PLOTTED: Thursday, November 21, 2024 @ 07:52PM

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 M 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)	1-800-694-6989
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
EVERGY	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-AWAY 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 CONTRACTORS 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 659-0740 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 PERMITTED TO OPERATE WATER VALVES ONLY 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 WATERLINE(S) 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 316-291-8801.
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
    3165478-3444

J:\PROJECTS\2022\2261910\880_CIVIL\WSU UNIVERSITY STADIUM\00 2309B9 CAD\SHTS\05 CIVIL\WTR\2309B9 WTR TITLE.DWG

PRIVATE WATER DISTRIBUTION SYSTEM IMPROVEMENTS

TO SERVE

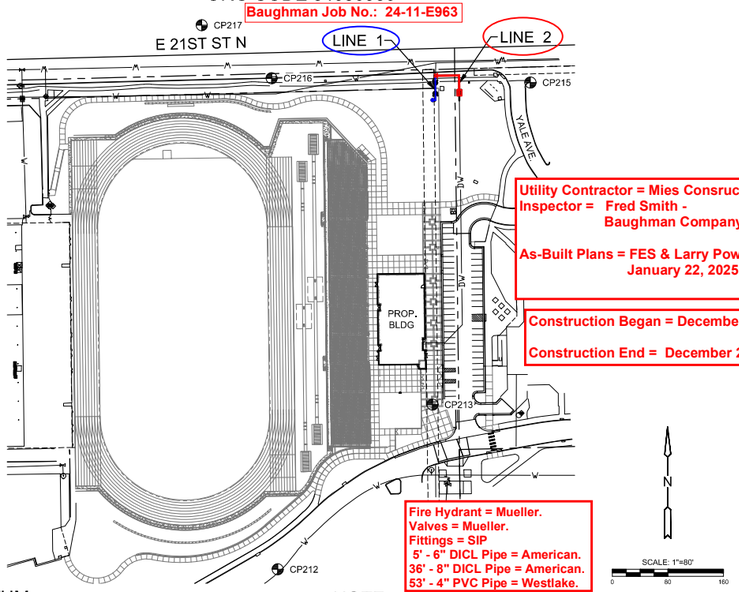
WSU STADIUM PHASE 1A &1B

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

AS-BUILT PLANS

PROJECT NO. 2023-033113PPW
ORG CODE 54030980

Baughman Job No.: 24-11-E963



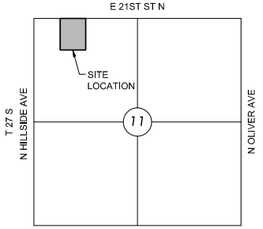
Utility Contractor = Mies Consruction.
Inspector = Fred Smith - Baughman Company

As-Built Plans = FES & Larry Powell January 22, 2025

Construction Began = December 2024

Construction End = December 2024

Fire Hydrant = Mueller.
Valves = Mueller.
Fittings = SIP
5' - 6" DICL Pipe = American.
36' - 4" DICL Pipe = American.
53' - 4" PVC Pipe = Westlake.



VICINITY MAP
No Scale

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-5	DETAILS
5	LINES 1 & 2
6-10	BMP DETAILS
C600	EROSION CONTROL PLAN

LEGEND

EXISTING WATER
PROPOSED WATER

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 1.0001200144. STATE PLANE COORDINATES CAN BE CALCULATED BY MULTIPLYING THE SHOWN VALUES BY 0.99988.

THE VERTICAL DATUM IS BASED ON THE NAVD 88 DATUM, GEOID18.

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.

