

TYLER UNION MJ  
PACK  
STAR 8"X6" REDUCER  
KENNEDY (STORZ)  
FIRE HYDRANT

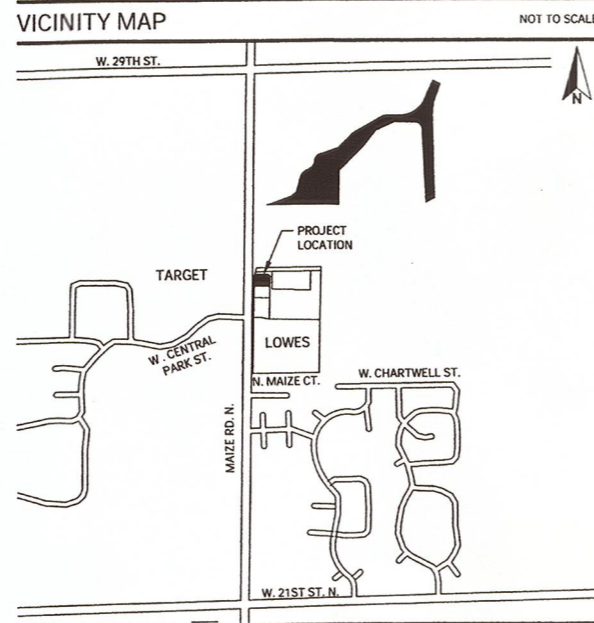
30'6" SOUTH OF  
CENTER OF NORTH  
STREET  
28'6" WEST OF  
CENTER OF EAST  
STREET  
IS KENNEDY FIRE  
HYDRANT  
4' EAST OF FIRE  
HYDRANT IS  
EXISTING VALVE WE  
CONNECTED TO

# CIVIL DESIGN PLANS FOR: EAST SIDE INVESTMENTS 2768 N. MAIZE ROAD WICHITA, KANSAS #1818PPW

## AS BUILTS

Contractor: C-K Contracting  
Inspector: Larry Gann  
Date: 8/28/2014

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



### SHEET INDEX

SHEET NO	SHEET DESCRIPTION	ISSUE DATE	SUBMITTAL	REV / ADD
C1.0	COVER SHEET	05/22/2014	PPW SUBMITTAL	
C2.0	SITE PLAN	05/22/2014	PPW SUBMITTAL	
C2.1	SITE DETAIL SHEET		NOT INCLUDED	
C3.0	SURVEY	04/02/2012	PPW SUBMITTAL	
C4.0	DEMOLITION AND EROSION & SEDIMENT CONTROL PLAN (PHASE 1)		NOT INCLUDED	
C4.1	EROSION AND SEDIMENT CONTROL PLAN (PHASE 2)		NOT INCLUDED	
C4.2	EROSION / SEDIMENT CONTROL DETAIL SHEET		NOT INCLUDED	
C5.0	GRADING AND DRAINAGE PLAN		NOT INCLUDED	
C5.1	STORM SEWER PLAN AND PROFILE		NOT INCLUDED	
C5.1	GRADING AND DRAINAGE DETAIL SHEET		NOT INCLUDED	
C6.0	UTILITY PLAN	05/22/2014	PPW SUBMITTAL	
C6.1	FIRELINE PLAN AND PROFILE	05/22/2014	PPW SUBMITTAL	
C6.2	UTILITY DETAIL SHEET	05/22/2014	PPW SUBMITTAL	
C6.3	CITY OF WICHITA (STANDARD WATER ASSEMBLY DETAIL)	05/22/2014	PPW SUBMITTAL	
C6.4	CITY OF WICHITA (STANDARD WATER SERVICE DETAIL)	05/22/2014	PPW SUBMITTAL	
C6.5	CITY OF WICHITA (STANDARD VAULT & METER ASSEMBLY)	05/22/2014	PPW SUBMITTAL	
C6.6	CITY OF WICHITA (MISCELLANEOUS WATER DETAILS)	05/22/2014	PPW SUBMITTAL	
L1.0	LANDSCAPE PLAN		NOT INCLUDED	

SHEETS SHOWN AS NOT INCLUDED ADDED TO BACK OF SET

### PPW NOTES

APPROVED AS NOTED BY CITY ENGINEER OF WICHITA & BY WICHITA FIRE DEPARTMENT

WATER MAINS (ENGINEERING) *Rebecca Grief 5/27/14*  
WATER MAINS (WATER) *Aug 10/14 5-27-14*  
FIRE PROT. LINE *DMJ 6-28-14*

### 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 LICENSED 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 CITY OF WICHITA LICENSED FIRE PROTECTION CONTRACTOR IN ACCORDANCE WITH THE FIRE CODES AS ADOPTED BY THE CITY OF WICHITA. ALL MATERIALS 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 THE CITY OF WICHITA FIRE DEPARTMENT AND BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. 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.

