

WATER DISTRIBUTION SYSTEM IMPROVEMENTS
 TO SERVE

**THE HERITAGE FIRST ADDITION
 PHASE 1B**

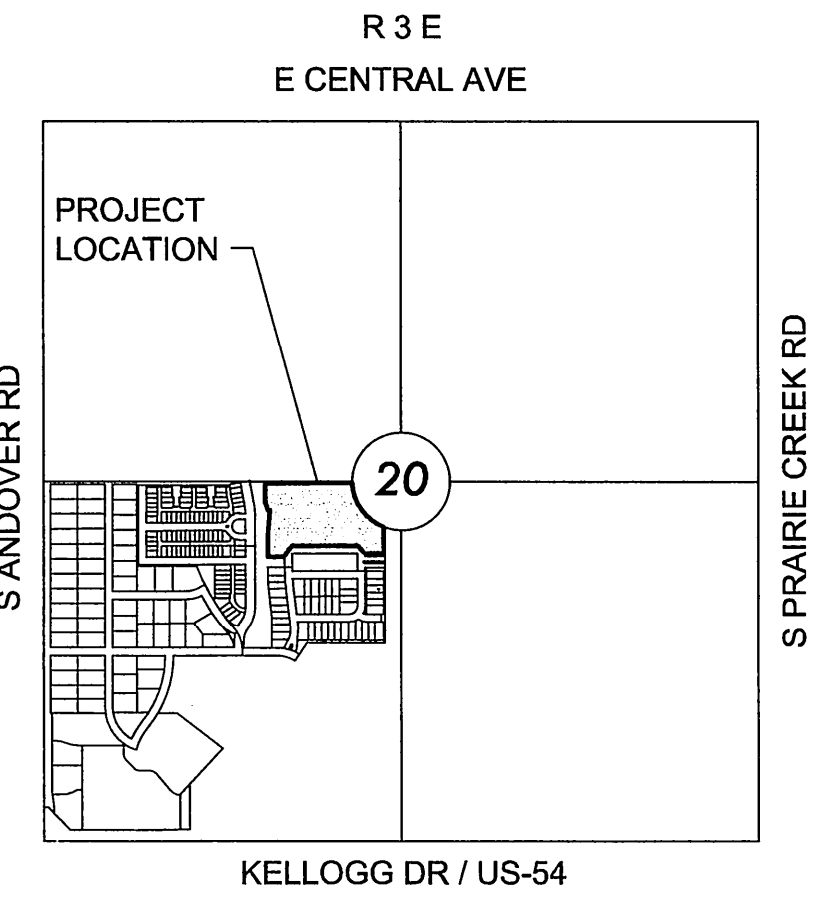
THE CITY OF ANDOVER, KANSAS

CITY OF WICHITA PRIVATE PROJECT NO. PPW-2019-026188

OCA NO. 183021

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 1-800-248-8484
 CITY OF WICHITA TRAFFIC 1-316-268-4034
 CITY OF ANDOVER (LES MANGUS) 1-316-733-2621
 CITY OF BENTON 1-316-778-1625
 COX COMMUNICATIONS 1-888-249-3530
 KANSAS GAS SERVICE 1-888-482-4960
 EVERGY 1-800-383-1183
- 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 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 DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
- THE ENGINEERING DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES OR FIRE HYDRANTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AT HIS OWN EXPENSE. VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE INSPECTING ENGINEER AND TOM MASON AT 316-268-4574 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION, STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IF TRAFFIC WILL BE IMPACTED BY CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY. 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.
- 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.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPEN OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
- OPENING AND CLOSING OF WATER VALVES SHALL BE DONE SLOWLY TO PREVENT DAMAGE TO THE WATER DISTRIBUTIONS SYSTEM FROM WATER HAMMER. ALL VALVES CLOSED BY THE CONTRACTOR MUST BE REOPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
- 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 CMI LONG SLEEVE OR MULTIPLE JOINTS.
- ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
- VALVES 12 INCH AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION, 48 HOURS OF ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-291-8921.
- ALL WET TAPS SHALL BE INSTALLED BY THE CITY OF WICHITA. THE CONTRACTOR WILL REIMBURSE THE CITY FOR TAPPING FEES.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE AND SUPPORT EXISTING UTILITIES THROUGH CONSTRUCTION AS APPROVED BY THE UTILITY OWNER AND THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- WORK DONE UNDER THIS PROJECT IS SUBJECT TO THE CITY OF WICHITA REQUIREMENTS FOR "CONSTRUCTION OF INFRASTRUCTURE IMPROVEMENTS BY PRIVATE CONTRACT". THE CONTRACTOR SHALL BE FAMILIAR AND COMPLY WITH ALL OF THE REQUIREMENTS, INCLUDING 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.
- DEVELOPER FOR THIS PROJECT IS:
 PERFECTION SIGNATURE PROPERTIES, LLC
 11828 W. CENTRAL, SUITE 124
 WICHITA, KS 67212
 SCOTT LEHNER/JASON RONK
 (316)729-1900



VICINITY MAP
 No Scale

INDEX TO DRAWINGS

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01	TITLE SHEET
02	DETAILS
03	LINE 4
04	LINE 5
05-07	LINE 6
08	LINE 7 & LINE 8
09	EROSION CONTROL PLAN
10-14	BMP SHEETS
15	FINAL PLAT

BENCHMARKS

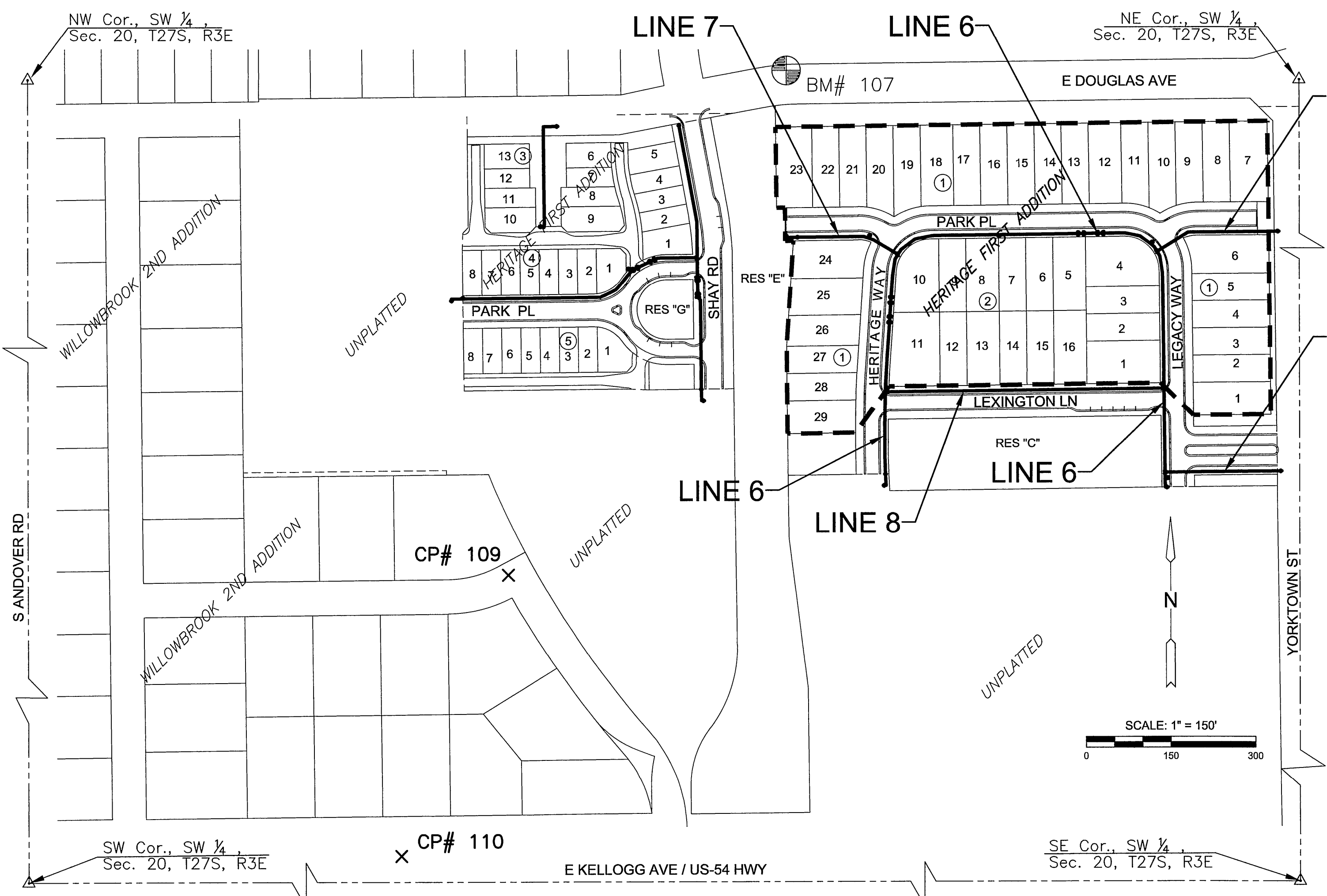
DATUM:
 THE HORIZONTAL DATUM IS BASED ON THE KANSAS COORDINATE SYSTEM OF 1983(2011), SOUTH ZONE. COORDINATES SHOWN HAVE BEEN MODIFIED TO THE GROUND USING A COMBINED ADJUSTMENT FACTOR OF 1.0001200144.

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

CONTROL POINTS:

PT. NO.	NORTH	EAST	ELEV.
100	1684322.498	1708469.854	1320.70
CHISELED "X"			
101	1684312.913	1709289.776	1324.04
5/8" REBAR W/ RED MKEC CONTROL PT. ID CAP			
102	1684377.549	1710040.272	1333.87
1/2" REBAR W/ MKEC CLS #39 ID CAP			
103	1684372.086	1710629.812	1321.95
5/8" REBAR W/ 2" ALUMINUM MKEC CONTROL PT. ID CAP			
104	1685746.458	1710636.549	1326.89
5/8" REBAR W/ 2" ALUMINUM MKEC CONTROL PT. ID CAP			
105	1685721.106	1710053.812	1331.27
5/8" REBAR W/ RED MKEC CONTROL PT. ID CAP			
106	1686923.543	1710227.901	1330.81
CHISELED "X"			
107	1686951.277	1709097.377	1333.84
BM/CHISELED "X" ON CHISELED SQUARE			
108	1686847.825	1708129.189	1342.89
BM/CHISELED "X" ON CHISELED SQUARE			
109	1686063.055	1708603.610	1332.7
5/8" REBAR W/ RED MKEC CONTROL PT. ID CAP			
110	1685568.193	1708413.190	1332.11
5/8" REBAR W/ 2" ALUMINUM MKEC CONTROL PT. ID CAP			
111	1685456.427	1709322.102	1326.57
5/8" REBAR W/ RED MKEC CONTROL PT. ID CAP			
112	1684106.979	1708863.676	1321.55
BM CHISELED SQUARE ON S RETURN OF WEST CURB PLAZA STREET SOUTH OF KELLOGG, 10' SOUTH EAST OF LIGHT POLE			

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



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

Engineering: *Nith Holberg* 12.20.19
 Utilities: *Jason Ronk* 12-20-19
 Fire Department: *Jim Nowak* 12/23/19

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.

