

SANITARY SEWER IMPROVEMENTS to serve MIES 2ND ADDITION - PHASE 1

CITY OF WICHITA, KANSAS
Paul Gunzelman, P.E., Interim City Engineer
Project Number: 468-2023-025363
Org Code Number: 47269823
Munis Number: E3127

Apex Excavating - Contractor
S. Lowe - City of Wichita, Field Project Engineer
R. Canillo - City of Wichita, Inspector
As-built
Stubs & Risers
Release Date: 7/16/2024
Completion Date:
pdf: apr 8/6/2024

GENERAL NOTES:

1. Contractor will be required to provide notice to utility companies a minimum of forty-eight (72) hours prior to any excavation, as follows:

Kansas One-Call 687-2470

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

Cox Communications 262-4270
Kansas Gas Service 1-888-482
Evergy 353-9620
Black Hills Energy 1-800-353-3327
AT&T 268-2245
City of Wichita Water Dept. 269-4363
City of Wichita Sewer Maint. 269-4924
City of Wichita Storm Sewer Maint. 269-4990
City of Wichita Traffic Maint. 269-4034
Conoco Phillips Pipeline Co. 1-877-267-2290
Southern Star Pipeline Co. 529-6600
Kinder-Morgan Pipeline Co. 1-888-844-5658
2. Utility service lines, poles, valve boxes, meters, and enclosures 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.
3. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.
4. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
5. 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.
6. The Contractor shall be responsible for preserving property trees. The Contractor will be required to re-establish any property trees which are damaged or destroyed by his construction operations. Such trees shall be re-established by a licensed land surveyor in accordance with state laws.
7. 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 BMP's."
8. All excess excavation shall remain on-site and shall be stockpiled or spread at a location determined by the Engineer.
9. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.
10. All areas disturbed by construction within the Mies 2nd Addition are to be seeded as follows:

Seed --- Ryegrass; 5 lbs./1000 Sq. Ft.

All costs associated with seeding including mobilization, preparation of ground, seeding, fertilizing, mulching, etc. shall be included in the U.S. bid item "Seeding".
11. The developer for this project is, Joy Russell, Address: PO Box 23317, Wichita, KS 67272 Phone: 316-990-2105 Email: j@jussellco.com

NW1-04
4649C

SITE CONDITION NOTES:

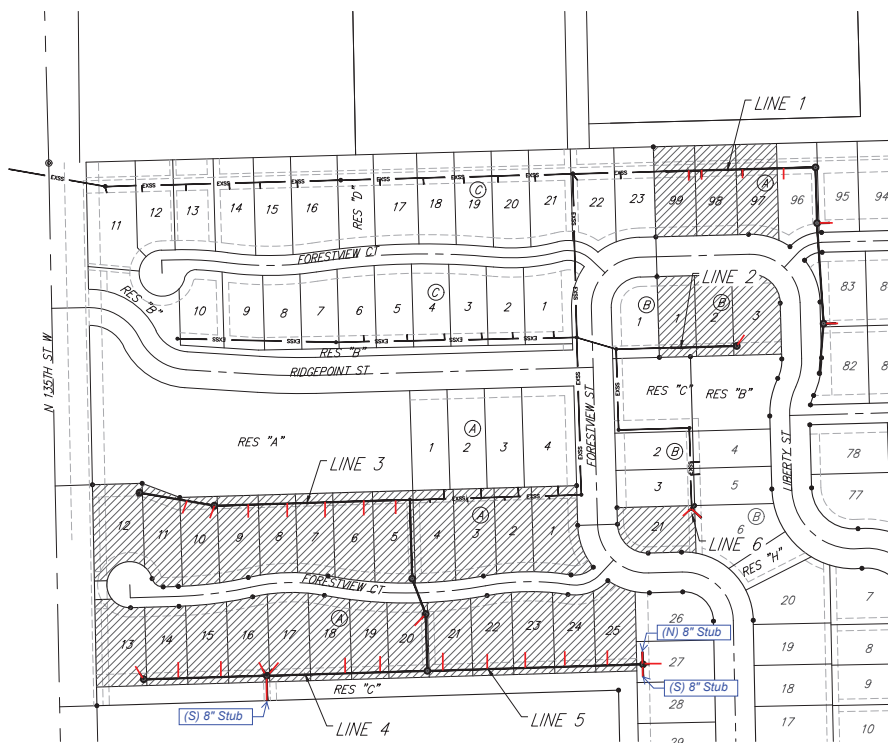
- 1) Eastern Spotted Skunk habitat: The treed area within Mies 2nd Addition plat has been designated as critical habitat for the Eastern Spotted Skunk. A mitigation plan and action permit are in process with KDWP to allow for construction in the critical habitat treed area. Construction and/or tree removal will not be allowed on site until the KDWP mitigation plan and action permit are approved and written permission is obtained from KDWP.
- 2) Construction Sequence: Mies Construction is currently under contract with the developer to remove trees and grade the entire site. No construction will be allowed until Mies Construction has completed the site grading and has an approved as-built. Contractor to coordinate connection to proposed phase 1 utilities with Mies Construction.
- 3) Existing Berm Material: The existing frontage berm along 135th St. W shall be moved as necessary by the contractor to complete sewer, water, storm sewer, and paving construction. The contractor may relocate material in the existing berm to the Lots 15-16, Blk A. Costs of moving the existing berm shall be included in bid item, "Grading, Mass" in the paving project.

