

GENERAL NOTES:

- Contractor will be required to provide notice to utility companies a minimum of seventy-two (72) hours prior to any excavation, as follows:
 Kansas One-Call 687-2470
 The Contractor must notify the following in case of an emergency:
 Cox Communications 262-4270
 Kansas Gas Service 1-888-482-4950
 Westar Energy 363-8650
 Black Hills Energy 1-800-303-0357
 AT&T 268-2245
 City of Wichita Water Dept. 268-4563
 City of Wichita Sewer Maint. 268-4024
 City of Wichita Storm Sewer Maint. 268-4090
 City of Wichita Traffic Maint. 268-4034
 Conoco Phillips Pipeline Co. 1-877-267-2290
 Southern Star Pipeline Co. 529-6600
 Kinder-Morgan Pipeline Co. 1-888-844-5658
- Utility service lines, poles, valve boxes, meters, and etcetera 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.
- Rubble from the removal of miscellaneous structures 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, in the opinion of the Engineer, that 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 would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. 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.
- 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.
- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.
- 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 in accordance with state laws.
- All existing and proposed erosion control measures including silt fencing, erosion control mat, straw bales, inlet barriers, and const. entrance shall be maintained throughout construction by the contractor and until project is accepted by the City of Wichita. The on-site engineer shall complete weekly reports on the status of erosion control measures. The contractor shall be required to comply with maintenance and/or replacement of erosion control measures as determined by the on-site engineer until project is accepted by City of Wichita. Maintenance and/or replacement of erosion control measures to be paid by L.S. bid item "Site Restoration".
- All excess excavation shall remain on-site and shall be stockpiled or spread at a location determined by the engineer.
- The Contractor shall adjust water valve boxes and fire hydrants as directed by the Engineer at the price bid for said adjustments. The Water Department shall field locate water valves one time during construction when requested by Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, water valve boxes or fire hydrants damaged during construction shall be repaired by the Contractor at his own expense.
- All water mains and appurtenances shall be installed in accordance with City of Wichita, Kansas Standard Specifications for Water Main Installations No. 145.33.
- Opening and closing of water valves shall be done slowly to prevent damage to the water distributions 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.
- Area will be graded and seeded by site contractor (separate project).
- 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 done without inspection will be required to be uncovered for inspection.

WATER DISTRIBUTION SYSTEM

to serve

LOT 1, BLOCK A GREAT PLAINS BUSINESS PARK 4TH ADD.

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. Interim City Engineer
 Private Project Number
 1683 PPW (607853)

Benchmarks

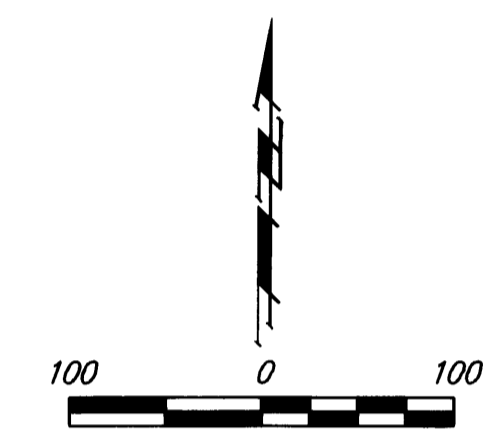
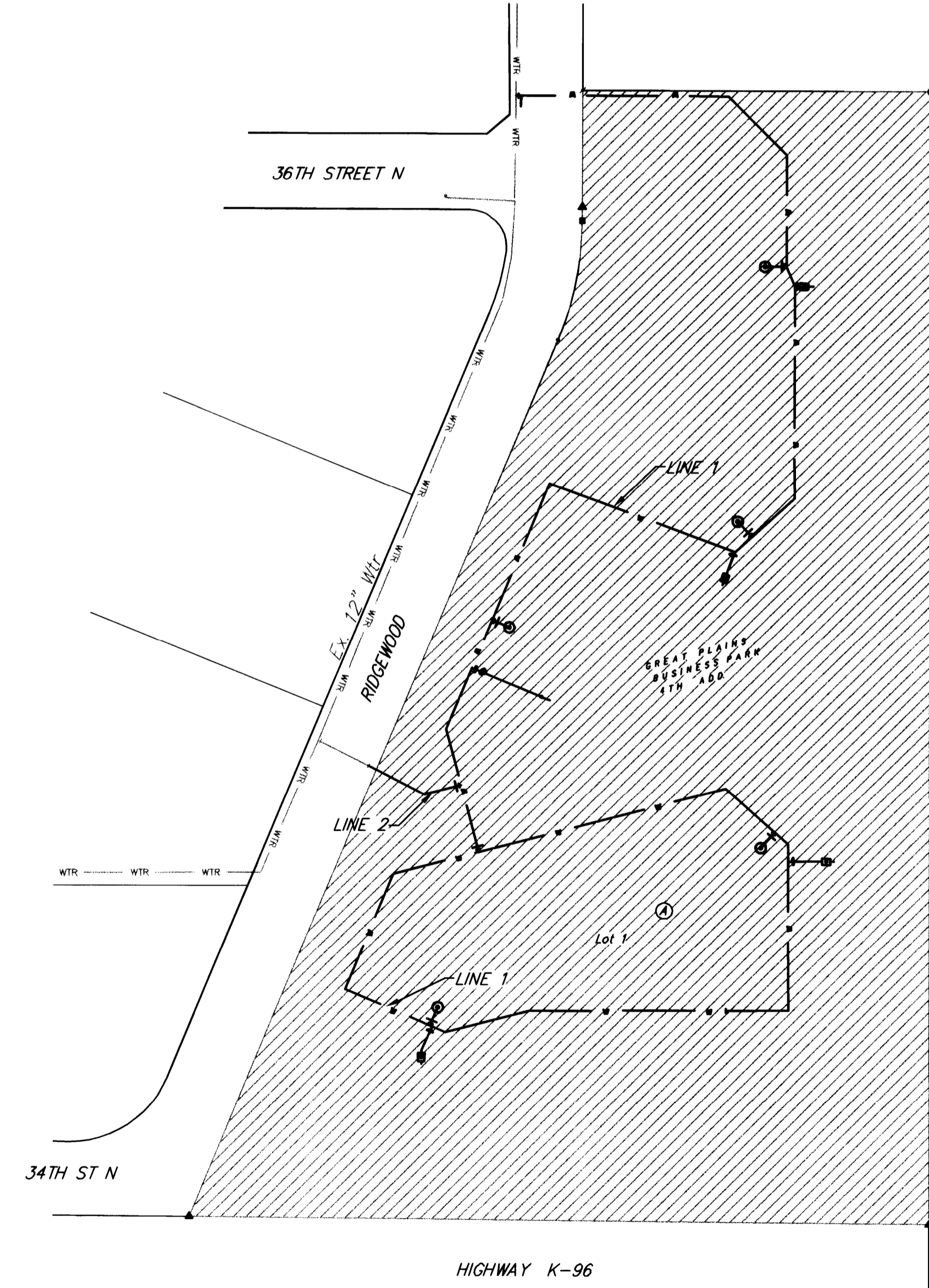
CROSS CUT TOP OF CATCH BASIN WEST SIDE OF RIDGEWOOD 14'± NORTH OF THE SE COR. OF LOT 3, BLOCK 2, GREAT PLAINS BUSINESS PARK ADDITION.
 ELEV.=1368.03 (NAVD88)

Sheet Index

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Standard Vault Detail	4
Line 1	5-7
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As-built Plans

Contractor: Mies Construction
 Inspector: Eric Strecker, Schwab-Eaton, PA
 PDF by: ELS, 12/12/12

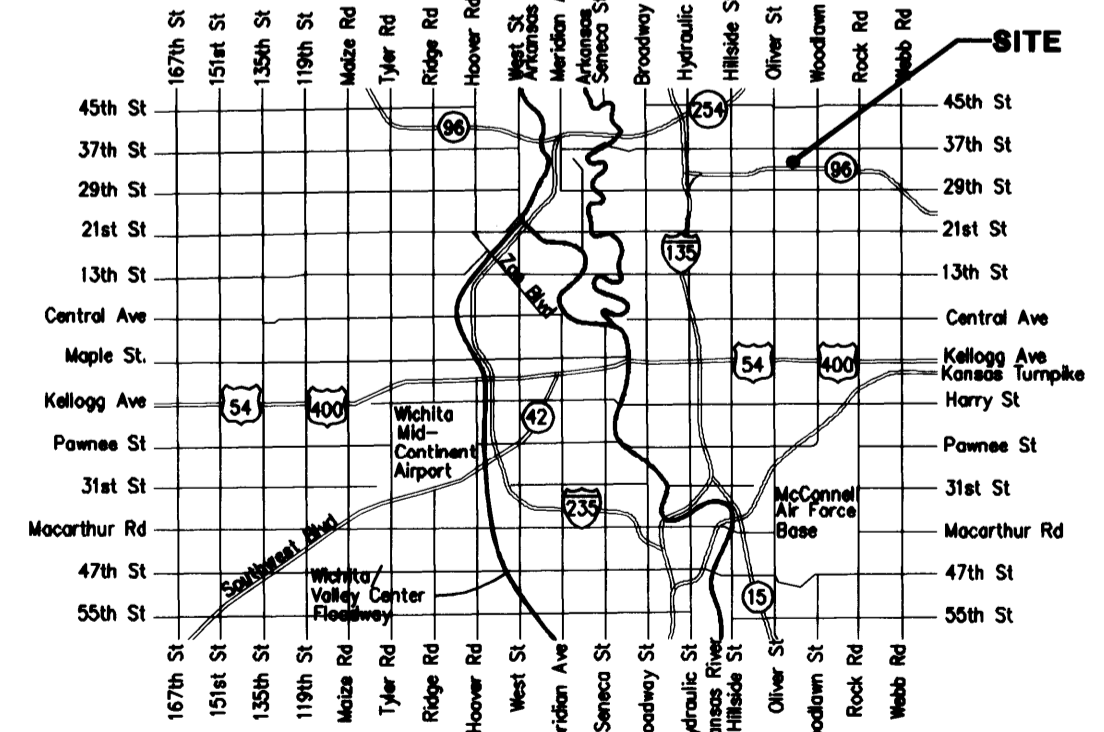
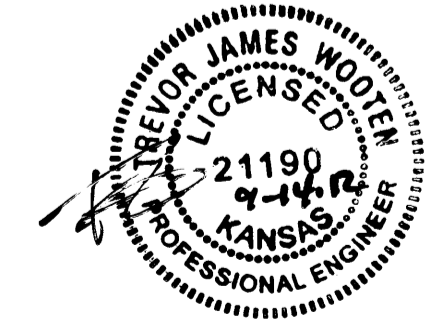


APPROVED AS NOTED
 BY CITY ENGINEER OF WICHITA,
 BY WICHITA WATER & SEWER DEPARTMENT,
 & BY WICHITA FIRE DEPARTMENT

Public Works *Aug 7, 2009 9-14-12*
 Water & Sewer *Aug 7, 2009 9-14-12*
 Fire *Aug 7, 2009 9-14-12*

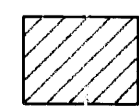
NOTE TO CONTRACTORS
 Public Property:
 Inspection and testing for the waterline is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by 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 City of Wichita licensed fire protection contractor in accordance with the fire codes as adopted by the City of Wichita. All material 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 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.

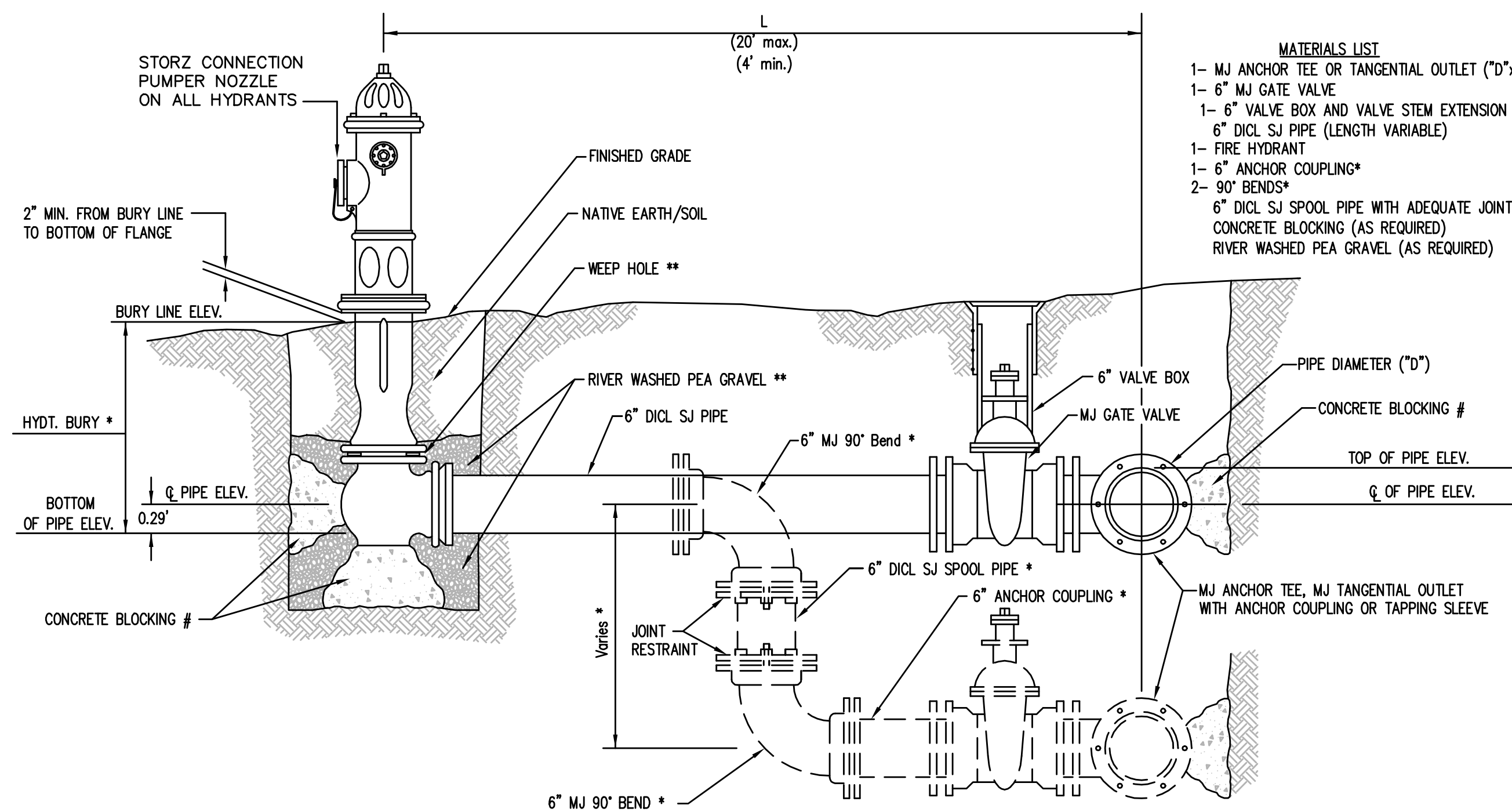


Vicinity Map

Benefit District



Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE



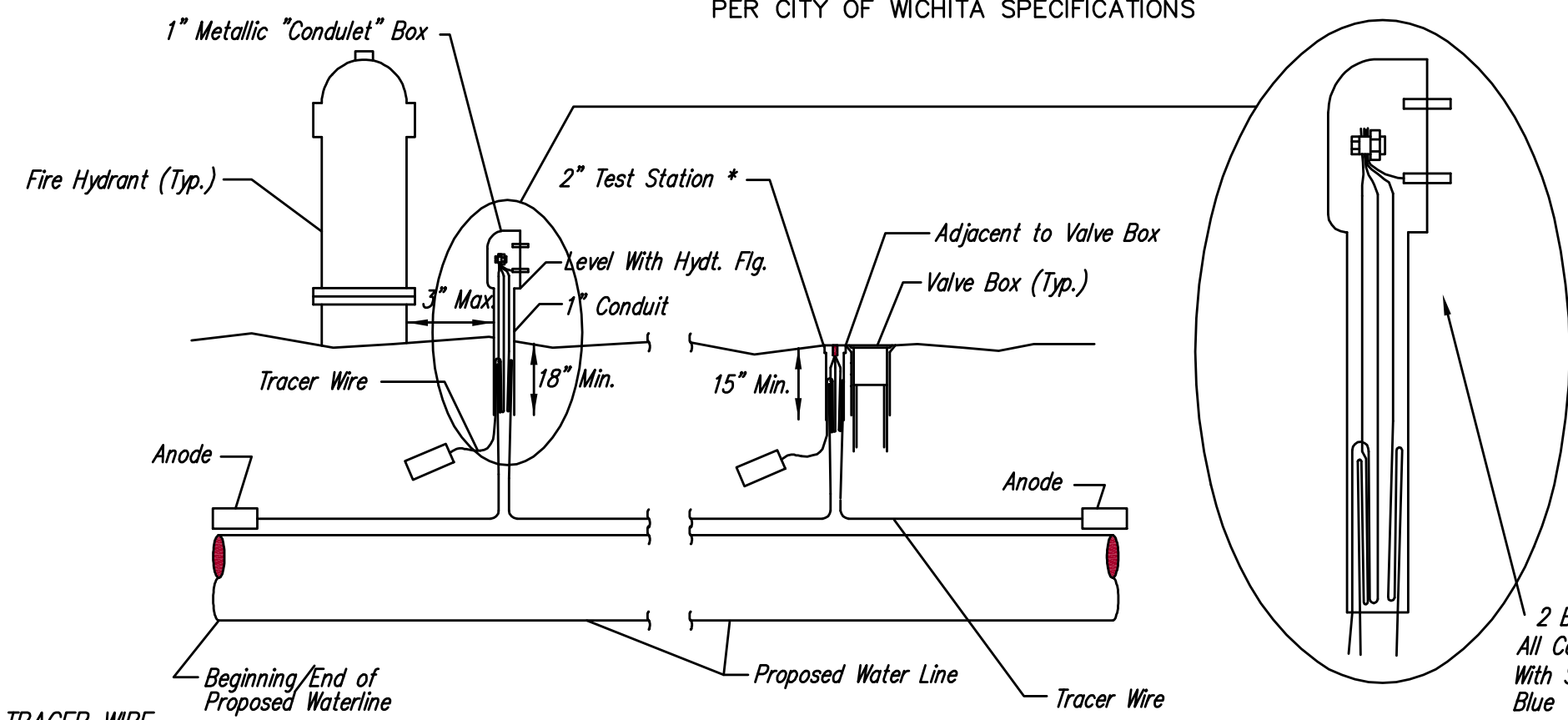
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (6" x 6")
 - 1- 6" MJ GATE VALVE
 - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6" DI CL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6" ANCHOR COUPLING*
 - 2- 90° BENDS*
 - 6" DI CL SJ SPOOL PIPE WITH ADEQUATE JOINT RESTRAINT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

* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DI CL SPOOL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS, ROD AND LUG OR SIMILAR RESTRAINT BETWEEN 90° BENDS TO SECURE ALL FITTINGS DURING TESTING AND OPERATION. THE CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS SHEET.

