GENERAL NOTES:

1. The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.

2. Contractor will be required to provide notice to utility companies a 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
Black Hills Energy	1–800–694–8989
City of Wichita Water & Sewer	1–316–219–8921
City of Wichita Stormwater	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
Westar Energy	1–800–544–4857

3. 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.

4. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. The Contractor shall notify the inspecting engineer and Dawnita Reinhardt at 316–268–4441 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.

10. 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.

11. All elevations shown are NAVD 88.

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

13. 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.

14. All applicable fees (tap, 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.

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

16. 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.

17. 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.

18. 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.

19. 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.

20. 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.

21. 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.

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

23. 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.

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

25. 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.

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

27. Wichita Fire Department inspections may be scheduled by calling 316–268–4441.

28. All of 13th St. & West St. R/W disturbed during construction shall be seeded and mulched as follows:

    Seed––Kansas Premium Fescue Blend; 8 lbs. PIs/1000 Sq. Ft.
    Annual Rye Grass; 3lbs/1000 Sq. Ft.
    Fertilizer––12–24–12 Ratio; 45 lbs./Ac.
    Mulch––2 Tons Prairie Hay/Ac.

    All other areas disturbed during construction are to be seeded as follows:

    Seed––Rye grass; 5 lbs./1000 Sq.Ft.
    All costs associated with seeding including mobilization, preparation of ground, seeding, fertilizing, mulching, etc. shall be included in the L.S. bit item "Seeding".

    An additional bid item for "Seeding, Temporary" has been included and may be used at the discretion of the design engineer. Temporary seed shall be annual Rye at 5 lbs./ 1000 Sq. Ft. unless otherwise noted and shall be planted when permanent seed or sod cannot be used due to seasonal limitations. if the " Seeding, Temporary" bid item is not used, 100% of the pay item will be deducted from the contract. All costs associated with temporary seeding including mobilization, preparation of ground, seeding, etc., shall be included in the L.S bid item " Seeding, Temporary".

29. Sanitary separation notes (29–31)
    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 measure from edge–to–edge at the closest point.

30. 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.

31. 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.

WATER DISTRIBUTION SYSTEM
to
serve

13TH & WEST STREET.

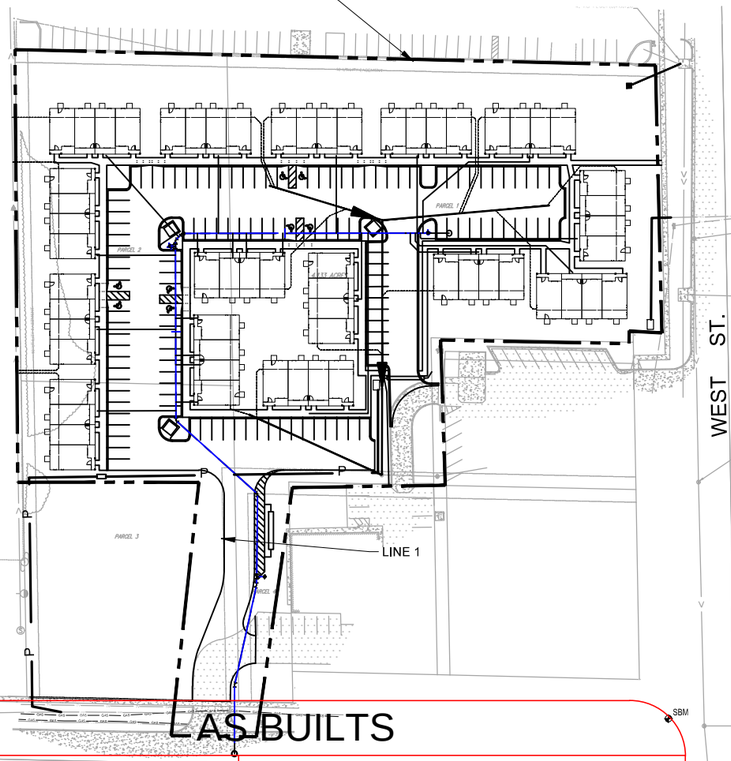
CITY OF WICHITA, KANSAS

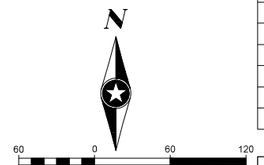
As builts received: Sept. 3, 2026
Inspector needs to make corrections and resubmit.

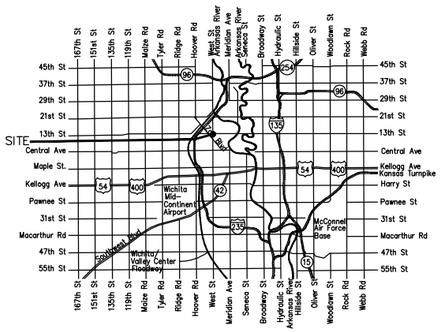
Corrections on this set made by Dawnita Reinhardt, C.O.W. 9/4/2026

PR

Paul Gunzelman, P.E. City Engineer
Project Number
2024–013796PPW (54030980)
(SEH–177075)







Vicinity Map

Sheet List Table	
Sheet Number	Sheet Title
1	TITLE PAGE
2	WATER PPRO–LINE 1
3	WATER PPRO–LINE 1
4	EROSION CONTROL PLAN
5	PPW DETAILS - 1
6	PPW DETAILS - 2
7	PPW DETAILS - 3
8	PPW DETAILS - 4
9	PPW DETAILS - 5
10	PPW DETAILS - 6
11	COPY OF PLAT

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

Engineering Shawn Mellies 1/17/25
Utilities Greg Lolley 1/17/25
Fire Dept. Jose Ocadiz 1/17/25

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.

ANTHONY K. KRUSE LICENSED 29898 01/22/2025 KANSAS PROFESSIONAL ENGINEER

CONTACT CHRIS STONE AT 316–268–4641 FOR TAP, EQUITY, & WATER METER FEES.

