

# 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	1-800-246-8464
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
Evergy	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](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 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.
- 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.
- 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.
- 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 City of Wichita. Maintenance and/or replacement of erosion control measures to be paid by L.S. bid item "Maintain Existing BMPs".
- All of 159th St. E R/W disturbed during construction and street R/W adjacent to Reserves shall be seeded and mulched as follows:
 

Seed -- Kansas Premium Fescue Blend; 8 lbs. PLS/1000 Sq. Ft.  
Annual Rye grass; 3 lbs./1000 Sq. Ft.  
Fertilizer -- 12-24-12 Ratio; 45 Lbs./Ac.  
Mulch -- 2 Tons Prairie Hay/Ac.

All other areas disturbed during construction are to be seeded as follows:

Seed -- Rye grass; 5 lbs./1000 Sq. Ft.

All costs associated with seeding including mobilization, preparation of ground, seeding, fertilizing, mulching, etc. shall be included in the L.S. bid item "Seeding".

An additional bid item for "Seeding, Temporary" has been included and may be used at the discretion of the design engineer. Temporary seed shall be Annual Rye at 5 lbs./1000 Sq. Ft. unless otherwise noted and shall be planted when permanent seed or sod cannot be used due to seasonal limitations. If the "Seeding, Temporary" bid item is not used, 100% of the pay item will be deducted from the contract. All costs associated with temporary seeding including mobilization, preparation of ground, seeding, etc., shall be included in the L.S. bid item "Seeding, Temporary".
- 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.
- The developer for this project is Spectacular Creations-Wichita, LLC, Nicholas A. Lombardi, 1516 South Boston, Suite 214, Tulsa OK 74119 918.747.7600 [nick@frisbielombardi.com](mailto:nick@frisbielombardi.com)

# AS-BUILT PLANS

## WATER DISTRIBUTION SYSTEM

to serve

# SUMMERLIN ADDITION

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer  
2022-035932 PPW  
(54030980)

Baughman Project Number: 22-09-E313

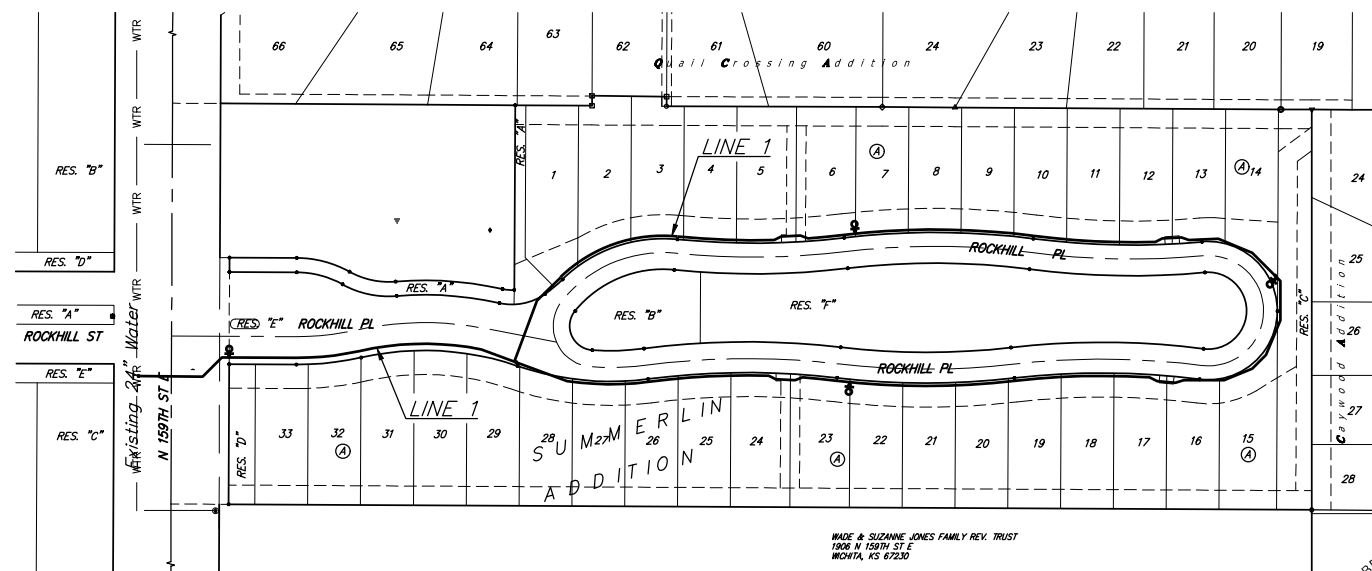
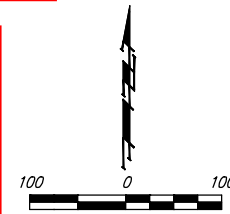
Utility Contractor = Mies Construction.  
Staking = Baughman Company, P.A.  
Inspector = Fred Smith -  
Baughman Company

Revised As-Built Plans = Larry Powell  
9-10-2024

Construction Began = May 2023

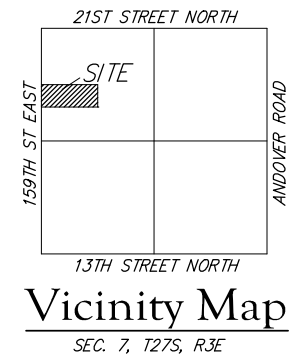
Construction End = May 2023

Fire Hydrants = CLOW  
Valves = CLOW  
Fittings = Sigma  
6" & 8" DICTL Pipe = McWane Ductile  
8" PVC Pipe = Sanderson Pipe  
8" RJPVC Pipe = Westlake



MADE & SUZANNE JONES FAMILY REV. TRUST  
1806 N 159TH ST E  
WICHITA, KS 67230

BRENT WOOTEN  
LICENSED PROFESSIONAL ENGINEER  
8470  
01/10/2023  
KANSAS



## Sheet Index

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

Engineering approved by Shawn Mellies on 01.10.23  
Utilities approved by Greg Lolley on 01.10.23  
Andover Fire Dept. \_\_\_\_\_

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 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.

January 10, 2023

**BAUGHMAN COMPANY**  
315 Ellis St. Wichita, KS 67211 316-262-7271  
BaughmanCo.com

E:\Projects\Summerlin Addition - 1509-P407-Engineering\Phase 1\WTR 22-09-E313\Water.dwg

**BENCHMARKS:**  
 BM #1: CROSS CUT IN SQUARE CUT, SE COR. OF FIRST CATCH BASIN S. OF BROWNING AS DEDICATED IN QUAIL CROSSING ADDITION, PHASE 2, ON E. SIDE OF 159TH ST. E., 27.4' W. & 277.4' N. OF THE SW COR. OF LOT 66, BLOCK 2, QUAIL CROSSING ADDITION.  
 ELEV. = 1369.19 NAVD88

BM #2: CROSS CUT IN SQUARE CUT ON TOP OF CURB, CENTER OF NOSE OF EAST END OF ISLAND IN THE ROCKHILL ST. ENTRANCE TO THE RANCH, 121.5' W. & 46.5' S. OF THE SW COR., RESERVE "A", SUMMERLIN ADDITION.  
 ELEV. = 1369.03 NAVD88

BM #3: CROSS CUT IN SQUARE CUT, SE COR. OF FIRST CATCH BASIN N. OF BASSWOOD AS DEDICATED IN CAYWOOD ADDITION, PHASE 1, ON E. SIDE OF 159TH ST. E., 37.5' W. & 488' S. OF THE SW COR., RESERVE "D", SUMMERLIN ADDITION.  
 ELEV. = 1365.26 NAVD88

**REFERENCE TIE ORIGIN:**  
 INTERSECTION OF  
 C/L N. 159TH ST. E. &  
 C/L ROCKHILL PLACE.  
 N = 1,698,341.02  
 E = 1,701,932.42

**TAP SADDLE:** 40' W. OF C/L 159th St. & 36' S. OF C/L Rockhill Place.  
**TAP VALVE:** 38' W. OF C/L 159th St. & 36' S. OF C/L Rockhill Place.  
 N = 1,698,305.20 E = 1,701,894.79  
 Top Valve Box Lid Elev. = 1367.81

**TEE:** 61' E. of C/L 159th St. & 37' S. of C/L Rockhill Place.  
**FH VALVE:** 61' E. of C/L 159th St. & 35' S. of C/L Rockhill Place.  
 N = 1,698,306.97 E = 1,701,992.01  
 Top of Valve Box Elev. = 1368.18  
**FIRE HYDRANT:** 61' E. of C/L 159th St. & 33' S. of C/L Rockhill Place.  
 N = 1,698,309.19 E = 1,701,992.05  
 Fire Hydrant Bury Line Elev. = 1367.69

WL Sta. 0+00.00, Begin Line 1  
 BL Sta. 0+36.05, 42.00' Rt.  
 1 - 24"x8" Tapping Saddle  
 1 - 8" Tapping Valve & Valve Box  
 Tapping saddle, tapping valve & valve box to be furnished and installed by the City of Wichita Water Dept. Contractor to set valve box to grade. Contractor to reimburse City of Wichita for water tap.  
 Valve Box Elev. = 1367.00-1367.81  
 N=1,698,286.46 E=1,701,896.20

