

# WATER MAIN IMPROVEMENTS FOR WICHITA MID-CONTINENT AIRPORT SOUTH MAINTENANCE YARD WICHITA, SEDGWICK COUNTY, KANSAS

## PROJECT NO. 452-426 CITY OF WICHITA PRIVATE PROJECT NO.: 1738 PPW (O.C.A. NO. 607853), GARY JANZEN, P.E., CITY ENGINEER APRIL 2014

AS BUILT PLANS  
CONTRACTOR: WILDCAT CONSTRUCTION  
INSPECTOR: RANDY VOTH, C.E.D.  
PDF BY: C.C. 2-4-15

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5	STANDARD WATER DETAILS

### GENERAL NOTES

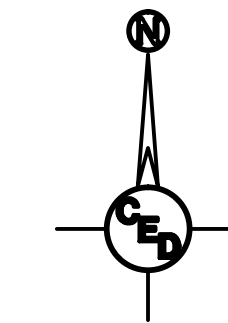
1. WATERLINES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF WICHITA STANDARD SPECIFICATIONS, FOR THE "INSTALLATION OF WATER DISTRIBUTION SYSTEMS", NO. 14533.
2. ALL ELEVATIONS SHOWN ARE BASED ON NAVD88.
3. CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FORTY-EIGHT(48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

KANSAS ONE CALL      687-2470

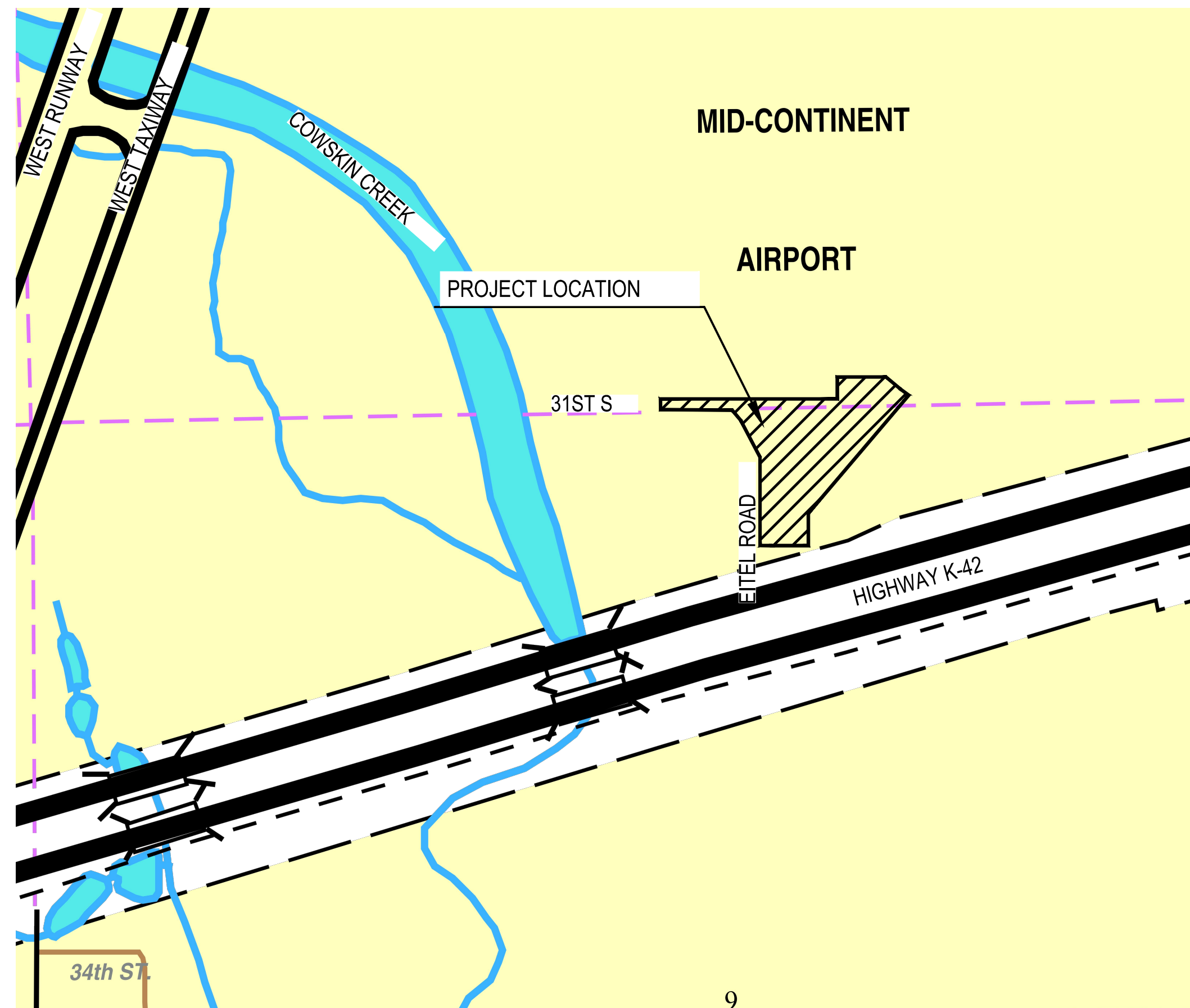
THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

COX COMMUNICATIONS	262-4270 OR 263-2061
AT&T	1-800-670-8390
KANSAS GAS SERVICE	1-888-482-4950
WESTAR	1-800-383-1183
BLACK HILLS ENERGY	1-800-303-0752
CITY OF WICHITA (WATER & SEWER)	268-4555

