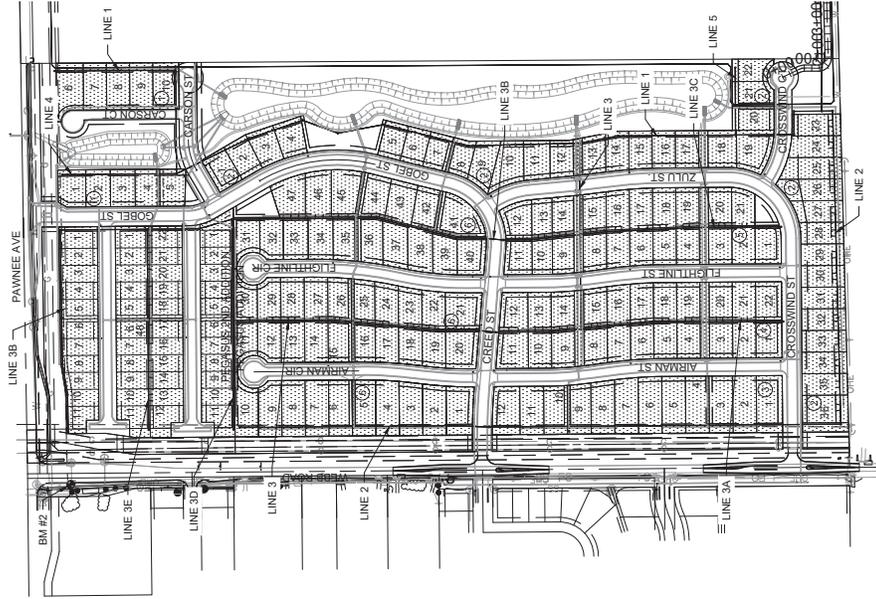


# SANITARY SEWER EXTENSION to serve PEGASUS & PEGASUS 2nd ADDITIONS CITY OF WICHITA, KANSAS

**Basin: SE-02  
6144D**

Paul Gunzelman, P.E. City Engineer  
Project Number: 468-2024-005074  
Org Code number: 47271324  
Munis Number: E4050

Movak Construction - Contractor  
R. Kerns - City of Wichita, Field Project Engineer  
As-Built - Green - Garver, Inspector  
Stubs & Risers  
Release Date: 4/23/2025  
pdf: SDM 10/23/2025



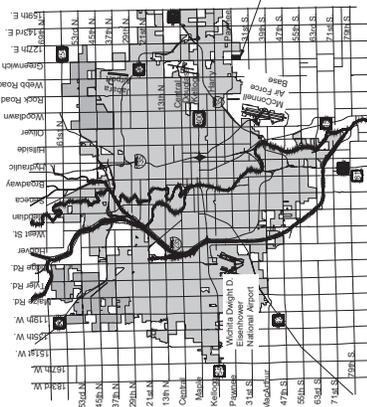
### Benchmarks

BENCHMARK #1:  
CHISELED SQUARE WITH DIVOT ON NW CORNER OF STORM INLET  
ON WEST SIDE OF WEBB ROAD  
ELEVATION = 1391.76 (NAVD88, G18)

BENCHMARK #2:  
CHISELED SQUARE WITH DIVOT ON NORTH CURB OF ENTRANCE  
ISLAND TO BRENTWOOD SOUTH ADDITION  
ELEVATION = 1390.37 (NAVD88, G18)

### IMPROVEMENT DISTRICT

PLAN SET REVIEWED BY GARVER  
*Alvin Bobb*  
SIGNATURE  
06/03/2024  
DATE



Vicinity Map

### Sheet List Table

Sheet Number	Sheet Title
1	SS TitleSheet
2	GENERAL NOTES
3	Pre-Cast SS MH
4	MH Frame & Cover
5	SS LINE 1 (2 of 4)
6	SS LINE 1 (3 of 4)
7	SS LINE 1 (4 of 4)
8	SS LINE 1 (3 of 4)
9	SS LINE 1 (4 of 4)
10	SS LINE 2 (1 of 4)
11	SS LINE 2 (2 of 4)
12	SS LINE 2 (3 of 4)
13	SS LINE 2 (4 of 4)
14	SS LINE 3 (1 of 2)
15	SS LINE 3 (2 of 2)
16	SS LINE 3A
17	SS LINE 3B (1 of 3)
18	SS LINE 3B (2 of 3)
19	SS LINE 3B (3 of 3)
20	SS LINE 3C
21	SS LINE 3E
22	SS LINE 3E
23	SS LINE 4
24	SS LINE 5
25	SS RISER TABLES
26	SS COORDS
27	SS POINT TABLE
28	EROSION CONTROL
29	SEEDING & TESTING NOTES
30	EC-SILT FENCE
31	EC-SILT FENCE
32	EC-CURB INLET & CONST. ENT.
33	EC-STREET IMPROVEMENTS
34	EC-SUBDIVISION DEVELOPMENT
35	PLAT SS
36	PLAT 2 SS

27A Addition Coordinates  
27B Addition Coordinate Tables



RECORD DRAWINGS  
Client: City of Wichita  
Project: Sanitary Sewer  
Construction  
Superintendent: Dave Green  
Checker: Russel Green  
Inspection Firm: Garver  
PDF BY: RDG 04/23/25

AUGUST 2024

PLANS PREPARED BY



Garver  
1995 Midfield Road  
Wichita, KS 67209  
(316) 264-8008  
www.GarverUSA.com  
Project No. 2406261

NOTE: All coordinates listed are modified NAD83 Kansas State Plane Zone South unless otherwise noted. To convert listed coordinates to NAD83 Kansas State Plane Zone South, coordinates to the west of 101°00'00" W. Elevation datum is NAVD88 Geoid 12B unless otherwise noted.



Construction Engineering Division  
 1801 S. McLean Blvd., Suite B  
 Wichita KS, 67213  
 (316) 268-4027

## Sanitary Sewer Riser Table

**Project Name:** SS Improvements to serve Pegasus 1st & 2nd Addition  
**Project Location:** south of Pawnee Rd, east of Webb Rd  
**Project No:** 468-2024-005074  
**MUNIS No:** E4050 / 47271324  
**Contractor:** Nowak Construction Co., Inc.  
**Inspector:** Russel Green

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)		Distance from		Comment
					Upstream MH	Downstream MH	
Riser 1	1	14+25	5.0	Lt.	77.3	111.7	
Riser 2	1	14+50	5.0	Lt.	52.3	136.7	
Riser 3	1	15+35	5.0	Lt.	347.03	32.7	
Riser 4	1	15+55	5.0	Lt.	327.03	52.7	
Riser 5	1	16+45	5.0	Lt.	237.03	142.7	
Riser 6	1	16+65	5.0	Lt.	217.03	162.7	
Riser 7	1	17+25	5.0	Lt.	157.03	222.7	
Riser 8	1	17+45	5.0	Lt.	137.03	242.7	
Riser 9	1	18+00	5.0	Lt.	82.03	297.7	
Riser 10	1	18+20	5.0	Lt.	62.03	317.7	
Riser 11	1	18+75	5.0	Lt.	7.03	372.7	
Riser 12	1	19+00	5.0	Lt.	109.94	17.97	
Riser 13	1	19+50	5.0	Lt.	59.94	67.97	
Riser 14	1	19+70	5.0	Lt.	39.94	87.97	
Riser 15	1	20+60	10.0	Lt.	308.77	50.06	
Riser 16	1	20+80	9.7	Lt.	288.77	70.06	
Riser 17	1	21+40	8.7	Lt.	228.77	130.06	
Riser 18	1	21+60	8.4	Lt.	208.77	150.06	
Riser 19	1	22+15	7.5	Lt.	153.77	205.06	
Riser 20	1	22+35	7.2	Lt.	133.77	225.06	
Riser 21	1	22+90	6.3	Lt.	78.77	280.06	
Riser 22	1	23+10	6.0	Lt.	58.77	300.06	
Riser 23	1	23+75	5.0	Lt.	276.78	6.23	
Riser 24	1	23+95	5.0	Lt.	256.78	26.23	
Riser 25	1	24+50	5.0	Lt.	201.78	81.23	
Riser 26	1	24+70	5.0	Lt.	181.78	101.23	
Riser 27	1	25+25	5.0	Lt.	126.78	156.23	
Riser 28	1	25+45	5.0	Lt.	106.78	176.23	
Riser 29	1	26+00	5.0	Lt.	51.78	231.23	
Riser 30	1	26+20	5.0	Lt.	31.78	251.23	
Riser 31	2	0+65	15.0	Rt.	305.01	29.99	
Riser 32	2	0+85	15.0	Rt.	285.01	49.99	
Riser 33	2	1+35	15.0	Rt.	235.01	99.99	
Riser 34	2	1+55	15.0	Rt.	215.01	119.99	
Riser 35	2	2+10	15.0	Rt.	160.01	174.99	
Riser 36	2	2+30	15.0	Rt.	140.01	194.99	
Riser 37	2	2+80	15.0	Rt.	90.01	244.99	



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					Upstream MH	Downstream MH	
Riser 38	2	3+00	15.0	Rt.	70.01	264.99	
Riser 39	2	3+45	15.0	Rt.	25.01	309.99	
Riser 40	2	3+65	15.0	Rt.	5.01	329.99	
Riser 41	2	4+20	15.0	Rt.	285.01	49.99	
Riser 42	2	4+40	15.0	Rt.	265.01	69.99	
Riser 43	2	4+90	15.0	Rt.	215.01	119.99	
Riser 44	2	5+10	15.0	Rt.	195.01	139.99	
Riser 45	2	5+60	15.0	Rt.	145.01	189.99	
Riser 46	2	5+80	15.0	Rt.	125.01	209.99	
Riser 47	2	6+30	15.0	Rt.	75.01	259.99	
Riser 48	2	6+50	15.0	Rt.	55.01	279.99	
Riser 49	2	6+95	15.0	Rt.	10.01	324.99	
Riser 50	2	7+15	15.0	Rt.	334.3	9.99	
Riser 51	2	7+70	15.0	Rt.	279.3	64.99	
Riser 52	2	7+90	15.0	Rt.	259.3	84.99	
Riser 53	2	8+40	15.0	Rt.	209.3	134.99	
Riser 54	2	8+60	15.0	Rt.	189.3	154.99	
Riser 55	2	9+10	15.0	Rt.	139.3	204.99	
Riser 56	2	9+30	15.0	Rt.	119.3	224.99	
Riser 57	2	9+85	15.0	Rt.	64.3	279.99	
Riser 58	2	10+05	15.0	Rt.	44.3	299.99	
Riser 59	2	12+75	5.0	Rt.	110.01	225.7	
Riser 60	2	12+95	5.0	Rt.	90.01	245.7	
Riser 61	2	13+50	5.0	Rt.	35.01	300.7	
Riser 62	2	13+70	5.0	Rt.	15.01	320.7	
Riser 63	2	14+25	5.0	Rt.	283.93	39.99	
Riser 64	2	14+45	5.0	Rt.	263.93	59.99	
Riser 65	2	15+05	5.0	Rt.	203.93	119.99	
Riser 66	2	15+25	5.0	Rt.	183.93	139.99	
Riser 67	2	15+75	5.0	Rt.	133.93	189.99	
Riser 68	2	15+95	5.0	Rt.	113.93	209.99	
Riser 69	2	16+55	5.0	Rt.	53.93	269.99	
Riser 70	2	16+75	5.0	Rt.	33.93	289.99	
Riser 71	2	17+29	5.0	Rt.	285.93	20.07	Station Change
Riser 72	2	17+49	5.0	Rt.	265.93	40.07	Station Change
Riser 73	3	6+45	15.0	Rt.	57.46	43.05	
Riser 74	3	6+50	5.0	Lt.	52.46	48.05	



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**Contractor:** Nowak Construction Co., Inc.  
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Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)		Distance from		Comment
					Upstream MH	Downstream MH	
Riser 75	3	6+70	15.0	Rt.	32.46	68.05	
Riser 76	3	6+75	5.0	Lt.	27.46	73.05	
Riser 77	3	7+20	5.0	Lt.	157.52	17.54	
Riser 78	3	7+25	15.0	Rt.	152.52	22.54	
Riser 79	3	7+45	5.0	Lt.	132.52	42.54	
Riser 80	3	7+50	15.0	Rt.	127.52	47.54	
Riser 81	3	8+00	5.0	Lt.	77.52	97.54	
Riser 82	3	8+05	15.0	Rt.	72.52	102.54	
Riser 83	3	8+25	5.0	Lt.	52.52	122.54	
Riser 84	3	8+35	15.0	Rt.	42.52	132.54	
Riser 85	3	9+75	5.0	Lt.	88.52	34.47	
Riser 86	3	9+80	15.0	Rt.	83.52	39.47	
Riser 87	3	10+05	15.0	Rt.	58.52	64.47	
Riser 88	3	10+10	5.0	Lt.	53.52	69.47	
Riser 89	3	10+70	5.0	Lt.	340.14	6.48	
Riser 90	3	10+75	15.0	Rt.	335.14	11.48	
Riser 91	3	10+90	5.0	Lt.	320.14	26.48	
Riser 92	3	10+95	15.0	Rt.	315.14	31.48	
Riser 93	3	11+45	15.0	Rt.	265.14	81.48	
Riser 94	3	11+65	15.0	Rt.	245.14	101.48	
Riser 95	3	12+25	15.0	Rt.	185.14	161.48	
Riser 96	3	12+45	15.0	Rt.	165.14	181.48	
Riser 97	3	12+95	15.0	Rt.	115.14	231.48	
Riser 98	3	13+15	15.0	Rt.	95.14	251.48	
Riser 99	3	13+85	15.0	Rt.	25.14	321.48	
Riser 100	3	14+00	15.0	Rt.	10.14	336.48	
Riser 101	3	14+50	15.0	Rt.	265.63	39.86	
Riser 102	3	14+70	15.0	Rt.	245.63	59.86	
Riser 103	3	15+30	15.0	Rt.	185.63	119.86	
Riser 104	3	15+50	15.0	Rt.	165.63	139.86	
Riser 105	3	16+00	15.0	Rt.	115.63	189.86	
Riser 106	3	16+20	15.0	Rt.	95.63	209.86	
Riser 107	3	16+75	15.0	Rt.	40.63	264.86	
Riser 108	3A	0+30	5.0	Rt.	201.44	30	
Riser 109	3A	0+35	15.0	Lt.	196.44	35	
Riser 110	3A	0+55	15.0	Lt.	176.44	55	
Riser 111	3A	0+60	5.0	Rt.	171.44	60	



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Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)		Distance from		Comment
					Upstream MH	Downstream MH	
Riser 112	3A	1+05	5.0	Rt.	126.44	105	
Riser 113	3A	1+10	15.0	Lt.	121.44	110	
Riser 114	3A	1+30	15.0	Lt.	101.44	130	
Riser 115	3A	1+35	5.0	Rt.	96.44	135	
Riser 116	3A	1+90	5.0	Rt.	41.44	190	
Riser 117	3A	1+95	15.0	Lt.	36.44	195	
Riser 118	3A	2+10	15.0	Lt.	21.44	210	
Riser 119	3A	2+15	5.0	Rt.	16.44	215	
Riser 120	3A	2+60	5.0	Rt.	136.86	28.56	
Riser 121	3A	2+65	15.0	Lt.	131.86	33.56	
Riser 122	3A	2+80	5.0	Rt.	116.86	48.56	
Riser 123	3A	2+85	15.0	Lt.	111.86	53.56	
Riser 124	3A	3+35	5.0	Rt.	61.86	103.56	
Riser 125	3A	3+40	15.0	Lt.	56.86	108.56	
Riser 126	3A	3+60	15.0	Lt.	36.86	128.56	
Riser 127	3A	3+65	5.0	Rt.	31.86	133.56	
Riser 128	3A	4+40	15.0	Lt.	216.28	43.14	
Riser 129	3A	4+60	15.0	Lt.	196.28	63.14	
Riser 130	3A	5+20	15.0	Lt.	136.28	123.14	
Riser 131	3A	5+40	15.0	Lt.	116.28	143.14	
Riser 132	3A	5+95	15.0	Lt.	61.28	198.14	
Riser 133	3B	0+45	15.0	Rt.	116.21	45	
Riser 134	3B	0+50	5.0	Lt.	111.21	50	
Riser 135	3B	0+65	15.0	Rt.	96.21	65	
Riser 136	3B	0+70	5.0	Lt.	91.21	70	
Riser 137	3B	1+10	5.0	Lt.	51.21	110	
Riser 138	3B	1+15	15.0	Rt.	46.21	115	
Riser 139	3B	1+35	15.0	Rt.	26.21	135	
Riser 140	3B	1+40	5.0	Lt.	21.21	140	
Riser 141	3B	1+80	5.0	Lt.	70.1	18.79	
Riser 142	3B	1+85	15.0	Rt.	65.1	23.79	
Riser 143	3B	2+05	5.0	Lt.	45.1	43.79	
Riser 144	3B	2+10	15.0	Rt.	40.1	48.79	
Riser 145	3B	3+45	5.0	Lt.	59.19	31.09	
Riser 146	3B	3+75	5.0	Lt.	29.19	61.09	
Riser 147	3B	4+20	5.0	Lt.	246.75	15.81	
Riser 148	3B	4+25	15.0	Rt.	241.75	20.81	