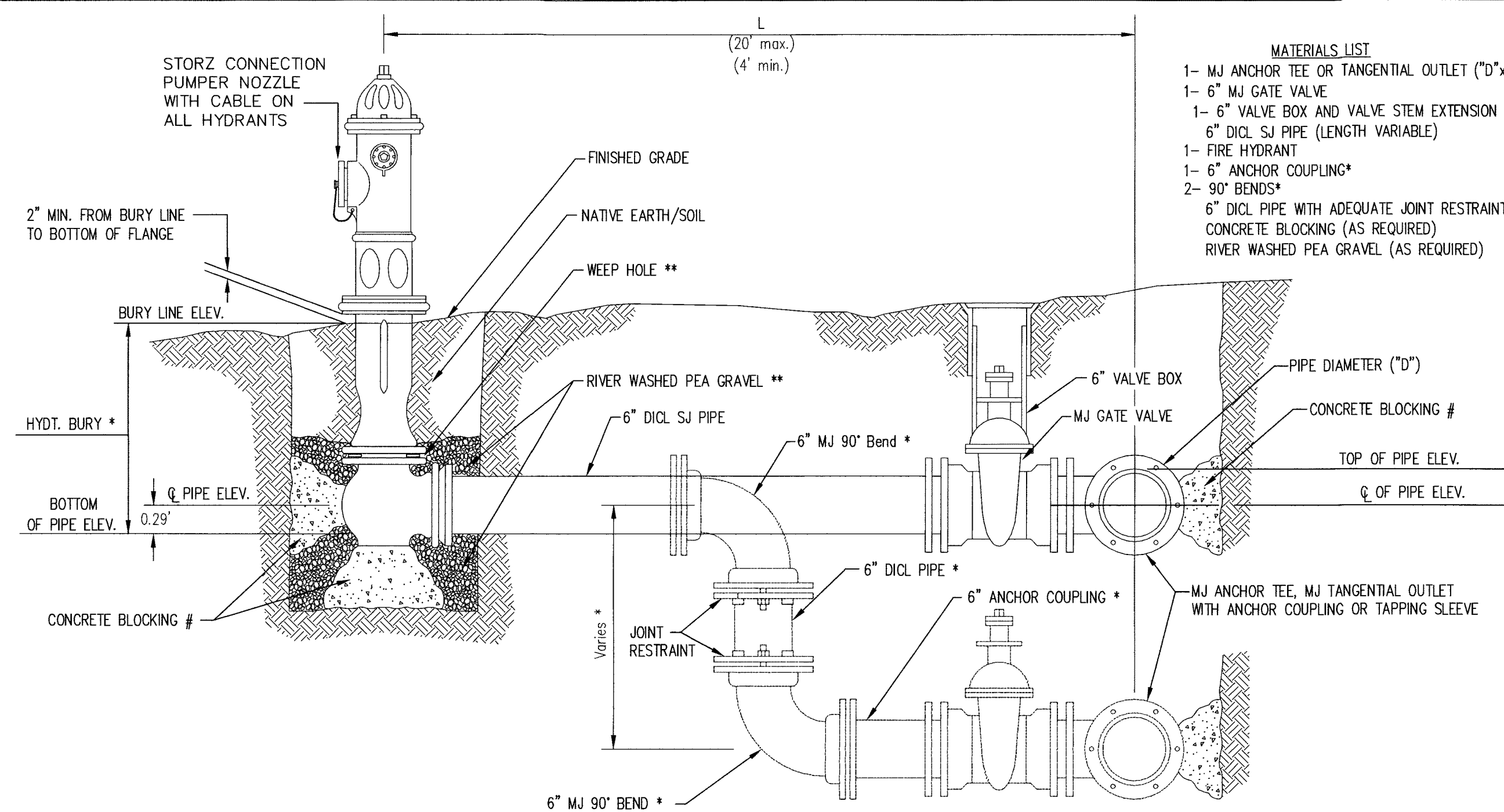


WATER DISTRIBUTION IMPROVEMENTS FOR
**THE HERITAGE FIRST ADDITION
 PHASE 1B**
 ANDOVER, KANSAS

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TITLE SHEET

PROJECT NO.	PPW-2019-026188	
DATE	NOV 2019	
SCALE	1" = 150'	
DESIGNED	DRAWN	CHECKED
NNA	RWB	MAB
1	MISC REVISIONS	12-10-19
0	ISSUED FOR CONST.	11/27/19
NO.	REVISION	DATE
SHEET NO.		
01 OF 15		



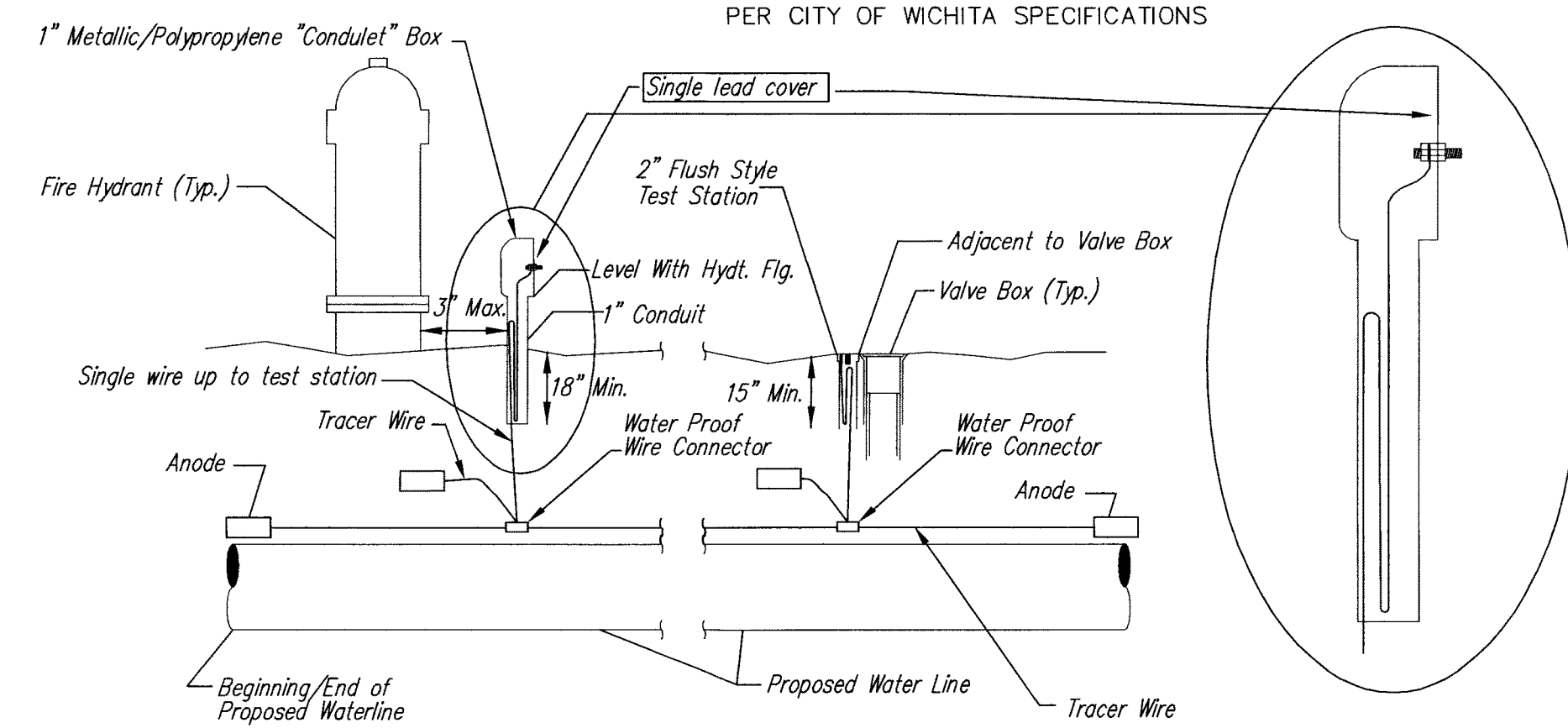
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET ("D"x 6")
 - 1- 6" MJ GATE VALVE
 - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6" DICL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6" ANCHOR COUPLING*
 - 2- 90° BENDS*
 - 6" DICL PIPE WITH ADEQUATE JOINT RESTRAINT *
 - CONCRETE BLOCKING (AS REQUIRED)
 - RIVER WASHED PEA GRAVEL (AS REQUIRED)

* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DICL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS, OR SIMILAR RESTRAINT BETWEEN 90° BENDS TO SECURE ALL FITTINGS DURING TESTING AND OPERATION. THE CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS SHEET.

** CAUTION: WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AROUND EACH WEEP HOLE.

CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

FIRE HYDRANT ASSEMBLY
PER CITY OF WICHITA SPECIFICATIONS



TRACER WIRE
Conductive type pipe locator/tracer wire shall be 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.

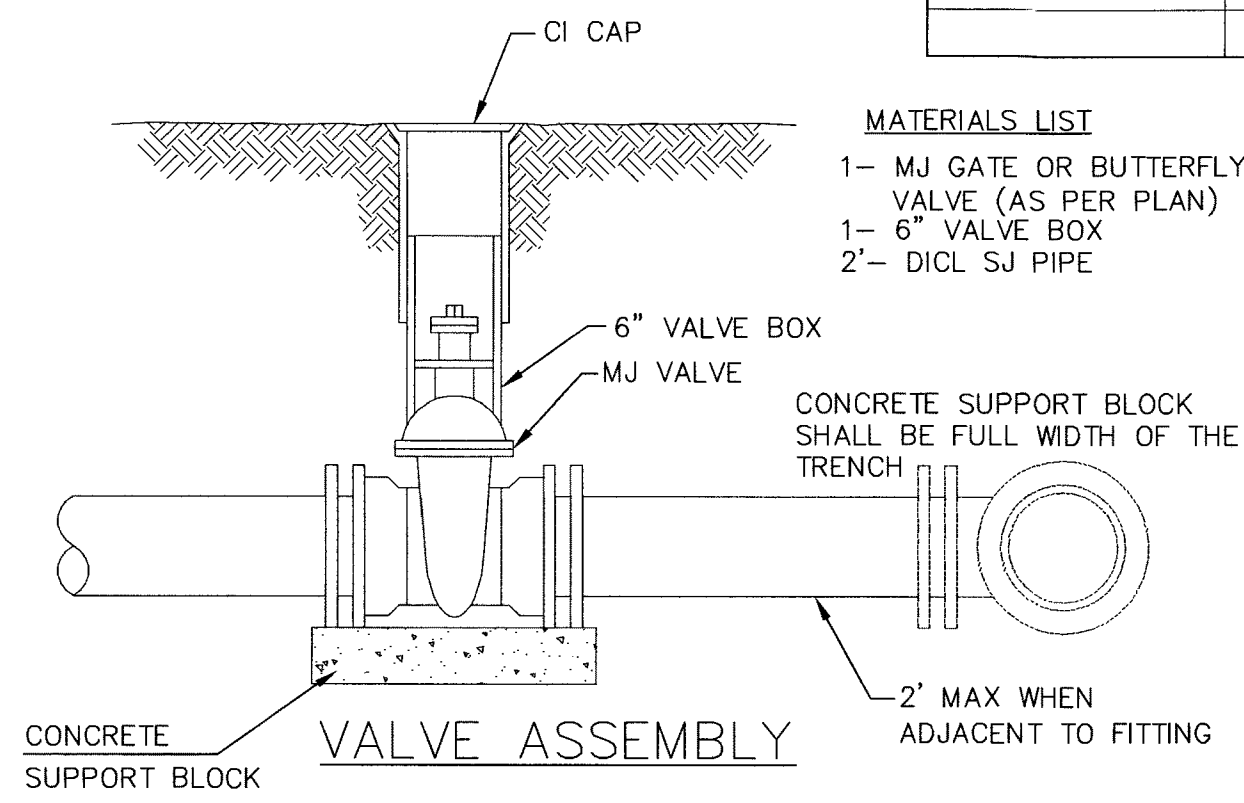
WIRES
The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach 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 malded 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.

