

SANITARY SEWER IMPROVEMENTS

to serve

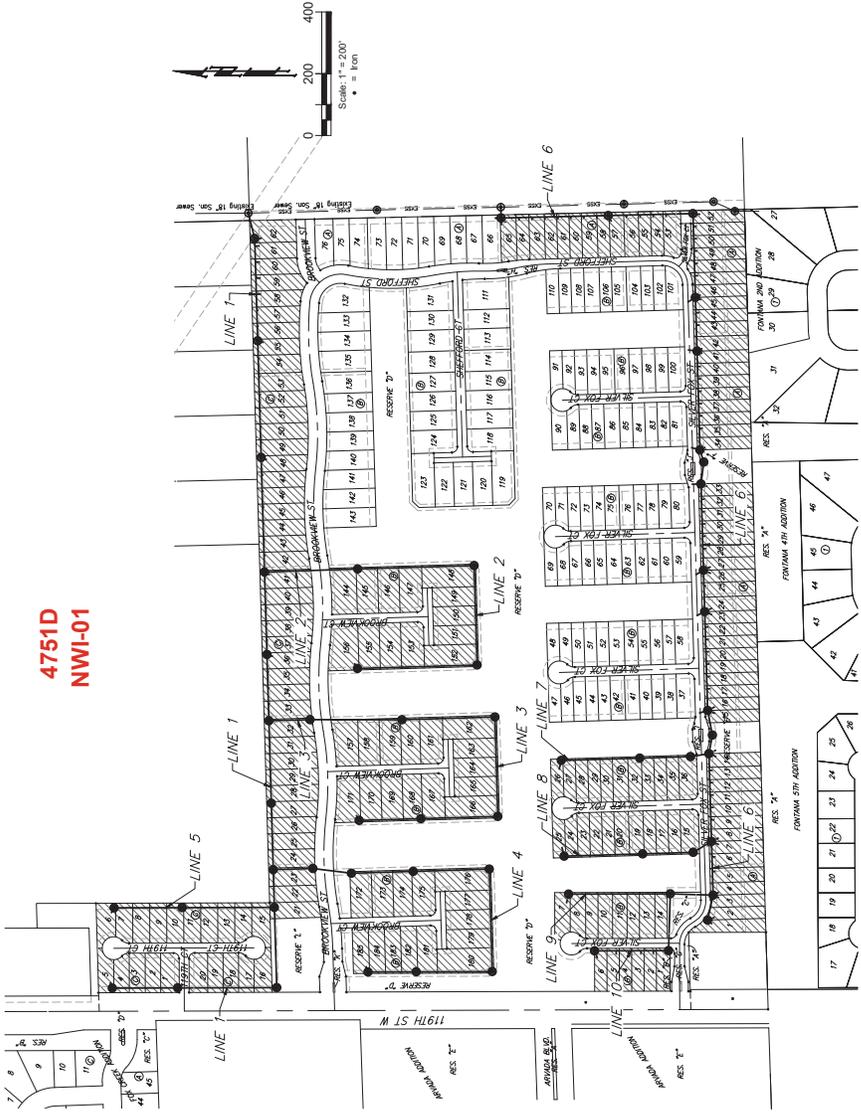
CRANOR ADDITION - PHASE I

CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E., City Engineer
 Project Number: 468-2023-026684
 Org Code: 47270023 Munis #E3135

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
 Cox Communications 262-4270
 Kansas Gas Service 1-888-462-4850
 Black Hills Energy 1-800-303-0357
 AT&T Wichita Water Dept. 269-2245
 City of Wichita Sewer Maint. 269-4024
 City of Wichita Storm Sewer Maint. 269-4030
 City of Wichita Traffic Maint. 269-4634
- Utility service lines, pipes, valve boxes, meters, and manholes shall be located and marked prior to construction unless the plans specifically call for their relocation. The contractor shall be responsible for their own liability to locate and mark utilities. Existing utilities and their location, as shown on these plans, shall be maintained and protected during construction. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- Excavation shall be made in accordance with the plans and specifications. The Contractor shall be responsible for the removal of miscellaneous structures and debris from the site. The Contractor shall be responsible for the removal of any structures or debris which are not in direct conflict with proposed construction. The Contractor shall be responsible for the removal of any structures or debris which are not in direct conflict with proposed construction. The Contractor shall be responsible for the removal of any structures or debris which are not in direct conflict with proposed construction.
- Trees and shrubs in public right-of-way which are in direct conflict with proposed construction shall be removed by the Contractor. The Contractor shall be responsible for the removal of any trees and shrubs which are not in direct conflict with proposed construction. The Contractor shall be responsible for the removal of any trees and shrubs which are not in direct conflict with proposed construction.
- The Contractor shall give all property owners and/or tenants of affected property a minimum of ten (10) days notice prior to start of construction.
- The Contractor shall be responsible for providing property lines which are damaged or destroyed by the contractor. The Contractor shall be responsible for providing property lines which are damaged or destroyed by the contractor. The Contractor shall be responsible for providing property lines which are damaged or destroyed by the contractor.
- All existing and proposed erosion control measures including silt fencing, erosion control mat, straw bales, sheet piling, and other measures shall be installed throughout the project. The Contractor shall be responsible for the installation and maintenance of all erosion control measures. The Contractor shall be responsible for the installation and maintenance of all erosion control measures.
- All excess excavation shall remain on-site and shall be stockpiled or spread at a location determined by the engineer. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed construction shall not interfere with the flow of sewage through existing sewer lines. The Contractor shall be responsible for the installation and maintenance of all erosion control measures.
- Soil was disturbed by construction are to be seeded as follows:
 Seeded --- 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".
- Construction Phasing --- Stormwater Drain Project for this project shall be completed within 12 months. The Contractor shall coordinate the phasing of construction with the City of Wichita. The Contractor shall be responsible for the installation and maintenance of all erosion control measures.
- The schedule for this project is: Prefabrication Builders, L.L.C. 443 W. Main Rd., Wichita, KS 67212 316-739-1900 Scot@prefabricbuilders.com



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NWI-01

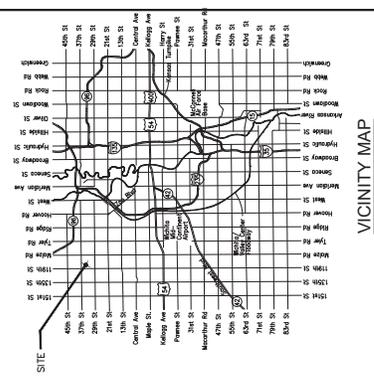
SHEET INDEX

1	Title Sheet
2-5	Line 1
6-7	Line 2
8-9	Line 3
10-11	Line 4
12	Line 5
13-16	Line 6
17	Line 7
18	Line 8
19	Line 9
20	Line 10
21	Erosion Control BMP Details
22-26	Precast Manhole Detail
27	Frame & Cover Detail
28	Vertical Riser Detail
29	Coordinate Sheet
30	Copy of Plot
31-35	

BENCHMARKS

Square cut top of the south end of the RCOP 1425±
 Elevation = 547.1±
 SW Cor. NW1/4, Sec. 31,
 Twp. 26-S, R-1-W
 Elev. = 1358.12 MAMDB8

*± cut top of the east end of RCOC, 589.6± north and 24.6± east of the SW Cor. NW1/4, Sec. 31, Twp. 26-S, R-1-W
 Elev. = 1359.71 MAMDB8



Sep. 13, 2024



BAUGHMAN COMPANY
 315 E 15th St., Wichita, KS 67211 316-262-2711
 BaughmanCo.com

BENEFIT DISTRICT



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

Sanitary Sewer Riser Table

Project Name: WDS_SS to serve Cranor Addition
Project Location: South of 37th Street North, east of 119th Street West
Project No: 468-2023-026684
MUNIS No: E3135/47270023
Contractor: McCullough Excavation, Inc.
Inspector: Daniel Swinger

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Distance from		Comment
				Upstream MH	Downstream MH	
1	1	00+85.00	13' Lt.	331'	84'	at MH, Sta 0+85.0
2	1	01+09.20	16' Lt.	304'	22'	
3	1	01+61.20	16' Lt.	252'	74'	
4	1	02+13.20	16' Lt.	200'	126'	
5	1	02+65.20	6' Lt.	148'	178'	
6	1	03+17.20	6' Lt.	96'	230'	
7	1	03+69.20	6' Lt.	44'	282'	
8	1	04+16.20	10' Lt.	371'	4'	At MH, Sta 4+16.2
9	1	04+73.20	6' Lt.	318'	54'	
10	1	05+32.20	6' Lt.	259'	113'	
11	1	05+91.20	6' Lt.	200'	172'	
12	1	06+43.20	6' Lt.	148'	224'	
13	1	06+95.20	6' Lt.	96'	276'	
14	1	07+47.20	6' Lt.	44'	328'	
15	1	07+94.20	9' Lt.	364'	4'	At MH, Sta 7+94.2
16	1	08+15.20	6' Lt.	311'	54'	
17	1	09+03.20	6' Lt.	259'	106'	
18	1	09+55.20	6' Lt.	207'	158'	
19	1	10+07.20	6' Lt.	155'	210'	
20	1	10+59.20	6' Lt.	103'	262'	
21	1	11+11.20	6' Lt.	51'	314'	
22	1	11+65.20	9' Lt.	258'	5'	At MH, Sta 11+65.2
23	1	12+29.20	6' Lt.	200'	61'	
24	1	12+81.20	6' Lt.	148'	113'	
25	1	13+33.20	6' Lt.	96'	165'	
26	1	13+85.20	6' Lt.	44'	217'	
27	1	14+32.20	8' Lt.	208'	3'	At MH, Sta 14+32.2
28	1	14+89.20	6' Lt.	155'	54'	
29	1	15+41.20	6' Lt.	103'	106'	
30	1	15+93.20	6' Lt.	51'	158'	
31	1	30+43.50	9' Rt.	N/A	4'	
32	2	13+87.60	8' Rt.	N/A	3'	At MH, Sta 30+43.5
33	3	15+02.50	8' Rt.	N/A	3'	At MH, Sta 13+87.6
34	4	14+33.80	8' Rt.	N/A	3'	At MH, Sta 15+02.5
35	5	05+18.40	9' Lt.	N/A	3'	At MH, Sta 14+33.8
36	6	00+35.00	11' Rt.	334'	7'	At MH, Sta 5+18.4
37	6	00+91.00	11' Rt.	288'	53'	At MH, Sta 0+35.0



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Project Location: South of 37th Street North, east of 119th Street West
Project No: 468-2023-026684
MUNIS No: E3135/47270023
Contractor: McCullough Excavation, Inc.
Inspector: Daniel Swinger

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Distance from		Comment
				Upstream MH	Downstream MH	
38	6	01+33.00	11' Rt.	257'	94'	
39	6	01+83.00	11' Rt.	197'	144'	
40	6	02+23.00	11' Rt.	156'	185'	
41	6	02+63.00	11' Rt.	116'	225'	
42	6	03+03.00	11' Rt.	76'	265'	
43	6	03+53.00	11' Rt.	26'	315'	
44	6	03+81.90	11' Rt.	266'	4'	At MH, Sta 3+81.9
45	6	04+41.00	11' Rt.	212'	56'	
46	6	04+85.00	11' Rt.	168'	100'	
47	6	05+27.00	11' Rt.	126'	142'	
48	6	05+69.00	11' Rt.	84'	184'	
49	6	06+55.90	13' Lt.	266'	N/A	At MH, Sta 6+55.9
50	6	06+97.30	12' Lt.	227'	38'	
51	6	07+37.30	12' Lt.	187'	78'	
52	6	07+77.30	12' Lt.	147'	118'	
53	6	08+17.30	12' Lt.	107'	158'	
54	6	08+57.30	12' Lt.	67'	198'	
55	6	09+27.30	13' Lt.	3'	262'	At MH, Sta 9+27.3
56	6	09+27.30	13' Lt.	165'	3'	
57	6	09+77.30	12' Lt.	121'	47'	
58	6	10+17.30	12' Lt.	81'	87'	
59	6	11+01.30	13' Lt.	3'	165'	At MH, Sta 11+01.3
60	6	11+01.30	13' Lt.	311'	3'	At MH, Sta 11+01.3
61	6	11+51.30	12' Lt.	267'	47'	
62	6	11+91.30	12' Lt.	227'	87'	
63	6	12+31.00	12' Lt.	187'	127'	
64	6	12+71.30	12' Lt.	147'	167'	
65	6	13+11.30	12' Lt.	107'	207'	
66	6	13+51.30	12' Lt.	67'	247'	
67	6	14+21.30	12' Lt.	2'	312'	At MH, Sta 14+21.3
68	6	15+33.70	14' Lt.	271'	3'	At MH, Sta 15+33.7
69	6	15+83.70	12' Lt.	227'	47'	
70	6	16+23.70	12' Lt.	187'	87'	
71	6	16+63.70	12' Lt.	147'	127'	
72	6	17+03.70	12' Lt.	107'	167'	
73	6	17+43.70	12' Lt.	67'	207'	
74	6	18+13.70	13' Lt.	2'	272'	At MH, Sta 18+13.7



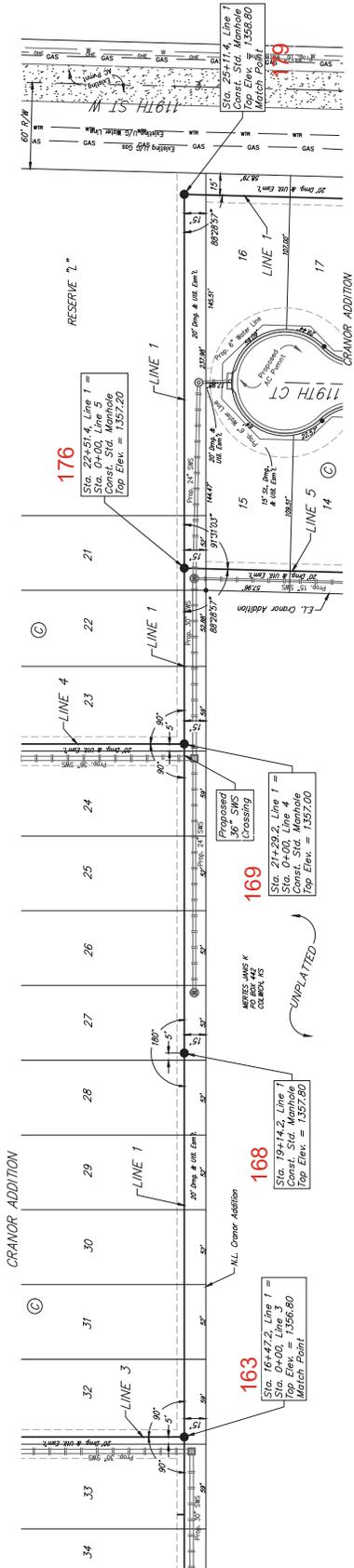
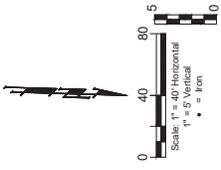
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Sanitary Sewer Riser Table

Project Name: WDS_SS to serve Cranor Addition
Project Location: South of 37th Street North, east of 119th Street West
Project No: 468-2023-026684
MUNIS No: E3135/47270023
Contractor: McCullough Excavation, Inc.
Inspector: Daniel Swinger

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Distance from		Comment
				Upstream MH	Downstream MH	
75	6	18+13.70	12' Lt.	126'	3'	At MH, Sta 18+13.7
76	6	18+63.70	12' Lt.	82'	47'	
77	6	19+47.70	13' Lt.	3'	126'	At MH, Sta 19+47.7
78	6	19+47.70	13' Lt.	311'	3'	At MH, Sta 19+47.7
79	6	19+97.70	12' Lt.	267'	47'	
80	6	20+37.70	13' Lt.	227'	87'	
81	6	20+77.70	13' Lt.	187'	127'	
82	6	21+17.70	13' Lt.	147'	167'	
83	6	21+57.70	12' Lt.	107'	207'	
84	6	21+97.70	12' Lt.	67'	247'	
85	6	22+67.70	12' Lt.	2'	312'	At MH, Sta 22+67.7
86	6	22+67.70	11' Lt.	70'	6'	At MH, Sta 22+67.7
87	6	24+10.10	12' Lt.	276'	3'	At MH, Sta 24+10.1
88	6	24+64.40	12' Lt.	227'	51'	
89	6	25+04.40	12' Lt.	187'	91'	
90	6	25+44.40	12' Lt.	147'	131'	
91	6	25+84.40	12' Lt.	107'	171'	
92	6	26+24.40	13' Lt.	67'	211'	
93	6	26+94.40	13' Lt.	3'	276'	At MH, Sta 26+94.4
94	6	26+94.40	12' Lt.	165'	3'	At MH, Sta 26+94.4
95	6	27+44.40	12' Lt.	121'	47'	
96	6	27+94.40	12' Lt.	74'	94'	
97	6	28+68.40	13' Lt.	3'	165'	At MH, Sta 28+68.4
98	6	28+68.40	14' Lt.	75'	1'	At MH, Sta 28+68.4
99	6	29+51.00	15' Lt.	6'	70'	At MH, Sta 29+51.0
100	6	29+51.00	10' Lt.	2'	N/A	At MH, Sta 29+51.0
101	7	04+78.50	16' Lt.	1'	N/A	At MH, Sta 4+78.5
102	8	04+86.70	16' Rt.	2'	N/A	At MH, Sta 4+86.7
103	9	04+67.60	15' Lt.	2'	N/A	At MH, Sta 4+67.6
104	10	01+84.00	12' Lt.	2'	231'	
105	10	02+33.60	12' Lt.	47'	187'	
106	10	02+73.60	12' Lt.	87'	147'	
107	10	03+13.60	11' Lt.	127'	107'	
108	10	03+53.60	11' Lt.	167'	67'	
109	10	04+23.60	12' Lt.	231'	2'	At MH, Sta 4+23.6

BENCHMARKS:
 + = cut top of the east end of
 end of the east RCP 114.5±
 north end 34.7± east of the
 SW Cor. NW/4, Sec. 31,
 Twp. 28-S, R-1-W, M.
 Elev. = 1358.12 NAVD88
 * = cut top of the east end of
 R2BC, 588.0±, north and 24.6±
 east of the east end of the
 Sec. 31, Twp. 28-S, R-1-W,
 Elev. = 1359.71 NAVD88



