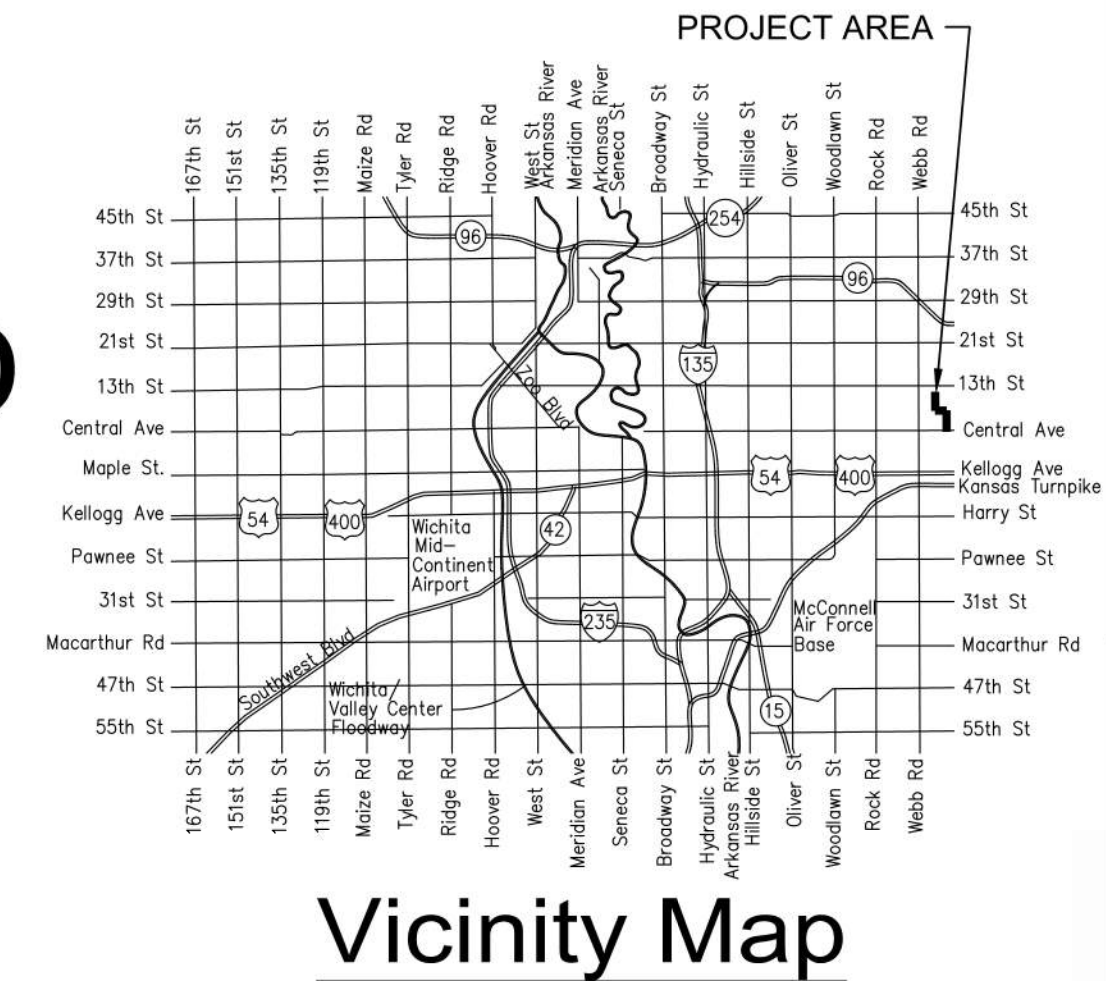


GENERAL NOTES

- 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 1-800-246-8464
BLACK HILLS ENERGY 1-800-694-8989
CITY OF WICHITA WATER & SEWER 1-316-219-8921
CITY OF WICHITA STORMWATER 1-316-268-4090
CITY OF WICHITA TRAFFIC 1-316-268-4034
COX COMMUNICATIONS 1-888-249-3530
KANSAS GAS SERVICE 1-888-482-4950
EVERGY 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 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 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.
- 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.
- 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.
- 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 FINAL GRADES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND DAWNITA REINHARDT 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, MIKE ARMOUR AT TRAFFIC@WICHITA.GOV BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTORS RESPONSIBILITY.
- 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 THE CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.
- 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.
- CITY MAINTENANCE OF WATER MAINS ENDS AT RIGHT-OF-WAY OR EASEMENT LINE OR WITHIN TWO FEET OF VAULT.
- OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTION SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- 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.
- AS REQUIRED, THE CONTRACTOR SHALL INSTALL A TEMPORARY BLOW OFF AND/OR TEMPORARY CONNECTION TO THE EXISTING WATERLINE/SYSTEM PER AWWA C651 RECOMMENDATIONS TO FILL AND TEST THE NEW WATERLINE. AT THE CONTRACTOR'S OPTION, THE CONTRACTOR CAN INSTALL A TEMPORARY MAINLINE VALVE AT THE POINT OF CONNECTION. FOLLOWING ACCEPTANCE OF THE NEW WATERLINE, THE TEMPORARY CONNECTION/VALVE SHALL BE FULLY REMOVED AND THE FINAL CONNECTION TO THE EXISTING WATERLINE SHALL BE CONSTRUCTED. WATERLINE MATERIALS AT TIE-INS SHALL BE CONSTRUCTED WITH CLEAN, SWABBED PIPE AND FLUSHED UPON COMPLETION OF TIE-INS. ALL COSTS FOR TEMPORARY CONNECTIONS SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.
- 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 FITTINGS.
- 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 ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-291-8921.
- ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE CONTRACTOR WILL REIMBURSE THE CITY FOR TAPPING FEES PRIOR TO TAP BEING MADE. UNLESS NOTED ON PLANS.
- 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.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- ANDOVER FIRE DEPARTMENT INSPECTIONS MAY BE SCHEDULED BY CALLING 316-733-2367.
- ALL APPROVED EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE STOCKPILED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER. STOCKPILE LOCATIONS SHALL BE AS DIRECTED BY THE OWNER AND IN ACCORDANCE WITH GENERAL NOTE NO. 4 ABOVE.
- ALL LAWN/TURF AREAS DISTURBED BY CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE RESTORED WITH THE SAME GRASS/SOD AS EXISTING. RESTORATION OF DISTURBED AREAS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOP SOIL PREPARATION, SEEDING, MULCH, AND/OR RESEEDING. ALL SEEDING/SODDING WORK SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD SPECIFICATIONS AND THE CITY OF WICHITA ADMINISTRATIVE REGULATION NO. AR6.5 WHICH GOVERNS CLEANUP AND RESTORATION OR REPLACEMENT FOLLOWING CONSTRUCTION.
- CONTRACTOR SHALL SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH TEMPORARY RYE GRASS. RYE GRASS SEED SHALL BE PLANTED AT A MINIMUM RATE OF SIX (6) POUNDS PER ONE THOUSAND (1,000) SQUARE FEET. THIS TEMPORARY SEEDING MAY BE OMITTED ONLY IF OTHER SEEDING IS REQUIRED IN ACCORDANCE WITH GENERAL NOTE NO. 31 ABOVE. TEMPORARY SEEDING OR PERMANENT SEEDING/SODDING SHALL BE APPLIED WITHIN 14 DAYS AFTER THE AREA HAS BEEN DISTURBED.
- EACH BIDDER SHALL VISIT THE SITE OF THE PROJECT BEFORE SUBMITTING THE PROPOSAL FOR THIS WORK SO THAT HE WILL BE FULLY INFORMED OF THE EXISTING FIELD CONDITIONS AND THE OBSTACLES WHICH MIGHT BE ENCOUNTERED. UPON AWARD OF THE CONTRACT THE CONTRACTOR WILL NOT BE GRANTED ANY ADDITIONAL COMPENSATION WITH REGARDS TO TIME AND MONEY FOR CONDITIONS THAT MAY HAVE BEEN EVALUATED DURING ANY INSPECTION OF THE SITE.
- THE CONTRACTOR SHALL INSTALL AND/OR MAINTAIN EROSION CONTROL METHODS AS SPECIFIED. THE GENERAL LOCATION OF THE REQUIRED EROSION CONTROL IS ILLUSTRATED ON THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL SHOWN THROUGH THE COMPLETION OF THIS PROJECT. INSTALLATION OF THESE BMP'S DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ABATING SOIL EROSION.
- THE WATERLINE PIPE LENGTHS REPRESENT TRUE PIPE LENGTHS AND DO NOT INCLUDE FITTINGS/APPURTENANCES. THE PIPE LENGTHS DO NOT DIRECTLY CORRESPOND WITH ALIGNMENT STATIONING. THE COST OF FITTINGS IS CONSIDERED SUBSIDIARY TO PIPE.
- 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 SEPARATIONS DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAIN 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.
- MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MAINS AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCE MAINS AND SERVICES) AT CROSSINGS. WATERLINES MUST ALWAYS BE PLACED ABOVE PRESSURIZED SANITARY SEWER LINES WHERE THEY CROSS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.

WATER DISTRIBUTION SYSTEM ALONG YORKTOWN PARKWAY AND COMMERCE STREET 715 E. 13TH STREET, ANDOVER, KANSAS

PAUL GUNZELMAN, P.E. WICHITA CITY ENGINEER
PROJECT NUMBER 2024-029657 PPW (54030980)



SHEET INDEX

SHEET NO. C-001	TITLE SHEET
SHEET NO. C-002-C-003	KEY MAP AND BUBBLE MAP
SHEET NO. CU101-CU103	WATERLINE NO. 1
SHEET NO. CU104-CU118	WATERLINE NO. 2
SHEET NO. CU118-CU119	WATERLINE NO. 3
SHEET NO. CU120	WATERLINE NO. 4
SHEET NO. CU501-CU503	WATERLINE DETAILS
SHEET NO. CU505	EROSION CONTROL PLAN
SHEET NO. CU506-CU510	EROSION CONTROL DETAILS

REPLACEMENT SHEETS:
C-003R WATERLINE KEY MAP SOUTH
CU107R WATERLINE NO. 2
CU110R WATERLINE NO. 2
CU118R WATERLINE NO. 3
CU119R WATERLINE NO. 3

SEE KEY MAP FOR BENCHMARKS,
CONTROL POINTS, AND PROPERTY CORNERS.

Inspector	PEC	Owen Zimmerman
	PEC - Closeout	Angel Cortez & Clinton Rogers
WL Contractor (sub)	McCullough Excavation - PM	Rob Gray
	McCullough Excavation - Superintendent	Miguel Bailon
Client	City of Andover	Les Mangus

Clarification: All 12" Valve Assemblies shall be Butterfly Valves per City of Wichita Standard Specifications.

BASE BID - Commerce Waterline (Part A)			
ITEM	MANUFACTURER	QUANTITY	UNIT
12" Pipe	SANDERSON PIPE	207	LF
12" DI CL Pipe	McWANE DUCTILE	11	LF
12" Valve Assembly	M&H VALVE COMPANY	1	LF

BASE BID - Yorktown Waterline (Part B)			
ITEM	MANUFACTURER	QUANTITY	UNIT
12" Pipe	SANDERSON PIPE	787	LF
12" DI CL Pipe	McWANE DUCTILE	6	LF
12" RJ Pipe	SANDERSON PIPE	154	LF
12" DI CL RJ Pipe	McWANE DUCTILE	19	LF
PVC Casing Pipe (22" Min ID)	SANDERSON PIPE	70	LF
12" Valve Assembly	M&H VALVE COMPANY	1	LF
Fire Hydrant Assembly	CLOW	2	EA

BASE BID - Yorktown Waterline (Part C)			
ITEM	MANUFACTURER	QUANTITY	UNIT
12" Pipe	SANDERSON PIPE	5,239	LF
12" DI CL Pipe	McWANE DUCTILE	13	LF
12" Pipe by Directional Drill	SANDERSON PIPE	72	LF
8" Pipe	SANDERSON PIPE	868	LF
8" DI CL Pipe	McWANE DUCTILE	23	LF
12" Valve Assembly	M&H VALVE COMPANY	7	EA
8" Valve Assembly	M&H VALVE COMPANY	2	EA
12"x12" Tapping Sleeve, Valve, and Valve Box	COW	1	EA
Fire Hydrant Assembly	CLOW	13	EA
2" Blowoff Valve Assembly	CLOW	2	EA

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

Engineering Shawn Mellies 1/30/25
Utilities Greg Lolley 1/30/25
Fire Dept. Mike Roosevelt 1/30/25

NOTE TO CONTRACTORS

Public Property:
Inspection and testing for the waterline is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection is to be in accordance with the City of Wichita standard construction engineering practices and certified by a Professional Engineer Licensed in the state of Kansas. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by City Engineering. All Construction and Materials shall comply with the City 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 Andover licensed fire protection contractor in accordance with the fire codes as adopted by the City of Andover. All material and construction practices for the fire protection line shall comply with the fire codes as adopted by the City of Andover (available from the City of Wichita Fire Department). The Contractor shall not commence work without notification and approval of the Andover Fire Department. Inspection of the fire protection line is to be provided by a licensed Engineering Firm under contract with the Owner/Developer and the Fire Department. The contractor shall not start work until the project inspector is assigned to the project and present on the site. Any work done without inspection will be required to be uncovered for inspection.

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

RED LINE - FIELD SET 04/13/2026 - cjr

Prepared By: CLINTON ROGERS & ANGEL CORTEZ

Date: May 2026



PROFESSIONAL ENGINEERING CONSULTANTS
303 SOUTH TOPEKA
WICHITA, KS 67202
316-262-2691 www.pec1.com



WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS

PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	
	RED LINE - FIELD SET
	U:\Wichita-Civil\2020\207083\02\Inspect

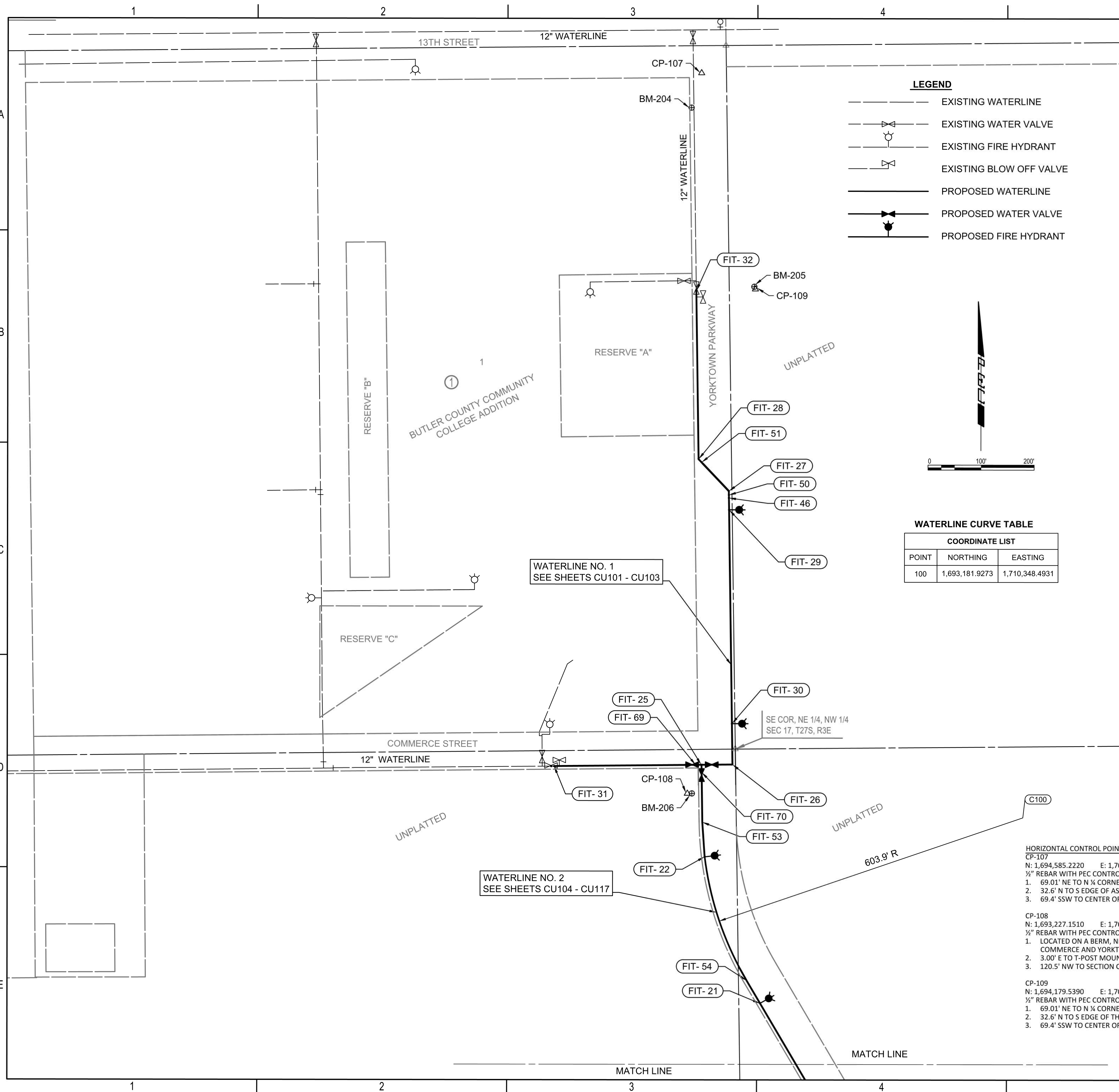
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE TITLE SHEET

C-001

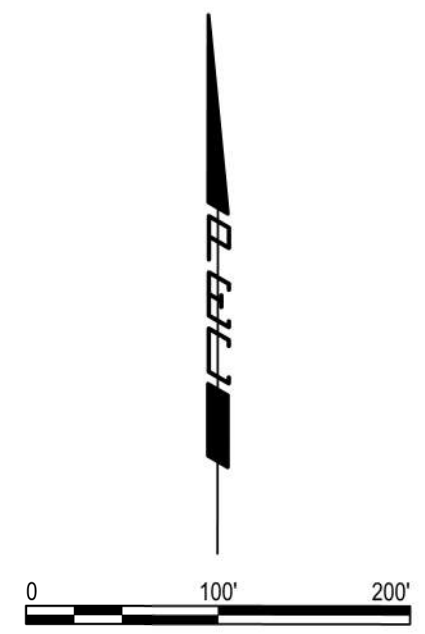
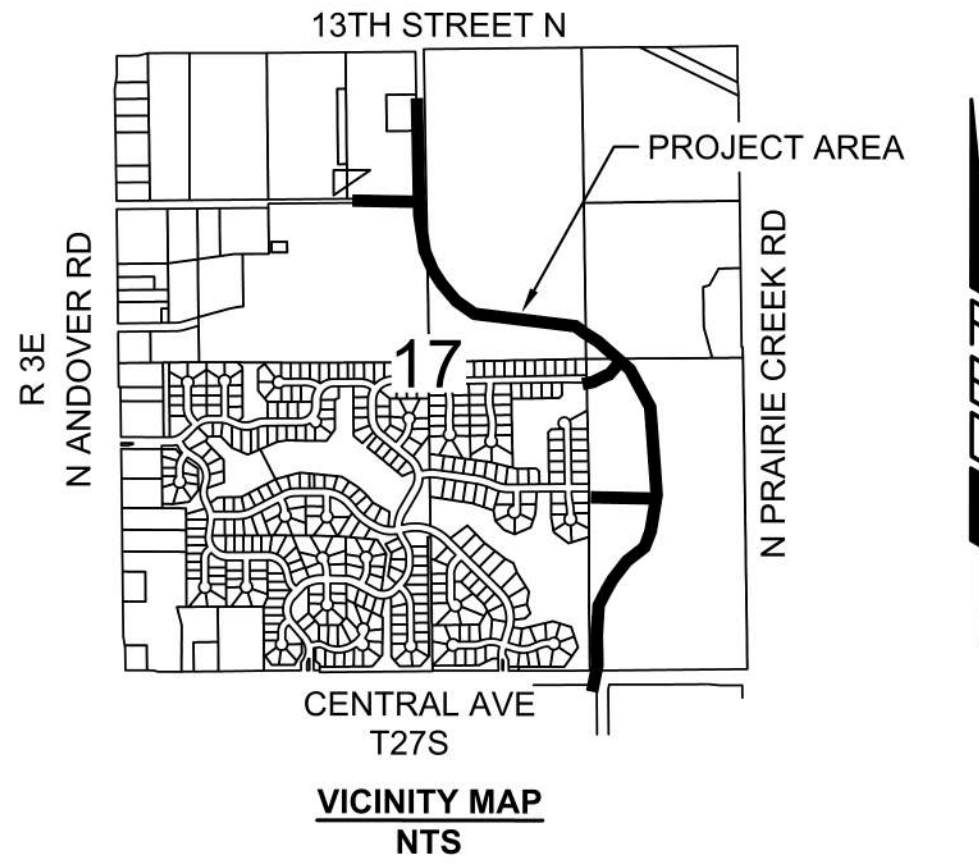
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LEGEND

- EXISTING WATERLINE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING BLOW OFF VALVE
- PROPOSED WATERLINE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT



WATERLINE CURVE TABLE

COORDINATE LIST

POINT	NORTHING	EASTING
100	1,693,181.9273	1,710,348.4931

FITTING TABLE

ID	STATION	COORDINATES	DESCRIPTION
FIT-31	WL NO. 1, 10+00.00	N: 1,693,278.5458 E: 1,709,465.2089	EXISTING 12" WL *
FIT-69	WL NO. 1, 12+66.67	N: 1,693,281.2654 E: 1,709,731.8632	12" LINE VALVE
FIT-25	WL NO. 1, 12+77.87	N: 1,693,281.2325 E: 1,709,743.0701	12" X 12" TEE
FIT-26	WL NO. 1, 13+36.11	N: 1,693,281.7955 E: 1,709,801.3008	12" 90° BEND
FIT-30	WL NO. 1, 14+13.12	N: 1,693,358.8046 E: 1,709,800.1909	FIRE HYDRANT ASSEMBLY
FIT-29	WL NO. 1, 18+16.11	N: 1,693,761.7453 E: 1,709,794.3559	FIRE HYDRANT ASSEMBLY
FIT-46	WL NO. 1, 18+38.45	N: 1,693,784.0841 E: 1,709,793.9909	12" 45° RJ BEND
FIT-50	WL NO. 1, 18+44.00	N: 1,693,789.6306 E: 1,709,793.8983	12" 45° RJ BEND
FIT-27	WL NO. 1, 18+51.44	N: 1,693,797.0785 E: 1,709,793.8442	12" 45° RJ BEND
FIT-51	WL NO. 1, 19+26.15	N: 1,693,851.2121 E: 1,709,742.3596	12" 11.25° RJ BEND
FIT-28	WL NO. 1, 19+34.38	N: 1,693,857.1682 E: 1,709,736.6846	12" 45° RJ BEND (ROTATED)
FIT-32	WL NO. 1, 22+51.65	N: 1,694,174.4036 E: 1,709,732.0843	EXISTING 12" WATERLINE *
FIT-21	WL NO. 2, 58+72.90	N: 1,692,831.8546 E: 1,709,853.8230	FIRE HYDRANT ASSEMBLY
FIT-54	WL NO. 2, 59+22.99	N: 1,692,875.0019 E: 1,709,828.3662	PC CURVE
FIT-22	WL NO. 2, 61+70.69	N: 1,693,107.8613 E: 1,709,749.1342	FIRE HYDRANT ASSEMBLY
FIT-53	WL NO. 2, 62+36.24	N: 1,693,173.2187 E: 1,709,744.6360	PT CURVE
FIT-70	WL NO. 2, 63+30.16	N: 1,693,267.1341 E: 1,709,743.2197	12" LINE VALVE

- HORIZONTAL CONTROL POINTS**
- CP-107
 N: 1,694,585.2220 E: 1,709,741.6480
 1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND
 1. 69.01' NE TO N 1/4 CORNER 17-27-3E
 2. 32.6' N TO S EDGE OF ASPHALT ROAD
 3. 69.4' SSW TO CENTER OF LIGHT POLE BASE
- CP-108
 N: 1,693,227.1510 E: 1,709,720.0570
 1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND
 1. LOCATED ON A BERM, NEAR THE TOP, NEAR THE INTERSECTION OF COMMERCE AND YORKTOWN
 2. 3.00' E TO T-POST MOUNTED FLUSH WITH GROUND
 3. 120.5' NW TO SECTION CORNER, NE 1/4 NW 1/4, 17-27-3E
- CP-109
 N: 1,694,179.5390 E: 1,709,841.4510
 1/2" REBAR WITH PEC CONTROL CAP SET FLUSH WITH GROUND
 1. 69.01' NE TO N 1/4 CORNER 17-27-3E
 2. 32.6' N TO S EDGE OF THE ASPHALT ROAD
 3. 69.4' SSW TO CENTER OF LIGHT POLE BASE

- BENCH MARKS**
- BM-204
 ELEV: 1,334.42 (NAVD 88)
 CHISELED SQUARE ON TOP OF A LIGHT POLE BASE IN NE CORNER OF THE SCHOOL PARKING LOT.
- BM-205
 ELEV: 1,326.90 (NAVD 88)
 T-POST MOUNTED FLUSH WITH GROUND, LOCATED SE OF PARKING LOT EAST OF THE SCHOOL IN A PASTURE, ±48' E OF HEDGEROW AND ±30' S OF STREAM THAT RUNS SSE
- BM-206
 ELEV: 1,347.40 (NAVD 88)
 T-POST MOUNTED FLUSH WITH GROUND, ON TOP OF THE BERM NEAR THE INTERSECTION OF COMMERCE ST. AND YORKTOWN ST., ±118' SW OF THE SECTION CORNER NE 1/4, NW 1/4, 17-27-3E

NOTE: WATERLINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER DEPARTMENT REPRESENTATIVE IS ON SITE.



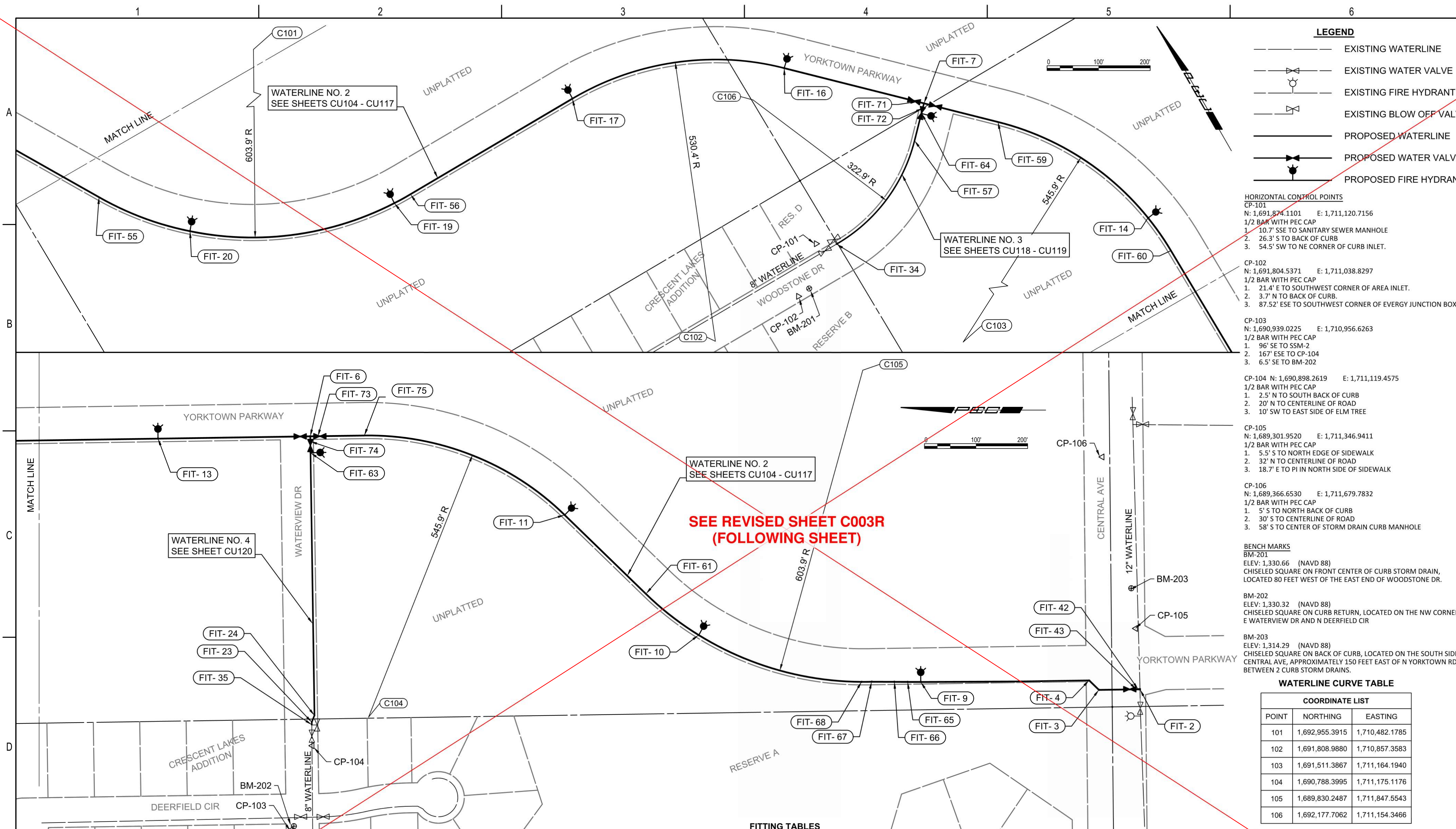
WATER DISTRIBUTION SYSTEM
 ALONG
**YORKTOWN PARKWAY AND
 COMMERCE STREET**
 ANDOVER, KANSAS
 PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	
	RED LINE - FIELD SET
	U:\Wichita-Civil\2020\207083\020\Inspect
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE KEY MAP NORTH

C-002

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LEGEND

- EXISTING WATERLINE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING BLOW OFF VALVE
- PROPOSED WATERLINE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT

HORIZONTAL CONTROL POINTS

- CP-101**
 N: 1,691,874.1101 E: 1,711,120.7156
 1/2 BAR WITH PEC CAP
 1. 10.7' SSE TO SANITARY SEWER MANHOLE
 2. 26.3' S TO BACK OF CURB
 3. 54.5' SW TO NE CORNER OF CURB INLET.
- CP-102**
 N: 1,691,804.5371 E: 1,711,038.8297
 1/2 BAR WITH PEC CAP
 1. 21.4' E TO SOUTHWEST CORNER OF AREA INLET.
 2. 3.7' N TO BACK OF CURB.
 3. 87.52' ESE TO SOUTHWEST CORNER OF EVERY JUNCTION BOX.
- CP-103**
 N: 1,690,939.0225 E: 1,710,956.6263
 1/2 BAR WITH PEC CAP
 1. 96' SE TO SSM-2
 2. 167' ESE TO CP-104
 3. 6.5' SE TO BM-202
- CP-104** N: 1,690,898.2619 E: 1,711,119.4575
 1/2 BAR WITH PEC CAP
 1. 2.5' N TO SOUTH BACK OF CURB
 2. 20' N TO CENTERLINE OF ROAD
 3. 10' SW TO EAST SIDE OF ELM TREE
- CP-105**
 N: 1,689,301.9520 E: 1,711,346.9411
 1/2 BAR WITH PEC CAP
 1. 5.5' S TO NORTH EDGE OF SIDEWALK
 2. 32' N TO CENTERLINE OF ROAD
 3. 18.7' E TO PI IN NORTH SIDE OF SIDEWALK
- CP-106**
 N: 1,689,366.6530 E: 1,711,679.7832
 1/2 BAR WITH PEC CAP
 1. 5' S TO NORTH BACK OF CURB
 2. 30' S TO CENTERLINE OF ROAD
 3. 58' S TO CENTER OF STORM DRAIN CURB MANHOLE
- BENCH MARKS**
BM-201
 ELEV: 1,330.66 (NAVD 88)
 CHISELED SQUARE ON FRONT CENTER OF CURB STORM DRAIN, LOCATED 80 FEET WEST OF THE EAST END OF WOODSTONE DR.
- BM-202**
 ELEV: 1,330.32 (NAVD 88)
 CHISELED SQUARE ON CURB RETURN, LOCATED ON THE NW CORNER OF E WATERVIEW DR AND N DEERFIELD CIR
- BM-203**
 ELEV: 1,314.29 (NAVD 88)
 CHISELED SQUARE ON BACK OF CURB, LOCATED ON THE SOUTH SIDE OF CENTRAL AVE, APPROXIMATELY 150 FEET EAST OF N YORKTOWN RD, BETWEEN 2 CURB STORM DRAINS.

