

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-CALL887-2470
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
AT&T 1-800-248-4884
BLACK HILLS ENERGY 1-800-894-8989
CITY OF WICHITA WATER & SEWER 1-316-219-8921
CITY OF WICHITA STORMWATER 1-316-268-4080
CITY OF WICHITA TRAFFIC 1-316-268-4034
COX COMMUNICATIONS 1-888-249-3530
KANSAS GAS SERVICE 1-888-492-4850
WESTAR ENERGY (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 WITH 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 ARCHITECTURAL INVESTIGATION 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 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 REESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED 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 316-850-0740 WITH THE CITY OF WICHITA WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION. STAKING AND INSPECTION FOR THIS PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 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 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.
- 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 OPENED AS NEW CONSTRUCTION PERMITS. THE PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED. THE CONTRACTOR WILL BE PERMITTED TO OPEN 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 VM-101. COST IS SUBSIDIARY TO PIPE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE MATERIALS FOR TEMPORARY SLOWOFF OF WATER LINES. 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 BUSINESSES, 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 FITTINGS.
- ANY EXISTING JOINT EXPOSED DURING EXCAVATION SHALL BE REPLACED IF WITHIN FOUR FEET OF PROPOSED JOINT.
- VALVES 12 INCHES AND LARGER ARE TO BE OPERATED BY THE CITY WATER DISTRIBUTION DIVISION. 48 HOURS OF ADVANCE NOTICE IS REQUIRED WITH THE WATER DISPATCH AT 316-261-8921.
- 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.
- CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEDGENDS TO LESS THAN 90 FEET.
- WICHITA FIRE DEPARTMENT INSPECTIONS MAY BE SCHEDULED BY CALLING DAWNITA REINHARDT AT 316-850-0740.
- KDCE REQUIRES THE FOLLOWING NOTES:
28.1. MAINTAIN A MINIMUM OF 10-FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER LINES (MANS, SERVICES, AND FIRE HYDRANTS) AND ALL SANITARY SEWER LINES (MANS, SERVICES, AND MANHOLES). ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE TO EDGE, AT THE CLOSEST POINT.
28.2. MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MANS AND SERVICES) AND ALL PRESSURIZED SANITARY SEWER LINES (FORCE MAINS AND SERVICES) AT CROSSINGS. ALL SEPARATION DISTANCES ARE TO BE MEASURED FROM EDGE-TO-EDGE, AT THE CLOSEST POINT.
28.3. MAINTAIN A MINIMUM OF 2-FOOT VERTICAL SEPARATION BETWEEN ALL WATER LINES (MANS 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.

Benchmarks

BRASS DISK IN TOP OF CONCRETE AT THE NORTHEAST CORNER OF GIRAFFE YARD.
ELEVATION = 1325.50
(NAVD '88)

MAO NAIL AND WASHER IN SOUTH SIDE OF PATH JUST TO THE WEST OF THE ENTRANCE TO THE ELEPHANT EXHIBIT.
ELEVATION = 1321.60
(NAVD '88)

WATER DISTRIBUTION SYSTEM

to serve

Sedgwick County Zoo

Amur and Snow Leopards

5555 W ZOO BLVD.

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer
2020-030499PPW

OCA #183021 NEW 1.25" RAW WATER LINE

Material List
Clow valves
Signa fittings
6" MD McWane DICL
6" C900 PVC
Smith-Blair Collars
Tyler Union Tees
Clow (Storz) Fire Hydrant Assembly

NEW 0.75" RAW WATER LINE

NEW 1.25" POTABLE WATER LINE
NEW HYDRANT AND 6" POTABLE WATER LINE
Clow FH (Storz)

Field Change
2" Tap existing water line
replacing Line 200 proposed Tap

NEW 6" POTABLE WATER MAIN
NEW 8" RAW WATER MAIN



Vicinity Map

Sheet List Table

Sheet Number	Sheet Title
PPW1	COVER
PPW2	WATER PLAN AND PROFILE
PPW3	WATER PLAN AND PROFILE
PPW4	WATER PLAN
PPW5	WATER PLAN
PPW6	WATER PLAN
PPW7	WATER LINE DETAILS
PPW8	WATER LINE DETAILS
ECD1	EROSION CONTROL DETAIL
ECD2	EROSION CONTROL DETAIL
ECD3	EROSION CONTROL DETAIL
ECD4	EROSION CONTROL DETAIL
ECD5	EROSION CONTROL DETAIL

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

Engineering Shawn Molloy

Utilities Greg Lolley

Fire Dept. Jose Oradiz

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 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.

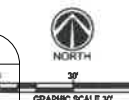
An approved copy of these plans signed by City staff are required on-site.