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					Upstream MH	Downstream MH	
Riser 149	3B	4+45	5.0	Lt.	221.75	40.81	
Riser 150	3B	4+50	15.0	Rt.	216.75	45.81	
Riser 151	3B	5+00	15.0	Rt.	166.75	95.81	
Riser 152	3B	5+05	5.0	Lt.	161.75	100.81	
Riser 153	3B	5+20	15.0	Rt.	146.75	115.81	
Riser 154	3B	5+30	5.0	Lt.	136.75	125.81	
Riser 155	3B	5+85	15.0	Rt.	81.75	180.81	
Riser 156	3B	5+90	5.0	Lt.	76.75	185.81	
Riser 157	3B	6+15	5.0	Lt.	51.75	210.81	
Riser 158	3B	6+20	15.0	Rt.	46.75	215.81	
Riser 159	3B	6+60	15.0	Rt.	6.75	255.81	
Riser 160	3B	6+75	5.0	Lt.	224.32	8.25	
Riser 161	3B	6+85	15.0	Rt.	214.32	18.25	
Riser 162	3B	6+95	5.0	Lt.	204.32	28.25	
Riser 163	3B	7+60	15.0	Rt.	139.32	93.25	
Riser 164	3B	7+90	15.0	Rt.	109.32	123.25	
Riser 165	3B	8+40	15.0	Rt.	59.32	173.25	
Riser 166	3B	8+65	15.0	Rt.	34.32	198.25	
Riser 167	3B	9+20	15.0	Rt.	215.96	20.68	
Riser 168	3B	9+45	15.0	Rt.	190.96	45.68	
Riser 169	3C	0+30	5.0	Rt.	56.02	30	
Riser 170	3C	0+35	15.0	Lt.	51.02	35	
Riser 171	3C	0+55	15.0	Lt.	31.02	55	
Riser 172	3C	0+60	5.0	Rt.	26.02	60	
Riser 173	3C	1+10	5.0	Rt.	284.98	23.98	
Riser 174	3C	1+15	15.0	Lt.	279.98	28.98	
Riser 175	3C	1+35	15.0	Lt.	259.98	48.98	
Riser 176	3C	1+40	5.0	Rt.	254.98	53.98	
Riser 177	3C	1+85	5.0	Rt.	209.98	98.98	
Riser 178	3C	1+90	15.0	Lt.	204.98	103.98	
Riser 179	3C	2+15	5.0	Rt.	179.98	128.98	
Riser 180	3C	2+20	15.0	Lt.	174.98	133.98	
Riser 181	3C	2+55	5.0	Rt.	139.98	168.98	
Riser 182	3C	2+60	15.0	Lt.	134.98	173.98	
Riser 183	3C	2+80	15.0	Lt.	114.98	193.98	
Riser 184	3C	2+85	5.0	Rt.	109.98	198.98	
Riser 185	3C	3+30	5.0	Rt.	64.98	243.98	



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					Upstream MH	Downstream MH	
Riser 186	3C	3+35	15.0	Lt.	59.98	248.98	
Riser 187	3C	3+50	5.0	Rt.	44.98	263.98	
Riser 188	3C	3+55	15.0	Lt.	39.98	268.98	
Riser 189	3C	4+45	5.0	Rt.	206.63	50.02	
Riser 190	3C	4+50	15.0	Lt.	201.63	55.02	
Riser 191	3C	4+65	5.0	Rt.	186.63	70.02	
Riser 192	3C	4+70	15.0	Lt.	181.63	75.02	
Riser 193	3C	5+20	5.0	Rt.	131.63	125.02	
Riser 194	3C	5+25	15.0	Lt.	126.63	130.02	
Riser 195	3C	5+35	5.0	Rt.	116.63	140.02	
Riser 196	3C	5+40	15.0	Lt.	111.63	145.02	
Riser 197	3C	5+90	5.0	Rt.	61.63	195.02	
Riser 198	3C	6+10	5.0	Rt.	41.63	215.02	
Riser 199	3E	0+20	15.0	Lt.	263	20	
Riser 200	3E	0+75	15.0	Lt.	208	75	
Riser 201	3E	1+30	15.0	Lt.	153	130	
Riser 202	3E	1+85	15.0	Lt.	98	185	
Riser 203	3E	2+45	15.0	Lt.	38	245	
Riser 204	3E	3+10	15.0	Lt.	339.58	27	
Riser 205	3E	3+70	15.0	Lt.	279.58	87	
Riser 206	3E	4+25	15.0	Lt.	224.58	142	
Riser 207	3E	4+80	15.0	Lt.	169.58	197	
Riser 208	3E	5+35	15.0	Lt.	114.58	252	
Riser 209	3E	5+55	15.0	Lt.	94.58	272	

**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 & Sewer Dept. 1-316-218-9821  
City of Wichita Stormwater 1-316-268-4090  
City of Wichita Traffic 1-316-268-4034  
Conoco Pipe Line Co. 1-877-267-2290  
Cox Communications 1-888-246-3530  
Energy 1-800-544-4857  
Kansas Gas Service (ONEOK) 1-888-482-4950  
Seawick County Electric Cooperative 1-866-562-4732  
Southern Star Central Gas 1-800-324-9696

- 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. 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 stability, depth, location and site conditions. The appearance of the sites shall be as close to the original appearance as possible. The Engineer will be notified if the sites are not 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 Environmental Protection permit. The Contractor shall be 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 Engineer's approval. The Contractor shall be responsible for the removal of proposed new construction shall be saved and protected from damage.
- The Contractor shall give all property owners and/or adjacent property owners written notice of the start of this project a minimum of ten (10) days notice prior to start of construction.
- The Contractor shall be responsible for preserving and re-establish any property lines which are damaged or destroyed by his construction operations. Such lines shall be re-established by a licensed land and surveyor in accordance with state laws.
- If traffic will be impeded by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer at traffic@wichita.gov before construction can begin. The Contractor shall be responsible for all traffic control operations. The Contractor shall be responsible for construction zone markings and signage that 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.

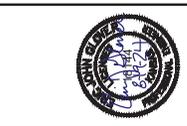
- All elevations shown are NAVD 88, G12A.
- All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.
- The Contractor shall protect from damage and support all existing utilities and structures. The Contractor shall be responsible for 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.
- 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 stubs and plugged pipes shall be located with green plastic tape in the same manner as risers.
- Connecting to Existing Manholes:  
Prior to laying sewer lines using existing stubs in existing manholes, the Contractor shall expose and verify the elevation, grade and alignment of existing stubs and notify the Engineer of any deviation from the design. If the stubs do not have an existing stub or the stub is unusable due to elevation grade or alignment, the Contractor shall bore cut into existing manhole wall to make connection using approved water stop gasket, and reshape the manhole to meet design. The cost of the bore cut and cost to connecting to existing manholes is incidental to the project.
- Contractor shall provide positive drainage away from all manhole covers when adjacent grade allows.
- The Contractor shall prevent any construction debris from entering the existing sanitary sewer during construction.
- The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be submitted and approved by the Sewer Maintenance Division (316-268-4073) prior to starting and by-passing of sewerage flows.
- No shrink or swell factors have been applied to the earthwork quantities shown on this project. All earthwork quantities are based on raw surface volume comparisons.
- Excess dirt generated from installation of underground sanitary sewer due to flowable fill and sand backfill is to remain on site and coordinated with companion SVD Project.
- All disturbed areas on this project shall be seeded with temporary seeding per City of Wichita Specifications.
- Due to the depths of some of the SS lines on this project, areas that require flowable fill at depths greater than 15' shall be placed in two separate lifts and allowed to cure overnight between lifts.
- Tree Trimming shall be done using equipment specifically designed for the task. Equipment Buckets and other devices shall not be used to trim trees. Cost of tree trimming and removal shall be subsidiary to the bid item "Site Clearing". Brush, limbs, and other debris generated by the trimming shall be disposed of at an off-site location selected by the Contractor.

25. Developer:  
Byron Lugaly (316) 265-7782. byrnlugaly@gmail.com



**GARVER**  
INCORPORATED  
1905 Meridian Road  
Wichita, KS 67209  
(316) 264-8008



REV.	DATE	DESCRIPTION



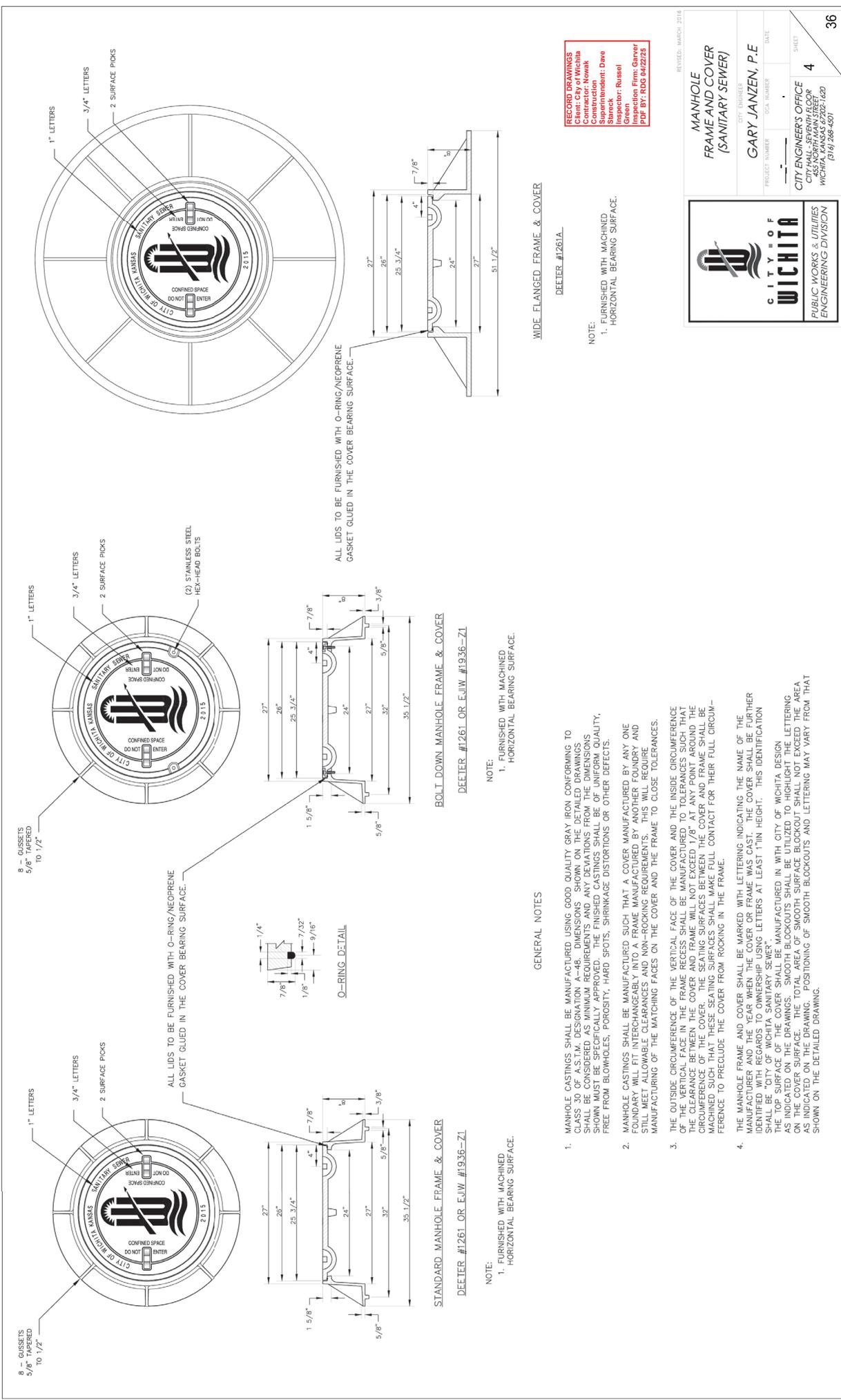
CITY OF WICHITA  
WICHITA, KANSAS  
PELGASUS ADDITION  
SANITARY SEWER

GENERAL NOTES

JOB NO.: 2400521  
DATE: AUGUST 2024  
DESIGNED BY: E/JG  
DRAWN BY: DRS  
DATE PLOTTED: 08/20/2024 10:00 AM  
DRAWING NUMBER: 042225

RECORD DRAWINGS  
Client: City of Wichita  
Contractor: Nowak  
Superintendent: Dave Strecek  
Inspector: Russel  
Inspection Firm: Garver  
PDF BY: RDG 042225





8 - GUSSETS  
5/8" TAPERED  
TO 1/2"

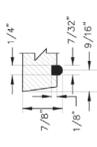
1" LETTERS

3/4" LETTERS

2 SURFACE PICKS

ALL LIDS TO BE FURNISHED WITH O-RING/NEOPRENE  
GASKET GLUED IN THE COVER BEARING SURFACE.

(2) STAINLESS STEEL  
HEX-HEAD BOLTS



ALL LIDS TO BE FURNISHED WITH O-RING/NEOPRENE  
GASKET GLUED IN THE COVER BEARING SURFACE.

ALL LIDS TO BE FURNISHED WITH O-RING/NEOPRENE  
GASKET GLUED IN THE COVER BEARING SURFACE.

STANDARD MANHOLE FRAME & COVER  
DEETER #1261 OR E.U.W. #1936-Z1

BOLT DOWN MANHOLE FRAME & COVER  
DEETER #1261 OR E.U.W. #1936-Z1

GENERAL NOTES

NOTE:  
1. FURNISHED WITH MACHINED  
HORIZONTAL BEARING SURFACE.

NOTE:  
1. FURNISHED WITH MACHINED  
HORIZONTAL BEARING SURFACE.

WIDE FLANGED FRAME & COVER  
DEETER #1261A

- MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS, AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE APPROVED BY THE PROJECT ENGINEER. SURFACES SHALL BE FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
- MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
- THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SEATING SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUM-FERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
- THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERINGS INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE EITHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SANITARY SEWER". THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN WITH CITY OF WICHITA DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

NOTE:  
1. FURNISHED WITH MACHINED  
HORIZONTAL BEARING SURFACE.

RECORD DRAWINGS  
Client: City of Wichita  
Contract: Sewer  
Construction  
Superintendent: Dave  
Starneck  
Green  
Inspector: Russel  
Green  
Inspection Firm: Garver  
PDF BY: RDO 04/22/23

**CITY OF WICHITA**  
PUBLIC WORKS & UTILITIES  
ENGINEERING DIVISION

**MANHOLE  
FRAME AND COVER  
(SANITARY SEWER)**

PROJECT ENGINEER:  
**GARY JANZEN, P.E.**

PROJECT NUMBER: \_\_\_\_\_ DATE: \_\_\_\_\_  
DCA NUMBER: \_\_\_\_\_

CITY ENGINEER'S OFFICE  
CITY HALL SEVENTH FLOOR  
WICHITA, KANSAS 67202-1420  
(316) 266-4601

SHEET: **4** OF 4  
36







SS MH 1-12  
 N 1672607.30 E 1682243.30  
 STA 31+46.03, SS LINE 1  
 CONSTRUCT STD. MANHOLE  
 D=4.0'

SS MH 1-11  
 N 1672198.46 E 1682415.99  
 STA 29+227.3, SS LINE 1  
 SEE PREVIOUS SHEET

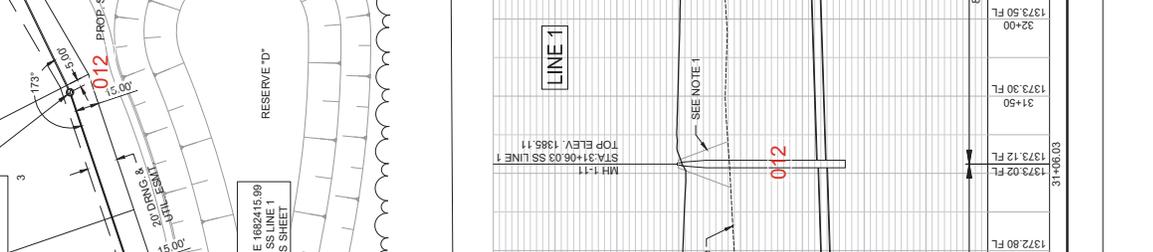
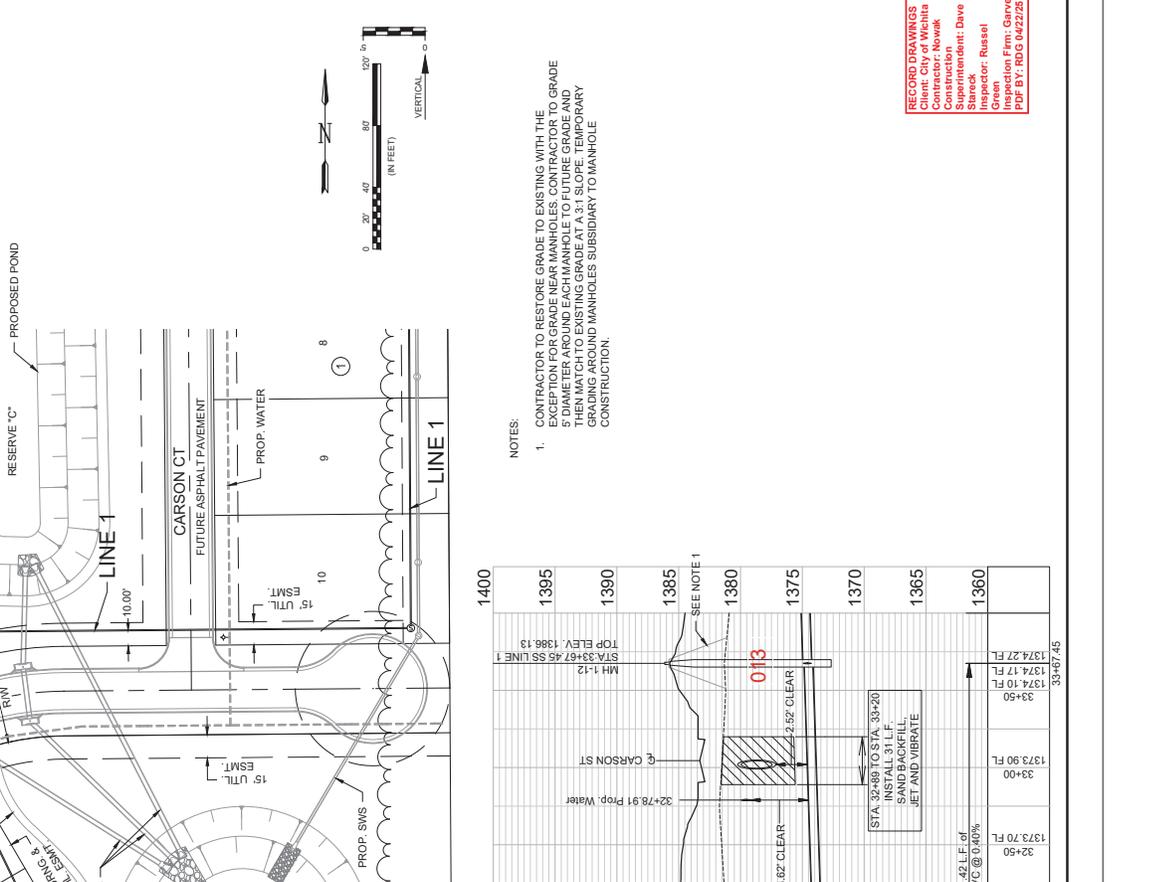
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 SEE PREVIOUS SHEET

