

GENERAL NOTES:

UTILITY SERVICE LINES, POLES, VALVE BOXES, METERS, 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 WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

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 | 811 |
| COX COMMUNICATIONS (CABLE) | 316-262-0661 |
| AT&T (TELEPHONE) | 316-268-2008 |
| WESTAR ENERGY (ELECTRIC) | 316-261-6512 |
| KANSAS GAS SERVICE (GAS) | 316-832-3126 |
| BLACK HILLS ENERGY (GAS) | 316-722-1809 |
| CITY OF BEL AIRE PUBLIC WORKS (WATER, SEWER) | 316-744-2888 |
| CITY OF WICHITA (WATER) | 316-268-4555 |
| SEDGWICK RURAL WATER DISTRICT #1 | 316-775-0100 |
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS. ALL COSTS FOR THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.
 - THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ADJUTING THE PROJECT LIMITS A MINIMUM OF TEN (10) DAYS ADVANCE NOTICE PRIOR TO START OF CONSTRUCTION.
 - NO SOIL BORINGS HAVE BEEN PERFORMED FOR THIS PROJECT. THE CONTRACTOR SHALL BEAR THE COSTS, AND RESPONSIBILITY FOR, ANY SOILS INVESTIGATION DEEMED NECESSARY FOR EXECUTION OF THE WORK.
 - ALL CONSTRUCTION AND MATERIALS, UNLESS OTHERWISE NOTED, TO COMPLY WITH CITY OF BEL AIRE SPECIFICATION AND STANDARDS.
 - NO SERVICES WILL BE INSTALLED AS PART OF THIS PROJECT.
 - THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL; TWO-WAY TRAFFIC MUST BE MAINTAINED THROUGHOUT THE PROJECT. TRAFFIC CONTROL DEVICES AND SIGNING SHALL BE IN ACCORDANCE OF THE LATEST ADDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 - ANY FENCE REMOVED FOR CONSTRUCTION SHALL BE REPAIRED IN A CONDITION EQUAL TO, OR BETTER THAN, ORIGINAL AT NO ADDITIONAL COST TO THE OWNER. THIS COST SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.
 - RUBBLE REMOVAL - RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURE 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 THAT, IN THE OPINION OF THE ENGINEER, 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 US CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WOULD REQUIRE ADDITIONAL ARCHAEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION. THE COST OF DISPOSING OF RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION, INCLUDING LOADING AND HAULING SHALL BE SUBSIDIARY TO THE OTHER BID ITEMS.
 - 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 ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE. THIS COST IS SUBSIDIARY TO OTHER BID ITEMS.
 - CONTRACTOR SHALL NOT START WORK ON THE PROJECT UNTIL THE PROJECT INSPECTOR IS ASSIGNED TO THE PROJECT AND IS PRESENT ON THE SITE.
 - THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, SHOULDERS, AND ENTRANCES TO THE ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
 - UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND RESTORE THE PROJECT TO A CONDITION COMPARABLE TO EXISTING, DISTURBED AREAS OUTSIDE PAVEMENT SHALL BE RESTORED WITH THE SAME GRASS/SEED AS EXISTING SEEDING SHALL INCLUDE TOP SOIL PREPARATION, SEEDING AND MULCHING.
 - CONTRACTOR WILL BE REQUIRED TO COMPLY WITH THE EROSION CONTROL PLAN AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS FILED WITH THE NOTICE OF INTENT (NOI) AND DETAILED IN THE PROJECT PLANS. BMP'S SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING RECORDS OF THE REQUIRED INSPECTIONS AND MAINTENANCE PER THE SWPPP SUBMITTED WITH THE NOI.
 - OPENING AND CLOSING OF WATER VALVES SHALL BE DONE BY CITY OF BEL AIRE PERSONNEL ONLY.

- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RAVING AND REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED, REF. SITE WORK SPECIFICATIONS.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS, DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- THE GENERAL CONTRACTOR WILL 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 STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT RESIDENT MAINTENANCE ENGINEER. SPECIFICATIONS ADOPTED BY U.S.A. DEPARTMENT OF TRANSPORTATION MARCH 1, 1993, AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT.
- ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE RELEVANT UTILITY COMPANY OR REGULATORY AUTHORITY, AND THE SPECIFICATIONS FOR THE CONSTRUCTION OF THE EXISTING IMPROVEMENTS WHO ARE BEING ALTERED OR REPLACED. CONTRACTOR SHALL CONTRACT THE ENGINEER FOR SPECIFICATION SECTIONS FOR ITEMS SUCH AS LANDSCAPING AND IRRIGATION THAT ARE AFFECTED BY THE WORK BUT NOT COMPLETELY DETAILED OR SPECIFIED ON THESE PLANS.

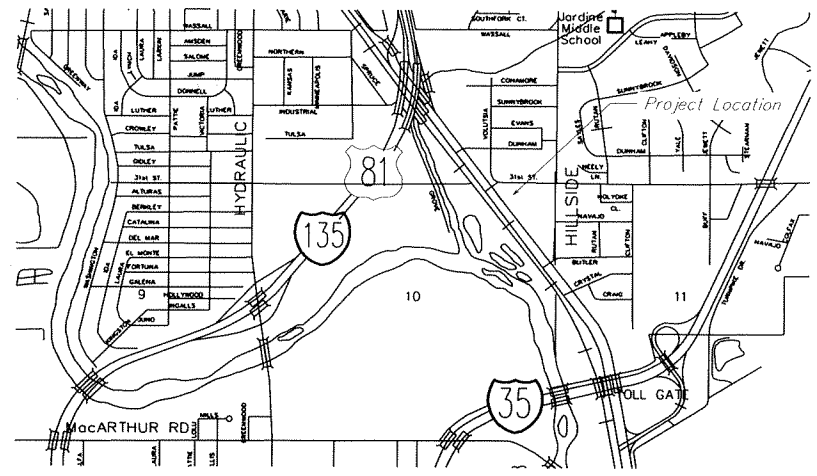
WETLANDS NOTICE:
ANY DEVELOPMENT, EXCAVATION, CONSTRUCTION, OR FILLING IN A U.S. CORPS OF ENGINEERS DESIGNATED WETLAND IS SUBJECT TO LOCAL, STATE AND FEDERAL APPROVALS. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND/OR RESTRICTIONS AND ANY VIOLATION WILL BE SUBJECT TO FEDERAL PENALTY. THE CONTRACTOR SHALL HOLD THE OWNER/DEVELOPER, THE ENGINEER AND THE LOCAL GOVERNING AGENCIES HARMLESS AGAINST SUCH VIOLATION.

WARRANTY/DISCLAIMER
THE DESIGNS REPRESENTED IN THE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS 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 ON A CONTINUING BASIS AT THE SITE.

NOTICE CERTIFICATION
ALL QUESTIONS REGARDING THE PREPARATION OF THE GENERAL CONTRACTOR'S BID SHALL BE DIRECTED TO THE OWNER'S CONSTRUCTION DEPARTMENT AT 918-615-7816. SUBCONTRACTORS MUST DIRECT THEIR QUESTIONS THROUGH THE GENERAL CONTRACTOR, THE CONSULTING ARCHITECT AND/OR THE CONSULTING ENGINEER SHALL NOT BE CONTACTED DIRECTLY WITHOUT PRIOR AUTHORIZATION FROM THE OWNER/DEVELOPER.

FLOOD CERTIFICATION:
THIS PROPERTY LIES IN ZONE "X" AND DOES LOCATE WITHIN ANY PRESENTLY ESTABLISHED 100-YEAR FLOOD PLAIN, AS SHOWN BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP FOR WICHITA, SEDGWICK COUNTY, KANSAS COMMUNITY

WATER PRIVATE PROJECT PLANS FOR QUIKTRIP STORE #313 2821 E. 31st STREET S. WICHITA, SEDGWICK COUNTY, KS. 1770 PPW (O.C.A. NO. 607853) GARY JANZEN, P.E., CITY ENGINEER AUGUST 2013



Vicinity Map
Not to Scale

MUNICIPAL CONTACT LIST:

- | | |
|--|---|
| CITY OF WICHITA
OFFICE OF CENTRAL INSPECTION DEPARTMENT - PLANNING DIVISION
CITY HALL, 7TH FLOOR
455 N. MAIN
WICHITA, KS. 67202
TEL: (316) 268-4477
FAX: (316) 268-4663
CONTACT: PAUL HAYS | OFFICE OF CENTRAL INSPECTION DEPARTMENT - INSPECTIONS DIVISION
CITY HALL, 7TH FLOOR
455 N. MAIN
WICHITA, KS. 67202
TEL: (316) 268-4648
FAX: (316) 268-4663
CONTACT: PAUL HAYS |
| CAPITAL IMPROVEMENT PROJECTS/ENGINEERING DEPARTMENT
CITY HALL, 7TH FLOOR
455 N. MAIN
WICHITA, KS. 67202
TEL: (316) 268-4236
FAX: (316) 268-4114
CONTACT: JULIANNE KALLMAN, P.E. | CITY TRAFFIC ENGINEER
CITY HALL, 7TH FLOOR
455 N. MAIN
WICHITA, KS. 67202
TEL: (316) 268-4393
FAX: (316) 268-4114
CONTACT: PAUL GUNZELMAN, P.E. |
| CITY OF WICHITA STORM WATER MANAGEMENT DEPARTMENT
CITY HALL, 8TH FLOOR
455 N. MAIN
WICHITA, KS. 67202
TEL: (316) 268-4498
CONTACT: SCOTT LINDEBAK, P.E. | CITY OF WICHITA WATER & SEWER UTILITIES
CITY HALL, 8TH FLOOR
455 N. MAIN
WICHITA, KS. 67202
TEL: (316) 268-4555
CONTACT: KERRY GIBSON
ALT. CONTACTS: GREG LOLLEY OR LeDONNA LAWRENZ
TEL: (316) 268-4501 |
| CITY FIRE DEPARTMENT
CITY HALL, 11TH FLOOR
455 N. MAIN
WICHITA, KS. 67202
TEL: (316) 268-4510
FAX: (316) 858-7702
CONTACT: CHIEF ROBERT THOMPSON | |

