

GENERAL NOTES:

- The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.
 - Maintain a minimum of 10-foot horizontal separation between all water lines (mains, services, and fire hydrants) and all sanitary sewer lines (mains, services, and manholes). All separation distances are to be measured from edge-to-edge, at the closest point.
 - Maintain a minimum of 2-foot vertical separation between all water lines (mains and services) and all gravity sanitary sewer lines (mains, services, and manholes) at crossings. All separation distances are to be measured from edge-to-edge, at the closest point.
 - Maintain a minimum of 2-foot vertical separation between all water lines (mains and services) and all pressurized sanitary sewer lines (force mains and services) at crossings. Waterlines must always be placed above pressurized sanitary sewer lines where they cross. All separation distances are to be measured from edge-to-edge, at the closest point.
- 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:

AT&T	1-800-246-8454
Black Hills Energy	1-800-694-8989
City of Wichita Water & Sewer	1-316-219-8921
City of Wichita Stormwater	1-316-268-4090
City of Wichita Traffic	1-316-268-4034
Cox Communications	1-888-249-3530
Kansas Gas Service	1-888-482-4950
Energy	1-800-544-4857
- Utility service lines, poles, 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.
- 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 will 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 will 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 City 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.
- The Engineering Division shall field locate water valve one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, valve boxes or fire hydrants damaged during construction shall be repaired by Contractor at his own expense. Valve boxes and water meters within the project limits shall be adjusted to match field grades by the contractor.
- The Contractor shall notify the consultant engineer and Dawnita Reinhardt at 316-650-0740 with the City of Wichita with the anticipated construction start date and notify them of project completion. Staking and inspection for this project will be the responsibility of the Contractor.
- If traffic will be impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer at traffic@wichita.gov before construction can begin. The Contractor shall be responsible for all traffic control measures to facilitate construction. All construction zone markings and signage shall conform to the latest version of Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Dept. of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be the Contractors responsibility.
- All elevations shown are NAVD88.
- All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions per City specifications.
- Any sidewalk, drive approach, curb, or street pavement removed to construct project must have a pavement cut permit and be replaced by the City contractor. Permits can be obtained by calling 316-268-4501 or 316-268-4480.
- All applicable fees (tap, equity, in lieu of & main benefit) must be paid before any work on this project can commence. Quotes can be obtained on fees by calling 316-268-4555.
- City maintenance of water mains ends at right-of-way or easement line or within two feet of vault.
- Opening and closing of water valves shall be done slowly to prevent damage to the water distribution system from water hammer. All valves closed by the contractor must be reopened as new construction permits. The project inspector must ascertain that any valve closed by the Contractor is reopened. The contractor will be permitted to operate water valves only when the project inspector assigned to the project is present.
- The Contractor shall lay a Tracer Wire and Set Test Stations along all water pipe installed in accordance with City Specifications and Tracer Wire Detail on detail sheet WL-101, cost is subsidiary to pipe installation.
- The contractor shall provide materials for temporary blowoff of waterlines. Connections to the existing waterline(s) shall be made with clean, swabbed pipe and flushed upon completion of tie-ins.
- Requests for short term water interruptions shall be made to the City Water Distribution Division and will be subject to their approval. The Contractor shall give written notice to any property owner, business, and/or tenants that will have water service interrupted at least 5 days in advance. Such notifications should indicate the time and date that the water will be turned off and when the service will be restored. No business, property owner, and/or tenants shall be without water service for more than 8 hours. Proposed tie in locations which will affect water service to property owners shall be performed during non-peak hours.
- The Contractor must schedule the connections to the existing main with the City such that there is a minimum disruption of service. Connections shall be made during periods of low water usage. The Contractor shall submit his proposed schedule for completing work for City approval at least 10 days prior to beginning construction.
- Deflections at pipe joint or couplings shall not exceed the pipe manufacturers recommended maximum. Where deflections are greater than the maximum allowed, the contractor shall utilize fittings.
- Any existing joint exposed during excavation shall be replaced if within four feet of proposed joint.
- Valves 12 inches and larger are to be operated by the City Water Distribution Division, 48 hours of advance notice is required.
- All wet taps shall be installed by the City of Wichita. The Contractor will reimburse the City for tapping fees prior to tap being made. Unless noted on plans.
- The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the contractor's expense.
- Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.
- Wichita Fire Department inspections may be scheduled by calling 316-268-4441 or Dawnita Reinhardt at 316-650-0740 with the City of Wichita.
- 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 "Maintain Existing BMPs".
- All excess excavation shall remain on-site and shall be stockpiled or spread at a location determined by the engineer.
- All of Armour St. R/W shall be seeded and mulched as follows:

Seed -- Kansas Premium Fescue Blend; 8 lbs. PLS/1000 Sq. Ft.
Annual Ryegrass; 3 lbs./1000 Sq. Ft.
Fertilizer -- 12-24-12 Ratio; 45 Lbs./Ac.
Mulch -- 2 Tons Prairie Hay/Ac.
- The Contractor shall not begin work on the project until the Project Inspector is assigned and on site. Any work completed without inspection will be required to be uncovered for inspection at the Contractor's expense.

AS BUILT PLANS
 Contractor: Dondlinger Construction Co.
 Inspector: Fred Smith, Baughman Co.
 As Builts by: KEK, 5/21/21

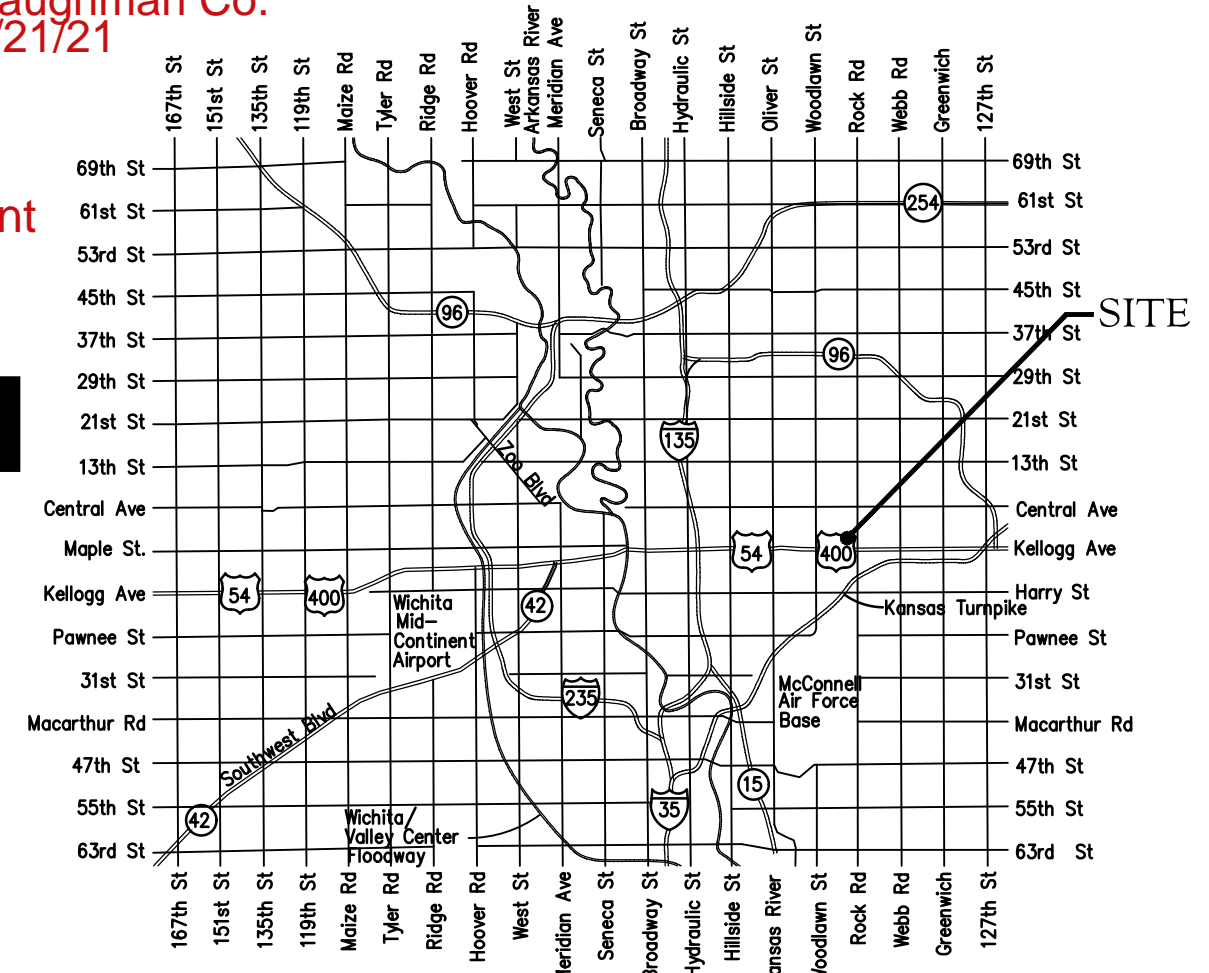
WATER DISTRIBUTION SYSTEM to serve **RUSTY ECK QUICK LANE ADDITION**