SS MH 1-11  
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 STA 29+227.3, SS LINE 1  
 SEE PREVIOUS SHEET

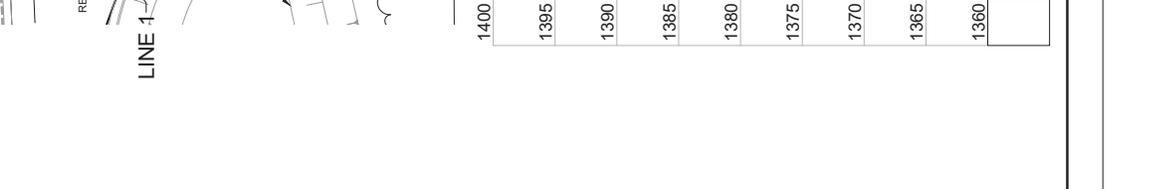
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 SEE PREVIOUS SHEET

SS MH 1-11  
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 STA 29+227.3, SS LINE 1  
 SEE PREVIOUS SHEET

SS MH 1-11  
 N 1672198.46 E 1682415.99  
 STA 29+227.3, SS LINE 1  
 SEE PREVIOUS SHEET



NOTES:  
 1. CONTRACTOR TO RESTORE GRADE TO EXISTING WITH THE EXCEPTION FOR GRADE NEAR MANHOLES. CONTRACTOR TO GRADE NEAR MANHOLES TO MATCH TO EXISTING GRADE AT A 3:1 SLOPE. TEMPORARY GRADING AROUND MANHOLES SUBSIDIARY TO MANHOLE CONSTRUCTION.



**GARVER**  
 ENGINEERS ARCHITECTS  
 1905 Merriwell Road  
 Wichita, KS 67209  
 (316) 264-8008



CITY OF WICHITA  
 WICHITA, KANSAS

SS LINE 1  
 (3 of 4)

JOB NO.: 2400521  
 DATE: AUGUST 2024  
 DESIGNED BY: E/JG  
 DRAWN BY: DRS

SALES ENGINEER:  
 PROJECT MANAGER:  
 SUPERVISOR:  
 DRAFTER:

RECORD DRAWINGS  
 Client: City of Wichita  
 Contractor: Nowak  
 Superintendent: Dave  
 Stakeout:  
 Inspector: Russel  
 Inspection Firm: Garver  
 PDF BY: PDG 042225

SHEET NUMBER 8 OF 36

FILE: L:\2024\171-240521 - Pegasus Addition Design\Drawings\SS INTERNAL SHEETS\SS LINE 1-3.dwg  
 LAST PLOTTED BY: Shanahan, Danyl R. PLOT SCALE: 1"=80'  
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 PLOTTED USING: None





1995 Marfield Road  
Wichita, KS 67209  
(316) 264-8008



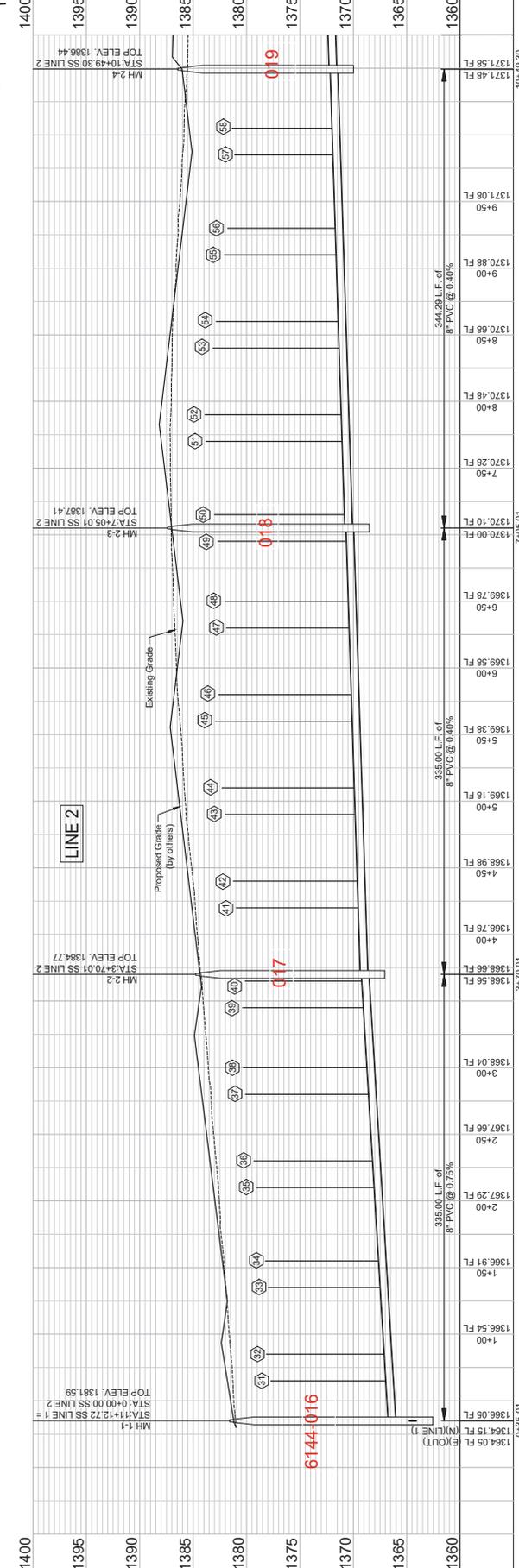
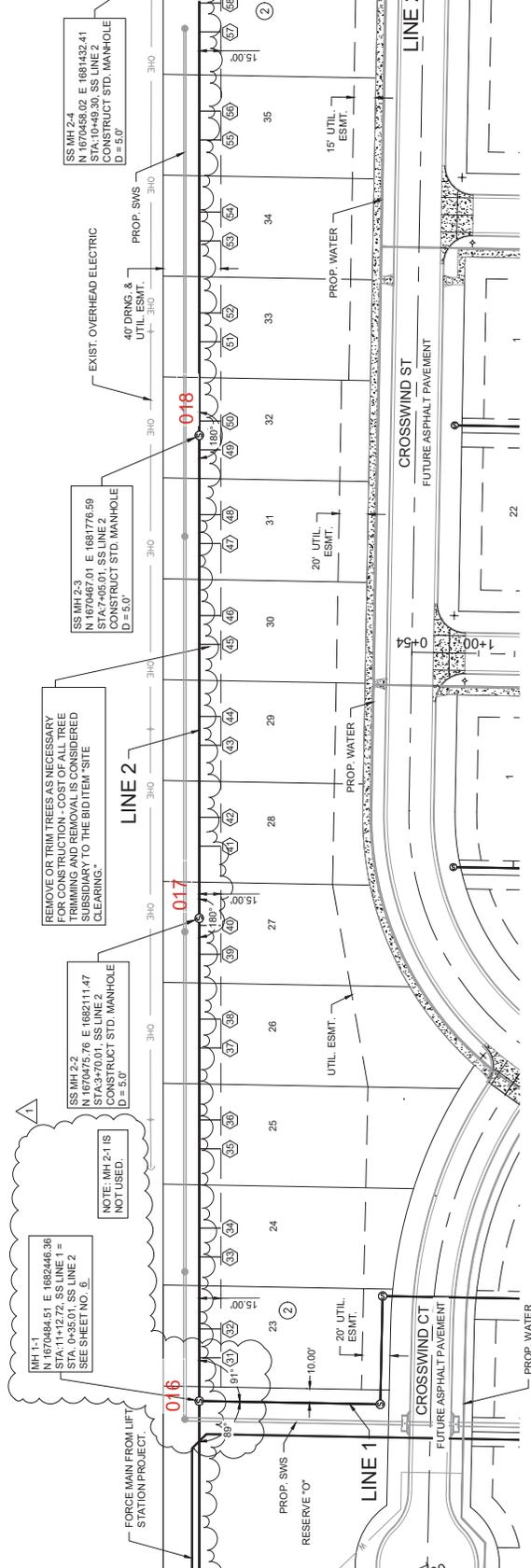
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102/124		DATE
		DESCRIPTION



CITY OF WICHITA  
SANITARY SEWER  
SS LINE 2  
(1 of 4)

JOB NO. 2400321  
DATE: AUGUST 2024  
DESIGNED BY: E/JG  
DRAWN BY: DRS  
DRAWING NUMBER  
SHEET NUMBER 10 of 36

**RECORD DRAWINGS**  
sent to City of Wichita  
Construction  
Supervisor: Dave Green  
Inspector: Russel  
Inspection Firm: Garver  
PDF: 617-RDS-042225





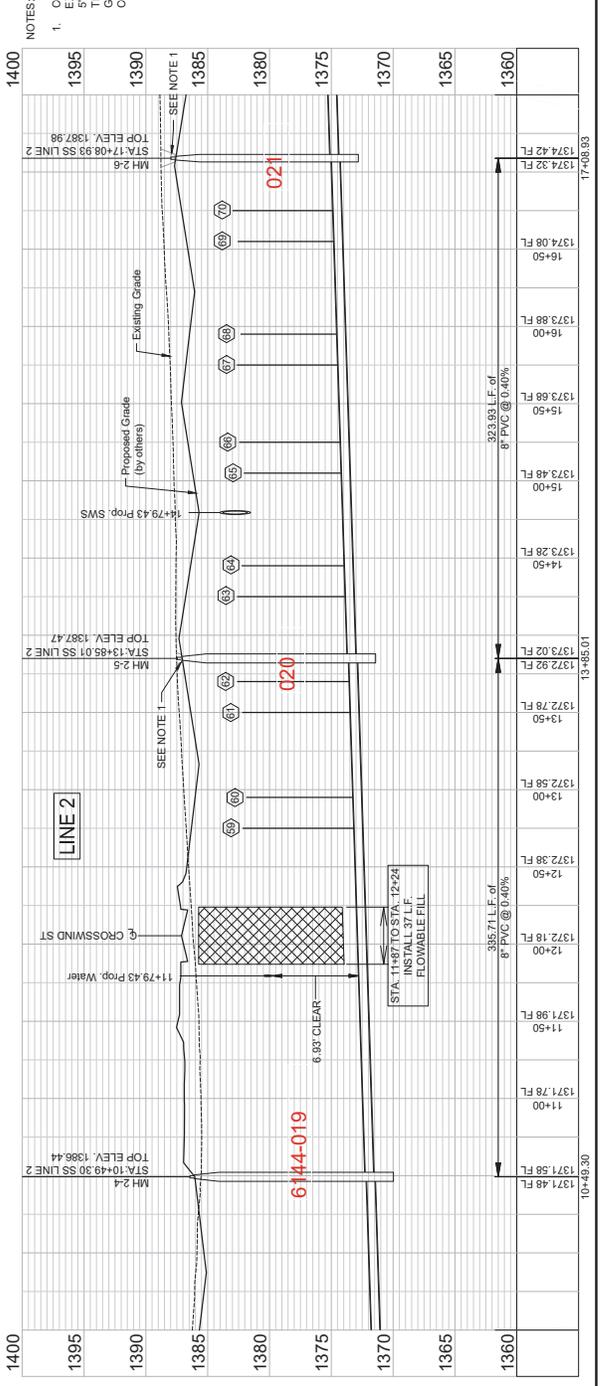
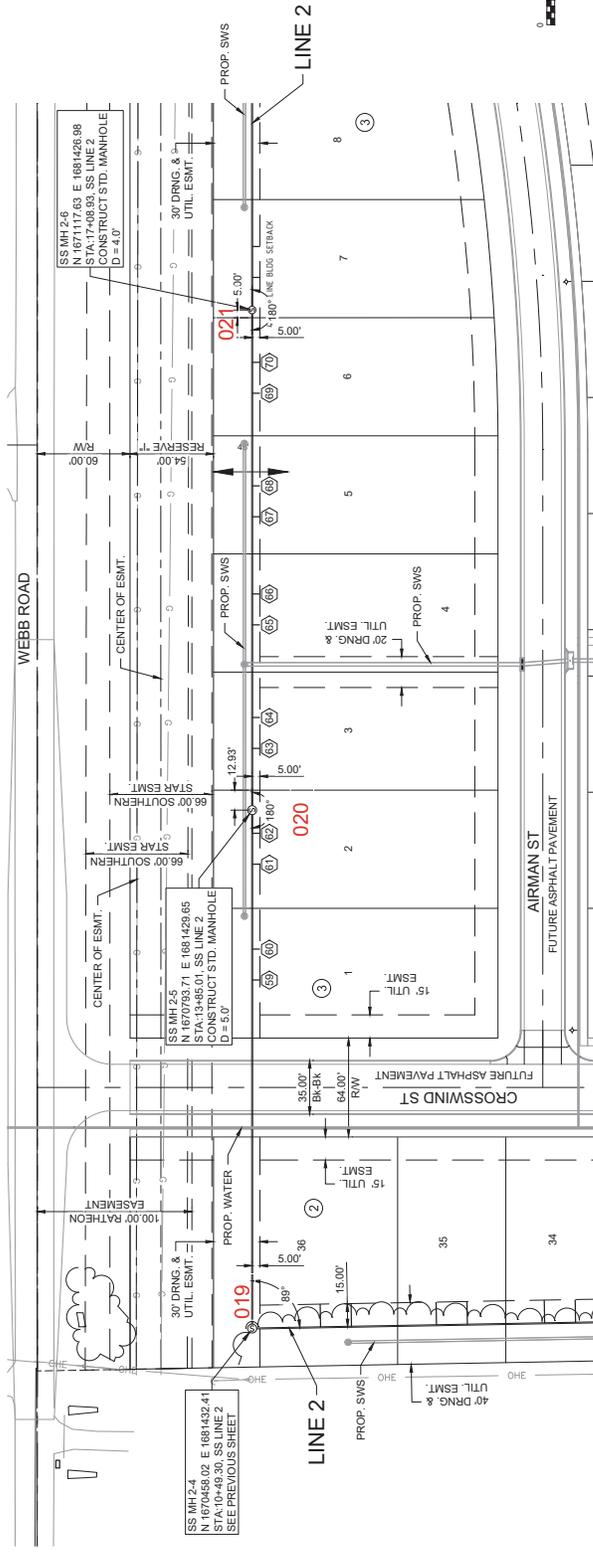
REV.	DATE	DESCRIPTION



CITY OF WICHITA  
 WICHITA, KANSAS  
 SS LINE 2  
 (2 of 4)  
 PEGASUS ADDITION  
 SANITARY SEWER

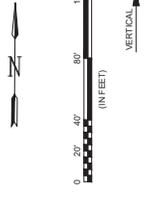
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 DATE: AUGUST 2024  
 DESIGNED BY: E/JG  
 DRAWN BY: DJS  
 SUPERVISOR: DAVE GREEN  
 INSPECTOR: RUSSELL  
 DRAWING NUMBER  
 SHEET NUMBER **11** OF **36**

**RECORD DRAWINGS**  
 Made by: Wichita  
 Construction  
 Superintendent: Dave  
 Green  
 Inspector: Russel  
 Inspection Firm: Garver  
 PDF B.T. 805 06/22/25



NOTES:

- CONTRACTOR TO RESTORE GRADE TO EXISTING WITH THE EXCEPTION FOR GRADE NEAR MANHOLES. CONTRACTOR TO GRADE 5' DIAMETER AROUND EACH MANHOLE TO FUTURE GRADE AND TO PROVIDE CURBS AND GRADING AROUND MANHOLES SUBSIDIARY TO MANHOLE CONSTRUCTION.