** CAUTION: WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AROUND EACH WEEP HOLE.

CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

FIRE HYDRANT ASSEMBLY
PER CITY OF WICHITA SPECIFICATIONS



TRACER WIRE
Conductive type pipe locator/tracer wire shall be installed to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. Split-bolt connectors shall be used at splice locations. Electrical tape shall cover all splices so no bare wire is exposed. Test stations shall be installed adjacent to all fire hydrants along the waterline and at blowoffs or valves near the ends of the waterlines. Any exceptions to the location of test stations shall be approved by the engineer. At each test station, the tracer wire shall be connected to a 3 lb. Zinc or magnesium anode. Anodes shall also be attached to the tracer wire at both the beginning and the end of the proposed waterline. A typical layout of the tracer wire and test station is provided in the above figure.

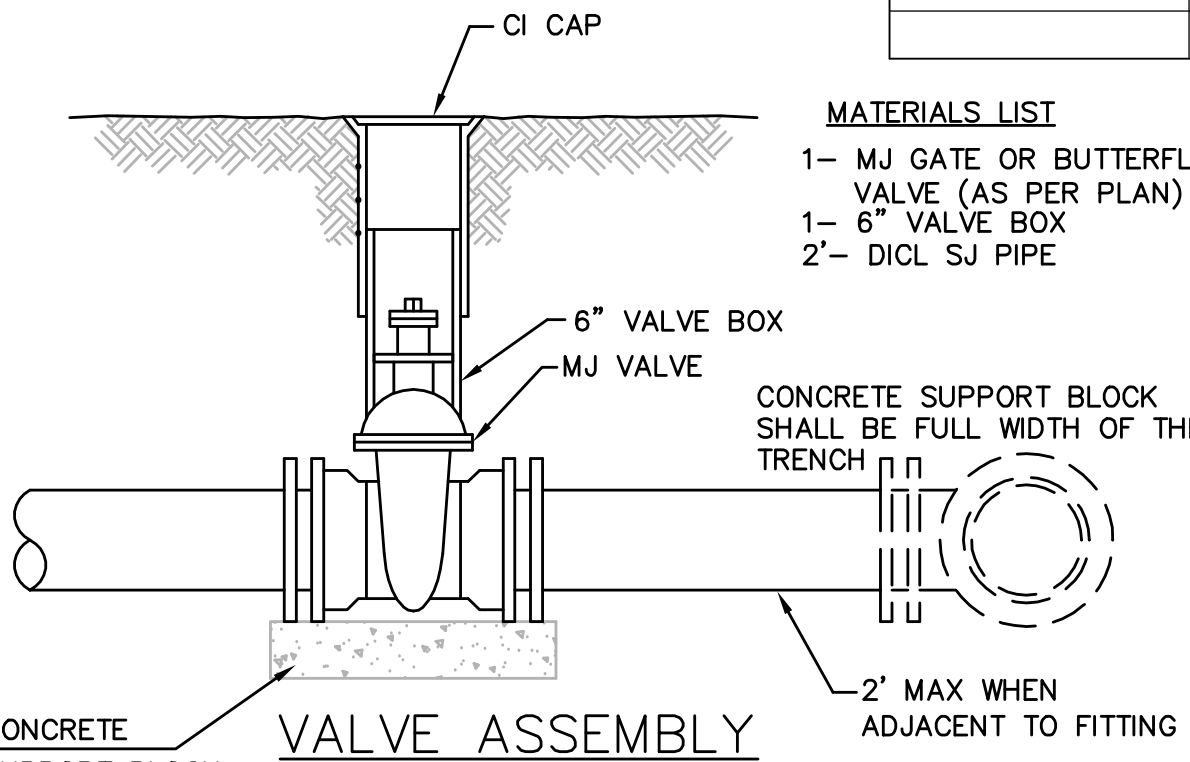
WIRE
The tracer wire shall be Blue No. 12 THHN annealed soft copper wire with thermal plastic insulation or Blue No. 12 AWG CCS with 30 mil HDPE insulation. The insulation shall be heat, oil, and gasoline resistant as manufactured by Temple Electric or approved equal. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. The insulation sheathing shall be removed such that 1" bare copper wire 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 T2PS3B 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 Black No. 12 THHN annealed soft copper wire which shall be extended to the test station.

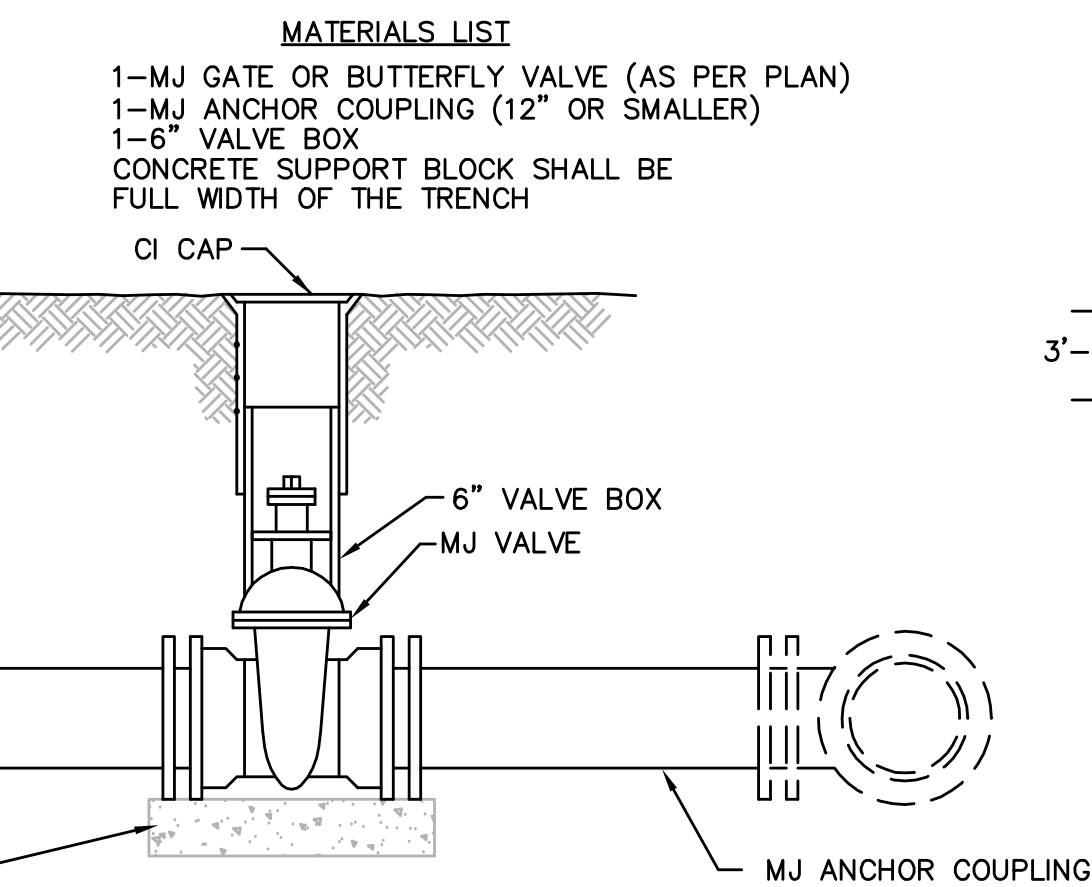
TRACER WIRE DETAIL
COST IS SUBSIDIARY TO PIPE INSTALLATION

FIRE HYDRANTS REQUIRED				
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
3+85.05	1371.30	1365.45	6.5'	-
6+63.41	1369.30	1362.95	7.0'	-
10+14.87	1367.60	1361.25	7.0'	-
15+54.70	1367.65	1363.30	5.0'	-
20+74.73	1369.85	1365.00	5.5'	-



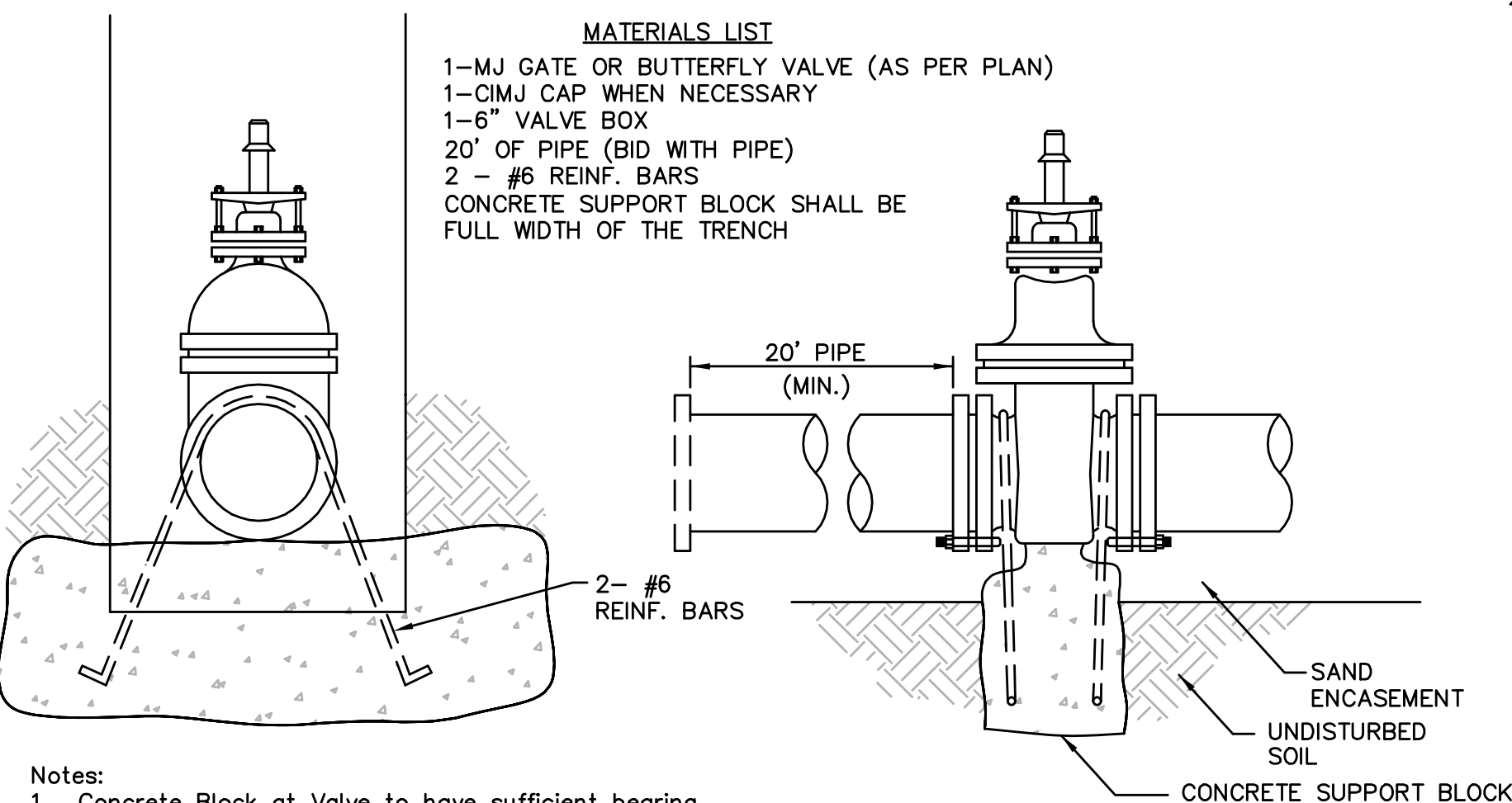
- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1- 6" VALVE BOX
 - 2- DI CL SJ PIPE

CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



- 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

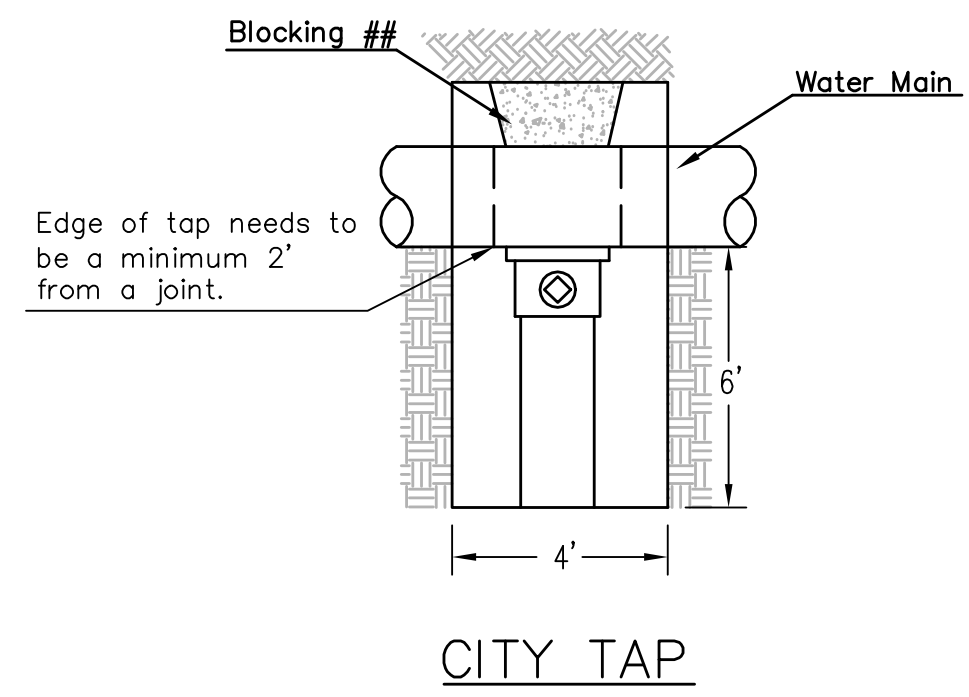
ANCHORED VALVE ASSEMBLY



- Notes:**
1. Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
 2. The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
 3. All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

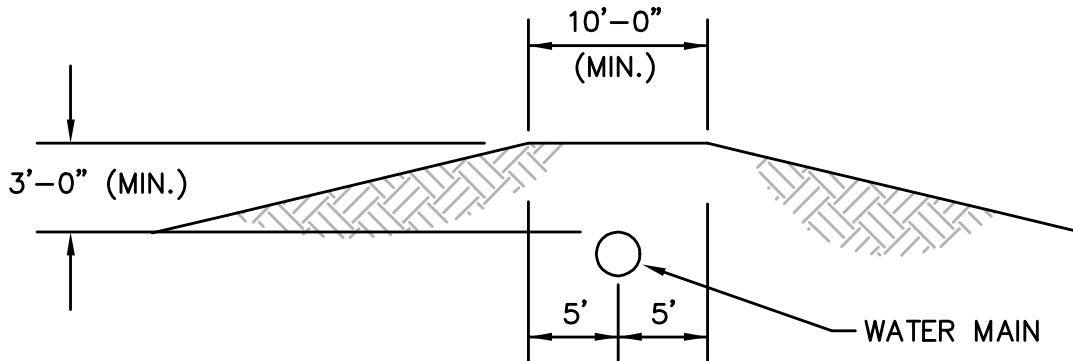
THRUST AT VALVES	
VALVE	THRUST AT 150 #/sq. ft.
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.

ANCHORED VALVE ASSEMBLY, SPECIAL



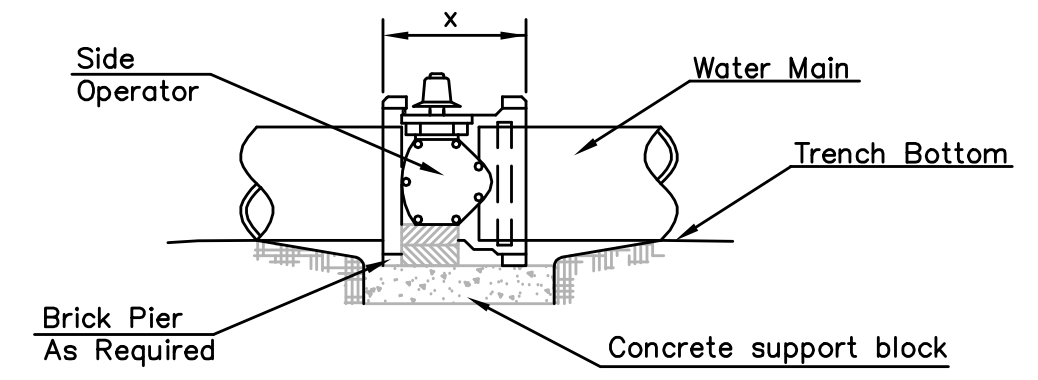
When the City of Wichita makes tap, blocking is to be done by Contractor

CITY TAP



PROTECTIVE FILL DETAIL

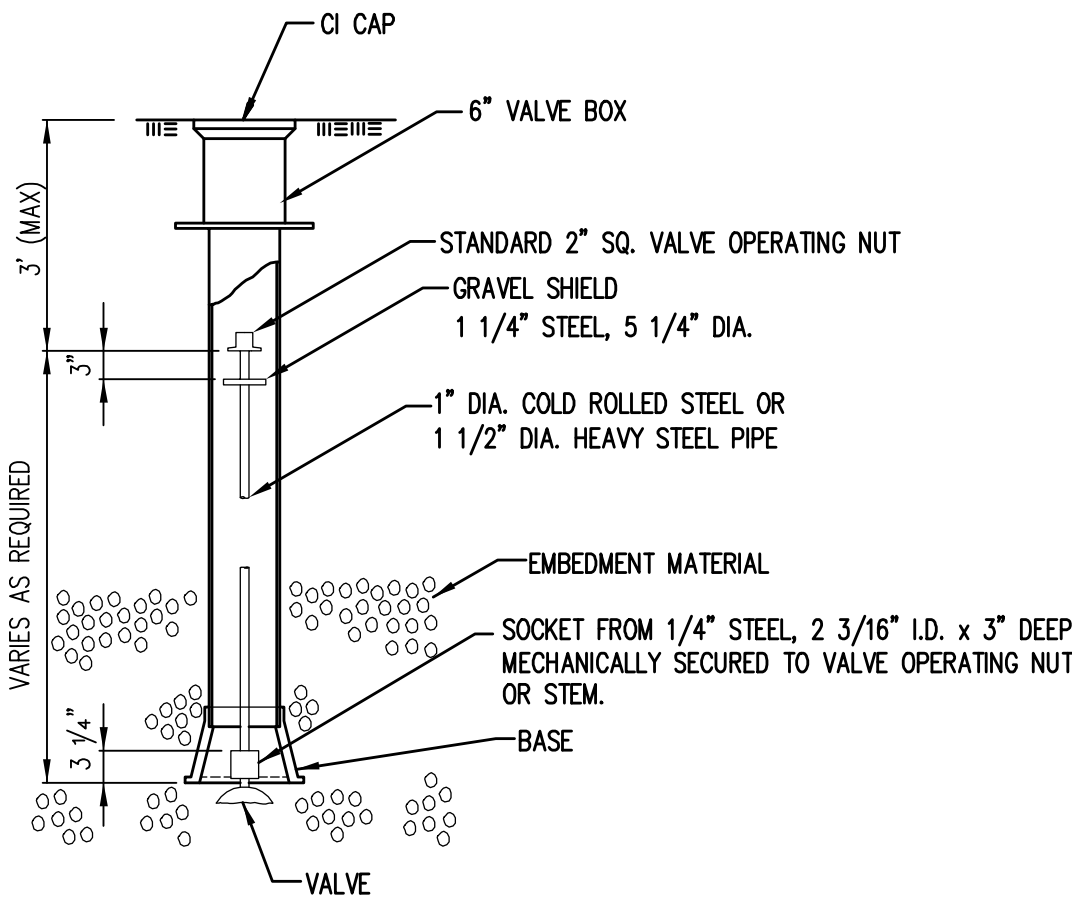
MINIMUM PROTECTIVE FILL SHALL BE PROVIDED IN ALL INSTANCES WHERE COVER OVER THE PROP. WATER LINE IS LESS THAN 3'. (COST SUBSIDIARY TO PIPE INSTALLATION)