4. ANY EXCESS EXCAVATION WHICH IS TO BE WASTED, SHALL BE DISPOSED OF ON SITES PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE, AND SITE LOCATION, AND SHALL BE DISPOSED OF IN ACCORDANCE WITH THE PROVISIONS OF THE KANSAS SOLID WASTE MANAGEMENT STATUTES AND REGULATIONS (KSA 65-3401, KAR 28-29-1 ET SEQ.)
5. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR WILL DELIVER REMOVED FIRE HYDRANTS TO WATER DISTRIBUTION, 1703 SIM PARK DRIVE.
6. CONTRACTOR TO MAINTAIN TRAFFIC USING BARRICADES AND FLAGPERSONS WHILE WORKING WITHIN STREET RIGHT OF WAY.
7. ALL AREAS DISTURBED BY CONSTRUCTION INCLUDING STAGING AREAS, SHALL BE REPLANTED WITH GRASS SEED AT THE APPROPRIATE RATES APPROVED BY THE ENGINEER
8. 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.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING EXISTING PROPERTY IRONS AND RIGHT-OF-WAY MONUMENTS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH 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 LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
10. THE CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION, TYPE, SIZE, AND CLASS OF EXISTING WATERLINES PRIOR TO CONSTRUCTION. EXISTING WATERLINE LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL MAKE ADJUSTMENTS AS REQUIRED AND APPROVED BY THE ENGINEER. PROVISIONS FOR AND INSTALLATION OF PIPE ADAPTORS, SHORT SECTIONS OF PIPE, AND COUPLERS SHALL BE SUBSIDIARY TO OTHER PAY ITEMS OF WORK.
11. 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.
12. OPENING AND CLOSING 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. PROJECT INSPECTOR MUST ASCERTAIN THAT ANY VALVE CLOSED BY THE CONTRACTOR IS REOPENED, CONTRACTOR WILL BE PERMITTED TO OPERATE WATER VALVES ONLY WHEN THE PROJECT INSPECTOR ASSIGNED TO THE PROJECT IS PRESENT.
13. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENNANTS OF DEVELOPED PROPERTY DIRECTLY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
14. 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.
15. ALL WATERLINES SHALL HAVE A MINIMUM DEPTH OF BURY OF 48 INCHES. THE WATER MAIN SHALL BE CONSTRUCTED ON THE ALIGNMENT SHOWN BY THE PLANS. THE COST FOR ANY NECESSARY TREE TRIMMING, CLEARING AND/OR GRUBBING SHALL BE INCLUDED IN THE PRICE BID FOR THE INSTALLED WATER MAIN PIPE. TREES AND SHRUBS IN PUBLIC RIGHT OF WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE PRICE BID FOR THE INSTALLED WATER PIPE. TREES AND SHRUBS NOT IN DIRECT CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.
16. INSPECTOR WILL NOTE ON AS BUILT PLAN LOCATIONS OF ALL FITTINGS AND VALVES. LOCATIONS WILL BE MEASURED FROM PROPERTY LINES, CURB LINES, AND/OR CENTER LINES. HYDRANT BRANCH LENGTH AND HYDRANT BURY LINE ELEVATION ARE TO MATCH FIELD CONDITIONS AND BE APPROVED BY THE ENGINEER.



KS: 1-800-344-7233  
WICHITA: 316-687-2470



PROJECT LOCATED IN  
NE 1/4, SEC. 9, T.28S., R.1.W.  
SEDGWICK COUNTY, KANSAS

APPROVED AS NOTED BY CITY ENGINEER OF WICHITA	
Sanitary Sewers	
Storm Sewers	
Driveway Approaches	
Water Mains	<i>Greg Tolley 04-22-13</i>
Fire Department	<i>Randy Voth 4-22-2013</i>
Engineering	<i>Julianne Kellman 4-22-13</i>
<b>NOTE TO CONTRACTOR</b>	
INSPECTION AND TESTING FOR THIS PROJECT 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 LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OR THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.	

<b>Control Point &amp; Benchmark #1</b> 1/2" x 24" Rebar with Savoy Plastic Cap Elevation = 1312.41(NAVD88) N. 1667220.8103 E. 1620744.7579	<b>Control Point &amp; Benchmark #3</b> 1/2" x 24" Rebar with Savoy Plastic Cap Elevation = 1317.64(NAVD88) N. 1667395.1610 E. 1621852.3090
<b>Control Point &amp; Benchmark #2</b> 1/2" x 24" Rebar with Savoy Plastic Cap Elevation = 1315.01(NAVD88) N. 1667394.2830 E. 1620911.7240	<b>Control Point &amp; Benchmark #4</b> 1/2" x 24" Rebar with Savoy Plastic Cap Elevation = 1317.11(NAVD88) N. 1667152.9810 E. 1621707.4130