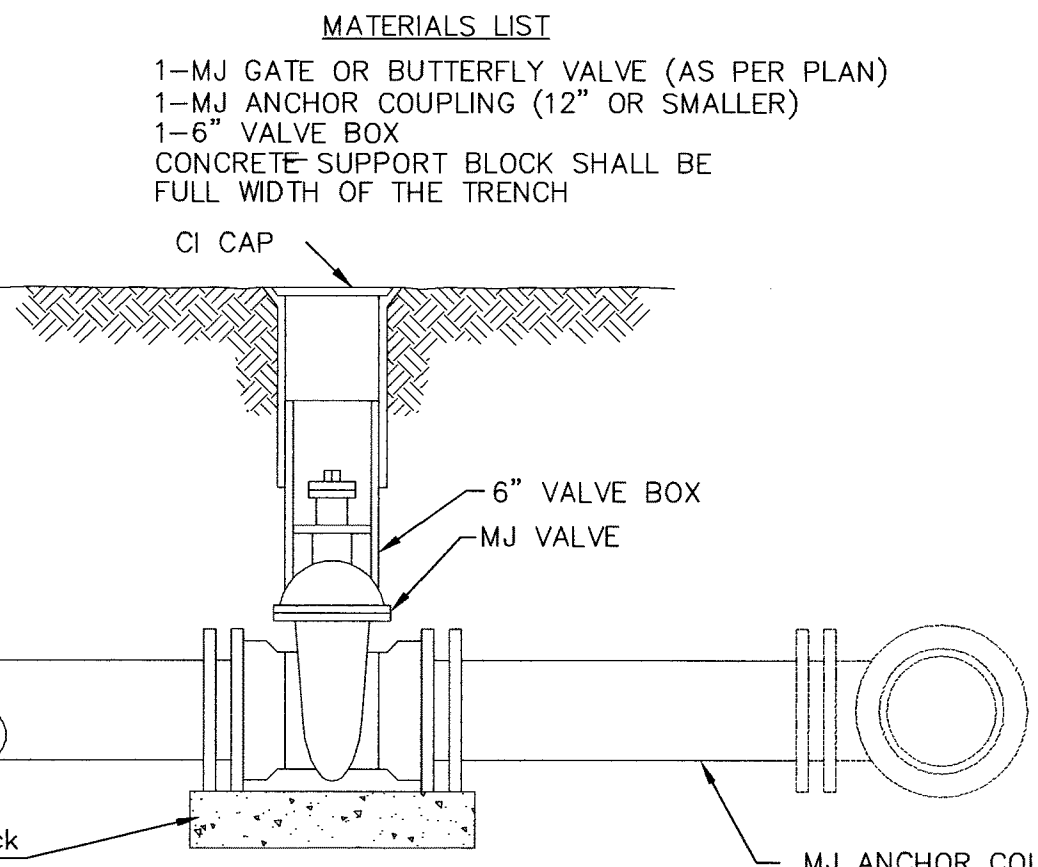
ANODES
The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to 12 AWG CCS which shall be extended to the test station.

TRACER WIRE DETAIL
COST IS SUBSIDIARY TO PIPE INSTALLATION

FIRE HYDRANTS REQUIRED				
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
10+16.00, LINE 6	1338.60	1334.27	5.0	
14+34.98, LINE 6	1336.93	1332.60	5.0	
10+59.23, LINE 7	1334.69	1330.36	5.0	

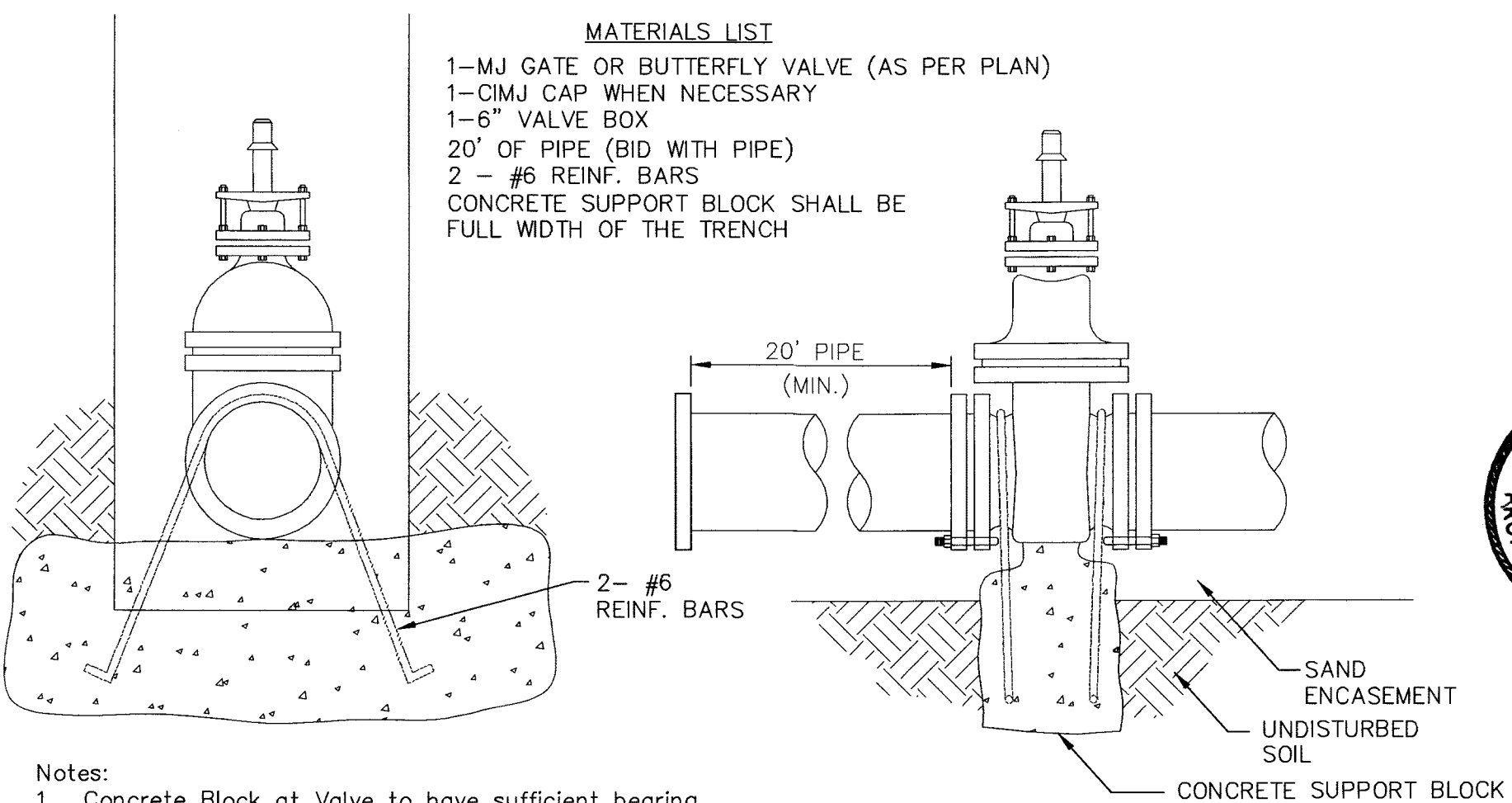


- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1- 6" VALVE BOX
 - 2"- DICL SJ PIPE



ANCHORED VALVE ASSEMBLY

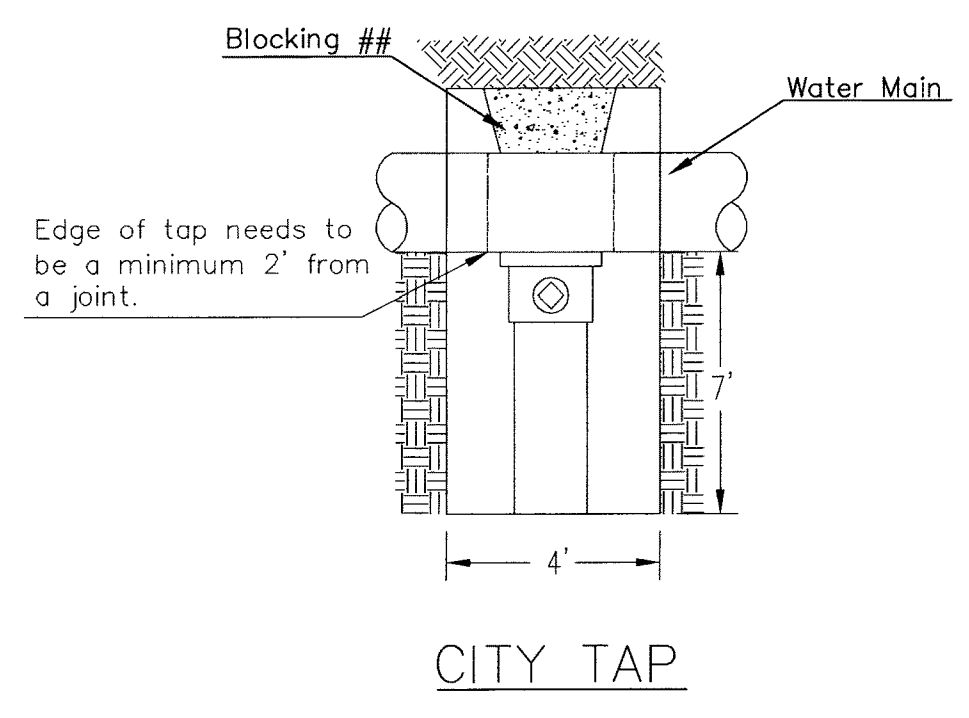
- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1- CI MJ CAP WHEN NECESSARY
 - 1- 6" VALVE BOX
 - 20' OF PIPE (BID WITH PIPE)
 - 2 - #6 REINF. BARS
 - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



- 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.

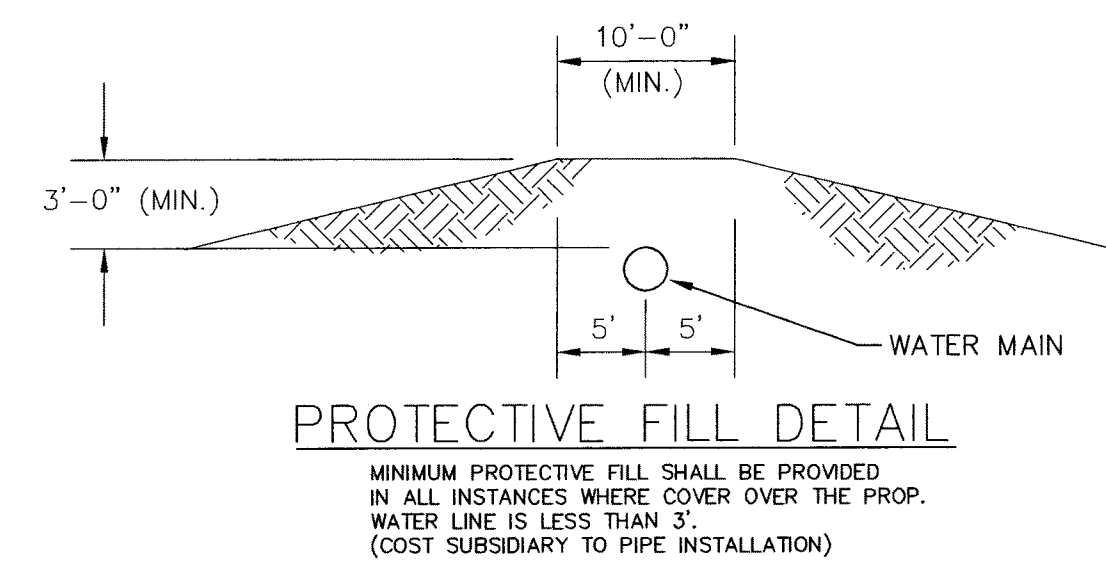
THRUST AT VALVES	
VALVE	THRUST AT 150 #/sq
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL



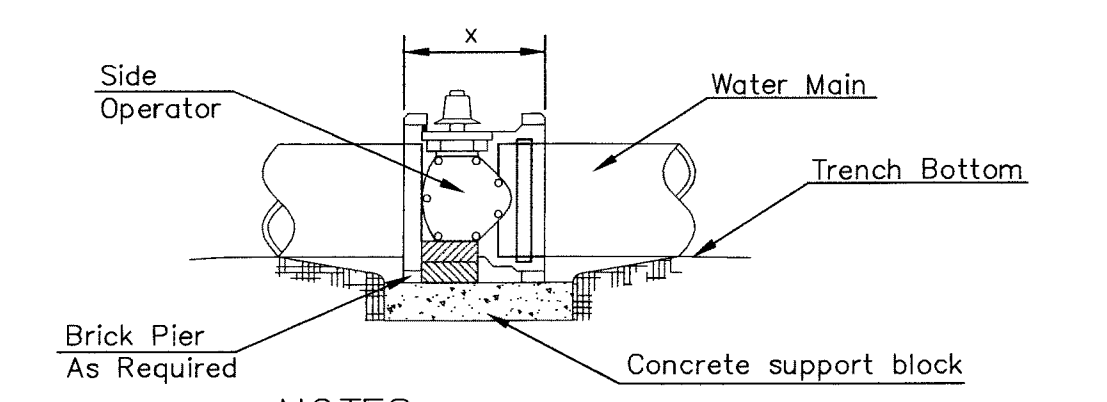
CITY TAP

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



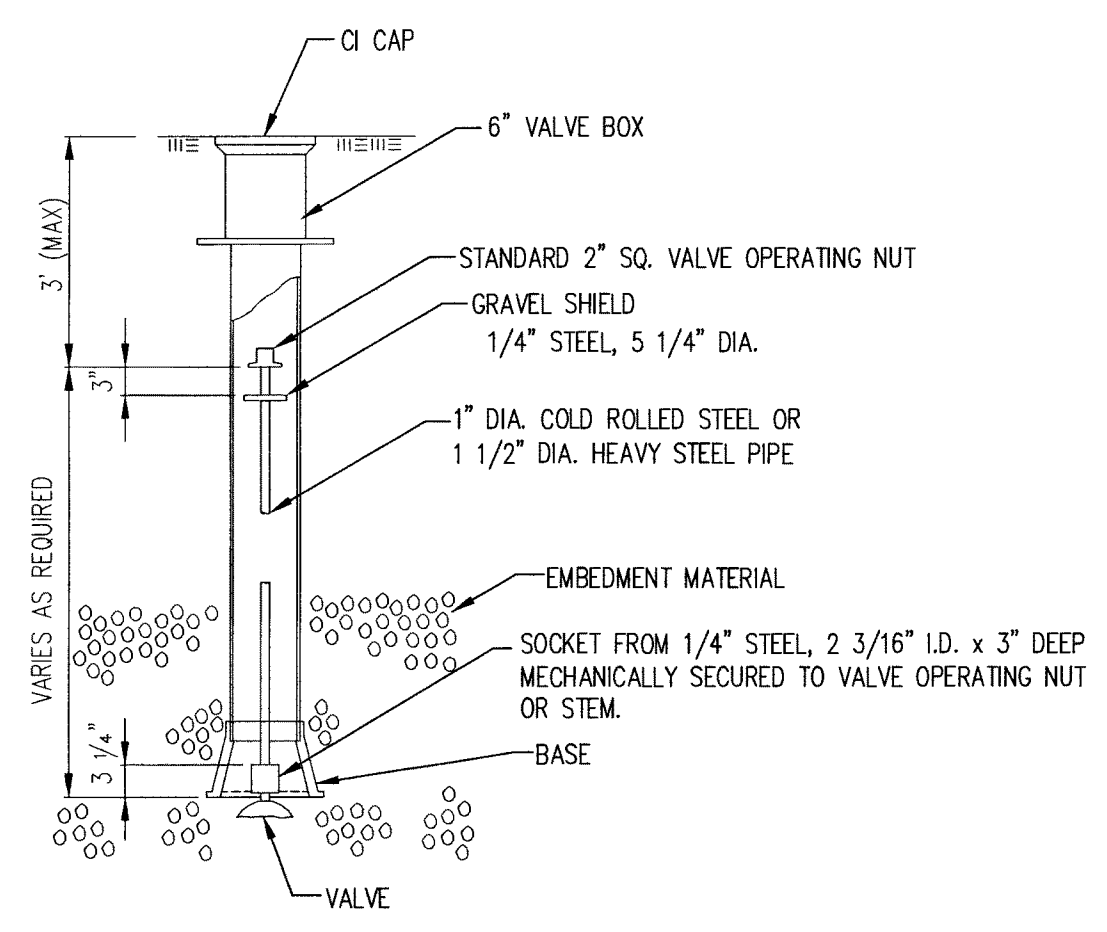
PROTECTIVE FILL DETAIL

MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3'. (COST SUBSIDIARY TO PIPE INSTALLATION)



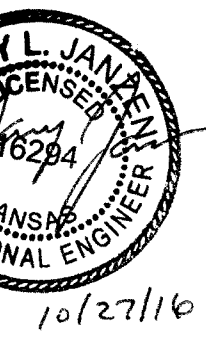
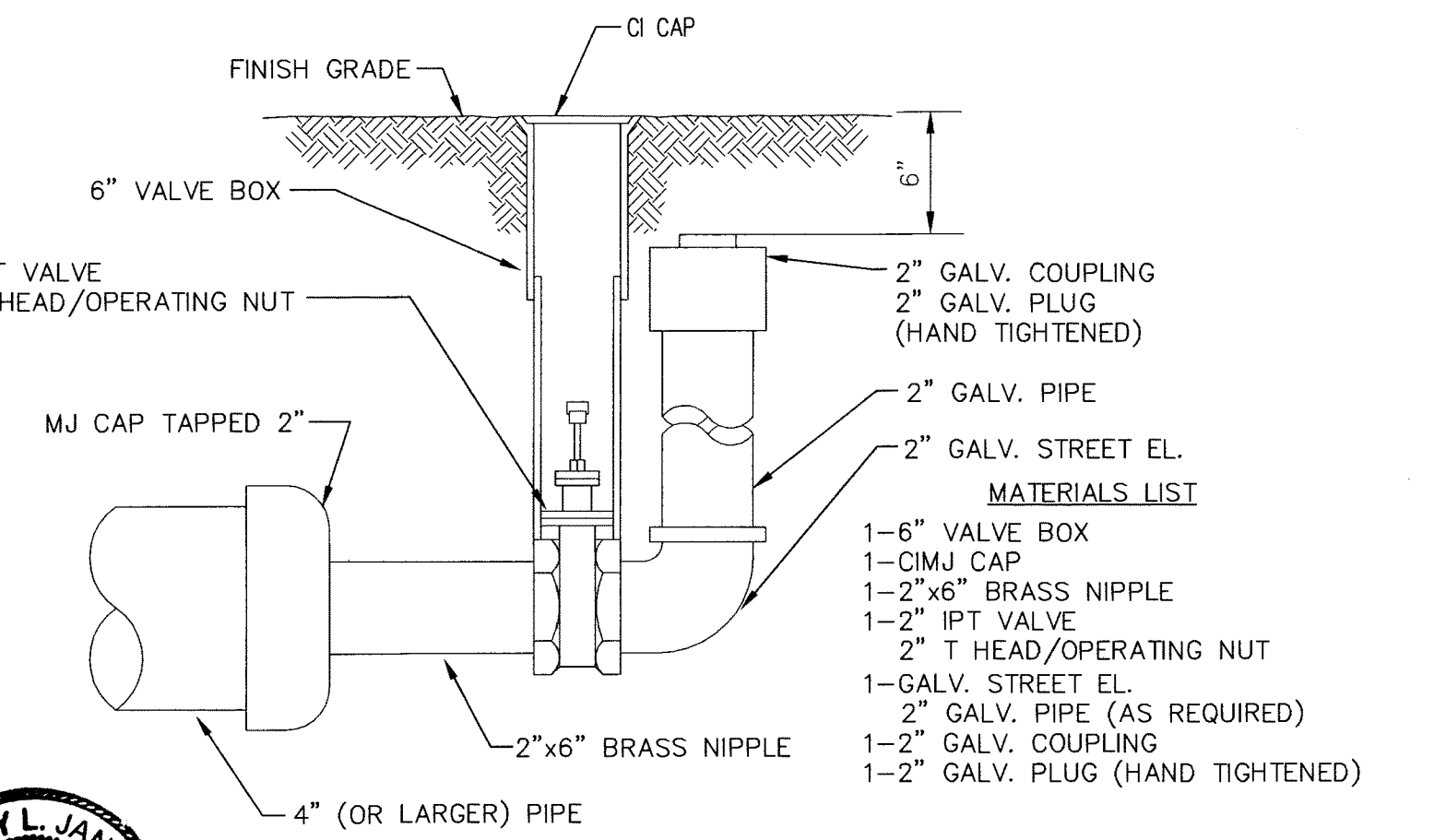
- NOTES**
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
 - 6" Valve Box and Cover required per City of Wichita Std. Specifications.
 - Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



VALVE STEM EXTENSION DETAIL

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



2" BLOWOFF ASSEMBLY



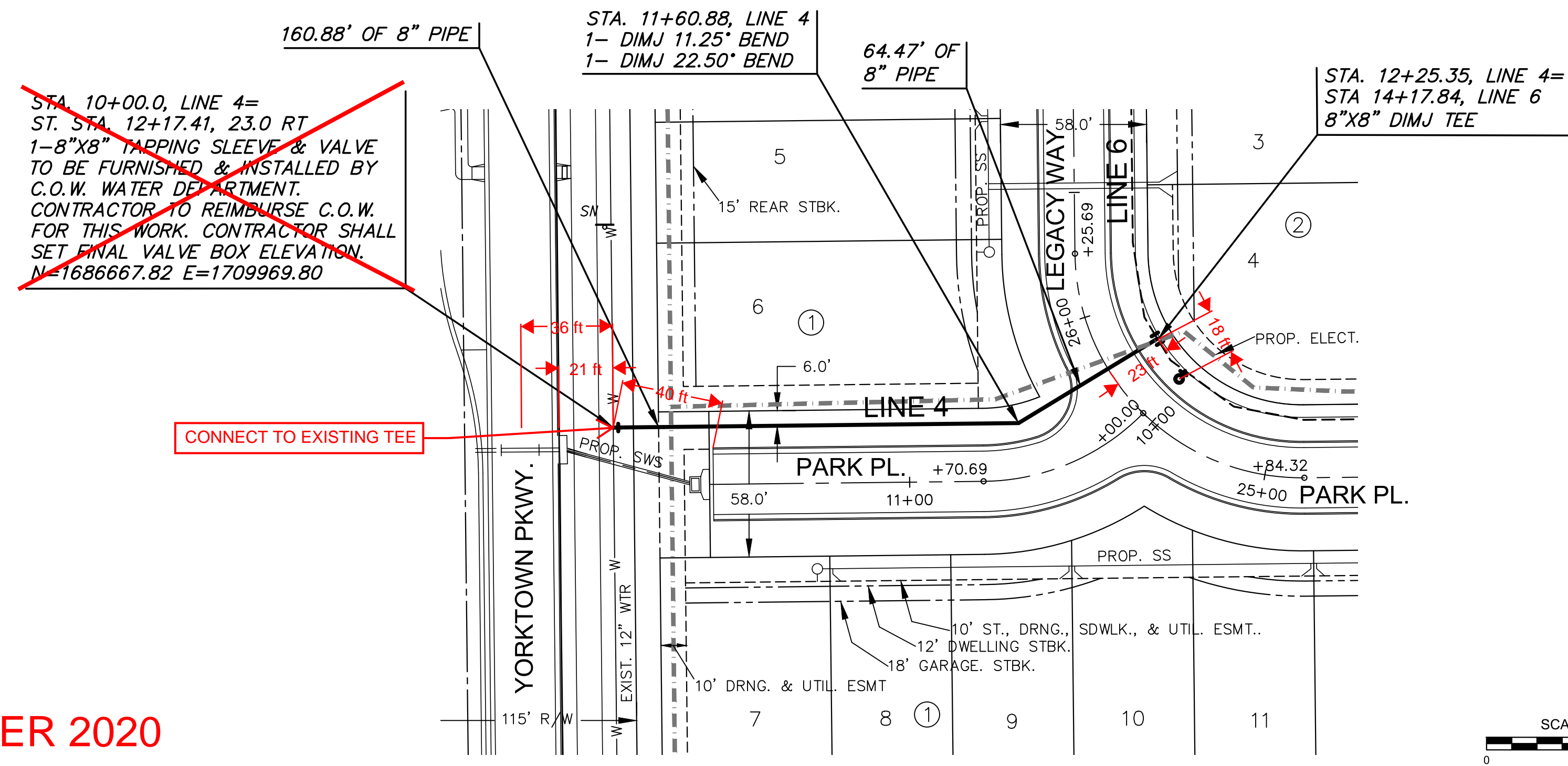
STANDARD WATER ASSEMBLY DETAIL		
CITY ENGINEER		
GARY JANZEN, P.E.		
PROJECT NUMBER	OCA NUMBER	DATE
PPW-2019-026188	183021	NOV 2019
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		02 OF 15