AS BUILTS

Contractor: **Pearson Construction**
Project Inspector: **Tom Jones**

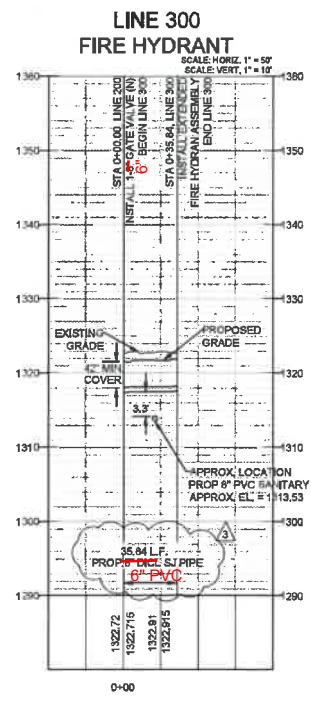
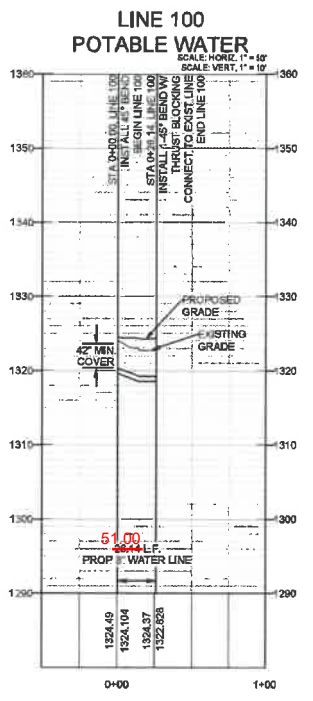
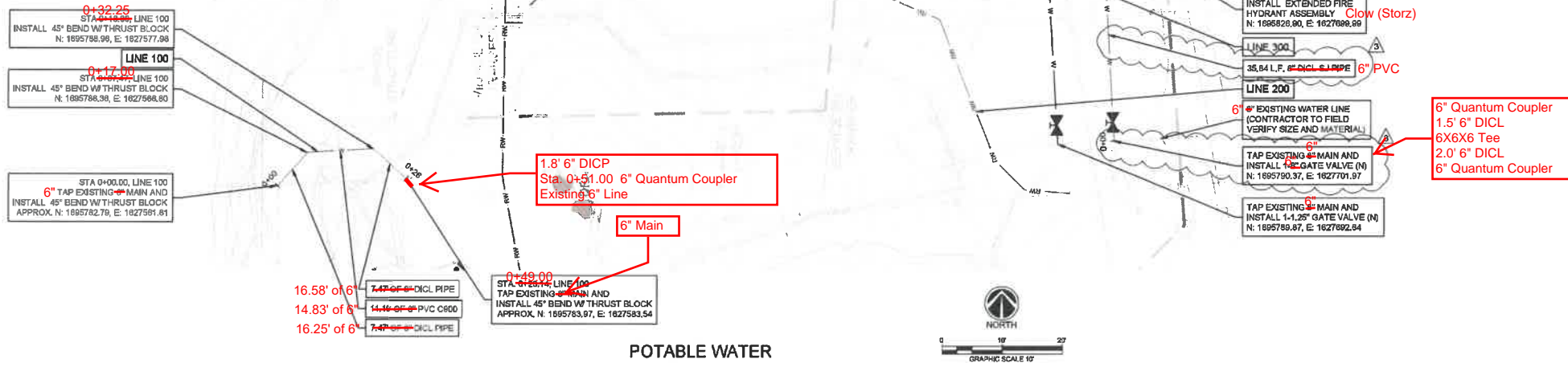
04/09/21

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



GLMV Architecture
1525 E. Douglas Ave.
Wichita, KS 67211

- WATER LINE NOTES:**
- SANITARY LINE TO BE ENCASED 10 LF IN EACH DIRECTION FROM THE CENTER LINE OF THE CROSSING IF THERE IS LESS THAN 2 FT OF VERTICAL SEPARATION FROM WATER LINES.
 - ALL VALVES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C-600 OR AWWA C-603.
 - ALL TAPPING SLEEVES, GATE VALVES, AIR RELEASE AND VACUUM VALVES AND CORPORATION STOPS SHALL BE IN ACCORDANCE WITH PART 800 WATER AND SEWER SUBSECTION 803.3.
 - ALL VALVES SHALL BE INSTALLED IN ACCORDANCE WITH WICHITA STANDARDS PART 800 WATER AND SEWER SUBSECTION 803.7 VALVES.
 - ALL PIPES INSTALLED SMALLER THAN 2" ARE NOT NECESSARY TO BE APPROVED BY THE CITY OF WICHITA PPW PROCESS.