REV.	DESCRIPTION	DATE

**SOUTH MAINTENANCE  
YARD IMPROVEMENTS  
& PARKING LOT  
RECONSTRUCTION**

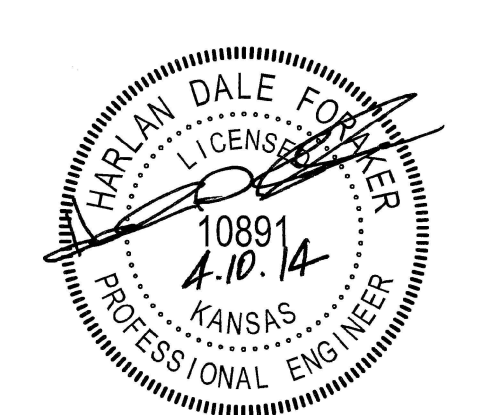
**WICHITA  
MID-CONTINENT  
AIRPORT**

SEDGWICK COUNTY, KANSAS

CERTIFIED ENGINEERING DESIGN, P.A.  
CIVIL ENGINEERING SERVICES



1935 WEST MAPLE STREET  
WICHITA, KANSAS 67213  
PH.(316)262-8808 FAX.(316)262-1669



BID DRAWINGS

PROJECT NO.: 20122036  
ISSUE DATE: APRIL 2014  
CONTACT: H FORAKER  
DRAWN BY: CC, CKW | CHECKED BY: HDF

FILE LOCATION: S:\Drawing Files\Land Projects CC 11-17-08\WASouthMainFacility\DWG\PPW.dwg    TAB NAME: TITLESHEET    USER: gspodrich    SAVED: 3/28/2014 3:34 PM    PLOTTED: 4/10/2014 1:57 PM

VALVE 1: 72' WEST & 6.5' NORTH OF THE NORTHWEST CORNER OF MAINTENANCE GARAGE.  
 VALVE 2: 3' NORTH & 3.5' WEST OF VALVE 1. TESTING STATION.  
 VALVE 3: 27' WEST & 9' SOUTH OF THE SOUTHWEST CORNER OF BUILDING 3.  
 VALVE 4: 12' WEST & 3' NORTH OF THE SOUTHWEST CORNER OF BUILDING 3. TESTING STATION.  
 VALVE 5: 2.2' WEST & 5.2' NORTH OF THE NORTHWEST CORNER OF MAINTENANCE GARAGE.  
 FIRE HYDRANT 1: 2.2' WEST & 3.2' NORTH OF THE NORTHEAST CORNER OF MAINTENANCE GARAGE.

AS BUILT PLANS  
 CONTRACTOR: WILDCAT CONSTRUCTION  
 INSPECTOR: RANDY VOTH, C.E.D.  
 PDF BY: C.C. 2-4-15

Control Point & Benchmark #1  
 1/2" x 24" Rebar with Savoy Plastic Cap  
 Elevation = 1312.41(NAVD88)  
 N. 1667220.8103  
 E. 1620744.7579

Control Point & Benchmark #2  
 1/2" x 24" Rebar with Savoy Plastic Cap  
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 N. 1667394.2830  
 E. 1620911.7240

Control Point & Benchmark #3  
 1/2" x 24" Rebar with Savoy Plastic Cap  
 Elevation = 1317.64(NAVD88)  
 N. 1667395.1610  
 E. 1621852.3090

Control Point & Benchmark #4  
 1/2" x 24" Rebar with Savoy Plastic Cap  
 Elevation = 1317.11(NAVD88)  
 N. 1667152.9810  
 E. 1621707.4130

