

SANITARY SEWER IMPROVEMENTS

to serve

WILLOW CREEK EAST 3RD ADDITION - PHASE III

CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E., Interim City Engineer

Project Number: 468-85403

Org Code: 47267619

Munis Number: E9141

GENERAL NOTES:

- 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:
 Cox Communications 262-4270
 Kansas Gas Service 1-888-482-4850
 Westar Energy 383-8650
 Aquila Energy 1-800-303-0357
 41417
 City of Wichita Water Dept. 268-4563
 City of Wichita Sewer Maint. 268-4024
 City of Wichita Storm Sewer Maint. 268-4090
 City of Wichita Traffic Maint. 268-4034
 Conoco Phillips Pipeline Co. 1-877-267-2290
 Southern Star Pipeline Co. 529-6600
 Kinder-Morgan Pipeline Co. 1-888-844-5658
- Utility service lines, poles, valve boxes, meters, and etcetera 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 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 archeological 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 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.
- All existing and proposed erosion control measures including silt fencing, erosion control mat, straw bales, silt barriers, and canal 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."
- All excess excavation shall be removed from the site by the Contractor. Cost shall be included in lump sum bid item "Site Restoration".
- 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.
- All areas disturbed by 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".
- Trees and shrubs in the work area which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY as necessary for Construction. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage. If trimming is necessary, a chainsaw shall be used. Breaking limbs with equipment will not be allowed.
- The Developer for this project is Paul Kelsey
 716 N. 119th St. #112, Wichita, KS 67212
 PH# (316)722-1077 email paulkelsey@gmail.com

4MC-SC
6245D

Nowak Construction - Contractor
 K. Kerns - City of Wichita, Field Project Engineer
 A. Baiton - City of Wichita, Inspector
 AS-built
 Stub & Risers
 Release Date: 4/28/2024
 Compilation Date:
 pdf: 7/16/2024 apr

BENCHMARKS

Brass benchmark disc in top of curb, east of wheelchair ramp
 NE cor. of Funston and Lynsore
 Elev. = 1343.69 NAVD88
 Brass benchmark disc in top of curb, north of wheelchair ramp
 NW cor. of Funston and Lynsore
 Herrington
 Elev. = 1344.71 NAVD88

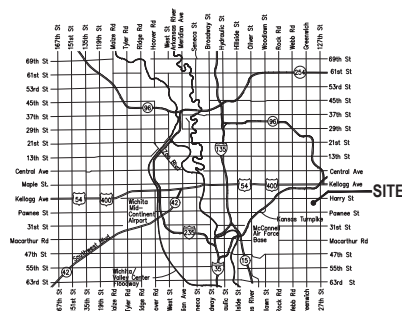
SHEET INDEX

Title Sheet	1
Line 1	2
Line 2	3
Risers Installed on Existing Line	4
Erosion Control Plan	5
Erosion Control BMP Details	6-10
Standard Manhole Details	11
Frame & Cover Detail	12
Vertical Riser Detail	13
Coordinate Sheet	14
Copy of Plot	15