AS BUILTS

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



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LEOPARD EXHIBIT
 Sedgwick County Zoo
 5555 W Zoo Blvd
 Wichita, KS 67212

MARK	DATE	DESCRIPTION
3	2/17/21	REVISION 3
1	10/22/20	ISSUED FOR PERMIT

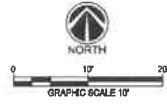
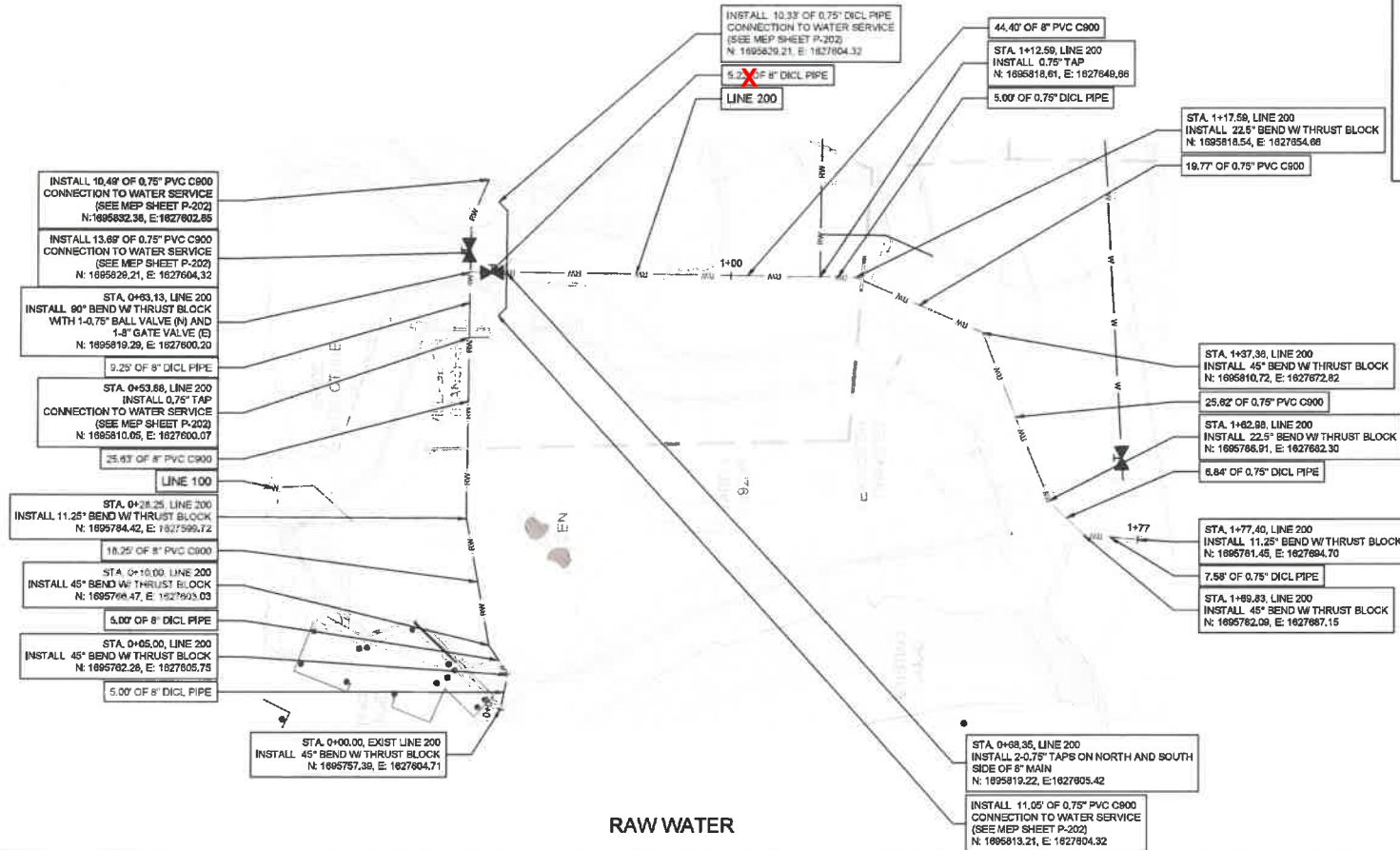
WATER PLAN AND PROFILE

