

GENERAL NOTES:

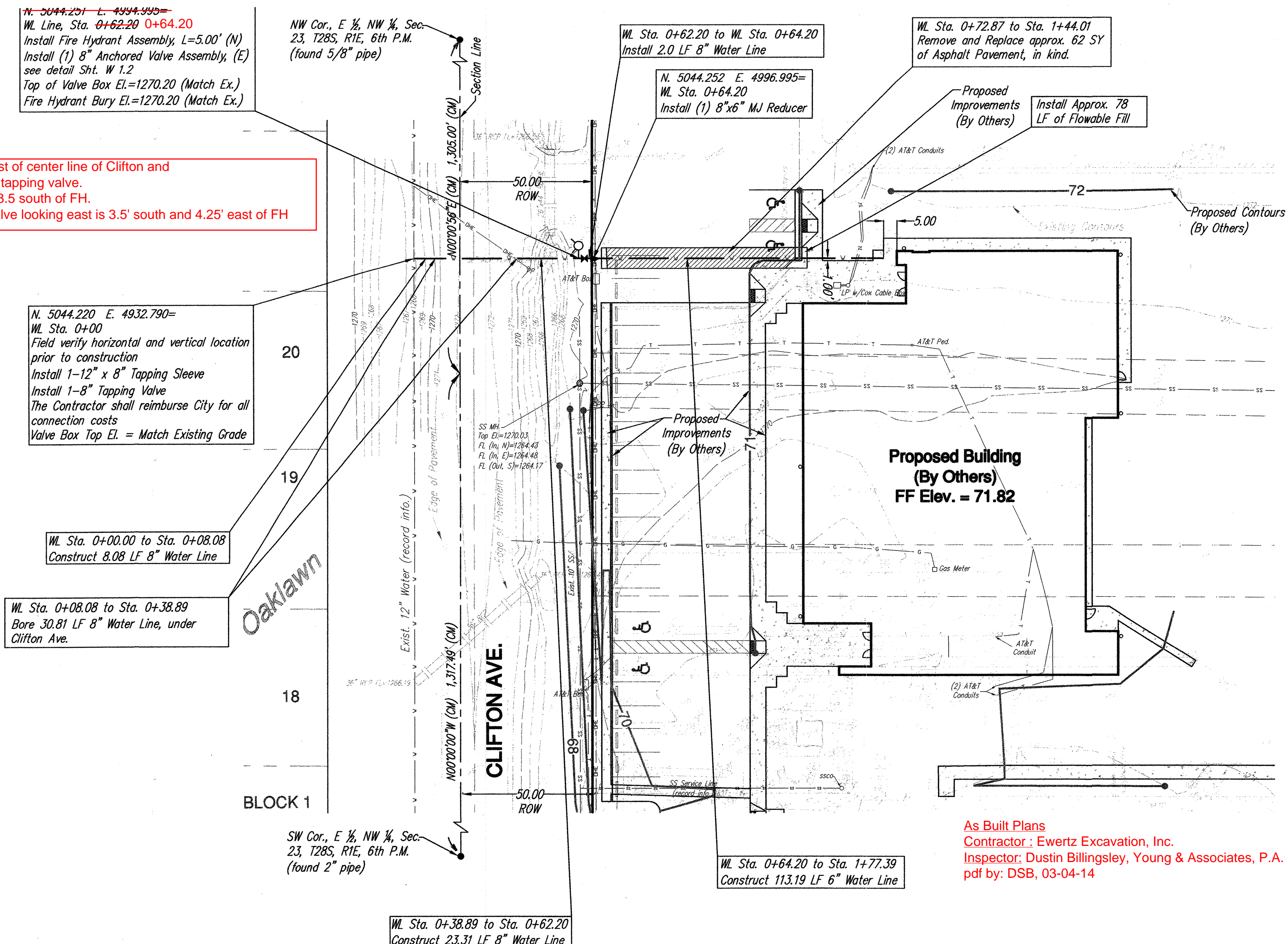
- ALL WATER LINES AND APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA, KANSAS, STANDARD SPECIFICATIONS, INCLUDING CITY OF WICHITA CONSTRUCTION OF INFRASTRUCTURE IMPROVEMENTS BY PRIVATE CONTRACT.
- CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF SEVENTY-TWO HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:
 KANSAS ONE-CALL.....(316) 687-2470
 THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:
 COX COMMUNICATIONS.....(316) 262-0661
 KANSAS GAS SERVICE.....1-888-482-4950
 AQUILA NETWORKS.....1-800-527-0357
 WESTAR ENERGY.....(316) 383-8600
 AT&T.....1-800-670-8390
 CITY OF WICHITA WATER DEPARTMENT.....(316) 268-4940
 OAKLAWN IMPROVEMENT DISTRICT.....(316) 524-0281
- PAVEMENT REMOVAL AND REPLACEMENT WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO THE WATER LINE INSTALLATION. WHEN PAVEMENT REMOVAL IS REQUIRED, THE CONTRACTOR SHALL REPLACE IT IN KIND, REGARDLESS OF WIDTH, PAVEMENT TYPE AND/OR THICKNESS. THE MINIMUM LIMITS OF REMOVAL SHALL BE ONE FOOT BEYOND THE PIPELINE TRENCH. REMOVAL AND REPLACEMENT OF EXISTING PAVEMENT SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CITY OF WICHITA STANDARD SPECIFICATIONS. CURB & GUTTER REMOVAL AND REPLACEMENT SHALL ALSO BE CONSIDERED SUBSIDIARY TO THE LUMP SUM PRICE BID FOR THE PROJECT.
- EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST AVAILABLE INFORMATION. IT SHOULD BE NOTED THAT OTHER BURIED LINES AND CABLE MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES AND CABLES. ANY UTILITIES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE. 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.
- EXISTING WATER LINE DEPTHS THROUGHOUT THE PROJECT VARY. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER LINES AT THE CONNECTION. IF THE LOCATION OF THE EXISTING WATER LINE IS IN CONFLICT WITH THE PROPOSED WATER LINE DESIGN, THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO NECESSARY PLAN MODIFICATIONS CAN BE MADE. CARE SHOULD BE TAKEN SO THE WATER LINES ARE NOT DAMAGED DURING CONSTRUCTION. ALL COSTS ASSOCIATED WITH LOCATING WATER LINES AND ADJUSTING THE PROPOSED WATER LINE PROFILE AS REQUIRED WILL BE SUBSIDIARY TO WATER LINE, COMPLETE IN PLACE.
- GAS LINE DEPTHS THROUGHOUT THE PROJECT VARY. THE CONTRACTOR SHALL EXPOSE THE EXISTING GAS LINES AT ALL CROSSINGS. IF THE LOCATION OF THE GAS LINE IS IN CONFLICT WITH THE PROPOSED WATER LINE, THE CONTRACTOR SHALL REPORT HIS FINDINGS TO THE ENGINEER SO NECESSARY PLAN MODIFICATIONS CAN BE MADE. CARE SHOULD BE TAKEN SO THE GAS LINES ARE NOT DAMAGED DURING CONSTRUCTION. ALL COSTS ASSOCIATED WITH LOCATING GAS LINES AND ADJUSTING THE PROPOSED WATER LINE PROFILE AS REQUIRED WILL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR THE PROJECT.
- THE CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND IS PRESENT ON THE SITE. ANY WORK PERFORMED WITHOUT INSPECTION IS SUBJECT TO BE UNCOVERED FOR INSPECTION.
- THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ADJUTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING EXISTING PROPERTY IRONS AND RIGHT-OF-WAY MONUMENTS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS OR RIGHT-OF-WAY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS OR MONUMENTS SHALL BE RE-ESTABLISHED BY A LICENSED SURVEYOR IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR THE PROJECT.
- THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES, AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES UNLESS SHOWN OTHERWISE IN THE PLANS.
- ANY EXCESS EXCAVATION OR RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES INCLUDING ANY TREES REMOVED AND TREE TRIMMINGS SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL ALSO BE APPROVED OF BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION. LOCATIONS THAT IN THE OPINION OF THE ENGINEER, LEAVE AN UNUSUALLY 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 US CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS MAY REQUIRE ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED DISPOSAL LOCATION.
- ALL AREAS DISTURBED BY THE CONSTRUCTION OPERATION SHALL BE SEED (FESCUE OR MATCH EXISTING GRASS TYPE), FERTILIZED, AND MULCHED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF CONSTRUCTION IS COMPLETED OUTSIDE OF THE SPECIFIED "PLANTING SEASON", THEN THE CONTRACTOR SHALL PROVIDE TEMPORARY SEEDING AND MULCH IMMEDIATELY FOLLOWING CONSTRUCTION IN THE AREA.
- INTERURBAN TRAFFIC GENERATED OUTSIDE THE PROJECT AREA AND LOCAL BUSINESS OR RESIDENTIAL TRAFFIC GENERATED WITHIN THE PROJECT AREA ARE TO BE CARRIED THROUGH CONSTRUCTION AS FURTHER PROMULGATED BY THE PROJECT SPECIAL PROVISIONS. THE CONTRACTOR SHALL UTILIZE BARRICADES, SIGNS, GUARDS, AND FLAGMEN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK.
- A SAW CUT OF AT LEAST ONE-HALF THE DEPTH OF EXISTING SURFACE COURSES OR ONE-FOURTH THE DEPTH OF THE EXISTING TOTAL PAVEMENT THICKNESS SHALL BE PROVIDED AT LOCATIONS WHERE PROPOSED CONSTRUCTION ABUTS AN EXISTING SURFACE COURSE OR PAVEMENT IS REQUIRED, WHEN SUCH SAW CUTS ARE WITHIN THREE (3) FEET OF AN EXISTING JOINT THE LIMITS OF REMOVAL SHALL BE EXTENDED TO THE EXISTING JOINT. SUCH SAW CUTS WILL NOT BE PAID FOR DIRECTLY AND THIS COST WILL BE CONSIDERED SUBSIDIARY TO THE LUMP SUM PRICE BID FOR THE PROJECT.
- ALL IRRIGATION, LANDSCAPING AND FENCING DISTURBED DURING CONSTRUCTION SHALL BE REMOVED AND RESET IN KIND, BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT HOURS TO THE AFFECTED PROPERTY OWNERS PRIOR TO BEGINNING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE LUMP SUM PRICE BID FOR THE PROJECT.
- THE CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES (BMP'S) TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, OR ANY OTHER DRAINAGE FEATURE. THE CITY OF WICHITA STANDARD DETAILS FOR SOIL EROSION BMP'S ARE A PART OF THIS SET OF PLANS AND ARE INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF SOIL EROSION PROTECTION WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL BID THE PROJECT ACCORDINGLY. BMP'S SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY SOIL EROSION BMP'S DAMAGED OR DESTROYED DURING THE CONSTRUCTION PROCESS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE SUBSIDIARY TO THE LUMP SUM PRICE BID FOR THE PROJECT.
- THE CONTRACTOR SHALL SATISFY HIMSELF OF THE SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION.