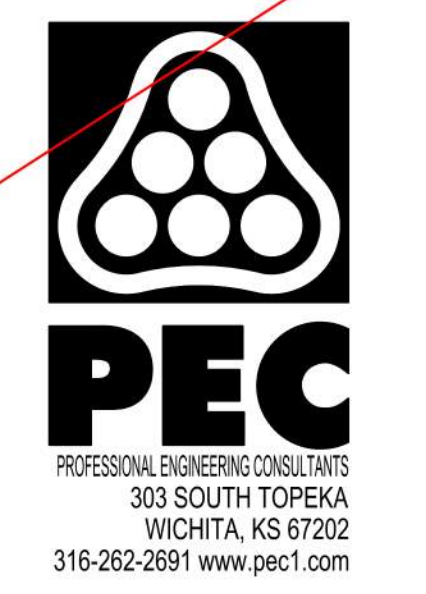
WATERLINE CURVE TABLE

COORDINATE LIST		
POINT	NORTHING	EASTING
101	1,692,955.3915	1,710,482.1785
102	1,691,808.9880	1,710,857.3583
103	1,691,511.3867	1,711,164.1940
104	1,690,788.3995	1,711,175.1176
105	1,689,830.2487	1,711,847.5543
106	1,692,177.7062	1,711,154.3466

FITTING TABLES

ID	STATION	COORDINATES	DESCRIPTION	ID	STATION	COORDINATES	DESCRIPTION	ID	STATION	COORDINATES	DESCRIPTION	ID	STATION	COORDINATES	DESCRIPTION	ID	STATION	COORDINATES	DESCRIPTION	
FIT-2	WL NO. 2, 10+00.00	N: 1,689,292.7917 E: 1,711,229.0919	12" X 12" TAPPING SLEEVE	FIT-66	WL NO. 2, 14+83.70	N: 1,689,769.0435 E: 1,711,243.4729	12" 11.25° RJ BEND (VERTICAL)	FIT-6	WL NO. 2, 27+63.13	N: 1,690,901.4996 E: 1,711,719.3487	12" X 8" TEE	FIT-17	WL NO. 2, 46+63.18	N: 1,692,354.9009 E: 1,710,852.2085	FIRE HYDRANT ASSEMBLY	FIT-63	WL NO. 3, 15+28.11	N: 1,690,901.0193 E: 1,711,687.6601	FIRE HYDRANT ASSEMBLY	
FIT-42	WL NO. 2, 10+03.18	N: 1,689,295.9670 E: 1,711,229.0439	12" 45° RJ BEND (VERTICAL)	FIT-67	WL NO. 2, 15+27.48	N: 1,689,812.8229 E: 1,711,243.6591	12" 11.25° RJ BEND (VERTICAL)	FIT-13	WL NO. 2, 30+58.30	N: 1,691,196.6315 E: 1,711,714.8849	FIRE HYDRANT ASSEMBLY	FIT-56	WL NO. 2, 50+27.55	N: 1,692,351.4636 E: 1,710,487.8613	PC CURVE	FIT-74	WL NO. 3, 15+49.99	N: 1,690,901.3227 E: 1,711,709.5411	8" LINE VALVE	
FIT-43	WL NO. 2, 10+06.97	N: 1,689,299.7598 E: 1,711,228.9865	12" 45° RJ BEND (VERTICAL)	FIT-68	WL NO. 2, 15+47.29	N: 1,689,832.6353 E: 1,711,243.4529	12" 11.25° RJ BEND (VERTICAL)	FIT-60	WL NO. 2, 33+81.32	N: 1,691,519.6149 E: 1,711,710.0039	PC CURVE	FIT-19	WL NO. 2, 50+63.20	N: 1,692,352.1764 E: 1,710,487.8613	FIRE HYDRANT ASSEMBLY	FIT-34	WL NO. 4, 10+00.00	N: 1,691,854.7364 E: 1,711,154.9930	EXISTING 8" WATERLINE *	
FIT-3	WL NO. 2, 10+79.60	N: 1,689,372.3874 E: 1,711,227.8880	12" 45° BEND	FIT-10	WL NO. 2, 18+79.79	N: 1,690,148.2347 E: 1,711,334.1197	FIRE HYDRANT ASSEMBLY	FIT-14	WL NO. 2, 34+58.52	N: 1,691,596.4655 E: 1,711,703.3909	FIRE HYDRANT ASSEMBLY	FIT-20	WL NO. 2, 54+70.90	N: 1,692,503.1960 E: 1,710,081.8220	FIRE HYDRANT ASSEMBLY	FIT-57	WL NO. 4, 12+57.89	N: 1,691,952.8165 E: 1,711,386.1435	PT CURVE	
FIT-4	WL NO. 2, 11+05.90	N: 1,689,391.2571 E: 1,711,246.1954	12" 45° BEND	FIT-61	WL NO. 2, 20+10.10	N: 1,690,250.7839 E: 1,711,414.1026	PT CURVE	FIT-59	WL NO. 2, 38+10.12	N: 1,691,903.2052 E: 1,711,544.2597	PT CURVE	FIT-55	WL NO. 2, 56+59.98	N: 1,692,648.4806 E: 1,709,962.0180	PT CURVE	FIT-64	WL NO. 4, 13+12.95	N: 1,691,992.3354 E: 1,711,424.4840	FIRE HYDRANT ASSEMBLY	
FIT-9	WL NO. 2, 14+32.55	N: 1,689,717.8936 E: 1,711,243.2553	FIRE HYDRANT ASSEMBLY	FIT-11	WL NO. 2, 22+29.49	N: 1,690,408.2504 E: 1,711,566.8711	FIRE HYDRANT ASSEMBLY	FIT-7	WL NO. 2, 39+58.15	N: 1,692,006.2831 E: 1,711,438.0158	12" X 8" TEE	FIT-35	WL NO. 3, 10+00.00	N: 1,690,898.4820 E: 1,711,160.6223	EXISTING 8" WATERLINE *	FIT-72	WL NO. 4, 13+22.42	N: 1,691,999.1525 E: 1,711,431.0558	8" LINE VALVE	
FIT-65	WL NO. 2, 14+57.99	N: 1,689,743.3297 E: 1,711,243.3635	12" 11.25° RJ BEND (VERTICAL)	FIT-75	WL NO. 2, 26+58.30	N: 1,690,796.6773 E: 1,711,720.9382	PT CURVE	FIT-71	WL NO. 2, 39+71.96	N: 1,692,015.8494 E: 1,711,428.0642	12" LINE VALVE	FIT-23	WL NO. 3, 10+05.00	N: 1,690,898.5259 E: 1,711,165.6221	8" 22.5° BEND					
				FIT-73	WL NO. 2, 27+48.17	N: 1,690,886.5418 E: 1,711,719.5631	12" LINE VALVE	FIT-16	WL NO. 2, 42+37.52	N: 1,692,200.8151 E: 1,711,237.5089	FIRE HYDRANT ASSEMBLY	FIT-24	WL NO. 3, 10+18.94	N: 1,690,893.3033 E: 1,711,178.5513	8" 22.5° BEND					

NOTE: WATERLINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER DEPARTMENT REPRESENTATIVE IS ON SITE.



WATER DISTRIBUTION SYSTEM
 ALONG
**YORKTOWN PARKWAY AND
 COMMERCE STREET**
 ANDOVER, KANSAS
 PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	
	RED LINE - FIELD SET
	U:\Wichita-Civil\2020\207083\020\Inspect
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK
WATERLINE KEY MAP SOUTH	
C-003	

NOTE:
WATERLINE VALVES TO BE OPERATED BY CONTRACTOR ONLY IF WATER DEPARTMENT REPRESENTATIVE IS ON SITE.

LEGEND

- EXISTING WATERLINE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING BLOW OFF VALVE
- PROPOSED WATERLINE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT

HORIZONTAL CONTROL POINTS

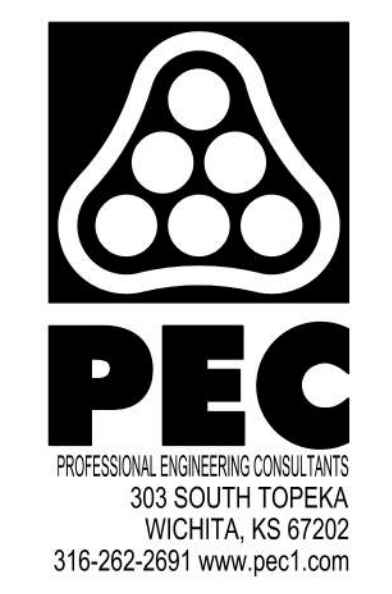
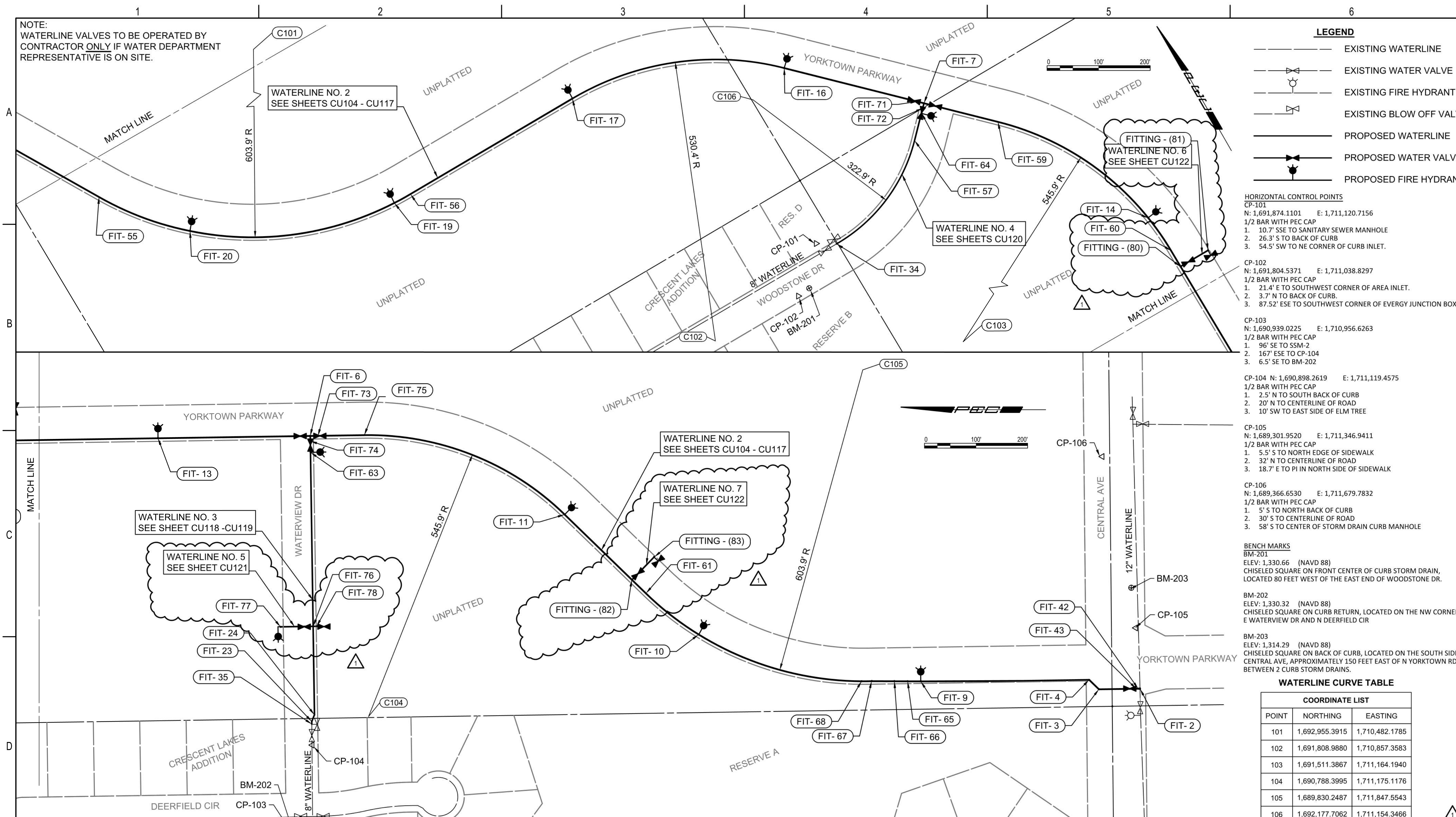
- CP-101
N: 1,691,874.1101 E: 1,711,120.7156
1/2 BAR WITH PEC CAP
1. 10.7' SSE TO SANITARY SEWER MANHOLE
2. 26.3' S TO BACK OF CURB
3. 54.5' SW TO NE CORNER OF CURB INLET.
- CP-102
N: 1,691,804.5371 E: 1,711,038.8297
1/2 BAR WITH PEC CAP
1. 21.4' E TO SOUTHWEST CORNER OF AREA INLET.
2. 3.7' N TO BACK OF CURB.
3. 87.52' ESE TO SOUTHWEST CORNER OF EVERY JUNCTION BOX.
- CP-103
N: 1,690,939.0225 E: 1,710,956.6263
1/2 BAR WITH PEC CAP
1. 96' SE TO SSM-2
2. 167' ESE TO CP-104
3. 6.5' SE TO BM-202
- CP-104 N: 1,690,898.2619 E: 1,711,119.4575
1/2 BAR WITH PEC CAP
1. 2.5' N TO SOUTH BACK OF CURB
2. 20' N TO CENTERLINE OF ROAD
3. 10' SW TO EAST SIDE OF ELM TREE
- CP-105
N: 1,689,301.9520 E: 1,711,346.9411
1/2 BAR WITH PEC CAP
1. 5.5' S TO NORTH EDGE OF SIDEWALK
2. 32' N TO CENTERLINE OF ROAD
3. 18.7' E TO PI IN NORTH SIDE OF SIDEWALK
- CP-106
N: 1,689,366.6530 E: 1,711,679.7832
1/2 BAR WITH PEC CAP
1. 5' S TO NORTH BACK OF CURB
2. 30' S TO CENTERLINE OF ROAD
3. 58' S TO CENTER OF STORM DRAIN CURB MANHOLE

BENCH MARKS

- BM-201
ELEV: 1,330.66 (NAVD 88)
CHISELED SQUARE ON FRONT CENTER OF CURB STORM DRAIN, LOCATED 80 FEET WEST OF THE EAST END OF WOODSTONE DR.
- BM-202
ELEV: 1,330.32 (NAVD 88)
CHISELED SQUARE ON CURB RETURN, LOCATED ON THE NW CORNER OF E WATERVIEW DR AND N DEERFIELD CIR
- BM-203
ELEV: 1,314.29 (NAVD 88)
CHISELED SQUARE ON BACK OF CURB, LOCATED ON THE SOUTH SIDE OF CENTRAL AVE, APPROXIMATELY 150 FEET EAST OF N YORKTOWN RD, BETWEEN 2 CURB STORM DRAINS.

WATERLINE CURVE TABLE

COORDINATE LIST		
POINT	NORTHING	EASTING
101	1,692,955.3915	1,710,482.1785
102	1,691,808.9880	1,710,857.3583
103	1,691,511.3867	1,711,164.1940
104	1,690,788.3995	1,711,175.1176
105	1,689,830.2487	1,711,847.5543
106	1,692,177.7062	1,711,154.3466



WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS
 GARY JANZEN, P.E. WICHITA CITY ENGINEER
 PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:		
REVISION		6/03/25
RED LINE - FIELD SET		
U:\Wichita-Civil\2020\207083\020\Inspec		

JOB NO.	207083-020
DATE	OCTOBER 2024
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

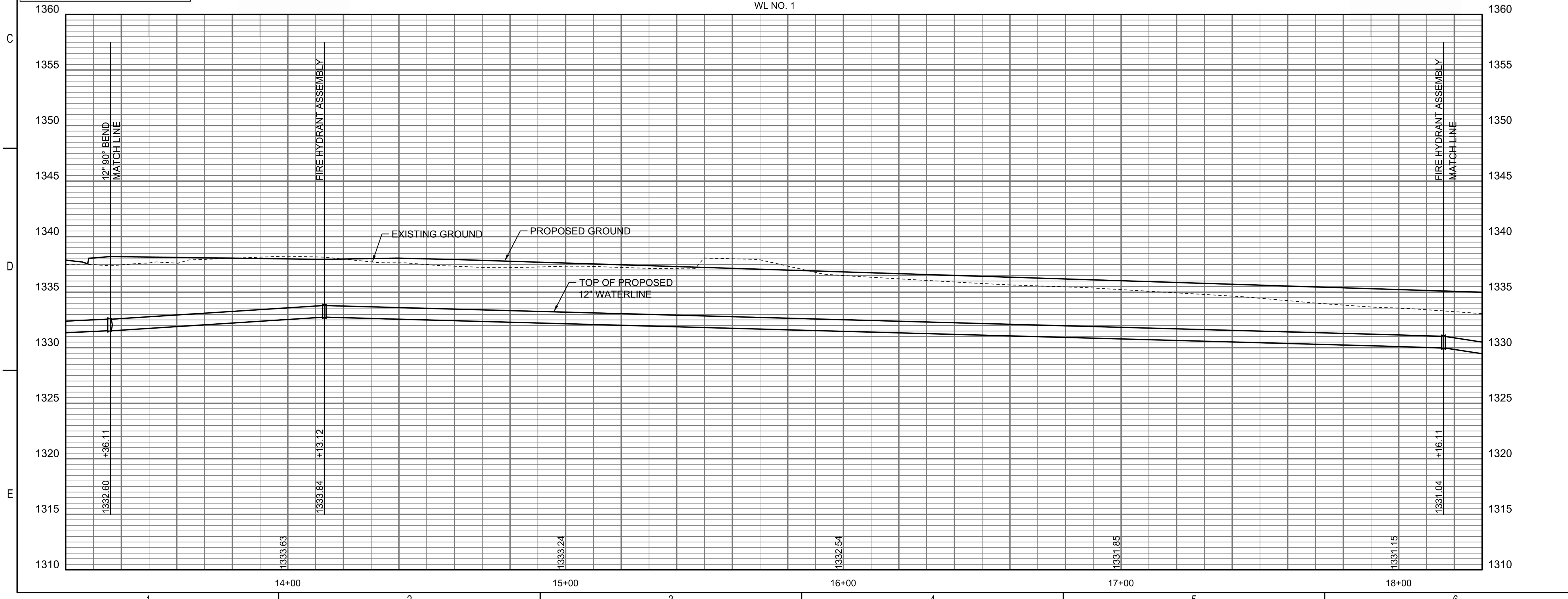
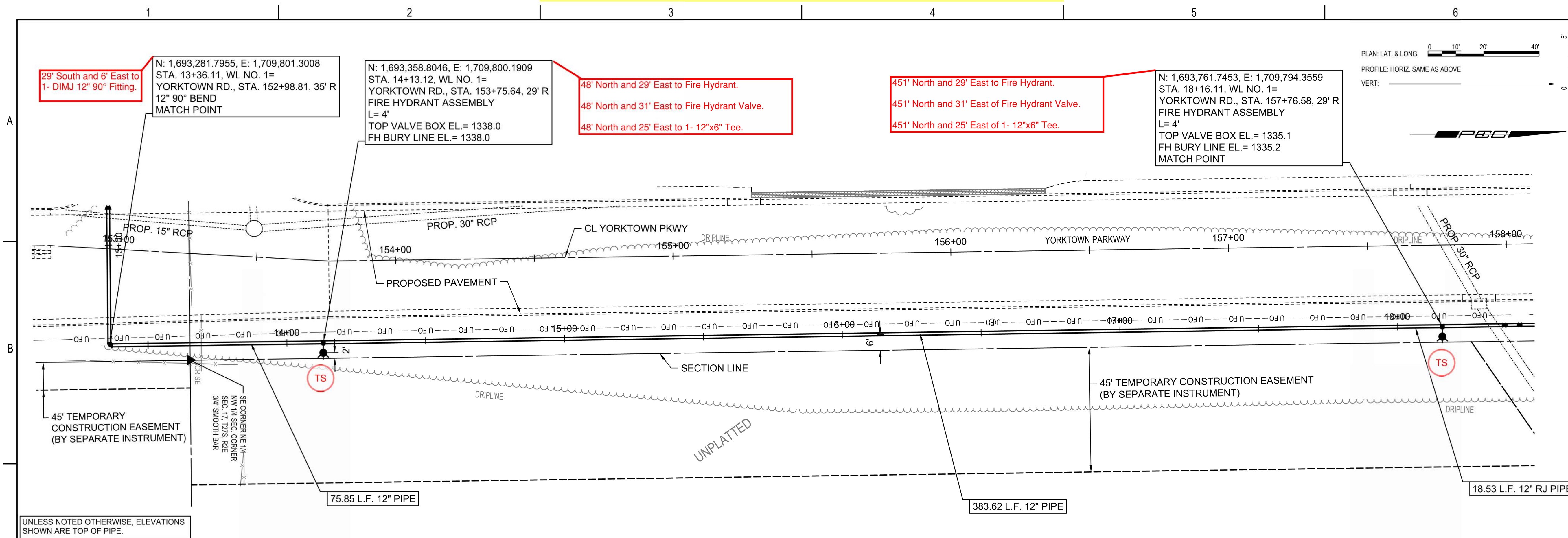
WATERLINE KEY MAP SOUTH

C-003 R

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ID	STATION	COORDINATES	DESCRIPTION	ID	STATION	COORDINATES	DESCRIPTION	ID	STATION	COORDINATES	DESCRIPTION	ID	STATION	COORDINATES	DESCRIPTION	ID	STATION	COORDINATES	DESCRIPTION
FIT-2	WL NO. 2, 10+00.00	N: 1,689,292.7917 E: 1,711,229.0919	12" X 12" TAPPING SLEEVE	FIT-67	WL NO. 2, 15+27.48	N: 1,689,812.8229 E: 1,711,243.6591	12" 11.25" RJ BEND (VERTICAL)	FIT-13	WL NO. 2, 30+58.30	N: 1,691,196.6315 E: 1,711,714.8849	FIRE HYDRANT ASSEMBLY	FIT-56	WL NO. 2, 50+27.55	N: 1,692,351.4636 E: 1,711,487.8613	PC CURVE	FIT-63	WL NO. 3, 15+28.11	N: 1,690,901.0193 E: 1,711,687.6601	FIRE HYDRANT ASSEMBLY
FIT-42	WL NO. 2, 10+03.18	N: 1,689,295.9670 E: 1,711,229.0439	12" 45° RJ BEND (VERTICAL)	FIT-68	WL NO. 2, 15+47.29	N: 1,689,832.6353 E: 1,711,243.4629	12" 11.25" RJ BEND (VERTICAL)	FIT-60	WL NO. 2, 33+81.32	N: 1,691,519.6149 E: 1,711,710.0039	PC CURVE	FIT-19	WL NO. 2, 50+63.20	N: 1,692,352.1764 E: 1,710,452.2178	FIRE HYDRANT ASSEMBLY	FIT-74	WL NO. 3, 15+49.99	N: 1,690,901.3227 E: 1,711,709.5411	8" LINE VALVE
FIT-43	WL NO. 2, 10+06.97	N: 1,689,299.7598 E: 1,711,227.8865	12" 45° RJ BEND (VERTICAL)	FIT-10	WL NO. 2, 20+10.10	N: 1,690,148.2347 E: 1,711,334.1197	FIRE HYDRANT ASSEMBLY	FIT-14	WL NO. 2, 34+58.52	N: 1,691,596.4655 E: 1,711,703.3909	FIRE HYDRANT ASSEMBLY	FIT-20	WL NO. 2, 54+70.90	N: 1,692,503.1960 E: 1,710,081.8220	FIRE HYDRANT ASSEMBLY	FIT-34	WL NO. 4, 10+00.00	N: 1,691,854.7364 E: 1,711,154.9930	EXISTING 8" WATERLINE *
FIT-3	WL NO. 2, 10+79.60	N: 1,689,372.3874 E: 1,711,227.8880	12" 45° BEND	FIT-61	WL NO. 2, 18+79.79	N: 1,690,250.7839 E: 1,711,414.1026	PT CURVE	FIT-59	WL NO. 2, 38+10.12	N: 1,691,903.2052 E: 1,711,544.2597	PT CURVE	FIT-55	WL NO. 2, 56+59.98	N: 1,692,648.4806 E: 1,709,962.0180	PT CURVE	FIT-57	WL NO. 4, 12+57.89	N: 1,691,952.8165 E: 1,711,386.1435	PT CURVE
FIT-4	WL NO. 2, 11+05.90	N: 1,689,391.2571 E: 1,711,246.1954	12" 45° BEND	FIT-11	WL NO. 2, 22+29.49	N: 1,690,408.2504 E: 1,711,566.8711	FIRE HYDRANT ASSEMBLY	FIT-7	WL NO. 2, 39+58.15	N: 1,692,006.2831 E: 1,711,438.0158	12" X 8" TEE	FIT-35	WL NO. 3, 10+00.00	N: 1,691,160.6223	EXISTING 8" WATERLINE *	FIT-64	WL NO. 4, 13+12.95	N: 1,691,992.3354 E: 1,711,424.4840	FIRE HYDRANT ASSEMBLY
FIT-9	WL NO. 2, 14+32.55	N: 1,689,717.8936 E: 1,711,243.2553	FIRE HYDRANT ASSEMBLY	FIT-75	WL NO. 2, 26+58.30	N: 1,690,796.6773 E: 1,711,720.9382	PT CURVE	FIT-71	WL NO. 2, 39+71.96	N: 1,692,015.8494 E: 1,711,428.6221	12" LINE VALVE	FIT-23	WL NO. 3, 10+05.00	N: 1,690,898.5259 E: 1,711,165.6221	8" 22.5° BEND	FIT-72	WL NO. 4, 13+22.42	N: 1,691,999.1525 E: 1,711,431.0558	8" LINE VALVE
FIT-65	WL NO. 2, 14+57.99	N: 1,689,743.3297 E: 1,711,243.3635	12" 11.25° RJ BEND (VERTICAL)	FIT-73	WL NO. 2, 27+48.17	N: 1,690,886.5418 E: 1,711,719.5631	12" LINE VALVE	FIT-16	WL NO. 2, 42+37.52	N: 1,692,200.8151 E: 1,711,237.5089	FIRE HYDRANT ASSEMBLY	FIT-24	WL NO. 3, 10+18.94	N: 1,690,893.3033 E: 1,711,178.5513	8" 22.5° BEND	FIT-78	WL NO. 5, 9+93.21	N: 1,690,889.1178 E: 1,711,350.1704	8" CAP
FIT-66	WL NO. 2, 14+83.70	N: 1,689,769.0435 E: 1,711,243.4729	12" 11.25° RJ BEND (VERTICAL)	FIT-6	WL NO. 2, 27+63.13	N: 1,690,901.4996 E: 1,711,719.3487	12" X 8" TEE	FIT-17	WL NO. 2, 46+63.18	N: 1,692,354.9009 E: 1,710,852.2085	FIRE HYDRANT ASSEMBLY	FIT-76	WL NO. 3, 11+90.48	N: 1,690,895.9028 E: 1,711,350.0674	8" X 8" CROSS	FIT-77	WL NO. 5, 10+62.99	N: 1,690,958.8881 E: 1,711,349.1128	FIRE HYDRANT ASSEMBLY

Reference Point Centerline of Commerce & Yorktown Parkway



PLAN: LAT. & LONG. 0 10' 20' 40'
 PROFILE: HORIZ. SAME AS ABOVE
 VERT: _____

29' South and 6' East to 1- DIMJ 12" 90° Fitting.
 N: 1,693,281.7955, E: 1,709,801.3008
 STA. 13+36.11, WL NO. 1=
 YORKTOWN RD., STA. 152+98.81, 35' R
 12" 90° BEND
 MATCH POINT

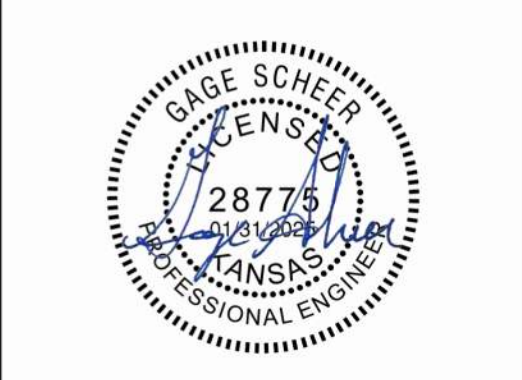
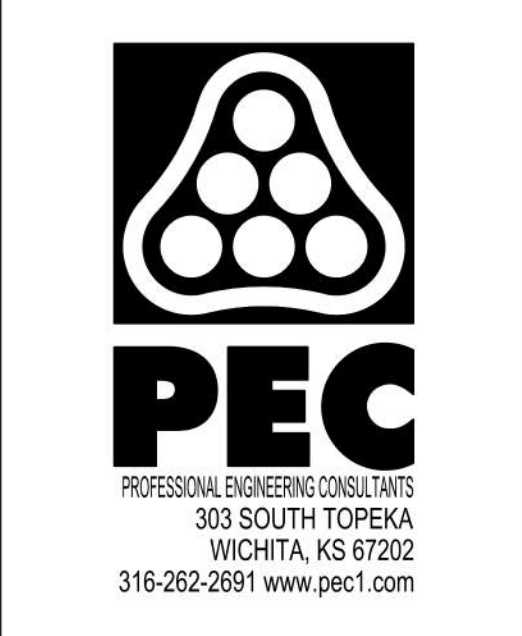
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 STA. 14+13.12, WL NO. 1=
 YORKTOWN RD., STA. 153+75.64, 29' R
 FIRE HYDRANT ASSEMBLY
 L= 4'
 TOP VALVE BOX EL.= 1338.0
 FH BURY LINE EL.= 1338.0

48' North and 29' East to Fire Hydrant.
 48' North and 31' East to Fire Hydrant Valve.
 48' North and 25' East to 1- 12"x6" Tee.

451' North and 29' East to Fire Hydrant.
 451' North and 31' East of Fire Hydrant Valve.
 451' North and 25' East of 1- 12"x6" Tee.

N: 1,693,761.7453, E: 1,709,794.3559
 STA. 18+16.11, WL NO. 1=
 YORKTOWN RD., STA. 157+76.58, 29' R
 FIRE HYDRANT ASSEMBLY
 L= 4'
 TOP VALVE BOX EL.= 1335.1
 FH BURY LINE EL.= 1335.2
 MATCH POINT

UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.