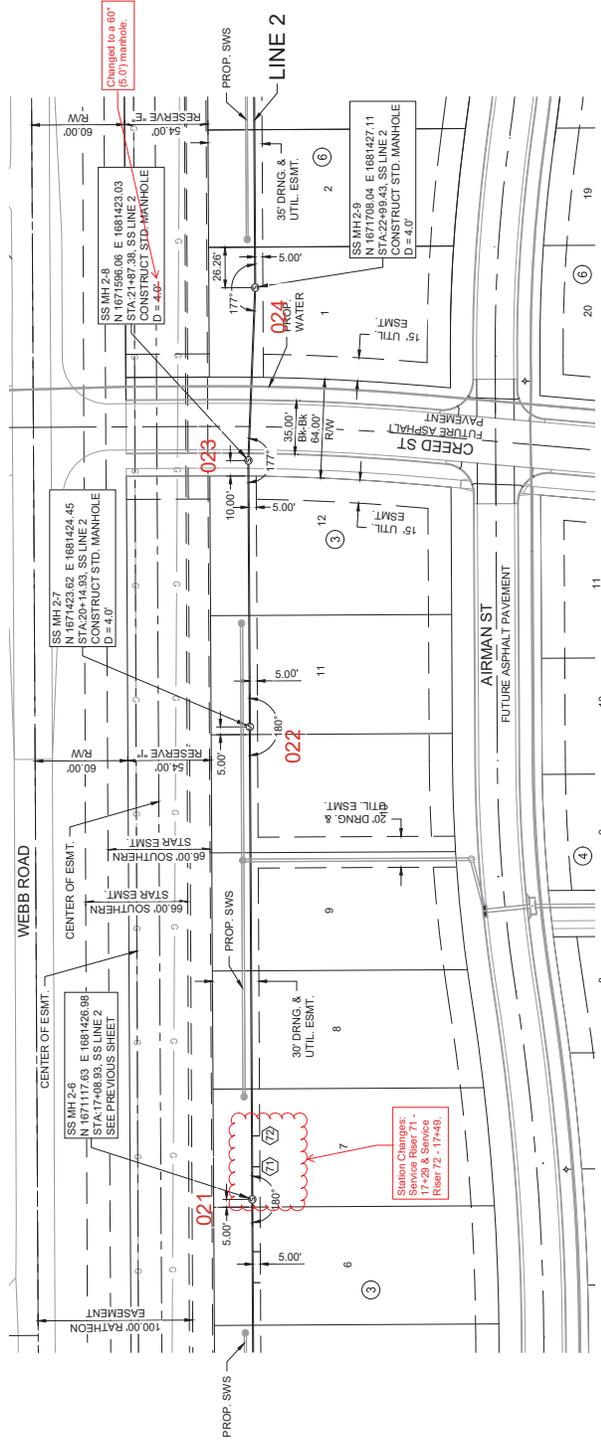
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CITY OF WICHITA  
 WICHITA, KANSAS  
 SS LINE 2  
 (3 of 4)  
 FEGASUS ADDITION  
 SANITARY SEWER

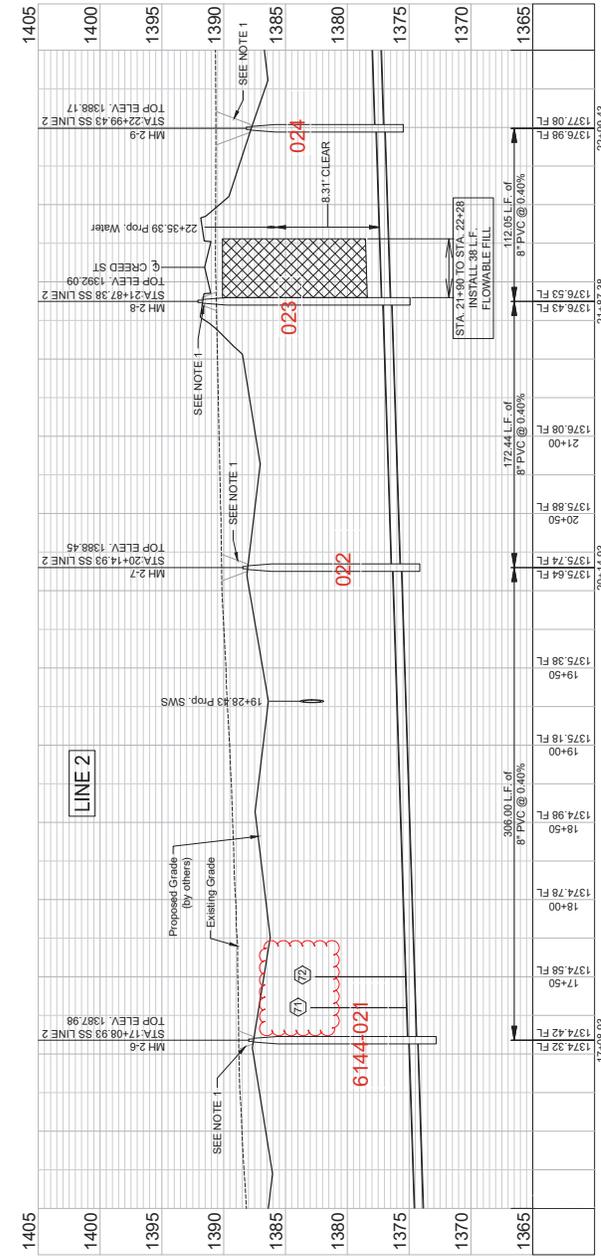
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 DRAWN BY: DRS  
 DATE PLOTTED: 8/22/2024 10:58 AM  
 PLOT SCALE: 1/8" = 1'-0"

SHEET NUMBER **12 of 36**



**NOTES:**

- CONTRACTOR TO RESTORE GRADE TO EXISTING WITH THE EXCEPTION FOR GRADE NEAR MANHOLES. CONTRACTOR TO GRADE 5' DIAMETER AROUND EACH MANHOLE TO FUTURE GRADE AND THEN MATCH TO EXISTING GRADE AT A 3:1 SLOPE. TEMPORARY GRADING AROUND MANHOLES SUBSIDIARY TO MANHOLE CONSTRUCTION.



**RECORD DRAWINGS**  
 Client: City of Wichita  
 Contractor: Nowak  
 Construction: Stantec  
 Inspector: Russel  
 Green: Kansas Fire Center  
 PDF BY: RGS 04/22/25



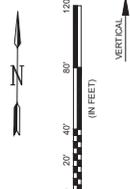
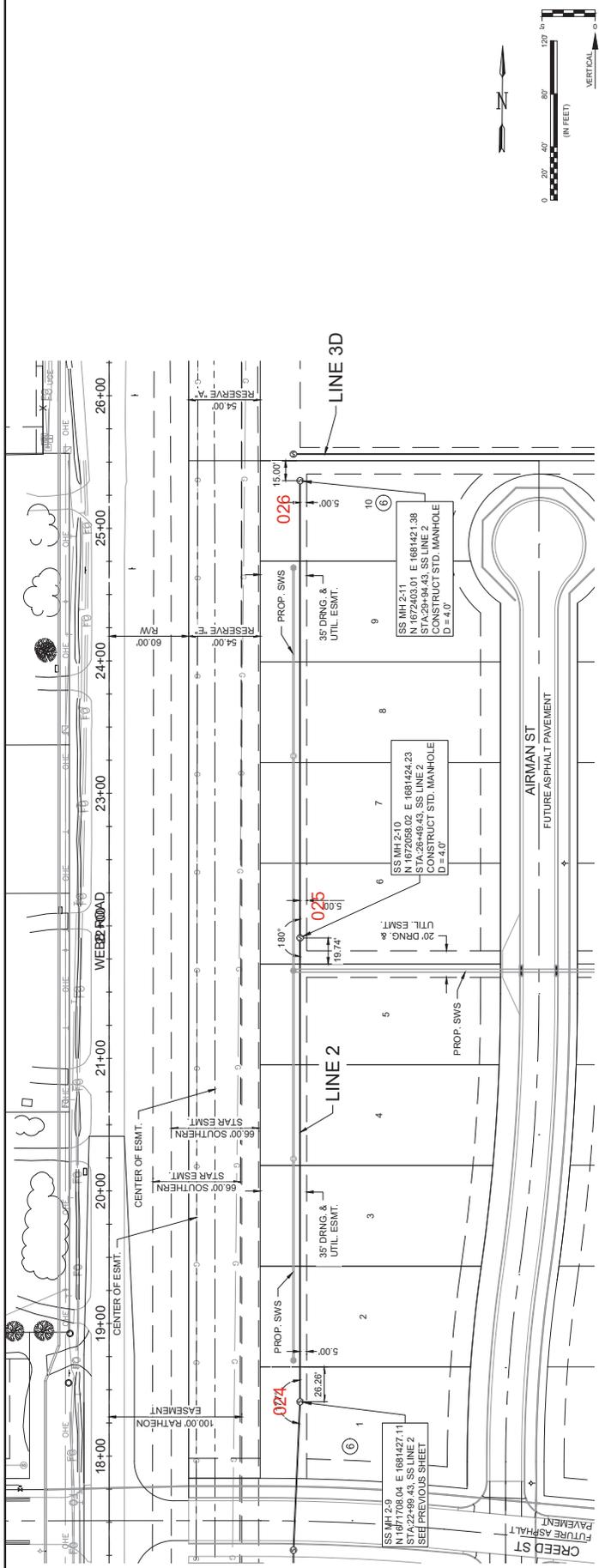
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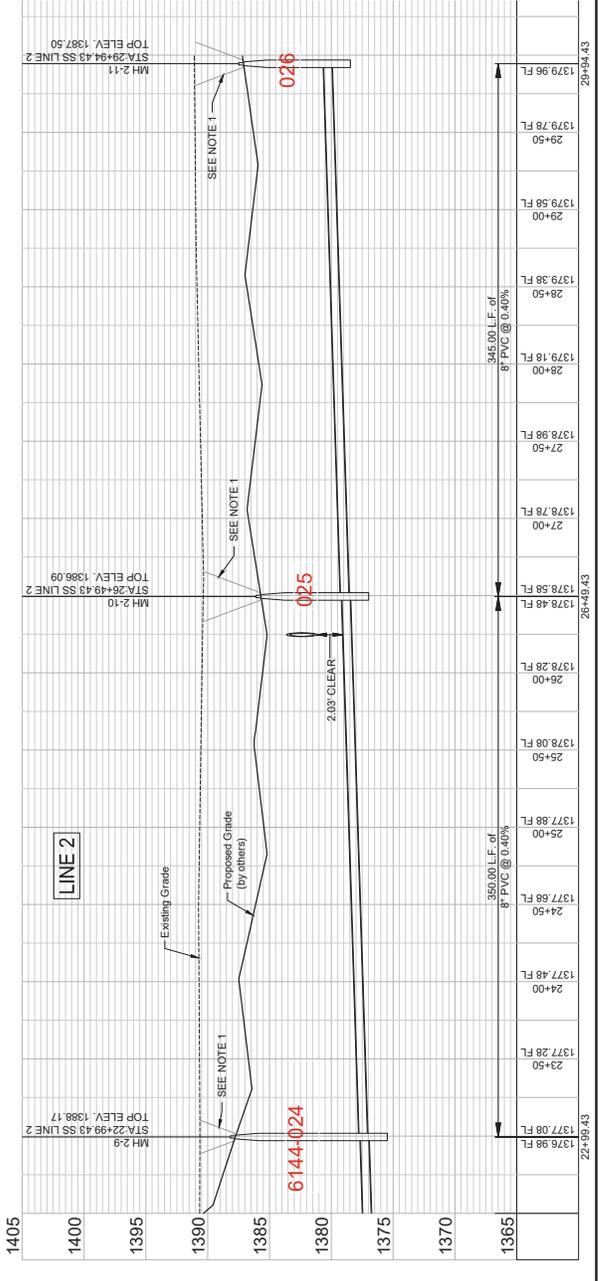
CITY OF WICHITA  
 WICHITA, KANSAS  
 PEGASUS ADDITION  
 SANITARY SEWER  
 SS LINE 2  
 (4 of 4)

JOB NO.: 2400321  
 DATE: AUGUST 2024  
 DESIGNED BY: E/JG  
 DRAWN BY: DRS  
 DATE PLOTTED: 08/23/2024  
 PLOT SCALE: 1" = 40.00'  
 DRAWING NUMBER: 22-189.43  
 SHEET NUMBER: 13 OF 36

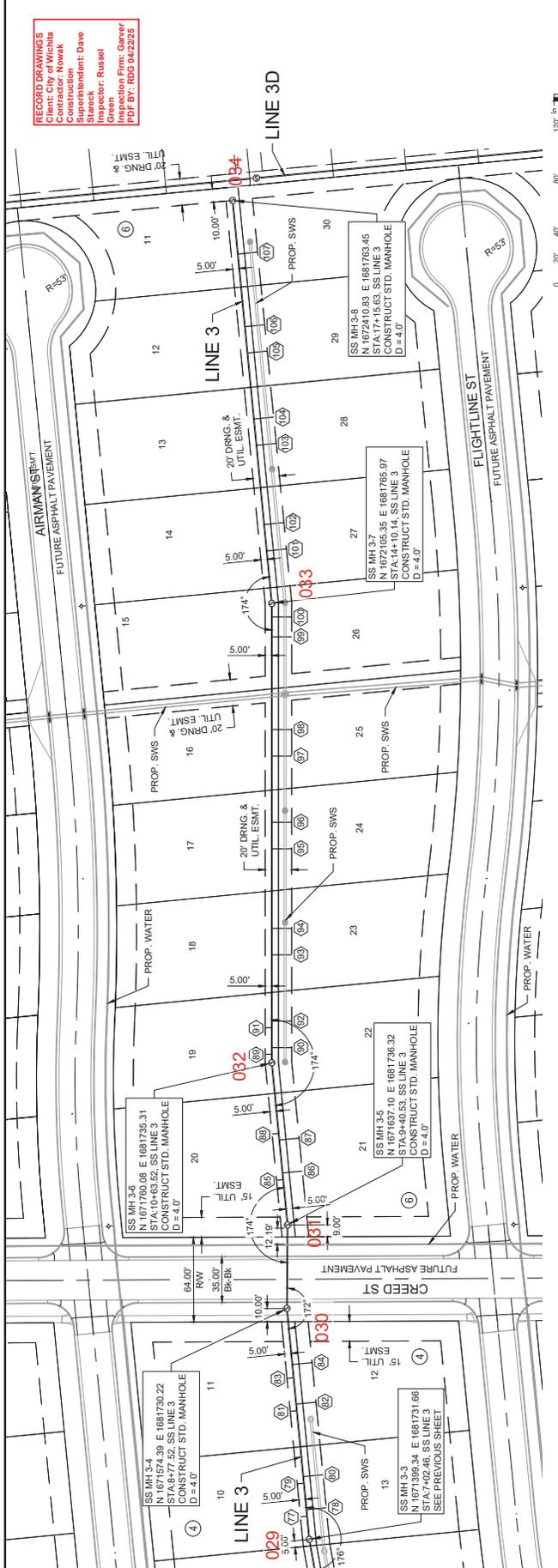
**RECORD DRAWINGS**  
 Client: City of Wichita  
 Designer: E/JG  
 Construction: DRS  
 Superintendent: Dave Stanek  
 Inspector: Russel Green  
 Inspection Firm: Garver  
 PLOT BY: ROJ 08/22/24



**NOTES:**  
 1. CONTRACTOR TO RESTORE GRADE TO EXISTING WITH THE EXCEPTION FOR GRADE NEAR MANHOLES. CONTRACTOR TO GRADE 5' DIAMETER AROUND EACH MANHOLE TO FUTURE GRADE AND THEN MATCH TO EXISTING GRADE AT A 3:1 SLOPE. TEMPORARY GRADING AROUND MANHOLES SUBSIDIARY TO MANHOLE CONSTRUCTION.

