

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 1-316-219-8921
 City of Wichita Stormwater 1-316-268-4090
 City of Wichita Traffic 1-316-268-4034
 Cox Communications 1-888-249-3530
 Kansas Gas Service 1-888-482-4950
 Every 1-800-544-4857
- 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. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits 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 City Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.
- The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
- All elevations shown are NAVD88. The connecting manhole for Line 1 was designed and built using NGVD29 datum. Flow elevations have been converted to NAVD88.
- All stubs and capped 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 plans. Where the stub is unusable due to elevation grade or alignment, the Contractor shall remove the stub and plug the hole, and reshape the existing manhole invert to provide smooth flow. Where connection to an existing manhole that does not have an existing stub, the Contractor shall core cut into existing manhole wall to make connection using approved water stop gasket, and reshape the existing manhole invert to provide smooth flow. The cost of connect to existing manholes is incidental to the project.
- Contractor shall limit the extent of trench open overnight and weekends to less than 50 feet.
- Contractor shall provide positive drainage away from all manhole covers.
- The Contractor shall prevent any construction debris from entering the existing sanitary sewer during construction.
- The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the contractor's expense.
- Contractor shall grade around exposed manholes at a 1:1 slope. Manholes set lower than existing grade shall have a 9" berm constructed around manhole to prevent infiltration into sanitary sewer system. Cost of dirt, labor, equipment, etc. to be incidental to cost of manhole. Easements shall be graded with the street improvement project as part of the mass grading plan.
- All disturbed areas are to be seeded as follows:
 Seed -- Rye grass; 5 lbs./1000 Sq. Ft.
 All costs associated with seeding including mobilization, preparation of ground, seeding, fertilizing, mulching, etc. shall be included in the L.S. bid item "Seeding".
- All existing and proposed erosion control measures including silt fencing, erosion control mat, straw bales, inlet barriers, and const. entrance shall be maintained throughout construction by the contractor and until project is accepted by the City of Wichita. The on-site engineer shall complete weekly reports on the status of erosion control measures. The contractor shall be required to comply with maintenance and/or replacement of erosion control measures as determined by the on-site engineer until project is accepted by City of Wichita. Maintenance and/or replacement of erosion control measures to be paid by L.S. bid item "Maintain Existing BMPs".
- The developers for this project are Jay W. Russell, P.O. Box 75337, Wichita, KS 67272 (316)722-2417 j@russellco.com and Ritchie Associates, Kevin Mullen, (316)684-7300.
- The Northgate Addition plat was completed in NGVD29 datum. The Northgate 2nd & 4th Addition plats were completed in NAVD88 datum. These plans are in NAVD88 datum. To convert from NGVD29 to NAVD88 add 0.39'.
 The following is a recommendation for construction phasing, but the contractor may build in the order desired as long as the intent is met.
 1) Sanitary sewer
 2) Storm sewer & SWD Line 3
 3) Storm water drain mass grading cuts and fills on the lots listed above.
 4) Water Line
 5) Remaining pond excavation, grading, and storm sewer west of the pond/ditch system.
 6) Paving construction (other contract)
- Excess excavation shall remain on-site and be spread or stockpiled at a location determined by the engineer.

Benchmarks

BM #1: "□" Cut on top of curb adjacent to the SE Cor. Lot 28, Block A, Northgate Addition. Elev. = 1339.43 NAVD88

BM #2: "□" Cut on top of curb, adjacent to the SW Cor. Lot 17, Block D, Northgate Addition. Elev. = 1338.47 NAVD88

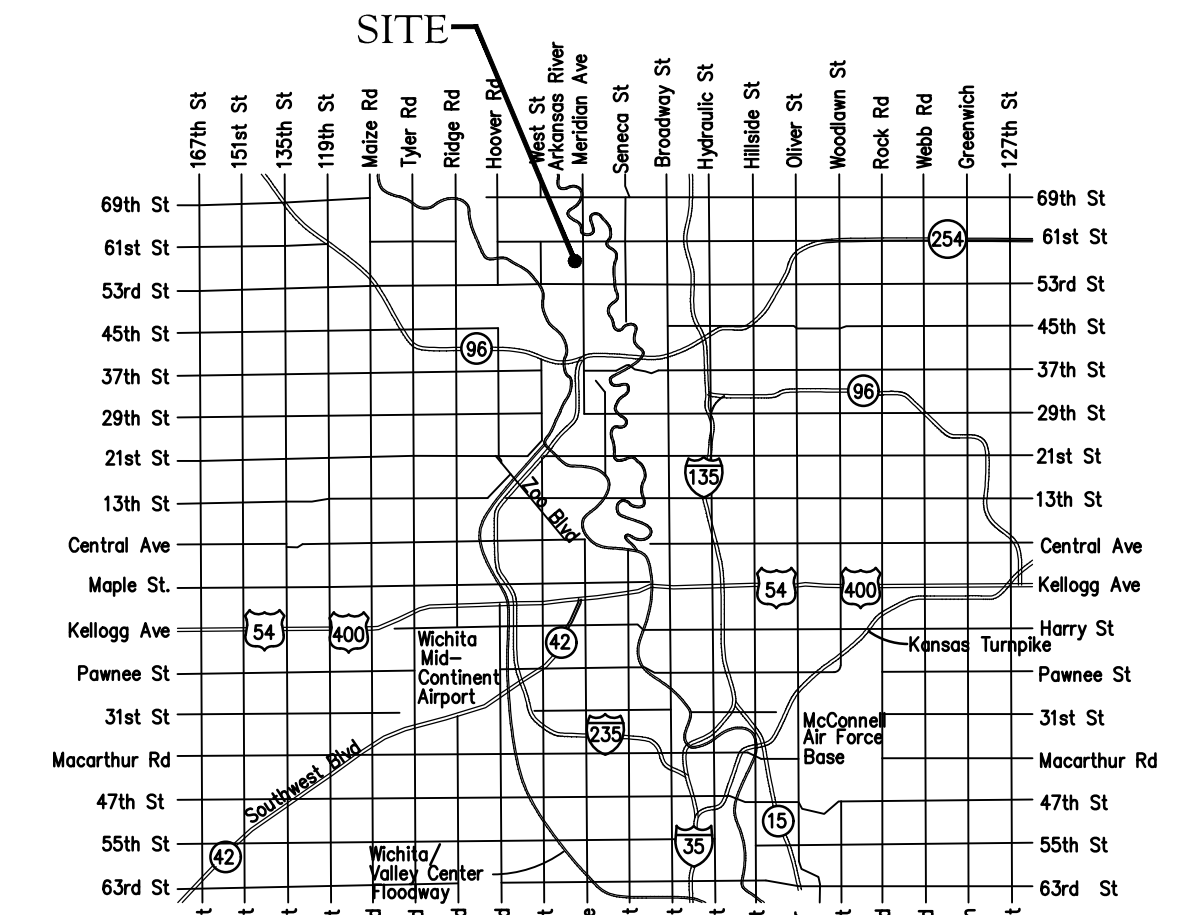
SANITARY SEWER IMPROVEMENTS to serve NORTHGATE ADDITION & NORTHGATE 4th ADD. Ph. 4 CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer

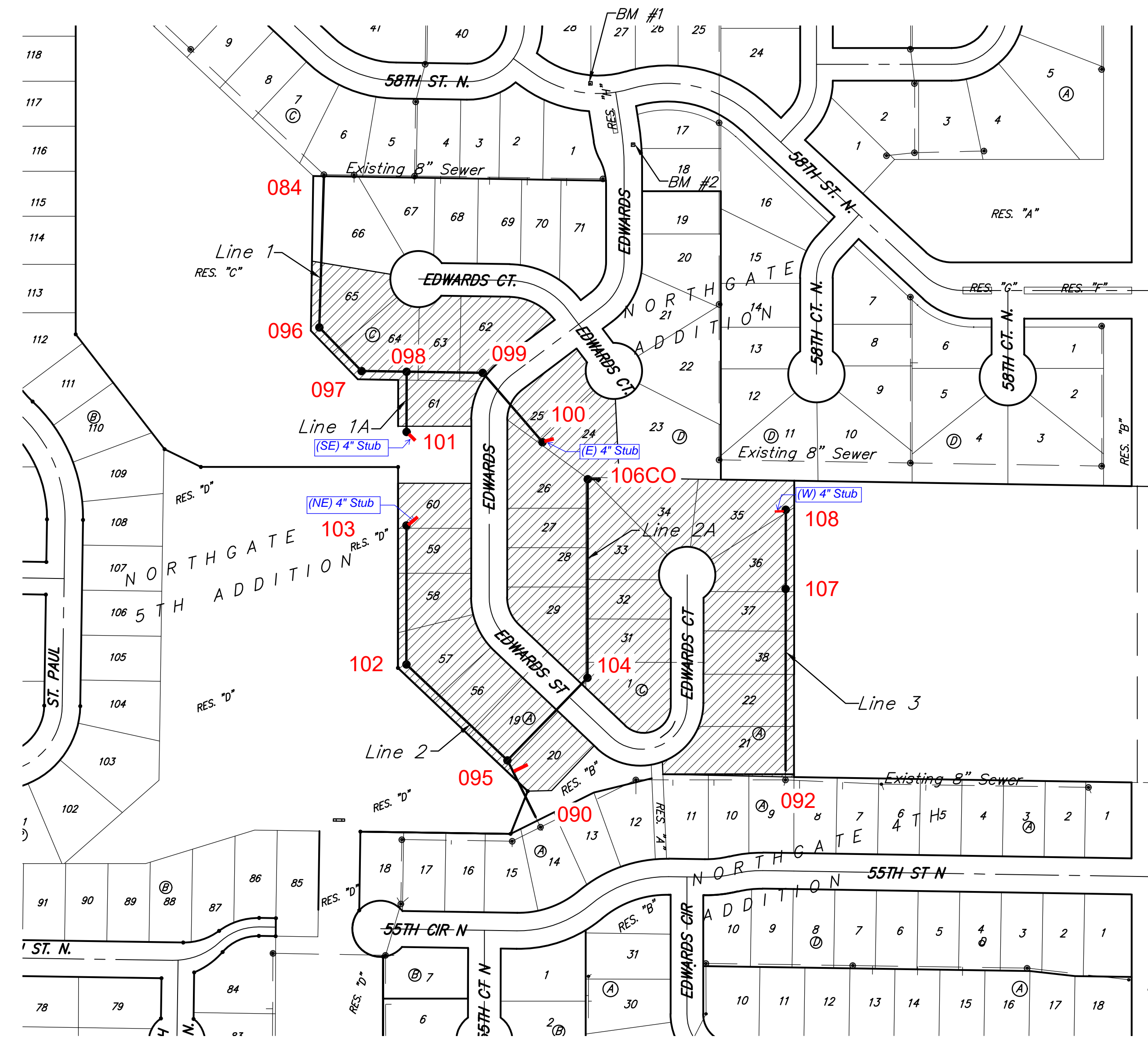
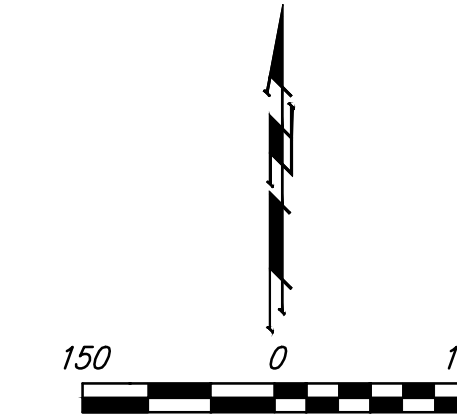
Project Number
468-2020-004507

O.C.A. Number
810119

Apex Excavating - Contractor
 B. Woods - City of Wichita, Field Project Engineer
 R. Canillo - City of Wichita, Inspector
 As-built
 Stubs & Risers
 Release Date (for connection purposes only): 6/11/2021
 Completion Date:
 pdf: 5/26/2021 apr



Vicinity Map



5254A

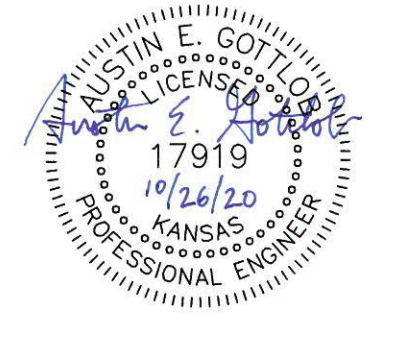
5254B

SS23-10

Benefit District

Sheet Index

Title Sheet	1
Line 1	2
Lines 1A	3
Line 2	4
Line 2A	5
Line 3	6
Erosion Control Plan	7
Precast SS Manhole Detail	8
Manhole Frame & Cover Detail	9
Vertical Riser Detail	10
Erosion Control BMP Details	11-15
Coordinate Sheet	16
Copy of Plat	17-19



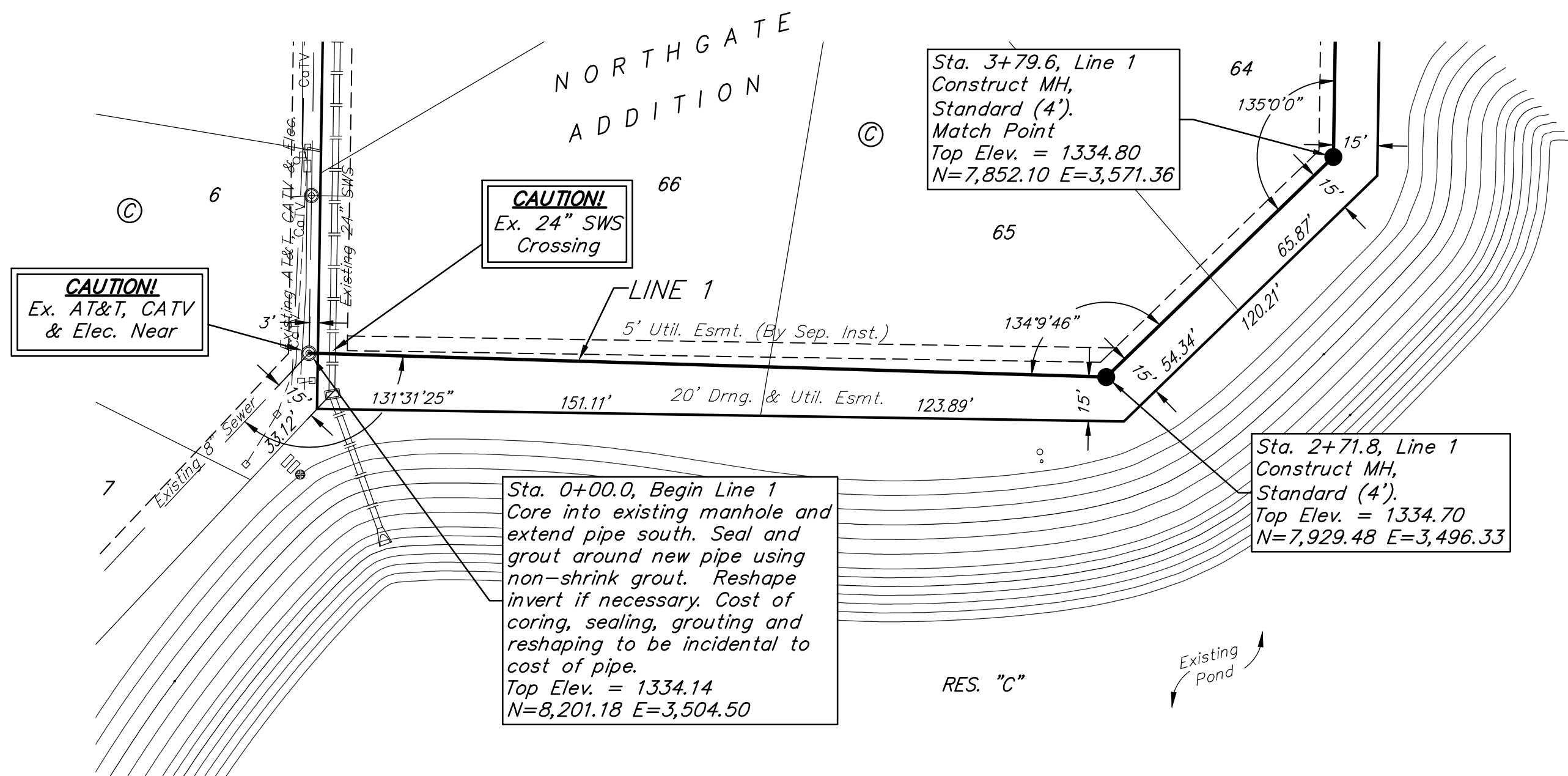
October 2020



Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0143
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

BENCHMARKS:
 BM #1: "□" Cut on top of curb adjacent to the SE Cor. Lot 28, Block A, Northgate Addition. Elev. = 1339.43 NAVD88