353 S. Towne East Mall Dr.
CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer

Project Number
 PPW-2020-038653
 54030980

Mueller Fire Hydrant

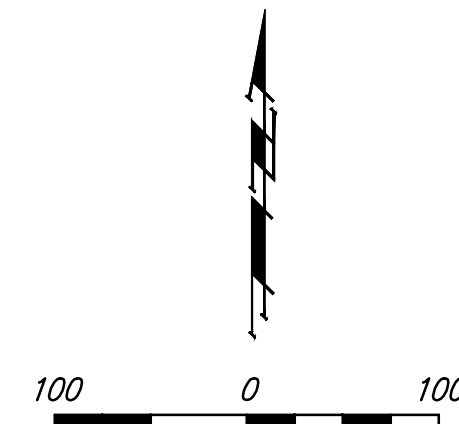


Vicinity Map

Benchmarks

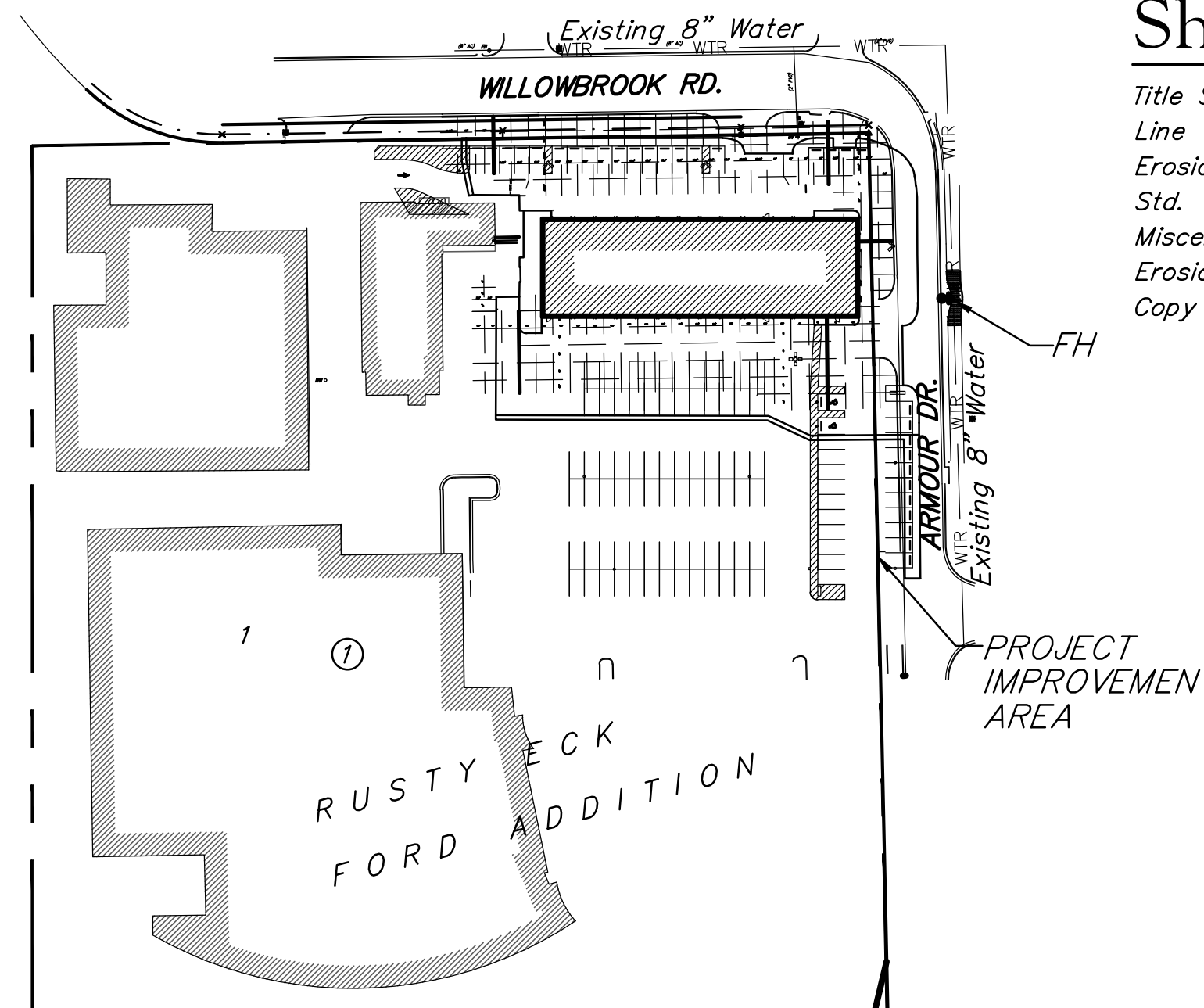
BM #1: "□" on top of curb, approx. 99.7' east and 204.1' south of the northeast corner of Lot 1 EXCEPT deeded for ST and VAC 5 FT ST on E & Following a LI BEG NEG COR LOT 1 S 235.53 FT to CUR SELY ALG CUR 314.49 FT to Rusty Eck Ford Addition, Wichita, Sedgwick County, KS
 Elevation = 1017.09 (NAVD 88)

BM #2: "□" on top of curb, approx 388.5 west and 0.3' north of the northeast corner of Lot 1 EXCEPT deeded for ST and VAC 5 FT ST on E & Following a LINE BEG COR LOT 1 S 235.53 FT to CUR SELY ALG CUR 314.49 FT to Rusty Eck Ford Addition, Wichita, Sedgwick County, KS
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Sheet Index

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Copy of Plat	11



APPROVED AS NOTED
 BY WICHITA PUBLIC WORKS
 ENGINEERING DIVISION
 & BY WICHITA FIRE DEPARTMENT

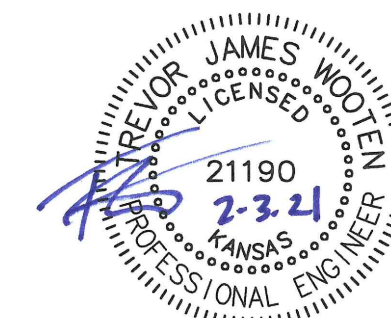
Engineering Approved by Shawn Mellies on 02/09/2021
 Utilities Approved by Greg Lolley on 02/09/2021
 Fire Dept. Approved by Jose Ocadiz on 02/09/2021

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 is 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 City Engineering. All Construction and Materials shall comply with the City of Wichita Specifications and Standards and Special Provisions (on file and available in the Engineer's Office) or on the City's Website.

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.

An approved copy of these plans signed by City staff are required on-site.



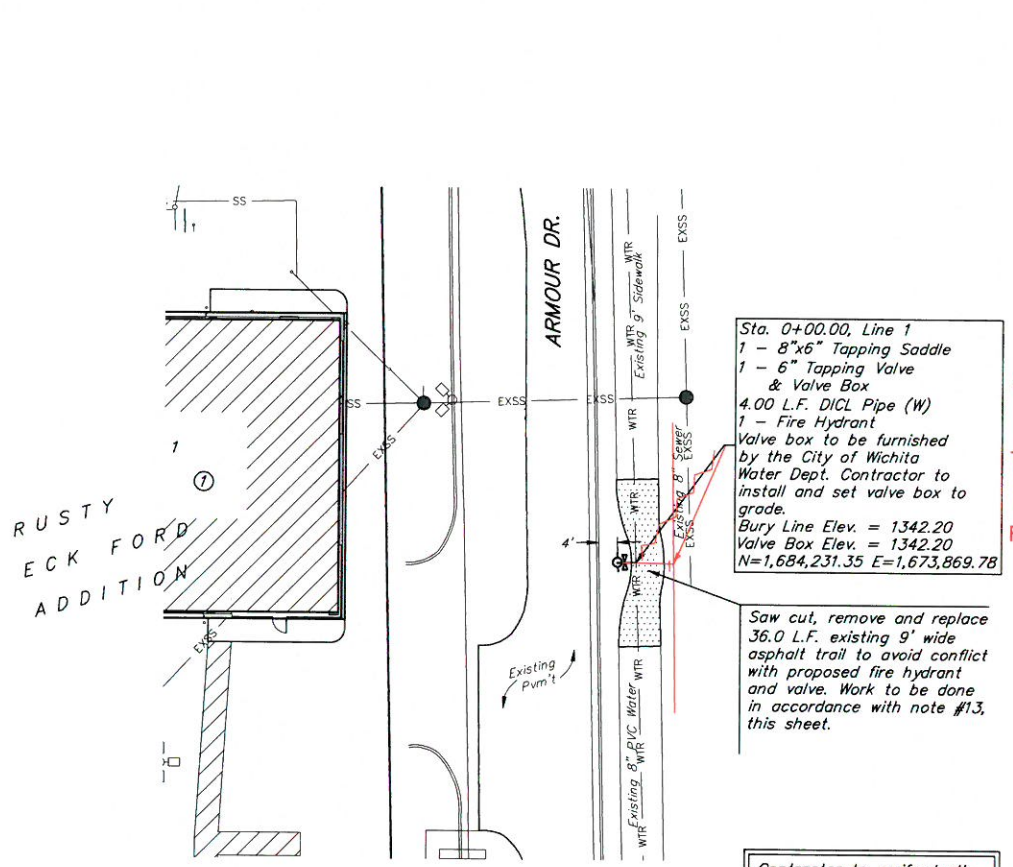
February 2021

Baughman
 Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0143
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

BENCHMARKS:

BM #1: □ on top of curb, approx. 99.7' east and 204.1' south of the northeast corner of Lot 1 EXCEPT deeded for ST and VAC 5 FT ST on E & Following a LI BEG NE COR LOT 1 S 235.53 FT to CUR SELY ALG CUR 314.49 FT to Rusty Eck Ford Addition, Wichita, Sedgwick County, KS
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BM #2: □ on top of curb, approx 388.5 west and 0.3' north of the northeast corner of Lot 1 EXCEPT deeded for ST and VAC 5 FT ST on E & Following a LINE BEG COR LOT 1 S 235.53 FT to CUR SELY ALG CUR 314.49 FT to Rusty Eck Ford Addition, Wichita, Sedgwick County, KS
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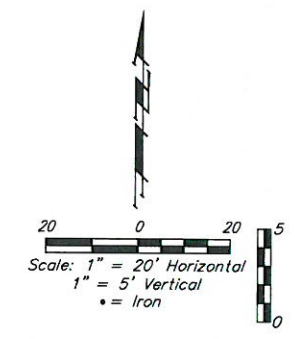


Sta. 0+00.00, Line 1
 1 - 8"x6" Tapping Saddle
 1 - 6" Tapping Valve & Valve Box
 4.00 L.F. D.I.C.L. Pipe (W)
 1 - Fire Hydrant
 Valve box to be furnished by the City of Wichita Water Dept. Contractor to install and set valve box to grade.
 Bury Line Elev. = 1342.20
 Valve Box Elev. = 1342.20
 N=1,684,231.35 E=1,673,869.78

Saw cut, remove and replace 36.0 L.F. existing 9" wide asphalt trail to avoid conflict with proposed fire hydrant and valve. Work to be done in accordance with note #13, this sheet.