NOTES

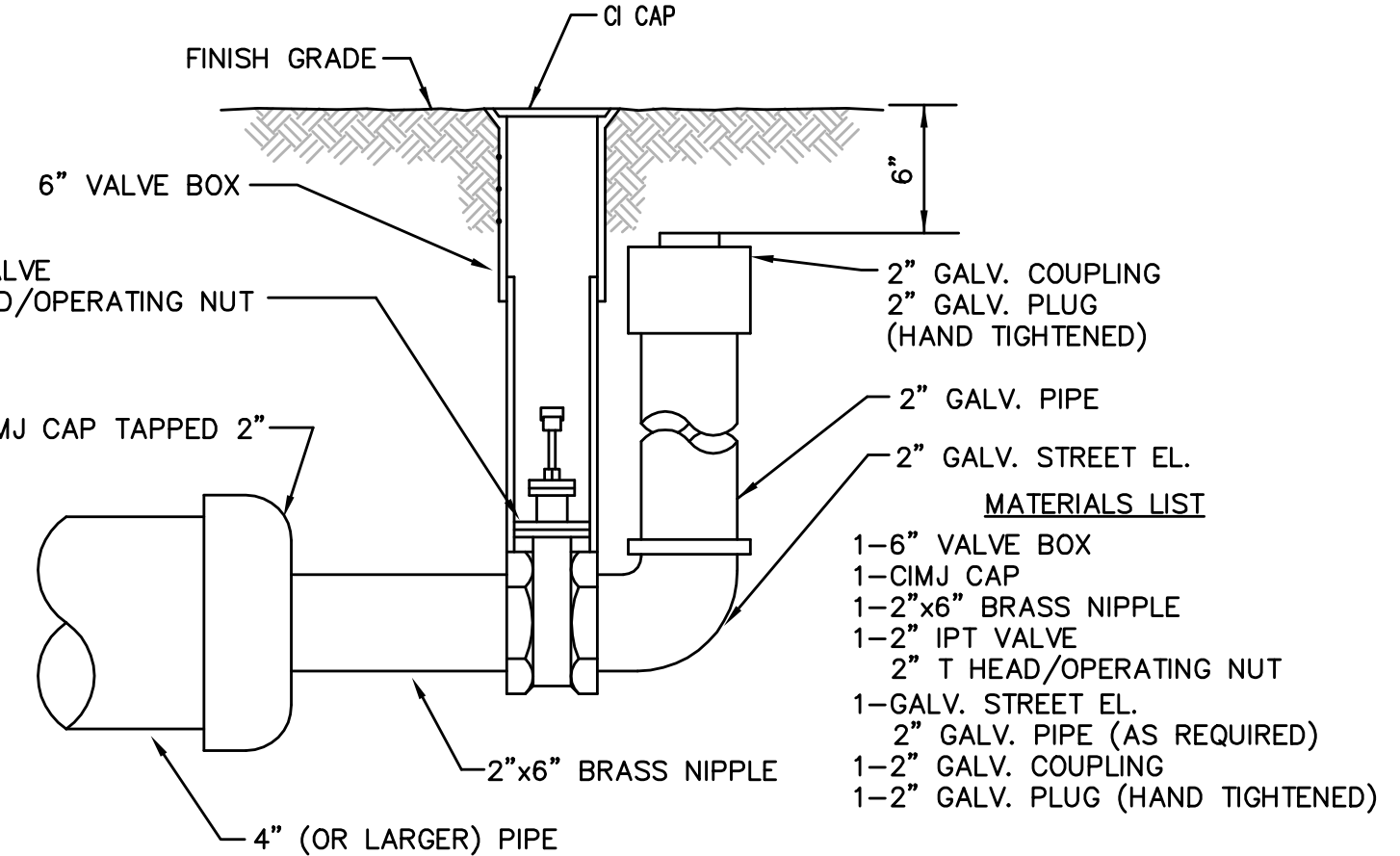
1. This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
2. 6" Valve Box and Cover required per City of Wichita Std. Specifications.
3. Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



VALVE STEM EXTENSION DETAIL

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



2" BLOWOFF ASSEMBLY

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

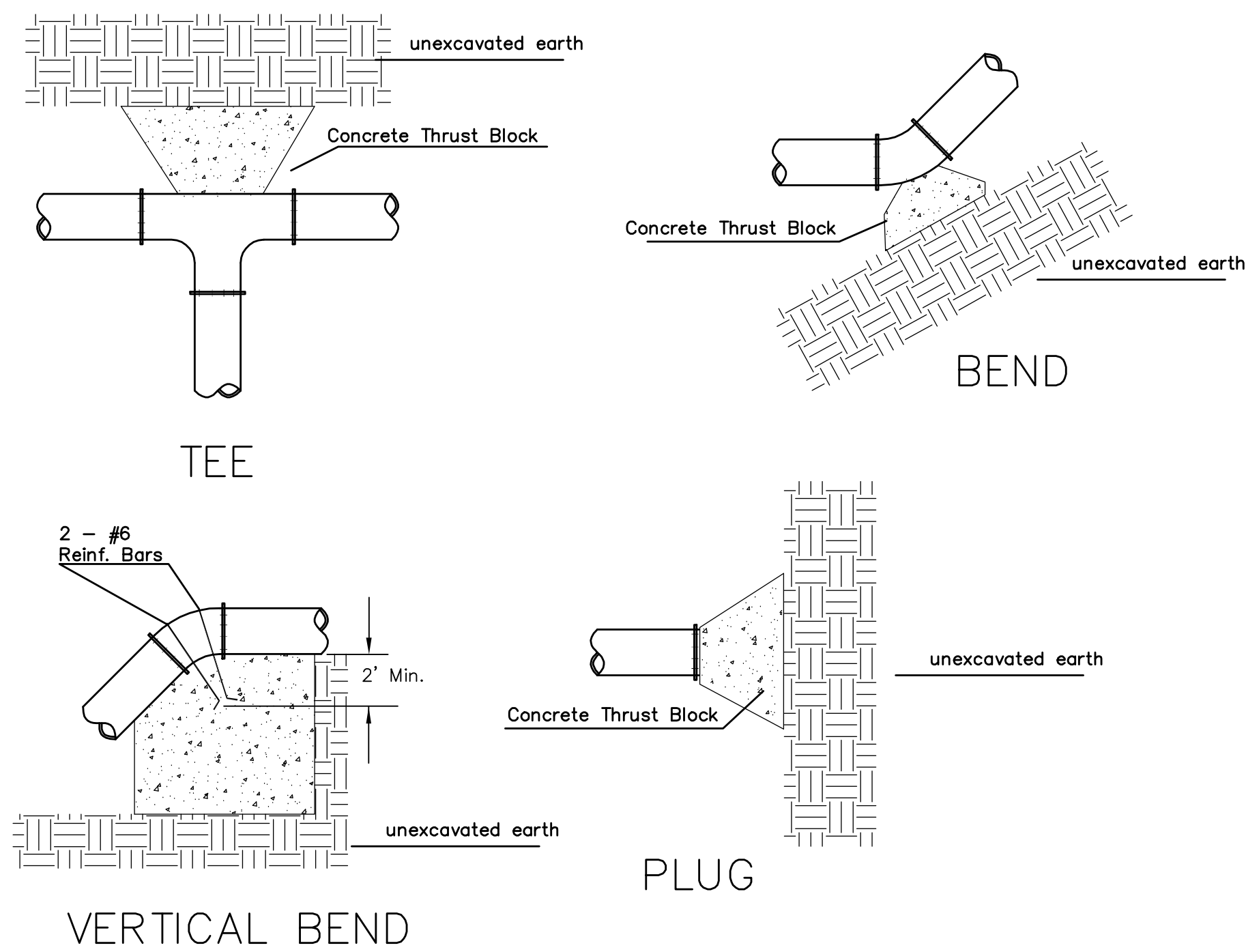
STANDARD WATER ASSEMBLY DETAIL

CITY ENGINEER
Gary Janzen, P.E. Interim City Engineer

PROJECT NUMBER 1683 PPW (607853)	OCA NUMBER	DATE 09/12
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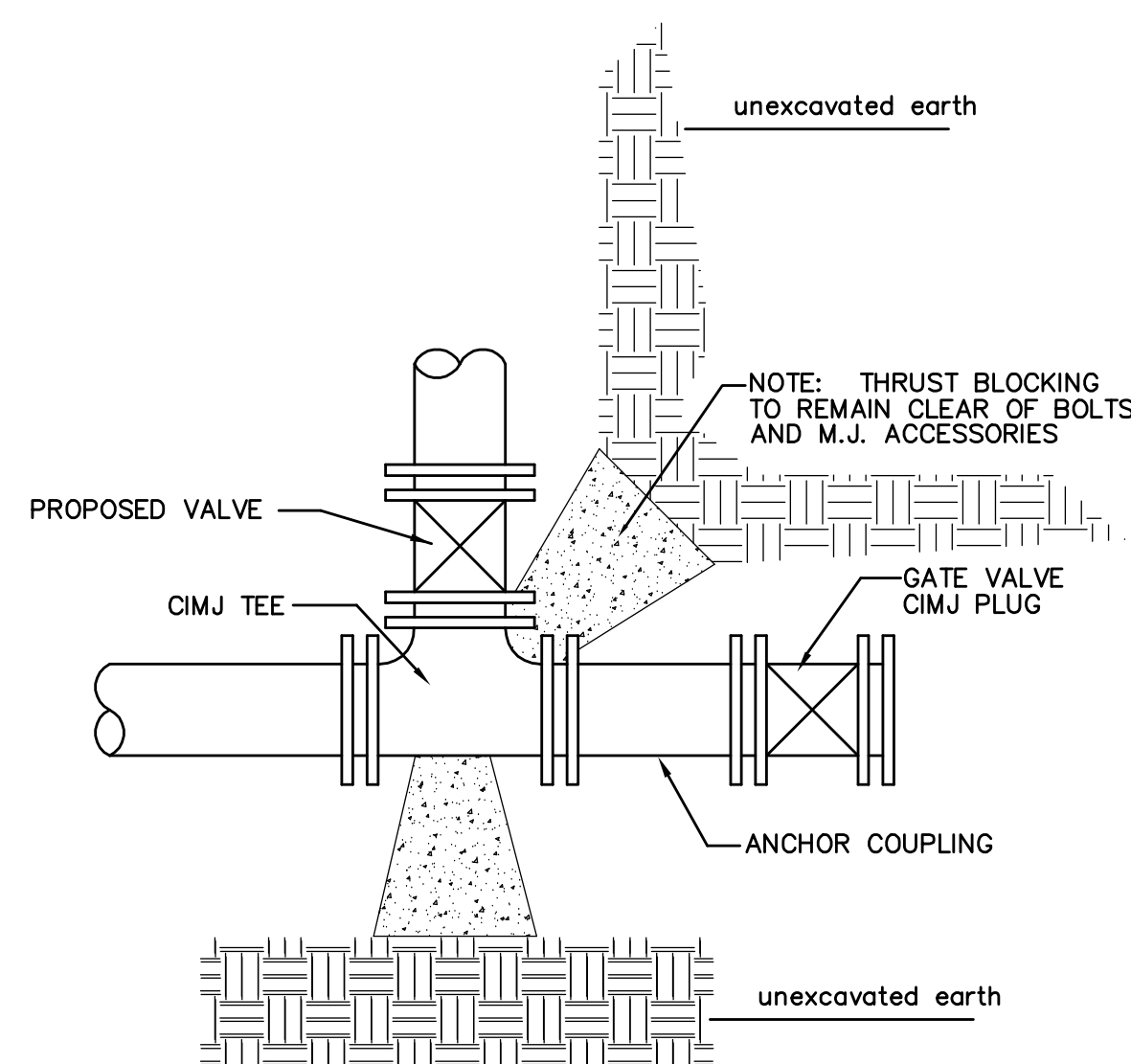
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

DESIGN	DRAWN
SHEET 2 of 10	

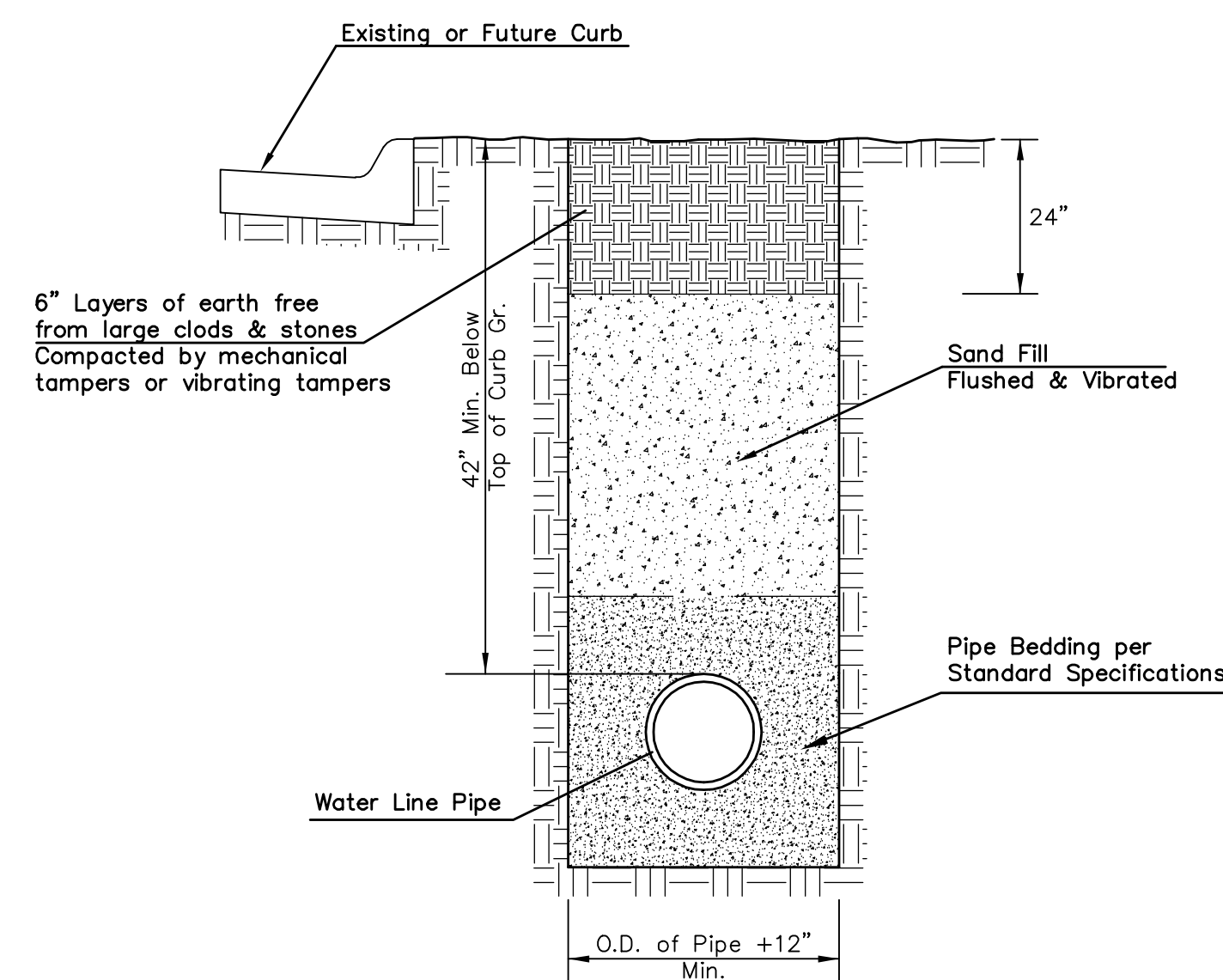


PIPE SIZE	THRUST AT FITTINGS IN TONS-AT 150#/IN ² P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