BENCHMARKS

CHISELED CROSS ON SE CORNER OF CURB INLET, EAST SIDE OF 135TH ST W, 33' NORTH OF THE NORTH 60' W LINE OF RIDGEPOINT ST.
ELEV. = 1356.64 NAVD88

SQUARE CUT ON NE COR. OF CURB INLET, 2' W. OF SE COR. OF LOT 21, BLOCK "C" MIES ADDITION.
ELEV. = 1355.95 NAVD88

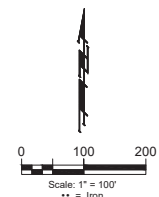
BENEFIT DISTRICT



APPROVED AS NOTED
BY WICHITA PUBLIC WORKS ENGINEERING

Engineering _____

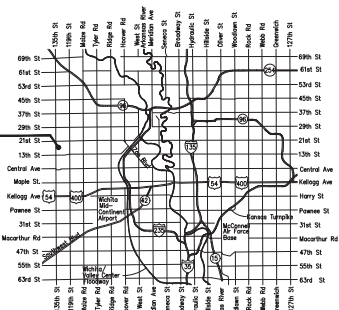
An approved copy of these plans signed by City staff are required on-site.



SHEET INDEX

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SITE



VICINITY MAP

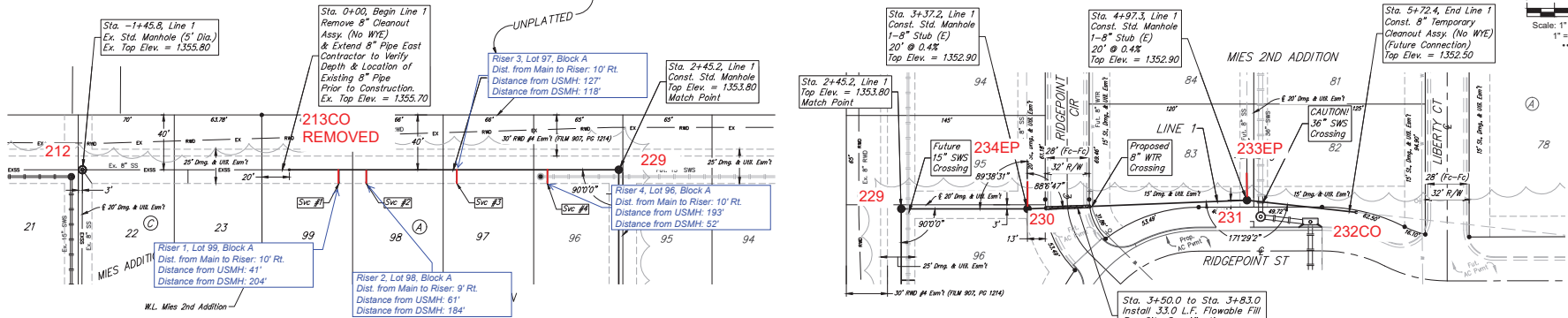


September 21, 2023

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

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BENCHMARKS:
 CRISLEIGH CROSS ON SE CORNER OF CURB INLET, EAST SIDE OF 135TH ST. N. 32' NORTH OF THE NORTH R/W LINE OF RIDGEPOINT ST. ELEV. = 1356.64 NAVD88
 SQUARE CUT ON NE COR. OF CURB INLET, 2' N. OF SE COR. OF LOT 21, BLOCK "C", MIES ADDITION. ELEV. = 1355.95 NAVD88

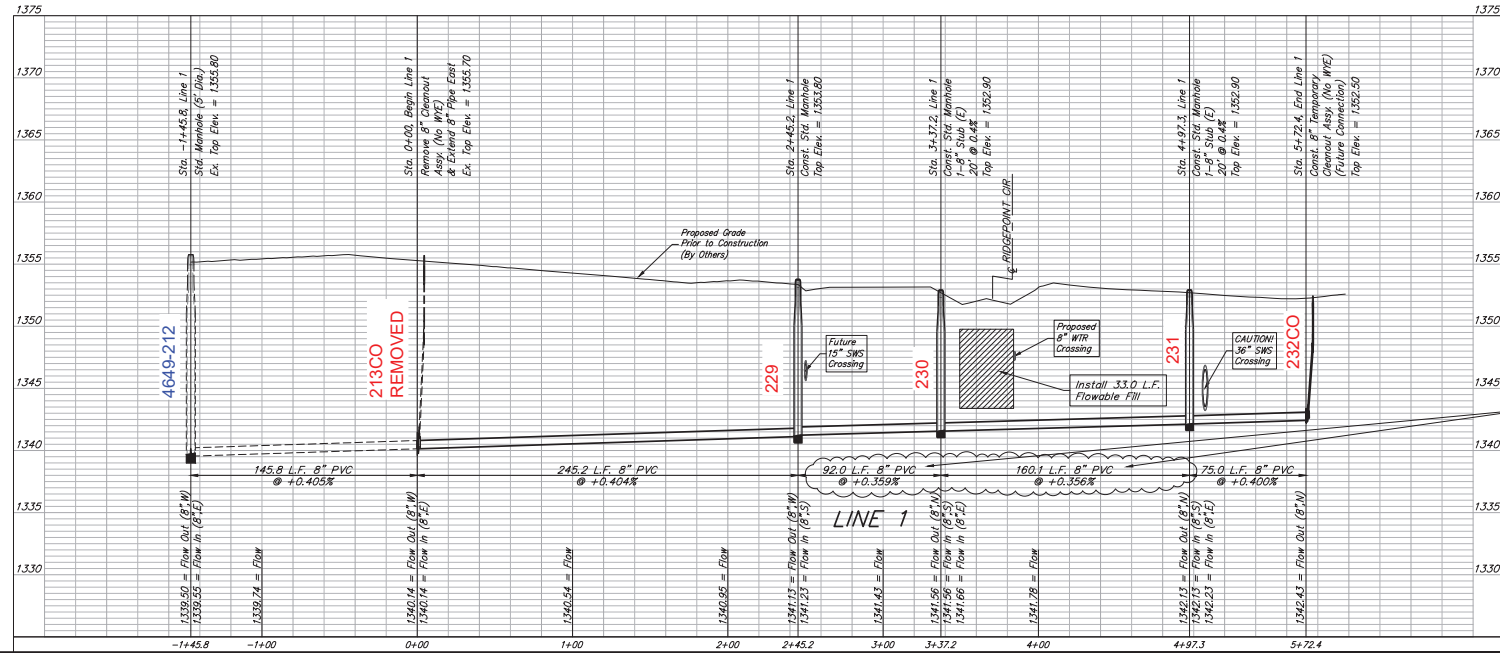


Sta. 3+50.0 to Sta. 3+83.0
 Install 33.0 L.F. Flowable Fill
 Per City Specifications.
 Fill to Elev. 1349.80