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SOUTH MAINTENANCE YARD IMPROVEMENTS & PARKING LOT RECONSTRUCTION

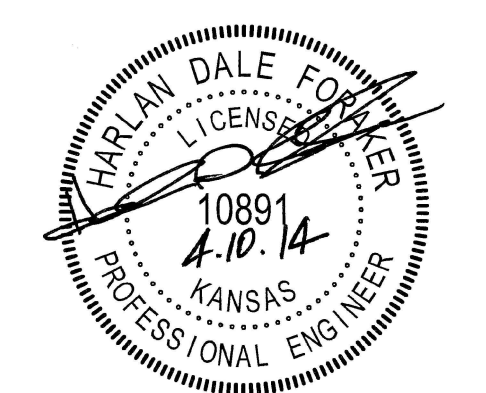
WICHITA MID-CONTINENT AIRPORT

SEDGWICK COUNTY, KANSAS

CERTIFIED ENGINEERING DESIGN, P.A.  
 CIVIL ENGINEERING SERVICES



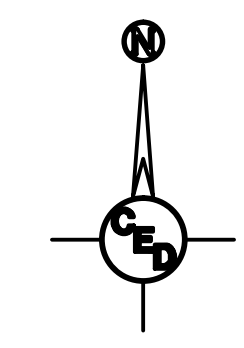
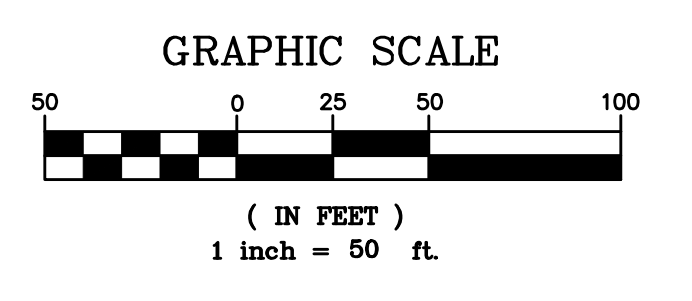
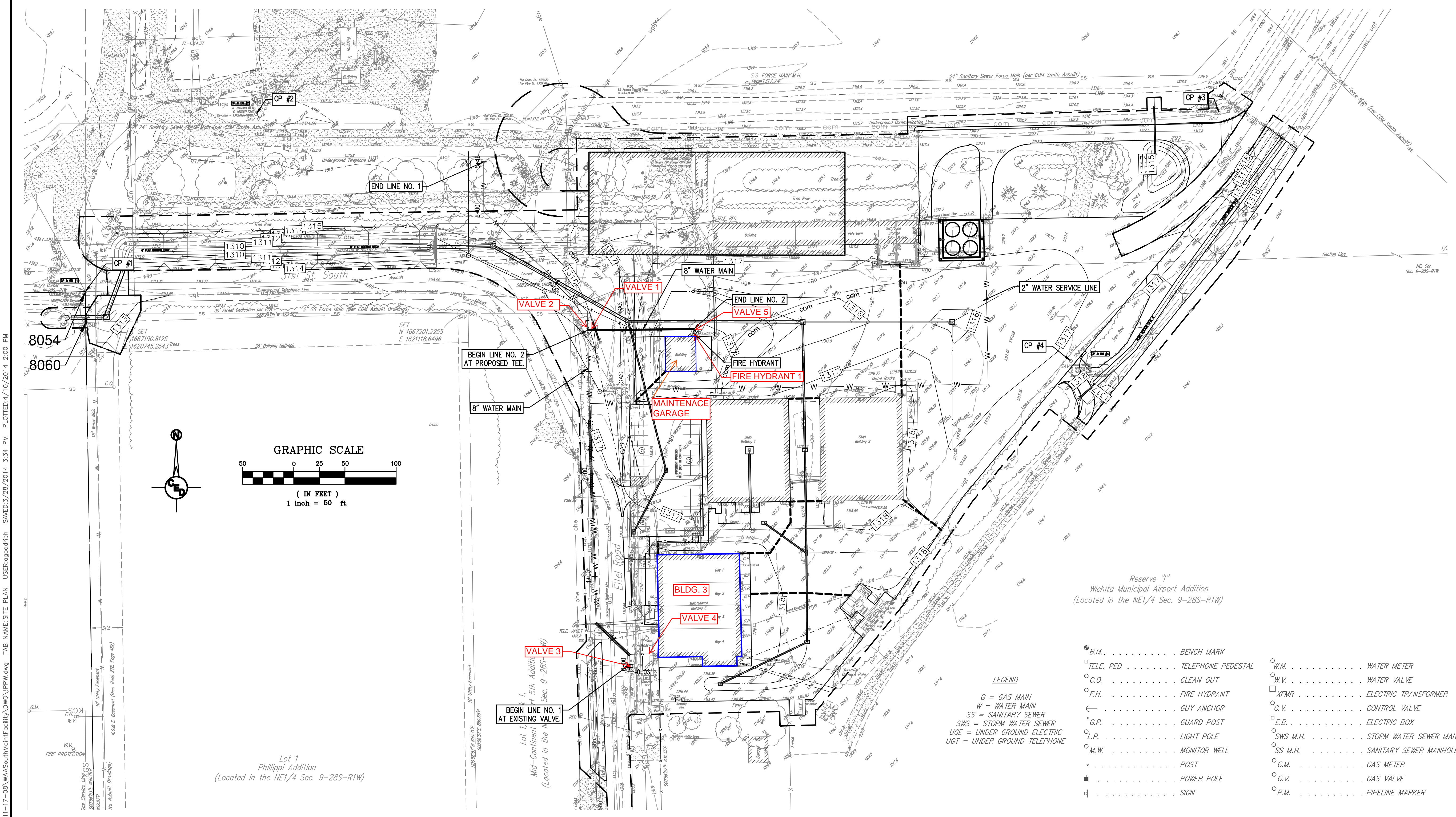
1935 WEST MAPLE STREET  
 WICHITA, KANSAS 67213  
 PH.(316)262-8808 FAX.(316)262-1669



BID DRAWINGS

PROJECT NO.: 20122036  
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 CONTACT: H FORAKER  
 DRAWN BY: CC, CKW | CHECKED BY: HDF

**SITE PLAN**



Reserve "I"  
 Wichita Municipal Airport Addition  
 (Located in the NE 1/4 Sec. 9-28S-R1W)

**LEGEND**

- G = GAS MAIN
- W = WATER MAIN
- SS = SANITARY SEWER
- SWS = STORM WATER SEWER
- UGE = UNDER GROUND ELECTRIC
- UGT = UNDER GROUND TELEPHONE
- B.M. = BENCH MARK
- TELE. PED = TELEPHONE PEDESTAL
- C.O. = CLEAN OUT
- F.H. = FIRE HYDRANT
- GUY ANCHOR
- G.P. = GUARD POST
- L.P. = LIGHT POLE
- M.W. = MONITOR WELL
- POST
- POWER POLE
- SIGN
- W.M. = WATER METER
- W.V. = WATER VALVE
- XFMR = ELECTRIC TRANSFORMER
- C.V. = CONTROL VALVE
- E.B. = ELECTRIC BOX
- SWS M.H. = STORM WATER SEWER MANHOLE
- SS M.H. = SANITARY SEWER MANHOLE
- G.M. = GAS METER
- G.V. = GAS VALVE
- P.M. = PIPELINE MARKER

**UTILITY RELOCATION NOTE:**  
 ALL UTILITY OWNERS HAVE BEEN NOTIFIED OF REQUIRED UTILITY RELOCATIONS DUE TO PROJECT IMPROVEMENTS. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY ELEVATIONS AND COORDINATE WITH UTILITY OWNERS ON THE STATUS OF THE REQUIRED UTILITY RELOCATES AND/OR PLANS FOR RELOCATION DURING CONSTRUCTION.