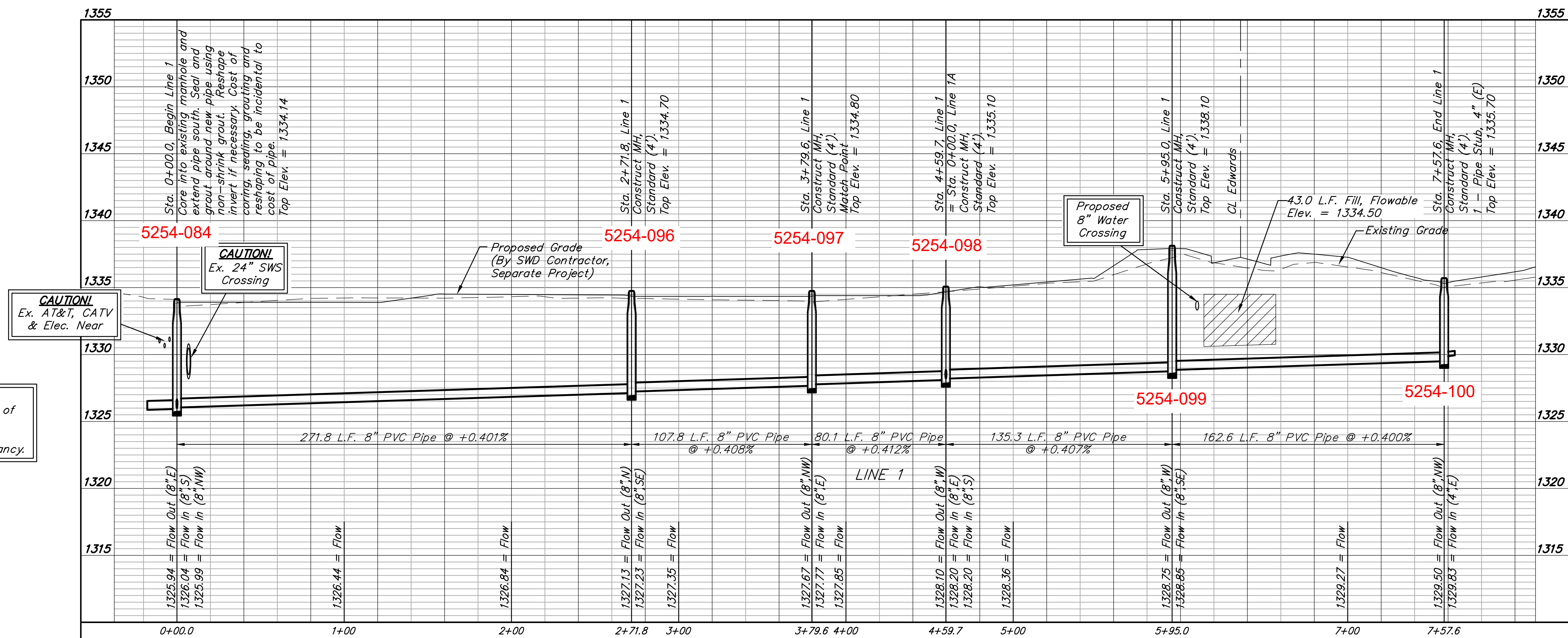
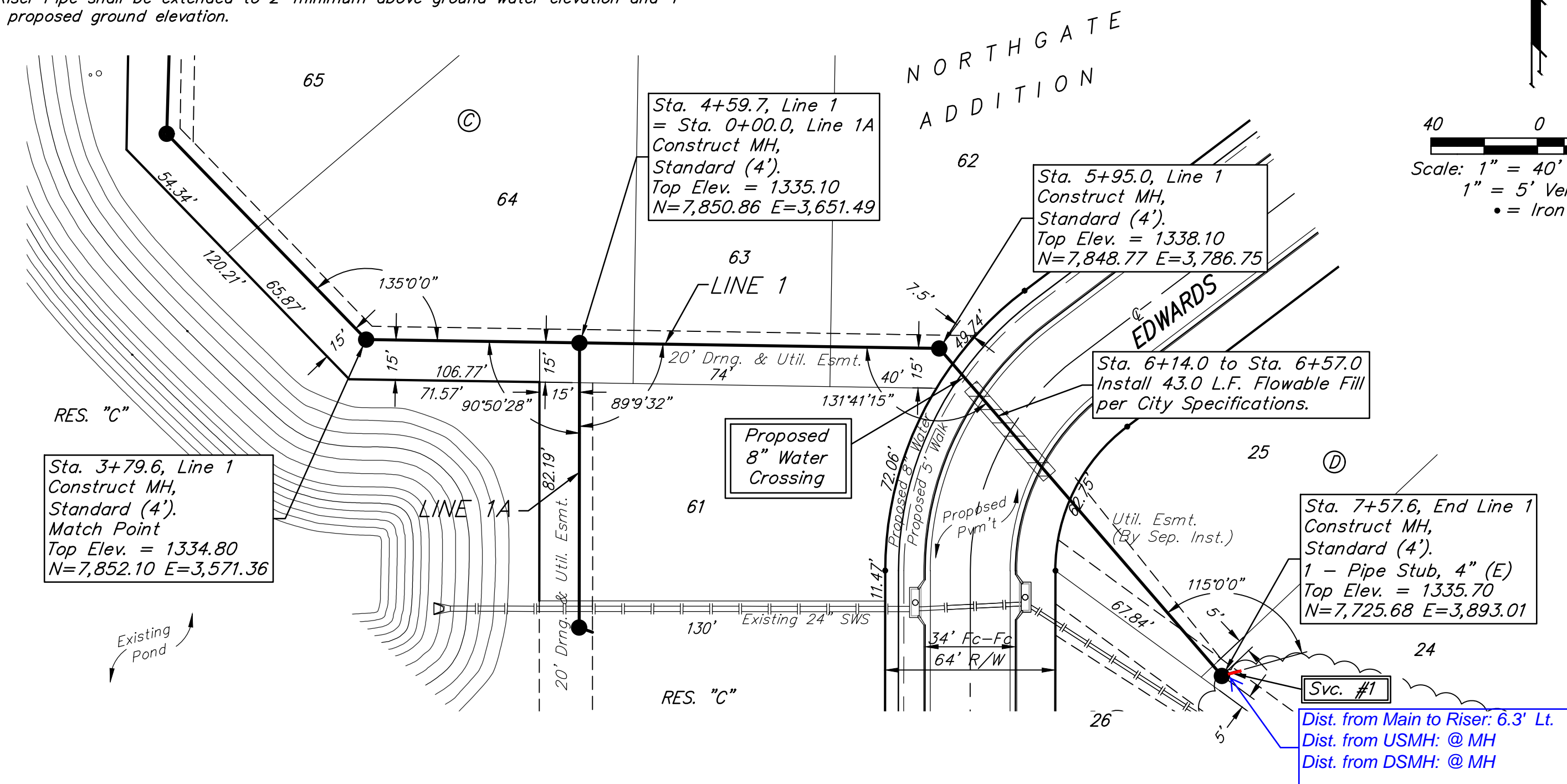
BM #2: "□" Cut on top of curb adjacent to the SW Cor. Lot 17, Block D, Northgate Addition. Elev. = 1338.47 NAVD88



SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			STATION \ DIRECTION	FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.		APPROXIMATE LENGTH 4" PIPE	VERTICAL
1	4" Stub	24	D	1	7+57.6/Lt.	-	6'-4" 6.3'

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



Contractor shall verify elevation and alignment of existing 8" pipe prior to construction and notify Engineer of any discrepancy.



BENCHMARKS:

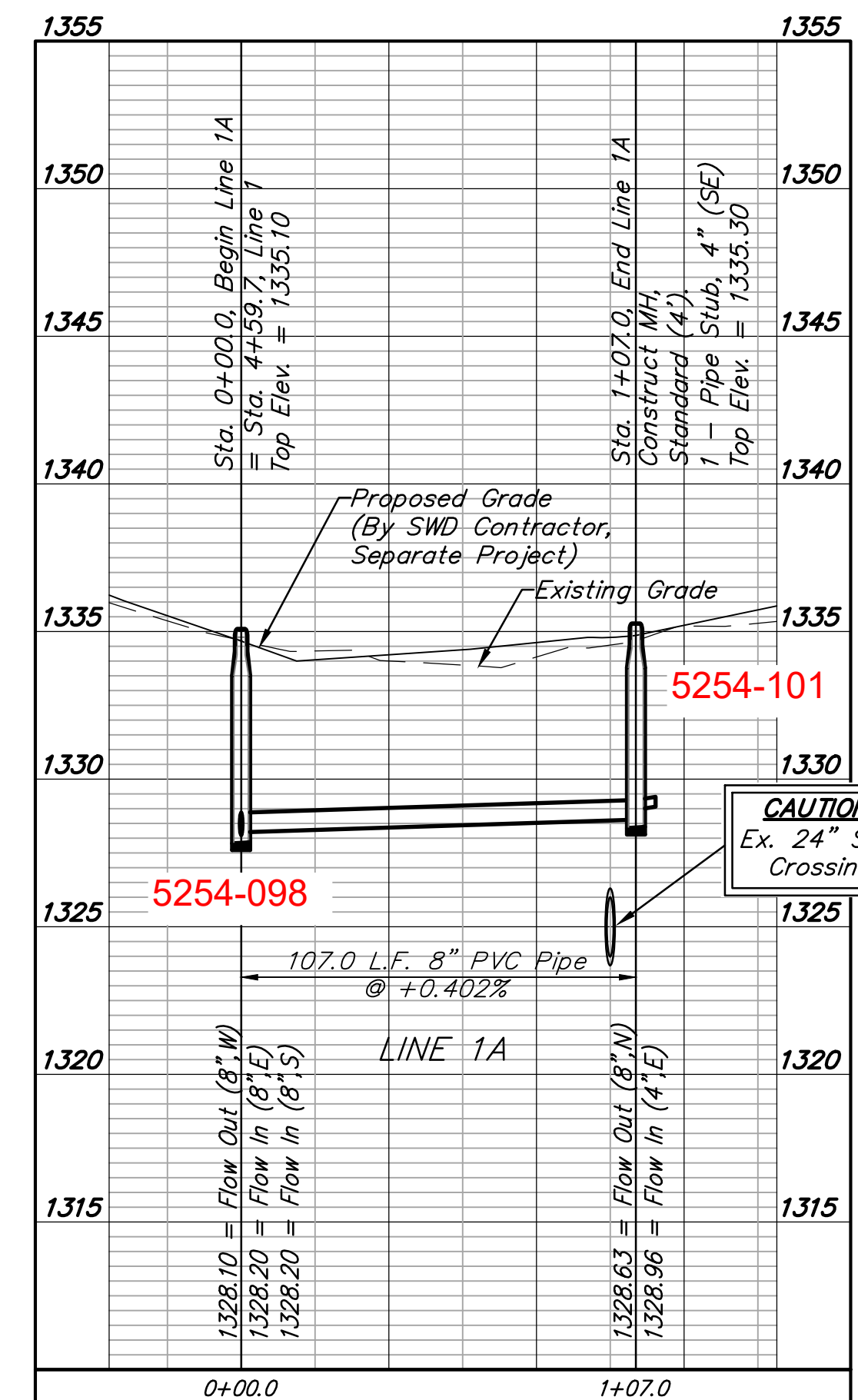
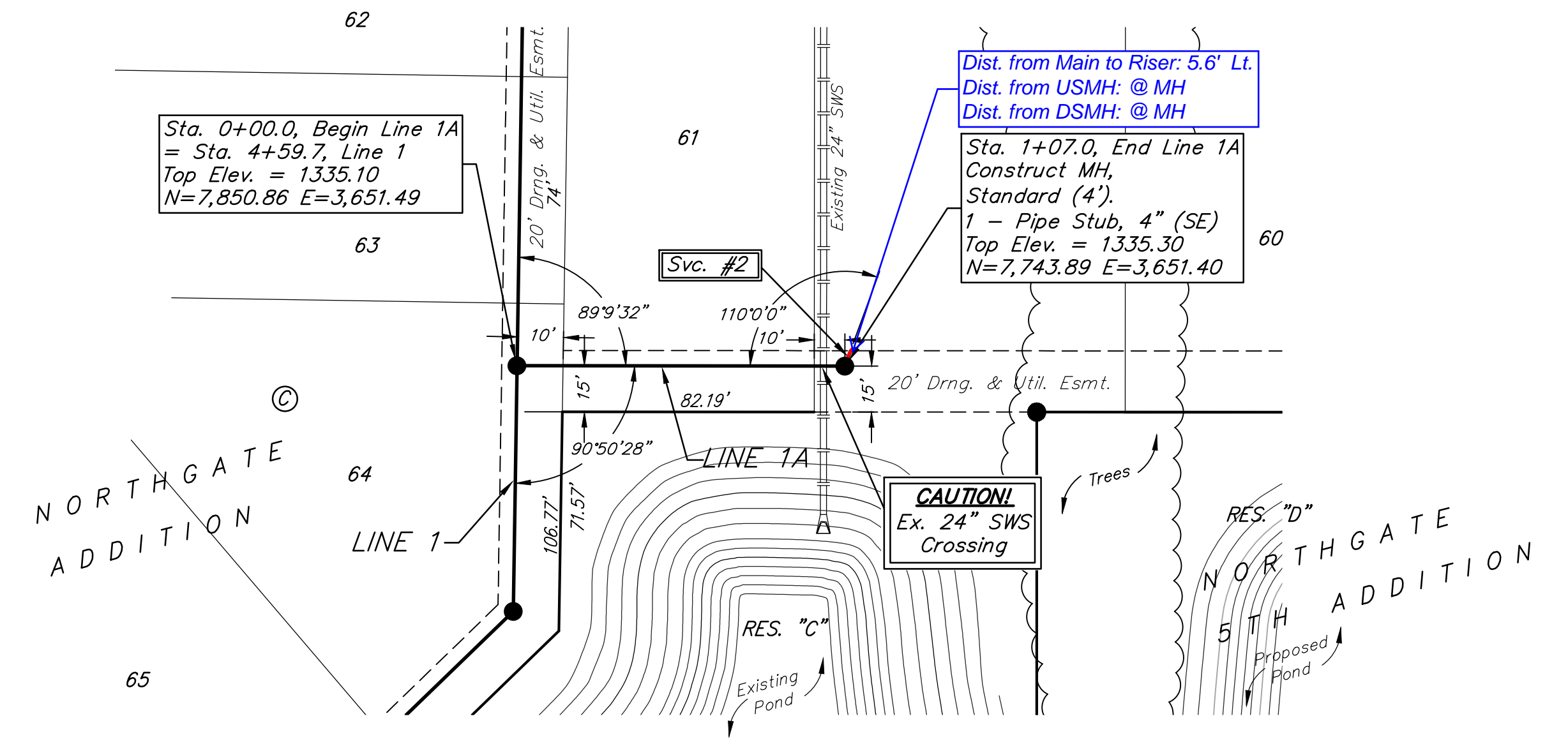
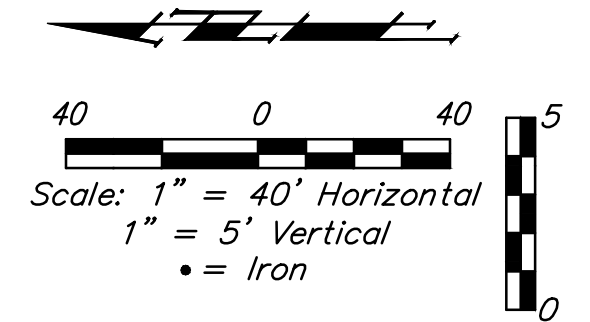
BM #1: "1" Cut on top of curb adjacent to the SE Cor. Lot 28, Block A, Northgate Addition. Elev. = 1339.43 NAVD88

BM #2: "1" Cut on top of curb adjacent to the SW Cor. Lot 17, Block D, Northgate Addition. Elev. = 1338.47 NAVD88

