense. Valve boxes and water meters within the project limits shall be adjusted to match final grades by the contractor.

- The Contractor shall notify the inspecting engineer and Dawnita Reinhardt of 316-268-4574 with the City of Wichita with the anticipated construction start date and notify them of project completion. Staking and inspection for this project will be the responsibility of the Contractor.

- If traffic will be impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, Mike Armour at traffic@wichita.gov before construction can begin. The Contractor shall be responsible for all traffic control measures to facilitate construction. All construction zone markings and signage shall conform to the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Dept of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be the Contractors responsibility.

- All elevations shown ore NAVD 88.

- All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.

- Any sidewalk, drive approach, curb, or street pavement removed to construct project must have a pavement cut permit and be replaced by the City contractor. Permits can be obtained by calling 316-268-4501 or 316-268-4480.

- All applicable fees (top, equity, in lieu of & main benefit) must be paid before any connections can be made on this project. Quotes can be obtained on fees by calling 316-268-4555.

- City maintenance of water mains ends at right-of-way or easement line or within two feet of vault.

- Opening and closing of water valves shall be done slowly to prevent damage to the water distribution system from water hammer. All valves closed by the contractor must be reopened as new construction permits. The project inspector must ascertain that any valve closed by the Contractor is reopened. The contractor will be permitted to operate water valves only when the project inspector assigned to the project is present.

- The Contractor shall lay a Tracer Wire and Set Test Stations along all water pipe installed in accordance with City Specifications and Tracer Wire Detail on detail sheet WL-101, cost is subsidiary to pipe installation.

- The contractor shall provide materials for temporary blowoff of waterlines. Connections to the existing waterline(s) shall be made with clean, swabbed pipe and flushed upon completion of tie-ins.

- Requests for short term water interruptions shall be made to the City Water Distribution Division and will be subject to their approval. The Contractor shall give written notice to any property owner, business, and/or tenants that will have water service interrupted at least 5 days in advance. Such notifications should indicate the time and date that the water will be turned off and when the service will be restored. No business, property owner, and/or tenants shall be without water service for more than 8 hours. Proposed tie in locations which will affect water service to property owners shall be preformed during non-peak hours.

- The Contractor must schedule the connections to the existing main with the City such that there is a minimum disruption of service. Connections shall be made during periods of low water usage. The Contractor shall submit his proposed schedule for completing work for City approval at least 10 days prior to beginning construction.

- Deflections at pipe joint or couplings shall not exceed the pipe manufactures recommended maximum. Where deflections are greater than the maximum allowed, the contractor shall utilize fittings.

- Any existing joint exposed during excavation shall be replaced if within four feet of proposed joint

- Valves 12 inch and larger are to be operated by the City Water Distribution Division, 48 hours of advance notice is required with the water Dispatch at 316-291-8921.

- All wet taps shall be installed by the City of Wichita. The Contractor will reimburse the City for topping fees prior to tap being made. Unless noted on plans.

- The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the contractors expense.

- Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.

- Wichita Fire Department inspections may be scheduled by calling 316-268-4574.

- Maintain a minimum of 10-foot horizontal separation between all water lines (mains, services, and fire hydrants) and all sanitary sewer lines (mains, services, and manholes). All separation distances are to be measured from edge-to-edge at the closest point.

- Maintain a minimum of 2-foot vertical separation between all water lines (mains and services) and all gravity sanitary sewer lines (mains, services, and manholes) at crossings. All separation distances are to be measured from edge-to-edge, at the closest point.

- Maintain a minimum of 2-foot vertical separation between all water lines (mains and services) and all pressurized sanitary sewer lines (force mains and services) at crossings. Waterlines must always be placed above pressurized sanitary sewer lines where they cross. All separation distances are to be measured from edge-to-edge at the closest point.

PUBLIC IMPROVEMENT PLANS

TO SERVE

CEDARHURST WICHITA

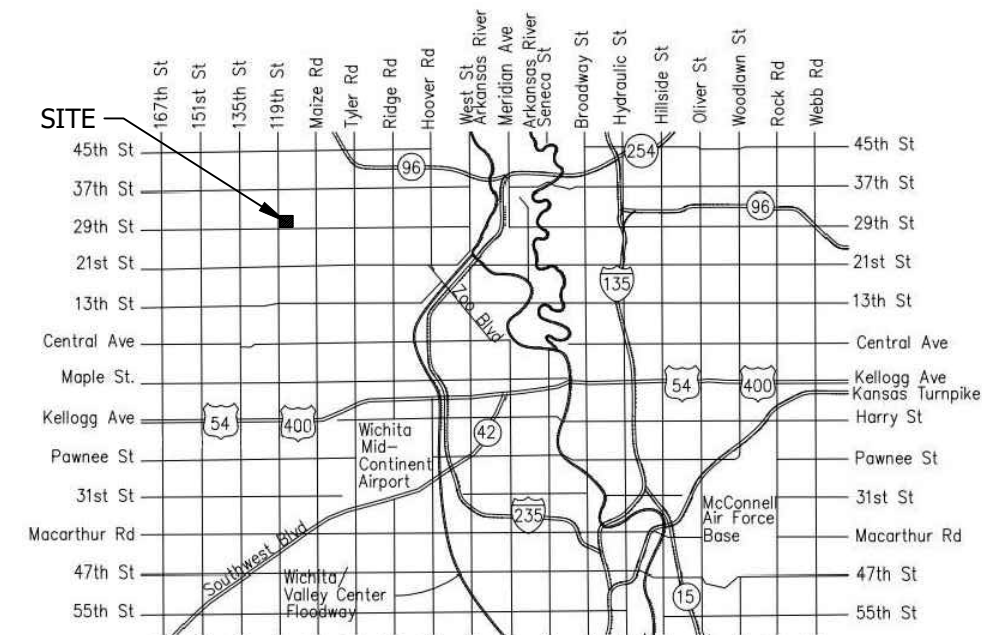
WATER LINE IMPROVEMENTS

CITY OF WICHITA, KANSAS
 GARY JANZEN, P.E. CITY ENGINEER
 CITY OF WICHITA PROJECT NO. 2022-033948 PPW 54030980

Contractor:
McCullough
Excavation
 2 May 23

AS BUILTS

Project Inspector:
Eric Miner
KEMILLER
ENGINEERING PA
 117 E. Lewis, Wichita, KS 67202 (316)264-0242



VICINITY MAP

SHEET INDEX

| | |
|-------------|---|
| CVR | COVER SHEET |
| C1.0 | LAYOUT & QUANTITIES |
| C2.0 - C2.3 | WATER LINE PLAN AND PROFILE |
| C3.0 | EROSION AND SEDIMENT CONTROL PLAN |
| C4.0 - C4.2 | STANDARD DETAILS FOR EROSION AND SEDIMENT CONTROL |
| C4.3 - C4.6 | STANDARD DETAILS FOR WATER LINES |
| C5.0 | TRAFFIC CONTROL PLAN |
| | BAUGHMAN SURVEY (FOR REFERENCE) |

APPROVED AS NOTED
 BY WICHITA PUBLIC WORKS
 ENGINEERING DIVISION
 & BY WICHITA FIRE DEPARTMENT

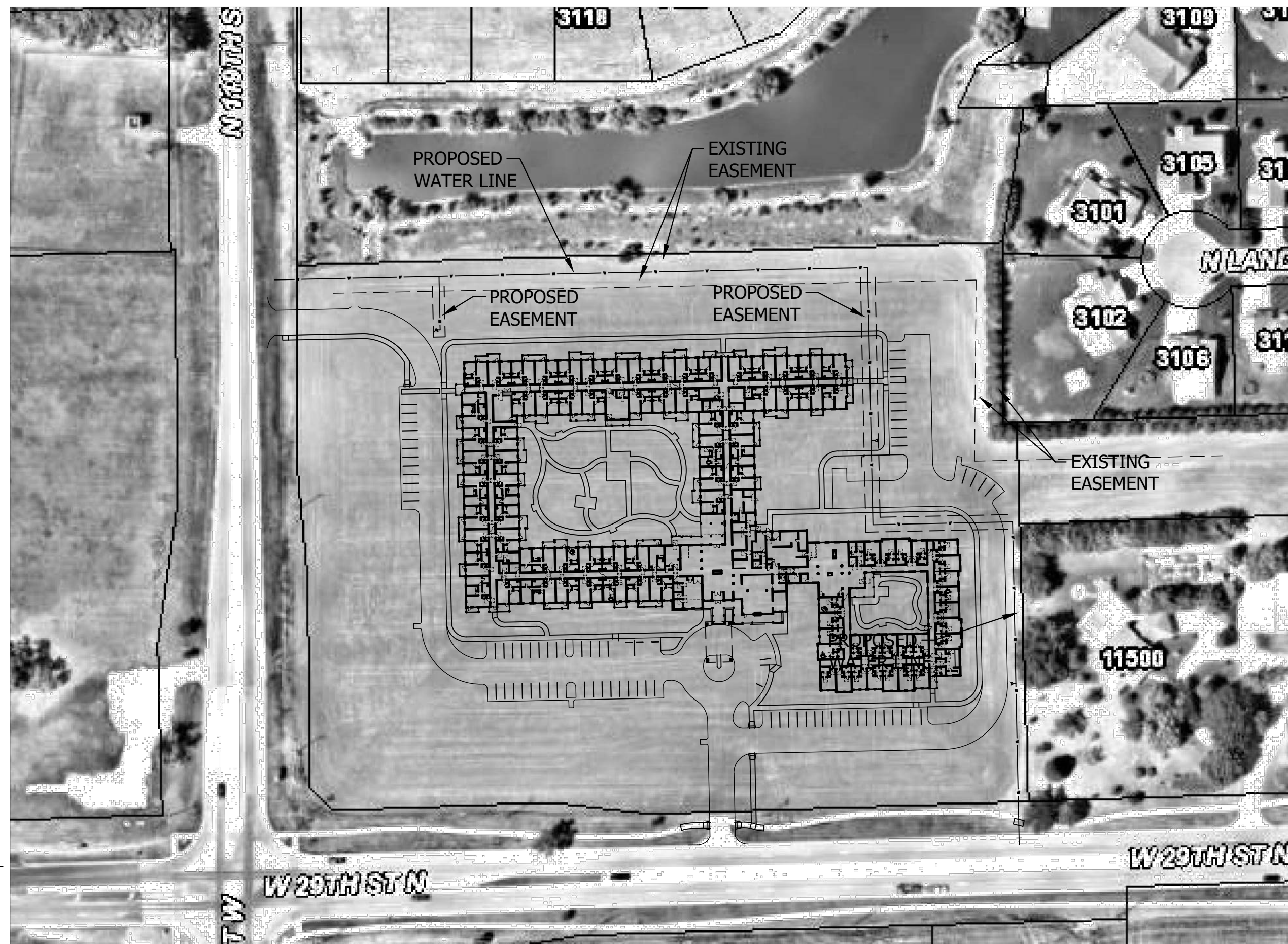
| | | |
|-------------|---------------|------------|
| Engineering | Shawn Mellies | 01/19/2023 |
| Utilities | Greg Lolley | 01/19/2023 |
| Fire Dept. | Jose Ocadz | 01/19/2023 |

NOTE TO CONTRACTORS

Public Property:
 Inspection and testing for the waterline is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection is to be in accordance with the City of Wichita standard construction engineering practices and certified by a Professional Engineer Licensed in the state of Kansas. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by City Engineering. All Construction and Materials shall comply with the City or Wichita Specifications and Standards and Special Provision (on file and available in the City Engineer's Office) or on the City's Website.