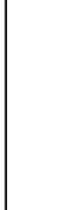






Station	Vertical Elevation	Notes
1400	1373.55 FL	7+02.46
1395	1373.55 FL	7+02.46
1390	1373.55 FL	7+02.46
1385	1373.55 FL	7+02.46
1380	1373.55 FL	7+02.46
1375	1373.55 FL	7+02.46
1370	1373.55 FL	7+02.46
1365	1373.55 FL	7+02.46
1360	1373.55 FL	7+02.46
1360	1373.55 FL	7+02.46
1365	1373.55 FL	7+02.46
1370	1373.55 FL	7+02.46
1375	1373.55 FL	7+02.46
1380	1373.55 FL	7+02.46
1385	1373.55 FL	7+02.46
1390	1373.55 FL	7+02.46
1395	1373.55 FL	7+02.46
1400	1373.55 FL	7+02.46

FILE: L:\2024\171-200321 - Pegasus Addition Design\Drawings\SS INTERNAL SHEETS\SS LINE 3-2.dwg  
 Plot Scale: 1"=80' Plot Date: 8/19/2024 2:28 AM Plot User: DRS  
 Lined by: DRS



1995 Marfield Road  
Wichita, KS 67209  
(316) 264-8008



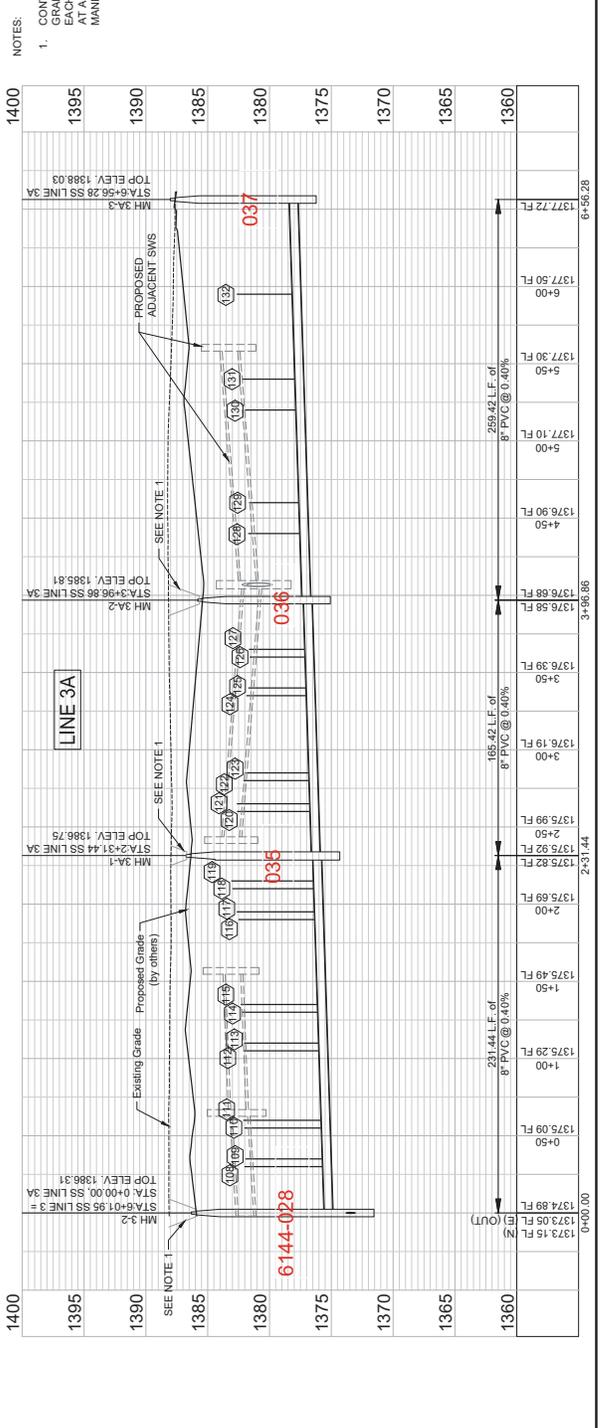
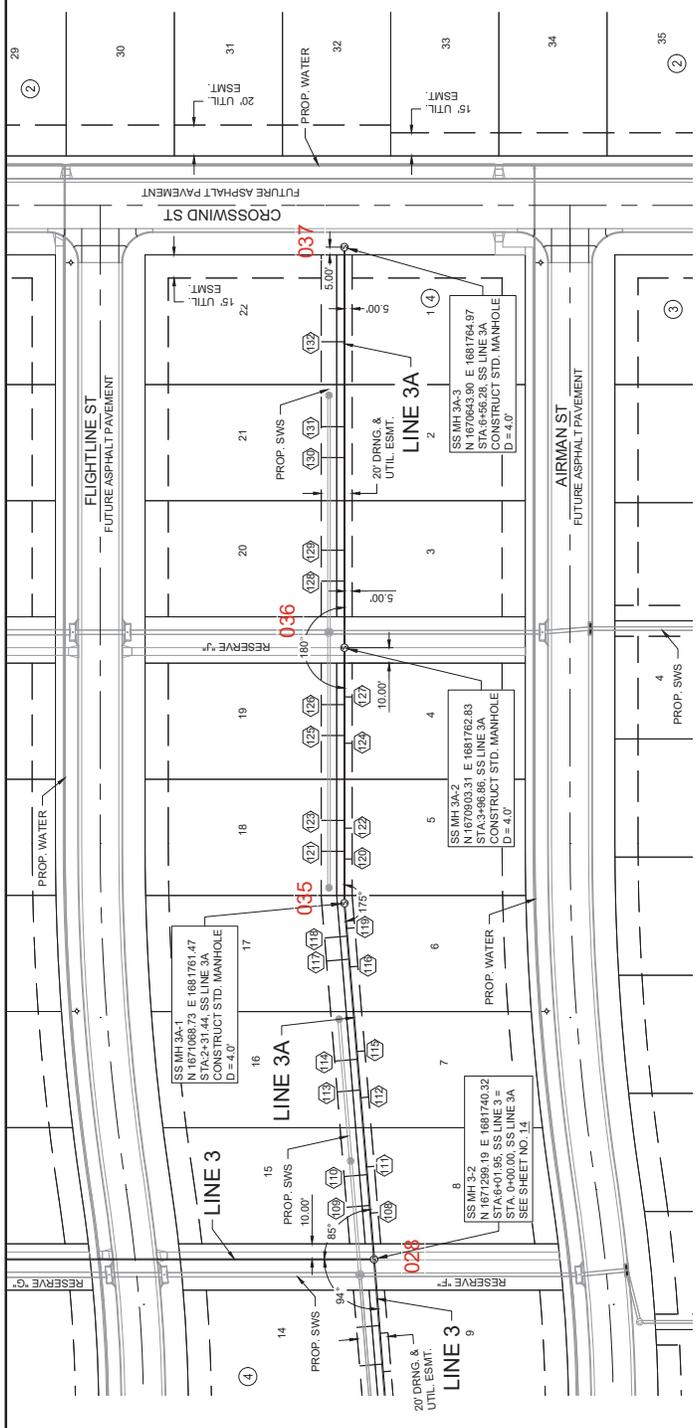
WICHITA, KANSAS  
CITY OF WICHITA  
SANITARY SEWER  
SS LINE 3A

JOB NO. 2400321  
DATE: AUGUST 2024  
DESIGNED BY: E/JG  
DRAWN BY: DRS

RECORD DRAWINGS  
Contractor: **Novak Construction**  
Superintendent: **Dave Green**  
Inspector: **Russel**  
Inspection Firm: **Garver**  
P.D.F. # **00342223**

DATE PLOTTED: 8/19/2024 2:39 AM  
PLOT SCALE: 1"=40'  
PLOT SIZE: 11.00" X 17.00"

FILE: L:\2024\171-2400321 - Pegasus Addition Design\Drawings\SS INTERNAL SHEETS\SS LINE 3A.dwg  
LAST PLOTTED BY: DRS  
LAST PLOTTED DATE: 8/19/2024 2:39 AM



STATION	ELEVATION	DESCRIPTION
0+00.00	1373.15	MH 3-2
0+50	1375.09	SS LINE 3A
1+00	1375.29	SS LINE 3A
1+50	1375.49	SS LINE 3A
2+00	1375.69	SS LINE 3A
2+31.44	1375.82	MH 3A-1
2+50	1375.92	SS LINE 3A
3+00	1376.19	SS LINE 3A
3+50	1376.39	SS LINE 3A
3+96.86	1376.59	MH 3A-2
4+50	1376.90	SS LINE 3A
5+00	1377.10	SS LINE 3A
5+50	1377.30	SS LINE 3A
6+00	1377.50	SS LINE 3A
6+56.28	1377.72	MH 3A-3

NOTES:  
1. CONTRACTOR TO RESTORE GRADE TO EXISTING WITH THE EXCEPTION FOR GRADE NEAR MANHOLES. CONTRACTOR TO GRADE 5' DIAMETER AROUND EACH MANHOLE TO FUTURE GRADE AND THEN MATCH TO EXISTING GRADE AT A 3% SLOPE. TEMPORARY GRADING AROUND MANHOLES SUBSIDIARY TO MANHOLE CONSTRUCTION.





REV.	DATE	DESCRIPTION	BY

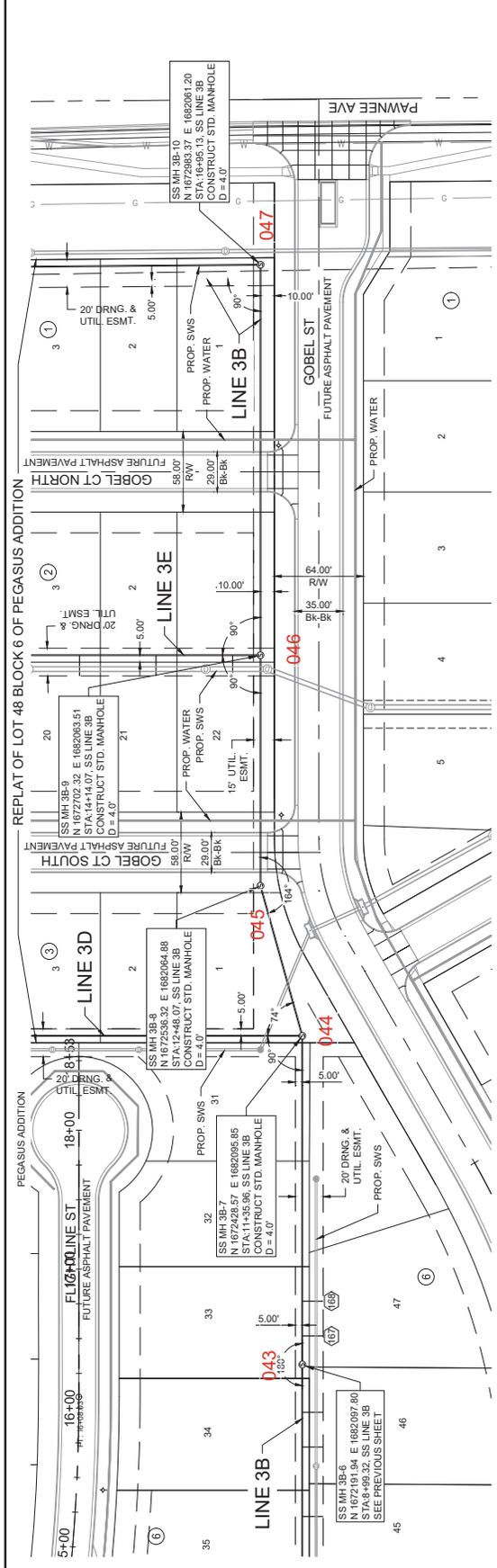


CITY OF WICHITA  
 WICHITA, KANSAS  
 PEGASUS ADDITION  
 SANITARY SEWER

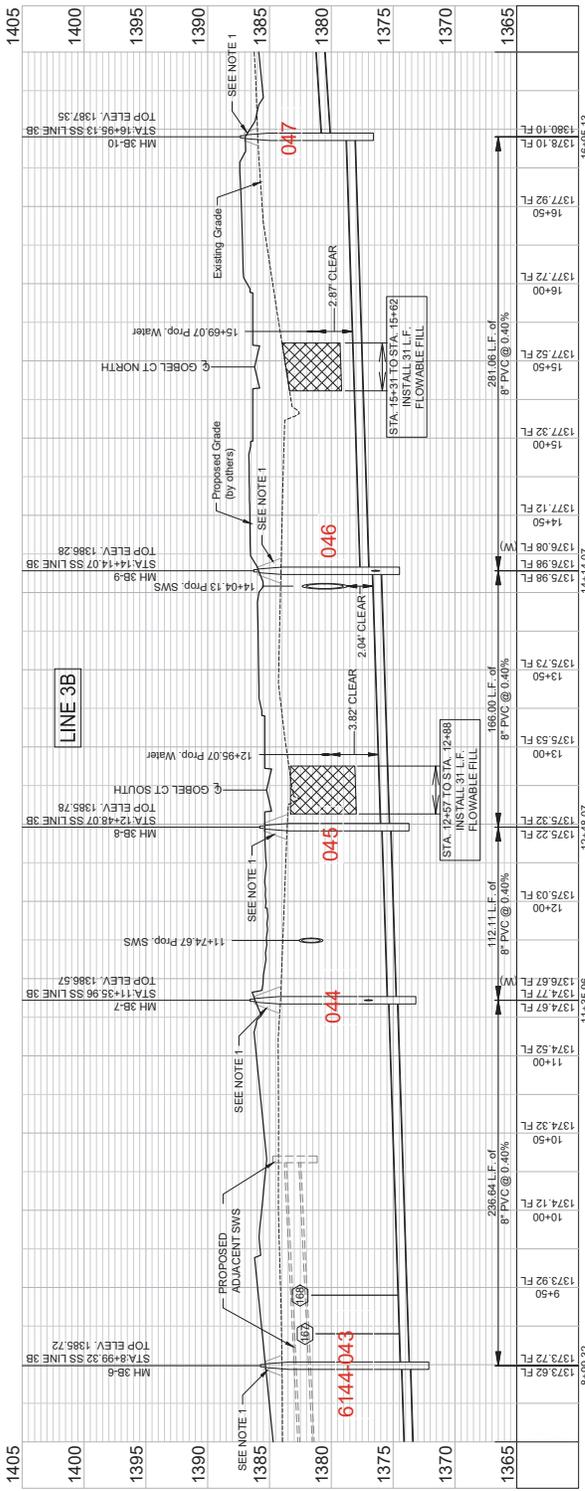
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 (2 of 3)

JOB NO. 2400321  
 DATE: AUGUST 2024  
 DESIGNED BY: E/JG  
 DRAWN BY: DRS

SHEET NUMBER **18 of 36**

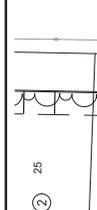


NOTES:  
 1. CONTRACTOR TO RESTORE GRADE TO EXISTING WITH THE EXCEPTION FOR GRADE NEAR MANHOLES. CONTRACTOR TO GRADE 5' DIAMETER AROUND EACH MANHOLE TO FUTURE GRADE AND THEN MATCH TO EXISTING GRADE AT A 3:1 SLOPE. TEMPORARY GRADING AROUND MANHOLES SUBSIDIARY TO MANHOLE CONSTRUCTION.



**RECORD DRAWINGS**  
 Client: City of Wichita  
 Contractor: Nowak Construction  
 Consultant: David Stronck  
 Inspector: Russel Green  
 Design Firm: Garver  
 PDF File: R03 042225



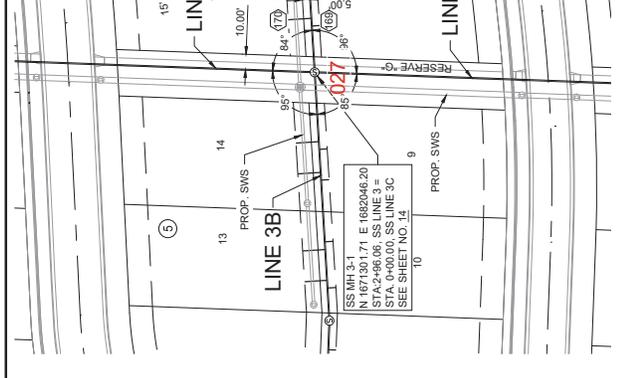
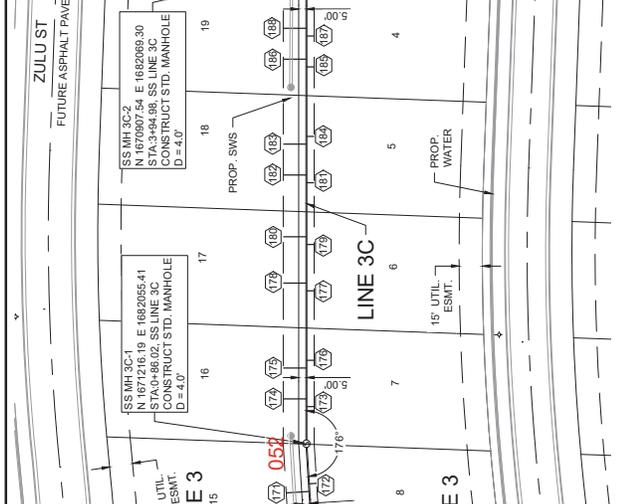
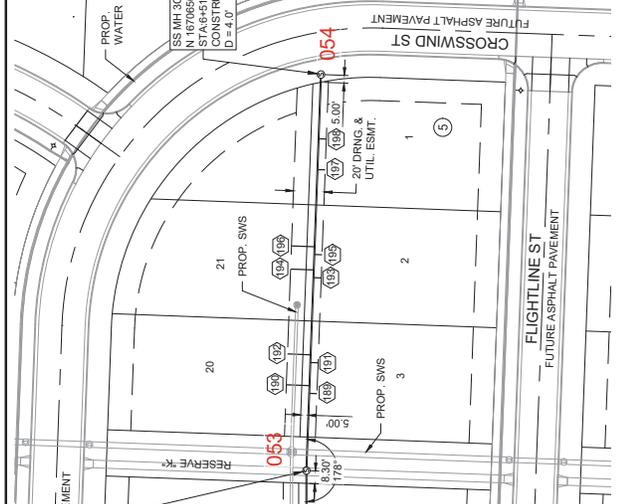


