

# GENERAL NOTES:

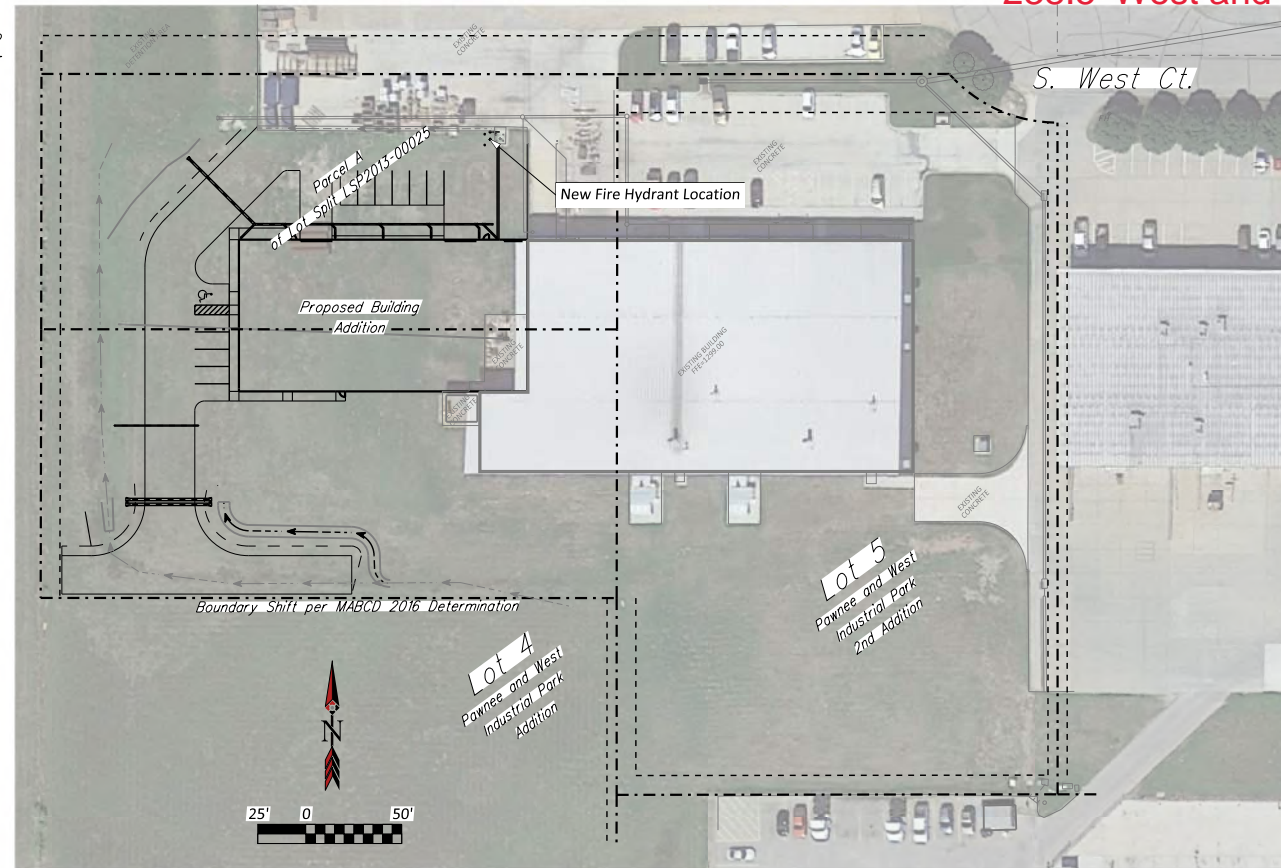
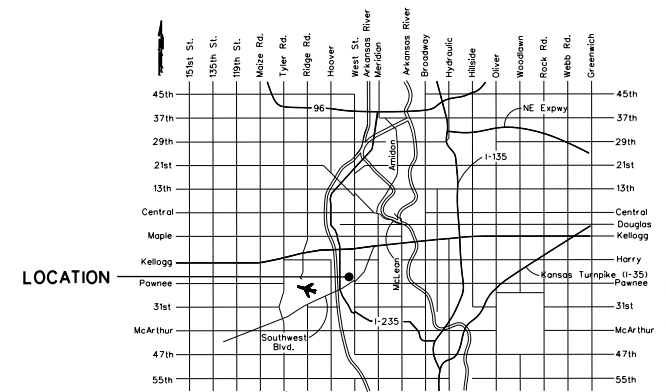
- The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.
- Contractor will be required to provide notice to utility companies a minimum of seventy-two (72) hours prior to any excavation, as follows:  
 Kansas One-Call 687-2470  
 The Contractor must notify the following in case of an emergency:  
 AT&T 1-800-246-8464  
 Black Hills Energy 1-800-694-8989  
 City of Wichita Water 1-316-268-4555  
 City of Wichita Sewer 1-316-268-4073  
 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  
 Westar Energy 1-800-544-4857  
 Southern Star Central Gas Pipeline 1-316-303-7800
- 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 valves 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 Danwita Reinhardt with the City at 316-268-4574 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, Mike Armour at [traffic@wichita.gov](mailto: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 the 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 Contractor's responsibility.
- All elevations shown are NAVD 88.
- All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.

- 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 connections can be made on this project. 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 manufactures recommended maximum. Where deflections are greater than the maximum allowed, the contractor shall utilize CI MJ Long Sleeve or Multiple Joints.
- Any existing joint exposed during excavation shall be replaced if within four feet of proposed joint.
- Valves 12 inch 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 constructions as approved by the utility owner and the Engineer at the contractors 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 Dawnita Reinhardt with the City at 316-268-4574.
- 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.

# PRIVATE WATER DISTRIBUTION SYSTEM to serve part of **JR CUSTOM METAL PAINT BUILDING WEST ADDITION**

old American Darling (storz) old valve  
 Sigma gland packs new anchor tee  
 2241 S. West Ct. • Wichita, Kansas  
**CITY OF WICHITA, KANSAS**  
 Gary Janzen, P.E. City Engineer  
 2022-026970PPW  
 54030980

from West curb line of cul-de-sac down center line of private street 238.5' West and South 74' to fire hydrant  
 from same point of curb line 238.5' West and 72' South to valve  
 from same point of curb line 238.5' West and 70' South to tee



**AS BUILTS**

Contractor: **McCullough Excavation**  
 12/19/2022

Project Inspector: **Larry Gann**  
**KEMILLER ENGINEERING PA**  
 117 E. Lewis, Wichita, KS 67202 (316)264-0242

## Benchmarks

BM \*1 - NGS Reference Mark Disk stamped "Kellogg No. 1 1972" in the Southwest wing wall of North bound I-235 Bridge over abandoned railroad. Elevation:1339.67 NAVD88  
 BM \*2 Chiseled "v cut" on concrete pavement at the center of drive 75 feet south of the center of the Cul-de-sac at the west end of West Street Court. Elevation:1298.16 NAVD88

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

Engineering Shawn Mellies 09/27/2022  
 Utilities Greg Lolley 09/27/2022  
 Fire Dept. Jose Ocadiz 09/27/2022

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 or Wichita Specifications and Standards and Special Provision (on file and available in the City 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.