Private Property:
 Installation and testing for the fire protection line is to be performed by a City of Wichita licensed fire protection contractor in accordance with the fire codes as adopted by the City of Wichita. All material and construction practices for the fire protection line shall comply with the fire codes as adopted by the City of Wichita (available from the City of Wichita Fire Department). The Contractor shall not commence work without notification and approval of the Wichita Fire Department. Inspection of the fire protection line is to be provided by a licensed Engineering Firm under contract with the Owner/Developer and the Fire Department. The contractor shall not start work until the project inspector is assigned to the project and present on the site. Any work done without inspection will be required to be uncovered for inspection.

An approved copy of these plans signed by City staff are required on-site.



THE SW 1/4 OF SW 1/4 SECTION 41, T 26 S, R 01 W

PROJECT LOCATION MAP

SCALE: 1" = 100'±

CONSULTING ENGINEER INFORMATION

BARTLETT & WEST
 544 COLUMBIA DRIVE LAWRENCE, KS 66049
 785-749-9452
 CASEY COLBERN, P.E.
 CASEY.COLBERN@BARTWEST.COM

BENCHMARK
 SMALL RAILROAD SPIKE IN NORTH SIDE OF
 POWER POLE, SOUTH SIDE 29TH ST. N.,
 4TH POWER POLE EAST OF 119TH ST. W.
 ELEVATION = 1370.91 (NAVD88)
 1370.44 (NGVD29)

Sanderson C-900
Sigma Fittings
Clow Valves
Clow Fire Hydrants

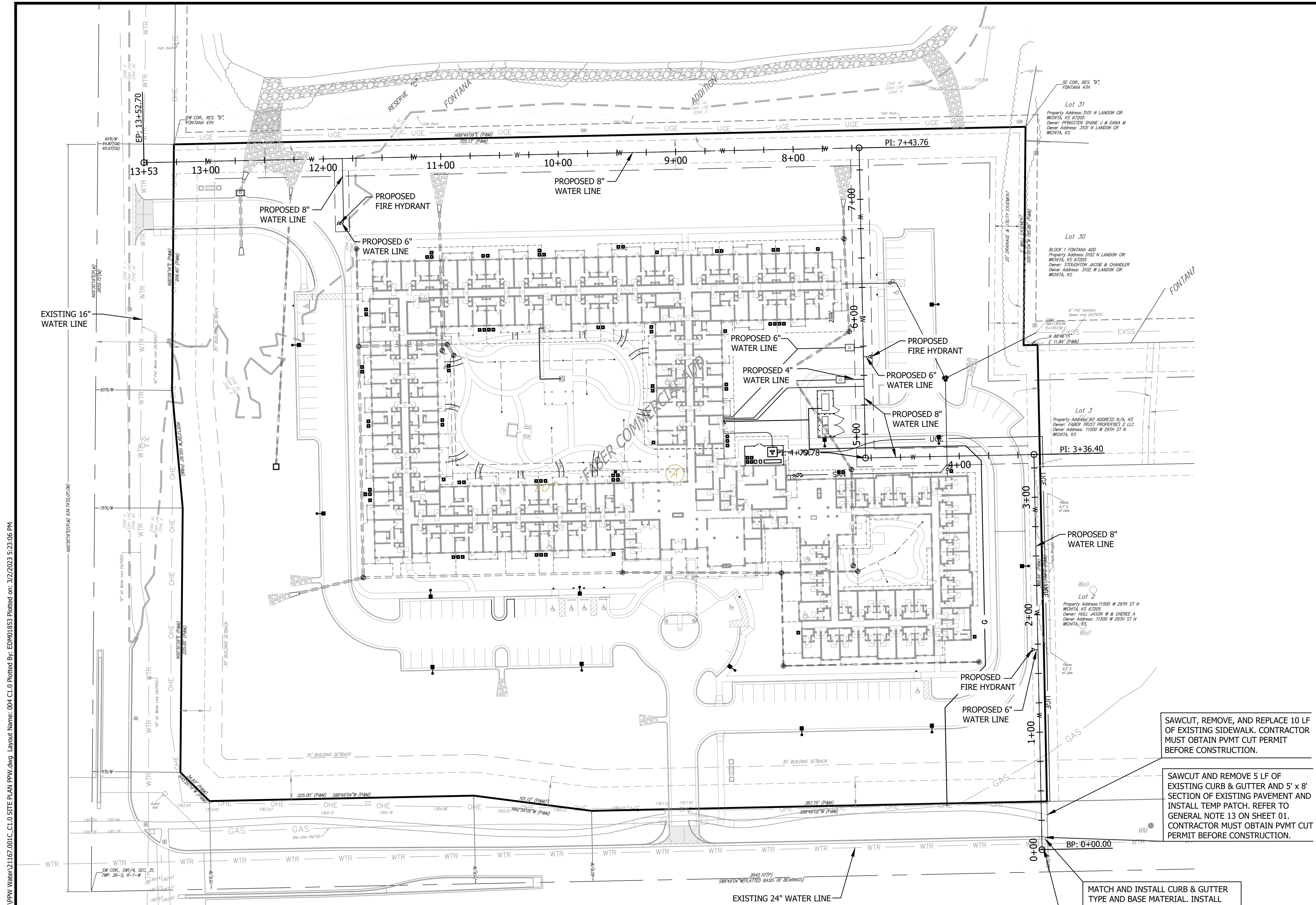
Bartlett & West

PUBLIC IMPROVEMENT PLANS FOR CEDARHURST WICHITA

CONSTRUCTION SET



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 DRAWN BY: EDM
 APPROVED BY: ACS
 DESIGN PROJ: 21167.001
 CONST PROJ:
 SCALE: AS NOTED
 DATE: 03/03/2023
 DRAWING NO:
CVR
 SHEET NO: 01 of 16



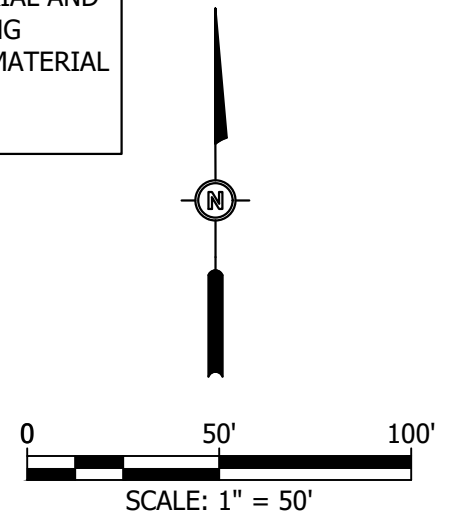
BENCHMARK
 SMALL RAILROAD SPIKE IN NORTH SIDE OF
 POWER POLE, SOUTH SIDE 29TH ST. N., 4TH
 POWER POLE EAST OF 119TH ST. W.
 ELEVATION = 1370.91 (NAVD88)
 1370.44 (NGVD29)

MATCH AND INSTALL CURB & GUTTER
 TYPE AND BASE MATERIAL. INSTALL
 TWO 10" LONG TIE BARS ON EACH SIDE
 OF CURB REPLACEMENT. CORE DRILL
 INTO EXISTING CURB 5 INCHES.

MATCH AND INSTALL BASE MATERIAL AND
 ASPHALT PAVING. MATCH EXISTING
 THICKNESS. COMPACT BACKFILL MATERIAL
 AND BASE MATERIAL PER CITY
 REQUIREMENTS.

SAWCUT, REMOVE, AND REPLACE 10 LF
 OF EXISTING SIDEWALK. CONTRACTOR
 MUST OBTAIN PVMT CUT PERMIT
 BEFORE CONSTRUCTION.

SAWCUT AND REMOVE 5 LF OF
 EXISTING CURB & GUTTER AND 5' x 8'
 SECTION OF EXISTING PAVEMENT AND
 INSTALL TEMP PATCH. REFER TO
 GENERAL NOTE 13 ON SHEET 01.
 CONTRACTOR MUST OBTAIN PVMT CUT
 PERMIT BEFORE CONSTRUCTION.



DEMOLITION NOTES:

- ALL UTILITY INFORMATION SHOWN HEREIN IS BASED ON THE INFORMATION AVAILABLE TO THE DESIGN PROFESSIONAL AT THE TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY ALL UTILITY DEPTHS AND LOCATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO FIELD LOCATE AND/OR ADJUST THEIR UTILITY AS REQUIRED FOR CONSTRUCTION. ALL UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND THE DESIGN PROFESSIONAL ASSUMES NO LIABILITY FOR SAME.
- CARE SHALL BE EXERCISED BY THE CONTRACTOR TO PRESERVE AND/OR PROTECT ANY EXISTING VEGETATION OUTSIDE OF AREAS TO BE GRADED. THE PERSON(S) WHO DAMAGES ANY OF THESE AREAS SHALL BE HELD RESPONSIBLE FOR ALL COSTS OF REPLACEMENT MATERIALS AND LABOR.
- ALL WASTE EXCAVATION, CONSTRUCTION MATERIALS, DEMOLISHED STRUCTURES AND DEBRIS SHALL BE REMOVED FROM THE SITE PER THE CITY OF LAWRENCE, KS STANDARDS AND SPECIFICATIONS.
- ALL EXCAVATED OR OTHERWISE DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AS NEARLY AS IS PRACTICAL. THE REPLACEMENT MATERIALS SHALL BE COMPACTED SO AS TO PREVENT SETTLEMENT. ANY SIDEWALK OR ESTABLISHED LAWN AREAS SHALL BE REPLACED IN KIND OR AS SHOWN HEREIN.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL BARRICADES REQUIRED FOR SAFETY IN AND AROUND THE CONSTRUCTION SITE. CONTINUOUS MAINTENANCE OF TRAFFIC CONTROL DEVICES DURING THE TERM OF THIS PROJECT IS THE CONTRACTOR'S RESPONSIBILITY. ALL TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE LATEST VERSION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
- ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE PROTECTED BY MEANS OF FENCING AND OTHER DEVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THESE STRUCTURES AND CLEAN UP ALL DEBRIS NEAR, ON, OR AROUND THESE STRUCTURES AT COMPLETION OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING REMOVAL AND REPLACEMENT OF ALL UTILITIES ON THIS SITE WITH THE OWNER, AND THE APPROPRIATE UTILITY PROVIDER, ALL UTILITIES INCLUDE, BUT ARE NOT LIMITED TO STORM, SANITARY, GAS, ELECTRIC, WATER, TELEPHONE, AND CABLE.
- THE CONTRACTOR SHALL ESTABLISH STAGING, STORAGE AND PARKING AREAS PER APPROVAL OF THE OWNER. THE AREAS SHALL BE FENCED WITH TEMPORARY FENCING AS APPROVED BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING ALL SURVEY STAKES (CONTROL POINTS, REFERENCE POINTS, BENCH MARKS, PROPERTY AND OFFSET CORNERS, AND ALL OTHER ESSENTIAL HORIZONTAL AND VERTICAL SURVEY CONTROL POINTS) UNTIL CONSTRUCTION ACTIVITY IS COMPLETED. THE CONTRACTOR SHALL PAY FOR RE-STAKING ANY SURVEY STAKES THAT ARE DESTROYED.