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROX. LENGTH	4" PIPE HORIZONTAL
1	8" x 4" Tee	99	A	1	0+41.30/RT	9.5	10.0
2	8" x 4" Tee	98	A	1	0+21.30/RT	9.0	10.0
3	8" x 4" Tee	97	A	1	1+27.30/RT	8.0	10.0
4	8" x 4" Tee	98	A	1	1+33.30/RT	7.2	10.0

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



From Sta. 2+45.2 to Sta. 4+97.3, Line 1 8" pipe shall be built at 0.36% to avoid existing 36" SWS crossing conflict. All other proposed & future SS pipe shall meet City of Wichita minimum pipe slope requirements of 0.4%

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MIES 2ND ADDITION
 PHASE 1

LINE 1

SANITARY SEWER IMPROVEMENTS

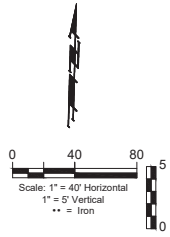
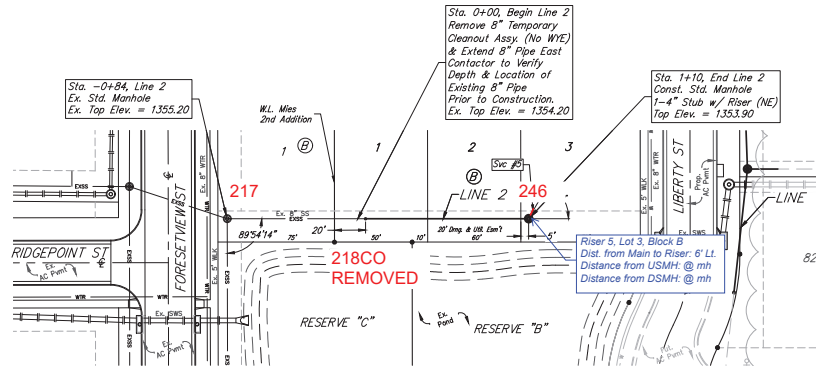
PROJECT NUMBER:
 468-2023-025363

DESIGN: CDW DRAWN: CDW
 DATE: September 21, 2023

SHEET OF
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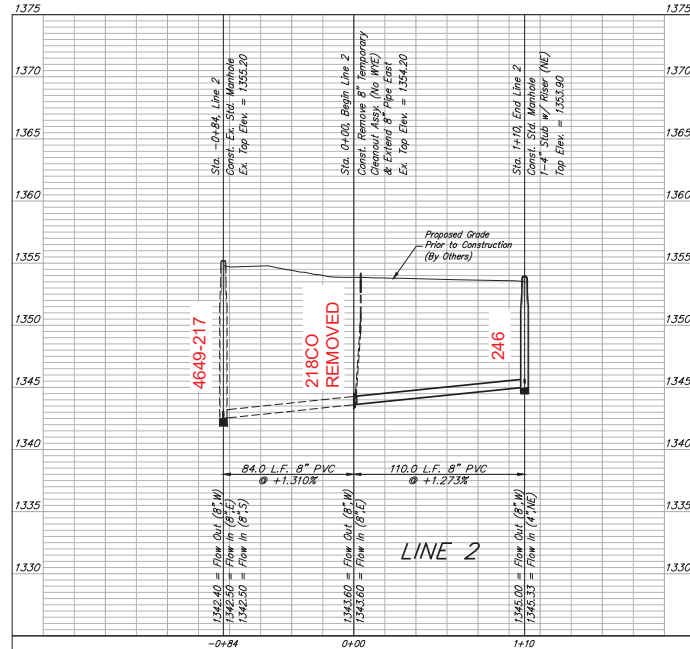
BENCHMARKS:
 CHISELED CROSS ON SE CORNER OF CURB INLET, EAST SIDE OF 135TH ST W. 32' NORTH OF THE NORTH R/W LINE OF RIDGEPOINT ST.
 ELEV. = 1356.64 NAVD88
 SQUARE CUT ON NE COR. OF CURB INLET, 2' W. OF SE COR. OF LOT 21, BLOCK "C", MIES ADDITION.
 ELEV. = 1355.95 NAVD88



SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROX. LENGTH 4\"/>
5	4\"/>					

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



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MIES 2ND ADDITION
 PHASE 1

LINE 2

SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER:
 468-2023-025363

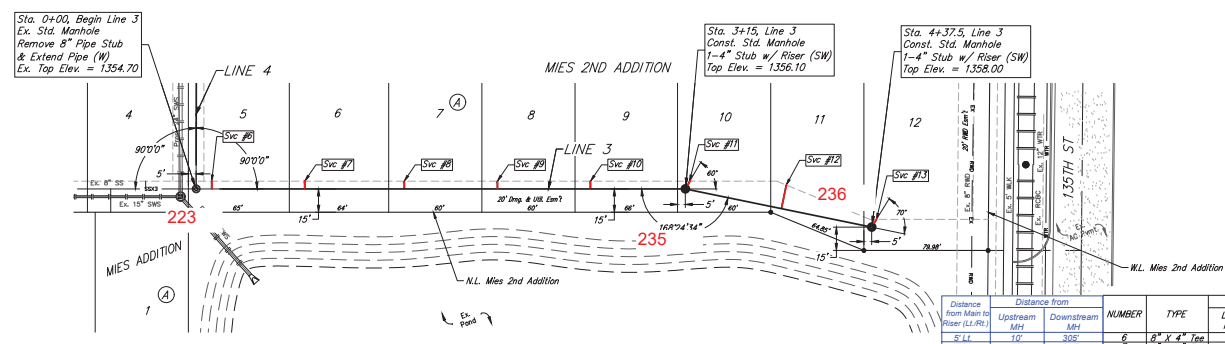
DESIGN: CDW DRAWN: CDW
 DATE: September 21, 2023