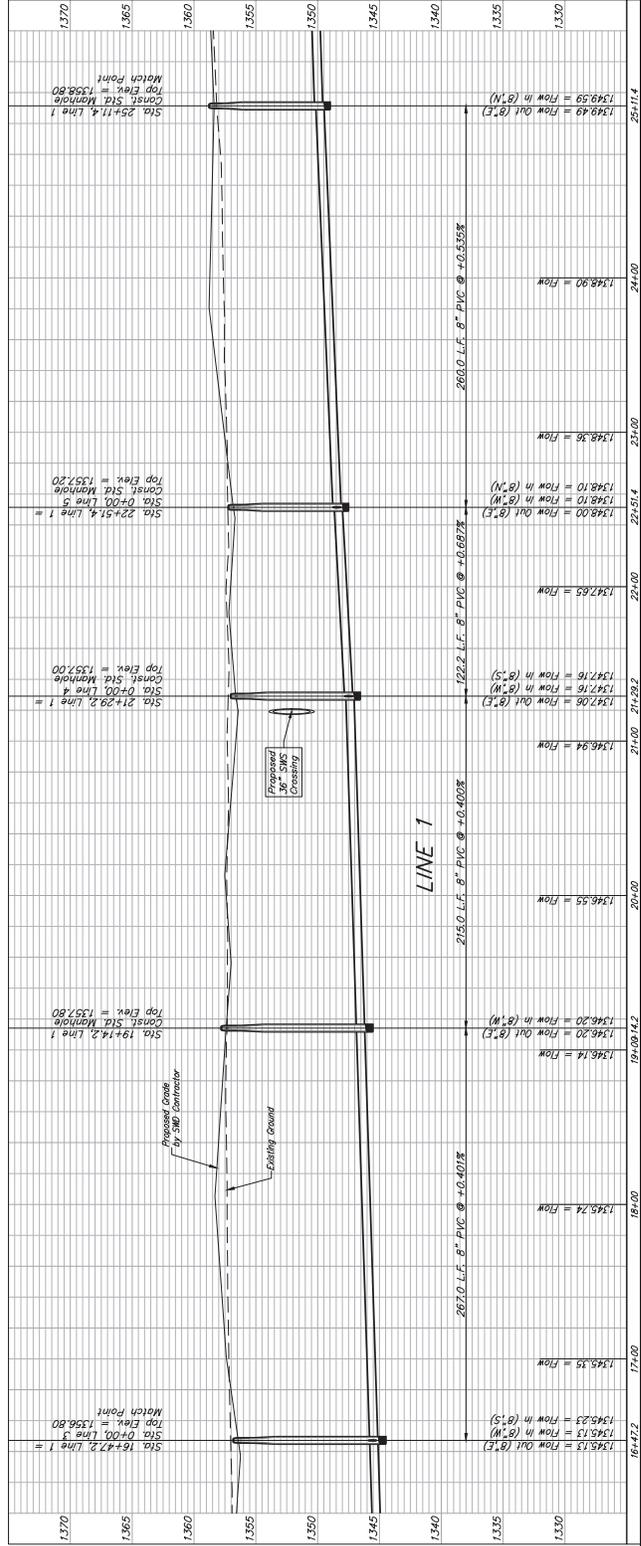
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CRANOR ADDITION
 PHASE 1

LINE 1

SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER

DESIGN DWG. CRANOR_AJK

DATE: Sep. 13, 2024

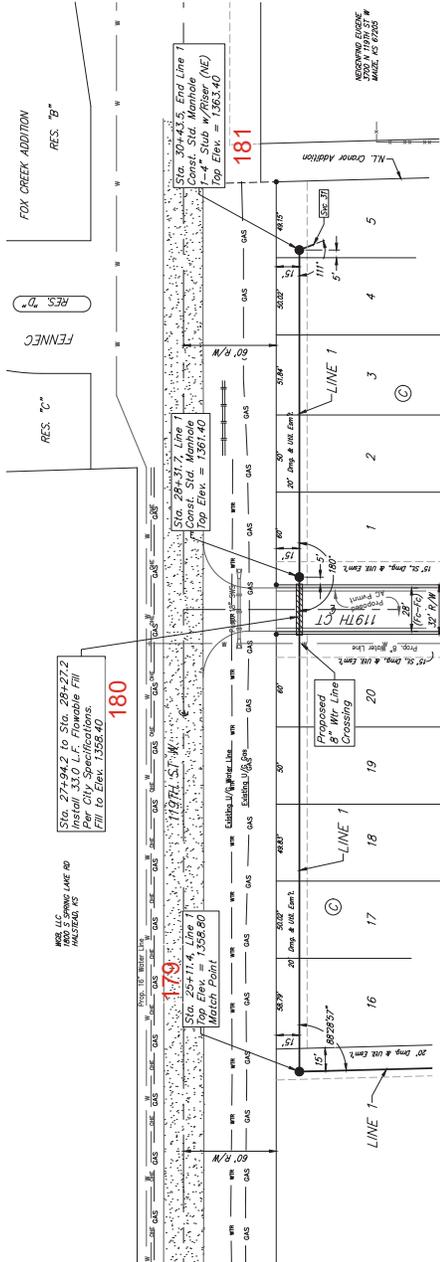
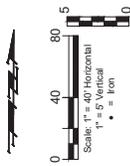
SHEET **4** OF **35**

BENCHMARKS:
 of the south
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 north and 34.7± east of the
 SW Cor., NW/4, Sec. 31,
 Twp. 28-S, R-1-W, M.
 Elev. = 1358.12 NAVD88
 "±" cut top of the east end of
 RCB, 586.0±, north and 24.6±
 east of the SW Cor., NW/4,
 Sec. 31, Twp. 28-S, R-1-W,
 Elev. = 1359.71 NAVD88

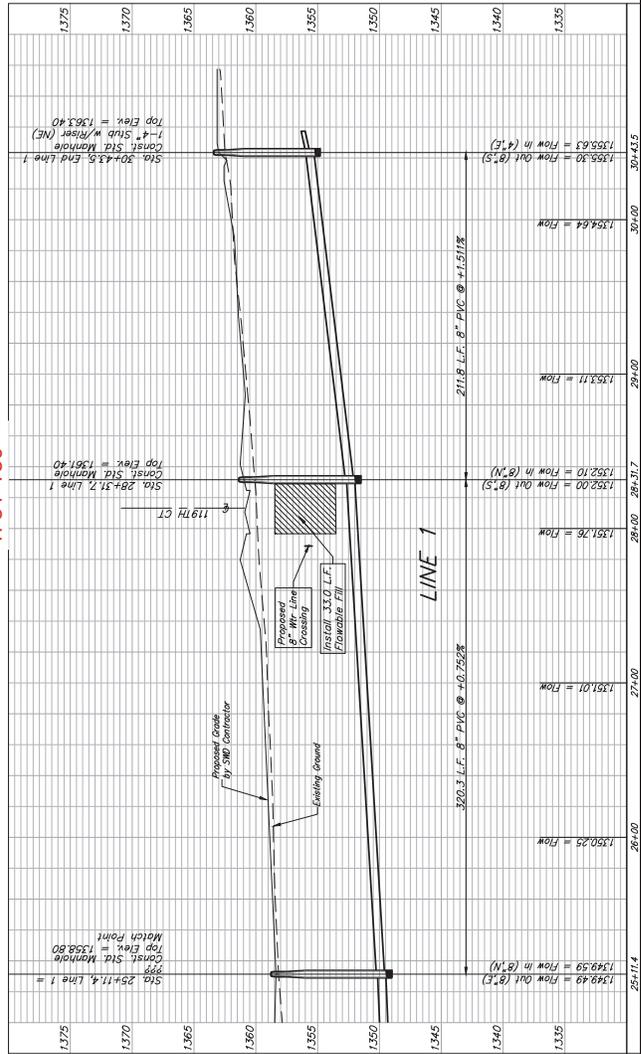
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION	FOR INFORMATION ONLY		
			STATION/	APPROXIMATE LENGTH	ACT. PIPE
LOT	BLK/PT	LINE	NO.	DIRECTION	DIAMETER
37	4" S.W.	C-1	30+43.5/RL	6.2'	10"

NOTE: Vertical riser pipe shall be extended to 2' minimum above ground water elevation and 4' minimum below proposed ground elevation.



4751-179
 4751-180
 4751-181



4751-179
 4751-180
 4751-181

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CRANOR ADDITION
 PHASE 1

LINE 1

SANITARY SEWER
 IMPROVEMENTS

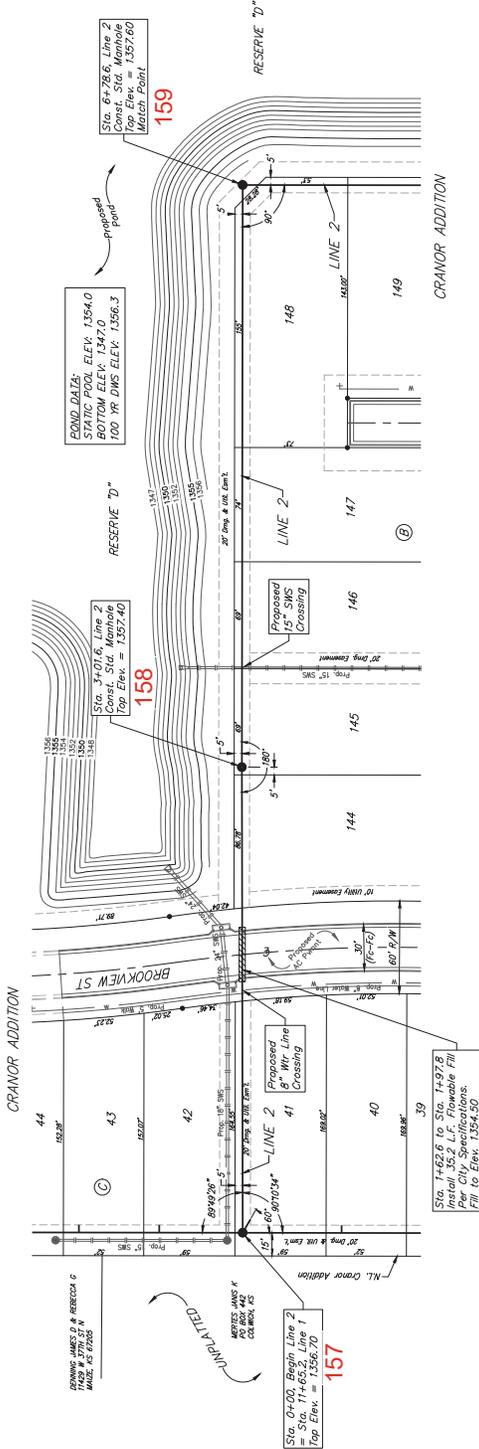
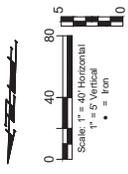
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DESIGN: DMV, DRAWN: JAK

DATE: Sep. 13, 2024

SHEET **5** OF **35**

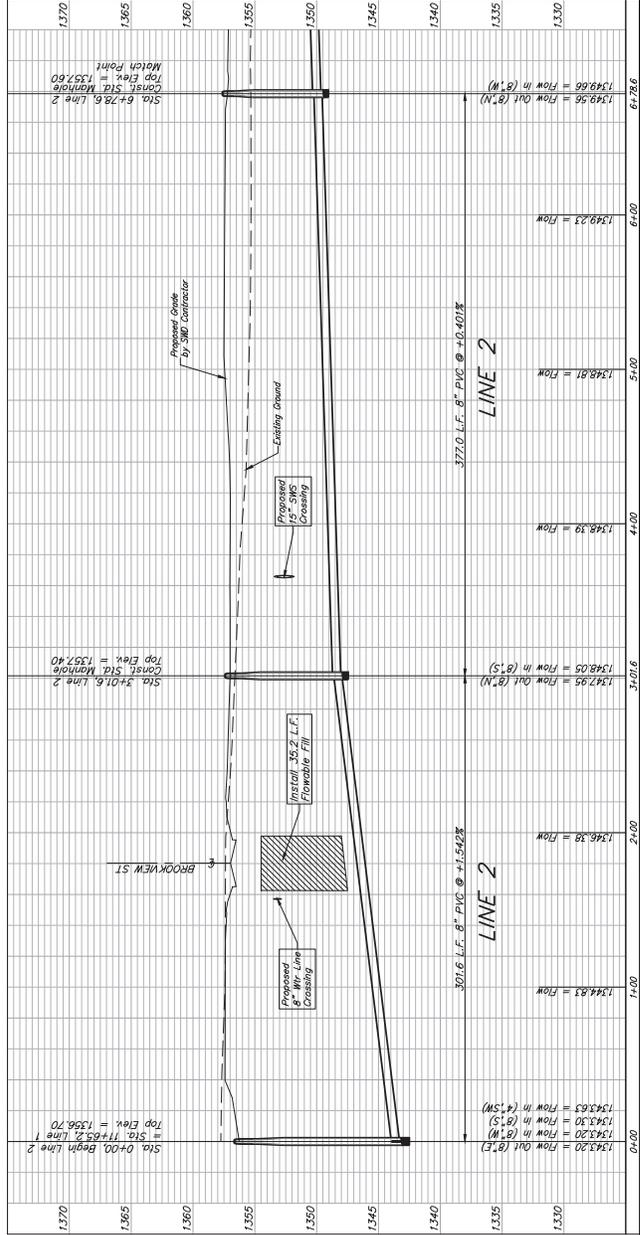
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 + = cut top of the east end of
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 north end 34.7± east of the
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 Twp. 28-S, R-1-W, M.
 Elev. = 1356.12 NAD88
 * = cut top of the east end of
 RCB, 288.6± north and 24.6±
 east of the east end of the
 SW Cor., NW/4, Sec. 31,
 Twp. 28-S, R-1-W, M.
 Elev. = 1356.71 NAD88



4751-157

4751-158

4751-159



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CRANOR ADDITION
PHASE 1

LINE 2

SANITARY SEWER
IMPROVEMENTS

PROJECT NUMBER

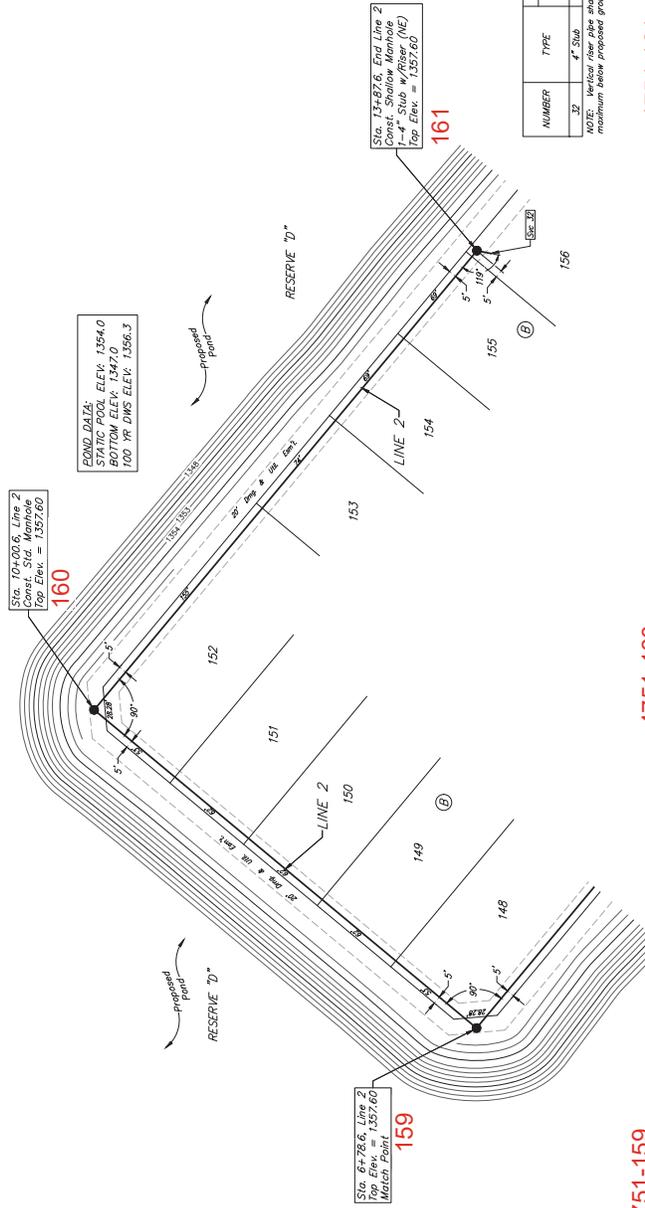
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DATE: Sep. 13, 2024

SHEET **6** OF **35**

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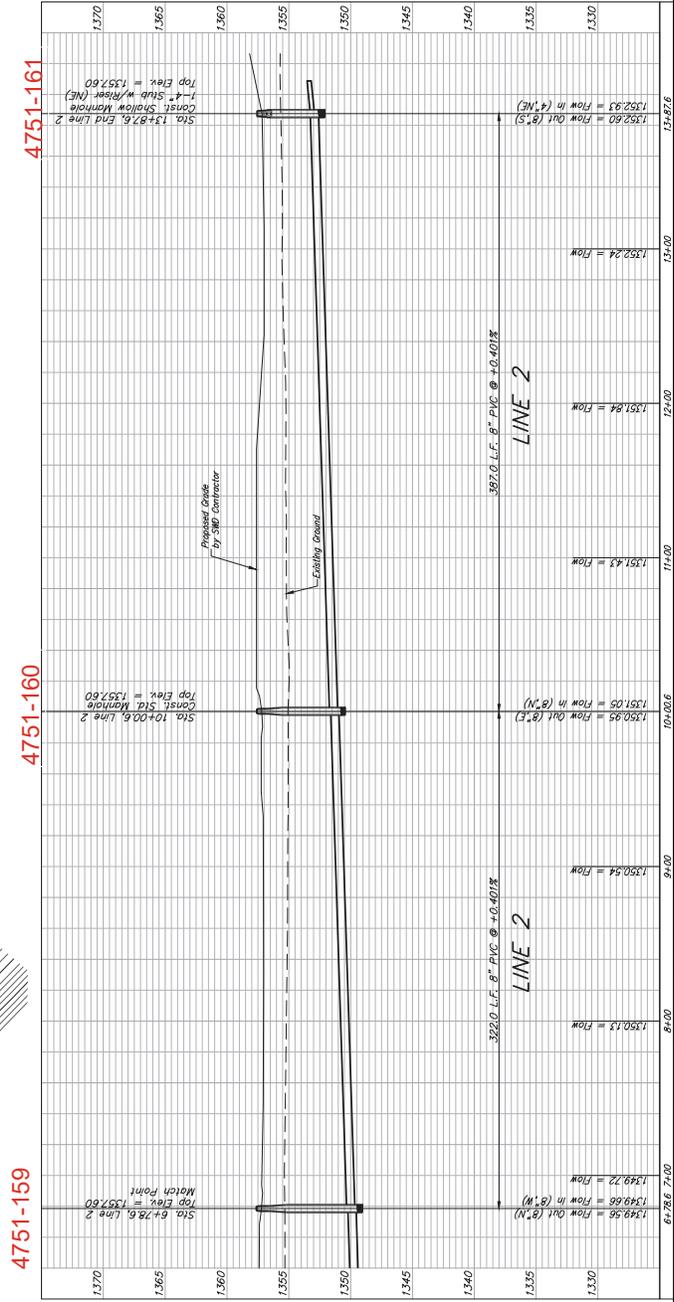
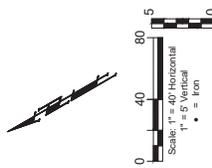
BENCHMARKS:
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 end of the east RCP 114.5±
 north end 34.7± east of the
 SW Cor. NW/4, Sec. 31,
 Twp. 28 - S, R. 1 - W,
 Elev. = 1358.12 NAVD88
 "±" cut top of the east end of
 R2BC, 288.0±, north and 24.6±
 east of the SW Cor. NW/4,
 Sec. 31, Twp. 28 - S, R. 1 - W,
 Elev. = 1359.71 NAVD88



SEWER SERVICE TABLE

NUMBER	TYPE	LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	FOR INFORMATION ONLY	
						APPROXIMATE LENGTH	4" PIPE
						VERTICAL	HORIZONTAL
152	4" S.W.P.	156	B	2	13+82.6/RL	1.4'	10'