### GENERAL NOTES

- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND EXISTING FIELD CONDITIONS WHEN POSSIBLE. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY HAND DIGGING TEST PITS AT ALL UTILITY CROSSINGS IN ADVANCE OF TRENCHING WITH ANY MECHANICAL DEVICE. CLEARANCES LESS THAN SPECIFIED ON THESE PLANS OR 18" (INCHES), WHICHEVER IS LESS, CONTRACTOR SHALL CONTACT OZARK CIVIL ENGINEERING, INC. @ 479.464.8850 PRIOR TO ANY FURTHER CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OR REMOVAL OF EXISTING UNDERGROUND UTILITIES SHOWN OR NOT SHOWN AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL INCLUDE IN CONTRACT PRICE FOR THE REMOVAL AND DISPOSAL OF ANY EXCESS TOPSOIL HE DETERMINES IS NOT NEEDED TO ESTABLISH THE FINAL GRADES AND LANDSCAPING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND USE OF ANY AND ALL REQUIRED OR NECESSARY SHORING, SHEETING, BRACING AND SPECIAL EXCAVATION MEASURES REQUIRED ON THIS PROJECT THAT WILL MEET OR EXCEED OSHA, FEDERAL, STATE AND LOCAL REGULATIONS DURING CONSTRUCTION. OZARK CIVIL ENGINEERING, INC. AND THE DEVELOPER/OWNER ACCEPTS NO RESPONSIBILITY FOR THE CONTRACTORS FAILURE TO COMPLY WITH THESE REGULATIONS.
- ALL UTILITIES, INCLUDING STORM SEWER, SHOWN WITHIN PUBLIC EASEMENTS OR RIGHT OF WAYS SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY'S SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE CONSTRUCTED TO THE CLIENT'S OR THE GOVERNING AGENCY'S SPECIFICATIONS, WHICHEVER IS MORE STRINGENT, IF THERE IS A QUESTION AS TO WHICH SPECIFICATIONS SHOULD APPLY THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW ALL RECOMMENDATIONS, WHERE A CONFLICT EXISTS BETWEEN THE HIGHWAY DEPARTMENT / CITY STANDARDS, THE MOST STRINGENT SHALL APPLY.
- FURTHERMORE IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE EROSION CONTROL MEASURES AS SHOWN ON THESE PLANS. CONTRACTOR SHALL KEEP THESE MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR IMPLEMENTING THE SWPPP.
- ALL PHASES OF CONSTRUCTION SHALL MEET OR EXCEED THE OWNER / DEVELOPER SITE WORK SPECIFICATIONS.
- SEE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS AND LOCATIONS OF ANY RAMPS, VESTIBULE, PORCHES, SLOPED PAVING, BUILDING UTILITY ENTRANCE LOCATIONS, TRUCK DOCKS OR WELLS, AND PRECISE BUILDING DIMENSIONS.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION PROCEDURES. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING FEATURES AS SHOWN ON THE SURVEY AND NOTIFY THE SURVEYOR AND THE ENGINEER OF RECORD OF ANY INACCURACIES FOUND ON THE SURVEY PRIOR TO BEGINNING CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- ALL CONSTRUCTION IN THE STATE RIGHT-OF-WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING ALL PHASES OF CONSTRUCTION OF THIS SITE. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO CONSTRUCTION WORKING HOURS.
- WARRANTY / DISCLAIMER  
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR DESIGN FUNCTION AND USE INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR HIS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION AT THE SITE.

### CONTACT LIST

<b>SURVEYOR</b> OZARK CIVIL ENGINEERING RICK DAYTON 3214 NW AVIGNON WAY, SUITE 4 BENTONVILLE, AR 72712 479.464.8850   OFFICE 479.464.9040   FAX rdayton@ozarkcivil.com	<b>CENTRAL INSPECTION SITE PLANS EXAMINER</b> PAUL HAYS 316.268.4463   OFFICE rchamberlin@wichita.gov
<b>ENGINEER OF RECORD</b> OZARK CIVIL ENGINEERING 1000 BULLER, P.E. 3214 NW AVIGNON WAY, SUITE 4 BENTONVILLE, AR 72712 479.464.8850   OFFICE 479.464.9040   FAX tbuiter@ozarkcivil.com	<b>TAP FEES/APPROVED MATERIALS</b> KERRY GIBSON 316.268.4555   OFFICE
<b>DEVELOPER</b> EAST SIDE INVESTMENTS, LLC 6940 SAVILLE / CHRISTIAN ABLAH 8200 E. 32nd ST. SITE 150 WICHITA, KS 67226 316.332.2600   OFFICE 316.393.3456   FAX	<b>WATER/SANITARY/DRAINAGE/PAVING REVIEW</b> REBECCA GRIEF 316.268.4505   OFFICE rgrief@wichita.gov
<b>ARCHITECT</b> INNOVATIVE CONSTRUCTION SERVICES JOSEPH DELANCY 1725 EAST WASSALL WICHITA, KS 67216 316.260.1644   OFFICE 316.260.5844   FAX joe@ics-designs.com	<b>STORM WATER MANAGEMENT</b> SCOTT LINDEBAK 316.268.4598   OFFICE slindebak@wichita.gov
<b>CITY OF WICHITA, KS</b> 455 N. MAIN WICHITA KS 67202-1688 316.268.4421   OFFICE 316.268.4390   FAX	<b>FIRE DEPARTMENT</b> CPT. SHAWALTER 316.268.4441   OFFICE
<b>CITY PLANNING DEPT.</b> SENIOR PLANNER JESS MCNEELY 316.352.4884   OFFICE jmcneely@wichita.gov	<b>GAS</b> BLACK HILLS ENERGY DARYL KELLER 2330 N. HOOVER WICHITA, KS 67205 575.236.6502 EXT 88464
	<b>TELEPHONE</b> AT&T CHRISTOPHER DIEKER 154 N. BROADWAY, ROOM 210 WICHITA, KS 67202 316.268.3160   OFFICE
	<b>ELECTRIC</b> WESTAR ENERGY MARSHA JESSE 1900 E. CENTRAL WICHITA, KS 67201 316.261.6315   OFFICE



**Ozark**  
Civil Engineering Inc.  
3214 N.W. AVIGNON WAY, SUITE 4  
BENTONVILLE, AR 72712  
479.464.8850 | OFFICE 479.464.9040 | FAX