SHEET **3** OF **21**

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BENCHMARK:
 CHISELED CROSS ON SE CORNER OF CURB INLET, EAST SIDE OF 135TH ST W. 32' NORTH OF THE NORTH R/W LINE OF RIDGEPOINT ST. ELEV. = 1356.64 NAVD88

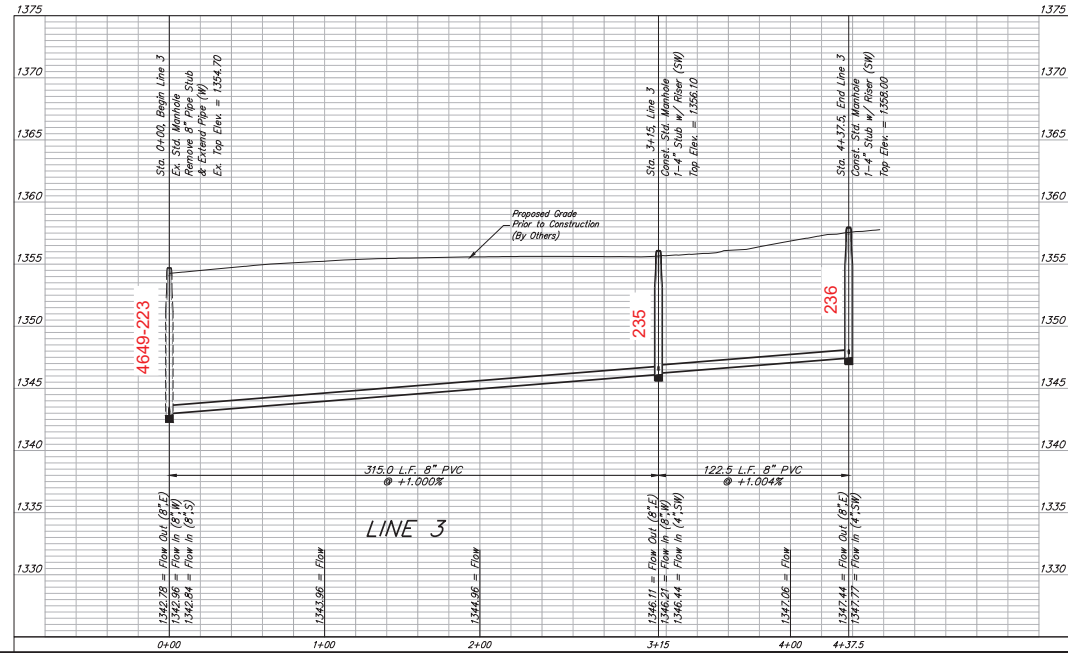
SQUARE CUT ON NE COR. OF CURB INLET, 2' W. OF SE COR. OF LOT 21, BLOCK "C", MIES ADDITION. ELEV. = 1355.99 NAVD88



SEWER SERVICE TABLE

Distance from Man to Riser (L-R)	Distance from		NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
	Upstream	Downstream			LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROX. LENGTH 4" PIPE	VERTICAL
S-L 102	300'		6	8" x 4" Tee	5	E	→	0+10.00/L	6.5	3.0
S-L 70	245'		7	8" x 4" Tee	6	A	→	0+70.00/L	6.4	3.0
S-L 134	181'		8	8" x 4" Tee	7	A	→	1+34.00/L	6.2	3.0
S-L 194	121'		9	8" x 4" Tee	8	A	→	1+94.00/L	5.8	3.0
S-L 254	61'		10	8" x 4" Tee	9	A	→	2+54.00/L	5.2	3.0
S-L 314	@ mh	@ mh	11	4" Stub	10	A	→	3+14.00/L	5.5	6'-5.5'
S-L 374	59'		12	8" x 4" Tee	11	A	→	3+74.00/L	5.5	16'-15.5'
8" L	@ mh	@ mh	13	4" Stub	12	A	→	4+37.50/L	5.1	6'-3.5'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