PRIVATE UTILITIES LIST:

- | | |
|---|---|
| ELECTRIC COMPANY (WESTAR ENERGY)
TEL: (316) 261-6315
CONTACT: SHANE PRICE
EMAIL: SHANE.PRICE@WESTARENERGY.COM | GAS COMPANY (KANSAS GAS SERVICE)
TEL: (316) 261-831-5664
CONTACT: CINDY LITTLEJOHN
EMAIL: CINDY.LITTLEJOHN@NEOK.COM |
| GAS COMPANY (BLACK HILLS ENERGY)
TEL: (316) 941-1654
CONTACT: DARYL KELLER
EMAIL: DARYL.KELLER@BLACKHILLSCORP.COM | TELEPHONE COMPANY (AT&T)
TEL: (316) 268-2762
CONTACT: JIM TOBEN
EMAIL: J7372@ATT.COM |
| CABLE COMPANY (COX COMMUNICATIONS)
TEL: (316) 260-7475
CONTACT: JEFF CAPPS
EMAIL: JEFF.CAPPS@COX.COM | |

PROJECT CONTACT LIST:

- | | |
|---|--|
| SURVEYOR OF RECORD
SAVOY COMPANY, P.A.
MARK A. SAVOY, L.S.
433 S. HYDRALIC
WICHITA, KS 67211
TEL: (316) 265-0005 | QT REAL ESTATE MANAGER
QUIKTRIP CORPORATION
JOE KIM
4705 S. 129TH EAST AVE.
TULSA, OK 74134
TEL: (918) 615-7140
FAX: (918) 606-8139 |
| ENGINEER OF RECORD
SCHWAB-EATON
ANNE STEPHENS, P.E.
8615 W. FRAZIER LANE, SUITE 2
WICHITA, KS 67212
TEL: (316) 722-4472 | QT CIVIL PROJECT MANAGER
QUIKTRIP CORPORATION
MATT BAER, R.L.A.
4705 S. 129TH EAST AVE.
TULSA, OK 74134
TEL: (918) 615-7381
FAX: (918) 615-7451 |

**As-Built Plans
Contractor:
Superintendent:
Foreman:
Company:
Inspector:
PDF by:**

**CK Contracting
Curtis Frye, The Riverside Group, Inc.
Terry Henry, CK Contracting
City of Wichita
Eric Strecker, Schwab-Eaton, PA
ELS, 07/14/14**

SHEET INDEX	
NO.	TITLE
1	COVER SHEET
2	WATER LINE PLAN
3	WATER LINE PLAN & PROFILE
4	DETAILS
5	DETAILS
6	DETAILS

BENCHMARKS:

- Site Benchmark #1
Square Cut on Top of Headwall at the South end of R.C.B.C. located 41' SE & 20' SW of the Westerly most N.W. Corner of subject Property.
Elev: 1283.71 NAVD88
- Site Benchmark #2
Square Cut on Top of Curb located 40.5' E. & 2.3' N. of the N.E. Corner of subject Property.
Elev: 1283.65 NAVD88
- Site Benchmark #3
Square Cut at N.W. Corner Concrete Pad for Mailboxes located 134' N. & 48' E. of the S.E. Corner of subject Property.
Elev: 1284.14 NAVD88

APPROVED AS NOTED BY
CITY ENGINEER OF WICHITA

San. Sewers _____
by City Engineer *Jim Fawcett* 10-18-13

Storm Sewers _____
by Storm Water Engineer _____

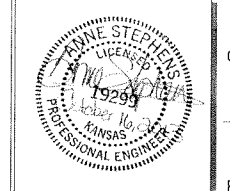
Driveway Approach _____

Water Mains _____
Jim Fawcett 10-8-13

Paving _____
PLI 10-23-2013

NOTE TO CONTRACTOR

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.



PROJECT NO.: 13.W008

Schwab Eaton

8615 W. Frazier, Suite 2
Wichita, Kansas
P. 316.722.4472
F. 316.722.4479

QuikTrip No. 0313R
K-15 & 31ST STREET SOUTH
Lot 1, Block A, QuikTrip 14th Addition, an Addition to
Wichita, Sedgwick County, Kansas



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PROTOTYPE: P-76 (8/01/13)
DIVISION: WICHITA
VERSION: 001
DESIGNED BY: AS
DRAWN BY: AL
REVIEWED BY: MB

REV.	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINER TO K-15 RCB
3	10/11/13	REVISED PER CITY COMMENTS
4	10/16/13	REVISION TO ADA DETAIL, FILL, SHEET C510

ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:
COVER SHEET

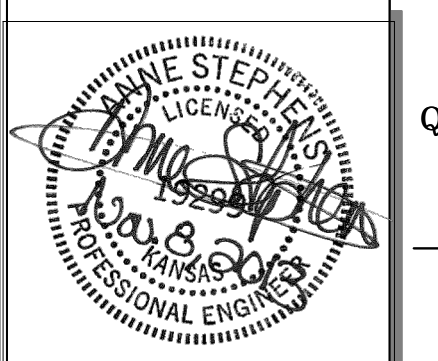
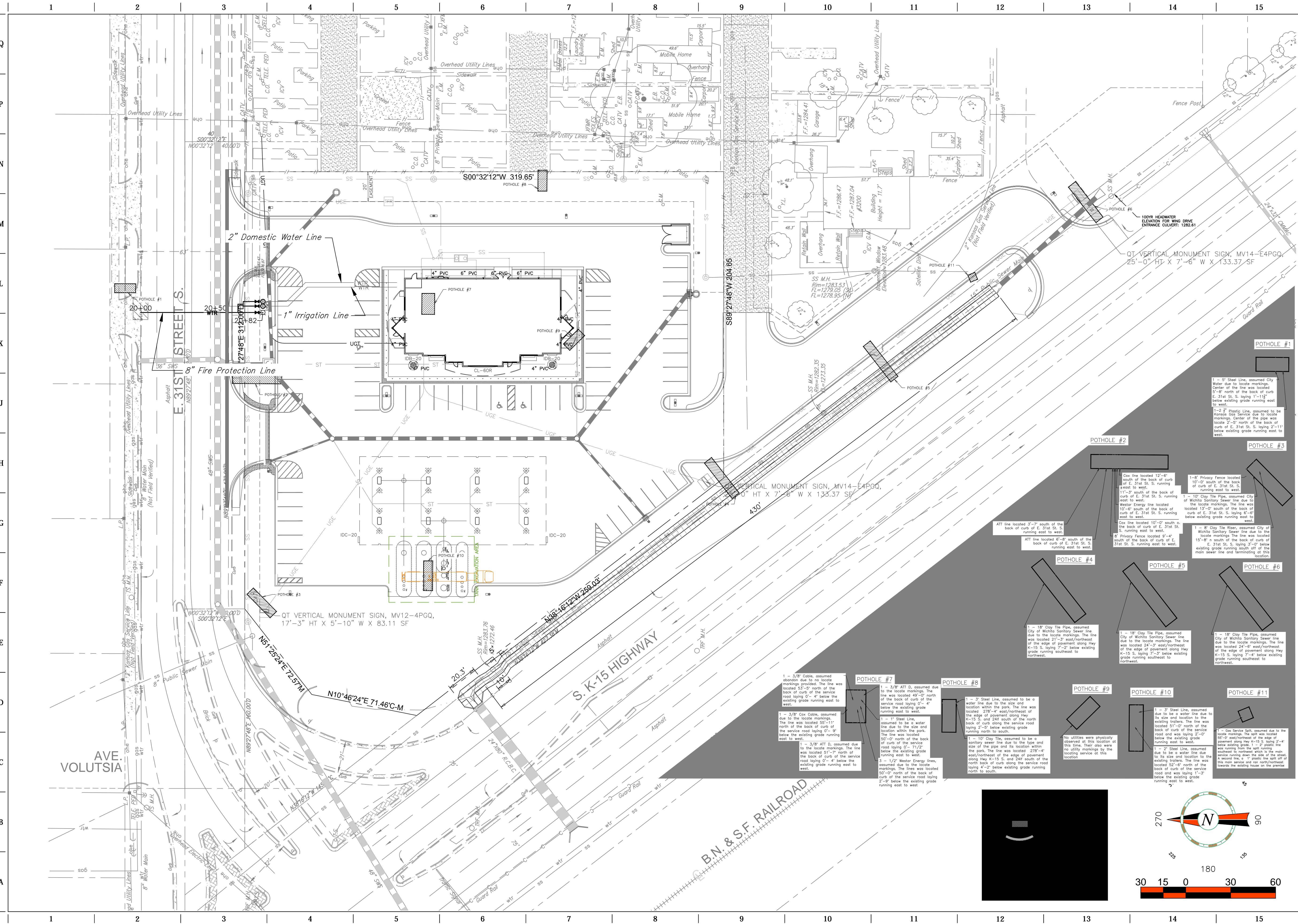
SHEET NUMBER:
1



1-800-344-7233
WICHITA, KS 316-657-2478

FILE LOCATION: \\Projects\13.W008_QuikTrip_Store_0313_Construction_Plans\CAD_Files\DWG\Water_PPW.dwg
USER: ALopez
DATE: 10/18/2013 2:32 PM
PLOT: 10/18/2013 1:39 PM

FILE LOCATION: \\Projects\13.W008 QuikTrip Store 0313 Construction Plans\CAD Files\DWG\Water PIP.dwg TAB NAME: Site Plan 2 USER: ALopez SAVED: 11/15/2013 9:19 AM PLOTTED: 1/14/2014 3:12 PM

