

PRIVATE WATER DISTRIBUTION SYSTEM IMPROVEMENTS

TO SERVE

# WSU CRASH TEST LAB

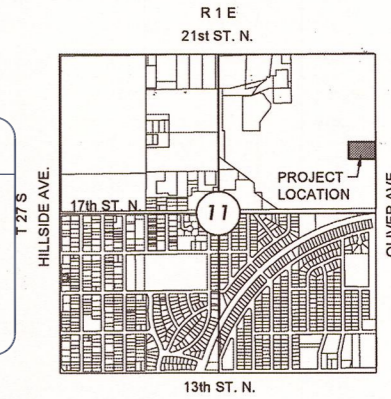
WICHITA, KS 67260  
THE CITY OF WICHITA, KANSAS  
GARY JANZEN, P.E. - CITY ENGINEER

PROJECT NO.  
2162PPW (183021)

## AS BUILTS

Contractor:  
Ewertz  
Excavation  
3/8/2019

Project Inspector:  
Larry Gann  
**KE MILLER**  
ENGINEERING P.A.  
117 E. Lewis, Wichita, KS 67202 (316)264-0242



VICINITY MAP  
No Scale

### INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
C300	TITLE SHEET
C301-C303	DETAILS
C304	FIRE PROTECTION LINES 1 & 2
C305	DOMESTIC WATER LINE 1
C306-C310	BMP DETAILS

### LEGEND

	EXISTING WATER
	PROPOSED WATER

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

Engineering: *Jessica Kallman 8-29-18*  
Utilities: *Ch. J. 9-30-18*  
Fire Department: N/A

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.

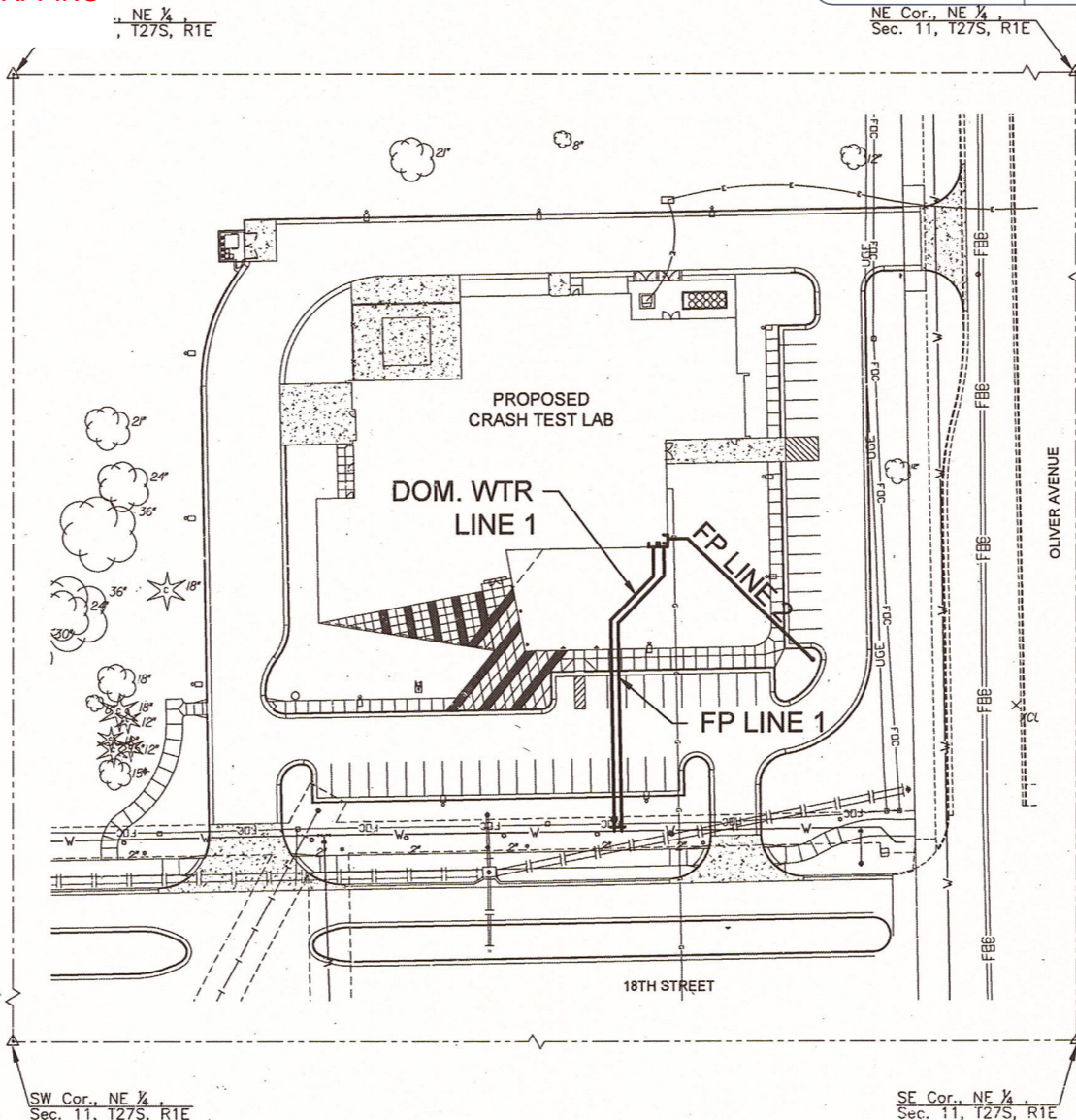
An approved copy of these plans signed by City staff is required on-site.

### GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES 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 1-800-246-6464  
BLACK HILLS ENERGY (GAS) 1-800-694-9889  
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 1-888-249-3930  
KANSAS GAS SERVICE 1-888-462-4999  
WESTAR ENERGY 1-800-544-4867
- UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
- RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED 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 WATER OF THE UNITED STATES OR WATERS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR AT HIS/HER OWNERS RISK. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND TOM MASON AT 316-268-4574 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION, STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER. BRIAN COOK AT 316-268-2911 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 MARKING CONTROL DEVICES (MUCD) 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.
- ALL ELEVATIONS SHOWN ARE NAVD 88.
- ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED PAVEMENT SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.
- ANY SIDEWALK, DRIVE APPROACH, CURB, OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.
- ALL APPLICABLE FEES (TAP, EQLTY, IN LIEU OF A MAIN BENEFIT) MUST BE PAID BEFORE ANY CONNECTIONS CAN BE MADE ON THIS PROJECT. QUOTES CAN BE OBTAINED ON FEES BY CALLING 316-268-4595.
- CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY OR EASEMENT LINE OR WITHIN TWO FEET OF VAULT.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- 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.
- 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 PROGRESS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- THE CONTRACTOR SHALL LAY A TRACER WIRE AND SET TEST STATIONS ALONG ALL WATER PIPE INSTALLED IN ACCORDANCE WITH CITY SPECIFICATIONS AND TRACER WIRE DETAIL ON DETAIL SHEET WL-101. COST IS SUBSIDIARY TO PIPE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY BLOWOFF OF WATERLINES. CONNECTIONS TO THE EXISTING WATERLINE(S) SHALL BE MADE WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS.
- REQUESTS FOR SHORT TERM WATER INTERRUPTIONS SHALL BE MADE TO THE CITY WATER DISTRIBUTION DIVISION AND WILL BE SUBJECT TO THEIR APPROVAL. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ANY PROPERTY OWNER, BUSINESS, AND/OR TENANTS THAT WILL HAVE WATER SERVICE INTERRUPTED AT LEAST 5 DAYS IN ADVANCE. SUCH NOTIFICATIONS SHOULD INDICATE THE TIME AND DATE THAT THE WATER WILL BE TURNED OFF AND WHEN THE SERVICE WILL BE RESTORED. NO BUSINESS, PROPERTY OWNER, AND/OR TENANTS SHALL BE WITHOUT WATER SERVICE FOR MORE THAN 8 HOURS. PROPOSED TIE IN LOCATIONS WHICH WILL AFFECT WATER SERVICE TO PROPERTY OWNERS SHALL BE PERFORMED DURING NON-PEAK HOURS.
- THE CONTRACTOR MUST SCHEDULE THE CONNECTIONS TO THE EXISTING MAIN WITH THE CITY SUCH THAT THERE IS A MINIMUM DISRUPTION OF SERVICE. CONNECTIONS SHALL BE MADE DURING PERIODS OF LOW WATER USAGE. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED SCHEDULE FOR COMPLETING WORK FOR CITY APPROVAL AT LEAST 10 DAYS PRIOR TO BEGINNING CONSTRUCTION.
- DEFLECTIONS AT PIPE JOINT OR COUPLINGS SHALL NOT EXCEED THE PIPE MANUFACTURERS RECOMMENDED MAXIMUM. WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE CUM LONG SLEEVE OR MULTIPLE JOINTS.
- ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
- VALVES 12 INCH AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION, 48 HOURS OF ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-281-8921.
- ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE CONTRACTOR WILL REIMBURSE THE CITY FOR TAPPING FEES.
- 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.
- 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 SONAR, INSPECTION, TESTING, NOTIFICATION, PROVIDING AS-BUILT DRAWINGS, PAYING FOR ALL NECESSARY CONNECTIONS, AND/OR STREET REPAIR FEES AND PROVIDING PIPE MATERIAL AND OTHER CERTIFICATIONS.
- DEVELOPER FOR THIS PROJECT IS:  
WICHITA STATE UNIVERSITY  
1845 FAIRMOUNT STREET  
WICHITA, KS 67260  
ERIC KING - ASSOC. V.P. FOR FACILITIES  
(316) 978-3030

JM EAGLE C-900  
STAR FITTINGS  
PRO-TRACE WIRE

FROM CENTER OF  
OLIVER & 18TH  
STREET WEST  
205.5' AND 51'  
NORTH TO TAPPING  
VALVE



### CONTROL POINTS

PNT	NORTH	EAST	ELEV	DESCRIPTION
113	1599125.091	1950299.591	1438.915	5/8" inch red MNEC Control Pt. ID cap
180	1597783.201	1950187.544	1410.410	Chaslec "X"
181	1599010.479	1954651.887	1405.240	5/8" red w/ 2" alum. MNEC Control Pt. ID cap
182	1597700.541	1954690.336	1408.115	Chaslec "X"

### DATUM

1 - The Project Horizontal Datum is based on the NAD83, Kansas State Plane Coordinate System, South Zone, (US Survey Feet Definition), with a Combined Adjustment Factor (CAF) of 1.0001200141. All coordinates and dimensions shown on these plans are modified to Ground values.  
The following equations can be used for conversion:  
Ground Coordinates to State Plane Coordinates = Ground x 1/CAF  
State Plane Coordinates to Ground Coordinates = State Plane x CAF  
2 - The Vertical Datum used is NAVD88.

### UTILITIES

The underground utilities shown hereon were marked in the field by the utility owners in response to Kansas One Call Ticket Number: 15032546. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. They surveyor further does not warrant that the underground utilities shown are in the exact locations indicated although he does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.

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 MABC'D REVIEW.