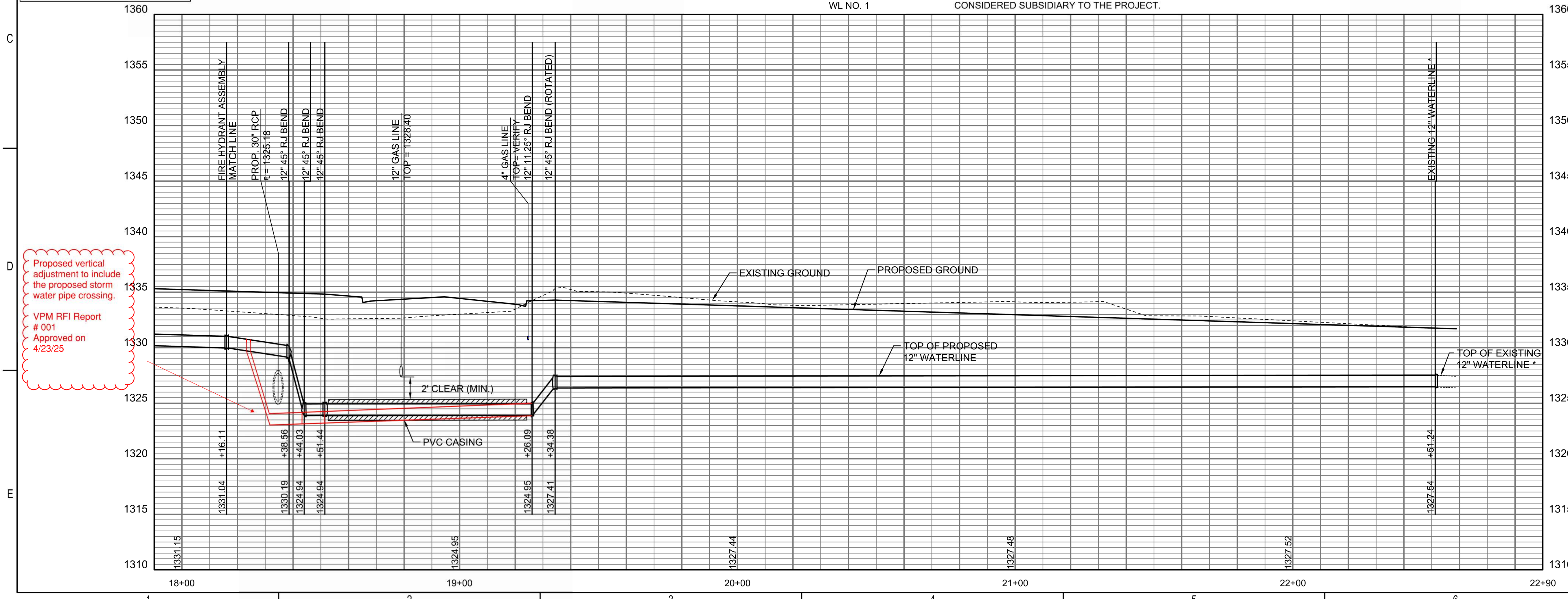
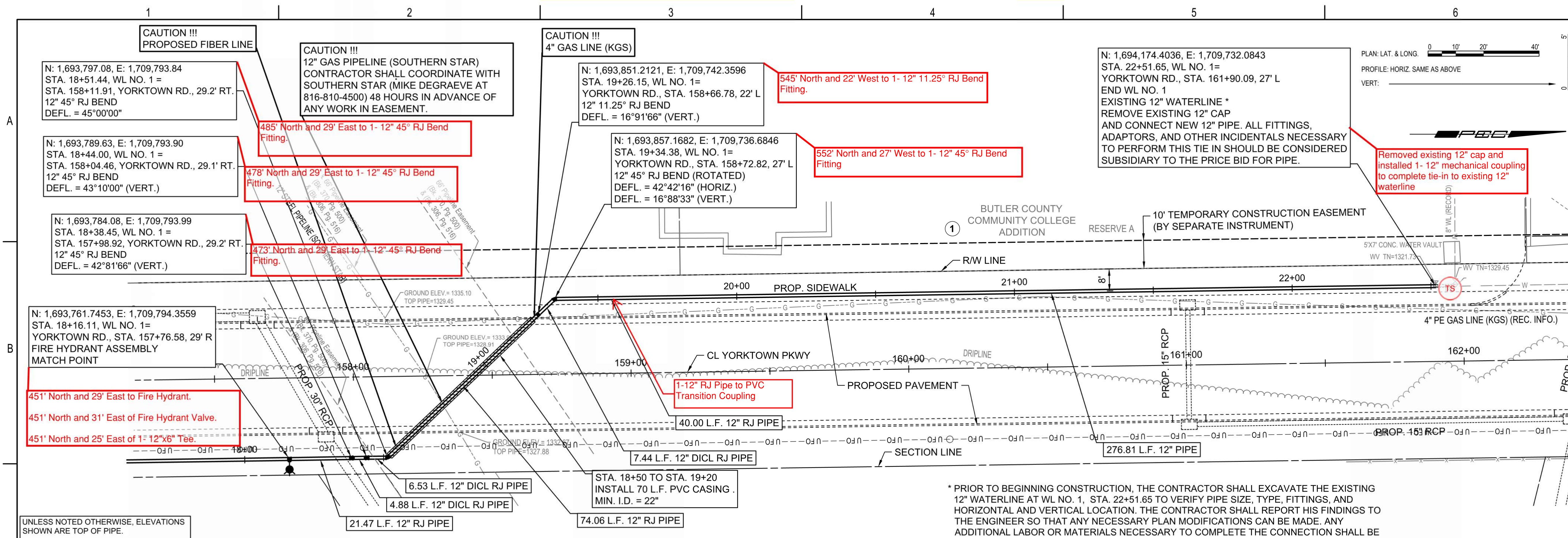
WATER DISTRIBUTION SYSTEM
 ALONG
 YORKTOWN PARKWAY AND
 COMMERCE STREET
 ANDOVER, KANSAS
 PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 1
 CU102

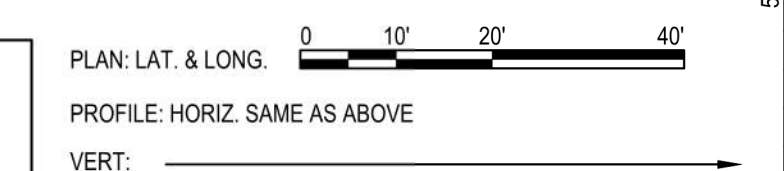
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Reference Point Centerline of Commerce & Yorktown Parkway



Proposed vertical adjustment to include the proposed storm water pipe crossing.
VPM RFI Report # 001 Approved on 4/23/25

* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 12\"/>



WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS

PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	

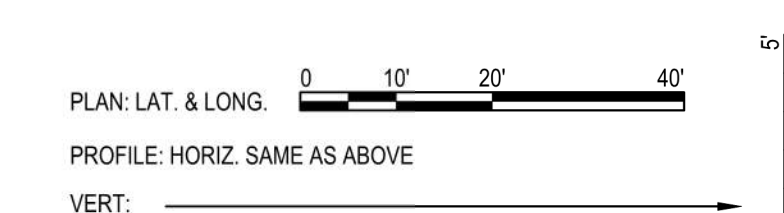
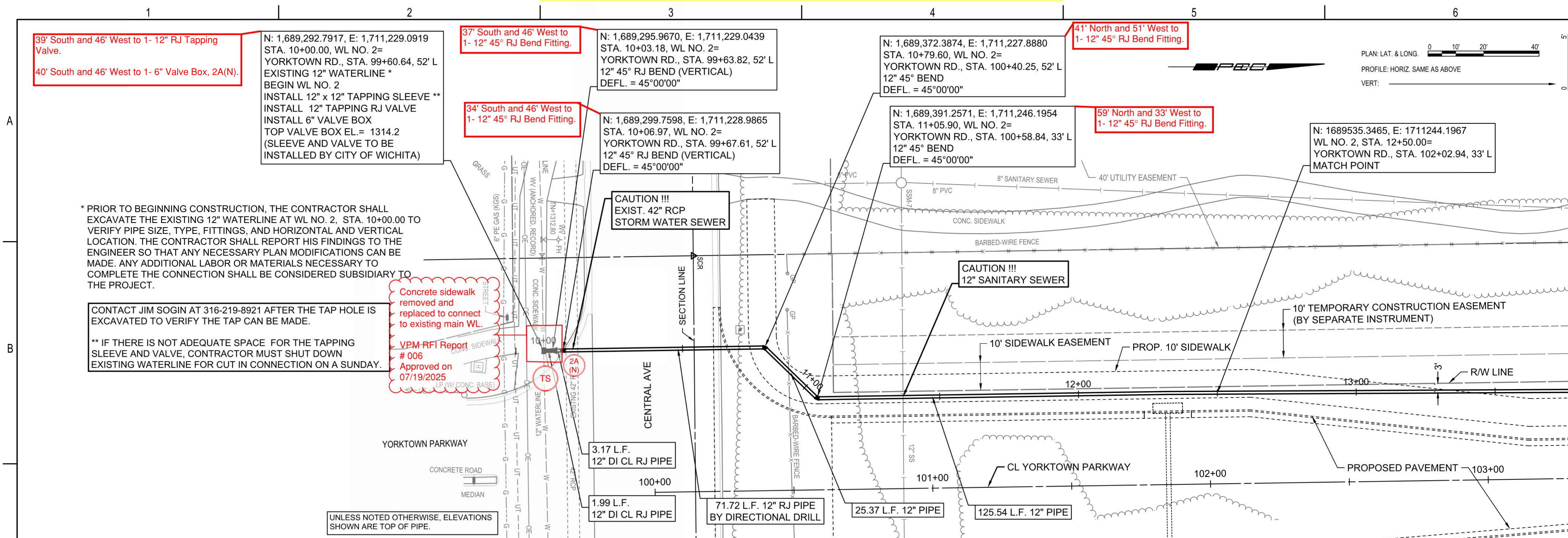
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 1

CU103

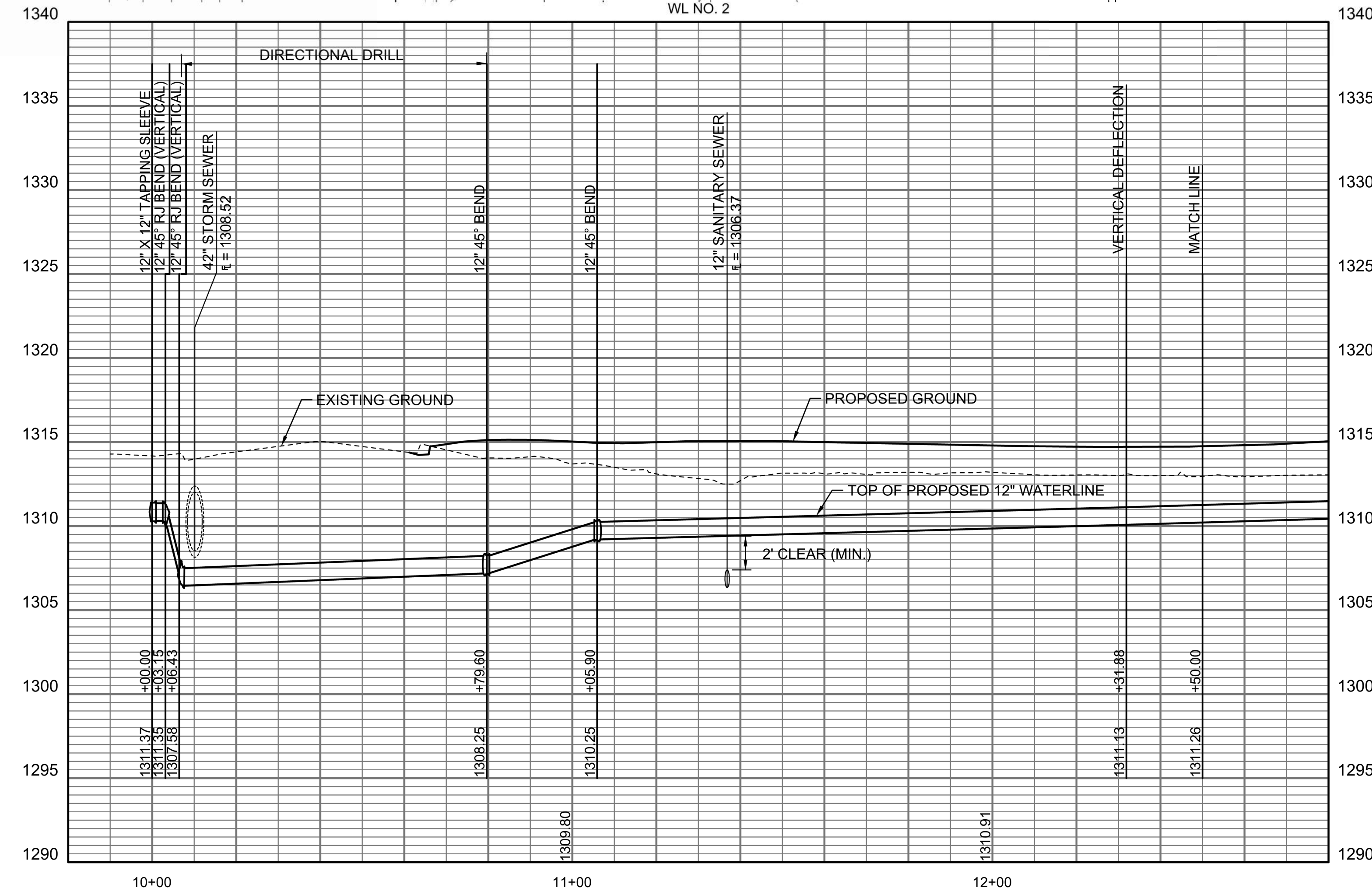
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Reference Point Centerline of Commerce & Yorktown Parkway



WATER DISTRIBUTION SYSTEM
 ALONG
 YORKTOWN PARKWAY AND
 COMMERCE STREET
 ANDOVER, KANSAS

PROJECT NUMBER 2024-029657 PPW (54030980)



Issue:	
	RED LINE - FIELD SET
	U:\Wichita-Civil\2020\207083\020\Inspect

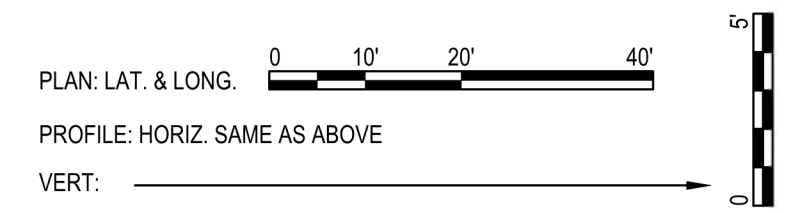
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2

CU104

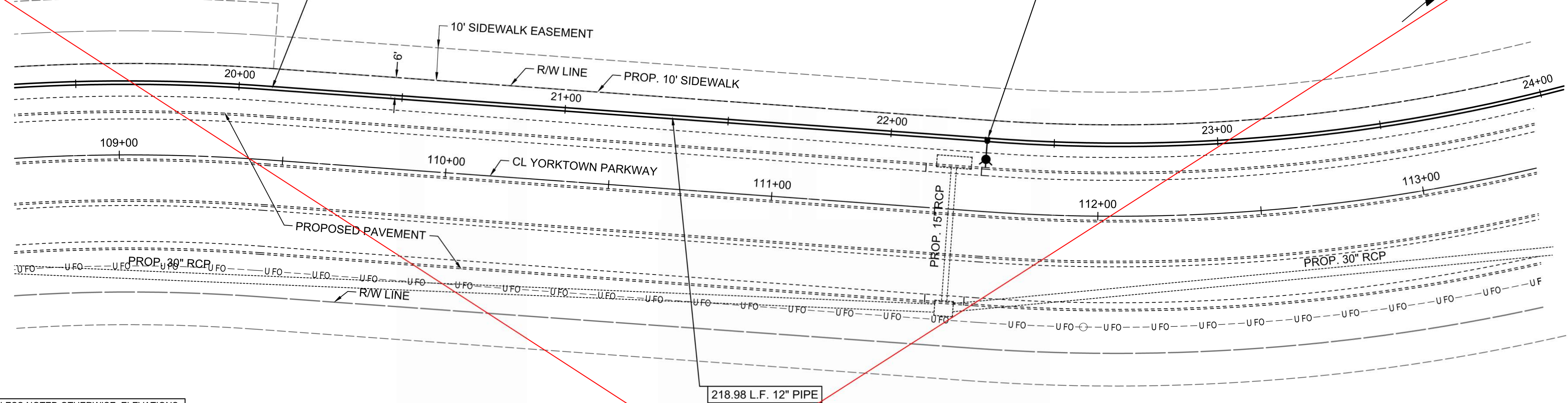
SAVED 1/10/2025 9:12:37 AM BY CATHY LINK
 PLOTTED 1/31/2025 9:35:59 AM BY CATHY LINK
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1 2 3 4 5 6

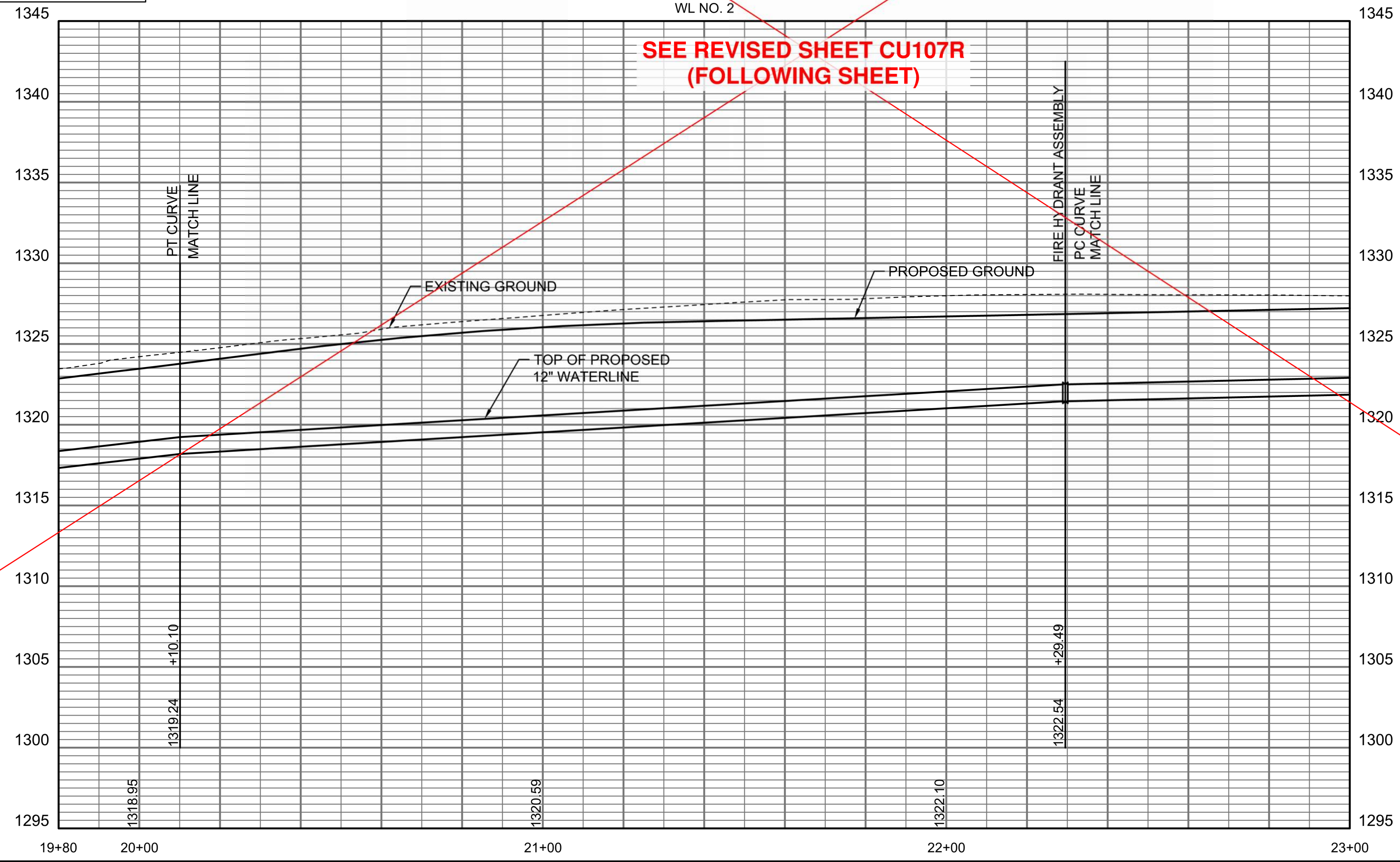


N: 1,690,408.2504, E: 1,711,566.8711
 STA. 22+29.49, WL NO. 2=
 YORKTOWN RD., STA. 111+64.59, 22' L
 FIRE HYDRANT ASSEMBLY
 L= 6'
 TOP VALVE BOX EL.= 1326.8
 FH BURY LINE EL.= 1326.7
 PC CURVE
 MATCH POINT

N: 1690250.7839, E: 1711414.1026
 WL NO. 2, STA. 20+10.10=
 YORKTOWN RD., STA. 109+45.19, 22' L
 PT CURVE
 MATCH POINT



UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.



WATER DISTRIBUTION SYSTEM
 ALONG
 YORKTOWN PARKWAY AND
 COMMERCE STREET
 ANDOVER, KANSAS

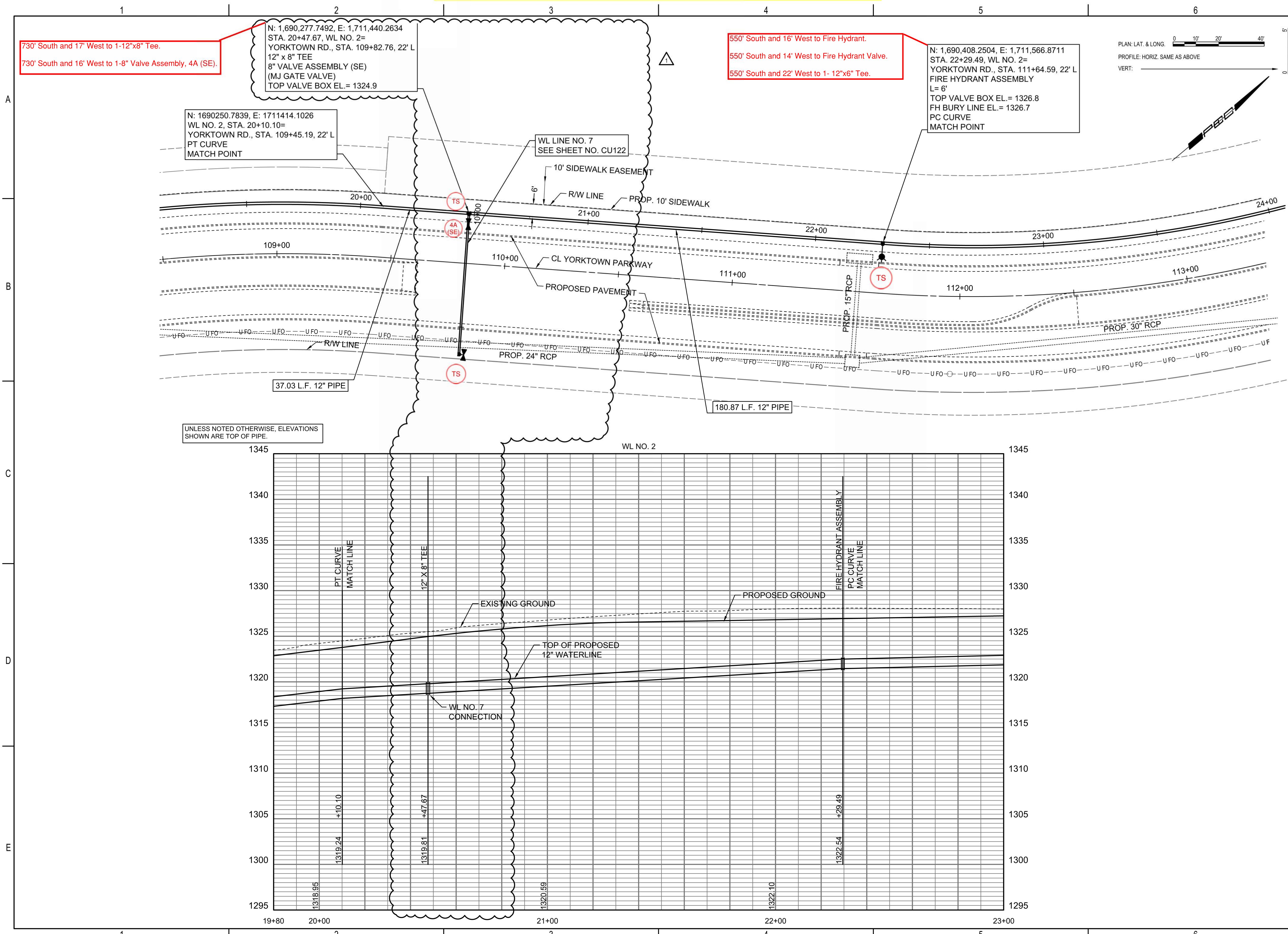
PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2
CU107

SAVED 1/10/2025 3:37:47 PM BY CATHY LINK
 PLOTTED 1/31/2025 9:37:23 AM BY CATHY LINK
 U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU107 WATERLINE NO. 2.DWG

Reference Point Centerline of Waterview Dr. & Yorktown Parkway



730' South and 17' West to 1-12"x8" Tee.
730' South and 16' West to 1-8" Valve Assembly, 4A (SE).

N: 1,690,277.7492, E: 1,711,440.2634
STA. 20+47.67, WL NO. 2=
YORKTOWN RD., STA. 109+82.76, 22' L
12" x 8" TEE
8" VALVE ASSEMBLY (SE)
(MJ GATE VALVE)
TOP VALVE BOX EL.= 1324.9

550' South and 16' West to Fire Hydrant.
550' South and 14' West to Fire Hydrant Valve.
550' South and 22' West to 1- 12"x6" Tee.

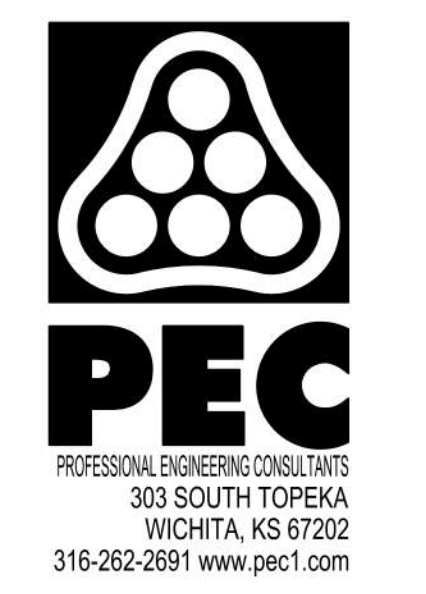
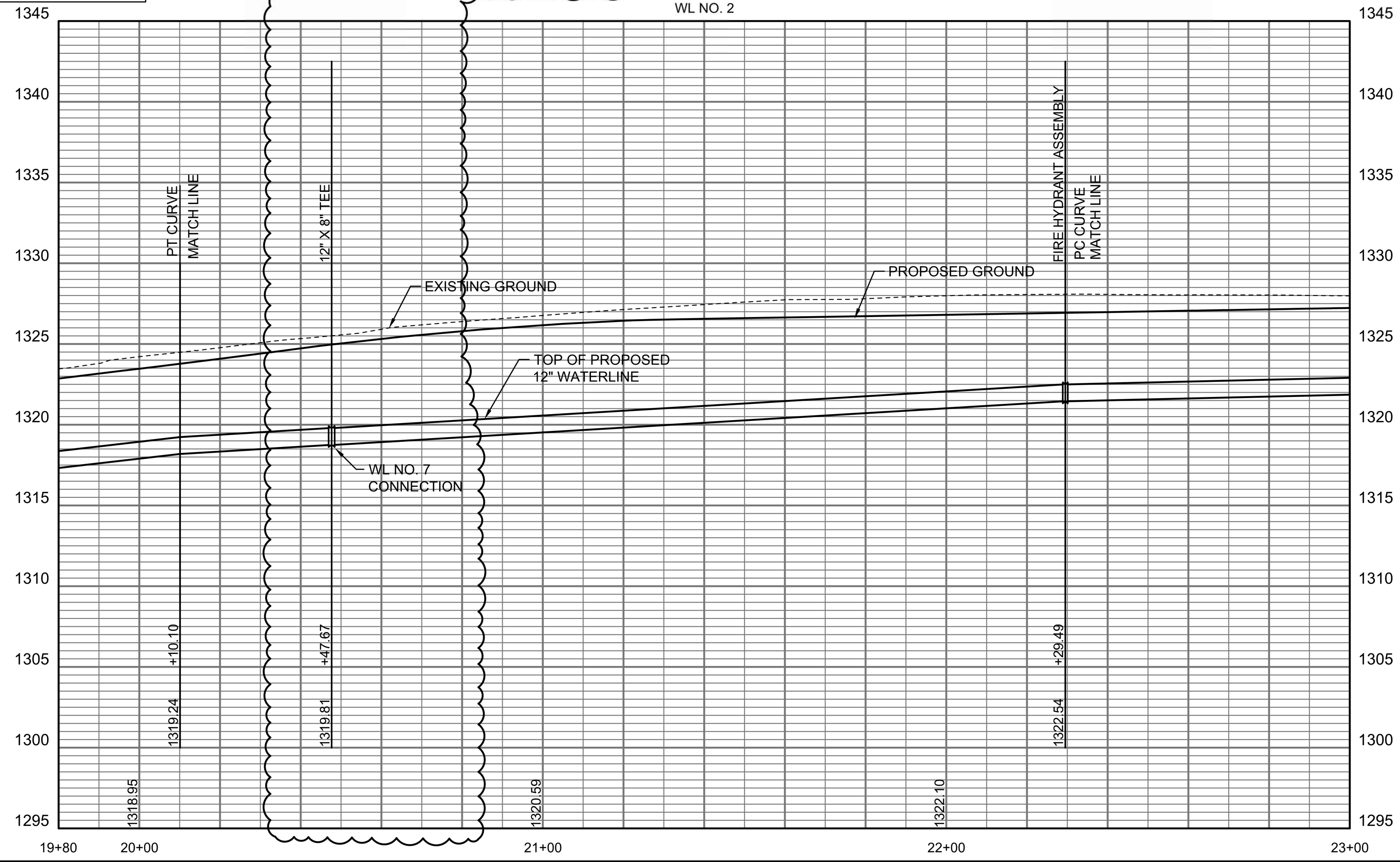
N: 1,690,408.2504, E: 1,711,566.8711
STA. 22+29.49, WL NO. 2=
YORKTOWN RD., STA. 111+64.59, 22' L
FIRE HYDRANT ASSEMBLY
L= 6'
TOP VALVE BOX EL.= 1326.8
FH BURY LINE EL.= 1326.7
PC CURVE
MATCH POINT

PLAN: LAT. & LONG. 0 10' 20' 40'
PROFILE: HORIZ. SAME AS ABOVE
VERT: 0 10' 20' 40'

N: 1690250.7839, E: 1711414.1026
WL NO. 2, STA. 20+10.10=
YORKTOWN RD., STA. 109+45.19, 22' L
PT CURVE
MATCH POINT

WL LINE NO. 7
SEE SHEET NO. CU122

UNLESS NOTED OTHERWISE, ELEVATIONS
SHOWN ARE TOP OF PIPE.