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



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CRANFORD ADDITION
 PHASE 1

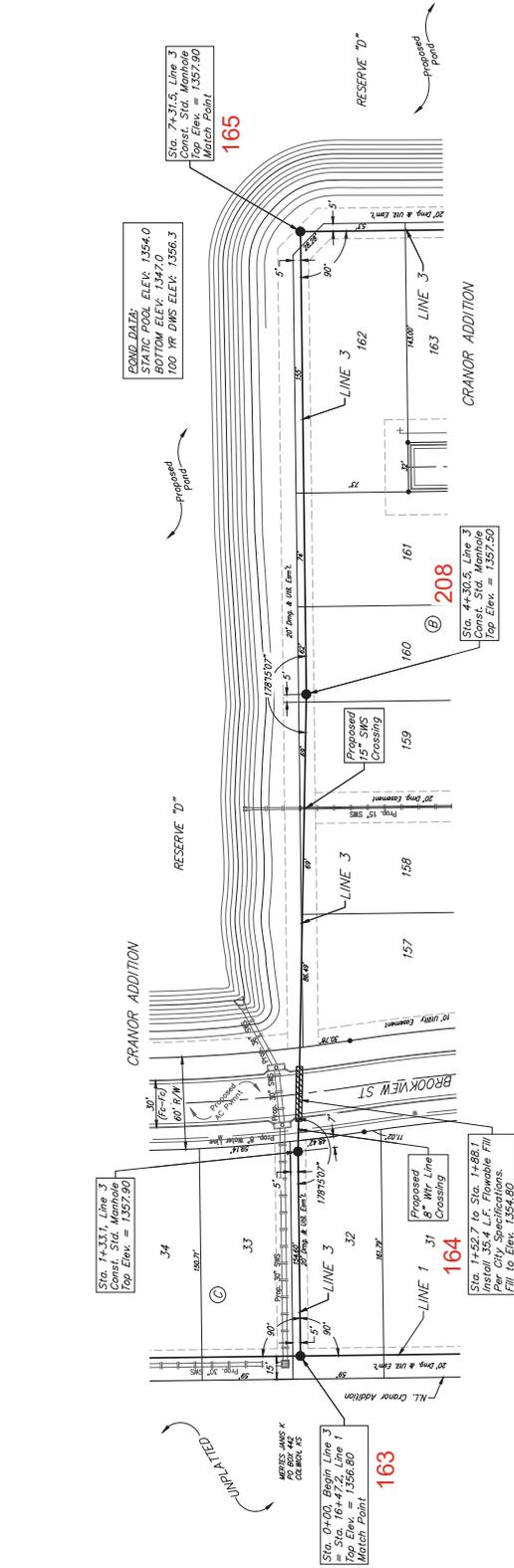
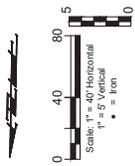
LINE 2

SANITARY SEWER IMPROVEMENTS
 PROJECT NUMBER

DESIGN DRAWING NO. JAK
 DATE: Sep. 13, 2024

SHEET **7** OF **35**

BENCHMARKS:
 * = cut top of the east end of
 end of the east RCP 174.5±
 north and 34.7± east of the
 SW Cor. NW/4, Sec. 31,
 Twp. 28-S, R-1-W, M.
 Elev. = 1358.12 NAVD88
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 RCB, 586.0± north and 24.6±
 east of the SW Cor. NW/4,
 Sec. 31, Twp. 28-S, R-1-W, M.
 Elev. = 1359.71 NAVD88

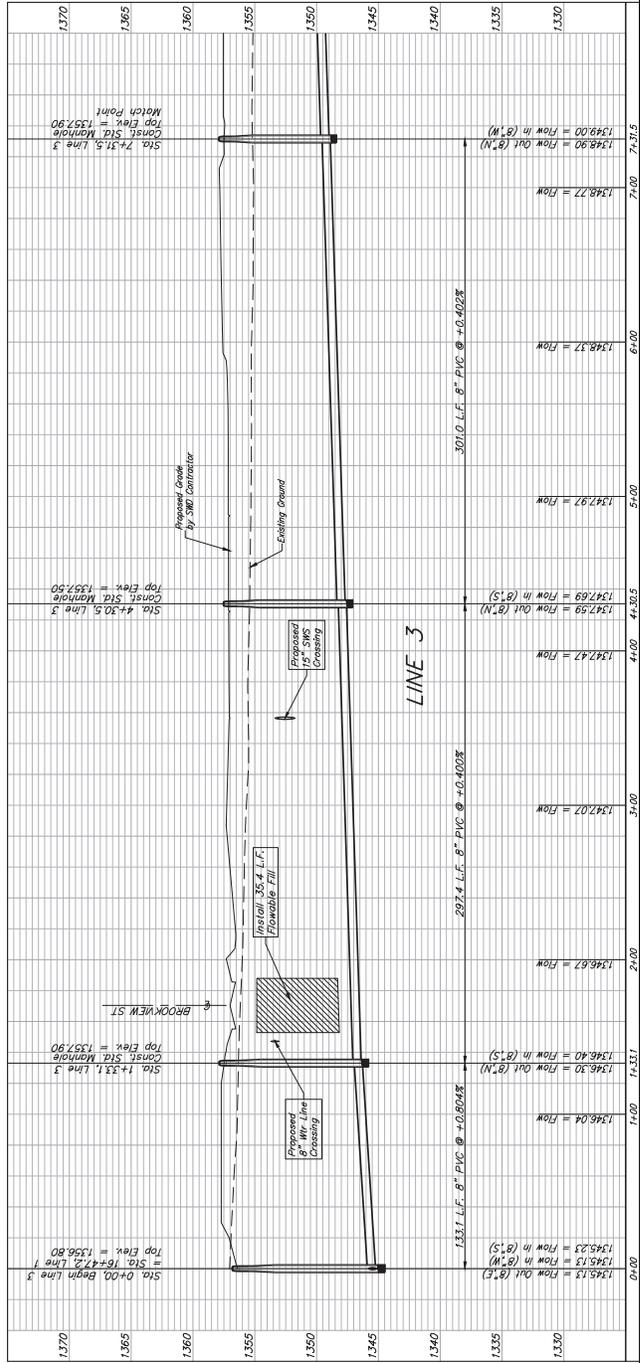


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4751-164

4751-208

4751-165





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CRANOR ADDITION
 PHASE 1

LINE 3

SANITARY SEWER
 IMPROVEMENTS

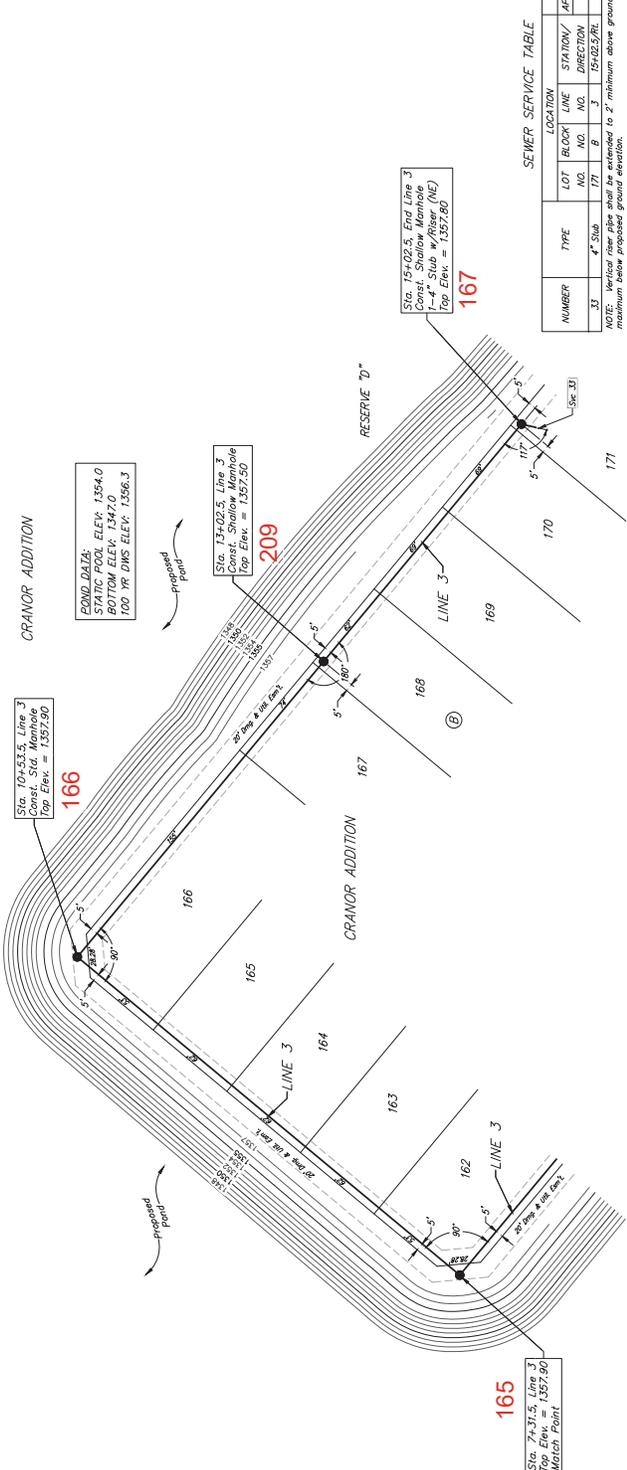
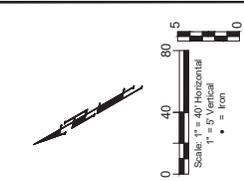
PROJECT NUMBER

DESIGN DWG. DRAWN: JAK

DATE: Sep. 13, 2024

SHEET **8** OF **35**

BENCHMARKS:
 end of the south
 end of the east RCP 174.5±
 north and 34.7± east of the
 SW Cor. NW 1/4, Sec. 31,
 Twp. 28-S, R-1-W, M-10
 Elev. = 1358.12 NAVD88
 "±" cut top of the east end of
 RCB, 288.0±, north and 24.6±
 east of the SW Cor. NW 1/4,
 Sec. 31, Twp. 28-S, R-1-W,
 Elev. = 1359.71 NAVD88



SEWER SERVICE TABLE

NUMBER	TYPE	LOT	BLOCK	LOCATION	FOR INFORMATION ONLY		
					STATION	APPROXIMATE LENGTH	PIPE
33	4" Sub	171	171	15+02.5	151.00	151.00	151.00
33	4" Sub	171	171	15+02.5	151.00	151.00	151.00

NOTE: Vertical rise pipe shall be extended to 2' minimum above ground water elevation and 4' maximum above proposed ground elevation.

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CRANOR ADDITION
 PHASE 1

LINE 3

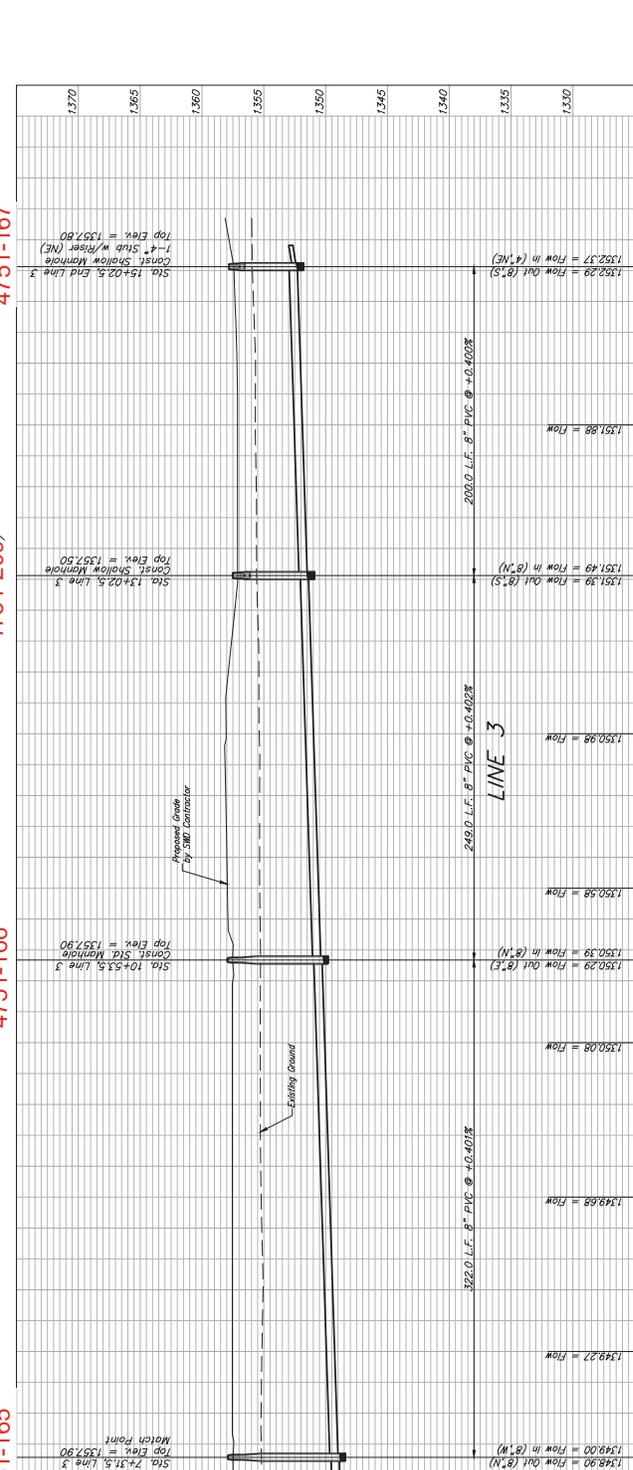
SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER

DESIGN DWG. CRANOR_AJK

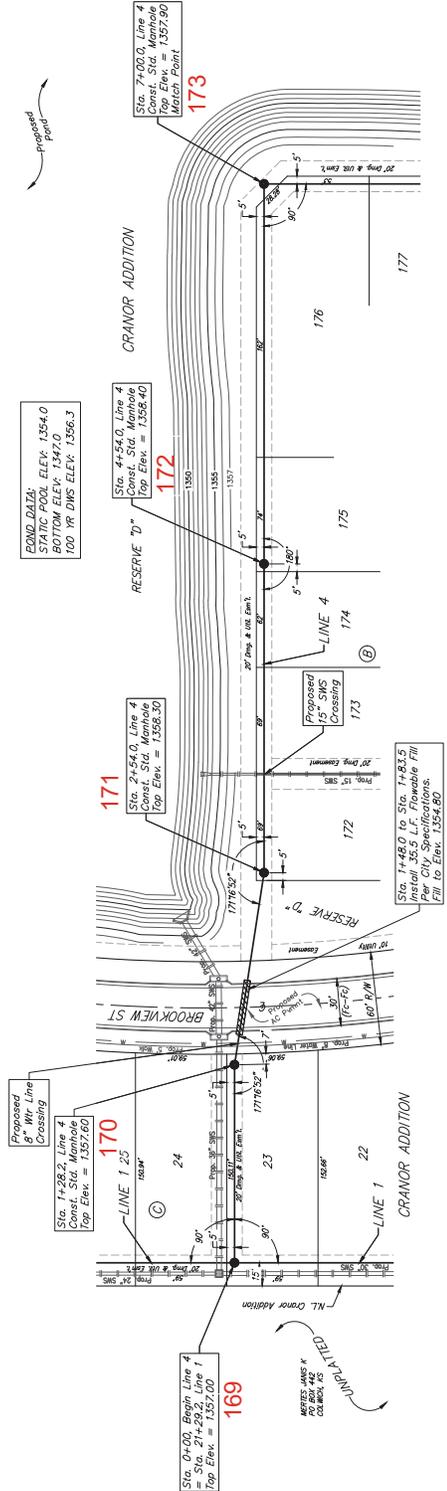
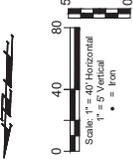
DATE: Sep. 13, 2024

SHEET: **9** OF **35**

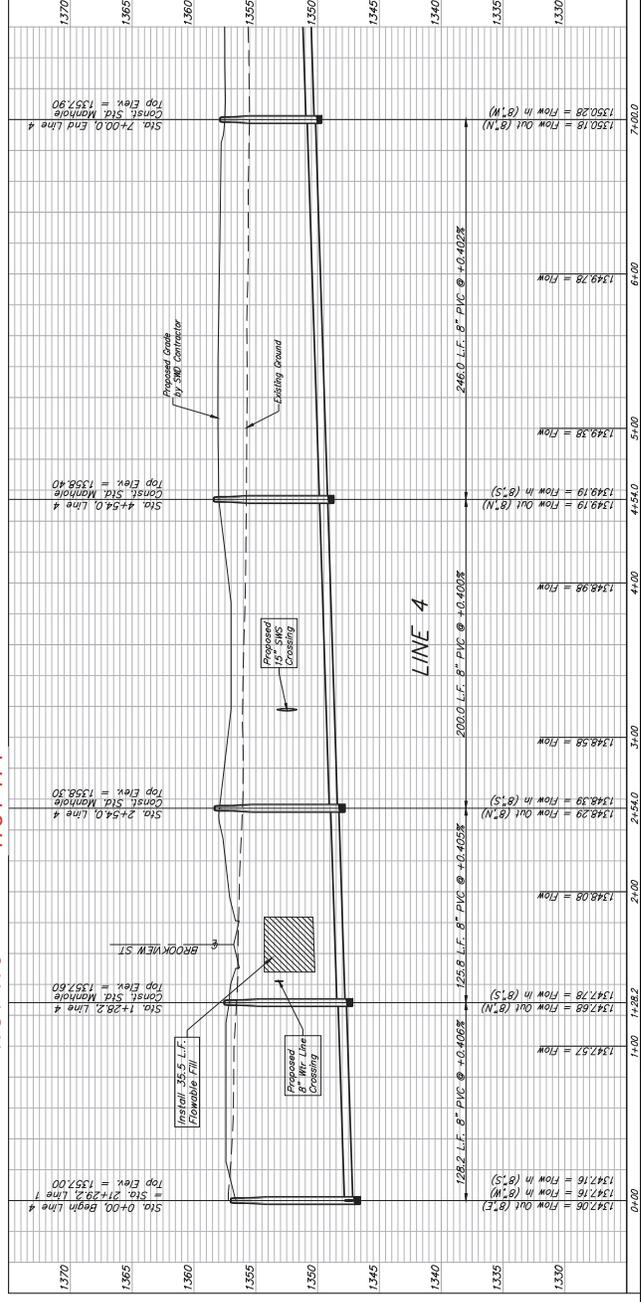


File: E:\Projects\Cranor Addition\Kelsey 11891_22-04-PT8\Engineering\Phase 1\SS 23-03-E487.dwg

BENCHMARKS:
 + = cut top of the east end of the
 end of the east RCP 174.5±
 north end 34.7± east of the
 SW Cor. NW/4, Sec. 31,
 Twp. 28-S, R-1-W, M-1-N
 Elev. = 1356.12 NAVD88
 * = cut top of the east end of
 R2BC, 586.0± north and 24.6±
 east of the east end of the
 Sec. 31, Twp. 28-S, R-1-W, M-1-N
 Elev. = 1359.71 NAVD88