RECORD DRAWINGS  
 Client: City of Wichita  
 Contractor: Nowak  
 Superintendent: Dave Stareck  
 Inspector: Russel  
 Inspection Firm: Garver  
 PDF BY: RDG 04/22/25

JOB NO. 2400321  
 DATE: AUGUST 2024  
 DESIGNED BY: E/JG  
 DRAWN BY: DRS  
 SUPERVISOR: DAVE STARECK  
 INSPECTOR: RUSSEL  
 INSPECTION FIRM: GARVER  
 PDF BY: RDG 04/22/25

CITY OF WICHITA  
 WICHITA, KANSAS  
 SANITARY ADDITION  
 SS LINE 3C

SHEET NUMBER 20 OF 36

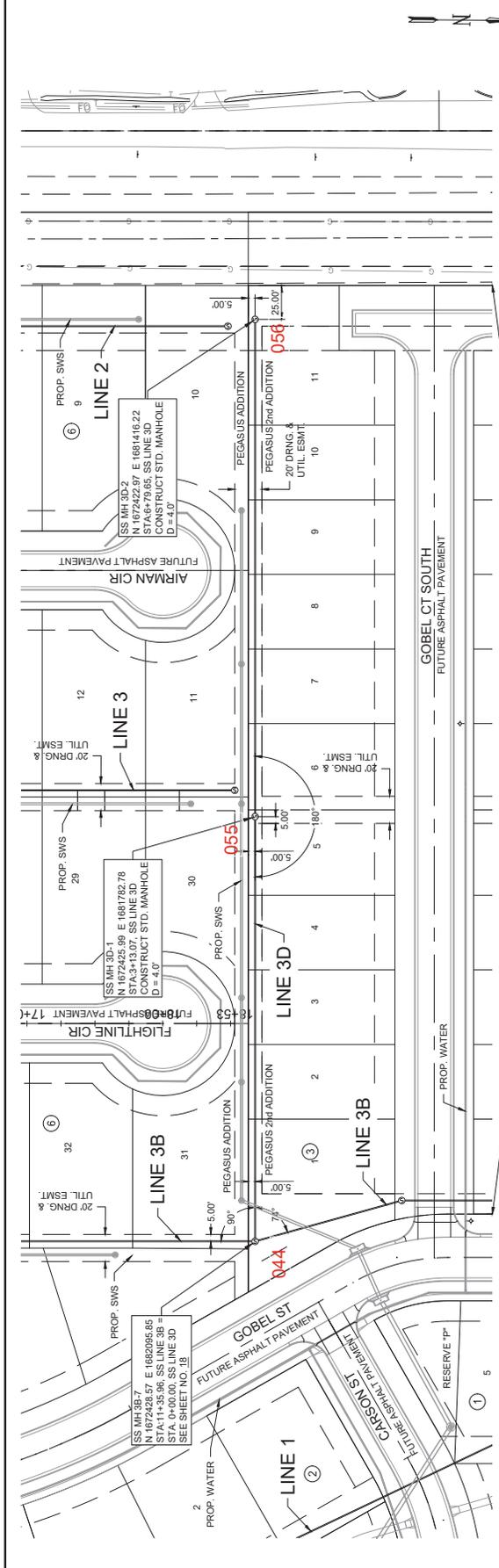


NOTES:  
 1. CONTRACTOR TO RESTORE GRADE TO EXISTING WITH THE EXCEPTION FOR GRADE NEAR MANHOLES. CONTRACTOR TO GRADE 5' DIAMETER AROUND EACH MANHOLE TO FUTURE GRADE AND THEN MATCH TO EXISTING GRADE AT A 3:1 SLOPE. TEMPORARY GRADING AROUND MANHOLES SUBSIDIARY TO MANHOLE CONSTRUCTION.



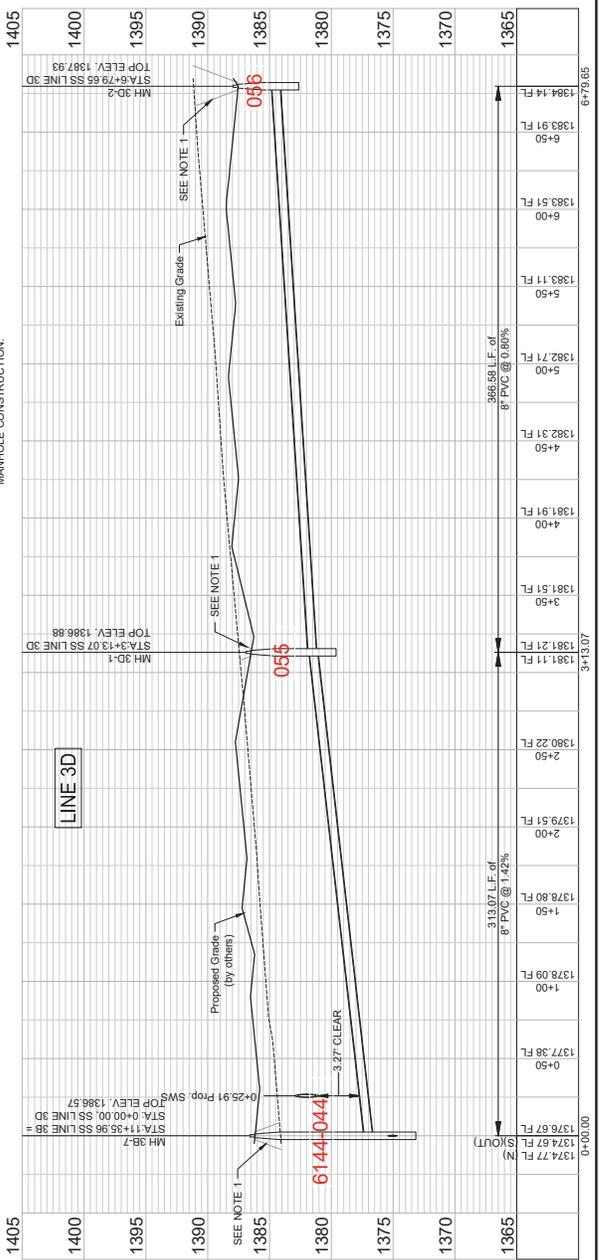
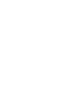
Station	Manhole	Top Elevation	Notes
1374.42	MH 3-1	1374.42	TOP ELEV. 1384.31
1374.42	MH 3-1	1374.42	TOP ELEV. 1384.31
1372.03	MH 3-1	1372.03	TOP ELEV. 1384.65
1372.57	MH 3-1	1372.57	TOP ELEV. 1384.65
1372.47	MH 3-1	1372.47	TOP ELEV. 1384.65
1373.03	MH 3-1	1373.03	TOP ELEV. 1384.65
1373.03	MH 3-1	1373.03	TOP ELEV. 1384.65
1373.23	MH 3-1	1373.23	TOP ELEV. 1384.65
1373.43	MH 3-1	1373.43	TOP ELEV. 1384.65
1373.63	MH 3-1	1373.63	TOP ELEV. 1384.65
1373.81	MH 3-2	1373.81	TOP ELEV. 1384.51
1373.91	MH 3-2	1373.91	TOP ELEV. 1384.51
1374.13	MH 3-2	1374.13	TOP ELEV. 1384.51
1374.33	MH 3-2	1374.33	TOP ELEV. 1384.51
1374.53	MH 3-2	1374.53	TOP ELEV. 1384.51
1374.73	MH 3-2	1374.73	TOP ELEV. 1384.51
1374.94	MH 3-3	1374.94	TOP ELEV. 1386.23

1. CONTRACTOR TO RESTORE GRADE TO EXISTING WITH THE EXCEPTION FOR GRADE NEAR MANHOLES. CONTRACTOR TO GRADE 5' DIAMETER AROUND EACH MANHOLE TO FUTURE GRADE AND THEN MATCH TO EXISTING GRADE AT A 3:1 SLOPE. TEMPORARY GRADING AROUND MANHOLES SUBSIDIARY TO MANHOLE CONSTRUCTION.



REPLAT OF LOT 48 BLOCK 6 OF PEGASUS ADDITION

- NOTES:
- CONTRACTOR TO RESTORE GRADE TO EXISTING WITH THE EXCEPTION FOR GRADE NEAR MANHOLES. CONTRACTOR TO GRADE 5' DIAMETER AROUND EACH MANHOLE TO FUTURE GRADE AND THEN MATCH TO EXISTING GRADE AT 3:1 SLOPE. TEMPORARY GRADING AROUND MANHOLES SUBSIDIARY TO MANHOLE CONSTRUCTION.



RECORD DRAWINGS  
 Client: City of Wichita  
 Contractor: Nowak  
 Designer: E.J.G.  
 Drawn By: DRS  
 Checked: DRS  
 Approved: Dave  
 Inspector: Russel  
 Green-Hatch Firm: Garver  
 Project No: 21-036  
 Drawing No: 0444

1995 Modified Road  
 Wichita, KS 67209  
 (316) 264-8008



REV.	DATE	DESCRIPTION

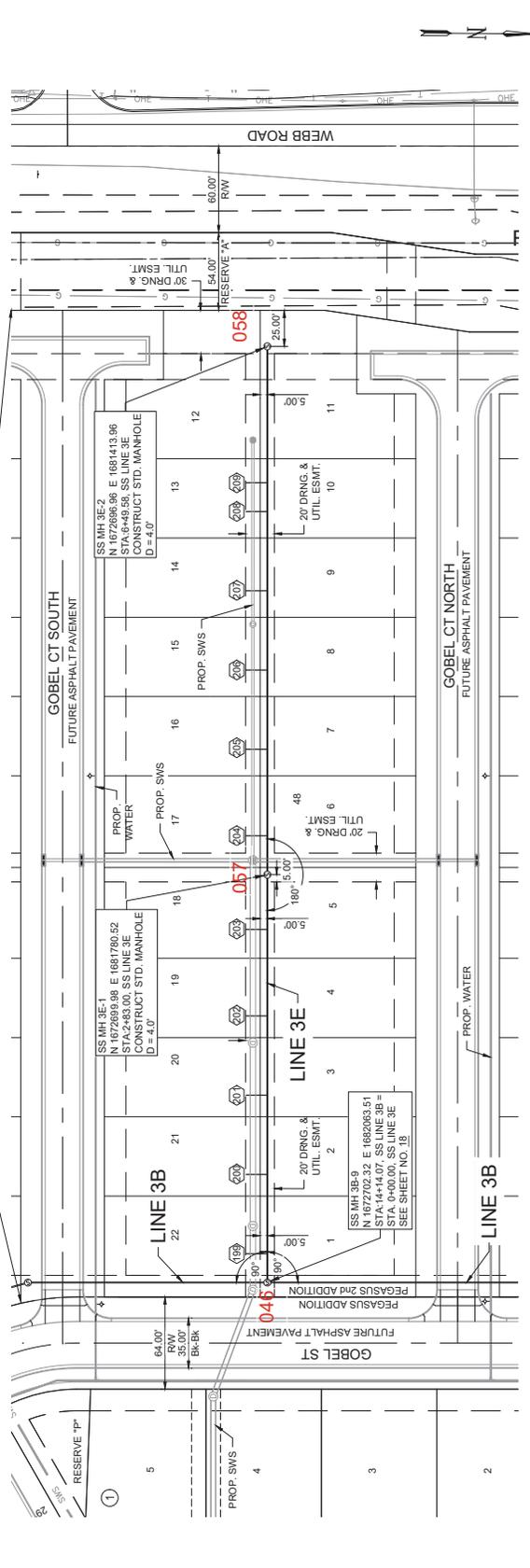


CITY OF WICHITA  
 WICHITA, KANSAS  
 PEGASUS ADDITION  
 SANITARY SEWER  
 SS LINE 3D

JOB NO. 2400521  
 DATE: AUGUST 2024  
 DESIGNED BY: E.J.G.  
 DRAWN BY: DRS

SHEET NUMBER 21 OF 36

REPLAT OF LOT 48 BLOCK 6 OF PEGASUS ADDITION



NOTES:

- CONTRACTOR TO RESTORE GRADE TO EXISTING WITH THE EXCEPTION FOR GRADE IN MANHOLES. SEE NOTES TO SHEET 22 OF 36 FOR EACH MANHOLE TO FUTURE GRADE AND THEN MATCH TO EXISTING GRADE AT A 3:1 SLOPE. TEMPORARY GRADING AROUND MANHOLES SUBSIDIARY TO MANHOLE CONSTRUCTION.



Station	Elevation (ft)	Notes
0+00.00	1377.98	MH 39-9 (OUT)
0+50	1376.28	
1+00	1376.48	
1+50	1376.68	
2+00	1377.08	
2+50	1377.21	
2+83.00	1377.21	STA 2+83.00 SS LINE 3E MH 3E-1 TOP ELEV. 1386.94
3+50	1378.75	
4+00	1379.15	
4+50	1379.55	
5+00	1379.95	
5+50	1380.35	
6+00	1380.75	
6+49.58	1381.14	



REV.	DATE	DESCRIPTION

JOB NO. 2400321  
 DATE: AUGUST 2024  
 DESIGNED BY: E/JG  
 DRAWN BY: DRS  
 CHECKED BY: DRS  
 DATE: 08/20/24  
 PROJECT NO. 2400321  
 DRAWING NUMBER

REGIS. DRAWINGS  
 City of Wichita  
 Contractor: Nowak  
 Construction  
 Superintendent: Dave  
 Inspector: Russell  
 Green  
 Project File: C:\p\p\2400321  
 PDF BY: RDS 04/22/24

SHEET NUMBER 22 OF 36





SEWER SERVICE RISER TABLE

NO.	SERVING			STATION/ DIRECTION		FOR INFORMATION ONLY		
	LOT NO.	BLOC NO.	LINE NO.	STATION	DIRECTION	APPROXIMATE LENGTH 4" PIPE	HORIZONTAL	
1	874	TEE	19	2	1	14425 / L	12.1	5.0
2	874	TEE	19	2	1	14450 / L	11.4	5.0
3	874	TEE	18	2	1	1535 / L	11.4	5.0
4	874	TEE	17	2	1	1645 / L	11.2	5.0
5	874	TEE	17	2	1	1645 / L	11.1	5.0
6	874	TEE	17	2	1	17425 / L	10.8	5.0
7	874	TEE	16	2	1	17425 / L	10.5	5.0
8	874	TEE	15	2	1	18400 / L	10.0	5.0
9	874	TEE	15	2	1	18400 / L	9.9	5.0
10	874	TEE	14	2	1	18400 / L	9.5	5.0
11	874	TEE	14	2	1	19400 / L	9.5	5.0
12	874	TEE	13	2	1	19450 / L	9.5	5.0
13	874	TEE	13	2	1	19450 / L	9.5	5.0
14	874	TEE	13	2	1	19470 / L	9.6	5.0
15	874	TEE	12	2	1	20460 / L	10.4	10.0
16	874	TEE	12	2	1	20460 / L	10.3	9.7
17	874	TEE	11	2	1	21400 / L	10.2	8.7
18	874	TEE	11	2	1	21400 / L	9.6	7.5
19	874	TEE	10	2	1	22415 / L	9.6	7.5
20	874	TEE	10	2	1	22435 / L	9.6	7.2
21	874	TEE	9	2	1	22490 / L	9.3	6.3
22	874	TEE	9	2	1	23410 / L	9.3	6.0
23	874	TEE	8	2	1	23475 / L	9.3	5.0
24	874	TEE	7	2	1	24450 / L	8.9	5.0
25	874	TEE	7	2	1	24470 / L	8.8	5.0
26	874	TEE	6	2	1	25425 / L	8.8	5.0
27	874	TEE	6	2	1	25425 / L	8.7	5.0
28	874	TEE	5	2	1	26400 / L	8.6	5.0
29	874	TEE	5	2	1	26400 / L	8.5	5.0
30	874	TEE	5	2	1	26400 / L	8.5	5.0
31	874	TEE	5	2	1	26400 / L	8.5	5.0
32	874	TEE	23	2	2	0485 / R	10.1	15.0
33	874	TEE	24	2	2	1435 / R	10.5	15.0
34	874	TEE	24	2	2	1435 / R	10.5	15.0
35	874	TEE	24	2	2	1435 / R	10.5	15.0
36	874	TEE	25	2	2	2410 / R	11.0	15.0
37	874	TEE	25	2	2	2430 / R	11.1	15.0
38	874	TEE	25	2	2	2430 / R	11.1	15.0
39	874	TEE	26	2	2	2430 / R	11.5	15.0
40	874	TEE	27	2	2	3445 / R	11.3	15.0
41	874	TEE	27	2	2	3465 / R	11.3	15.0
42	874	TEE	28	2	2	4420 / R	11.4	15.0
43	874	TEE	28	2	2	4420 / R	11.4	15.0
44	874	TEE	29	2	2	4450 / R	12.2	15.0
45	874	TEE	29	2	2	4450 / R	12.2	15.0
46	874	TEE	30	2	2	5460 / R	12.8	15.0
47	874	TEE	31	2	2	6480 / R	12.4	15.0
48	874	TEE	31	2	2	6480 / R	11.5	15.0
49	874	TEE	32	2	2	6485 / R	12.0	15.0
50	874	TEE	32	2	2	7415 / R	12.2	15.0
51	874	TEE	33	2	2	7490 / R	12.8	15.0
52	874	TEE	33	2	2	7490 / R	12.8	15.0
53	874	TEE	34	2	2	8460 / R	11.8	15.0
54	874	TEE	34	2	2	8460 / R	11.4	15.0
55	874	TEE	35	2	2	9410 / R	10.5	15.0
56	874	TEE	35	2	2	9430 / R	10.1	15.0
57	874	TEE	36	2	2	1045 / R	8.1	5.0
58	874	TEE	36	2	2	1045 / R	8.1	5.0
59	874	TEE	1	3	2	12425 / R	9.0	5.0
60	874	TEE	1	3	2	12485 / R	8.6	5.0
61	874	TEE	1	3	2	13450 / R	8.7	5.0
62	874	TEE	2	3	2	13470 / R	9.0	5.0
63	874	TEE	3	3	2	14425 / R	8.7	5.0
64	874	TEE	4	3	2	15465 / R	7.3	5.0
65	874	TEE	4	3	2	15465 / R	7.3	5.0
66	874	TEE	4	3	2	15425 / R	8.2	5.0
67	874	TEE	5	3	2	15475 / R	8.1	5.0
68	874	TEE	5	3	2	15495 / R	7.8	5.0
69	874	TEE	6	3	2	16455 / R	7.7	5.0
70	874	TEE	6	3	2	16455 / R	7.7	5.0
71	874	TEE	7	3	2	17445 / R	8.1	5.0
72	874	TEE	7	3	2	17445 / R	8.2	5.0
73	874	TEE	14	4	3	6445 / R	7.3	5.0
74	874	TEE	4	3	3	6450 / L	8.1	5.0
75	874	TEE	14	4	3	6470 / R	8.3	15.0
76	874	TEE	9	4	3	6475 / L	8.4	5.0
77	874	TEE	10	4	3	7420 / L	8.4	5.0
78	874	TEE	10	4	3	7445 / L	8.2	5.0
79	874	TEE	10	4	3	7445 / L	8.2	5.0
80	874	TEE	10	4	3	7450 / R	8.3	15.0
81	874	TEE	11	4	3	8405 / R	8.1	5.0
82	874	TEE	12	4	3	8405 / R	8.0	15.0
83	874	TEE	11	4	3	8425 / L	7.8	5.0
84	874	TEE	20	6	3	9425 / L	7.0	5.0
85	874	TEE	20	6	3	9425 / L	7.0	5.0
86	874	TEE	21	6	3	9480 / R	7.0	15.0
87	874	TEE	21	6	3	10465 / R	6.9	15.0
88	874	TEE	20	6	3	10410 / L	6.9	5.0