HORIZONTAL CONTROL DATA:

- HCP NO. 101 - 5/8" Rebar w/Plastic Cap (found), located on the east right of way line of Clifton St., approx. 460-foot north of the southwest corner of Oaklawn Elementary property. N=-5000.000, E=-5000.000.
- HCP NO. 103 - 5/8" Rebar w/Plastic Cap (found), located at the southwest corner of Oaklawn Elementary property. N=-4539.931, E=-5000.000.
- HCP NO. 1134 - PK Nail in asphalt, Set approx. 80 foot south and 35 feet east of the southeast corner of the the existing Oaklawn Elementary building. N=-4585.138, E=-5334.380.

VERTICAL CONTROL DATA:

- BM #1 - City of Wichita Benchmark, located on the northwest corner of concrete box for school crossing signal, on the south side of 47th Street S at Clifton Street. (Not shown, outside of survey limits.) Elev.=1270.25
- BM#2 (TBM) - Chisled " " (set), at the West end of hubguard on the south side of southern most driveway into Oaklawn Elementary. Elev.=1270.92



WATER LINE IMPROVEMENTS TO SERVE OAKLAWN ELEMENTARY

Being a portion of the E 1/2 of the NW 1/4 of Section 23, TWP. 28 S. R. 1 E. (E. of Clifton Ave. Approx. 1275-foot S. of 47th St. South)

Private Project No. 1712 PPW 607853

City of Wichita
Sedgwick County, Kansas
GARY JANZEN, PE, CITY ENGINEER

INDEX OF SHEETS:

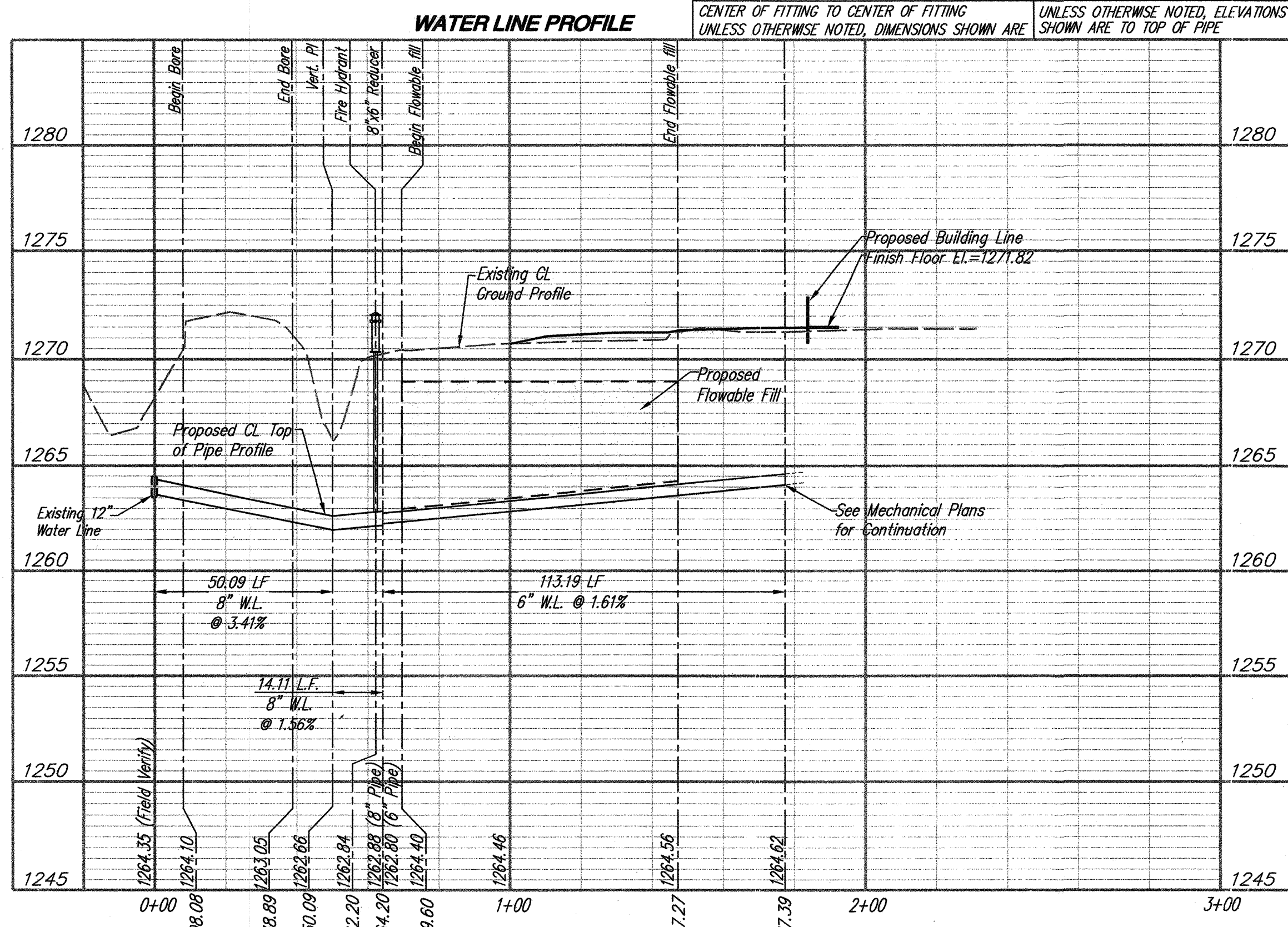
- WATER LINE PLAN / PROFILE..... Wl. 1.1
- STANDARD WATER ASSEMBLY DETAILS..... Wl. 1.2

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA,
BY WICHITA WATER & SEWER DEPARTMENT,
& BY SEDGWICK COUNTY FIRE DEPARTMENT

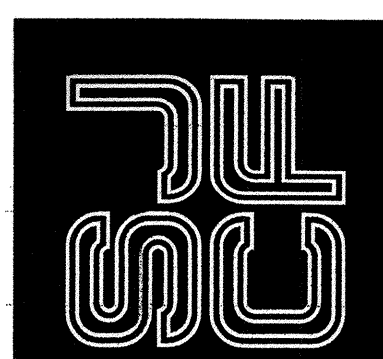
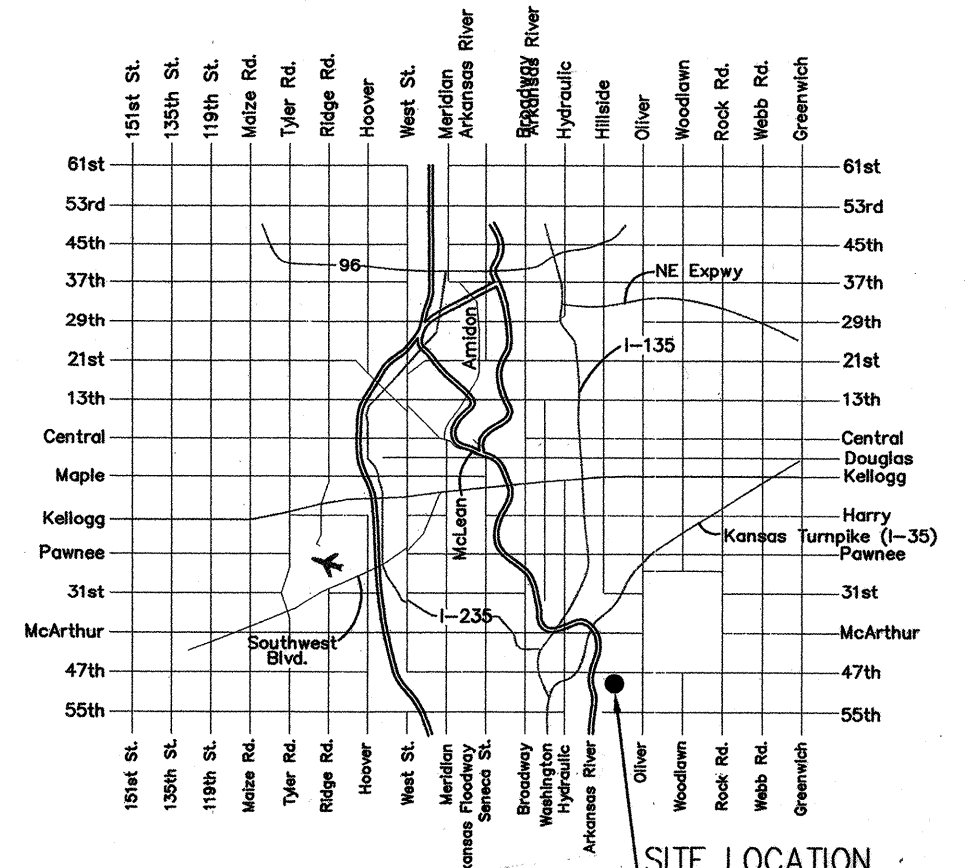
Public Works: [Signature] 1-23-13
Water & Sewer: [Signature] 1-24-13
Fire: [Signature] 1-23-13

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 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 the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).

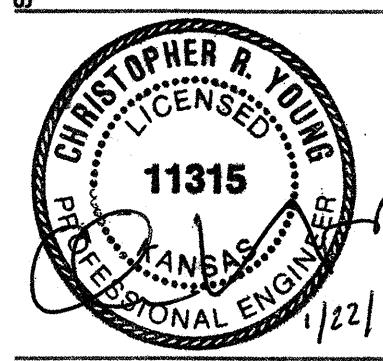
Private Property:
Installation and testing for the fire protection line is to be performed by a Sedgwick County licensed fire protection contractor in accordance with the fire codes as adopted by the Sedgwick County. All material and construction practices for the fire protection line shall comply with the fire codes as adopted by the Sedgwick County Fire Department. The Contractor shall not commence work without notification and approval of the Sedgwick County 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.



