

**GENERAL NOTES**

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- THE 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:  

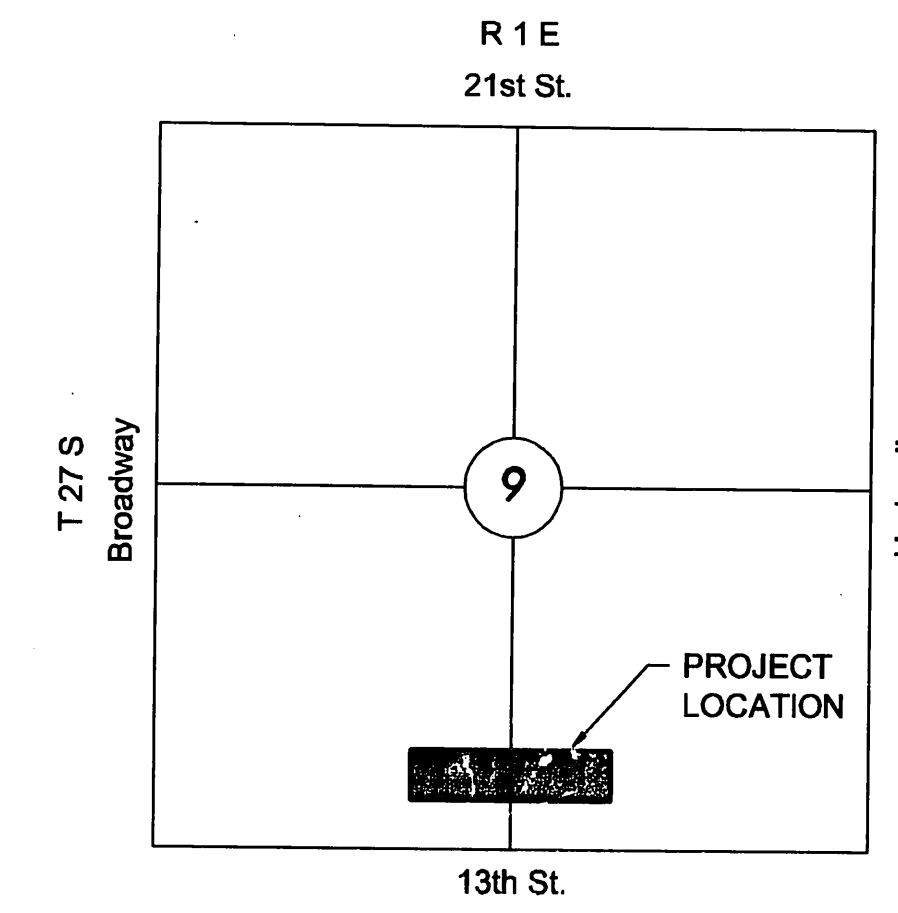
AT&T	1-800-246-8464
BLACK HILLS ENERGY (GAS)	1-800-694-8999
CITY OF WICHITA WATER	1-316-268-4555
CITY OF WICHITA SEWER	1-316-268-4073
CITY OF WICHITA STORMWATER	1-316-268-4090
CITY OF WICHITA TRAFFIC	1-316-268-4034
COX COMMUNICATIONS	1-888-249-3530
KANSAS GAS SERVICE	1-888-482-4950
WESTAR ENERGY	1-800-544-4857
- 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 ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLAN, 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 WOULD 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 WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
- TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY 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 WATER DISTRIBUTION DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REFIELD 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.
- THE CONTRACTOR SHALL NOTIFY STEVE DEGENHARDT OR CITY FIELD STAFF 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 COON AT [bcoon@wichita.gov](mailto:bcoon@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.
- 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.
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- 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 MANUFACTURER'S RECOMMENDED MAXIMUM, WHERE DEFLECTIONS ARE GREATER THAN THE MAXIMUM ALLOWED, THE CONTRACTOR SHALL UTILIZE DIMJ LONG SLEEVE OR MULTIPLE JOINTS.
- ANY EXTENSION GREATER THAN ONE LENGTH OF PIPE SHALL REQUIRE TESTING.
- ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
- CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY OR EASEMENT LINE.
- VALVES 12 INCH AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION, 48 HOURS OF ADVANCE NOTICE IS REQUIRED.
- 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 CONTRACTOR'S EXPENSE.
- WORK DONE UNDER THIS PROJECT IS SUBJECT TO THE CITY OF WICHITA REQUIREMENTS FOR CONSTRUCTION OF INFRASTRUCTURE IMPROVEMENTS BY PRIVATE CONTRACTOR. 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.
- THE CITY OF WICHITA WILL COMPLETE THE INSPECTION AND CONSTRUCTION ENGINEERING FOR THE PUBLIC AND PRIVATE PORTIONS OF WATER LINE CONSTRUCTION.
- IF CONCRETE PIPE IS SELECTED FOR USE ON THIS PROJECT, THE CONTRACTOR IS REQUIRED TO PROVIDE ADAPTORS.
- CONTRACTOR SHALL NOTIFY THE BNSF ROADMASTER, AT 115 EAST 5TH STREET, NEWTON, KANSAS 67114, TELEPHONE (316) 284-3479 (OFFICE) OR (800) 672-8819 (CELL), OR AT LEAST TEN (10) BUSINESS DAYS PRIOR TO INSTALLATION OF CASING PIPE AT THE BNSF RAIL CROSSING AT 14TH AND WASHINGTON.
- ALL ONSITE EMPLOYEES FOR THE CITY OF WICHITA AND THE CONTRACTOR SHALL COMPLETE BNSF'S SAFETY ORIENTATION PROGRAM PRIOR TO ENTERING THE PREMISES. ALL ONSITE PERSONNEL MUST POSSESS A CARD CERTIFYING COMPLETION OF THE SAFETY ORIENTATION. ([www.BNSFcontractor.com](http://www.BNSFcontractor.com))
- A FULLY EXECUTED COPY OF THE PIPELINE LICENSE AGREEMENT BETWEEN THE CITY OF WICHITA AND BNSF RAILWAY COMPANY MUST BE AVAILABLE UPON REQUEST AT THE JOB SITE. THIS AGREEMENT ALLOWS AUTHORIZATION FOR CONSTRUCTING THE NEW PIPELINE CROSSING UNDER THE BNSF RAILWAY.
- CARGILL PAID RAILROAD LIABILITY INSURANCE VIA CHECK SUBMITTED TO BNSF. CONTRACTOR IS NOT RESPONSIBLE FOR RAILROAD LIABILITY INSURANCE.
- PAVING REMOVAL AND REPLACEMENT (PUBLIC AND PRIVATE), CURB & GUTTER REMOVAL AND REPLACEMENT, SEEDING, AND GENERAL SITE CLEANUP SHALL BE PAID FOR UNDER THE RESTORATION BID ITEM.
- WAREHOUSE FLOOR EXCAVATION, BACKFILL, AND CONCRETE FLOOR RESTORATION SHALL BE SUBSIDIARY TO 12" DICI PIPE INSTALLATION.
- DEVELOPER FOR THIS PROJECT IS:  
CARGILL, INC.  
1401 N. MOSLEY  
WICHITA, KS 67214  
ROB BOARDMAN  
316-680-8097