SEWER SERVICE TABLE

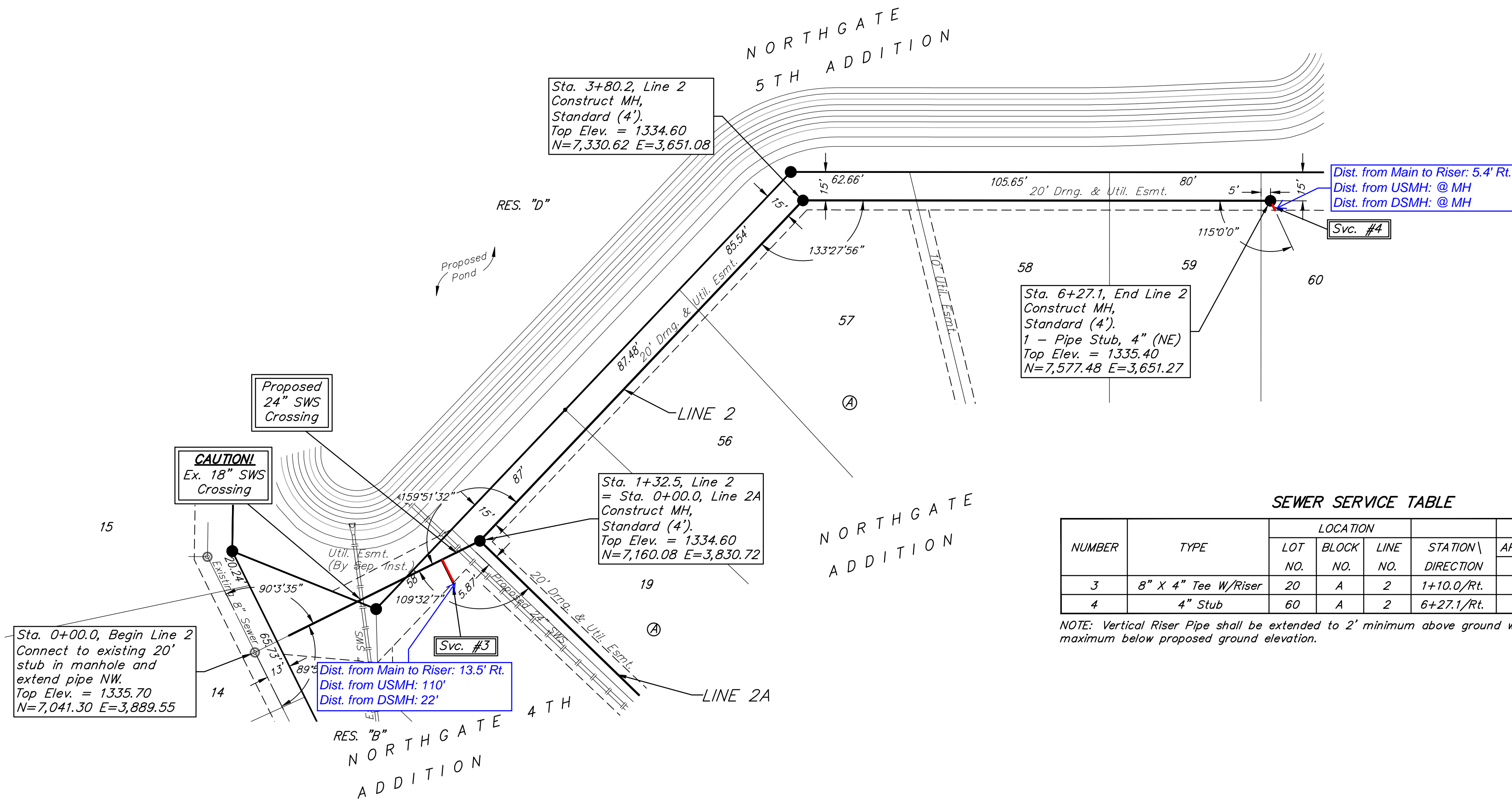
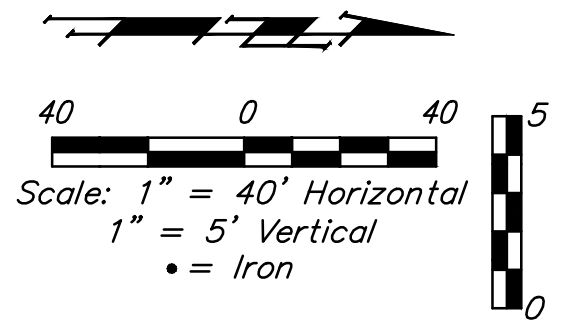
NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO. DIRECTION	APPROXIMATE LENGTH 4" PIPE	
2	4" Stub	Res. C	-	1A 1+07.0/Lt.	VERTICAL	HORIZONTAL
					-	5.3' 5.6'

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



BENCHMARKS:
 BM #1: "□" Cut on top of curb adjacent to the SE Cor. Lot 28, Block A, Northgate Addition. Elev. = 1339.43 NAVD88

BM #2: "□" Cut on top of curb adjacent to the SW Cor. Lot 17, Block D, Northgate Addition. Elev. = 1338.47 NAVD88

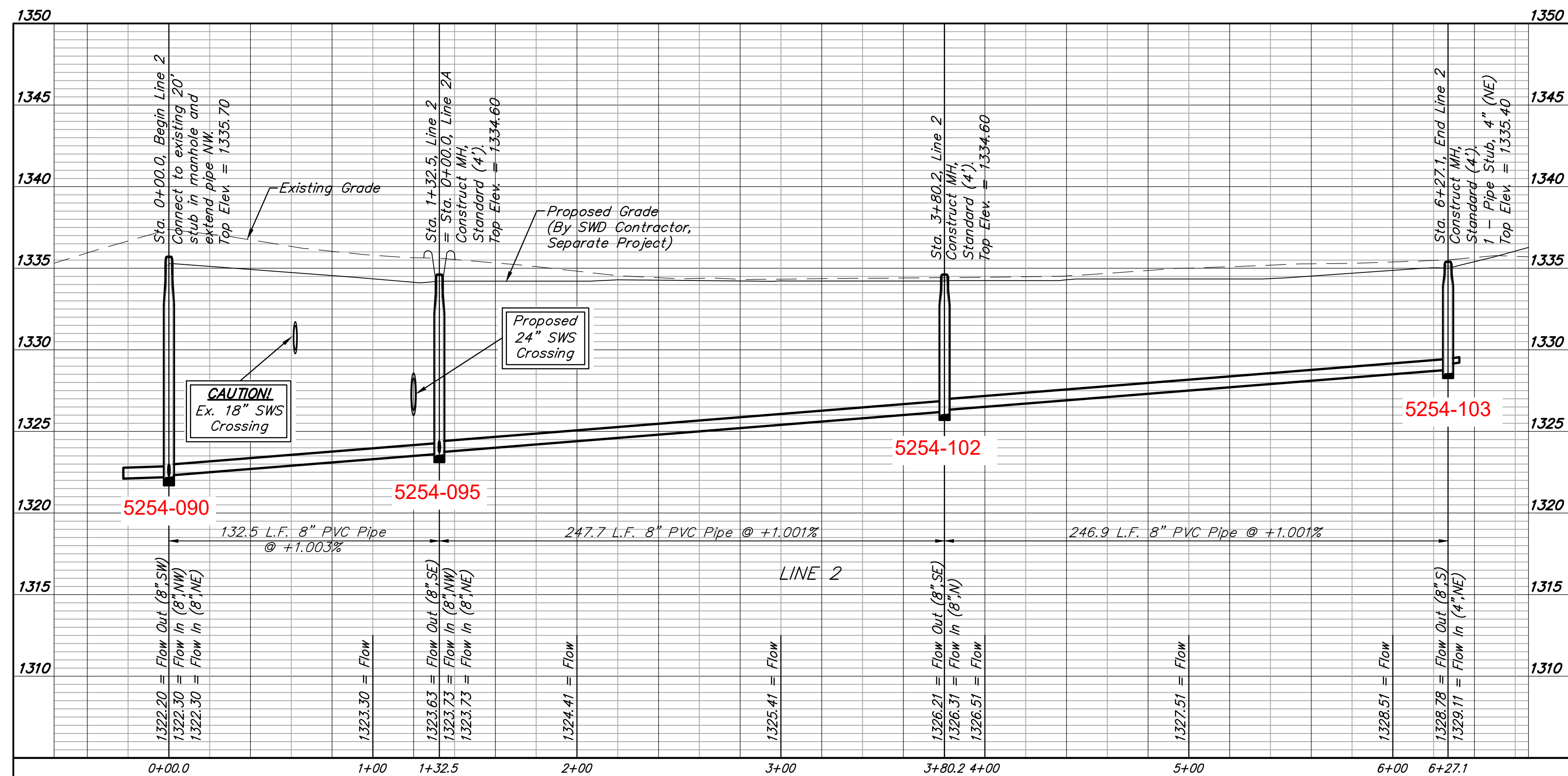


SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL
3	8" X 4" Tee W/Riser	20	A	2	1+10.0/Rt.	6.5'	13.6' 13.5'
4	4" Stub	60	A	2	6+27.1/Rt.	-	5.5' 5.4'