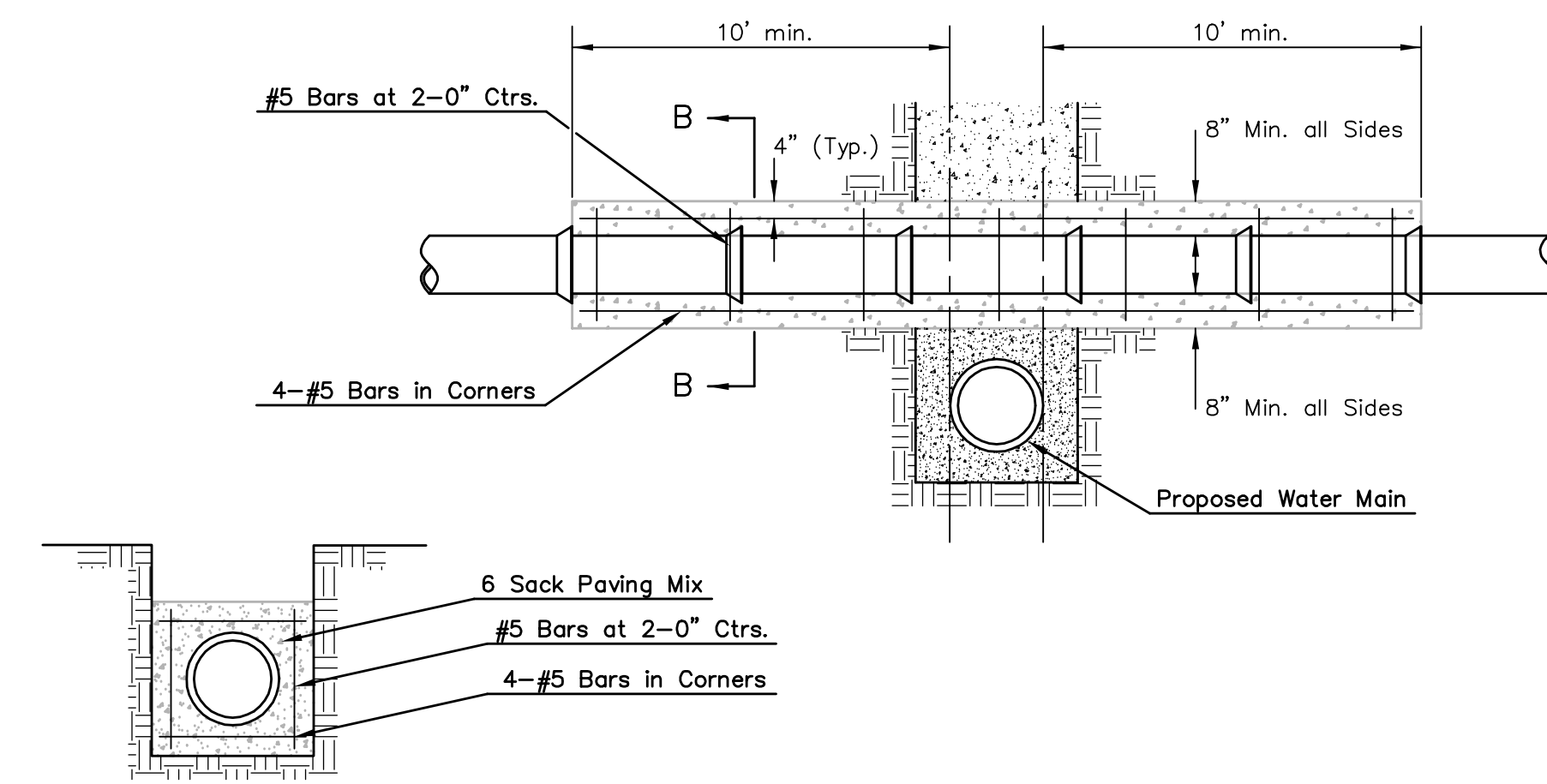
TYPICAL THRUST BLOCKS



KEY BLOCK DETAIL



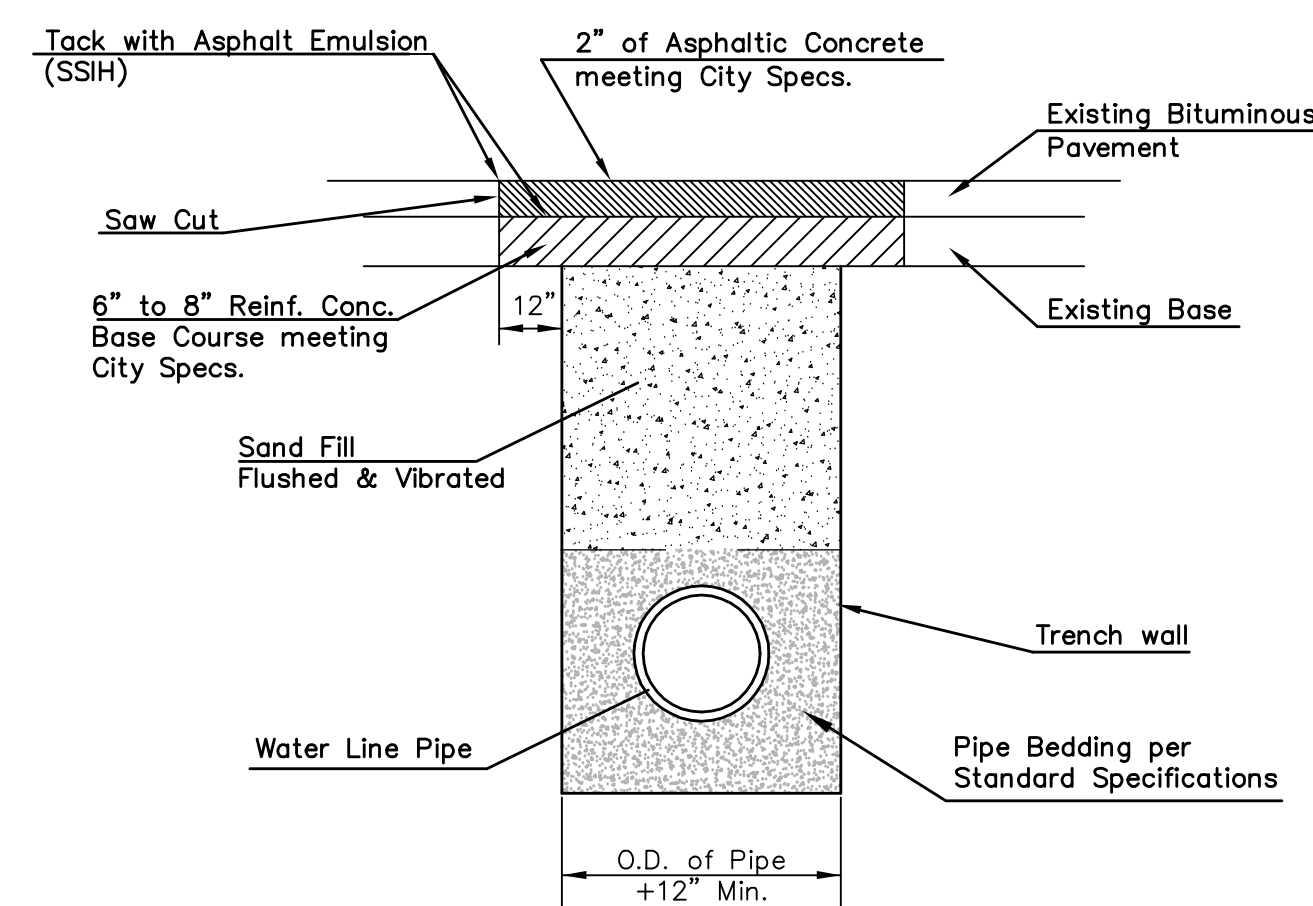
TRENCH COMPACTION IN ROAD RIGHT-OF-WAY



SECTION B-B

REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.



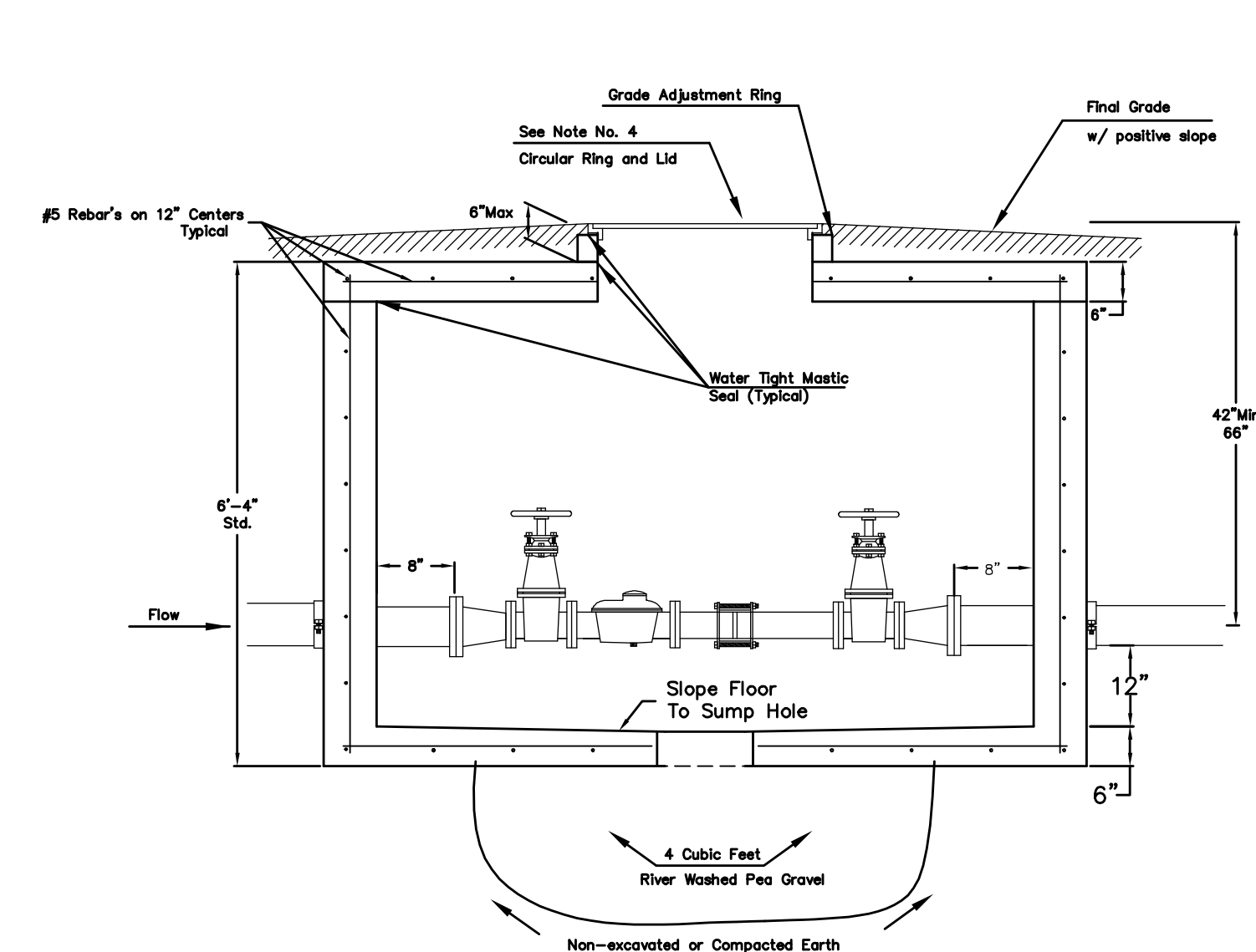
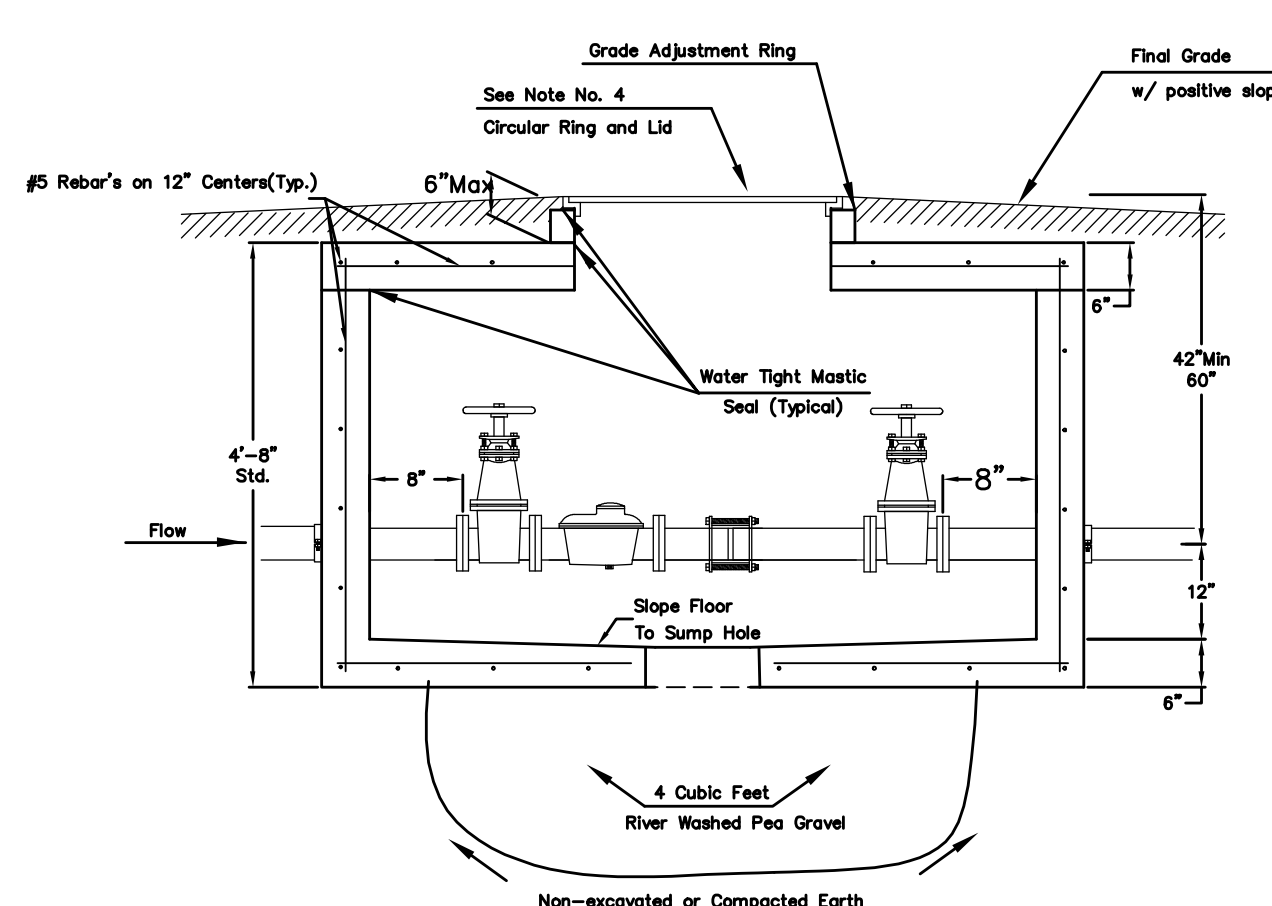
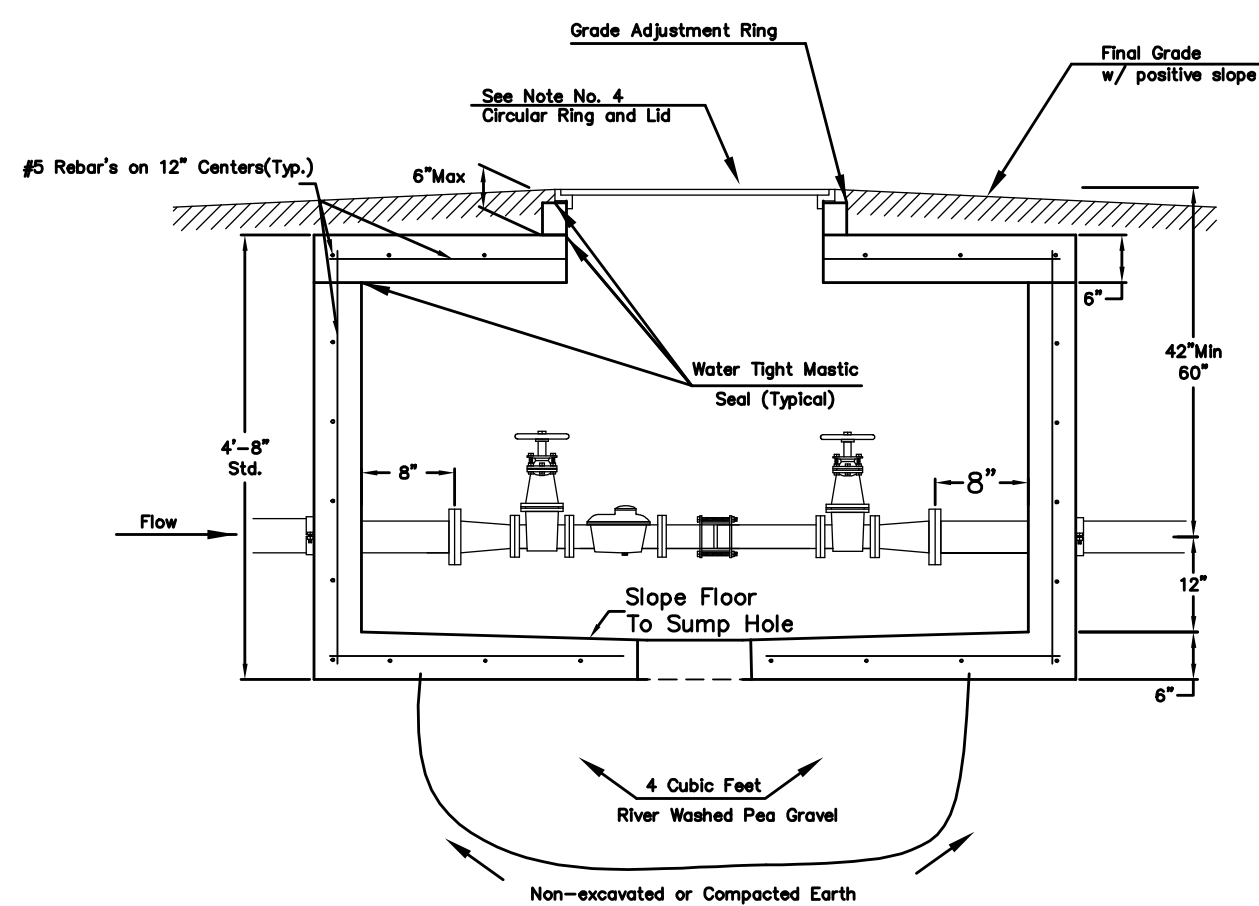
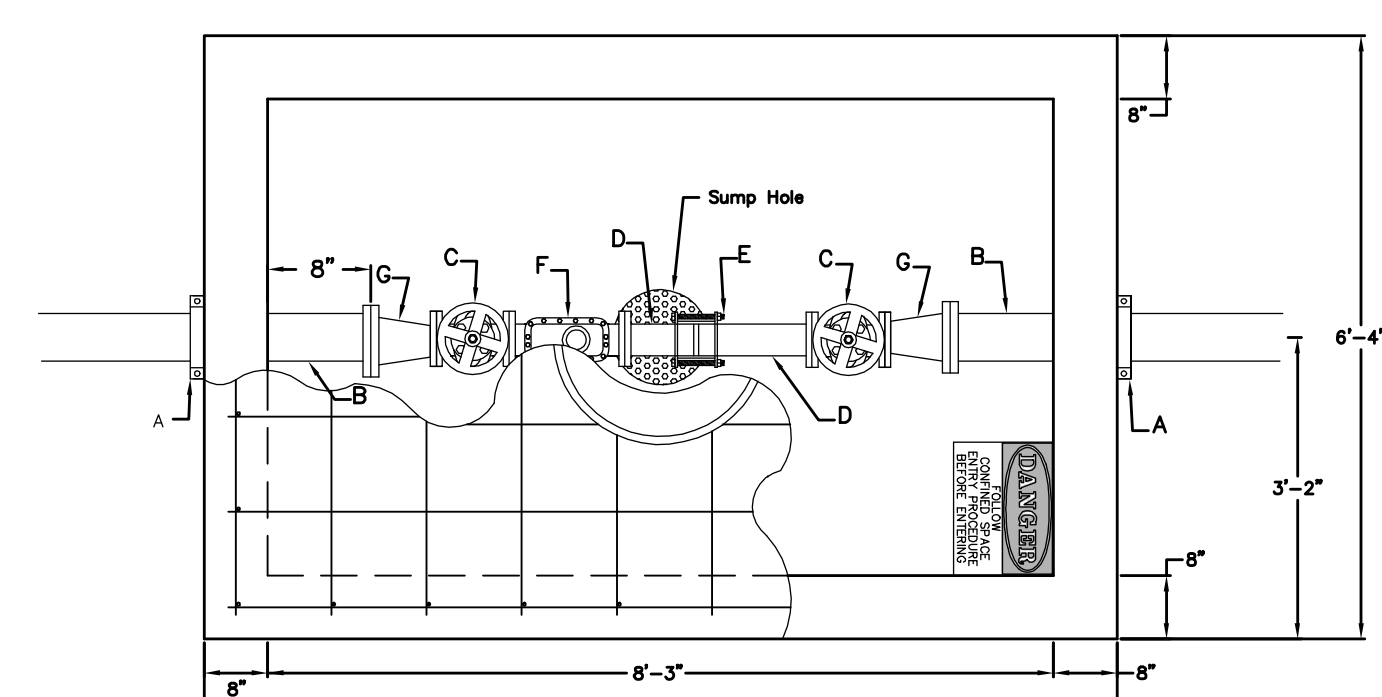
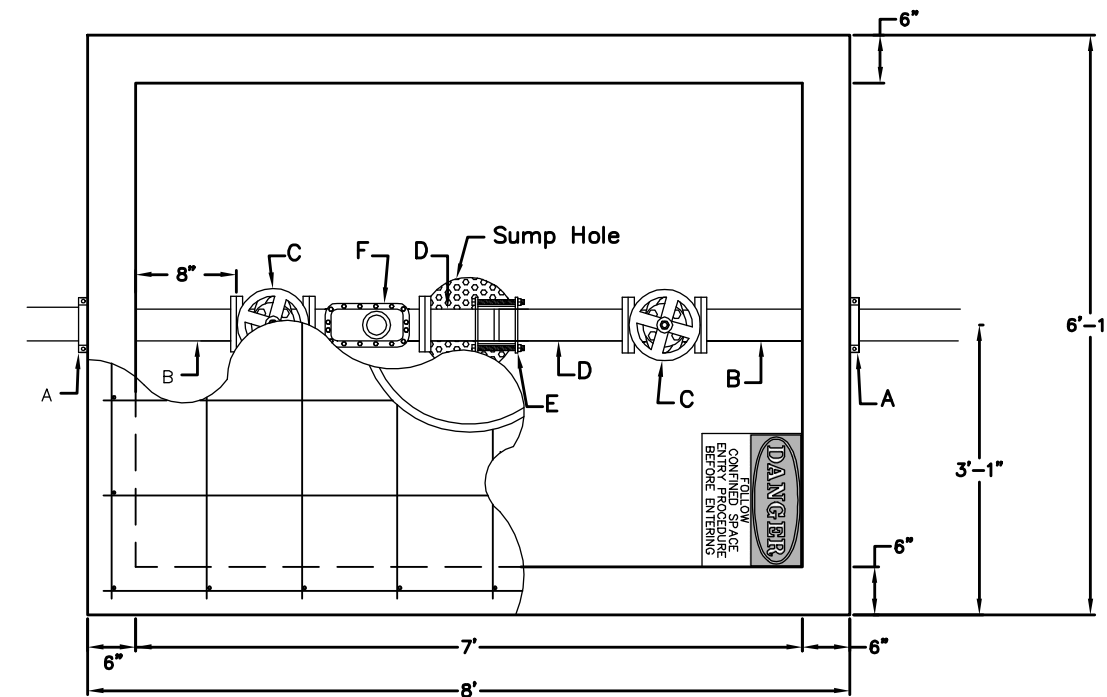
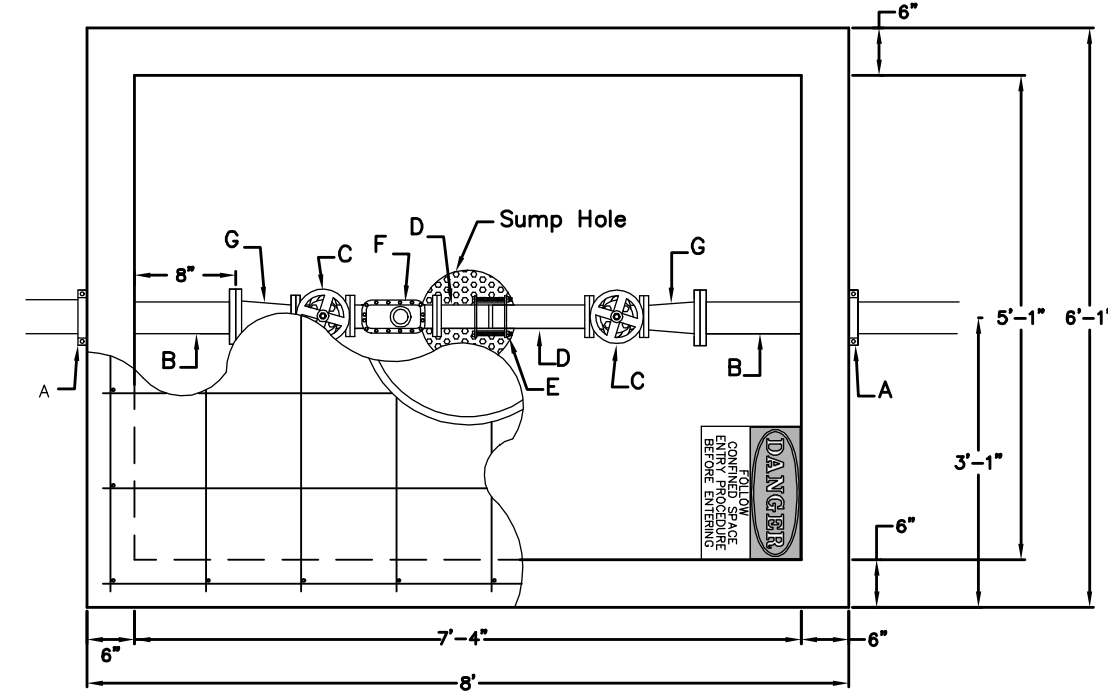
PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER EXISTING AND PROPOSED CITY ROADS