LAS BUILTS

Contractor:
Apex
17 June 26

13TH Project Inspector:
Eric Miner
KEMILLER ENGINEERING PA
117 E. Lewis, Wichita, KS 67202 (316)264–0242

Benchmarks

SBM FOUND CITY OF WICHITA BENCHMARK APPROXIMATELY 33.1 FEET SOUTH AND 20.6 FEET EAST FORM THE SOUTHEAST CORNER OF LOT 4, AGILE ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS
N: 1694320.8082 E: 1632803.0902
ELEV: 1314.86

January 20, 2025

SEH
PHONE: 402.513.8200
15750 DODGE RD.
SUITE 304
OMAHA, NE 68118
www.sehinc.com

REVISED MARCH 2024

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397' West
30' North to Tap

8" V 53652

Reference Point:
Centerline 13th
Street and West St

397' West
93' North to 22.5
deg bend

376' West
119 North to
22.5 deg bend

376' West
130' North to
hydrant

Fire hydrant can't be at this measurement or it would be inside the vault. One of the two is measured incorrectly.

Vault moved to
this location
CL of Vault
376' West
127' North

Hydrant Moved
to this location

376' West
129' North
to Valve

FH 17582
6" V 52334

EXISTING BURIED UTILITY TV LINE
EXISTING GAS LINE
EXISTING OVER HEAD ELECTRIC
WATER LINE EASEMENT FLM-PG#: 30358257
BY SEPARATE INSTRUMENT
13TH STREET
MATCHLINE- STA 4+00

STA = 0+08.88,BEGIN LINE 1
1-12"X 8" TAPPING SADDLE (S)
PPING VALVE (S) & VALVE BOX
N = 1693737.26
E = 1633131.90

STA = 0+54.78, LINE 1
1- 8 " 22.5° BEND
N = 1693783.16
E = 1633132.05

~~STA = 1+40.19~~, LINE 1
8" WATER METER VAULT
(SEE DETAIL)
~~N = 1693865.97~~
~~E = 1633153.38~~

STA = 1+47.21, LINE 1
HYDRANT ASSEMBLY
6' OFFSET
~~N = 1693873.16~~
~~E = 1633159.03~~
FG ELEV. = 1316.59

STA = 2+95.54, LINE 1
8 " 45° BEND
N = 1693992.39
E = 1633085.55

STA = 2+08.55, LINE 1
8 " 45° BEND
N = 1693934.15
E = 1633150.17

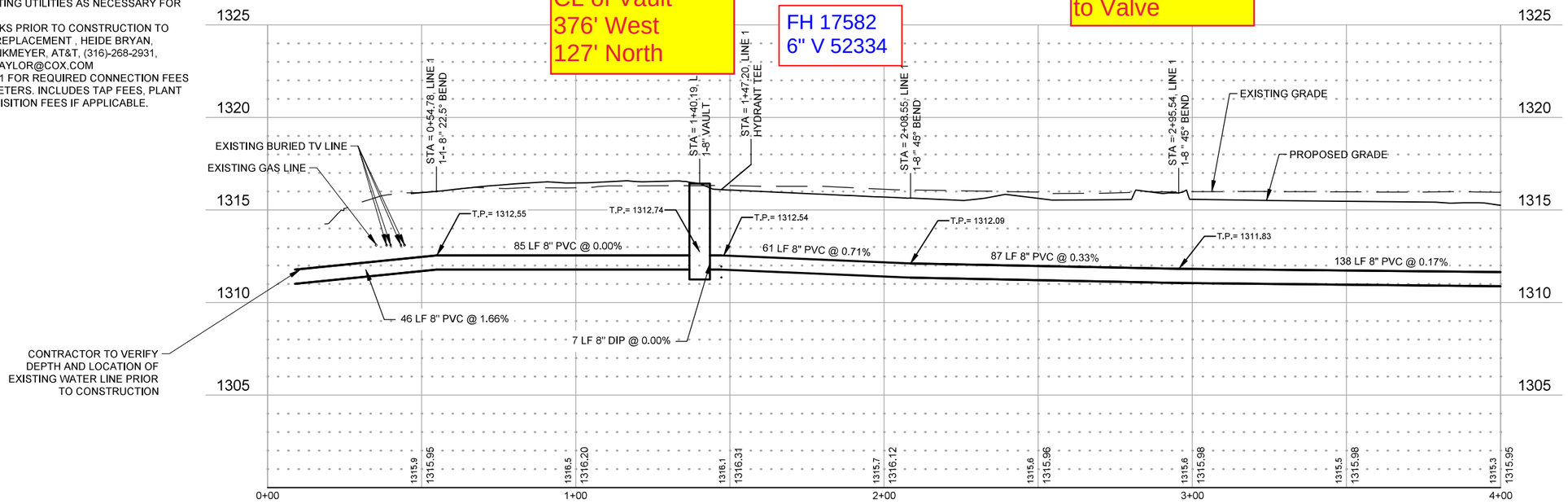
46 LF 8" PVC @ 1.66%
85 LF 8" PVC @ 0.00%
7 LF 8" DIP @ 0.00%
61 LF 8" PVC @ 0.71%
87 LF 8" PVC @ 0.33%
138 LF 8" PVC @ 0.17%
5.14-FT
15.00
5.00

0 + 00
0 + 50
1 + 00
1 + 50
2 + 00
2 + 50
3 + 00
3 + 50
4 + 00

20 0 20 40
scale 10 feet

NOTES:
1. TAPPING SADDLE, TAPPING VALVE & VALVE BOX TO BE FURNISHED BY THE CITY OF WICHITA WATER DEPT. CONTRACTOR TO SET VALVE BOX TO GRADE. CONTRACTOR TO REIMBURSE CITY OF WICHITA FOR WATER TAP.
2. PIPE LAYOUT IS SHOWN WITH HORIZONTAL AND VERTICAL DEFLECTIONS. CONTRACTOR TO USE SHORT PIPE LENGTHS, HIGH DEFLECTION COUPLERS, AND MANUFACTURER RECOMMENDED PIPE DEFLECTIONS TO MEET PLANNED ALIGNMENT.
3. DEFLECTION 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 USE C900 RJIB 8" DR18 PVC PIPE.
4. CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY