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



Project No:  
11158.18001

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GLM Architecture  
118 E. 17th Street, Suite 101  
Wichita, KS 67202  
www.glm.com

Wichita State University  
1845 Fairmount St.  
Wichita, KS 67260  
Tel: (316) 978-3030  
www.wichita.edu

Department of Administration  
Office of Facilities & Property  
Management  
Design, Construction & Compliance  
700 Harrison, Suite 1200  
Topeka, Kansas 66603  
Phone: 785-296-6899

WICHITA STATE UNIVERSITY  
CRASH TEST LAB

1845 FAIRMOUNT, WICHITA, KANSAS 67260-0047

ISSUE DATE: 09/05/2018 DRAWN BY: MKB CHECKED BY: SPE REV:

PPW TITLE SHEET

A-013430

C300

ORIGINAL CONTRACT DOCUMENTS



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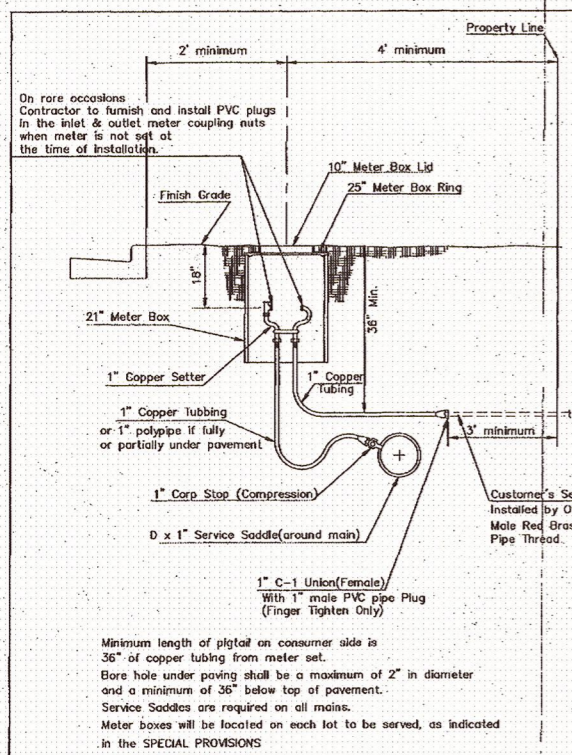


Wichita State University  
1845 Fairmount St.  
Wichita, KS 67280  
Tel: (316) 978-9030  
www.wichita.edu

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

WICHITA STATE UNIVERSITY  
CRASH TEST LAB  
1845 FAIRMOUNT, WICHITA, KANSAS 67280-0047

STW WATER SERVICE  
DETAIL  
A-013430  
C302  
ORIGINAL  
CONTRACT  
DOCUMENTS

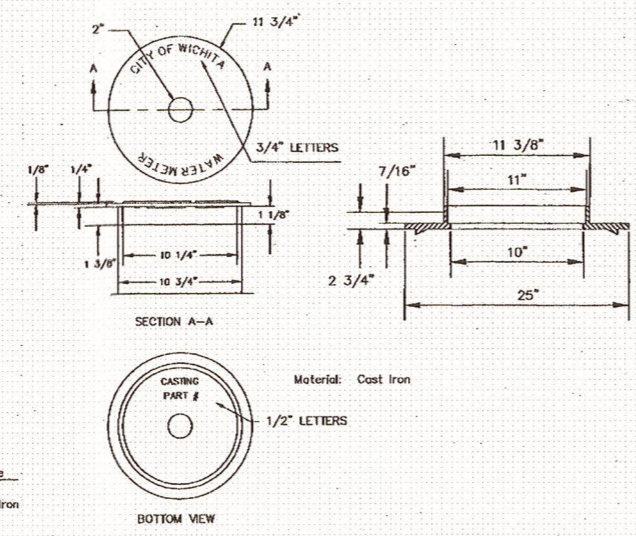


TYPICAL 1" METER SETTING

Minimum length of pipe on consumer side is 36" of copper tubing from meter set.  
Bore hole under paving shall be a maximum of 2" in diameter and a minimum of 36" below top of pavement.  
Service Saddles are required on all mains.  
Meter boxes will be located on each lot to be served, as indicated in the SPECIAL PROVISIONS

2" SERVICE OUTLET ASSEMBLY  
TOP VIEW

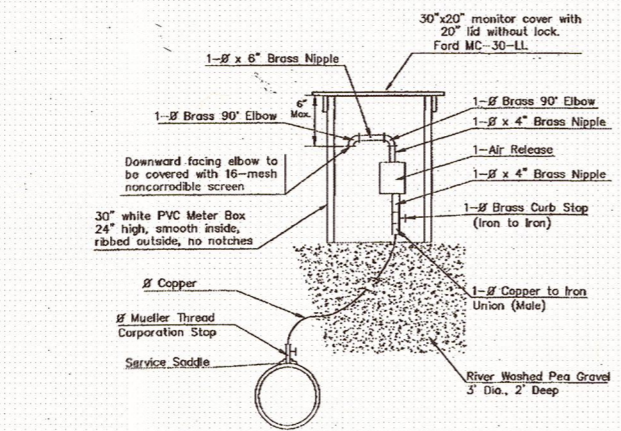
Notes: Where the 2" Service Outlet Assembly is to be used to connect a 2" main to another main, the 2" valve shall be a 2" IPT Gate Valve. 2" ball or globe valves shall not be approved for this use.