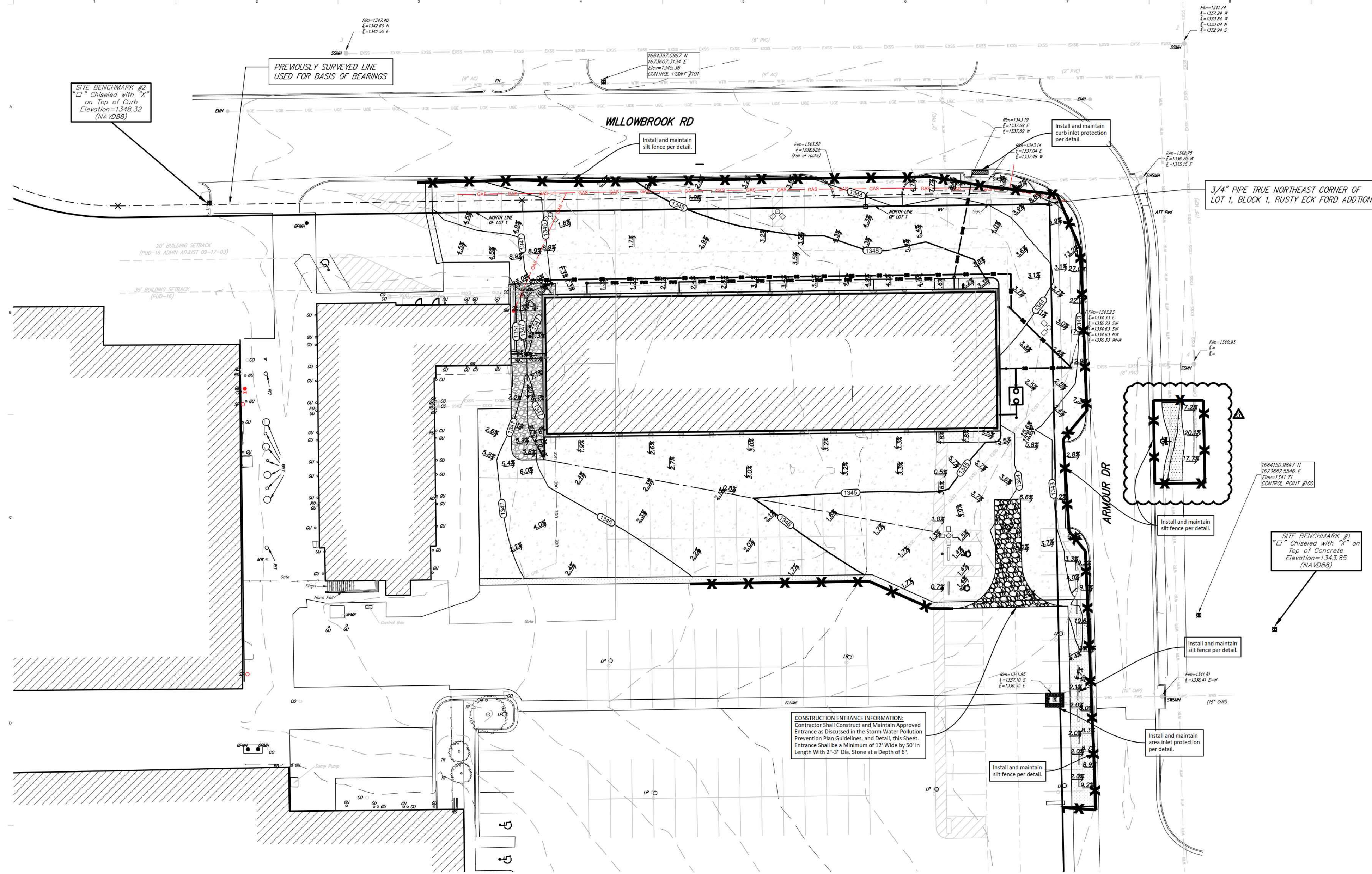
Contractor to verify depth and location of existing utilities. Contractor to relocate any existing utilities as necessary for construction.

Valve is 37' E of the CL of Armour Dr
 147' S of the CL of Willowbrook Rd
 Tee is 39' E of the CL of Armour Dr
 147' S of the CL of Willowbrook Rd
 Fire Hydrant is 20' E of the CL of Armour Dr
 147' S of the CL of Willowbrook Rd



1360		1360
1355	Sta. 0+00.00, Line 1 1 - 8"x6" Tapping Saddle 1 - 6" Tapping Valve & Valve Box 4.00 L.F. D.I.C.L. Pipe (W) 1 - Fire Hydrant Valve box to be furnished by the City of Wichita Water Dept. Contractor to install and set valve box to grade. Bury Line Elev. = 1342.20 Valve Box Elev. = 1342.20	1355
1350		1350
1345		1345
1340	Existing Grade	1340
1335		1335
1330	1338.35 = T.P. (8") 1338.27 = T.P. (6")	1330
	0+00.00	

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



LEGAL DESCRIPTION
 Lot 1 EXC PT deeded for ST and VAC 5 FT ST on E & Following a LI BEG NE COR LOT 1 S 235.53 FT TO CUR SELV ALG CUR 314.49 FT to Rusty Eck Ford Addition, Wichita, Sedgewick County, KS

SITE INFORMATION
 Total Area: 1672,975.8 sq. ft. (15.45 acres)
 Disturbed Area: 164,938.5 sq. ft. (1.49 acres)
 Impervious Area, pre-const: 161,743.9 sq. ft. (1.42 acres)
 Impervious Area, post-const: 161,743.9 sq. ft. (1.42 acres)

BENCHMARKS
 Site Benchmark - 1
 Square cut on top of curb, approx. 99.7' east and 204.1' south of the northeast corner of Lot 1 EXC PT deeded for ST and VAC 5 FT ST on E & Following a LI BEG NE COR LOT 1 S 235.53 FT TO CUR SELV ALG CUR 314.49 FT to Rusty Eck Ford Addition, Wichita, Sedgewick County, KS
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Site Benchmark - 2
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 Elevation = 1017.09 (NAVD 88)

KANSAS ONE CALL
 Contractor shall be required to provide notice to Kansas One Call at 287-2470 a minimum of three (3) working days prior to any excavation or work adjacent to utilities.
 Kansas One Call 1-800-DIG-SAFE

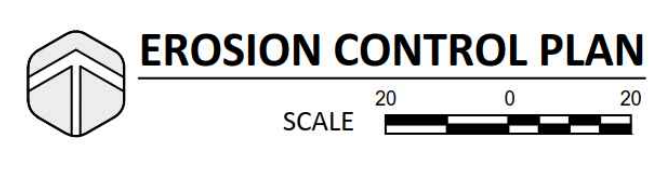
UTILITY CONTACTS

The Contractor must notify the following in case of an emergency:

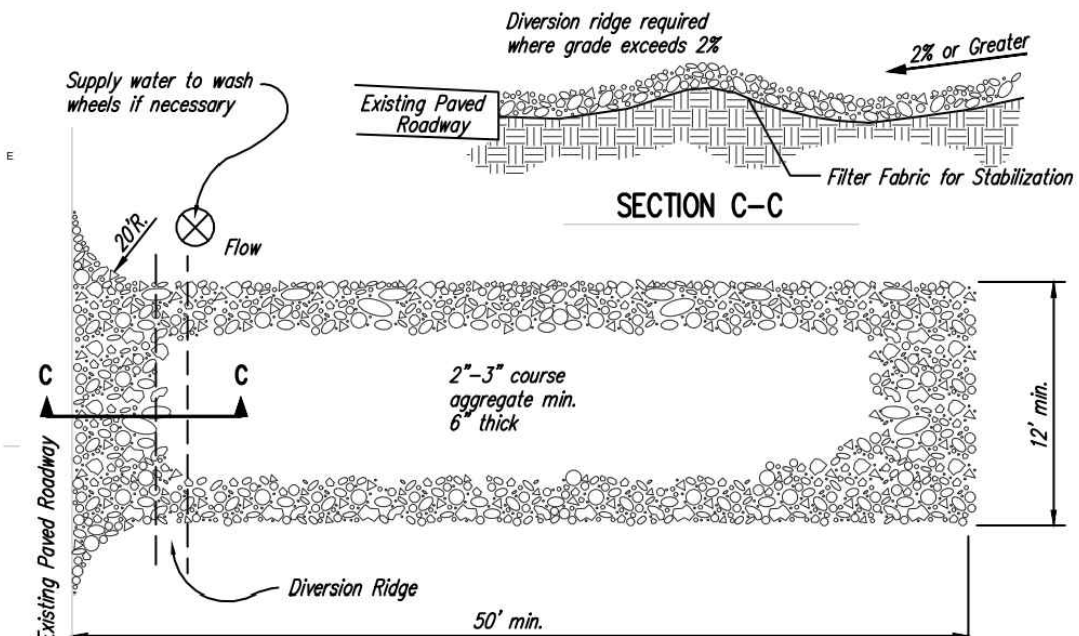
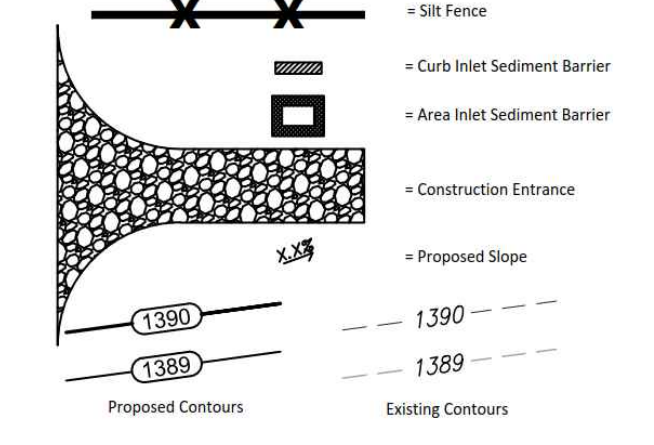
Kansas Gas Service (Gas)	1-888-482-4950
Black Hills Energy (Gas)	1-800-303-0357
Evergy (Electric)	383-8650
Cox Communications (Telecommunication)	262-4270
AT&T (Telecommunication)	268-2759
City of Wichita Water Dept. (Water)	268-4563
City of Wichita Sewer Maint. (San. Sewer)	268-4024
City of Wichita Storm Sewer Maint. (Storm Sewer)	268-4090
City of Wichita Traffic Maint. (Tral. Control)	268-4034
Conoco Pipeline Co. (Petroleum)	1-800-231-2551
Williams Pipeline Co. (Petroleum)	529-6600
Phillips Pipeline Co. (Petroleum)	1-800-324-9696
	or 1-800-766-8230