KANSAS GAS SERVICE	ED KOHLER	01-316-832-3177	EM-1-888-482-4990
WESTAR ENERGY	MILES CAPPIS	01-316-261-6824	EM-1-888-383-1183
AT&T	JASON EDWARDS	01-316-268-2008	EM-1-800-870-8390
WICHITA AIRPORT AUTHORITY	DON DEARMONT	01-316-946-4715	
C.O.W. WATER & SEWER	GREG LOLLEY	01-316-268-4555	

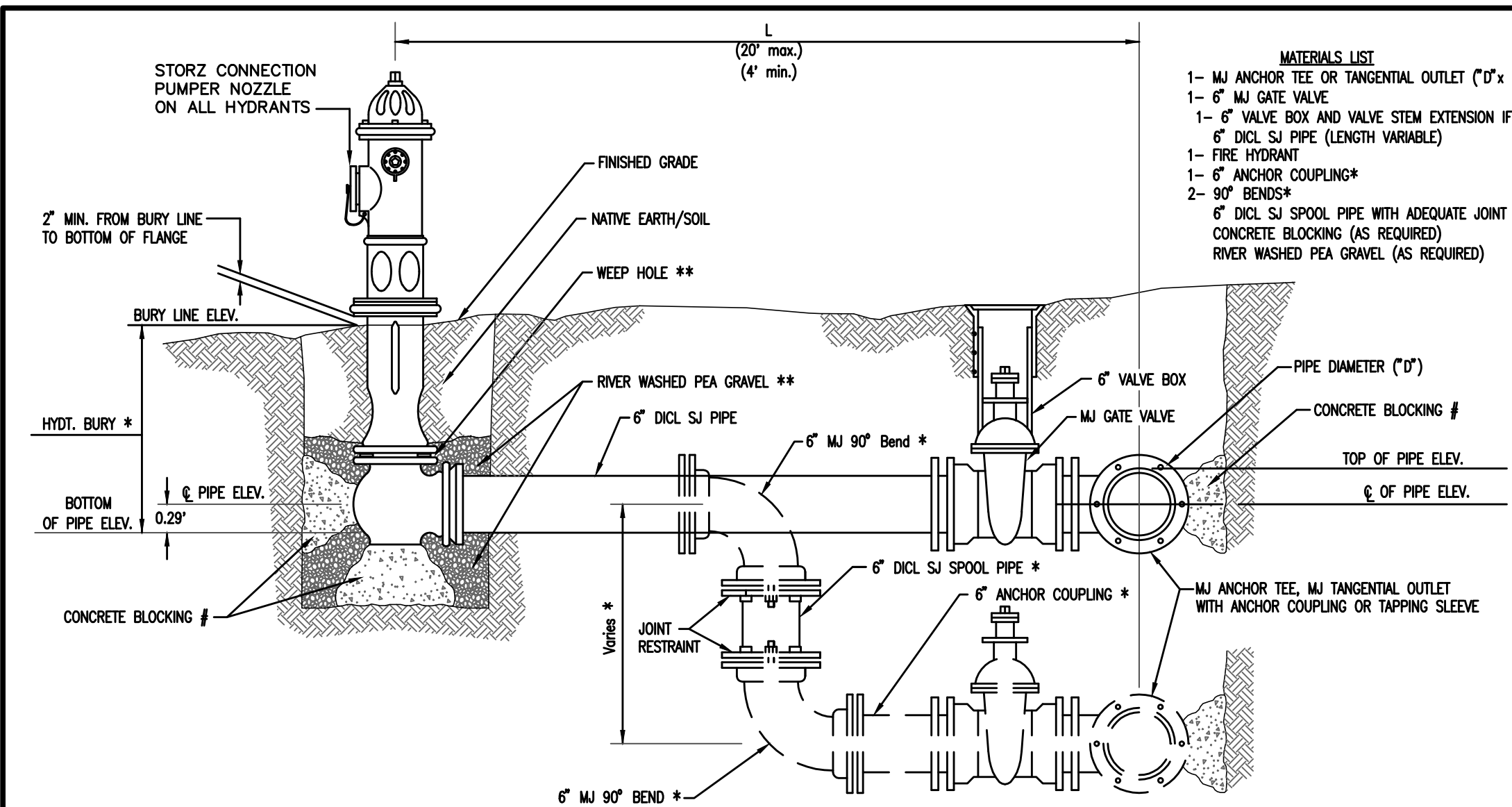


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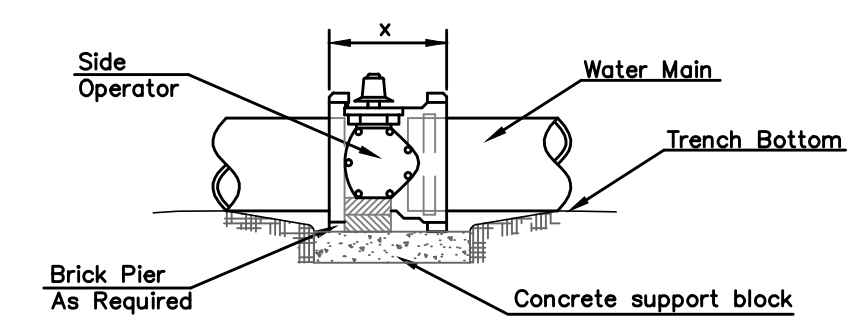
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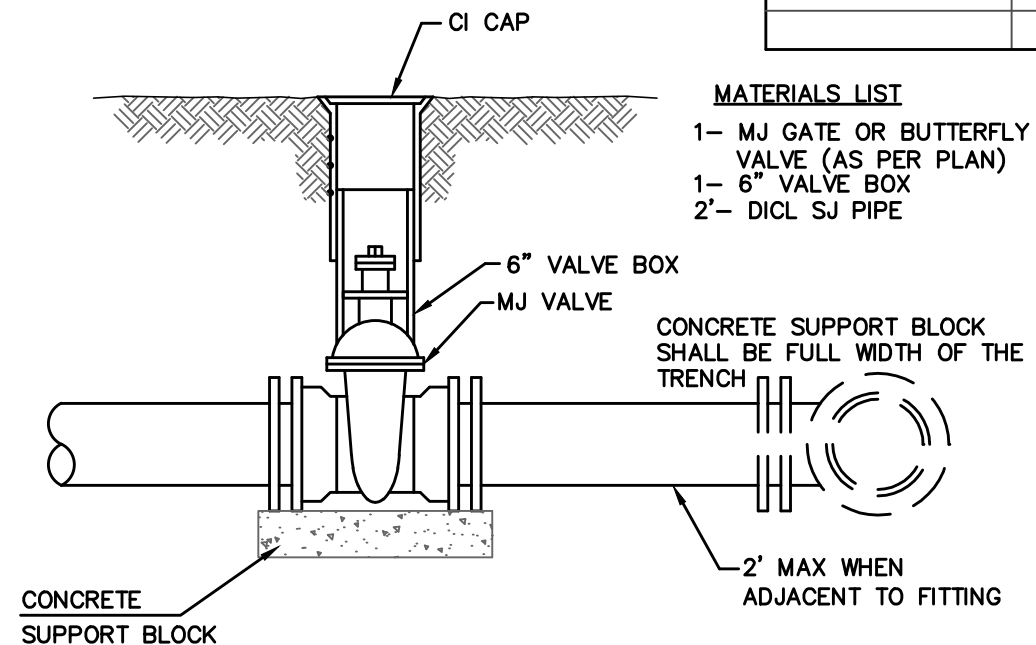