## Sheet Index

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| C2.0      | Site Plan                       |
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| C5.1      | Standard Water Assembly Details |
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| C6.1-C6.5 | Erosion Control Details         |



| Issue | Date       | By  | Description              |
|-------|------------|-----|--------------------------|
| 0     | 08/18/2022 | LBC | Submitted for PPW Review |
| 1     | 09/21/2022 | LBC | Addressed Comments       |

Drawn By: LBC  
 Checked By: LBC  
 Date: 09/21/2022  
 Issue No. 1

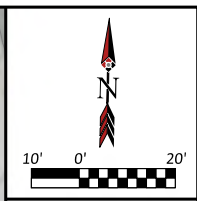
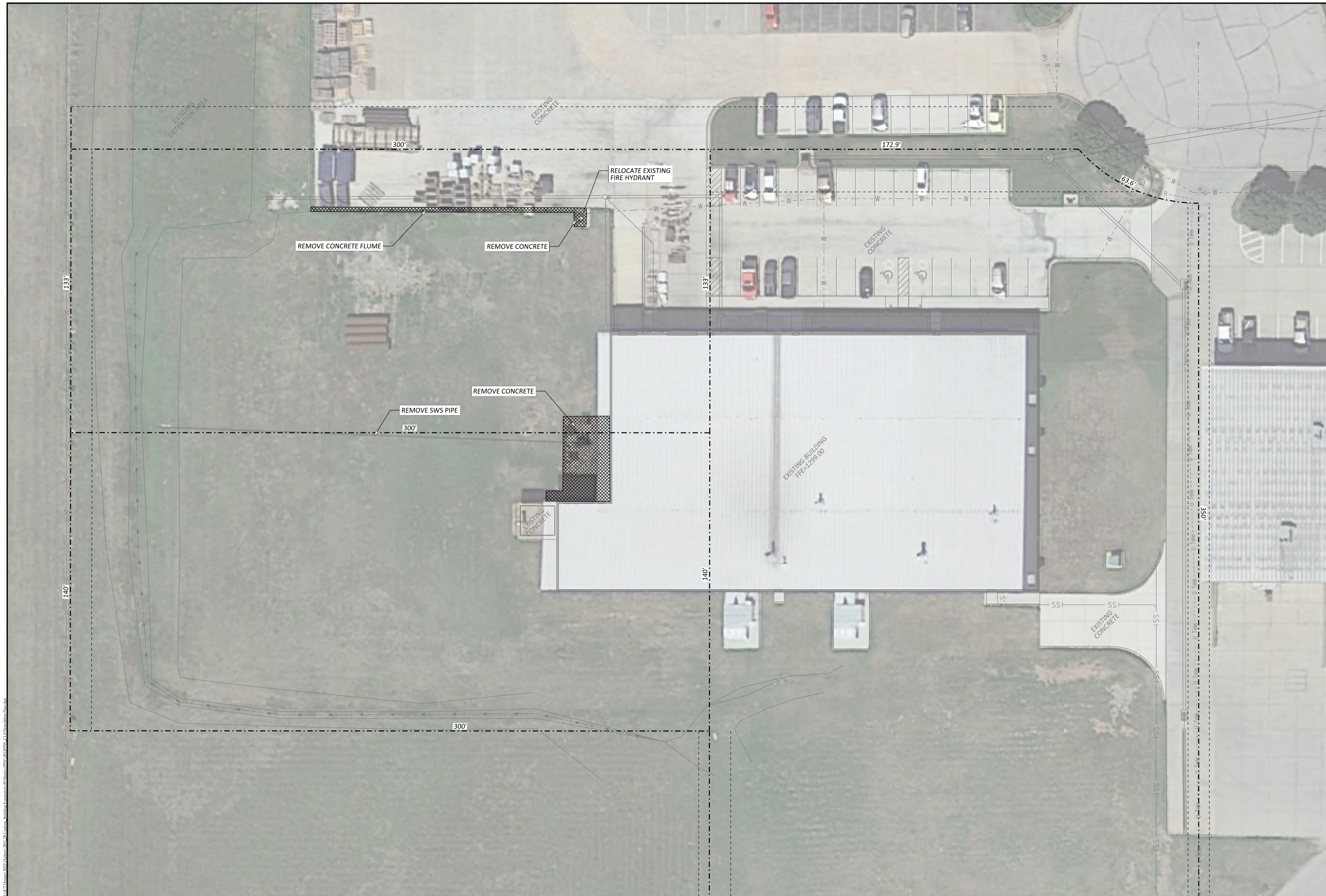


Client: **JR Custom Metal Products, Inc.**  
 2241 S. West Ct.  
 Wichita, KS 67213  
 Phone (316) 263-1318

PAINT BUILDING WEST ADDITION  
**PPW TITLE SHEET**  
 WICHITA, KANSAS

Sheet No. **C0.0**  
 Project No. **2812**

SEPTEMBER  
 2022



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|-------------|-----|------------|------------|
| Drawn By:   | LBC | Date:      | 09/21/2022 |
| Checked By: | LBC | Issue No.: | 1          |





Client:  
**JR Custom Metal Products, Inc.**  
 2241 S. West Ct.  
 Wichita, KS 67213  
 Phone (316) 263-1318