SEWER SERVICE RISER TABLE

NO.	SERVING			STATION/ DIRECTION		FOR INFORMATION ONLY		
	LOT NO.	BLOC NO.	LINE NO.	STATION	DIRECTION	APPROXIMATE LENGTH 4" PIPE	HORIZONTAL	
89	874	TEE	22	6	3	10470 / L	6.3	5.0
90	874	TEE	22	6	3	10470 / L	6.4	15.0
91	874	TEE	19	6	3	10490 / L	6.5	5.0
92	874	TEE	19	6	3	10495 / R	6.8	15.0
93	874	TEE	17	5	3C	2420 / L	7.0	15.0
94	874	TEE	17	5	3C	2420 / L	7.0	15.0
95	874	TEE	18	5	3C	2460 / R	6.9	15.0
96	874	TEE	18	5	3C	2460 / R	6.9	15.0
97	874	TEE	18	5	3C	2460 / R	6.3	15.0
98	874	TEE	18	5	3C	2460 / R	6.3	15.0
99	874	TEE	4	5	3C	3430 / R	6.2	5.0
100	874	TEE	4	5	3C	3430 / R	6.3	15.0
101	874	TEE	4	5	3C	3435 / L	6.3	15.0
102	874	TEE	4	5	3C	3435 / L	6.3	15.0
103	874	TEE	4	5	3C	3435 / L	6.3	15.0
104	874	TEE	4	5	3C	3435 / L	6.3	15.0
105	874	TEE	4	5	3C	3435 / L	6.3	15.0
106	874	TEE	4	5	3C	3435 / L	6.3	15.0
107	874	TEE	27	6	3	14450 / R	3.8	15.0
108	874	TEE	27	6	3	14450 / R	3.8	15.0
109	874	TEE	27	6	3	14470 / R	3.8	15.0
110	874	TEE	28	6	3	15430 / R	3.5	15.0
111	874	TEE	28	6	3	15430 / R	3.5	15.0
112	874	TEE	28	6	3	15450 / R	3.7	15.0
113	874	TEE	29	6	3	16400 / R	3.8	15.0
114	874	TEE	29	6	3	16400 / R	3.8	15.0
115	874	TEE	30	6	3	16425 / R	3.2	15.0
116	874	TEE	30	6	3	16425 / R	3.2	15.0
117	874	TEE	15	4	3A	0430 / R	6.3	5.0
118	874	TEE	15	4	3A	0435 / L	6.2	15.0
119	874	TEE	15	4	3A	0455 / L	6.2	15.0
120	874	TEE	15	4	3A	0455 / L	6.2	15.0
121	874	TEE	15	4	3A	0460 / R	6.3	5.0
122	874	TEE	15	4	3A	0460 / R	6.3	5.0
123	874	TEE	16	4	3A	1405 / R	6.1	5.0
124	874	TEE	16	4	3A	1405 / R	6.1	5.0
125	874	TEE	16	4	3A	1430 / L	6.1	15.0
126	874	TEE	16	4	3A	1430 / L	6.1	15.0
127	874	TEE	20	4	3A	3465 / R	4.5	5.0
128	874	TEE	20	4	3A	3465 / R	4.5	5.0
129	874	TEE	20	4	3A	4440 / L	4.1	15.0
130	874	TEE	21	4	3A	4460 / L	4.0	15.0
131	874	TEE	21	4	3A	5440 / L	4.1	15.0
132	874	TEE	22	4	3A	5440 / L	4.2	15.0
133	874	TEE	22	4	3A	5445 / L	4.4	15.0
134	874	TEE	22	4	3A	5445 / L	4.4	15.0
135	874	TEE	14	5	3B	0440 / L	8.9	5.0
136	874	TEE	14	5	3B	0440 / L	8.9	5.0
137	874	TEE	14	5	3B	0465 / R	10.0	15.0
138	874	TEE	14	5	3B	0465 / R	10.0	15.0
139	874	TEE	10	5	3B	0470 / L	10.1	15.0
140	874	TEE	10	5	3B	0470 / L	9.9	5.0
141	874	TEE	10	5	3B	1415 / L	10.0	15.0
142	874	TEE	13	5	3B	1440 / R	10.2	5.0
143	874	TEE	13	5	3B	1440 / R	10.2	5.0
144	874	TEE	12	5	3B	1485 / L	10.5	5.0
145	874	TEE	12	5	3B	1485 / L	10.5	5.0
146	874	TEE	12	5	3B	1485 / L	10.5	5.0
147	874	TEE	39	6	3B	4420 / L	8.5	5.0
148	874	TEE	39	6	3B	4420 / L	8.5	5.0
149	874	TEE	39	6	3B	4426 / R	8.5	15.0
150	874	TEE	39	6	3B	4426 / R	8.5	15.0
151	874	TEE	41	6	3B	4445 / L	8.5	5.0
152	874	TEE	41	6	3B	4445 / L	8.5	5.0
153	874	TEE	42	6	3B	5400 / R	8.3	15.0
154	874	TEE	42	6	3B	5400 / R	8.0	15.0
155	874	TEE	48	6	3B	5420 / L	7.8	15.0
156	874	TEE	48	6	3B	5420 / L	7.8	15.0
157	874	TEE	36	6	3B	5430 / L	7.6	5.0
158	874	TEE	36	6	3B	5430 / L	7.6	5.0
159	874	TEE	37	6	3B	5485 / R	7.7	15.0
160	874	TEE	37	6	3B	5485 / R	7.7	15.0
161	874	TEE	37	6	3B	5490 / L	7.5	5.0
162	874	TEE	37	6	3B	5490 / L	7.5	5.0
163	874	TEE						









1995 Marfield Road  
Wichita, KS 67209  
(316) 264-8008

REV.	DATE	DESCRIPTION



CITY OF WICHITA  
WICHTA, KANSAS  
PELAGAS ADDITION  
5' SANITARY SEWER

JOB NO.: 2400321  
DATE: AUGUST 2024  
DESIGNED BY: . . .  
DRAWN BY: . . .  
DATE PLOTTED: 8/20/2024 11:16 AM  
PROJECT: 2400321  
DRAWING NUMBER: 27B-36

Point #	Addition Point Table			Description
	Nothing	Easting	Grid Northing	
160	1671820.83	1682270.19	1671661.63	1682109.98 PT
161	1671972.48	1682242.20	1671813.26	1682082.00 PC
162	1671956.86	1682304.37	1671797.64	1682144.16 PC
163	1672334.35	1682248.10	1672195.09	1682087.90 PT
164	1672322.09	1682192.71	1672162.83	1682032.52 PT
165	1672466.65	1682182.58	1672307.38	1682022.38 BLOCK COR
166	1672516.77	1682153.39	1672357.49	1681993.19 BLOCK COR
167	1672444.45	1682098.08	1672325.22	1681919.13 BLOCK COR
168	1672570.63	1682138.70	1672411.35	1681974.51 PT
169	1672589.40	1682074.45	1672430.12	1681914.26 BLOCK COR
170	1672805.39	1682072.66	1672803.31	1681912.48 BLOCK COR
171	1672863.39	1682072.19	1672704.09	1681912.00 BLOCK COR
172	1672962.63	1682135.37	1672803.31	1681975.18 BLOCK COR
173	1672983.82	1682154.11	1672834.50	1681993.92 BLOCK COR
174	1673013.43	168214.45	1672854.10	1681954.26 RESERVE COR
175	1673043.42	168214.20	1672884.02	1681944.02 RESERVE COR
176	167303.34	1682104.45	1672854.02	1681944.27 RESERVE COR
177	167303.34	1682104.45	1672854.02	1681944.27 RESERVE COR
178	167303.34	1682104.45	1672854.02	1681944.27 RESERVE COR
179	1672859.23	1681445.63	1672898.92	1681285.51 BLOCK COR

Point #	Addition Point Table			Description
	Nothing	Easting	Grid Northing	
140	1671468.66	1682222.68	1671309.49	1682062.48 PC
141	1671690.44	1682175.43	1671441.26	1682015.23 BLOCK COR
142	1671564.57	1682122.30	1671405.39	1681962.12 BLOCK COR
143	1671585.96	1681987.59	1671426.76	1681928.00 BLOCK COR
144	1671650.06	1681937.59	1671466.87	1681937.32 PT
145	1671580.83	1681533.45	1671421.65	1681937.32 PT
146	1671644.71	1681538.83	1671485.52	1681937.32 PT
147	1671579.19	1681554.18	1671426.00	1681934.04 BLOCK COR
148	1671644.71	1681553.85	1671494.27	1681933.51 BLOCK COR
149	1671574.19	1681612.32	1671415.00	1681452.18 BLOCK COR
150	1671638.57	1681611.69	1671475.38	1681451.55 BLOCK COR
151	1671655.55	1681858.39	1671394.37	1681698.22 BLOCK COR
152	1671617.83	1681857.88	1671456.64	1681697.69 BLOCK COR
153	1671646.66	1681916.43	1671386.48	1681756.26 BLOCK COR
154	1671616.29	1681910.90	1671453.75	1681755.73 BLOCK COR
155	1671644.71	1682005.46	1671382.40	1681840.29 PC
156	1671665.36	1682005.94	1671446.17	1681845.66 PC
157	1671735.20	1682183.69	1671576.00	1682023.49 PRC
158	1671720.89	1682246.07	1671661.70	1682085.87 PRC
159	1671836.46	1682208.02	1671677.25	1682047.82 PT

Point #	Addition Point Table			Description
	Nothing	Easting	Grid Northing	
120	1670647.34	1681647.93	1670488.84	1681487.79 BLOCK COR
121	1670649.96	1681893.91	1670490.87	1681733.75 BLOCK COR
122	1670650.44	1681951.91	1670491.34	1681791.74 BLOCK COR
123	1670687.01	1682033.44	1670427.92	1681973.26 PC
124	1670851.11	1682032.91	1681872.73	1681973.26 PC
125	1670920.49	1682199.52	1670861.38	1682039.32 PT
126	1670921.02	1682263.62	1670861.90	1682103.41 PT
127	1670717.73	1682240.20	1670958.62	1682080.00 BLOCK COR
128	1670689.13	1682208.54	1670510.04	1682048.34 BLOCK COR
129	1670615.77	1682396.64	1670456.68	1682229.42 PT
130	1670673.77	1682389.38	1670457.24	1682355.08 BLOCK COR
131	1670616.34	1682515.31	1670457.24	1682355.08 BLOCK COR
132	1671033.66	1682197.76	1670874.53	1682037.57 PC
133	1671034.19	1682281.86	1670875.06	1682101.68 PC
134	1671233.99	1682192.36	1671074.84	1682022.17 PRC
135	1671243.26	1682245.79	1671084.11	1682085.58 PRC
136	1671318.60	1682236.65	1671159.44	1682076.45 PT
137	1671312.63	1682172.93	1671153.47	1682012.74 PT
138	1671482.67	1682198.86	1671303.50	1681988.66 PC
139	1671482.67	1682198.86	1671303.50	1681988.66 PC

Point #	Addition Point Table			Description
	Nothing	Easting	Grid Northing	
100	1670430.95	1681353.63	1670271.88	1681193.52 ADDITION COR
101	1672740.33	1681334.60	1672591.03	1681174.48 ADDITION COR
102	1672940.59	1681348.77	1672681.29	1681188.66 ADDITION COR
103	1672980.59	1681347.54	1672891.27	1681187.42 ADDITION COR
104	1673015.99	1681372.33	1672856.67	1681212.21 ADDITION COR
105	1673018.47	1681622.31	1672859.15	1681382.18 ADDITION COR
106	1673035.12	1681622.18	1672975.80	1681462.04 ADDITION COR
107	1673051.29	1682090.57	1672891.97	1682440.34 ADDITION COR
108	1670463.94	1682516.30	1670394.86	1682456.07 ADDITION COR
109	1670581.50	1681352.39	1670422.41	1681192.28 RESERVE COR
110	1670645.92	1681351.87	1670486.40	1681191.20 RESERVE COR
111	1670585.62	1681344.12	1671426.43	1681184.00 RESERVE COR
112	1671649.62	1681345.59	1671480.42	1681183.47 RESERVE COR
113	1672417.32	1681337.26	1672258.05	1681177.15 RESERVE COR
114	1673042.54	1682070.71	1672883.21	1681910.53 RESERVE COR
115	1673043.91	1682153.70	1672884.58	1681993.51 RESERVE COR
116	1670432.36	1681407.62	1670273.29	1681247.50 BLOCK COR
117	1670581.94	1681406.39	1670422.85	1681246.27 BLOCK COR
118	1670645.94	1681405.86	1670486.84	1681245.74 BLOCK COR
119	1670647.46	1681589.93	1670488.36	1681429.80 BLOCK COR

Point #	Addition Point Table			Description
	Nothing	Easting	Grid Northing	
220	1671404.99	1681917.81	1671245.82	1681757.45 PT
221	1671666.25	1681857.46	1671507.05	1681897.30 PC
222	1671666.72	1681915.46	1671507.53	1681755.29 PC
223	1671876.15	1681936.97	1671716.94	1681776.80 PRC
224	1671890.30	1681890.26	1671731.09	1681720.09 PRC
225	167167.05	1681998.42	1672007.81	1681748.25 PT
226	167167.05	1681998.42	1672007.81	1681748.25 PT
227	1672314.65	1681907.20	1672155.40	1681747.03 BLOCK COR
228	1672315.13	1681965.20	1672155.87	1681805.03 BLOCK COR
229	1672385.96	1682369.61	1672224.70	1682209.40 BLOCK COR
230	1672206.02	1682429.27	1672046.78	1682269.05 BLOCK COR
231	167184.03	1682311.30	1672024.79	1682151.10 BLOCK COR
232	1671928.86	1682415.80	1671769.64	1682255.59 BLOCK COR
233	1671661.09	1682348.52	1671601.80	1682188.31 BLOCK COR
234	1671338.21	1682351.18	1671179.05	1682190.97 BLOCK COR
235	1671179.83	1682380.56	1671020.68	1682220.35 BLOCK COR
236	1670800.75	1682383.62	1670846.64	1682223.41 BLOCK COR
237	1670889.78	1682384.20	1670850.67	1682353.97 BLOCK COR