PPW2
 Job No. 12010,16004
 Date 10/23/2020
 Drawn NLH
 Checked LEG

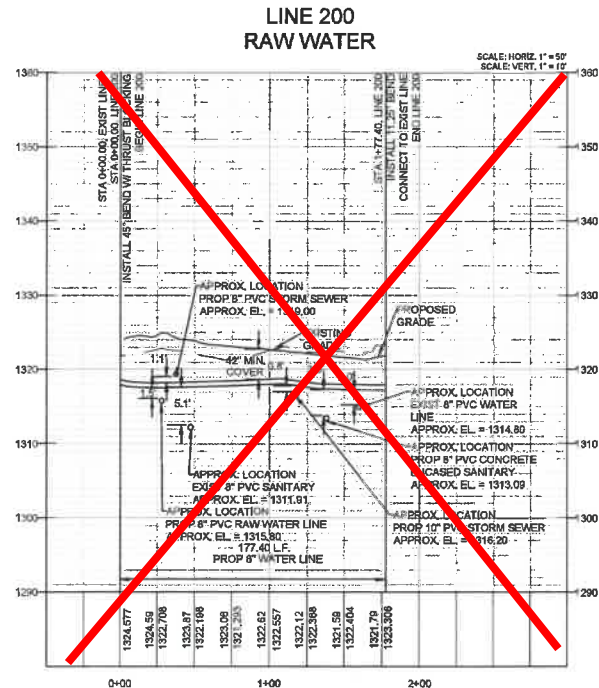
100% CD SUBMITTAL

WATER LINE NOTES:

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2. ALL VALVES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C-600 OR AWWA C-603.
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4. ALL VALVES SHALL BE INSTALLED IN ACCORDANCE WITH WICHITA STANDARDS PART 800 WATER AND SEWER SUBSECTION 803.7 VALVES.
5. ALL PIPES INSTALLED SMALLER THAN 2" ARE NOT NECESSARY TO BE APPROVED BY THE CITY OF WICHITA PPW PROCESS.



Existing water line to be tapped for Line #200 Sta. 0+00 was not located. Pearson and Conco re-located the proposed line to an existing 2" line.