PAINT BUILDING WEST ADDITION  
**DEMOLITION PLAN**  
 WICHITA, KANSAS

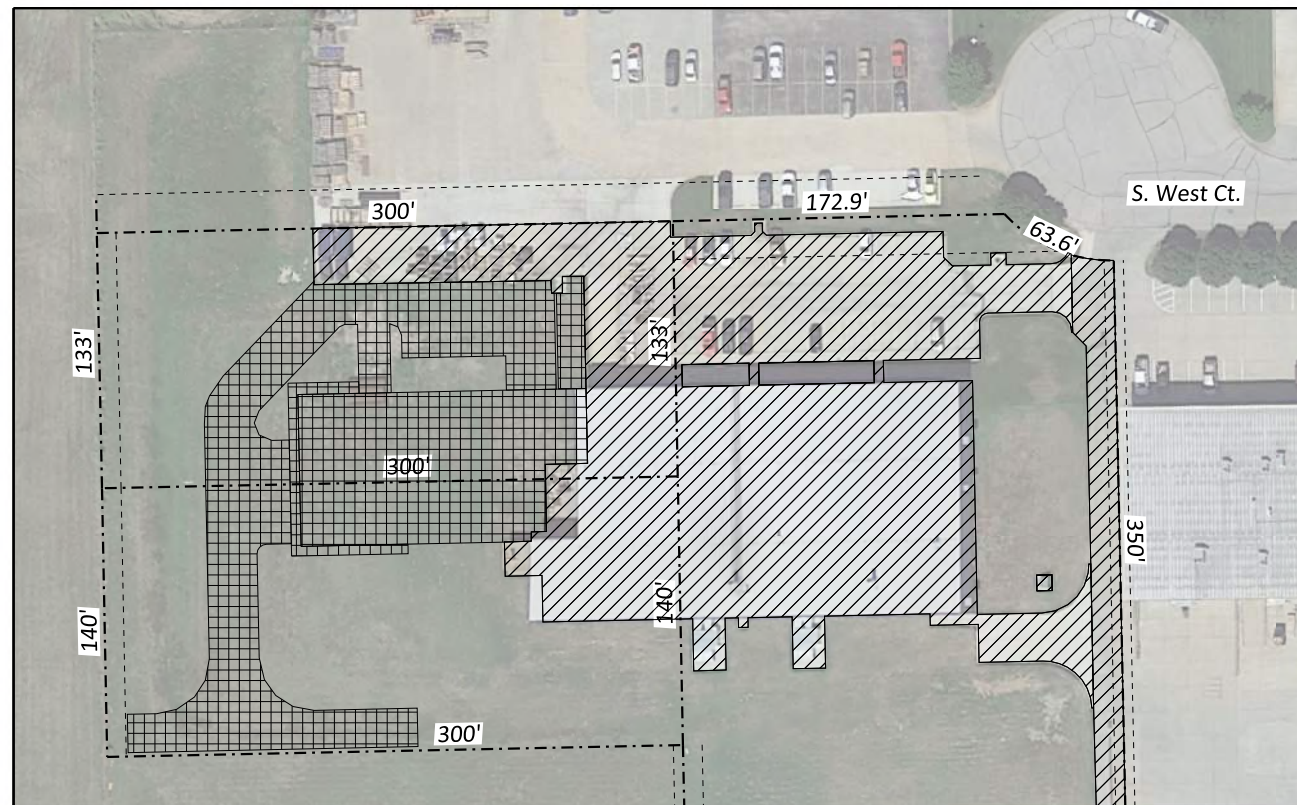
Sheet No.  
**C1.0**  
 Project No.  
**2812**

ALUCI Design, 2022. Human, 2022. JRCustom\_Metal\_Products\_Building\_Addition\_PPW\_2812.dwg - C1 - Demolition Plan.dwg

 Existing Impervious Area  
 Proposed Impervious Area



**PRE-CONSTRUCTION**



**POST-CONSTRUCTION**

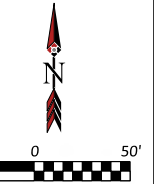
**Site Information**

Pre-Construction Impervious Area = 1.25 AC  
 Pre-Construction Pervious Area = 2.58 AC

Post-Construction Impervious Area = 1.89 AC  
 Post-Construction Pervious Area = 1.95 AC

Additional Impervious Area = 0.64 AC  
 Impervious Area Removed = 0 AC

Total Disturbed Area = 0.94 AC



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Client:  
**JR Custom Metal Products, Inc.**  
 2241 S. West Ct.  
 Wichita, KS 67213  
 Phone (316) 263-1318

PAINT BUILDING WEST ADDITION

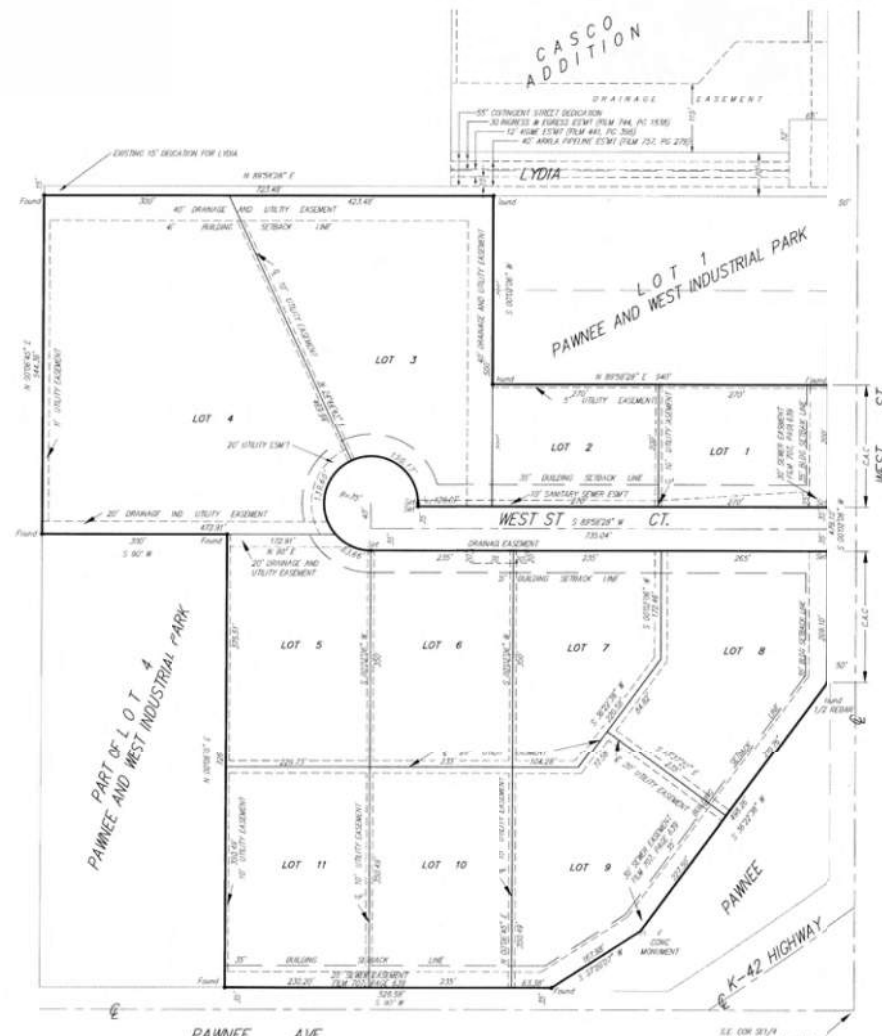
**ERU PLAN**

WICHITA, KANSAS

Sheet No.  
**C1.1**  
 Project No.  
**2812**

# PAWNEE AND WEST INDUSTRIAL PARK SECOND ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



State of Kansas) SS  
Sedgwick County)

We, Savoy, Ruggles & Bohm, P.A. Surveyors in aforesaid county and state do hereby certify that, under the supervision of the undersigned, we have surveyed and plotted "PAWNEE AND WEST INDUSTRIAL PARK SECOND ADDITION", Wichita, Sedgwick County, Kansas and that the accompanying plot is a true and correct exhibit of the property surveyed, described as

All of Lots 2, 3 and 4, except the south 726 feet of said Lot 4, Pawnee and West Industrial Park, Wichita, Sedgwick County, Kansas.

All being situated in the SE1/4, Sec. 35, Twp. 27-S, R-1-W of the 6th P.M., Sedgwick County, Kansas.

Existing public easements and dedications being vacated by virtue of RCM 12-314(b).