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (6" x 6")
  - 1- 6" MJ GATE VALVE
  - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED \*
  - 6" DI CL SJ PIPE (LENGTH VARIABLE)
  - 1- FIRE HYDRANT
  - 1- 6" ANCHOR COUPLING\*
  - 2- 90° BENDS\*
  - 6" DI CL SJ SPOOL PIPE WITH ADEQUATE JOINT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

**FIRE HYDRANTS REQUIRED**

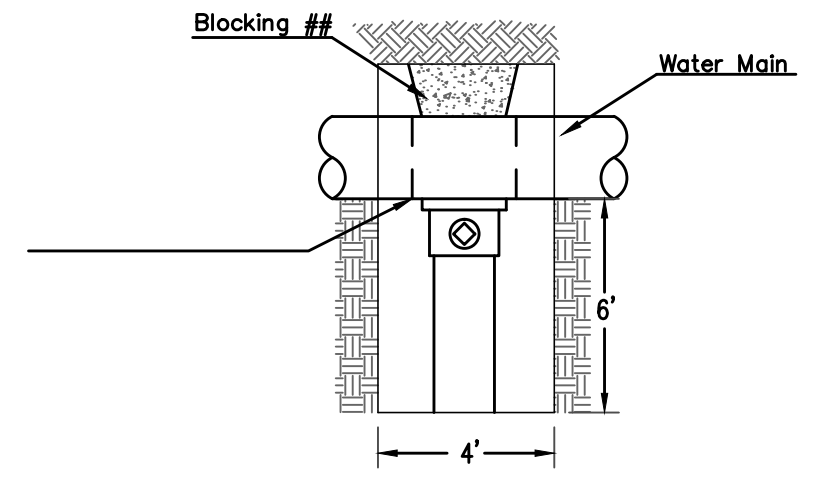
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
3+40.50	1317.00	1311.62	6.00	1



