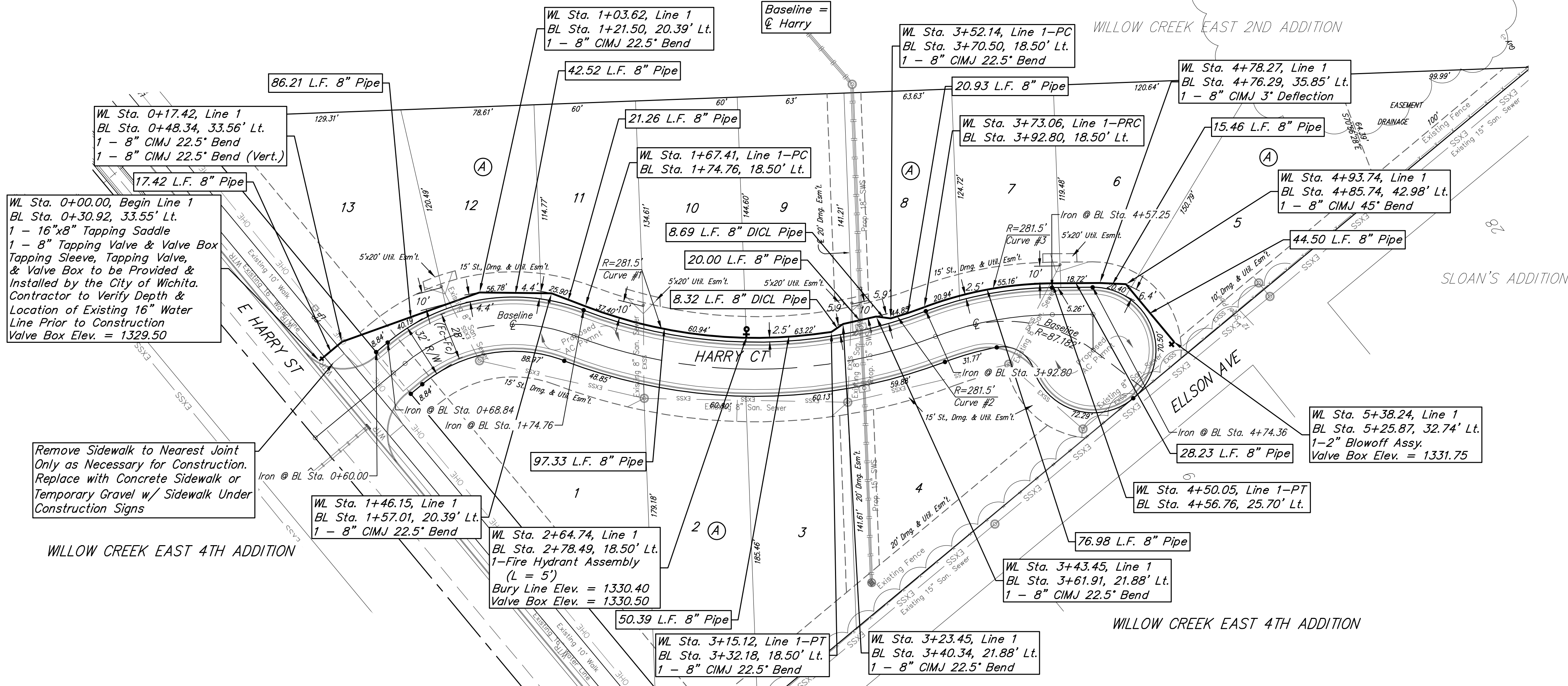


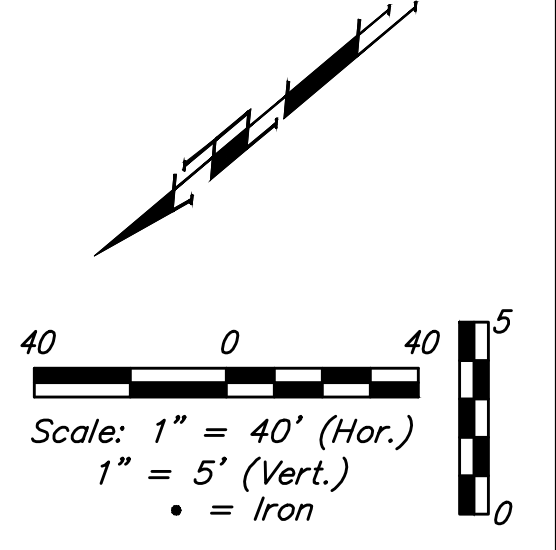
**BENCHMARKS:**  
 CHISELED "□", TOP OF CURB INLET, NW COR. OF CURB INLET, 77.8' W. & 16.1' N. OF NW COR., E1/2, NW1/4, SEC. 34, TWP. 27-S, R-2-E.  
 ELEV. = 1332.09 NAVD88

CHISELED "□", TOP OF CURB INLET, NW COR. OF CURB INLET, 272.1' E. & 16.1' N. OF NW COR., E1/2, NW1/4, SEC. 34, TWP. 27-S, R-2-E.  
 ELEV. = 1329.53 NAVD88



**NOTE:** Maintain 10 ft. of horizontal separation (outside dimension) between the water lines and sanitary sewer lines/structures.

For Radii Under 300' Contractor to Use Short Pipe Lengths



Curve #1

Curve Data Based on Waterline  
 Rad. = 281.5' Delta = 30°03'56" Tangent = 75.60'  
 Arc = 147.72' L.C. = 146.03' Def./Ft. = 6.10592 Min.

| Station | Arc    | 8' Left | Def.     | Total Def. |
|---------|--------|---------|----------|------------|
| 1+66.47 | -      | -       | 0'00'00" | 0'00'00"   |
| 1+75.00 | 8.53'  | 7.86'   | 0'52'05" | 0'52'05"   |
| 2+00.00 | 25.00' | 23.04'  | 2'32'39" | 3'24'44"   |
| 2+25.00 | 25.00' | 23.04'  | 2'32'39" | 5'57'23"   |
| 2+50.00 | 25.00' | 23.04'  | 2'32'39" | 8'30'02"   |
| 2+75.00 | 25.00' | 23.04'  | 2'32'39" | 11'02'41"  |
| 3+00.00 | 25.00' | 23.04'  | 2'32'39" | 13'35'19"  |
| 3+14.19 | 14.19' | 13.08'  | 1'26'39" | 15'01'58"  |