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VICINITY MAP



BENEFIT DISTRICT



July 17, 2023

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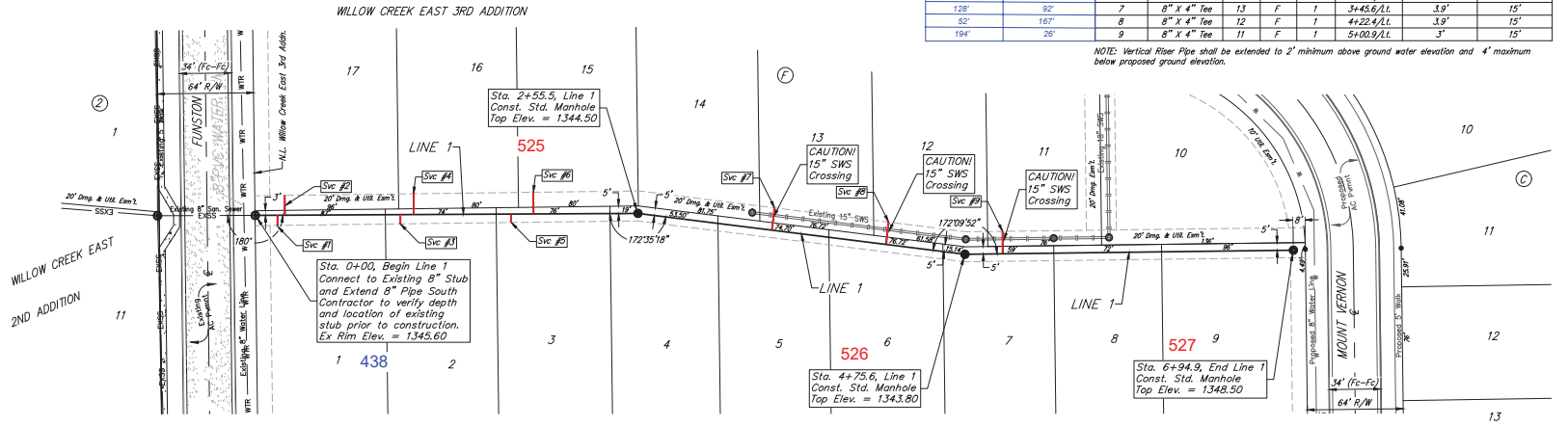
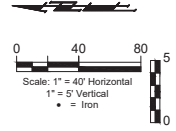
BENCHMARKS:
 Brass benchmark disc in top of curb, east of wheelchair ramp
 NE cor. of Funston and Lynrae
 Elev. = 1343.69 NAVD88

Brass benchmark disc in top of curb, north of wheelchair ramp
 NW cor. of Funston and Herington
 Elev. = 1344.71 NAVD88