4751-169 4751-170 4751-171 4751-172 4751-173



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CRANOR ADDITION
 PHASE 1

LINE 4

SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER

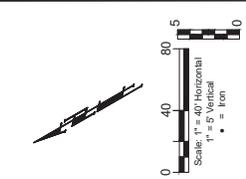
DESIGN DWG. DRAWN: JAK

DATE: Sep. 13, 2024

SHEET
 OF
10 35

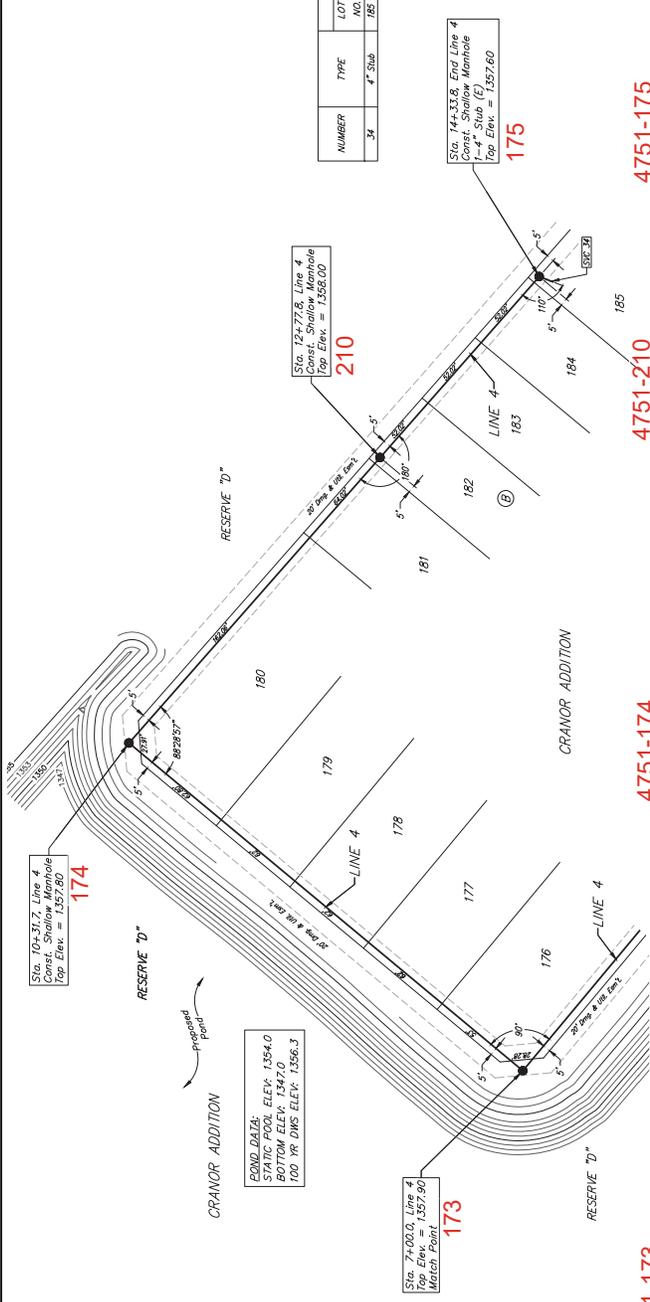
File: E:\Projects\Cranor Addition\Kelsey 11991_22-04-PT\Engineering\Phase 1\SS-23-03-E4F.dwg

BENCHMARKS:
 of the south
 end of the east RCP 174.5±
 north end 34.7± east of the
 SW Cor., NW/4, Sec. 31,
 Twp. 28°-S, R. 11°-W,
 Elev. = 1358.12 NAVD88
 "±" cut top of the east end of
 RCB, 588.0±, north and 24.6±
 east of the east end of the
 Sec. 31, Twp. 28°-S, R. 11°-W,
 Elev. = 1359.71 NAVD88



SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION	FOR INFORMATION ONLY	
			APPROXIMATE LENGTH	APPROXIMATE LENGTH
34	4" Stub	144+33.8, Line 4	HORIZONTAL	VERTICAL
			144+33.8, R/L	10'



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CRANOR ADDITION
 PHASE 1

LINE 4

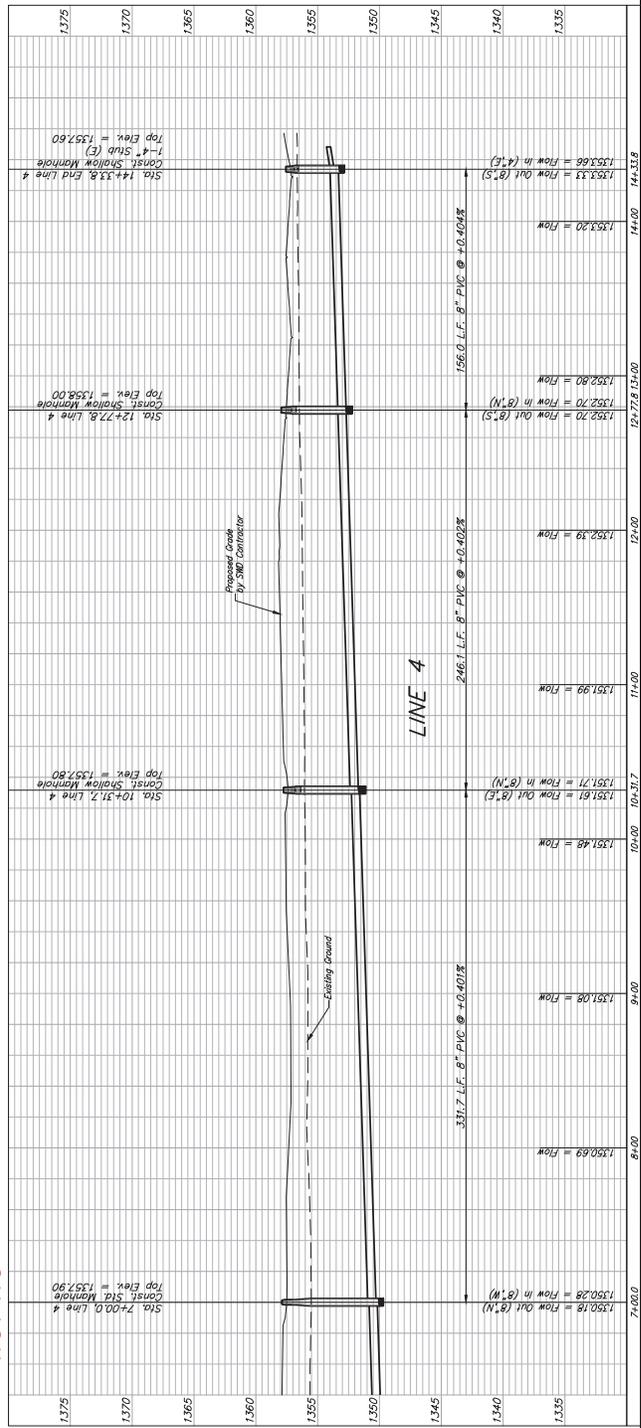
SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER

DESIGN DRAWN: JAK

DATE: Sep. 13, 2024

SHEET **11** OF **35**

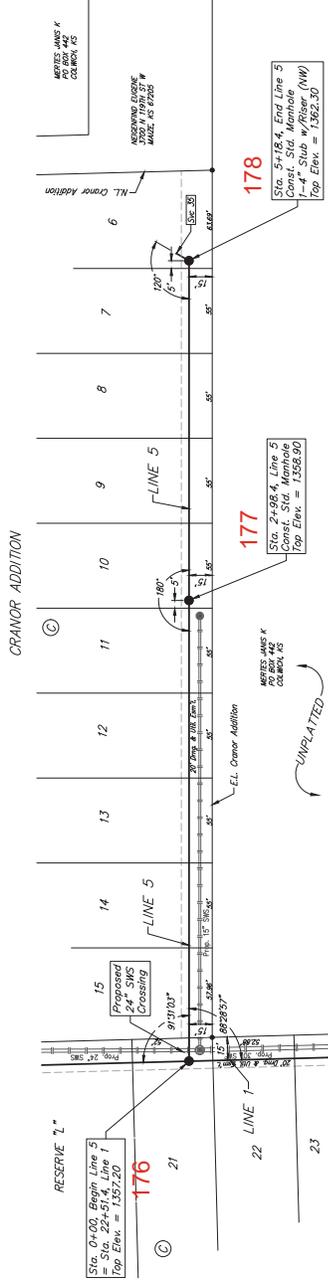
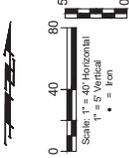


BENCHMARKS:
 + = cut top of the east end of
 north end of the east RCP 174.5±
 north end 34.7± east of the
 SW Cor., NW/4, Sec. 31,
 Twp. 28-S, R-1-W, M.
 Elev. = 1356.12 NAVD88
 * = cut top of the east end of
 R2BC, 288.6± north and 24.6±
 east of the east end of the
 Sec. 31, Twp. 28-S, R-1-W, M.
 Elev. = 1359.71 NAVD88

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	STATION/NO.	DIRECTION	APPROXIMATE LENGTH 4" PIPE	VERTICAL
35	4" Sub	6	C	5+18.4/21	5'	2.0'	10'

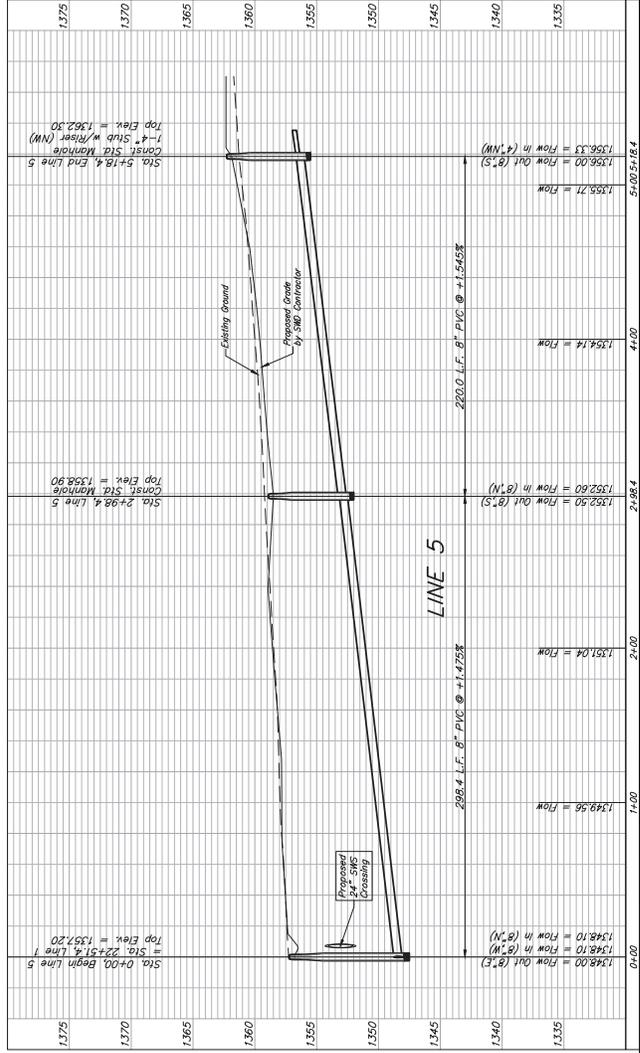
Notes:
 1. All manholes shall be installed to a 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



4751-176

4751-177

4751-178



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CRANOR ADDITION
 PHASE 1

LINE 5

SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER

DESIGN DRAWN: JMK
 DATE: Sep. 13, 2024

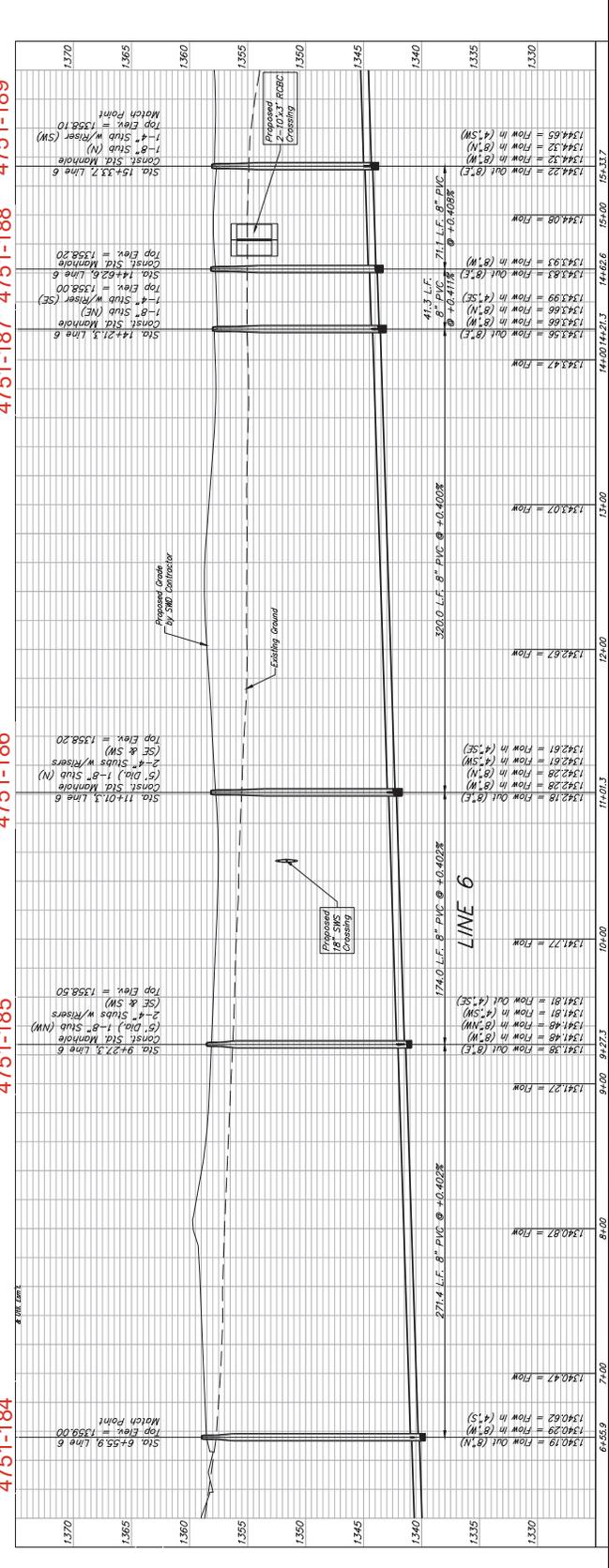
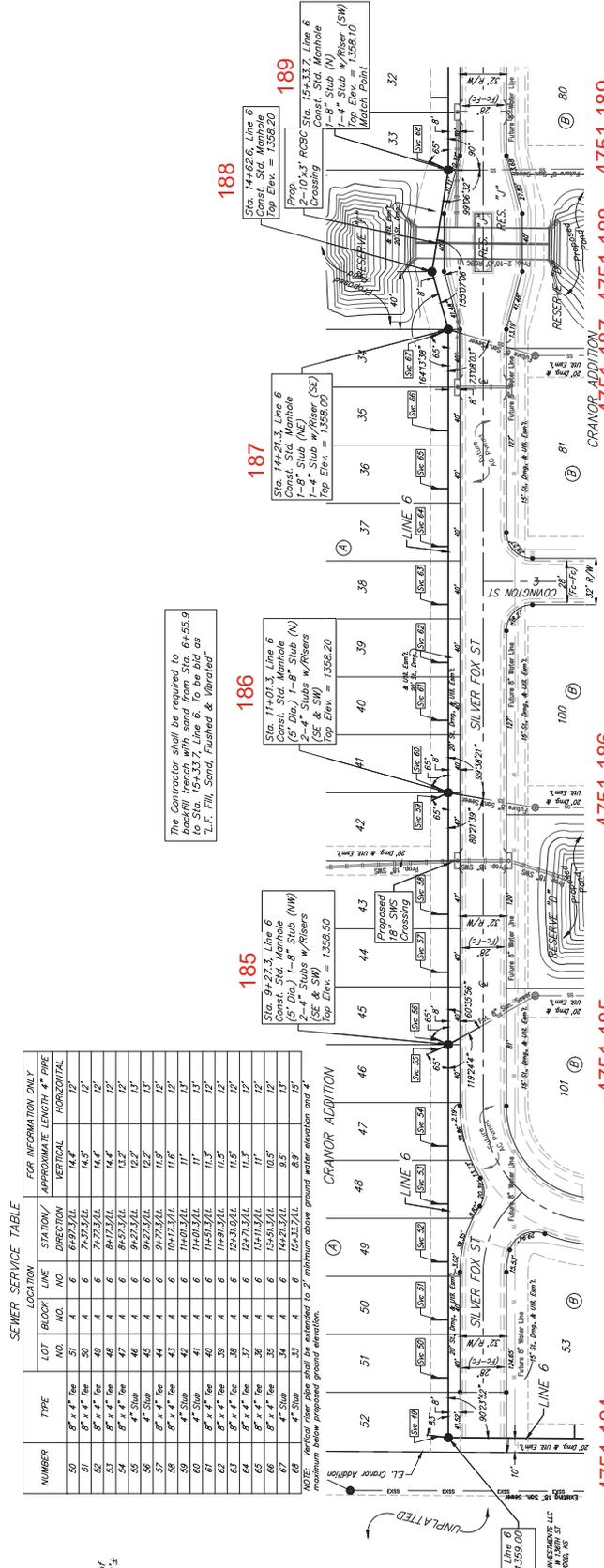
SHEET
12 OF
35

BENCHMARKS:
 "A" = cut top of the east end of
 end of the east RCP 174.5 ±
 SW Cor. NW 1/4, Sec. 31,
 Twp. 28 - S, R. 1 - W
 Elev. = 1358.12 NAVD88
 "B" = cut top of the east end of
 end of the east RCP 174.5 ±
 SW Cor. NW 1/4, Sec. 31,
 Twp. 28 - S, R. 1 - W
 Elev. = 1358.12 NAVD88

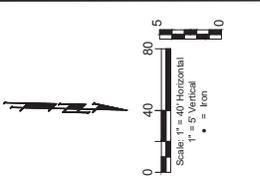
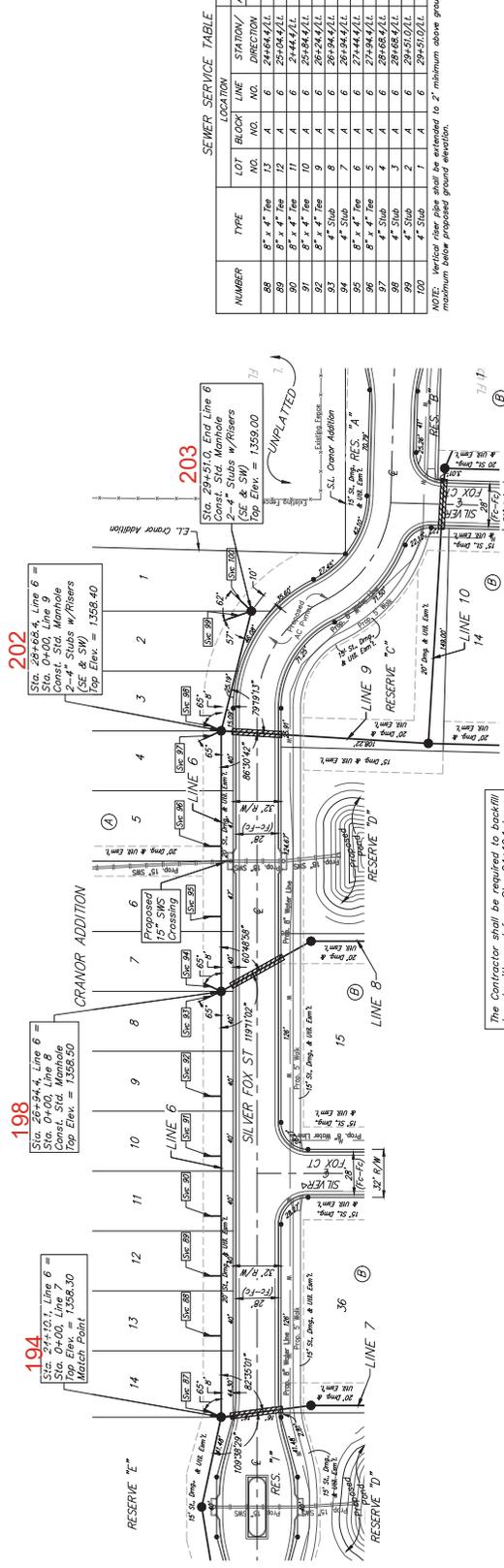
SEWER SERVICE TABLE

NUMBER	TYPE	LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	FOR INFORMATION ONLY	
						APPROXIMATE LENGTH	4" PIPE
						HORIZONTAL	VERTICAL
50	8" x 8" Pipe	51	A	6	6+59.37/L	14.4'	12"
51	8" x 8" Pipe	50	A	6	7+37.37/L	14.5'	12"
52	8" x 8" Pipe	49	A	6	8+15.37/L	14.4'	12"
53	8" x 8" Pipe	48	A	6	8+57.37/L	13.2'	12"
54	8" x 8" Pipe	47	A	6	9+27.37/L	12.2'	12"
55	8" x 8" Pipe	46	A	6	9+27.37/L	12.2'	12"
56	8" x 8" Pipe	45	A	6	9+27.37/L	12.2'	12"
57	8" x 8" Pipe	44	A	6	9+27.37/L	11.9'	12"
58	8" x 8" Pipe	43	A	6	11+01.37/L	11.1'	12"
59	8" x 8" Pipe	42	A	6	11+01.37/L	11.1'	12"
60	8" x 8" Pipe	41	A	6	11+01.37/L	11.1'	12"
61	8" x 8" Pipe	40	A	6	11+51.37/L	11.3'	12"
62	8" x 8" Pipe	39	A	6	11+51.37/L	11.5'	12"
63	8" x 8" Pipe	38	A	6	12+31.37/L	11.5'	12"
64	8" x 8" Pipe	37	A	6	12+31.37/L	11.5'	12"
65	8" x 8" Pipe	36	A	6	13+11.37/L	11.1'	12"
66	8" x 8" Pipe	35	A	6	13+11.37/L	10.5'	12"
67	8" x 8" Pipe	34	A	6	14+21.37/L	8.9'	12"
68	8" x 8" Pipe	33	A	6	15+31.37/L	8.9'	12"

Stationing is given to 2' minimum above ground water elevation and 4' minimum below proposed ground elevation.



