See revised sheets at end of these plans for adding 2 fire hydrants

AS-BUILT PLANS

PRIVATE WATER DISTRIBUTION SYSTEM IMPROVEMENTS

TO SERVE 201 S. Topeka

WICHITA BIOMEDICAL CAMPUS

THE CITY OF WICHITA, KANSAS
PAUL GUNZELMAN, P.E. - CITY ENGINEER

PROJECT NO. 2024-006370PPW
ORG CODE 54030980

BAUGHMAN COMPANY JOB #: 24-07-E833

GENERAL NOTES

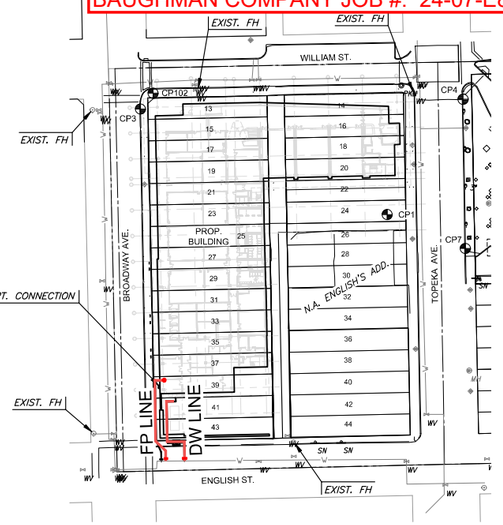
1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION. AS FOLLOWS:

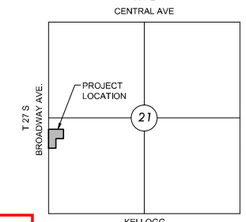
   KANSAS ONE-CALL 687-2470

   THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

AT&T	1-800-246-8464
BLACK HILLS ENERGY (GAS)	1-800-554-8989
CITY OF WICHITA WATER & SEWER	1-316-219-8921
CITY OF WICHITA STORMWATER	1-316-268-4390
CITY OF WICHITA TRAFFIC	1-316-268-4634
COX COMMUNICATIONS	1-888-248-3030
KANSAS GAS SERVICE	1-888-482-4950
EVERGY	1-800-344-4857

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. COMPS 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 FIELD GRADES BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND DAWNITA REINHARDT AT 650-0740 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 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 CONTRACTOR'S 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 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. 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.
17. 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.
18. 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.
19. CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
20. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
21. OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTIONS 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 PROHIBITED TO OPERATE WATER VALVES ON-Y WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
22. 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.
23. THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINES SHALL BE MADE WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS.
24. 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.
25. 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.
26. 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 CIM LONG SLEEVE OR MULTIPLE JOINTS.
27. ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
28. 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 316-261-6921.
29. ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE CONTRACTOR WILL REIMBURSE THE CITY FOR TAPPING FEES.
30. THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
31. WORK DONE UNDER THIS PROJECT IS SUBJECT TO THE CITY OF WICHITA REQUIREMENTS FOR "CONSTRUCTION OF INFRASTRUCTURE IMPROVEMENTS BY PRIVATE CONTRACT". THE CONTRACTOR SHALL BE FAMILIAR AND COMPLY WITH ALL OF THE REQUIREMENTS, INCLUDING BONDING, INSPECTION, TESTING, NOTIFICATION, PROVIDING AS-BUILT DRAWINGS, PAYING FOR ALL NECESSARY CONNECTIONS, AND/OR STREET REPAIR FEES AND PROVIDING PIPE MATERIAL AND OTHER CERTIFICATIONS.
32. DEVELOPER FOR THIS PROJECT IS:
    WICHITA STATE UNIVERSITY
    1845 FAIRMOUNT ST.,
    WICHITA, KS. 67260
    EMILY PATTERSON
    316-978-3444





VICINITY MAP
No Scale

Phase 1
Start: 9-4-2024
End: 1-15-2025

Phase 2
Start: 7-14-26
End: 8-13-26

Accepted by C.O.W. Aug. 14, 2025

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	PPW TITLE SHEET
2-4	WATER DETAILS
5	WATER LINES
6-10	BMP SHEETS

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

Engineering approved by Shawn Mellies on 6/26/24
Utilities approved by Greg Lolley on 6/26/24
Fire Department approved by Jose Ocadiz on 6/26/24

NOTE TO CONTRACTORS

Public Property:

Inspection and testing for the water line is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection 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 rights-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of 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 is required on-site.

BENCHMARKS

DATUM:
THE HORIZONTAL DATUM IS BASED ON THE KANSAS COORDINATE SYSTEM OF 1983, NAD83(2011), EPOCH:2010.0000, SOUTH ZONE. COORDINATES SHOWN HAVE BEEN MODIFIED TO THE GROUND USING A COMBINED ADJUSTMENT FACTOR OF 1.000120144. STATE PLANE COORDINATES CAN BE CALCULATED BY MULTIPLYING THE SHOWN VALUES BY 0.99988.

ALL ELEVATIONS SHOWN ARE BASED ON THE NAVD 88 VERTICAL DATUM, GEOID12B.