* UNLESS OTHERWISE NOTED ON PLANS

<p>CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION</p>	<p>MISCELLANEOUS WATER DETAILS</p> <p>CITY ENGINEER Gary Janzen, P.E. Interim City Engineer</p>		
	PROJECT NUMBER	OCA NUMBER	DATE
	1683 PPW (407853)		09/12
	<p>CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501</p>		
DESIGN		DRAWN	
SHEET		3 of 10	

Notes For All Services - 3" thru 12":

- When the standard vault dimensions are not applicable, such as when additional space is required for special pipe, fittings, additional meters, etc. the design engineer shall design a vault with the required dimensions for Public Works and Utilities approval.
- The vault shall be poured concrete, cement blocks (voids to be completely filled with 2500 P.S.I. concrete), or approved precast structure (such as Clutter Inc. vaults approved 8/1/2000). The intent of these details shall not be limited by drawings or standards of precast structures.
- Vault location to be determined by Public Works and Utilities prior to construction and approved by Department's field supervisor prior to installation. A final inspection will be required for acceptance. Vault location standards include but not limited to: not to be located where subjected to vehicular loads, not to be located in any right-of-way or utility easement, and must be located on the property being served.
- The manhole ring and lid shall be Neenah R-6034 Frame with Type "C" Solid Lid and Drop Down Handle or US Foundry APS-30x30 (Aluminum). Where applicable the standard 10" Public Works and Utilities pattern meter reading lid and ring shall be located directly above water meter register. All meter registers shall have an approved lid directly vertical above. All joints of concrete to concrete or metal to concrete in the construction of the vault shall have an approved water tight mastic joint seal.
- Any fittings or appurtenances required to achieve proper elevation of pipe through the vault shall be provided by the contractor and appropriately noted on as-builts submitted by the inspecting engineer. Such fittings shall be a minimum of 2' from the exterior wall of vault.
- For all domestic services larger than 3" the contractor shall provide an outlet flange connection as shown 8" from the inside wall. Inlet and outlet wall sleeves shall be provided and installed by the contractor and shall be in alignment with one another. The inlet and outlet pipe shall be ductile iron pipe, cement lined, Class 150 per Standard Specifications and shall be continuous through vault wall and joint no less than 2' from the exterior wall of vault. Flanges of inlet and outlet pipes shall be in proper alignment and bolt pattern shall be rotated in such a way that valves and other fittings shall be in their proper vertical alignment when installed.
- For all services 4" and larger the contractor shall install a mega lug, restrained joint, or approved equal on the exterior walls of the vault, which shall be manufactured of ductile iron conforming to ASTM A 536-80, heat treated to a minimum hardness of 370 BHN and have a working pressure of at least 250 P.S.I. For all services smaller than 4" the contractor shall install an approved vault clamp on the exterior walls of the vault.
- All valves, meters, assemblies, and fittings shall be provided with sufficient concrete or other approved supports to the vault floor.
- The "Confined Space Warning" sign shall be fastened to the top of all vaults. If necessary for landscaping or site considerations, the sign may be fastened to the vault lid if it does not impede access to the handle. Acceptable materials: Aluminum 73415HH, Plastic 73439HH, or S.A. Vinyl 73463HH.
- All meters shall have an electronic read register compatible with the current City of Wichita meter reading system. All detector meters shall be an 5/8 cubic foot Badger meter with ERT register or approved equal. Gallon meters shall not be accepted.
- Additional Notes For Fire Services:**
 - A post indicator valve (PIV) is an option for the outlet valve and may be requested by the architect or owner. The PIV is not required by City of Wichita ordinance.
 - When Siamese connections are required by the Wichita Fire Department, refer to the current City Code Section 15.
 - If due to any reason the completed vault retains ground or drainage water in excess of 4" in depth from the floor of the vault, the property owner shall be responsible for providing and installing an appropriate automatic sump pump or approved equal, as well as any other appurtenances required to make such system function as intended.
 - The property owner is responsible for completing an "Application for Private Fire Protection" prior to final acceptance of the project.



- A - 4" Vault Clamp
- B - Min. 3' Piece of 4" FL x PE DCL Pipe
- C - 3" Flange Non-rising Stem Gate Wheel Valve
- D - 3" FL x PE Pipe
- E - 3" Flex Coupling
- F - 3" Badger Recordall II Turbo Cubic Foot Meter with ERT Register or Sensus W-350DR Cubic Foot Meter with AMR Register.
- G - 3" x 4" FL Reducer

- A - 4" Vault Clamp
- B - Min. 3' Piece of 4" FL x PE DCL Pipe
- C - 4" Flange Non-rising Stem Gate Wheel Valve
- D - 4" FL x PE Pipe
- E - 4" Flex Coupling
- F - 4" Badger Recordall II Turbo Cubic Foot Meter with ERT Register or Sensus W-1000DR Cubic Foot Meter with AMR Register.

- A - 6" Mega Lug (See Note 7)
- B - Min. 3' Piece of 6" FL x PE DCL Pipe
- C - 4" Flange Non-rising Stem Gate Wheel Valve
- D - 4" FL x PE Pipe
- E - 4" Flex Coupling
- F - 4" Badger Recordall II Turbo Cubic Foot Meter with ERT Register or Sensus W-1000DR Cubic Foot Meter with AMR Register.
- G - 6" x 4" Flange Reducer

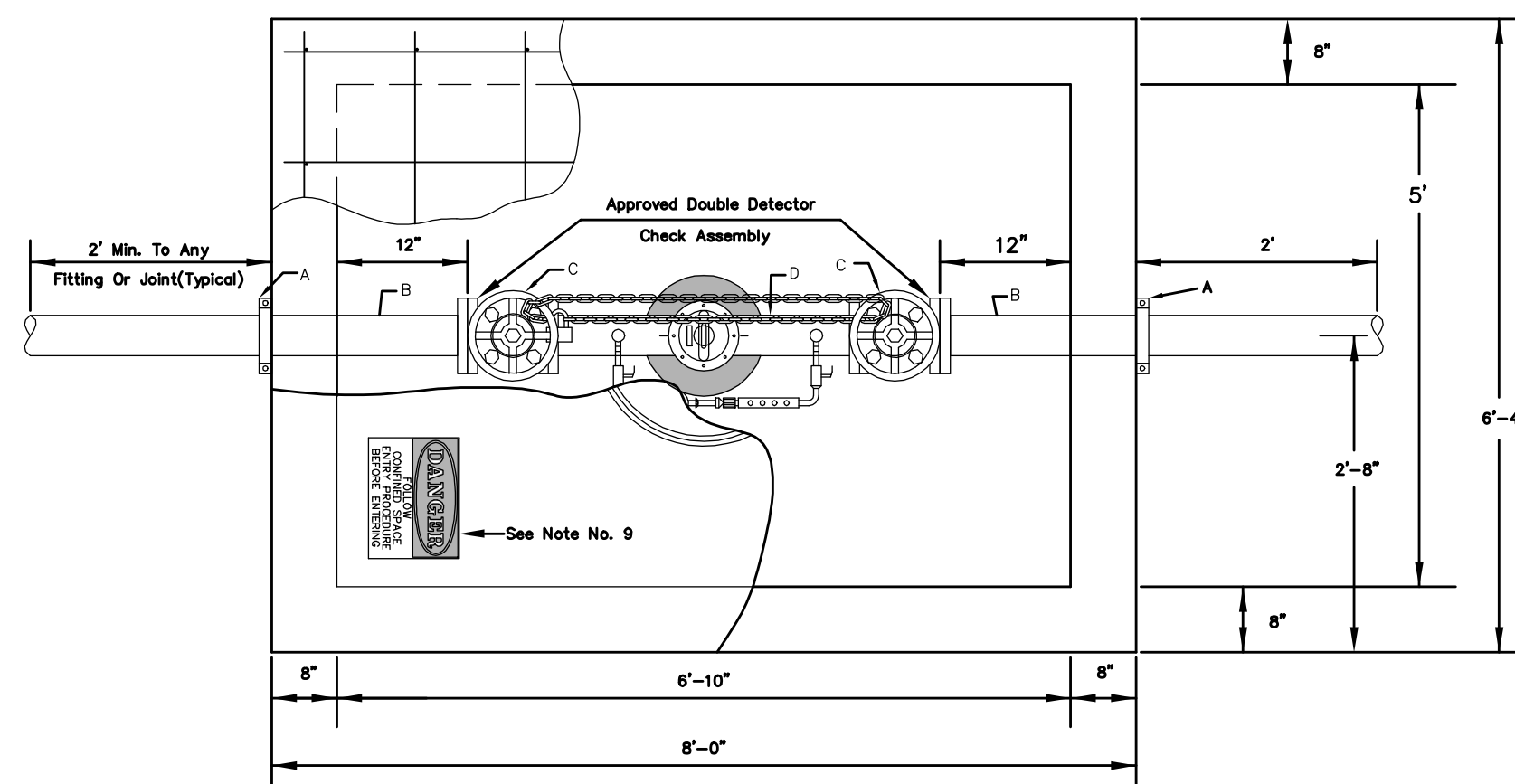
3" Domestic Service

4" Domestic Service

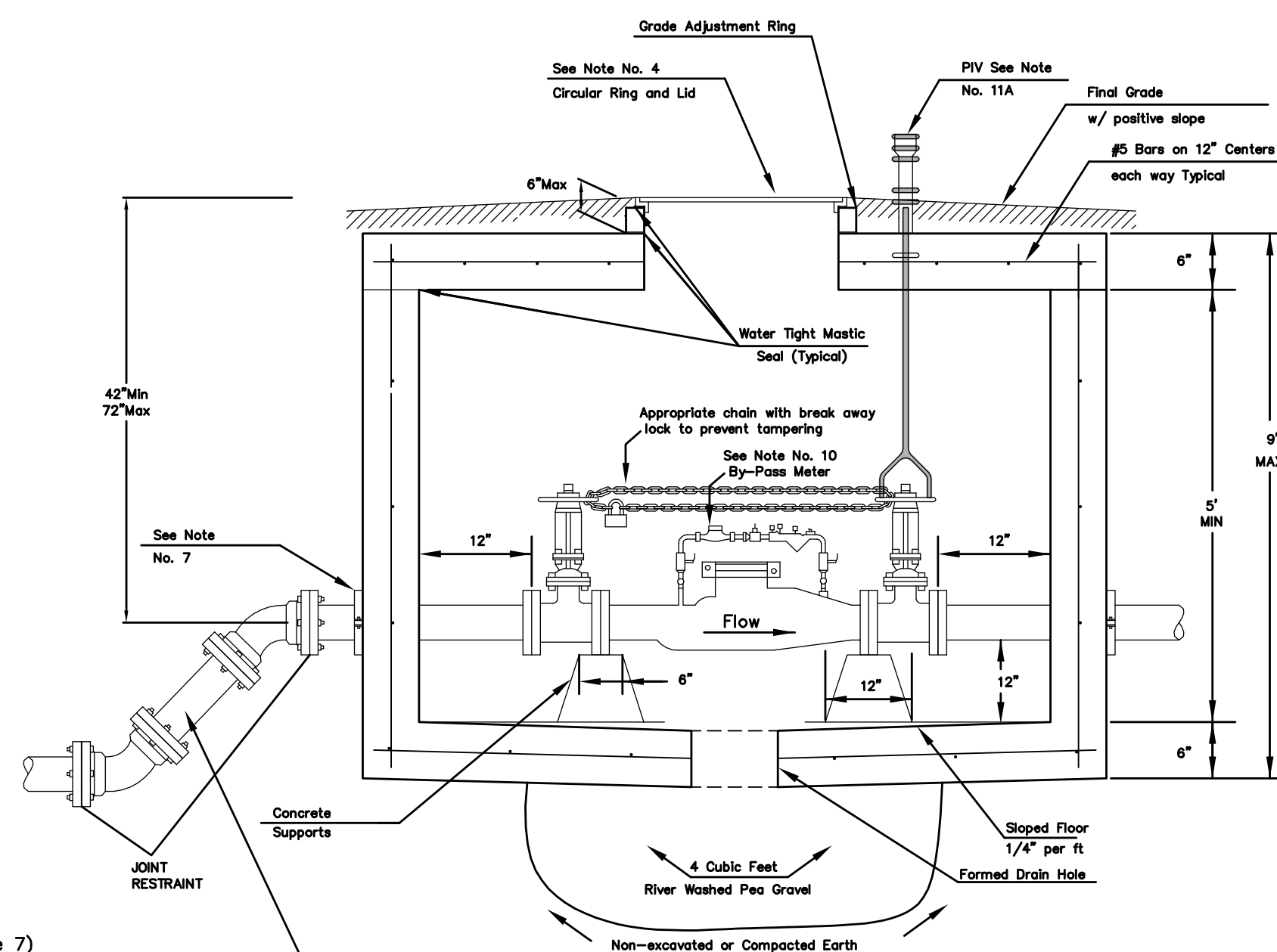
6" Domestic Service with 4" meter

NOTE:

INSPECTOR FROM PUBLIC WORKS AND UTILITIES TO BE CONTACTED 24 HOURS PRIOR TO INSTALLATION TO SET VAULT.
CONTACT: 316-219-8928 OR 316-219-8929



- A - Mega Lug (See Note 7)
- B - Min. 3'-8" Piece of FL x PE DCL Pipe
- C - Flange Gate Valve, Wheel Operated
- D - Ames Model 3001SS or approved equal with meters(cubic foot) by-pass assembly



Use 45 degree fittings as necessary to keep depth of vault within 76 inch maximum. All fittings should be mega lug, restrained joint or approved equal.

NOTE:

Domestic Services larger than 6" shall be custom designed by Engineer.