REVISED: OCTOBER 2016

PLOTTED: Friday, December 13, 2019 @ 11:05AM

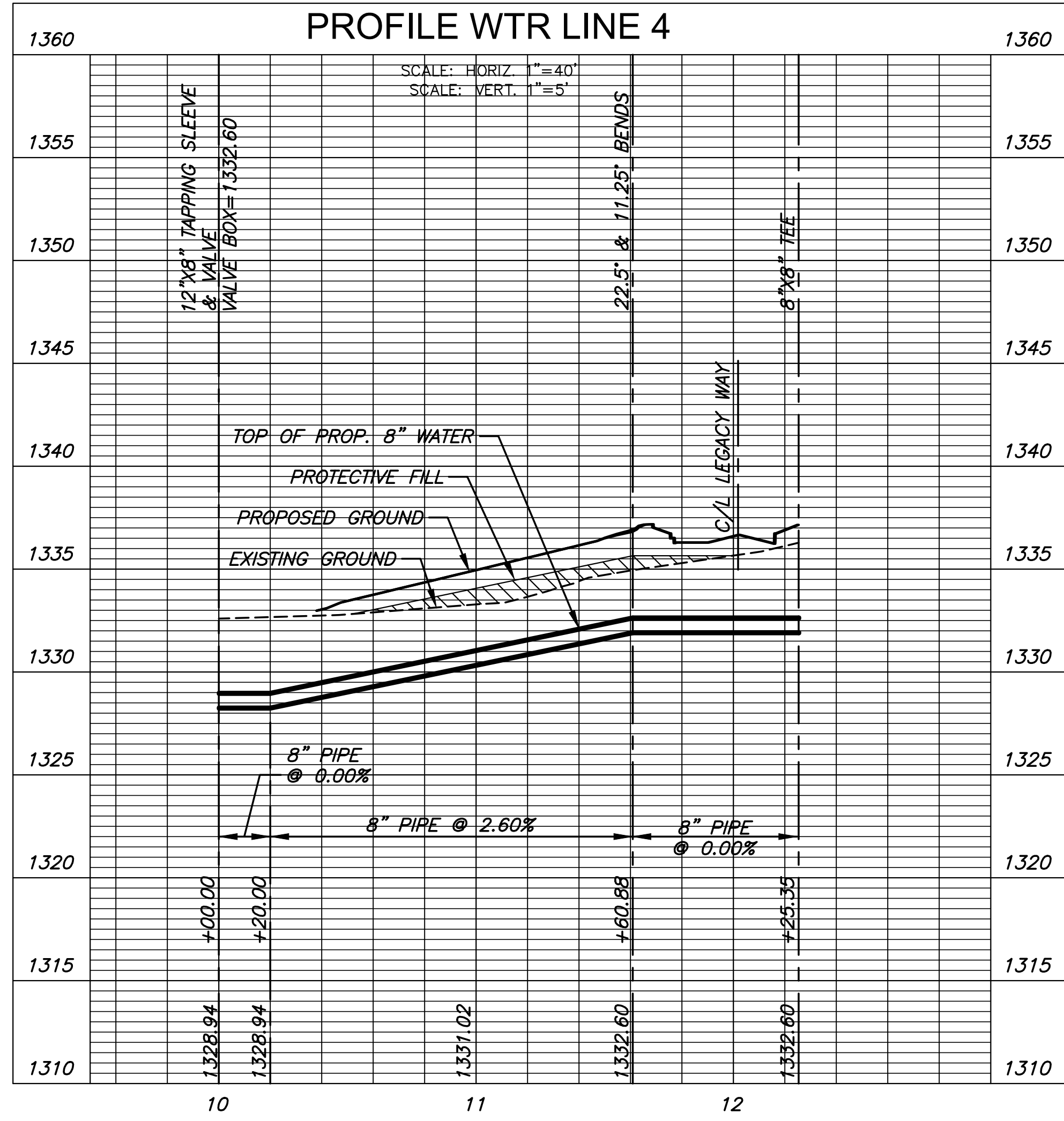
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NOTE:
 1. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING WATER LINE AND ALL OTHER UTILITIES PRIOR TO CONSTRUCTION.
 2. CONTRACTOR SHALL USE SHORTER LENGTHS OF PIPE WHEN INSTALLING HORIZONTAL RADIUSES THAT EXCEED MAXIMUM ALLOWED DEFLECTION.



AS-BUILT PLANS - NOVEMBER 2020

PLAN WTR LINE 4
 PROFILE WTR LINE 4



WATER DISTRIBUTION IMPROVEMENTS FOR
THE HERITAGE FIRST ADDITION
PHASE 1B
 ANDOVER, KANSAS

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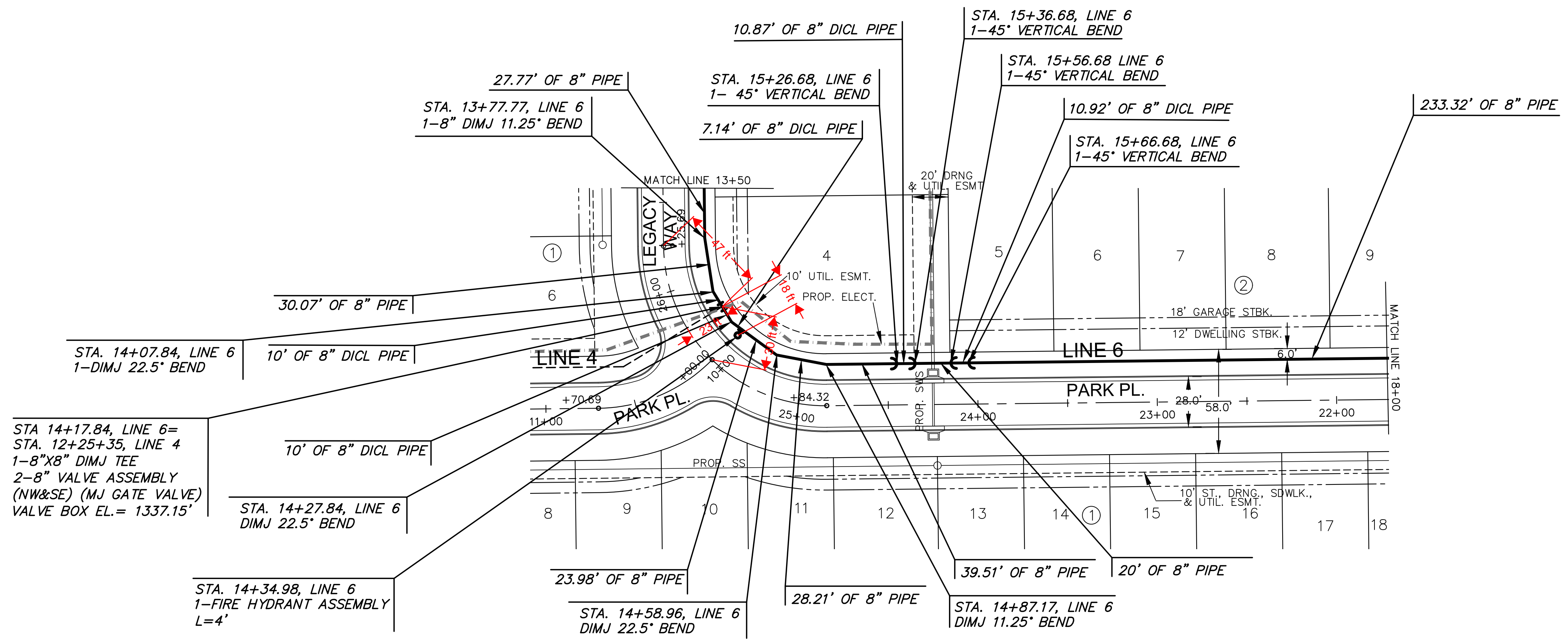
WTR LINE 4

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DATE	NOV 2019	
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DESIGNED	DRAWN	CHECKED
NNA	NNA	MAB

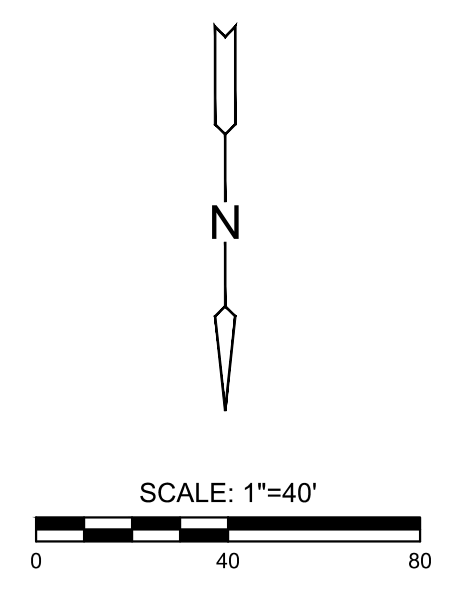
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NO.	REVISION	DATE

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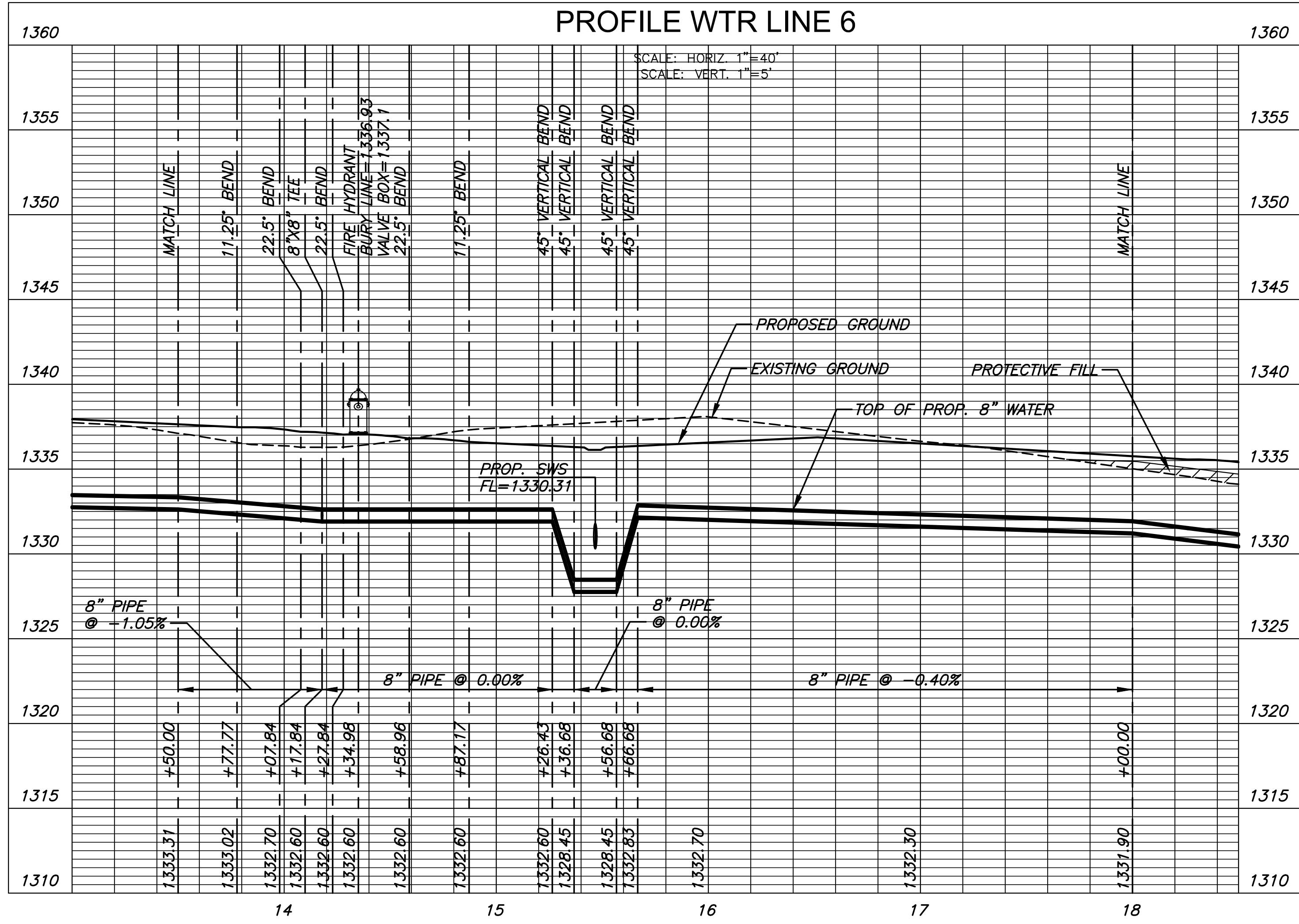


NOTE:
 1. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING WATER LINE AND ALL OTHER UTILITIES PRIOR TO CONSTRUCTION.
 2. CONTRACTOR SHALL USE SHORTER LENGTHS OF PIPE WHEN INSTALLING HORIZONTAL RADIUSSES THAT EXCEED MAXIMUM ALLOWED DEFLECTION.