EROSION CONTROL NOTES

- No land clearing or grading shall begin until all applicable erosion control measures have been installed. This project is subject to this SWPP Plan, if applicable. The Contractor shall comply with any unusual requirements as necessary for the site to be in compliance during construction, per this plan and per City and State specifications (See #11).
- All exposed areas shall be seeded as specified within 14 days of final grading. Seed is to include straw mulch, crimped in place per industry standards.
- Should construction stop for longer than 14 days, the site shall be seeded as specified.
- Maintain erosion control measures after each rain and at least once a week.
- This plan shall not be considered all inclusive as the contractor shall take all necessary precautions to prevent soil sediment from leaving the site.
- Contractor shall comply with all state and local ordinances that apply.
- Additional erosion and sediment control measures will be installed if deemed necessary by on site inspection.
- Land disturbing activities shall not commence until approval to do so has been received by governing authorities.
- If installation of storm drainage system should be interrupted by weather or nightfall, the pipe ends shall be covered with filter fabric.
- See Landscape Plan for ground treatments in all disturbed areas beyond impervious surfaces.
- This Erosion Control Plan should be in job trailer and/or on site at all times. The Contractor is responsible for any needed changes, updates or maintenance to BMPs on site. This plan may change and updates need to be recorded and documented on the plan. This plan is a flexible plan, due to changing site conditions and weather. Please inform Landscape Architect and/or Engineer of changes to plan.
- ANY substitutions for the sediment control devices shown, must be approved by the Landscape Architect and/or Engineer prior to any uses on site.
- If site disturbance is over 1 acre, an NPDES Permit Application has been submitted for this property and a copy of this application must be kept at the job site for the duration of the construction process.

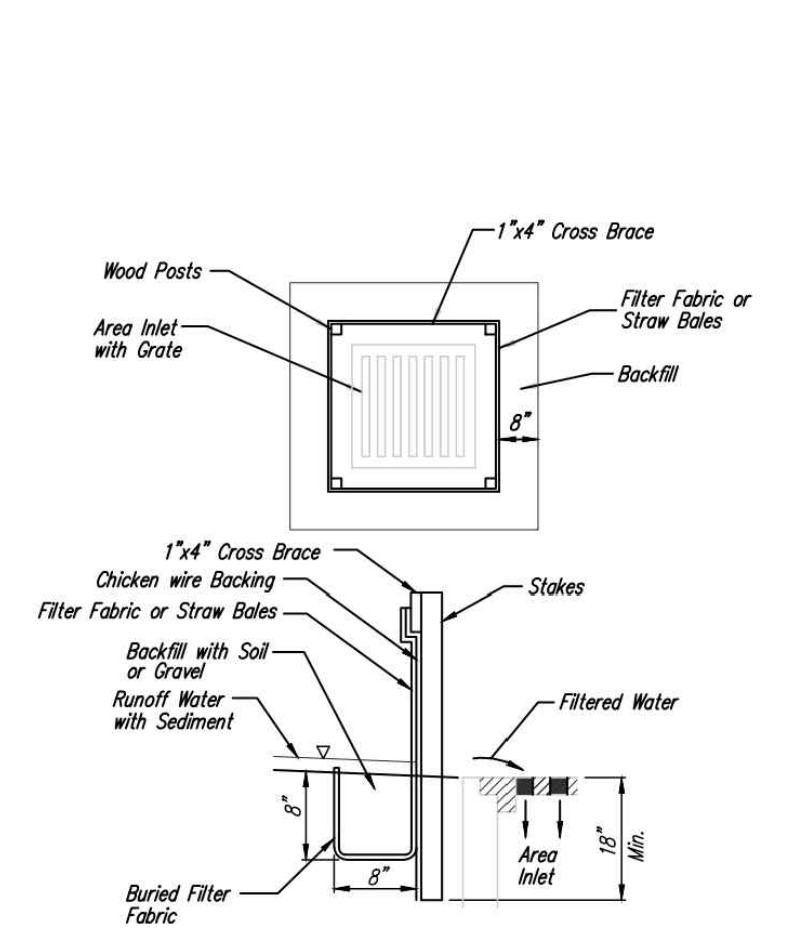


EROSION CONTROL LEGEND

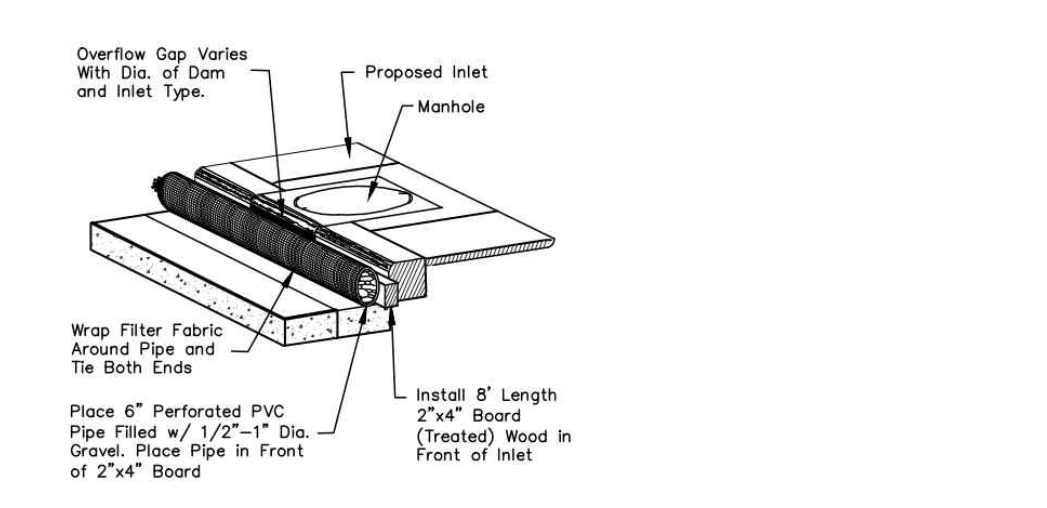


- NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - 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.
 - 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.

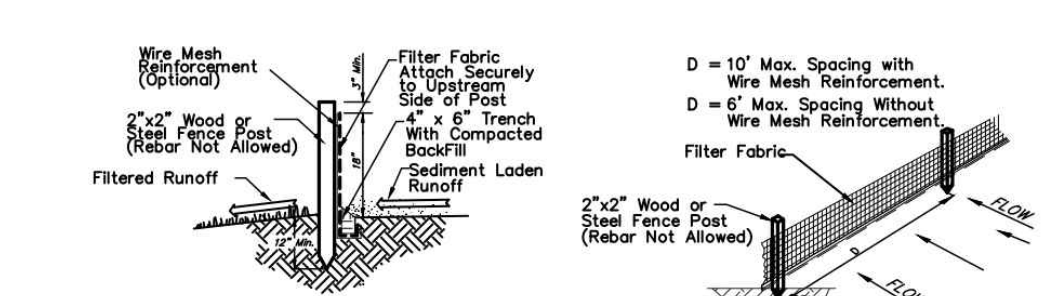
1 STABILIZED CONSTRUCTION ENTRANCE
 NOT TO SCALE



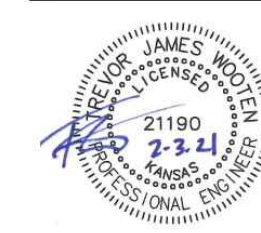
2 INLET PROTECTION FOR AREA INLETS
 (INLET PROTECTION: SILT FENCE OR STRAW BALES)



3 TYPE 1 INLET PROTECTION
 NOT TO SCALE



4 SILT FENCE DETAIL
 NOT TO SCALE



DUDLEY WILLIAMS & ASSOCIATES, P.A.
 MIDWEST ENGINEERING, INC.
 INTEGRATED CONSULTING ENGINEERS
 BAUGHMAN COMPANY, P.A.