UTILITY NOTES:
1. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES. CONTRACTOR TO RELOCATE ANY EXISTING UTILITIES AS NECESSARY FOR CONSTRUCTION.
2. CONTACT UTILITIES COMPANIES 3 WEEKS PRIOR TO CONSTRUCTION TO COORDINATE TEMPORARY REMOVAL/ REPLACEMENT , HEIDE BRYAN, EVERGY, (316) 261-6354, SHANNON BRINKMEYER, AT&T, (316)-268-2931, TRAVIS TAYLOR, COX COMM., TRAVIS.TAYLOR@COX.COM
3. CONTACT CHRIS STONE AT 316-268-4641 FOR REQUIRED CONNECTION FEES TO OBTAIN NEW WATER SERVICES & METERS. INCLUDES TAP FEES, PLANT EQUITY FEES, IN LIEU OF FEES, & ACQUISITION FEES IF APPLICABLE.



CONTRACTOR TO VERIFY
DEPTH AND LOCATION OF
EXISTING WATER LINE PRIOR
TO CONSTRUCTION

ANTHONY K. KAP
LICENSED
29898
01/22/2025
KANSAS
PROFESSIONAL ENGINEER

SEH

SHORT ELLIOTT
HENDRICKSON INC.

PHONE: 402.513.8200
15750 DODGE RD.
SUITE 304
OMAHA, NE 68118
www.sehinc.com

13TH & WEST
UTILITY IMPROVEMENTS

WATER PPRO-LINE 1

WATER DISTRIBUTION
SYSTEM

PROJECT NUMBER
PT177505

DESIGN: AKK DRAWN: JC/SC
DATE: 1/20/2025

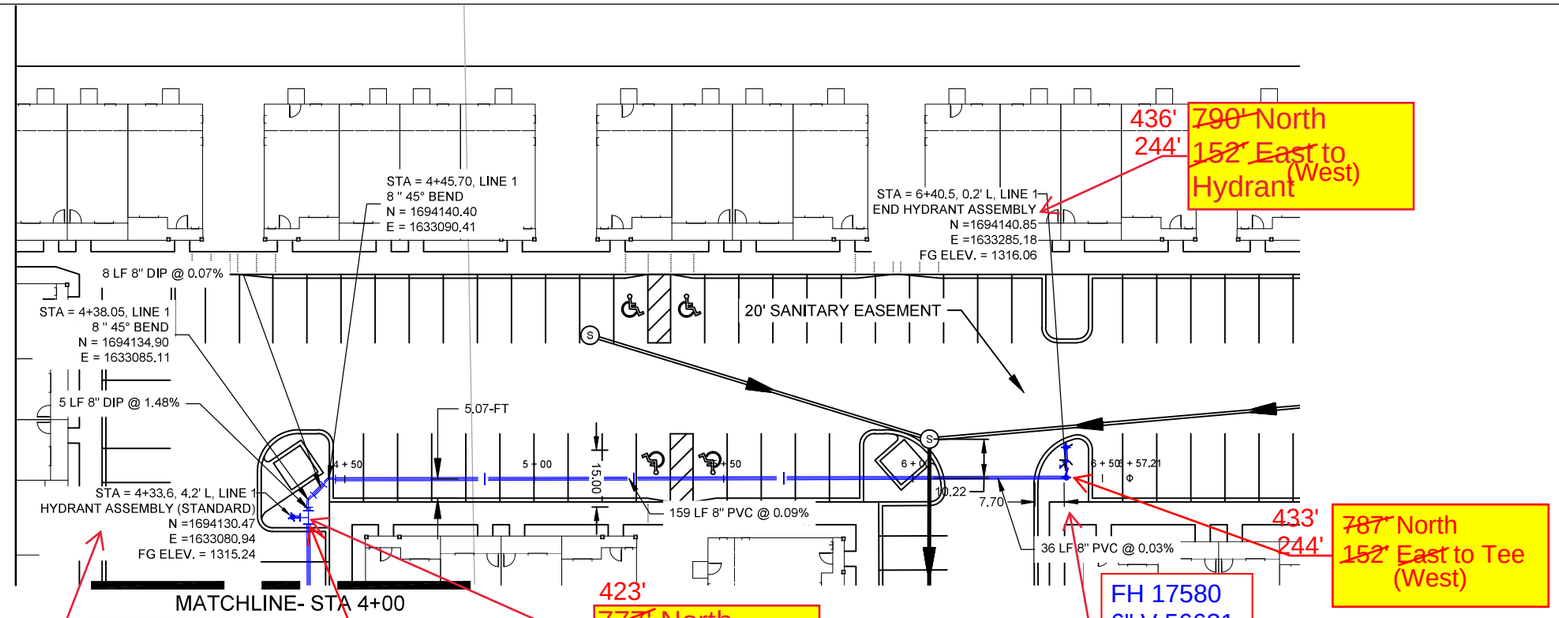
SHEET 2 OF 12

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Reference Point: Centerline 13th Street and West St

NOTES:
1. TAPPING SADDLE, TAPPING VALVE & VALVE BOX TO BE FURNISHED BY THE CITY OF WICHITA WATER DEPT. CONTRACTOR TO SET VALVE BOX TO GRADE. CONTRACTOR TO REIMBURSE CITY OF WICHITA FOR WATER TAP.
2. PIPE LAYOUT IS SHOWN WITH HORIZONTAL AND VERTICAL DEFLECTIONS. CONTRACTOR TO USE SHORT PIPE LENGTHS, HIGH DEFLECTION COUPLERS, AND MANUFACTURER RECOMMENDED PIPE DEFLECTIONS TO MEET PLANNED ALIGNMENT.
3. DEFLECTION 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 USE C900 RJIB 8" DR18 PVC PIPE.
4. CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY.
5. INSTALL THRUST BLOCK , SIZE BLOCK TO WICHITA STANDARDS FROM WL104 DETAIL ON SHEET 6