BENCHMARKS:
 "x" = cut top of the east end of
 ACBC, 586.0±, north and 24.6±
 north end 34.7± east of the
 SW Cor. NW/4, Sec. 31,
 Twp. 28°-S, R. 11°-W,
 Elev. = 1358.12 NAVD88
 "y" = cut top of the east end of
 ACBC, 586.0±, north and 24.6±
 north end 34.7± east of the
 SW Cor. NW/4, Sec. 31,
 Twp. 28°-S, R. 11°-W,
 Elev. = 1358.12 NAVD88



SEWER SERVICE TABLE

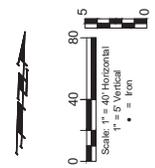
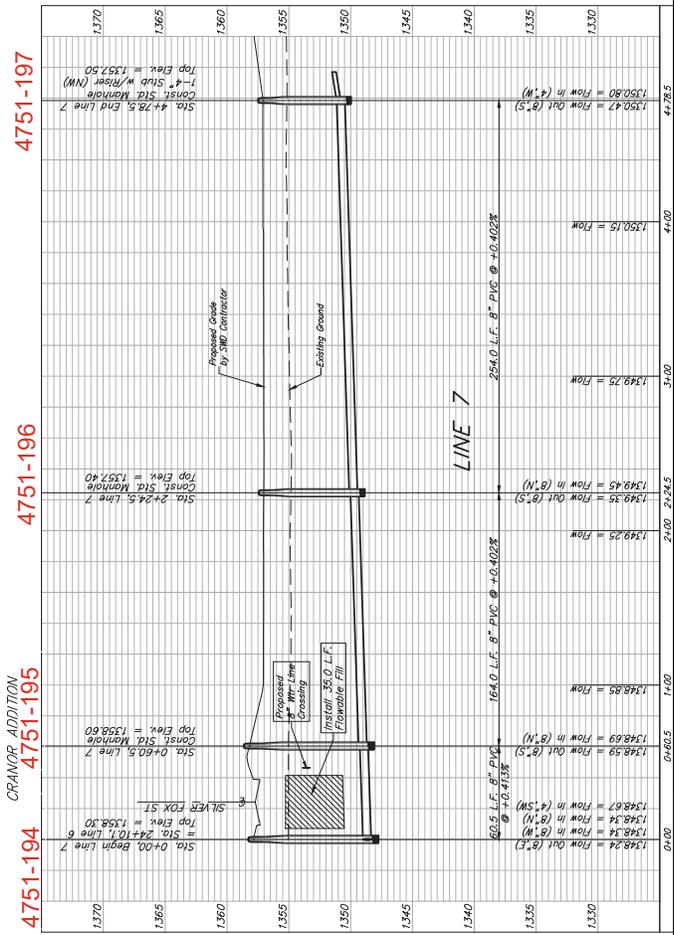
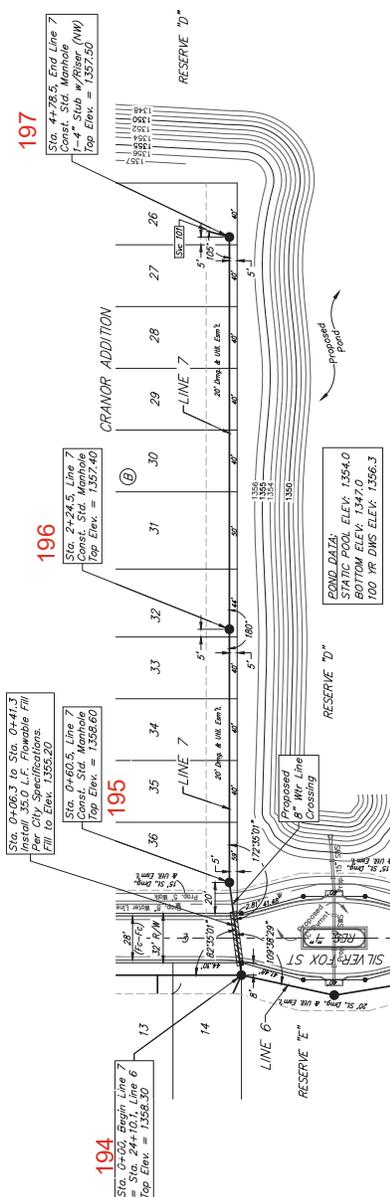
NUMBER	TYPE	LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	FOR INFORMATION ONLY	
						APPROXIMATE LENGTH	4" PIPE
						VERTICAL	HORIZONTAL
89	8" x 4" Tee	11	A	6	25+44.4/1	5.4'	12'
90	8" x 4" Tee	11	A	6	25+44.4/1	5.4'	12'
91	8" x 4" Tee	10	A	6	25+44.4/1	5.4'	12'
92	8" x 4" Tee	9	A	6	25+44.4/1	5.4'	12'
93	4" Stub	9	A	6	25+44.4/1	4.1'	13'
94	8" x 4" Tee	6	A	6	27+44.4/1	3.7'	12'
95	8" x 4" Tee	5	A	6	27+44.4/1	3.4'	12'
96	8" x 4" Tee	4	A	6	28+68.4/1	3.5'	13'
97	4" Stub	3	A	6	28+68.4/1	3.5'	13'
98	4" Stub	2	A	6	29+02.0/1	3.1'	16'
99	4" Stub	1	A	6	29+02.0/1	3.1'	16'
100	4" Stub	1	A	6	29+02.0/1		

BENCHMARKS:
 + = cut top of the east end of
 end of the east RCP 174.5±
 north and 34.7± east of the
 SW Cor. NW 1/4, Sec. 31,
 Twp. 28-S, R-1-W
 Elev. = 1358.12 NAVD88
 + = cut top of the east end of
 RCB, 288.0± north and 24.6±
 east of the SW Cor. NW 1/4,
 Sec. 31, Twp. 28-S, R-1-W
 Elev. = 1359.71 NAVD88

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION		FOR INFORMATION ONLY			
		LOT NO.	BLOCK NO.	LINE NO.	APPROXIMATE LENGTH, 4" PIPE	DIRECTION	HORIZONTAL
107	4" Stub	26	B	7	478.5/41	4'	18"

NOTE: Vertical riser pipe shall be extended to 2' minimum above ground water elevation and 4' minimum below proposed ground elevation.



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CRANOR ADDITION
 PHASE 1

LINE 7

SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER

DESIGN DWG. DRAWN: JAK

DATE: Sep. 13, 2024

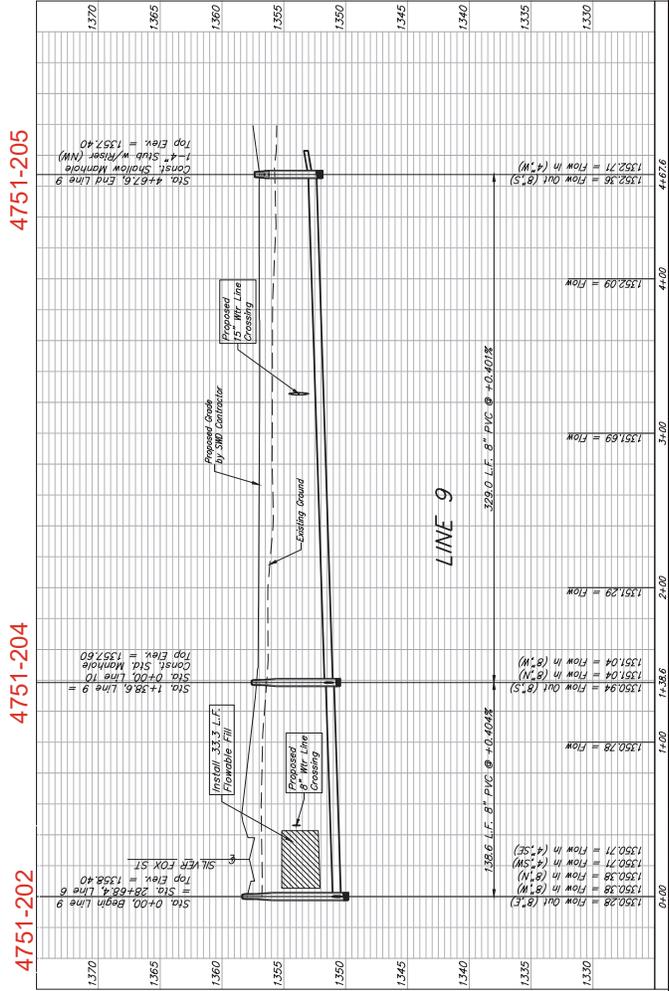
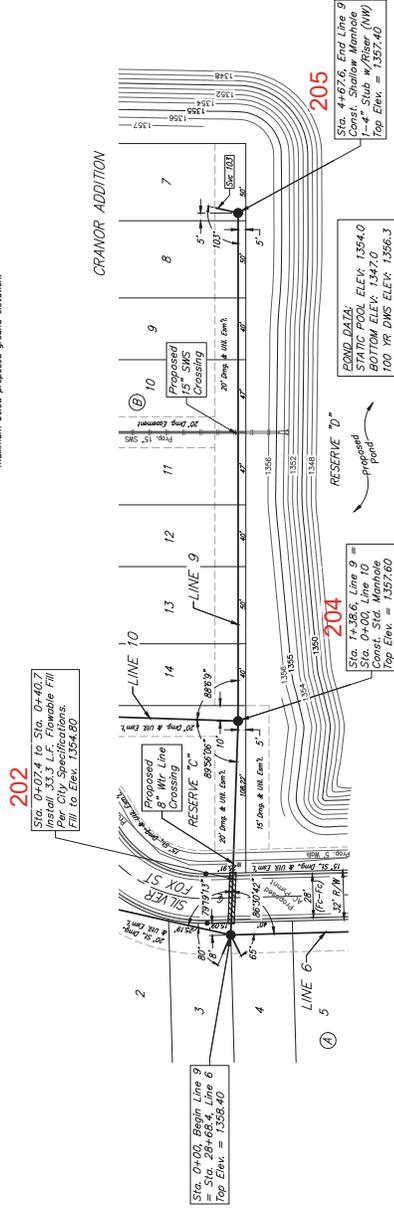
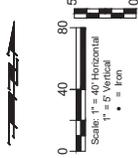
SHEET **17** OF **35**

BENCHMARKS:
 + = cut top of the south end of the east RCP 174.5± north and 34.7± east of the SW Cor. NW/4, Sec. 31, Twp. 28-S, R-1-W, Elev. = 13561.2 NAVD88
 * = cut top of the east end of RCB, 286.0± north and 24.6± east of the SW Cor. NW/4, Sec. 31, Twp. 28-S, R-1-W, Elev. = 13561.71 NAVD88

SEWER SERVICE TABLE

NUMBER	TYPE	LOT NO.	BLOCK NO.	STATION/ DIRECTION	FOR INFORMATION ONLY	
					APPROXIMATE LENGTH	4" PIPE
103	4" SWS	7	B	4+675.6/11	VERTICAL	HORIZONTAL
					0.2'	16'

NOTE: Vertical rise pipe shall be extended to 2' minimum above ground water elevation and 4' maximum above proposed ground elevation.



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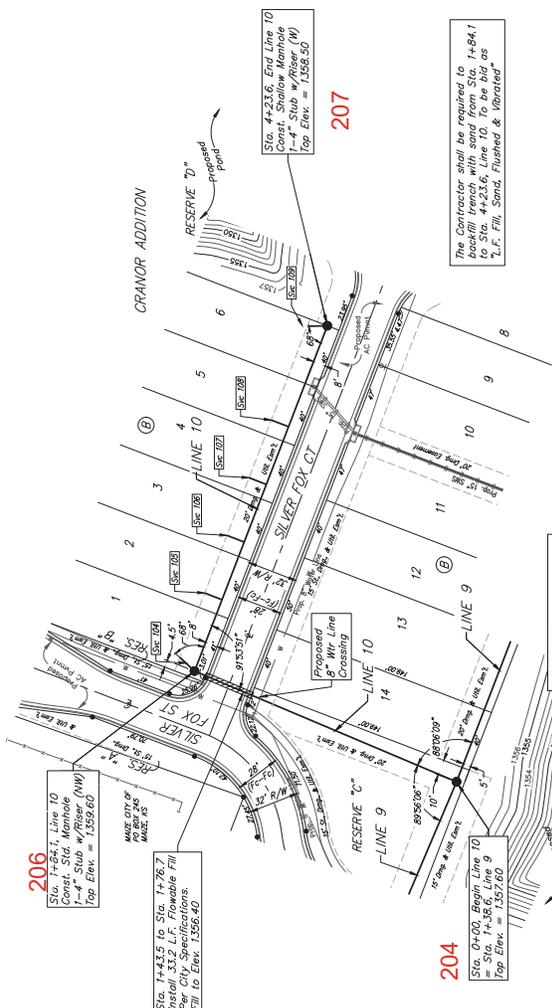
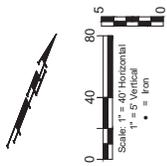
CRANOR ADDITION
 PHASE 1

LINE 9

SANITARY SEWER IMPROVEMENTS
 PROJECT NUMBER

DESIGN: DMV, CRANOR, JAK
 DATE: Sep. 13, 2024
 SHEET 19 OF 35

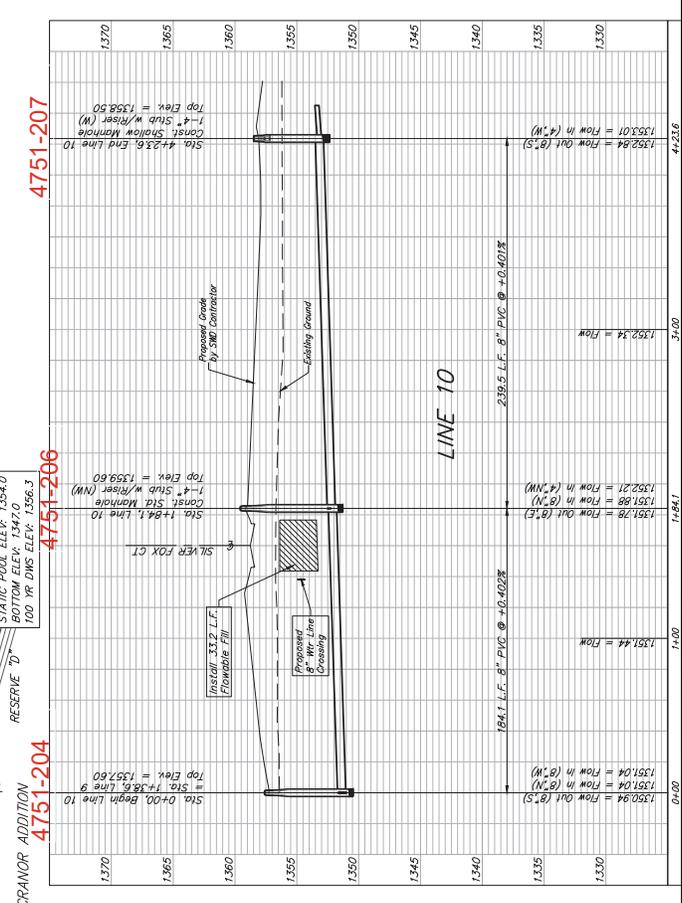
BENCHMARKS:
 + = cut top of the east end of
 the east RCP 174.5±
 north end 34.7± east of the
 SW Cor. NW/4, Sec. 31,
 Twp. 28-S, R-1-W
 Elev. = 1358.12 NAVD88
 * = cut top of the east end of
 R2BC, 588.0± north and 24.6±
 east of the SW Cor. NW/4,
 Sec. 31, Twp. 28-S, R-1-W
 Elev. = 1359.71 NAVD88



SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION		STATION/ DIRECTION	FOR INFORMATION ONLY	
		LOT NO.	LINE NO.		APPROXIMATE LENGTH 4" PIPE	HORIZONTAL VERTICAL
104	4" Stub	1	10	1+84.0/24.1	3.2'	12"
105	8" x 4" Tee	2	10	2+16.0/24.1	2.8'	12"
106	8" x 4" Tee	3	10	3+16.0/24.1	1.7'	12"
107	8" x 4" Tee	4	10	4+16.0/24.1	1.7'	12"
108	4" x 4" Tee	5	10	5+16.0/24.1	1.6'	12"
109	4" Stub	6	10	6+23.6/24.1	1.6'	12"

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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CRANOR ADDITION
 PHASE 1

LINE 10

SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER

DESIGN DWG. DRAWN: JAK

DATE: Sep. 13, 2024

SHEET **20** OF **35**

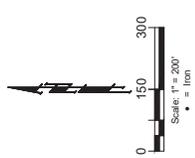
BENCHMARKS:
 + = cut top of the east end of the north end of the east RCP 174.5±
 north end 34.7± east of the SW Cor. NW 1/4, Sec. 31,
 Twp. 28-S, R. 1-W, N. 48E
 Elev. = 1358.71 NAVD88

+ = cut top of the east end of RCB, 288.6± north and 24.6± east of the east RCP 174.5± north end 34.7± east of the SW Cor. NW 1/4, Sec. 31, Twp. 28-S, R. 1-W, N. 48E
 Elev. = 1358.71 NAVD88