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MIES 2ND ADDITION
 PHASE 1

LINE 3

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:
 468-2023-025363

DESIGN: CDW DRAWN: CDW
 DATE: September 21, 2023

SHEET **4** OF **21**

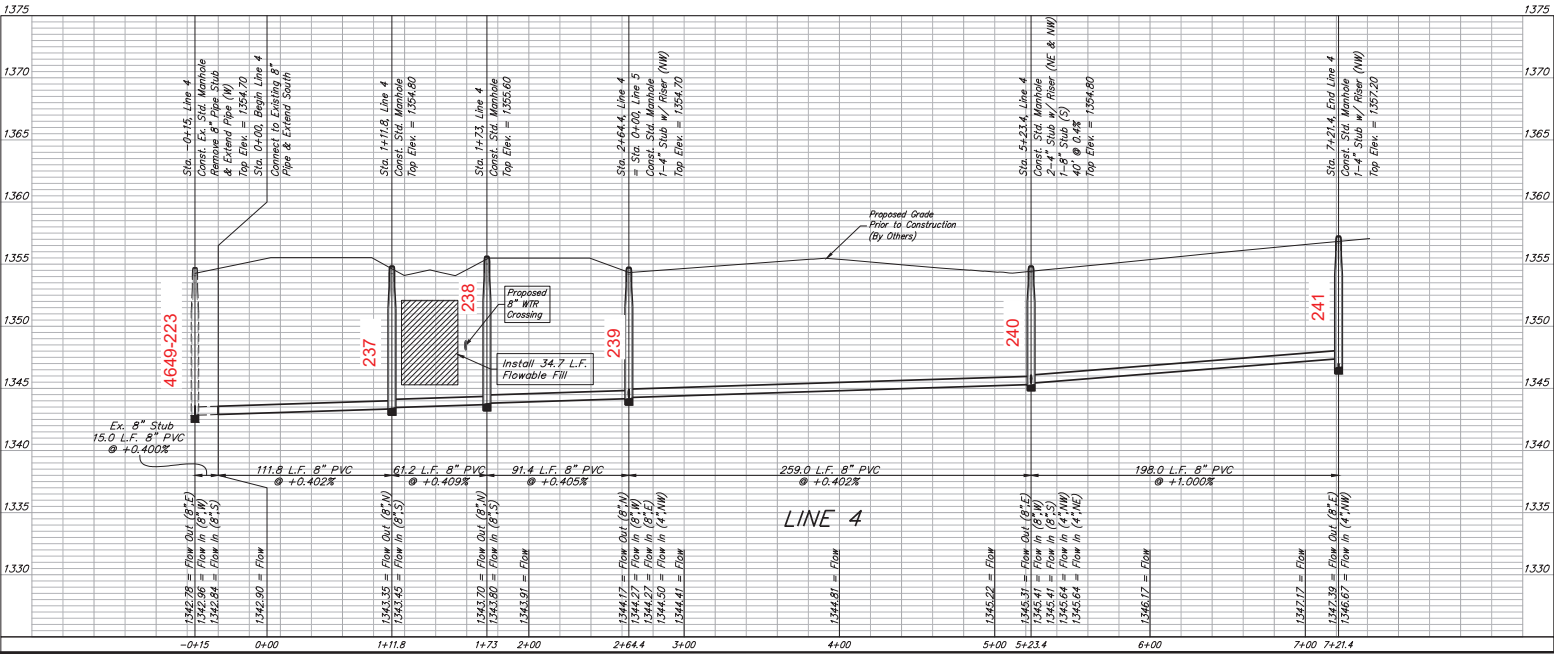
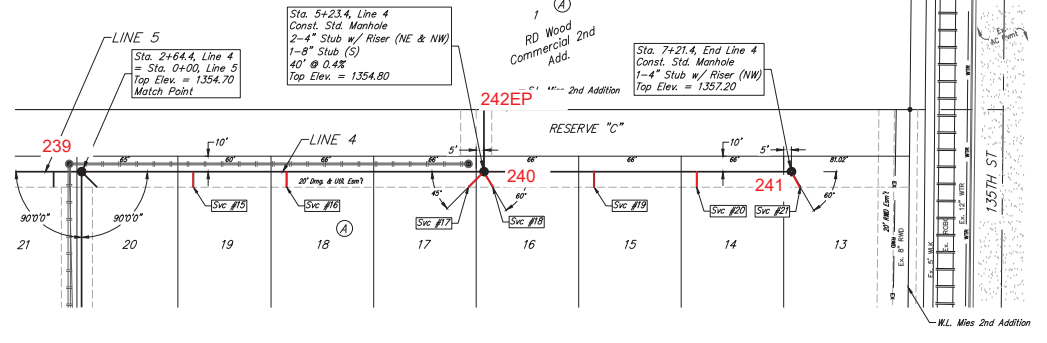
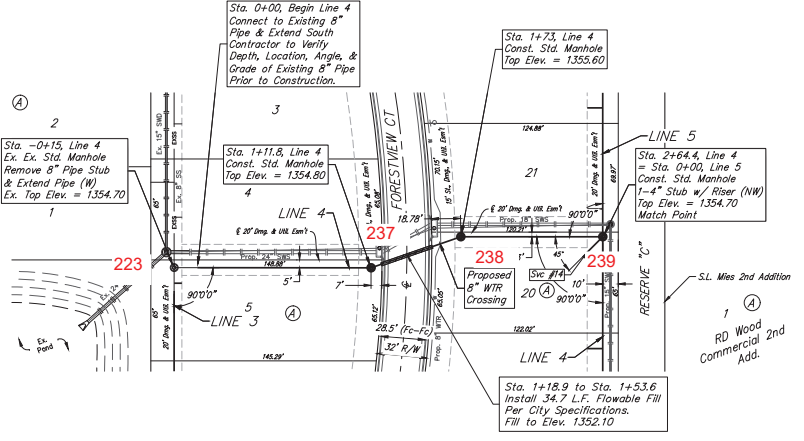
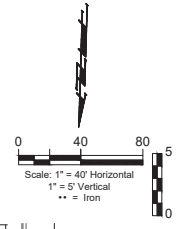
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BENCHMARKS:
 CROSSLEZ CROSS ON SE CORNER OF CURB INLET, EAST SIDE OF 135TH ST W. 32' NORTH OF THE NORTH R/W LINE OF RIDGEPOINT ST.
 ELEV. = 1356.64 NAVD88
 SQUARE CUT ON NE COR. OF CURB INLET, 2' W. OF SE COR. OF LOT 21, BLOCK "C", MIES ADDITION.
 ELEV. = 1355.95 NAVD88

SEWER SERVICE TABLE

Distance from Man to Riser (ft.)	Upstream MH	Downstream MH	NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
					LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROX. LENGTH 4" PIPE	VERTICAL HORIZONTAL
14	8" dia	8" dia	14	4" Stub	20	A	4	2+24.40/RI	3.9	14.6
10	8" dia	18"	15	8" x 4" Tee	19	A	4	3+36.40/RI	3.5	10.0
10	8" dia	12"	16	8" x 4" Tee	18	A	4	3+36.40/RI	3.6	10.0
14	8" dia	8" dia	17	4" Stub	17	A	4	5+21.40/RI	4.9	14.4
12	8" dia	8" dia	18	4" Stub	18	A	4	5+21.40/RI	4.9	12.4
10	8" dia	12"	19	8" x 4" Tee	15	A	4	5+34.40/RI	3.0	10.0
10	8" dia	6"	20	8" x 4" Tee	14	A	4	6+60.40/RI	3.4	10.0
12	8" dia	8" dia	21	4" Stub	13	A	4	7+21.40/RI	3.3	12.4