Date: 23 Mar 1995

Savoy, Ruggles & Bohm, P.A.  
Mark A. Savoy, Surveyor  
L.S. #788

Know all men by these presents that we, the undersigned, have caused the land described in the surveyors certificate to be platted into Lots and Streets to be known as "PAWNEE AND WEST INDUSTRIAL PARK SECOND 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 sanitary sewer easement is hereby granted as indicated for the construction and maintenance of sanitary sewer. Access controls are hereby granted as indicated on the face of the plot to the appropriate governing body with the location of the openings being subject to the approval of the Engineer of the appropriate governing body.

#1449245

John Dugan, Marilyn Dugan  
Notary Public  
Yvonne Steadham

State of Kansas) SS  
Sedgwick County)

This plat approved and all dedications shown hereon, accepted by the City Council of the City of Wichita, Kansas, this 18th day of APRIL, 1995.

John M. Kelly, Jr., Chairman  
John M. Kelly, Jr.  
Marvin S. Krout, Secretary  
Marvin S. Krout

Pat Burnett, City Clerk  
Pat Burnett

Ed Resa, Deputy  
Ed Resa

Pat Kettler, Register of Deeds  
Pat Kettler

Ed Resa, Deputy  
Ed Resa

Yvonne Steadham, Notary Public  
Yvonne Steadham

SRB 224 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 316-264-8001  
SAVOY, RUGGLES & BOHM, P.A. ENGINEERING & SURVEYING

SRB  
1" = 100'  
• 1/2" Plot w/500' Cont. Set  
• 1/2" Plot w/500' Cont. Found  
C.L.C. = Complete Aerial Control

This digital plat record accurately reproduces in all details the original plat filed with the Sedgwick County Register of Deeds. Digitized under the supervision of Register of Deeds Bill Meek by Sedgwick County Geographic Information Systems.

Bill Meek, Register of Deeds  
Digitized version of original signature

| Issue | Date       | By  | Description              |
|-------|------------|-----|--------------------------|
| 0     | 08/18/2022 | LBC | Submitted for PPW Review |
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Checked By: LBC  
Date: 09/21/2022  
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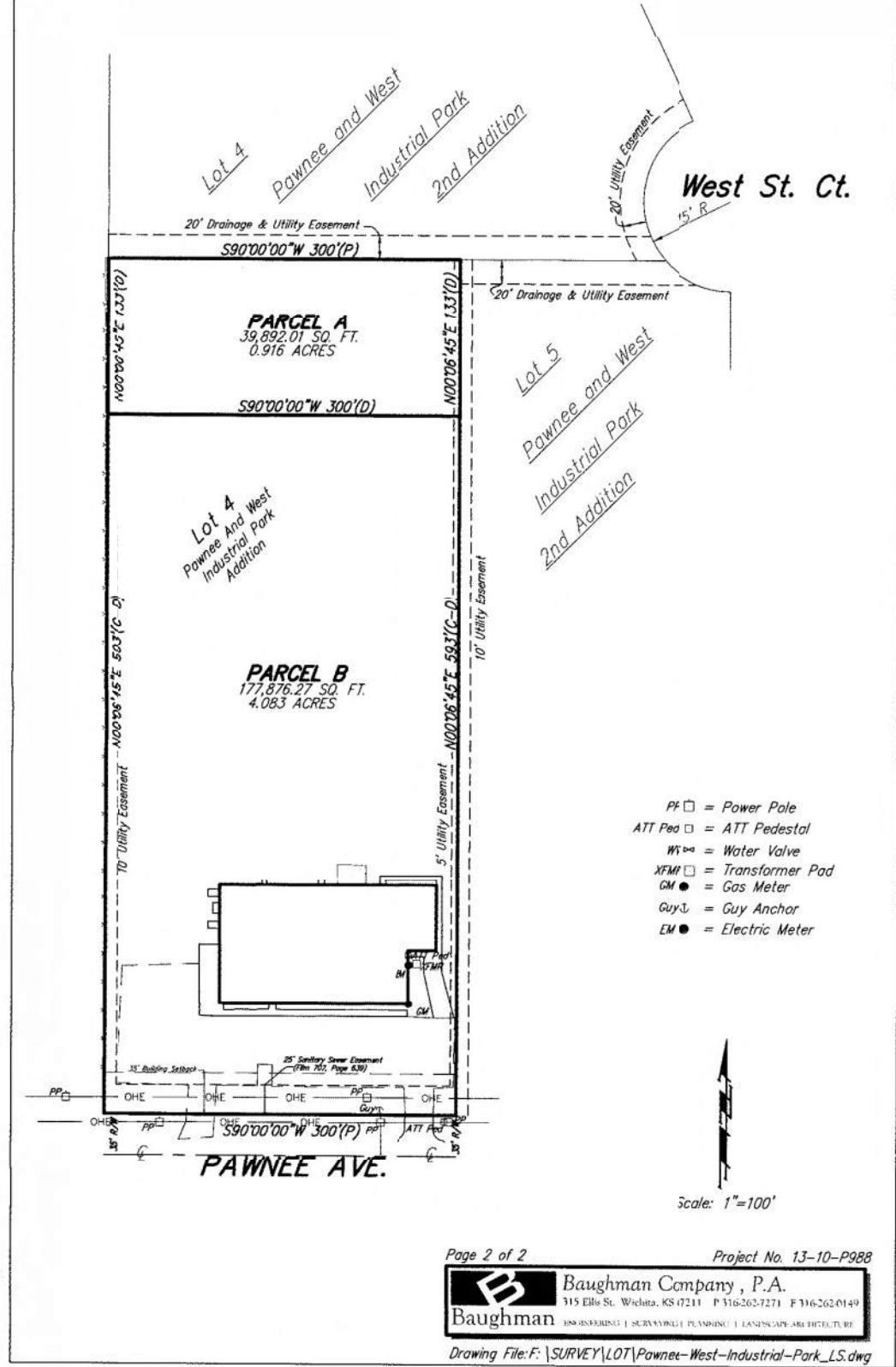
Client: JR Custom Metal Products, Inc.  
2241 S. West Ct.  
Wichita, KS 67213  
Phone (316) 263-1318

PAINTE BUILDING WEST ADDITION  
PLAT  
WICHITA, KANSAS

Sheet No. C1.2  
Project No. 2812

000029419575

# Lot Split



Page 2 of 2 Project No. 13-10-P988  
**Baughman Company, P.A.**  
 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149  
**Baughman** ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE  
 Drawing File: F:\SURVEY\LOT\Pawnee-West-Industrial-Park\_LS.dwg

Sedgwick County  
 Register of Deeds - Bill Meek  
 DOC.#/FLM-PG: 29419575  
 Receipt #: 1878356  
 Pages Recorded: 2  
 Cashier Initials: RF  
 Recording Fee: \$12.00  
 Authorized By: *[Signature]*  
 Date Recorded: 11/18/2013 1:34:18 PM



# Lot Split

### Parcel A:

The north 33.00 feet of the south 726.00 feet of Lot 4, Pawnee and West Industrial Park, Wichita, Sedgwick County, Kansas.