QUANTITIES:

| NO. | DESCRIPTION | QUANTITY | UNIT |
|-----|--|----------|------|
| 1 | CONTRACTOR CONSTRUCTION STAKING | 1 | LS |
| 2 | MOBILIZATION | 1 | LS |
| 3 | TEMPORARY EROSION CONTROL | 1 | LS |
| 4 | DEMOLITION & REMOVAL | 1 | LS |
| 5 | TEMPORARY CONSTRUCTION ENTRANCE | 1 | LS |
| 6 | CONCRETE SIDEWALK (4") | 6 | SY |
| 7 | CURB & GUTTER | 5 | LF |
| 8 | ASPHALT PAVEMENT (6") | 1.5 | SY |
| 9 | GRANULAR BASE (4") | 1.5 | SY |
| 10 | 6" WATERLINE | 158 | LF |
| 11 | 8" WATERLINE | 1408 | LF |
| 12 | 4" GATE VALVE WITH VALVE BOX AND COVER | 1 | EA |
| 13 | 6" GATE VALVE WITH VALVE BOX AND COVER | 1 | EA |
| 14 | 8" GATE VALVE WITH VALVE BOX AND COVER | 5 | EA |
| 15 | 8" MJ BEND AND BLOCK | 3 | EA |
| 16 | 8" x 4" MJ TEE AND BLOCK | 1 | EA |
| 17 | 8" x 6" MJ TEE AND BLOCK | 1 | EA |
| 18 | 8" x 8" MJ TEE AND BLOCK | 1 | EA |
| 19 | 8" CAP AND BLOCK | 1 | EA |
| 20 | 16" x 8" TAPPING SLEEVE AND 8" TAPPING VALVE | 1 | EA |
| 21 | 24" x 8" TAPPING SLEEVE AND 8" TAPPING VALVE | 1 | EA |
| 22 | 4" ANCHOR COUPLING | 2 | EA |
| 23 | 6" ANCHOR COUPLING | 3 | EA |
| 24 | 8" ANCHOR COUPLING | 3 | EA |
| 25 | 4" MJ PLUG | 1 | EA |
| 26 | 6" MJ PLUG | 1 | EA |
| 27 | CONNECT TO EXISTING WATER LINE | 2 | EA |
| 28 | FIRE HYDRANT ASSEMBLY | 3 | EA |

Vertical text on the left margin containing drawing information and dates.

Bartlett & West
 544 COLUMBIA DRIVE, LAWRENCE, KS
 785-745-9452
 www.bartlettwest.com

**PUBLIC IMPROVEMENT PLANS
 FOR CEDARHURST WICHITA**

004 C1-0

W 29th ST N & N 119th ST W, WICHITA, KS


CONSTRUCTION SET

ANGELA C. SHARPE
 LICENSED PROFESSIONAL ENGINEER
 KANSAS
 2167

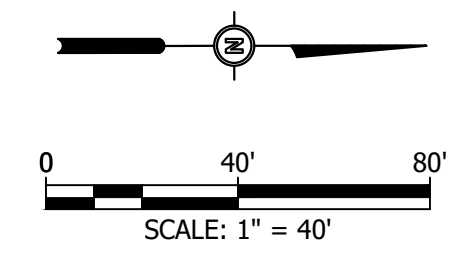
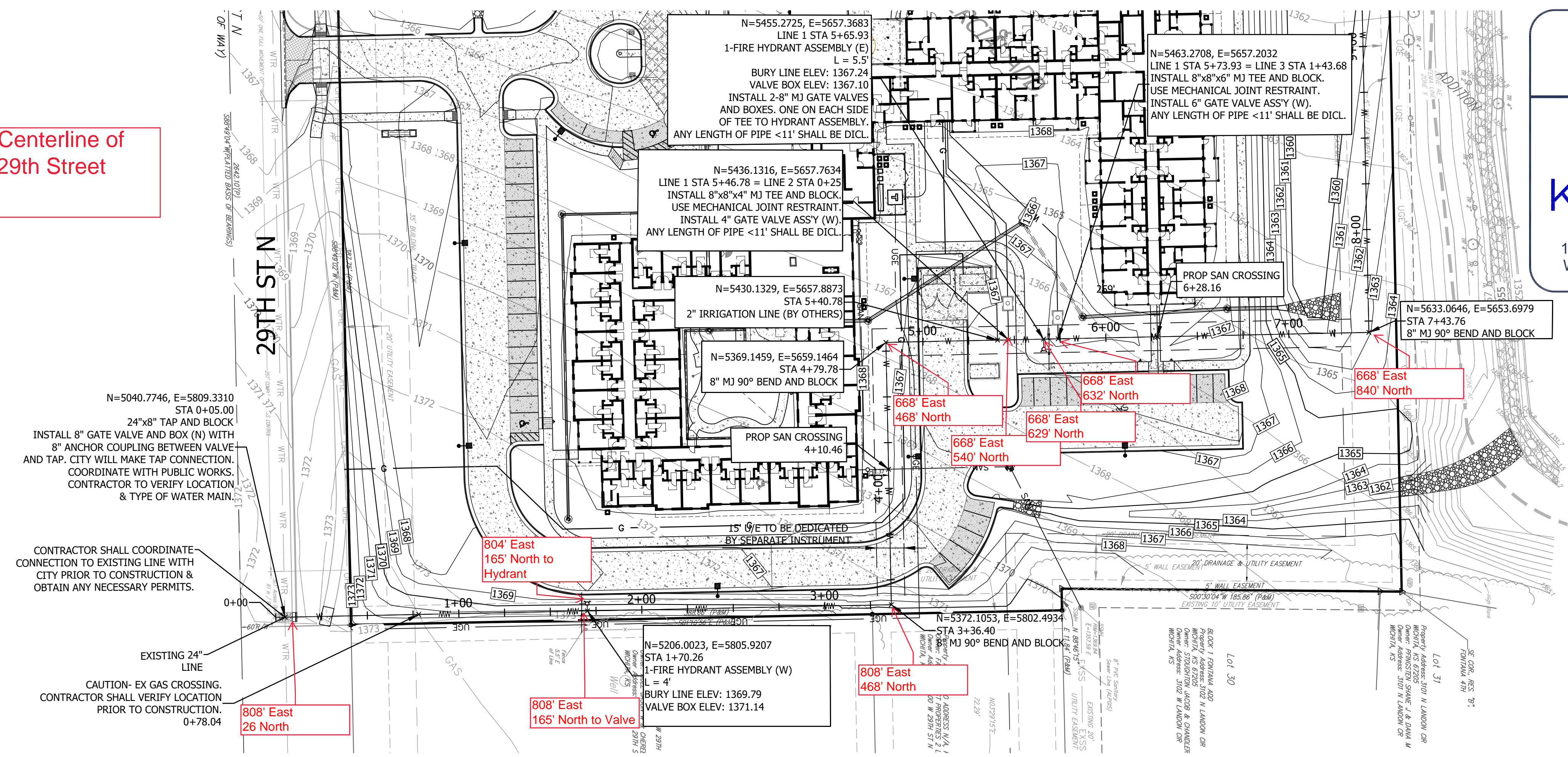
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 DESIGN PROJ: 21167.001
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 SCALE: AS NOTED
 DATE: 03/03/2023
 DRAWING NO:
C1.0
 SHEET NO: 02 of 16

Reference Point: Centerline of 119th Street and 29th Street

AS BUILTS

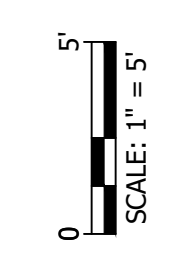
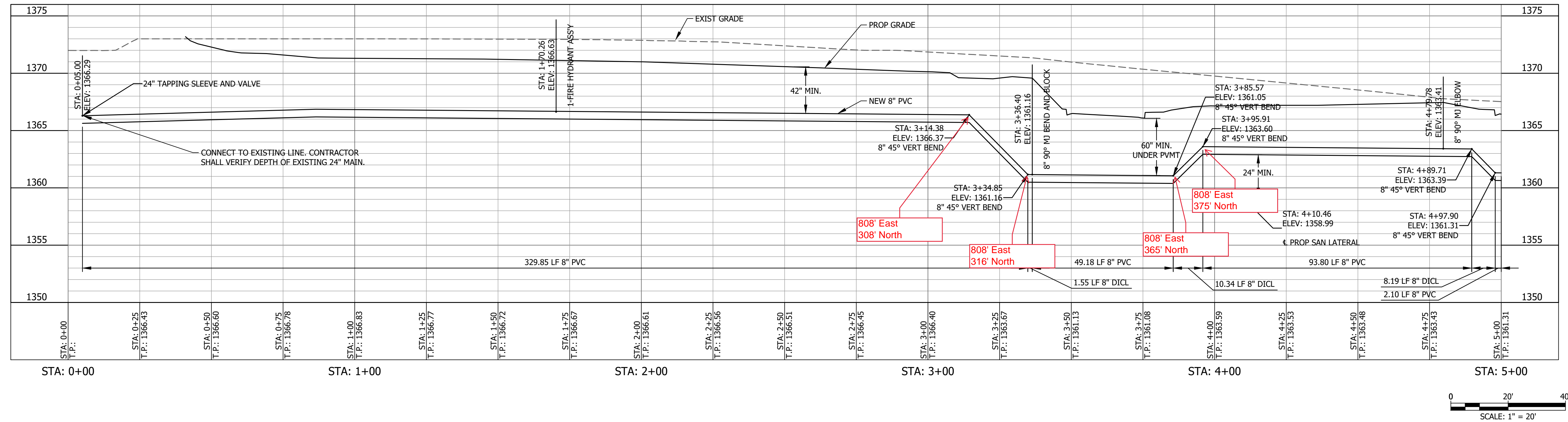


KEMILLER
ENGINEERING PA
117 E. Lewis,
Wichita, KS 67202 (316)264-0242



NOTE: ALL FITTINGS SHALL BE MEGA LUG RESTRAINT JOINT OR APPROVED EQUAL.

WATERLINE 1 - STA: 0+00 - 5+00



| NO. | DATE | DESCRIPTION |
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PUBLIC IMPROVEMENT PLANS FOR CEDARHURST WICHITA

PLAN & PROFILE

W 29th ST N & N 119th ST W, WICHITA, KS


CONSTRUCTION SET



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| SHEET NO: | 03 of 16 |

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ENGINEERING PA

117 E. Lewis,
Wichita, KS 67202 (316)264-0242

| NO. | DATE | DESCRIPTION |
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**PUBLIC IMPROVEMENT PLANS
FOR CEDARHURST WICHITA**