PRIVATE WATER DISTRIBUTION SYSTEM IMPROVEMENTS  
TO SERVE  
**CARGILL FIRE WATER SERVICE**

PROJECT NO. 1978PPW

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

OCA 607861

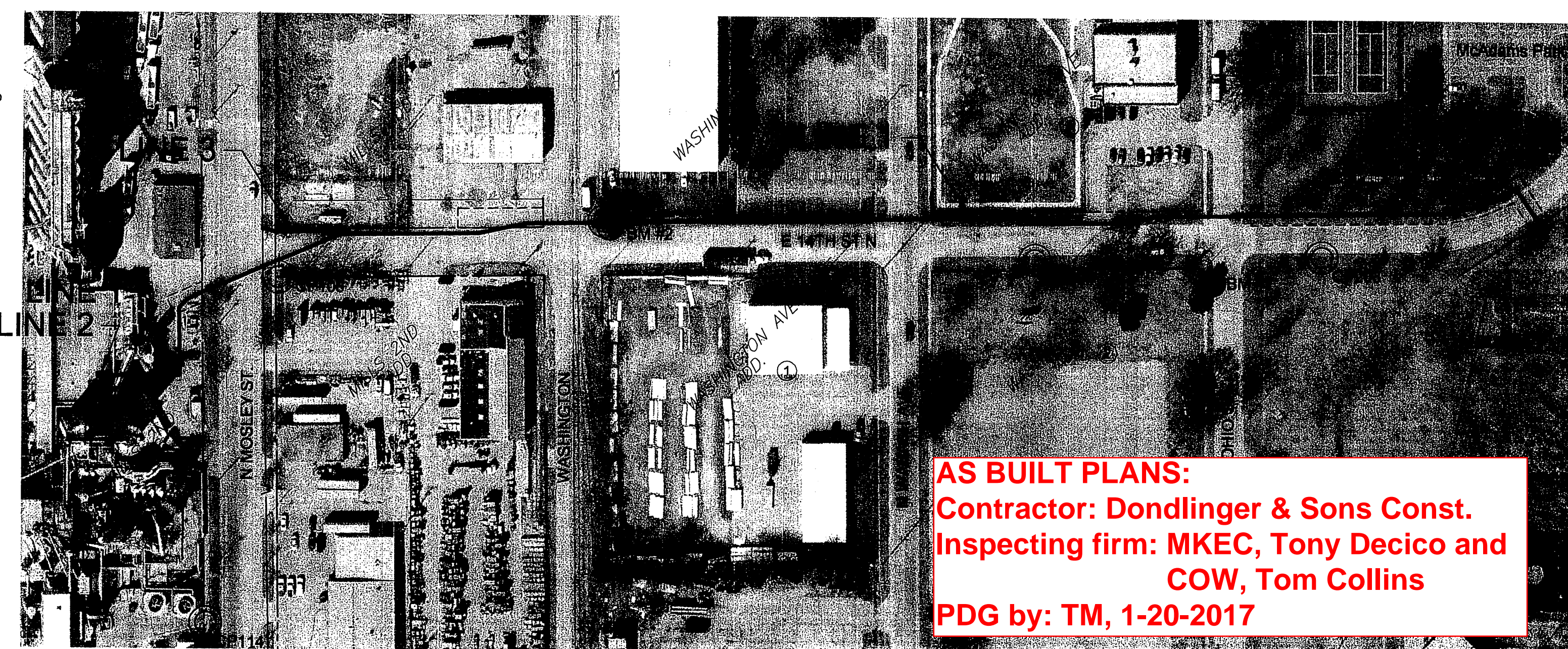


VICINITY MAP

No Scale

**INDEX TO DRAWINGS**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-4	WATER DETAILS
5-7	PLAN & PROFILES
8-9	PAVING DETAILS
10-14	BMP SHEETS
15-19	FINAL PLATS



**BENCHMARKS AND CONTROL POINTS**

- BM#1**  
CHISELED SQUARE ON TOP OF CURB AT THE SOUTH END OF AN INLET @ THE SOUTHWEST CORNER OF OHIO AND 14TH STREET.  
ELEVATION = 1305.19 (NAVD 88)
- BM#2**  
CHISELED SQUARE ON THE EAST RETURN AT THE NORTHEAST CORNER OF WASHINGTON AND 14TH STREET.  
ELEVATION = 1305.40 (NAVD 88)

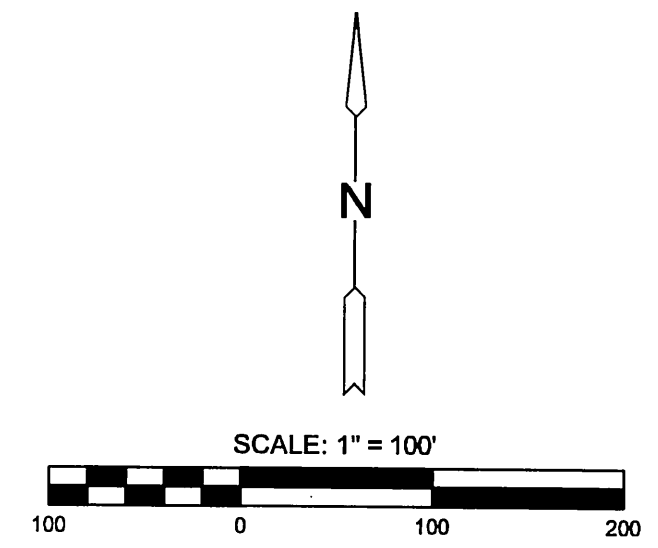
**CONTROL POINTS**

PT NO.	NORTH	EAST	ELEV.	DESCRIPTION
103	1694072.248	1651888.810	1305.215	DISC BM 1
106	1694492.437	1651696.623	1305.699	5/8" REBAR w/ MKEC DESIGN PT ID CAP
110	1695206.955	1651607.053	1306.189	5/8" REBAR w/ MKEC DESIGN PT ID CAP
114	1694136.058	1651623.401	1305.220	CHISELED "X"
203	1694519.474	1652773.714	1305.208	5/8" REBAR w/ MKEC DESIGN PT ID CAP
204	1694514.907	1652477.661	1305.990	5/8" REBAR w/ MKEC DESIGN PT ID CAP
205	1694553.102	1652033.039	1305.524	5/8" REBAR w/ MKEC DESIGN PT ID CAP

**DATUM**

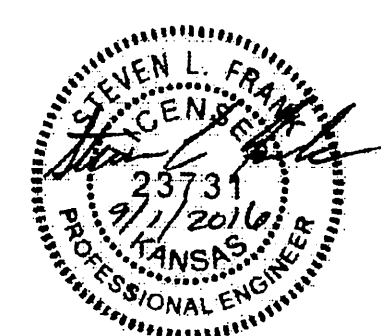
- THE PROJECT HORIZONTAL DATUM IS BASED ON THE NAD83, KANSAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, (US SURVEY FEET DEFINITION), WITH A COMBINED ADJUSTMENT FACTOR (CAF) OF 1.000120014. ALL COORDINATE AND DIMENSIONS SHOWN ON THESE PLANS ARE MODIFIED TO GROUND VALUES.
- THE FOLLOWING EQUATIONS CAN BE USED FOR CONVERSION:  
GROUND COORDINATES TO STATE PLANE COORDINATES = GROUND X 1/CAF  
STATE PLANE COORDINATES TO GROUND COORDINATES = STATE PLANE X CAF
- 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: 15050275. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION 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.