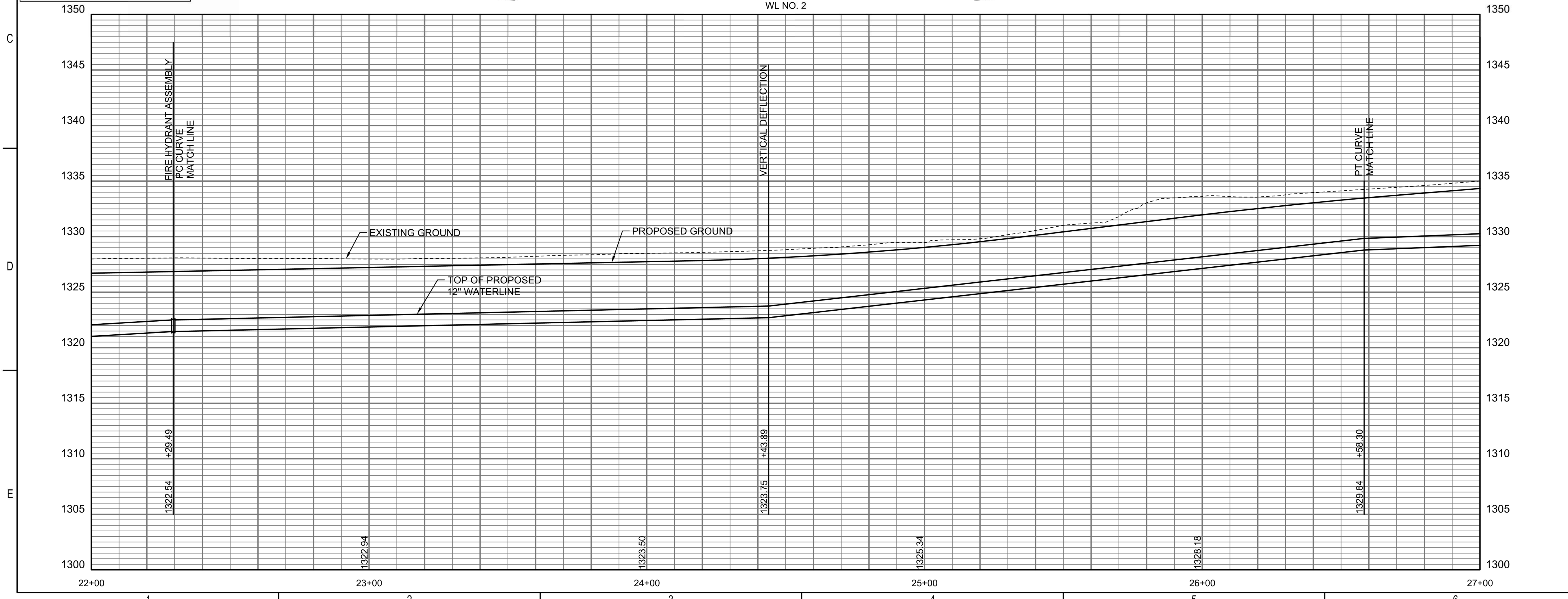
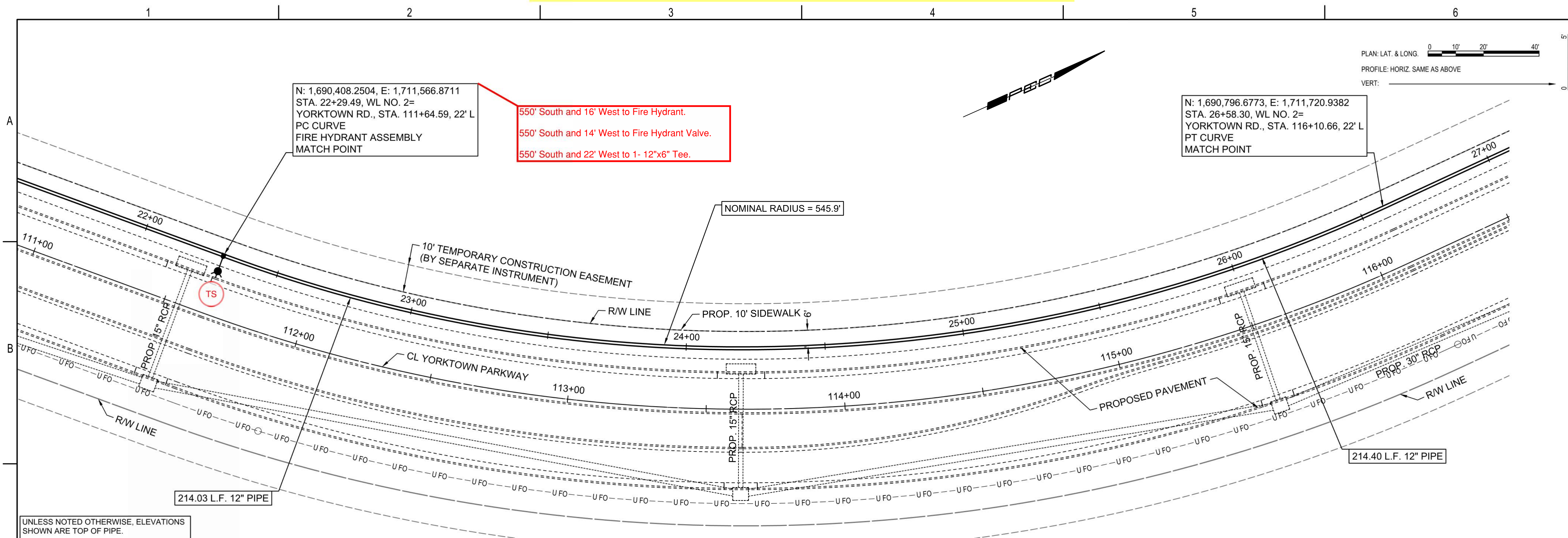
WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS
GARY JANZEN, P.E. WICHITA CITY ENGINEER
PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	REVISION	6/03/25
	RED LINE - FIELD SET	
U:\Wichita-Civil\2020\207083\020\Inspect		
JOB NO.	207083-020	
DATE	OCTOBER 2024	
PM	GAS	
DESIGNED BY	GAS	
DRAWN BY	AJH	
CHECKED BY	TBK	

WATERLINE NO. 2
CU107 R

SAVED 7/16/2025 2:53:18 PM BY CATHY LINK
PLOTTED 7/16/2025 2:59:06 PM BY CATHY LINK
U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU107 WATERLINE NO. 2.DWG

Reference Point Centerline of Waterview Dr. & Yorktown Parkway



PLAN: LAT. & LONG. 0 10' 20' 40'
 PROFILE: HORIZ. SAME AS ABOVE
 VERT: 0 10'



WATER DISTRIBUTION SYSTEM
 ALONG
 YORKTOWN PARKWAY AND
 COMMERCE STREET
 ANDOVER, KANSAS

PROJECT NUMBER 2024-029657 PPW (54030980)

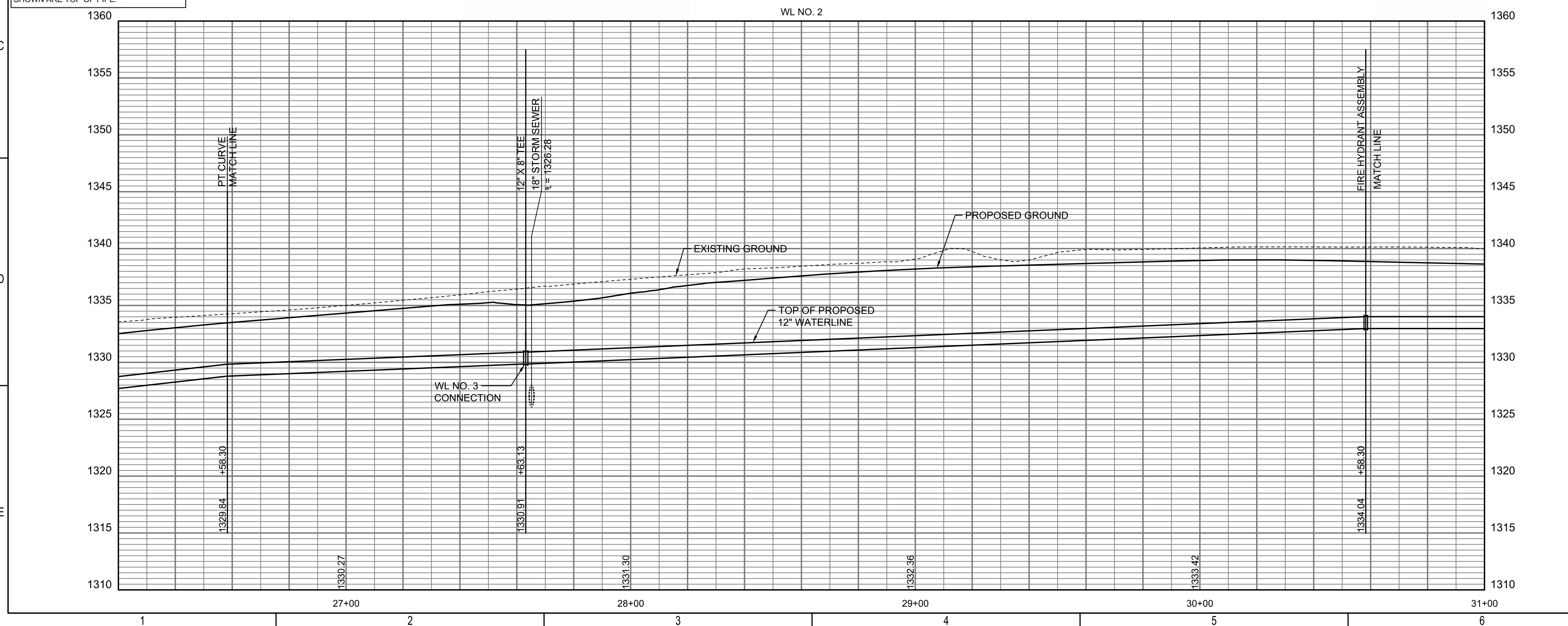
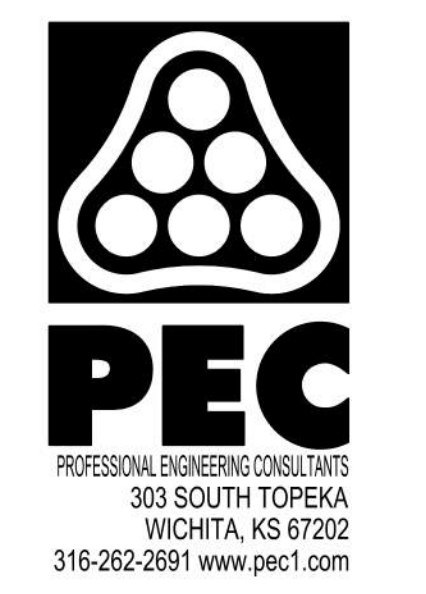
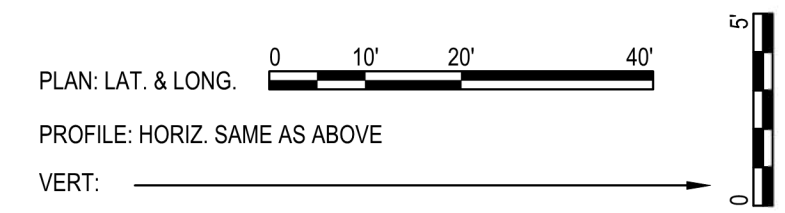
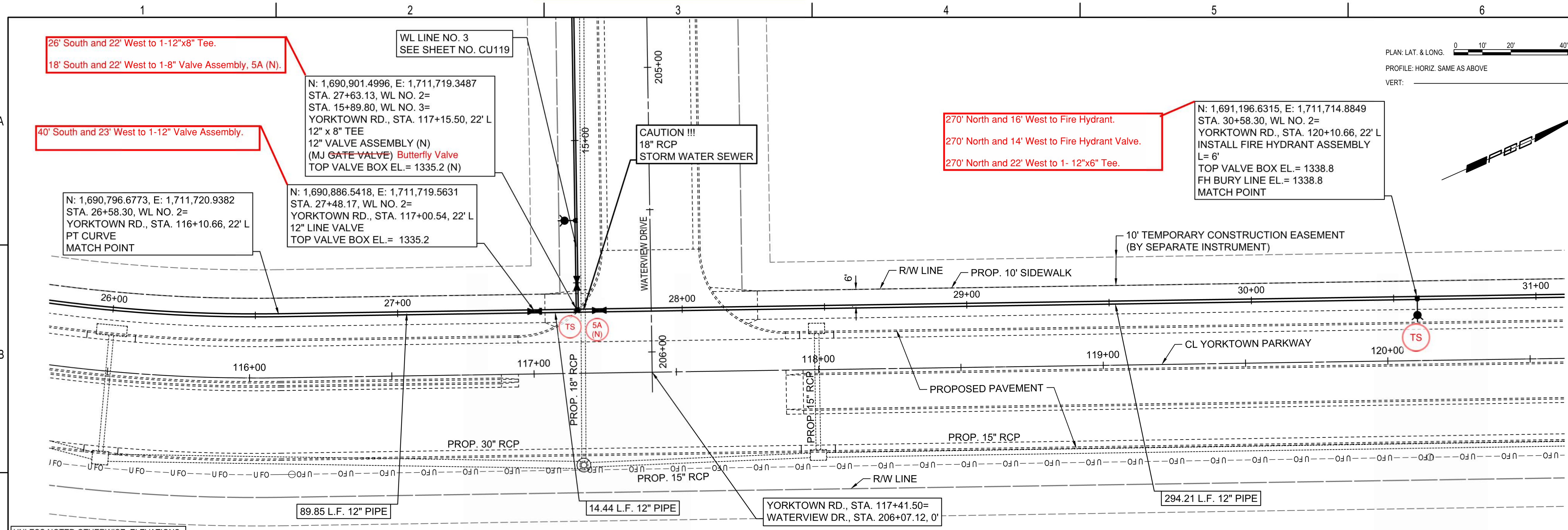
Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2

CU108

SAVED 1/31/2025 9:25:21 AM BY CATHY LINK
 PLOTTED 1/31/2025 9:37:51 AM BY CATHY LINK
 U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU108 WATERLINE NO. 2.DWG

Reference Point Centerline of Waterview Dr. & Yorktown Parkway



WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS

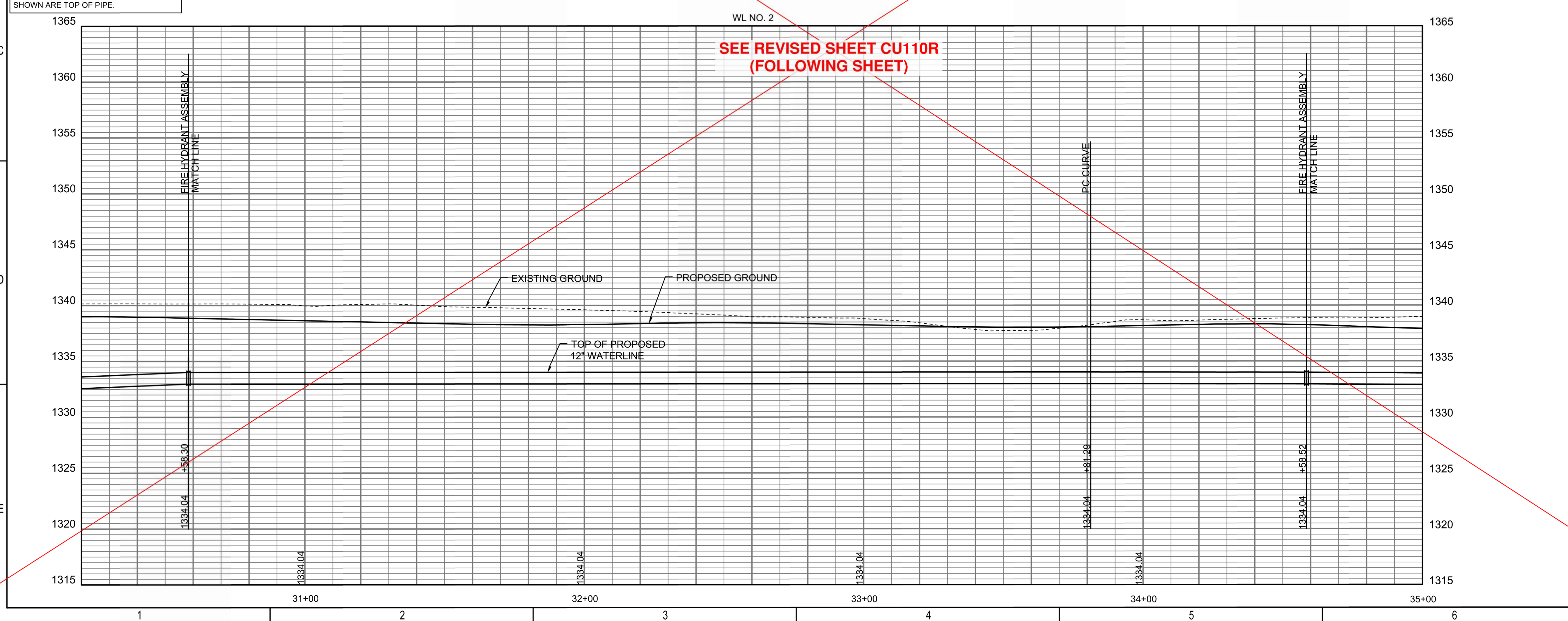
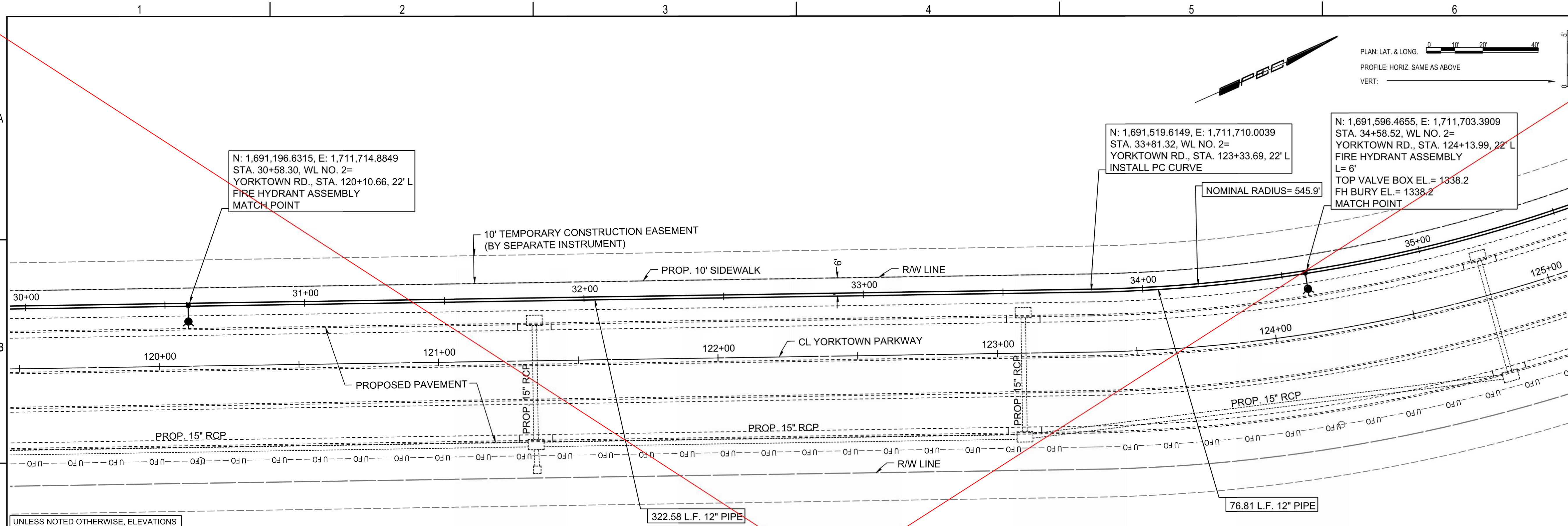
PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	

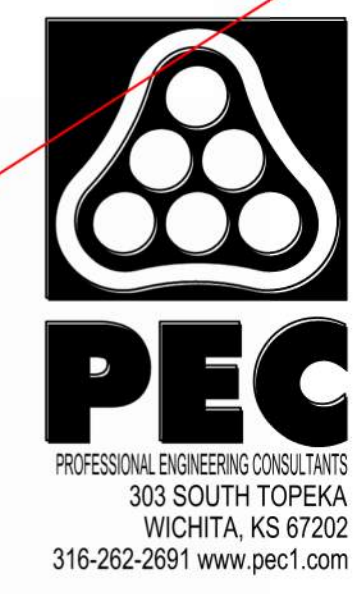
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2
CU109

SAVED 1/10/2025 9:51:24 AM BY CATHY LINK
PLOTTED 1/31/2025 9:38:18 AM BY CATHY LINK
U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU109 WATERLINE NO. 2.DWG



SAVED 1/10/2025 9:55:37 AM BY CATHY LINK
 PLOTTED 1/31/2025 9:38:45 AM BY CATHY LINK
 U:\WICHITA-CIVIL\2020\207083\020\DRAWINGS\WATERLINE\207083-020-CU110 WATERLINE NO. 2.DWG



WATER DISTRIBUTION SYSTEM
 ALONG
**YORKTOWN PARKWAY AND
 COMMERCE STREET**
 ANDOVER, KANSAS

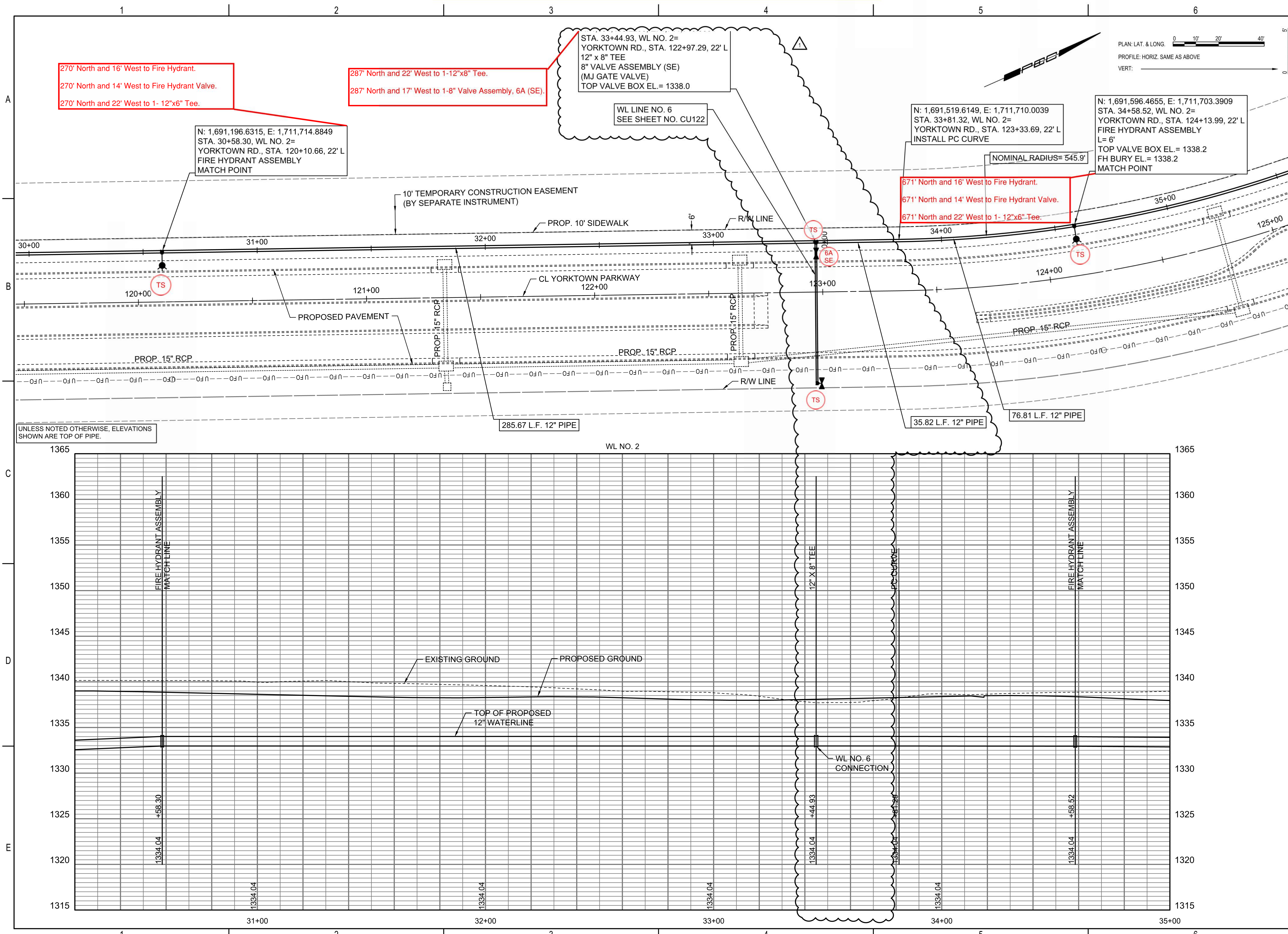
PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	
	RED LINE - FIELD SET
	U:\Wichita-Civil\2020\207083\020\Inspect
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2

CU110

Reference Point Centerline of Waterview Dr. & Yorktown Parkway



270' North and 16' West to Fire Hydrant.
270' North and 14' West to Fire Hydrant Valve.
270' North and 22' West to 1- 12"x6" Tee.

287' North and 22' West to 1-12"x8" Tee.
287' North and 17' West to 1-8" Valve Assembly, 6A (SE).

STA. 33+44.93, WL NO. 2=
YORKTOWN RD., STA. 122+97.29, 22' L
12" x 8" TEE
8" VALVE ASSEMBLY (SE)
(MJ GATE VALVE)
TOP VALVE BOX EL.= 1338.0

N: 1,691,196.6315, E: 1,711,714.8849
STA. 30+58.30, WL NO. 2=
YORKTOWN RD., STA. 120+10.66, 22' L
FIRE HYDRANT ASSEMBLY
MATCH POINT

WL LINE NO. 6
SEE SHEET NO. CU122

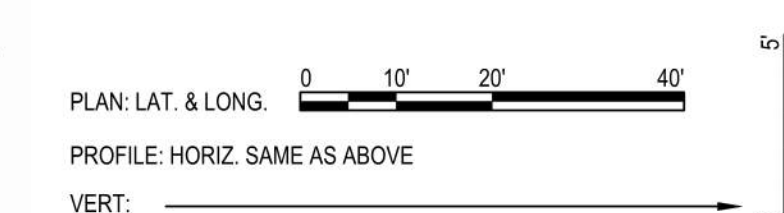
N: 1,691,519.6149, E: 1,711,710.0039
STA. 33+81.32, WL NO. 2=
YORKTOWN RD., STA. 123+33.69, 22' L
INSTALL PC CURVE

N: 1,691,596.4655, E: 1,711,703.3909
STA. 34+58.52, WL NO. 2=
YORKTOWN RD., STA. 124+13.99, 22' L
FIRE HYDRANT ASSEMBLY
L= 6'
TOP VALVE BOX EL.= 1338.2
FH BURY EL.= 1338.2
MATCH POINT

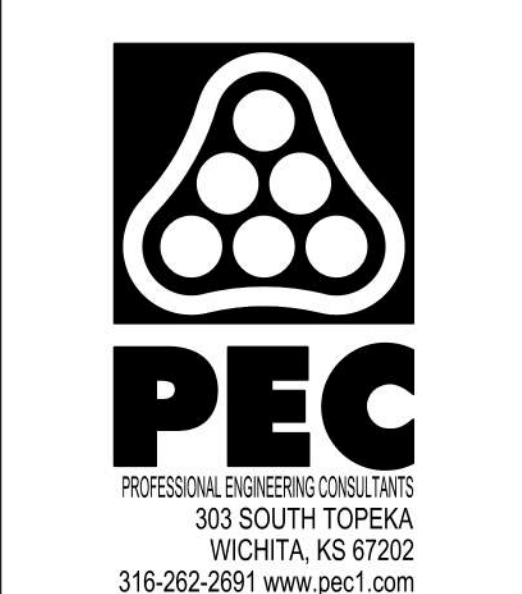
671' North and 16' West to Fire Hydrant.
671' North and 14' West to Fire Hydrant Valve.
671' North and 22' West to 1- 12"x6" Tee.

NOMINAL RADIUS= 545.9'

UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.



SAVED 6/3/2025 1:35:24 PM BY CATHY.LINK
PLOTTED 7/16/2025 2:59:08 PM BY CATHY.LINK
U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU110 WATERLINE NO. 2.DWG

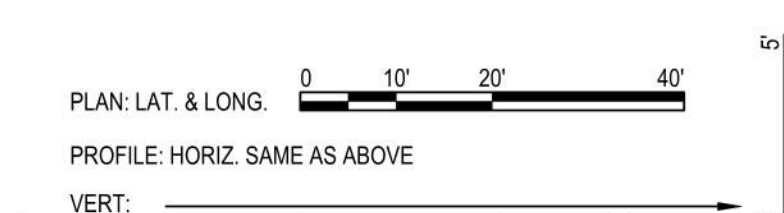
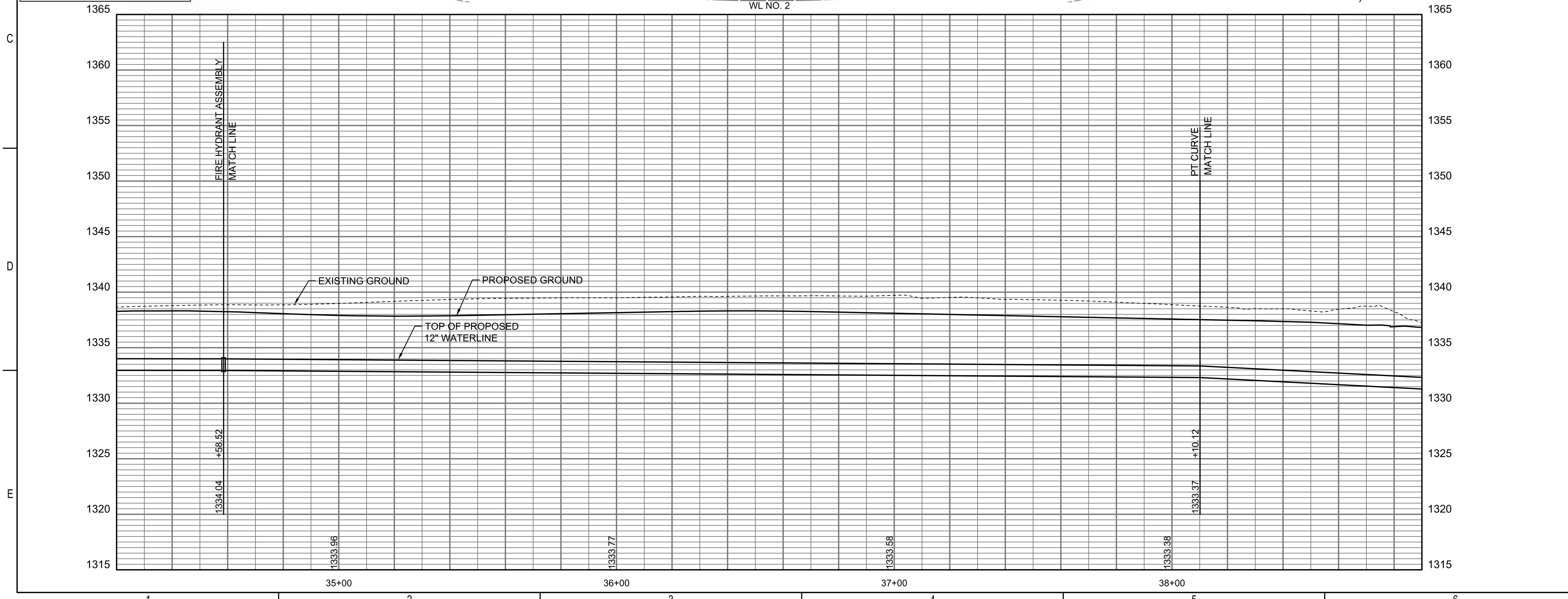
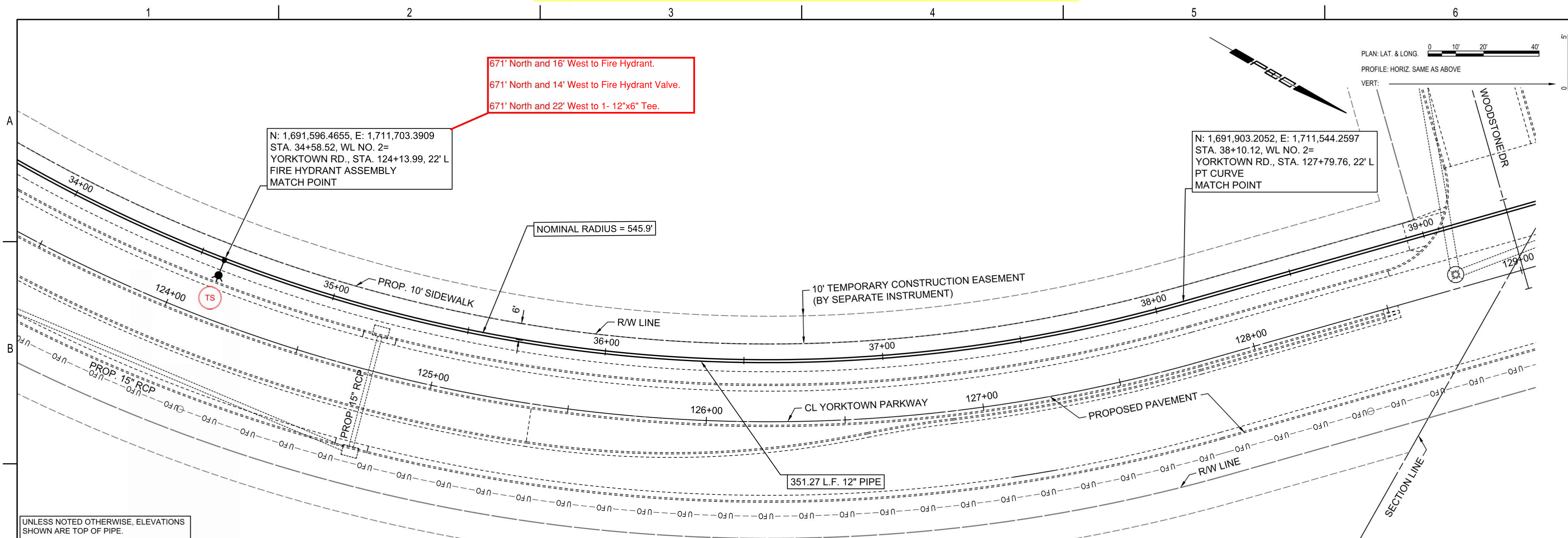


WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS
GARY JANZEN, P.E. WICHITA CITY ENGINEER
PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:		
REVISION	6/03/25	
RED LINE - FIELD SET		
U:\Wichita-Civil\2020\207083\020\Inspect		
JOB NO.	207083-020	
DATE	OCTOBER 2024	
PM	GAS	
DESIGNED BY	GAS	
DRAWN BY	AJH	
CHECKED BY	TBK	

WATERLINE NO. 2
CU110 R

Reference Point Centerline of Waterview Dr. & Yorktown Parkway



N: 1,691,596.4655, E: 1,711,703.3909
 STA. 34+58.52, WL NO. 2=
 YORKTOWN RD., STA. 124+13.99, 22' L
 FIRE HYDRANT ASSEMBLY
 MATCH POINT

671' North and 16' West to Fire Hydrant.
 671' North and 14' West to Fire Hydrant Valve.
 671' North and 22' West to 1- 12"x6" Tee.