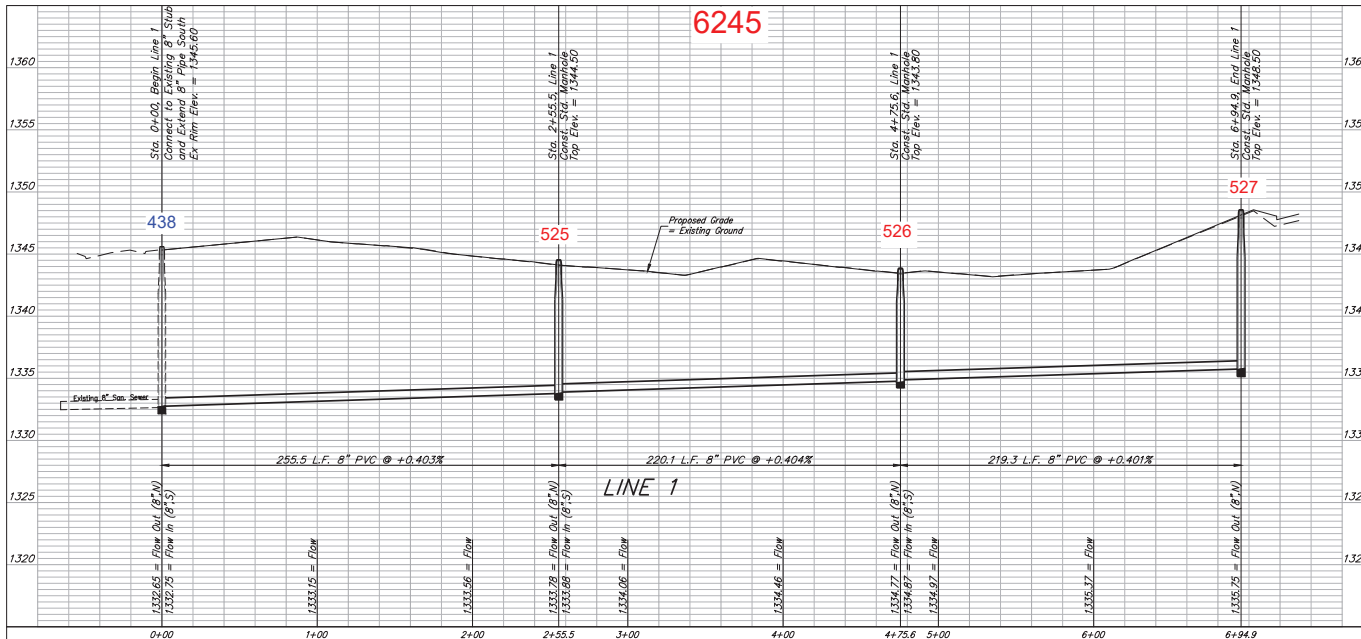
SEWER SERVICE TABLE

UPSTREAM MH	DOWNSTREAM MH	NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
				LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	VERTICAL
236'	16'	1	8" X 4" Tee	1	F	1	0+15.0/RL	7.5'	2"
232'	20'	2	8" X 4" Tee	17	F	1	0+20.0/LL	7.4'	14'
154'	90'	3	8" X 4" Tee	2	F	1	0+37.0/RL	8'	6'
146'	106'	4	8" X 4" Tee	16	F	1	1+05.8/LL	7.5'	14'
82'	171'	5	8" X 4" Tee	3	F	1	1+71.0/RL	6.9'	6'
184'	184'	6	8" X 4" Tee	15	F	1	1+85.0/LL	6.2'	15'
128'	92'	7	8" X 4" Tee	13	F	1	3+45.6/LL	3.9'	15'
52'	167'	8	8" X 4" Tee	12	F	1	4+22.4/LL	3.9'	15'
194'	26'	9	8" X 4" Tee	11	F	1	5+00.9/LL	3'	15'

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



WILLOW CREEK EAST 3RD ADDITION



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WILLOW CREEK EAST 3RD ADDITION - PHASE III

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:
468-85403

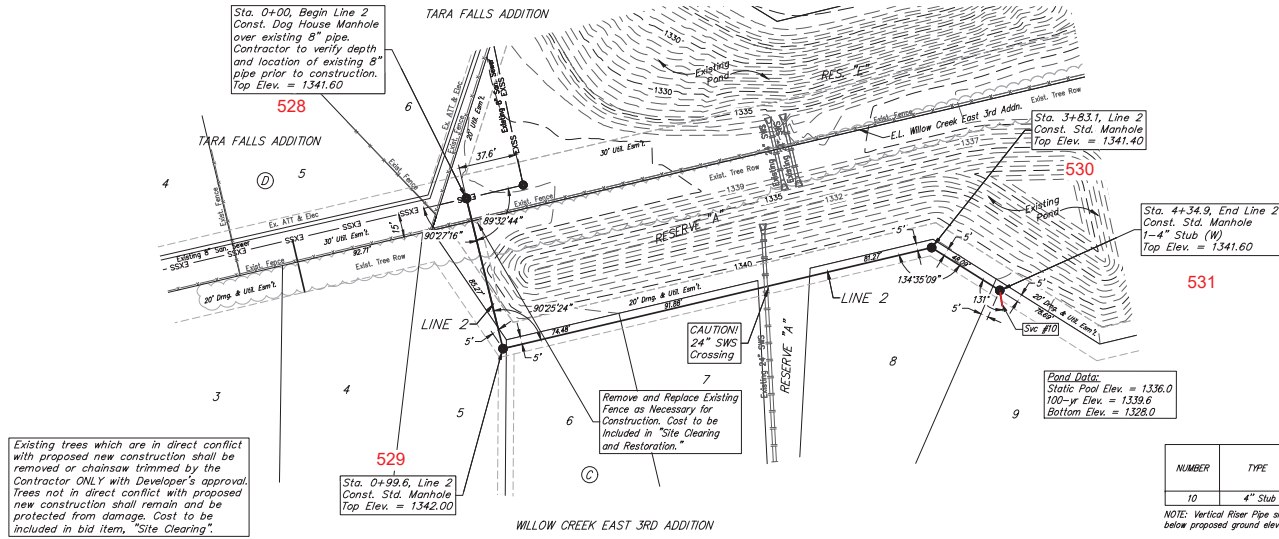
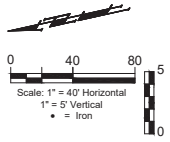
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 DATE: July 17, 2023