WL Sta. 0+07.00, Line 1  
 BL Sta. 0+29.05, 42.00' Rt.  
 1 - 8" CIMJ 45° Bend (V)  
 1 - 8" CIMJ 45° RJ Bend (V)  
 Begin installation of RUPVC pipe under road by directional drilling.  
 N=1,698,286.41 E=1,701,905.70

WL Sta. 0+68.45, Line 1  
 BL Sta. 0+32.40, 42.00' Rt.  
 End installation of RUPVC pipe under road by directional drilling.  
 1 - 8" CIMJ 45° RJ Bend  
 N=1,698,286.11 E=1,701,964.65

WL Sta. 1+04.37, Line 1  
 BL Sta. 0+60.04, 22.00' Rt.  
 1 - Fire Hydrant Assy.  
 L = 4'  
 Bury Line Elev. = 1368.70-1367.69  
 Valve Box Elev. = 1368.80-1368.18  
 TEE N=1,698,305.96 E=1,701,992.39

45° Bend (V): 47' E. of C/L 159th St.; 36' S. of C/L Rockhill Place

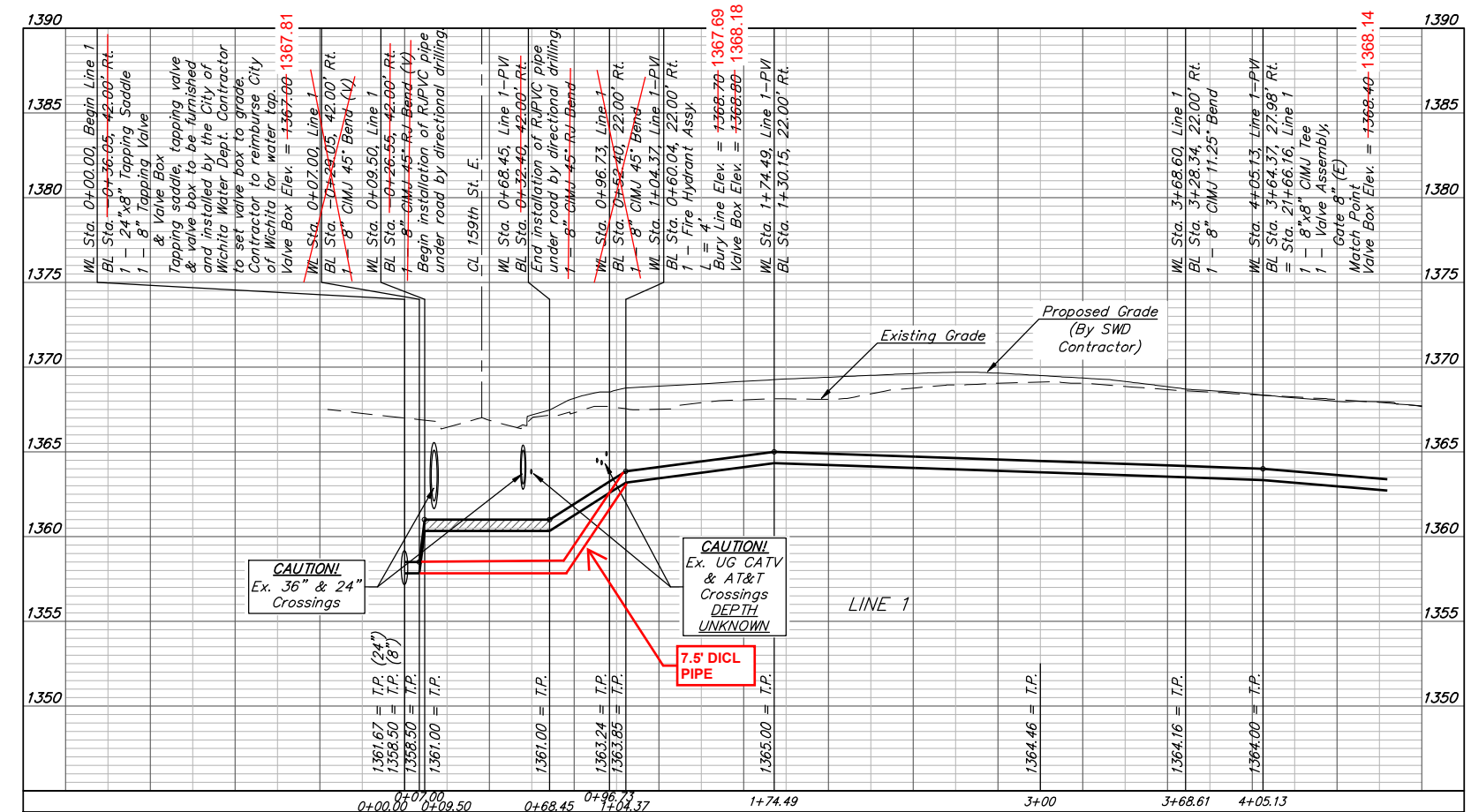
45° Bend (V): 52' E. of C/L 159th St.; 36' S. of C/L Rockhill Place

11.25° BEND (H) = 325' E. of C/L 159th St. & 22' S. of C/L Rockhill Place.  
 WL Sta. 3+68.60, Line 1  
 BL Sta. 3+28.34, 22.00' Rt.  
 1 - 8" CIMJ 11.25° Bend  
 N=1,698,314.42 E=1,702,255.17

**TEE =**  
 357' E. of C/L 159th St. & 28' S. of C/L Rockhill Place.  
**8" GATE VALVE =**  
 359' E. of C/L 159th St. & 29' S. of C/L Rockhill Place.  
 N = 1,698,300.34 E = 1,702,291.85  
 Top of Valve Box Elev. = 1368.14

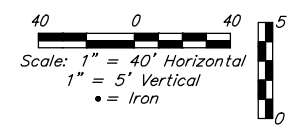
**NOTE:**  
 \* WATER TAP FOR LINE 1 WAS MOVED 18.7 FEET NORTH TO AVOID CONFLICTS WITH EXISTING BURIED UTILITIES.  
 \* REMAINING WATER LINE 1 WAS INSTALLED ON PLAN ALIGNMENT FROM STA 1+04 TO STA 21+66 END.

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



**LEGEND**

TS = Test Station  
 C/L = Center Line



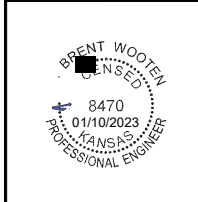
Pipe layout is shown with horizontal and vertical deflections. Contractor to use short pipe lengths, high deflection couplers, and manufacturer recommended pipe deflections to meet planned alignment.

Contractor to maintain a minimum of 10' of horizontal separation (O.D.-O.D.) between sanitary sewer and water line.

Contractor to maintain a minimum of 2' of vertical separation (O.D.-O.D.) between sanitary sewer and water line.

Most trees will be removed during mass grading (SWD project). Any remaining trees may be removed only as needed for construction.

Contact utility companies 3 weeks prior to construction to coordinate temporary removal/replacement.  
 Heide Bryan, Evergy, (316) 261-6354



**BAUGHMAN COMPANY**  
 315 Ellis St.  
 Wichita, KS 67211  
 316-262-7271  
 BaughmanCo.com

SUMMERLIN ADDITION

**LINE 1**

WATER DISTRIBUTION SYSTEM

PROJECT NUMBER:  
 22-06-E219

DESIGN: NBW DRAWN: TMS

DATE: January 9, 2023

SHEET OF  
**2 15**

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**BENCHMARKS:**  
 BM #1: CROSS CUT IN SQUARE CUT, SE COR. OF FIRST CATCH BASIN S. OF BROWNING AS DEDICATED IN QUAIL CROSSING ADDITION, PHASE 2, ON E. SIDE OF 159TH ST. E., 27.4' W. & 277.4' N. OF THE SW COR. OF LOT 66, BLOCK 2, QUAIL CROSSING ADDITION. ELEV. = 1369.19 NAVD88

BM #2: CROSS CUT IN SQUARE CUT ON TOP OF CURB, CENTER OF NOSE OF EAST END OF ISLAND IN THE ROCKHILL ST. ENTRANCE TO THE RANCH, 121.5' W. & 46.5' S. OF THE SW COR., RESERVE "A", SUMMERLIN ADDITION. ELEV. = 1369.03 NAVD88

BM #3: CROSS CUT IN SQUARE CUT, SE COR. OF FIRST CATCH BASIN N. OF BASSWOOD AS DEDICATED IN CAYWOOD ADDITION, PHASE 1, ON E. SIDE OF 159TH ST. E., 37.5' W. & 488' S. OF THE SW COR., RESERVE "D", SUMMERLIN ADDITION. ELEV. = 1365.26 NAVD88

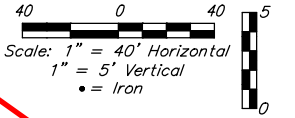
**TEE: 707' E. of C/L 159th St. & 19' S. of C/L Rockhill Place.**  
**FH VALVE: 707' E. of C/L 159th St. & 21' S. of C/L Rockhill Place.**  
 N = 1,698,279.28 E = 1,702,637.92  
**FH Valve Box Lid Elev. = 1363.48**  
**FIRE HYDRANT: 707' E. of C/L 159th St. & 23' S. of C/L Rockhill Place.**  
 N = 1,698,276.26 E = 1,702,637.48  
**Fire Hydrant Bury Line Elev. = 1363.22**

Most trees will be removed during mass grading (SWD project). Any remaining trees may be removed only as needed for construction.