N: 1,691,903.2052, E: 1,711,544.2597
 STA. 38+10.12, WL NO. 2=
 YORKTOWN RD., STA. 127+79.76, 22' L
 PT CURVE
 MATCH POINT

UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.



WATER DISTRIBUTION SYSTEM
 ALONG
**YORKTOWN PARKWAY AND
 COMMERCE STREET**
 ANDOVER, KANSAS
 PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	

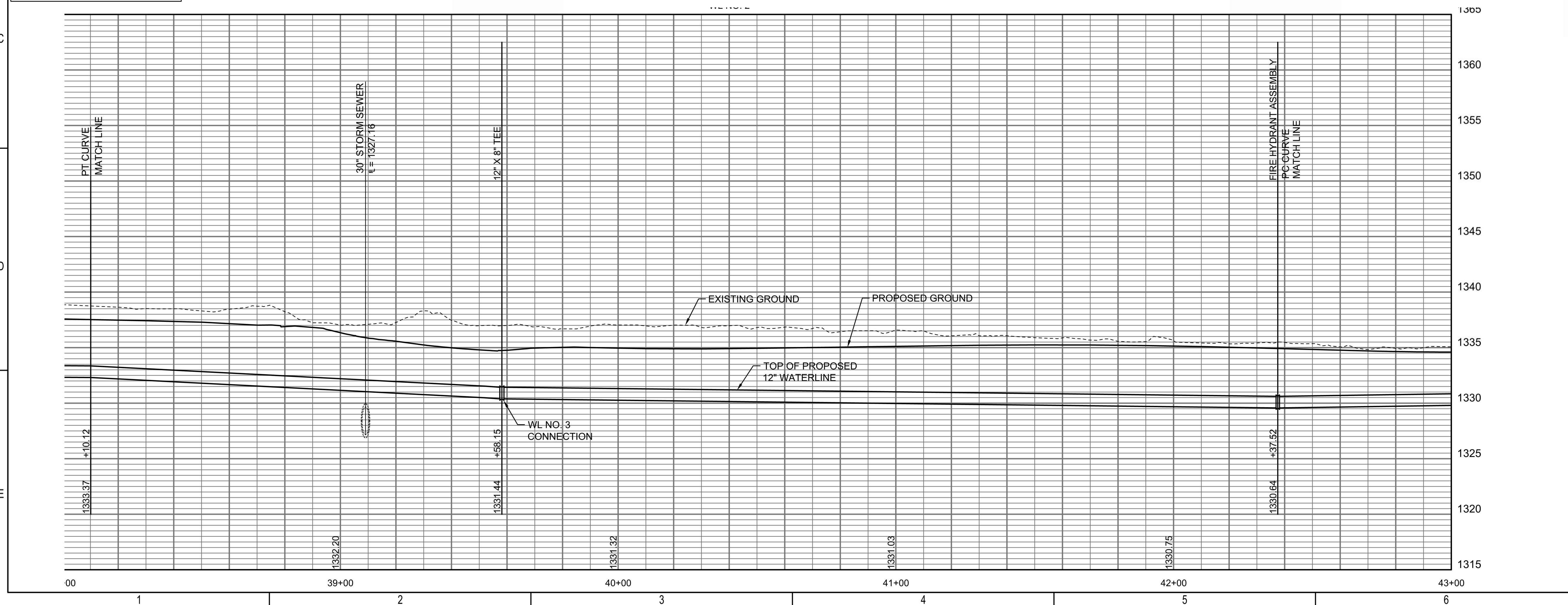
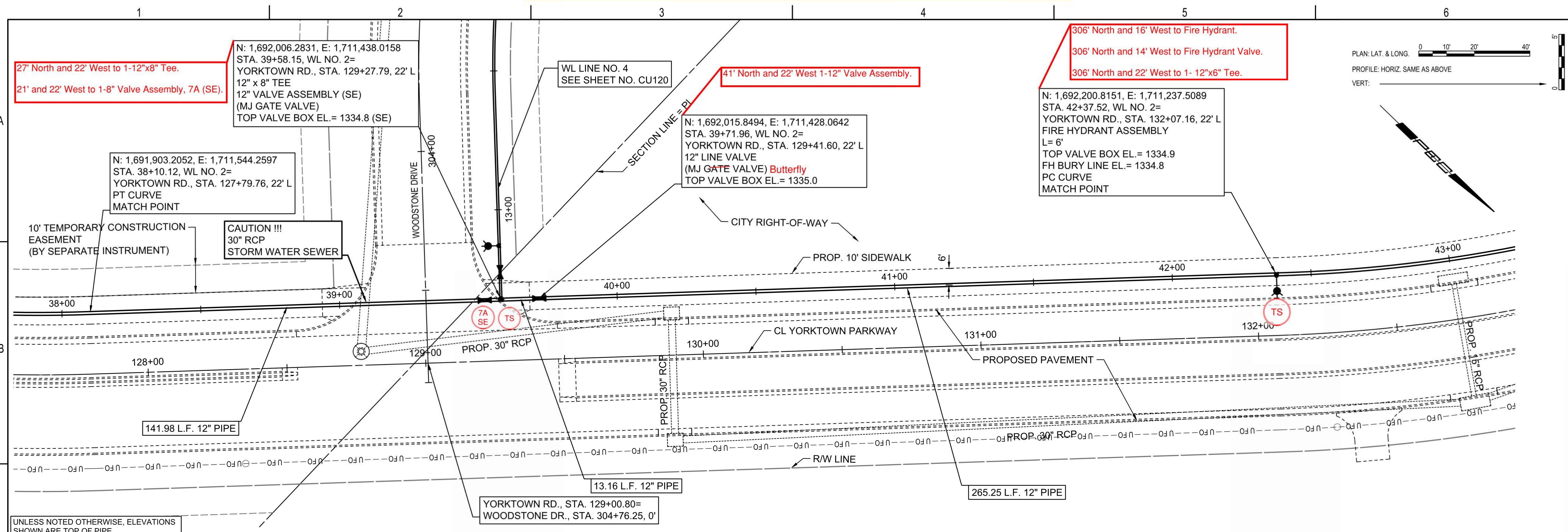
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2

CU111

SAVED 1/31/2025 9:25:57 AM BY CATHY LINK
 PLOTTED 1/31/2025 9:39:12 AM BY CATHY LINK
 U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU111 WATERLINE NO. 2.DWG

Reference Point Centerline of Woodstone Dr. & Yorktown Parkway



UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.

306' North and 16' West to Fire Hydrant.
 306' North and 14' West to Fire Hydrant Valve.
 306' North and 22' West to 1-12"x6" Tee.

N: 1,692,006.2831, E: 1,711,438.0158
 STA. 39+58.15, WL NO. 2=
 YORKTOWN RD., STA. 129+27.79, 22' L
 12" x 8" TEE
 12" VALVE ASSEMBLY (SE)
 (MJ GATE VALVE)
 TOP VALVE BOX EL.= 1334.8 (SE)

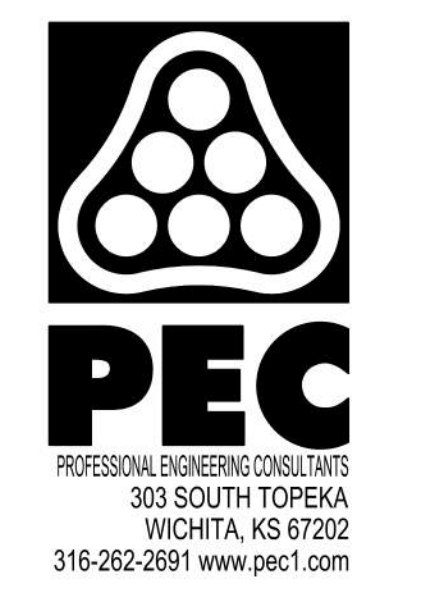
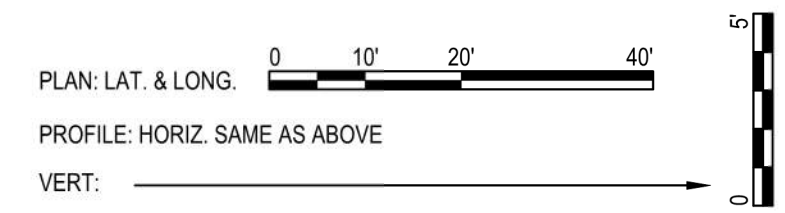
N: 1,692,015.8494, E: 1,711,428.0642
 STA. 39+71.96, WL NO. 2=
 YORKTOWN RD., STA. 129+41.60, 22' L
 12" LINE VALVE
 (MJ GATE VALVE) Butterfly
 TOP VALVE BOX EL.= 1335.0

N: 1,692,200.8151, E: 1,711,237.5089
 STA. 42+37.52, WL NO. 2=
 YORKTOWN RD., STA. 132+07.16, 22' L
 FIRE HYDRANT ASSEMBLY
 L= 6'
 TOP VALVE BOX EL.= 1334.9
 FH BURY LINE EL.= 1334.8
 PC CURVE
 MATCH POINT

N: 1,691,903.2052, E: 1,711,544.2597
 STA. 38+10.12, WL NO. 2=
 YORKTOWN RD., STA. 127+79.76, 22' L
 PT CURVE
 MATCH POINT

CAUTION !!!
 30" RCP
 STORM WATER SEWER

10' TEMPORARY CONSTRUCTION
 EASEMENT
 (BY SEPARATE INSTRUMENT)



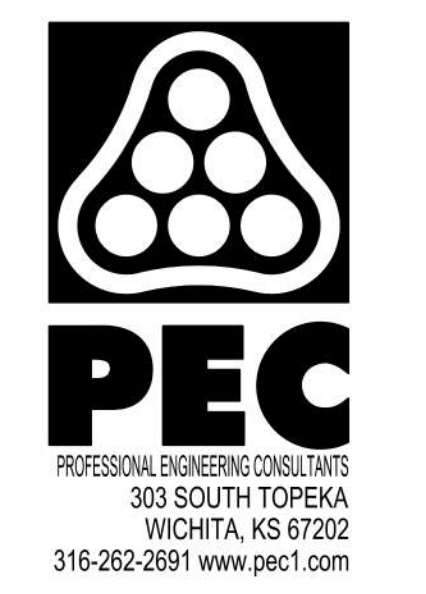
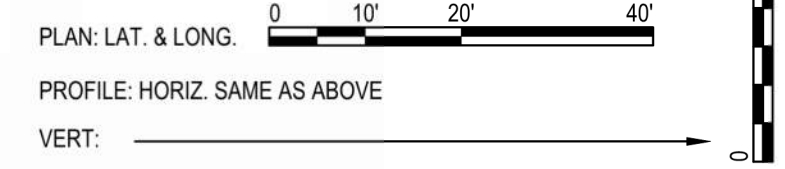
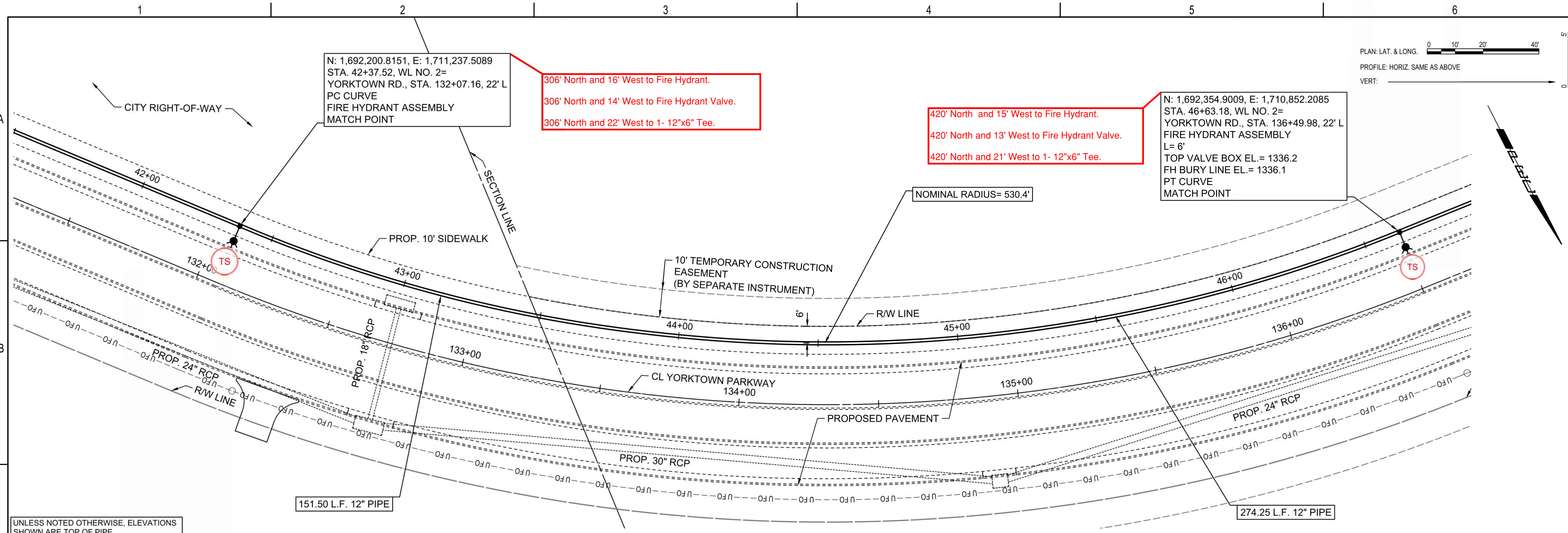
WATER DISTRIBUTION SYSTEM
 ALONG
 YORKTOWN PARKWAY AND
 COMMERCE STREET
 ANDOVER, KANSAS
 PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2
CU112

SAVED 1/10/2025 3:37:42 PM BY CATHY LINK
 PLOTTED 1/31/2025 9:39:39 AM BY CATHY LINK
 U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU112 WATERLINE NO. 2.DWG

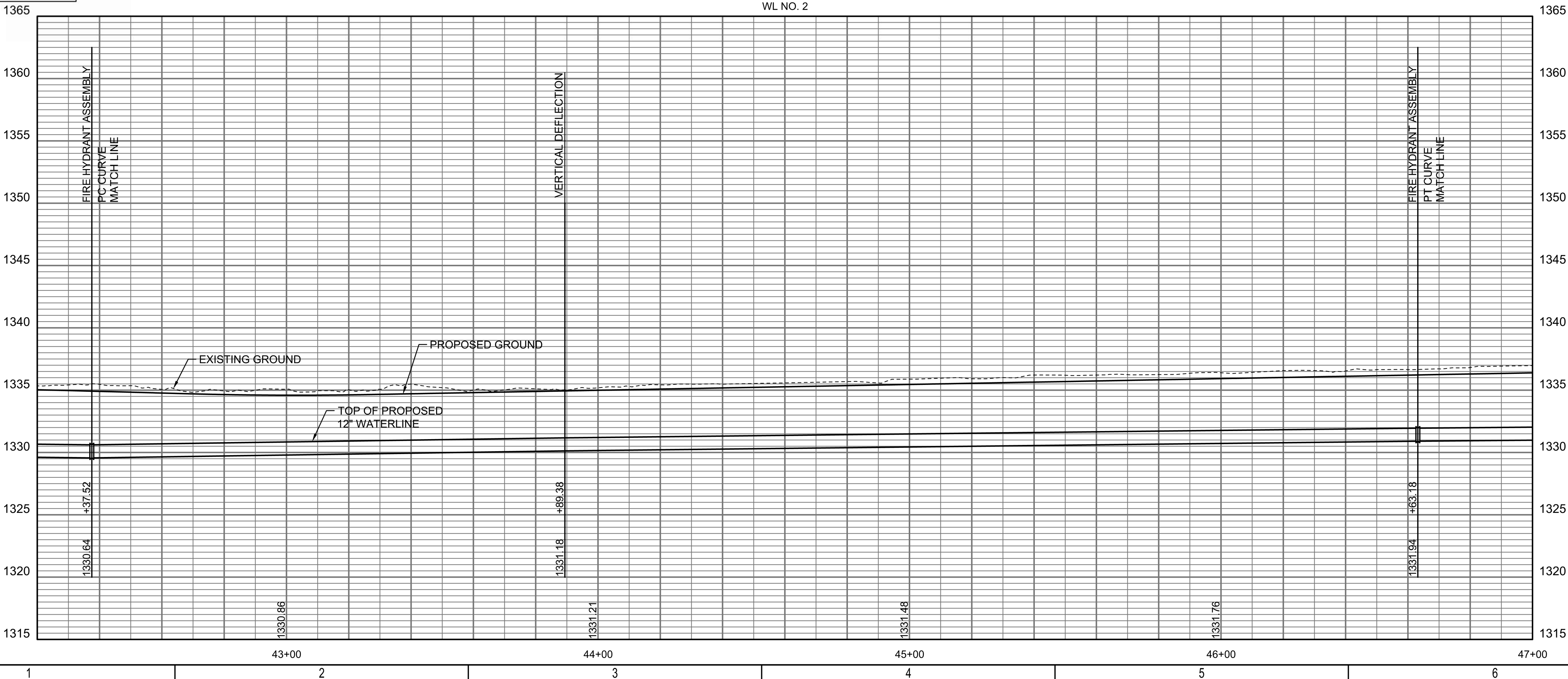
Reference Point Centerline of Woodstone Dr. & Yorktown Parkway



WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS
PROJECT NUMBER 2024-029657 PPW (54030980)

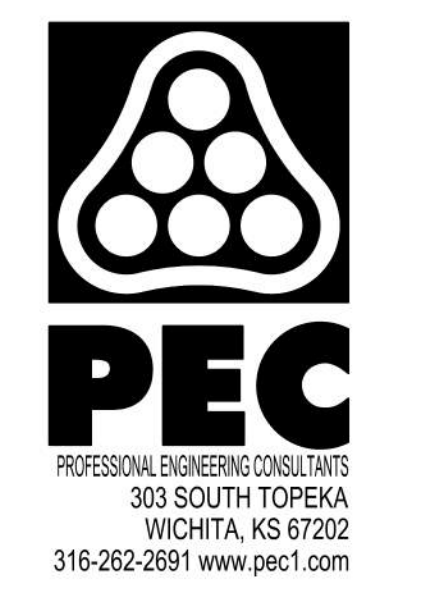
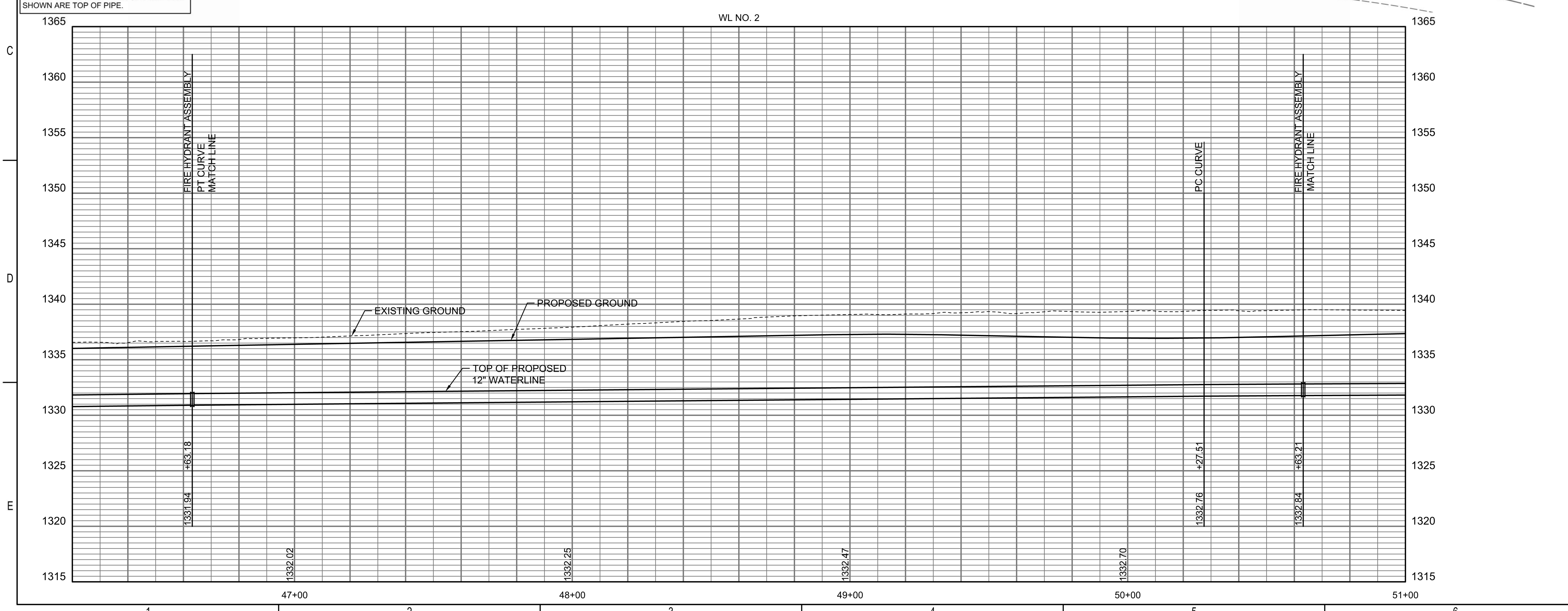
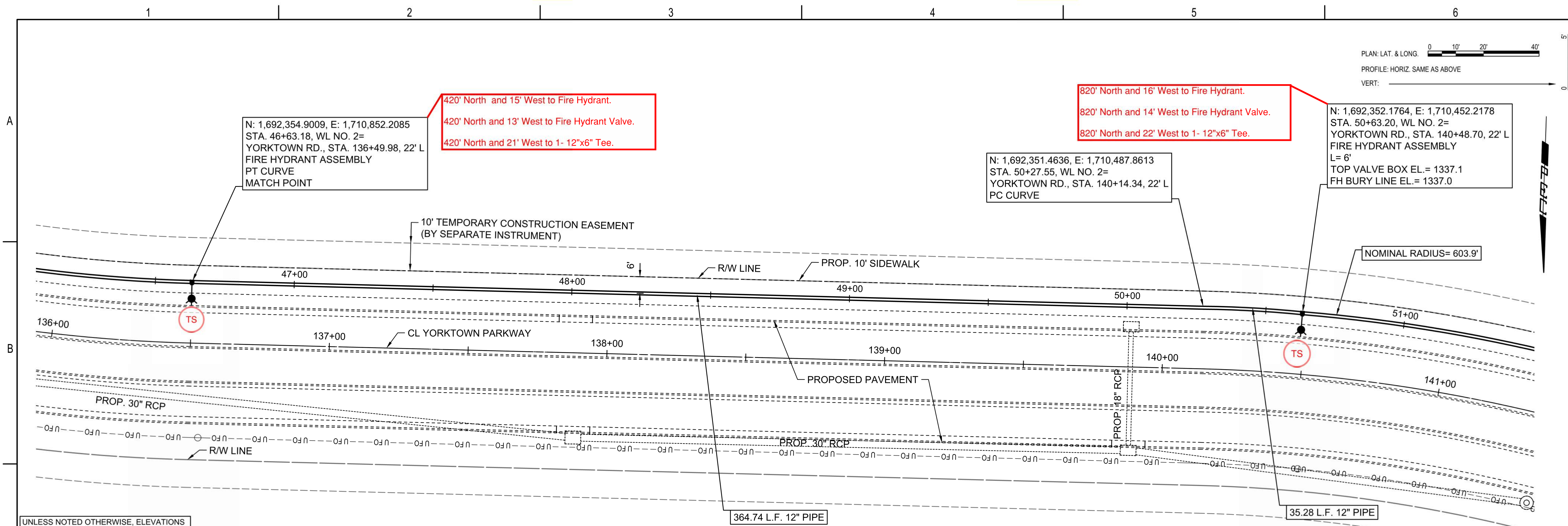
Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2
CU113



SAVED 1/31/2025 9:29:34 AM BY CATHY LINK
PLOTTED 1/31/2025 9:40:05 AM BY CATHY LINK
U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU113 WATERLINE NO. 2.DWG

Reference Point Centerline of Woodstone Dr. & Yorktown Parkway



WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS

PROJECT NUMBER 2024-029657 PPW (54030980)

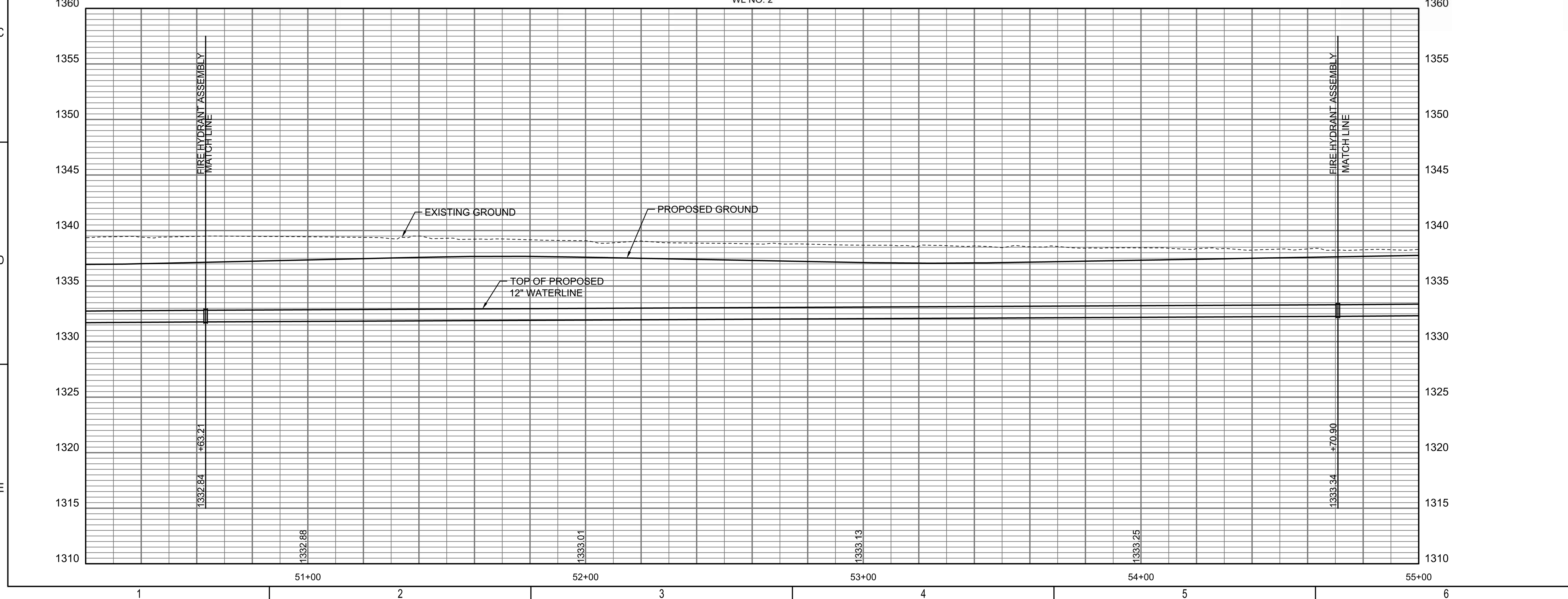
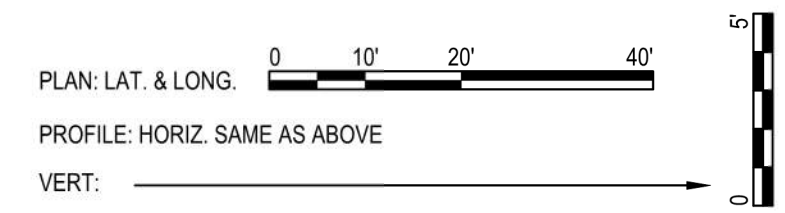
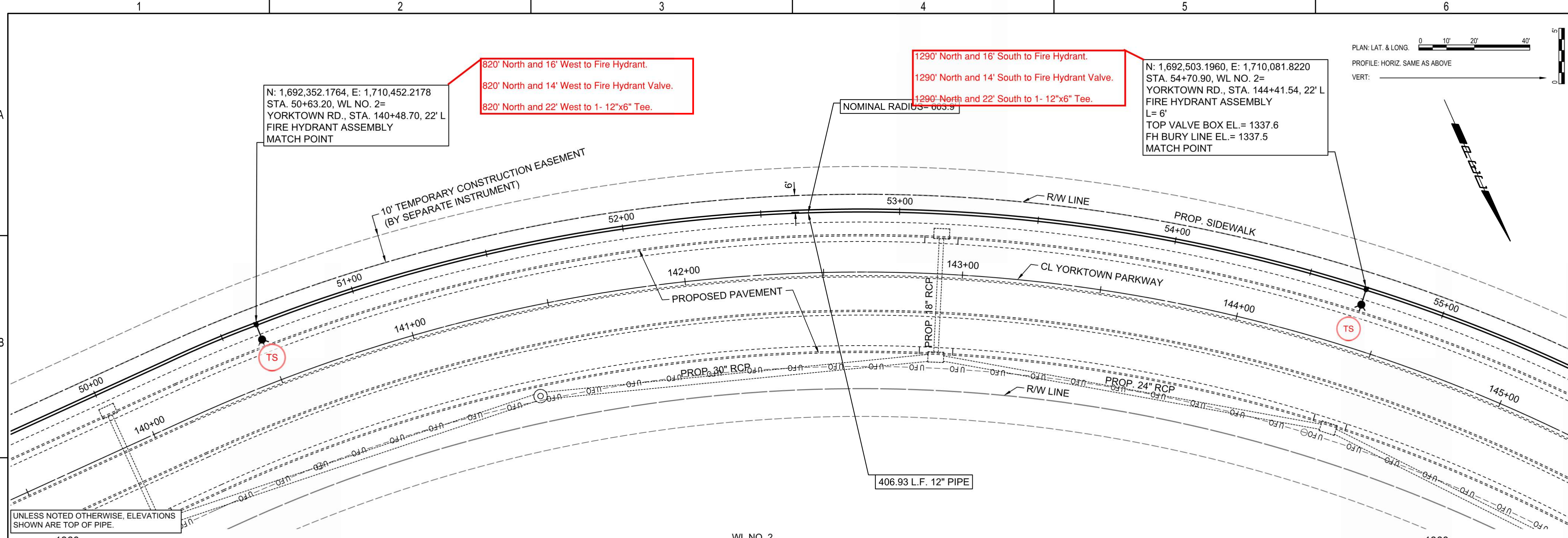
Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2

CU114

SAVED 1/31/2025 9:28:49 AM BY CATHY LINK
PLOTTED 1/31/2025 9:40:31 AM BY CATHY LINK
U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU114 WATERLINE NO. 2.DWG

Reference Point Centerline of Woodstone Dr. & Yorktown Parkway



UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.