COVER SHEET  
RETAIL DEVELOPMENT FOR:  
EAST SIDE INVESTMENTS  
2768 N. MAIZE ROAD  
WICHITA, KANSAS

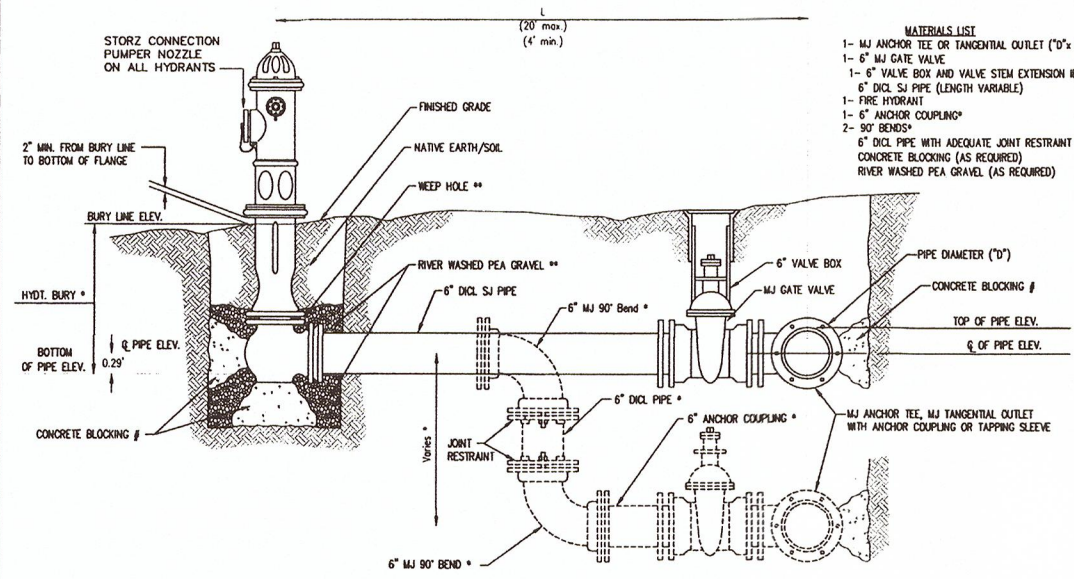
DRAWN BY:	JON
APPROVED BY:	TAB
JOB NUMBER:	14-1139
ISSUE DATE:	05/22/2014
DESCRIPTION:	CIVIL DESIGN PLANS
SHEET NO	C1.0



METROPOLITAN AREA  
BUILDING & CONSTRUCTION DEPARTMENT  
Call before you dig.

EASTSIDE INVESTMENTS

1818-PPW



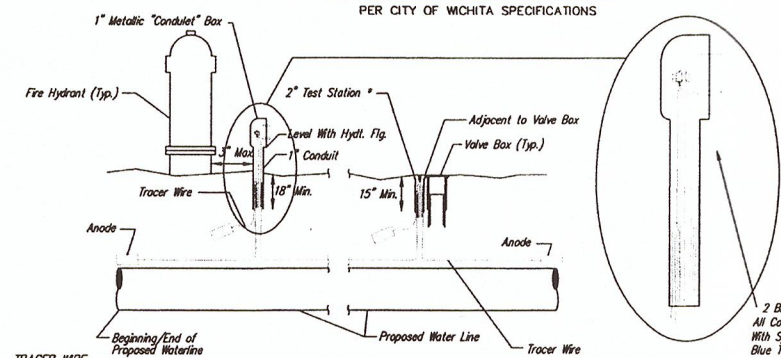
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (10" x 6")
  - 1- 6" MJ GATE VALVE
  - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED \*
  - 6" DI CL SJ PIPE (LENGTH VARIABLE)
  - 1- FIRE HYDRANT
  - 1- 6" ANCHOR COUPLING\*
  - 2- 90° BENDS\*
  - 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT \*
  - 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 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. 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 called 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.

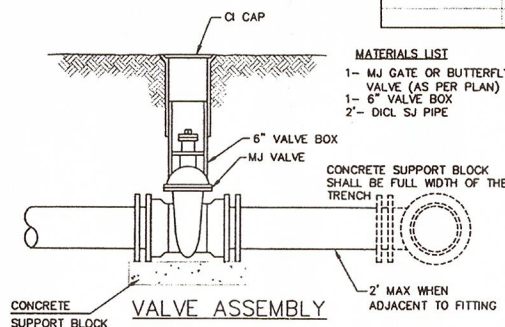
**TEST STATIONS**  
The test station for fire hydrant applications shall be a 1 inch galvanized "condulet" style test station as manufactured by AGRA Industries with a removable solid cover having two leads extending from the face or approved equal. The test station for valve applications shall be 2 inch flush style test station T2PS39 as manufactured by HANDLEY Industries or approved equal. The "condulet" 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 Block No. 12 THHN annealed soft copper wire which shall be extended to the test station.

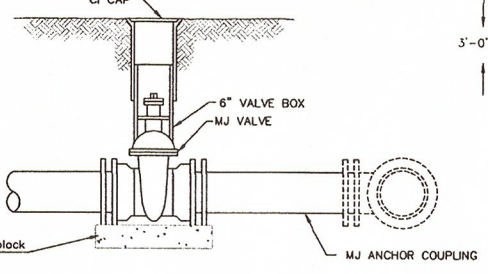
**TRACER WIRE DETAIL**  
COST IS SUBSIDIARY TO PIPE INSTALLATION

**FIRE HYDRANTS REQUIRED**

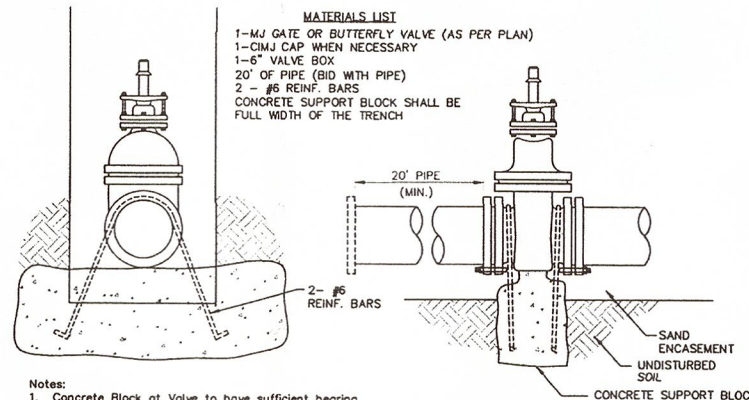
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
LINE "A" C+12	1355.75	1351.25	0	EXISTING VALVE



- 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**

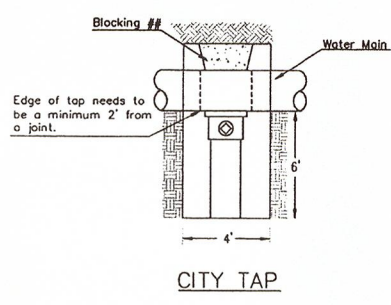


- Notes:**
- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
  - The thrust block shall be constructed such that bolts, nuts, and 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.