**LEGEND**

- EXISTING WATER
- PROPOSED WATER



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

Engineering: *Rebecca* 9/9/2016  
Utilities: *Tom* 9-9-2016  
Fire Department: *Tom* 9/9/16

**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.



WATER DISTRIBUTION PLANS FOR  
**CARGILL FIRE WATER SERVICE**  
WICHITA, KANSAS

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www.mkec.com  
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**TITLE SHEET**

PROJECT NO.	1978PPW	
DATE	MAR. 2016	
SCALE	1"=100'	
DESIGNED	DRAWN	CHECKED
SLF	SLF	MAB
NO.	REVISION	DATE
0	IFC	09-31-16

SHEET NO.  
1 OF 19

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- IF CONCRETE PIPE IS SELECTED FOR USE ON THIS PROJECT, THE CONTRACTOR IS REQUIRED TO PROVIDE ADAPTORS.
- CONTRACTOR SHALL NOTIFY THE BNSF ROADMASTER, AT 115 EAST 5TH STREET, NEWTON, KANSAS 67114, TELEPHONE (316) 284-3479 (OFFICE) OR (866) 672-8819 (CELL), OR AT LEAST TEN (10) BUSINESS DAYS PRIOR TO INSTALLATION OF CASING PIPE AT THE BNSF RAIL CROSSING AT 14TH AND WASHINGTON.
- ALL ONSITE EMPLOYEES FOR THE CITY OF WICHITA AND THE CONTRACTOR SHALL COMPLETE BNSF'S SAFETY ORIENTATION PROGRAM PRIOR TO ENTERING THE PREMISES. ALL ONSITE PERSONNEL MUST POSSESS A CARD CERTIFYING COMPLETION OF THE SAFETY ORIENTATION. ([www.BNSFcontractor.com](http://www.BNSFcontractor.com))
- A FULLY EXECUTED COPY OF THE PIPELINE LICENSE AGREEMENT BETWEEN THE CITY OF WICHITA AND BNSF RAILWAY COMPANY MUST BE AVAILABLE UPON REQUEST AT THE JOB SITE. THIS AGREEMENT ALLOWS AUTHORIZATION FOR CONSTRUCTING THE NEW PIPELINE CROSSING UNDER THE BNSF RAILWAY.
- CARGILL PAID RAILROAD LIABILITY INSURANCE VIA CHECK SUBMITTED TO BNSF. CONTRACTOR IS NOT RESPONSIBLE FOR RAILROAD LIABILITY INSURANCE.
- PAVING REMOVAL AND REPLACEMENT(PUBLIC AND PRIVATE), CURB & GUTTER REMOVAL AND REPLACEMENT , SEEDING, AND GENERAL SITE CLEANUP SHALL BE PAID FOR UNDER THE RESTORATION BID ITEM.
- WAREHOUSE FLOOR EXCAVATION, BACKFILL, AND CONCRETE FLOOR RESTORATION SHALL BE SUBSIDIARY TO 12" DI CL PIPE INSTALLATION.
- DEVELOPER FOR THIS PROJECT IS:  
CARGILL, INC.  
1401 N. MOSLEY  
WICHITA, KS 67214  
ROB BOARDMAN  
316-680-8097