UTILITY NOTES:
1. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES. CONTRACTOR TO RELOCATE ANY EXISTING UTILITIES AS NECESSARY FOR CONSTRUCTION.
2. CONTACT UTILITIES COMPANIES 3 WEEKS PRIOR TO CONSTRUCTION TO COORDINATE TEMPORARY REMOVAL/ REPLACEMENT , HEIDE BRYAN, EVERGY, (316) 261-6354, SHANNON BRINKMEYER, AT&T, (316)-268-2931, TRAVIS TAYLOR, COX COMM., TRAVIS.TAYLOR@COX.COM



436'
244'
~~790'~~ North
~~152'~~ East to Hydrant (West)

433'
244'
~~787'~~ North
~~152'~~ East to Tee (West)

FH 17581
6" V 56628

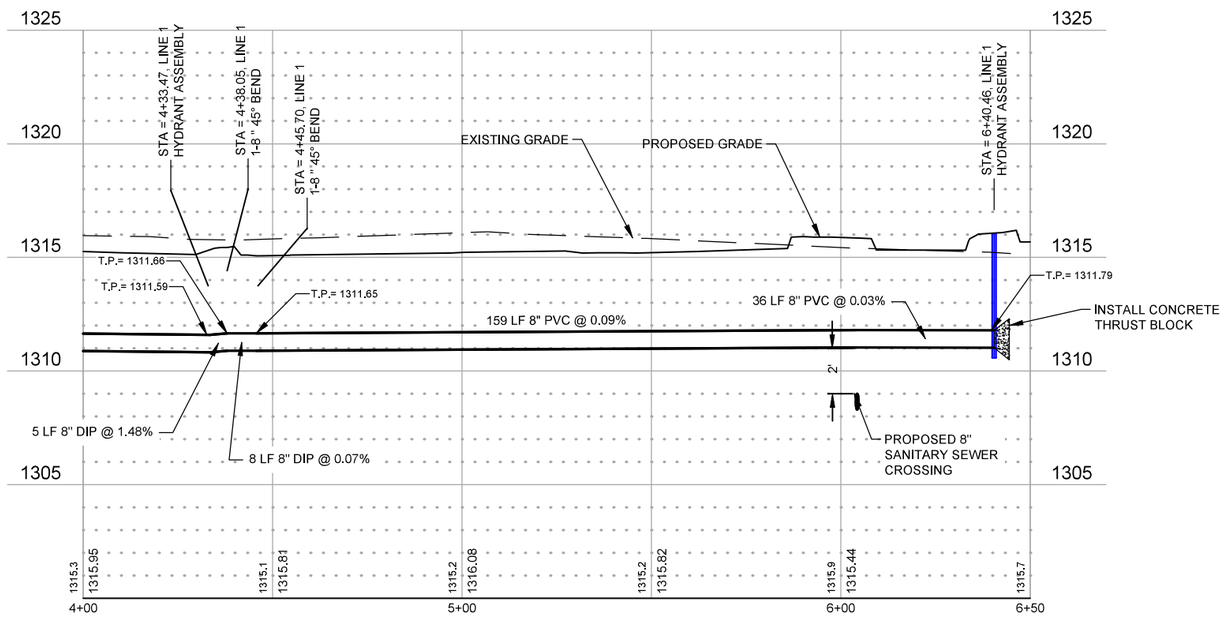
423'
444'
~~777'~~ North
~~82'~~ West to hydrant valve

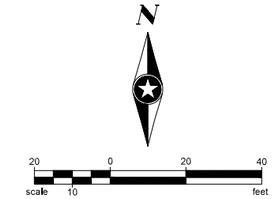
FH 17580
6" V 56631

423'
443'
~~777'~~ North
~~81'~~ West to Tee

434'
244'
~~788'~~ North
~~152'~~ East to hydrant valve (West)

423'
448'
~~777'~~ North
~~85'~~ West to hydrant







SEH

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13TH & WEST
UTILITY IMPROVEMENTS