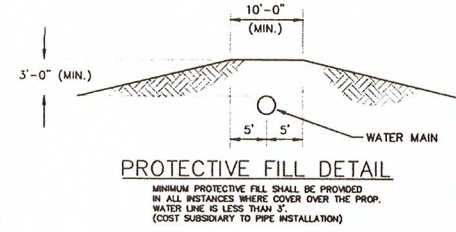
**THRUST AT VALVES**

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

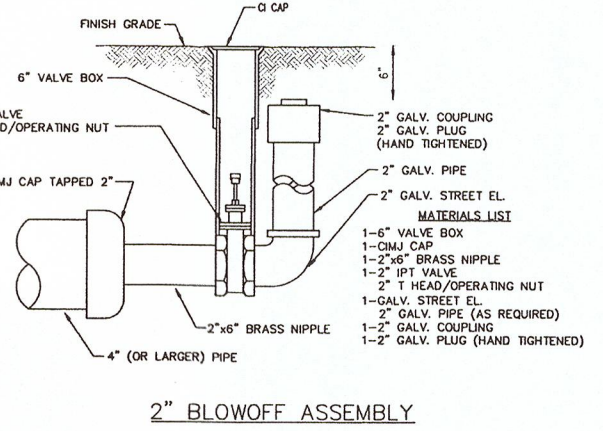
**ANCHORED VALVE ASSEMBLY, SPECIAL**



\*\* 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\"/>



**2" BLOWOFF ASSEMBLY**

**CITY OF WICHITA**  
PUBLIC WORKS & UTILITIES ENGINEERING DIVISION

**STANDARD WATER ASSEMBLY DETAIL**

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

PROJECT NUMBER: OCA NUMBER: DATE: 04/2013

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

SHEET: \_ of \_



METROPOLITAN AREA BUILDING & CONSTRUCTION DEPARTMENT

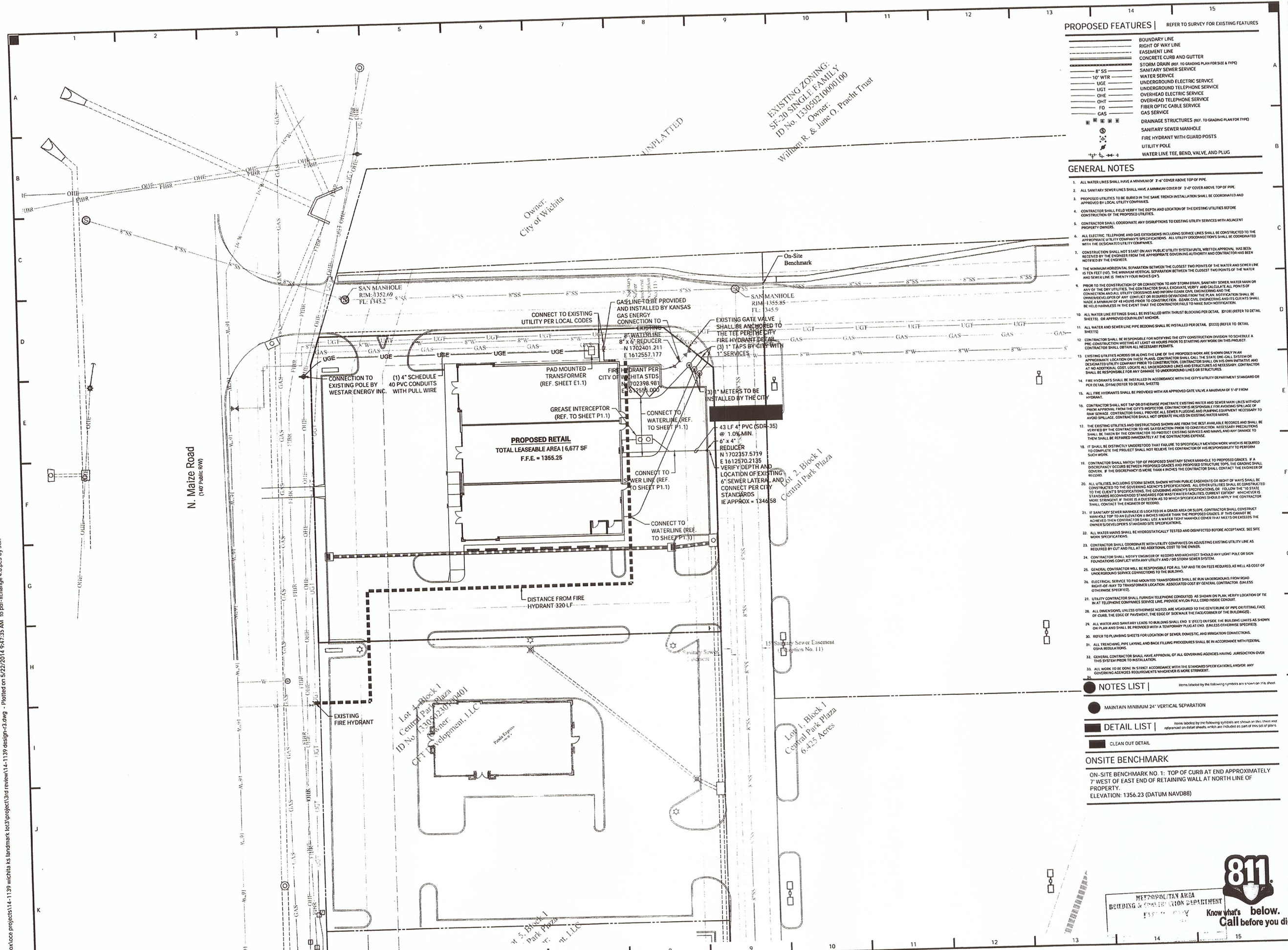
**Czark**  
Civil Engineering Inc.  
3214 N.W. AVIGNON WAY, SUITE 4  
BENTONVILLE, AR 72712  
479-464-8850 | OFFICE 479-464-9040 | FAX