AS-BUILT PLANS - NOVEMBER 2020

PLAN WTR LINE 6
 PROFILE WTR LINE 6



WATER DISTRIBUTION IMPROVEMENTS FOR
THE HERITAGE FIRST ADDITION
PHASE 1B
 ANDOVER, KANSAS

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WTR LINE 6 (CONT.)

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DATE	NOV 2019	
SCALE	183021	
DESIGNED	DRAWN	CHECKED
NNA	NNA	MAB

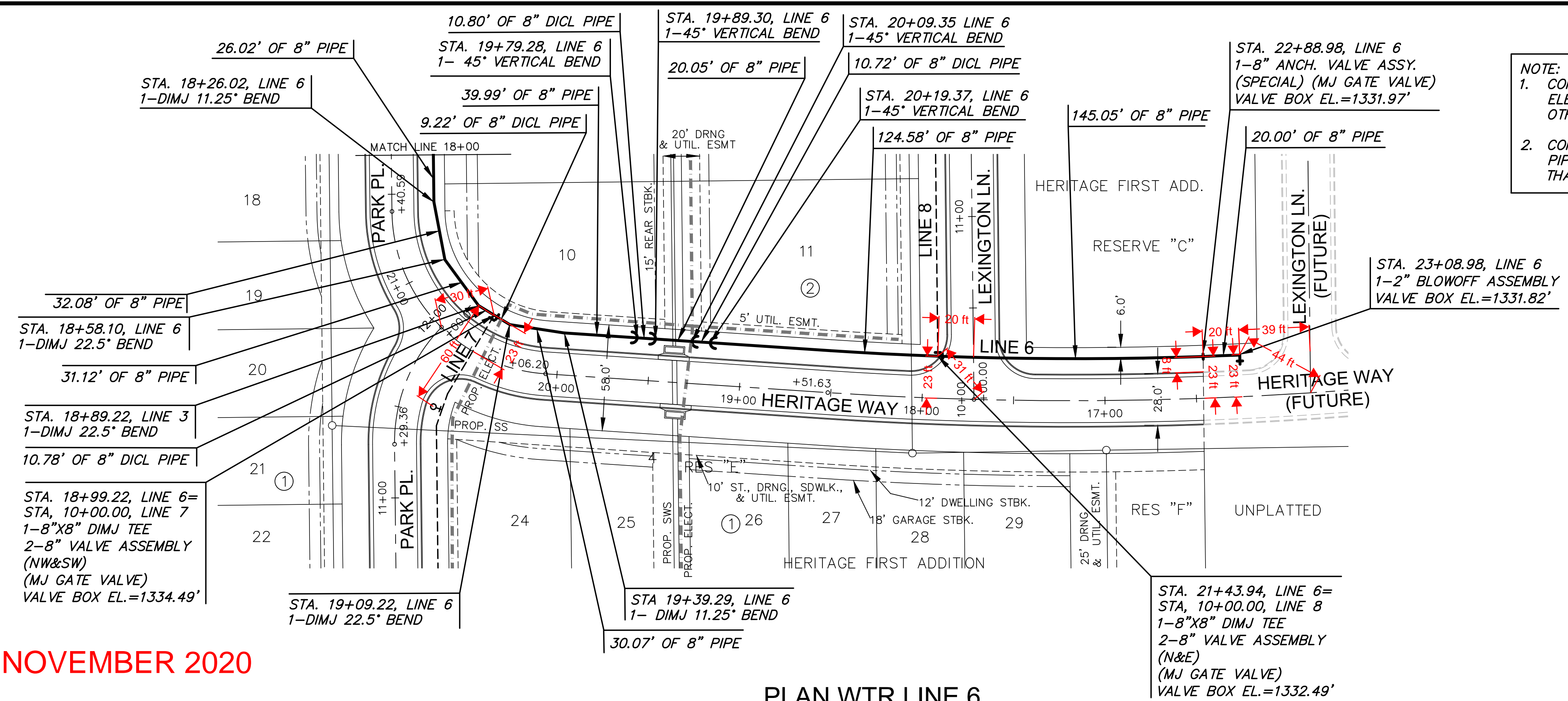
ISSUED FOR CONST.	11/27/19	
NO.	REVISION	DATE

SHEET NO.
 06 OF 12

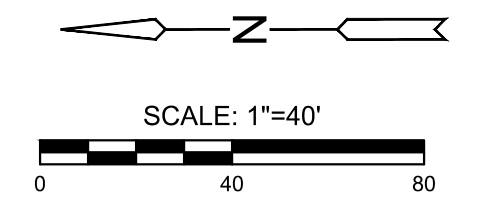


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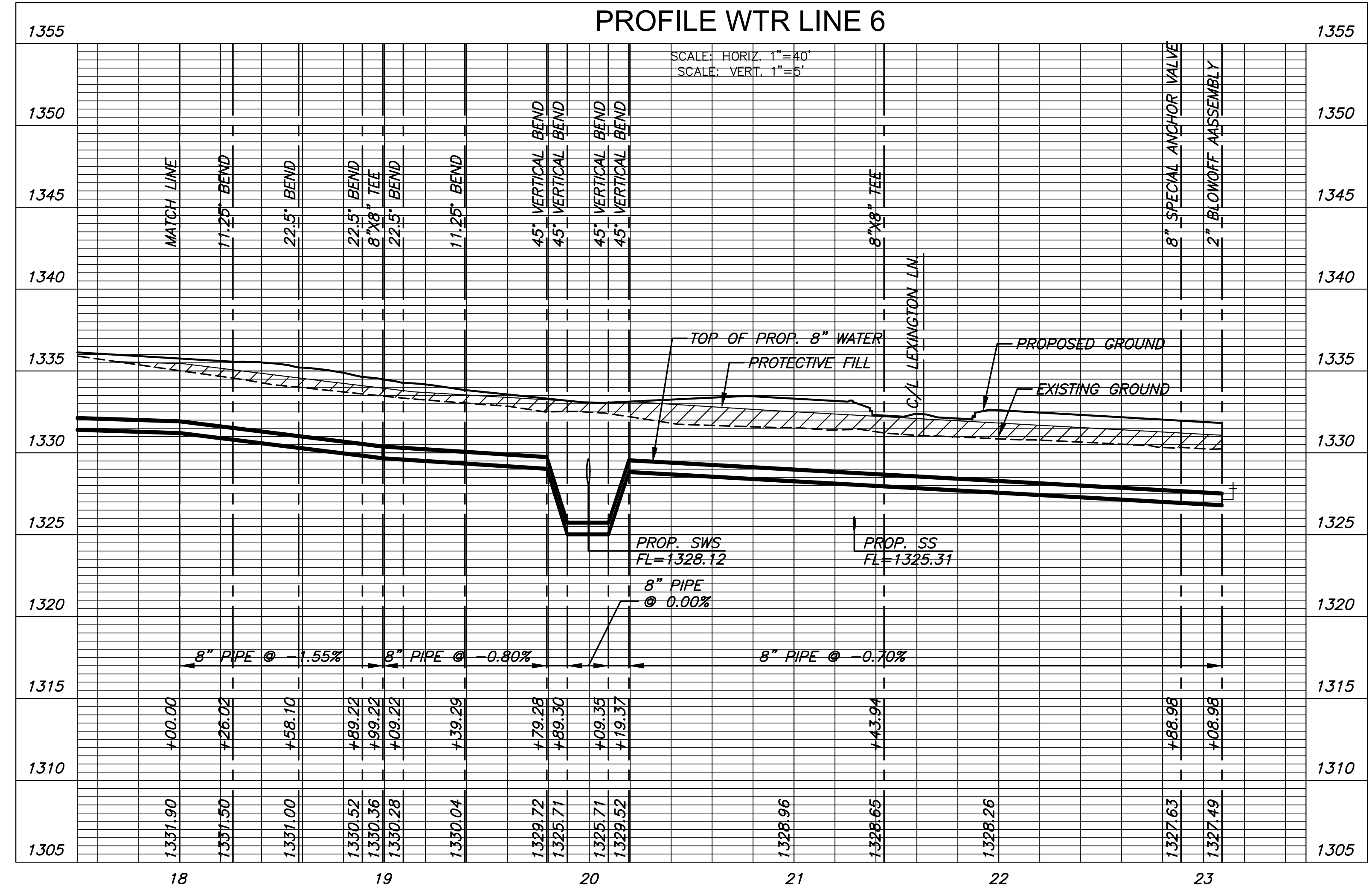


NOTE:
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 2. CONTRACTOR SHALL USE SHORTER LENGTHS OF PIPE WHEN INSTALLING HORIZONTAL RADIUSES THAT EXCEED MAXIMUM ALLOWED DEFLECTION.