CONTROL POINTS:

CP1
N: 1685258.587 E: 1649800.486 EL: 1296.69
DESCRIPTION OF CONTROL POINT: PKNW

CP2
N: 1685003.086 E: 1649519.024 EL: 1298.370
DESCRIPTION OF CONTROL POINT: + CUT

CP3
N: 1685381.874 E: 1649512.104 EL: 1297.740
DESCRIPTION OF CONTROL POINT: + CUT

CP4
N: 1685393.311 E: 1649889.120 EL: 1296.050
DESCRIPTION OF CONTROL POINT: + CUT

CP5
N: 1685430.759 E: 1650213.371 EL: 1297.300
DESCRIPTION OF CONTROL POINT: + CUT

CP6
N: 1685178.067 E: 1650219.662 EL: 1295.810
DESCRIPTION OF CONTROL POINT: + CUT

CP7
N: 1685218.977 E: 1649891.744 EL: 1295.910
DESCRIPTION OF CONTROL POINT: + CUT

CP102
N: 1685400.353 E: 1649526.834 EL: 1297.665
DESCRIPTION OF CONTROL POINT: + CUT

NOTE:
ALL CONTROL POINTS SHOWN HAVE ELEVATIONS ESTABLISHED USING STANDARD SURVEYING PROCEDURES AND CAN BE USED AS TEMPORARY BENCHMARKS. WHEN USING A CONTROL POINT AS A TEMPORARY BENCHMARK, IT IS RECOMMENDED THAT CROSS-CHECKS BE MADE TO OTHER CONTROL POINTS OR BENCHMARKS TO CONFIRM ELEVATIONS PRIOR TO USE.

NOTE:
WATER LINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER INSPECTOR IS ON SITE.

NOTE: ALL LINES TO BE INSTALLED BY OTHERS ARE SUBJECT TO MABCD REVIEW.

NOTE: CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

Water Meter Structure = Wichita Concrete Pipe.
Frame & Lid = Deeter.
4" Clow TAP Valve
8" Clow TAP Valve
30 LF - 4" DICL Pipe = American
15 LF - 8" DICL Pipe = American
70 LF - 4" PVC Pipe = Jetstream
90 LF - 8" RJPVC Pipe = Westlake Certa Lok

UTILITY CONTRACTOR: McCULLOUGH EXCAVATION.
SUPERINDENTENT: ROB GRAY
CONSTRUCTION STAKING: BAUGHMAN COMPANY.
INSPECTION BY: BAUGHMAN COMPANY.
INSPECTOR: BEAU GIBLER
AS-BUILTS BY: BEAU GIBLER & LARRY POWELL
DATE: 1-17-2025

MKEC
Wichita, KS • 316.684.9600

PRIVATE WATER DISTRIBUTION SYSTEM IMPROVEMENTS FOR
WICHITA BIOMEDICAL CAMPUS
WICHITA, KS

PPW TITLE SHEET

PROJECT NO. 2024-006370PPW
SCALE
DRAWN JWC DESIGNED SPE CHECKED SPE

NO.	REVISION	DATE

SHEET NO. 1 OF 10

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Civil Engineer / Landscape Architect
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P: 316.684.9600

Structural Engineer
KPFF Consulting Engineers
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St. Louis, MO 63131
P: 314.835.0524

MEP Engineer
Henderson Engineers
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Dimensional Innovations
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P: 913.384.3488

Building Envelope Consultant
WSP
30 N La Salle Street, Suite 4200
Chicago, IL 60602
P: 312.782.8150

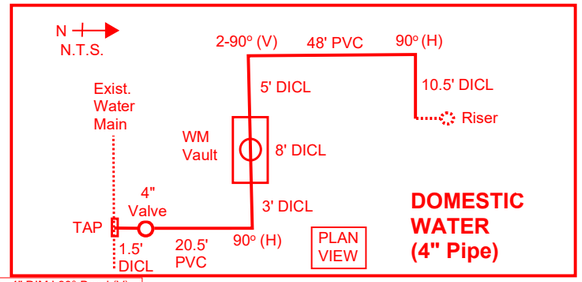
Revisions:
1 07.08.2024 ASI 001

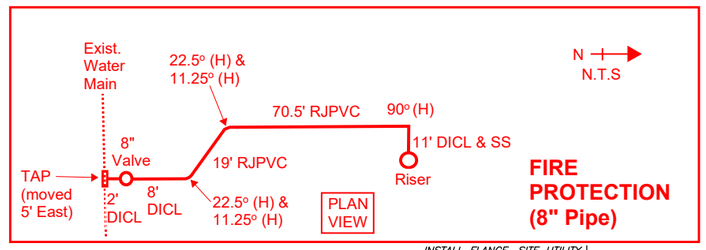
Department of Administration
Office of Facilities & Procurement Management
Design, Construction & Compliance
700 SW Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