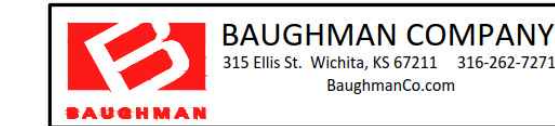
RUSTY ECK
 QUICK LANE ADDITION
 335 S TOWNE EAST MALL DR
 WICHITA KS 67207

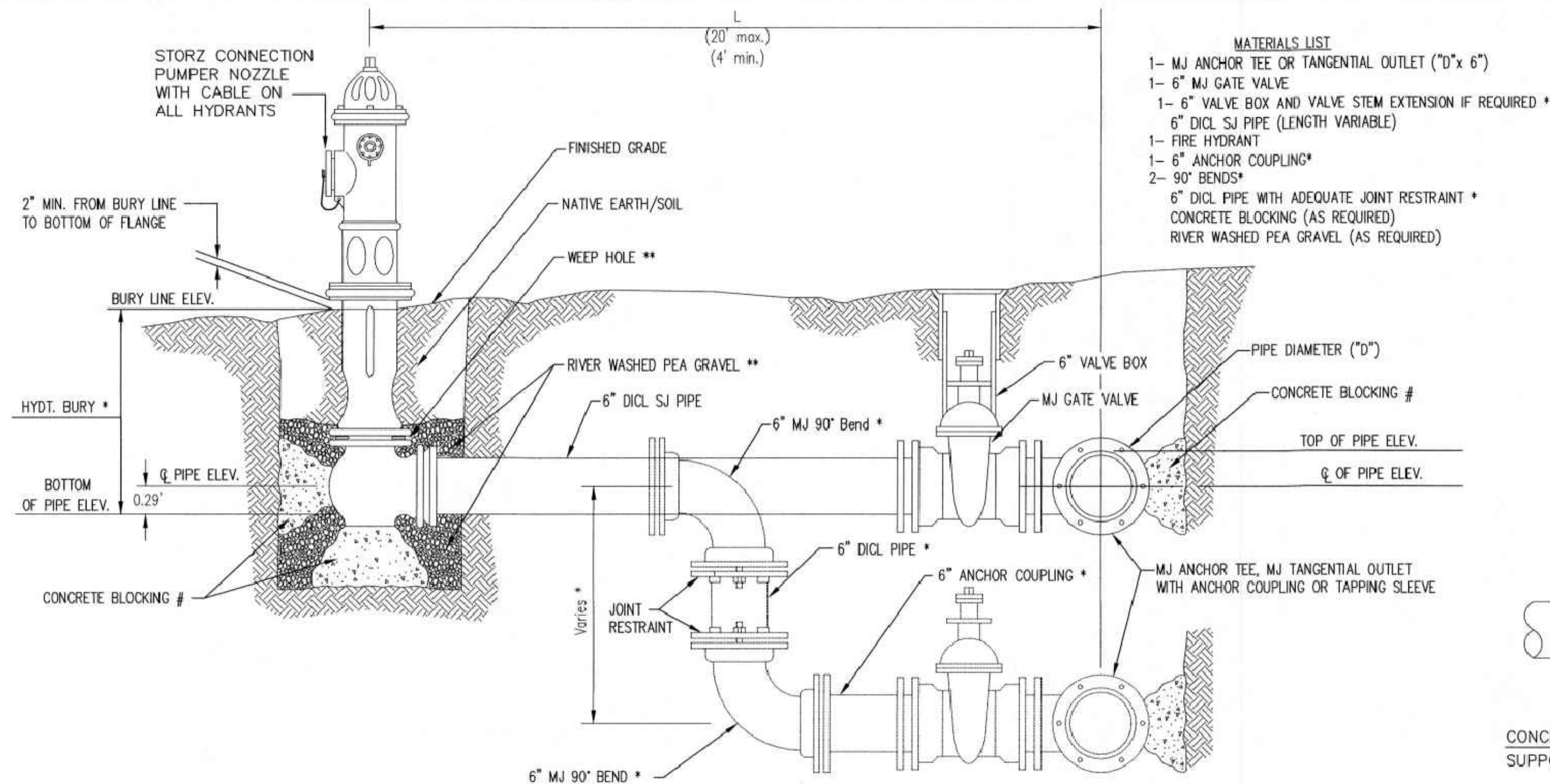
REVISIONS
 ASI #1 - 12-09-20
 CR #5 - 12-18-20
 CR 2 - 02-03-21

PROJECT NUMBER
 5423.00

DATE
 30 NOVEMBER 2020

EROSION CONTROL PLAN
C3.0





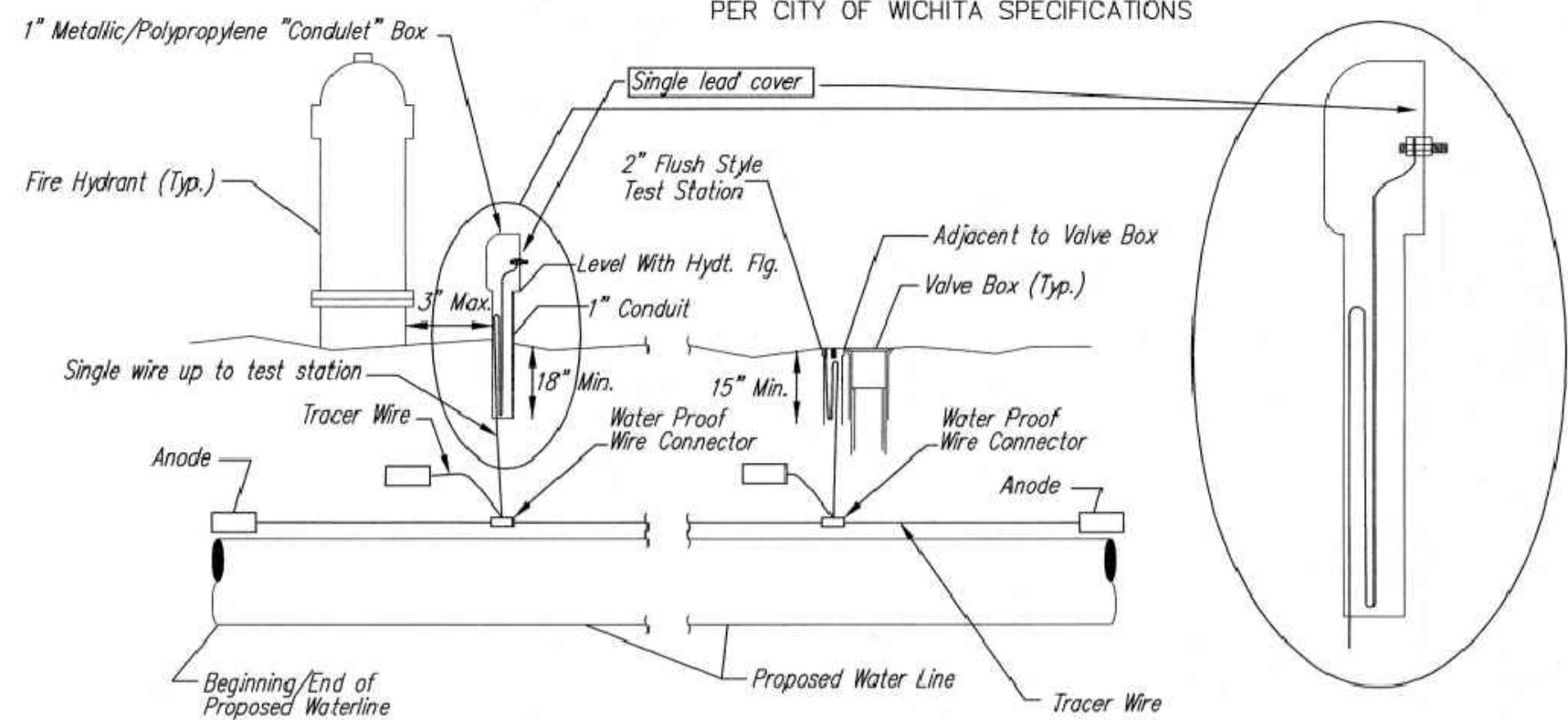
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (10" x 6")
 - 1- 6" MJ GATE VALVE
 - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6" DI CL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6" ANCHOR COUPLING*
 - 2- 90° BENDS*
 - 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT *
 - 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 install 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. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire and waterproof connectors can be found on the City of Wichita's website at www.wichita.gov.

WIRES
The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. 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. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

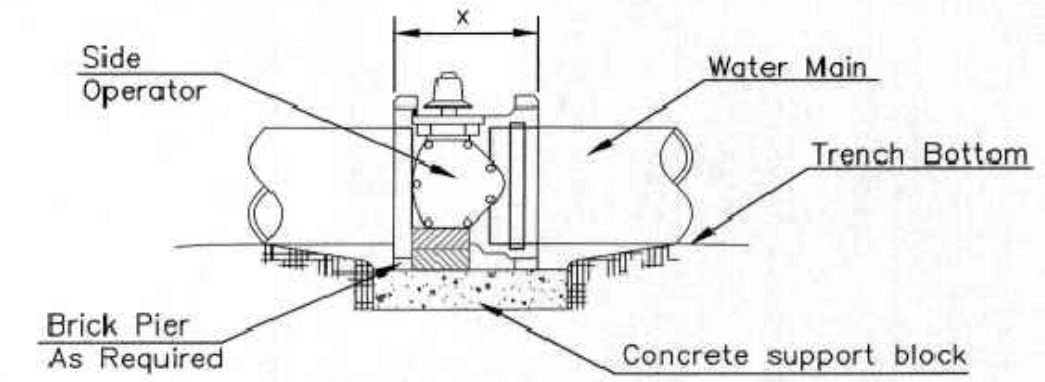
TEST STATIONS
The test station for fire hydrant application shall be a 1" "conduit" style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized 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. The test station for valve applications shall be a 2" flush style test station with wire connector on lid. Model # T2PH7B1LP Handley Industries or CD14*TP SnakePit as manufactured by Copperhead Industries or approved equal. 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 install to allow 12" of wire within the test station. The location of all test stations shall be recorded, and shown in the as-built drawings. Flush style test stations shall not be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire & move flush mount test station to nearest location out of pavement or sidewalk.

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 12 AWG CCS which shall be extended to the test station.