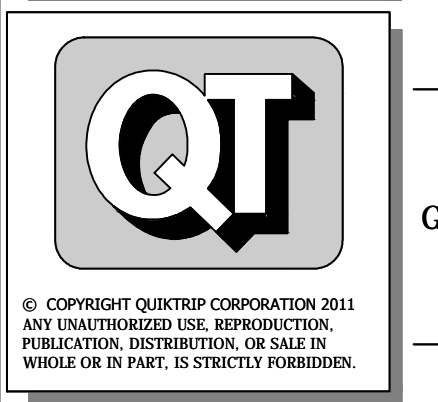


PROJECT NO.: 13.W008

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QuikTrip No. 0313R
K-15 & 31ST STREET SOUTH
Lot 1, Block A, QuikTrip 14th Addition, an Addition to
Wichita, Sedgewick County, Kansas



PROTOTYPE: P-76 (8/01/13)
DIVISION: WICHITA
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DRAWN BY: AL
REVIEWED BY: MB

REV	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINE TO K-15 RCB
3	10/17/13	REVISION PER CITY COMMENTS
4	10/17/13	REVISION TO ADD DETAIL P.T. SHEET C510
5	11/26/13	INDOT COMMENT REVISIONS
6		

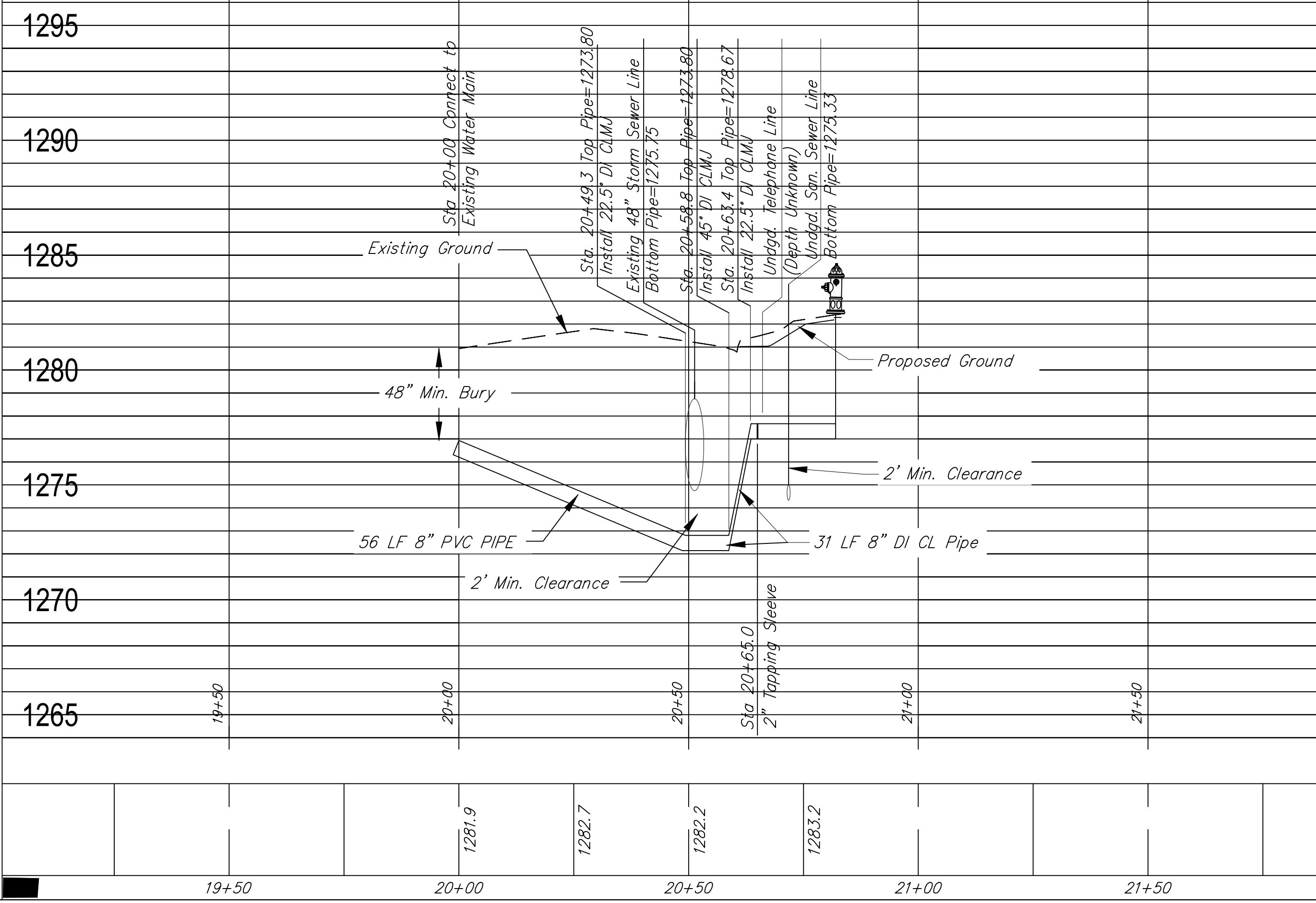
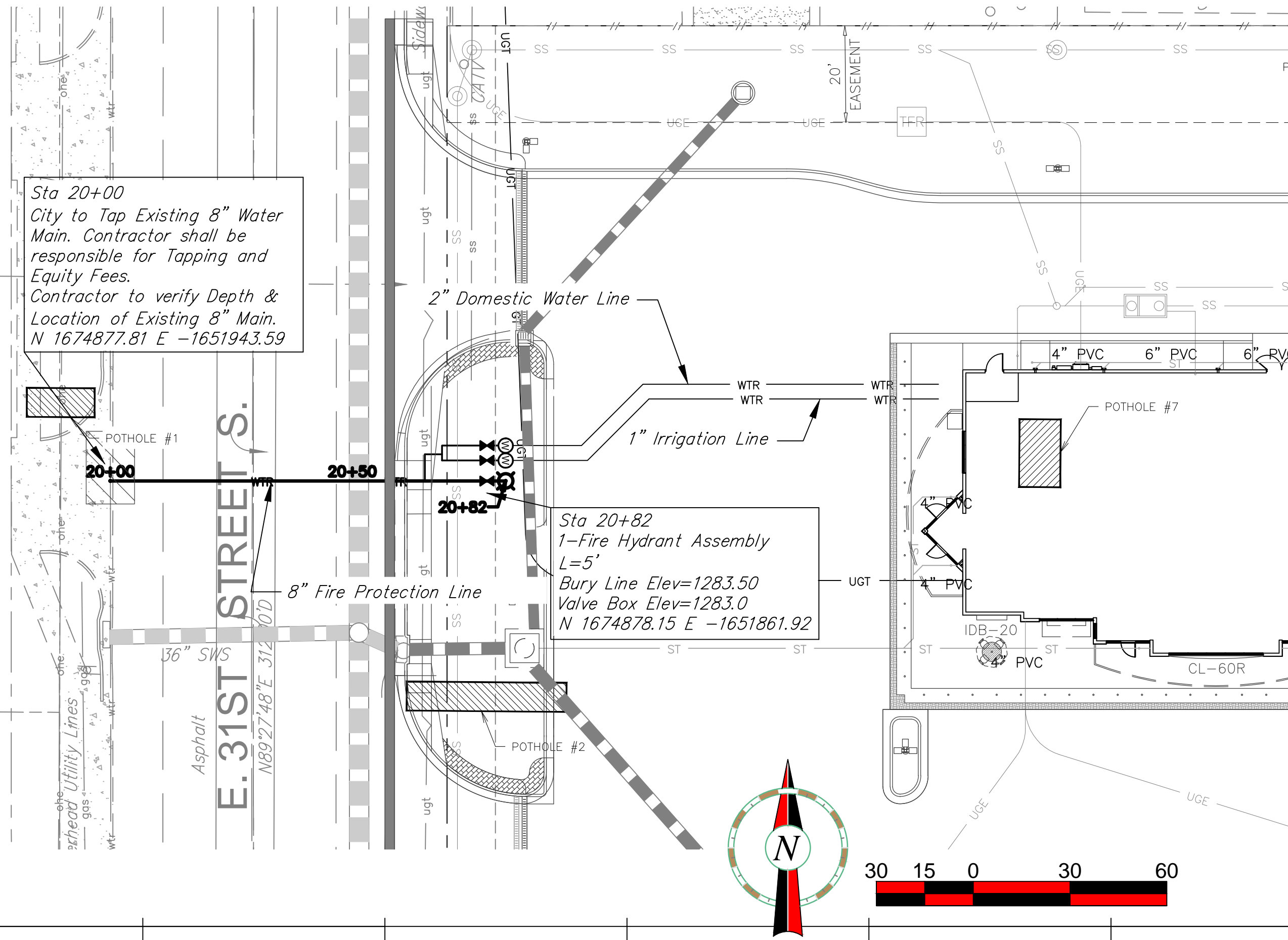
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
2

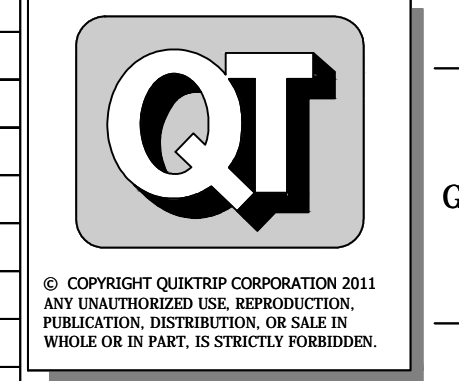
FILE LOCATION: \\Projects\13.W008 QuikTrip No. 0313 Construction Plans\CAD Files\DWG\Water PPW.dwg TAB NAME: Water Plan & Profile 3 USER: ALopez SAVED: 11/15/2013 9:19 AM PLOTTED: 11/14/2014 3:13 PM