4" thru 8" Fire Service



STANDARD VAULT DETAILS AND METER ASSEMBLIES		
CITY ENGINEER Gary Janzen, P.E. Interim City Engineer		
PROJECT NUMBER 1683 PPW (607853)	OCA NUMBER	DATE 09/12
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		DESIGN DRAWN SHEET 4 of 10

BENCHMARK:
CROSS CUT TOP OF CATCH BASIN WEST SIDE
OF RIDGEWOOD 14'± NORTH OF THE SE COR.
OF LOT 3, BLOCK 2, GREAT PLAINS BUSINESS
PARK ADDITION.
ELEV.=1368.03 (NAVD88)

45 Deg. Bend at Sta. 2+01.08, Line 1
161' north & 38' west of Fire Hydrant at
Sta. 3+85.06, Line 1.

45 Deg. Bend at Sta. 2+79.26, Line 1
106' north & 20' east of Fire Hydrant at
Sta. 3+85.06, Line 1.

22.5 Deg. Bend/Valve at Sta. 3+85.06, Line 1, 1683 PPW
8.2' East & 27.5' North of Center of San. Sew. Manhole,
Line #3, Sta. 4+74.4, 2136 PPS

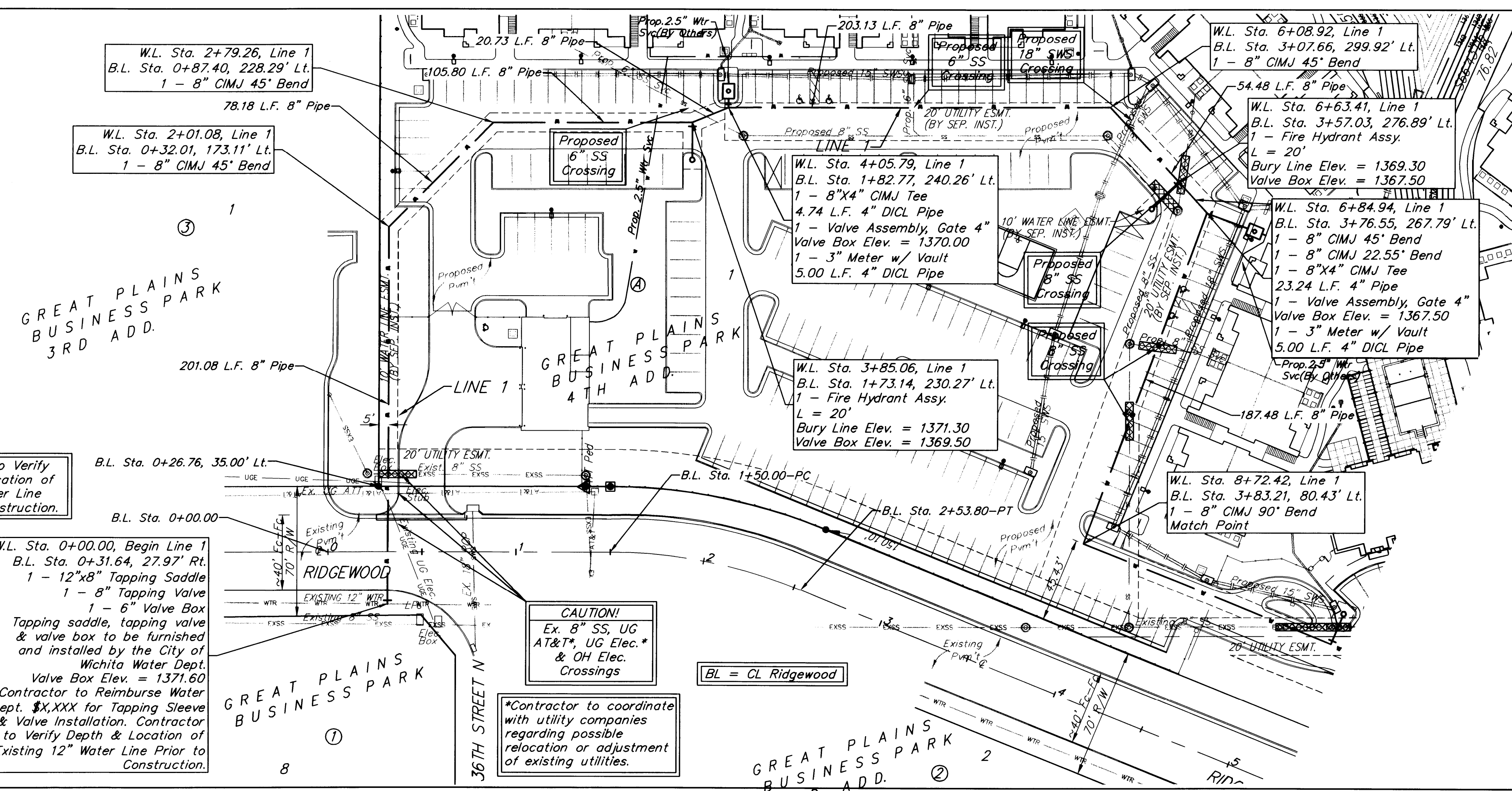
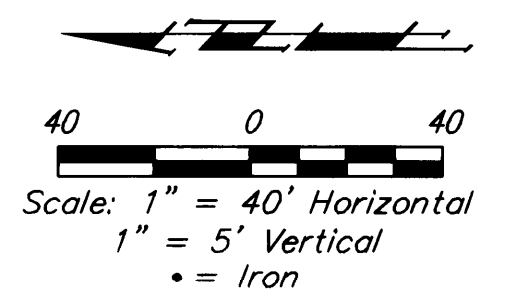
22.5 Deg. Bend/Valve Assembly at Sta. 4+05.79, Line #1,
1683 PPW
14.3' East & 7.9' North of Center of San. Sew. Manhole,
Line #3, Sta. 4+74.4, 2136 PPS

45 Deg. Bend at Sta. 6+08.92, Line #1, 1683 PPW
14.7' East & 1.5' South of Center of San. Sew. Manhole,
Line #3, Sta. 2+26.1, 2136 PPS

Valve Assembly at Sta. 6+63.41, Line #1, 1683 PPW
14.7' East & 0.9' South of Center of San. Sew. Manhole,
Line #3, Sta. 2+26.1, 2136 PPS

45 Deg. Bend/22.5 Deg. Bend/Valve Assembly at
Sta. 6+84.94, Line #1, 1683 PPW
15.0' South & 1.7' West of Center of San. Sew. Manhole,
Line #3, Sta. 2+26.1, 2136 PPS

90 Deg. Bend at Sta. 8+72.42, Line #1
142' north & 17.5' west of Fire Hydrant at
Sta. 10+14.87, Line 1.

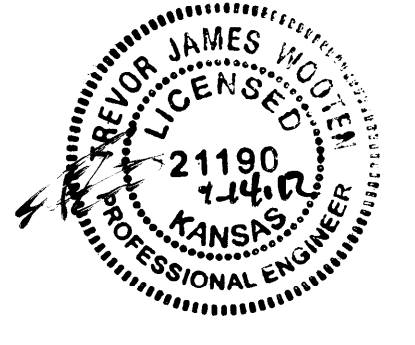
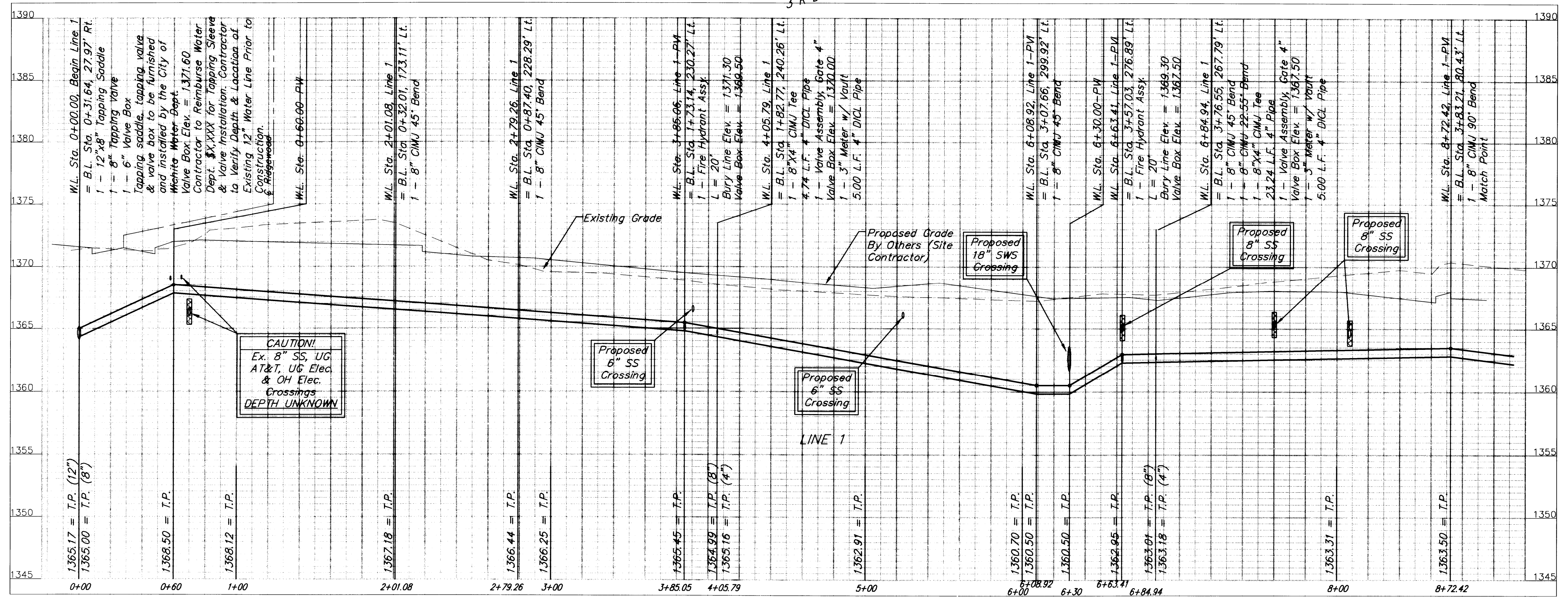


W.L. Sta. 0+00.00, Begin Line 1
B.L. Sta. 0+31.64, 27.97' Rt.
1 - 12"x8" Tapping Saddle
1 - 8" Tapping Valve
1 - 6" Valve Box
Tapping saddle, tapping valve
& valve box to be furnished
& installed by the City of
Wichita Water Dept.
Valve Box Elev. = 1371.60
Contractor to Reimburse Water
Dept. \$X,XXX for Tapping Sleeve
& Valve Installation. Contractor
to Verify Depth & Location of
Existing 12" Water Line Prior to
Construction.
Ridgewood

CAUTION!
Ex. 8" SS, UG
AT&T, UG Elec.
& OH Elec.
Crossings

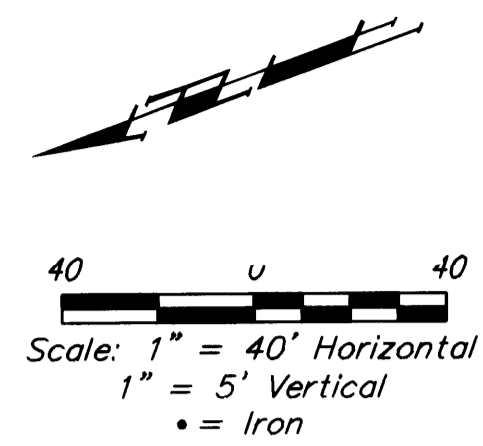
Contractor to coordinate
with utility companies
regarding possible
relocation or adjustment
of existing utilities.

Proposed sanitary sewer
to be encased with
concrete encasement
prior to construction
(separate project).



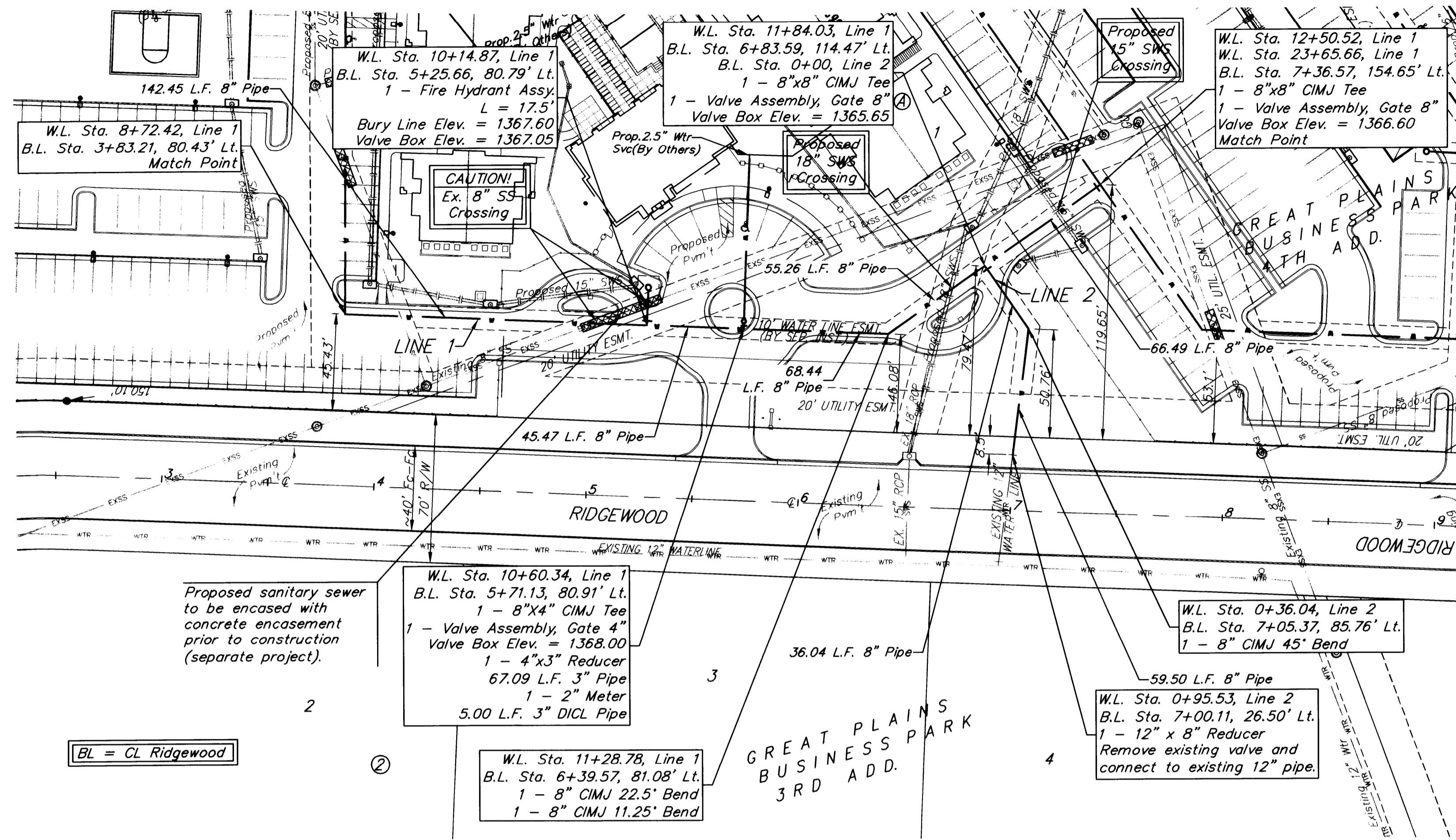
Baughman ENGINEERING SURVEYING PLANNING LANDSCAPE ARCHITECTURE		GREAT PLAINS BUSINESS PARK 4TH ADD.	
		LINE 1 WATER DISTRIBUTION SYSTEM	
PROJECT NUMBER 1683 PPW (607853)		DESIGN TJW	DRAWN TMS
REVISIONS:		APPROVED DATE 09/12	SCALE Noted
		5 OF 10	

BENCHMARK:
CROSS CUT TOP OF CATCH BASIN WEST SIDE
OF RIDGEWOOD 14'± NORTH OF THE SE COR.
OF LOT 3, BLOCK 2, GREAT PLAINS BUSINESS
PARK ADDITION.
ELEV.=1368.03 (NAVD88)



Tee/Valve Assembly at Sta. 10+14.87, Line #1
17.5' west of Fire Hydrant at Sta. 10+14.87, Line 1

Tee/Valve Assembly at Sta. 10+60.34, Line #1
45' south & 17.5' west of Fire Hydrant at Sta. 10+14.87, Line 1