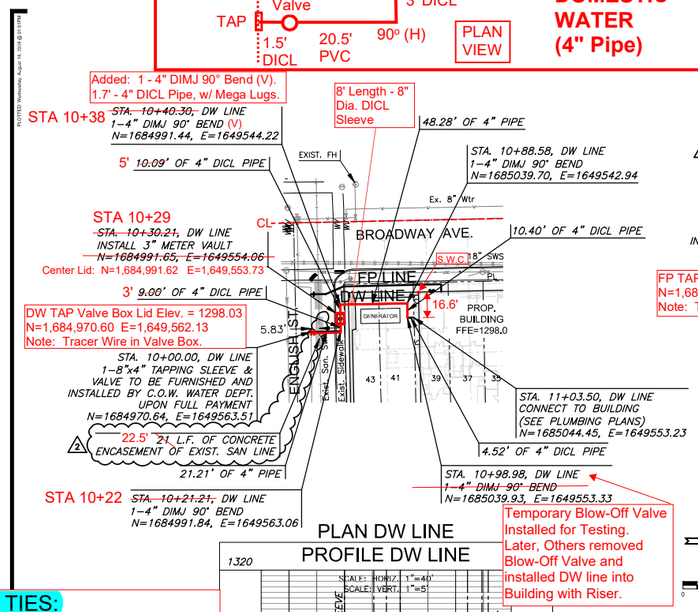
WICHITA STATE UNIVERSITY AND
THE UNIVERSITY OF KANSAS MEDICAL CENTER
WICHITA BIOMEDICAL CAMPUS - PHASE 1
201 S. TOPEKA AVENUE
WICHITA, KANSAS 67202
DATE: 05.03.2024 DRAWN BY: JWC

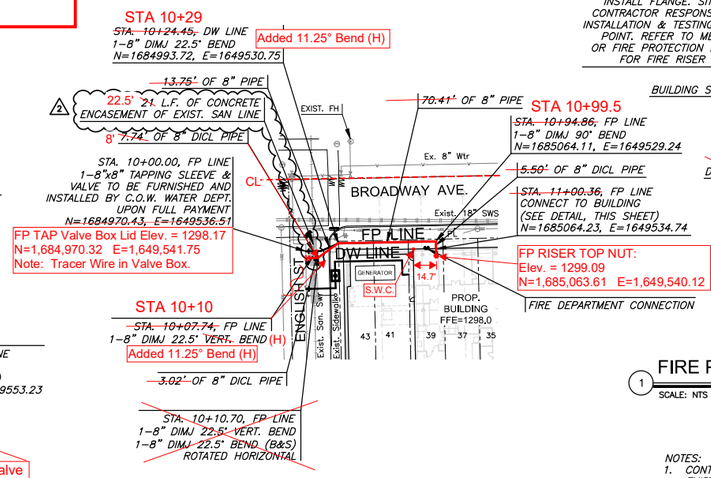
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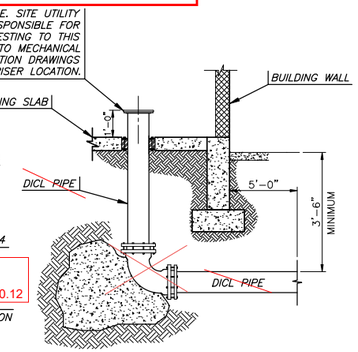
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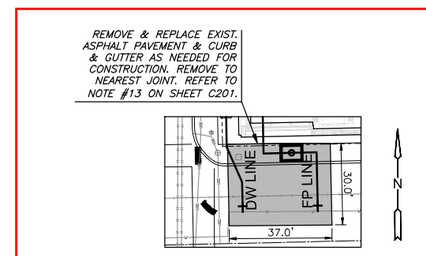




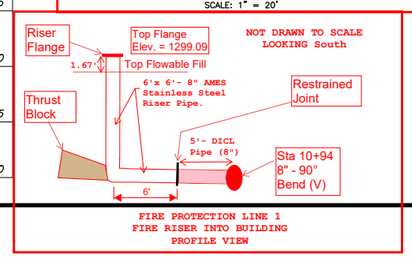


1 FIRE PROTECTION AT BUILDING (TYP.)
SCALE: NTS

See As-Built Sketch Below



PAVEMENT REMOVAL
SCALE: 1" = 20'



REFERENCE TIES:
From Centerlines of
English St. & Broadway Ave.:

DW TAP SADDLE: STA 10+00
8' N. & 75' E.

DW TAP 4" VALVE: STA 10+01.5
10' N. & 75' E.

DW 90° BEND (H): STA 10+22
30' N. & 75' E.

DW 3" METER VAULT: STA 10+29
30' N. & 68' E.

DW 2 - 90° BENDS (V): STA 10+38
30' N. & 59' E.

REFERENCE TIES:
From Centerlines of
English St. & Broadway Ave.:

FP TAP SADDLE: STA 10+00
9' N. & 53'E.

FP TAP 8" VALVE: STA 10+02
11' N. & 53' E.

FP 22.5° & 11.25° BENDS (H):
STA 10+10
19' N. & 53' E.

NOTES:
1. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING WATER LINE PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DURING WATER LINE CONSTRUCTION. PROVIDE A TRAFFIC CONTROL PLAN TO THE CITY OF WICHITA FOR APPROVAL PRIOR TO CONSTRUCTION. REFER TO NOTE #10 ON SHEET C201.

NOTES:
1) No Test Stations installed. Tracer Wire installed in TAP Valve Boxes.
2) Baughman Inspection ended on Domestic Line at Sta 10+98 (Temporary 2" Blow-Off Valve).

NOTES:
3) Domestic Water Line installed on Plan Alignment.
4) Domestic Water Line from Sta 10+98 to Riser installed by Others.