CITY OF WICHITA PRIVATE PROJECT NO.: 1712 PPW 607853



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Wichita, Kansas 67202
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PLAN & PROFILE
USD 260
OAKLAWN ELEMENTARY
5000 S. CLIFTON AVE.
WICHITA, KANSAS 67216

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Revisions

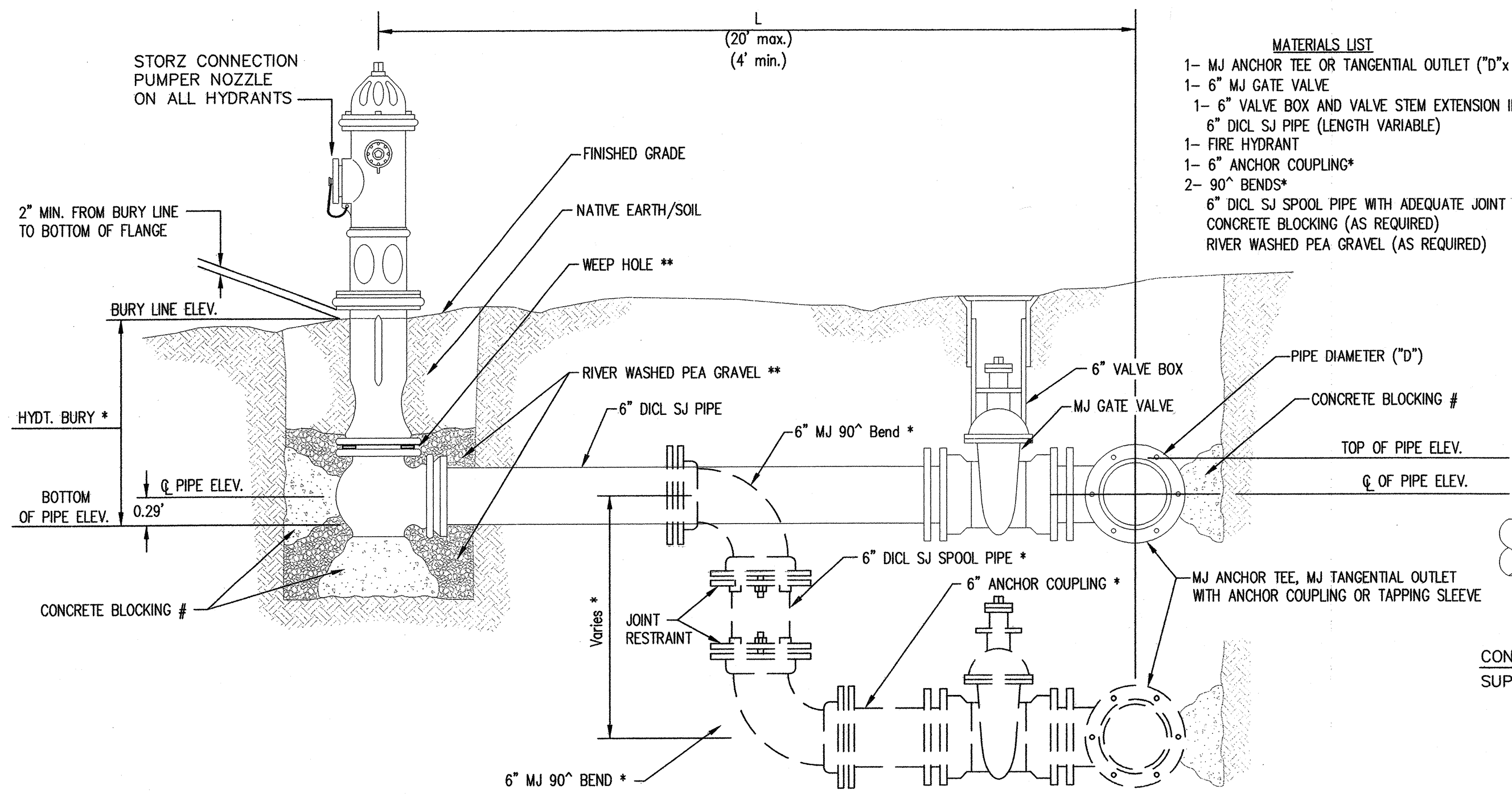
1	As Shown
2	As Shown
3	As Shown
4	As Shown
5	As Shown

Project Number
SJCF 5005.07

Date
22 JANUARY 2013

OAKLAWN ELEM. WATER LINE PLAN & PROFILE

1" = 30'



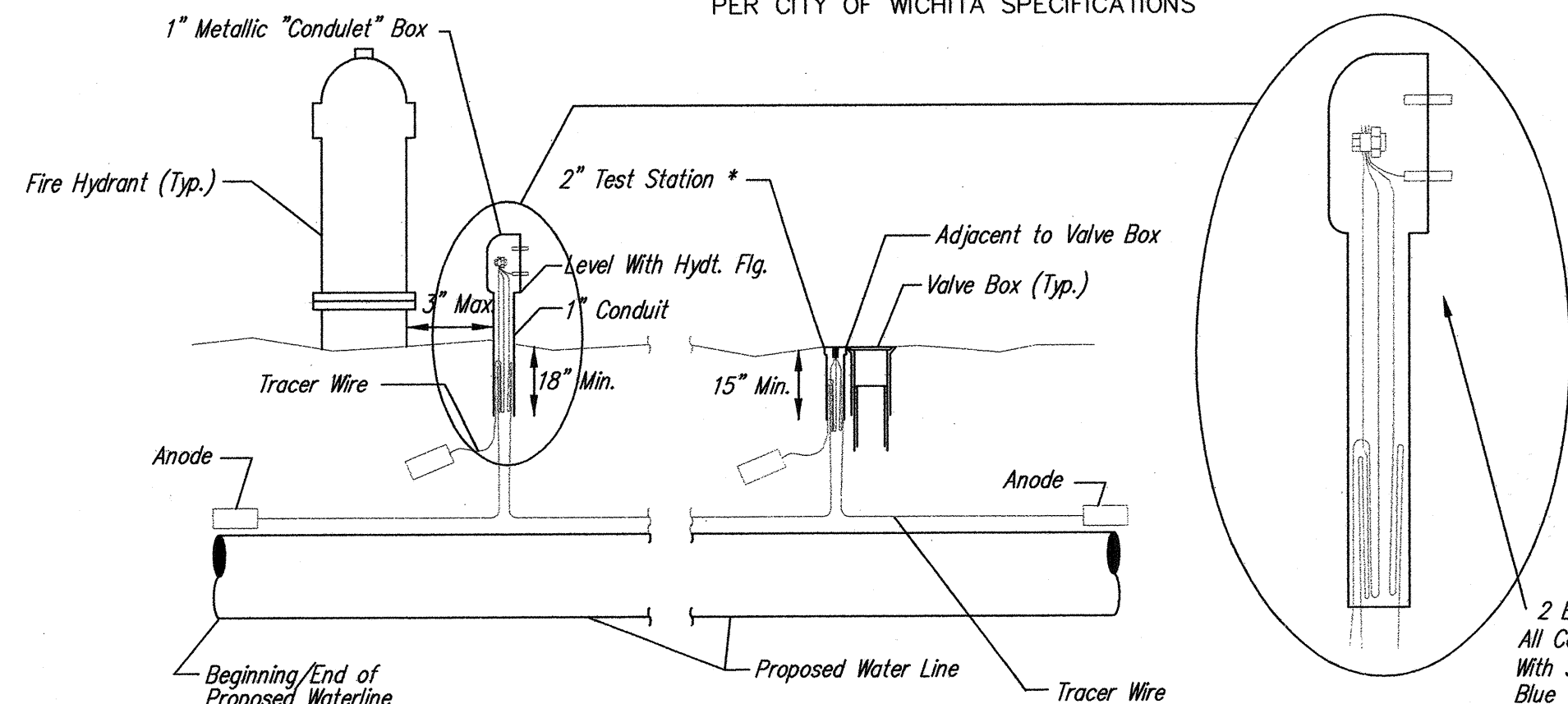
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET ("0"x 6")
 - 1- 6" MJ GATE VALVE
 - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6" DI CL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6" ANCHOR COUPLING*
 - 2- 90° BENDS*
 - 6" DI CL SJ SPOOL PIPE WITH ADEQUATE JOINT RESTRAINT *
 - 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 SPOOL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS, ROD AND LUG 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. Split-bolt connectors shall be used at splice locations. Electrical tape shall cover all splices so no bare wire is exposed. Test stations shall be installed adjacent to all fire hydrants along the waterline and at blowoffs or valves near the ends of the waterlines. Any exceptions to the location of test stations shall be approved by the engineer. At each test station, the tracer wire shall be connected to a 3 lb. Zinc or magnesium anode. Anodes shall also be attached to the tracer wire at both the beginning and the end of the proposed waterline. A typical layout of the tracer wire and test station is provided in the above figure.