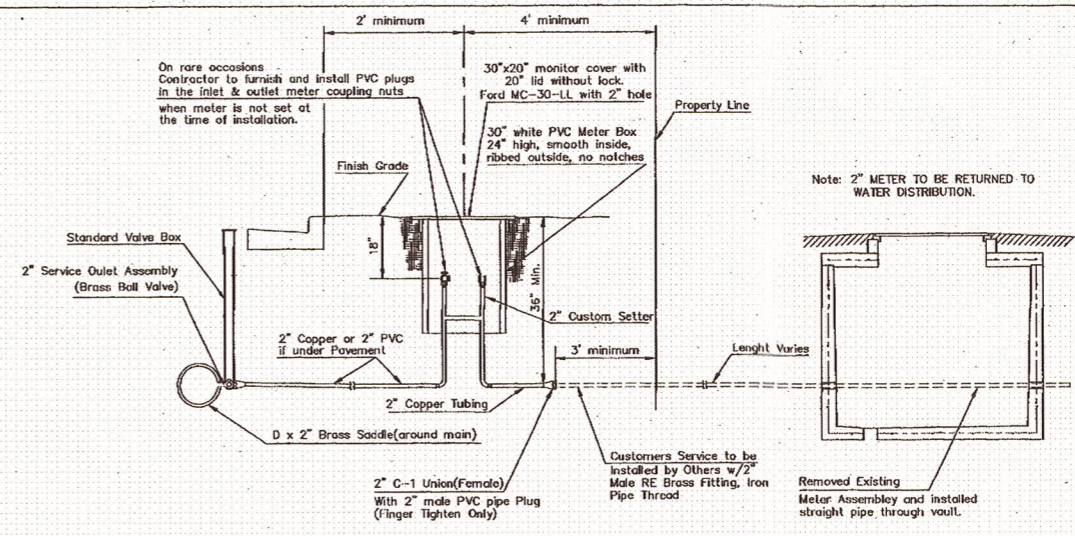
NOT TRAFFIC RATED  
RING & LID FOR 1" METER BOX

- 1 - 1/2" Mueller Thread Corporation Stop
- 1 - 1/2" Type "K" Copper Tubing
- 1 - 1/2" Copper to Iron Union (Male)
- 1 - 1/2" Brass Curb Stop (Iron to Iron)
- 2 - 1/2" x 1/4" Brass Nipple
- Air Release
- 2 - 1/2" Brass Elbows (90°)
- 1 - 1/2" x 1/4" Brass Nipple
- 1 - 30" Monitor Cover
- 1 - 20" Meter Lid

NOTE:  
THE 1 1/2" AIR RELEASE ASSEMBLY WILL TYPICALLY BE USED ON WATER MAINS 24" AND SMALLER, AS SPECIFICALLY DESIGNATED IN THE PLANS. COMBINATION AIR RELEASE ASSEMBLIES WILL BE SPECIFICALLY DESIGNED FOR PROJECTS WITH LARGER MAINS, AND WILL BE INCLUDED IN THE PLANS.

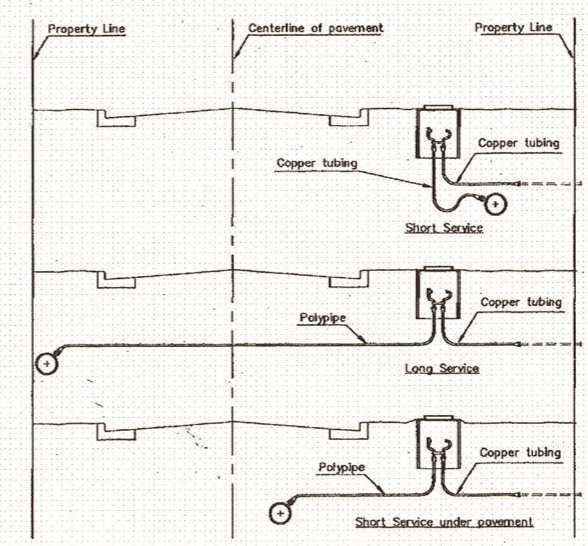


MATERIALS FOR 1" or 2" AIR RELEASE ASSEMBLY  
Ø = 1" or 2"



TYPICAL 2" METER SETTING  
TYPICAL 2" METER SETTING INVOLVING EXISTING 2" METER VAULT

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



SERVICE TYPES

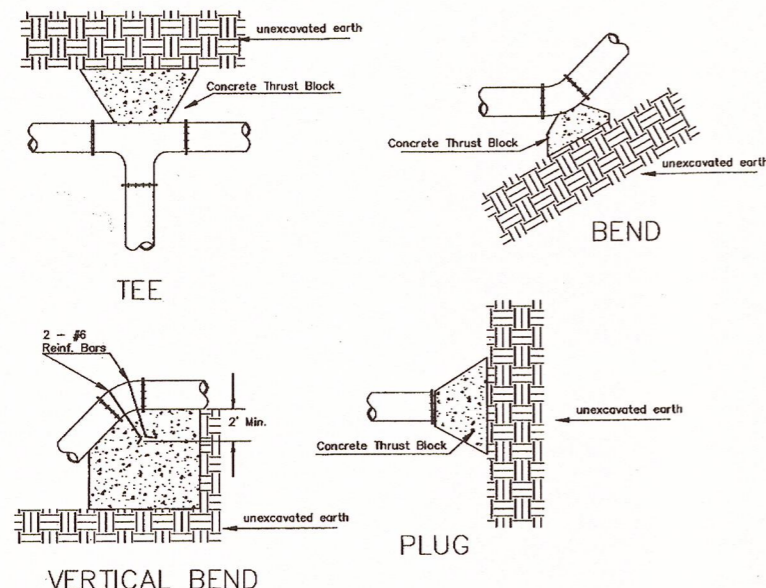
 PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			STANDARD WATER SERVICE DETAIL		
			CITY ENGINEER GARY JANZEN, P.E.		
PROJECT NUMBER 2162PPW	QCA NUMBER 183021	DATE 09/05/2018	SHEET C302		
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501					