### Parcel B:

The south 726.00 feet of Lot 4, Pawnee and West Industrial Park, Wichita, Sedgwick County, Kansas, EXCEPT the north 133.00 feet thereof.

Sedgwick County ) ss L/S No. LSP2013-00025  
 State of Kansas ) Copy 1 of 2

I, John L. Schlegel, Director of Planning, Wichita-Sedgwick County Metropolitan Area Planning Department, do hereby certify under the Authority granted in the Subdivision Rules and Regulations that the lot split to which this stamp affixed has been approved.

Given under my hand and seal, this 13<sup>th</sup> day of NOVEMBER, 2013

*[Signature]*  
 John L. Schlegel



Page 1 of 2 Project No. 13-10-P988  
**Baughman Company, P.A.**  
 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149  
**Baughman** ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE  
 Drawing File: F:\SURVEY\LOT\Pawnee-West-Industrial-Park\_LS.dwg

*Baughman Company, P.A.*  
 315 Ellis  
 Wichita, KS 67211

cc  
 1200

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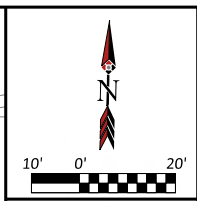
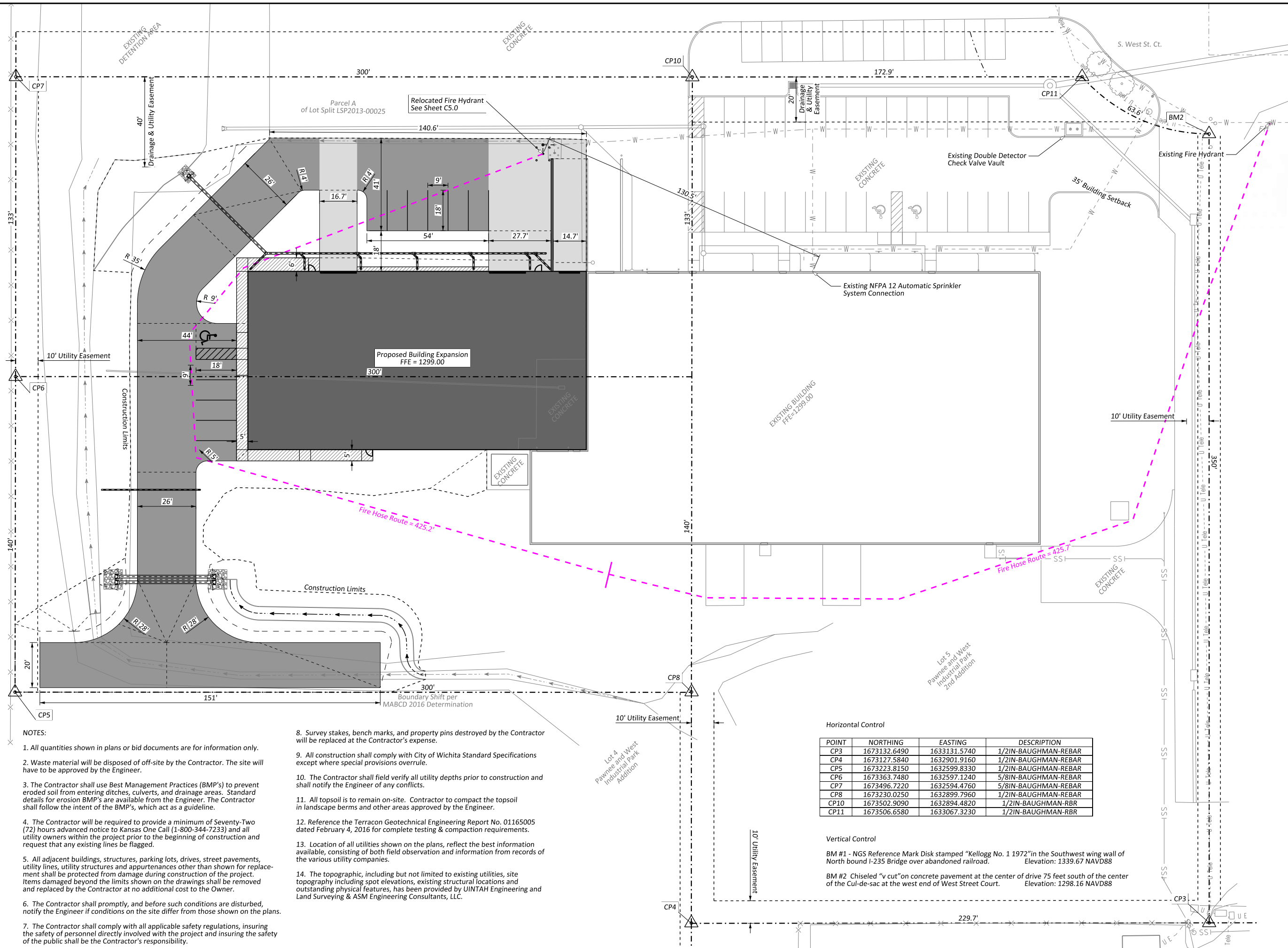
Drawn By: LBC Date: 09/21/2022  
 Checked By: LBC Issue No. 1



Client: **JR Custom Metal Products, Inc.**  
 2241 S. West Ct.  
 Wichita, KS 67213  
 Phone (316) 263-1318

PAINT BUILDING WEST ADDITION  
 LOT SPLIT  
 WICHITA, KANSAS

Sheet No. **C1.3**  
 Project No. **2812**



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Client:  
**JR Custom Metal Products, Inc.**  
 2241 S. West Ct.  
 Wichita, KS 67213  
 Phone (316) 263-1318

PAINT BUILDING WEST ADDITION  
**SITE PLAN**  
 WICHITA, KANSAS

Sheet No.  
**C2.0**

Project No.  
**2812**

**NOTES:**

- All quantities shown in plans or bid documents are for information only.
- Waste material will be disposed of off-site by the Contractor. The site will have to be approved by the Engineer.
- The Contractor shall use Best Management Practices (BMP's) to prevent eroded soil from entering ditches, culverts, and drainage areas. Standard details for erosion BMP's are available from the Engineer. The Contractor shall follow the intent of the BMP's, which act as a guideline.
- The Contractor will be required to provide a minimum of Seventy-Two (72) hours advanced notice to Kansas One Call (1-800-344-7233) and all utility owners within the project prior to the beginning of construction and request that any existing lines be flagged.
- All adjacent buildings, structures, parking lots, drives, street pavements, utility lines, utility structures and appurtenances other than shown for replacement shall be protected from damage during construction of the project. Items damaged beyond the limits shown on the drawings shall be removed and replaced by the Contractor at no additional cost to the Owner.
- The Contractor shall promptly, and before such conditions are disturbed, notify the Engineer if conditions on the site differ from those shown on the plans.
- The Contractor shall comply with all applicable safety regulations, insuring the safety of personnel directly involved with the project and insuring the safety of the public shall be the Contractor's responsibility.