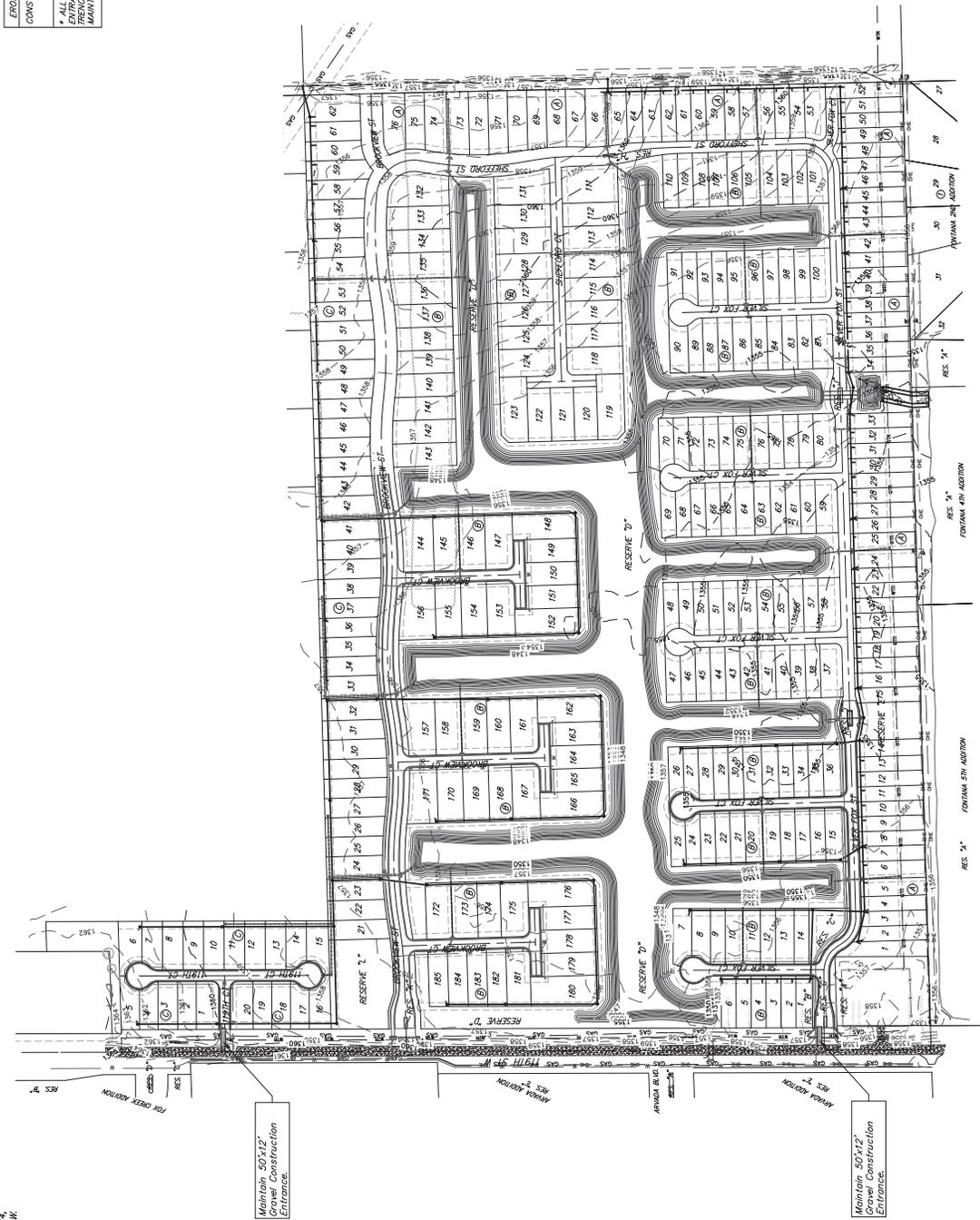
EROSION CONTROL MEASURE	INSTALL	MAINTAIN
CONSTRUCTION ENTRANCE (EA)	0	2

* ALL EXISTING SUBS, INCLUDING CONSTRUCTION ENTRANCE, SODIUM BARRIERS, SUTY FENCE, CUT-OFF FRENCH, AND EROSION CONTROL MAT SHALL BE MAINTAINED AND REPAIRED IF NECESSARY.

NOTES:
 1. Contractor shall make sure all erosion control is in place before project is occupied. This plan shows erosion control measures to be installed by the Contractor as needed.
 2. All areas disturbed during construction shall be seeded per Cover Sheet General Notes.



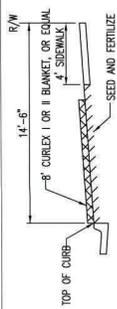
Existing Ground ——— 1364 ———



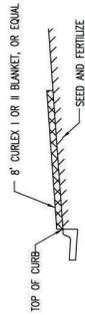
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EROSION CONTROL
 SANITARY SEWER IMPROVEMENTS
 PROJECT NUMBER: CHANOR ADDITION PHASE I

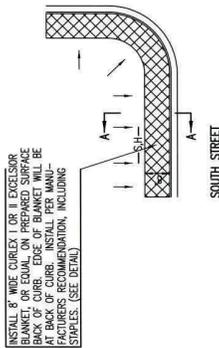
DESIGN: DMV, CHANALAK
 DATE: Sep. 13, 2024
 SHEET NO. OF 21 35



SECTION B-B



SECTION A-A

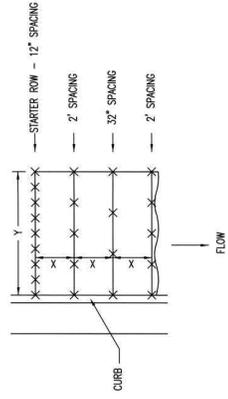


INSTALL 8" WIRE CURLEX (OR II EXCESSOR BLANKET, OR EQUAL) ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURER'S RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

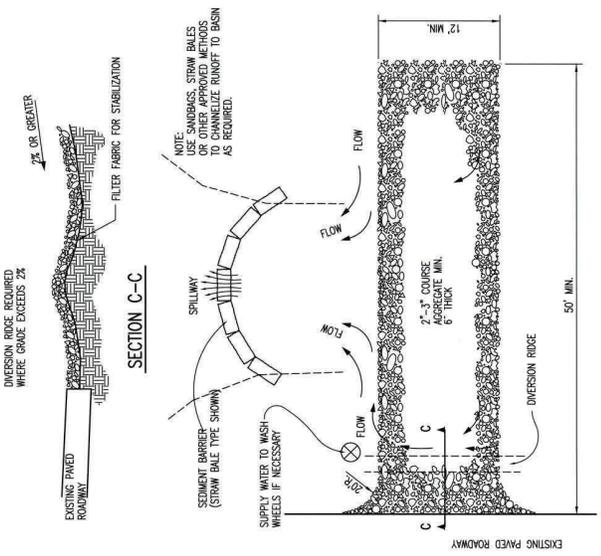
INSTALL 8" WIRE CURLEX (OR II EXCESSOR BLANKET, OR EQUAL) ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURER'S RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

- GENERAL NOTES**
- EXCESSOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
 - EXCESSOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
 - AFTER INSTALLATION OF EXCESSOR BLANKET, AT LOCATIONS WHERE CURB IS TO BE INSTALLED, THE CONTRACTOR SHALL INSTALL SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN
 NOTES: USE 6" SEAM OVERLAP
 (X & Y = RECOMMENDED BY MANUFACTURER)



SECTION C-C

STABILIZED CONSTRUCTION ENTRANCE

GENERAL NOTES

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT MAINTAINED. WHEEL WASHING SHALL BE PERFORMED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

REVISION DATE: MAY 2013

BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE

CITY ENGINEER
GARY JANZEN, P.E.

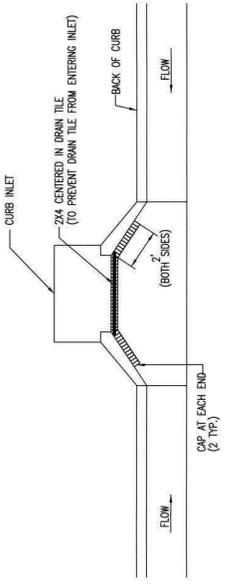
PROJECT NUMBER: _____ DATE: _____
 CITY ENGINEER'S OFFICE
 CITY HALL - SEVENTH FLOOR
 1000 S. WALKER STREET
 WICHITA, KANSAS 67202-1620
 (316) 268-4501

SHEET
22 of 35

CITY OF WICHITA
 PUBLIC WORKS & UTILITIES
 ENGINEERING DIVISION

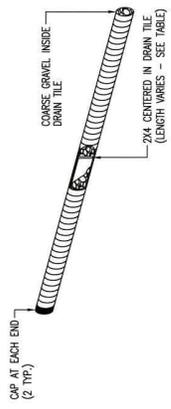


CURB INLET PROTECTION
 4" PERFORATED PIPE W/ GRAVEL



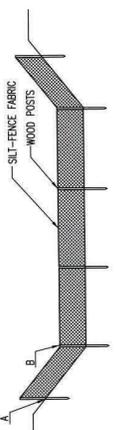
Z14 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"

NOTE: PLACE 4" PERFORATED PVC PIPE FILLED WITH 1/2"-1" DIA GRAVEL IN FRONT OF CURB INLET AS SHOWN.



DETAILS FOR APPROVED EROSION CONTROL MAT

NOTE: POINT A MUST BE HIGHER THAN POINT B, SO THAT WATER FLOWS FROM A TO B, OVER THE SILT FENCE FABRIC AND NOT AROUND IT.



SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

MATERIAL SPECIFICATION:
SILT FENCE FABRIC SHOULD CONFORM TO THE ASTM D2885 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. WATER SHOULD FLOW THROUGH A DITCH CHECK, NOT OVER IT. SILT FENCE SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING OVER THE SILT FENCE. SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD. SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK DITCH GRADE	SPACING CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

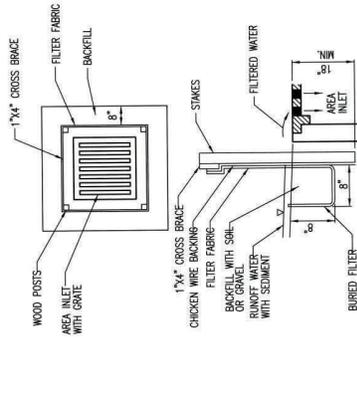
EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSTREAM SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE DOWNSTREAM END. OVERLAP THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE ON THE UPSTREAM SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING. PLACE THE SILT FENCE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". MAKE SURE POSTS ARE MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK-NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERMINE WHEN WATER POSTS ON THE UPSTREAM SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A COLLECTOR OUTLET. IT WILL NOT DO. DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL UNLIKELY EXPERIENCE HIGH FLOWS. THEY WILL STAND UP TO CONCENTRATED FLOW. FOLLOW PREScribed DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE. SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:
DOES WATER FLOW UNDER THE DITCH CHECK?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE ASTM D2885 96 SILT FENCE SPECIFICATION. THE WIRE OR POLYMER MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE ASTM D2885 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIERS FOR AREA INLETS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME. BARRIERS FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEP APPROACH STEPS, THE STAIRCASE CAPACITY BEHIND THE BARRIER IS DRAMATICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

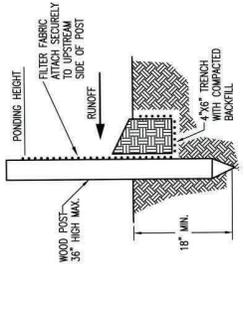
EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 6" WIDE. DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET. THE POSTS SHOULD BE PLACED AT LEAST 2' APART. CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING. ATTACH THE WIRE OR POLYMER MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE OF THE AREA INLET. OVERLAP THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET-NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLETS IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

INSPECTION AND MAINTENANCE:

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:
DOES WATER FLOW UNDER THE SILT FENCE?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE ASTM D2885 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

A SILT FENCE SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 4" DEEP BY 4" WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSTREAM SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE DOWNSTREAM END. OVERLAP THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE UPSTREAM SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. PLACE THE SILT FENCE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". MAKE SURE POSTS ARE MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES. DO NOT PLACE SILT FENCE POSTS ON THE UPSTREAM SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT. SILT FENCE SLOPE BARRIERS MUST BE PLACED TO THE GROUND-SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL TORN UNDERNEATH.

INSPECTION AND MAINTENANCE:

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:
ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
DOES WATER FLOW UNDER THE SLOPE BARRIER?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

GARY JANZEN, P.E.
CITY ENGINEER

PROJECT NUMBER: _____ DATE: _____
SHEET: _____

23 of 35

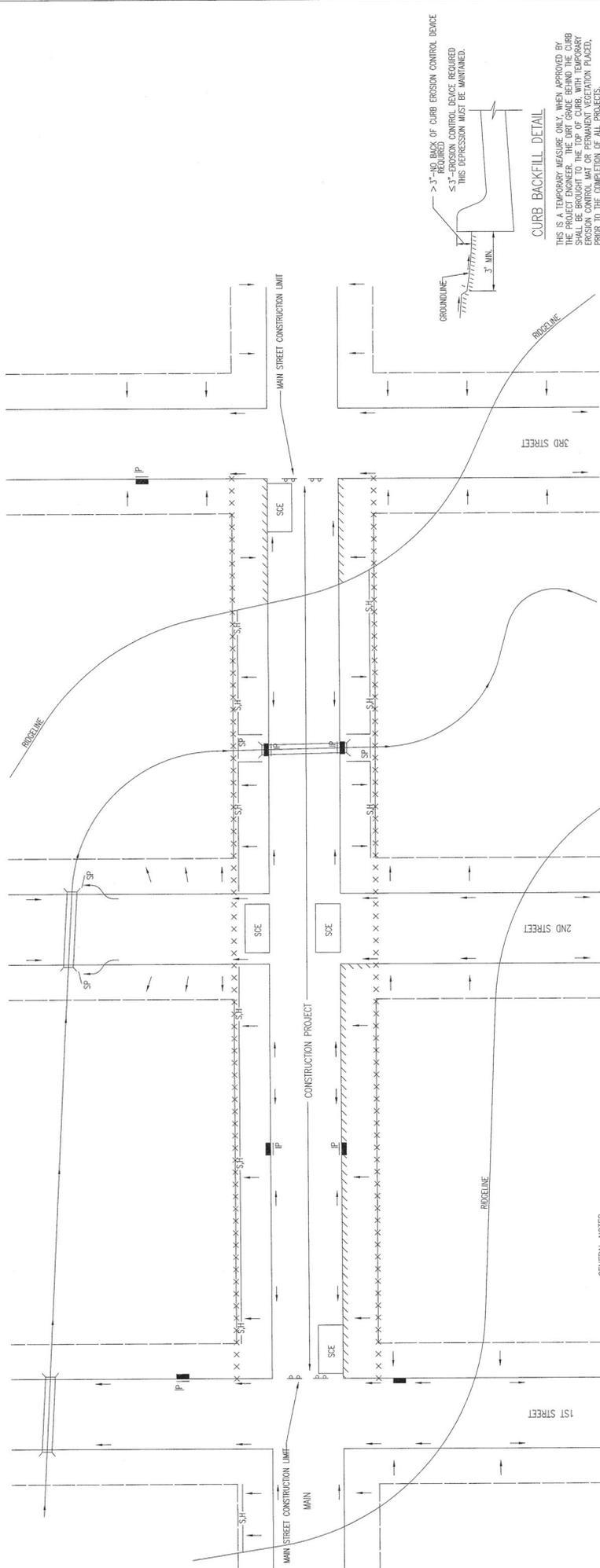
SILT FENCE DITCH CHECK AND BARRIER DETAILS

REVISION DATE: MAY 2013



GENERAL NOTES

1. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES SHOULD BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
2. EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.
3. IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
4. FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.
5. FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16-32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.
6. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.



GENERAL NOTES

1. THE WORK OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS, WITHIN THE LIMITS OF CONSTRUCTION.
2. THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
3. EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.
4. INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.
5. EROSION CONTROL DEVICES SHALL BE INSTALLED AT GREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.
6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
7. ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.
8. THE CONTRACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHICHEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, AND TO MAINTAIN THEM THROUGHOUT THE CONSTRUCTION PROCESS.
 - A. THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST.
 - B. THIS DEVICE SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BACKFILL DETAIL.)
 - C. ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MATINGS THAT THE RIGHT-OF-WAY IS TO BE PROTECTED.
 - D. SHOULD THE EXCESSIVE MAT NOT BE REQUIRED SO LONG AS THE SOIL IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL.)

LEGEND

- - - R-O-W LIMITS
- - - DRAINAGE FLOW PATH
- x x x x x R/W LIMIT WITHIN CONSTRUCTION LIMIT
- ▬ INLET PROTECTION
- ▬ STORM WATER INLETS
- ▬ INLET PROTECTION
- ▬ SILT FENCE OR HAY BALE BARRIER
- ▬ STREAM PROTECTION
- ▬ STABILIZED CONSTRUCTION ENTRANCE
- ▬ BACK OF CURB PROTECTION

REVISION: JUNE 2015

STREET IMPROVEMENT PROJECTS

CITY ENGINEER
GARY JANZEN, P.E.

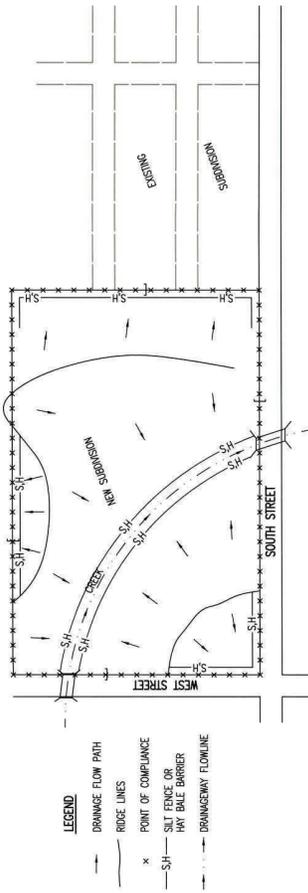
PROJECT NUMBER: O&A NUMBER: DATE:

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SHEET
25 of 35

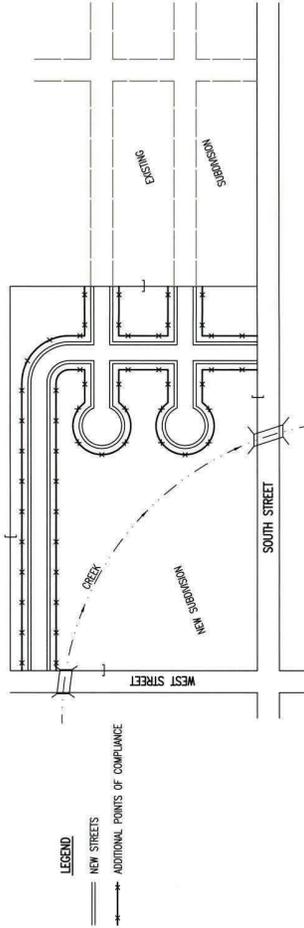


PHASE 1 – INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



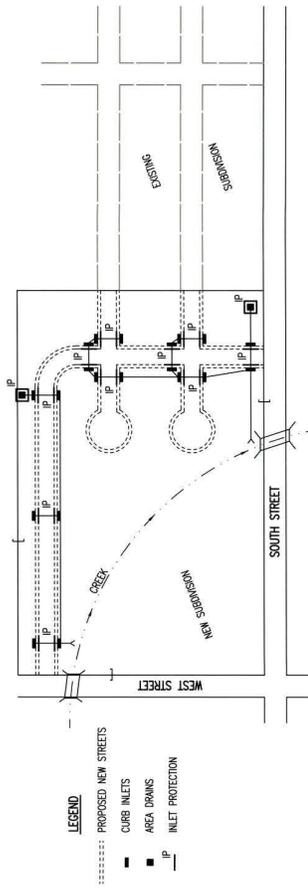
1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE FOR EROSION CONTROL DEVICES AS LONG AS THESE DESCRIBED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY LINE STREETS OR ON ADJACENT PROPERTIES TO EXTEND UTILITIES ARE EXPECTED TO USE EROSION CONTROL DEVICES AT THEIR WORK LOCATIONS, AS NEEDED.
2. HAY BALES OR SILT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE EROSION CONTROL DEVICES WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT ON DISCHARGE.
3. SHOULD SILT OR SEDIMENT ENTER THE DITCHES OR STREETS ON THE ADJACENT BOUNDARY STREETS, APPROPRIATE EROSION CONTROL DEVICES WILL BE PLACED WITHIN THE SUBDIVISION TO PREVENT THIS.
4. ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
5. CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE REQUIRED TO USE TEMPORARY EROSION CONTROL DEVICES AS LONG AS THESE DESCRIBED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY LINE STREETS OR ON ADJACENT PROPERTIES TO EXTEND UTILITIES ARE EXPECTED TO USE EROSION CONTROL DEVICES AT THEIR WORK LOCATIONS, AS NEEDED.
6. UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
7. IF THE INITIAL EARTHWORK AND UTILITIES ARE DONE AS PART OF A PUBLIC IMPROVEMENT PROJECT, THESE EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS SPECIFIED IN THE INDIVIDUAL PROJECT CONTRACTS. THE CONTRACTOR WILL MAINTAIN THE ASSIGNED MAINTENANCE RESPONSIBILITIES. IF THESE CONTRACTS ARE NOT PUBLIC IMPROVEMENT PROJECTS, THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THESE DEVICES.
8. WITHIN 14 DAYS OF COMPLETION OF EARTHWORK ACTIVITIES IN ANY GIVEN AREA, THAT AREA SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED.