PRIVATE WATER DISTRIBUTION SYSTEM IMPROVEMENTS

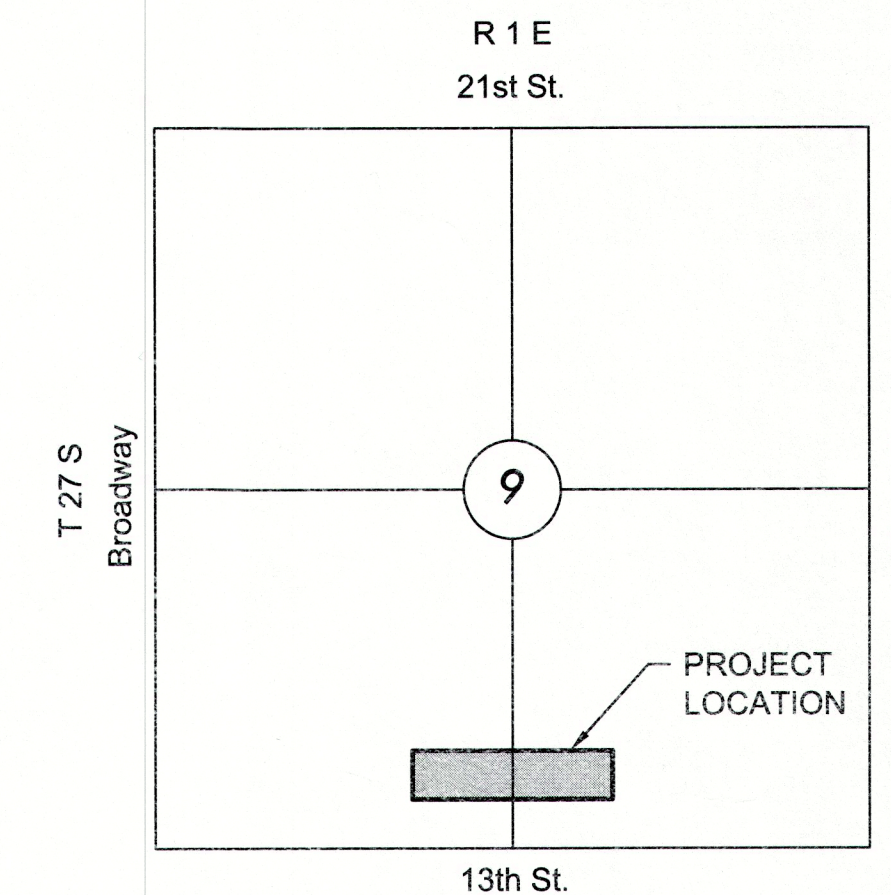
TO SERVE

**CARGILL FIRE WATER SERVICE**

PROJECT NO. 1978PPW

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

OCA 607861

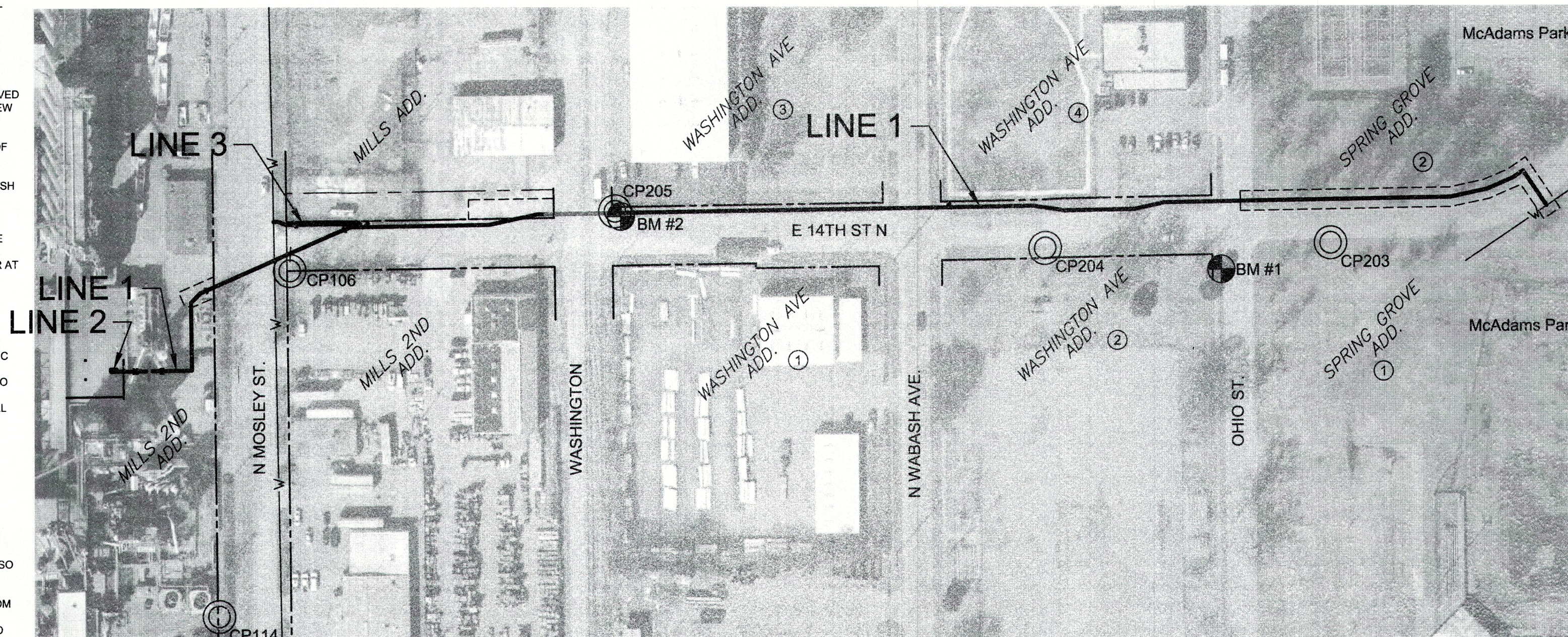


**VICINITY MAP**

No Scale

**INDEX TO DRAWINGS**

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-4	WATER DETAILS
5-7	PLAN & PROFILES
8-9	PLAN & PROFILES
10-14	BMP SHEETS
15-19	FINAL PLATS

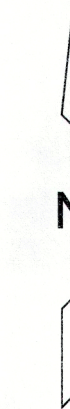


**BENCHMARKS AND CONTROL POINTS**

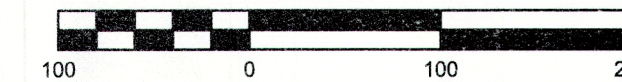
Fitting and Pipe Detail Report Project: Cargill Fire Water Service 1978 PPW (607861)

Contractor: Dondlinger & Sons Construction, Engineer: Greg Baalman, Inspector: Tom Collins

Quantity	Unit	Type	Manufacturer	Size & Type	Remarks
1020	lf	Pipe, WL 20"	Northern Pipe Products	20" PVC_C905_DR18_RJ	Water Line Pipe
432	lf	Pipe, DI 20"	US Pipe	20" Ductile Iron RJ	Water Line Pipe
94	lf	Pipe, 32" Steel Casing	US Pipe	32" Steel Pipe	Casing Pipe
93	lf	Pipe, WL 2"	Vinylplex	2" PVC_1120_SDR21	Water Line Pipe
1	ea	Tapping Sleeve	Forterra	48" x 20"	Mechanical Joint
1	ea	Tapping Valve	Clow	20" Ductile Iron RJ	Mechanical Joint
2	ea	Anchored Valve Assembly	Kennedy 4500	20" Butterfly Valve RJ	Mechanical Joint
1	ea	Air Release Assembly	A.R.I.	2" D-040	NPT
1	ea	90° Bend	Sigma	20" Ductile Iron RJ	Mechanical Joint
1	ea	45° Bend	Sigma	20" Ductile Iron RJ	Mechanical Joint
2	ea	22.5° Bend	Sigma	20" Ductile Iron RJ	Mechanical Joint
10	ea	11.25° Bend	Sigma	20" Ductile Iron RJ	Mechanical Joint
10	ea	Sleeve	Sigma	20" Ductile Iron RJ	Mechanical Joint
1	ea	Tapping Sleeve	McDonald	20" x 2"	Mechanical Joint
1	ea	Tapping Sleeve	McDonald	8" x 2"	Mechanical Joint
2	ea	Tapping Valve	Mueller	2" Ductile Iron RWGV	Mechanical Joint
1	ea	90° Bend	Sigma	2" Ductile Iron	Mechanical Joint
1	ea	45° Bend	Sigma	2" Ductile Iron	Mechanical Joint
2	ea	22.5° Bend	Sigma	2" Ductile Iron	Mechanical Joint



SCALE: 1" = 100'



**LEGEND**

- EXISTING WATER
- PROPOSED WATER

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

Engineering \_\_\_\_\_  
Utilities \_\_\_\_\_  
Fire Department \_\_\_\_\_

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.