CONTROL POINTS

CP206
N: 1698553.698 E: 1660109.431 EL:1368.080
MAGNAIL & MKEC CP WASHER TOP OF RWALL

CP207
N: 1698644.367 E: 1660449.669 EL: 1366.965
+CUT SW CORNER AREA INLET

CP208
N: 1698597.112 E: 1660541.286 EL: 1368.865
+CUT SW CORNER AREA INLET

CP209
N: 1698434.230 E: 1660600.270 EL: 1370.645
+CUT SW CORNER AREA INLET

CP210
N: 1698252.538 E: 1660371.248 EL: 1377.130
MAGNAIL & MKEC CP WASHER TOP OF CURB

CP211
N: 1698424.842 E: 1660698.857 EL: 1386.495
MAGNAIL & MKEC CP WASHER NE CORNER CURB INLET

CP212
N: 1698609.645 E: 1661058.287 EL: 1385.965
MAGNAIL & MKEC CP WASHER SE CORNER CURB INLET

CP213
N: 1698846.706 E: 1661281.065 EL: 1385.835
+CUT TC @ SW CORNER ISLAND IN E PARKING LOT

CP214
N: 1698778.996 E: 1661605.439 EL: 1396.995
MAGNAIL & MKEC CP WASHER IN CONC SIGN BASE @ BUS STOP

CP215
N: 1699310.466 E: 1661422.051 EL: 1393.450
MAGNAIL & MKEC CP WASHER TOP OF CURB
CONTROL POINT USED

CP216
N: 1699316.669 E: 1661049.449 EL: 1382.980
SQ CUT TC W OF CURB INLET ON 21ST

CP217
N: 1699392.928 E: 1660948.913 EL: 1380.445
MAGNAIL & MKEC CP WASHER TOP OF CURB

CP218
N: 1699274.180 E: 1660560.927 EL: 1368.455
MAGNAIL & MKEC CP WASHER TOP OF CURB

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

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

Engineering	Approved by Shawn Mellies on 11/19/24
Utilities	Approved by Greg Lolley on 11/19/24
Fire Department	Approved by Jose Ocadiz on11/19/24

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.

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.

MKEC
Wichita, KS • 316-684-9600

PRIVATE WATER DISTRIBUTION PLANS FOR
WSU STADIUM PHASE 1A &1B
WICHITA, KS

NO.	DESCRIPTION	DATE
1	SOCCER PITCH	11/21/2024

©2024
MKEC Engineering
All Rights Reserved
www.mkec.com
Those drawings and their contents, including, but not limited to, all concepts, designs, & ideas are the exclusive property of MKEC Engineering (MKEC), and may not be used or reproduced in any way without the express consent of MKEC.

WATER TITLE SHEET

PROJECT NO.	----
DATE	10/30/2024
SCALE	1"=80'

DESIGNED	DRAWN	CHECKED
SPE	BKS	SPE

NO.	REVISION	DATE

SHEET NO.
1 OF 10

Wichita State University
FACILITIES PLANNING
WICHITA STATE UNIVERSITY
1845 Fairmount St.
Wichita, KS 67260
Tel: (316) 978-3444
www.wichita.edu/fp

PROJECT NUMBERS:
State Project # - A-014666Rev
Site Project # - 2309B9
TESSERE # - 11158R220021

PROJECT TYPE:
New Construction

WICHITA STATE UNIVERSITY
UNIVERSITY STADIUM PHASE 1A/1B:
EAST STADIUM AND TRACK
1845 N Fairmount, Wichita, KS 67260
BUILDING NUMBER 71500-00096
DATE: 10/30/2024 DRAWN BY: BKS CHECKED BY: SPE

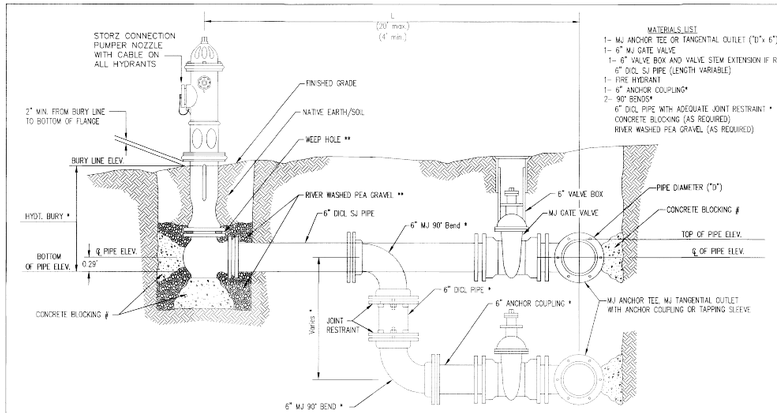
WATER TITLE SHEET

A-014666Rev

C-208

CERTIFIED FINAL

SHEET SIZE: 22x34
PLOT DATE: 11/21/2024 9:15:31 AM
FILE PATH: J:\PROJECTS\2022\2261910\880_CIVIL\WSU UNIVERSITY STADIUM\00 2309B9 CAD\SHTS\05 CIVIL\WTR\2309B9 WTR TITLE.DWG