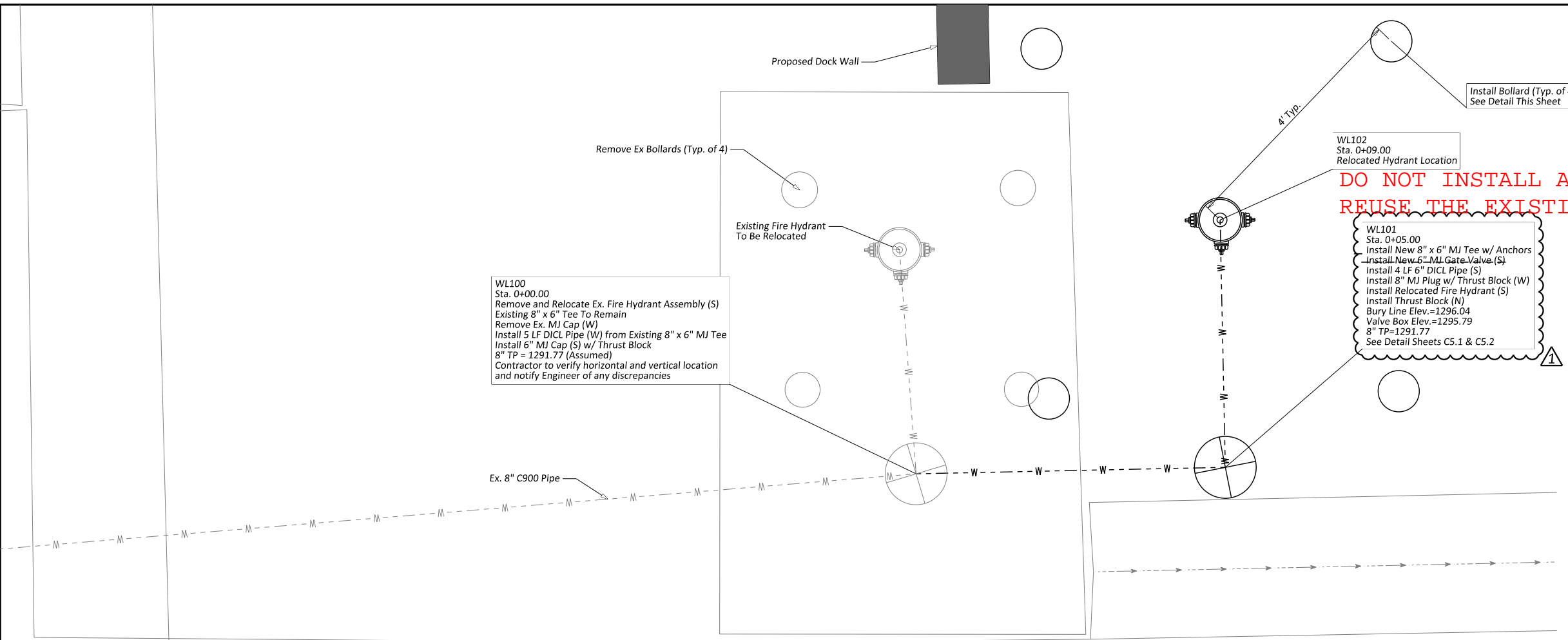
- Survey stakes, bench marks, and property pins destroyed by the Contractor will be replaced at the Contractor's expense.
- All construction shall comply with City of Wichita Standard Specifications except where special provisions overrule.
- The Contractor shall field verify all utility depths prior to construction and shall notify the Engineer of any conflicts.
- All topsoil is to remain on-site. Contractor to compact the topsoil in landscape berms and other areas approved by the Engineer.
- Reference the Terracon Geotechnical Engineering Report No. 01165005 dated February 4, 2016 for complete testing & compaction requirements.
- Location of all utilities shown on the plans, reflect the best information available, consisting of both field observation and information from records of the various utility companies.
- The topographic, including but not limited to existing utilities, site topography including spot elevations, existing structural locations and outstanding physical features, has been provided by UINTAH Engineering and Land Surveying & ASM Engineering Consultants, LLC.

**Horizontal Control**

| POINT | NORTHING     | EASTING      | DESCRIPTION          |
|-------|--------------|--------------|----------------------|
| CP3   | 1673132.6490 | 1633131.5740 | 1/2IN-BAUGHMAN-REBAR |
| CP4   | 1673127.5840 | 1632901.9160 | 1/2IN-BAUGHMAN-REBAR |
| CP5   | 1673223.8150 | 1632599.8330 | 1/2IN-BAUGHMAN-REBAR |
| CP6   | 1673363.7480 | 1632597.1240 | 5/8IN-BAUGHMAN-REBAR |
| CP7   | 1673496.7220 | 1632594.4760 | 5/8IN-BAUGHMAN-REBAR |
| CP8   | 1673230.0250 | 1632899.7960 | 1/2IN-BAUGHMAN-REBAR |
| CP10  | 1673502.9090 | 1632894.4820 | 1/2IN-BAUGHMAN-RBR   |
| CP11  | 1673506.6580 | 1633067.3230 | 1/2IN-BAUGHMAN-RBR   |

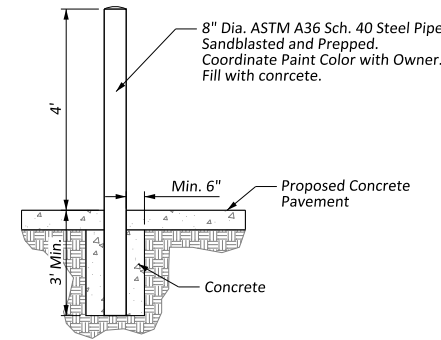
**Vertical Control**

- BM #1 - NGS Reference Mark Disk stamped "Kellogg No. 1 1972" in the Southwest wing wall of North bound I-235 Bridge over abandoned railroad. Elevation: 1339.67 NAVD88
- BM #2 Chiseled "v cut" on concrete pavement at the center of drive 75 feet south of the center of the Cul-de-sac at the west end of West Street Court. Elevation: 1298.16 NAVD88



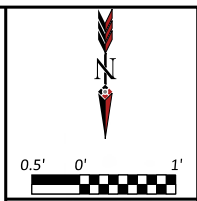
**WATERLINE STAKING**

| Point | Northing     | Easting      | Station |
|-------|--------------|--------------|---------|
| WL100 | 1673471.5373 | 1632833.8251 | 0+00.00 |
| WL101 | 1673471.4322 | 1632828.8262 | 0+05.00 |
| WL102 | 1673467.4331 | 1632828.9102 | 0+09.00 |