AS BUILTS

KEMILLER ENGINEERING PA

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



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LEOPARD EXHIBIT

Sedgwick County Zoo
5555 W Zoo Blvd
Wichita, KS 67212

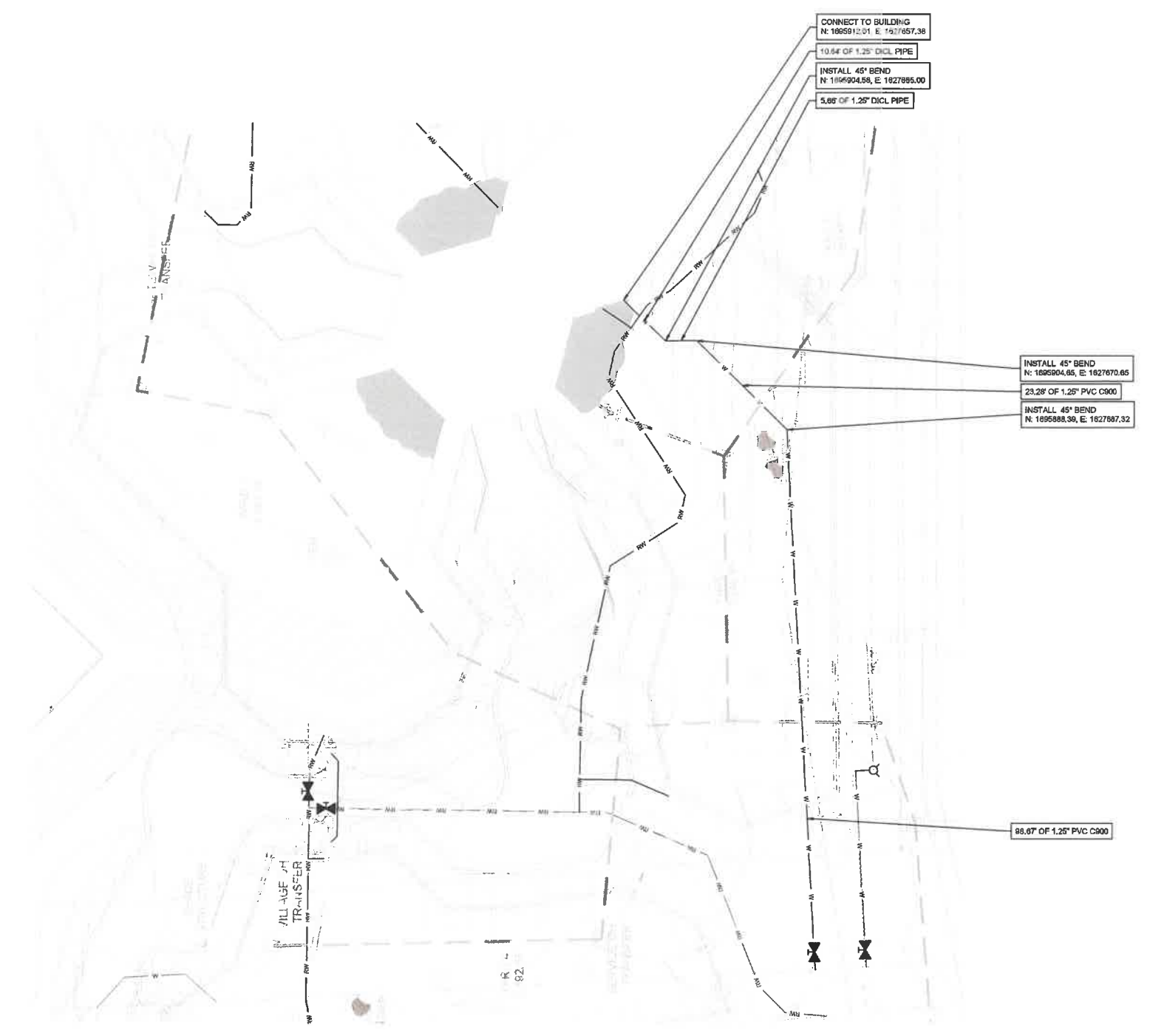
MARK	DATE	DESCRIPTION

WATER PLAN AND PROFILE

PPW3

Job No. 12010-18004
Date 10/23/2020
Drawn NLR
Checked LEG

100% CD SUBMITTAL



- WATER LINE NOTES:
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 2. ALL VALVES SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C-800 OR AWWA C-803.
 3. ALL TAPPING SLEEVES, GATE VALVES, AIR RELEASE AND VACUUM VALVES AND CORPORATION STOPS SHALL BE IN ACCORDANCE WITH PART 800 WATER AND SEWER SUBSECTION 803.3.
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LEOPARD EXHIBIT
Sedgwick County Zoo
5555 W Zoo Blvd
Wichita, KS 67212