AS-BUILT PLANS - NOVEMBER 2020

**PLAN WTR LINE 6
 PROFILE WTR LINE 6**



**WATER DISTRIBUTION IMPROVEMENTS FOR
 THE HERITAGE FIRST ADDITION
 PHASE 1B
 ANDOVER, KANSAS**

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**WTR LINE 6
 (CONT.)**

PROJECT NO.	PPW-2019-026188
DATE	NOV 2019
SCALE	183021
DESIGNED	NNA
DRAWN	NNA
CHECKED	MAB

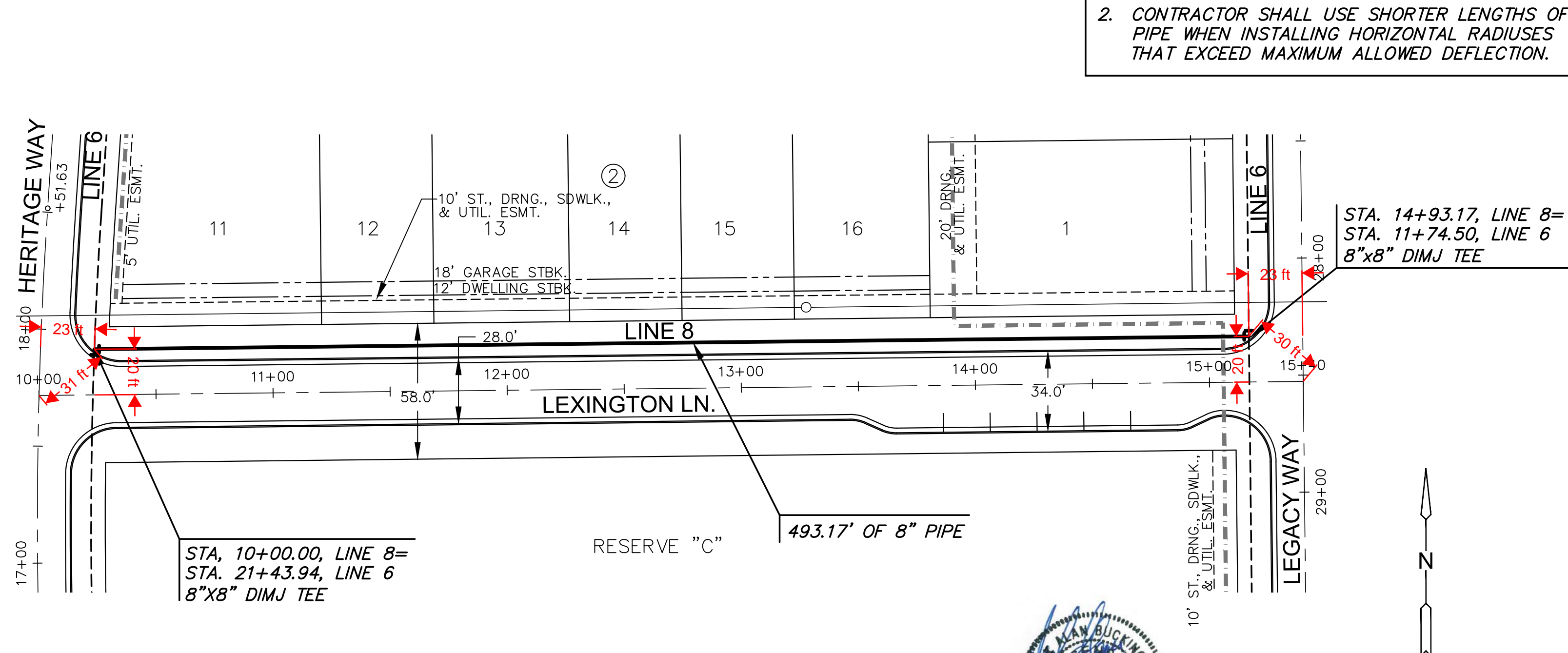
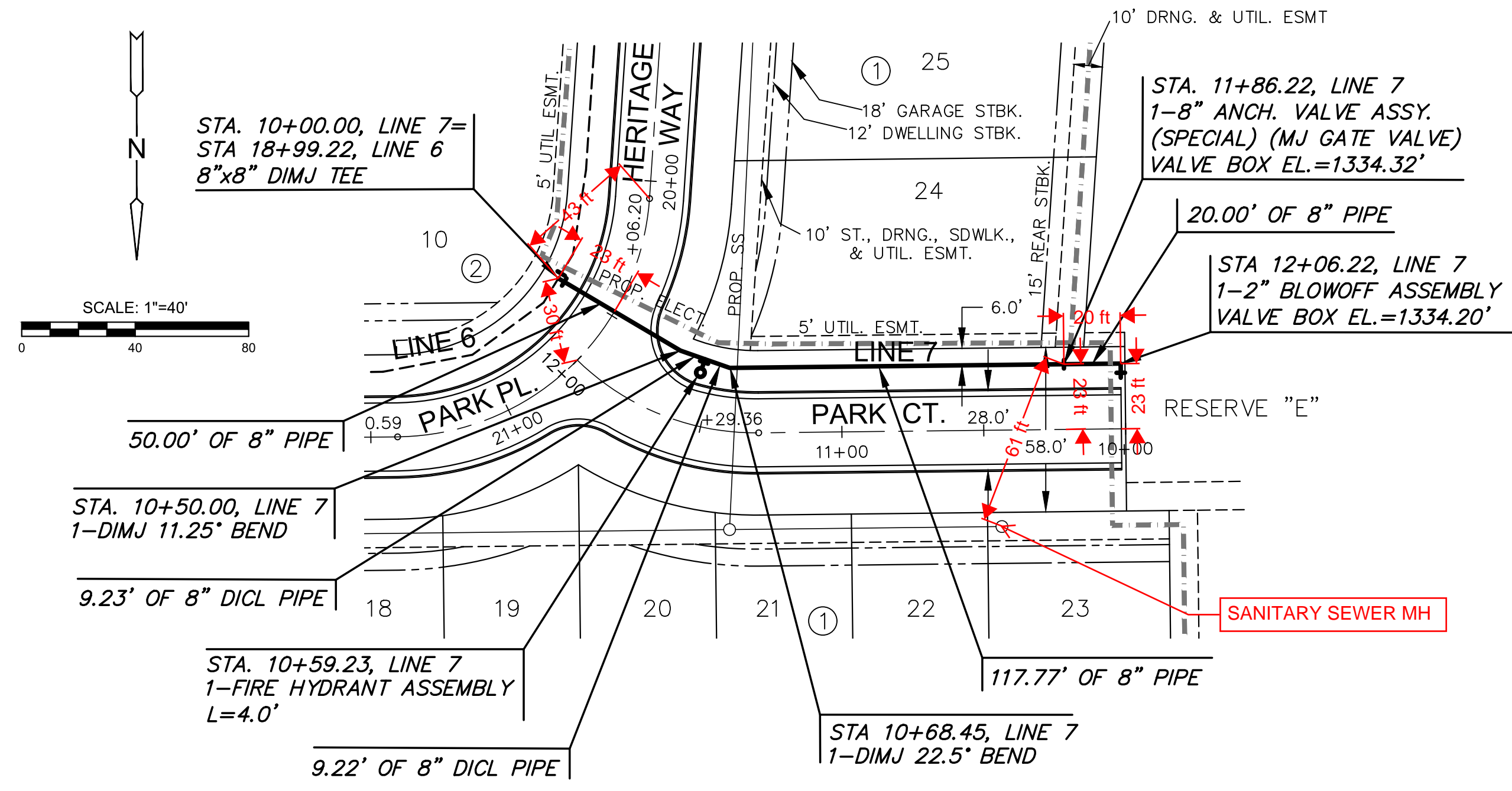
ISSUED FOR CONST.	11/27/19
NO.	REVISION
	DATE

SHEET NO.
07 OF 15



PLOT DATE: Friday, December 13, 2019 @ 11:09AM

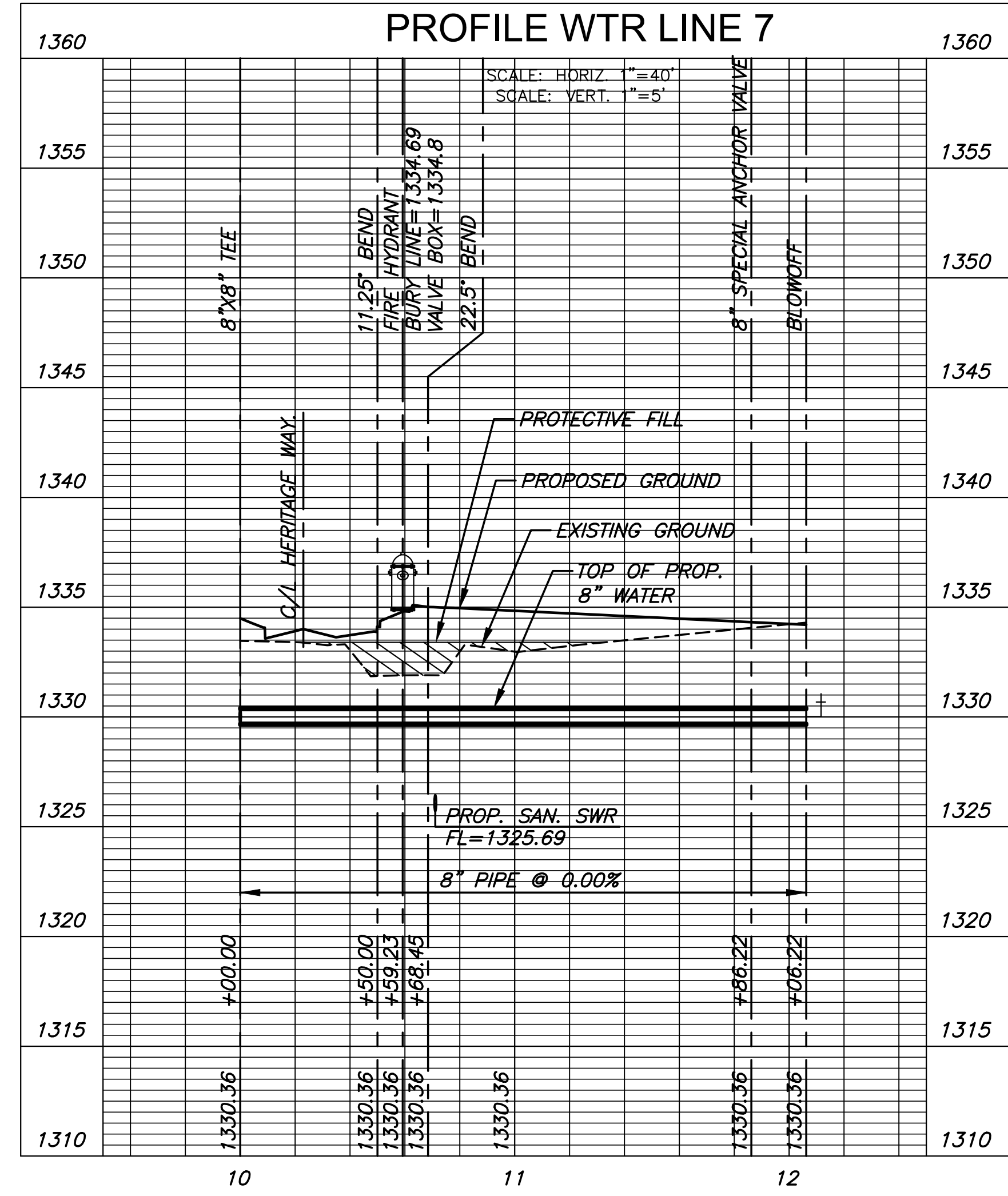
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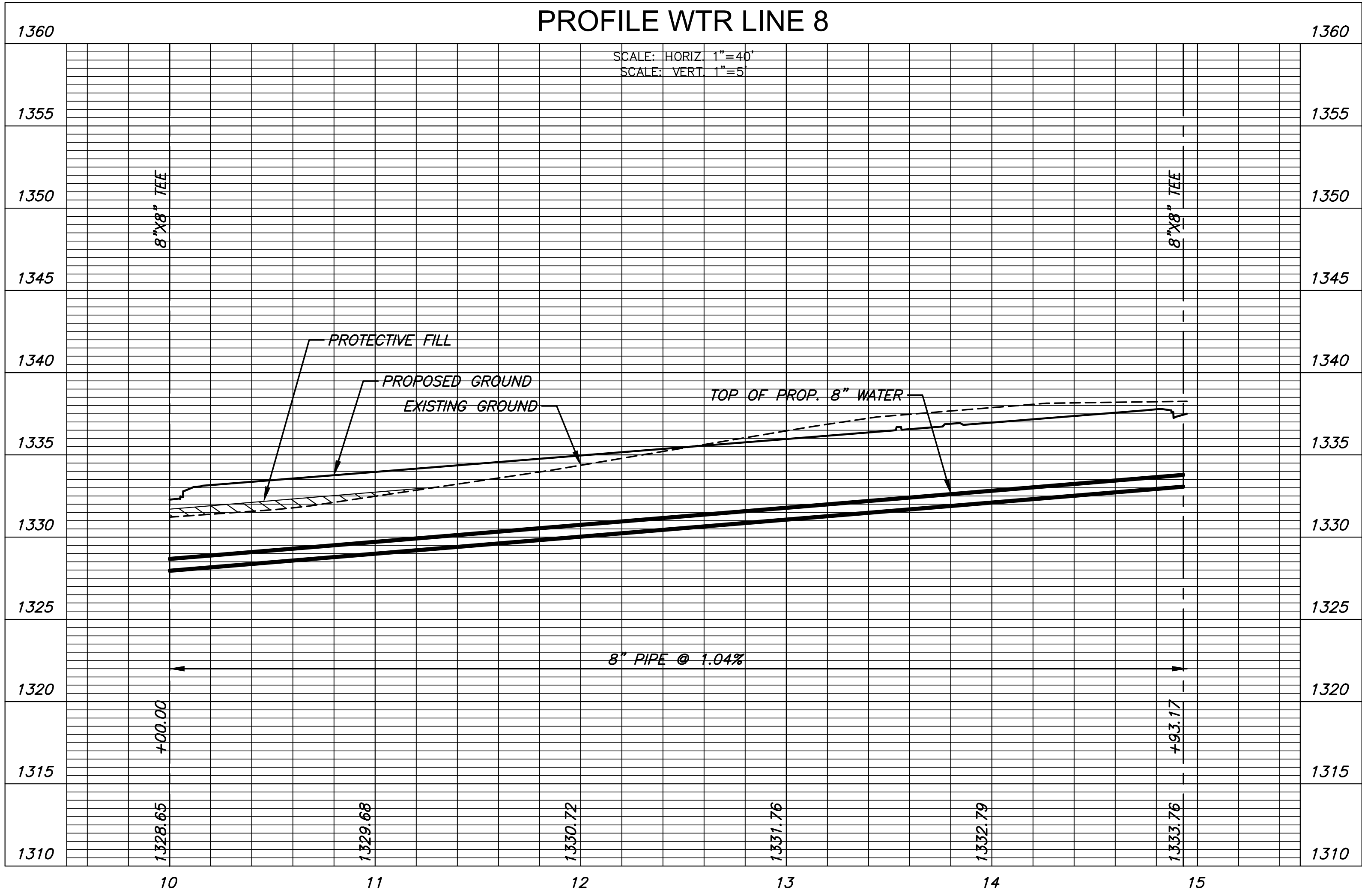
NOTE:
 1. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING WATER LINE AND ALL OTHER UTILITIES PRIOR TO CONSTRUCTION.
 2. CONTRACTOR SHALL USE SHORTER LENGTHS OF PIPE WHEN INSTALLING HORIZONTAL RADIUSES THAT EXCEED MAXIMUM ALLOWED DEFLECTION.