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)

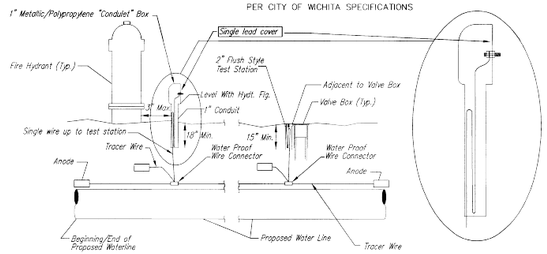
* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2–MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DICL PIPE AS 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 called 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" "conduit" style station as manufactured by ACRA 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 # 12FH7B1LP 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 & trace flush mount test station to nearest location out of pavement or sidewalk.*

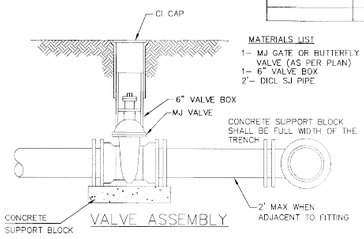
ANODES

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

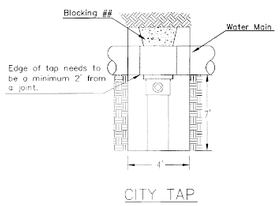
COST IS SUBSIDIARY TO PIPE INSTALLATION

FIRE HYDRANTS REQUIRED				
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
~~10+26.00~~ LINE 1	~~1392.72~~	1388.39	5.0	N/A No.
10+34.7	1392.51			



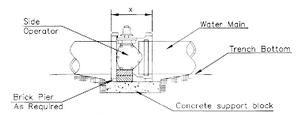
MATERIALS LIST
1– MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1– 6" VALVE BOX
2'– DICL SJ PIPE

VALVE ASSEMBLY



CITY TAP

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

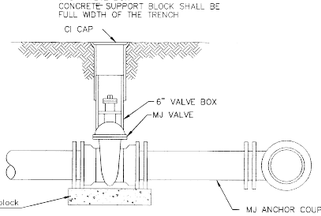


NOTES

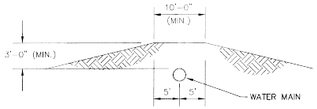
1. This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
2. 6" Valve Box and Cover required per City of Wichita Std. Specifications.
3. Conc. Support Block to be full width of trench.

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

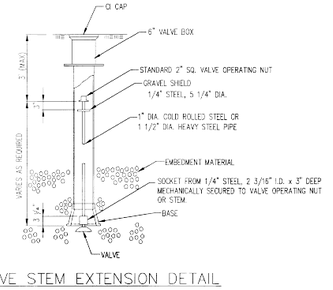


ANCHORED VALVE ASSEMBLY



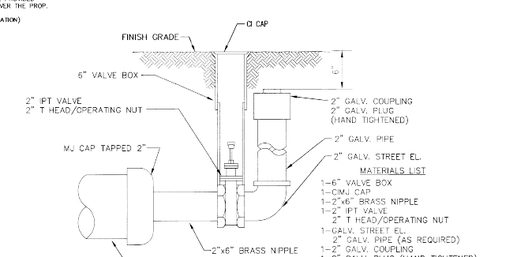
PROTECTIVE FILL DETAIL

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)