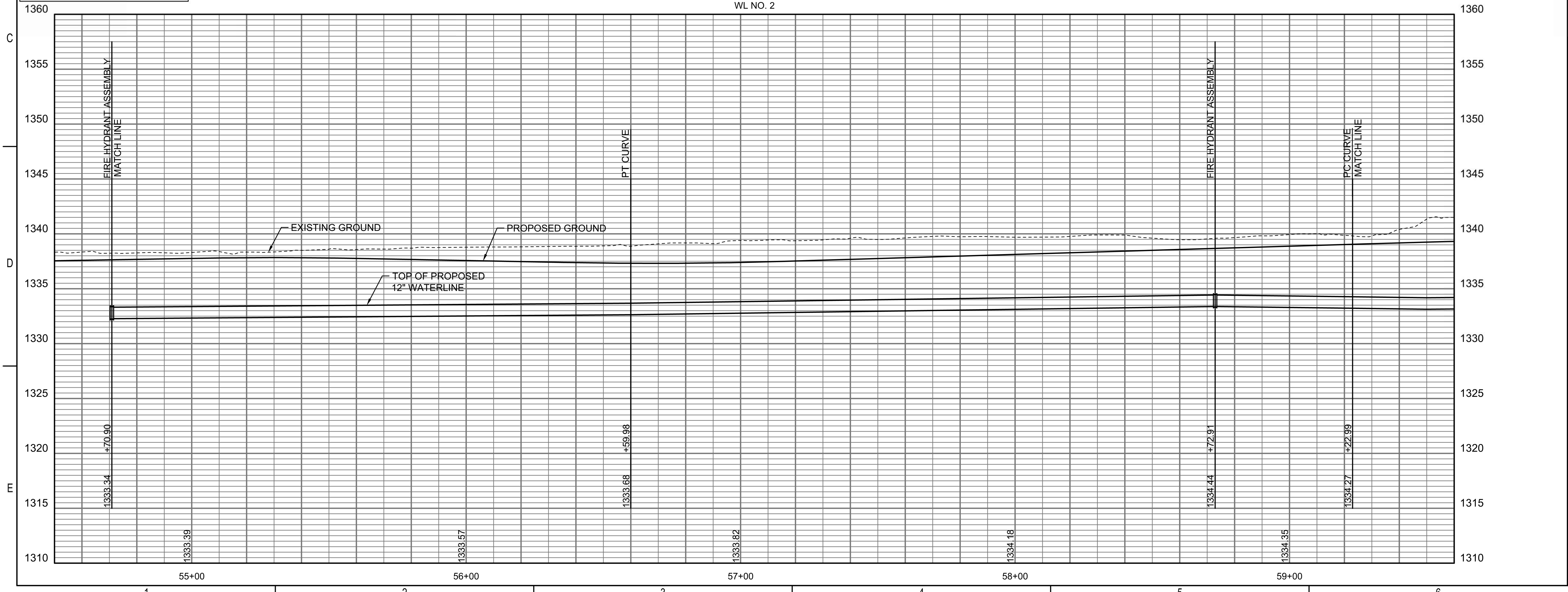
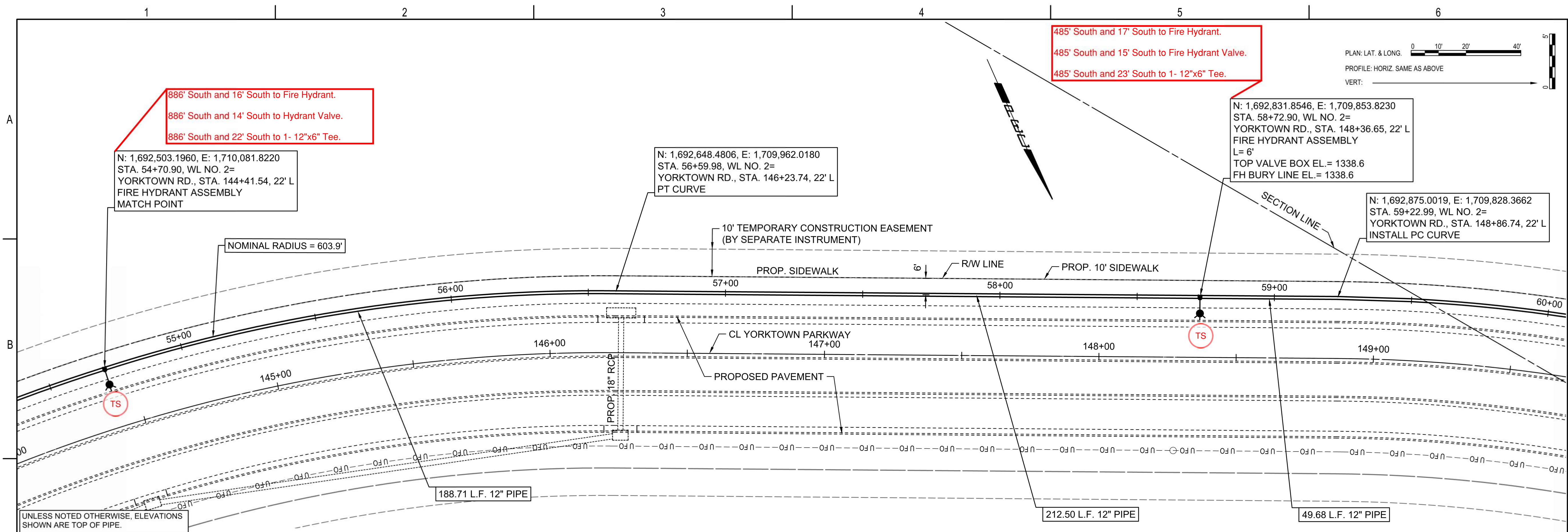
WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS
PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2
CU115

SAVED 1/31/2025 9:28:11 AM BY CATHY LINK
PLOTTED 1/31/2025 9:40:58 AM BY CATHY LINK
U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU115 WATERLINE NO. 2.DWG

Reference Point Centerline of Commerce St. & Yorktown Parkway



PLAN: LAT. & LONG. 0 10' 20' 40'
 PROFILE: HORIZ. SAME AS ABOVE
 VERT: 1" = 10'

N: 1,692,831.8546, E: 1,709,853.8230
 STA. 58+72.90, WL NO. 2=
 YORKTOWN RD., STA. 148+36.65, 22' L
 FIRE HYDRANT ASSEMBLY
 L= 6'
 TOP VALVE BOX EL= 1338.6
 FH BURY LINE EL= 1338.6

N: 1,692,875.0019, E: 1,709,828.3662
 STA. 59+22.99, WL NO. 2=
 YORKTOWN RD., STA. 148+86.74, 22' L
 INSTALL PC CURVE

N: 1,692,503.1960, E: 1,710,081.8220
 STA. 54+70.90, WL NO. 2=
 YORKTOWN RD., STA. 144+41.54, 22' L
 FIRE HYDRANT ASSEMBLY
 MATCH POINT

N: 1,692,648.4806, E: 1,709,962.0180
 STA. 56+59.98, WL NO. 2=
 YORKTOWN RD., STA. 146+23.74, 22' L
 PT CURVE

UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.



WATER DISTRIBUTION SYSTEM
 ALONG
 YORKTOWN PARKWAY AND
 COMMERCE STREET
 ANDOVER, KANSAS
 PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	

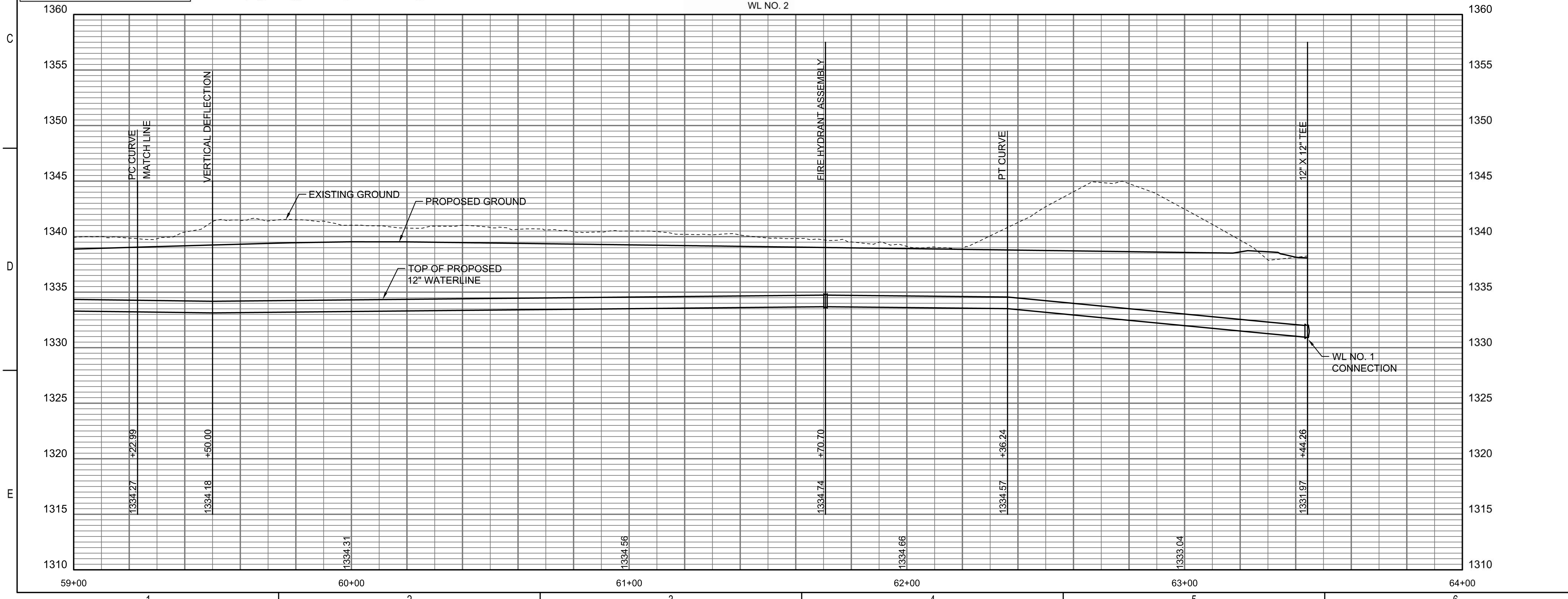
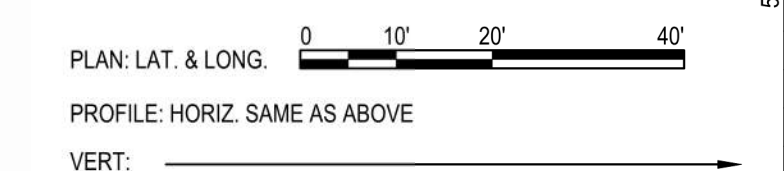
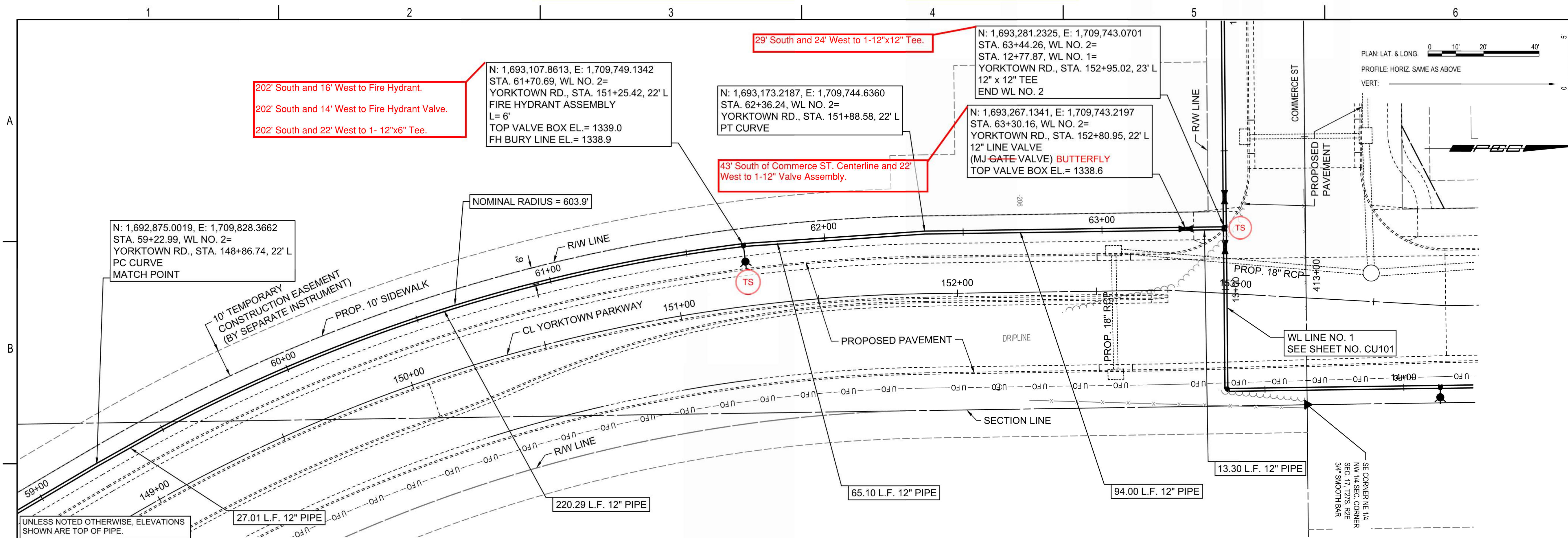
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2

CU116

SAVED 1/31/2025 9:32:00 AM BY CATHY LINK
 PLOTTED 1/31/2025 9:41:26 AM BY CATHY LINK
 U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU116 WATERLINE NO. 2.DWG

Reference Point Centerline of Commerce St. & Yorktown Parkway



WATER DISTRIBUTION SYSTEM
 ALONG
**YORKTOWN PARKWAY AND
 COMMERCE STREET**
 ANDOVER, KANSAS

PROJECT NUMBER 2024-029657 PPW (54030980)

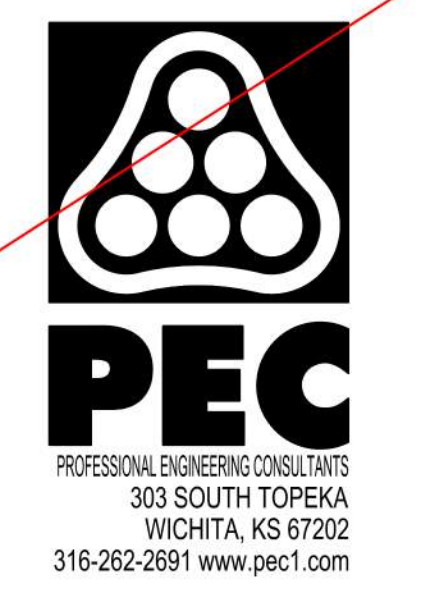
Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 2
CU117

SAVED 1/10/2025 3:37:32 PM BY CATHY LINK
 PLOTTED 1/31/2025 9:41:53 AM BY CATHY LINK
 U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU117 WATERLINE NO. 2.DWG

* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 8" WATERLINE AT WL NO. 3, STA. 10+00.00 TO VERIFY PIPE SIZE, TYPE, FITTINGS, AND HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.

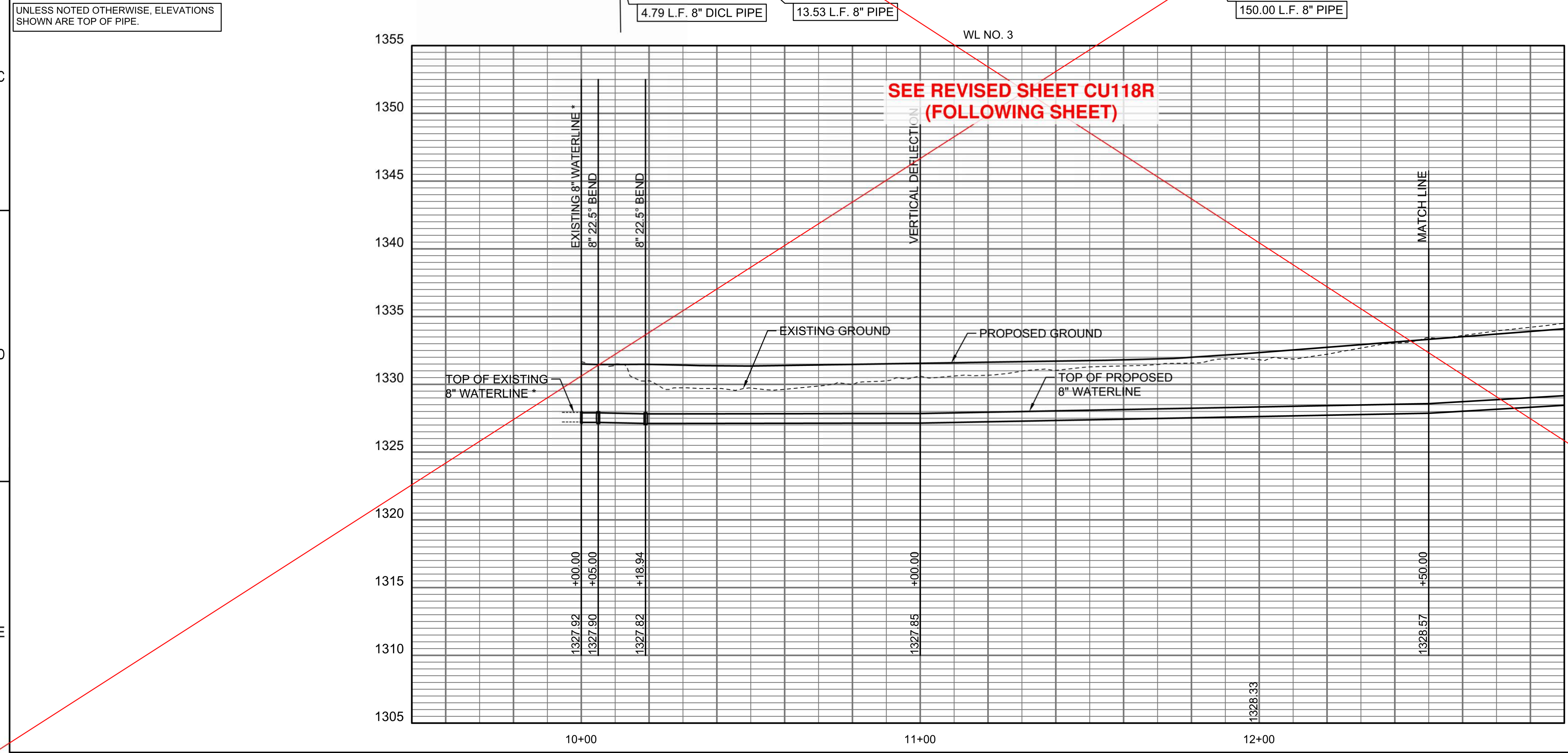
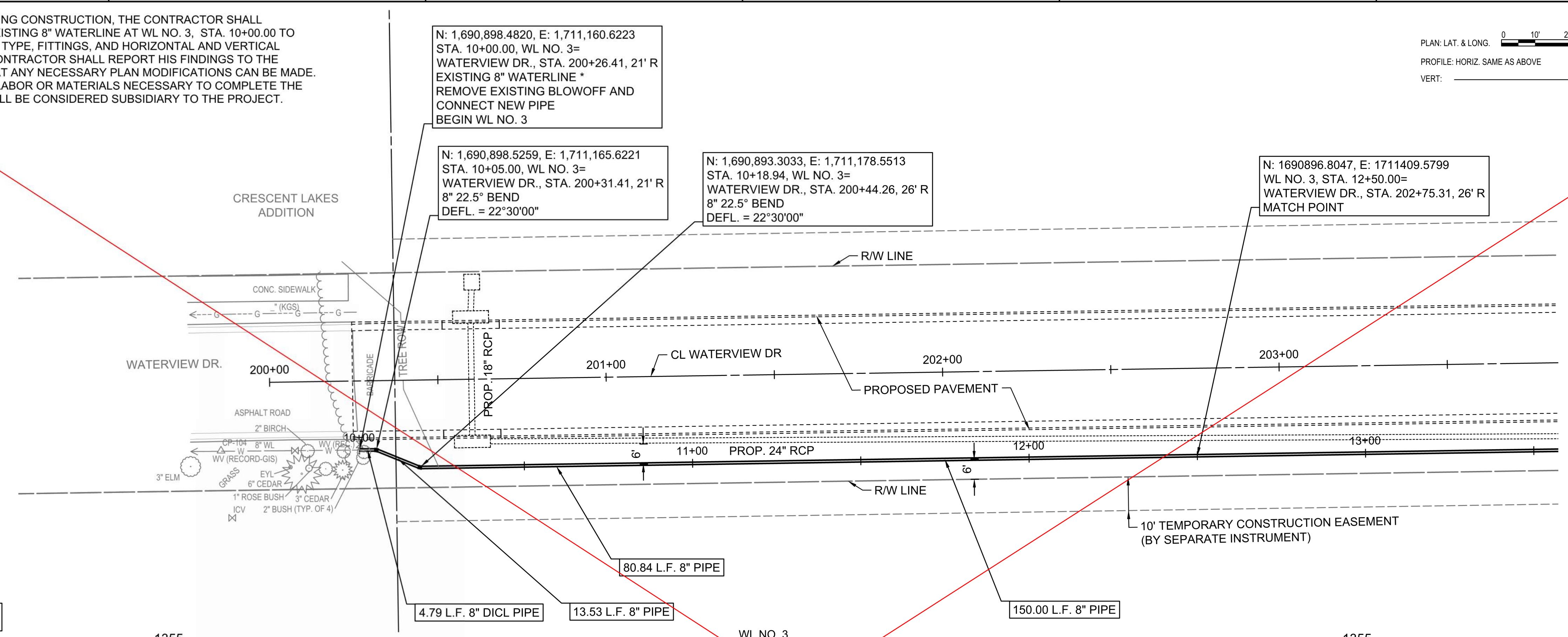
PLAN: LAT. & LONG. 0 10' 20' 40'
 PROFILE: HORIZ. SAME AS ABOVE
 VERT: 0 10' 20' 30'



WATER DISTRIBUTION SYSTEM
 ALONG
**YORKTOWN PARKWAY AND
 COMMERCE STREET**
 ANDOVER, KANSAS
 PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

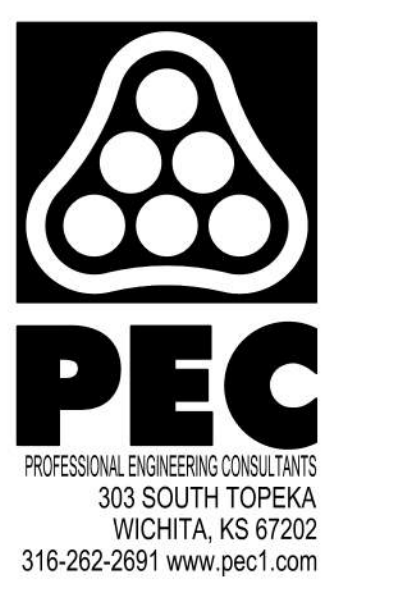
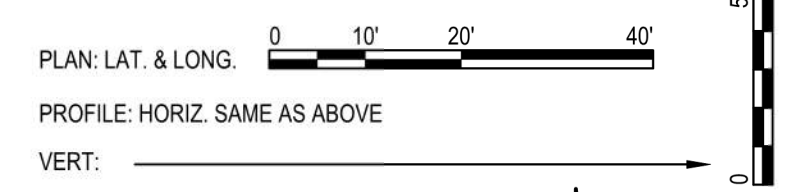
WATERLINE NO. 3
CU118



SAVED 1/31/2025 9:31:23 AM BY CATHY LINK
 PLOTTED 1/31/2025 9:42:18 AM BY CATHY LINK
 U:\WICHITA-CIVIL\2020\207083\020\PECDRAWINGS\WATERLINE\207083-020-CU118 WATERLINE NO. 3.DWG

Reference Point Centerline of Yorktown Parkway & Waterview Dr.

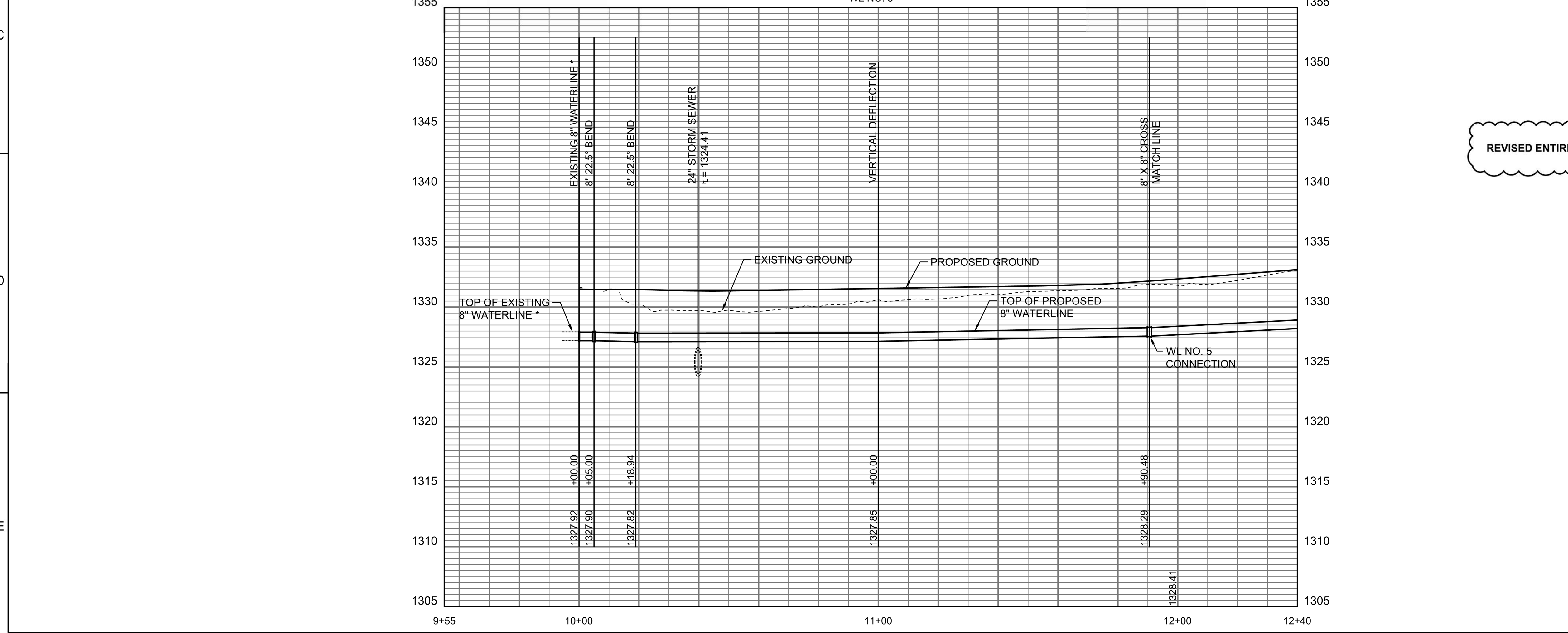
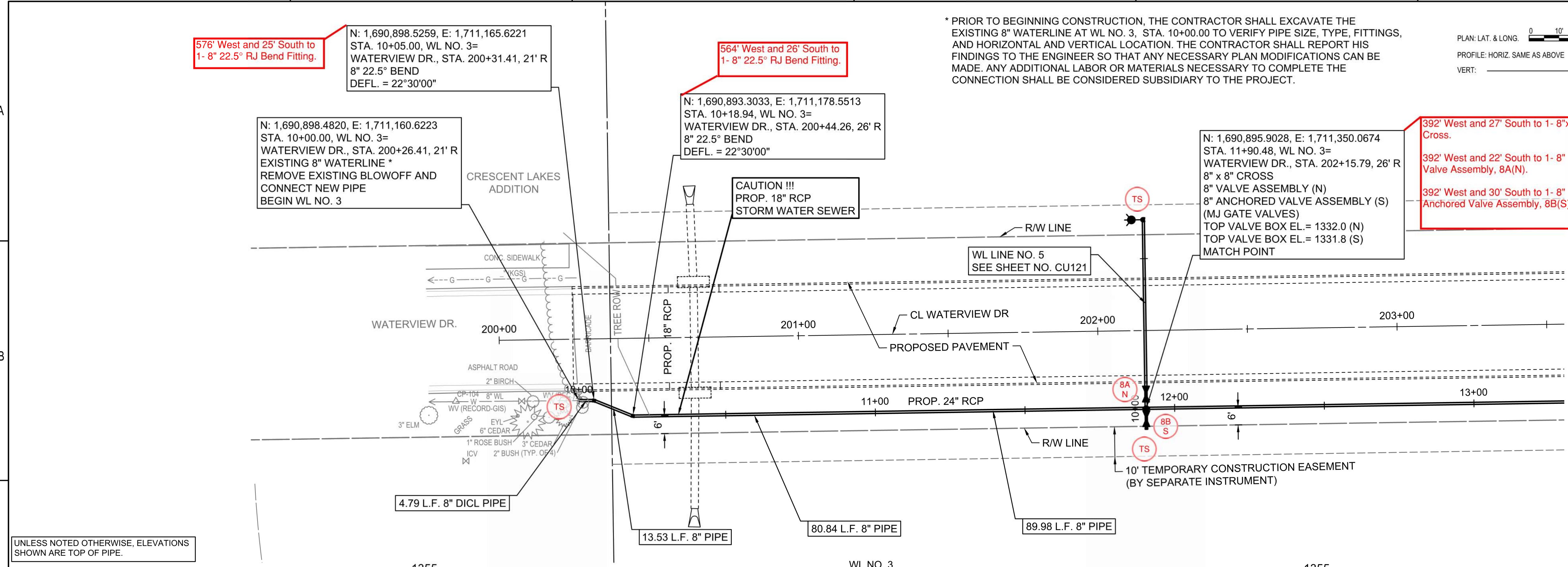
* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 8" WATERLINE AT WL NO. 3, STA. 10+00.00 TO VERIFY PIPE SIZE, TYPE, FITTINGS, AND HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.