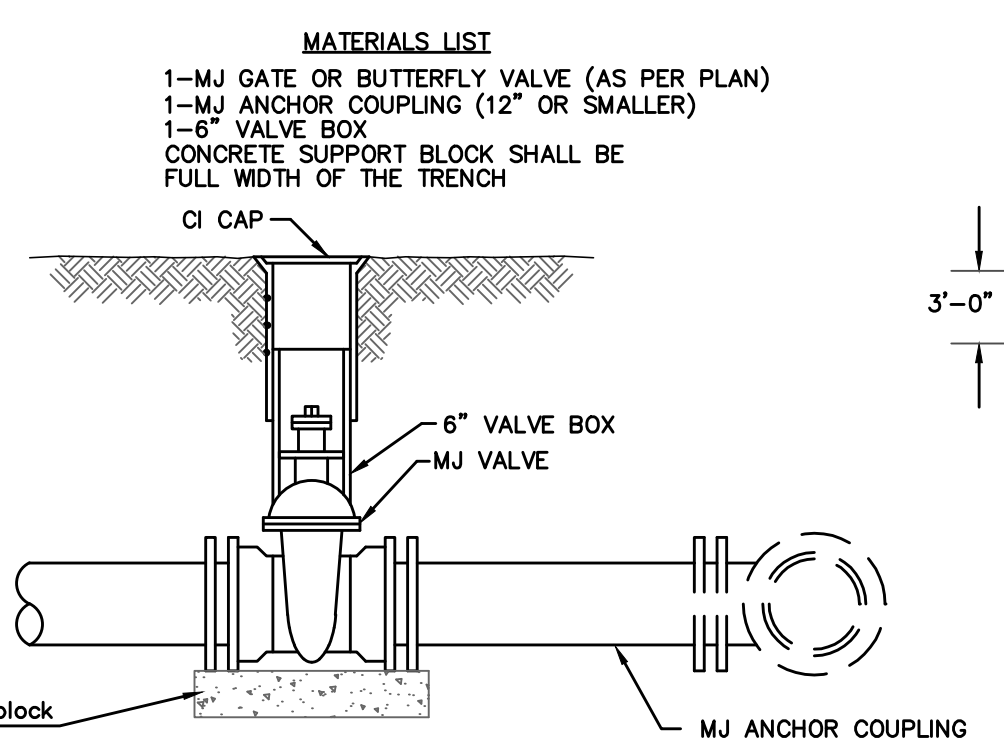
- NOTES**
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
  - 6" Valve Box and Cover required per City of Wichita Std. Specifications.
  - Conc. Support Block to be full width of trench.



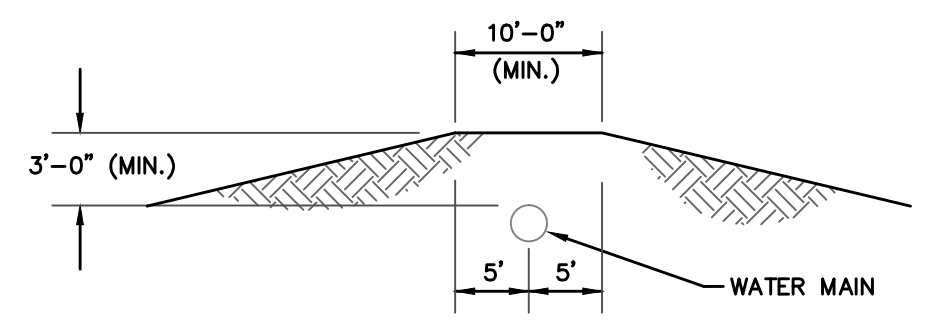
- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- 6" VALVE BOX
  - 2'- DI CL SJ PIPE
  - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



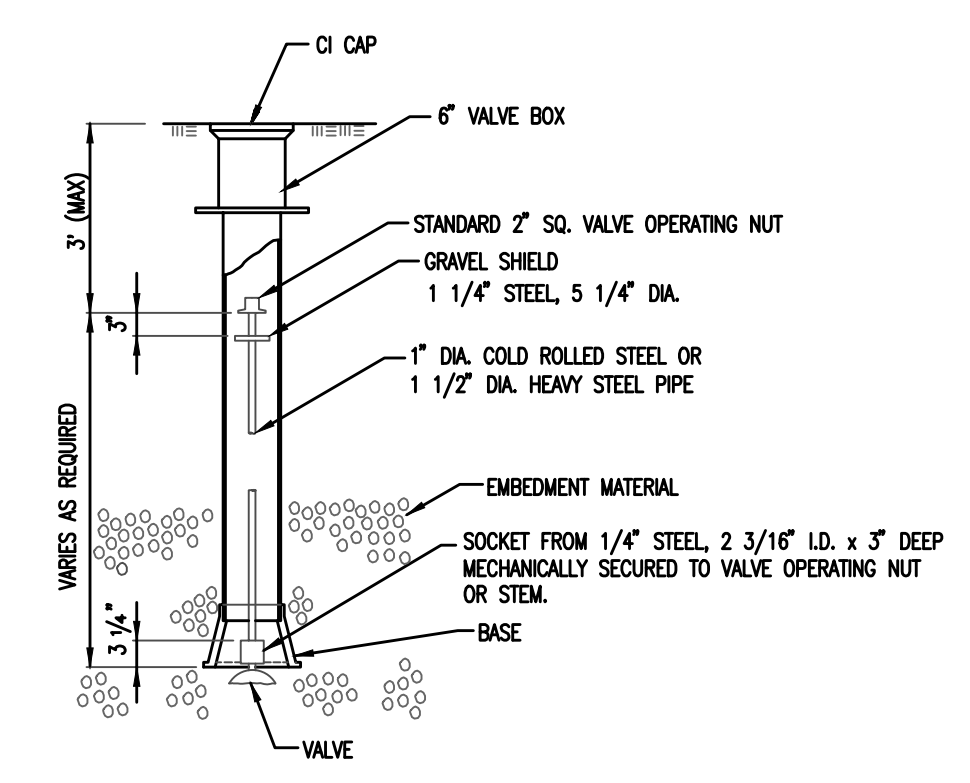
## When the City of Wichita makes tap, blocking is to be done by Contractor