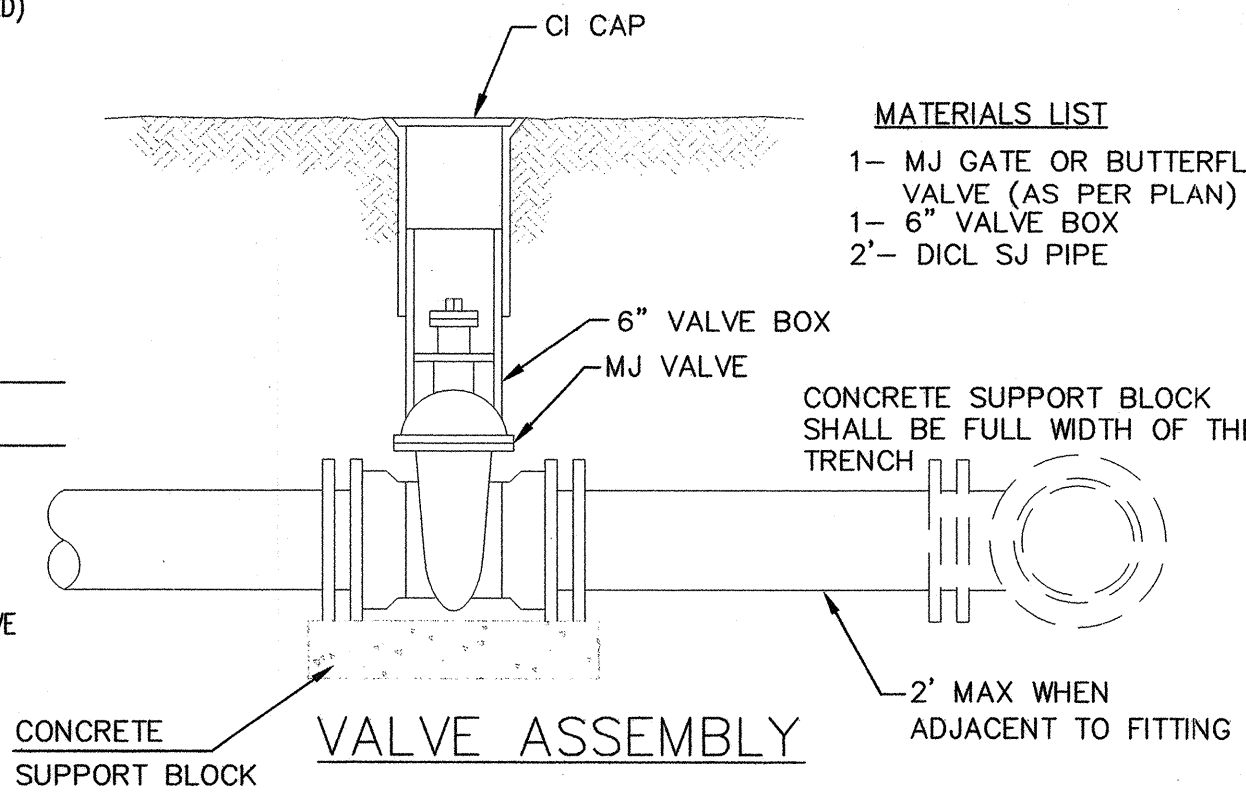
WIRE
The tracer wire shall be Blue No. 12 THHN annealed soft copper wire with thermal plastic insulation or Blue No. 12 AWG CCS with 30 mil HDPE insulation. The insulation shall be heat, oil, and gasoline resistant as manufactured by Temple Electric or approved equal. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. The insulation sheathing shall be removed such that 1" bare copper wire is at all points of connection. 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 applications shall be a 1 inch galvanized "conduit" style test station as manufactured by AGRA Industries with a removable solid cover having two leads extending from the face or approved equal. The test station for valve applications shall be 2 inch flush style test station T2PS3B as manufactured by HANDLEY Industries or approved equal. The "conduit" style test station shall be attached to a 1 inch 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. 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 10 inches of wire within the test station. In concrete environments such as sidewalks or in the downtown area the contractor shall use the flush style test station. The location of all test stations shall be approved by the engineer, recorded, and shown in the as-built drawings.