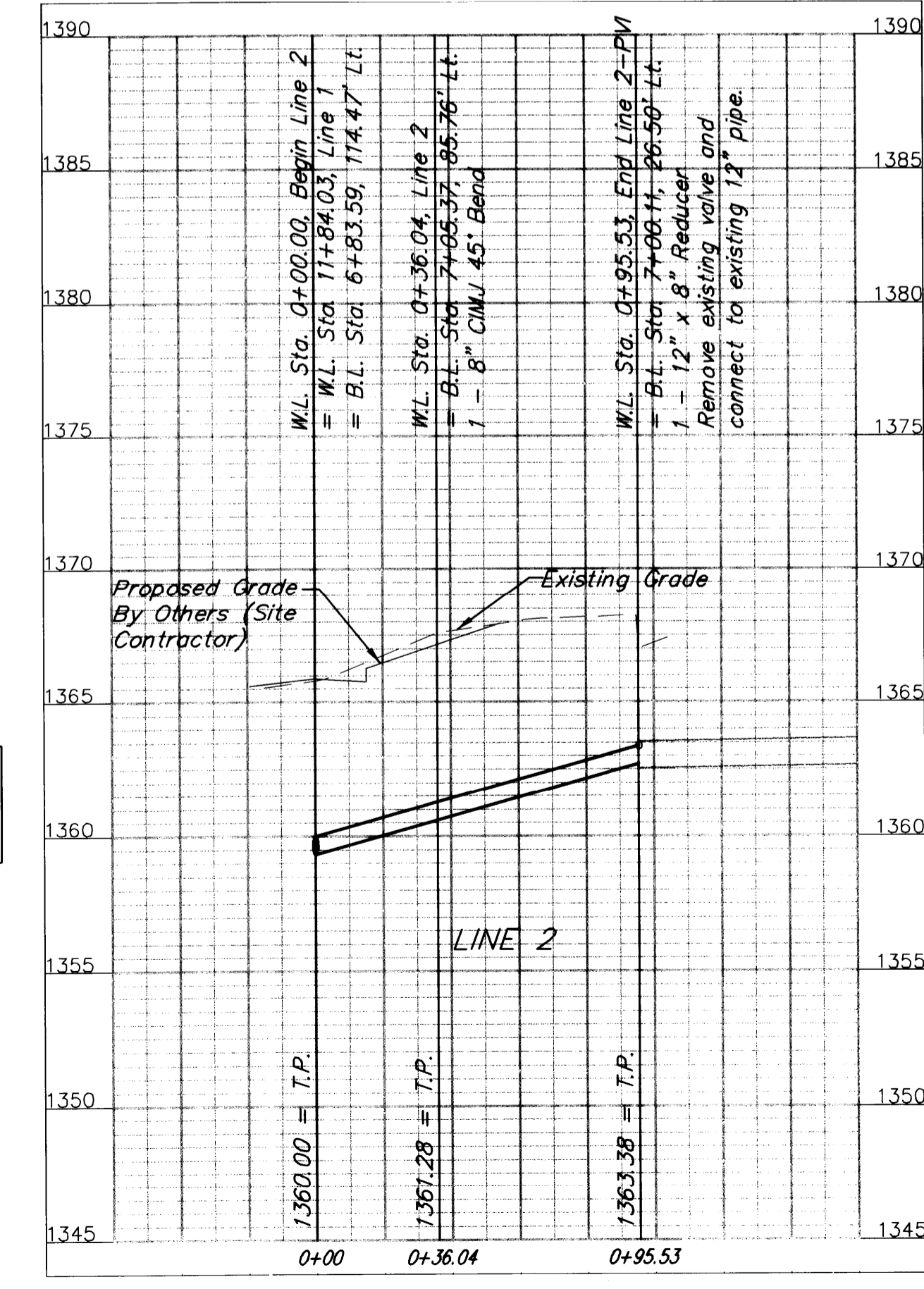
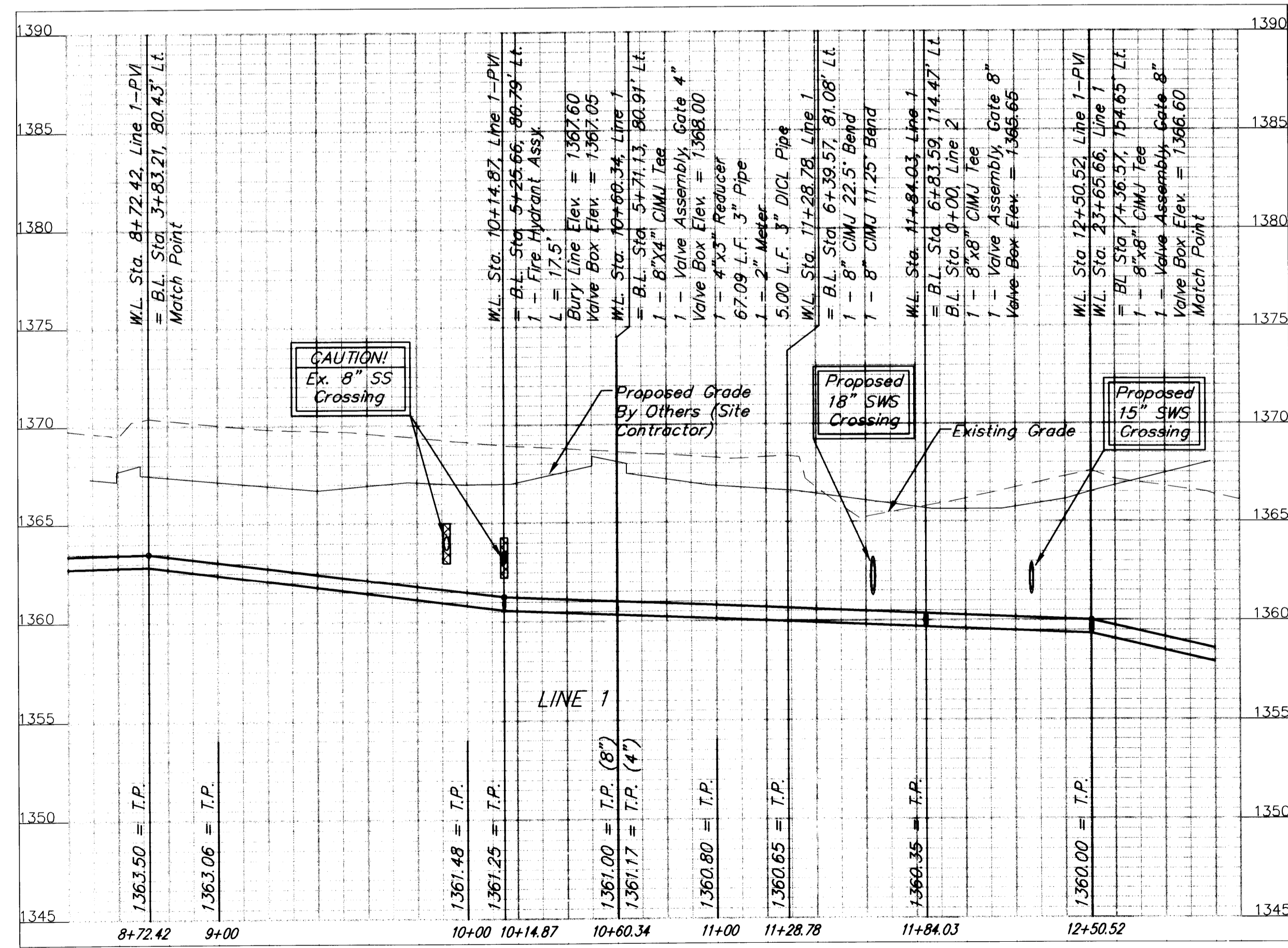
22.5 Deg. Bend/11.25 Deg. Bend at Sta. 11+28.78, Line #1
69' south & 17.5' west of Fire Hydrant at Sta. 10+14.87, Line 1.

Tee/Valve Assembly at Sta. 11+84.03, Line #1
160' south & 35' east of Fire Hydrant at Sta. 10+14.87, Line 1

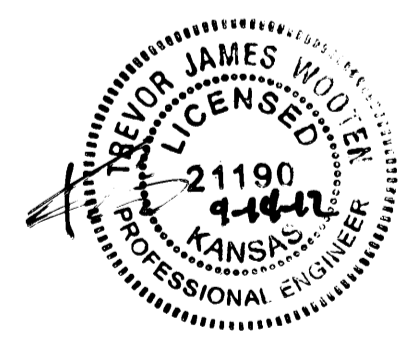
Tee/Valve Assembly at Sta. 12+50.52, Line #1
25' north & 30' west of SS MH #5851-013

45 Deg. Bend at Sta. 0+36.04, Line #2
180' south & 12.5' west of Fire Hydrant at Sta. 10+14.87, Line 1

BL = CL Ridgewood

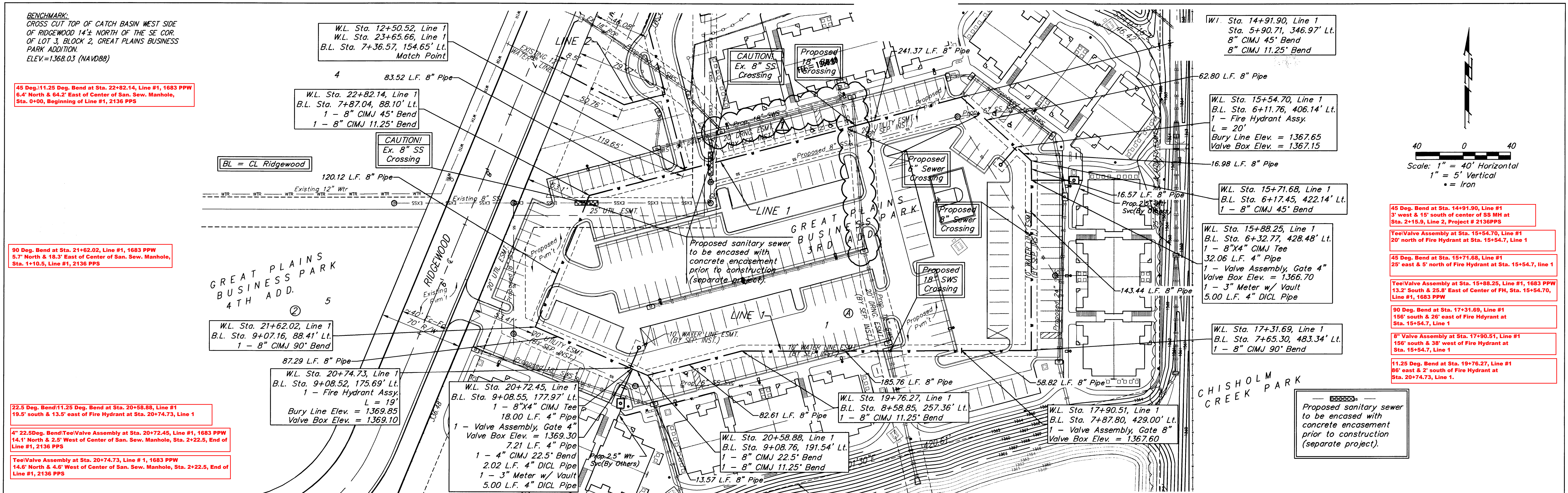


Contractor to Verify
Depth & Location of
Existing Water Line
Prior to Construction.



Baughman GREAT PLAINS BUSINESS PARK 4TH ADD.
LINES 1 & 2
WATER DISTRIBUTION SYSTEM

Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 F 316-2627271 F 316-2624149	
ENGINEERING SURVEYING PLANNING LANDSCAPE ARCHITECTURE	
PROJECT NUMBER 1683 FPW (607853)	DESIGN TJW
REVISIONS:	DRAWN TMS
	DATE 09/12
	SCALE Noted
	SHEET 6 OF 10



BENCHMARK:
CROSS CUT TOP OF CATCH BASIN WEST SIDE OF RIDGEWOOD 14th NORTH OF THE SE COR. OF LOT 3, BLOCK 2, GREAT PLAINS BUSINESS PARK ADDITION.
ELEV.=1368.03 (NAVD88)

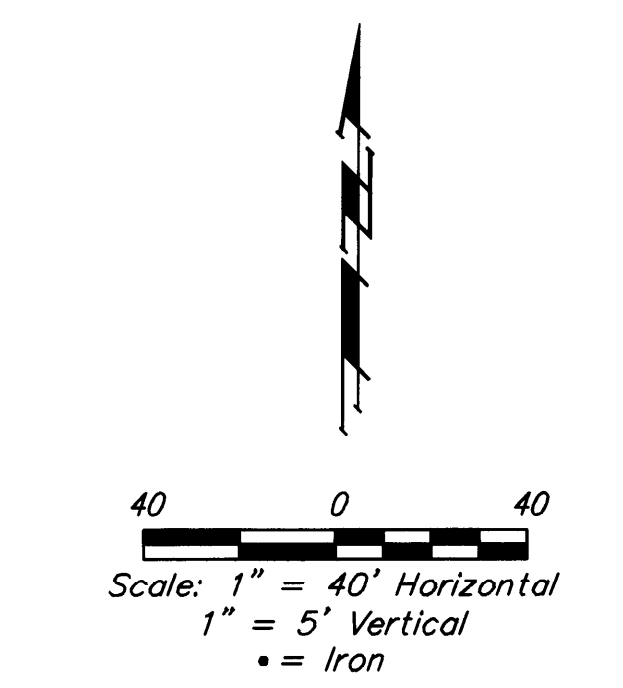
45 Deg. 11.25 Deg. Bend at Sta. 22+82.14, Line #1, 1683 PPW
5.7' North & 18.3' East of Center of San. Sew. Manhole, Sta. 0+00, Beginning of Line #1, 2136 PPS

90 Deg. Bend at Sta. 21+62.02, Line #1, 1683 PPW
5.7' North & 18.3' East of Center of San. Sew. Manhole, Sta. 1+10.5, Line #1, 2136 PPS

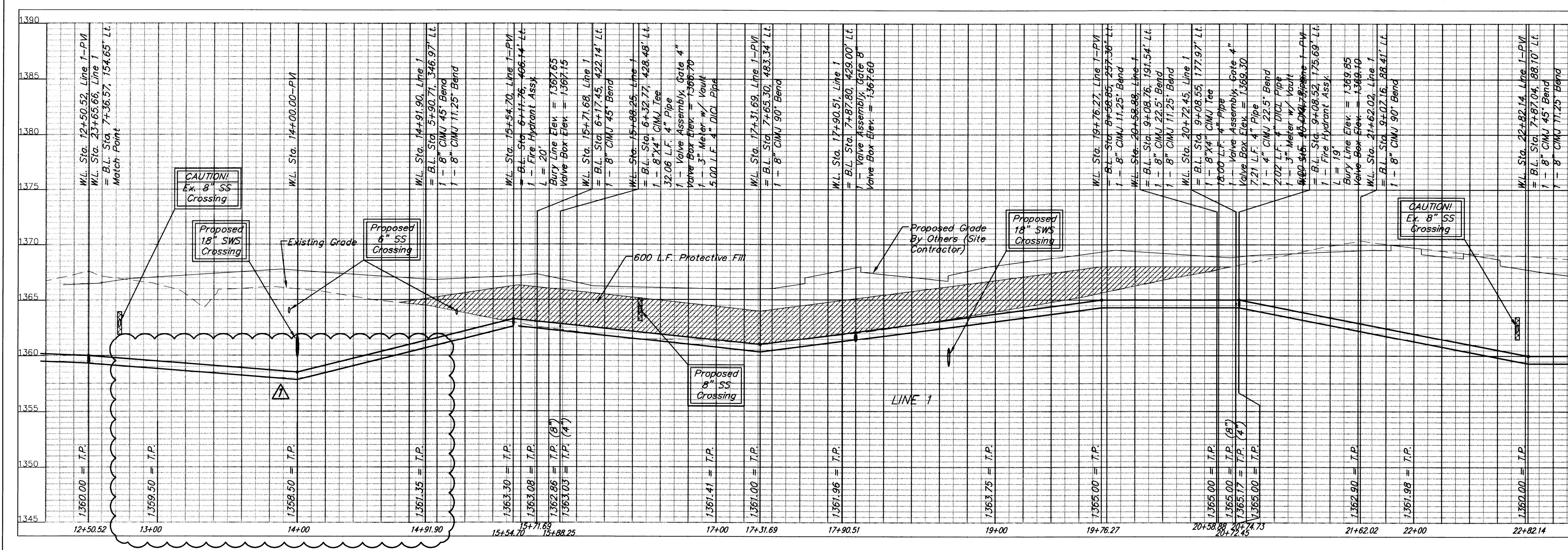
22.5 Deg. Bend 11.25 Deg. Bend at Sta. 20+58.88, Line #1
19.5' south & 13.5' east of Fire Hydrant at Sta. 20+74.73, Line 1

4" 22.5 Deg. Bend Tee/Valve Assembly at Sta. 20+72.45, Line #1, 1683 PPW
14.1' North & 2.5' West of Center of San. Sew. Manhole, Sta. 2+22.5, End of Line #1, 2136 PPS

Tee/Valve Assembly at Sta. 20+74.73, Line #1, 1683 PPW
14.6' North & 4.6' West of Center of San. Sew. Manhole, Sta. 2+22.5, End of Line #1, 2136 PPS



- 45 Deg. Bend at Sta. 14+91.90, Line #1
3' west & 15' south of center of SS MH at Sta. 2+15.9, Line 2, Project # 2136PPS
- Tee/Valve Assembly at Sta. 15+54.70, Line #1
20' north of Fire Hydrant at Sta. 15+54.7, Line 1
- 45 Deg. Bend at Sta. 15+71.68, Line #1
25' east & 5' north of Fire Hydrant at Sta. 15+54.7, line 1
- Tee/Valve Assembly at Sta. 15+88.25, Line #1, 1683 PPW
13.2' South & 25.8' East of Center of PH, Sta. 16+54.70, Line #1, 1683 PPW
- 90 Deg. Bend at Sta. 17+31.69, Line #1
158' south & 38' east of Fire Hydrant at Sta. 15+54.7, Line 1
- 8" Valve Assembly at Sta. 17+90.51, Line #1
158' south & 38' west of Fire Hydrant at Sta. 15+54.7, Line 1
- 11.25 Deg. Bend at Sta. 19+76.27, Line #1
86' east & 2' south of Fire Hydrant at Sta. 20+74.73, Line 1.

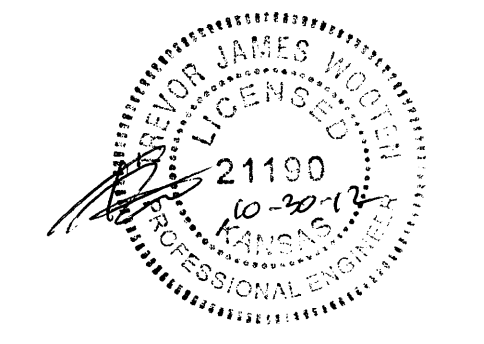


Baughman **LINE 1**
WATER DISTRIBUTION SYSTEM







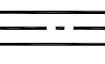

Baughman Company, P.A. 315 E. 11th St., Wichita, KS 67211 F 316-2627271 F 316-2626149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 1683 PPW (607853)	DESIGN TJW	DRAWN TMS
REVISIONS 10.30.12 moved from crossing to 14-00	TMS	APPROVED DATE 09/12
SCALE Noted		SHEET 7R OF 10

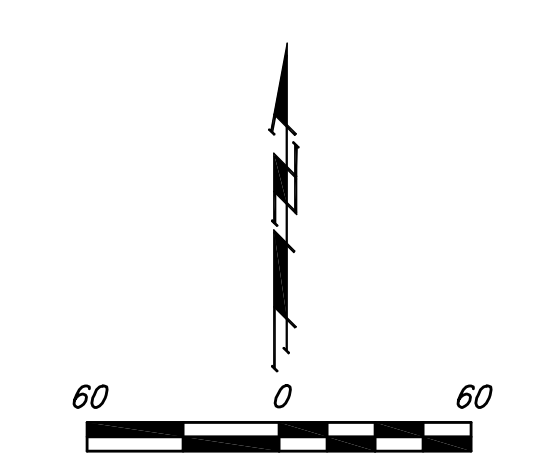
W:\TREVOR CURRENT.dwg\Projects\Great Plains Business Park 4th Add\2136\7R.dwg



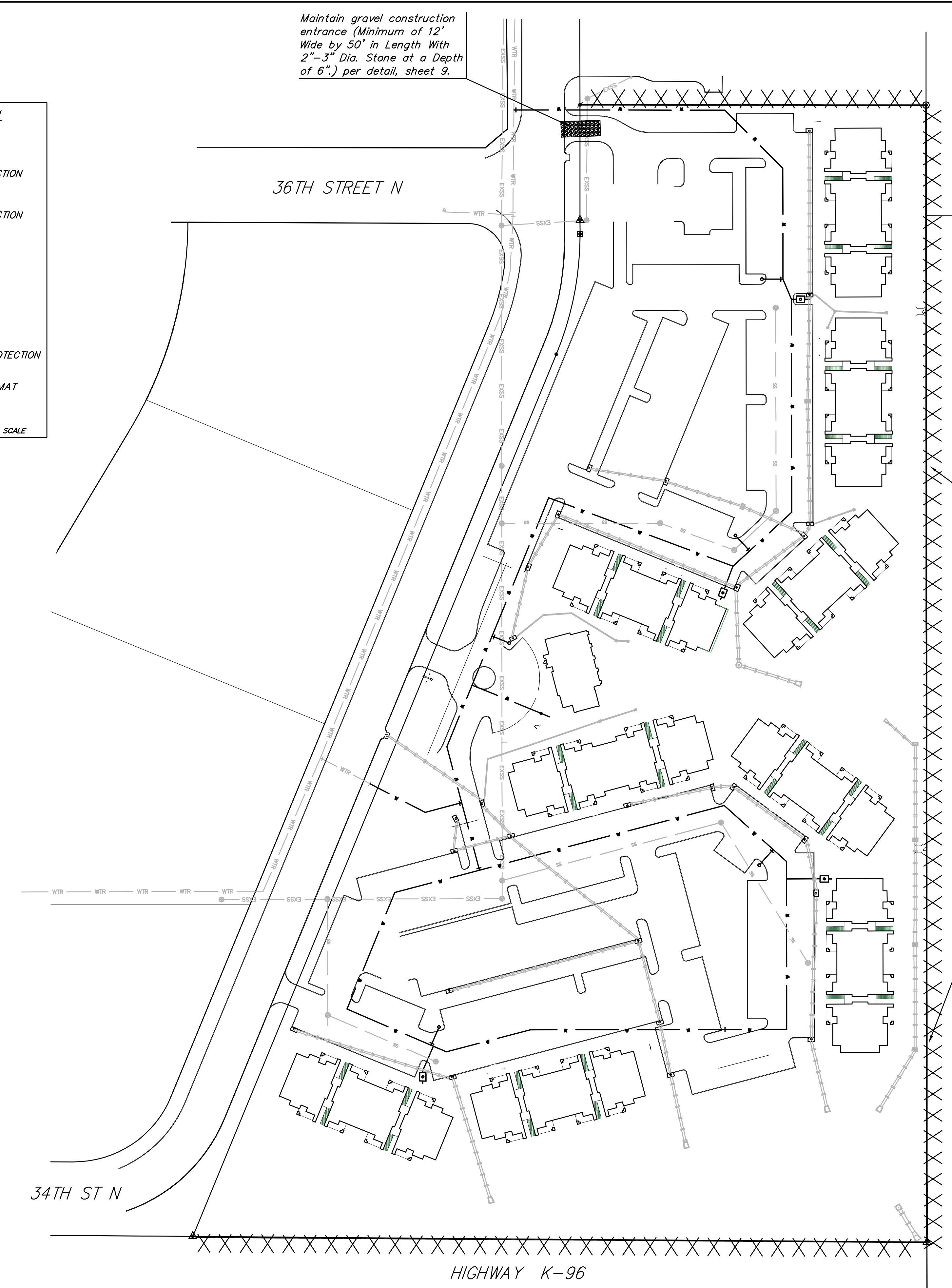
EROSION CONTROL PLAN LEGEND
(Installation Details Found in the SWP2 Plan)

-  - DROP INLET PROTECTION
-  - CURB INLET PROTECTION
-  - DITCH CHECKS
-  - SILT FENCING
-  - CUT-OFF TRENCH
-  - BACK OF CURB PROTECTION
-  - EROSION CONTROL MAT
-  - TEMPORARY DITCH

NO SCALE



Maintain gravel construction entrance (Minimum of 12' Wide by 50' in Length With 2"-3" Dia. Stone at a Depth of 6".) per detail, sheet 9.