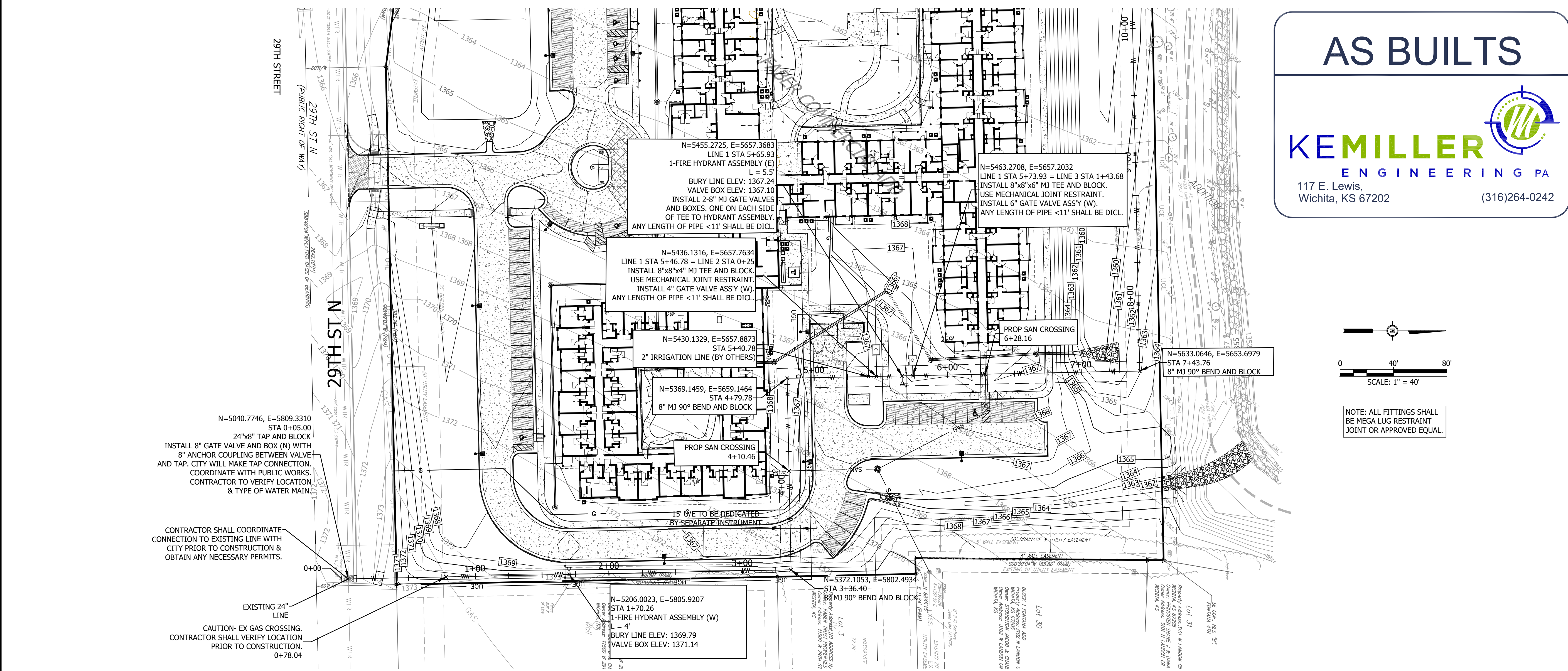
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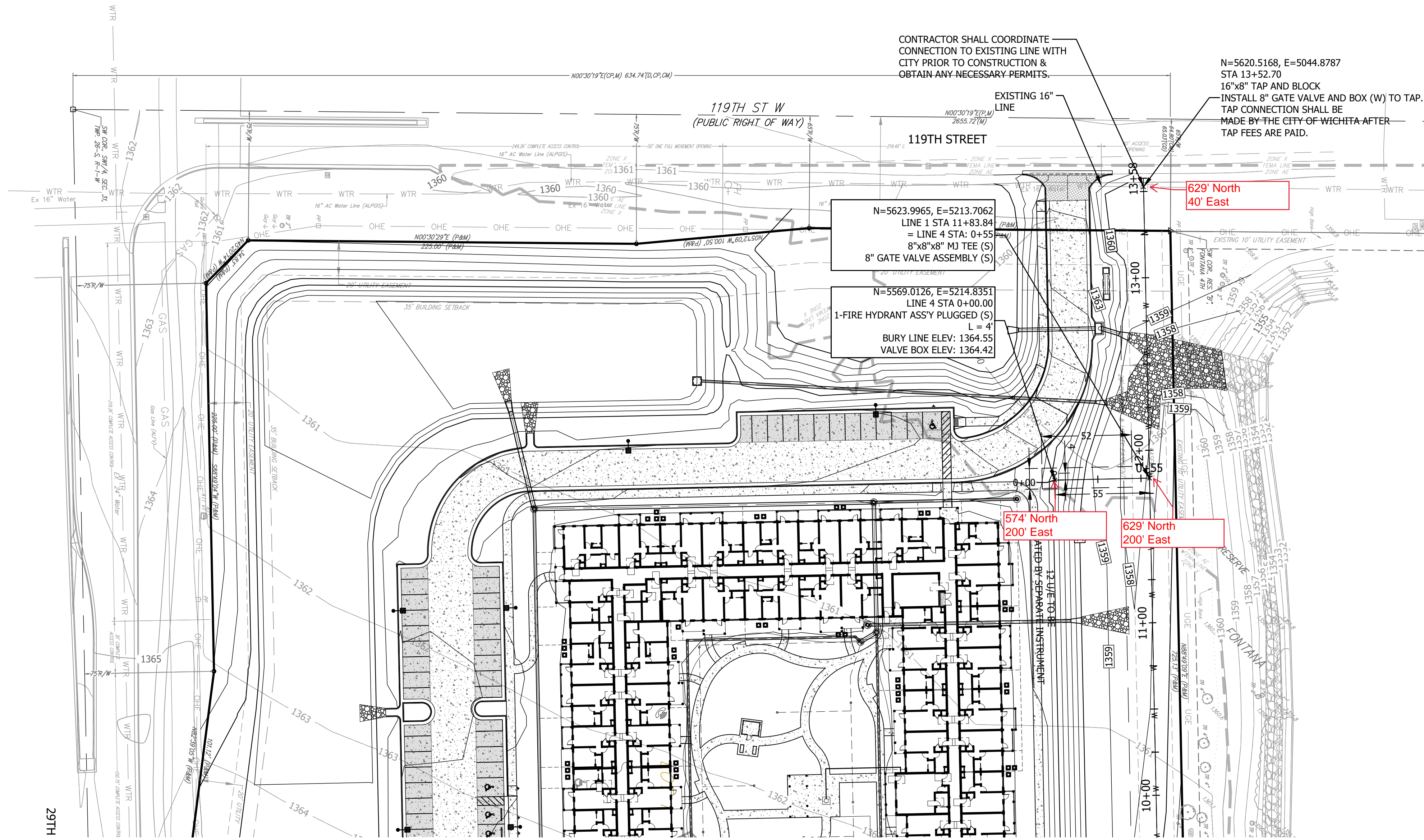
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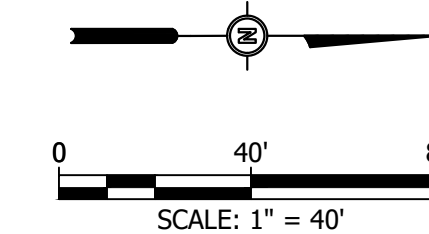
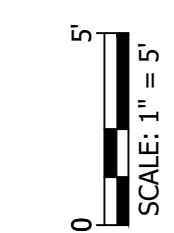
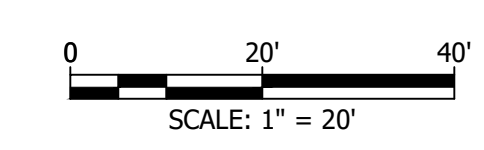
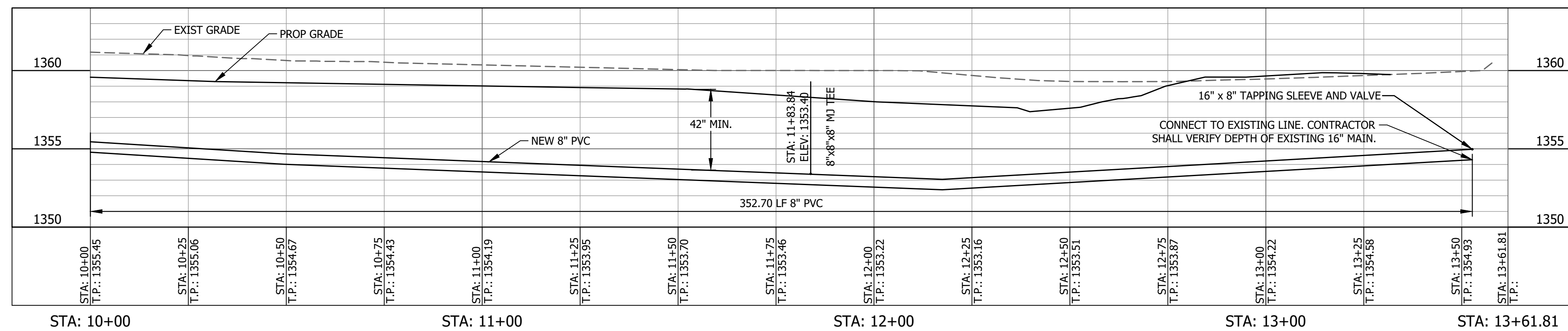


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| SHEET NO: | 04 of 16 |





WATERLINE 1 - STA: 10+00 - 13+61



NOTE: ALL FITTINGS SHALL BE MEGA LUG RESTRAINT JOINT OR APPROVED EQUAL.