SEE NEXT PAGE FOR AS BUILT



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QuikTrip No. 0313R
 K-15 & 31ST STREET SOUTH
 Lot 1, Block A, QuikTrip 14th Addition, an Addition to
 Wichita, Sedgwick County, Kansas



PROTOTYPE: P-76 (8/01/13)
 DIVISION: WICHITA
 VERSION: 001
 DESIGNED BY: AS
 DRAWN BY: AL
 REVIEWED BY: MB

REV	DATE	DESCRIPTION
1	9/8/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LINES TO K-15 RCB
3	10/17/13	REVISED PER CITY COMMENTS
4	10/19/13	REVISION TO ADA DETAIL PTL. SHEET G510
5	11/26/13	REVISION TO ADA DETAIL PTL. SHEET G510
6	11/26/13	REVISION TO ADA DETAIL PTL. SHEET G510

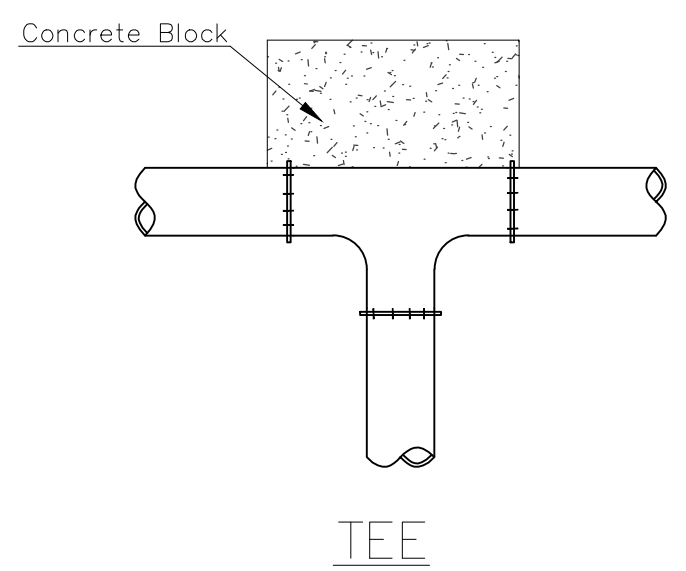
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:
 PLAN & PROFILE

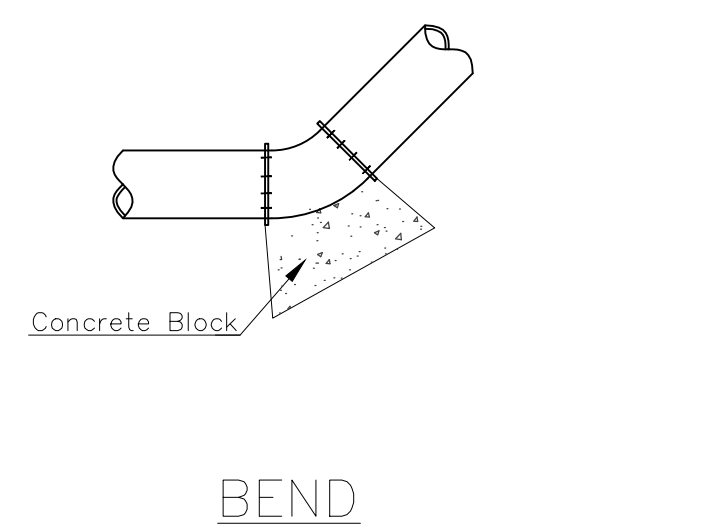
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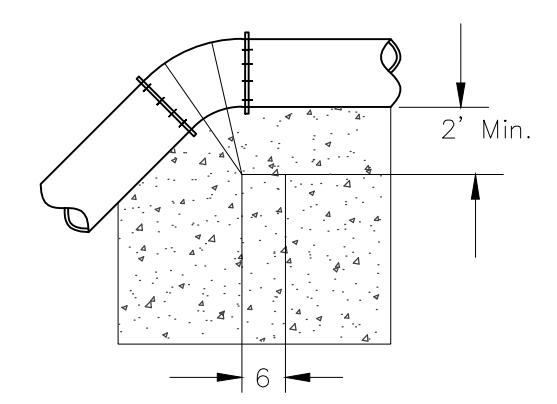
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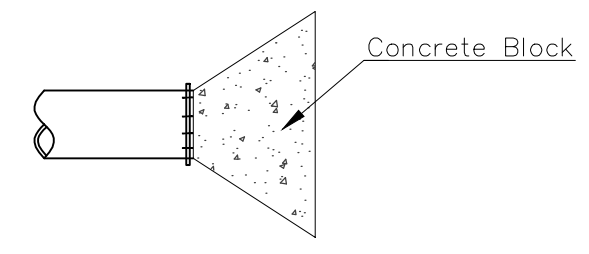
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BEND



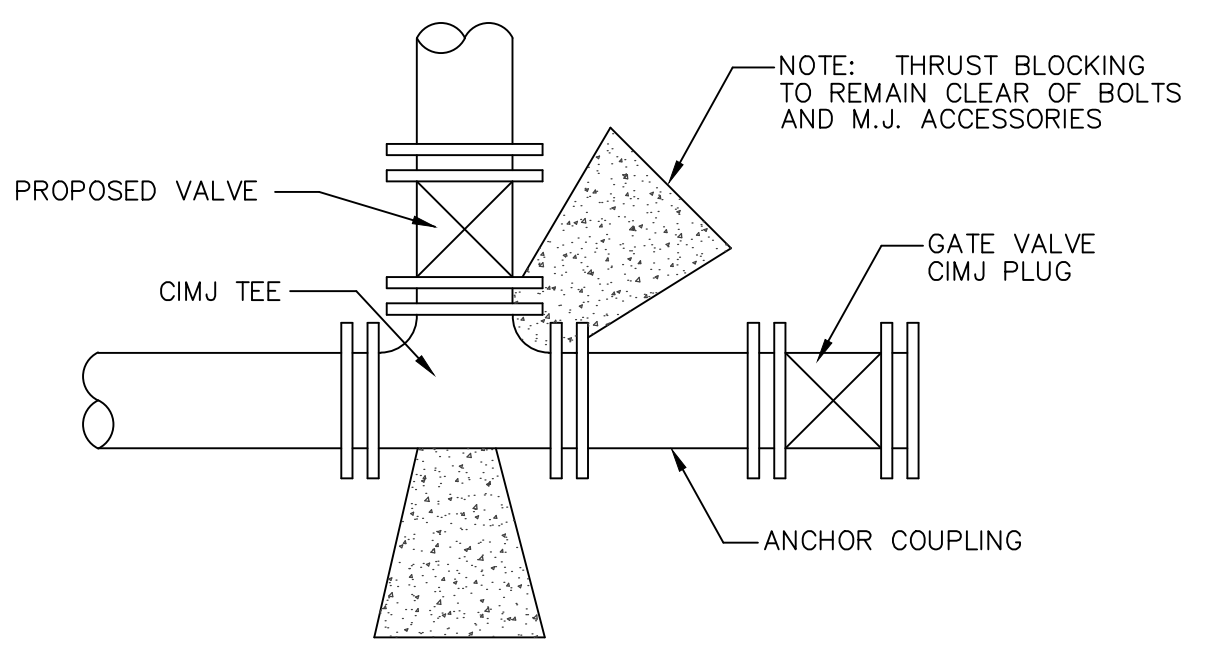
VERTICAL BEND



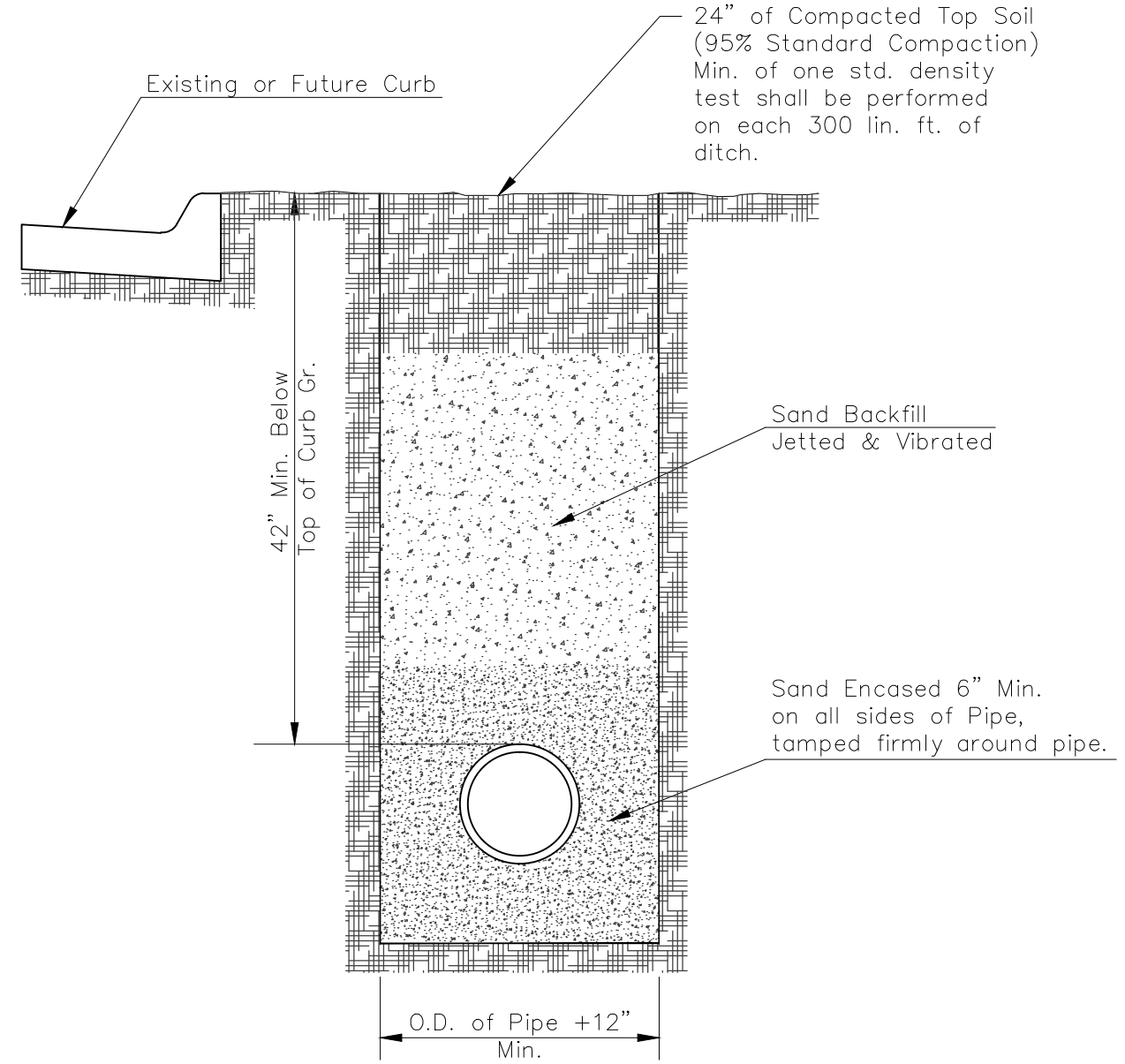
PLUG

PIPE SIZE	THRUST AT FITTINGS IN TONS-AT 150#/IN ² P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