Curve #2

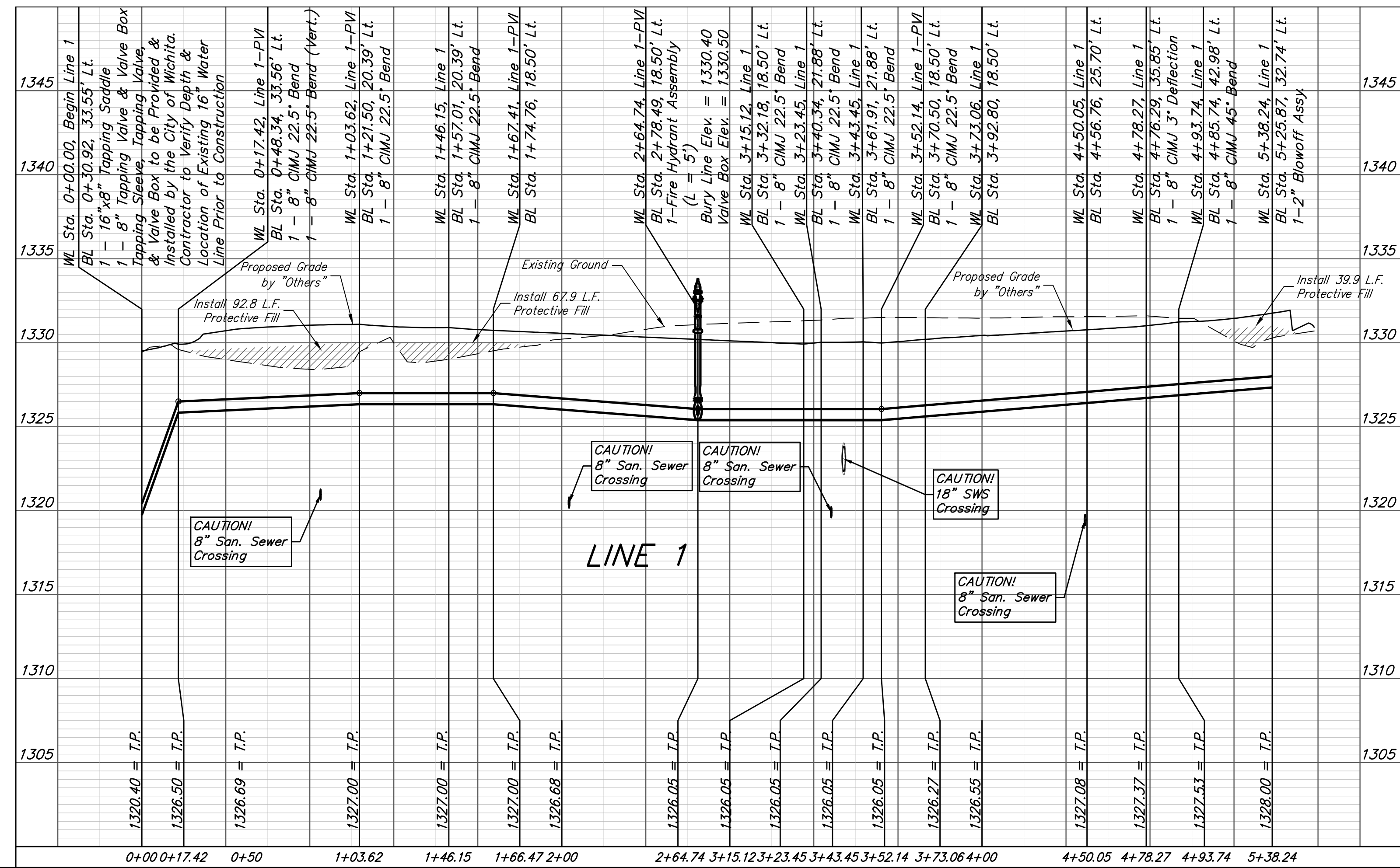
Curve Data Based on Waterline  
 Rad. = 281.5' Delta = 4'15'34" Tangent = 10.47'  
 Arc = 20.93' L.C. = 20.92' Def./Ft. = 6.10527 Min.

| Station | Arc    | 8' Left | Def.     | Total Def. |
|---------|--------|---------|----------|------------|
| 3+51.20 | -      | -       | 0'00'00" | 0'00'00"   |
| 3+72.13 | 20.93' | 19.29'  | 2'07'47" | 2'07'47"   |

Curve #3

Curve Data Based on Waterline  
 Rad. = 281.5' Delta = 20'11'12" Tangent = 50.11'  
 Arc = 76.98' L.C. = 98.67' Def./Ft. = 7.86698 Min.

| Station | Arc    | 8' Right | Def.     | Total Def. |
|---------|--------|----------|----------|------------|
| 3+72.13 | -      | -        | 0'00'00" | 0'00'00"   |
| 3+75.00 | 2.87'  | 3.41'    | 0'22'35" | 0'22'35"   |
| 4+00.00 | 25.00' | 29.68'   | 3'16'40" | 3'39'15"   |
| 4+25.00 | 25.00' | 29.68'   | 3'16'41" | 6'55'56"   |
| 4+49.11 | 24.11' | 28.62'   | 3'09'40" | 10'05'36"  |



**Willow Creek East 4th Addition**  
**LINE 1**  
**Water Distribution System**

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

PROJECT NUMBER: 448-2020-012803  
 DESIGN: AEG  
 DRAWN: HW  
 APPROVED: [Signature]  
 DATE: 09/14/20

REVISIONS:

SCALE: Noted  
 SHEET: **4 OF 12**

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