LEGEND:
H = Horizontal.
V = Vertical.
DW = Domestic Water Line.
FP = Fire Protection Line.
S.W.C. = Southwest Corner.
CL = Centerline.
WM = Water Meter.
SS = Stainless Steel

Redline As-Built Northings (N) & Eastings (E) are reported in the same Horizontal Datum as Plan Northings & Eastings. See Datum Note on Title Sheet of this Plan Set.

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MEP Engineer
Henderson Engineers
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Fire Sprinkler Design
FSC
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Overland Park, KS 66212
P: 913.722.3473

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NV5 Engineering & Technology
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P: 312.782.8150

PRIVATE WATER DISTRIBUTION PLANS FOR
WICHITA BIOMEDICAL CAMPUS
WICHITA, KS

WATER LINES

PROJECT NO. 2024-006370PPW
SCALE 1" = 40'
DRAWN JWC DESIGNED SPE CHECKED SPE

NO.	REVISION	DATE

SHEET NO. 5 OF 10

Revisions:
1 07.08.2024 ASI 001
2 08.14.2024 PR 001

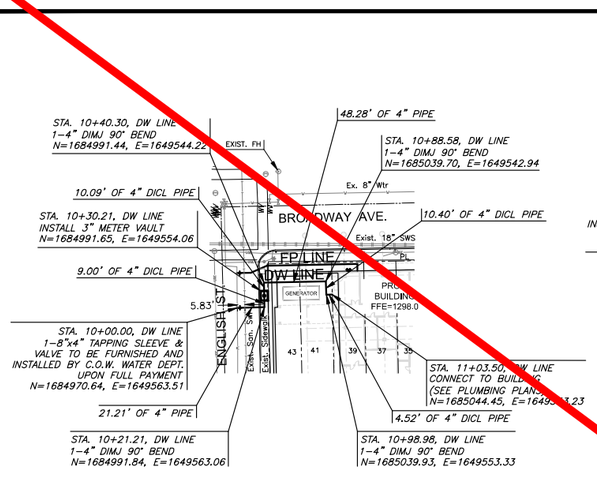
Department of Administration
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Design, Construction & Compliance
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WICHITA STATE UNIVERSITY AND
THE UNIVERSITY OF KANSAS MEDICAL CENTER
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201 S. TOPEKA AVENUE
WICHITA, KANSAS 67202
DATE: 05.02.2024 DRAWN BY: JWC

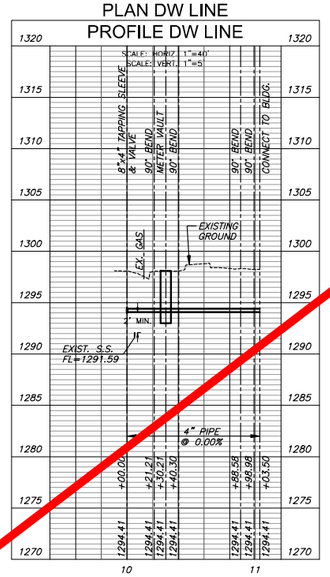
WATER LINES
A-014707
C209
BID PACKAGE #1

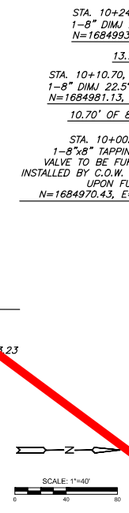
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SEE REVISED SHEET - REVISION 8-14-24 - ON PREVIOUS PAGE

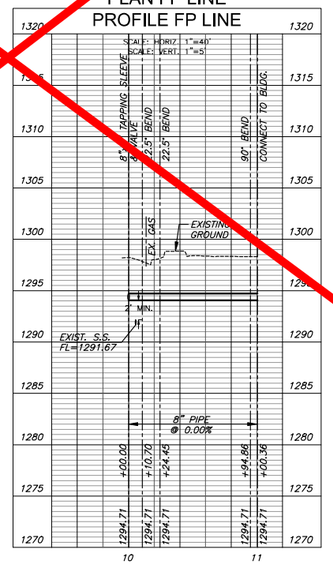


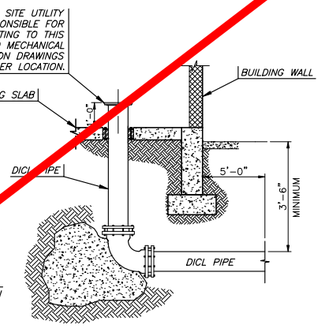
PLAN DW LINE





PLAN FP LINE





1 FIRE PROTECTION AT BUILDING (TYP.)
SCALE: NTS

NOTES:
1. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING WATER LINE PRIOR TO CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DURING WATER LINE CONSTRUCTION. PROVIDE A TRAFFIC CONTROL PLAN TO THE CITY OF WICHITA FOR APPROVAL PRIOR TO CONSTRUCTION. REFER TO NOTE #10 ON SHEET C201.

REMOVE & REPLACE EXIST. ASPHALT PAVEMENT & CURB & GUTTER AS NEEDED FOR CONSTRUCTION. REMOVE TO NEAREST JOINT. REFER TO NOTE #13 ON SHEET C201.