**NOTE: LINE 1 THIS SHEET INSTALLED ON PLAN ALIGNMENT.**

**LEGEND**  
 (TS) = Test Station  
 C/L = Center Line

**45° BEND (H) = 1155' E. of C/L 159th St. & 24' NE. of C/L Rockhill Place.**



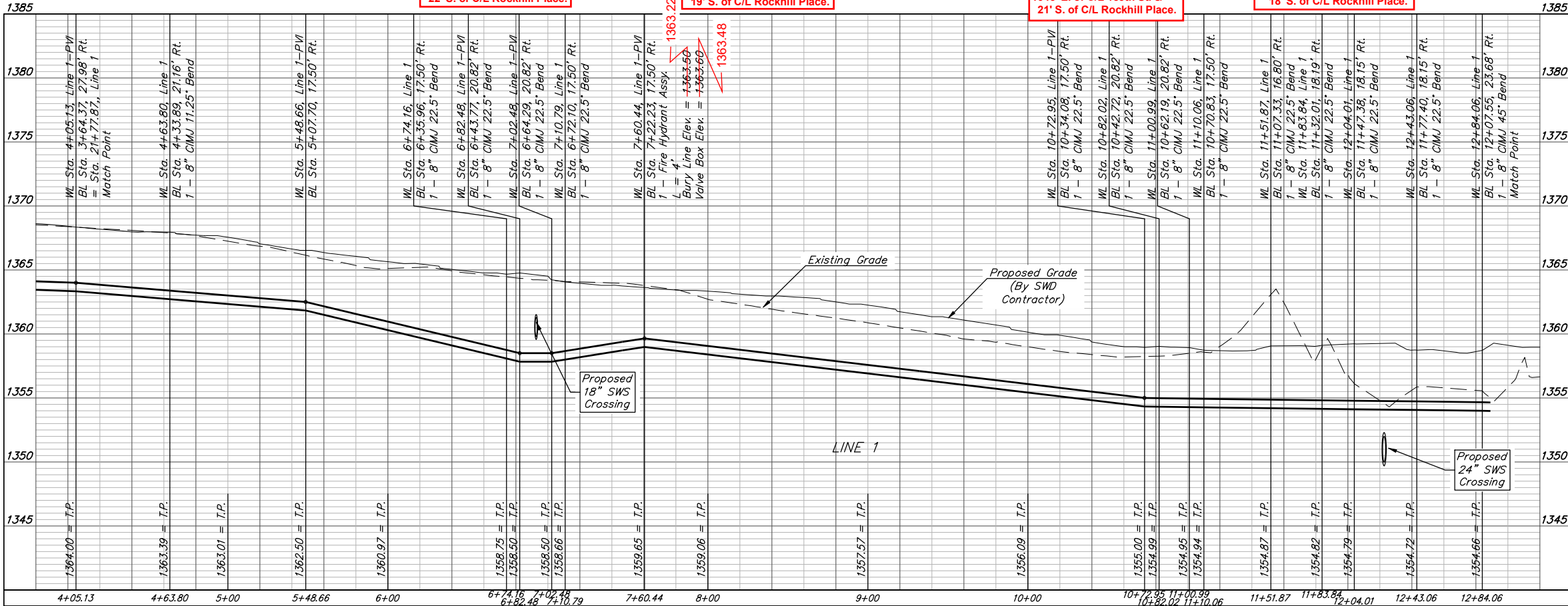
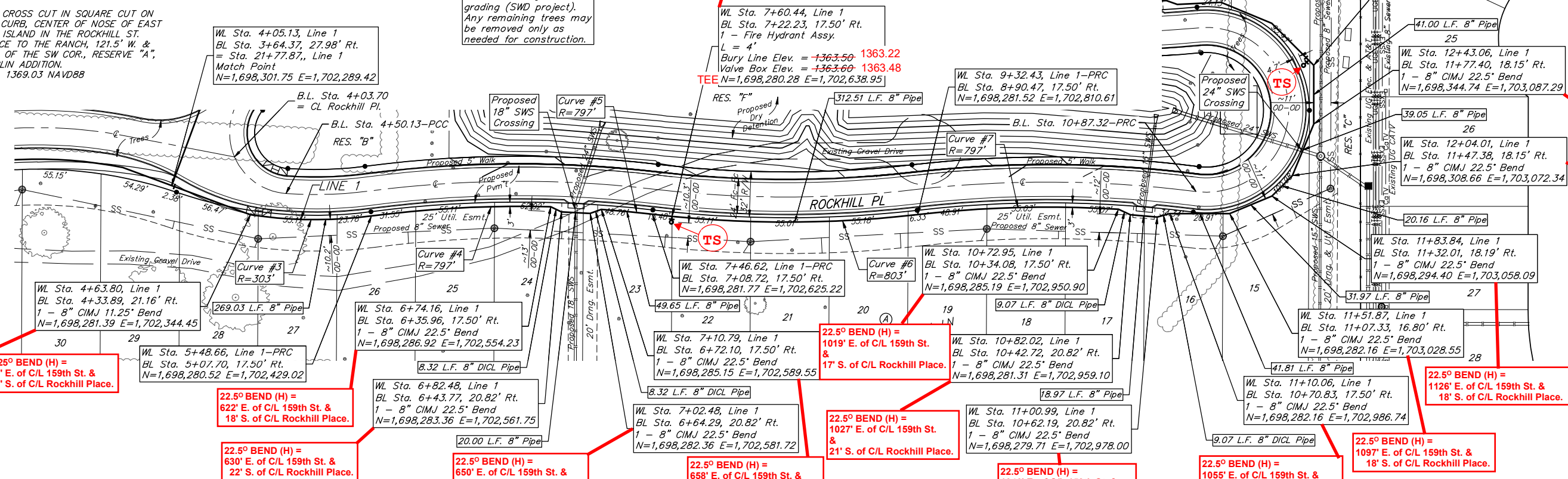
**22.5° BEND (H) = 1154' E. of C/L 159th St. & 18' SE. of C/L Rockhill Place.**

**22.5° BEND (H) = 1140' E. of C/L 159th St. & 18' SE. of C/L Rockhill Place.**

Pipe layout is shown with horizontal and vertical deflections. Contractor to use short pipe lengths, high deflection couplers, and manufacturer recommended pipe deflections to meet planned alignment.

Contractor to maintain a minimum of 10' of horizontal separation (O.D.-O.D.) between sanitary sewer and water line.

Contractor to maintain a minimum of 2' of vertical separation (O.D.-O.D.) between sanitary sewer and water line.



**BRENT WOOLEN**  
 LICENSED PROFESSIONAL ENGINEER  
 8470  
 01/10/2023  
 KANSAS

**BAUGHMAN COMPANY**  
 315 Ellis St.  
 Wichita, KS 67211  
 316-262-7271  
 BaughmanCo.com

SUMMERLIN ADDITION

**LINE 1**

WATER DISTRIBUTION SYSTEM

PROJECT NUMBER:  
22-06-E219

DESIGN: NBW DRAWN: TMS  
 DATE: January 9, 2023

SHEET 3 OF 15

**BENCHMARKS:**  
 BM #1: CROSS CUT IN SQUARE CUT, SE COR. OF FIRST CATCH BASIN S. OF BROWNING AS DEDICATED IN QUAIL CROSSING ADDITION, PHASE 2, ON E. SIDE OF 159TH ST. E., 27.4' W. & 277.4' N. OF THE SW COR. OF LOT 66, BLOCK 2, QUAIL CROSSING ADDITION.  
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 ELEV. = 1369.03 NAVD88

**TEE: 1152' E. of C/L 159th St. & 22' NE. of C/L Rockhill Place.**  
**FH VALVE: 1150' E. of C/L 159th St. & 20' NE. of C/L Rockhill Place.**  
**FIRE HYDRANT: 1148' E. of C/L 159th St. & 17' NE. of C/L Rockhill Place.**  
 N = 1,698,387.44 E = 1,703,078.78  
 Fire Hydrant Bury Line Elev. = 1358.55  
**GATE VALVE: 1149' E. of C/L 159th St. & 22' NE. of C/L Rockhill Place.**  
 N = 1,698,392.75 E = 1,703,080.43  
 Top Gate Valve Box Elev. = 1358.67

