# WATER LINE IMPROVEMENTS
TO SERVE
# COOPER ELEMENTARY SCHOOL
Reserve "A", Oaklawn Subdivision
(NW Corner of Chestnut Dr. and Juniper Ave.)

Private Project No. 1556 PPW 670853

**City of Wichita**
Sedgwick County, Kansas
JAMES L. ARMOUR, PE, CITY ENGINEER

## GENERAL NOTES:

1. 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.

2. 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.......................................................1-800-870-8390
CITY OF WICHITA WATER DEPARTMENT......(316) 268-4940
CITY OF WICHITA SEWER DEPARTMENT......(316) 268-4940

3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY DIRECTLY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS ADVANCE PRIOR TO START OF CONSTRUCTION.

9. 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 REESTABLISHED 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.

10. 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.

11. 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 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 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.

12. ALL AREAS DISTURBED BY THE CONSTRUCTION OPERATION SHALL BE SEEDED (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.

13. 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 FLAGMEN IN ACCORDANCE WICES. TITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE CITY FOR APPROVAL PRIOR TO BEGINNING WORK.

14. 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.

15. 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.

16. 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.

17. THE CONTRACTOR SHALL SATISFY HIMSELF OF THE SUBSURFACE CONDITIONS PRIOR TO CONSTRUCTION.

## HORIZONTAL COORDINATE CONTROL:

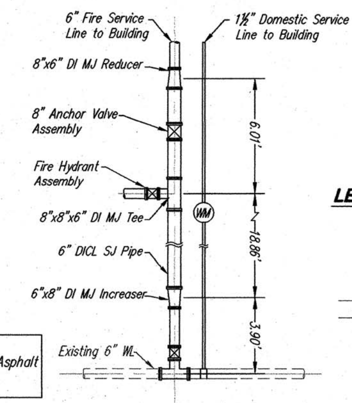
(101) CP 101 – PK set ±14 feet west and ±66 feet north of northwest building corner of Reserve A of Oaklawn, City of Wichita, KS.
N= 5000.000, E= 5000.000
Elev= 1268.040

(103) CP 103 – Hub w/tack set ±14 feet west and ±288 feet north of the northwest building corner of Reserve A of Oaklawn, City of Wichita, KS.
N= 5222.323, E= 5000.000
Elev= 1266.670

(302) CP 302 – PK set ±58 feet west and of ±114 feet south of the southwest building corner of Reserve A of Oaklawn, City of Wichita, KS.
N= 4587.731, E= 4871.450
Elev= 1266.600

## BENCHMARK:

Chisled Square "□" on Curb Approx. 21 Feet South of CL Driveway of Oaklawn Christian Church at Juniper Ave. and Willow Way.
Elev: 1270.96 MSL