WL-102



STW WATER SERVICE  
DETAIL  
A-013430  
C302  
ORIGINAL  
CONTRACT  
DOCUMENTS

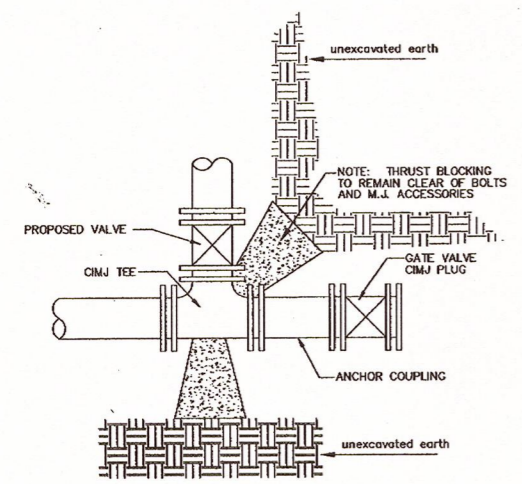
ISSUE DATE: 09/05/2018 DRAWN BY: MKB CHECKED BY: SFE REV:



VERTICAL BEND

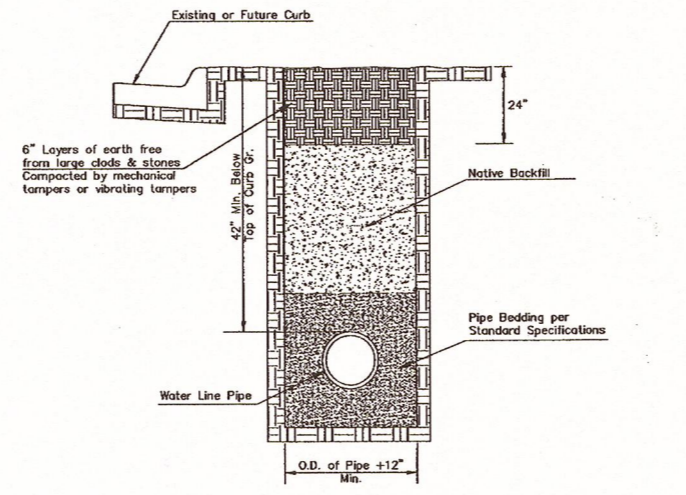
PIPE SIZE	THRUST AT FITTINGS IN TONS--AT 150#/IN <sup>2</sup> P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

TYPICAL THRUST BLOCKS

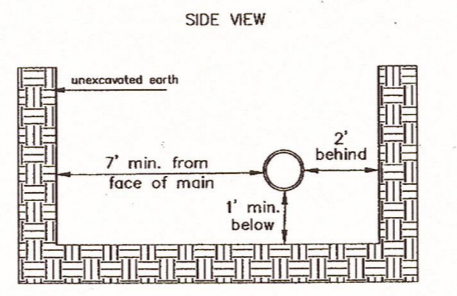


KEY BLOCK DETAIL

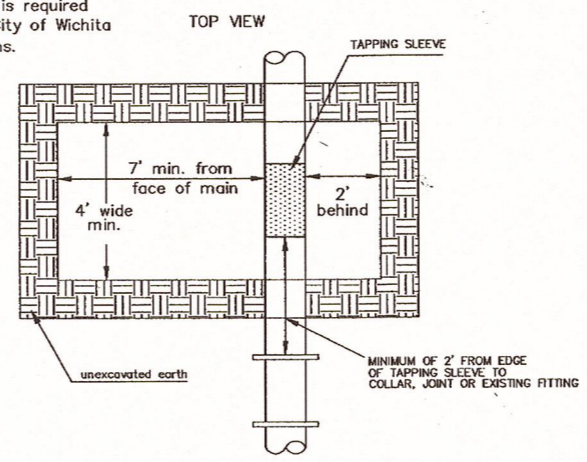
\* PLANS GOVERN UNLESS OTHERWISE NOTED ON PLANS



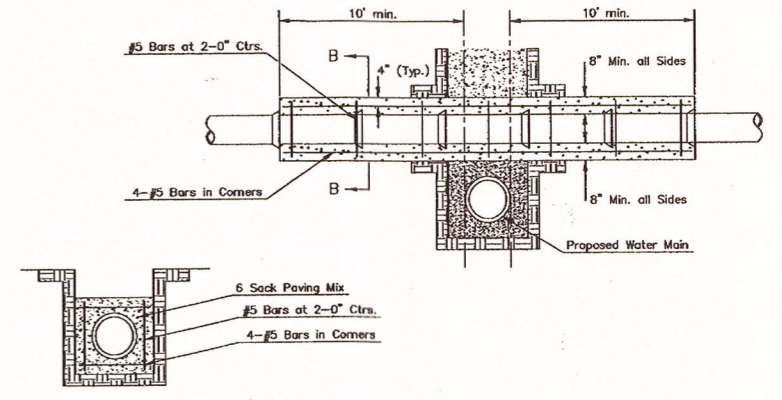
TRENCH COMPACTION IN ROAD RIGHT-OF-WAY



Note: When shoring is required it is to be per The City of Wichita Standard Specifications.



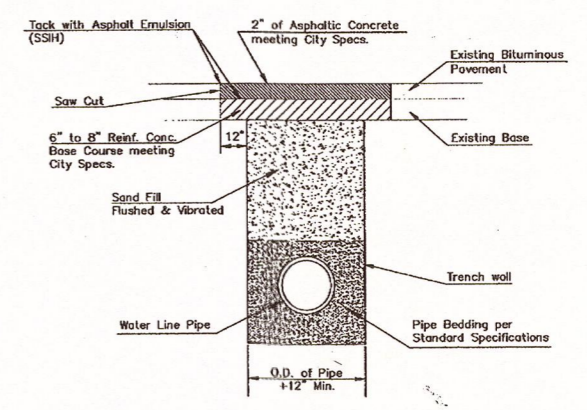
EXCAVATION FOR WET TAP



SECTION B-B

REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.



PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS



<p><b>CITY OF WICHITA</b> PUBLIC WORKS &amp; UTILITIES ENGINEERING DIVISION</p>	<p>MISCELLANEOUS WATER DETAILS</p> <p>CITY ENGINEER <b>GARY JANZEN, P.E.</b></p>		
	PROJECT NUMBER	OCA NUMBER	DATE
	2162PPW	183021	09/05/2018
	CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET C303

WL-104

Project No: 11158.18001

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**GLM Architecture**  
1115 S. West 10th Street, Suite 101  
Wichita, KS 67203  
Tel: (316) 268-4501

Wichita State University  
1846 Fairmount St.  
Wichita, KS 67280  
Tel: (316) 978-3030  
www.wichita.edu

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

**WICHITA STATE UNIVERSITY**  
CRASH TEST LAB  
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ISSUE DATE: 06/05/2018 DRAWN BY: MKB CHECKED BY: SPE REV:

MISC. WATER DETAILS

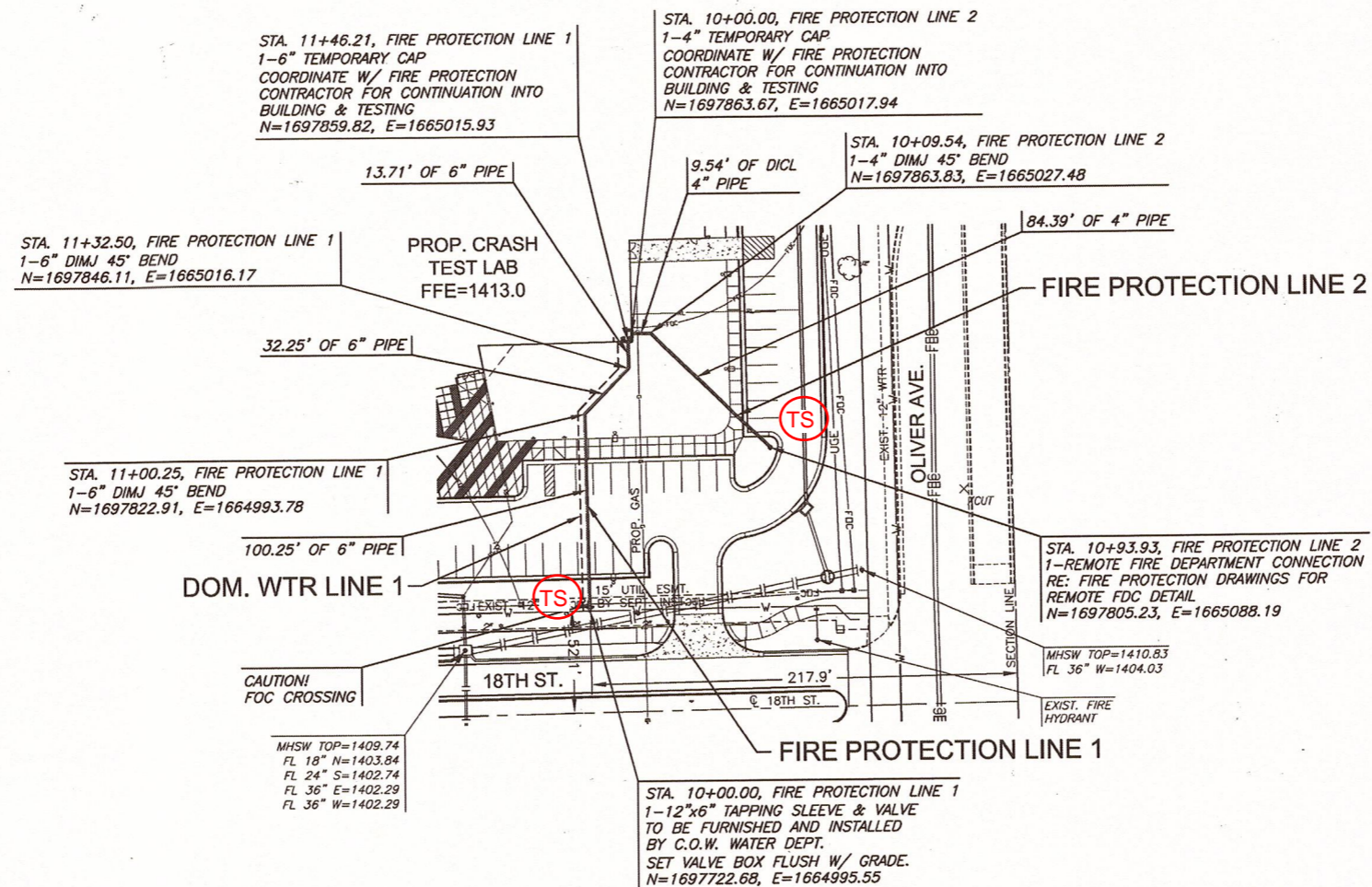
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**C303**