TYPICAL THRUST BLOCKS



KEY BLOCK DETAIL

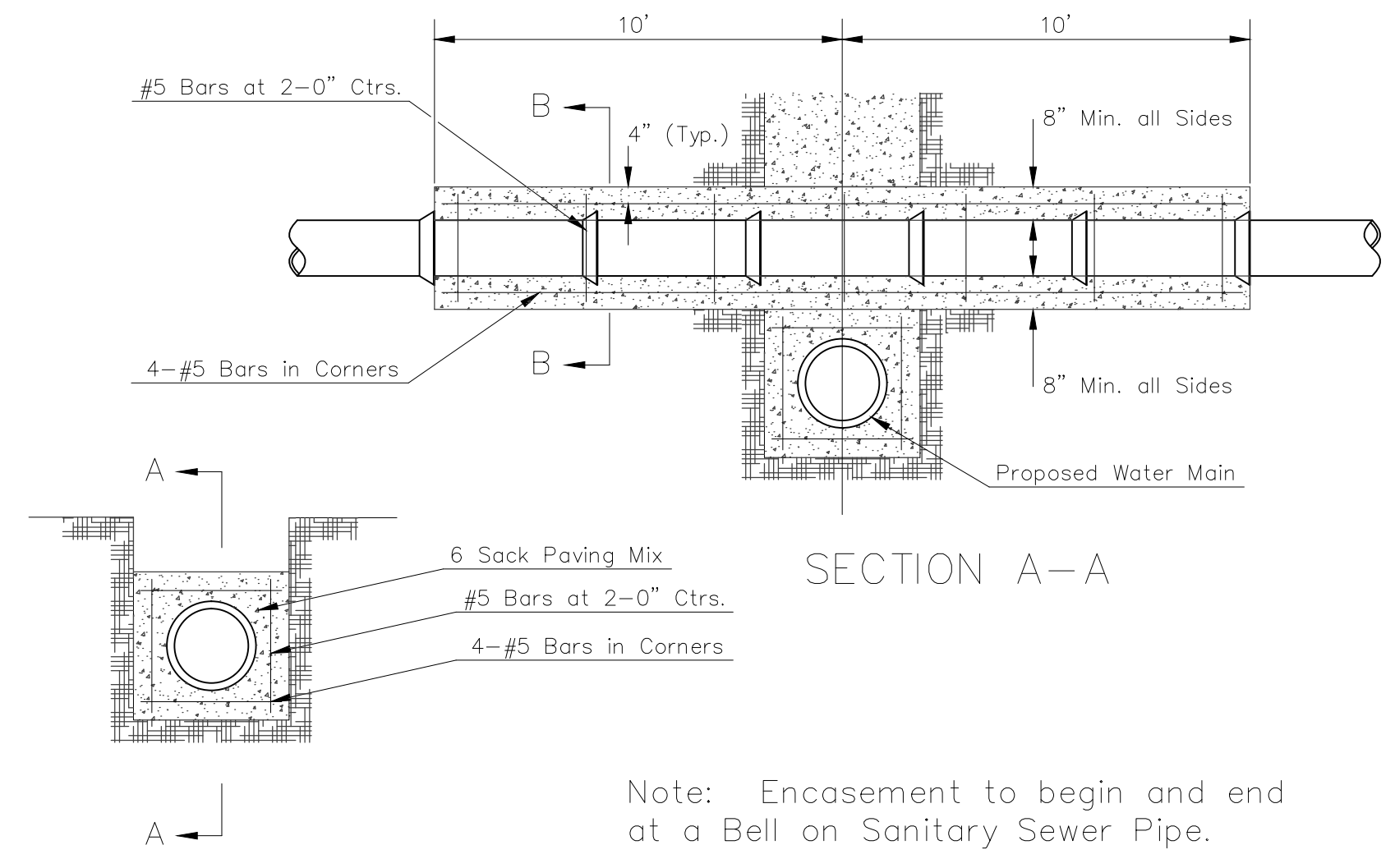


SETTLEMENT & COMPACTION ON CITY AND COUNTY ROAD RIGHT-OF-WAY EXCEPT UNDER PAVEMENT

Standard Density Test, as described in the latest addition of ASTM D698, shall be performed to verify the above requirements to the Satisfaction of the Bel Aire City Engineer. All testing costs shall be included in the unit price bid for the pipe in place.

When laying under paving, parallel with the centerline of the street, a minimum of one (1) Standard Density Test shall be performed on each 300 lined feet of ditch.

PAVEMENT REPLACEMENT & DITCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS

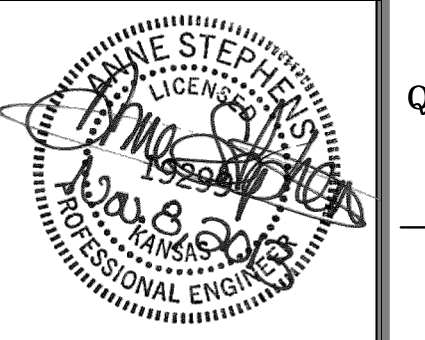


REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

Standard Density Test, as described in the latest addition of ASTM D698, shall be performed to verify the above requirements to the Satisfaction of the Sedgwick County Director of Public Works. All testing costs shall be included in the unit price bid for the pipe in place.

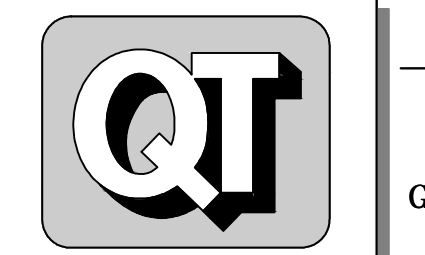
When laying under paving, parallel with the centerline of the street, a minimum of one (1) Standard Density Test shall be performed on each 300 lined feet of ditch.

PAVEMENT REPLACEMENT & DITCH COMPACTION UNDER EXISTING AND PROPOSED COUNTY ROADS



PROJECT NO.: 13.W008
Schwab Eaton
8615 W. Frazier, Suite 2
Wichita, Kansas
p. 316.722.4472
f. 316.722.4479

QuikTrip No. 0313R
K-15 & 31ST STREET SOUTH
Lot 1, Block A, QuikTrip 14th Addition, an Addition to
Wichita, Sedgwick County, Kansas



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PROTOTYPE:	P-76 (8/01/13)
DIVISION:	WICHITA
VERSION:	001
DESIGNED BY:	AS
DRAWN BY:	AL
REVIEWED BY:	MB

REV	DATE	DESCRIPTION
1	9/6/13	QT COMMENT REVISIONS
2	10/2/13	ADDED WEST DITCH LAYER TO K-15 RCB
3	10/17/13	REVISED PER CITY COMMENTS
4	10/19/13	REVISION TO ADA DETAIL P.T. SHEET G510
6	11/26/13	ADOT COMMENT REVISIONS