TRACER WIRE DETAIL

COST IS SUBSIDIARY TO PIPE INSTALLATION

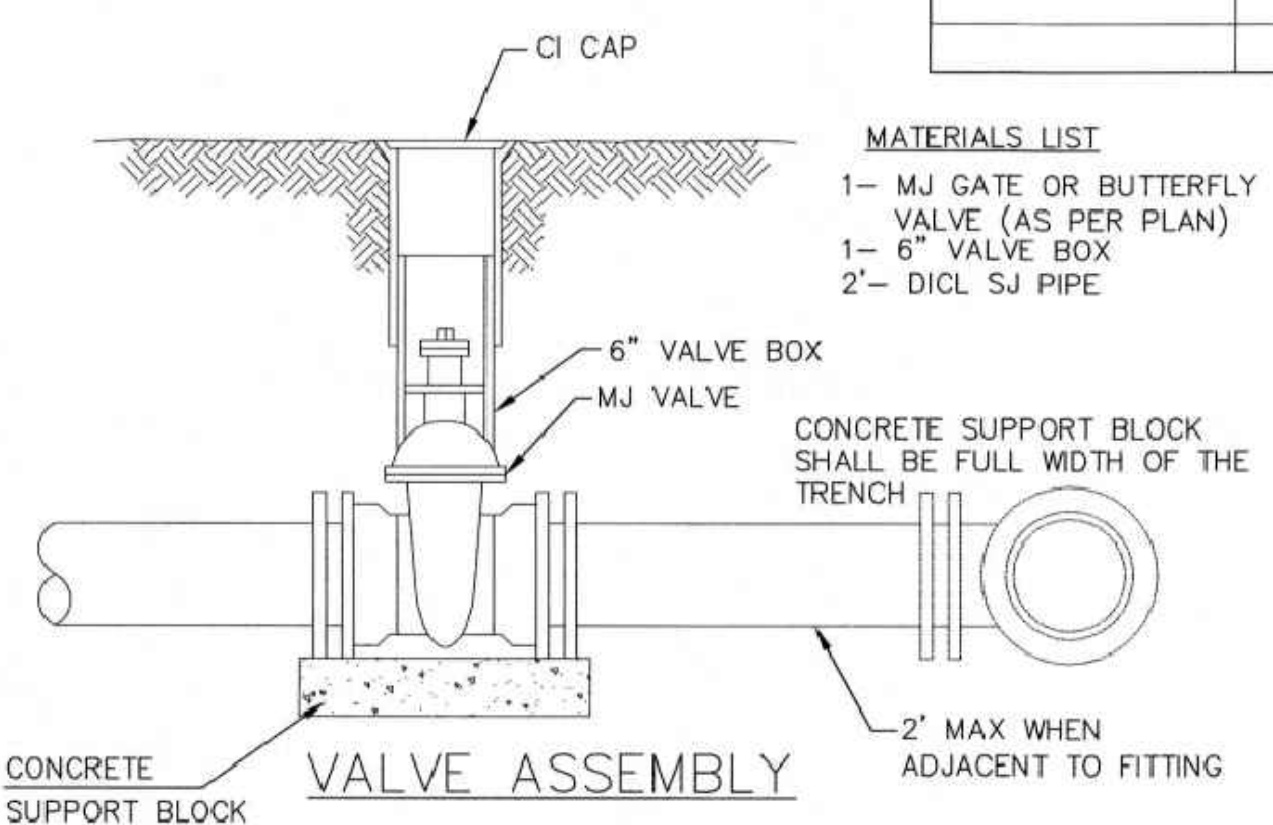
FIRE HYDRANTS REQUIRED				
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*
0+00.00	1342.20	1338.35	4.5'	-



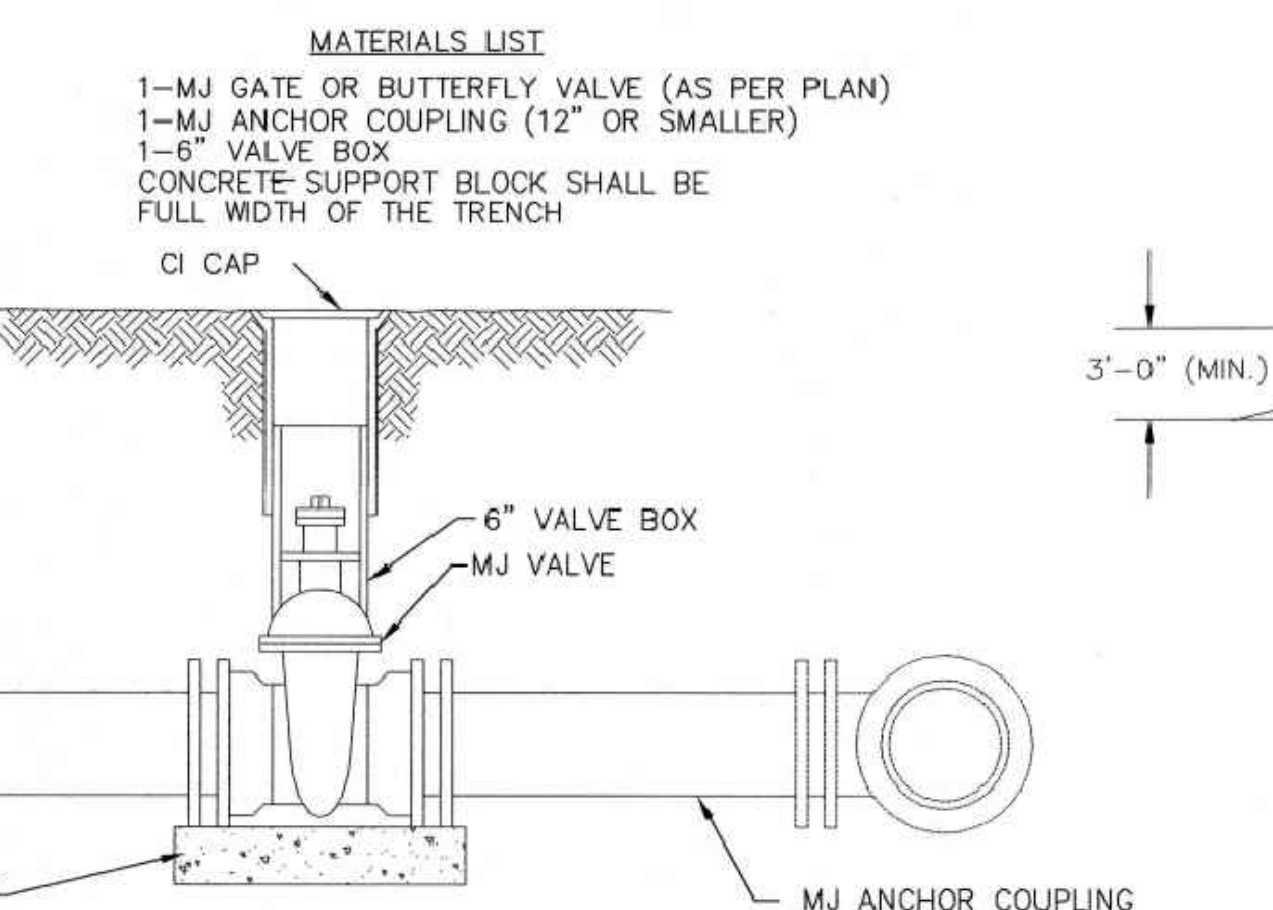
NOTES

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

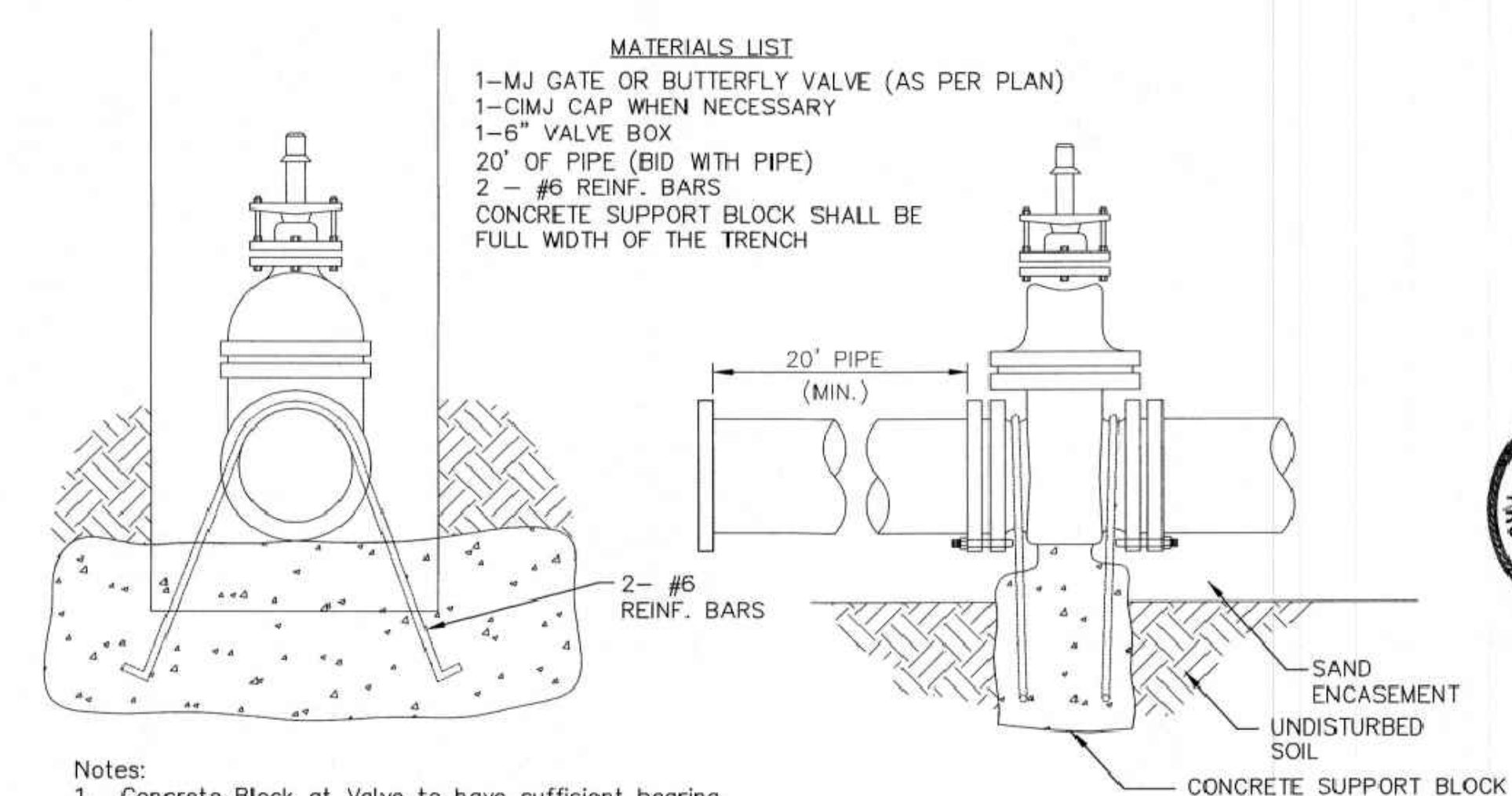
CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