SHEET **2** OF **15**

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BENCHMARKS:
 Brass benchmark disc in top of curb, east of wheelchair ramp NE cor. of Funston and Lynnroe Elev. = 1343.69 NAVD88

Brass benchmark disc in top of curb, north of wheelchair ramp NW cor. of Funston and Herrington Elev. = 1344.71 NAVD88



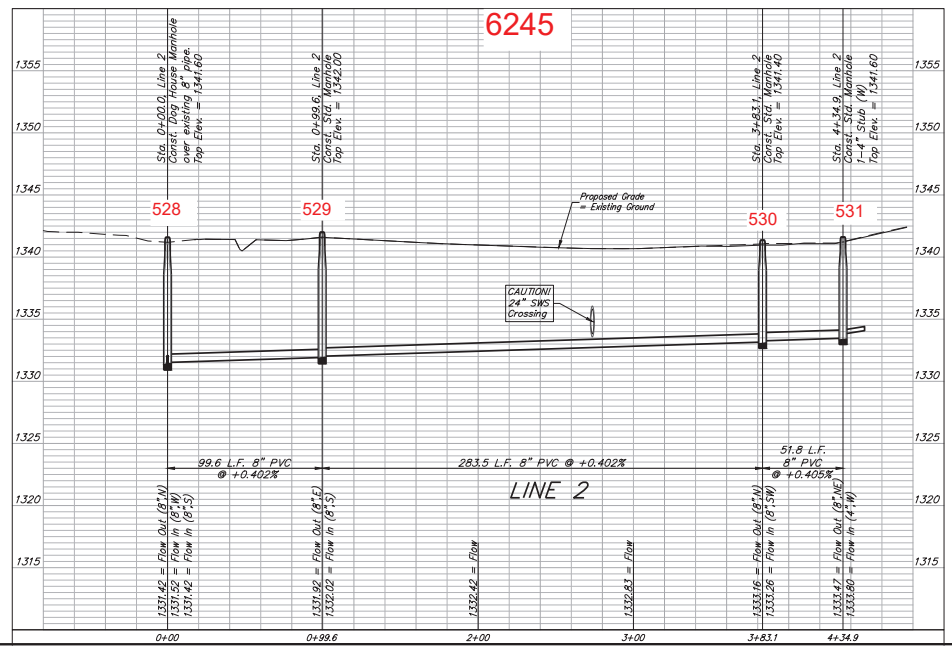
Existing trees which are in direct conflict with proposed new construction shall be removed or chainsaw trimmed by the Contractor ONLY with Developer's approval. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost to be included in bid item, "Site Clearing".

CAUTION!
 24" SWS Crossing

Pool Data:
 Static Pool Elev. = 1336.0
 100'-w Elev. = 1339.6
 Bottom Elev. = 1328.0

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	APPROXIMATE LENGTH 10" PIPE
10	4" Stub	9	C	2	4+34.9/RL	4'	10'

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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WILLOW CREEK EAST 3RD ADDITION - PHASE III