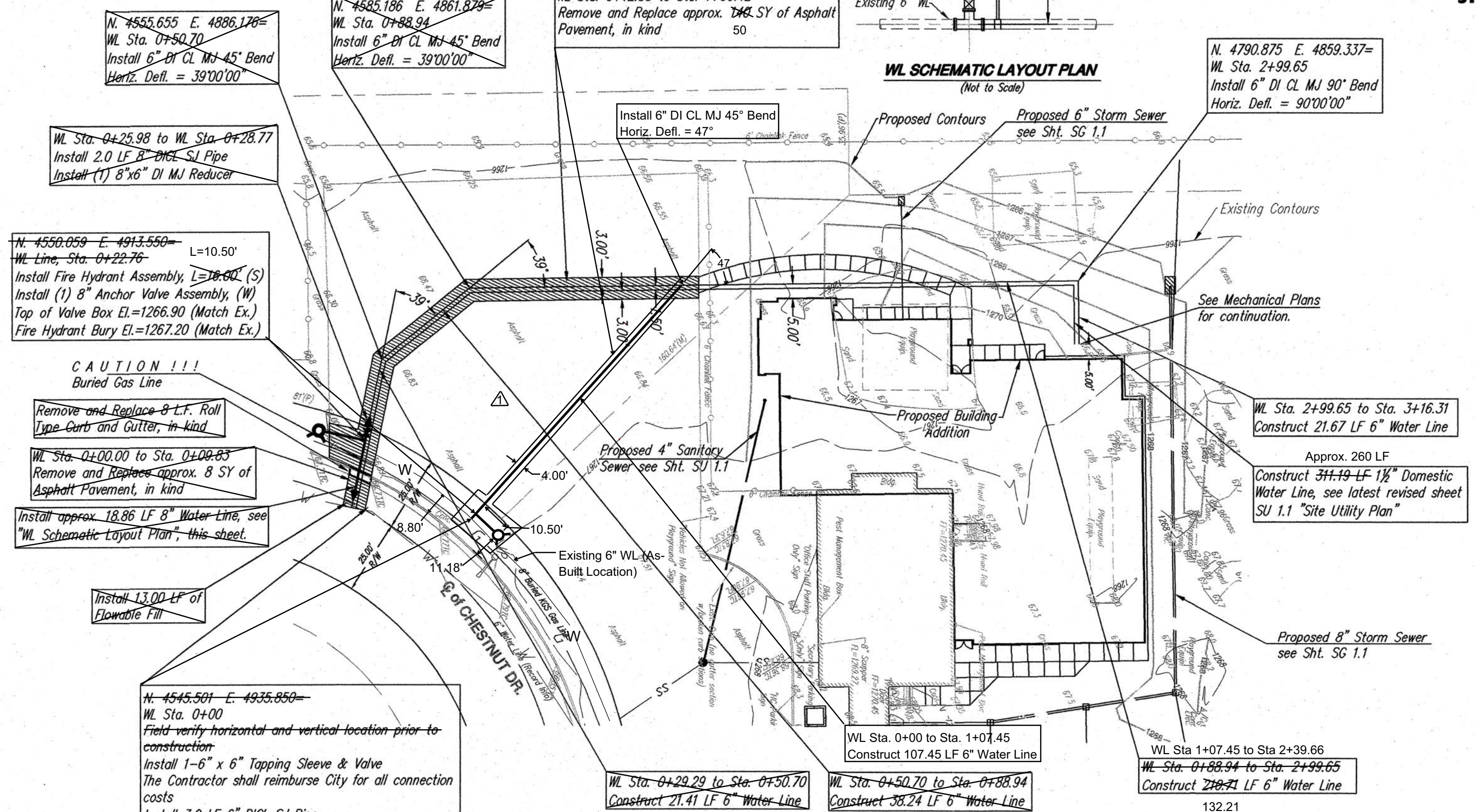



### WL SCHEMATIC LAYOUT PLAN
(Not to Scale)

NORTH
HORIZ. (FEET) 0 30 60
VERT. (FEET) 0 5
GRAPHIC SCALE FOR 1" = 30'

## LEGEND:

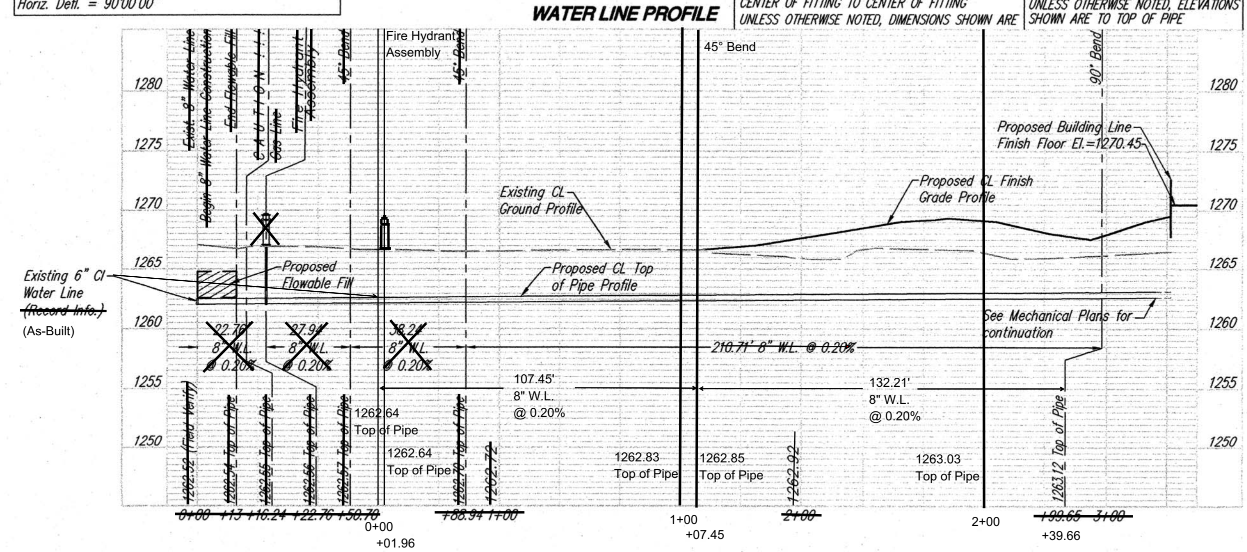
TC = Top of Curb Elev.
FL = Pavement Flowline Elev.
DI = Ductile Iron
SJ = Slip Joint
MJ = Mechanical Joint
—— W —— = Water Line
—— G —— = Gas Line




### WATER LINE PROFILE

CENTER OF FITTING TO CENTER OF FITTING UNLESS OTHERWISE NOTED, DIMENSIONS SHOWN ARE

UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN ARE TO TOP OF PIPE




## 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] 10/26/10
Water & Sewer [signature] 10-28-10
Fire [signature] 10-28-2010

NOTE TO CONTRACTORS

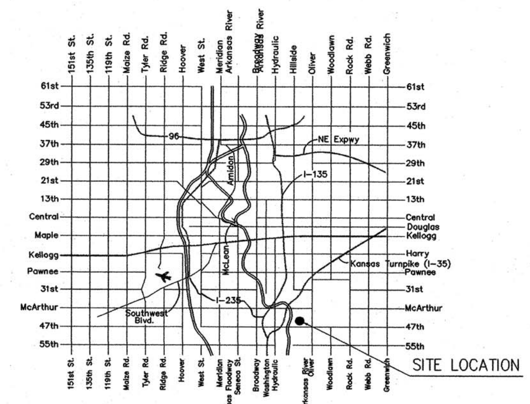
Public Property:

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 or 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. Inspeciton 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.:
1556 PPW 607853




As-Built Plans
Contractor: McDainel Co., Inc.
Inspector: Dustin Billingsley, Young & Associates, P.A.
.pdf by: DSB 6-23-11


**YOUNG & ASSOCIATES, P.A.**
Professional Civil Engineering Consultants
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10/25/10

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**Revisions**
1 Revised Fire Line
2
3
4
5
6
7
8
9
10

**Project Number**
**SJCF 0000.00**

**Date**
**10/7/10**

**Water Line Plan & Profile**

**1" = 30'**

**WL 1.1**