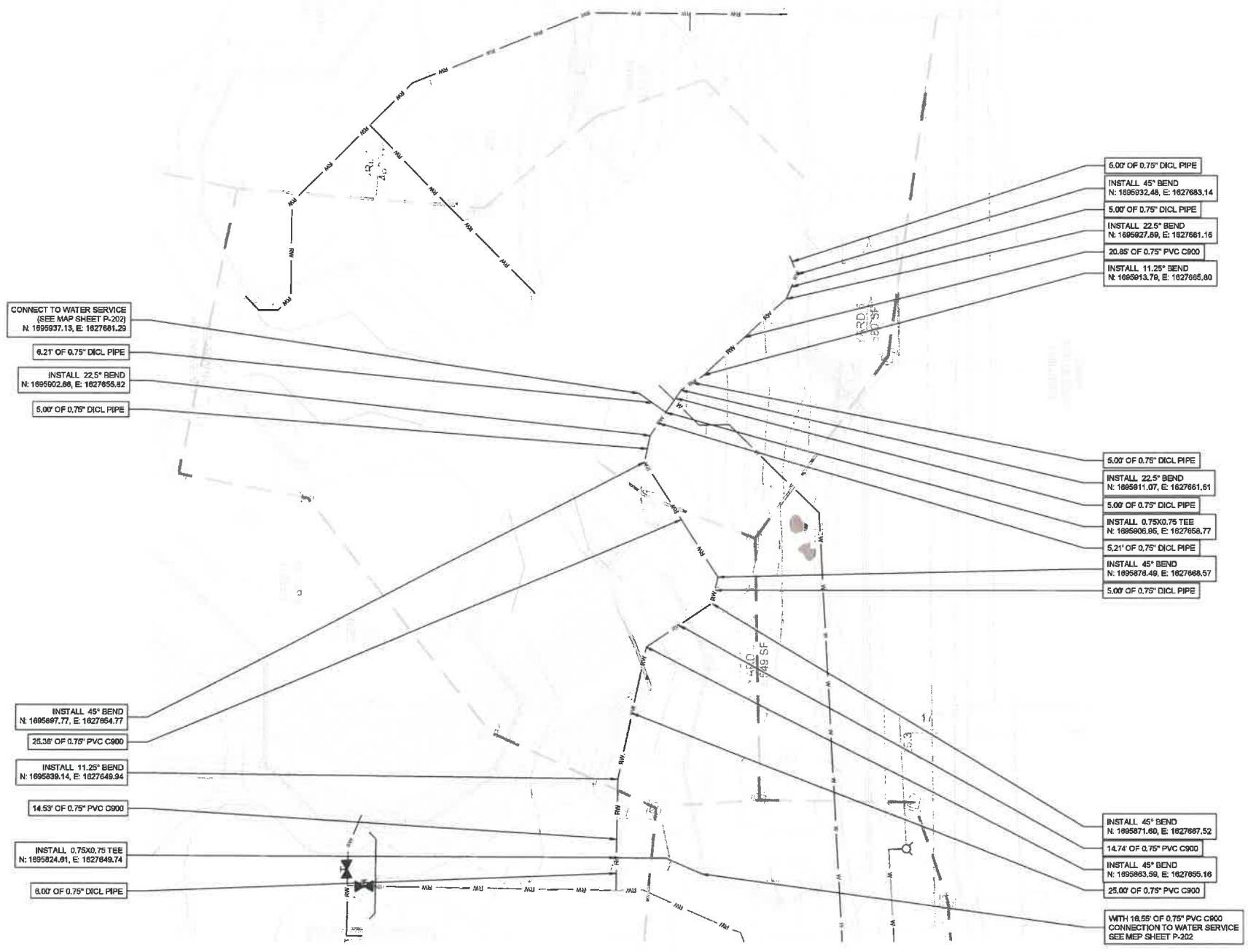
MARK	DATE	DESCRIPTION

WATER PLAN

100% CD SUBMITTAL

PPW4

Job No. 12010,18004
Date 10/23/2020
Drawn NLH
Checked LEG



CONNECT TO WATER SERVICE
(SEE MAP SHEET P-202)
N: 1895937.13, E: 1827661.29

6.21' OF 0.75" DI CL PIPE

INSTALL 22.5° BEND
N: 1895922.86, E: 1827655.82

5.00' OF 0.75" DI CL PIPE

INSTALL 45° BEND
N: 1895897.77, E: 1827654.77

25.38' OF 0.75" PVC C900

INSTALL 11.25° BEND
N: 1895839.14, E: 1827649.34

14.53' OF 0.75" PVC C900

INSTALL 0.75X0.75 TEE
N: 1895824.51, E: 1827649.74

8.00' OF 0.75" DI CL PIPE

5.00' OF 0.75" DI CL PIPE

INSTALL 45° BEND
N: 1895932.48, E: 1827683.14

5.00' OF 0.75" DI CL PIPE

INSTALL 22.5° BEND
N: 1895827.88, E: 1827661.16

20.85' OF 0.75" PVC C900

INSTALL 11.25° BEND
N: 1895913.78, E: 1827655.80

5.00' OF 0.75" DI CL PIPE

INSTALL 22.5° BEND
N: 1895911.07, E: 1827661.61

5.00' OF 0.75" DI CL PIPE

INSTALL 0.75X0.75 TEE
N: 1895906.85, E: 1827658.77

5.21' OF 0.75" DI CL PIPE

INSTALL 45° BEND
N: 1895878.49, E: 1827688.57

5.00' OF 0.75" DI CL PIPE

INSTALL 45° BEND
N: 1895871.80, E: 1827687.52

14.74' OF 0.75" PVC C900

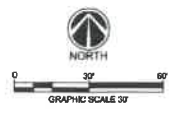
INSTALL 45° BEND
N: 1895863.59, E: 1827655.16

25.00' OF 0.75" PVC C900

WITH 18.55' OF 0.75" PVC C900
CONNECTION TO WATER SERVICE
SEE MEP SHEET P-202

RAW WATER

- WATER LINE NOTES:
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LEOPARD EXHIBIT
Sedgwick County Zoo
5555 W Zoo Blvd
Wichita, KS 67212