CITY OF WICHITA DETAILS  
RETAIL DEVELOPMENT FOR:  
EAST SIDE INVESTMENTS  
CENTRAL PARK PLAZA, LOT 3  
WICHITA, KANSAS

DRAWN BY: JON  
APPROVED BY: TAB  
JOB NUMBER: 14-1139  
ISSUE DATE: 05/22/2014  
DESCRIPTION: CIVIL DESIGN PLANS  
SHEET NO:

**C6.3**

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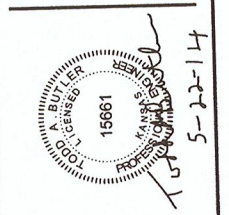
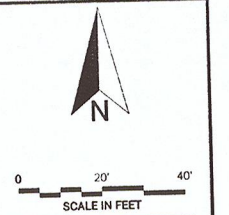


**PROPOSED FEATURES** | REFER TO SURVEY FOR EXISTING FEATURES

---	BOUNDARY LINE
---	RIGHT OF WAY LINE
---	EASEMENT LINE
---	CONCRETE CURB AND GUTTER
---	STORM DRAIN (REF. TO GRADING PLAN FOR SIZE & TYPE)
---	SANITARY SEWER SERVICE
---	8" SS
---	10" WTR
---	UGE
---	UGT
---	OHE
---	OHT
---	FO
---	GAS
---	DRAINAGE STRUCTURES (REF. TO GRADING PLAN FOR TYPE)
---	SANITARY SEWER MANHOLE
---	FIRE HYDRANT WITH GUARD POSTS
---	UTILITY POLE
---	WATER LINE TEE, BEND, VALVE, AND PLUG

- GENERAL NOTES**
- ALL WATER LINES SHALL HAVE A MINIMUM OF 2'-0" COVER ABOVE TOP OF PIPE.
  - ALL SANITARY SEWER LINES SHALL HAVE A MINIMUM COVER OF 3'-0" COVER ABOVE TOP OF PIPE.
  - PROPOSED UTILITIES TO BE BARRIED IN THE SAME TRENCH INSTALLATION SHALL BE COORDINATED AND APPROVED BY LOCAL UTILITY COMPANIES.
  - CONTRACTOR SHALL FIELD VERIFY THE DEPTH AND LOCATION OF THE EXISTING UTILITIES BEFORE CONSTRUCTION OF THE PROPOSED UTILITIES.
  - CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
  - ALL ELECTRIC, TELEPHONE AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY'S SPECIFICATIONS. ALL UTILITY DISRUPTIONS SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANIES.
  - CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNLESS WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
  - THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF WATER AND SEWER LINE IS TWENTY FOUR INCHES (24").
  - PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE ABOVE UTILITIES, THE CONTRACTOR SHALL OBTAIN PERMITS AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND PROVIDE DRAIN, CIVIL, ENGINEERING AND THE OWNERS/DEVELOPER OF ANY ADJACENT PROPERTY WITH A MINIMUM OF 14 DAYS PRIOR TO CONSTRUCTION. QUARK CIVIL ENGINEERING AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
  - ALL WATER LINE FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING PER DETAIL, (D12) (REFER TO DETAIL SHEETS) OR APPROVED EQUIVALENT ANCHOR.
  - ALL WATER AND SEWER LINE PIPE BEDDING SHALL BE INSTALLED PER DETAIL, (D32) (REFER TO DETAIL SHEETS).
  - CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY CONSTRUCTION DIVISION TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK ON THIS PROJECT. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
  - EXISTING UTILITIES ADJACENT TO THE LINE OF THE PROPOSED WORK ARE SHOWN ONLY IN AN APPROXIMATE LOCATION. CONTRACTOR SHALL CALL THE STATE ONE-CALL SYSTEM OR AT NO ADDITIONAL COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES.
  - FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY'S UTILITY DEPARTMENT STANDARD OR DETAIL, (D15) (REFER TO DETAIL SHEETS).
  - ALL FIRE HYDRANTS SHALL BE PROVIDED WITH AN APPROVED GATE VALVE A MAXIMUM OF 5'-0" FROM HYDRANT.
  - CONTRACTOR SHALL NOT POND OR OTHERWISE PENETRATE EXISTING WATER AND SEWER MAIN LINES WITHOUT PRIOR APPROVAL FROM THE CITY'S PROPRIETOR. CONTRACTOR IS RESPONSIBLE FOR AVOIDING SPILLAGE OF RAW SEWAGE. CONTRACTOR SHALL PROVIDE ALL SEWER PUMPING AND PUMPING EQUIPMENT NECESSARY TO AVOID SPILLAGE. CONTRACTOR SHALL NOT OPERATE VALVES ON EXISTING WATER MAINS.
  - THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO THE SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MAINS, AND ANY DAMAGE TO SAME SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
  - IT SHALL BE EXPLICITLY UNDERSTOOD THAT FAILURE TO SPECIFICALLY MENTION WORK WHICH IS REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
  - CONTRACTOR SHALL MATCH TOP OF PROPOSED SANITARY SEWER MANHOLE TO PROPOSED GRADES. IF A DISCREPANCY OCCURS BETWEEN PROPOSED GRADES AND PROPOSED STRUCTURE TOPS, THE GRADING SHALL GOVERN. IF THE DISCREPANCY IS MORE THAN 4" THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.
  - ALL UTILITIES, INCLUDING STORM SEWER, SHOWN WITHIN PUBLIC EASEMENTS OR RIGHT OF WAYS SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY'S SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE CONSTRUCTED TO THE CLIENT'S SPECIFICATIONS, THE GOVERNING AGENCY'S SPECIFICATIONS, OR FOLLOW THE "TO STATE STANDARDS RECOMMENDED STANDARDS FOR WATER UTILITIES, CURRENT EDITION", WHICH IS MORE STRINGENT. IF THERE IS A QUESTION AS TO WHICH SPECIFICATIONS SHOULD APPLY, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD.
  - IF A SANITARY SEWER MANHOLE IS LOCATED IN A GRASS AREA OR SLOPE, CONTRACTOR SHALL CONSTRUCT MANHOLE TOP TO AN ELEVATION 8" HIGHER THAN THE PROPOSED GRADE. IF THIS CANNOT BE ACHIEVED THEN CONTRACTOR SHALL USE A WATER TIGHT MANHOLE COVER THAT MEETS OR EXCEEDS THE OWNER'S DEVELOPER'S STANDARD SITE SPECIFICATIONS.
  - ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
  - CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES ON ADJUSTING EXISTING UTILITY LINE AS REQUIRED BY CUT AND FILL AT NO ADDITIONAL COST TO THE OWNER.
  - CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD AND ARCHITECT SHOULD ANY LIGHT POLE OR SIGN FOUNDATIONS CONFLICT WITH ANY UTILITY AND FOR STORM SEWER SYSTEM.
  - GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND TIE OFFERS REQUIRED AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
  - ELECTRICAL SERVICE TO PAD MOUNTED TRANSFORMER SHALL BE RUN UNDERGROUND FROM ROAD RIGHT-OF-WAY TO TRANSFORMER LOCATION. ASSOCIATED COSTS BY GENERAL CONTRACTOR (UNLESS OTHERWISE SPECIFIED).
  - UTILITY CONTRACTOR SHALL FURNISH TELEPHONE CONDUITS AS SHOWN ON PLAN. VERIFY LOCATION OF THE IN-AT TELEPHONE COMPANIES SERVICE LINE. PROVIDE MINIMUM FILL COVER OVER CONDUIT.
  - ALL DIMENSIONS, UNLESS OTHERWISE NOTED, ARE MEASURED TO THE CENTERLINE OF PIPE OR FITTING FACE OF CURB, THE EDGE OF PAVEMENT, THE EDGE OF SIDEWALK OR THE FACE/CORNER OF THE BUILDING.
  - ALL WATER AND SANITARY LEADS TO BUILDING SHALL END 5' (EIT) OVERSIDE THE BUILDING LINES AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A STAMPED PLAN AT END, UNLESS OTHERWISE SPECIFIED.
  - REFER TO GRADING SHEETS FOR LOCATION OF SEWER, DOMESTIC, AND IRRIGATION CONNECTIONS.
  - ALL TRENCHING, PIPE LAYING, AND BACK FILLING PROCEDURES SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
  - GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
  - ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH THE STANDARD SPECIFICATIONS, AND/OR ANY GOVERNING AGENCIES REQUIREMENTS WHICHEVER IS MORE STRINGENT.