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



WATER DISTRIBUTION PLANS FOR  
**CARGILL FIRE WATER SERVICE**  
WICHITA, KANSAS

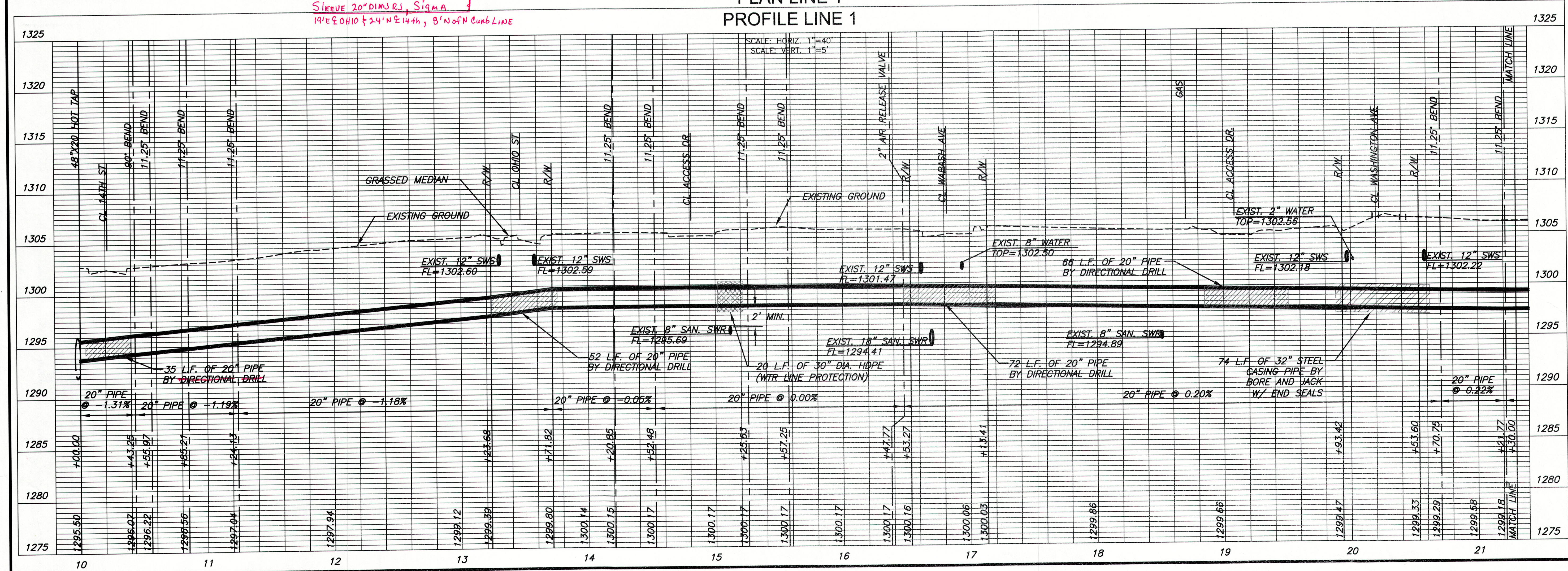
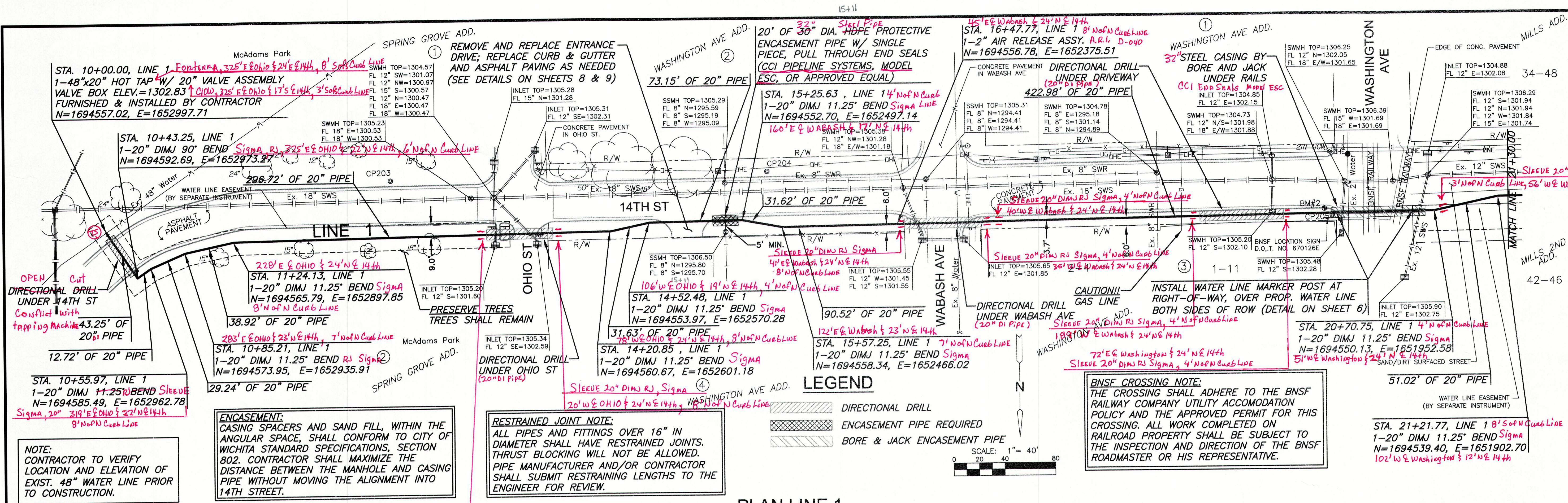
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**TITLE SHEET**

PROJECT NO.	1978PPW	
DATE	MAR. 2016	
SCALE	1"=100'	
DESIGNED	DRAWN	CHECKED
SLF	SLF	MAB
NO.	REVISION	DATE
0	ISSUED FOR BID	07-22-16
SHEET NO.		
1 OF 19		