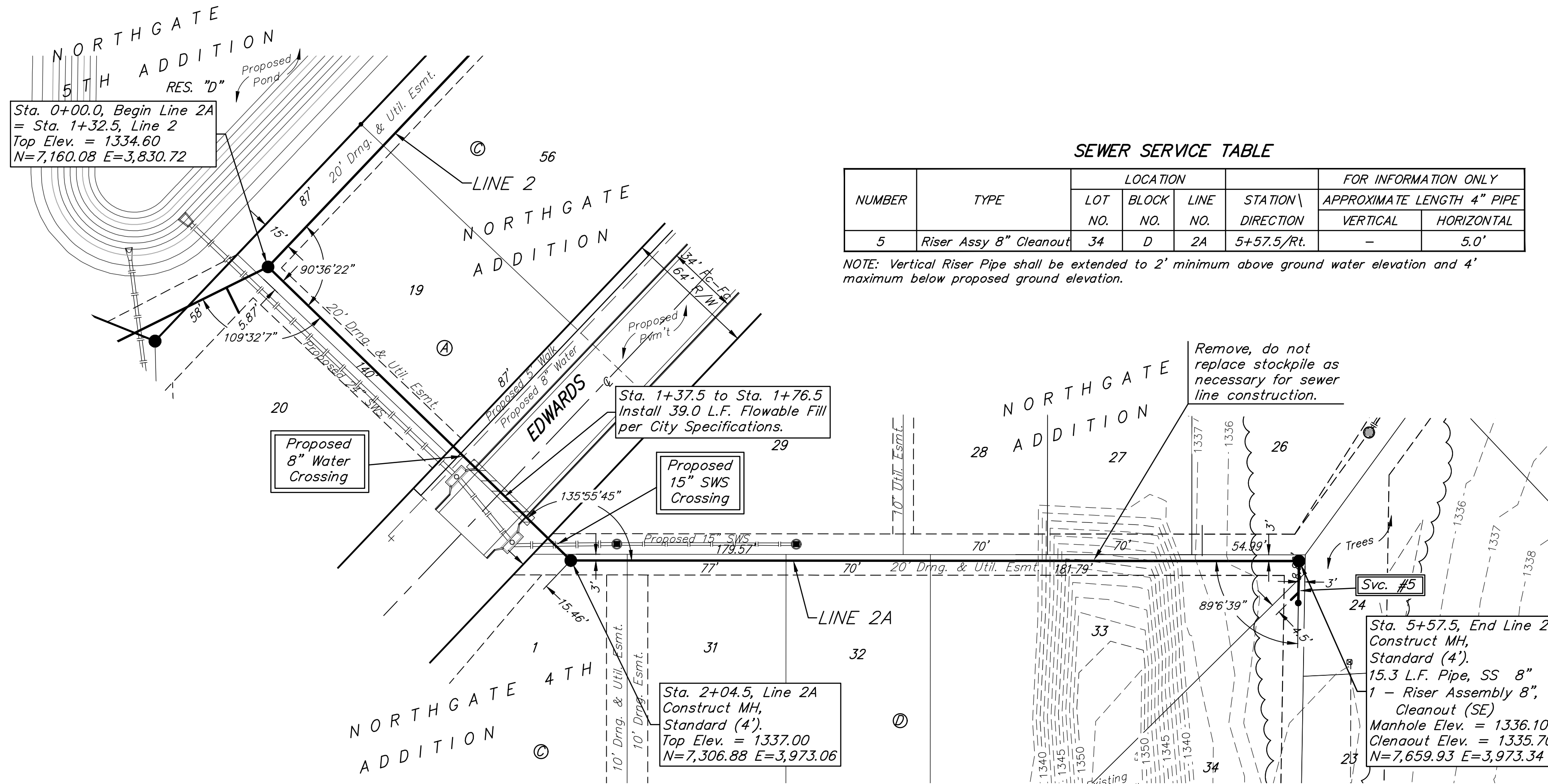
NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

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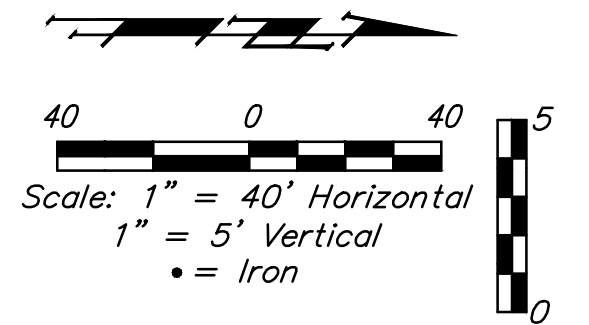
BM #2: "Cut on top of curb adjacent to the SW Cor. Lot 17, Block D, Northgate Addition. Elev. = 1338.47 NAVD88



SEWER SERVICE TABLE

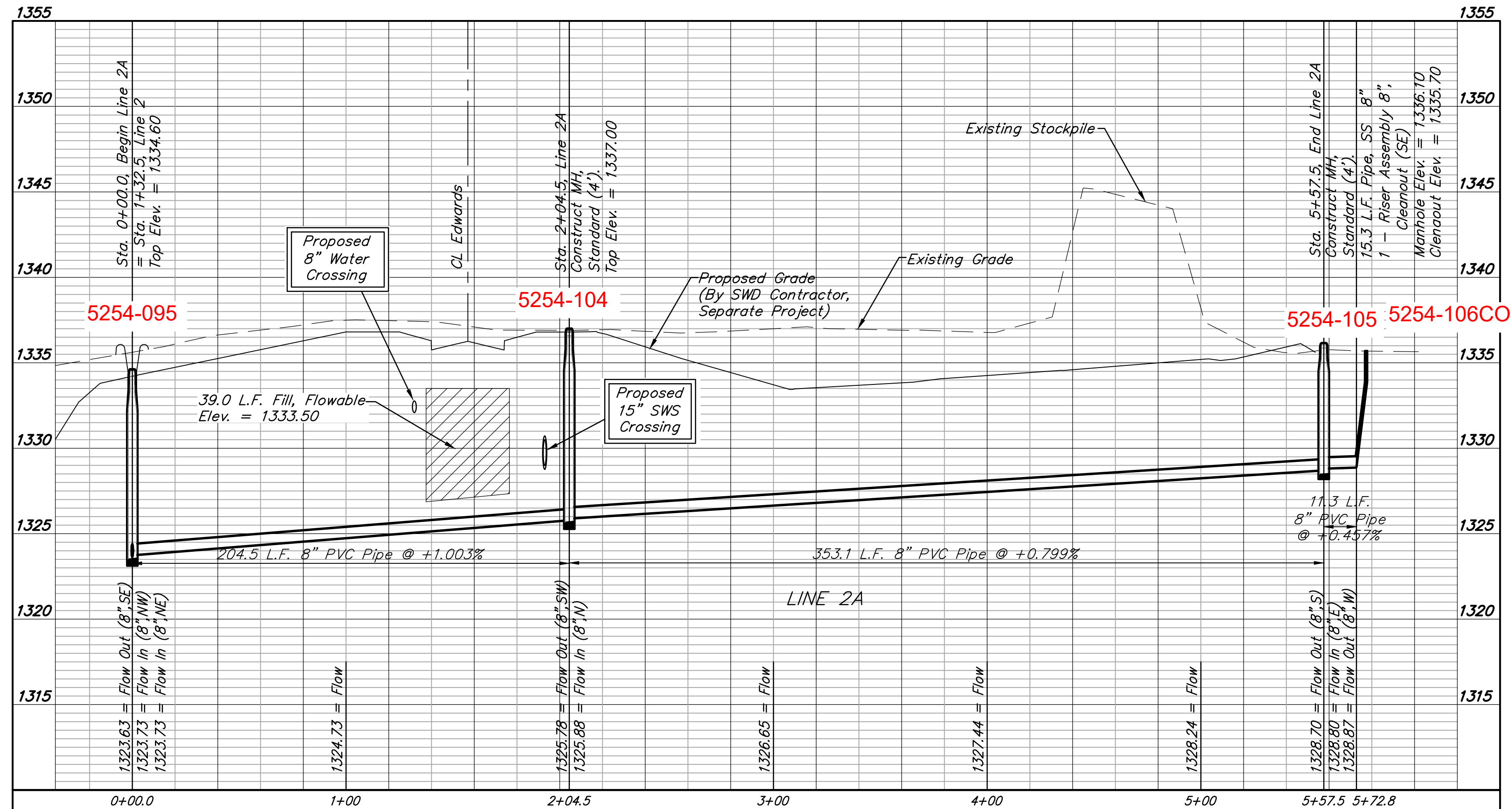
NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION DIRECTION	APPROXIMATE LENGTH 4" PIPE	HORIZONTAL
5	Riser Assy 8" Cleanout	34	D	2A	5+57.5/Rt.	-	5.0'

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



Trees in conflict with sanitary sewer construction to be removed by contractor. To be paid for as lump sum bid item "Site Clearing"

All other trees shall remain and be protected from damage during construction. Overhanging limbs shall be trimmed by the Contractor using a chain saw only as necessary for construction and with approval of the Engineer. Cost of tree trimming to be included in bid item "Site Clearing"