- NOTES LIST**
- Items labeled by the following symbols are shown on this sheet.
  - MAINTAIN MINIMUM 2'-0" VERTICAL SEPARATION
- DETAIL LIST**
- Items labeled by the following symbols are shown on this sheet and referenced on detail sheets, which are included as part of this set of plans.
  - CLEAN OUT DETAIL
- ONSITE BENCHMARK**
- ON-SITE BENCHMARK NO. 1: TOP OF CURB AT END APPROXIMATELY 7' WEST OF EAST END OF RETAINING WALL AT NORTH LINE OF PROPERTY.  
ELEVATION: 1356.23 (DATUM NAVD88)



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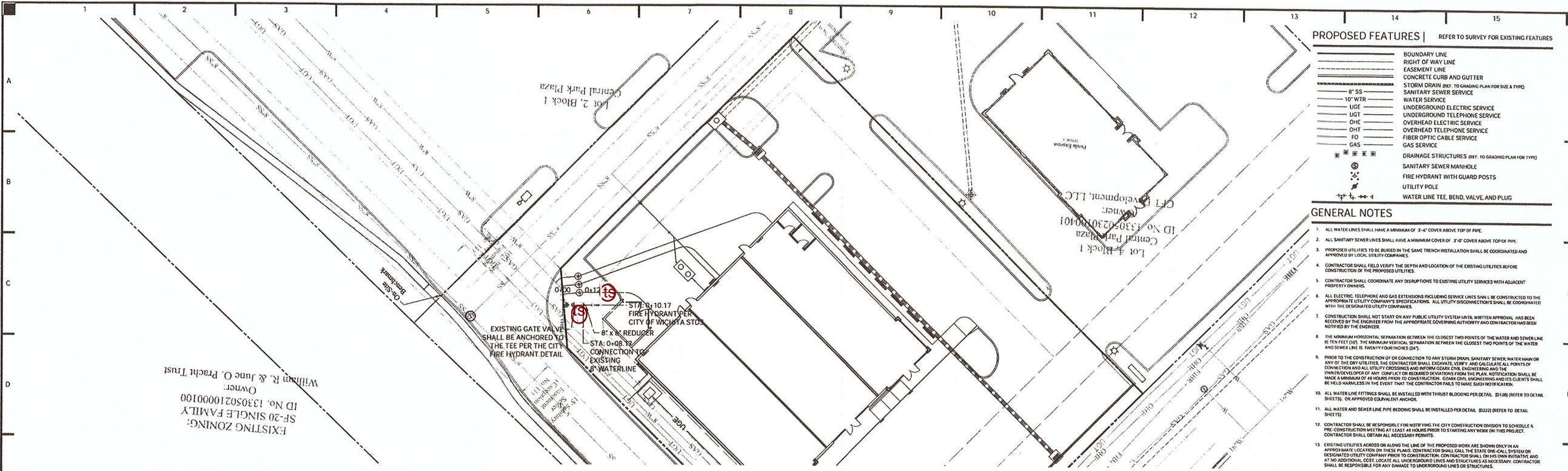
**UTILITY PLAN**