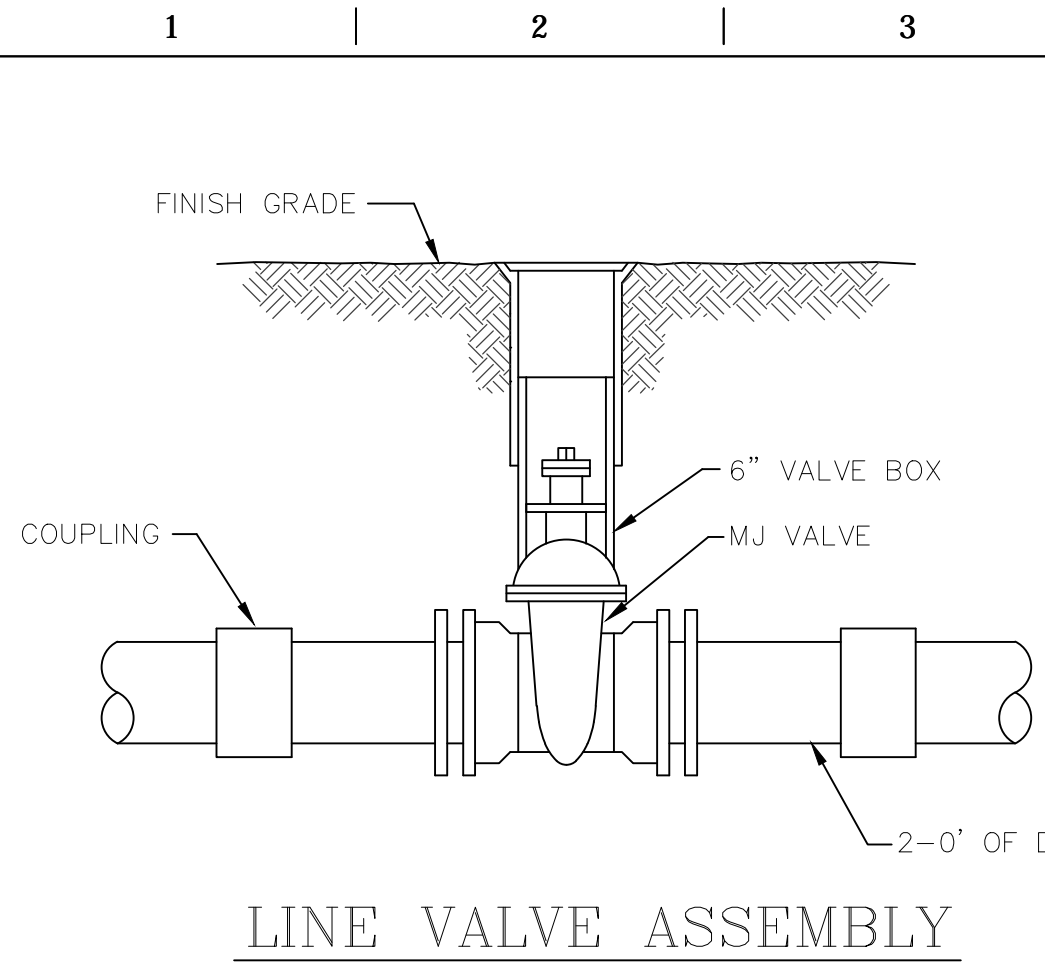
ORIGINAL ISSUE DATE: 08/26/2013

SHEET TITLE:
DETAILS

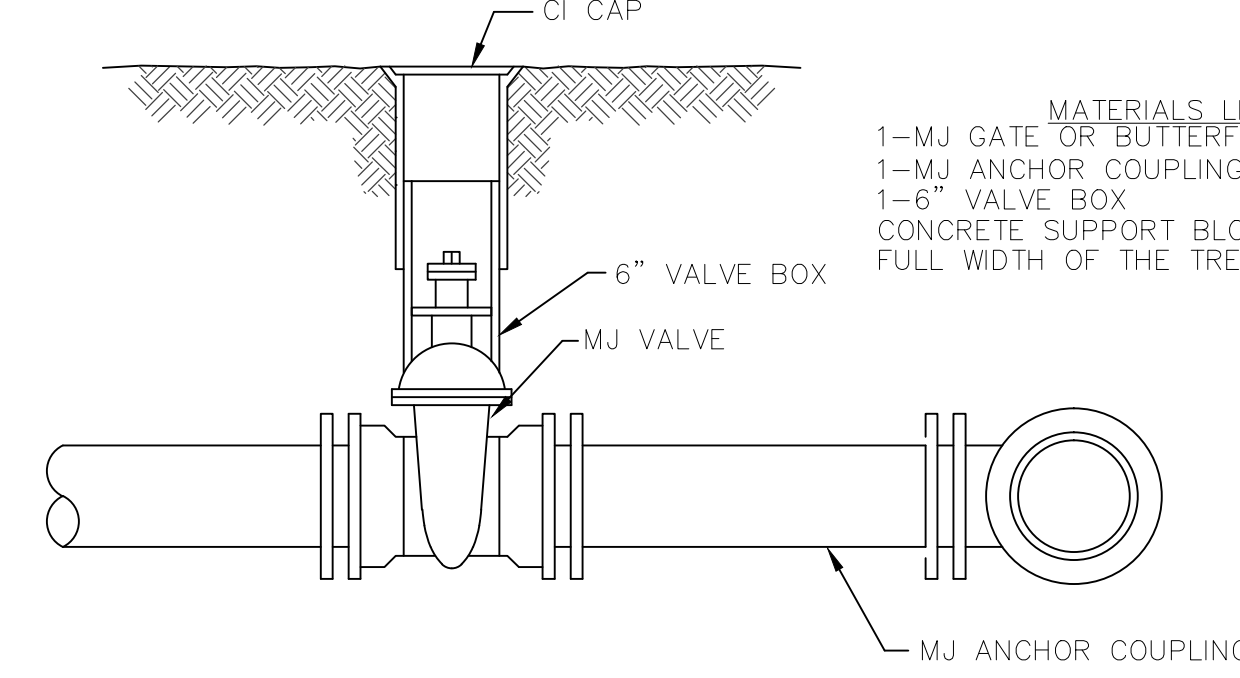
SHEET NUMBER:
4

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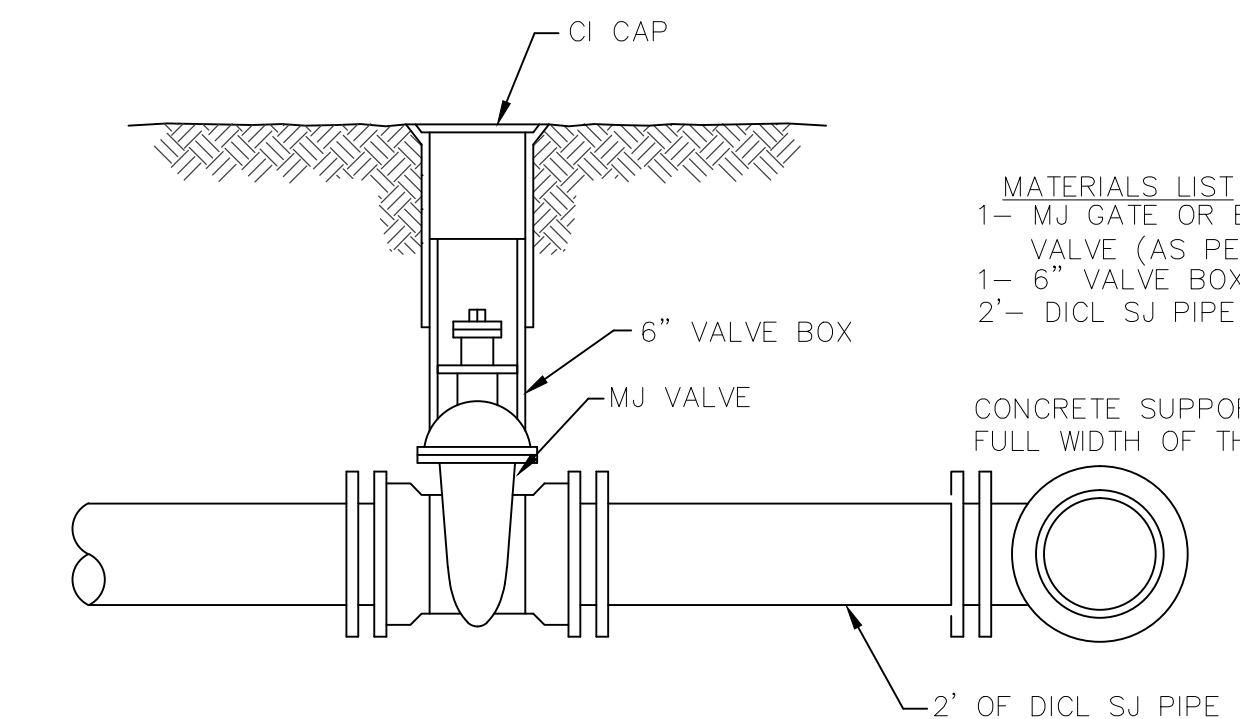
FILE LOCATION: \\Projects\13.0008 QuikTrip Store 0313 Construction Plans\CAD Files\DWG\Water PPW.dwg TAB NAME: Details 6 USER: ALopez SAVED: 11/15/2013 9:19 AM PLOTTED: 1/14/2014 3:14 PM



- MATERIALS LIST**
 1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 1-6\"/>

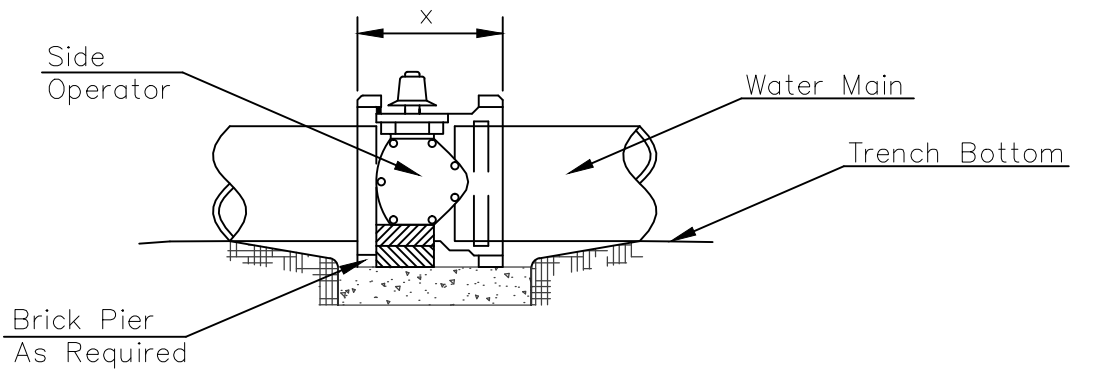


- MATERIALS LIST**
 1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 1-MJ ANCHOR COUPLING (12\"/>