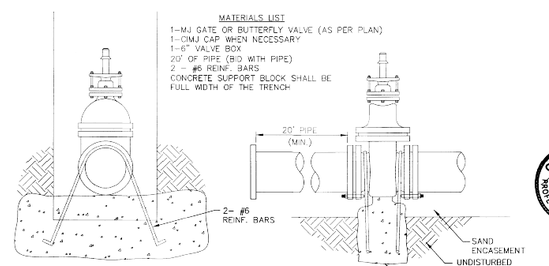
VALVE STEM EXTENSION DETAIL

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



MATERIALS LIST
1–6" VALVE BOX
1–CI/MJ 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 $^{P}/_{SI}$
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL

GARY L. JANZEN, P.E. — 24428 — 10/27/16 — KANSAS PROFESSIONAL ENGINEER

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
2023-03113PW		08/27/2024

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

TESSERE
www.tessere.com
All work herein is authored by TESSERE and is not to be copied or used in any way without the express written consent of Wichita State University. All drawings, specifications, class, designs, and arrangements covering herein constitute the original and unpublished Work of © 2024 TESSERE

MKEC
Wichita, KS • 316.684.9600
MKEC Project No. 220101.0060

SCOTT PRESTON HUGGINS — LICENSED — 24428 — 10/31/24 — KANSAS — PROFESSIONAL ENGINEER

DESCRIPTION	DATE

PROJECT NUMBERS:
State Project # - A-014666Rev
Bond Project # - 2-A-1
TESSERE # - 111568220021

PROJECT TYPE:
New Construction

WICHITA STATE UNIVERSITY
FACILITIES PLANNING
1845 Fairmount St.
Wichita, KS 67260
Tel (316) 978-3444
www.wichita.edu

WICHITA STATE UNIVERSITY
UNIVERSITY STADIUM PHASE 1A/1B:
EAST STADIUM AND TRACK
1845 N Fairmount, Wichita, KS 67260
BUILDING NUMBER 71500-00096
DATE 10/30/2024 DRAWN BY BKS CHECKED BY SPE