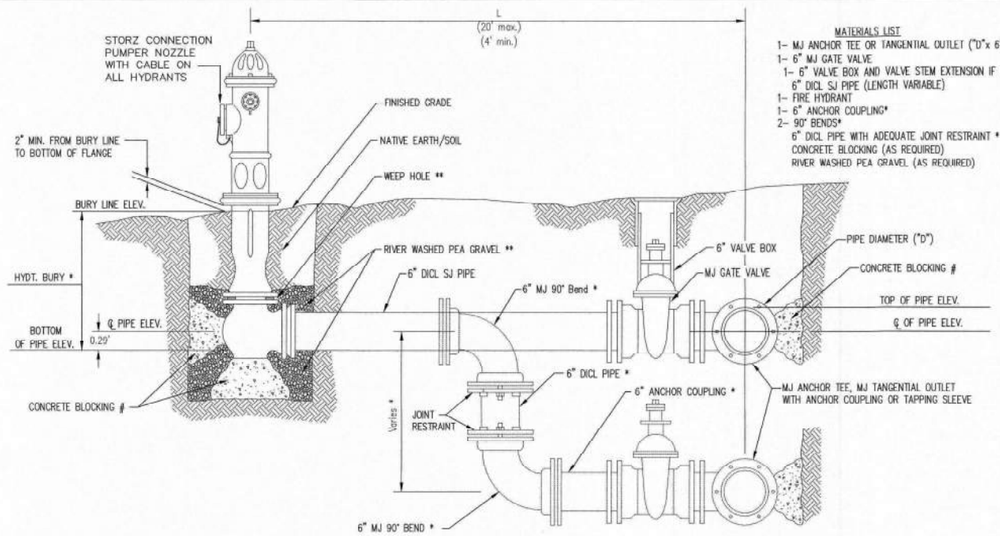
WATER PPRO-LINE 1

WATER DISTRIBUTION SYSTEM

PROJECT NUMBER
PT177505

DESIGN: AKK DRAWN: JC/SC
DATE: January 20, 2025
SHEET 3 OF 12

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MATERIALS LIST
1- MJ ANCHOR TEE OR TANGENTIAL OUTLET ("D"x 6")
1- 6" MJ GATE VALVE
1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
6" DICL SJ PIPE (LENGTH VARIABLE)
1- FIRE HYDRANT
1- 6" ANCHOR COUPLING*
2- 90° BENDS*
6" DICL PIPE WITH ADEQUATE JOINT RESTRAINT *
CONCRETE BLOCKING (AS REQUIRED)
RIVER WASHED PEA GRAVEL (AS REQUIRED)

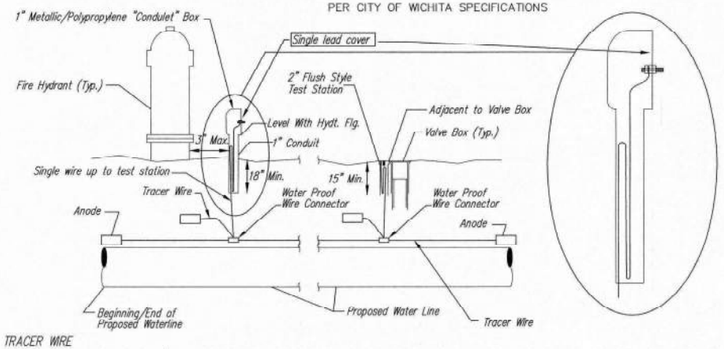
* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DICL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS, OR SIMILAR RESTRAINT BETWEEN 90° BENDS TO SECURE ALL FITTINGS DURING TESTING AND OPERATION. THE CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS SHEET.

** CAUTION: WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AROUND EACH WEEP HOLE.

CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

FIRE HYDRANT ASSEMBLY

PER CITY OF WICHITA SPECIFICATIONS



TRACER WIRE

Conductive type pipe locator/tracer wire shall be install to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire and waterproof connectors can be found on the City of Wichita's website at www.wichita.gov.

WIRE

The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

TEST STATIONS

*The test station for fire hydrant application shall be a 1" "conduLet" style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "WATER" stamped or molded into the lid. The test station for valve applications shall be a 2" flush style test station with wire connector on lid. Model # T2PH17DTLP Handley Industries or CD14*TP SnakePit as manufactured by Copperhead Industries or approved equal. The flush style shall have the word "WATER" stamped or molded into the lid. All test stations shall be manufactured using molded blue tops or sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be install to allow 12" of wire within the test station. The location of all test stations shall be recorded, and shown in the as-built drawings. Flush style test stations shall not be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire & move flush mount test station to nearest location out of pavement or sidewalk.*

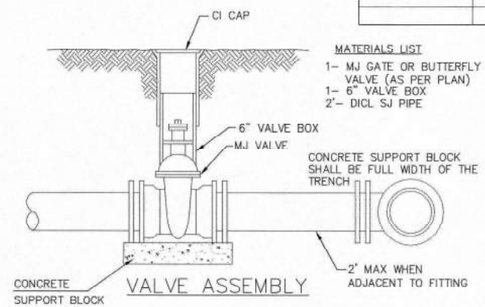
ANODES

The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to 12 AWG CCS which shall be extended to the test station.

TRACER WIRE DETAIL

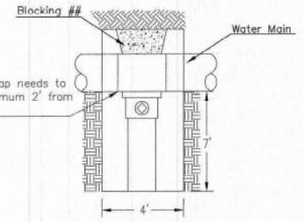
COST IS SUBSIDIARY TO PIPE INSTALLATION

FIRE HYDRANTS REQUIRED				
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
1+47.21	1316.59	1312.74	4.5	0
4+33.60	1315.24	1311.59	4.3	0
6+40.50	1316.06	1311.79	4.9	0



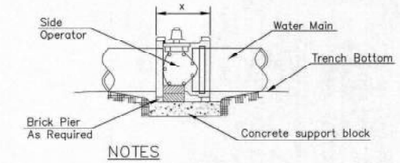
MATERIALS LIST
1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1- 6" VALVE BOX
2'- DICL SJ PIPE

VALVE ASSEMBLY



CITY TAP

When the City of Wichita makes tap, blocking is to be done by Contractor

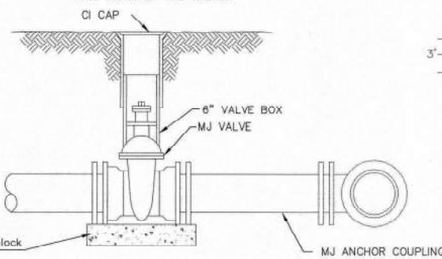


NOTES

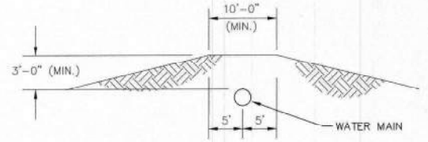
1. This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
2. 6" Valve Box and Cover required per City of Wichita Std. Specifications.
3. Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION

MATERIALS LIST
1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1-MJ ANCHOR COUPLING (12" OR SMALLER)
1-6" VALVE BOX
CONCRETE SUPPORT BLOCK SHALL BE
FULL WIDTH OF THE TRENCH