LINE 2

SANITARY SEWER IMPROVEMENTS
 PROJECT NUMBER: 468-85403
 DESIGN: DMV DRAWN: JAK
 DATE: July 17, 2023

SHEET **3** OF **15**

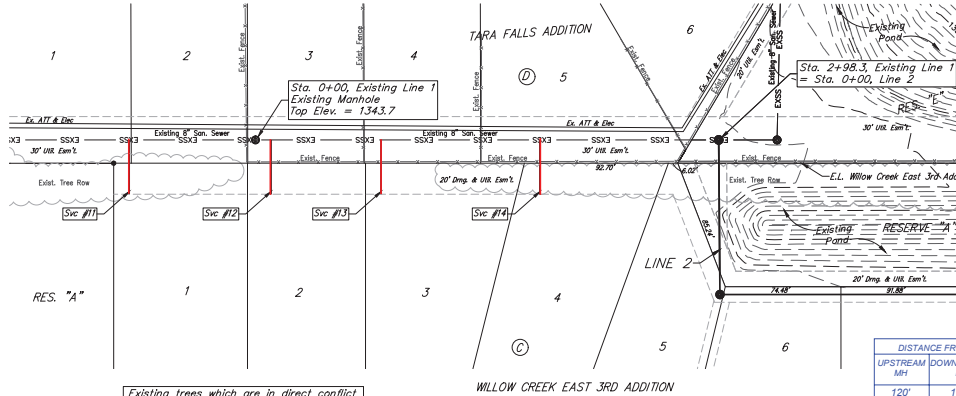
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BENCHMARKS:
 Brass benchmark disc in top of curb, east of wheelchair ramp NE cor. of Funston and Lynnroe Elev. = 1343.69 NAVD88

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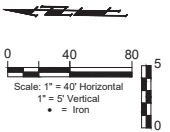
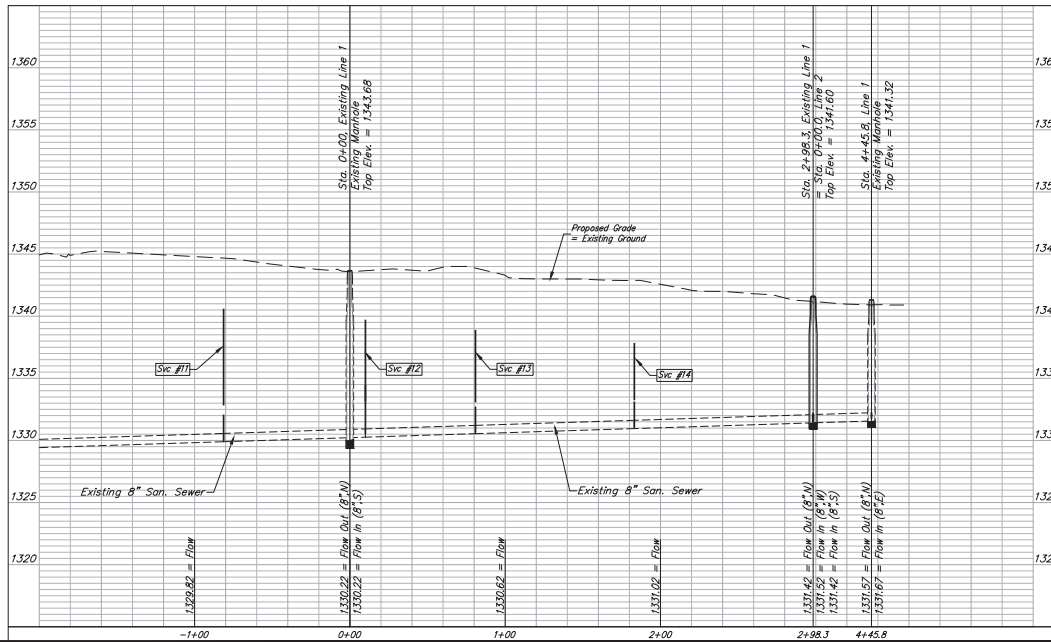
Note: Contractor to Remove and Replace Existing Fences as Necessary for Construction. Existing Grass and Underground Sprinklers in Tara Falls Addition Damaged During Construction shall be Replaced with Sod and Repaired to Pre-Construction Condition. Cost shall be Included in "Site Clearing & Restoration".