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



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MIES 2ND ADDITION
 PHASE 1

LINE 4

SANITARY SEWER IMPROVEMENTS

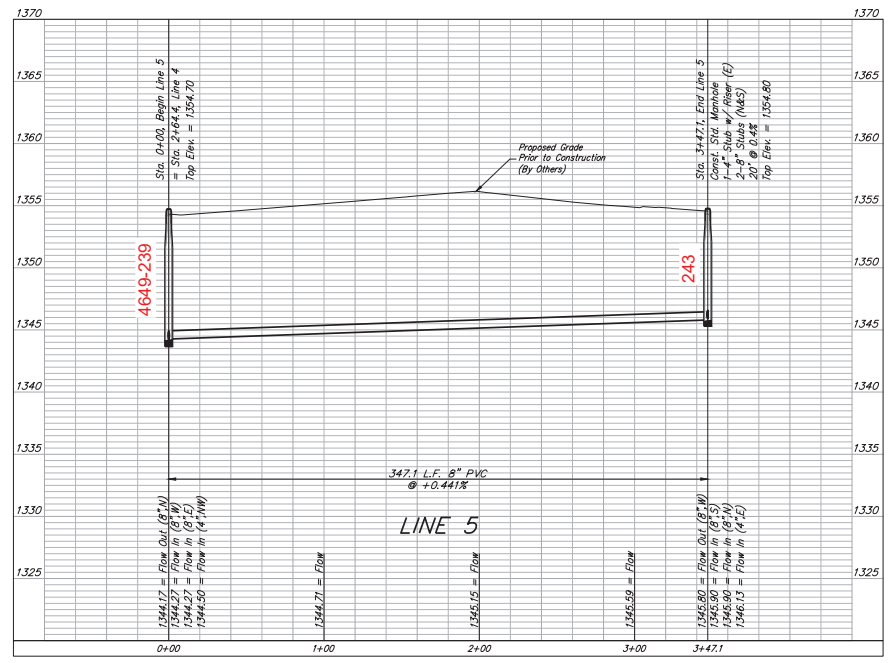
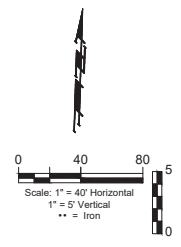
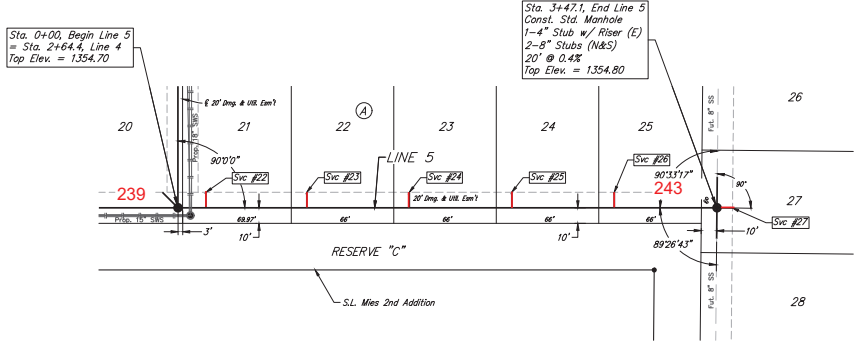
PROJECT NUMBER:
 468-2023-025363

DESIGN: CDW DRAWN: CDW
 DATE: September 21, 2023

SHEET **5** OF **21**

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BENCHMARKS:
 CHISELED CROSS ON SE CORNER OF CURB INLET, EAST SIDE OF 135TH ST W, 32' NORTH OF THE NORTH R/W LINE OF RIDGEPOINT ST.
 ELEV. = 1356.64 NAVD88
 SQUARE CUT ON NE COR. OF CURB INLET, 2' W. OF SE COR. OF LOT 21, BLOCK "C", MIES ADDITION.
 ELEV. = 1355.95 NAVD88



SEWER SERVICE TABLE

Distance from Man to Riser (L+R/L)	Distance from		NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
	Upstream MH	Downstream MH			LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROX. LENGTH	PIPE VERTICAL HORIZONTAL
10' L+	18'	325'	23	8" x 4" Top	21	A	5	0+18.00/L+	5.3	10.0
10' L+	63'	261'	24	8" x 4" Top	22	A	5	0+63.00/L+	5.5	10.0
10' L+	149'	198'	25	8" x 4" Top	23	A	5	1+49.00/L+	5.8	10.0
10' L+	219'	132'	26	8" x 4" Top	24	A	5	2+19.00/L+	4.7	10.0
10' L+	331'	66'	27	8" x 4" Top	25	A	5	2+31.00/L+	4.7	10.0
10' L+	@ mh	@ mh	27	4" Stub	27	A	5	3+47.10/L+	4.5	10.0

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

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MIES 2ND ADDITION
 PHASE 1

LINE 5

SANITARY SEWER IMPROVEMENTS

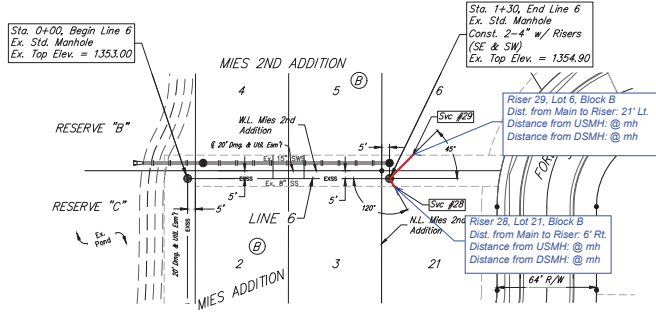
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DESIGN: CDW DRAWN: CDW
 DATE: September 21, 2023