PHASE 3 – STREET CONSTRUCTION



1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL EROSION CONTROL DEVICES INSTALLED DURING PHASE 1 AND 2 MUST STILL BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
2. CURB OPENING INLET PROTECTION:
 - A. SLOPE PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE WORK IS COMPLETED.
 - B. NON-SUMP LOCATIONS – PROVIDE INLET PROTECTION AS SOON AS BASE COURSE ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE LIFT.
3. EROSION CONTROL DEVICES WILL BE REQUIRED BACK OF CURB WHEREVER WATER CAN FLOW OVER THE CURB AND THE CURB HAS BEEN BACKFILLED TO WITHIN 2" OR LESS OF THE TOP OF CURB (SEE CURB BACKFILL DETAIL). CURBS NOT YET ENTIRELY BACKFILLED AT POINTS WHERE WATER BEGINS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
4. SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
5. THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE SUPPLEMENTED WITH HAY BALE OR SILT FENCE EROSION CONTROL DEVICES AT LOCATIONS WHERE CONCENTRATED FLOW RESULTS IN SEDIMENT BEING CARRIED OVER THE EXCESSOR WAIS.
6. THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
7. THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE BACK OF CURB EROSION CONTROL DEVICES IN FRONT OF THEIR LOTS UNTIL SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOD.

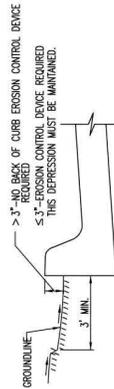
PHASE 2 – INSTALLATION OF STORM SEWER



1. DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
2. AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
3. AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
4. CURB OPENING INLETS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION DEVICES MUST BE INSTALLED, IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION. SEE PHASE 3 – STREET CONSTRUCTION.
5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
7. ALL DISTURBED GROUND WILL BE FINAL GRADED AND TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS OF COMPLETION OF WORK IN ANY GIVEN PART OF THE SUBDIVISION WITH GRASS OR SOD. THE SUBDIVISION DEVELOPER WILL BE RESPONSIBLE FOR PERMANENTLY REMAINING THE INLET PROTECTION.
8. ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED FOR PERMANENTLY REMAINING THE INLET PROTECTION.

1. ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKES, STREETS OR ANY OTHER OTHER DRAINAGE FEATURE.
2. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
3. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON SOIL EROSION BMP'S DETAIL SHEETS.
4. PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
5. THE DEVELOPMENT OF ANY SUBDIVISION THAT DISTURBS 1 ACRE OR MORE WILL BE REQUIRED TO SUBMIT AND INSTALL A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. EROSION CONTROL DEVICES ARE REQUIRED. THE DETAILS SHOWN ON THIS SHEET ARE THE MINIMUM STANDARDS TO BE SHOWN ON POLLUTION PREVENTION PLANS.
6. FOR SUBDIVISIONS SMALLER THAN 1 ACRE, SOIL EROSION DEVICES ARE REQUIRED. ALSO, DEVELOPERS AND CONTRACTORS ARE ENCOURAGED TO DEVELOP POLLUTION PREVENTION PLANS FOR EACH PROJECT PRIOR TO CONSTRUCTION.
7. FAILURE TO USE AND MAINTAIN SOIL EROSION DEVICES IS A VIOLATION OF SECTION 16.30 OF THE CITY CODE AND WILL SUBJECT THE SUBDIVISION DEVELOPER AND CONTRACTORS TO THE PENALTIES PROVIDED THEREIN.
8. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS INTENDED TO PREVENT EROSION OF THE EARTH SURFACE. OTHER EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED SO LONG AS THEY ARE EFFECTIVE AND MAINTAINED.
9. A STABILIZED EARTH SURFACE IS DEFINED AS ONE THAT IS HARD SURFACED WITH CONCRETE, ASPHALT, OR THE LIKE OR ONE ON WHICH 70% OF THE GRASS HAS GERMINATED ON THE ENTIRE SURFACE.

SEE DETAIL SHEET FOR BACK OF CURB PROTECTION DETAIL



CURB BACKFILL DETAIL (STREET CONSTRUCTION ONLY)

THIS IS A TEMPORARY MEASURE ONLY. WHEN APPROVED BY THE PROJECT ENGINEER, THE DIRT GRADE BEHIND THE CURB SHALL BE REGRADED TO THE ORIGINAL FINISH GRADE PRIOR TO THE COMPLETION OF ALL PROJECTS.

REVISION DATE: MAY 2013

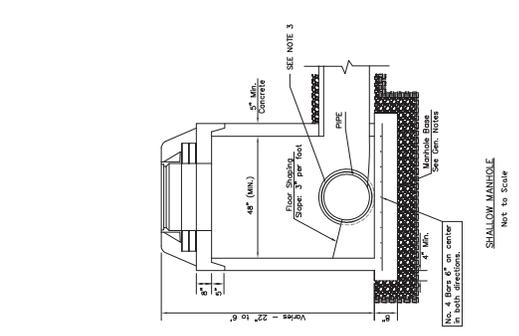
SUBDIVISION DEVELOPMENT PROCESS	
CITY ENGINEER	GARY JANZEN, P.E.
PROJECT NUMBER	SOL NUMBER
DATE	
CITY ENGINEER'S OFFICE CITY OF WICHITA, KANSAS 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 P: 316 268-6681	
SHEET 26 of 35	





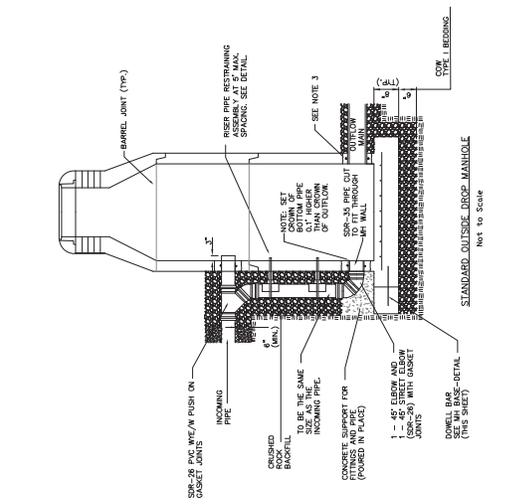
REVISION APRIL 2017	REMOVED CLEANOUT ON OUTSIDE DROP MANHOLE
CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION	
PROJECT NUMBER	OCA NUMBER
CITY ENGINEER	DATE
GARY JANZEN, P.E.	
CITY ENGINEER'S OFFICE 435 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 266-4501	
SHEET	27 of 35

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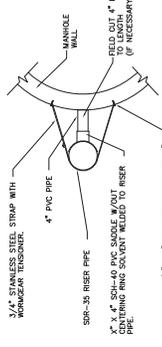


SHALLOW MANHOLE
Not to Scale

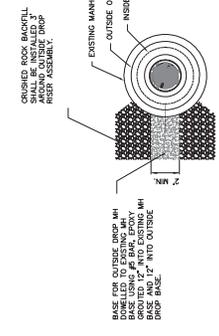
SANITARY SEWER MANHOLE DIAMETERS	
DIAMETER	PIPE SIZE
4"	0'-15"
5"	>15'-30"
6"	>30'



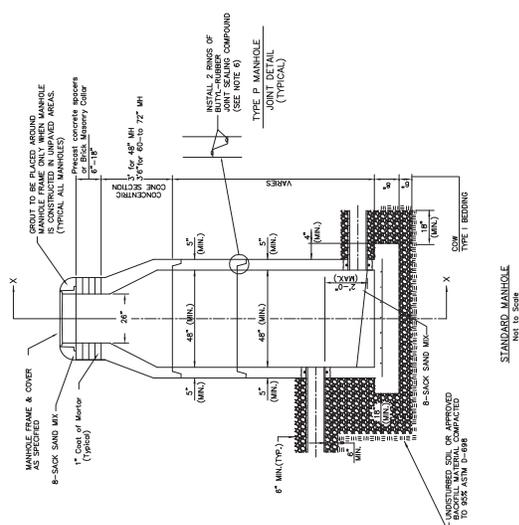
STANDARD OUTSIDE DROP MANHOLE
Not to Scale



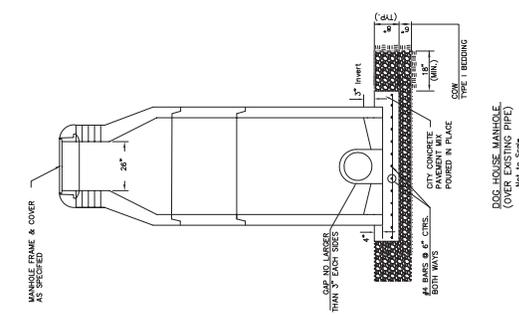
RISER PIPE RESTRAINING ASSEMBLY
Not to Scale



MANHOLE BASE DETAIL
Not to Scale



STANDARD MANHOLE
Not to Scale



DOG HOUSE MANHOLE
(ON EXISTING PIPE)
Not to Scale

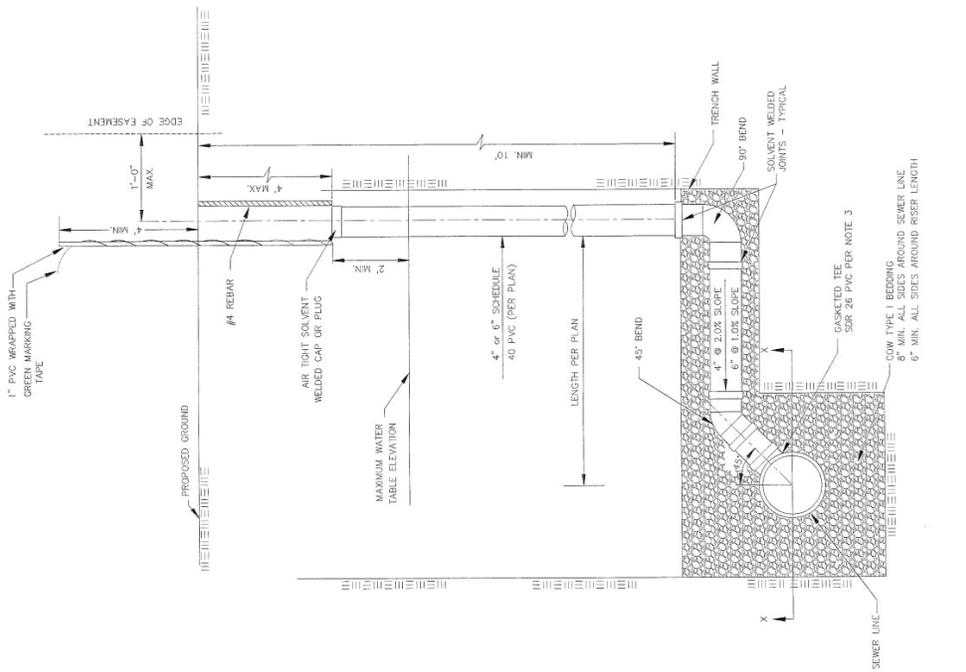
PRECAST MANHOLE GENERAL NOTES

1. ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
2. NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
3. APPROVED FLEXIBLE WATERSTOP SHALL BE INSTALLED TO JOIN THE SEWER PIPE TO THE MANHOLE WALL. MANHOLE WALL AND TO THE FIRST JOINT FOR JOINTS SUCH THAT THE JOINT REMAINS FLEXIBLE.
4. ALL INTERIOR SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
5. EXTERIOR MANHOLE WALLS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
6. JOINT SEALING COMPOUND SHALL BE PER 804.4 OF STANDARD SPECIFICATIONS.
7. ALL MANHOLE SECTION JOINTS THAT WILL BE IN GROUNDWATER OR GREATER THAN 12" DEEP SHALL BE WRAPPED WITH AN EXTERNAL JOINT SEAL PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
8. DOG HOUSE MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE FOR
9. TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHAPED INVERT.
10. LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
11. CONCRETE MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CONCRETE FOR PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY STANDARD MANHOLE RINGS AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
12. PRECAST MANHOLE SECTIONS SHALL BE PLACED ON 4" CONCRETE IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE.
13. WALL THICKNESS SHALL BE 1" GREATER THAN MANHOLE DIAMETER IN FEET.
14. OPENINGS SHALL BE CORE DRILLED INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS DRILLED INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL WITH PVC PIPE. THE NEW PIPE SHALL BE ORIENTED INTO THE OPENING USING AN APPROVED NON-SHRINK GROUT. THE JOINT BETWEEN THE EXISTING MANHOLE AND THE NEW PIPE SHALL BE WATER TIGHT, BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTION OF MANHOLE FLOOR, SHALL BE PAID FOR THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE BOTTOM HALVES OF THE INFLUING PIPES AND THE OUTGOING PIPE AS SHOWN BY THE DRAWINGS. CHANNELS SLOPED TOWARD THE FLOW CHANNELS. INPETS LAD THROUGH MANHOLES SHALL HAVE THE TOP THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
15. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD RETAIL DRAWING.
16. THE VERTICAL DROP IN STANDARD MANHOLES SHALL NOT EXCEED 2" REGARDLESS OF PIPE SIZE. THE CHURNS OF INFLUING PIPES SHALL NEVER BE LONGER THAN THE CHURN OF THE OUTGOING PIPE. OUTSIDE DROP MANHOLES SHALL BE AS STANDARD OUTSIDE DROP MANHOLES UNLESS OTHERWISE INDICATED. ALL MANHOLE DIAMETERS WILL BE 4" UNLESS OTHERWISE INDICATED.
17. PRECAST CONCRETE SPACERS OR BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE MANHOLE WALL. THE COLLAR SHALL BE PLACED ON THE INSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.
18. THE FULL DIAMETER OF THE MANHOLE SHALL EXTEND THE ENTIRE DEPTH OF THE MANHOLE TO THE CONE SECTION. NO REDUCTION IN MANHOLE DIAMETER WILL BE ALLOWED.

= UNDISTURBED SOIL
 = COW TYPE 1 BEDDING
 = COW TYPE 1 BEDDING

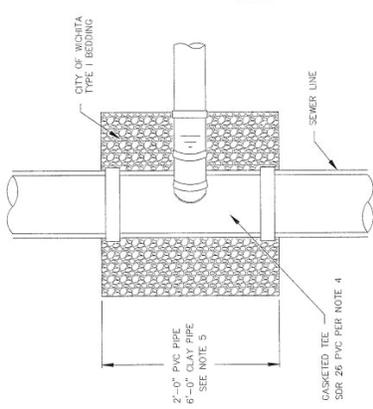
GENERAL NOTES

1. APPLICATION: Risers shall be installed to serve all lots or fronts where the sanitary sewer main is below the water table, where the sanitary sewer main depth is greater than 12' below the proposed ground elevation, where the water table is greater than 12' below the proposed ground elevation, or where the sanitary sewer main is located under storm sewer pipe installation of risers because of field conditions and as approved by the City Engineer. The location of the risers to serve the lot shall be approved by the property owner and the Construction Engineer.
2. MANHOLE STUD RISERS: Manhole stud risers be installed in manholes where locations of manholes will provide satisfactory service connection as determined by the Construction Engineer. The vertical distance between the top of the riser and the top of the manhole shall not exceed 2'. Risers shall be utilized at manholes as indicated in Note 1. Manhole stud riser shall be set such that the top of the riser is not lower than the top of the sanitary sewer line.
3. SIZING: Risers shall be sized according to the plans and riser table where risers are indicated by the plans. Where risers are required because of field conditions, the risers shall be 6" diameter for commercial or industrial lot size and sanitary sewer main depth. Sizing of risers shall be approved by the construction Engineer prior to installation.
4. RISER MATERIAL: Risers shall be constructed of Schedule 40 PVC pipe, meaning the equipment shall be tested to the same standards as Schedule 40 PVC pipe. The riser shall be 6" diameter for commercial or industrial lot size and sanitary sewer main depth. Sizing of risers shall be approved by the construction Engineer prior to installation.
5. ROCK ENCASUREMENT: Rock encasement to enclose the sanitary risers shall extend three feet from the riser centerline or stop at the first sanitary sewer manhole. The rock encasement shall be 18" thick and shall be placed on a 4" thick concrete pad. The rock encasement shall be placed on a 4" thick concrete pad. The rock encasement shall be placed on a 4" thick concrete pad. The rock encasement shall be placed on a 4" thick concrete pad.
6. BEDDING: Beyond the limits of the rock encasement, bedding around the sanitary sewer riser shall be compacted Pipe Bedding Type 1 or 2. The bedding shall be placed on a 4" thick concrete pad. The bedding shall be placed on a 4" thick concrete pad. The bedding shall be placed on a 4" thick concrete pad.
7. SUPPORT OF RISERS: Sanitary sewer riser pipe shall be supported during trench backfill. The riser pipe shall be tied in a vertical position at all times until trench backfill and compaction has been completed. Contractor's responsibility for supporting the riser pipe shall be approved by the Construction Engineer.
8. FITTINGS: The ends of the riser pipes and manhole stubs shall be plugged using an upright solvent welded cap or plug. Cap or plug fittings shall be approved by the Construction Engineer prior to installation. Caps or plugs which do not provide an airtight seal will not be accepted.
9. TOP OF THE RISER PIPE: The top elevation of the sanitary riser pipe shall be marked by installing a 4" x 4" x 1/2" galvanized steel cap or plug. The cap or plug shall be placed on the top of the riser pipe and shall be secured to the riser pipe with a 1/2" diameter bolt. The cap or plug shall be placed on the top of the riser pipe and shall be secured to the riser pipe with a 1/2" diameter bolt.
10. MARKING: Locations of the ends of the sanitary sewer riser pipe shall be marked by installing a 4" x 4" x 1/2" galvanized steel cap or plug. The cap or plug shall be placed on the top of the riser pipe and shall be secured to the riser pipe with a 1/2" diameter bolt. The cap or plug shall be placed on the top of the riser pipe and shall be secured to the riser pipe with a 1/2" diameter bolt.
11. LOCATION MEASURES: The project inspector shall record and document the location of the riser pipe from the manhole, the direction and distance from the manhole, riser size, and elevation of the top of the riser in tabular format.
12. RISER LOCATION: The riser shall be located per plan if shown. If not shown on the plan, the riser shall be located at the center of the lot, with one exception. If the riser is located on a lot with a minimum lot width of 100 feet, the riser shall be located on the lot with a minimum lot width of 100 feet, with one exception. If the riser is located on a lot with a minimum lot width of 100 feet, the riser shall be located on the lot with a minimum lot width of 100 feet.
13. PAYMENT: "Riser Assembly, Vertical" shall be paid for at the contract unit price per each, which shall be full compensation for all pipe, fittings, marking tape, length of backfill, labor, site restoration, and any other items necessary to complete the work.



SANITARY SEWER RISER TABLE						
NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO. STATION	DIRECTION	APPROXIMATE LENGTH
1	4" MANHOLE CONNECTION					
2	6" MANHOLE CONNECTION					
3	4" TEE					
4	6" TEE					

NOTE: TABLE FOR REFERENCE ONLY AND SHOULD BE ON EACH APPLICABLE PLAN SHEET.