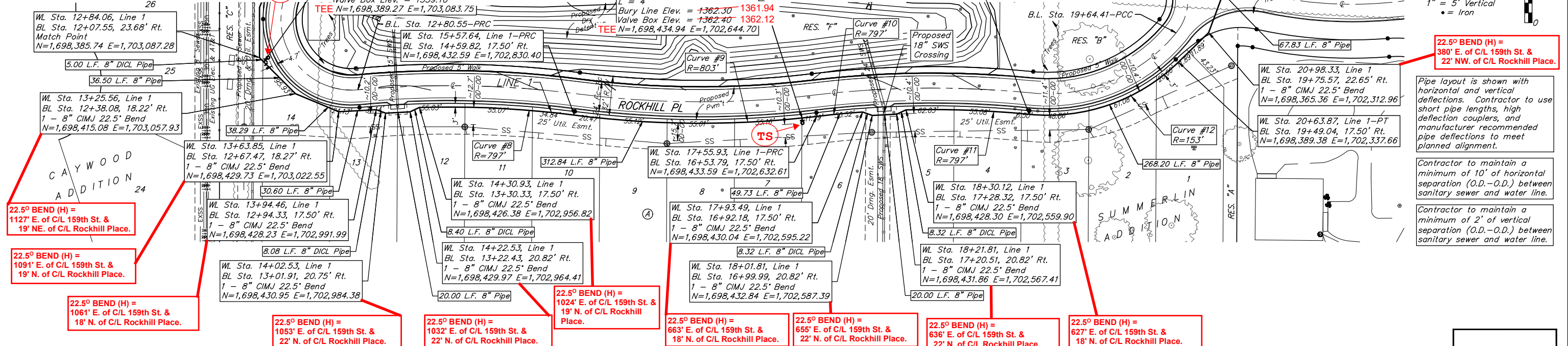
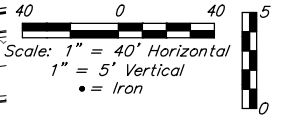
**TEE: 713' E. of C/L 159th St. & 17' N. of C/L Rockhill Place.**  
**FH VALVE: 713' E. of C/L 159th St. & 18' N. of C/L Rockhill Place.**  
 N = 1,698,453.83 E = 1,702,644.22  
**Top of Valve Box Lid Elev. = 1362.12**  
**FIRE HYDRANT: 713' E. of C/L 159th St. & 21' N. of C/L Rockhill Place.**  
 N = 1,698,438.31 E = 1,702,643.81  
**FH Bury Line Elev. = 1361.94**

**NOTE: LINE 1 THIS SHEET INSTALLED ON PLAN ALIGNMENT.**

**LEGEND**  
 (TS) = Test Station  
 C/L = Center Line

Pipe layout is shown to be circular for radii under 200'. Contractor may use short pipe lengths, high deflection couplers, and manufacturer recommended pipe deflections and pipe bending to meet planned alignment.

WL Sta. 21+66.15, End Line 1  
 BL Sta. 3+64.37, 27.98' Rt.  
 = Sta. 4+05.13, Line 1  
 N=1,698,301.75 E=1,702,289.43



**22.5° BEND (H) = 1127' E. of C/L 159th St. & 19' NE. of C/L Rockhill Place.**

**22.5° BEND (H) = 1091' E. of C/L 159th St. & 19' N. of C/L Rockhill Place.**

**22.5° BEND (H) = 1061' E. of C/L 159th St. & 18' N. of C/L Rockhill Place.**

**22.5° BEND (H) = 1053' E. of C/L 159th St. & 22' N. of C/L Rockhill Place.**

**22.5° BEND (H) = 1032' E. of C/L 159th St. & 22' N. of C/L Rockhill Place.**

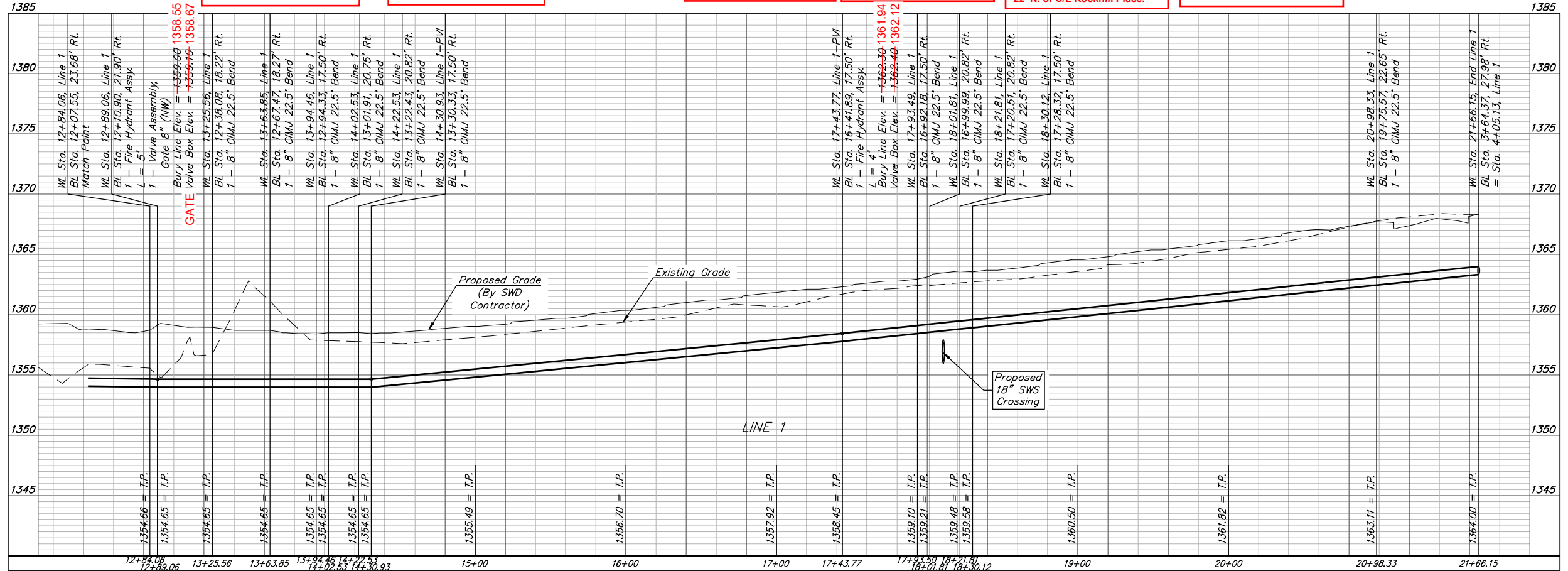
**22.5° BEND (H) = 1024' E. of C/L 159th St. & 19' N. of C/L Rockhill Place.**

**22.5° BEND (H) = 663' E. of C/L 159th St. & 18' N. of C/L Rockhill Place.**

**22.5° BEND (H) = 655' E. of C/L 159th St. & 22' N. of C/L Rockhill Place.**

**22.5° BEND (H) = 636' E. of C/L 159th St. & 22' N. of C/L Rockhill Place.**

**22.5° BEND (H) = 627' E. of C/L 159th St. & 18' N. of C/L Rockhill Place.**



BRENT WOOLEN  
 LICENSED PROFESSIONAL ENGINEER  
 8470  
 01/10/2023  
 KANSAS  
 PROFESSIONAL ENGINEER

**B**

**BAUGHMAN COMPANY**  
 315 Ellis St.  
 Wichita, KS 67211  
 316-262-7271  
 BaughmanCo.com

SUMMERLIN ADDITION

**LINE 1**

WATER DISTRIBUTION SYSTEM

PROJECT NUMBER:  
 22-06-E219

DESIGN: NBW DRAWN: TMS  
 DATE: January 9, 2023

SHEET OF  
**4 15**

File: E:\Projects\Summerlin Addition\_18-09-1407\Engineering\Phase 1\WTR 22-06-E219\Water.dwg

Curve #1				
Curve Data Based on Waterline				
Rad. = 293' Delta = 12°58'41" Tangent = 33.33'				
Arc = 66.36' L.C. = 66.23' Def./Ft. = 5.86711 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
1+74.49	-	-	0°00'00"	0°00'00"
2+00.00	25.51'	26.20'	2°29'40"	2°29'40"
2+25.00	25.00'	25.68'	2°26'41"	4°56'21"
2+40.85	15.85'	16.28'	1°32'59"	6°29'20"

Curve #2				
Curve Data Based on Waterline				
Rad. = 307' Delta = 23°50'33" Tangent = 64.81'				
Arc = 127.75' L.C. = 126.83' Def./Ft. = 5.59902 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
2+40.85	-	-	0°00'00"	0°00'00"
2+50.00	9.15'	8.91'	0°51'14"	0°51'14"
2+75.00	25.00'	24.34'	2°19'58"	3°11'12"
3+00.00	25.00'	24.34'	2°19'59"	5°31'11"
3+25.00	25.00'	24.34'	2°19'58"	7°51'09"
3+50.00	25.00'	24.34'	2°19'59"	10°11'08"
3+68.60	18.60'	18.11'	1°44'09"	11°55'17"