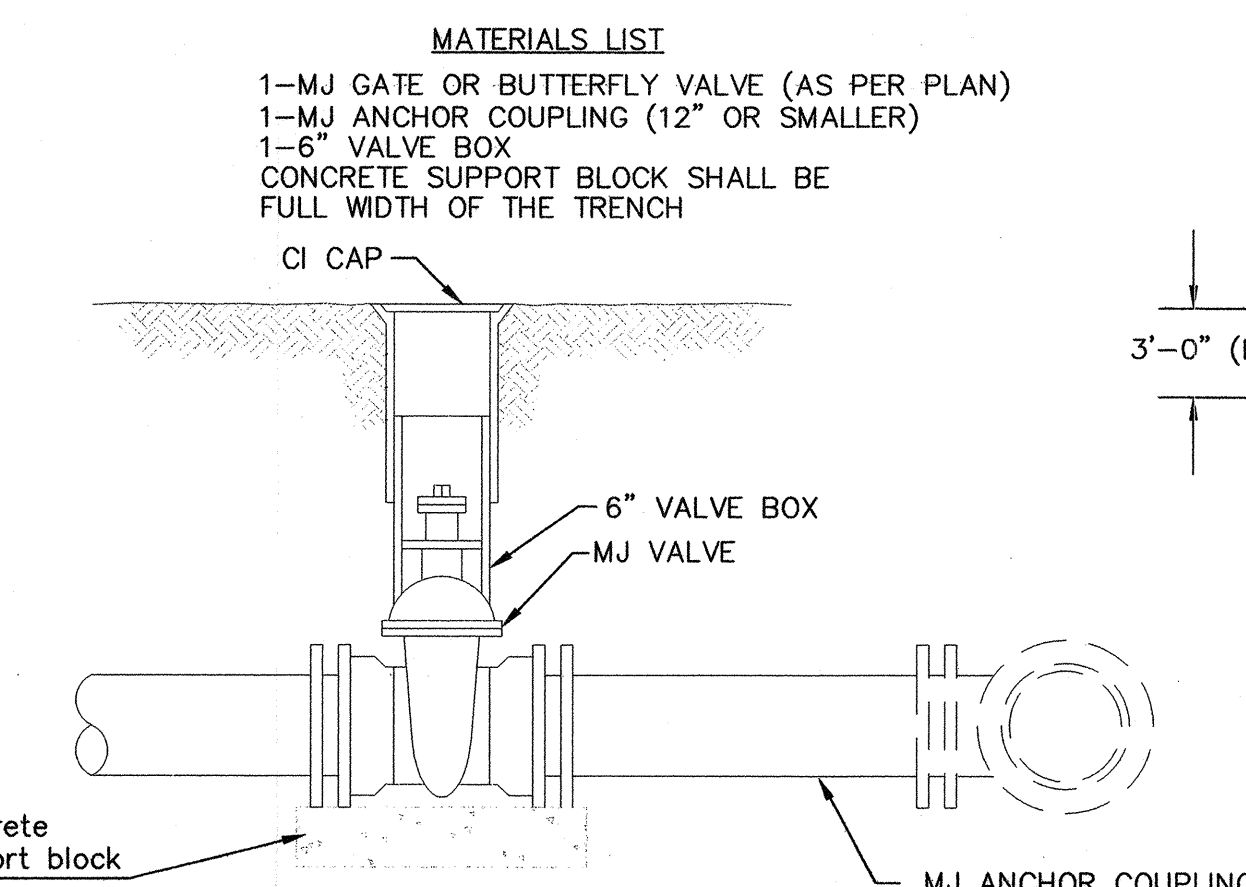
ANODES
The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to Black No. 12 THHN annealed soft copper wire which shall be extended to the test station.

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)*
0+62.20	1270.20	1264.32	6.46	

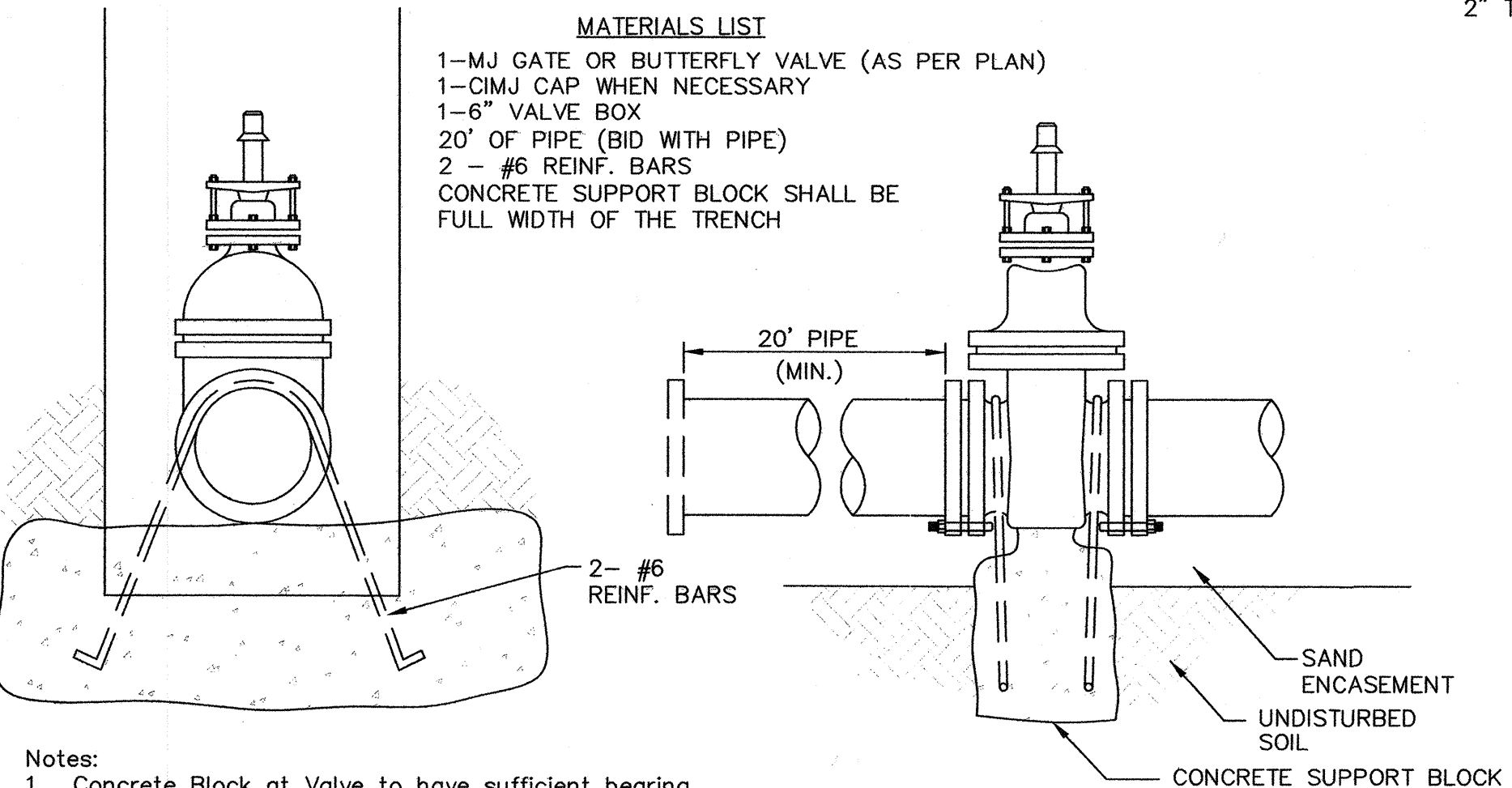


- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1- 6" VALVE BOX
 - 2'- DI CL SJ PIPE



- MATERIALS LIST**
- 1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1-MJ ANCHOR COUPLING (12" OR SMALLER)
 - 1-6" VALVE BOX
 - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