PAVEMENT REMOVAL
SCALE: 1" = 20'

MKEC
Wichita, KS • 316.684.9600

PRIVATE WATER DISTRIBUTION PLANS FOR

WICHITA BIOMEDICAL CAMPUS

WICHITA, KS

WATER LINES

PROJECT NO. 2024-006370PPW
SCALE 1" = 40'
DRAWN JWC | DESIGNED SPE | CHECKED SPE

NO.	REVISION	DATE

SHEET NO. 5 OF 10

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Revisions:
1 07.08.2024 ASI 001

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WICHITA STATE UNIVERSITY AND
THE UNIVERSITY OF KANSAS MEDICAL CENTER
WICHITA BIOMEDICAL CAMPUS - PHASE 1
201 S. TOPEKA AVENUE
WICHITA, KANSAS 67202
DATE: 08.02.2024 DRAWN BY: JWC

WATER LINES

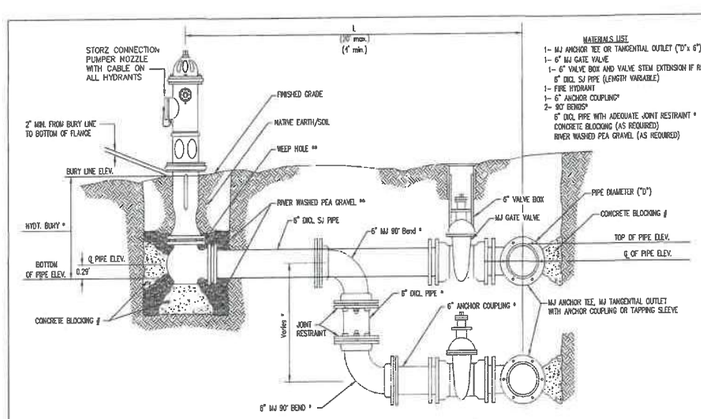
A-014707

C209

BID PACKAGE #1

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Revision to original approved plans to add these two fire hydrants



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 *
8" 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.

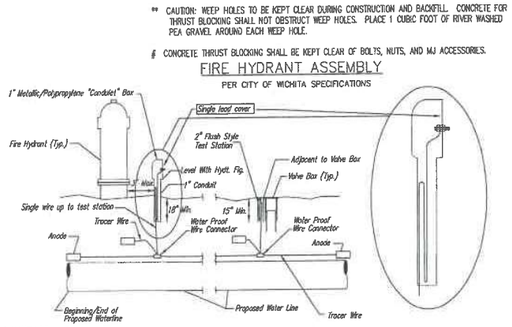
FIRE HYDRANT ASSEMBLY

PER CITY OF WICHITA SPECIFICATIONS

FIRE HYDRANT LOCATION	CONTRACTOR TO FIELD
#1	VERIFY EXISTING PIPE ELEVATION AND HYDRANT BURY REQUIRED.
#2	

FIRE HYDRANTS REQUIRED

STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (#)*	BARREL EXTENSION
10+92.89, 21.5' Rt	1297.57	#	#	no	12"
13+23.15, 17.1' Rt	1295.91	#	#	no	12"
1297.90	1296.08				



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. This 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.

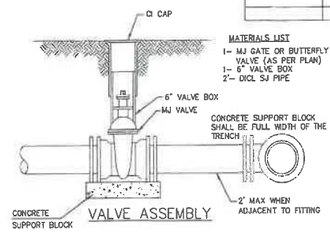
WIRE
The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach wire 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" "conduiet" 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 35" 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 # T2PH7BVLP Handley Industries or CDH4TP SnakeFill 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.

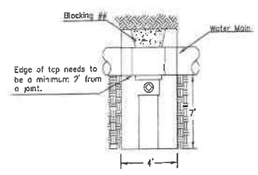
TRACER WIRE DETAIL

COST IS SUBSIDIARY TO PIPE INSTALLATION



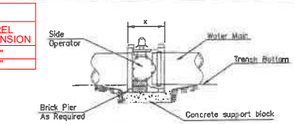
MATERIALS LIST
1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1- 6" VALVE BOX
2'- DICL SJ PIPE

VALVE ASSEMBLY



CITY TAP

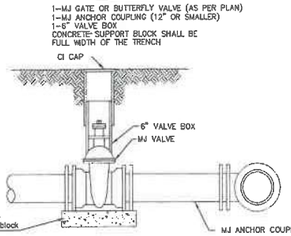
When the City of Wichita makes tap, blocking is to be done by Contractor



NOTES

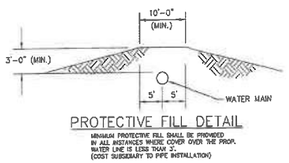
1. This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
2. 6" Valve Box and Cover required per City of Wichita Std. Specifications.
3. Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



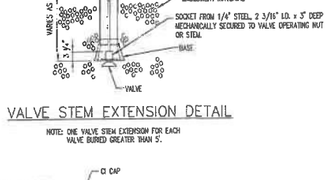
MATERIALS LIST
1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1-MJ ANCHOR COUPLING (12" OR SMALLER)
1-6" VALVE BOX
CONCRETE- SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

ANCHORED VALVE ASSEMBLY



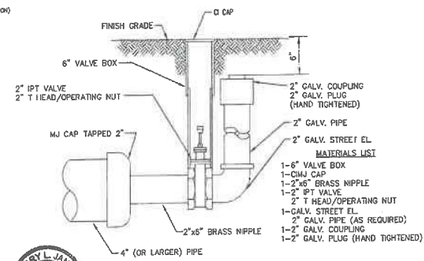
PROTECTIVE FILL DETAIL

MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 5'. (COST SUBSIDIARY TO PIPE INSTALLATION)