Curve #3				
Curve Data Based on Waterline				
Rad. = 303' Delta = 16°02'46" Tangent = 42.71'				
Arc = 84.86' L.C. = 84.58' Def./Ft. = 5.67268 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
4+63.80	-	-	0°00'00"	0°00'00"
4+75.00	11.20'	11.49'	1°03'32"	1°03'32"
5+00.00	25.00'	25.65'	2°21'49"	3°25'21"
5+25.00	25.00'	25.65'	2°21'49"	5°47'10"
5+48.66	23.66'	24.28'	2°14'13"	8°01'23"

Curve #4				
Curve Data Based on Waterline				
Rad. = 797' Delta = 9°01'21" Tangent = 62.88'				
Arc = 125.50' L.C. = 125.38' Def./Ft. = 2.15677 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
5+48.66	-	-	0°00'00"	0°00'00"
5+50.00	1.34'	1.33'	0°02'53"	0°02'53"
5+75.00	25.00'	24.75'	0°53'56"	0°56'49"
6+00.00	25.00'	24.75'	0°53'55"	1°50'44"
6+25.00	25.00'	24.75'	0°53'55"	2°44'39"
6+50.00	25.00'	24.75'	0°53'55"	3°38'34"
6+74.16	24.16'	23.92'	0°52'07"	4°30'41"

Curve #5				
Curve Data Based on Waterline				
Rad. = 797' Delta = 2°34'33" Tangent = 17.92'				
Arc = 35.83' L.C. = 35.83' Def./Ft. = 2.15671 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
7+10.79	-	-	0°00'00"	0°00'00"
7+25.00	14.21'	14.07'	0°30'39"	0°30'39"
7+46.62	21.62'	21.40'	0°46'37"	1°17'16"

Curve #6				
Curve Data Based on Waterline				
Rad. = 803' Delta = 13°15'27" Tangent = 93.32'				
Arc = 185.81' L.C. = 185.39' Def./Ft. = 2.14049 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
7+46.62	-	-	0°00'00"	0°00'00"
7+50.00	3.38'	3.41'	0°07'14"	0°07'14"
7+75.00	25.00'	25.25'	0°53'31"	1°00'45"
8+00.00	25.00'	25.25'	0°53'31"	1°54'16"
8+25.00	25.00'	25.25'	0°53'30"	2°47'46"
8+50.00	25.00'	25.25'	0°53'31"	3°41'17"
8+75.00	25.00'	25.25'	0°53'31"	4°34'48"
9+00.00	25.00'	25.25'	0°53'31"	5°28'19"
9+25.00	25.00'	25.25'	0°53'30"	6°21'49"
9+32.43	7.43'	7.50'	0°15'55"	6°37'44"

Curve #7				
Curve Data Based on Waterline				
Rad. = 797' Delta = 10°06'07" Tangent = 70.44'				
Arc = 140.52' L.C. = 140.34' Def./Ft. = 2.15669 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
9+32.43	-	-	0°00'00"	0°00'00"
9+50.00	17.57'	17.39'	0°37'54"	0°37'54"
9+75.00	25.00'	24.75'	0°53'55"	1°31'49"
10+00.00	25.00'	24.75'	0°53'55"	2°25'44"
10+25.00	25.00'	24.75'	0°53'55"	3°19'39"
10+50.00	25.00'	24.75'	0°53'55"	4°13'34"
10+72.95	22.95'	22.72'	0°49'30"	5°03'04"

Curve #8				
Curve Data Based on Waterline				
Rad. = 797' Delta = 9°06'31" Tangent = 63.49'				
Arc = 126.71' L.C. = 126.57' Def./Ft. = 2.15656 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
14+30.93	-	-	0°00'00"	0°00'00"
14+50.00	19.07'	18.88'	0°41'08"	0°41'08"
14+75.00	25.00'	24.75'	0°53'54"	1°35'02"
15+00.00	25.00'	24.75'	0°53'55"	2°28'57"
15+25.00	25.00'	24.75'	0°53'55"	3°22'52"
15+50.00	25.00'	24.75'	0°53'55"	4°16'47"
15+57.64	7.64'	7.56'	0°16'29"	4°33'16"

Curve #9				
Curve Data Based on Waterline				
Rad. = 803' Delta = 14°08'55" Tangent = 99.65'				
Arc = 198.29' L.C. = 197.79' Def./Ft. = 2.14059 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
15+57.64	-	-	0°00'00"	0°00'00"
15+75.00	17.36'	17.53'	0°37'10"	0°37'10"
16+00.00	25.00'	25.25'	0°53'31"	1°30'41"
16+25.00	25.00'	25.25'	0°53'30"	2°24'11"
16+50.00	25.00'	25.25'	0°53'31"	3°17'42"
16+75.00	25.00'	25.25'	0°53'31"	4°11'13"
17+00.00	25.00'	25.25'	0°53'31"	5°04'44"
17+25.00	25.00'	25.25'	0°53'31"	5°58'15"
17+50.00	25.00'	25.25'	0°53'31"	6°51'46"
17+55.93	5.93'	5.99'	0°12'41"	7°04'27"

Curve #10				
Curve Data Based on Waterline				
Rad. = 797' Delta = 2°42'02" Tangent = 18.79'				
Arc = 37.56' L.C. = 37.56' Def./Ft. = 2.15699 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
17+55.93	-	-	0°00'00"	0°00'00"
17+75.00	19.07'	18.88'	0°41'08"	0°41'08"
17+93.49	18.49'	18.31'	0°39'53"	1°21'01"

Curve #11				
Curve Data Based on Waterline				
Rad. = 797' Delta = 7°13'41" Tangent = 50.34'				
Arc = 100.54' L.C. = 100.48' Def./Ft. = 2.15677 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
18+30.12	-	-	0°00'00"	0°00'00"
18+50.00	19.88'	19.68'	0°42'53"	0°42'53"
18+75.00	25.00'	24.75'	0°53'55"	1°36'48"
19+00.00	25.00'	24.75'	0°53'55"	2°30'43"
19+25.00	25.00'	24.75'	0°53'55"	3°24'38"
19+30.66	5.66'	5.60'	0°12'13"	3°36'51"

Curve #12				
Curve Data Based on Waterline				
Rad. = 153' Delta = 49°53'02" Tangent = 71.16'				
Arc = 133.21' L.C. = 129.04' Def./Ft. = 11.23427 Min.				
Chord Lengths	Arc	8' Right	Defl.	Total Defl.
Station				
19+30.66	-	-	0°00'00"	0°00'00"
19+50.00	19.34'	20.34'	3°37'16"	3°37'16"
19+75.00	25.00'	26.28'	4°40'52"	8°18'08"
20+00.00	25.00'	26.28'	4°40'51"	12°58'59"
20+25.00	25.00'	26.28'	4°40'51"	17°39'50"
20+50.00	25.00'	26.28'	4°40'52"	22°20'42"
20+63.87	13.87'	14.59'	2°35'49"	24°56'31"



**BAUGHMAN  
COMPANY**

315 Ellis St.  
Wichita, KS 67211  
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SUMMERLIN  
ADDITION

**CURVE  
TABLES**

WATER DISTRIBUTION  
SYSTEM

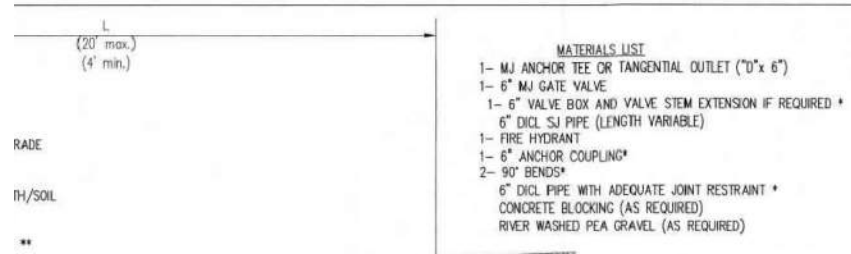
PROJECT NUMBER:  
22-06-E219

DESIGN: NBW DRAWN: TMS

DATE: January 9, 2023

SHEET **5** OF **15**

File: E:\Projects\Summerlin Addition\_18-09-P407\Engineering\Phase 1\WTR 22-06-E219\Water.dwg

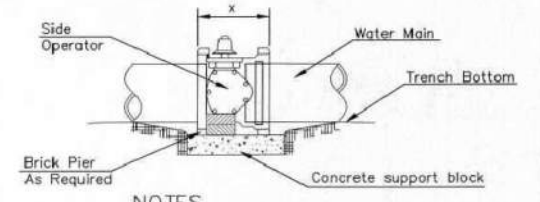


**As-Built Bury Line Elevation:**

1367.69
1363.22
1358.55
1361.94

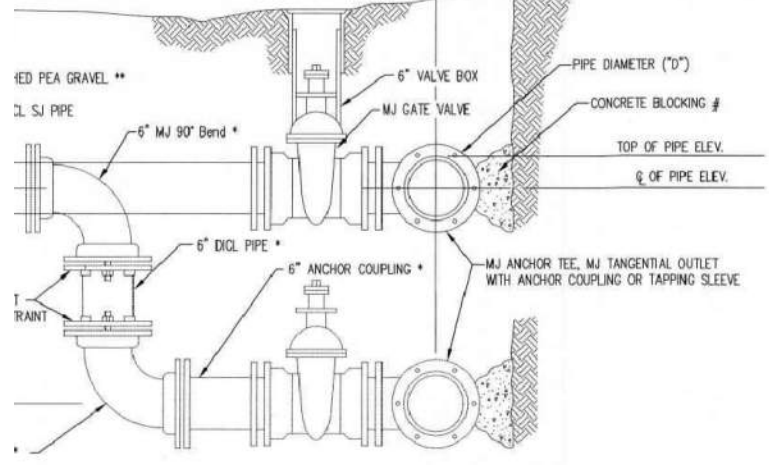
**FIRE HYDRANTS REQUIRED**

STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED*	VALVE STEM EXT. REQUIRED (ft)*	Fire Hydrant
1+04.37	<del>1368.70</del>	1363.85	5.5'		No
7+60.44	<del>1363.50</del>	1359.65	4.5'		No
12+89.06	<del>1359.00</del>	1354.65	5.0'		No
17+43.77	<del>1362.30</del>	1358.45	4.5'		No



- 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.