- 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

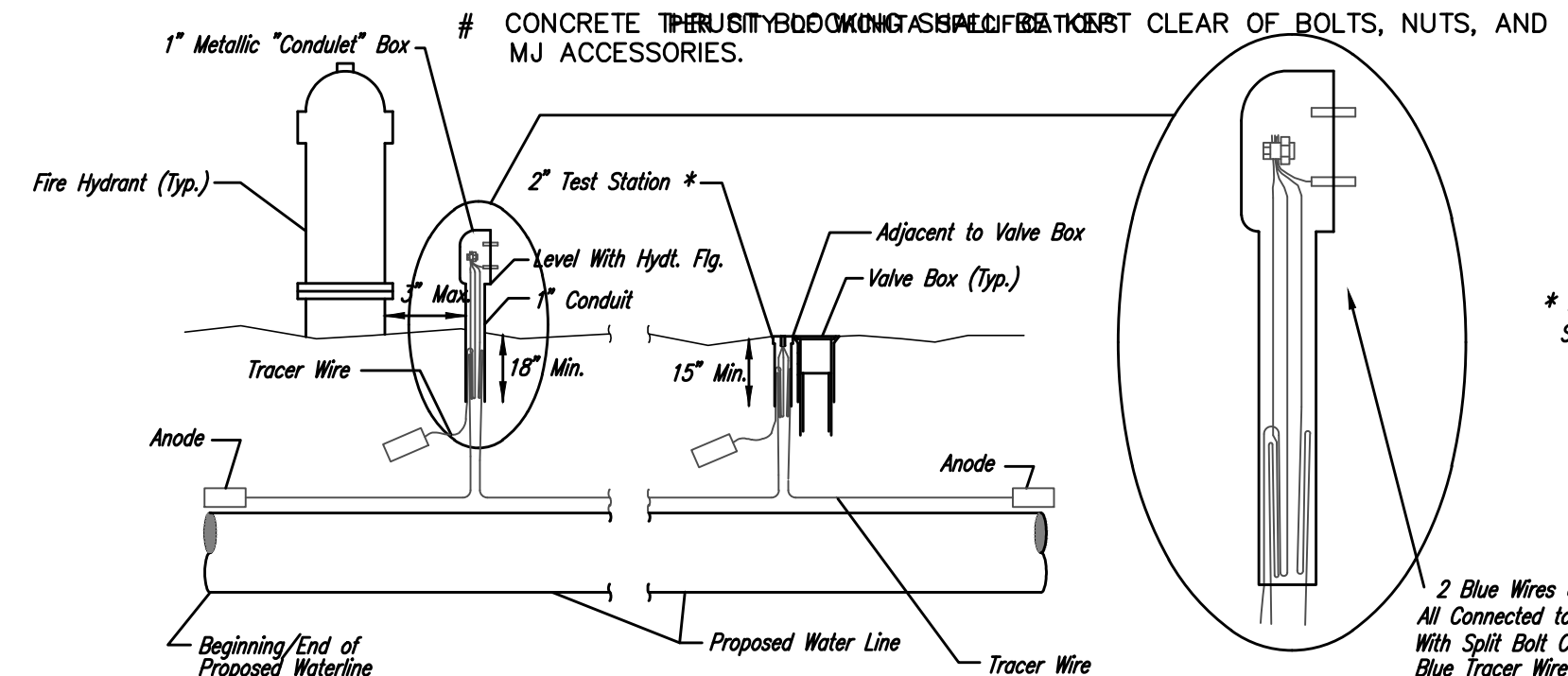


MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3". (COST SUBSIDIARY TO PIPE INSTALLATION)



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

- \* 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.



**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 T2PS30 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.

COST IS SUBSIDIARY TO PIPE INSTALLATION

**THRUST AT VALVES**

VALVE	THRUST AT 150 PSI
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

- 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.



**STANDARD WATER ASSEMBLY DETAIL**

CITY ENGINEER  
**GARY JANZEN, P.E.**

PROJECT NUMBER: \_\_\_\_\_ OCA NUMBER: \_\_\_\_\_ DATE: 12/2011

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

SHEET \_\_\_\_\_ OF \_\_\_\_\_

REV.	DESCRIPTION	DATE

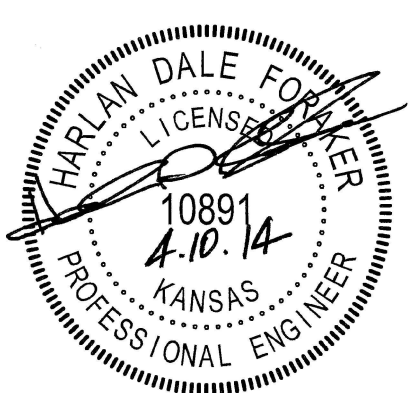
**SOUTH MAINTENANCE YARD IMPROVEMENTS & PARKING LOT RECONSTRUCTION**

**WICHITA MID-CONTINENT AIRPORT**  
 SEDGWICK COUNTY, KANSAS

CERTIFIED ENGINEERING DESIGN, P.A.  
 CIVIL ENGINEERING SERVICES



1935 WEST MAPLE STREET  
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 PH.(316)262-8808 FAX.(316)262-1669



**BID DRAWINGS**

PROJECT NO.: 20122036  
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 CONTACT: H FORAKER  
 DRAWN BY: CC, CKW | CHECKED BY: HDF

**STANDARD WATER DETAILS**

FILE LOCATION: S:\Drawing Files\Land Projects\CC 11-17-08\WMA\SouthMain\Facility\DWG\112 - Security Fence Detail.dwg TAB NAME: STANDARD WATER DETAILS USER: ragoorichh SAVED: 4/9/2014 3:35 PM PLOTTED: 4/10/2014 2:06 PM