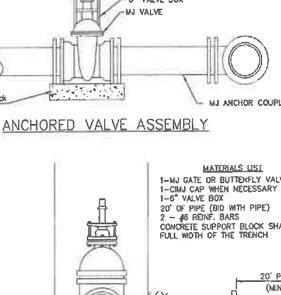
VALVE STEM EXTENSION DETAIL

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



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 ft/s2
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL

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
2024-006370PPW		FEB. 2024

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

SHEET 2 OF 10

WL-101

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Revisions:

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Office of Facilities & Procurement
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Topeka, Kansas 66603
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WICHITA STATE UNIVERSITY AND THE UNIVERSITY OF KANSAS MEDICAL CENTER
WICHITA BIOMEDICAL CAMPUS - PHASE 1
201 S. TOPEKA AVENUE
WICHITA, KANSAS 67202
DATE: 08.12.2024

STANDARD WATER ASSEMBLY DETAILS

A-014707

C206

BID PACKAGE #3

SHEET 2 OF 10

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Revision to original approved plans to add these two fire hydrants

RELOCATED / NEW FIRE HYDRANTS

LOCATION #1

FROM CL WILLIAM ST. & BROADWAY AVE.:
EXISTING 8" LINE VALVE: 15' SOUTH & 93' EAST.
TEE (8" x 6"): 17' SOUTH & 93' EAST.
PLUG ON TEE: 18' SOUTH & 93' EAST.
PLUG ON EX. MAIN: 22' SOUTH & 93' EAST
6" FH VALVE: 17' SOUTH & 95' EAST.
FIRE HYDRANT: 17' SOUTH & 98' EAST.

6" FH VALVE = 3' WEST OF FIRE HYDRANT.

8" Existing Line Valve:
N=1,685,410.2 E=1,649,575.6
Top Existing Valve Box Elev.=1296.9

New Fire Hydrant: N=1,685,409.1 E=1,649,578.6
New 6" Fire Hydrant Valve:
N=1,685,408.6 E=1,649,576.9
Top Valve Box Elev.=1296.80

REMOVE 6 L.F OF 8" WATER LINE.
1-FIRE HYDRANT ASSEMBLY
L=4.0'
Facing North
BURY LINE ELEVATION=~~1297.57~~ 1297.90
1-8" PLUG (S)
~~N=1685409.48, E=1649575.72~~

REMOVE EXISTING HYDRANT #15729 & SALVAGE BACK TO CITY OF WICHITA.
REMOVE 6" VALVE
REMOVE 3 L.F OF 6" WATER LINE.

WILLIAM ST.
Ex. 8" Wtr
Exist. Conc. Surf
11+00

FIRE HYDRANT RELOCATION #1

CONTRACTOR TO INSTALL RESTRAINED VERTICAL BENDS AS NECESSARY TO ENSURE CLEARANCE BELOW EXISTING STORM LINE AS-BUILT VERTICAL BENDS AS NECESSARY

10.5' - 6" DICL Pipe

TS

TOPEKA ST.

REMOVE & REPLACE EXIST. ASPHALT PAVEMENT AS NEEDED FOR CONSTRUCTION. REFER TO NOTE #13 ON SHEET C201.

REMOVE EXISTING HYDRANT #00628 & SALVAGE BACK TO CITY OF WICHITA.
REMOVE 6" VALVE
PLUG EXIST. ~~HYDRANT TEE.~~ BEND (VERTICAL)

FIRE HYDRANT RELOCATION #2

LOCATION #2

FROM CL WILLIAM ST. & TOPEKA AVE.:
TAP SLEEVE: 9' SOUTH & 55' WEST.
6" TAP / FH VALVE: 10' SOUTH & 55' WEST.
FIRE HYDRANT: 20' SOUTH & 55' WEST.

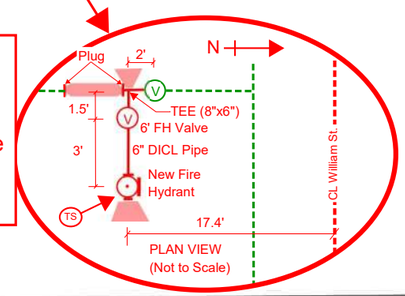
6" FH VALVE = 10.5' NORTH OF FIRE HYDRANT.

1-8"x6" TAPPING SLEEVE & VALVE TO BE FURNISHED AND INSTALLED BY C.O.W. WATER DEPT. UPON FULL PAYMENT. VALVE BOX TO BE SET FLUSH WITH PAVEMENT.
1-FIRE HYDRANT
11 L.F. OF 6" (DICL)
Facing North
BURY LINE ELEVATION=~~1295.91~~ 1296.08
~~N=1685418.45, E=1649805.85~~

Fire Hydrant: N=1,685,407.6 E=1,649,806.6
6" TAP / Fire Hydrant Valve:
N=1,685,417.5 E=1,649,805.7
Top Valve Box Elev.=1295.79

LEGEND
= Thrust Block
V = Ex. 8" Line Valve
= Ex. Water Main
TS = Test Station

NOTE:
CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING WATER LINE PRIOR TO CONSTRUCTION.