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



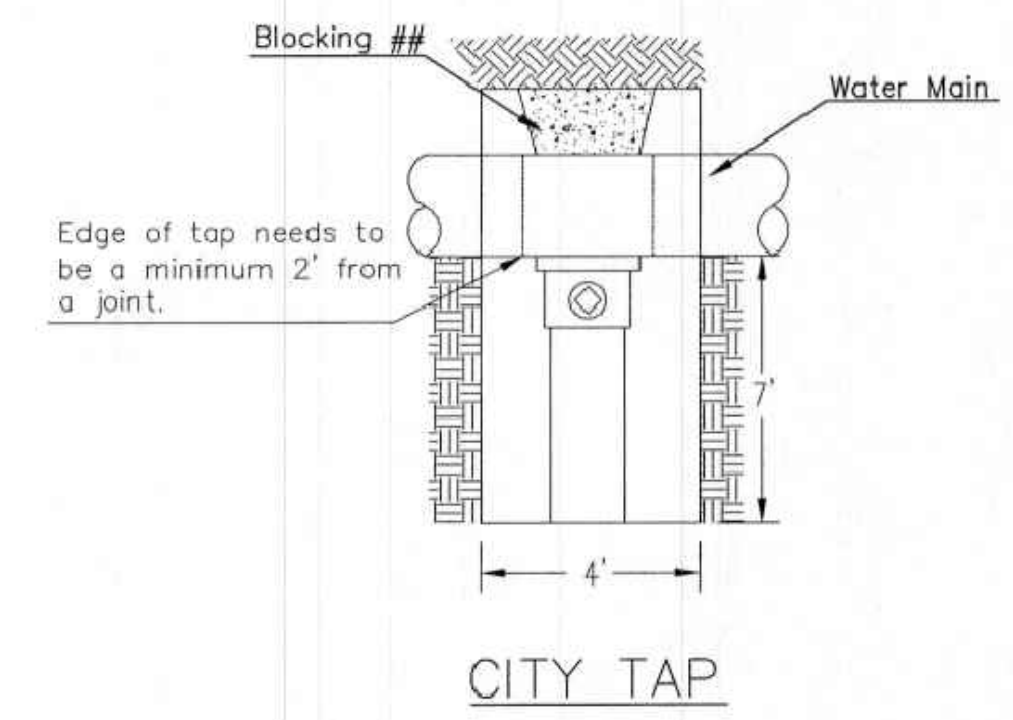
ANCHORED VALVE ASSEMBLY, SPECIAL



- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1- CIMJ CAP WHEN NECESSARY
 - 1- 6" VALVE BOX
 - 20' OF PIPE (BID WITH PIPE)
 - 2 - #6 REINF. BARS
 - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

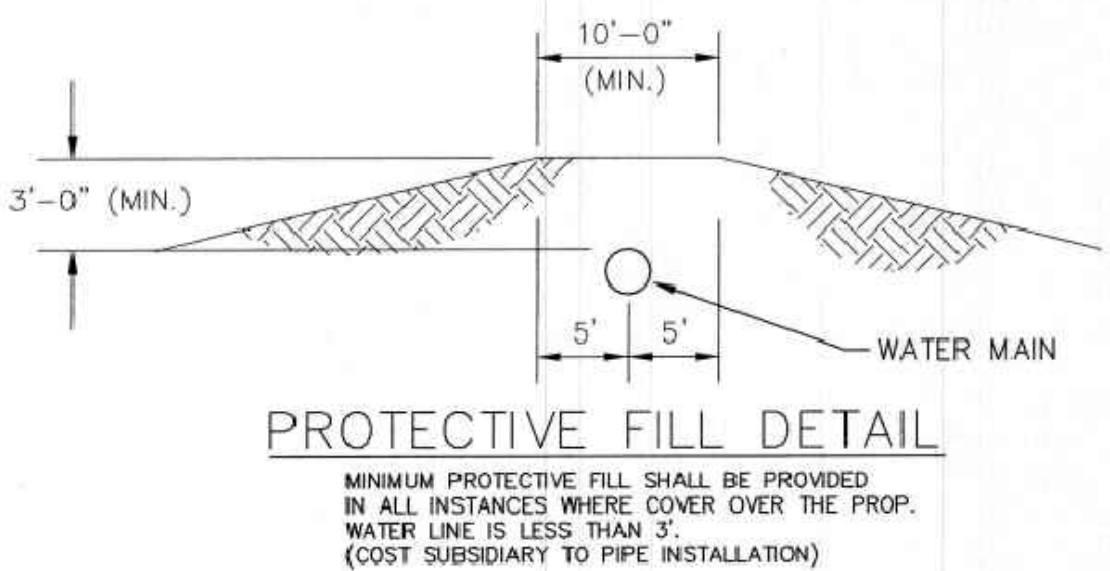
- Notes:**
- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
 - The thrust block shall be constructed such that bolts, nuts, and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