Note: Locations of Service Risers may be Field Adjusted at the Discretion of the Field Engineer to Minimize Damage to any Existing Landscaping or Sprinklers in Tara Falls Addition Lots, Provided that Location of Service Riser Remains Within Lot Lines of the Willow Creek East 3rd Addition Lot that is being Served.



Existing trees which are in direct conflict with proposed new construction shall be removed or chainsaw trimmed by the Contractor ONLY with Developer's approval. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost to be included in bid item, "Site Clearing".

DISTANCE FROM UPSTREAM MH	DOWNSTREAM MH	NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
				LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	
							VERTICAL	HORIZONTAL	
120'	178'	11	8" X 4" Tee Saddle	1	C	Ex. Line 1	-0+81.3/R/L	10"	35'
208'	90'	12	8" X 4" Tee Saddle	2	C	Ex. Line 1	0+10.0/R/L	8.7"	35'
290'	9'	13	8" X 4" Tee Saddle	3	C	Ex. Line 1	0+80.9/R/L	7.7"	35'
50'	327'	14	8" X 4" Tee Saddle	4	C	Ex. Line 1	1+81.2/R/L	6.2"	35'



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WILLOW CREEK EAST 3RD ADDITION - PHASE III

RISERS INSTALLED ON EXISTING LINE

SANITARY SEWER IMPROVEMENTS

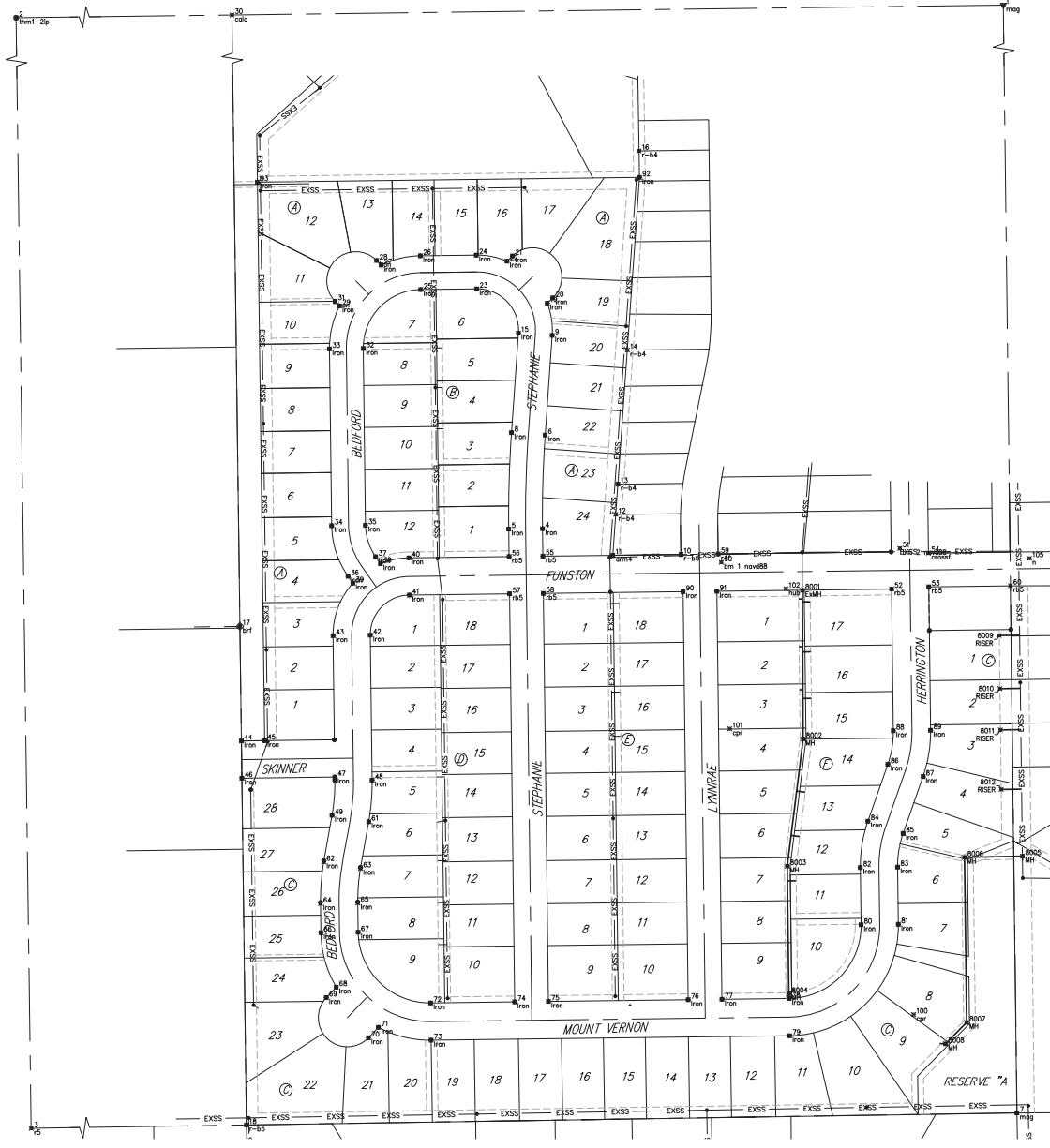
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DESIGN: DMV DRAWN: JAK