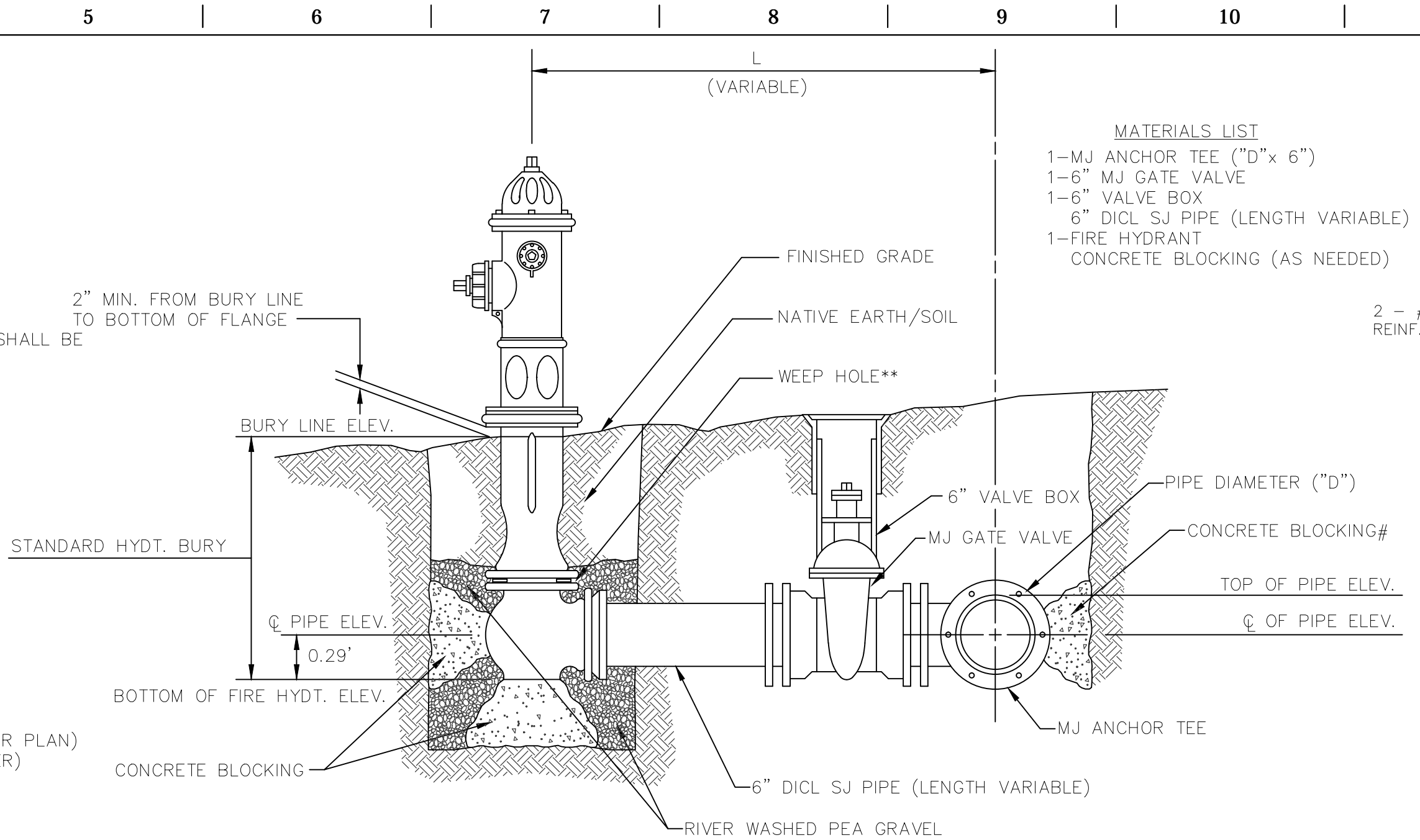
- MATERIALS LIST**
 1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 1-6\"/>

VALVE ASSEMBLY



- NOTES**
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. Larger lines to be detailed on plans.
 - 6\"/>
 - Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION

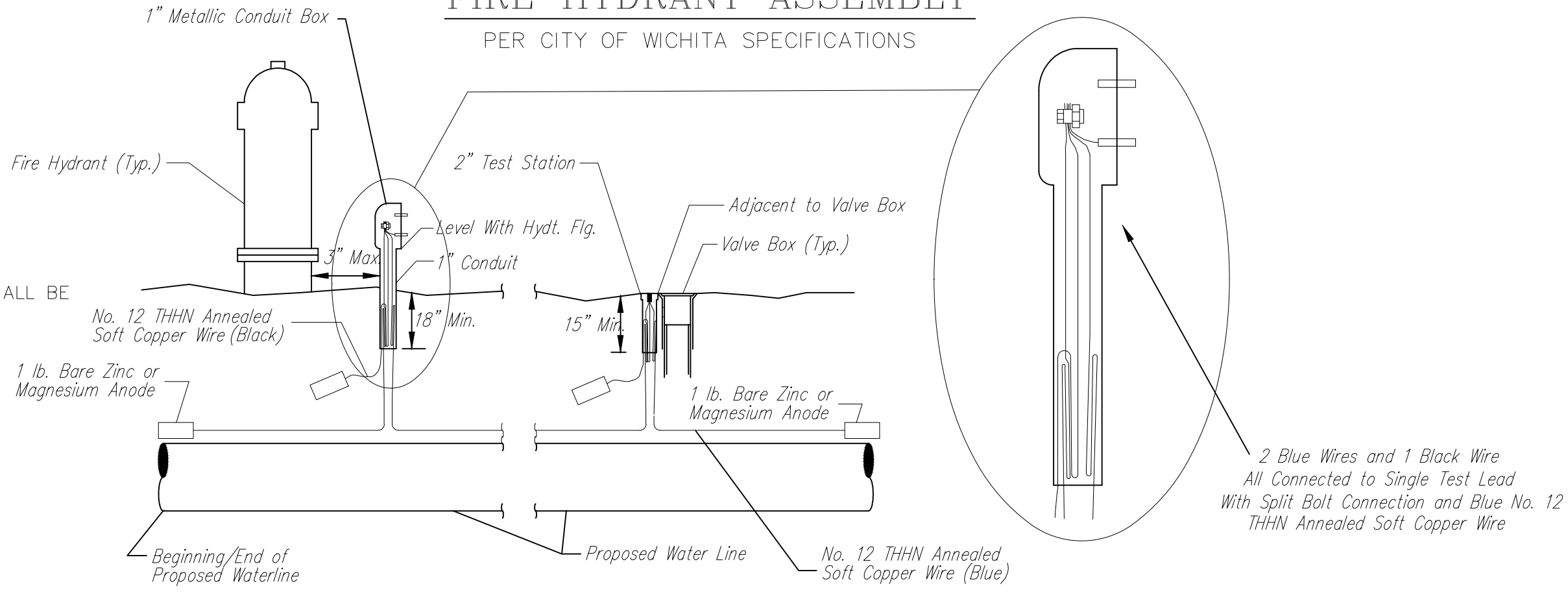


- MATERIALS LIST**
 1-MJ ANCHOR TEE (\"/>

- ** CAUTION! WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES.**
- # CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.**
- * IF HYDRANT BURY IS IN EXCESS OF 5', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY.**

FIRE HYDRANTS REQUIRED			
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*
20+81.74	1283.50	1278.67	5.5

FIRE HYDRANT ASSEMBLY
 PER CITY OF WICHITA SPECIFICATIONS



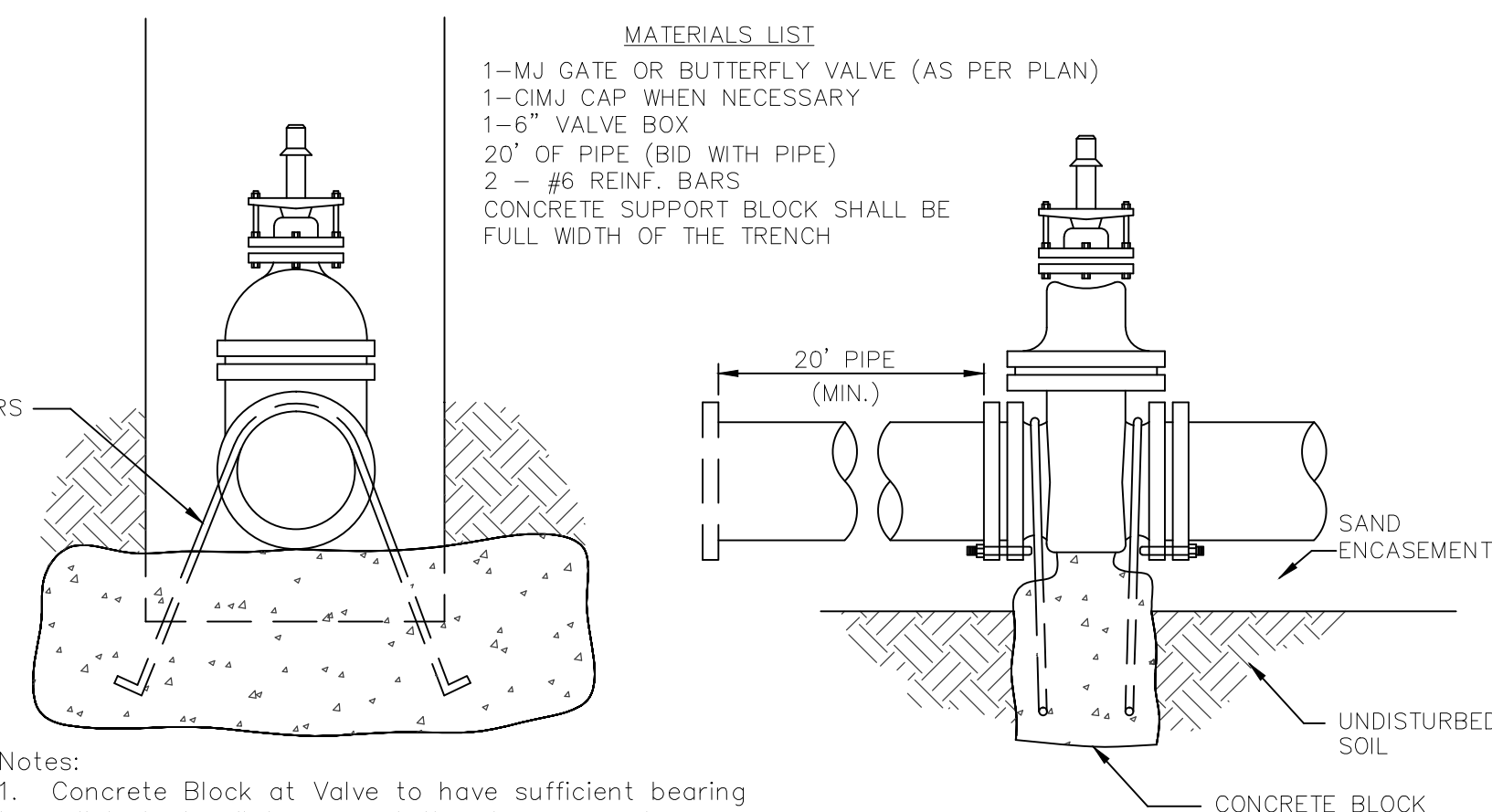
TRACER WIRE
 Conductive type pipe locator/tracer wire shall be installed to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. Split-bolt connectors shall be used at splice 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 1 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. 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\"/>