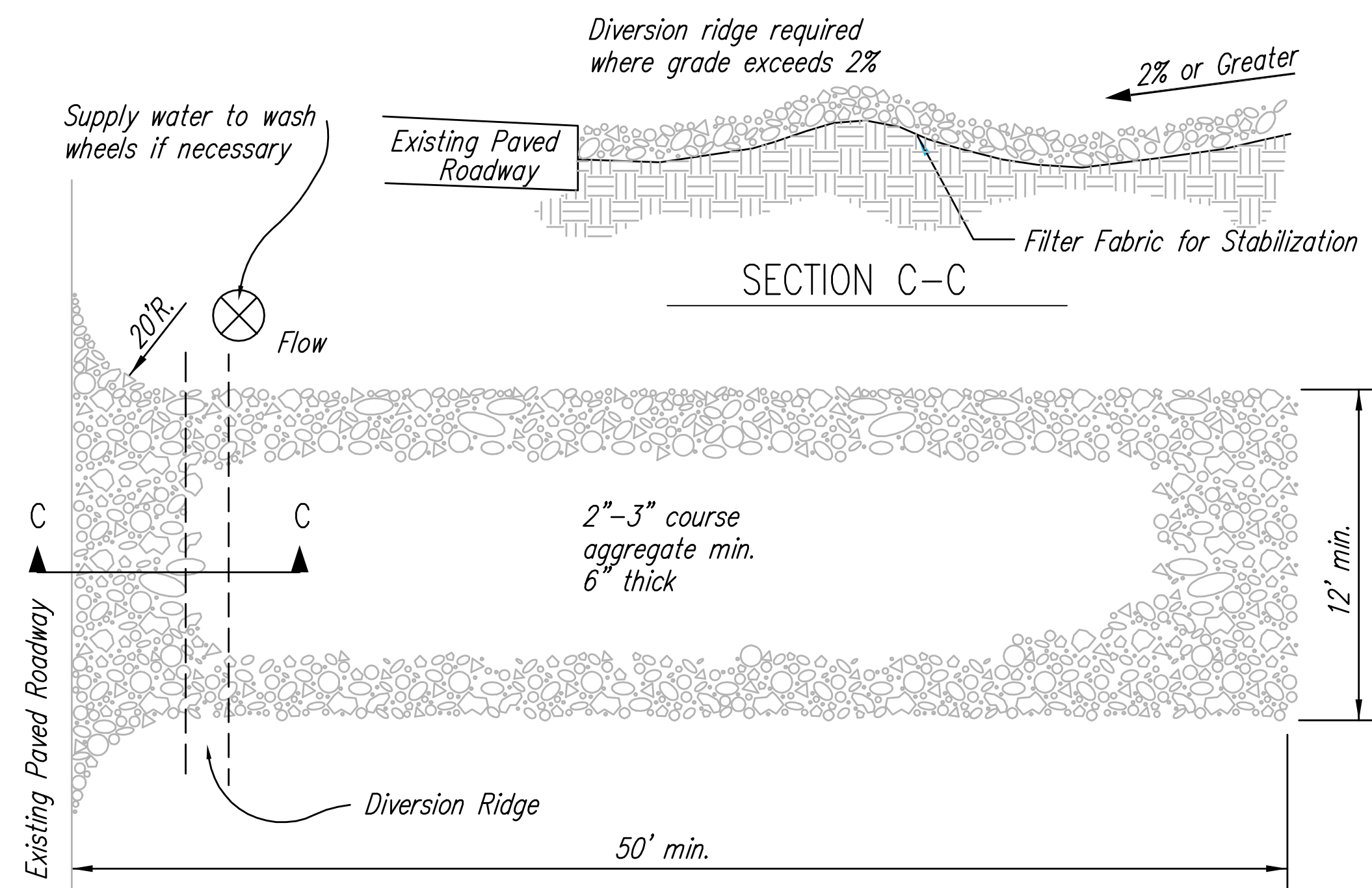
Maintain 2,113 L.F. of Erosion Control Silt Fence per Detail, sheet 9.

EROSION CONTROL MEASURE	INSTALL	MAINTAIN	REMOVE
BACK OF CURB PROTECTION (LF)	0	0	0
CONSTRUCTION ENTRANCE (EA)	0	1	0
CURB INLET BARRIER (EA)	0	0	0
DITCH CHECK (EA)	0	0	0
DROP INLET PROTECTION (EA)	0	0	0
EROSION CONTROL (LS)	0	0	0
EROSION CONTROL BERM (LF)	0	0	0
SILT FENCE (LF)	0	2,113	0
EROSION CONTROL MAT (SY)	0	0	0

QUANTITIES ARE FOR INFORMATION ONLY! CONTRACTOR SHALL VERIFY QUANTITIES PER FINAL BID QUANTITY SHEET.

* ALL EXISTING BMPs INCLUDING CONSTRUCTION ENTRANCE, SEDIMENT BARRIERS, SILT FENCE, CUT-OFF TRENCH, AND EROSION CONTROL MAT SHALL BE MAINTAINED AND REPAIRED IF NECESSARY. REPLACEMENT OR REMOVAL OF EROSION CONTROL MEASURES TO BE PAID FOR BY L.S. BID ITEM "MAINTAIN EXISTING EROSION CONTROL BMPs"

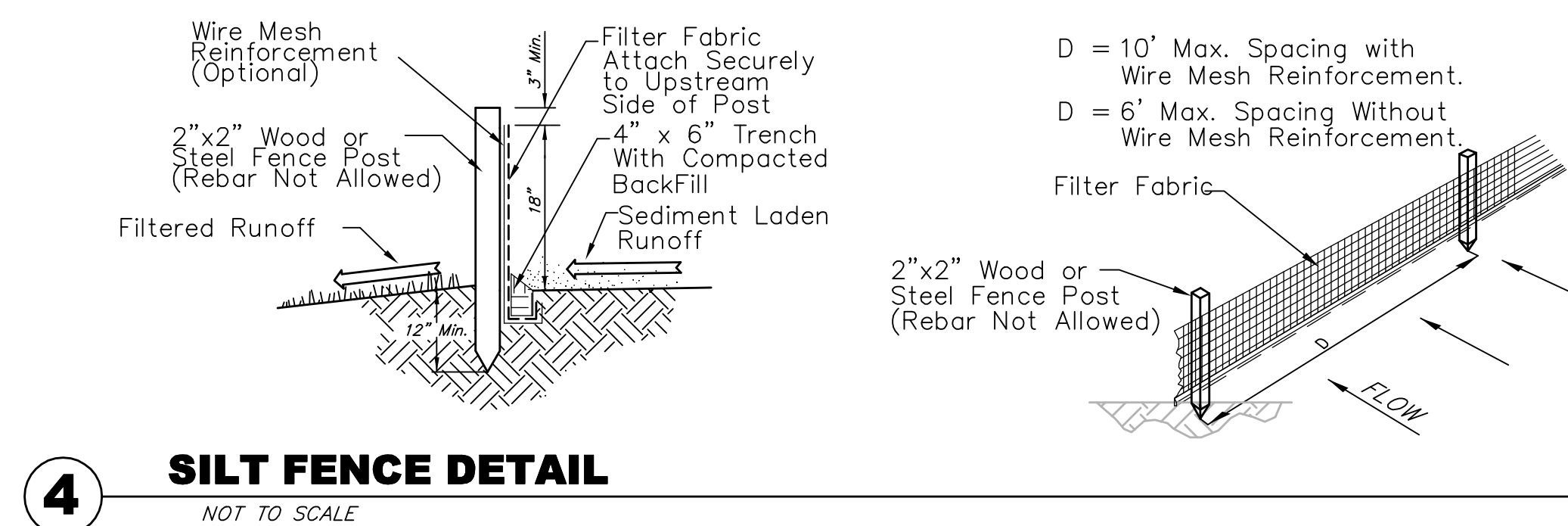
 Baughman	GREAT PLAINS BUSINESS PARK 4TH ADD. EROSION CONTROL PLAN WATER DISTRIBUTION SYSTEM	
	<small>Baughman Company, P.A. 515 Ellis St. Wichita, KS 67211 P 316-2637711 F 316-2634149 ENGINEERING SURVEYING PLANNING LANDSCAPE ARCHITECTURE</small>	
PROJECT NUMBER 1683 PPW (607853)	DESIGN TJW	DRAWN TMS
REVISIONS:	APPROVED DATE 09/12	SCALE Noted
		8 OF 10
<small>Wtr.dwg</small>		<small>12-06-E777</small>




NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
4. DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

3 STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

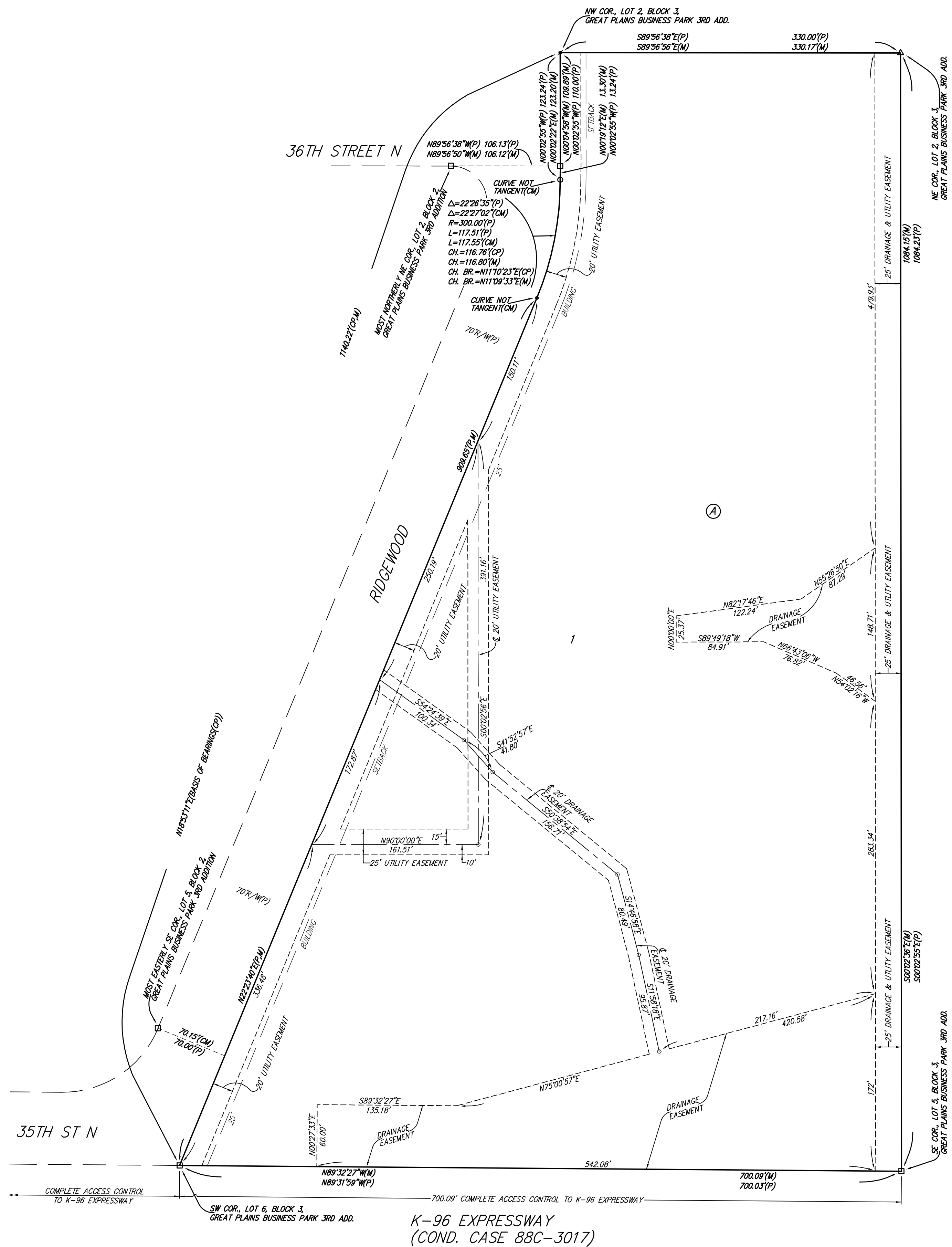


4 SILT FENCE DETAIL
NOT TO SCALE

 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION	STRAW BALE DITCH CHECK AND BARRIER DETAILS		
	INTERIM CITY ENGINEER GARY JANZEN, P.E.		
	PROJECT NUMBER 1683 PPW (607853)	OCA NUMBER	DATE 09/12
	CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		DESIGN
		SHEET 9 of 10	

GREAT PLAINS BUSINESS PARK 4TH ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



NOTE:
ADDITIONAL BUILDING SETBACK REQUIREMENTS AND RESTRICTIONS PER COMMUNITY UNIT PLAN DP-326.

- = #4 REBAR W/ "BAUGHMAN" CAP (SET)
- = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
- ◻ = #5 REBAR W/ "TIG" CAP (FOUND)
- = #5 REBAR (FOUND)
- △ = #4 REBAR W/ "SL5168" CAP (FOUND)

(M) = MEASURED
(P) = PLATTED
(CM) = CALCULATED PER MEASURED INFO.
(CP) = CALCULATED PER PLATTED INFO.

MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING TO THE STRUCTURES		
LOT	BLOCK	ELEVATION
1	A	1366.0

BENCHMARK:
CROSS CUT ON TOP OF CATCH BASIN, WEST SIDE OF RIDGEWOOD, 14'2" NORTHEAST OF THE SE COR. OF LOT 3, BLOCK 2, GREAT PLAINS BUSINESS PARK 3RD ADDITION. ELEV.=1366.03 (NAVD88)

State of Kansas) SS We, Baughman Company, P.A., Surveyors in Sedgwick County) do hereby certify that we have surveyed and platted "GREAT PLAINS BUSINESS PARK 4TH ADDITION", Wichita, Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as and being a replat of all of Lots 2, 3, 4, 5, and 6, Block 3, Great Plains Business Park 3rd Addition to Wichita, Kansas, Sedgwick County, Kansas, TOGETHER with all of Ridgewood Court as dedicated in said Great Plains Business Park 3rd Addition.

All being situated in the Northwest Quarter of Section 36, Township 26 South, Range 1 East of the 6th Principal Meridian, Sedgwick County, Kansas.

Existing public easements and dedications being vacated by virtue of K.S.A. 12-512b.

Baughman Company, P.A.

_____, Chair
Shawn Farney

_____, Secretary
John L. Schlegel

_____, Surveyor
Michael G. Conrey

Know all men by these presents that we, the undersigned, have caused the land in the surveyors certificate to be platted into a Lot and a Block, to be known as "GREAT PLAINS BUSINESS PARK 4TH ADDITION", Wichita, Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The drainage and utility easements are hereby granted as indicated for drainage purposes and for the construction and maintenance of all public utilities. The drainage easements are hereby granted as indicated for drainage purposes. Access controls shall be as indicated on the face of the plat and are hereby granted to the appropriate governing body. The Minimum Building Pad Elevation for the lowest opening to the structures on Lot 1, Block A shall be as indicated on the face of the plat.

Ridgewood North, LLC,
a limited liability company

_____, Manager
Susayn C. Brandes, President of
Great Plains Ventures, Inc.,
a Kansas corporation

State of Kansas) SS The foregoing instrument acknowledged before me, this _____ day of _____, 2012, by Susayn C. Brandes, President of Great Plains Ventures, Inc., a Kansas corporation, as Manager of Ridgewood North, LLC, a limited liability company,

_____, Notary Public

My App't. Exp. _____

_____, County Clerk
Kelly B. Arnold

We, the undersigned holders of a mortgage on the above described property, do hereby consent to this plat of "GREAT PLAINS BUSINESS PARK 4TH ADDITION", Wichita, Sedgwick County, Kansas.

INTRUST Bank, N.A.

_____, (Title)

State of Kansas) SS The foregoing instrument acknowledged before me, this _____ day of _____, 2012, by _____, (Title) of INTRUST Bank, N.A., on behalf of the bank.

_____, Notary Public

My App't. Exp. _____

This plat of "GREAT PLAINS BUSINESS PARK 4TH ADDITION", Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this _____ day of _____, 2012.

Wichita-Sedgwick County Metropolitan Area Planning Commission

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this _____ day of _____, 2012.

_____, Mayor
Carl Brewer

_____, City Clerk
Karen Sublett

Reviewed in accordance with K.S.A. 58-2005 on this _____ day of _____, 2012.

_____, Deputy County Surveyor
Tricia L. Robello, L.S. #1246
Sedgwick County, Kansas

Entered on transfer record this _____ day of _____, 2012.

_____, County Clerk
Kelly B. Arnold

State of Kansas) SS This is to certify that this plat has been filed for record in the office of the Register of Deeds, this _____ day of _____, 2012 at _____ o'clock _____ M; and is duly recorded.

_____, Register of Deeds
Bill Meek

_____, Deputy
Tonya Buckingham