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www.mkec.com  
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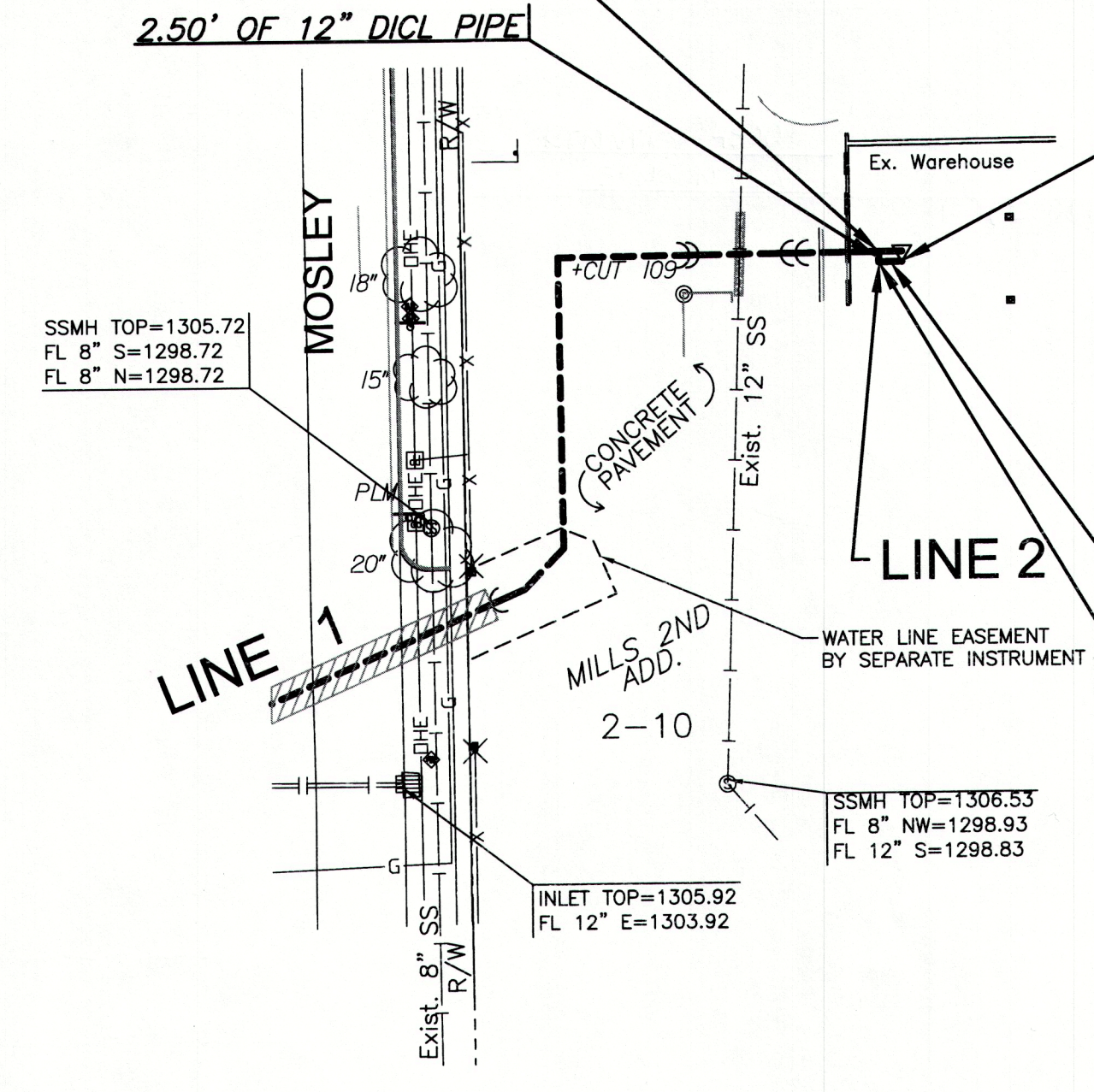
<b>PLAN AND PROFILE</b>		
PROJECT NO.	1978PPW	
DATE	MAR. 2016	
SCALE	1"=40'	
DESIGNED	DRAWN	CHECKED
SLF	SLF	MAB
ISSUED FOR BID	07-22-16	
NO. REVISION	DATE	
SHEET NO.	5 OF 19	





PLANNED: Friday, July 22, 2016 @ 04:07PM

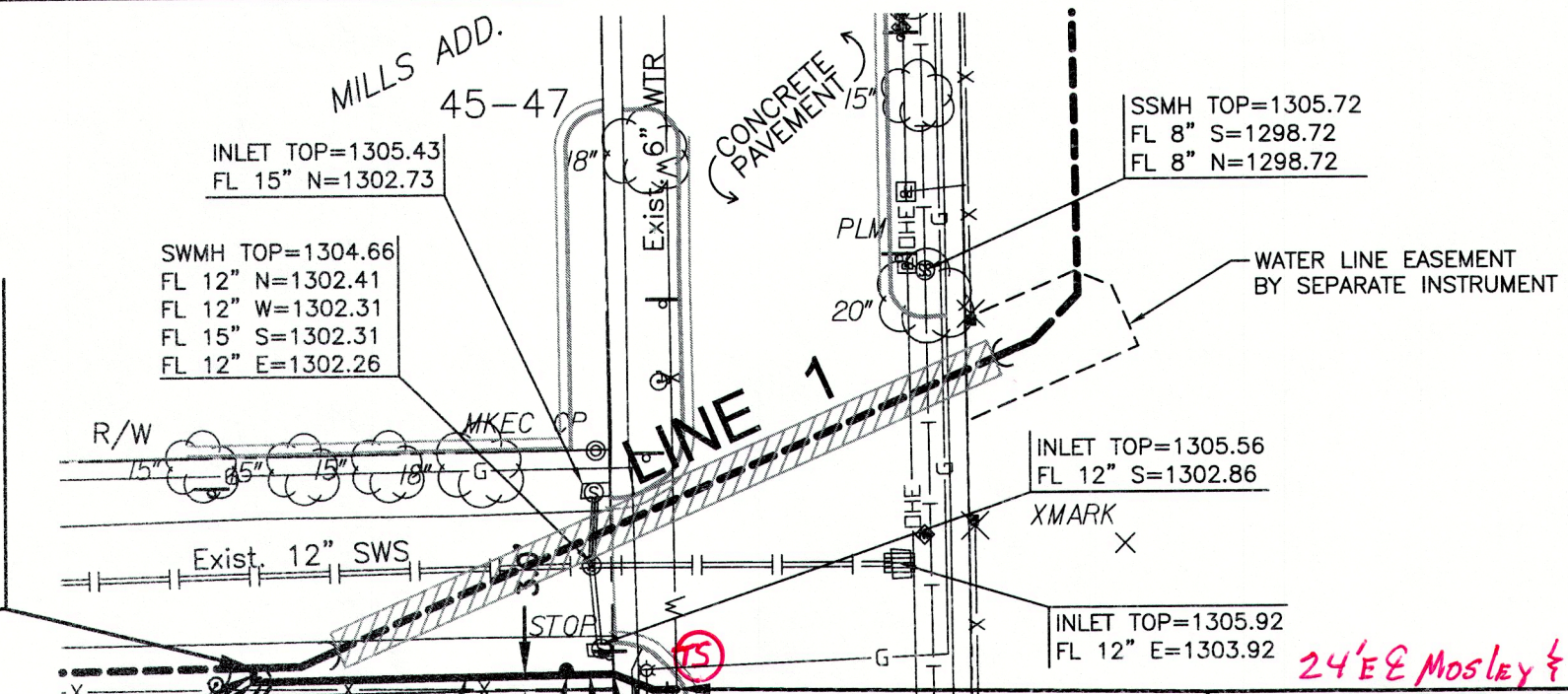
STA. 25+97.03, LINE 1 =  
STA. 10+00.00, LINE 2  
N=1694389.07, E=1651516.85



STA. 10+08.17, LINE 2  
1-12" DIMJ 90° VERTICAL BEND  
INSTALL 6.26' OF 12" DICL PIPE VERTICAL  
COORDINATE CONNECTION WITH SUMMIT  
FIRE PUMP ROOM PLANS.  
N=1694391.51, E=1651511.15

McDonald, Tapping Sleeve, 117' E Mosley & 20' N E 14th, 92' E of E Line  
Mueller, Tapping Valve, 117' E Mosley & 21' N E 14th, 92' E of E Curb Line