WATER DISTRIBUTION SYSTEM
ALONG
**YORKTOWN PARKWAY AND
COMMERCE STREET**
ANDOVER, KANSAS
GARY JANZEN, P.E. WICHITA CITY ENGINEER
PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:		
REVISION		6/03/25
RED LINE - FIELD SET		
U:\Wichita-Civil\2020\207083\020\Inspect		
JOB NO.	207083-020	
DATE	OCTOBER 2024	
PM	GAS	
DESIGNED BY	GAS	
DRAWN BY	AJH	
CHECKED BY	TBK	

WATERLINE NO. 3
CU118R



576' West and 25' South to 1- 8" 22.5° RJ Bend Fitting.
N: 1,690,898.5259, E: 1,711,165.6221
STA. 10+05.00, WL NO. 3=
WATERVIEW DR., STA. 200+31.41, 21' R
8" 22.5° BEND
DEFL. = 22°30'00"

564' West and 26' South to 1- 8" 22.5° RJ Bend Fitting.
N: 1,690,893.3033, E: 1,711,178.5513
STA. 10+18.94, WL NO. 3=
WATERVIEW DR., STA. 200+44.26, 26' R
8" 22.5° BEND
DEFL. = 22°30'00"

N: 1,690,895.9028, E: 1,711,350.0674
STA. 11+90.48, WL NO. 3=
WATERVIEW DR., STA. 202+15.79, 26' R
8" x 8" CROSS
8" VALVE ASSEMBLY (N)
8" ANCHORED VALVE ASSEMBLY (S)
(MJ GATE VALVES)
TOP VALVE BOX EL. = 1332.0 (N)
TOP VALVE BOX EL. = 1331.8 (S)
MATCH POINT

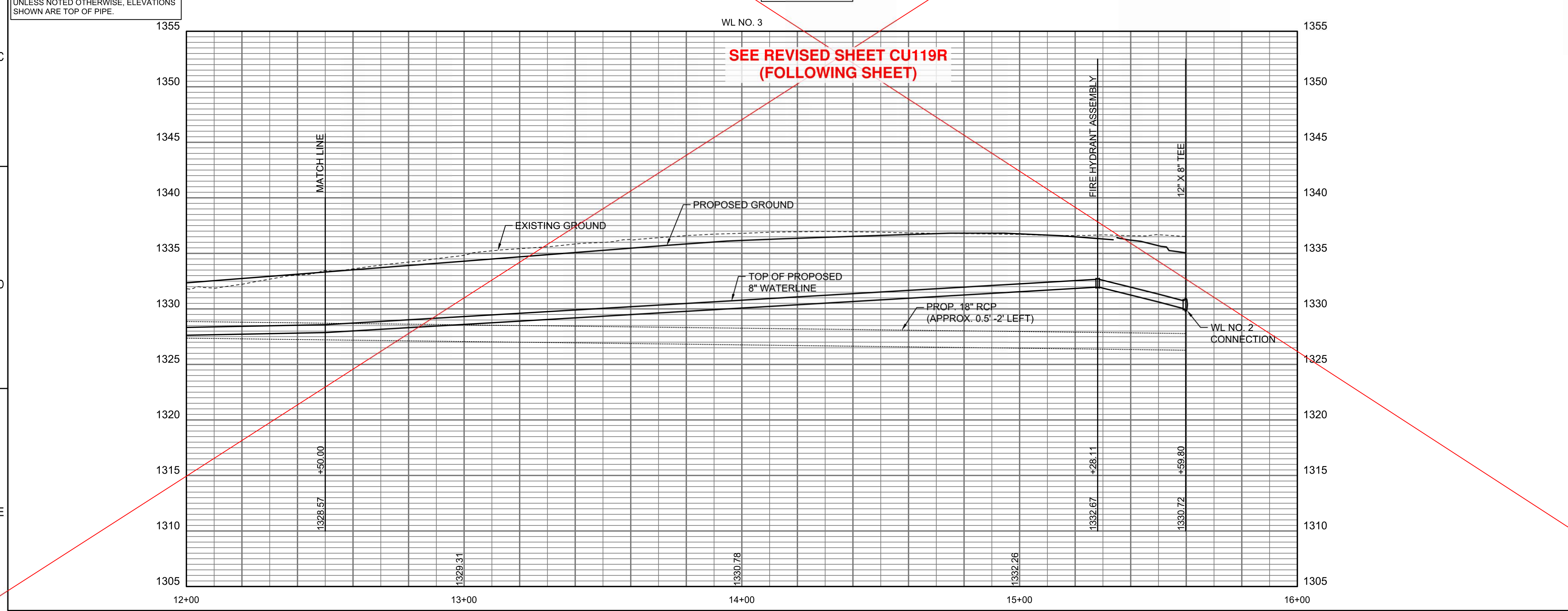
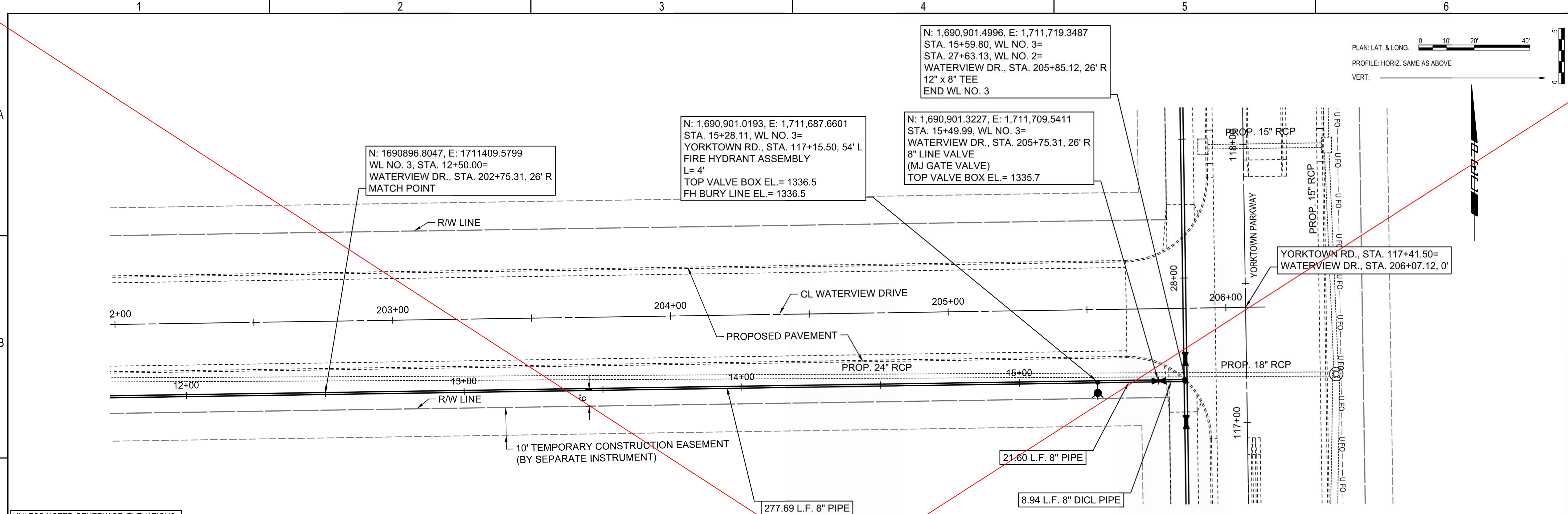
392' West and 27' South to 1- 8"x8" Cross.
392' West and 22' South to 1- 8" Valve Assembly, 8A(N).
392' West and 30' South to 1- 8" Anchored Valve Assembly, 8B(S).

UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.

REVISED ENTIRE SHEET

SAVED 6/3/2025 1:32:26 PM BY CATHY LINK
PLOTTED 6/3/2025 5:44:56 PM BY CATHY LINK
U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU118 WATERLINE NO. 3.DWG

SAVED 1/19/2025 11:49:51 AM BY CATHY LINK
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 U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU119 WATERLINE NO. 3.DWG



UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.

SEE REVISED SHEET CU119R (FOLLOWING SHEET)

PLAN: LAT. & LONG. 0 10' 20' 40'
 PROFILE: HORIZ. SAME AS ABOVE
 VERT: 0 5'

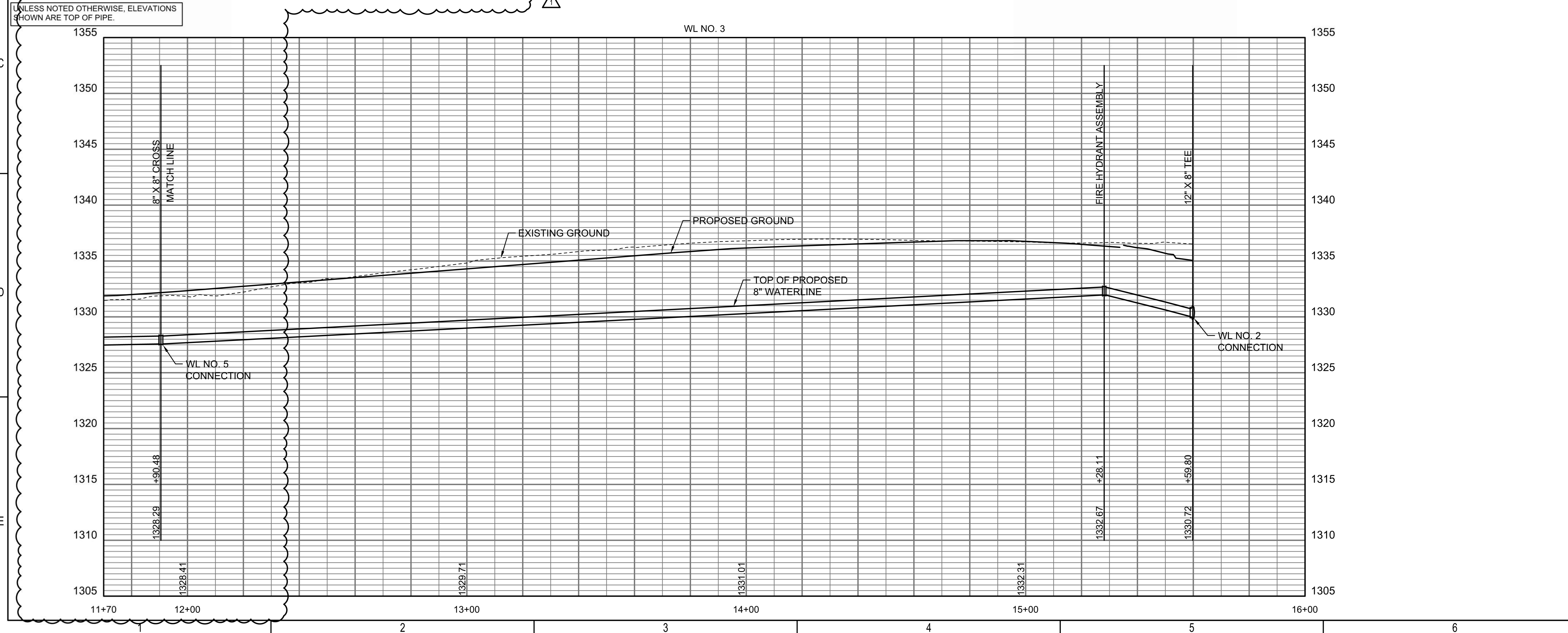
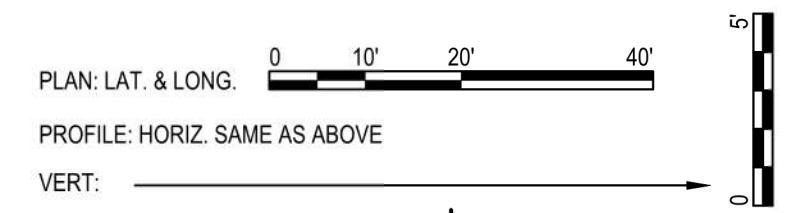
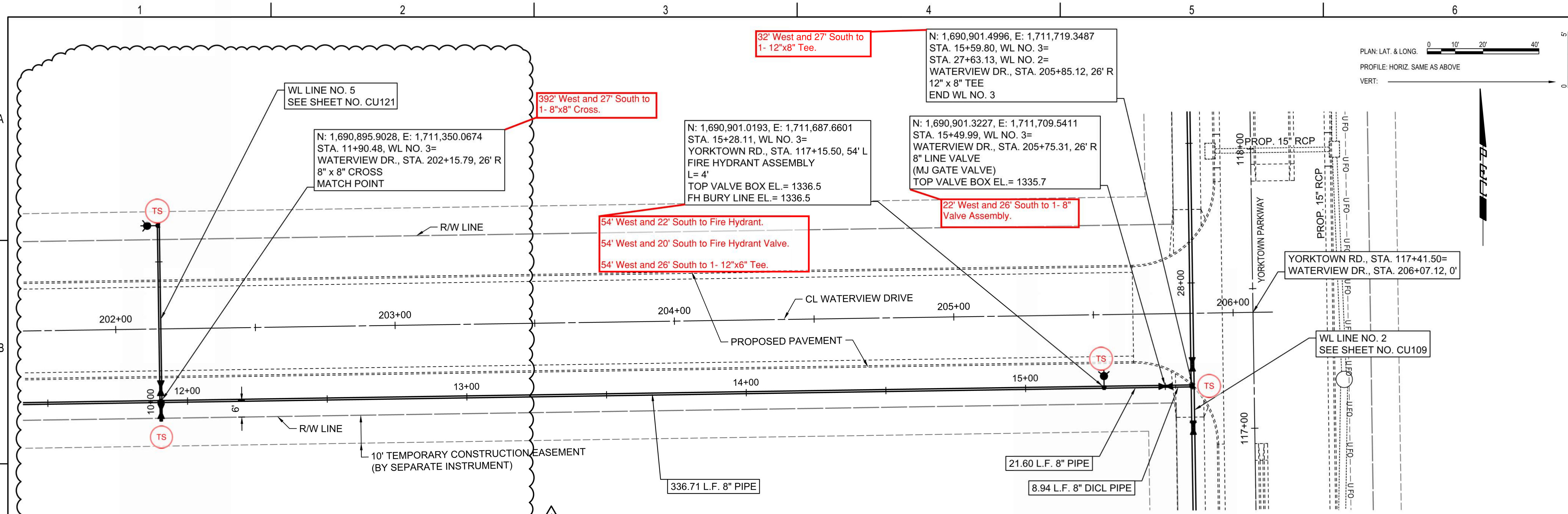


WATER DISTRIBUTION SYSTEM
 ALONG
**YORKTOWN PARKWAY AND
 COMMERCE STREET**
 ANDOVER, KANSAS
 PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	
	RED LINE - FIELD SET
	U:\Wichita-Civil\2020\207083\020\Inspect
JOB NO.	
DATE	
PM	GAS
DESIGNED BY	AJH
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 3
CU119

Reference Point Centerline of Yorktown Parkway & Waterview Dr.



UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.



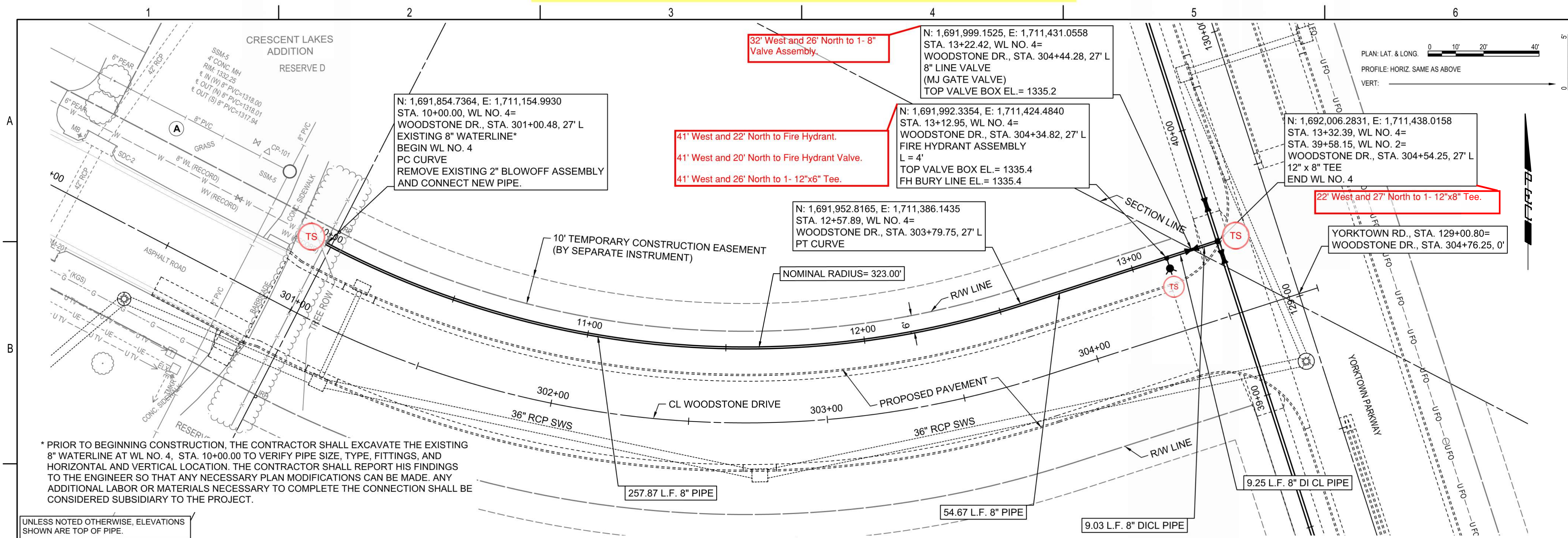
WATER DISTRIBUTION SYSTEM
 ALONG
**YORKTOWN PARKWAY AND
 COMMERCE STREET**
 ANDOVER, KANSAS
 GARY JANZEN, P.E. WICHITA CITY ENGINEER
 PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:		
REVISION		6/03/25
RED LINE - FIELD SET		
U:\Wichita-Civil\2020\207083\020\Inspect		
JOB NO.	207083-020	
DATE	OCTOBER 2024	
PM	GAS	
DESIGNED BY	GAS	
DRAWN BY	AJH	
CHECKED BY	TBK	

WATERLINE NO. 3
CU119R

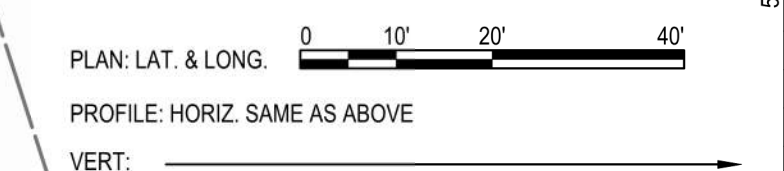
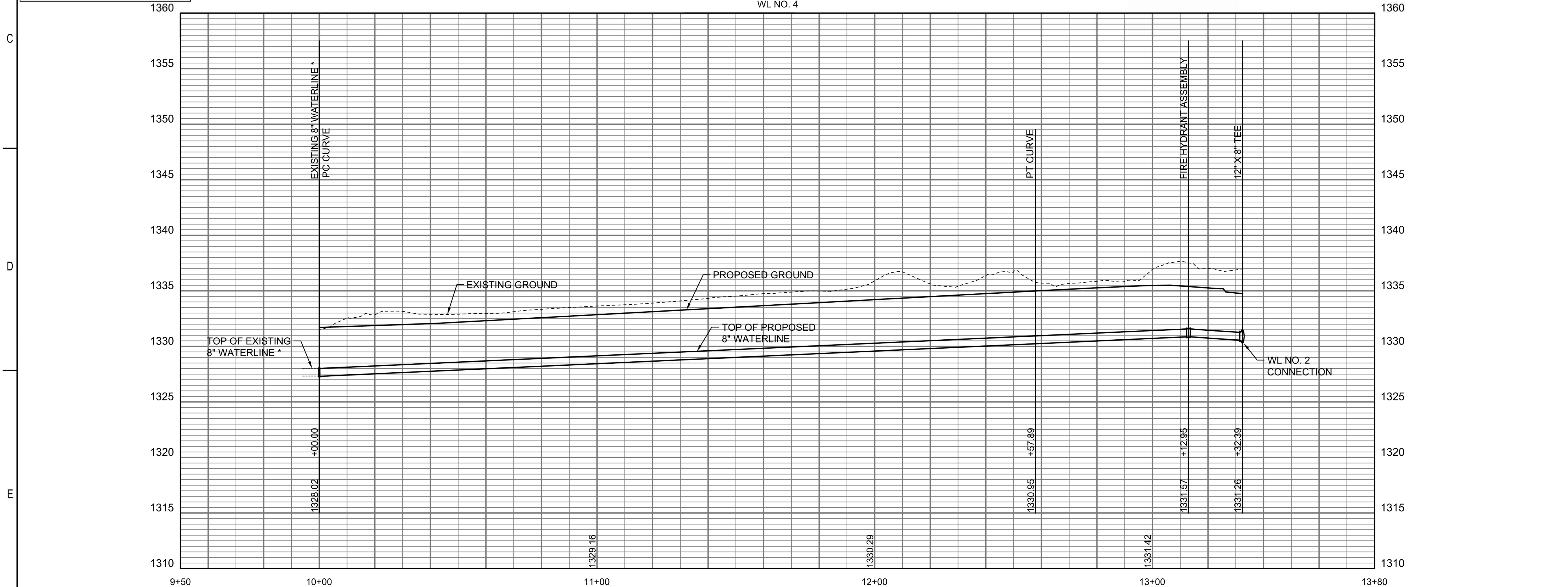
SAVED 6/3/2025 1:33:00 PM BY CATHY LINK
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 U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU119 WATERLINE NO. 3.DWG

Reference Point Centerline of Yorktown Parkway & Woodstone Dr.



* PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE EXISTING 8" WATERLINE AT WL NO. 4, STA. 10+00.00 TO VERIFY PIPE SIZE, TYPE, FITTINGS, AND HORIZONTAL AND VERTICAL LOCATION. THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO THAT ANY NECESSARY PLAN MODIFICATIONS CAN BE MADE. ANY ADDITIONAL LABOR OR MATERIALS NECESSARY TO COMPLETE THE CONNECTION SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT.

UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.



WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS

PROJECT NUMBER 2024-029657 PPW (54030980)

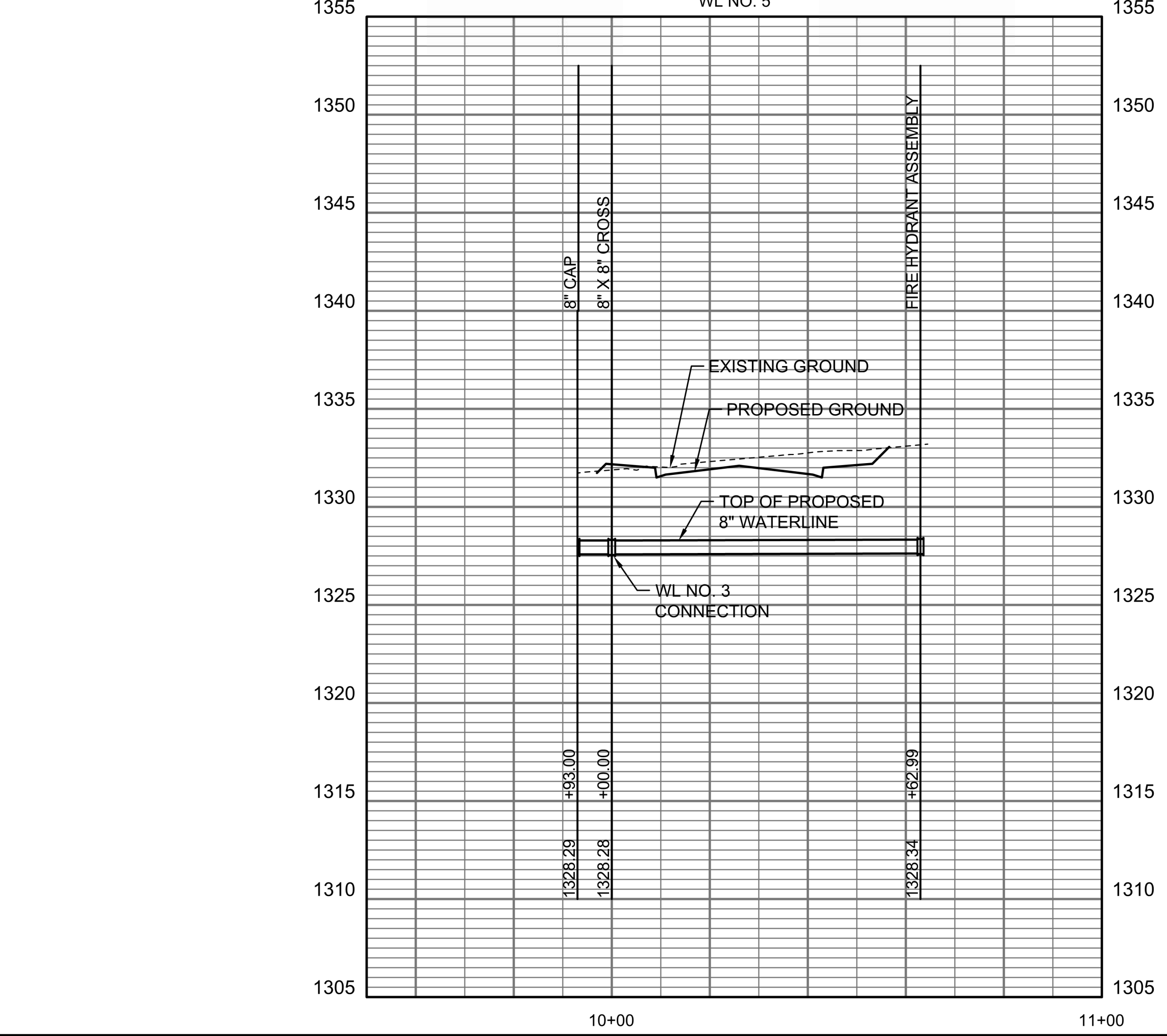
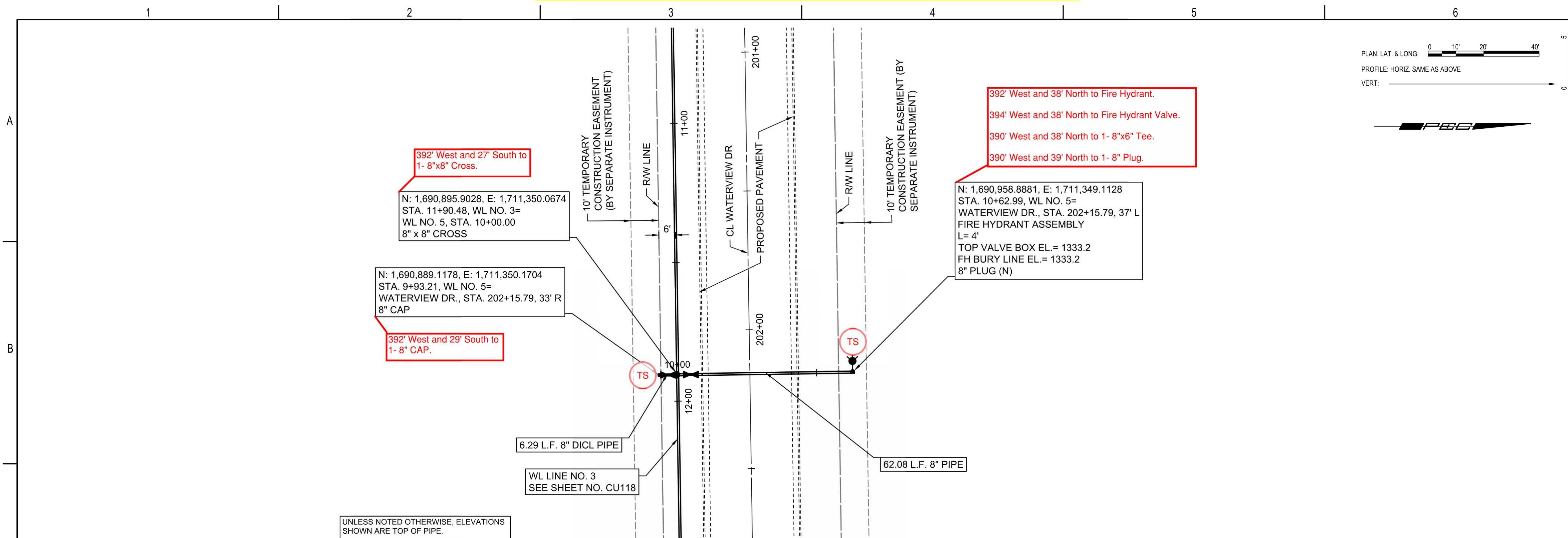
Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	

JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 4
CU120

SAVED 1/31/2025 9:48:51 AM BY CATHY LINK
 PLOTTED 1/31/2025 9:49:11 AM BY CATHY LINK
 U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU120 WATERLINE NO. 4.DWG

Reference Point Centerline of Yorktown Parkway & Waterview Dr.