STA 5+72.8
CO



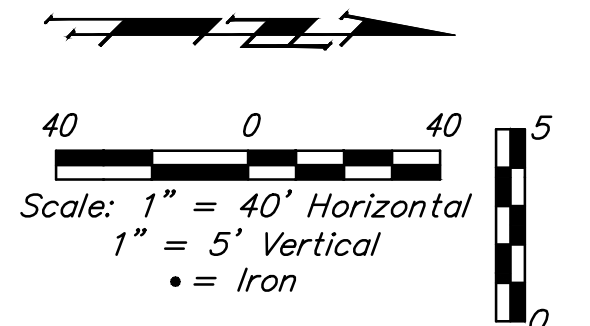
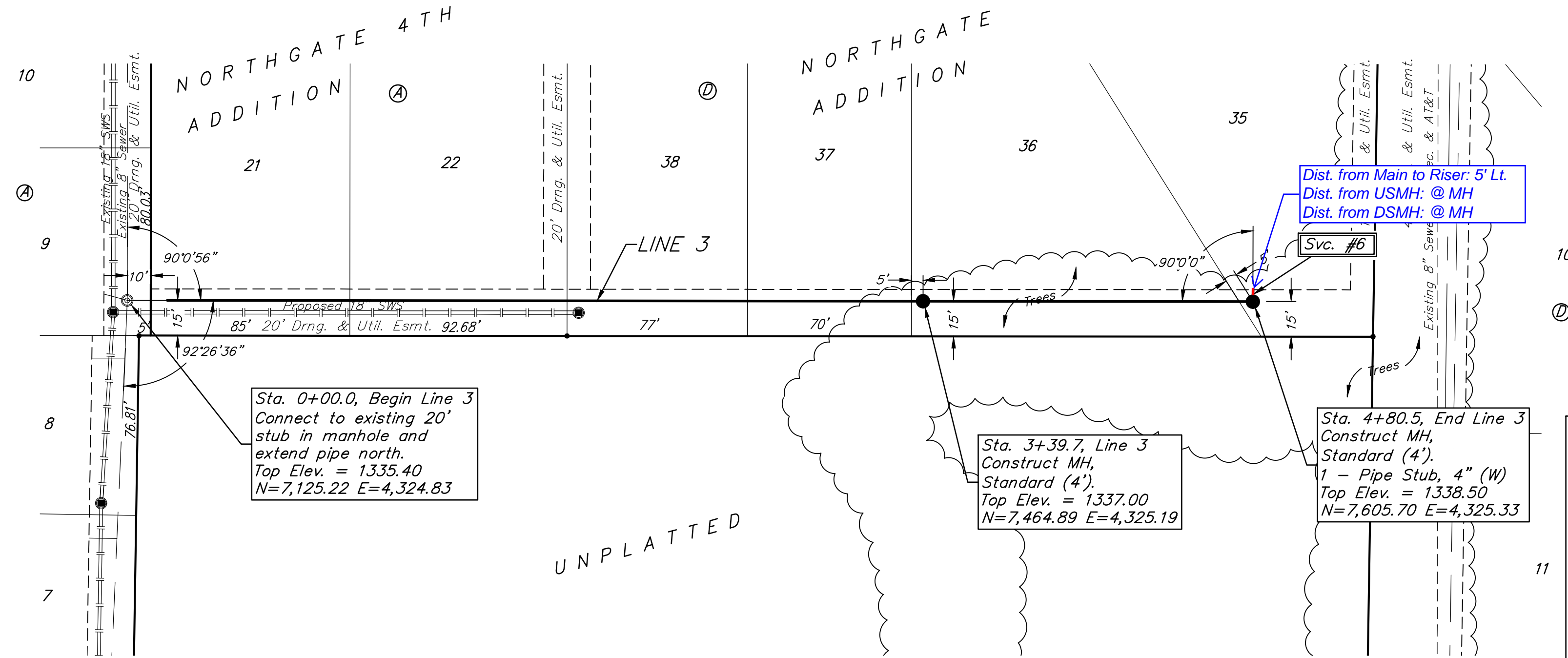
BENCHMARKS:
 BM #1: "Cut on top of curb adjacent to the SE Cor. Lot 28, Block A, Northgate Addition. Elev. = 1339.43 NAVD88

BM #2: "Cut on top of curb adjacent to the SW Cor. Lot 17, Block D, Northgate Addition. Elev. = 1338.47 NAVD88

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL
6	4" Stub	35	D	3	4+80.5/L.t.	-	5.0'

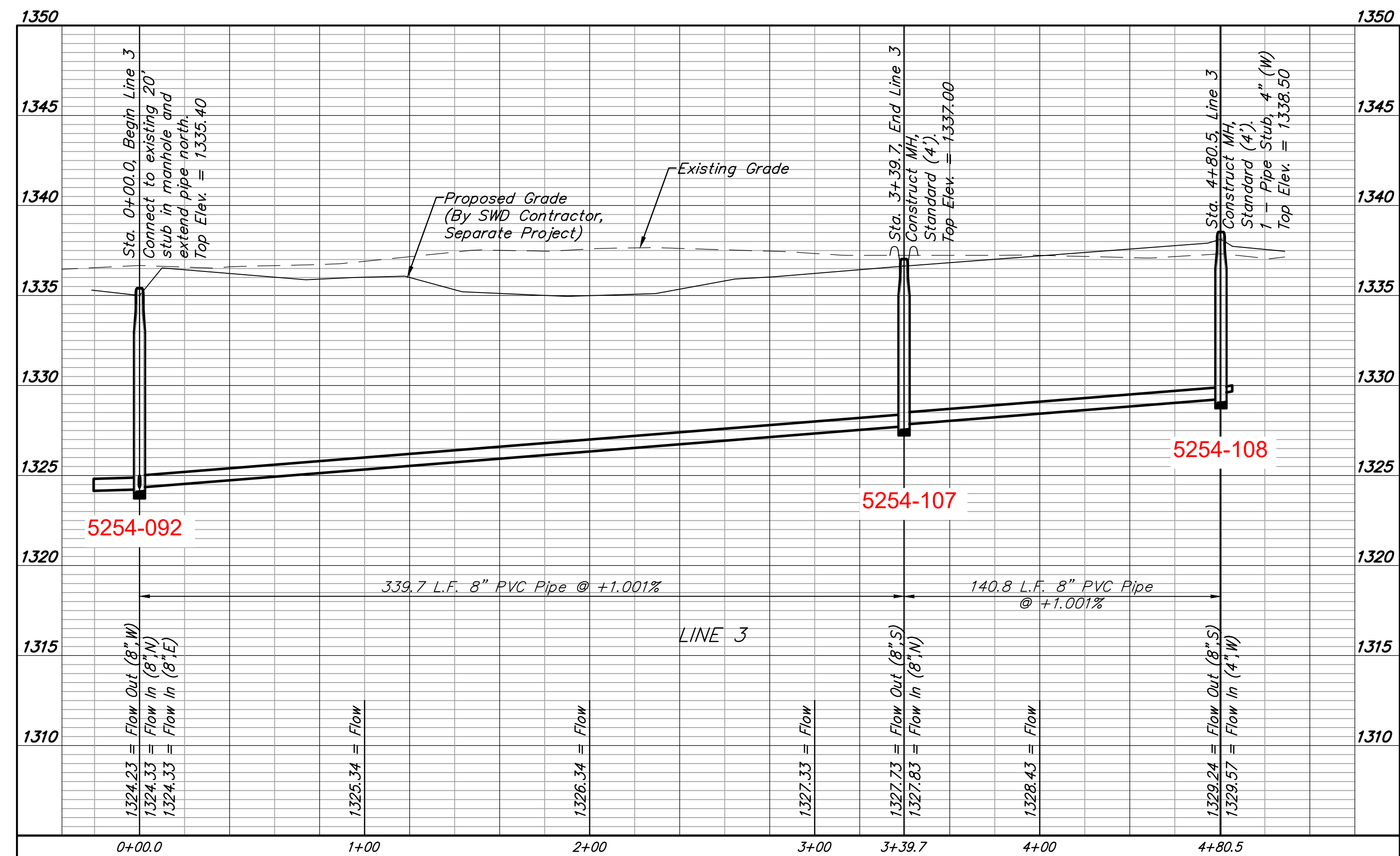
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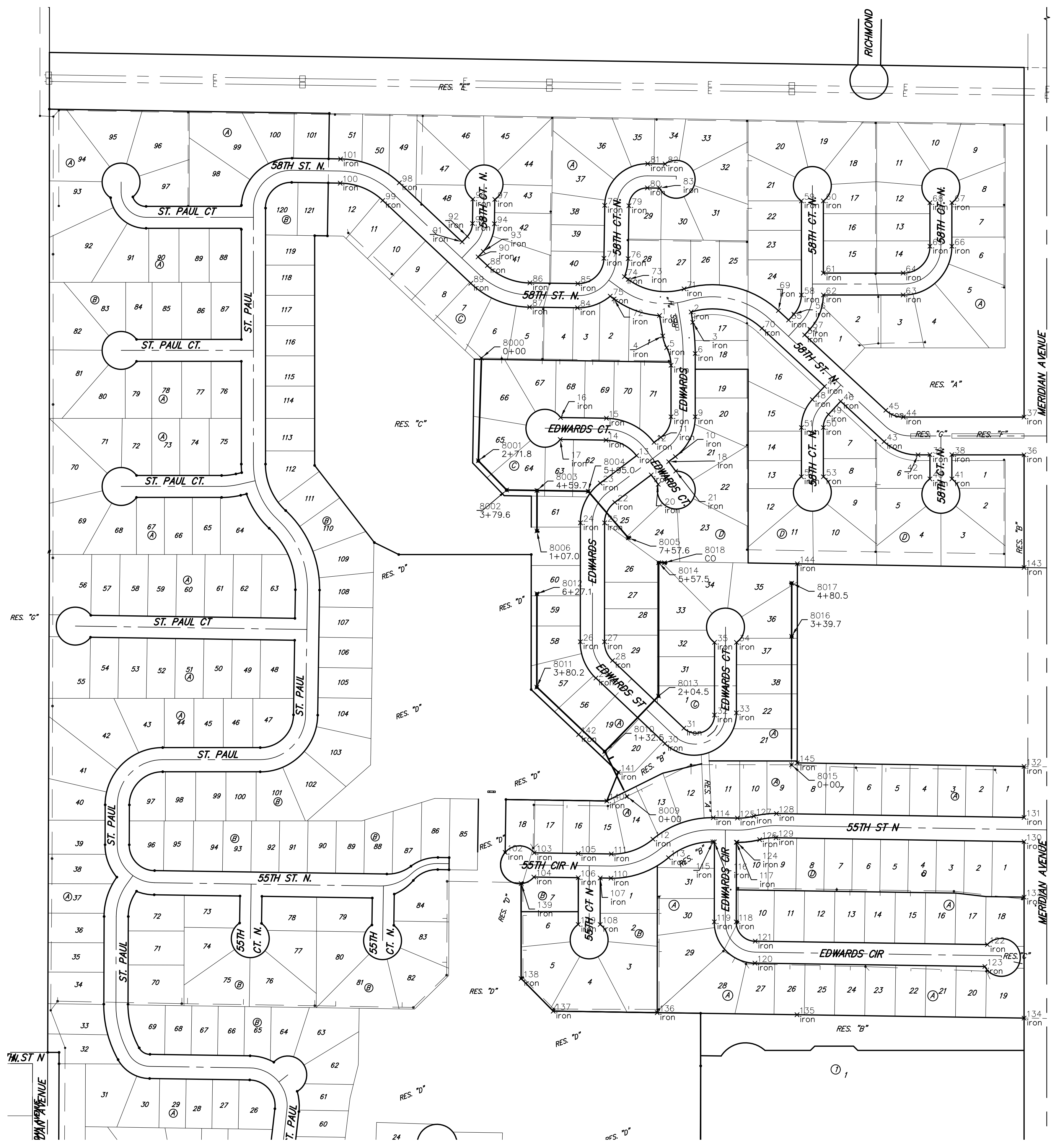