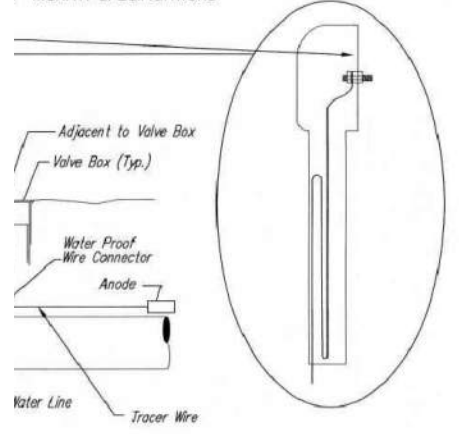
**CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION**



IF JURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE 1" AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE DISTANCE IS GREATER THAN 7', CONTRACTOR SHALL USE 5" HYDRANT BURY, 2-MJ ANCHOR COUPLING AND 6" DI CL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS. USE 90° BENDS TO SECURE ALL FITTINGS DURING TESTING. CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS

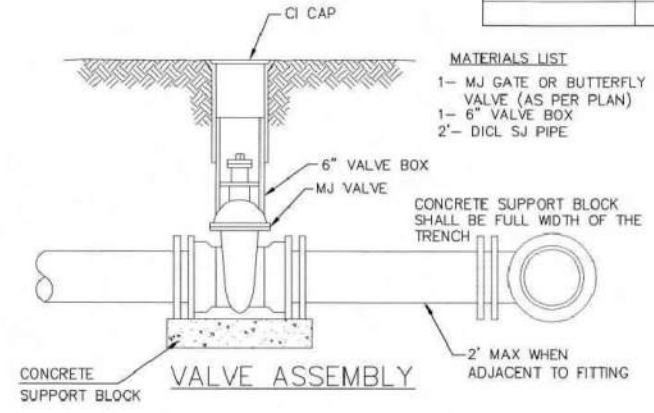
KEEP CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR VALVE SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AT WEEP HOLE.

VALVE SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES. VALVE ASSEMBLY SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

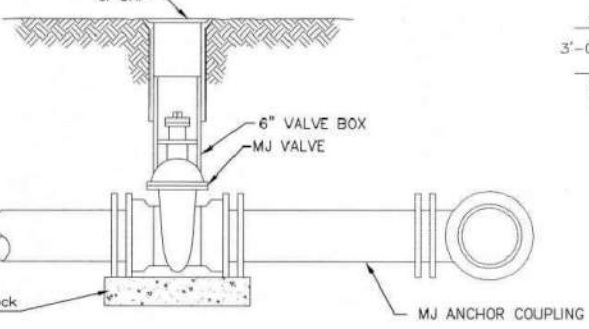


**VALVE STEM EXTENSION DETAIL**

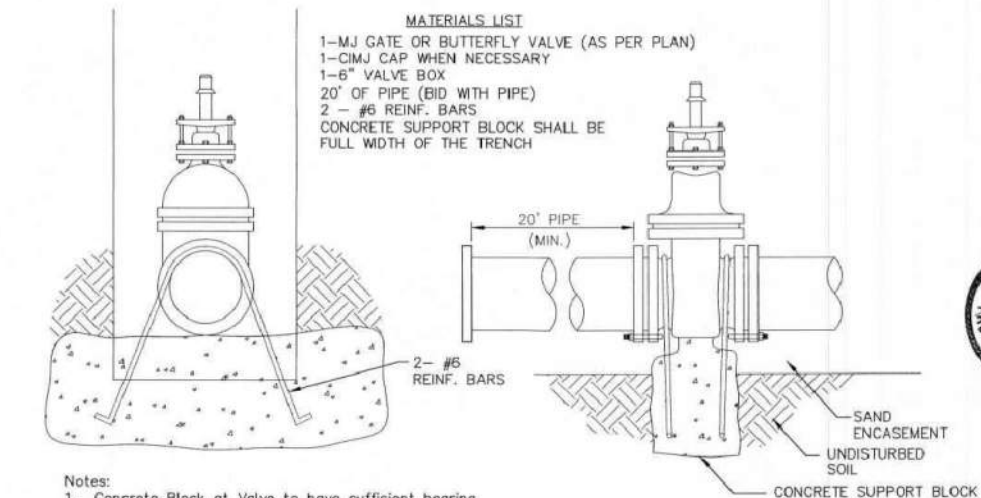
NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.



- 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**

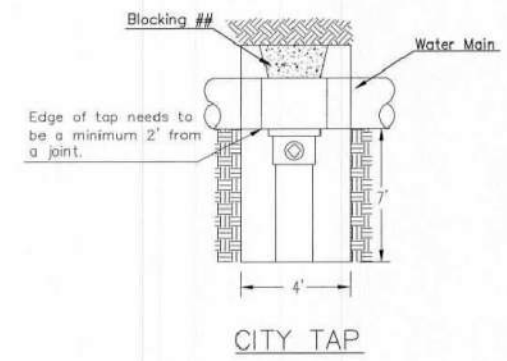


- MATERIALS LIST**  
 1- MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)  
 1- CIMJ CAP WHEN NECESSARY  
 1- 6" VALVE BOX  
 20' OF PIPE (BID WITH PIPE)  
 2- #6 REINF. BARS  
 CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH

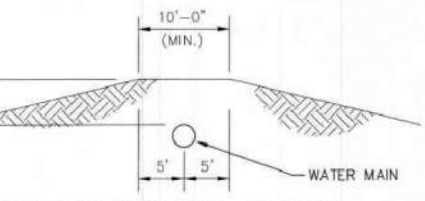
- Notes:**
- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
  - The thrust block shall be constructed such that bolts, nuts, and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

**THRUST AT VALVES**

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

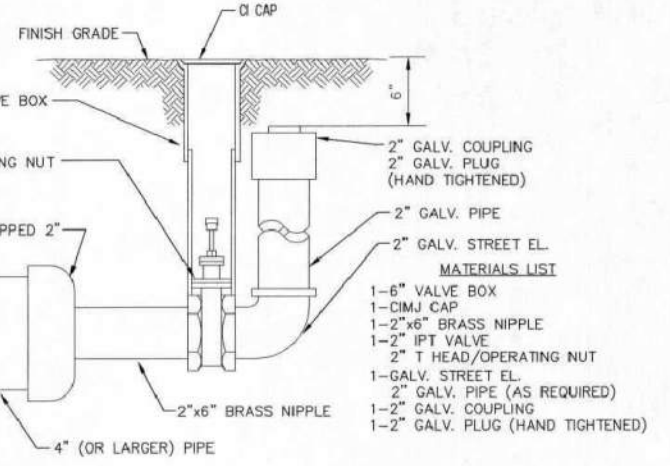


## When the City of Wichita makes tap, blocking is to be done by Contractor



**PROTECTIVE FILL DETAIL**

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



**2" BLOWOFF ASSEMBLY**

Tracer wire regardless of pipe material. The wire shall extend the entire length of the proposed waterline. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire is available at [www.wichita.gov](http://www.wichita.gov).

To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the test station per manufacturer recommendations. Contractor shall attach wire being installed with care.

Test station as manufactured by AGRA Industries with a removable solid cover having a single lead wire. The wire shall be attached to a 1" rigid galvanized conduit with a minimum length of 36" and sealed or molded into the lid. The test station for valve applications shall be a 2" flush style test station or CD14\*TP SnakePit as manufactured by Copperhead Industries or approved equal. The flush test stations shall be manufactured using molded blue tops or sufficiently coated with blue paint. The wire shall be 12" of wire within the test station. The location of all test stations shall be recorded, and shall be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire to the test station.

Test stations shall be buried at the same elevation as the waterline at each test station. The anodes shall be installed as shown.