Northings (N) & Eastings (E): State Plane Coordinates - Kansas Grid South - NAD83 (2011), EPOCH 2023.
Elevations: NAVD88 (Geoid 18).
As-Built Survey Shots By: Baughman Company, P.A.

SCALE: 1"=10'
0 10 20

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PRIVATE WATER DISTRIBUTION PLANS FOR
WICHITA BIOMEDICAL CAMPUS
WICHITA, KS

FIRE HYDRANT RELOCATIONS

PROJECT NO. 2024-008370PPW
SCALE 1"=10'
DRAWN BJL DESIGNED SPE CHECKED SPE

NO.	REVISION	DATE

SHEET NO. 5A OF 10

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Revisions:
1 07.09.24 ASI 001
2 09.11.24 PR 001
3 09.18.24 ASI 09 to Bid Packages 1 & 2
4 11.14.24 BPM3 Addendum 001

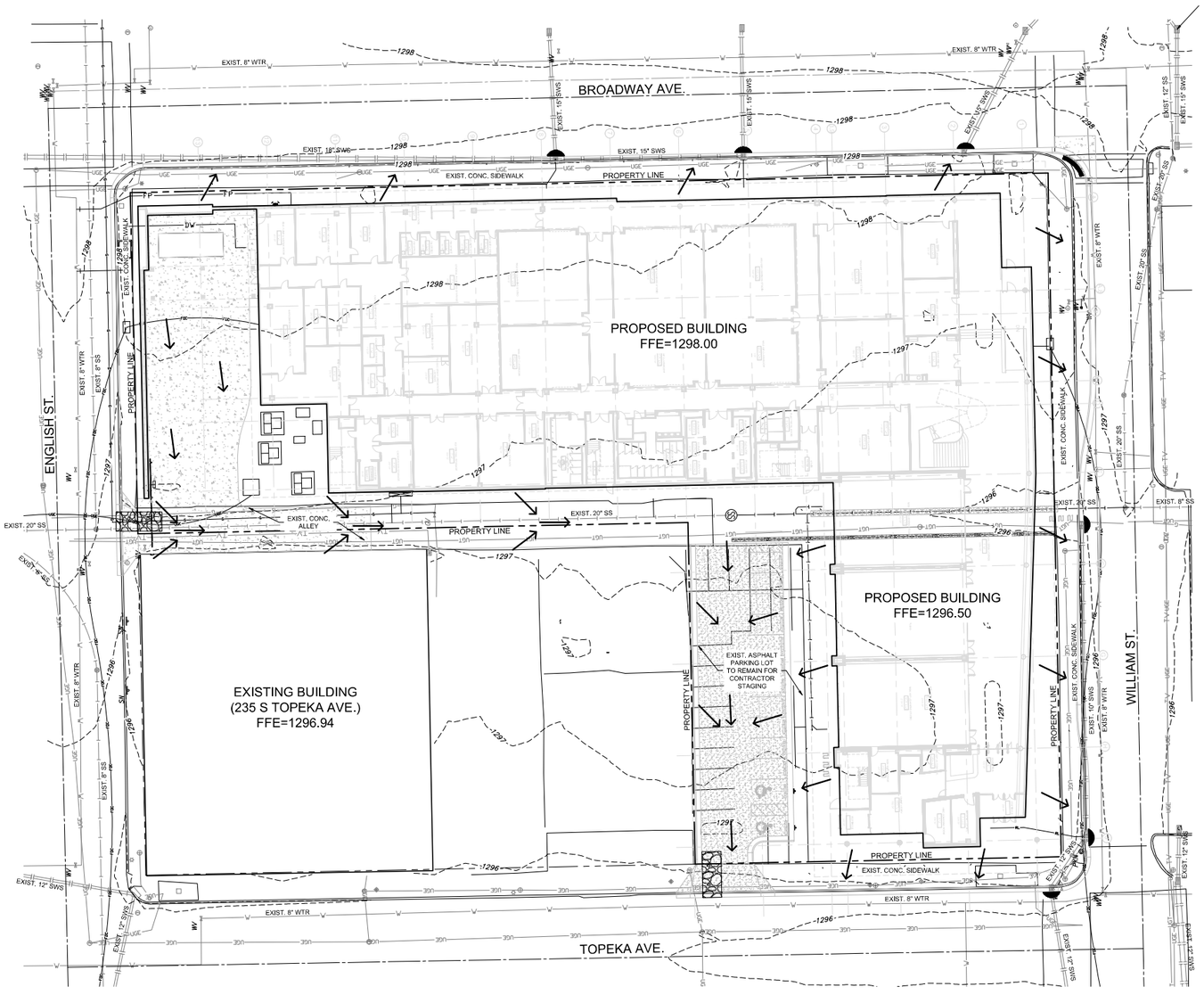
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WICHITA BIOMEDICAL CAMPUS - PHASE 1
201 S. TOPEKA AVENUE
WICHITA, KANSAS 67202
DATE: 09.13.2024 DRAWN BY: NJL

FIRE HYDRANT RELOCATION
A-014707
C209A
BID PACKAGE #3

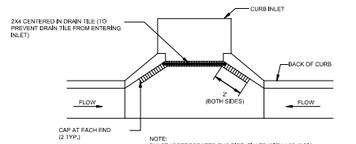
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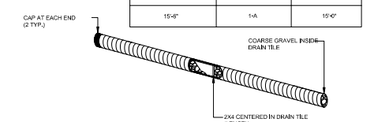
EROSION CONTROL NOTES