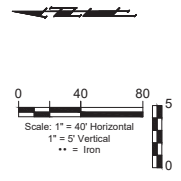
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BENCHMARKS:
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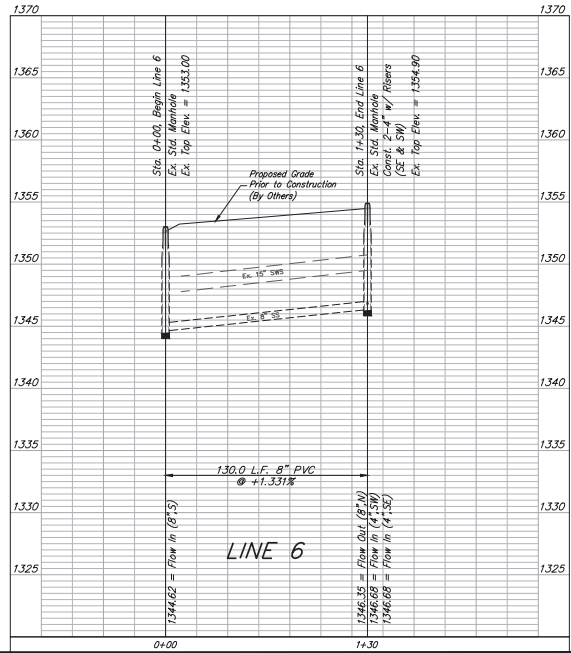
Seal & Grout Around New 4" Pipe Using Non-Shrink Grout. Cost of Coring, Sealing, & Grouting to be Included in "Riser Assembly 4", Manhole Stub" Bid Item.



SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROX. LENGTH 4" PIPE	VERTICAL / HORIZONTAL
28	4" Stub	21	B	6	1+30.00/RT.	4.2	0 / 4.2
29	4" Stub	6	B	6	1+30.00/LI.	3.8	2.1 / 2.3

NOTE: Vertical Riser Pipe shall be oriented to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



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MIES 2ND ADDITION
 PHASE 1

LINE 6

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:
 468-2023-025363

DESIGN: CDW DRAWN: CDW
 DATE: September 21, 2023

SHEET 7 OF 21

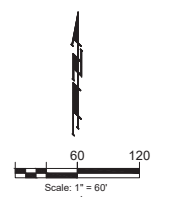
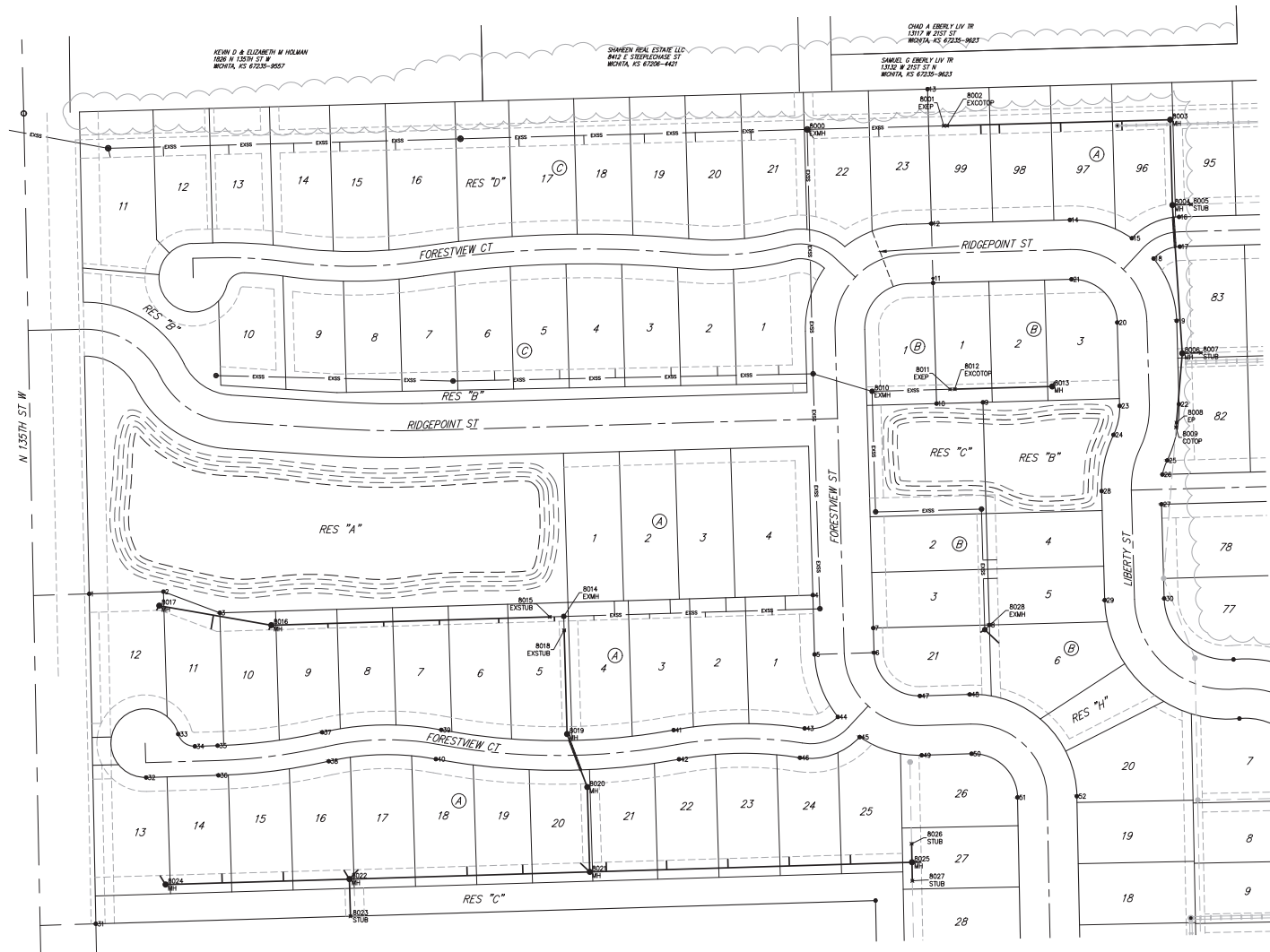
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BENCHMARK:
 CHISELED CROSS ON SE CORNER OF CURB INLET, EAST SIDE OF 135TH ST W. 32' NORTH OF THE NORTH R/W LINE OF RIDGEPOINT ST. ELEV. = 1356.64 NAVD88