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PUBLIC IMPROVEMENT PLANS FOR CEDARHURST WICHITA

PLAN & PROFILE

W 29th ST N & N 119th ST W, WICHITA, KS

CONSTRUCTION SET

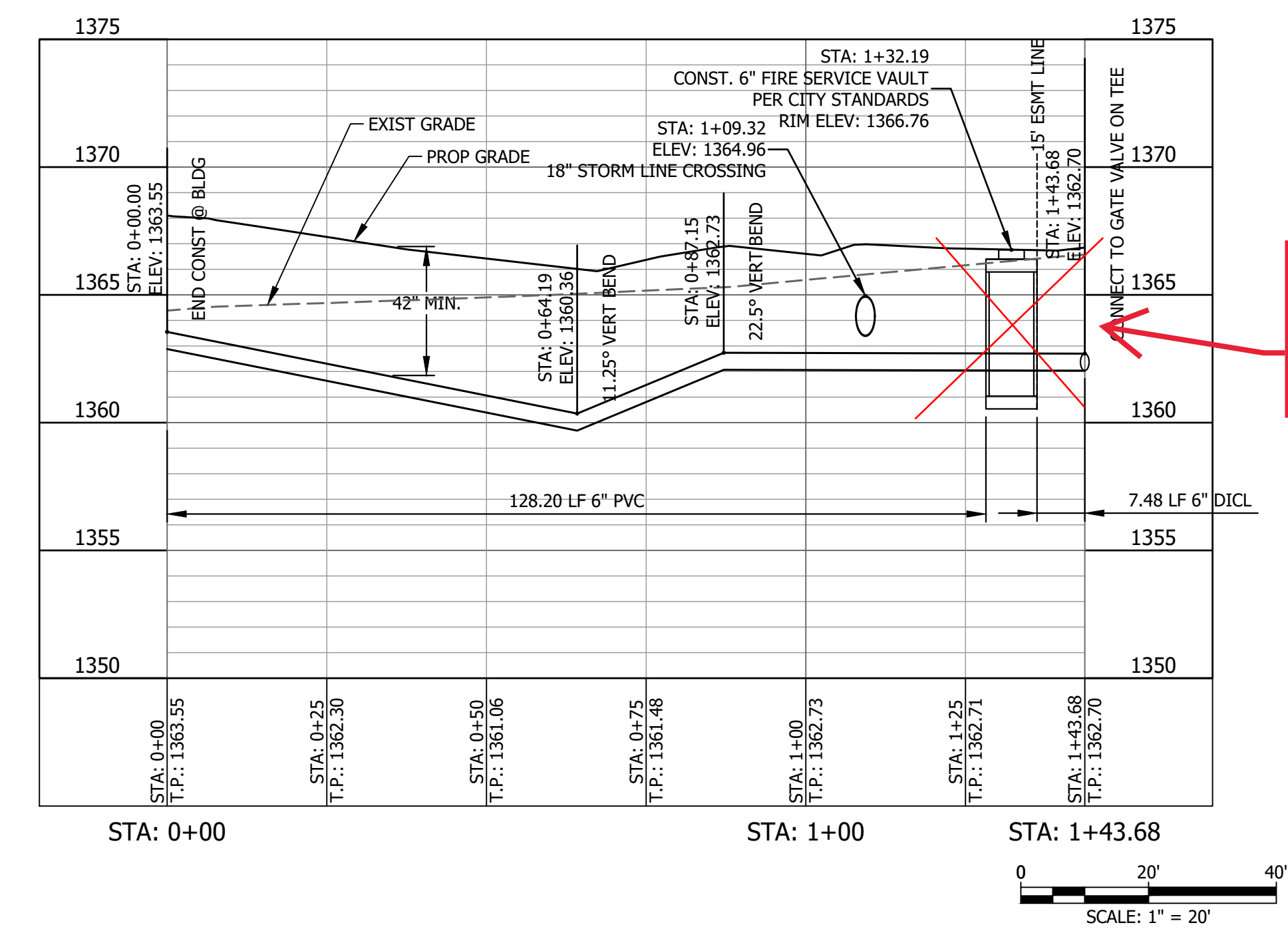
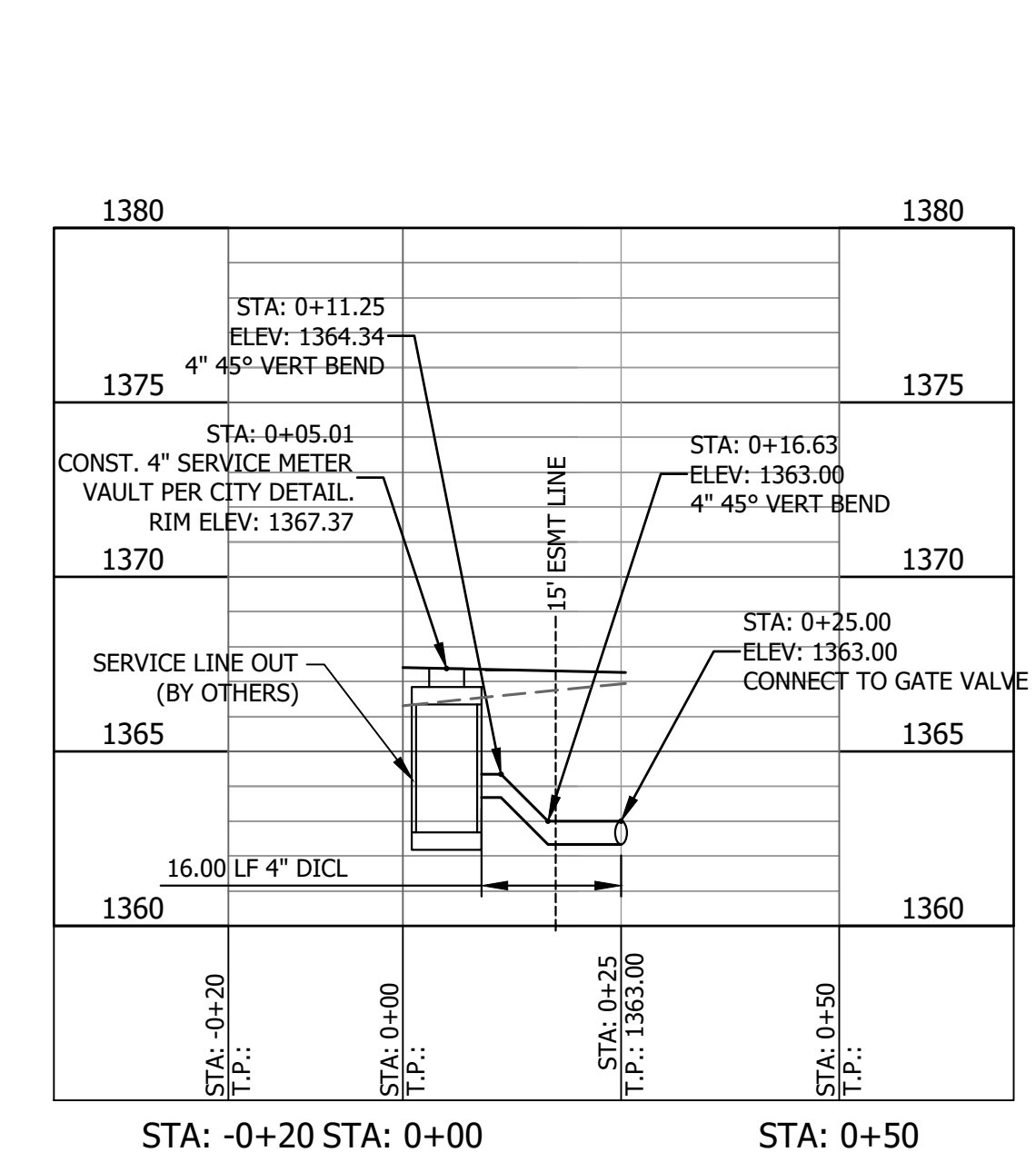
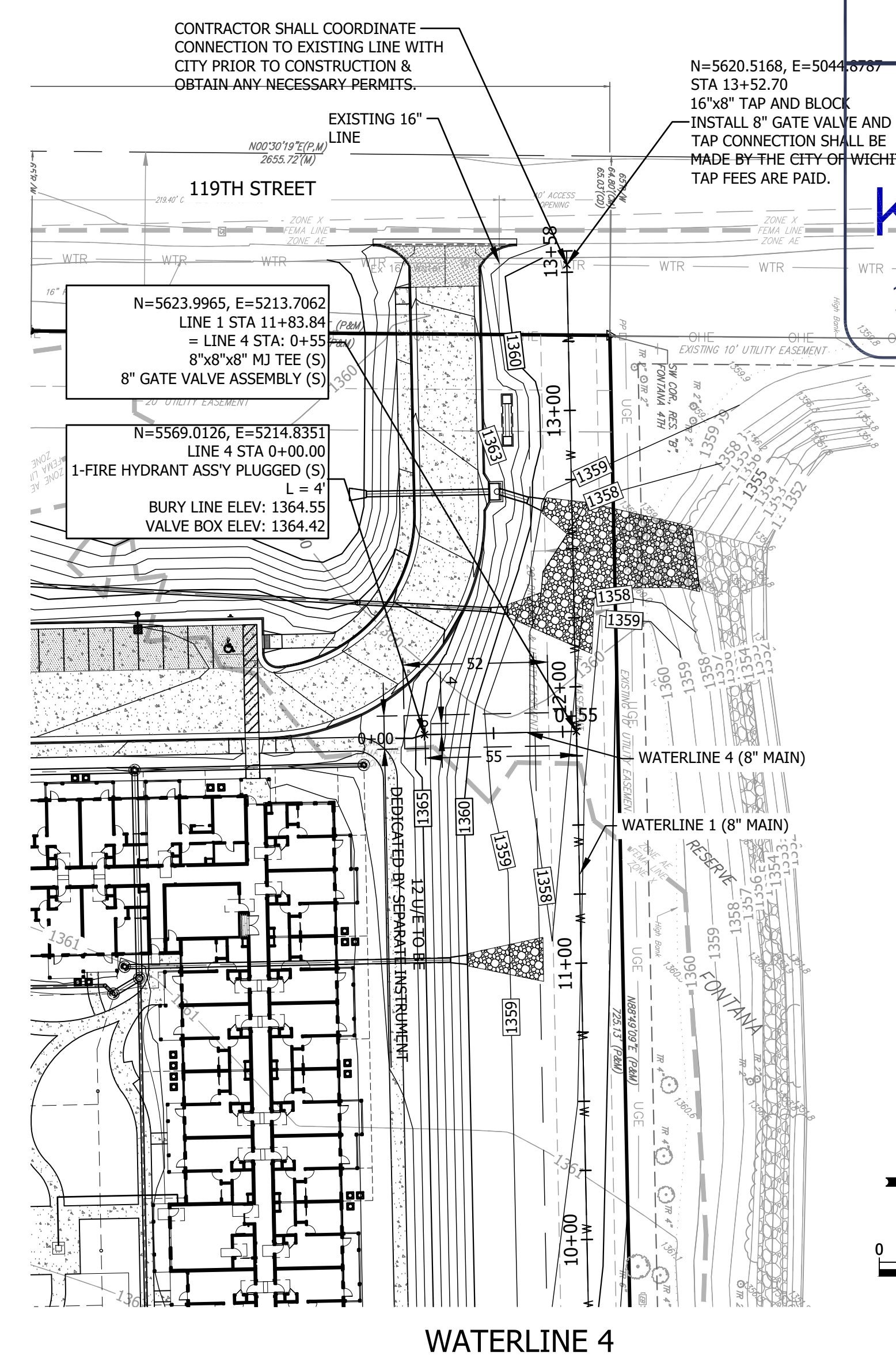
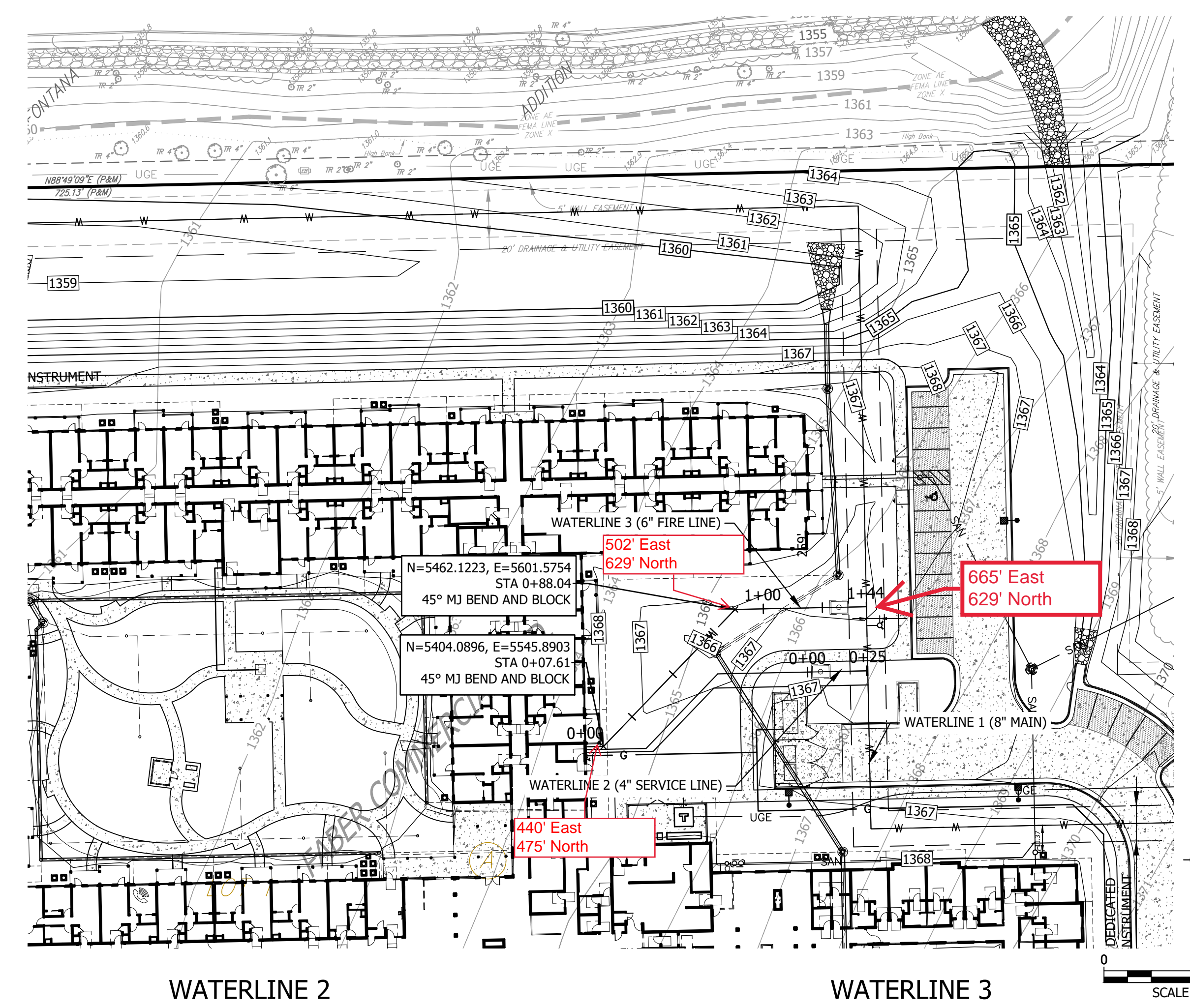