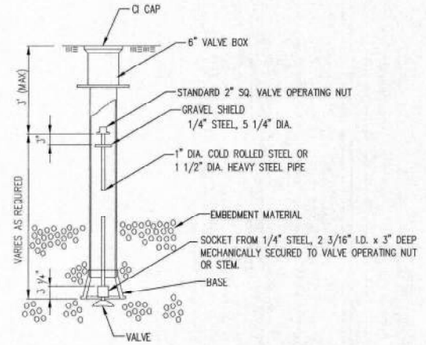


ANCHORED VALVE ASSEMBLY



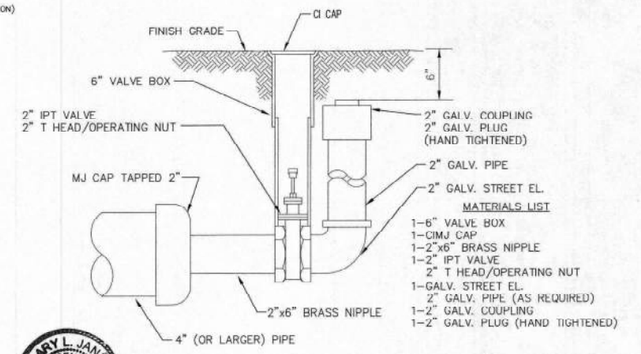
PROTECTIVE FILL DETAIL

MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3'.
(COST SUBSIDIARY TO PIPE INSTALLATION)



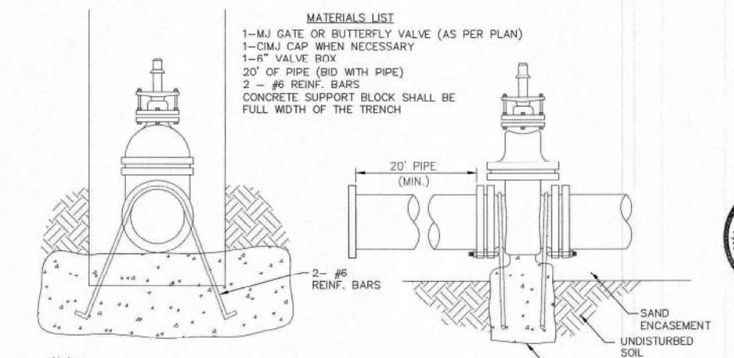
VALVE STEM EXTENSION DETAIL

NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.



MATERIALS LIST
1-6" VALVE BOX
1-CIMJ CAP
1-2"x6" BRASS NIPPLE
1-2" IPT VALVE
2" T HEAD/OPERATING NUT
1-GALV. STREET EL.
2" GALV. PIPE (AS REQUIRED)
1-2" GALV. COUPLING
1-2" GALV. PLUG (HAND TIGHTENED)

2" BLOWOFF ASSEMBLY



MATERIALS LIST
1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1-CIMJ CAP WHEN NECESSARY
1-6" VALVE BOX
20' OF PIPE (BID WITH PIPE)
2 - #6 REINF. BARS
CONCRETE SUPPORT BLOCK SHALL BE
FULL WIDTH OF THE TRENCH

Notes:
1. Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
2. The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
3. All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

THRUST AT VALVES	
VALVE	THRUST AT 150 #/in²
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL

GARY L. JANZEN LICENSED 16284 KANSAS PROFESSIONAL ENGINEER
10/27/16

REVISED: OCTOBER 2016

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STANDARD WATER ASSEMBLY DETAIL

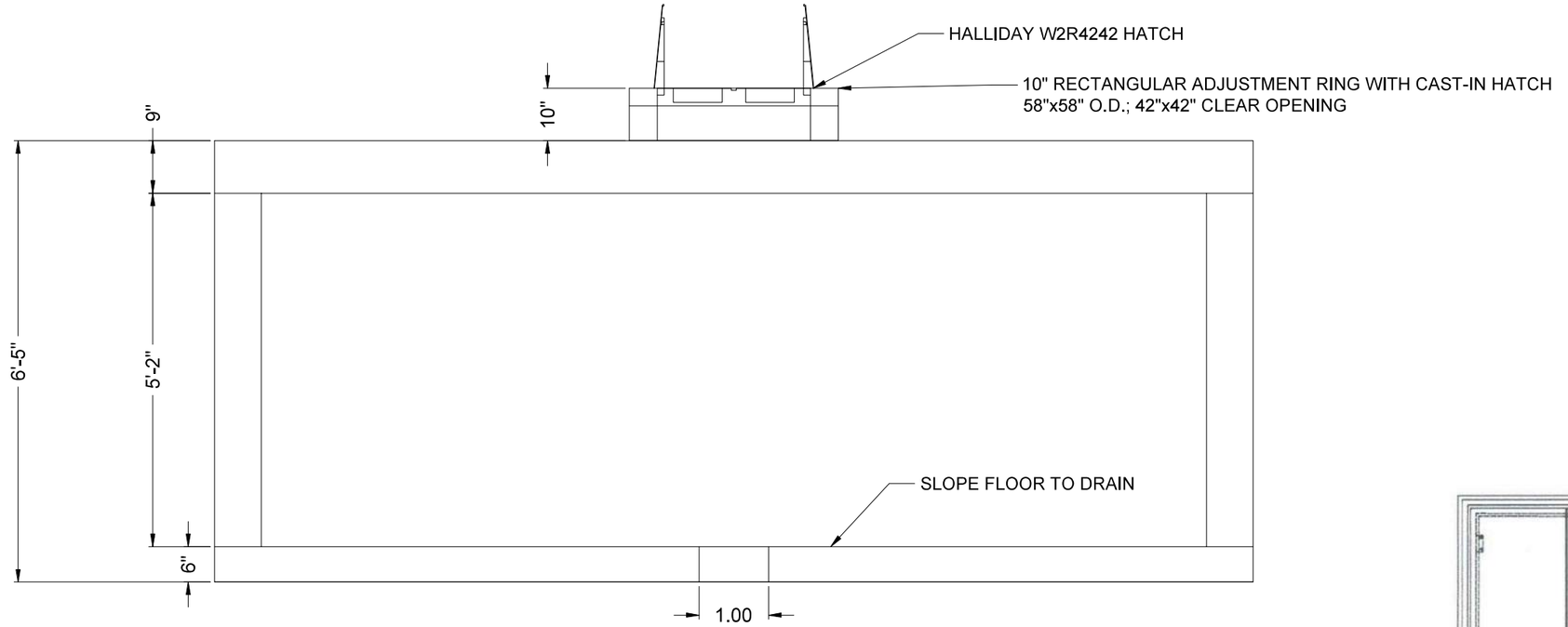
CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET
5 OF 12