NOTE: NON-SHEAR COUPLING TO BE USED WHEN HOOKING TO CLAY PIPE.

TYPICAL SECTION X-X
SHALL BE SIMILAR TO THOSE SHOWN ABOVE.



CITY OF WICHITA
PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

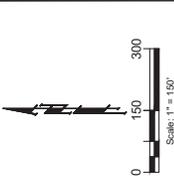
VERTICAL RISER ASSEMBLY SEWER DETAIL

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER: _____ DATE: _____
SHEET: _____

CITY ENGINEER'S OFFICE
1155 NORTH MAIN STREET
WICHITA, KANSAS 67202-1420
(316) 266-4601

29 of 35

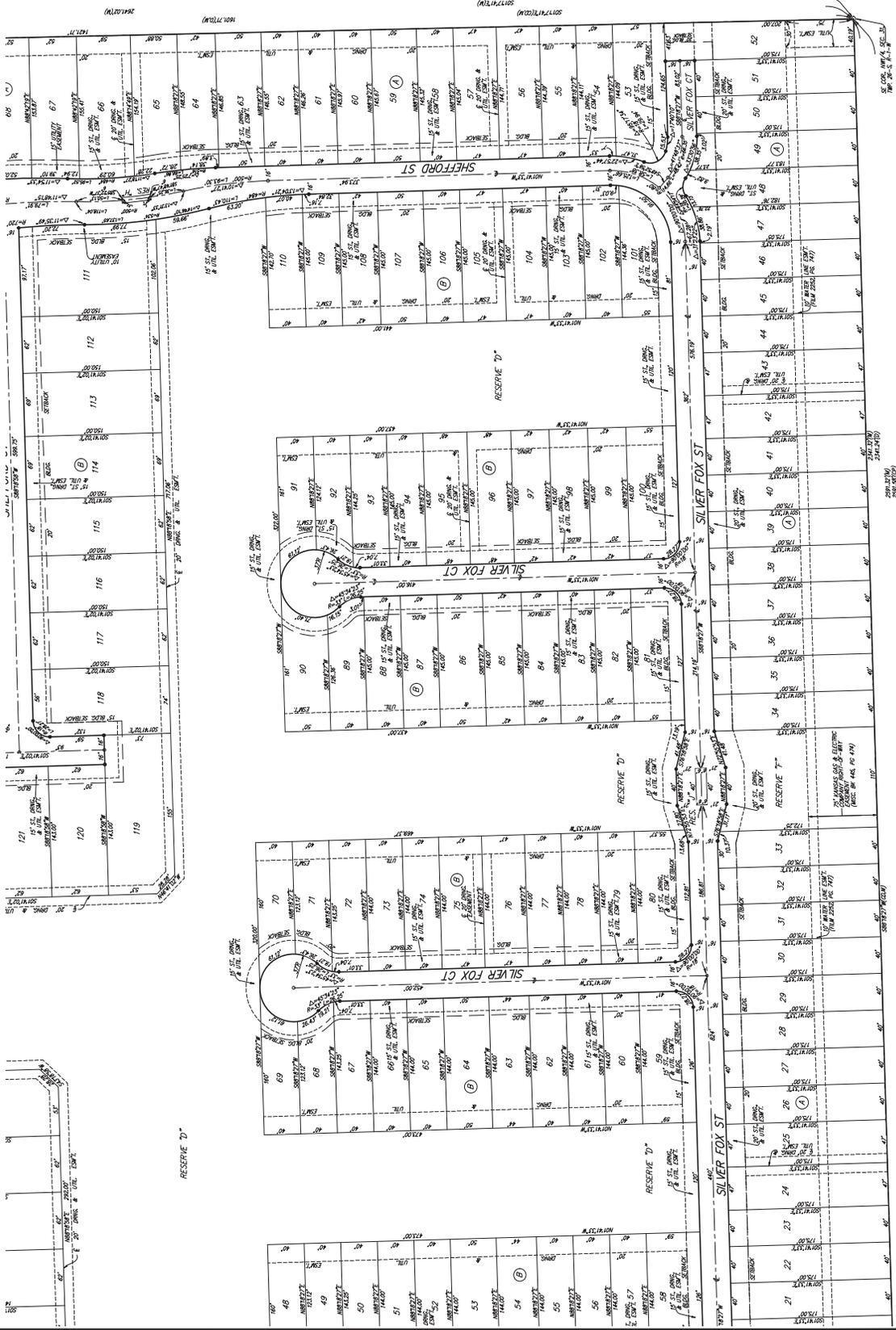


Point	Northing	Easting	Point	Northing	Easting	Point	Northing	Easting
1	1706283.08	1607206.28	71	1706251.14	1606408.53	142	1706256.25	1607139.49
2	1706332.18	1606942.58	72	1706252.18	1606404.51	143	1706261.30	1607144.54
3	1706381.28	1606678.78	73	1706253.22	1606400.49	144	1706266.35	1607149.59
4	1706430.38	1606414.98	74	1706254.26	1606396.47	145	1706271.40	1607154.64
5	1706479.48	1606151.18	75	1706255.30	1606392.45	146	1706276.45	1607159.69
6	1706528.58	1605887.38	76	1706256.34	1606388.43	147	1706281.50	1607164.74
7	1706577.68	1605623.58	77	1706257.38	1606384.41	148	1706286.55	1607169.79
8	1706626.78	1605359.78	78	1706258.42	1606380.39	149	1706291.60	1607174.84
9	1706675.88	1605095.98	79	1706259.46	1606376.37	150	1706296.65	1607179.89
10	1706724.98	1604832.18	80	1706260.50	1606372.35	151	1706301.70	1607184.94
11	1706774.08	1604568.38	81	1706261.54	1606368.33	152	1706306.75	1607189.99
12	1706823.18	1604304.58	82	1706262.58	1606364.31	153	1706311.80	1607195.04
13	1706872.28	1604040.78	83	1706263.62	1606360.29	154	1706316.85	1607200.09
14	1706921.38	1603776.98	84	1706264.66	1606356.27	155	1706321.90	1607205.14
15	1706970.48	1603513.18	85	1706265.70	1606352.25	156	1706326.95	1607210.19
16	1707019.58	1603249.38	86	1706266.74	1606348.23	157	1706332.00	1607215.24
17	1707068.68	1602985.58	87	1706267.78	1606344.21	158	1706337.05	1607220.29
18	1707117.78	1602721.78	88	1706268.82	1606340.19	159	1706342.10	1607225.34
19	1707166.88	1602457.98	89	1706269.86	1606336.17	160	1706347.15	1607230.39
20	1707215.98	1602194.18	90	1706270.90	1606332.15	161	1706352.20	1607235.44
21	1707265.08	1601930.38	91	1706271.94	1606328.13	162	1706357.25	1607240.49
22	1707314.18	1601666.58	92	1706272.98	1606324.11	163	1706362.30	1607245.54
23	1707363.28	1601402.78	93	1706274.02	1606320.09	164	1706367.35	1607250.59
24	1707412.38	1601138.98	94	1706275.06	1606316.07	165	1706372.40	1607255.64
25	1707461.48	1600875.18	95	1706276.10	1606312.05	166	1706377.45	1607260.69
26	1707510.58	1600611.38	96	1706277.14	1606308.03	167	1706382.50	1607265.74
27	1707559.68	1600347.58	97	1706278.18	1606304.01	168	1706387.55	1607270.79
28	1707608.78	1600083.78	98	1706279.22	1606300.00	169	1706392.60	1607275.84
29	1707657.88	1599819.98	99	1706280.26	1606295.98	170	1706397.65	1607280.89
30	1707706.98	1599556.18	100	1706281.30	1606291.96	171	1706402.70	1607285.94
31	1707756.08	1599292.38	101	1706282.34	1606287.94	172	1706407.75	1607290.99
32	1707805.18	1599028.58	102	1706283.38	1606283.92	173	1706412.80	1607296.04
33	1707854.28	1598764.78	103	1706284.42	1606279.90	174	1706417.85	1607301.09
34	1707903.38	1598500.98	104	1706285.46	1606275.88	175	1706422.90	1607306.14
35	1707952.48	1598237.18	105	1706286.50	1606271.86	176	1706427.95	1607311.19
36	1708001.58	1597973.38	106	1706287.54	1606267.84	177	1706433.00	1607316.24
37	1708050.68	1597709.58	107	1706288.58	1606263.82	178	1706438.05	1607321.29
38	1708099.78	1597445.78	108	1706289.62	1606259.80	179	1706443.10	1607326.34
39	1708148.88	1597181.98	109	1706290.66	1606255.78	180	1706448.15	1607331.39
40	1708197.98	1596918.18	110	1706291.70	1606251.76	181	1706453.20	1607336.44
41	1708247.08	1596654.38	111	1706292.74	1606247.74	182	1706458.25	1607341.49
42	1708296.18	1596390.58	112	1706293.78	1606243.72	183	1706463.30	1607346.54
43	1708345.28	1596126.78	113	1706294.82	1606239.70	184	1706468.35	1607351.59
44	1708394.38	1595862.98	114	1706295.86	1606235.68	185	1706473.40	1607356.64
45	1708443.48	1595599.18	115	1706296.90	1606231.66	186	1706478.45	1607361.69
46	1708492.58	1595335.38	116	1706297.94	1606227.64	187	1706483.50	1607366.74
47	1708541.68	1595071.58	117	1706298.98	1606223.62	188	1706488.55	1607371.79
48	1708590.78	1594807.78	118	1706299.02	1606219.60	189	1706493.60	1607376.84
49	1708639.88	1594543.98	119	1706300.06	1606215.58	190	1706498.65	1607381.89
50	1708688.98	1594280.18	120	1706301.10	1606211.56	191	1706503.70	1607386.94
51	1708738.08	1594016.38	121	1706302.14	1606207.54	192	1706508.75	1607391.99
52	1708787.18	1593752.58	122	1706303.18	1606203.52	193	1706513.80	1607397.04
53	1708836.28	1593488.78	123	1706304.22	1606199.50	194	1706518.85	1607402.09
54	1708885.38	1593224.98	124	1706305.26	1606195.48	195	1706523.90	1607407.14
55	1708934.48	1592961.18	125	1706306.30	1606191.46	196	1706528.95	1607412.19
56	1708983.58	1592697.38	126	1706307.34	1606187.44	197	1706534.00	1607417.24
57	1709032.68	1592433.58	127	1706308.38	1606183.42	198	1706539.05	1607422.29
58	1709081.78	1592169.78	128	1706309.42	1606179.40	199	1706544.10	1607427.34
59	1709130.88	1591905.98	129	1706310.46	1606175.38	200	1706549.15	1607432.39
60	1709179.98	1591642.18	130	1706311.50	1606171.36	201	1706554.20	1607437.44
61	1709229.08	1591378.38	131	1706312.54	1606167.34	202	1706559.25	1607442.49
62	1709278.18	1591114.58	132	1706313.58	1606163.32	203	1706564.30	1607447.54
63	1709327.28	1590850.78	133	1706314.62	1606159.30	204	1706569.35	1607452.59
64	1709376.38	1590586.98	134	1706315.66	1606155.28	205	1706574.40	1607457.64
65	1709425.48	1590323.18	135	1706316.70	1606151.26	206	1706579.45	1607462.69
66	1709474.58	1590059.38	136	1706317.74	1606147.24	207	1706584.50	1607467.74
67	1709523.68	1589795.58	137	1706318.78	1606143.22	208	1706589.55	1607472.79
68	1709572.78	1589531.78	138	1706319.82	1606139.20	209	1706594.60	1607477.84
69	1709621.88	1589267.98	139	1706320.86	1606135.18	210	1706599.65	1607482.89
70	1709670.98	1589004.18	140	1706321.90	1606131.16	211	1706604.70	1607487.94

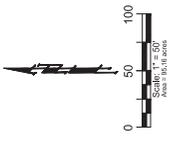


Point	Northing	Easting	Point	Northing	Easting
8020	1706283.08	1607206.28	8029	1706483.46	1607336.44
8021	1706288.13	1606942.48	8030	1706488.51	1607339.49
8022	1706293.18	1606678.68	8031	1706493.56	1607340.54
8023	1706298.23	1606414.88	8032	1706498.61	1607341.59
8024	1706303.28	1606151.08	8033	1706503.66	1607342.64
8025	1706308.33	1605887.28	8034	1706508.71	1607343.69
8026	1706313.38	1605623.48	8035	1706513.76	1607344.74
8027	1706318.43	1605359.68	8036	1706518.81	1607345.79
8028	1706323.48	1605095.88	8037	1706523.86	1607346.84
8029	1706328.53	1604832.08	8038	1706528.91	1607347.89
8030	1706333.58	1604568.28	8039	1706533.96	1607348.94
8031	1706338.63	1604304.48	8040	1706539.01	1607350.00
8032	1706343.68	1604040.68	8041	1706544.06	1607351.05
8033	1706348.73	1603776.88	8042	1706549.11	1607352.10
8034	1706353.78	1603513.08	8043	1706554.16	1607353.15
8035	1706358.83	1603249.28	8044	1706559.21	1607354.20
8036	1706363.88	1602985.48	8045	1706564.26	1607355.25
8037	1706368.93	1602721.68	8046	1706569.31	1607356.30
8038	1706373.98	1602457.88	8047	1706574.36	1607357.35
8039	1706379.03	1602194.08	8048	1706579.41	1607358.40
8040	1706384.08	1601930.28	8049	1706584.46	1607359.45
8041	1706389.13	1601666.48	8050	1706589.51	1607360.50
8042	1706394.18	1601402.68	8051	1706594.56	1607361.55
8043	1706399.23	1601138.88	8052	1706599.61	1607362.60
8044	1706404.28	1600875.08	8053	1706604.66	1607363.65
8045	1706409.33	1600611.28	8054	1706609.71	1607364.70
8046	1706414.38	1600347.48	8055	1706614.76	1607365.75
8047	1706419.43	1600083.68	8056	1706619.81	1607366.80
8048	1706424.48	1599819.88	8057	1706624.86	1607367.85
8049	1706429.53	1599556.08	8058	1706629.91	1607368.90
8050	1706434.58	1599292.28	8059	1706634.96	1607369.95
8051	1706439.63	1599028.48	8060	1706640.01	1607371.00
8052	1706444.68	1598764.68	8061	1706645.06	1607372.05
8053	1706449.73	1598500.88	8062	1706650.11	1607373.10
8054	1706454.78	1598237.08	8063	1706655.16	1607374.15
8055	1706459.83	1597973.28	8064	1706660.21	1607375.20
8056	1706464.88	1597709.48	8065	1706665.26	1607376.25
8057	1706469.93	1597445.68	8066	1706670.31	1607377.30
8058	1706474.98	1597181.88	8067	1706675.36	1607378.35
8059	1706479.03	1596918.08	8068	1706680.41	1607379.40
8060	1706484.08	1596654.28	8069	1706685.46	1607380.45
8061	1706489.13	1596390.48	8070	1706690.51	1607381.50
8062	1706494.18	1596126.68	807		

CRANOR ADDITION MAIZE, SEDGWICK COUNTY, KANSAS



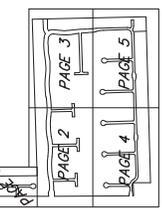
FOR REFERENCE ONLY
NOT TO SCALE



- 1 - 1/2" = 1' SCALE
- 2 - 1/4" = 1' SCALE
- 3 - 1/8" = 1' SCALE
- 4 - 1/16" = 1' SCALE
- 5 - 1/32" = 1' SCALE
- 6 - 1/64" = 1' SCALE
- 7 - 1/128" = 1' SCALE
- 8 - 1/256" = 1' SCALE
- 9 - 1/512" = 1' SCALE
- 10 - 1/1024" = 1' SCALE
- 11 - 1/2048" = 1' SCALE
- 12 - 1/4096" = 1' SCALE
- 13 - 1/8192" = 1' SCALE
- 14 - 1/16384" = 1' SCALE
- 15 - 1/32768" = 1' SCALE
- 16 - 1/65536" = 1' SCALE
- 17 - 1/131072" = 1' SCALE
- 18 - 1/262144" = 1' SCALE
- 19 - 1/524288" = 1' SCALE
- 20 - 1/1048576" = 1' SCALE
- 21 - 1/2097152" = 1' SCALE
- 22 - 1/4194304" = 1' SCALE
- 23 - 1/8388608" = 1' SCALE
- 24 - 1/16777216" = 1' SCALE
- 25 - 1/33554432" = 1' SCALE
- 26 - 1/67108864" = 1' SCALE
- 27 - 1/134217728" = 1' SCALE
- 28 - 1/268435456" = 1' SCALE
- 29 - 1/536870912" = 1' SCALE
- 30 - 1/1073741824" = 1' SCALE
- 31 - 1/2147483648" = 1' SCALE
- 32 - 1/4294967296" = 1' SCALE
- 33 - 1/8589934592" = 1' SCALE
- 34 - 1/17179869184" = 1' SCALE
- 35 - 1/34359738368" = 1' SCALE
- 36 - 1/68719476736" = 1' SCALE
- 37 - 1/137438953472" = 1' SCALE
- 38 - 1/274877906944" = 1' SCALE
- 39 - 1/549755813888" = 1' SCALE
- 40 - 1/1099511627776" = 1' SCALE
- 41 - 1/2199023255552" = 1' SCALE
- 42 - 1/4398046511104" = 1' SCALE
- 43 - 1/8796093022208" = 1' SCALE
- 44 - 1/17592186044416" = 1' SCALE
- 45 - 1/35184372088832" = 1' SCALE
- 46 - 1/70368744177664" = 1' SCALE
- 47 - 1/140737488355328" = 1' SCALE
- 48 - 1/281474976710656" = 1' SCALE
- 49 - 1/562949953421312" = 1' SCALE
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- 53 - 1/9007199254740992" = 1' SCALE
- 54 - 1/18014398509481984" = 1' SCALE
- 55 - 1/36028797018963968" = 1' SCALE
- 56 - 1/72057594037927936" = 1' SCALE
- 57 - 1/144115188075855872" = 1' SCALE
- 58 - 1/288230376151711744" = 1' SCALE
- 59 - 1/576460752303423488" = 1' SCALE
- 60 - 1/1152921504606846976" = 1' SCALE
- 61 - 1/2305843009213693952" = 1' SCALE
- 62 - 1/4611686018427387904" = 1' SCALE
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- 95 - 1/39614081257132168796771911168" = 1' SCALE
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LOT	BLOCK	SECTION	TOWNSHIP	RANGE	MERIDIAN
1-36	A	10000	9	10000	10000
37-72	B	10000	9	10000	10000

MINIMUM RECORDING AND DELIVERIES FOR THIS SUBDIVISION SHALL BE TO THE REGISTRY OF DEEDS, SEDGWICK COUNTY, KANSAS, AND TO THE REGISTER OF DEEDS, SEDGWICK COUNTY, KANSAS. THE REGISTRY OF DEEDS, SEDGWICK COUNTY, KANSAS, SHALL BE THE OFFICIAL RECORDING OFFICE FOR THIS SUBDIVISION. THE REGISTER OF DEEDS, SEDGWICK COUNTY, KANSAS, SHALL BE THE OFFICIAL RECORDING OFFICE FOR THIS SUBDIVISION. THE REGISTRY OF DEEDS, SEDGWICK COUNTY, KANSAS, SHALL BE THE OFFICIAL RECORDING OFFICE FOR THIS SUBDIVISION. THE REGISTER OF DEEDS, SEDGWICK COUNTY, KANSAS, SHALL BE THE OFFICIAL RECORDING OFFICE FOR THIS SUBDIVISION.



SHEET LOCATION

CRANOR ADDITION
BAUGHMAN COMPANY
315 Ellis St. Wichita, KS 67211 316-802-7271
BaughmanCo.com