MARK	DATE	DESCRIPTION
1	10/23/2020	Autodesk iTools

WATER PLAN

PPW5
Job No: 12010.18004
Date: 10/23/2020
Drawn: MLH
Checked: LEG

LEOPARD EXHIBIT

Sedgwick County Zoo
5555 W Zoo Blvd
Wichita, KS 67212

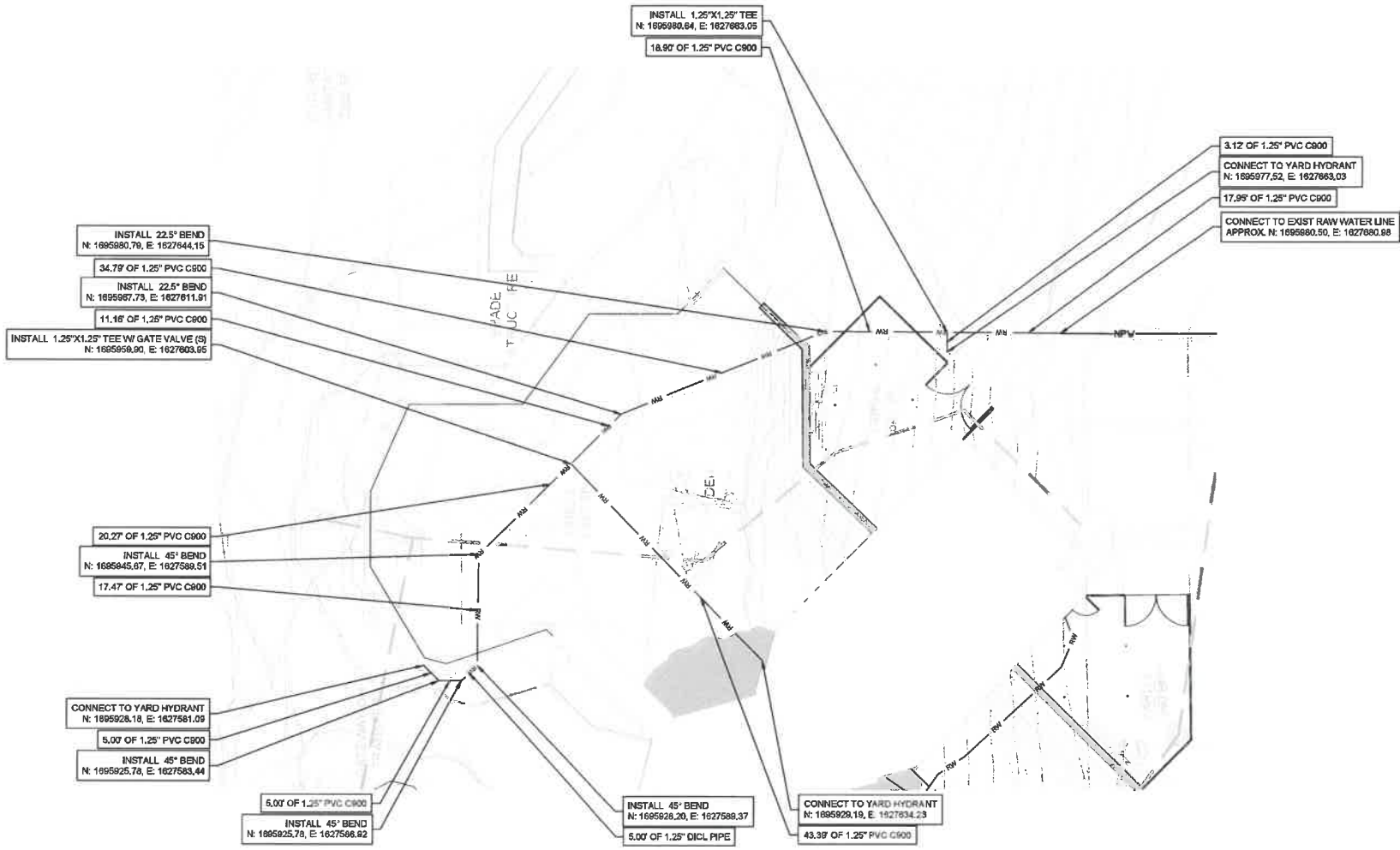
MARK	DATE	DESCRIPTION
1	10/23/2020	Submittal 1 through 7

WATER PLAN

PPW6

Job No. 12016.18904
Date 10/23/2020
Drawn NLH
Checked LEG

100% CD SUBMITTAL



RAW WATER

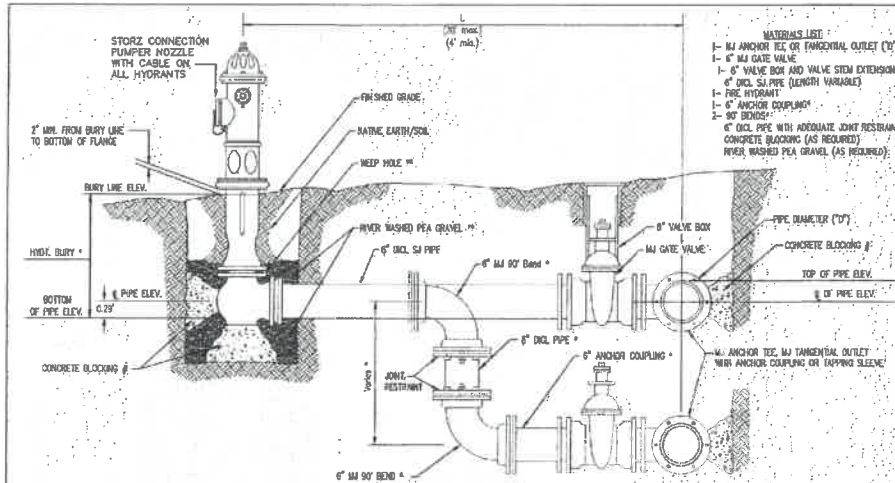


- WATER LINE NOTES:
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 4. ALL VALVES SHALL BE INSTALLED IN ACCORDANCE WITH WICHITA STANDARDS PART 800 WATER AND SEWER SUBSECTION 803.7 VALVES.
 5. ALL PIPES INSTALLED SMALLER THAN 2" ARE NOT NECESSARY TO BE APPROVED BY THE CITY OF WICHITA PPW PROCESS.