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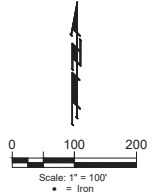
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CONTROL POINTS			
Point	Northing	Easting	Desc
1	1,678,375.07	1688991.94	mag
2	1,678,341.15	1686342.75	thm1-2p
3	1,675,680.22	1686378.99	r5
4	1,676,725.30	1688210.46	iron
5	1,676,724.57	1688152.47	iron
6	1,676,886.11	1688215.06	iron
7	1,675,721.72	1689925.23	mag
8	1,676,890.15	1688157.20	iron
9	1,677,057.23	1688227.01	iron
10	1,676,681.05	1688448.22	r-85
11	1,676,679.54	1688531.22	orm4
12	1,676,749.74	1688336.25	r-84
13	1,676,801.91	1688339.83	r-84
14	1,677,031.99	1688556.15	r-84
15	1,677,061.26	1688169.15	iron
16	1,677,374.16	1688376.33	r-84
17	1,676,557.50	1687890.91	brf
18	1,675,700.98	1687702.13	r-85
19	1,677,121.56	1688218.70	iron
20	1,677,121.62	1688228.14	iron
21	1,677,193.72	1688158.84	iron
22	1,677,184.66	1688149.41	iron
23	1,677,137.20	1688097.46	iron
24	1,677,195.19	1688096.74	iron
25	1,677,136.00	1688001.32	iron
26	1,677,194.00	1688000.60	iron
27	1,677,178.03	1687933.33	iron
28	1,677,185.97	1687925.54	iron
29	1,677,108.01	1687861.93	iron
30	1,678,358.11	1687867.34	calc
31	1,677,115.95	1687854.15	iron
32	1,677,034.77	1687902.58	iron
33	1,677,034.04	1687844.58	iron
34	1,676,730.38	1687848.37	iron
35	1,676,731.10	1687906.36	iron
36	1,676,643.59	1687876.47	iron
37	1,676,677.00	1687923.88	iron
38	1,676,665.13	1687932.24	iron
39	1,676,631.73	1687864.83	iron
40	1,676,675.15	1687981.07	iron
41	1,676,611.16	1687981.87	iron
42	1,676,542.32	1687914.72	iron
43	1,676,541.52	1687850.72	iron
44	1,676,360.57	1687863.34	iron
45	1,676,361.09	1687733.34	iron
46	1,676,296.58	1687694.18	iron
47	1,676,298.65	1687853.75	iron
48	1,676,293.31	1687917.82	iron
49	1,676,232.97	1687848.96	iron