RETAIL DEVELOPMENT FOR:  
EAST SIDE INVESTMENTS  
CENTRAL PARK PLAZA, LOT 3  
WICHITA, KANSAS

DRAWN BY	JON
APPROVED BY	TAB
JOB NUMBER	14-1139
ISSUE DATE	05/22/2014
DESCRIPTION	CIVIL DESIGN PLANS
SHEET #	

**811**  
METROPOLITAN AREA  
BUILDING & CONSTRUCTION DEPARTMENT  
Know what's below.  
Call before you dig.

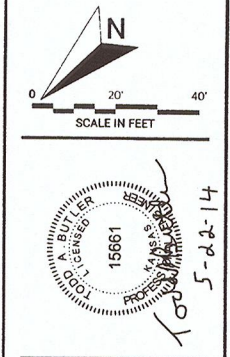
**C6.0**



**PROPOSED FEATURES | REFER TO SURVEY FOR EXISTING FEATURES**

BOUNDARY LINE	REFER TO SURVEY FOR EXISTING FEATURES
RIGHT OF WAY LINE	
EASEMENT LINE	
CONCRETE CURB AND GUTTER	
STORM DRAIN (SEE TO GRADING PLAN FOR SIZE & TYPE)	
8" SS SANITARY SEWER SERVICE	
10" WTR WATER SERVICE	
UGT UNDERGROUND ELECTRIC SERVICE	
UGT UNDERGROUND TELEPHONE SERVICE	
OHE OVERHEAD ELECTRIC SERVICE	
DHT OVERHEAD TELEPHONE SERVICE	
FO FIBER OPTIC CABLE SERVICE	
GAS GAS SERVICE	
DRAINAGE STRUCTURES (REF. TO GRADING PLAN FOR TYPE)	
SANITARY SEWER MANHOLE	
FIRE HYDRANT WITH GUARD POSTS	
UTILITY POLE	
WATER LINE TEE, BEND, VALVE, AND PLUG	

- GENERAL NOTES**
- ALL WATER LINES SHALL HAVE A MINIMUM OF 3'-4" COVER ABOVE TOP OF PIPE.
  - ALL SANITARY SEWER LINES SHALL HAVE A MINIMUM COVER OF 2'-0" COVER ABOVE TOP OF PIPE.
  - PROPOSED UTILITIES TO BE BURIED IN THE SAME TRENCH INSTALLATION SHALL BE COORDINATED AND APPROVED BY LOCAL UTILITY COMPANIES.
  - CONTRACTOR SHALL FIELD VERIFY THE DEPTH AND LOCATION OF THE EXISTING UTILITIES BEFORE CONSTRUCTION OF THE PROPOSED UTILITIES.
  - CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
  - ALL ELECTRIC, TELEPHONE AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY'S SPECIFICATIONS. ALL UTILITY DISCONNECTORS SHALL BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANIES.
  - CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNLESS WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.
  - THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TWENTY FOUR INCHES (24").
  - BEFORE THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE CITY UTILITIES, THE CONTRACTOR SHALL EXAMINE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITIES CROSSINGS AND INTERFERENCES WITH EXISTING AND PROPOSED UTILITIES AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND NOTIFICATIONS AND AT NO ADDITIONAL COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND LINES OR STRUCTURES.
  - ALL WATER LINE FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING PER DETAIL (D12) (REFER TO DETAIL SHEETS) OR APPROVED EQUIVALENT ANCHOR.
  - ALL WATER AND SEWER LINE PIPE BEDDING SHALL BE INSTALLED PER DETAIL (D22) (REFER TO DETAIL SHEETS).
  - CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY CONSTRUCTION DIVISION TO SCHEDULE A PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO STARTING ANY WORK ON THIS PROJECT. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
  - EXISTING UTILITIES ACROSS OR ALONG THE LINE OF THE PROPOSED WORK ARE SHOWN ONLY IN AN APPROXIMATE LOCATION ON THESE PLANS. CONTRACTOR SHALL CALL THE STATE ONE-CALL SYSTEM OR IDENTIFIED UTILITY COMPANY PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND LINES OR STRUCTURES.
  - FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY'S UTILITY DEPARTMENT STANDARD OR PER DETAIL (D15) (REFER TO DETAIL SHEETS).
  - ALL FIRE HYDRANTS SHALL BE PROVIDED WITH AN APPROVED GATE VALVE A MAXIMUM OF 5'-0" FROM HYDRANT.
  - CONTRACTOR SHALL NOT TAP OR OTHERWISE PENETRATE EXISTING WATER AND SEWER MAIN LINES WITHOUT PRIOR APPROVAL FROM THE CITY'S INSPECTOR. CONTRACTOR IS RESPONSIBLE FOR AVOIDING SPILLAGE OF RAW SEWAGE. CONTRACTOR SHALL PROVIDE ALL SEWER LINES AND REMEDIATION EQUIPMENT NECESSARY TO AVOID SPILLAGE. CONTRACTOR SHALL NOT OPERATE VALVES ON EXISTING WATER MAINS.
  - THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING SERVICES AND MARKS, AND ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR'S EXPENSE.
  - IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO SPECIFICALLY MENTION WORK WHICH IS REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
  - CONTRACTOR SHALL MATCH TOP OF PROPOSED SANITARY SEWER MANHOLE TO PROPOSED GRADES. IF A DISCREPANCY OCCURS BETWEEN PROPOSED GRADES AND PROPOSED STRUCTURE TOPS, THE GRADING SHALL CONTROL. IF THE DISCREPANCY IS MORE THAN 4" ABOVE THE CONTRACTOR SHALL CONTACT THE ENGINEER TO REWORK.
  - ALL UTILITIES, INCLUDING STORM SEWER SHOWN WITHIN PUBLIC EASEMENTS OR RIGHT OF WAYS SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY'S SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE CONSTRUCTED TO THE CLIENT'S SPECIFICATIONS, THE GOVERNING AGENCY'S SPECIFICATIONS, OR FOLLOW THE "10" STATE STANDARD RECOMMENDED STANDARD FOR WATER FACILITIES, CURRENT EDITION," UNLESS OTHERWISE MORE STRINGENT. IF THERE IS A QUESTION AS TO WHICH SPECIFICATIONS SHOULD APPLY THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION.
  - IF SANITARY SEWER MANHOLE IS LOCATED IN A GRASSY AREA OR SLOPE, CONTRACTOR SHALL CONSTRUCT MANHOLE TOP TO AN ELEVATION 6" HIGHER THAN THE PROPOSED GRADES. IF THIS CANNOT BE ACHIEVED THEN CONTRACTOR SHALL USE A WATER TIGHT MANHOLE COVER THAT MEETS OR EXCEEDS THE OWNER'S DEVELOPER'S STANDARD SPECIFICATIONS.
  - ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED BEFORE ACCEPTANCE. SEE SITE WORK SPECIFICATIONS.
  - CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES ON ADJUSTING EXISTING UTILITY LINE AS REQUIRED BY CUT AND FILL AT NO ADDITIONAL COST TO THE OWNER.
  - CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD AND ARCHITECT SHOULD ANY LIGHT POLE OR SIGN FOUNDATIONS CONFLICT WITH ANY UTILITY AND FOR STORM SEWER SYSTEM.
  - GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL TAP AND THE OFFERS REQUIRED AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
  - ELECTRICAL SERVICE TO PAD MOUNTED TRANSFORMER SHALL BE RUN UNDERGROUND, FROM ROAD RIGHT-OF-WAY TO TRANSFORMER LOCATION. ASSOCIATED COST BY GENERAL CONTRACTOR, UNLESS OTHERWISE SPECIFIED.
  - UTILITY CONTRACTOR SHALL FURNISH TELEPHONE COORDINATES AS SHOWN ON PLAN, VERIFY LOCATION OF THE IN AT TELEPHONE COMPANIES SERVICE LINE, PROVIDE NYLON PULL CORD INSIDE CONDUIT.
  - ALL DIMENSIONS, UNLESS OTHERWISE NOTED, ARE MEASURED TO THE CENTERLINE OF PIPE OR FITTING, FACE OF CURB, THE EDGE OF PAVEMENT, THE EDGE OF SIDEWALK, THE FACE CORNER OF THE BUILDING.
  - ALL WATER AND SANITARY LEADS TO BUILDING SHALL END 5' FEET OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END, UNLESS OTHERWISE SPECIFIED.
  - REFER TO PLUMBING SHEETS FOR LOCATION OF SEWER, DOMESTIC, AND IRRIGATION CONNECTIONS.
  - ALL TRENCHING, PIPE LAYING, AND BACK FILLING PROCEDURES SHALL BE IN ACCORDANCE WITH FEDERAL DRINKING WATER REGULATIONS.
  - GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
  - ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND/OR ANY GOVERNING AGENCY REQUIREMENTS UNLESS OTHERWISE SPECIFIED.