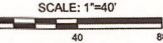
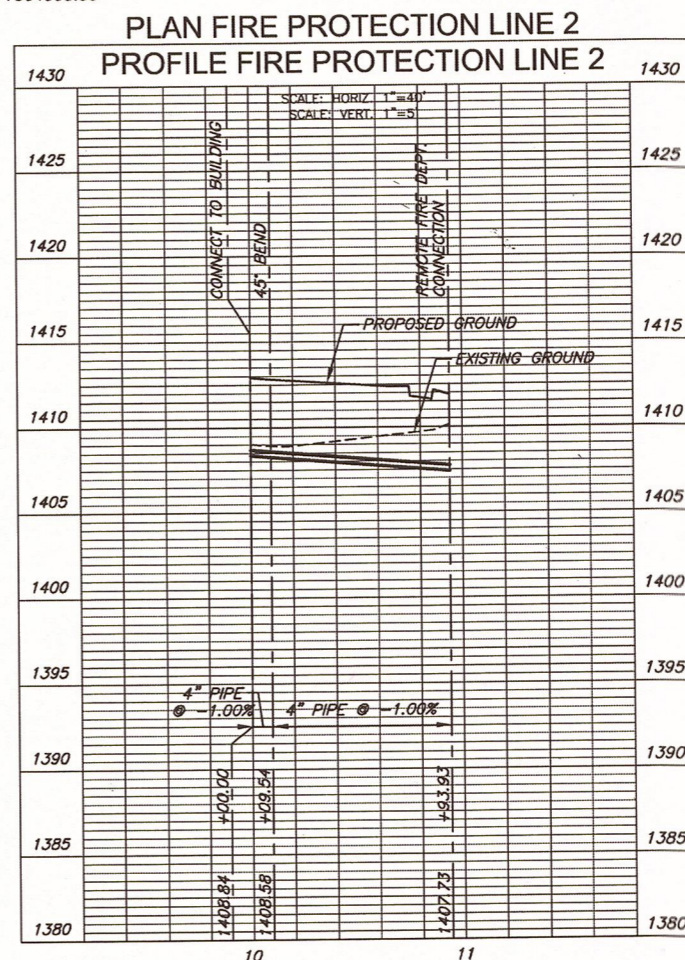
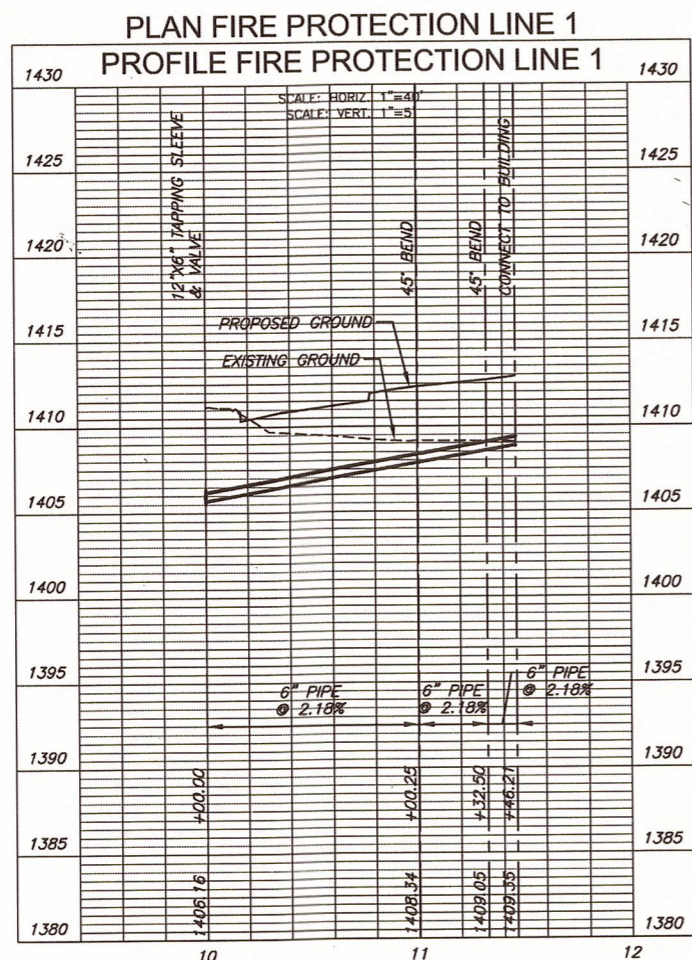
ORIGINAL CONTRACT DOCUMENTS

**MKEC**  
Wichita, KS • 316-684-8800

FROM CENTER  
OF OLIVER &  
18TH STREET  
WEST 205.5' &  
51' NORTH TO  
TAPPING VALVE



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



**AS BUILTS**

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

Project No:  
11158.18001

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GLWV Architecture  
1818 S. Oregon, Wichita, KS 67211  
Tel: (316) 264-0242  
www.glv.com

WICHITA STATE UNIVERSITY  
1845 Fairmount St.  
Wichita, KS 67260  
Tel: (316) 978-3030  
www.wichita.edu

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

**WICHITA STATE UNIVERSITY**  
**CRASH TEST LAB**  
1845 FAIRMOUNT, WICHITA, KANSAS 67260-0047

ISSUE DATE: 09/05/2018 DRAWN BY: MBG CHECKED BY: SPE REV:

FIRE PROTECTION  
LINE 1 & LINE 2

**A-013430**

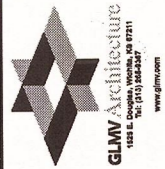
**C304**

ORIGINAL  
CONTRACT  
DOCUMENTS

**MKEC**  
Wichita, KS • 316-684-9600

Project No:  
11158.18001

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Wichita, KS 67260  
Tel: (316) 978-3030  
www.wichita.edu

Department of Administration  
Office of Facilities & Property  
Management & Compliance  
Design, Construction & Compliance  
700 Lehigh, Suite 1200  
Topeka, Kansas 66603  
Phone 785-286-8899