STANDARD WATER ASSEMBLY DETAIL

A-014666Rev

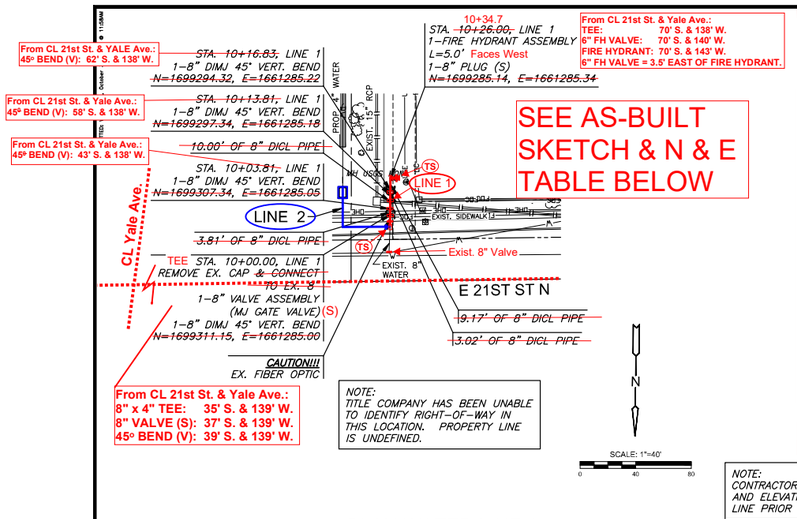
C-209

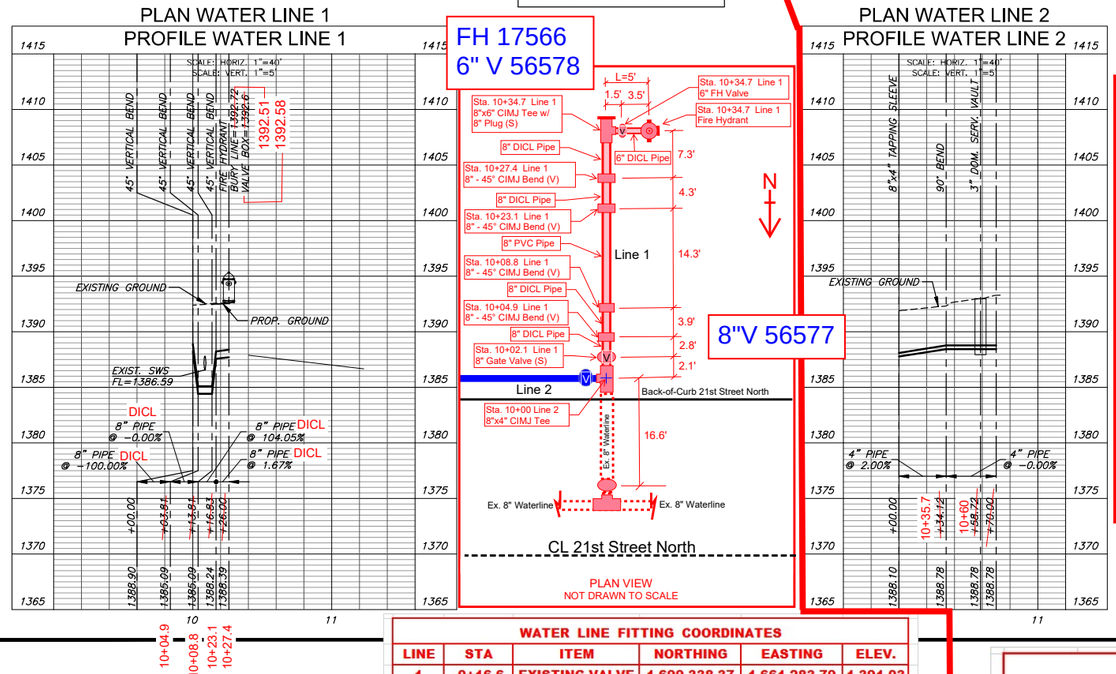
CERTIFIED FINAL

SHEET SIZE: D2S
PLOT DATE: 10/30/2023 2:46:07 PM
FILE PATH: J:\PROJECTS\2022\220101\01699_GLM_WSU UNIVERSITY STADIUM\D0 220699 CAD\SHTSNG CFM\WTR 220699 STD WTR ASSY DTLS.DWG

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

LEGEND
(TS) = Test Station.
CL = Centerline.
V = Vertical.
H = Horizontal.
FH = Fire Hydrant.
Ex. = Existing.





WATER LINE FITTING COORDINATES					
LINE	STA	ITEM	NORTHING	EASTING	ELEV.
1	-0+16.6	EXISTING VALVE	1,699,338.37	1,661,283.79	1,391.03
1	10+02.1	8" GATE VALVE	1,699,319.64	1,661,282.08	1,391.98
1	10+04.9	45° BEND (V)	1,699,316.84	1,661,282.52	1,386.48
1	10+08.8	45° BEND (V)	1,699,312.91	1,661,284.14	1,386.54
1	10+23.1	45° BEND (V)	1,699,298.56	1,661,283.56	1,386.10
1	10+27.4	45° BEND (V)	1,699,294.18	1,661,283.36	1,388.74
1	10+34.7	8" x 6" TEE	1,699,286.87	1,661,284.45	1,389.08
1	10+34.7	6" FH VALVE	1,699,287.17	1,661,281.98	1,392.58
1	10+34.7	FIRE HYDRANT	1,699,286.86	1,661,279.45	1,392.51
VALVE ELEV. = TOP OF BOX			FIRE HYDRANT ELEV. = BURY LINE		

WATER LINE FITTING COORDINATES					
LINE	STA	ITEM	NORTHING	EASTING	ELEV.
2	10+00	8" x 4" TEE	1,699,321.77	1,661,282.64	1,386.41
2	10+01	4" GATE VALVE	1,699,321.80	1,661,283.65	1,391.77
2	10+35.7	90° BEND (H)	1,699,320.23	1,661,318.31	1,388.98
2	10+60	WM VAULT LID	1,699,295.94	1,661,318.96	1,393.01
VALVE ELEV. = TOP OF BOX			FIRE HYDRANT ELEV. = BURY LINE		

PRIVATE WATER DISTRIBUTION PLANS FOR
WSU STADIUM PHASE 1A &1B
WICHITA, KS

©2024 MKEC Engineering All Rights Reserved
These drawings and their contents, including, but not limited to, all concepts, designs, & ideas are the exclusive property of MKEC Engineering (MKEC), and may not be used or reproduced in any way without the express consent of MKEC.