**8" PIPE BOLLARD DETAIL**

**DO NOT INSTALL A NEW GATE VALVE  
REUSE THE EXISTING ONE - PER RYAN BARRETT**

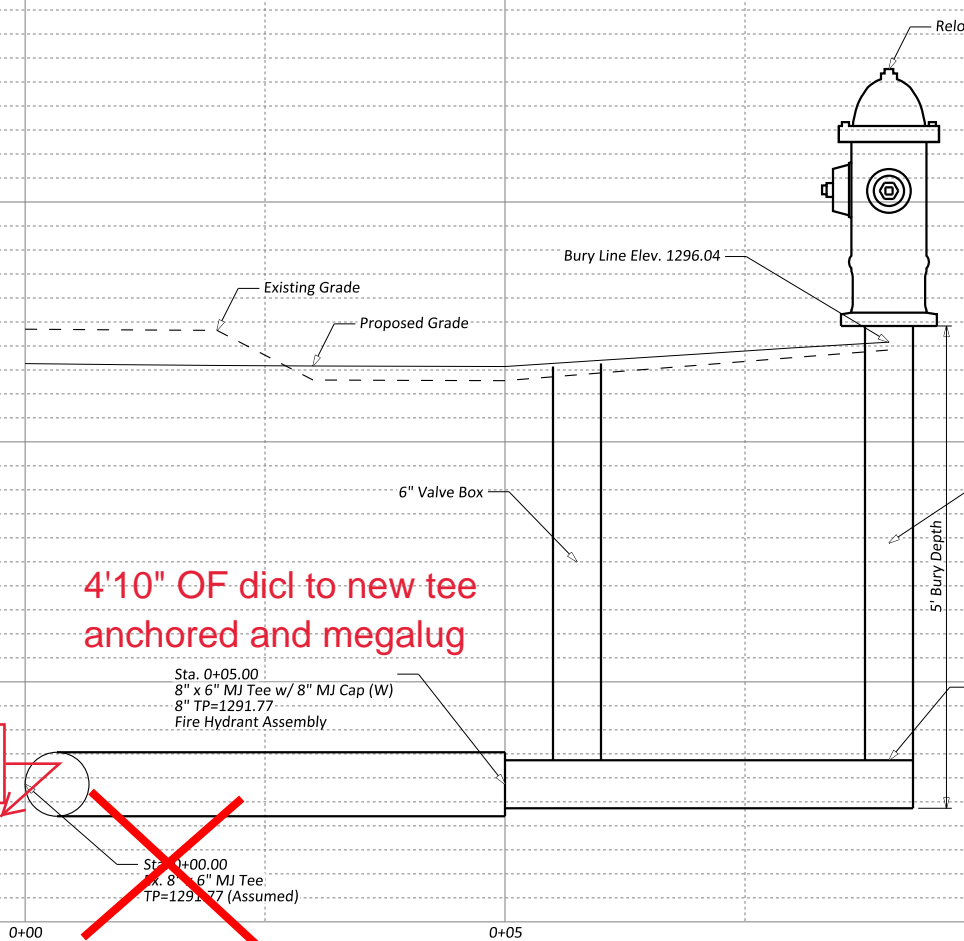


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 Checked By: LBC  
 Date: 09/21/2022  
 Issue No. 1

**AS BUILTS**

117 E. Lewis,  
Wichita, KS 67202  
(316)264-0242



**old valve 4' of DICL old American Darling (storz) fire hyd.**

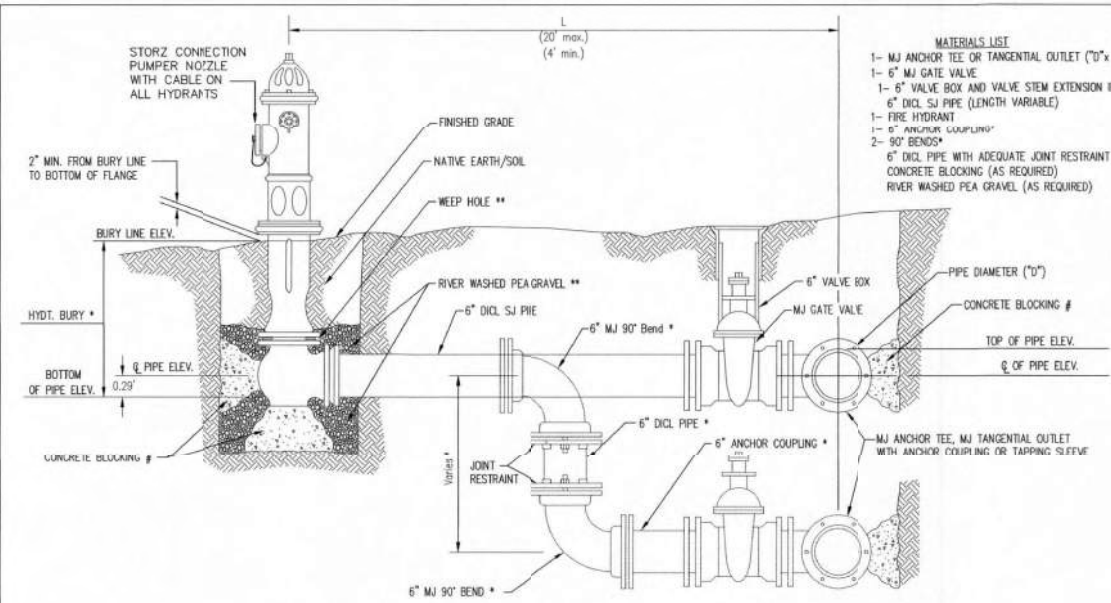
**LONG SLEEVE  
MEGALUG**



Client: **JR Custom Metal Products, Inc.**  
2241 S. West Ct.  
Wichita, KS 67213  
Phone (316) 263-1318

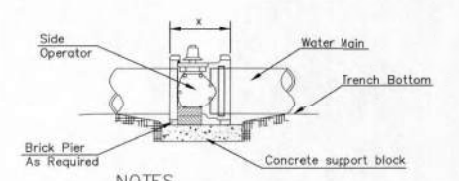
PAINT BUILDING WEST ADDITION  
**FIRELINE 1 PLAN & PROFILE**  
WICHITA, KANSAS

Sheet No. **C5.0**  
Project No. **2812**



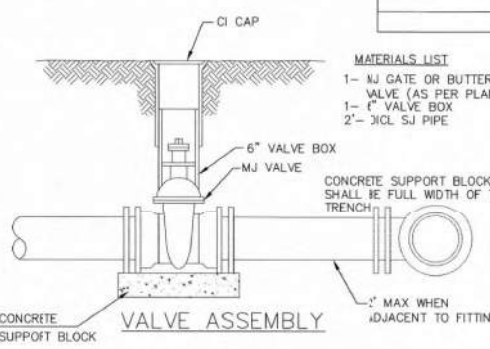
- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET (10" x 6")
  - 1- 6" MJ GATE VALVE
  - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED \*
  - 6" DI. SJ PIPE (LENGTH VARIABLE)
  - 1- FIRE HYDRANT
  - 1- 6" ANCHOR COUPLING
  - 2- 90° BENDS \*
  - 6" DI. PIPE WITH ADEQUATE JOINT RESTRAINT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

| FIRE HYDRANTS REQUIRED |                     |                       |                             |                                |
|------------------------|---------------------|-----------------------|-----------------------------|--------------------------------|
| STATION                | BURY LINE ELEVATION | TOP OF PIPE ELEVATION | FIRE HYDRANT BURY REQUIRED* | VALVE STEM EXT. REQUIRED (ft)* |
| 0+5.00                 | 1296.04             | 1291.77               | 5.0'                        |                                |
|                        |                     |                       |                             |                                |
|                        |                     |                       |                             |                                |
|                        |                     |                       |                             |                                |
|                        |                     |                       |                             |                                |
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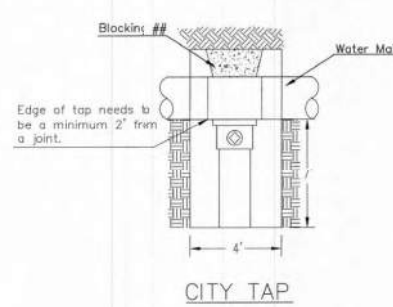