SQUARE CUT ON NE COR. OF CURB INLET, 2' N. OF SE COR. OF LOT 21, BLOCK "C", MIES ADDITION. ELEV. = 1355.95 NAVD88

Point	Northing	Easting	Desc.
1	1,695,047.74	16,019,633.34	IRON
2	1,695,050.12	16,020,432.28	IRON
3	1,695,027.32	16,021,033.99	IRON
4	1,695,046.36	16,027,426.64	IRON
5	1,694,982.47	16,027,444.47	IRON
6	1,694,984.36	16,028,084.44	IRON
7	1,695,010.87	16,028,076.68	IRON
8	1,695,014.24	16,029,322.64	IRON
9	1,695,254.14	16,029,225.77	IRON
10	1,695,252.80	16,028,757.79	IRON
11	1,695,387.74	16,028,719.93	IRON
12	1,695,446.72	16,028,702.24	IRON
13	1,695,591.66	16,028,666.09	IRON
14	1,695,450.73	16,030,193.37	IRON
15	1,695,430.90	16,030,066.08	IRON
16	1,695,453.90	16,031,362.94	IRON
17	1,695,421.91	16,031,378.80	IRON
18	1,695,409.13	16,031,098.54	IRON
19	1,695,341.98	16,031,344.34	IRON
20	1,695,340.15	16,030,705.37	IRON
21	1,695,386.76	16,030,211.00	IRON
22	1,695,252.11	16,031,362.92	IRON
23	1,695,250.28	16,030,724.94	IRON
24	1,695,219.07	16,030,666.35	IRON
25	1,695,191.53	16,031,242.12	IRON
26	1,695,176.32	16,031,187.97	IRON
27	1,695,144.28	16,031,179.99	IRON
28	1,695,158.50	16,030,535.56	IRON
29	1,695,040.96	16,030,566.93	IRON
30	1,695,042.79	16,031,203.90	IRON
31	1,694,692.18	16,019,705.51	IRON
32	1,694,849.87	16,020,244.70	IRON
33	1,694,896.67	16,020,592.27	IRON
34	1,694,883.45	16,020,777.17	IRON
35	1,694,884.18	16,021,016.61	IRON
36	1,694,852.19	16,021,022.57	IRON
37	1,694,898.58	16,021,214.20	IRON
38	1,694,867.38	16,022,213.33	IRON
39	1,694,901.14	16,023,425.55	IRON
40	1,694,869.69	16,023,366.68	IRON
41	1,694,900.96	16,025,922.66	IRON
42	1,694,869.50	16,025,984.49	IRON
43	1,694,902.76	16,027,333.77	IRON
44	1,694,915.15	16,027,694.48	IRON
45	1,694,893.44	16,027,933.00	IRON
46	1,694,871.16	16,027,728.74	IRON
47	1,694,937.77	16,028,875.85	IRON
48	1,694,939.38	16,029,151.59	IRON
49	1,694,873.80	16,028,597.76	IRON
50	1,694,875.41	16,029,133.50	IRON

Point	Northing	Easting	Desc.
51	1,694,828.40	16,029,629.92	IRON
52	1,694,829.69	16,030,262.91	IRON
8000	1,695,548.15	16,027,364.43	EXMH
8001	1,695,552.11	16,028,883.58	EXEP
8002	1,695,552.21	16,028,887.23	EXCOTOP
8003	1,695,558.68	16,031,272.29	MH
8004	1,695,466.71	16,031,297.77	MH
8005	1,695,467.38	16,031,497.76	STUB
8006	1,695,306.94	16,031,403.35	MH
8007	1,695,307.48	16,031,603.34	STUB
8008	1,695,232.17	16,031,341.17	EP
8009	1,695,227.18	16,031,333.75	COTOP
8010	1,695,265.93	16,028,906.39	EXMH
8011	1,695,268.19	16,028,906.36	EXEP
8012	1,695,268.33	16,028,905.35	EXCOTOP
8013	1,695,271.16	16,030,000.32	MH
8014	1,695,023.36	16,024,742.27	EXMH
8015	1,695,022.92	16,024,592.28	EXSTUB
8016	1,695,013.96	16,021,594.41	MH
8017	1,695,034.98	16,020,378.73	MH
8018	1,695,008.37	16,024,742.72	EXSTUB
8019	1,694,896.60	16,024,777.93	MH
8020	1,694,839.42	16,024,699.66	MH
8021	1,694,748.08	16,025,022.39	MH
8022	1,694,740.35	16,022,435.51	MH
8023	1,694,700.37	16,022,447.70	STUB
8024	1,694,734.44	16,020,455.59	MH
8025	1,694,758.44	16,028,494.31	MH
8026	1,694,778.44	16,028,484.90	STUB
8027	1,694,738.44	16,028,497.71	STUB
8028	1,695,009.11	16,029,277.78	EXMH



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MIES 2ND ADDITION
 PHASE 1

COORDINATES

SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER:
 468-2023-025363

DESIGN: CDW DRAWN: CDW
 DATE: September 21, 2023

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