STA. 10+00.00, LINE 3 =  
STA. 22+54.98, LINE 1  
1-20"x2" TAPPING SLEEVE AND VALVE TO  
BE FURNISHED & INSTALLED BY C.O.W.  
WATER DEPARTMENT  
CONTRACTOR SHALL REIMBURSE C.O.W.  
VALVE BOX ELEV.=1307.47  
N=1694537.38, E=1651769.51



STA. 10+03.00, LINE 3  
1-2" DIMJ 90° BEND INSTALLED  
@ 45° ANGLE  
N=1694540.38, E=1651769.50

STA. 10+06.81, LINE 3  
1-2" DIMJ 45° BEND (VERTICAL)  
N=1694540.32, E=1651765.70

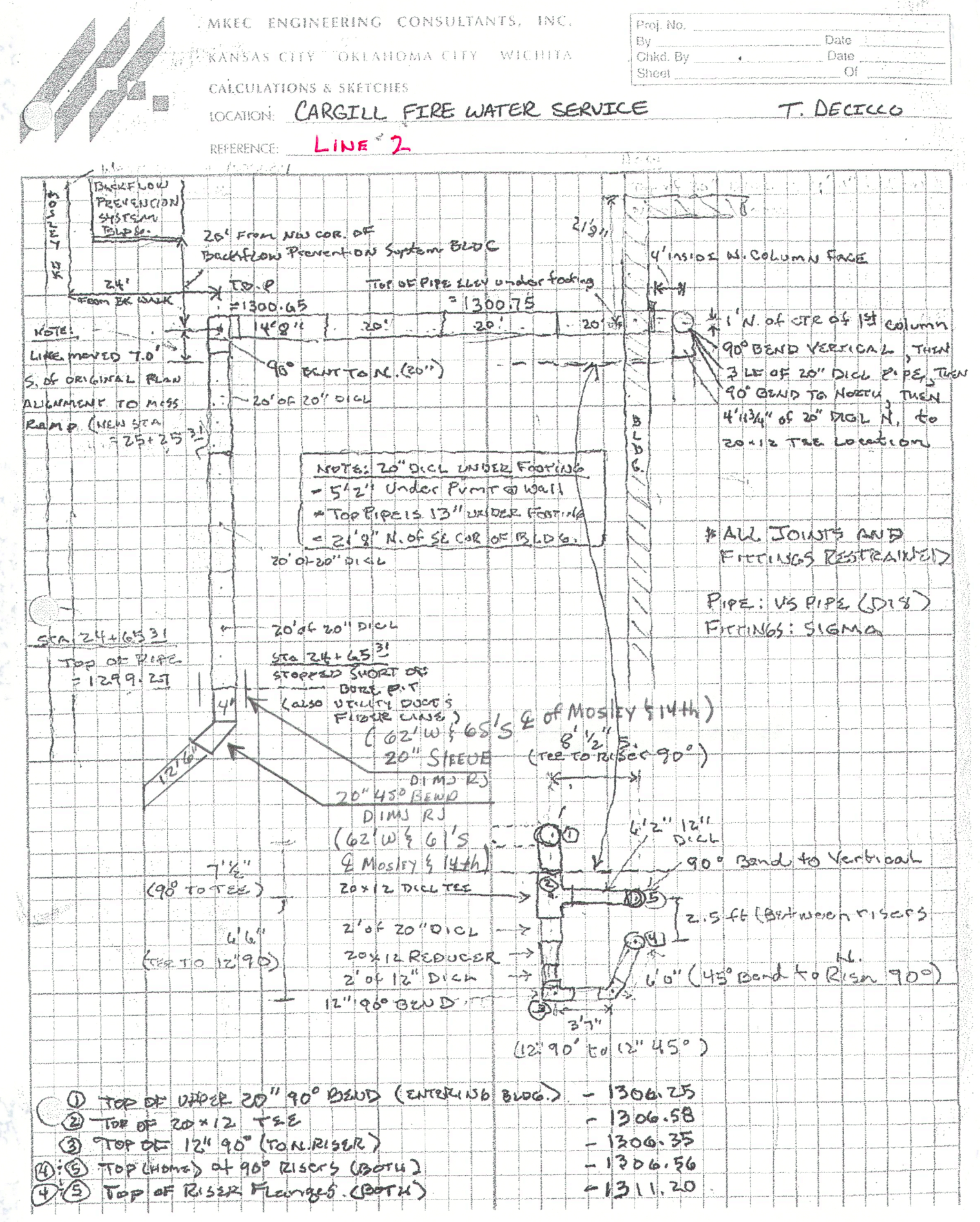
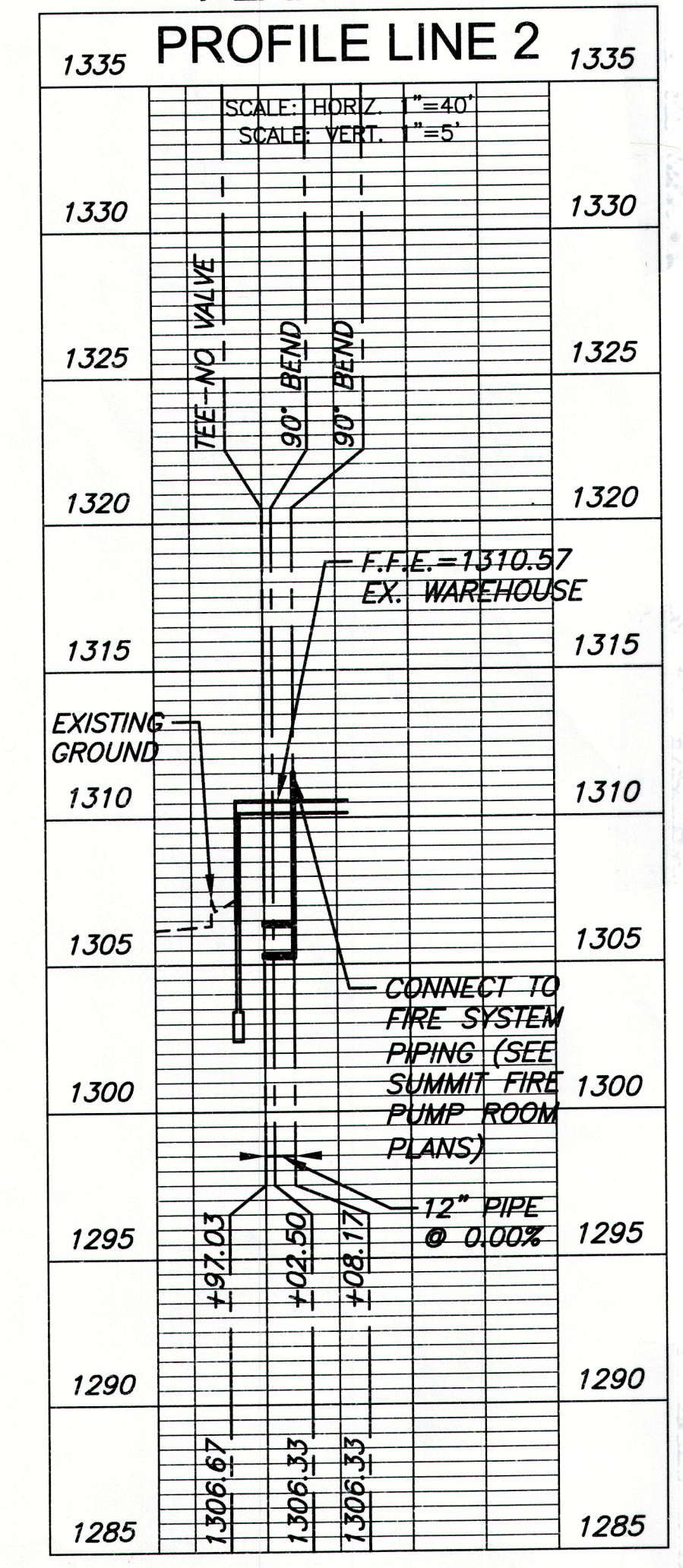
STA. 10+69.29, LINE 3  
1-1" SERVICE TAP AND METER CAN  
FOR SAMPLING PURPOSES ONLY  
METER BOX ELEV.=1306.00  
N=1694539.37, E=1651703.22