1. EROSION CONTROL SHOULD MEET ALL FEDERAL, STATE, COUNTY AND LOCAL CODE STANDARDS.
2. SEE SEEDING NOTES FOR DISTURBED AREA STABILIZATION OUTSIDE OF HARDSCAPE AND LANDSCAPE AREAS.
3. THE CONTRACTOR SHALL COMPLETE STABILIZATION WHEN SOIL DISTURBING ACTIVITIES CEASE TEMPORARILY AND WILL NOT RESUME FOR 14 DAYS OR MORE.
4. CONTRACTOR SHALL PROVIDE EROSION PROTECTION THROUGHOUT PROJECT CONSTRUCTION. THE PLAN PROVIDED HERE WITHIN IS FOR FINAL PROTECTION. VARIOUS PHASES OF THIS PLAN SHALL BE IMPLEMENTED OR MODIFIED TO CONTROL EROSION.
5. THE CONTRACTOR(S) ARE RESPONSIBLE FOR EROSION CONTROL IN CONFORMATION WITH THE APPROVED DRAWINGS UNTIL PROJECT COMPLETION.
6. ALL EXISTING AND PROPOSED EROSION CONTROL MEASURES SHALL BE INSTALLED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND INFORMATION PROVIDED IN THESE PLANS AND MAINTAINED THROUGHOUT CONSTRUCTION BY THE CONTRACTOR UNTIL THE PROJECT IS COMPLETED AND THE EROSION CONTROL MEASURES ARE NO LONGER NEEDED. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH MAINTENANCE AND/OR REPLACEMENT OF EROSION CONTROL MEASURES AS DETERMINED BY THE ENGINEER UNTIL PROJECT IS ACCEPTED OR THE EROSION CONTROL MEASURES ARE NO LONGER NEEDED.
7. IN ORDER TO PREVENT SILT OR SEDIMENT FROM ENTERING ADJACENT PROPERTIES, APPROPRIATE BMP'S SHALL BE IMPLEMENTED WITHIN THE PROJECT.
8. ANY MUD TRACKED ONTO ADJACENT PAVED AREAS OR STREETS SHALL BE REMOVED AT THE END OF EACH WORK DAY.
9. PER THE REQUIREMENTS OF THE NOI/SWPPP, BMP INSPECTION REPORTS SHALL BE COMPLETED BY THE CONTRACTOR WEEKLY AND WITHIN 24 HOURS AFTER A ½" RAIN. REPORTS SHALL BE KEPT WITH THE SWPPP ON SITE.
10. CONTRACTOR SHALL PROVIDE A SIGN NEAR THE ENTRANCE WITH THE FOLLOWING INFORMATION:
    A. CONTACT NAME AND INFORMATION
    B. A COPY OF THE NOI
    C. LOCATION OF SWPPP



NOTE:
PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"

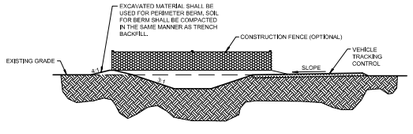


1 CURB INLET PROTECTION
SCALE: NTS

LEGEND

- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING STORM SEWER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS LINE
- EXISTING FIBER OPTIC CABLE
- EXISTING UNDERGROUND TELEPHONE
- EXISTING TV LINE
- EXISTING LIGHT POLE
- EXISTING GRADES
- FLOW PATH
- CURB INLET PROTECTION

SCALE: 1"=20'
0 20 40



2 CONCRETE WASHOUT PIT
SCALE: NTS

NOTES FOR CONCRETE WASHOUT

1. CONCRETE WASHOUT AREAS SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. CONCRETE WASHOUT AREA SHALL INCLUDE A FLAT SUBSURFACE PIT SIZED RELATIVE TO THE AMOUNT OF CONCRETE TO BE PLACED ON SITE. THE SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1. THE VEHICLE TRACKING PAD SHALL BE SLOPED TOWARDS THE CONCRETE WASHOUT.
3. VEHICLE TRACKING CONTROL IS REQUIRED AT THE ACCESS POINT TO ALL CONCRETE WASHOUT AREAS.
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION SITE ENTRANCE, WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION(S) OF THE CONCRETE WASHOUT AREA(S) TO OPERATORS OF CONCRETE TRUCK AND PUMP RIGS.
5. A ONE-PIECE IMPERVIOUS LINER MAY BE REQUIRED ALONG THE BOTTOM AND SIDES OF THE SUBSURFACE PIT IN SANDY OR GRAVELLY SOILS.

MAINTENANCE FOR CONCRETE WASHOUT

1. CONCRETE WASHOUT MATERIALS SHALL BE REMOVED ONCE THE MATERIALS HAVE FILLED THE WASHOUT TO APPROXIMATELY 75% FULL.
2. CONCRETE WASHOUT AREAS SHALL BE ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
3. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE, AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
4. CONCRETE WASHOUT AREAS SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
5. WHEN CONCRETE WASHOUT AREAS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL AND TOPSOIL, AND ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE CONCRETE WASHOUT AREAS SHALL BE STABILIZED.

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