STANDARD WATER ASSEMBLY DETAIL

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

PROJECT NUMBER	OCA NUMBER	DATE
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR		

IRONS

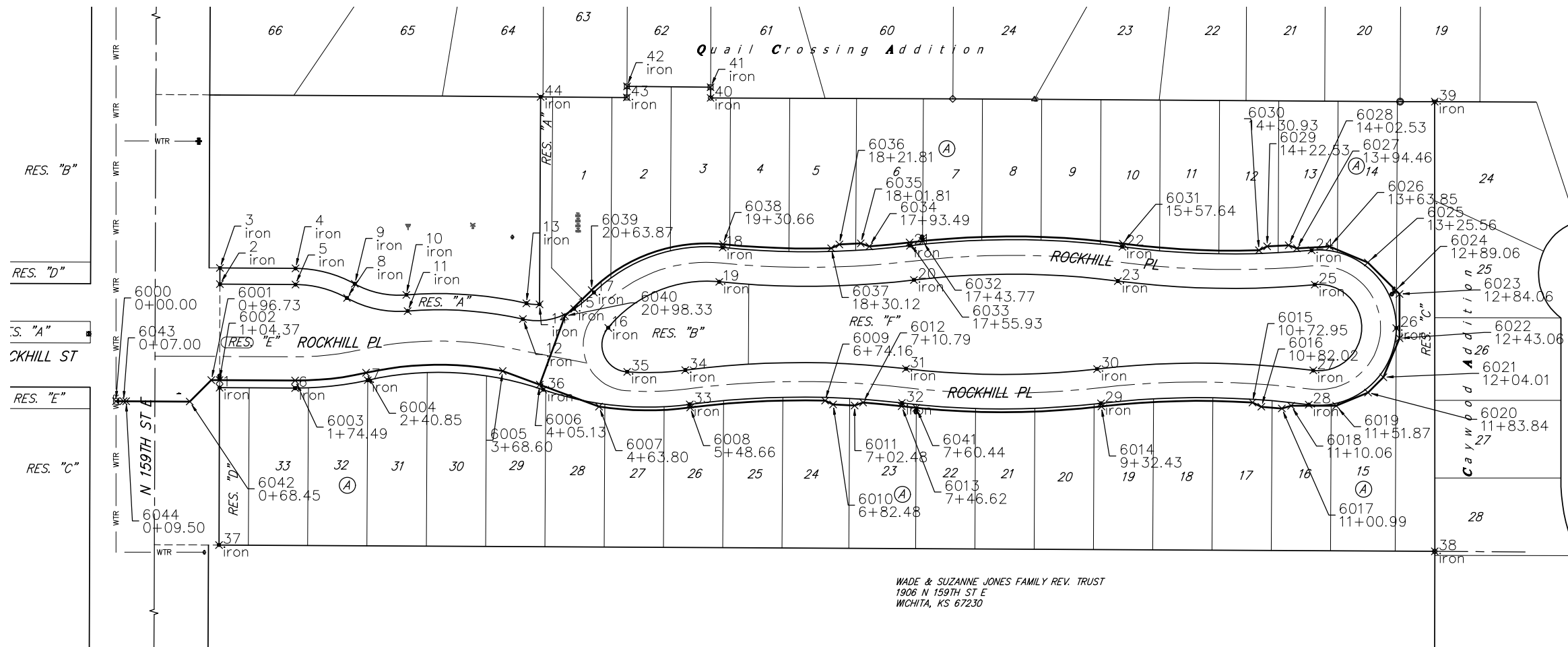
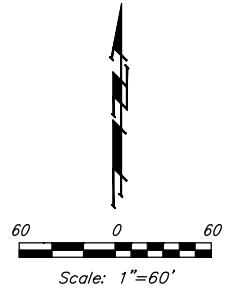
Point Table			
Point #	Northing	Easting	Raw Description
1	1698298.96	1701992.37	iron
2	1698394.96	1701992.70	iron
3	1698409.96	1701992.75	iron
4	1698409.60	1702062.88	iron
5	1698394.60	1702062.80	iron
6	1698298.60	1702062.47	iron
7	1698305.91	1702129.88	iron
8	1698382.17	1702110.57	iron
9	1698395.31	1702117.81	iron
10	1698385.02	1702165.70	iron
11	1698370.07	1702166.90	iron
12	1698362.60	1702273.86	iron
13	1698377.24	1702277.14	iron
14	1698376.21	1702289.23	iron
15	1698372.08	1702321.47	iron
16	1698354.44	1702353.02	iron
17	1698387.23	1702339.76	iron
18	1698428.95	1702459.19	iron
19	1698397.11	1702456.02	iron
20	1698398.84	1702636.75	iron
21	1698430.61	1702632.97	iron
22	1698429.61	1702830.01	iron

Point Table			
Point #	Northing	Easting	Raw Description
23	1698397.88	1702825.91	iron
24	1698426.36	1703005.70	iron
25	1698394.50	1703008.63	iron
26	1698354.29	1703084.28	iron
27	1698314.99	1703007.20	iron
28	1698283.25	1703003.14	iron
29	1698284.50	1702810.27	iron
30	1698316.29	1702806.62	iron
31	1698316.53	1702629.31	iron
32	1698284.75	1702625.57	iron
33	1698283.50	1702428.63	iron
34	1698315.23	1702424.49	iron
35	1698313.67	1702370.57	iron
36	1698297.10	1702292.78	iron
37	1698153.03	1701991.86	iron
38	1698147.19	1703119.99	iron
39	1698564.18	1703119.96	iron
40	1698567.69	1702448.00	iron
41	1698577.58	1702447.99	iron
42	1698578.40	1702370.40	iron
43	1698568.09	1702370.32	iron
44	1698568.65	1702290.30	iron

WATER DISTRIBUTION SYSTEM

Point Table			
Point #	Northing	Easting	Raw Description
6000	1698286.46	1701896.20	0+00.00
6001	1698306.00	1701984.75	0+96.73
6002	1698305.96	1701992.39	1+04.37
6003	1698305.60	1702062.51	1+74.49
6004	1698312.74	1702128.34	2+40.85
6005	1698314.42	1702255.17	3+68.60
6006	1698301.75	1702289.42	4+05.13
6007	1698281.39	1702344.45	4+63.80
6008	1698280.52	1702429.02	5+48.66
6009	1698286.92	1702554.23	6+74.16
6010	1698283.36	1702561.75	6+82.48
6011	1698282.36	1702581.72	7+02.48
6012	1698285.15	1702589.55	7+10.79
6013	1698291.77	1702625.22	7+46.62
6014	1698281.52	1702810.61	9+32.43
6015	1698285.19	1702950.90	10+72.95
6016	1698281.31	1702959.10	10+82.02
6017	1698279.71	1702978.00	11+00.99
6018	1698282.16	1702986.74	11+10.06
6019	1698282.16	1703028.55	11+51.87
6020	1698294.40	1703058.09	11+83.84
6021	1698308.66	1703072.34	12+04.01
6022	1698344.74	1703087.29	12+43.06

Point Table			
Point #	Northing	Easting	Raw Description
6023	1698385.74	1703087.28	12+84.06
6024	1698389.27	1703083.75	12+89.06
6025	1698415.08	1703057.93	13+25.56
6026	1698429.73	1703022.55	13+63.85
6027	1698428.23	1702991.99	13+94.46
6028	1698430.95	1702984.38	14+02.53
6029	1698429.97	1702964.41	14+22.53
6030	1698426.38	1702956.82	14+30.93
6031	1698432.59	1702830.40	15+57.64
6032	1698434.94	1702644.70	17+43.77
6033	1698433.59	1702632.61	17+55.93
6034	1698430.04	1702595.22	17+93.49
6035	1698432.84	1702587.39	18+01.81
6036	1698431.86	1702567.41	18+21.81
6037	1698428.30	1702559.90	18+30.12
6038	1698431.94	1702459.49	19+30.66
6039	1698389.38	1702337.66	20+63.87
6040	1698365.36	1702312.96	20+98.33
6041	1698280.28	1702638.95	7+60.44
6042	1698286.11	1701964.65	0+68.45
6043	1698286.42	1701903.20	0+07.00
6044	1698286.41	1701905.70	0+09.50