CONTROL POINTS			
Point	Northing	Easting	Desc
50	1,676,667.34	1688517.38	bm 1 nov88
51	1,676,691.36	1688823.08	bm 2 nov88
52	1,676,621.84	1688909.98	r5
53	1,676,625.44	1688873.84	r5
54	1,676,683.42	1688873.12	crossf
55	1,676,678.05	1688211.11	r5
56	1,676,677.35	1688153.13	r5
57	1,676,613.35	1688154.03	r5
58	1,676,614.11	1688211.90	r5
59	1,676,681.81	1688512.03	r4f
60	1,676,627.36	1689014.01	r5
61	1,676,221.78	1687911.97	iron
62	1,676,152.77	1687834.72	iron
63	1,676,141.58	1687897.74	iron
64	1,676,091.05	1687829.22	iron
65	1,676,082.18	1687893.21	iron
66	1,676,031.22	1687829.84	iron
67	1,676,032.02	1687893.84	iron
68	1,675,937.82	1687856.31	iron
69	1,675,919.66	1687839.19	iron
70	1,675,850.67	1687911.57	iron
71	1,675,868.62	1687928.69	iron
72	1,675,910.56	1688018.36	iron
73	1,675,846.56	1688019.16	iron
74	1,675,912.36	1688162.59	iron
75	1,675,913.08	1688220.59	iron
76	1,675,916.07	1688460.57	iron
77	1,675,916.80	1688518.56	iron
78	1,675,918.24	1688634.06	iron
79	1,675,824.24	1688634.86	iron
80	1,676,044.85	1688757.50	iron
81	1,676,045.68	1688821.49	iron
82	1,676,143.16	1688756.22	iron
83	1,676,143.99	1688820.21	iron
84	1,676,222.81	1688769.22	iron
85	1,676,201.67	1688829.63	iron
86	1,676,320.53	1688803.42	iron
87	1,676,299.39	1688863.83	iron
88	1,676,378.12	1688812.84	iron
89	1,676,378.92	1688876.83	iron
90	1,676,617.02	1688451.83	iron
91	1,676,617.74	1688509.83	iron
92	1,677,328.70	1688376.95	iron
93	1,677,328.02	1687720.86	iron
100	1,675,890.56	1688847.60	cpr
101	1,676,381.51	1688531.97	cpr
102	1,676,621.98	1688628.40	hub
105	1,676,674.28	1689046.74	n

BENCHMARKS:
 Brass benchmark disc in top of curb, east of wheelchair ramp NE cor. of Funston and Lorraine Elev. = 1343.69 NAVD88
 Brass benchmark disc in top of curb, north of wheelchair ramp NW cor. of Funston and Herringston Elev. = 1344.71 NAVD88



SS POINTS			
Point	Northing	Easting	Desc
8001	1,676,619.43	1688656.71	EAMH
8002	1,676,363.91	1688658.00	MH
8003	1,676,145.55	1688630.72	MH
8004	1,675,928.23	1688633.45	MH
8005	1,676,162.64	1689034.54	MH
8006	1,676,162.61	1688935.00	MH
8007	1,675,877.06	1688938.69	MH
8008	1,675,840.22	1688902.28	MH
8009	1,676,541.78	1688904.75	RISER
8010	1,676,450.47	1688899.89	RISER
8011	1,676,379.60	1688896.77	RISER
8012	1,676,277.31	1688898.04	RISER

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WILLOW CREEK EAST BRD
 ADDITION - PHASE III

COORDINATES

SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER:
 468-85403

DESIGN: DMV DRAWN: JAK
 DATE: July 17, 2023

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