ANCHORED VALVE ASSEMBLY

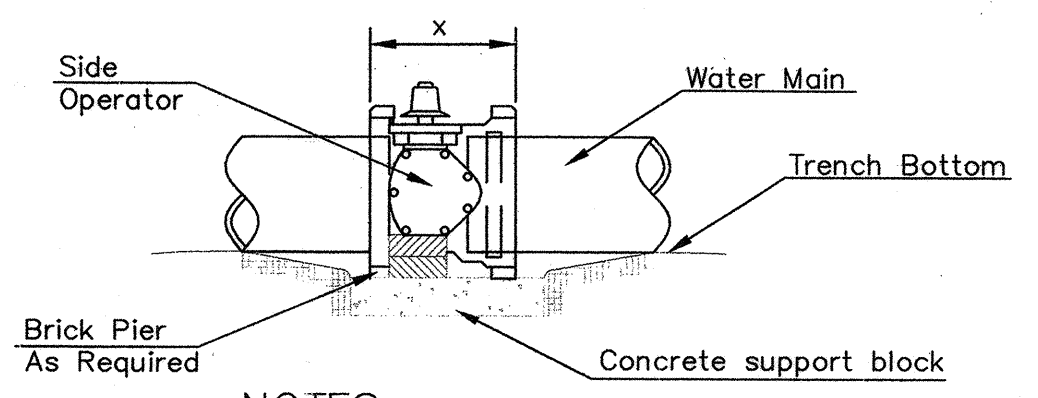


- MATERIALS LIST**
- 1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1-CIMJ CAP WHEN NECESSARY
 - 1-6" VALVE BOX
 - 20' OF PIPE (BID WITH PIPE)
 - 2 - #6 REINF. BARS
 - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

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

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.

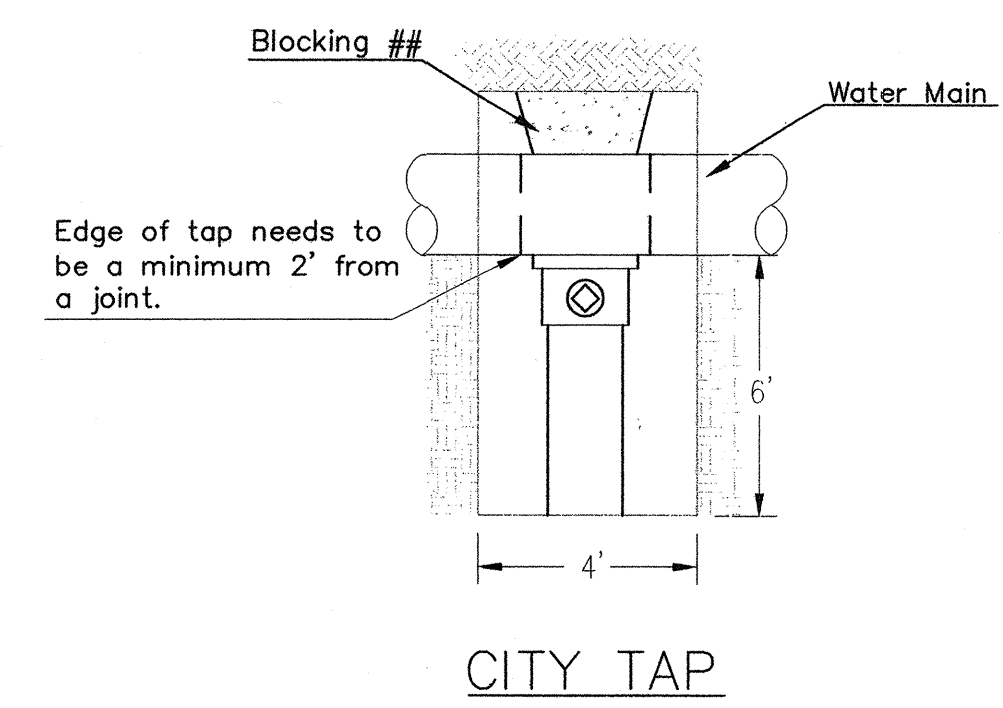
ANCHORED VALVE ASSEMBLY, SPECIAL



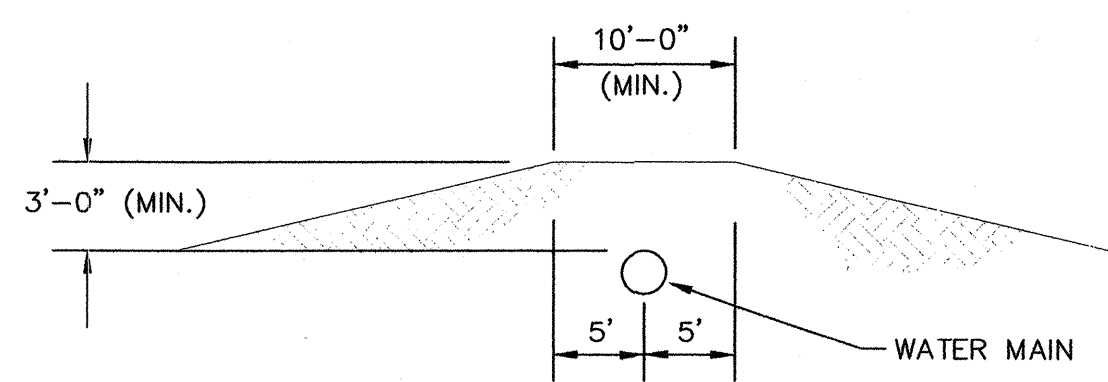
NOTES

- 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.

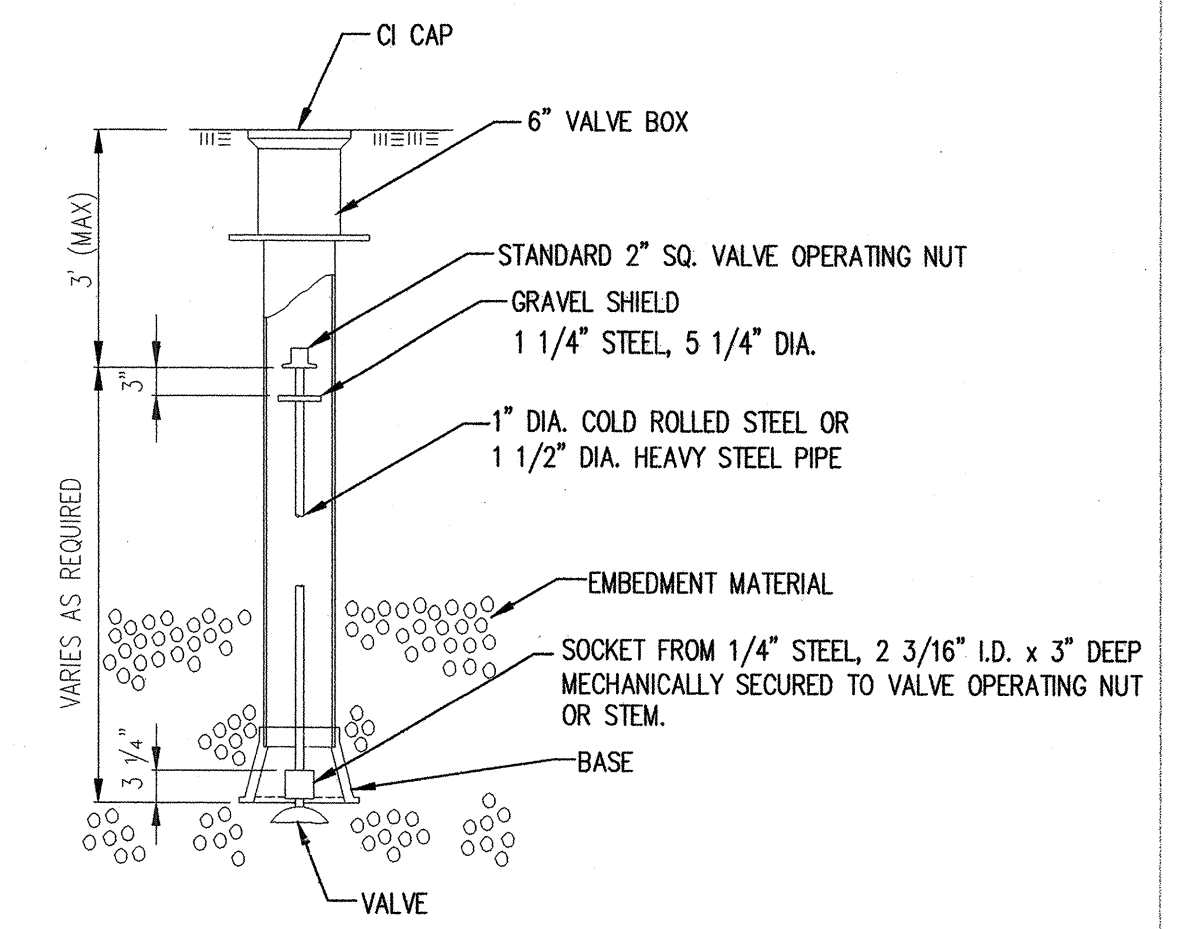
CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