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



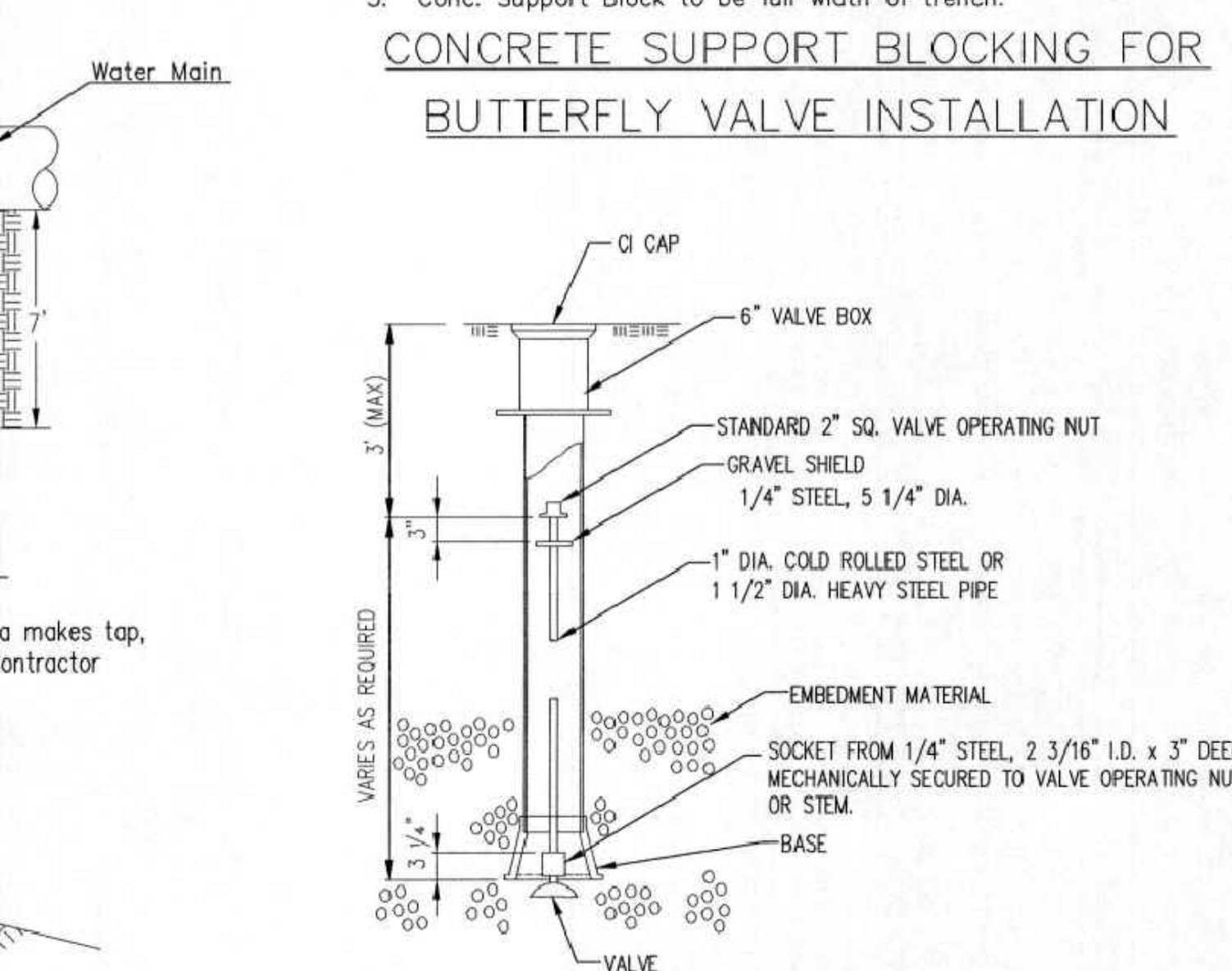
CITY TAP

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



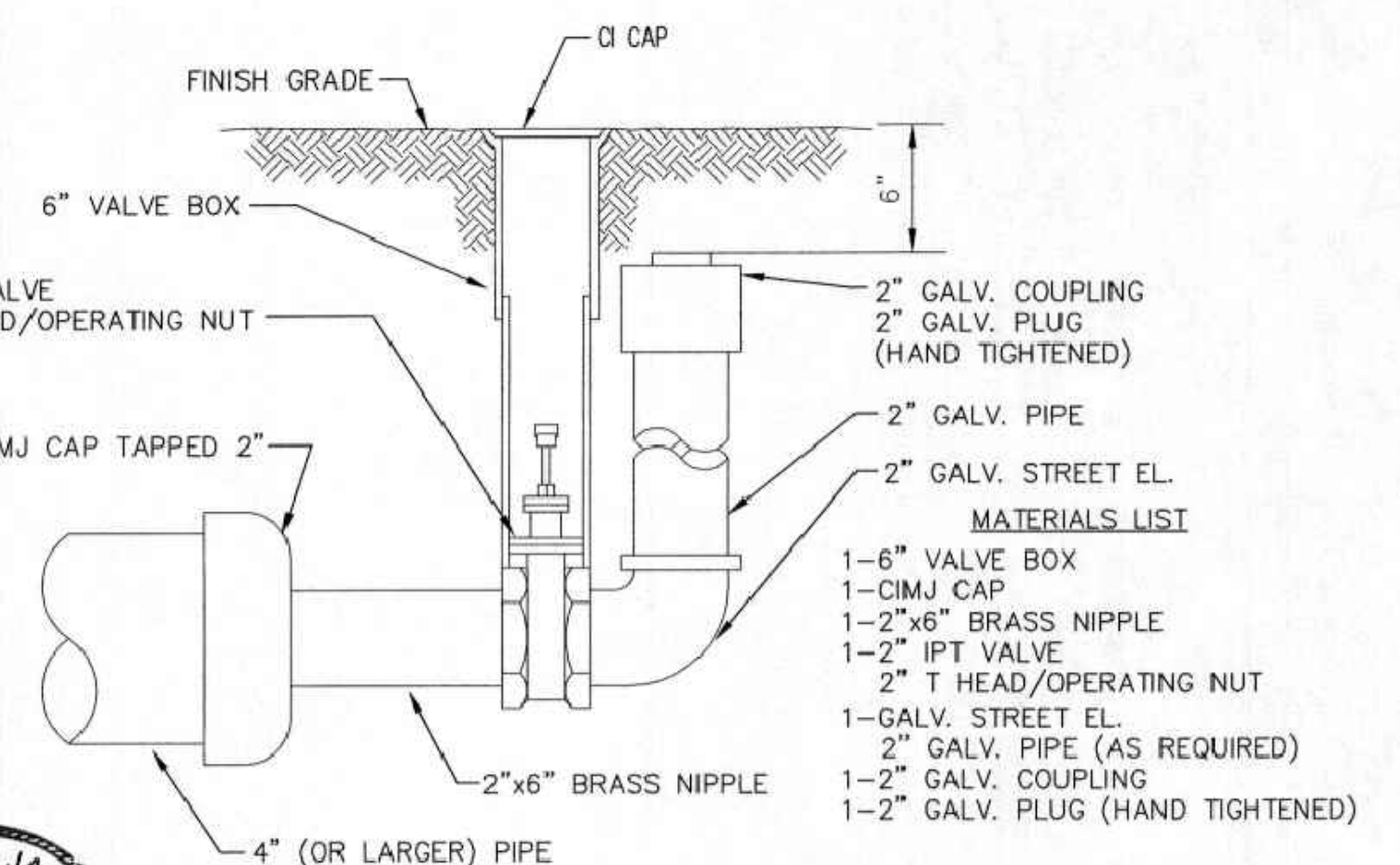
PROTECTIVE FILL DETAIL

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



VALVE STEM EXTENSION DETAIL

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



2" BLOWOFF ASSEMBLY



STANDARD WATER ASSEMBLY DETAIL

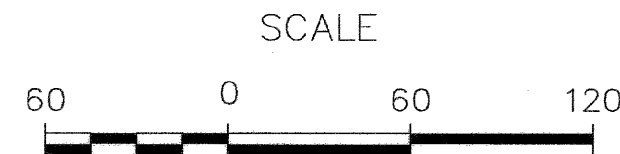
CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER: OCA NUMBER: DATE:

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

SHEET
4 of 11

REVISED: OCTOBER 2016



LEGEND

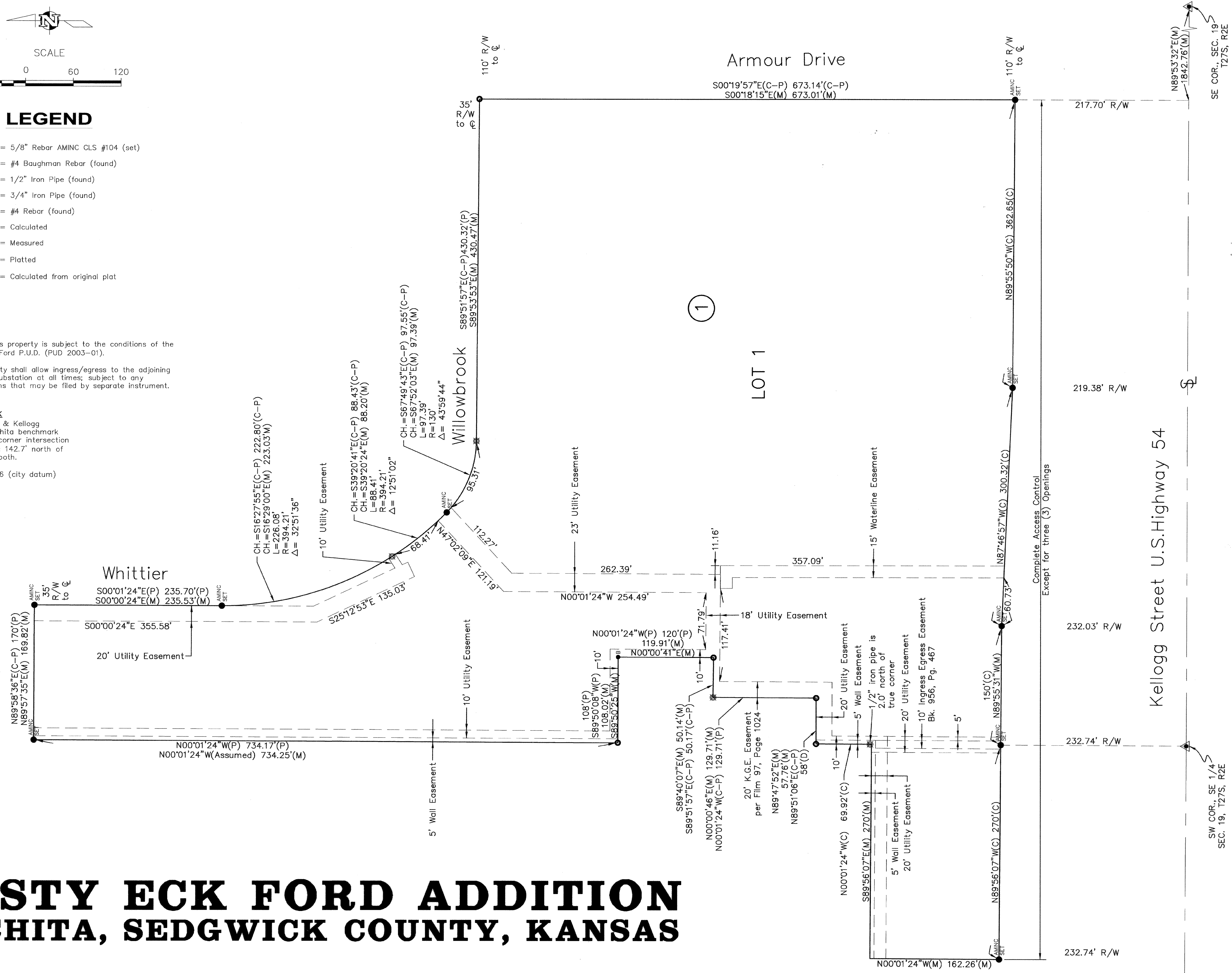
- AMINC SET = 5/8" Rebar AMINC CLS #104 (set)
- B = #4 Baughman Rebar (found)
- ⊗ = 1/2" Iron Pipe (found)
- = 3/4" Iron Pipe (found)
- = #4 Rebar (found)
- (C) = Calculated
- (M) = Measured
- (P) = Platted
- (C-P) = Calculated from original plat

NOTES: This property is subject to the conditions of the Rusty Eck Ford P.U.D. (PUD 2003-01).

This property shall allow ingress/egress to the adjoining electrical substation at all times; subject to any modifications that may be filed by separate instrument.

BENCHMARK
Rock Road & Kellogg
City of Wichita benchmark
northeast corner intersection
54' east & 142.7' north of
centerline both.

Elev. 166.26 (city datum)



RUSTY ECK FORD ADDITION WICHITA, SEDGWICK COUNTY, KANSAS

SHEET 2 OF 2

AM CONSULTING, INC.
ENGINEERING SERVICES
142 N. Emporia Wichita, KS 67202
316/265-2870 fax: 316/265-2839

Baughman Company, P.A.
Baughman
Professional Engineer
142 N. Emporia, Wichita, KS 67202
316/265-2870

RUSTY ECK QUICK LANE ADDITION
COPY OF PLAT
WATER DISTRIBUTION SYSTEM