ADDED NEW SHEET

WATER DISTRIBUTION SYSTEM
ALONG
YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS

GARY JANZEN, P.E. WICHITA CITY ENGINEER
PROJECT NUMBER 2024-029657 PPW (54030980)

Issue:	REVISION	DATE
▲		6/03/25

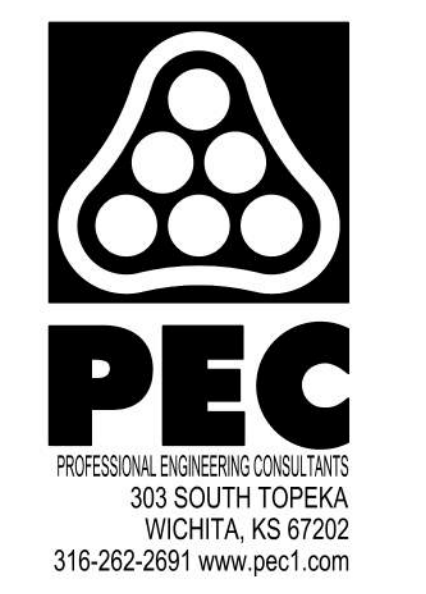
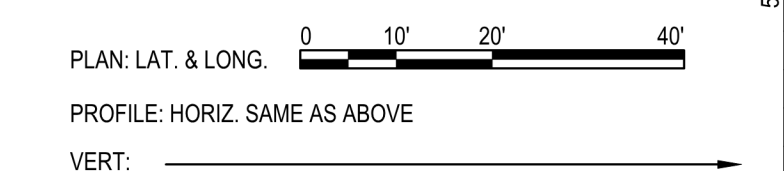
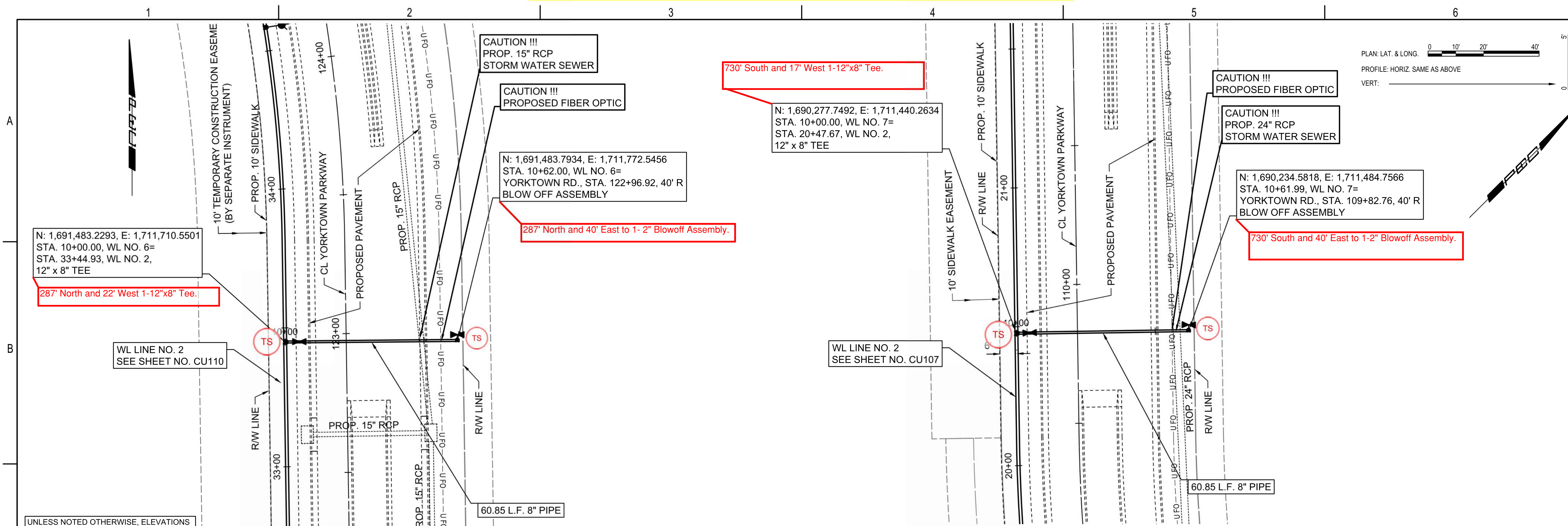
JOB NO.	207083-020
DATE	OCTOBER 2024
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 5

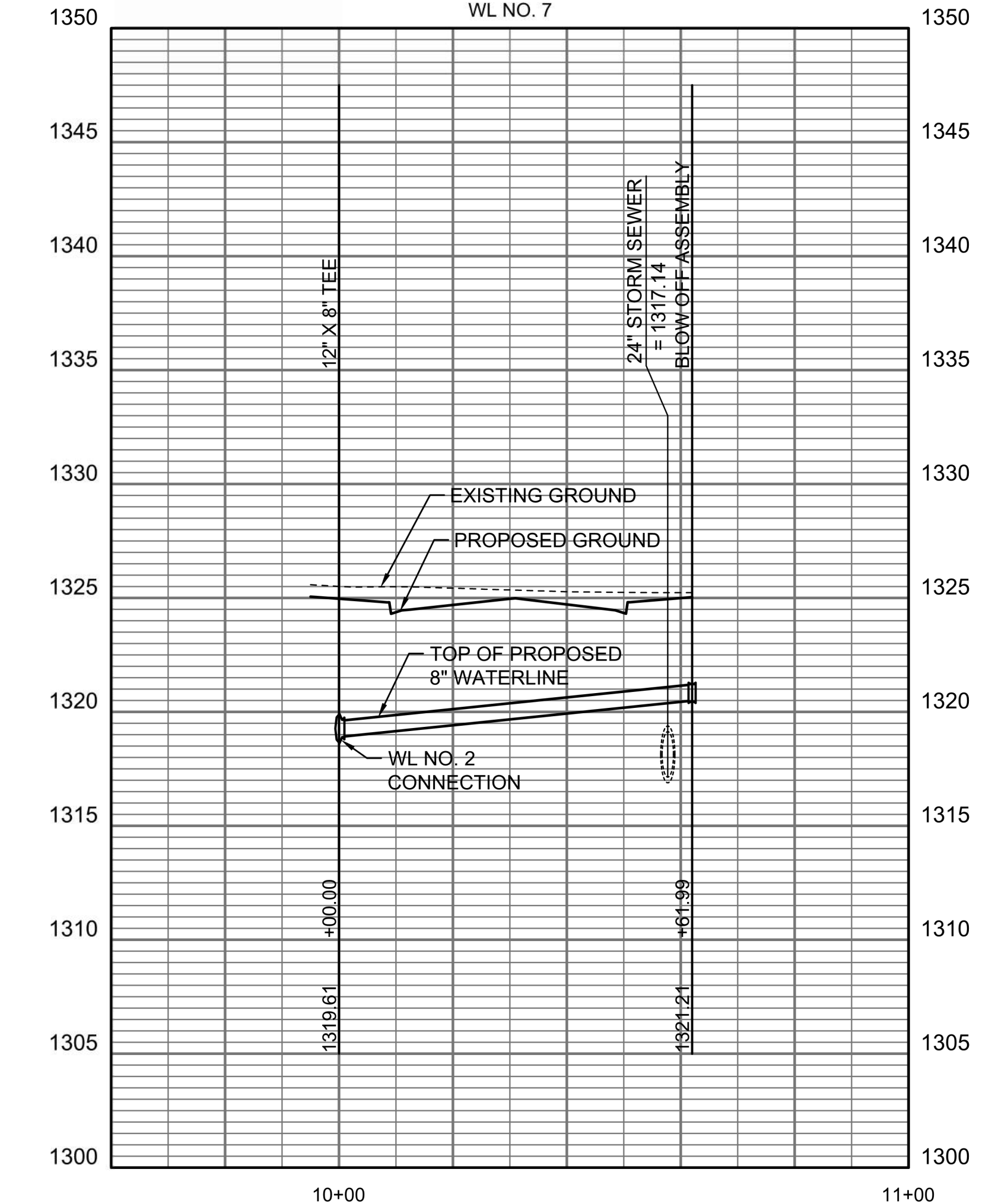
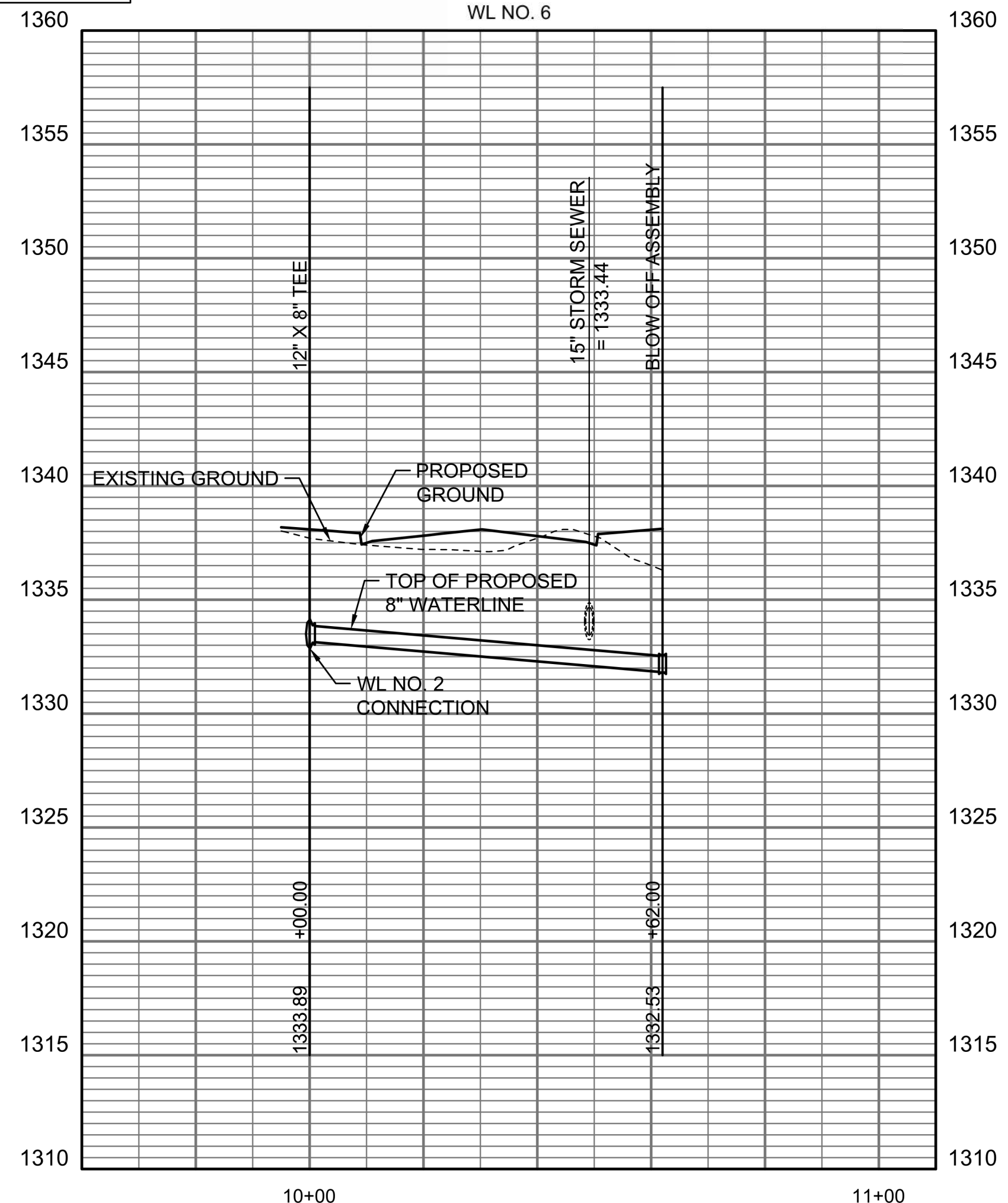
CU121

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U:\WICHITA-CIVIL\2020\207083\020\PEC\DRAWINGS\WATERLINE\207083-020-CU121 WATERLINE NO. 5.DWG

Reference Point Centerline of Waterview Dr. & Yorktown Parkway



UNLESS NOTED OTHERWISE, ELEVATIONS SHOWN ARE TOP OF PIPE.



ADDED NEW SHEET

SAVED 7/16/2025 1:56:33 PM BY CATHY LINK
 PLOTTED 7/16/2025 2:59:43 PM BY CATHY LINK
 U:\WICHITA-CIVIL\2020\207083\20\PEC\DRAWINGS\WATERLINE\207083-020-CU122 WATERLINE NO.6 AND 7.DWG

WATER DISTRIBUTION SYSTEM
 ALONG
**YORKTOWN PARKWAY AND
 COMMERCE STREET**
 ANDOVER, KANSAS
 GARY JANZEN, P.E. WICHITA CITY ENGINEER
 PROJECT NUMBER 2024-029657 PPW (54030980)

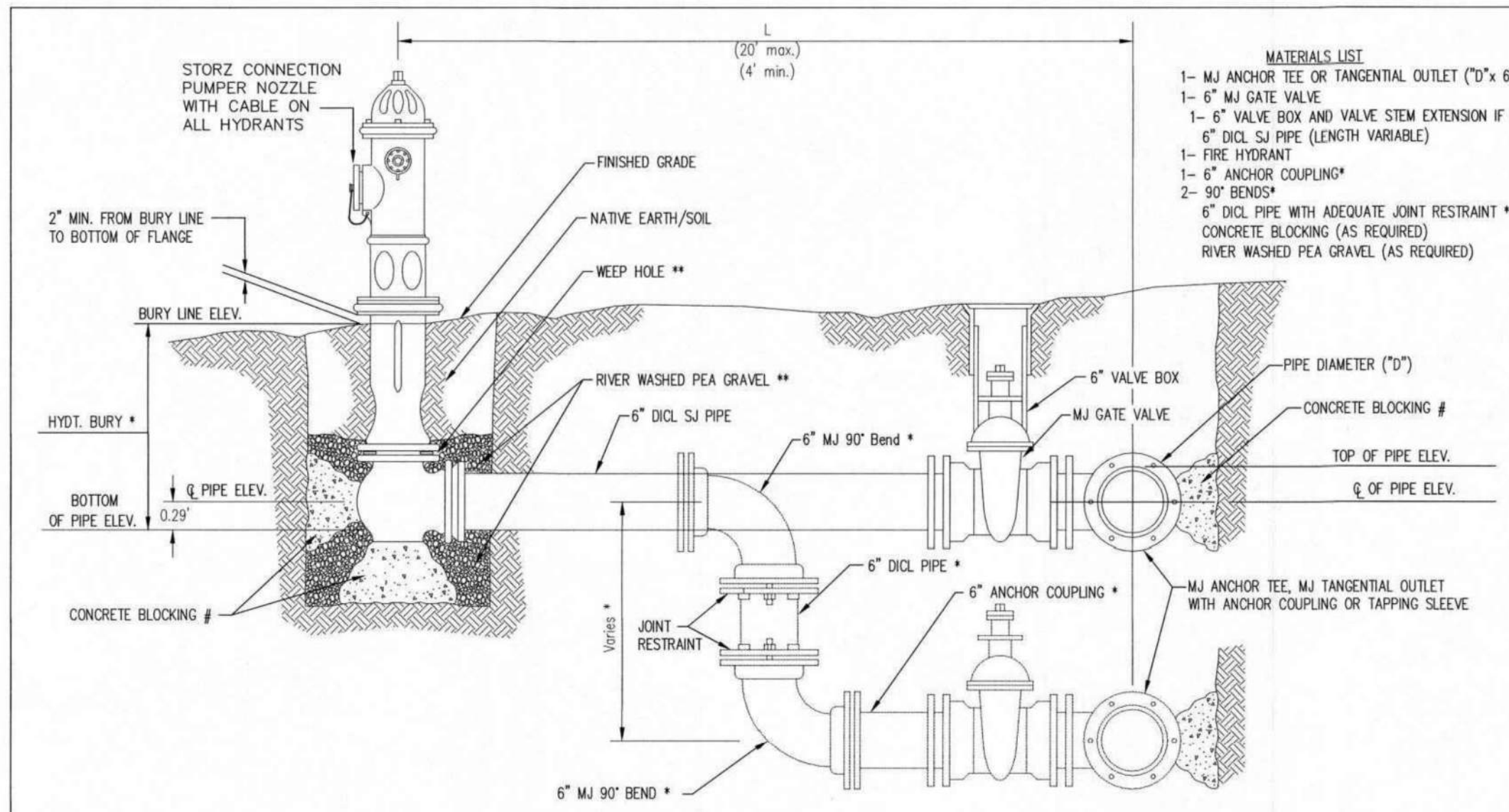
Issue:	REVISION	6/03/25
▲		

JOB NO.	207083-020
DATE	OCTOBER 2024
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

WATERLINE NO. 6 AND NO. 7

CU122

FIRE HYDRANTS REQUIRED				
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
WL 1, 14+13.12	1338.0	1333.84	5.0'	
WL 1, 18+16.11	1335.2	1331.04	5.0'	
WL 2, 14+32.50	1316.8	1312.64	5.0'	
WL 2, 18+79.79	1319.7	1315.54	5.0'	
WL 2, 22+29.49	1326.7	1322.54	5.0'	
WL 2, 30+58.52	1338.2	1334.04	5.0'	
WL 2, 34+58.50	1338.2	1334.04	5.0'	
WL 2, 42+37.52	1334.8	1330.64	5.0'	
WL 2, 46+63.18	1336.1	1331.94	5.0'	
WL 2, 50+63.20	1337.0	1332.84	5.0'	
WL 2, 54+70.90	1337.5	1333.34	5.0'	
WL 2, 58+72.90	1338.6	1334.44	5.0'	
WL 2, 61+70.69	1338.9	1334.74	5.0'	
WL 3, 15+28.11	1336.5	1332.67	4.5'	
WL 4, 13+12.95	1335.4	1331.57	4.5'	

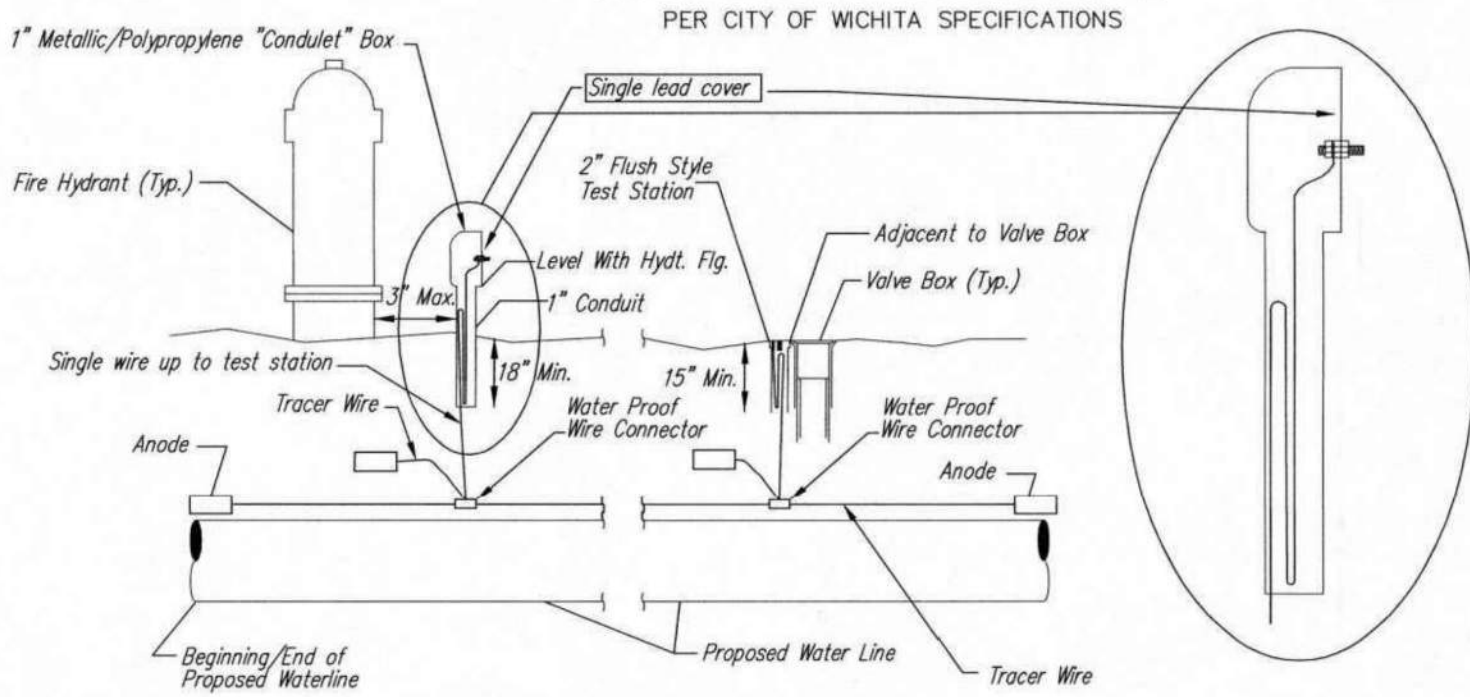


- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (10" x 6")
 - 1- 6" MJ GATE VALVE
 - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6" DI CL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6" ANCHOR COUPLING*
 - 2- 90° BENDS*
 - 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT *
 - 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" DI CL 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.



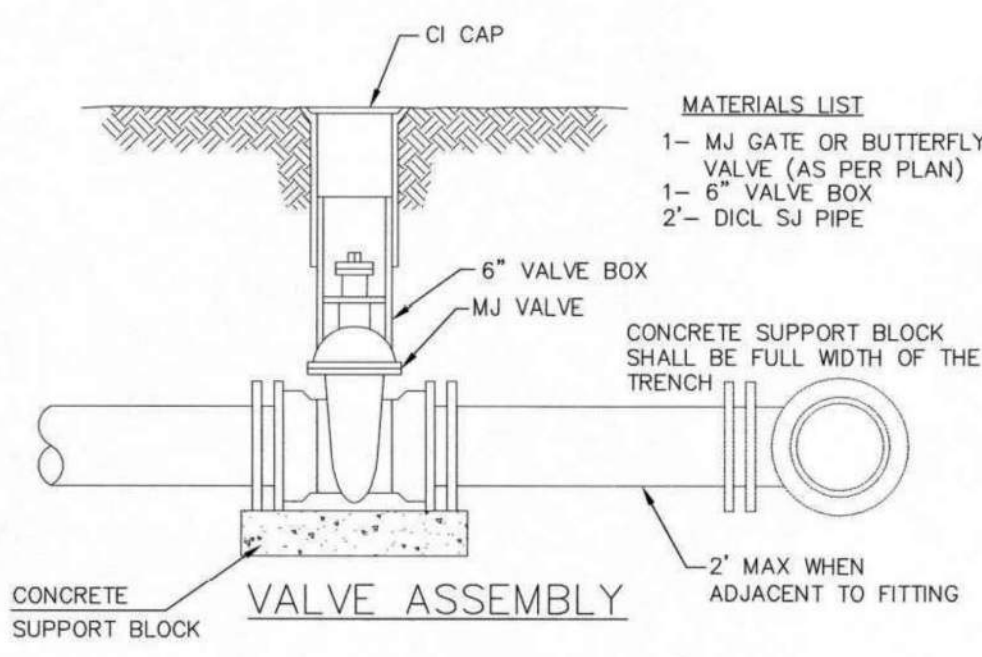
TRACER WIRE
Conductive type pipe locator/tracer wire shall be installed to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. A waterproof connector shall be used at splice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

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

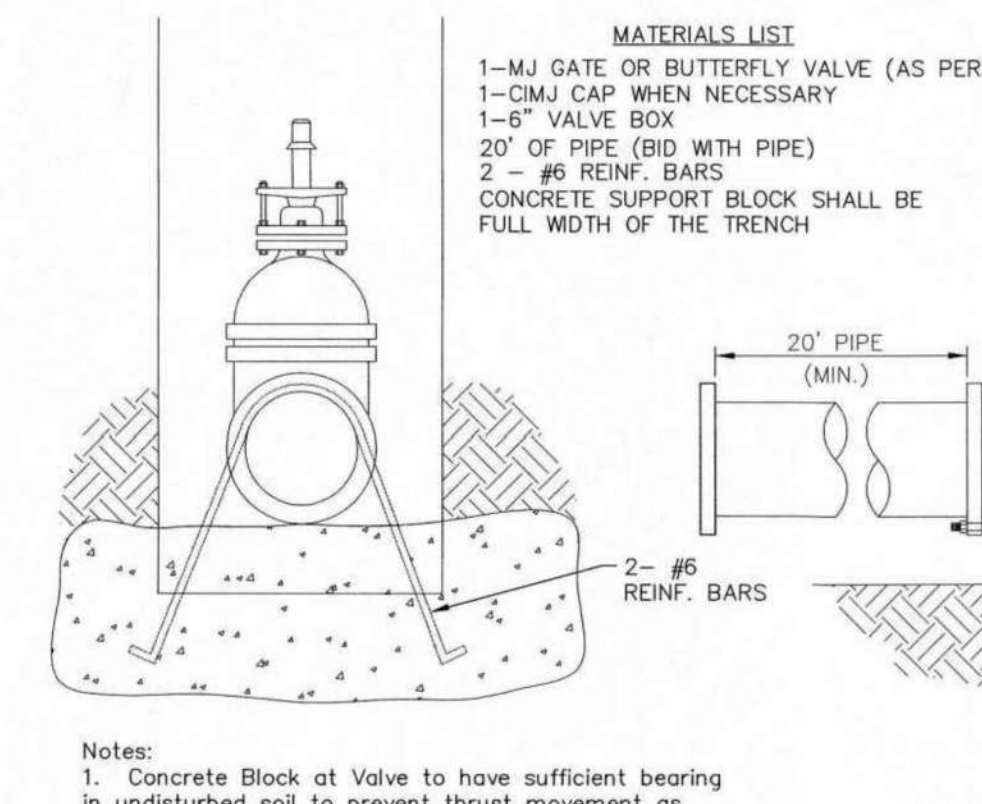
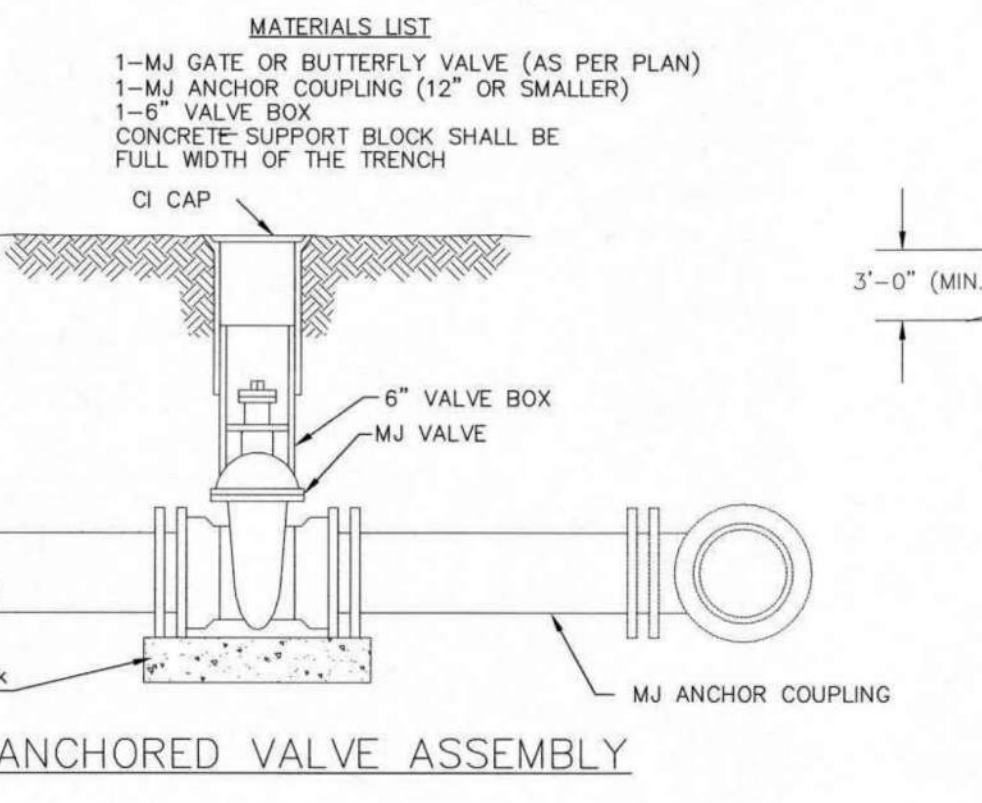
TEST STATIONS
The test station for fire hydrant application shall be a 1" conduit style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "WATER" stamped or molded into the lid. The test station for valve applications shall be a 2" flush style test station with wire connector on lid. Model # T2PH7B1LP Handley Industries or CD14*IP 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 installed 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- DI CL SJ PIPE

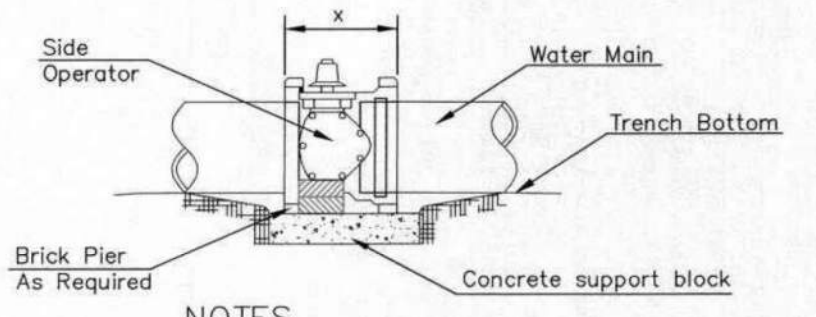


Notes:

- 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.
- The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
- 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 #/sq2
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

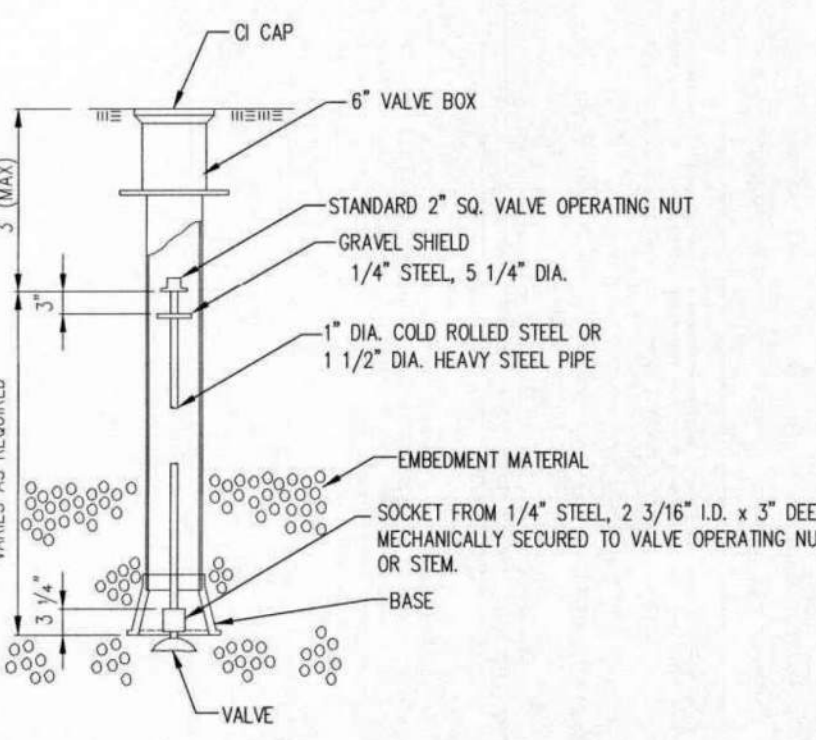
ANCHORED VALVE ASSEMBLY, SPECIAL



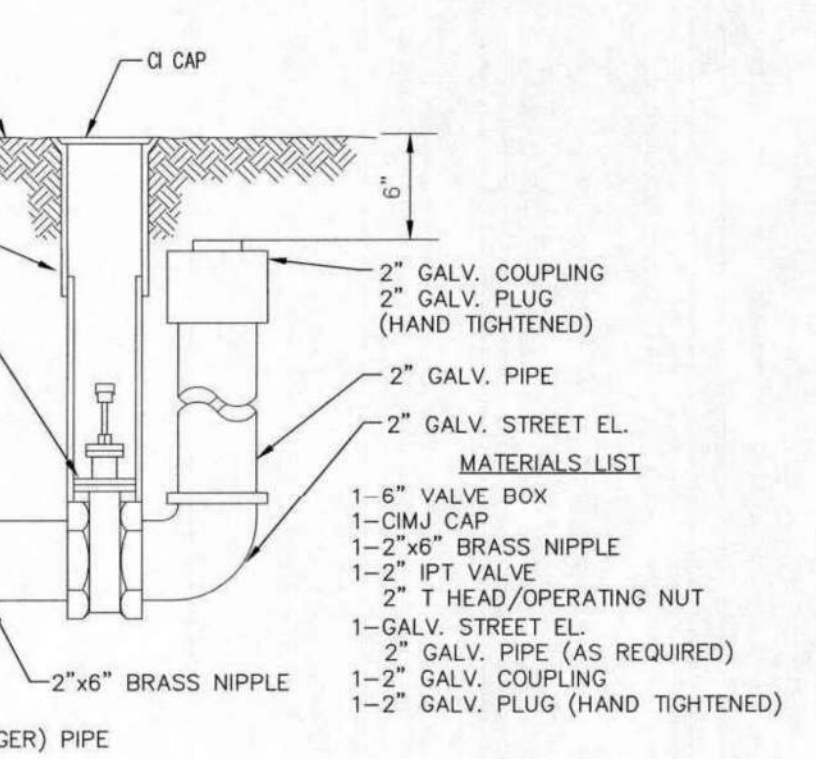
NOTES

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

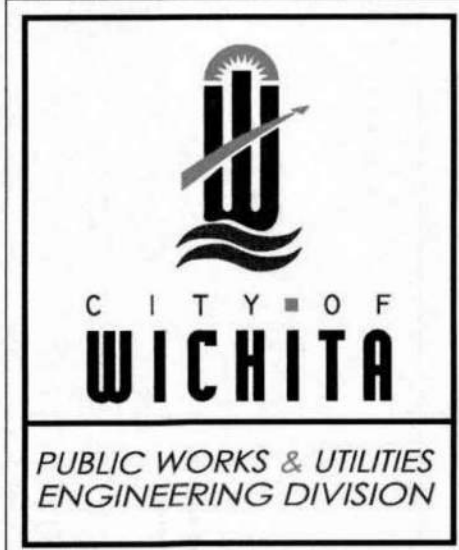
CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



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



2" BLOWOFF ASSEMBLY



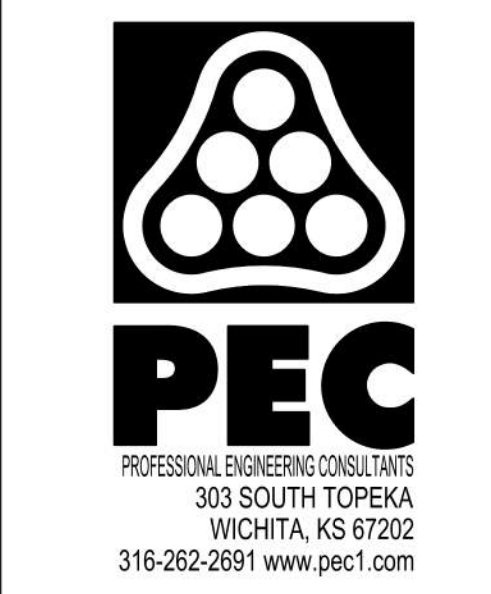
STANDARD WATER ASSEMBLY DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER: OCA NUMBER: DATE:

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

SHEET



WATER DISTRIBUTION SYSTEM
ALONG
**YORKTOWN PARKWAY AND
COMMERCE STREET
ANDOVER, KANSAS**

Issue:	RED LINE - FIELD SET
U:\Wichita-Civil\2020\207083\020\Inspect	

JOB NO.	
DATE	
PM	GAS
DESIGNED BY	GAS
DRAWN BY	AJH
CHECKED BY	TBK

STANDARD WATER ASSEMBLY DETAIL

CU501

PROJECT NUMBER 2024-029657 PPW (54030980)

SAVED 1/9/2025 4:55:43 PM BY CATHY LINK
PLOTTED 1/31/2025 9:43:20 AM BY CATHY LINK
U:\WICHITA-CIVIL\2020\207083\020\DRAWINGS\WATERLINE\207083-020-CU501-STANDARD WATER SERVICE
DETAIL.DWG