WATER LINES 1 & 2

PROJECT NO.	2023-033113PPW
DATE	08/27/2024
SCALE	1"=40'
DESIGNED	SPE
DRAWN	BKS
CHECKED	SPE

NO.	REVISION	DATE

SHEET NO. 5 OF 10

TESSERE
www.tessere.com
All work herein is authorized by TESSERE and is not to be copied or used in any way without the express written consent of Wichita State University. All drawings, specifications, ideas, designs, and arrangements covering herein constitute the original and unpublished Work of © 2024 TESSERE

MKEC
Wichita, KS • 316.684.9600
MKEC Project No. 220101089

SCOTT PRESTON SWIGERT 24426 10/30/24 LICENSED PROFESSIONAL ENGINEER KANSAS

DATE | DESCRIPTION

PROJECT NUMBERS:
State Project # - A-014666Rev
State Project # - C-212
TESSERE # - 111589220021

PROJECT TYPE:
New Construction

Wichita State University
FACILITIES PLANNING
WICHITA STATE UNIVERSITY
1845 Fairmount St.
Wichita, KS 67260
Tel: (316) 978-3444
www.wichita.edu

WICHITA STATE UNIVERSITY
UNIVERSITY STADIUM PHASE 1A/1B:
EAST STADIUM AND TRACK
1845 N Fairmount, Wichita, KS 67260
BUILDING NUMBER 71500-00096
DATE: 10/30/2024 DRAWN BY: BKS CHECKED BY: SPE