AS-BUILT PLANS - NOVEMBER 2020

**PLAN WTR LINE 7
 PROFILE WTR LINE 7**



**PLAN WTR LINE 8
 PROFILE WTR LINE 8**



**WATER DISTRIBUTION IMPROVEMENTS FOR
 THE HERITAGE FIRST ADDITION
 PHASE 1B
 ANDOVER, KANSAS**

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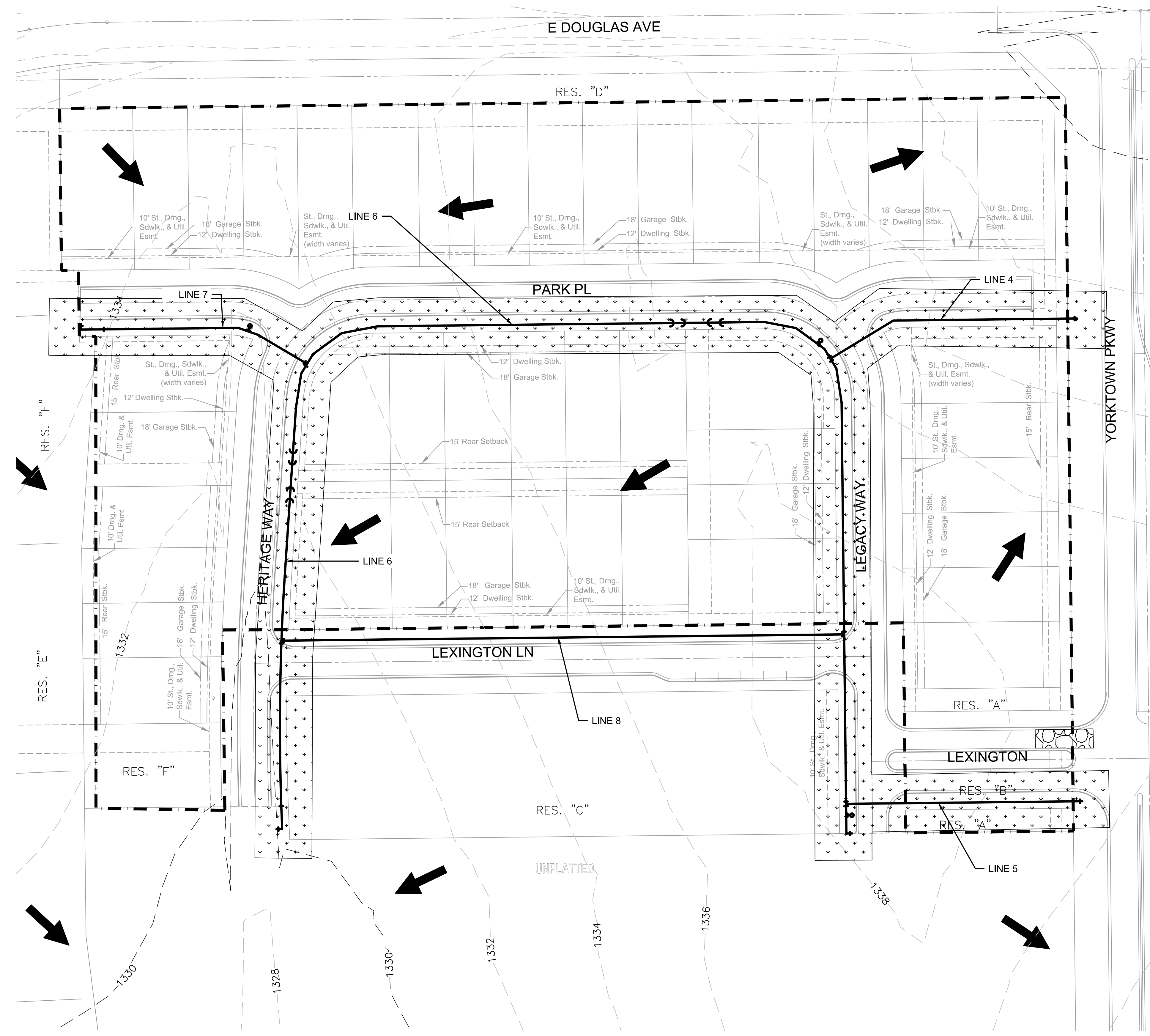
WTR LINE 7 & 8

PROJECT NO.	PPW-2019-026188	
DATE	NOV 2019	
SCALE	183021	
DESIGNED	DRAWN	CHECKED
NNA	NNA	MAB

ISSUED FOR CONST.	11/27/19	
NO.	REVISION	DATE

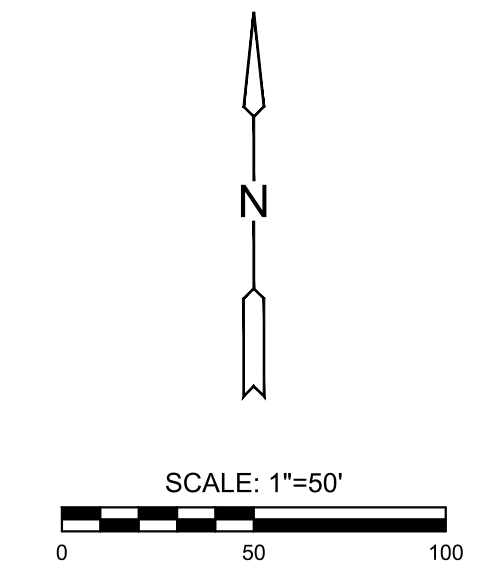
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08 OF 15

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 PLOTTED: Friday, December 13, 2019 @ 11:09AM



EROSION CONTROL/SEEDING NOTES

1. EROSION CONTROL IS TO MEET ALL FEDERAL, STATE, COUNTY AND LOCAL CODE STANDARDS.
2. FOR THE ENTIRE LENGTH OF THE WATER LINE INSTALLATION AND FOR THE DURATION OF CONSTRUCTION THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO CONTAIN EROSION.
3. AT THE CONCLUSION OF CONSTRUCTION ALL DISTURBED AREAS (INCLUDING AREAS OUTSIDE THE GRADING/SEEDING LIMITS SHOWN ON THIS EROSION CONTROL PLAN) ARE TO BE STABILIZED WITH PERMANENT SEEDING.
4. AREAS WHERE CONSTRUCTION WILL CEASE FOR TEN (10) WORKING DAYS OR LONGER ARE TO BE SEEDED WITH RYE GRASS AT A RATE OF 200 LBS. PER ACRE, SLOW RELEASE FERTILIZER 150 LBS PER ACRE WITH STRAW OR CLEAN PRAIRIE MULCH APPLIED AT 2.0 TONS PER ACRE. MULCH TO BE CRIMPED INTO SOIL. CONTRACTOR TO PREPARE GROUND PER CITY OF WICHITA STANDARD SPECIFICATION SECTION 902.3. GROUND PREPARATION, SEED, FERTILIZER, AND MULCH ARE INCLUDED IN THE "TEMPORARY SEEDING" BID ITEM.
5. DEPENDING UPON CONSTRUCTION SEQUENCE AND DURATION, MORE THAN ONE MOBILIZATION TO INSTALL TEMPORARY SEEDING MAY BE REQUIRED. THE NECESSARY NUMBER OF MOBILIZATIONS SHALL BE SUBSIDIARY TO THE "TEMPORARY SEEDING" BID ITEM.
6. ALL AREAS SHALL BE FINE GRADED AND SURFACE SHALL BE FREE FROM STICKS, SMALL STONES, AND OTHER EXTRANEIOUS MATERIALS.
7. SEEDING AREAS SHALL BE PREPARED FOR PLANTING WITH COMMON AGRICULTURAL TECHNIQUES. APPROVE WITH OWNER'S REPRESENTATIVE BEFORE PLANTING.
8. ALL SEED SHALL BE DISTRIBUTED WITH AN ACCEPTABLE DRILL INTENDED FOR SUCH OPERATIONS, OR OTHER EQUIPMENT APPROVED BY THE OWNER'S REPRESENTATIVE. SEEDING DEPTH SHALL BE 1/4 OF AN INCH.
9. ANY MUD TRACKED ONTO ADJACENT PAVED AREAS OR STREETS SHALL BE REMOVED AT THE END OF EACH WORK DAY.
10. PER THE REQUIREMENTS OF THE NOI/SWPPP, BMP INSPECTION REPORTS SHALL BE COMPLETED BY THE CONTRACTOR WEEKLY AND WITHIN 24 HOURS AFTER A 1/2" RAIN. REPORTS SHALL BE KEPT WITH THE SWPPP ON SITE.
11. CONTRACTOR SHALL PROVIDE A SIGN NEAR THE ENTRANCE WITH THE FOLLOWING INFORMATION:
 A. CONTACT NAME AND INFORMATION
 B. A COPY OF THE NOI
 C. LOCATION OF SWPPP



LEGEND

- 1370 --- EXIST. CONTOUR
- 1370 — PROP. CONTOUR
- W — WATERLINE
- S — SANITARY SEWER
- SS — STORMWATER SEWER
- UGE — UNDERGROUND ELECTRICAL
- G — GAS LINE
- FOC — FIBER OPTIC CABLE
- ➔ FLOW ARROW
- - - - - LIMITS OF PROJECT (EST.)
- TEMPORARY SEEDING (DIAGRAMMATIC ONLY)

NOTE:
 SEE 'THE HERITAGE FIRST ADDITION NORTH PARK - PART A DRAINAGE PLANS' PROJECT FOR STABILIZED ENTRANCE LOCATION AND TEMPORARY SEEDING DETAILS.



WATER DISTRIBUTION SYSTEM IMPROVEMENTS FOR
HERITAGE FIRST ADDITION
PHASE 1B
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EROSION CONTROL PLAN

PROJECT NO.	PPW-2019-026188	
DATE	NOV 2019	
SCALE	1"=50'	
DESIGNED	DRAWN	CHECKED
LES	LES	MAB
0	ISSUED FOR CONST.	12-10-19
NO.	REVISION	DATE

SHEET NO.
 09 OF 15

AS-BUILT PLANS - NOVEMBER 2020