WL-101

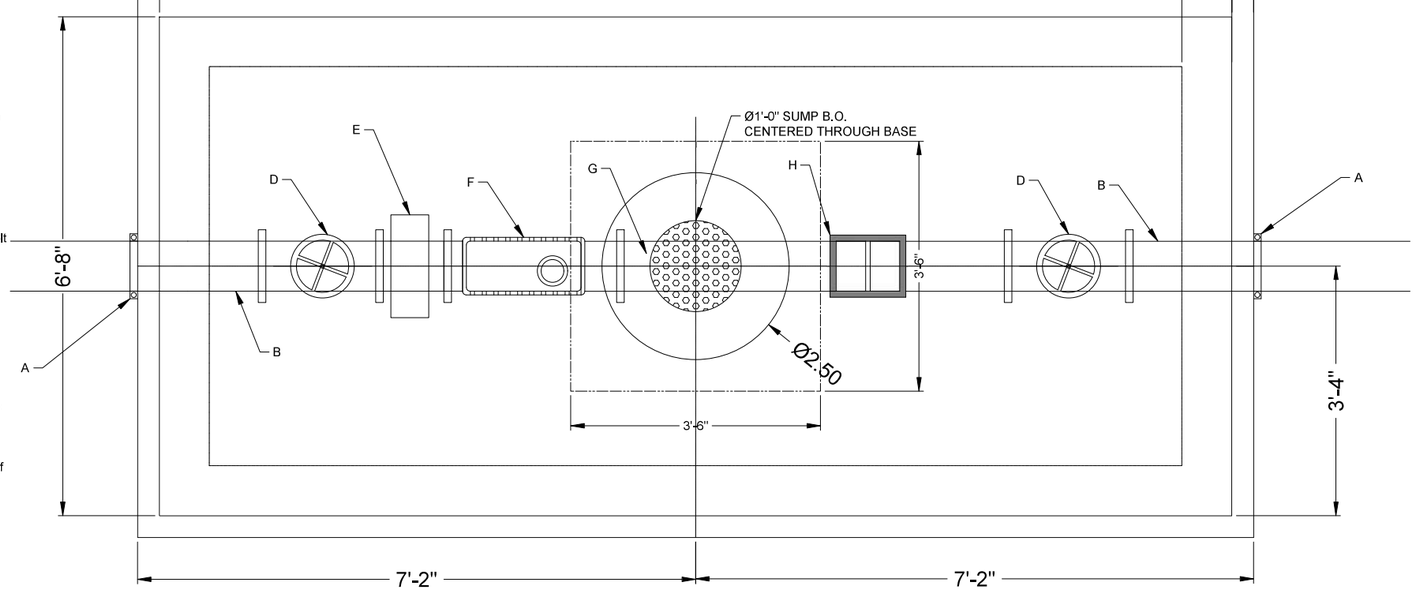


SECTION VIEW

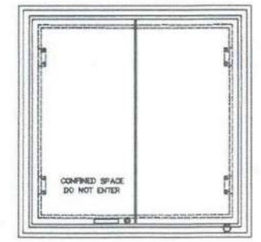
A - 8" Mega Lug* (See Note 7)*
B - Min. 3' Piece of 8" FL x PE DICL Pipe*
C - 8" DICL Pipe Sppol* prior to parts installed by Wichita Water Util.
D - 8" Flange Non-rising Stem Gate Wheel Valve**
E - Screen Filter**
F - 8" Octave Cubic Foot Meter with AMR Register **
G - 8" FL x PE Pipe**
H - 8" Flex Coupling**
* = Contractor Installed
** = Installed by Wichita Water Utilities

NOTES:

1. Inspector from Public work & Utilities to be contacted 24 hours prior to installation of Vault. Contact: 316-219-8928 OR 316-219-8929
2. 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.
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.
4. The manhole ring and lid shall be EJ 1040A/1581E/1581Z Assembly. 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.
5. All valves, meters, assemblies and fitting shall be provided with sufficient concrete or other approved supports to the vault floor.
6. 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.
7. For service pipe, 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 at least 250 P.S.I.
8. 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 ADE register and 25' long Itron cord and plug or approved equal. Gallon meters shall not be accepted.