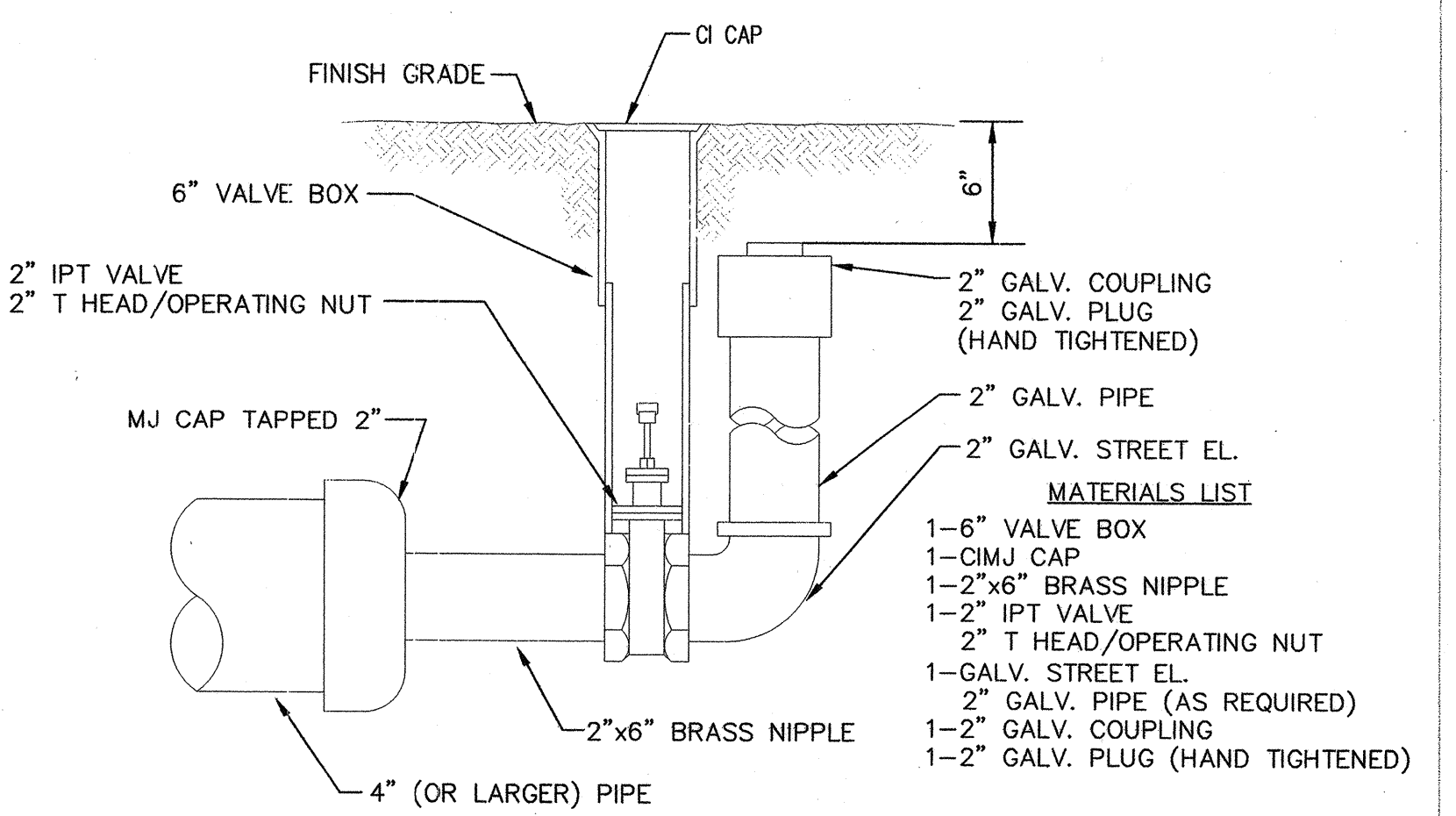
When the City of Wichita makes tap, blocking is to be done by Contractor



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)



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



2" BLOWOFF ASSEMBLY

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

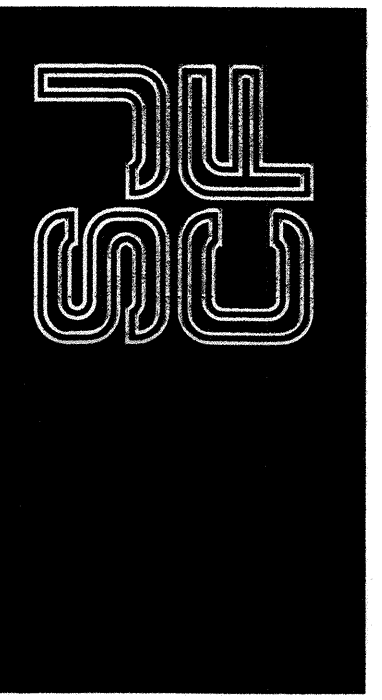
STANDARD WATER ASSEMBLY DETAIL

CITY ENGINEER
GARY JANZEN, PE

PROJECT NUMBER	OCA NUMBER	DATE
		12/2011

CITY ENGINEER'S OFFICE
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455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
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SHEET
2 of 2



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USD 260
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Revisions

1	2	3	4

Project Number
SJCF 5005.07

Date
22 JANUARY 2013

STANDARD WATER ASSEMBLY DETAILS

WL 1.2