Point #	Addition Point Table			Description
	Nothing	Easting	Grid Northing	
200	1672542.27	1682618.87	1672383.00	1682443.43 BLOCK COR
201	1671028.63	1681586.79	1670869.49	1681426.65 PC
202	1671029.10	1681644.79	1670869.97	1681484.65 PC
203	1671248.32	1681568.46	1671089.17	1681408.32 PRC
204	1671257.46	1681625.74	1671098.31	1681465.59 PRC
205	1671402.01	1681555.64	1671242.84	1681395.50 PT
206	1671402.01	1681555.64	1671242.84	1681453.49 PT
207	1671663.74	1681533.48	1671594.55	1681389.35 PC
208	1671664.22	1681611.48	1671595.03	1681451.34 PC
209	1671801.51	1681620.09	1671642.30	1681459.95 PRC
210	1672017.21	1681575.05	1671857.98	1681415.52 PT
211	1672017.21	1681575.05	1671857.98	1681415.52 PT
212	1672017.21	1681575.05	1671857.98	1681415.52 PT
213	1672311.40	1681573.23	1672152.15	1681413.09 BLOCK COR
214	1672311.88	1681631.23	1672152.63	1681473.51 PT
215	1671031.13	1681890.77	1670972.00	1681730.60 PC
216	1671031.61	1681948.77	1670972.48	1681788.80 PC
217	1671250.83	1681872.44	1671091.68	1681712.27 PRC
218	1671259.97	1681929.71	1671100.82	1681769.54 PRC
219	1671404.51	1681859.82	1671245.34	1681699.45 PT

Point #	Addition Point Table			Description
	Nothing	Easting	Grid Northing	
180	1672989.23	1681445.29	1672739.92	1681285.17 BLOCK COR
181	1672988.87	1681402.29	1672739.56	1681242.17 BLOCK COR
182	1672758.78	1681391.74	1672599.48	1681231.62 BLOCK COR
183	1672759.23	1681446.45	1672599.93	1681286.32 BLOCK COR
184	1672900.23	1681446.11	1672640.93	1681285.98 BLOCK COR
185	1672624.76	1681398.52	1672485.47	1681229.40 BLOCK COR
186	1672625.15	1681437.59	1672465.87	1681227.77 BLOCK COR
187	1672584.15	1681437.89	1672424.87	1681277.77 BLOCK COR
188	1672526.16	1681438.37	1672366.88	1681278.24 BLOCK COR
189	1672485.16	1681438.62	1672325.89	1681278.49 BLOCK COR
190	1672484.76	1681390.71	1672325.49	1682079.60 PC
191	1672516.98	1682286.99	1672357.70	1682108.79 PC
192	1672567.10	1682330.80	1672325.49	1682079.60 PC
193	1672588.21	1682353.17	1672438.93	1682192.86 PT
194	1672540.21	1682353.64	1672380.94	1682193.43 PT
195	1672588.76	1682420.03	1672439.48	1682259.81 BLOCK COR
196	1672599.02	1		



**GENERAL SEED NOTES FOR ALL MIXES**

1. THE CONTRACTOR SHALL PROVIDE GRASS SEED OF THE VARIETY AND AT THE RATES AS REQUIRED TO PRODUCE THE LIVE SEED RATES SHOWN BELOW OR AS SPECIFIED ON GRASS MIX THE STATING EACH VARIETY PERCENTAGE BY WEIGHT, AND PERCENTAGES OF PURITY, GERMINATION, AND WEED SEED SHALL BE FURNISHED. LIVE SEED FOR EACH PERCENTAGE OF GERMINATION.
  - 1.1. THE SEED SHALL BE NEW-CROP SEED COMPLYING WITH AND LABELED IN ACCORDANCE WITH U.S. DEPARTMENT OF AGRICULTURE RULES AND REGULATIONS OF SEED. ALL SEED SHALL BE FURNISHED IN STANDARD CONTAINERS, SEED STORAGE SHALL NOT BE ACCEPTED. WHICH HAS BECOME MOIST, WET, OR OTHERWISE DAMAGED IN TRANSIT OR STORAGE.
  - 1.2. A CERTIFICATE SHALL BE FURNISHED TO THE ENGINEER SHOWING THE DATE THAT THE SEED WAS TREATED, THE TREATED SEED SHALL BE PLANTED WITHIN TWENTY-FOUR (24) MONTHS AFTER TREATMENT AND UNTIL TREATED BUFFALO SEED SHALL NOT BE USED. THE CONTRACTOR OR SUBCONTRACTOR BEYOND THIS PERIOD SHALL NOT BE USED.
  - 1.3. THE SEED SHALL BE STORED IN A COOL, DRY PLACE UNTIL SEEDING TIME.
2. FERTILIZER
  - 2.1. FERTILIZER SHALL BE PROPORTIONED AS SPECIFIED ON THE PLANS OR SHOWN FREE-FLOWING AND SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT, DELIVERED TO THE SITE IN BAGS OR OTHER CONVENIENT CONTAINERS, EACH CONTAINER BEARING THE SAME TRADE NAME OR TRADE MARK, ANALYSIS AND WARRANTY OF THE PRODUCER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 5 POUNDS OF ACTUAL POTASSIUM PER 1,000 SQUARE FEET. PHOSPHORUS, AND 3 POUNDS OF ACTUAL POTASSIUM PER 1,000 SQUARE FEET.
- 2.2. WHEN APPLYING FERTILIZER, THE CONTRACTOR SHALL AVOID APPLICATION PRIOR TO HEAVY RAIN OR INTENSE STORMS.
3. WATER
  - 3.1. WATER SHALL NOT CONTAIN LIME OR OTHER ALKALINE SUBSTANCES WHICH MAY BE HARMFUL TO THE GRASS. THE CONTRACTOR OR SUBCONTRACTOR SHALL ESTABLISH AND MAINTAIN WATERING EQUIPMENT AS REQUIRED FOR THE ESTABLISHMENT AND MAINTENANCE OF GRASSED AREAS.
4. SITE PREPARATION
  - 4.1. (EXCEPT AS PROVIDED BELOW), AFTER THE CONSTRUCTION HAS BEEN COMPLETED AS SHOWN ON THE PLANS, AND OTHER PLANTINGS HAVE BEEN ACCOMPLISHED, WHEN SO DIRECTED OR PERMITTED BY THE ENGINEER, PORTIONS OF THE CONSTRUCTION SITE MAY BE GRASSSED AT DIFFERENT PERIODS OF TIME. ANY GRASSSED AREAS DAMAGED BY SUBSEQUENT OPERATIONS OF THE CONTRACTOR SHALL BE REPLANTED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
    - 4.1.1. NOZILL, IT IS PREFERRED FOR THE AREAS OUTSIDE OF THE GRADING LIMITS, TO BE RE-TILLED INTO THE EXISTING SUBGRADE. NO SITE PREPARATION IS REQUIRED BEFORE NOZILL SEEDING. AREAS TO BE TILLED (WITHIN GRADING LIMITS) SHALL BE PREPARED PER THE FOLLOWING NOTES:
      - 4.1.1.1. TILLAGE: THE AREAS REQUIRED TO BE GRASSSED SHALL BE PREPARED FOR PLANTING BY CULTIVATION, REMOVAL OF ALL OBSTACULAR MATERIAL, AND REMOVAL OF ALL WEEDS AND GRASSES. THE SOIL PREPARATION SHALL BE ACCORDING TO THE FOLLOWING: THE MINIMUM DEPTH OF SOIL TO BE GRASSSED SHALL BE AS SPECIFIED ON THE PLANS. THE MINIMUM DEPTH OF SOIL TO BE GRASSSED SHALL BE CUT BY THE DISK AND PARTIALLY INCORPORATED INTO THE SOIL.
      - 4.1.1.2. SEVERAL DISKINGS AND HARROWINGS OVER SOME AREAS MAY BE REQUIRED TO MAKE THE SOIL SUITABLE FOR SEEDING. THE DISKING AND HARROWING SHALL BE ACCESSIBLE FOR DISKING SHALL BE PREPARED BY HAND METHODS. THE MINIMUM DEPTH OF PREPARATION OF THE SEEDBED WHERE HAND METHODS ARE USED SHALL BE AS SPECIFIED ON THE PLANS. THE DISKING AND HARROWING SHALL BE DONE LONGITUDINALLY ON SLOPE AREAS.
    - 4.1.1.3. THE SOIL PREPARATION ON ALL SLOPE AREAS SHALL BE PERFORMED WITH DISKS HARROWING AND THAT HAND METHODS MUST BE USED.
  - 4.1.2. DURING THE PROCESS OF SOIL PREPARATION, EXTREME CARE SHALL BE EXERCISED TO AVOID INJURY TO ALL TREES THAT HAVE BEEN PLANTED OR DESIGNATED BY THE ENGINEER TO BE SAVED.
- 4.2. THE ENGINEER MAY DESIGNATE LOCAL AREAS OF DESIRABLE NATIVE PERENNIAL GRASSES, SUCH AS CHEAT, CRAB GRASS, TRIFLE-AW, ETC., SHALL BE DESTROYED BY THOROUGH DISKING PRIOR TO SEEDING.
- 4.3. AREAS WHICH ARE LEFT AFTER THE DISKING SHALL BE UNDISTURBED, UNLESS BY AT RATES SHOWN ON THE SEEDING SCHEDULE ON THIS PAGE AND OVER THE AREA TO BE PLANTED AND SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF AT LEAST 2 INCHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE ENGINEER. DISTRIBUTION BY MEANS OF AN APPROVED SEED DRILL OR HYDRO SEEDER EQUIPPED TO SOU-SEED AND DISTRIBUTE FERTILIZER AT THE SAME TIME WILL BE ACCEPTABLE UNLESS OTHERWISE NOTED ON THE PLANS.
- 4.4. AFTER FINAL DISKING, CONTRACTORS SHALL BE ALLOWED TO DISK BY DISKING HARROWING, ETC., WHEN SPECIFIED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER AND FURNISHED BY THE OWNER.

5. SEEDING
  - 5.1. TIME OF SEEDING: THE TWO GENERAL SEEDING SEASONS SHALL BE AS DEFINED FOR TEMPORARY AND PERMANENT SEEDING. THE PERMISSIBLE SEEDING SEASONS SHALL BE AS SPECIFIED ON THE PLANS. THE CONTRACTOR SHALL CARES WHEN MULCHING IS SPECIFIED TO FOLLOW THE DRILLING OF SEEDS AND FERTILIZER.
    - 5.1.1. THE ENGINEER TO MAKE THE RIGHT TO PLANT, TO PREPARE THE SOIL, TO WEATHER OR SOIL CONDITIONS OR FOR OTHER CAUSES.
  - 5.2. SEED APPLICATION: SEEDS SHALL BE UNIFORMLY DISTRIBUTED WITH THE ENGINEER'S ASSISTANCE WITH A STANDARD GRASS SEEDER. THE METHOD MAY ALSO BE REQUIRED FOR CERTAIN SMALL SEEDS.
  - 5.3. MIXED SEEDS: MIXED SEEDS SHALL BE PLACED IN THE SEEDER AND THE FERTILIZER COMPARTMENT. BOTH MAY BE APPLIED DURING ONE (1) OPERATION. FERTILIZER MAY BE DRILLED INTO THE SOIL OR APPLIED BY SPREADER. BROADCASTING FERTILIZERS IS PERMISSIBLE ON ROUGH, ROCKY SLOPES WHERE DRILLS CANNOT OPERATE.
  - 5.4. ALL DRILLS SHALL BE FULLY ADJUSTABLE SO THAT THEY WILL DELIVER THE SEEDS AND FERTILIZER AT THE RATES SPECIFIED ON THE PLANS OR ORDERED BY THE ENGINEER. DRILLS THAT ARE IN REPAIR OR THAT DO NOT DELIVER THE SEEDS AND FERTILIZER AT THE RATES SPECIFIED ON THE PLANS OR ORDERED BY THE DRILLS SHALL BE ADJUSTABLE SO THAT THE SEEDS CAN BE PLANTED AND COVERED A MAXIMUM DEPTH OF 1/2 INCH.
  - 5.5. MOST OF THE SEEDS SHOULD BE DRILLED ABOUT ONE-HALF (1/2) INCH DEEP IN A OPERATIONS START ON AN AREA THAT AREA SHALL BE COMPLETED AS SOON AS POSSIBLE. NO SEEDING SHALL BE DONE DURING WINDY WEATHER OR WHEN THE COVERED. USING A FLEXIBLE TOOTHED WEDDER OR OTHER SUITABLE EQUIPMENT AS SOON AS THIS COVERING OPERATION HAS BEEN COMPLETED, THE CULTIVATOR SHALL BE RUN OVER THE AREA ONLY ONCE PARALLEL WITH THE CONTOURS OF THE GROUND.
  - 5.6. MULCHING
    - 6.1. MULCHING MAY BE DONE BY HAND OR SHALL BE THE REQUIRED MULCHING MATERIAL FOR PERMANENT SEEDING, UNLESS SPECIFIED OTHERWISE ON THE PLANS OR DIRECTED BY THE ENGINEER. THE MULCH SHALL NOT CONTAIN ANY GRADE FRACTION MAY, SEDAN GRASS MAY OR BROOM SEDGE OR ANY OTHER TYPE OF NATIVE GRASS OR GRASS STRAW SHALL BE 8 INCHES MINIMUM, 50% SHALL BE 10 INCHES IN LENGTH OR LONGER.
    - 6.2. AFTER SEEDING OPERATIONS ARE COMPLETE, THE MULCH SHALL BE SPACED UNIFORMLY BY HAND, MANURE SPREADER, OR OTHER SUITABLE EQUIPMENT. THE MULCH SHALL BE APPLIED TO THE GROUND 2 INCHES OR MORE TO FORM A DISK HARROW SET TO CUT SLOTTILY, OR OTHER SUITABLE EQUIPMENT WHICH WILL SECURE THE MULCH FIRMLY INTO THE GROUND. BETWEEN DISKS SHALL NOT EXCEED 4 INCHES. APPLY MULCH AT THE RATE OF 2 TONS PER ACRE OR 90 LBS. PER 1000 SQ. FT.
  - 6.3. APPLYING WOOD CELLULOSE FIBER MULCH: WOOD CELLULOSE FIBER MULCH HYDRO SEEDER AND THE METHOD IS APPROVED BY THE ENGINEER. WOOD CELLULOSE FIBER MULCH SHALL BE APPLIED AT THE MINIMUM RATE OF 2500 POUNDS PER ACRE, UNLESS SPECIFIED OTHERWISE.
  7. WATERING
    - 7.1. THE CONTRACTOR SHALL WATER THE SEEDED AREAS AS REQUIRED TO ASSURE AN ACCEPTABLE STAND OF GRASS.
  8. PROTECTION AND MAINTENANCE
    - 8.1. THE GRASSED AREA SHALL BE PROTECTED AGAINST TRAFFIC OR OTHER USE OR THE PROPER CARE OF THE GRASSED AREA UNTIL ALL WORK ON THE ENTIRE CONTRACT HAS BEEN COMPLETED AND ACCEPTED, OR A MINIMUM PERIOD OF 30 DAYS FROM THE DATE OF SEEDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELIEVED FROM WATERING GRASSSED AREAS ACCEPTED BY THE ENGINEER AND THE OWNER.
  9. PAYMENT
    - 9.1. ALL SEEDING OPERATIONS THROUGHOUT THE ENTIRE COURSE OF THE PROJECT DESCRIBED ON THE SEEDING SHEETS, SHALL BE PAID FOR AS THE BID ITEM AND ANY ASSOCIATED WORK NECESSARY.

**TEMPORARY SEEDING**

TEMPORARY SEEDING NOTES

1. TEMPORARY SEEDING SHALL BE INSTALLED AS TEMPORARY COVER AFTER GRADING AND/OR CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED IN AN AREA OF THE PROJECT. TEMPORARY SEED SHALL BE INSTALLED WHEN CONSTRUCTION ACTIVITY WILL CEASE FOR AT LEAST 20 DAYS OR WITHIN 21 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA, OR
- 1.2. WHEN PERMANENT SEEDING CANNOT TAKE PLACE WITHIN THE SPECIFIED PLANTING WINDOW.
2. TEMPORARY SEEDING SHALL BE PLACED VIA APPROPRIATE SEED DRILL. THE TEMPORARY SEED MIX IS AS FOLLOWS:
  - ANNUAL RYE 20% ACRE
3. TEMPORARY SEED MAY BE PLACED ANY TIME DURING CONSTRUCTION.
4. PROTECT SEEDED AREAS FROM EROSION BY SPREADING WOOD CHIPS OR STRAW MULCH TO FORM A CONTINUOUS BLANKET 1/2" TO 1" THICK TO PROTECT SEEDS FROM WIND AND TO PREVENT SOIL LOSS.
5. DO NOT SEED OR WORK SOIL WHEN THERE IS STANDING OR RUNNING WATER PRESENT IN DISTURBED AREAS.
6. SEEDING PROCESS: REFER TO SEEDING NOTES.

**TESTING REQUIREMENTS FOR THIS PROJECT**

- TV / MANDEL TESTING
- ART TESTING (PIPE)
- VACUUM TESTING (MANHOLES)



**GARVER**  
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**CITY OF WICHITA**  
1905 Midfield Road  
Wichita, KS 67209  
(316) 264-8008

REV.	DATE	DESCRIPTION



**MCHTA**  
1905 Midfield Road  
Wichita, KS 67209  
(316) 264-8008

**CITY OF WICHITA**  
SANITARY SEWER  
FGASUS ADDITION

**SEEDING & TESTING NOTES**

JOB NO.: 2400521  
DATE: AUGUST 2024  
DESIGNED BY: .  
DRAWN BY: .

DATE: 08/01/2024  
DRAWN BY: .  
DRAWING NUMBER

SHEET NUMBER **29** OF **36**

RECORD DRAWINGS  
Client: City of Wichita  
Contractor: Newak  
Subcontractor: Dave Starcek  
Inspector: Russel  
Creation Firm: Garver  
PDF BY: RDG 04/22/25