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| SHEET NO: | 05 of 16 |

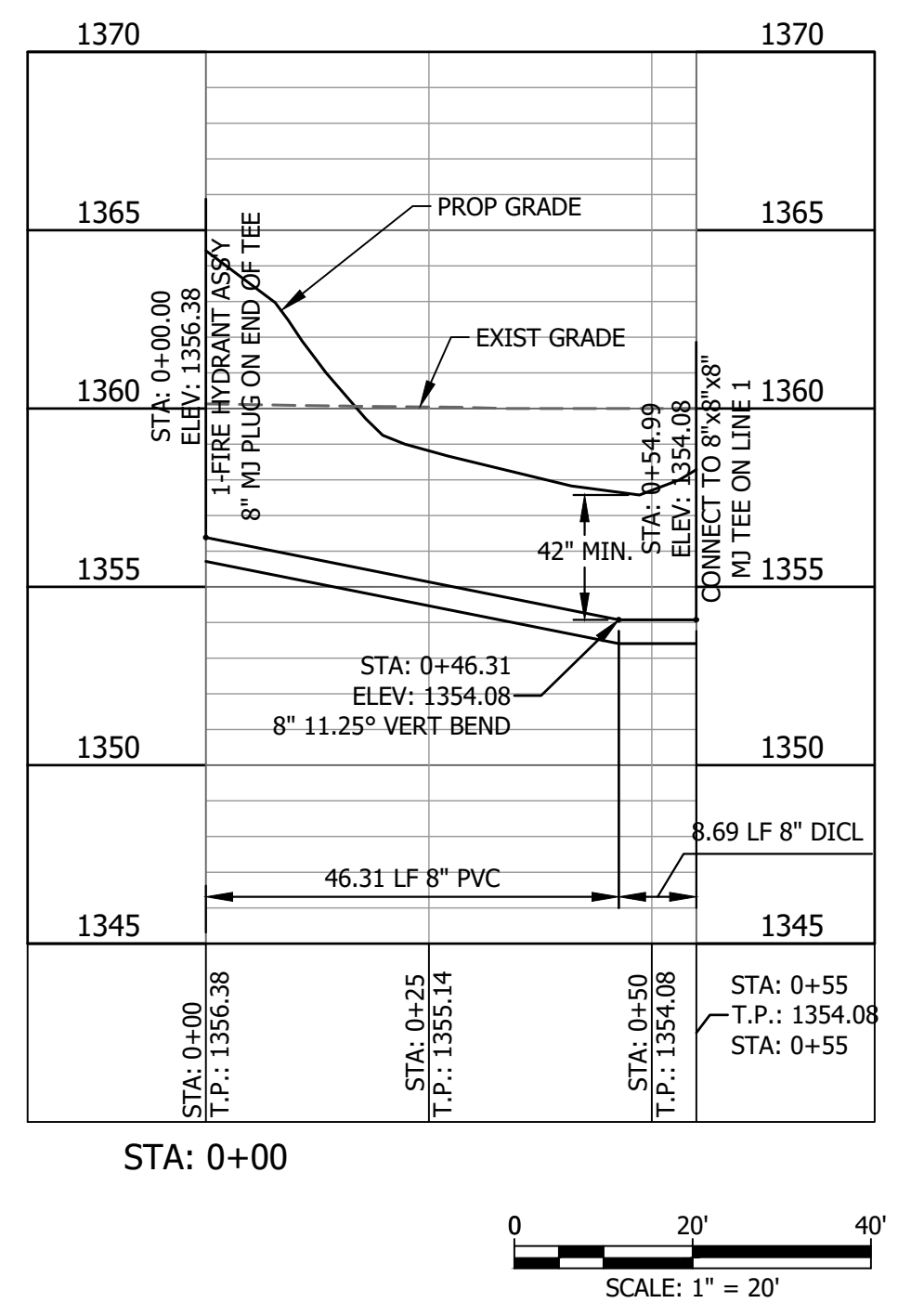
AS BUILTS



KEMILLER
ENGINEERING PA
117 E. Lewis,
Wichita, KS 67202
(316)264-0242



Vault was eliminated, FS contractor installing double detectors inside building.



Bartlett & West

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PUBLIC IMPROVEMENT PLANS
FOR CEDARHURST WICHITA

PLAN & PROFILE

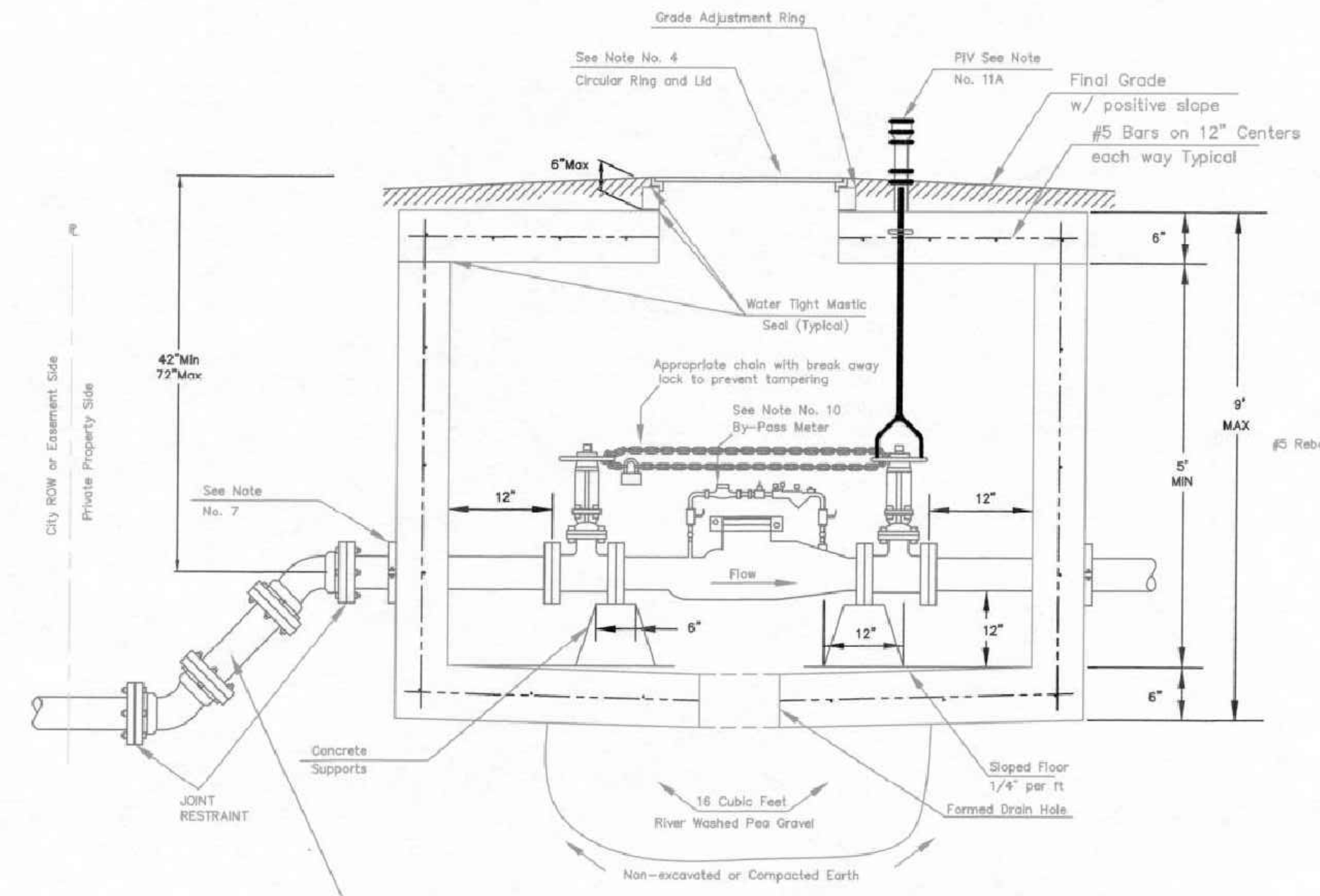
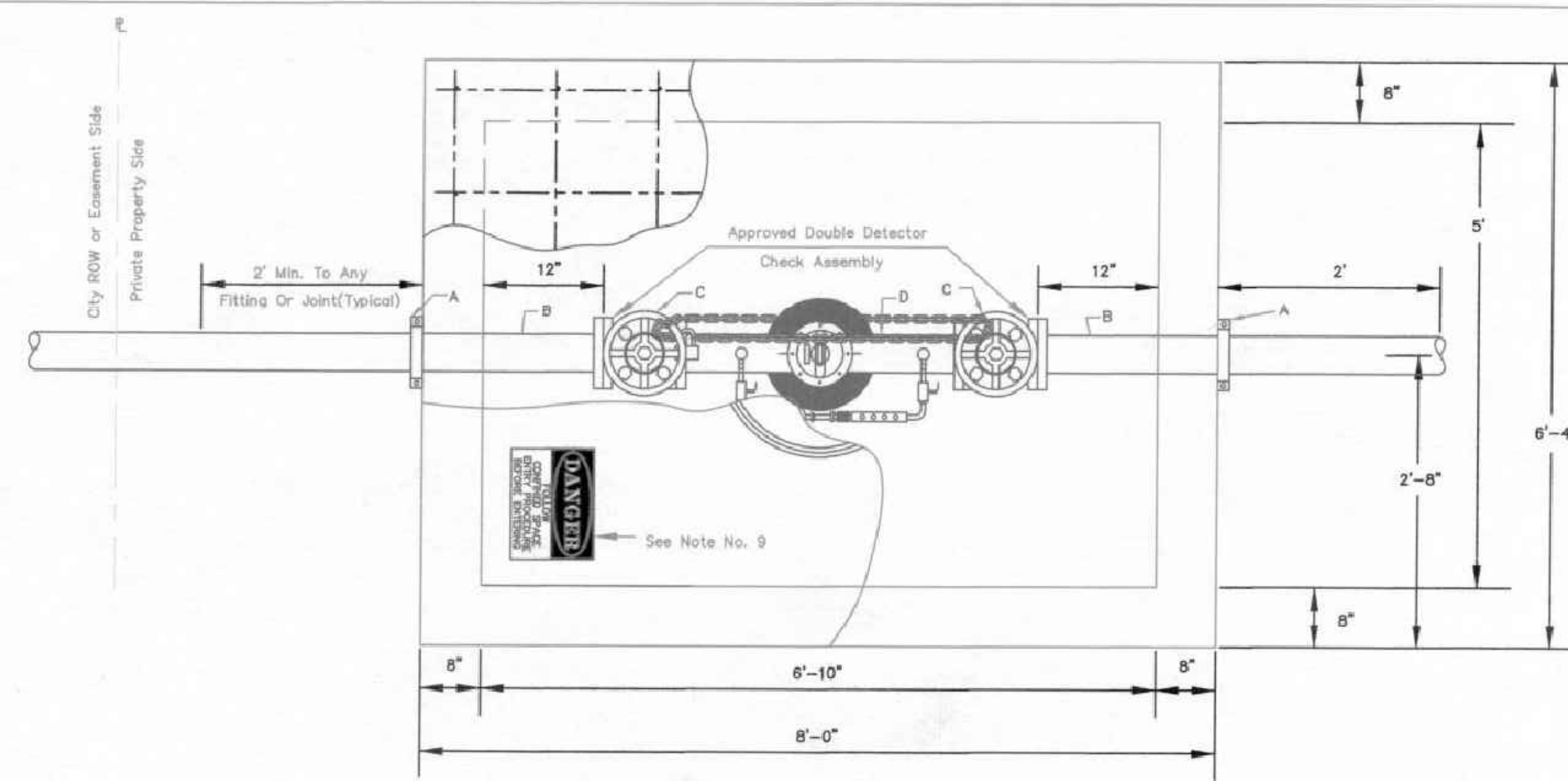
W 29th ST N & N 119th ST W, WICHITA, KS