WADE & SUZANNE JONES FAMILY REV. TRUST  
1906 N 159TH ST E  
WICHITA, KS 67230



**BRENT WOOTEN**  
LICENSED PROFESSIONAL ENGINEER  
8470  
01/10/2023  
KANSAS



**BAUGHMAN COMPANY**

315 Ellis St.  
Wichita, KS 67211  
316-262-7271  
BaughmanCo.com

SUMMERLIN ADDITION

**COORDINATE SHEET**

WATER DISTRIBUTION SYSTEM

PROJECT NUMBER:  
22-06-E219

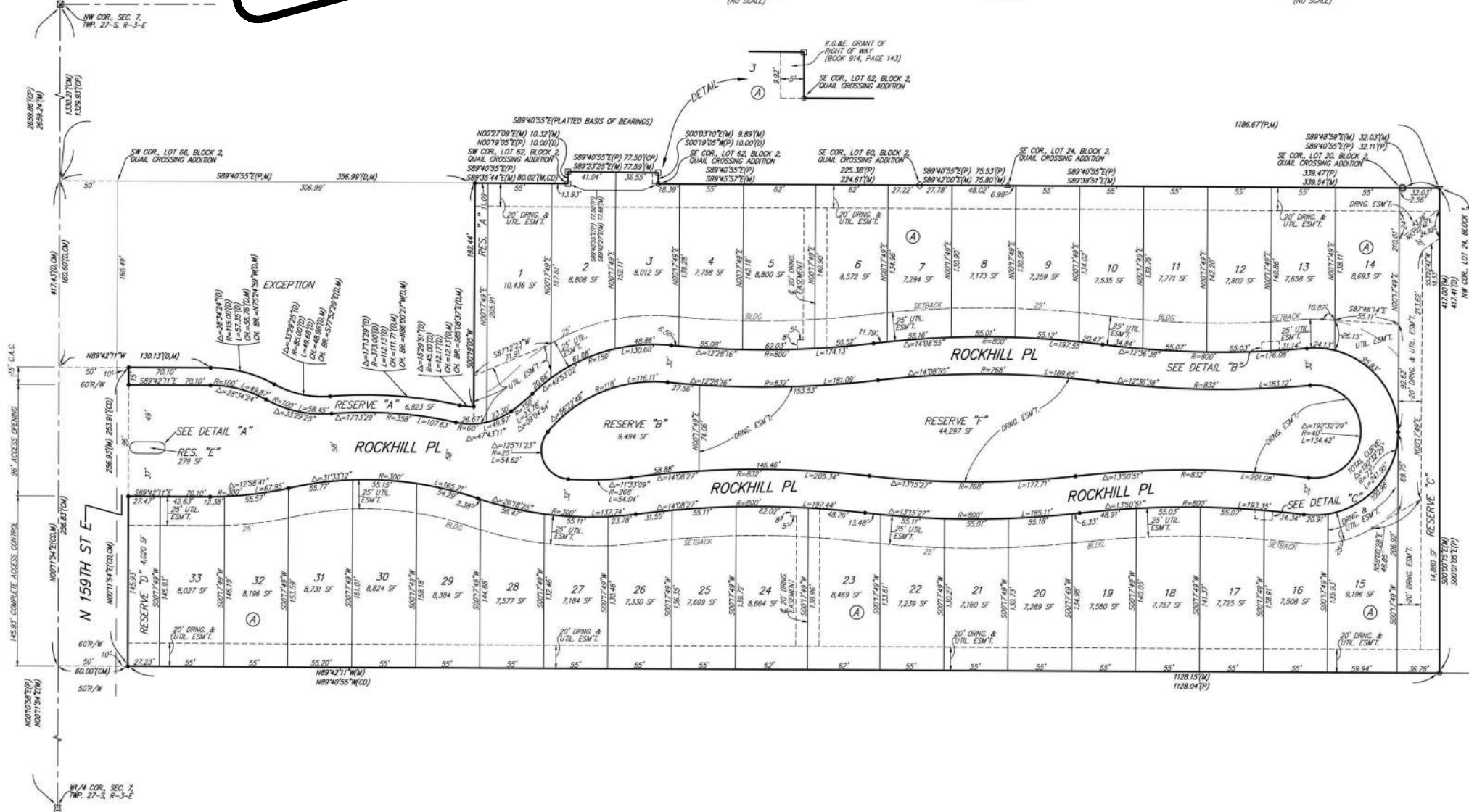
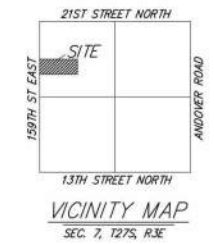
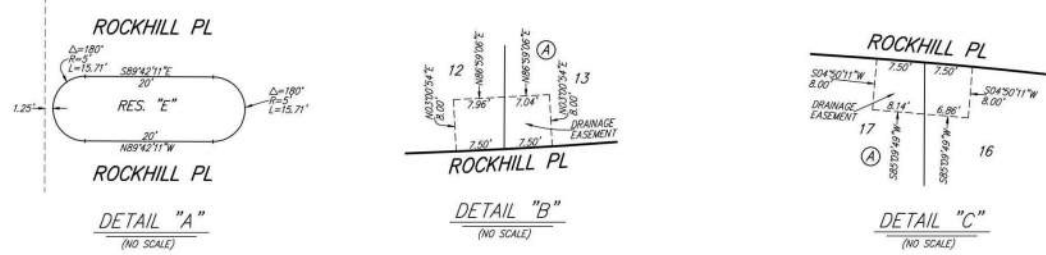
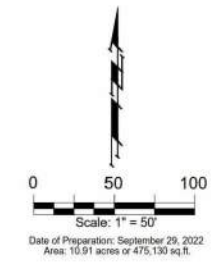
DESIGN: NBW DRAWN: TMS  
DATE: January 9, 2023

SHEET **14** OF **15**

File: E:\Projects\Summerlin Addition - 18-09-P407\Engineering\Phase 1\WTR 22-06-E219\Water.dwg

FINAL PLANNED UNIT DEVELOPMENT PLAN  
**SUMMERLIN ADDITION**  
 ANDOVER, BUTLER COUNTY, KANSAS  
 LOCATED IN A PORTION OF THE NW/4, SEC. 7, TWP. 27-S, R-3-E &  
 A REPLAT OF THE SOUTH 10' OF LOT 62, BLOCK 2, QUAIL CROSSING PHASE II

**FOR REFERENCE ONLY  
 NOT TO SCALE**



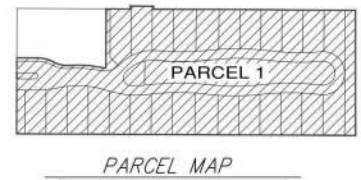
- = #4 REBAR W/ "BAUGHMAN" CAP (SET)
  - = #4 REBAR W/ "ARMSTRONG" CAP (FOUND)
  - △ = #4 REBAR W/ "SAVOY" CAP (FOUND)
  - ◇ = #4 REBAR W/ "S&S" CAP (FOUND)
  - = #5 REBAR (FOUND) (ORIGIN UNKNOWN)
  - = #5 REBAR W/ "THE" CAP (FOUND)
  - = #5 REBAR W/ "ARMSTRONG" CAP (FOUND)
  - = #4 REBAR W/ "S&S" CAP (FOUND)
  - = ALUMINUM CAP IN THIMBLE (FOUND)
  - = 1/2" IRON PIPE IN THIMBLE (FOUND)
- (M) = MEASURED  
 (P) = PLATTED  
 (D) = DESCRIBED  
 (CM) = CALCULATED FROM MEASURED INFO.  
 (CP) = CALCULATED FROM PLATTED INFO.  
 (CD) = CALCULATED FROM DESCRIBED INFO.

**BENCHMARKS:**  
 CROSS CUT IN SQUARE CUT, SE COR. OF FIRST CATCH BASIN S. OF BRONING AS DEDICATED IN QUAIL CROSSING ADDITION, PHASE 2, ON E. SIDE OF 159TH ST. E., 27.4' W. & 277.4' N. OF THE SW COR. OF LOT 66, BLOCK 2, QUAIL CROSSING ADDITION.  
 ELEV. = 1369.19 NAVD88

CROSS CUT IN SQUARE CUT ON TOP OF CURB, CENTER OF NOSE OF EAST END OF ISLAND IN THE ROCKHILL ST. ENTRANCE TO THE RANCH, 125.5' W. & 46.5' S. OF THE SW COR., RESERVE "A", SUMMERLIN ADDITION.  
 ELEV. = 1369.03 NAVD88

CROSS CUT IN SQUARE CUT, SE COR. OF FIRST CATCH BASIN N. OF BASSWOOD AS DEDICATED IN CAYWOOD ADDITION, PHASE 1, ON E. SIDE OF 159TH ST. E., 31.5' W. & 488' S. OF THE SW COR., RESERVE "D", SUMMERLIN ADDITION.  
 ELEV. = 1365.26 NAVD88

**NOTE:**  
 A master grading plan for drainage has been developed for this subdivision and is on file with the City of Andover, Kansas. All drainage easements, right-of-way, or reserves shall remain of established grades or as modified with the approval of the City Engineer of the City of Andover, Kansas. No obstructions which impede the flow of this drainage system be allowed.



SUMMERLIN ADDITION  
 PAGE 2 OF 2 Sep. 29, 2022  
**BAUGHMAN COMPANY**  
 315 Ellis St. Wichita, KS 67211 316-262-7271  
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SUMMERLIN  
 ADDITION

**COPY OF  
 PLAT**

WATER DISTRIBUTION  
 SYSTEM

PROJECT NUMBER:  
 22-06-E219

DESIGN: DRAWN:  
 DATE: October 6, 2022

SHEET  
**15** OF **15**

E:\Projects\Summerlin-Addition\_18-09-24\07-Dwg\Drawings\Summerlin-Addition\_Mat.dwg

F:\E:\Projects\Summerlin-Addition\_18-09-24\07-Engineering\Phase 1\WTR-22-06-E219\Water.dwg