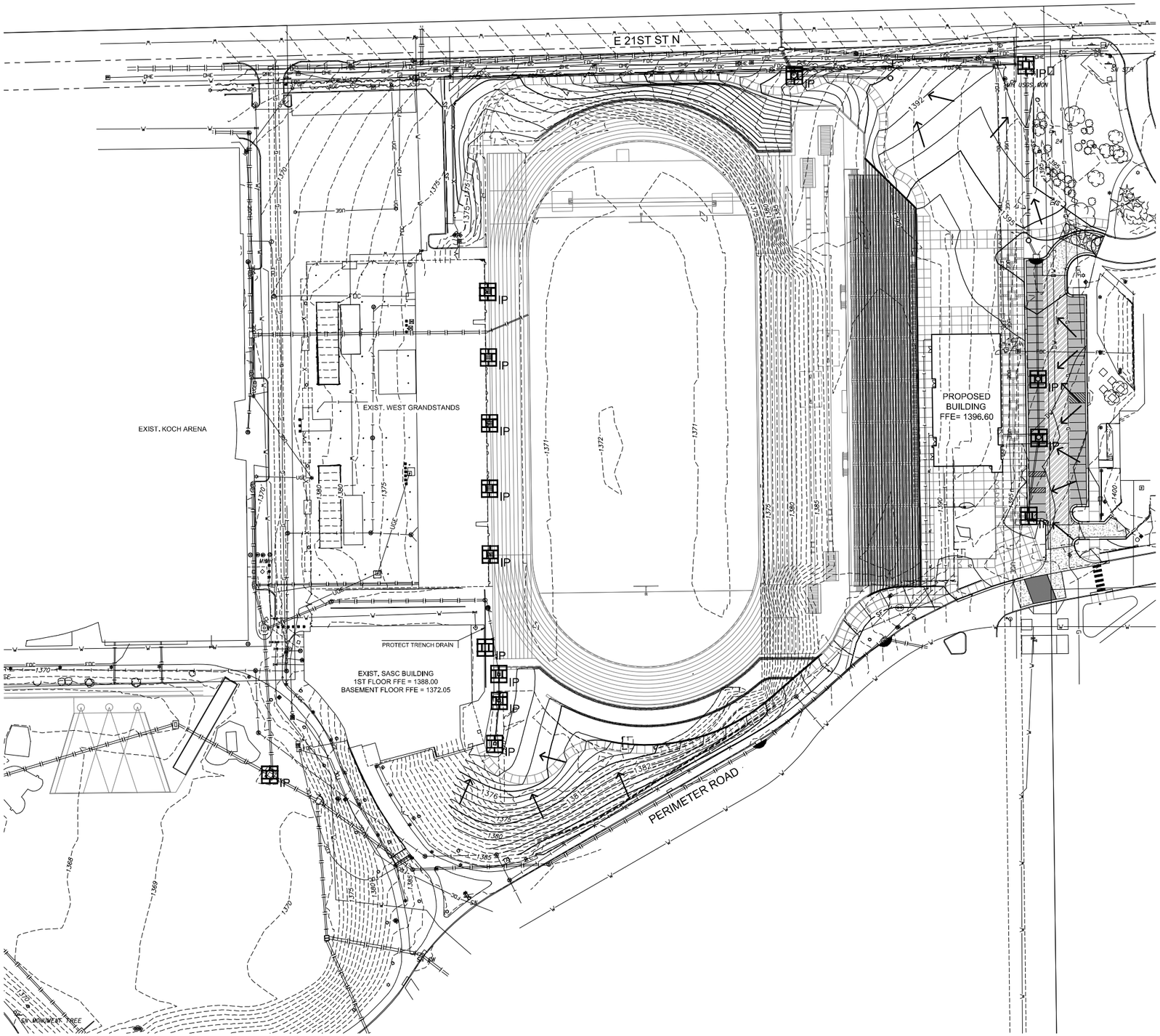
WATER LINES 1 & 2

A-014666Rev

C-212

CERTIFIED FINAL

SHEET SIZE: D28
PLOT DATE: 10/30/2023 8:41:10 AM
FILE PATH: J:\PROJECTS\2022\220101089_GLMV_WSU\UNIVERSITY STADIUM\00 220889 CAD\SHEETS\05 CIVIL\WTR\220889 WTR LINE 1.DWG



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
- PROPOSED GRADES
- SILT FENCE
- CONSTRUCTION ENTRANCE
- FLOW PATH
- AREA INLET PROTECTION
- CURB INLET PROTECTION

TESSERE
www.tessere.com
All work herein is authorized by TESSERE and is not to be copied or used in any way without the express written consent of Wichita State University. All drawings, specifications, ideas, designs, and arrangements appearing herein constitute the original and unpublished Work of. © 2024 TESSERE

MKEC
Wichita, KS • 316.854.9800
MKEC Project No. 220101869

SCOTT PRESTON SPIKES — LICENSED — 24428 — KANSAS — PROFESSIONAL ENGINEER — 10/30/24

DESCRIPTION	DATE

PROJECT NUMBERS:
State Project # - A-014666Rev
State Project # - 71500-00096
TESSERE # - 111SR520021

PROJECT TYPE:
New Construction

Wichita State University
FACILITIES PLANNING
WICHITA STATE UNIVERSITY
1845 Fairmount St.
Wichita, KS 67260
Tel (316) 978-3444
www.wichita.edu

WICHITA STATE UNIVERSITY
UNIVERSITY STADIUM PHASE 1A/1B: EAST STADIUM AND TRACK
1845 N Fairmount, Wichita, KS 67260
BUILDING NUMBER 71500-00096
DATE: 10/30/2024 DRAWN BY: BKS CHECKED BY: SPE

EROSION CONTROL PLAN

A-014666Rev

C-600

CERTIFIED FINAL

SHEET SIZE: 24x36
PLOT DATE: 10/30/2024 1:33:32 PM
FILE PATH: J:\PROJECTS\2022\220101869_SUM_JHS_UNIVERSITY STADIUM\00 220869 CAJ\SHTS\05 CIVIL\SITE\220869-C-C0200.DWG