CONSTRUCTION SET



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SCALE: AS NOTED
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SHEET NO: 06 of 16

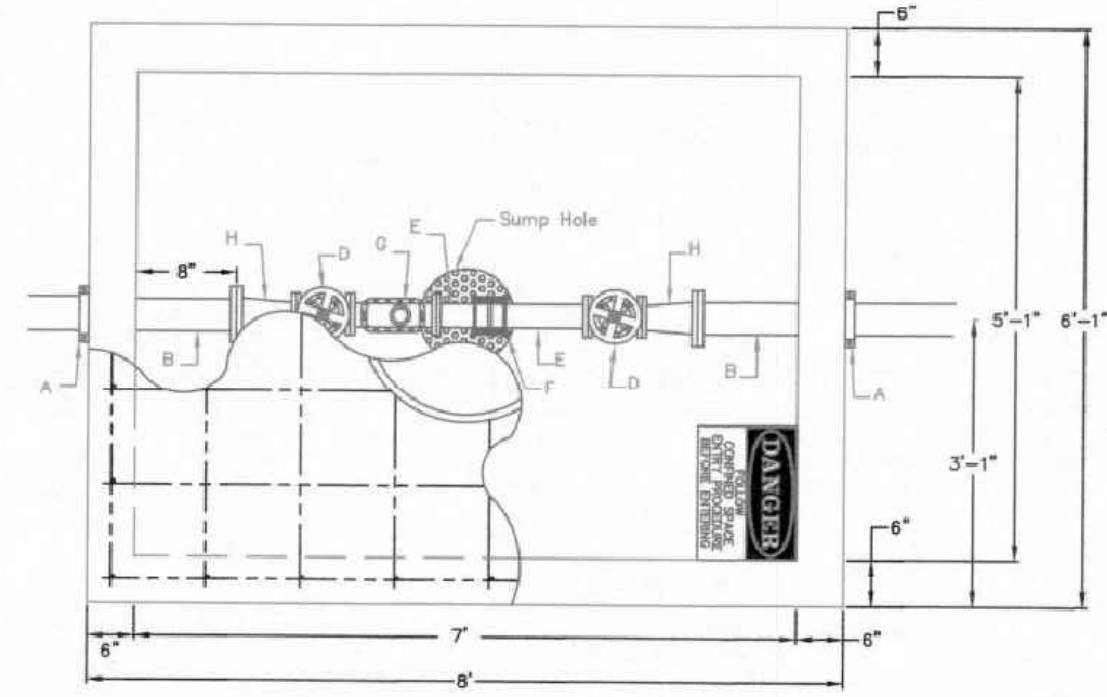
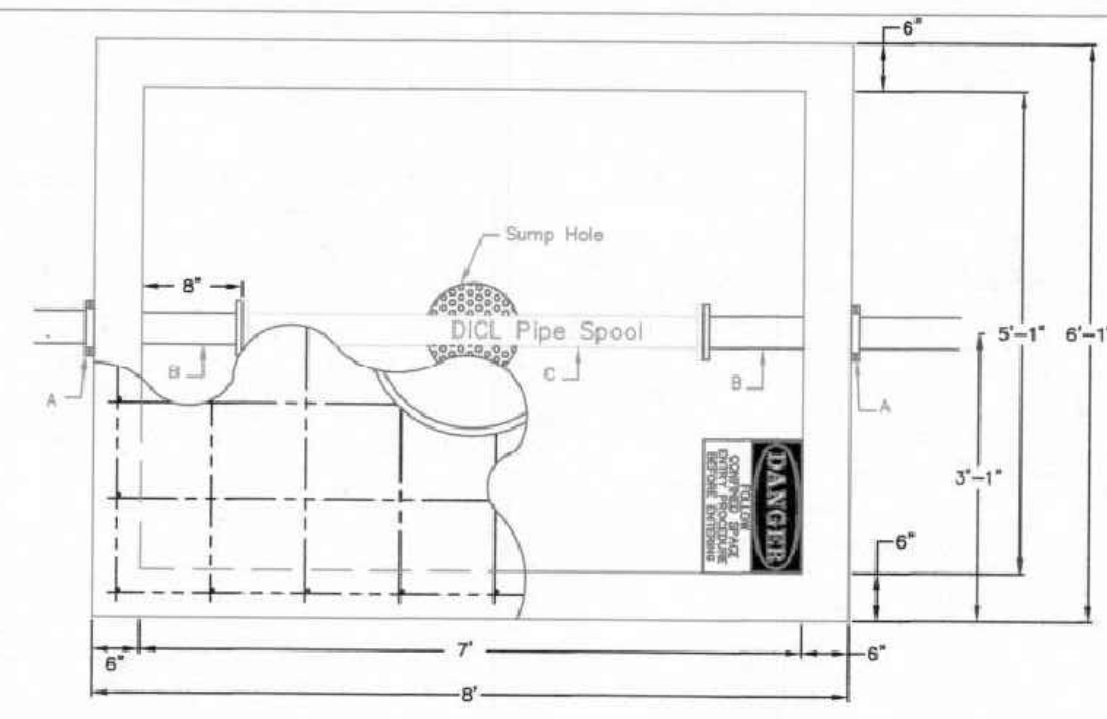
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Last edit on: 3/2/2023 5:16 PM by: EDM01853



Use 45 degree fittings as necessary to keep depth of vault within 76 inch maximum. All fittings should be mega lug, restrained joint or approved equal. All fittings for vertical and horizontal adjustments are to be on private property.

4" thru 8" Fire Service

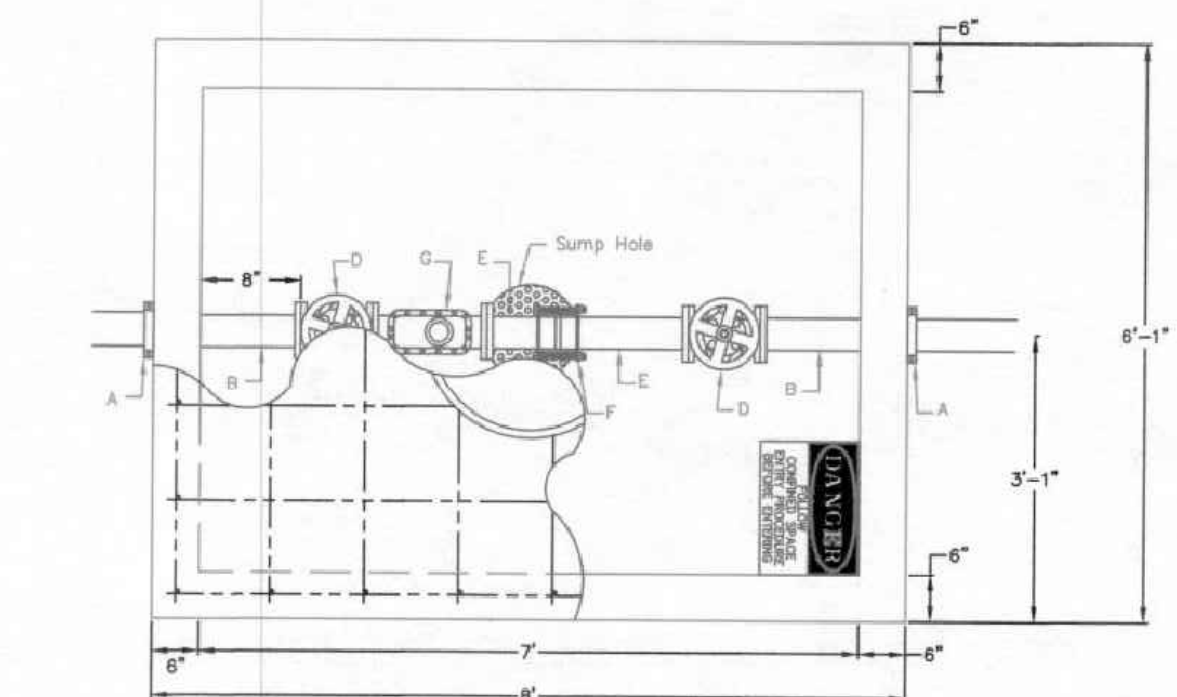
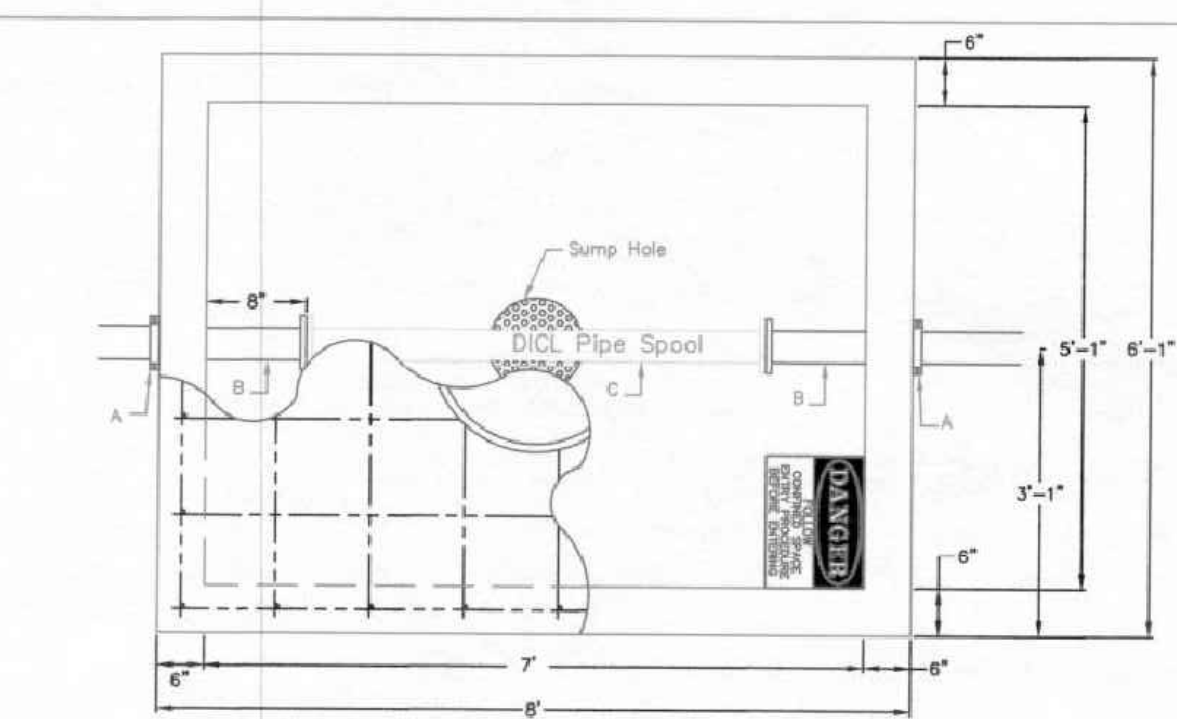
Detail A
Vault Lid



- A - 4" Vault Clamp*
- B - Min. 3" Piece of 4" FL x PE D.I.C.L. Pipe*
- C - 4" D.I.C.L. Flanged Pipe Spool*
- D - 3" Flange Non-rising Stem Gate Wheel Valve**
- E - 3" FL x PE Pipe**
- F - 3" Flex Coupling**
- G - 3" Badger Recordall II Turbo Cubic Foot Meter with AMR Register with a ADE on the register.**
- H - 3" x 4" FL Reducer**