MARK	DATE	DESCRIPTION

WATER LINE DETAILS

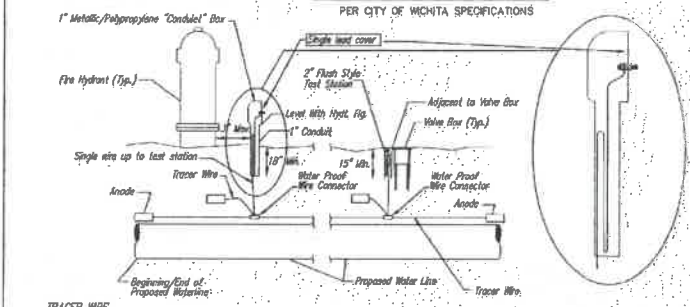
PPW7
Job No. 12010.100004
Date 10/23/2020
Drawn HLH
Checked LEG



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- 1/2\"/>

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.



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.

The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. To allow for grade adjustment, a minimum of 12\"/>

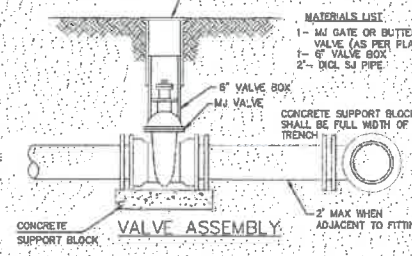
The test station for fire hydrant application shall be a 1\"/>

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

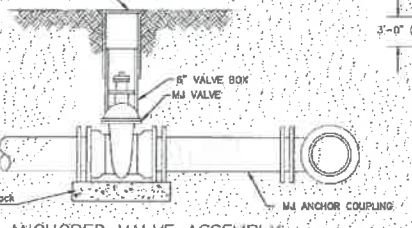
TRACER WIRE DETAIL
NOTE IS SUBSIDIARY TO PIPE INSTALLATION

Clow FH Storz

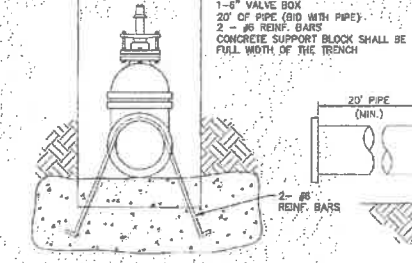
FIRE HYDRANTS REQUIRED					
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED	VALVE STEM EXT. REQUIRED (ft)	NO
0+35.84	1321.85	1318.35	YES 4'	NO	



MATERIALS LIST:
1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1- MJ ANCHOR COUPLING (12\"/>



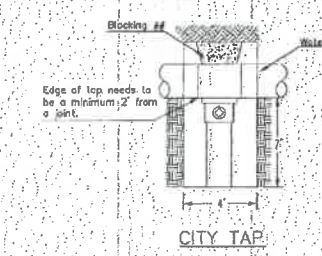
MATERIALS LIST:
1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1- MJ ANCHOR COUPLING (12\"/>



Notes:
1. Concrete block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
2. The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
3. All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

VALVE	THRUST AT 150 PSI
4"	1809 lbs.
6"	4245 lbs.
8"	7340 lbs.
12"	16385 lbs.

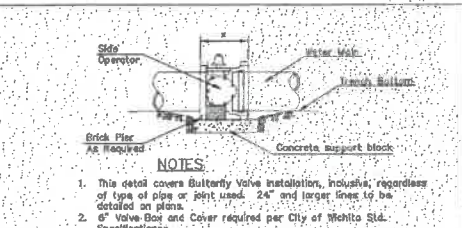
ANCHORED VALVE ASSEMBLY SPECIAL



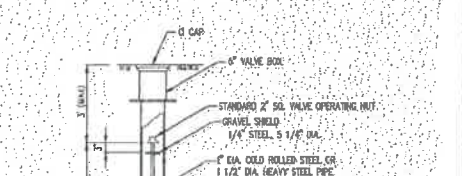
MATERIALS LIST:
1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1- 8\"/>



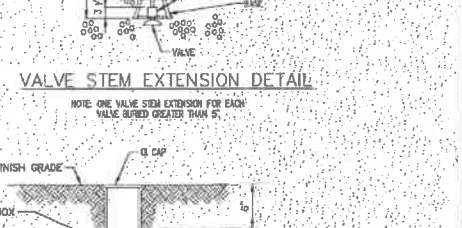
MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROPOSED WATER LINE IS LESS THAN 2' (NOT SUBSIDIARY TO PIPE INSTALLATION)



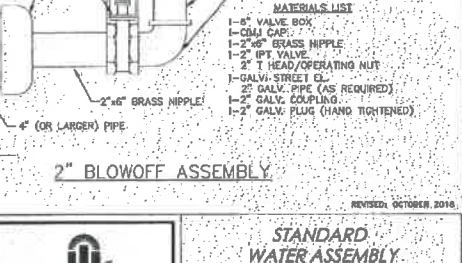
NOTES:
1. This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24\"/>



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



MATERIALS LIST:
1- 8\"/>



CITY ENGINEER: GARY JANZEN, P.E.
PROJECT NUMBER: []
CITY ENGINEER'S OFFICE: CIVIL AND SEWER/FLOOR 435 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501