STA. 10+93.35, LINE 3  
8" x 2" TAPPING SLEEVE AND VALVE TO  
BE FURNISHED & INSTALLED BY C.O.W.  
WATER DEPARTMENT SHALL REIMBURSE C.O.W.  
CONTRACTOR SHALL REIMBURSE C.O.W.  
VALVE BOX ELEV.=1305.41  
N=1694542.55, E=1651679.81

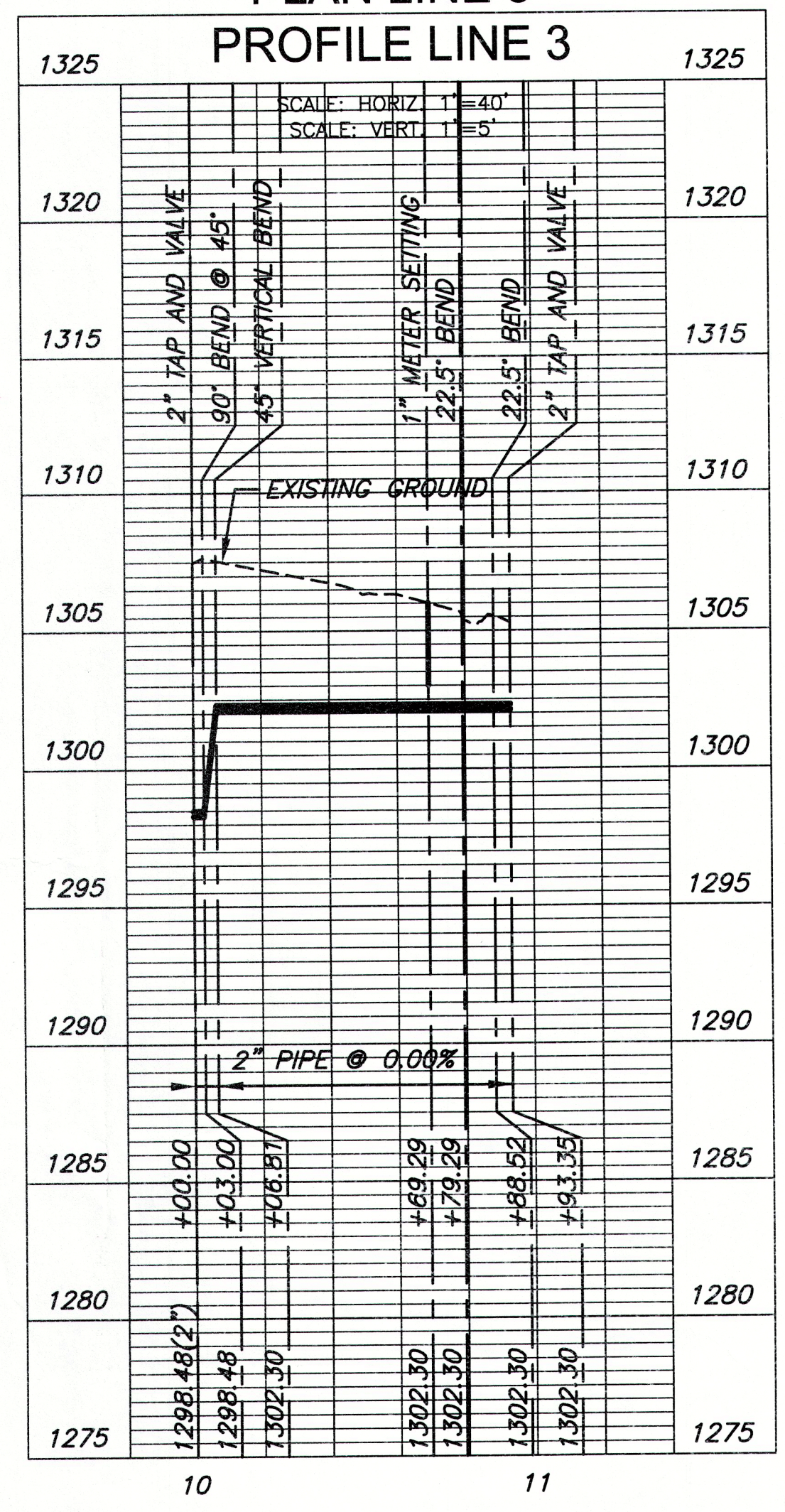
STA. 10+88.52, LINE 3  
1-2" 22.5" BEND - Sigma, 31' E Mosley & 28' N E 14th, 10' E of W Curb Line  
N=1694542.63, E=1651684.64

STA. 10+79.29, LINE 3  
1-2" 22.5" BEND - Sigma, 37' E Mosley & 24' N E 14th, 16' E of W Curb Line  
N=1694539.22, E=1651693.22

PLAN LINE 2



PLAN LINE 3



NOTE:  
CONTRACTOR TO VERIFY  
LOCATION AND ELEVATION OF  
EXIST. 6" WATER LINE PRIOR  
TO CONSTRUCTION.

TESTING NOTE:  
THE NEW 20" MAIN SHALL  
MEET CITY OF WICHITA  
SPECIFICATIONS FOR TESTING,  
EXCEPT THE PRIVATE PORTION  
MUST BE PRESSURE TESTED  
AT 200 PSI INSTEAD OF THE  
TYPICAL 150 PSI.



WATER DISTRIBUTION PLANS FOR  
**CARGILL FIRE WATER SERVICE**  
 WICHITA, KANSAS

PROJECT NO.		1978PPW
DATE		MAR. 2016
SCALE		1"=40'
DESIGNED	DRAWN	CHECKED
SLF	SLF	MAB
ISSUED FOR BID		07-22-16
NO.	REVISION	DATE
SHEET NO.		
7 OF 19		