3" Domestic Service

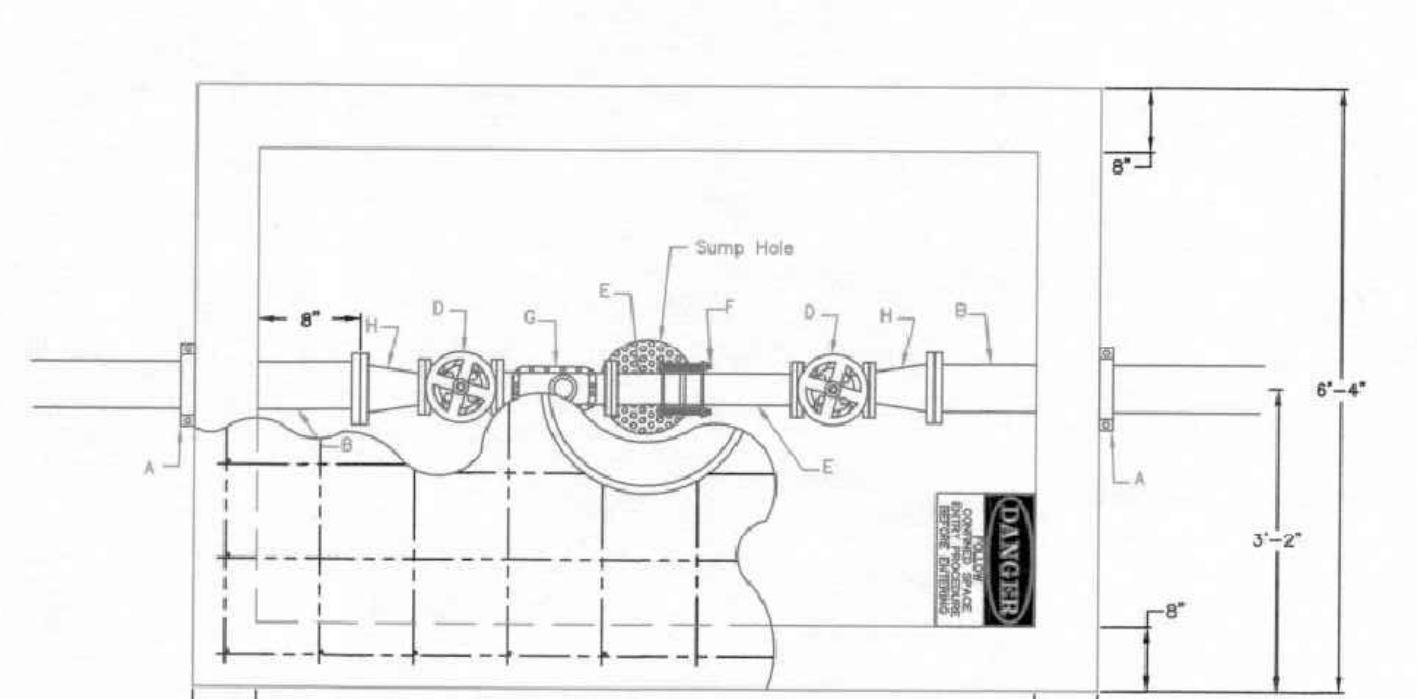
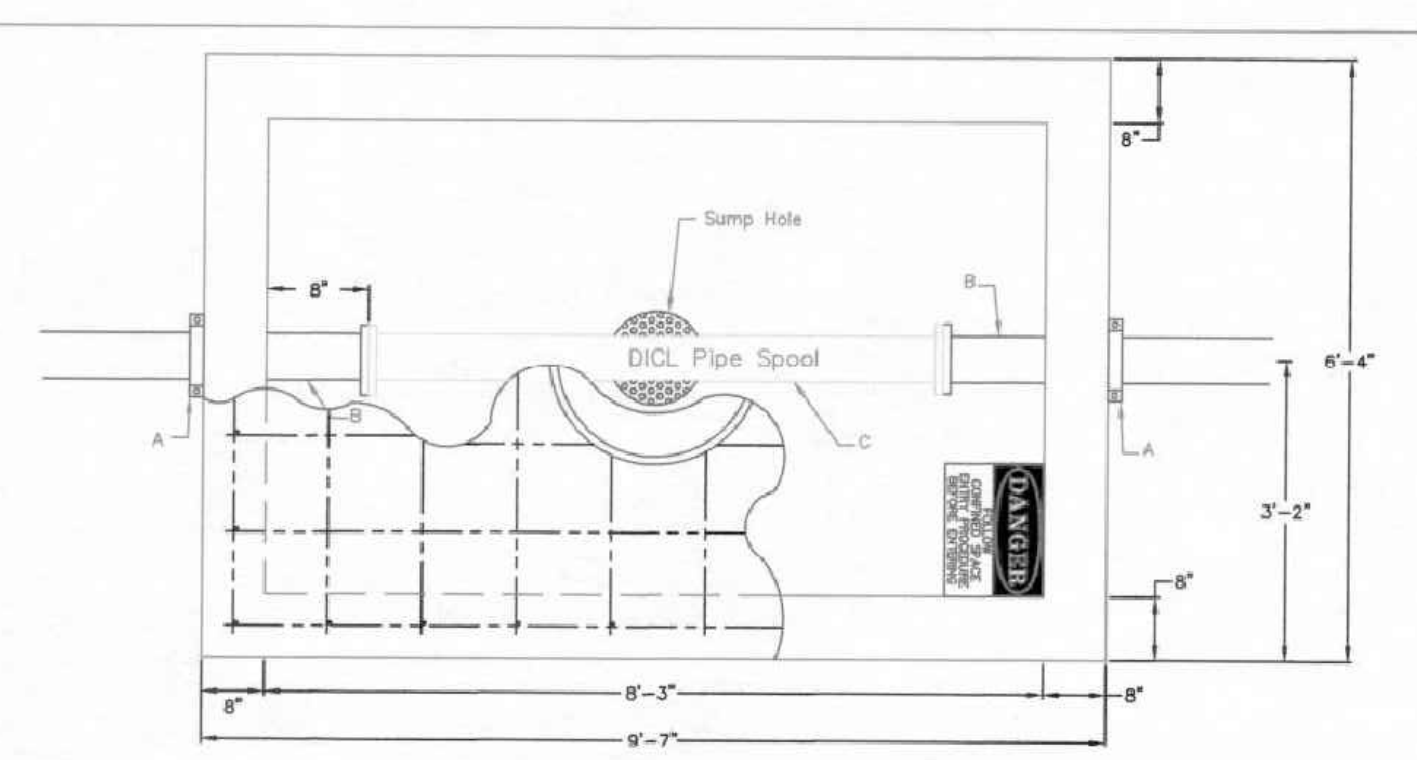
NOTE:
Domestic Services larger than 6" shall be custom designed by Consultant Engineer.



- A - 4" Vault Clamp*
- B - Min. 3" Piece of 4" FL x PE D.I.C.L. Pipe*
- C - 4" D.I.C.L. Pipe Spool*
- D - 4" Flange Non-rising Stem Gate Wheel Valve**
- E - 4" FL x PE Pipe**
- F - 4" Flex Coupling**
- G - 4" Badger Recordall II Turbo Cubic Foot Meter with AMR Register with a ADE on the register.**

4" Domestic Service

NOTE:
INSPECTOR FROM PUBLIC WORKS AND UTILITIES TO BE CONTACTED 24 HOURS PRIOR TO INSTALLATION TO SET VAULT
CONTACT: 316-219-8928 OR 316-219-8929



- A - 6" Mega Lug (See Note 7)*
- B - Min. 3" Piece of 6" FL x PE D.I.C.L. Pipe*
- C - 6" D.I.C.L. Pipe Spool*
- D - 4" Flange Non-rising Stem Gate Wheel Valve**
- E - 4" FL x PE Pipe**
- F - 4" Flex Coupling**
- G - 4" Badger Recordall II Turbo Cubic Foot Meter with AMR Register with a ADE on the register.**
- H - 6" x 4" FL Reducer**

6" Domestic Service with 4" meter

- Notes For All Services - 3" thru 12":
- When the standard vault dimensions are not applicable, such as when additional space is required for special pipe, fittings, additional meters, etc. the consultant design engineering shall design a vault with the required dimensions for Public Works and Utilities approval.
 - The vault shall be poured concrete, cement blocks (voids to be completely filled with 2500 P.S.I. concrete), or approved precast structure. The intent of these details shall not be limited by drawings or standards of precast structures.
 - Vault location to be determined by Public Works and Utilities prior to construction and approved by Department's field supervisor prior to installation. A final inspection will be required for acceptance. Vault location standards include but not limited to: not to be located where subjected to vehicular loads unless vault is H2O traffic rated, not to be located in any right-of-way or utility easement, and must be located on the property being served.
 - The manhole ring and lid shall be Neenah R-6034 Frame with Type "C" Solid Lid and Drop Down Handle or US Foundry APS-30x30 (Aluminum) or Deeter 1261 or EJ 1936z1 (with pick hole(s) as shown in Detail A). Where applicable the standard 10" Public Works and Utilities pattern meter reading lid and ring shall be located directly above water meter register. All joints of concrete to concrete or metal to concrete in the construction of the vault shall have a approved water tight mastic joint seal.

- Any fittings or appurtenances required to achieve proper elevation of pipe through the vault shall be provided by the contractor and appropriately noted on the as-builts submitted by the inspecting engineer. Such fittings shall be a minimum of 2' from the exterior wall of vault.
- For all domestic services larger than 3" the contractor shall provide an outlet flange connection as shown 8" from the inside wall. Inlet and outlet wall sleeves shall be provided and installed by the contractor and shall be in alignment with one another. The inlet and outlet pipe shall be ductile iron pipe, cement lined, Class 150 per Standard Specifications and shall be continuous through vault and joint no less than 2" from the exterior wall of vault. Flanges of inlet and outlet pipe shall be in proper alignment and bolt pattern shall be rotated in such a way that valves and other fittings shall be in their proper vertical alignment when installed.
- For all services 4" and larger the contractor shall install a mega lug, restrained joint, or approved equal on the exterior walls of the vault, which shall be manufactured of ductile iron conforming ASTM A 536-80, heat treated to a minimum hardness of 370 BHN and have a working pressure of a least 250 P.S.I. For a services smaller than 4" the contractor shall install an approved vault clamp on the exterior walls of the vault.
- All valves, meters, assemblies and fitting shall be provided with sufficient concrete or other approved supports to the vault floor.
- The "Confined Space Warning" sign shall be fastened to the top of all vaults. If necessary for landscaping or site consideration, the sign may be fastened to the vault lid if it does not impede access to the handle. Acceptable materials: Aluminum 73415HH, Plastic 73439HH or S.A. Vinyl 73463HH.

- All meters shall have a electronic read register compatible with the current City of Wichita meter reading system. All detector meters shall be on 5/8 cubic foot Badger meter with AMR register with a ADE on the register and 25' long Itron cord and plug or approved equal. Gallon meters shall not be accepted.
 - A. Fire Detect Leak Meters and ERTs will be purchased from the CITY at cost and meters purchased from a third party source shall not be accepted.
- Additional Notes For Fire Services
 - A. A post indicator valve (PIV) is an option for the outlet valve. It is not required by the City of Wichita ordinance, it can be requested by the owner and will be allowed at the discretion of the City Engineer.
 - B. When Siamese connections are required by the Wichita Fire Department, refer to the current City Code Section 15.
 - C. If due to any reason the completed vault retains ground or drainage water in excess of 4" in depth from the floor of the vault, the property owner shall be responsible for providing and installing a appropriate automatic sump pump or approved equal, as well as any other appurtenances required to make such system function as intended.



CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

| STANDARD VAULT DETAILS AND METER ASSEMBLIES | | |
|--|------------|----------------------------------|
| CITY ENGINEER GARY JANZEN, P.E. | | |
| PROJECT NUMBER | DCA NUMBER | DATE |
| CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 435 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501 | | SHEET C4.6 14 OF 16 |

REVISED: JULY 2020