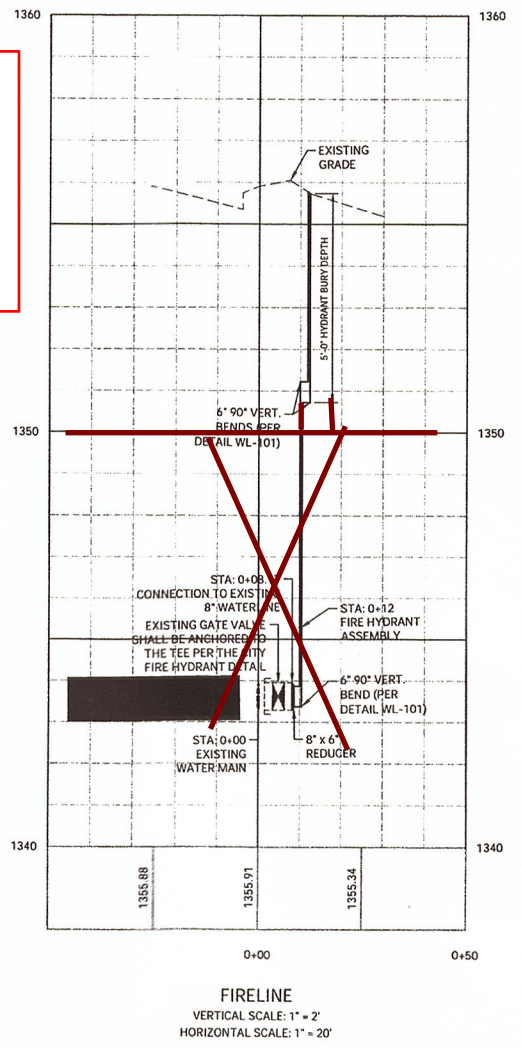


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FH is 253' east of center line of Maize Rd.  
27' south of drive on north side of  
2768 N. Maize  
  
FH valve is 3.5' NE of FH

existing watermain  
at 1350

they connected  
1-8"x6" reducer to  
existing valve  
3' of 6" diel  
a kennedy (storz)  
fire hydrant  
extention to  
hydrant



AS BUILTS

**KEMILLER**  
ENGINEERING PA

117 E. Lewis,  
Wichita, KS 67202

(316)264-0242

- NOTES LIST |** Items labeled by the following symbols are shown on this sheet:
- MAINTAIN MINIMUM 18" VERTICAL SEPARATION
- DETAIL LIST |** Items labeled by the following symbols are shown on this sheet and referenced on detail sheets, which are included as part of this set of plans.
- CLEAN OUT DETAIL
- ONSITE BENCHMARK**  
ON-SITE BENCHMARK NO. 1: TOP OF CURB AT END APPROXIMATELY 7' WEST OF EAST END OF RETAINING WALL AT NORTH LINE OF PROPERTY.  
ELEVATION: 1356.23 (DATUM NAVD88)

FIRELINE PLAN AND PROFILE

RETAIL DEVELOPMENT FOR:  
EAST SIDE INVESTMENTS  
CENTRAL PARK PLAZA, LOT 3  
WICHITA, KANSAS

DRAWN BY	JON
APPROVED BY	TAB
JOB NUMBER	14-1139
ISSUE DATE	05/22/2014
DESCRIPTION	CIVIL DESIGN PLANS
SHEET NO.	C6.1