- NOTES**
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
  - 6" Valve Box and Cover required per City of Wichita Std. Specifications.
  - Conc. Support Block to be full width of trench.

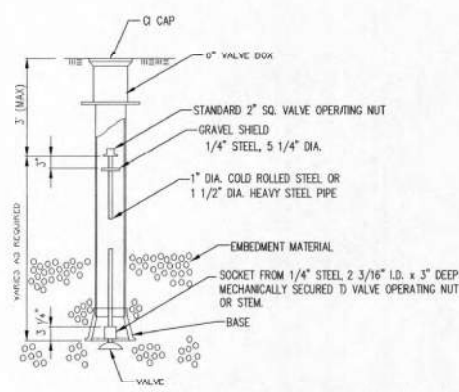
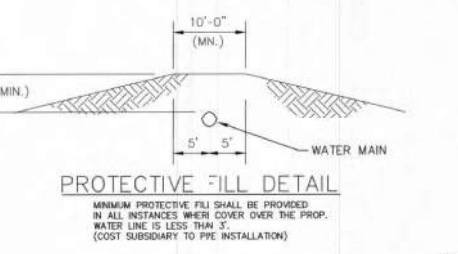
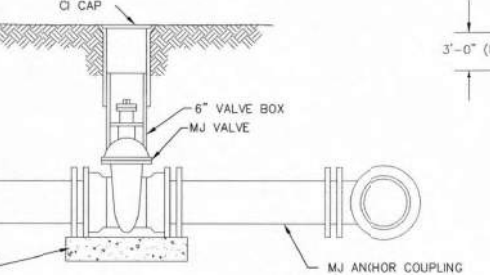
**CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION**



- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- 6" VALVE BOX
  - 2- 3/4" SJ PIPE



- 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

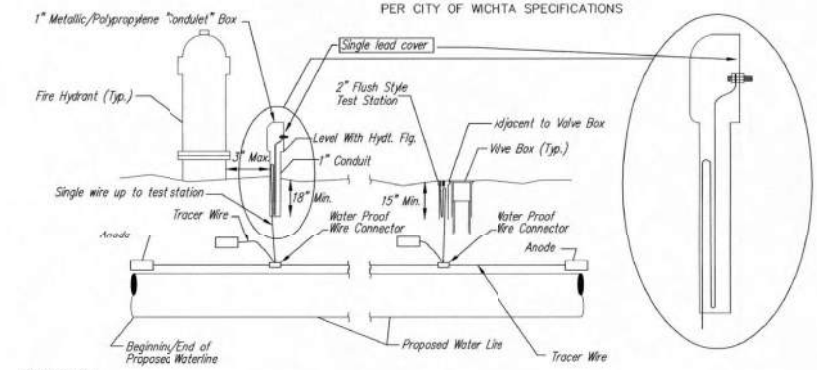


**VALVE STEM EXTENSION DETAIL**

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

- \* 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, 1- MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DI. PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEAGLUGS, 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 OR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEAGRAVEL 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](http://www.wichita.gov).

**WIRE**

The tracer wire shall be 3/16 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**

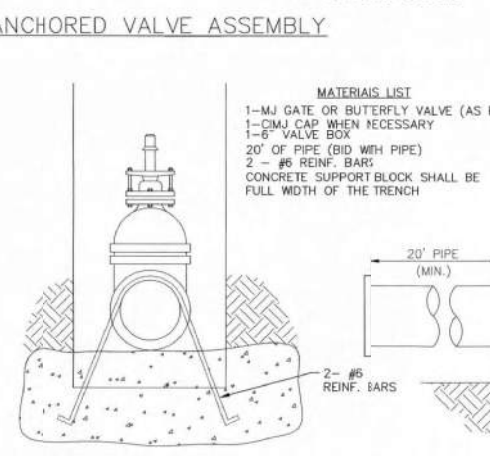
The test station for fire hydrant application shall be a 1" "conduit" style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized conduit with 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 # 12PH/7B1LP Handley Industries or W14\*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



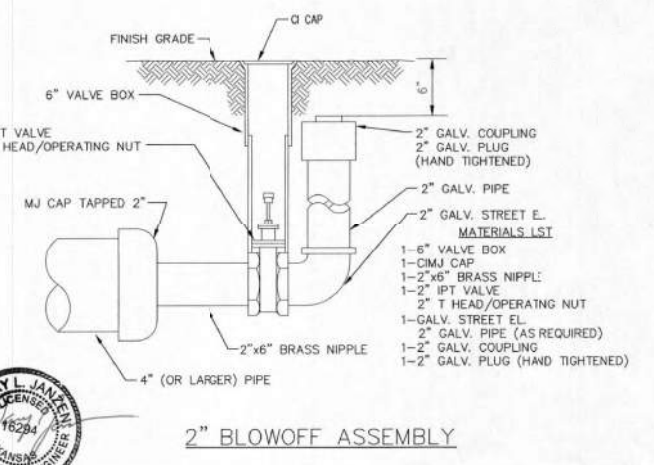
- MATERIALS LIST**
- 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
  - 1- CI MJ CAP WHEN NECESSARY
  - 1- 6" VALVE BOX
  - 20" OF PIPE (BID WITH PIPE)
  - 2- #6 REINF. BARS
  - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

**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.

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

**ANCHORED VALVE ASSEMBLY, SPECIAL**



**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

| Issue | Date       | By  | Description              |
|-------|------------|-----|--------------------------|
| 0     | 08/18/2022 | LBC | Submitted for PPW Review |
| 1     | 09/21/2022 | LBC | Addressed Comments       |

Drawn By: LBC  
Checked By: LBC  
Date: 09/21/2022  
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**JR Custom Metal Products, Inc.**  
2241 S. West Ct.  
Wichita, KS 67213  
Phone (316) 263-1318

Client: PAINT BUILDING WEST ADDITION  
**STANDARD WATER ASSEMBLY DETAILS**  
WICHITA, KANSAS

Sheet No. **C5.1**  
Project No. **2812**