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 shall be attached to a 1 inch rigid galvanized conduit with a minimum length of 36\"/>

ANODES
 The anodes shall be 1 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

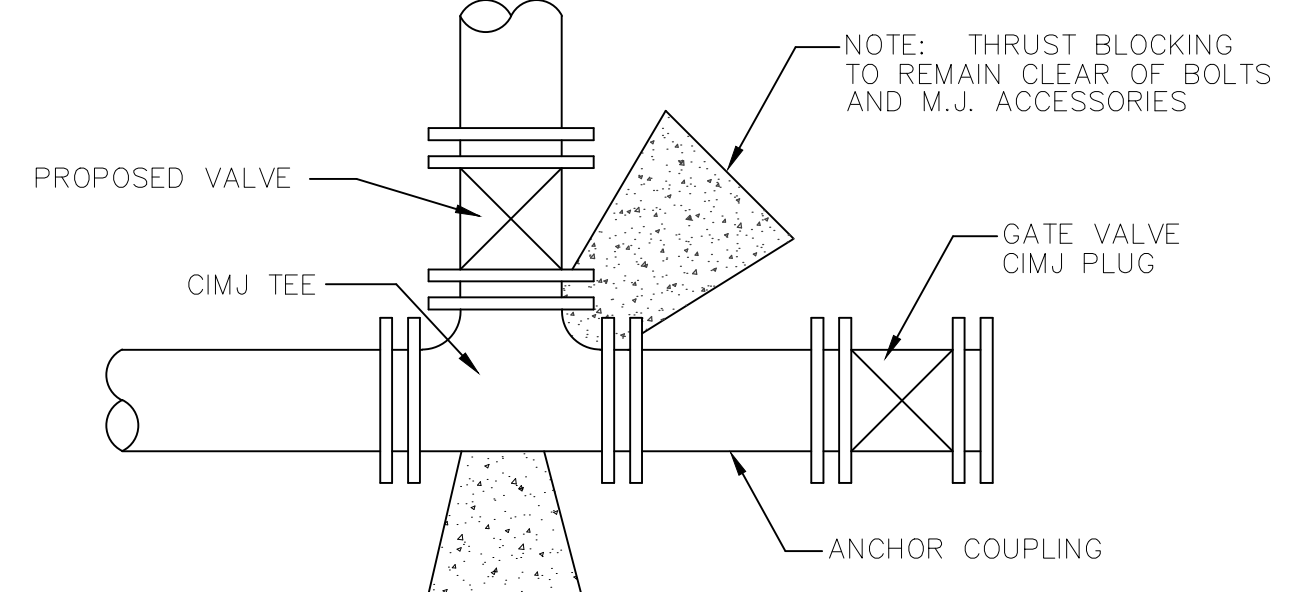


- MATERIALS LIST**
 1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 1-CIMJ CAP WHEN NECESSARY
 1-6\"/>

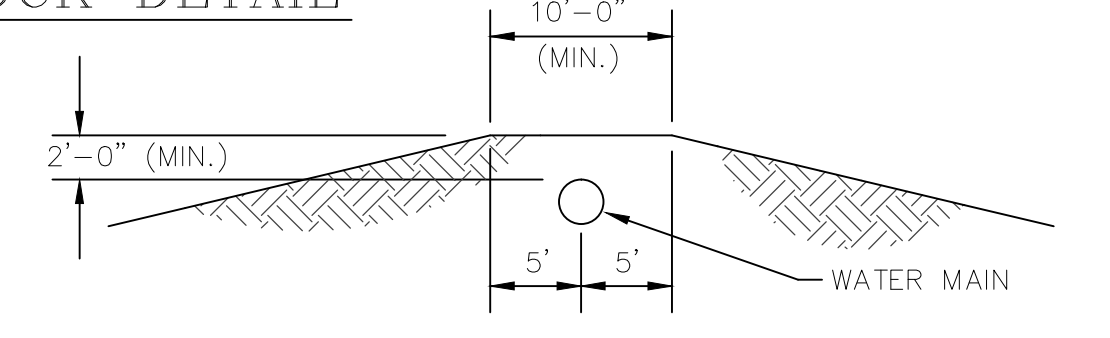
- Notes:**
- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
 - The thrust block shall be constructed such that bolts, nuts, and 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 #/in. ²
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL

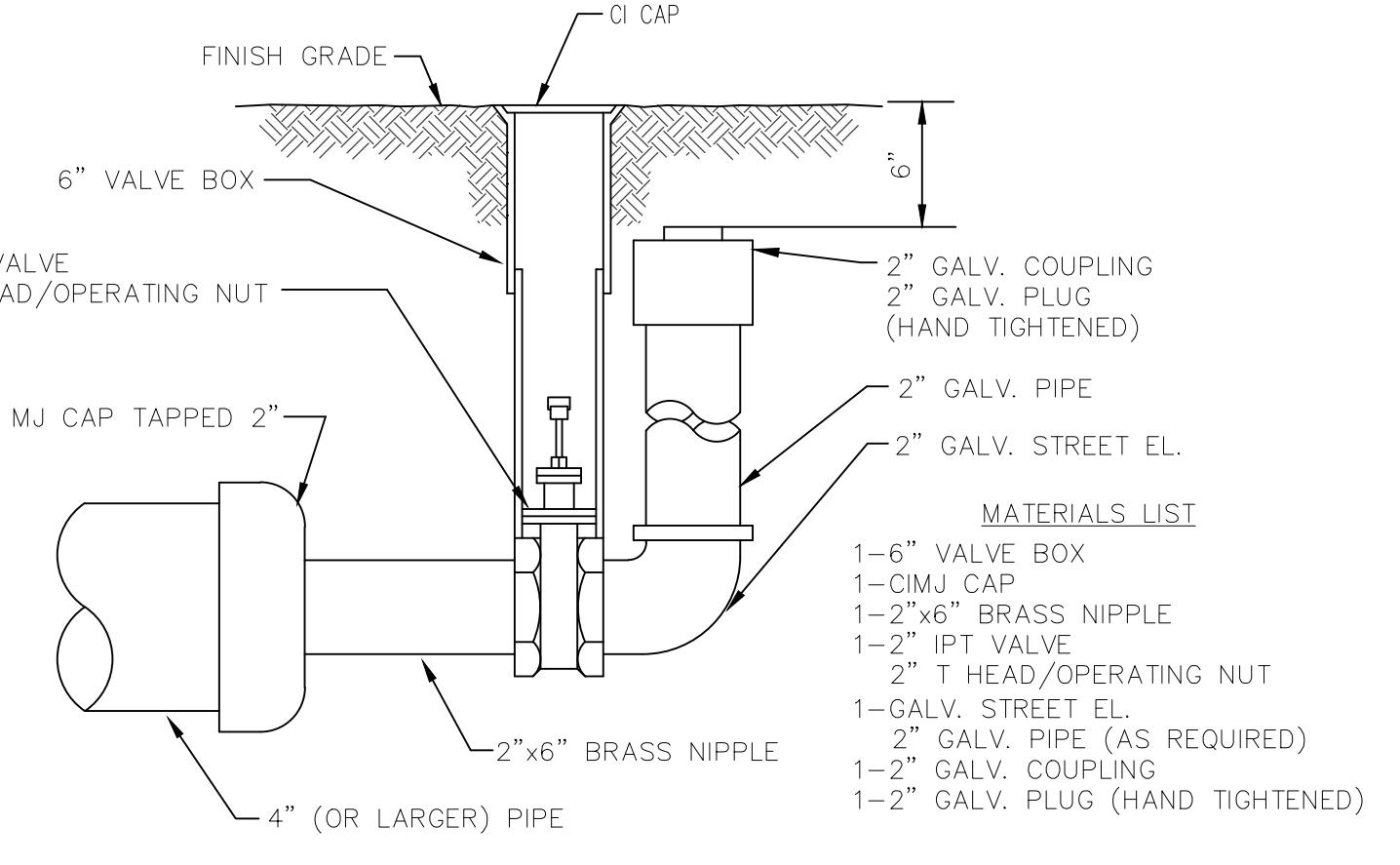


KEY BLOCK DETAIL



PROTECTIVE FILL DETAIL

MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN (2) FEET. (COST SUBSIDIARY TO PIPE INSTALLATION)



- MATERIALS LIST**
 1-6\"/>

2\"/>



PROJECT NO.: 13.W008

Schwab Eaton

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QuikTrip No. 0313R
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3	10/17/13	REVISED PER CITY COMMENTS
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5	11/6/13	QT FINAL COMMENT REVISIONS
6	11/26/13	RDOT COMMENT REVISIONS

SHEET TITLE:
 FIRE HYDRANT & WATER VALVE DETAILS

SHEET NUMBER:
 6

ORIGINAL ISSUE DATE: 08/26/2013