TOP VIEW



HATCH DETAIL
HALLIDAY W2R4242

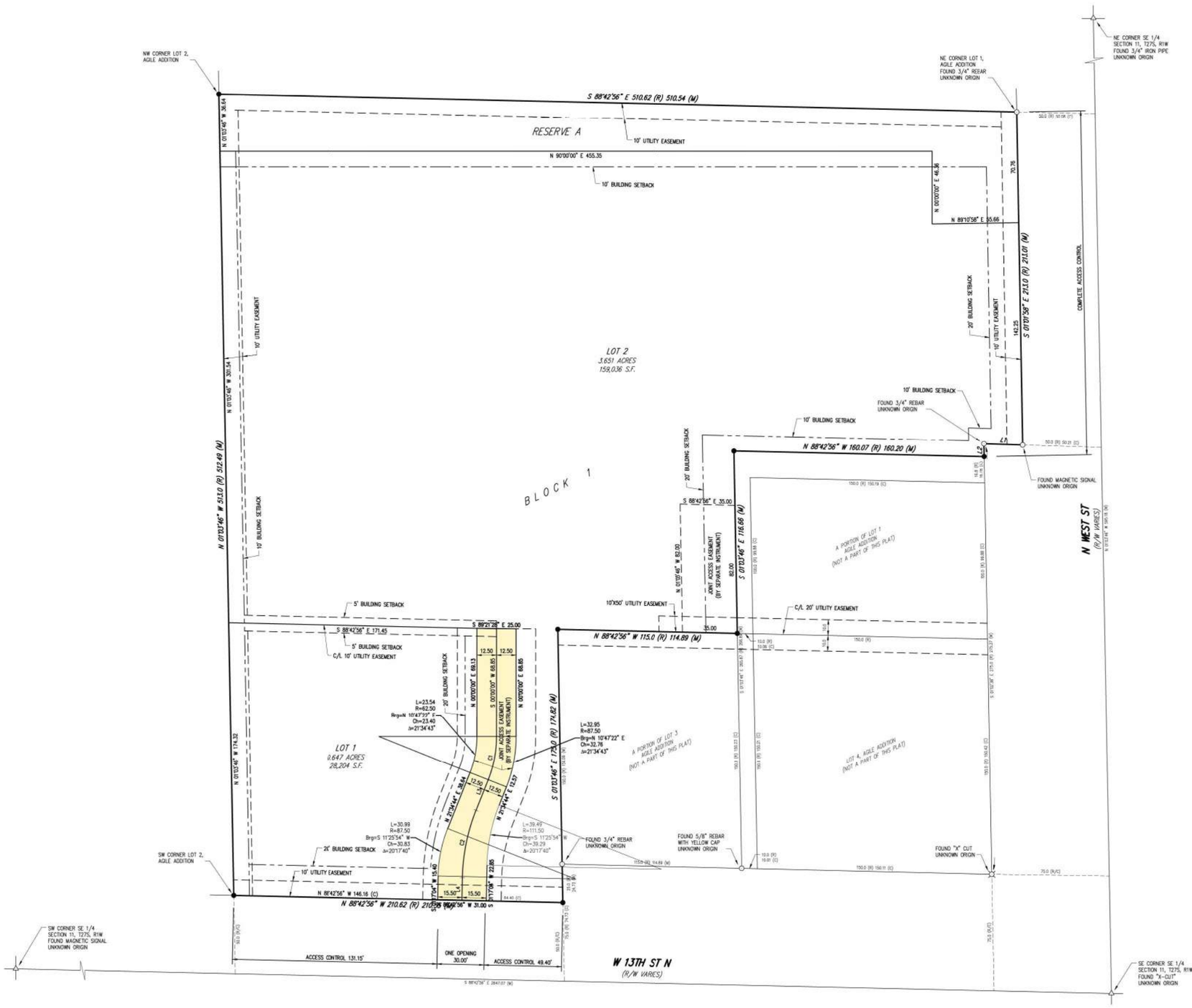
ANTHONY K. KIKE
LICENSED
29898
01/22/2025
KANSAS
PROFESSIONAL ENGINEER

SEH Project	Rev.#	Revision Issue Description	Date	Rev.#	Revision Issue Description	Date	SEH	WATER METER VAULT DETAIL		11 of 12
Drawn By										
Designed By										
Checked By										

FINAL PLAT

ENCLAVE WEST ADDITION

A REPLAT OF A PORTION AGILE ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS.





VICINITY MAP
(NOT TO SCALE)

LEGEND

△	SECTION SUBDIVISION CORNER FOUND
○	SURVEY MONUMENT FOUND
●	SET 1/2" REBAR WITH PLASTIC CAP STAMPED "ALPHA CLS-184"
N.	NORTH
S.	SOUTH
E.	EAST
W.	WEST
°	DEGREES
'	FEET OR MINUTES
"	INCHES OR SECONDS
SQ.	SQUARE
FT.	FEET
VOL.	VOLUME
PG.	PAGE
O.R.	OFFICIAL RECORD
C.	CALCULATED
R.	RECORD
M.	MEASURED

CURVE TABLE

CURVE	RADIUS	DELTA	ARC LENGTH	TANGENT	CHORD BEARING/DISTANCE
C1	75.00	21°34'43"	28.25	14.28	N 10°47'22" E 28.08
C2	125.00	20°17'40"	44.28	22.37	S 11°25'54" W 44.04

LINE TABLE

LINE #	DIRECTION	LENGTH
L1	N 88°15'39" W	25.0 (R) 24.79 (M)
L2	S 01°02'38" E	8.2 (R) 8.19 (M)
L3	S 21°34'44" W	26.31 (C)
L4	S 00°50'49" E	8.26 (C)



0 30 60

BASIS OF BEARINGS IS NAD83 KANSAS SOUTH ZONE

Alpha Land Surveys, Inc.
102 EAST 4TH AVENUE
HUTCHINSON, KANSAS 67501
PH: (620) 728-0012 FAX: (620) 728-0413

SURVEY DATE: 07/26/2024	PLOT DATE: 04/10/2024
DRAWN BY: RB	PROJ. NO.: 23012SBT
CHECKED BY: LPD	SHEET 1 OF 2

REFERENCE ONLY

SHORT ELLIOTT HENDRICKSON INC.
PHONE: 402.513.8200
15750 DODGE RD.
SUITE 304
OMAHA, NE 68118
www.sehinc.com

13TH & WEST
UTILITY IMPROVEMENTS

COPY OF PLAT

WATER DISTRIBUTION SYSTEM

PROJECT NUMBER
PT177505

DESIGN: AKK DRAWN: JC/SC
DATE: January 20, 2025

SHEET 12 OF XX

Save: 9/5/2024 2:17 PM akrejci Plot: 1/20/2025 3:30 PM X:\PTP\PREWM\177505\5-final-dsgn\10-Civil\cad\dwg\sheet\177505_PLAT.dwg