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DOMESTIC WATER  
LINE 1

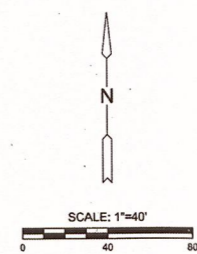
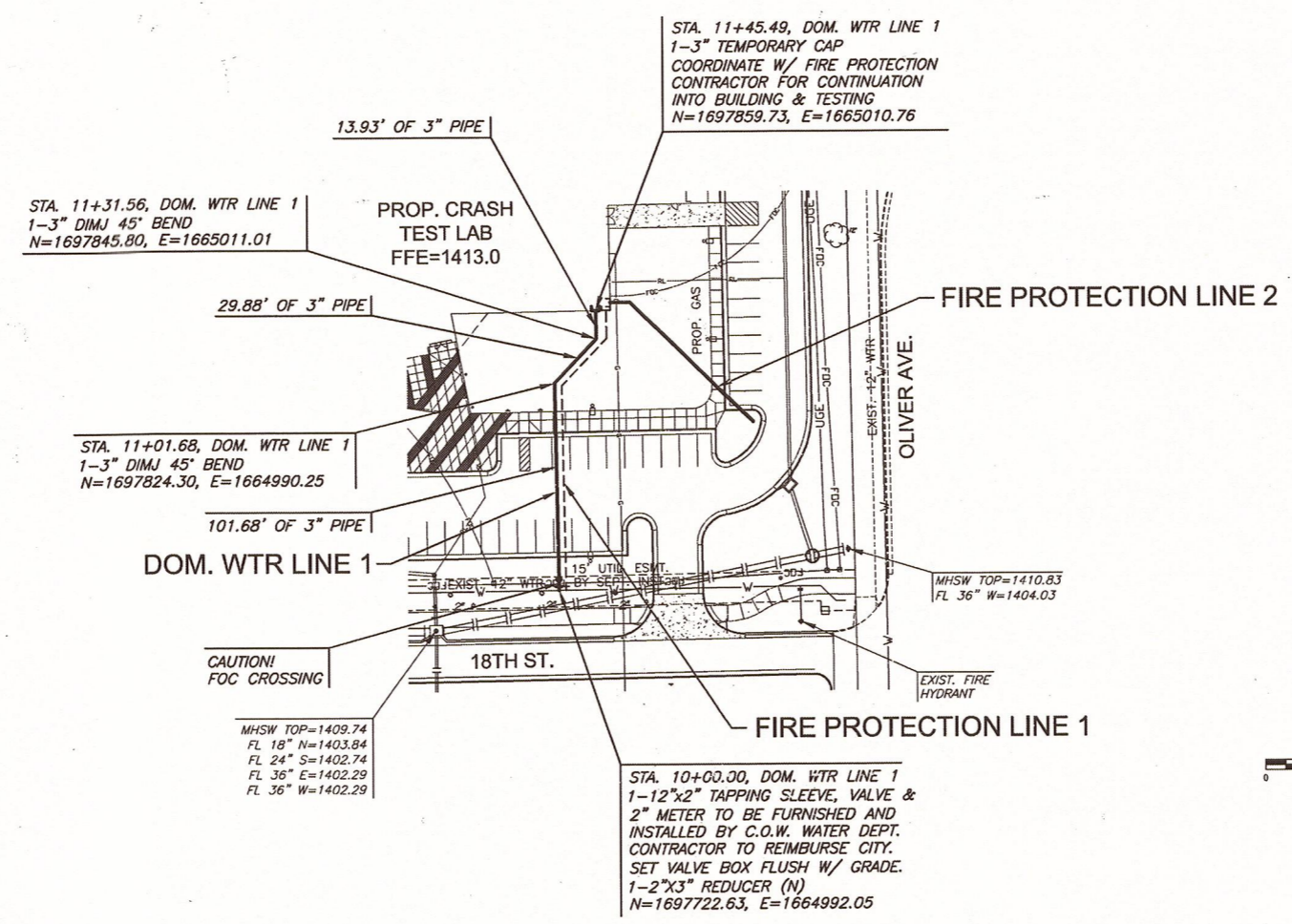
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C305

ORIGINAL  
CONTRACT  
DOCUMENTS

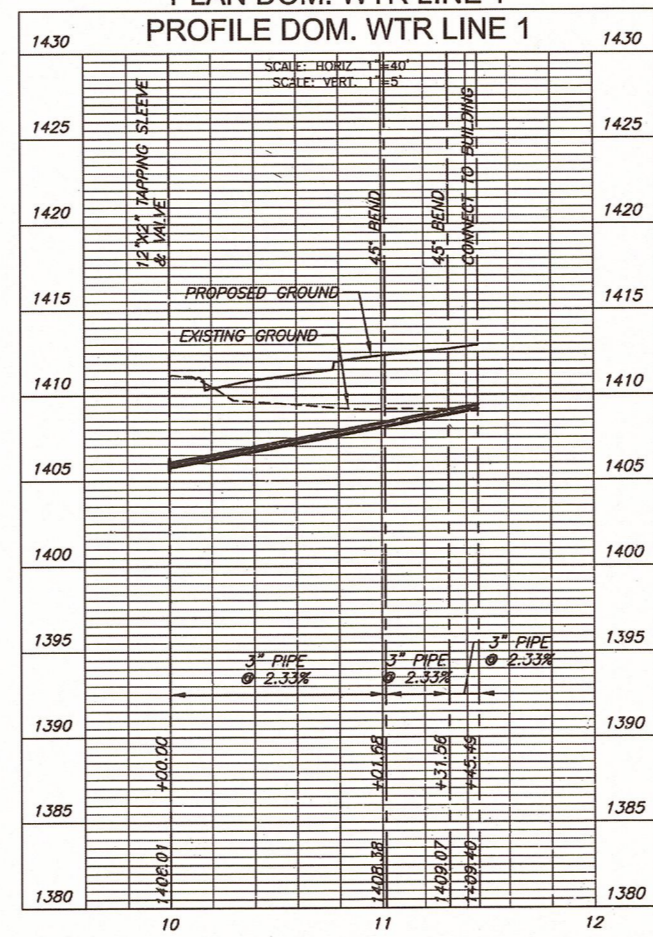


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NOTE:  
CONTRACTOR TO VERIFY LOCATION  
AND ELEVATION OF EXISTING WATER  
LINE PRIOR TO CONSTRUCTION.

PLAN DOM. WTR LINE 1  
PROFILE DOM. WTR LINE 1



No meter yet

**AS BUILTS**

**KEMILLER**  
ENGINEERING PA

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

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