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SANITARY SEWER

Point Table			
Point #	Northing	Easting	Raw Description
8000	8201.18	3504.50	0+00
8001	7929.48	3496.33	2+71.8
8002	7852.10	3571.36	3+79.6
8003	7850.86	3651.49	4+59.7
8004	7848.77	3786.75	5+95.0
8005	7725.68	3893.01	7+57.6
8006	7743.89	3651.40	1+07.0
8009	7041.30	3889.55	0+00
8010	7160.08	3830.72	1+32.5

Point Table			
Point #	Northing	Easting	Raw Description
8011	7330.62	3651.08	3+80.2
8012	7577.48	3651.27	6+27.1
8013	7306.88	3973.06	2+04.5
8014	7659.93	3973.34	5+57.5
8015	7125.22	4324.83	0+00
8016	7464.89	4325.19	3+39.7
8017	7605.70	4325.33	4+80.5
8018	7659.68	3988.64	CO

IRONS

Point Table			
Point #	Northing	Easting	Raw Description
1	8313.71	3975.72	iron
2	8323.13	4059.27	iron
3	8295.92	4063.55	iron
4	8259.76	3984.21	iron
5	8228.72	3994.50	iron
6	8213.23	4070.01	iron
7	8182.14	4006.01	iron
8	8045.80	4006.01	iron
9	8045.80	4070.01	iron
10	7940.51	4017.61	iron
11	7991.56	3979.02	iron
12	7978.09	3961.19	iron
13	7943.11	3914.93	iron
14	7984.05	3834.22	iron
15	8042.05	3835.12	iron
16	8043.92	3713.86	iron
17	7985.93	3712.96	iron
18	7927.03	3999.79	iron
19	7892.06	3953.52	iron
20	7867.20	3972.31	iron
21	7902.17	4018.58	iron
22	7819.41	3857.41	iron
23	7870.46	3818.82	iron
24	7765.27	3766.42	iron
25	7765.22	3830.42	iron
26	7450.52	3766.17	iron
27	7450.47	3830.17	iron
28	7401.10	3851.36	iron
29	7354.68	3807.29	iron
30	7181.32	3989.92	iron
31	7222.04	4039.98	iron
32	7256.81	4121.02	iron
33	7262.46	4179.03	iron
34	7448.97	4179.17	iron
35	7449.02	4121.17	iron
36	7945.07	4940.01	iron
37	8045.07	4940.01	iron
38	7945.57	4749.01	iron
39	7945.57	4691.01	iron
40	7881.52	4691.01	iron
41	7881.51	4749.01	iron
42	7945.08	4659.42	iron
43	7980.29	4569.67	iron
44	8045.08	4620.60	iron
45	8063.22	4574.36	iron
46	8086.80	4454.80	iron
47	8126.24	4412.27	iron
48	8091.53	4380.08	iron
49	8052.09	4422.61	iron
50	8017.41	4409.01	iron

Point Table			
Point #	Northing	Easting	Raw Description
51	8017.42	4351.01	iron
52	7887.07	4351.01	iron
53	7887.07	4409.01	iron
54	8262.46	4359.49	iron
55	8301.89	4316.96	iron
56	8316.97	4330.95	iron
57	8277.54	4373.48	iron
58	8368.09	4351.00	iron
59	8617.04	4351.01	iron
60	8617.04	4409.01	iron
61	8426.09	4409.00	iron
62	8368.09	4409.00	iron
63	8368.08	4620.02	iron
64	8426.08	4620.02	iron
65	8497.08	4691.02	iron
66	8497.08	4749.02	iron
67	8612.40	4749.03	iron
68	8612.40	4691.03	iron
69	8326.88	4290.02	iron
70	8279.95	4246.50	iron
71	8384.37	4040.70	iron
72	8357.60	3855.38	iron
73	8409.34	3893.05	iron
74	8416.73	3882.90	iron
75	8365.00	3845.22	iron
76	8464.21	3892.52	iron
77	8465.20	3828.53	iron
78	8605.18	3830.70	iron
79	8604.19	3894.69	iron
80	8651.45	3943.42	iron
81	8715.44	3944.41	iron
82	8714.72	3990.53	iron
83	8650.95	3975.67	iron
84	8334.27	3758.50	iron
85	8398.26	3759.49	iron
86	8400.22	3632.77	iron
87	8336.23	3631.78	iron
88	8445.83	3520.26	iron
89	8399.21	3476.41	iron
90	8468.96	3495.67	iron
91	8508.70	3453.42	iron
92	8523.21	3467.07	iron
93	8483.47	3509.32	iron
94	8556.46	3538.91	iron
95	8557.36	3480.91	iron
96	8621.85	3481.91	iron
97	8620.95	3539.90	iron
98	8665.02	3287.22	iron
99	8618.40	3243.37	iron
100	8664.01	3130.87	iron

Point Table			
Point #	Northing	Easting	Raw Description
101	8728.00	3131.85	iron
102	6893.27	3567.27	iron
103	6892.13	3644.10	iron
104	6828.13	3643.15	iron
105	6890.40	3760.74	iron
106	6826.39	3760.69	iron
107	6825.53	3818.69	iron
108	6702.66	3818.59	iron
109	6702.70	3760.59	iron
110	6825.11	3847.10	iron
111	6889.11	3848.05	iron
112	6928.34	3958.08	iron
113	6879.39	3999.31	iron
114	6985.20	4117.81	iron
115	6921.11	4116.85	iron
116	6921.07	4120.77	iron
117	6920.22	4178.76	iron
118	6709.48	4178.60	iron
119	6709.52	4120.60	iron
120	6600.45	4227.98	iron
121	6658.44	4228.84	iron
122	6649.35	4842.93	iron
123	6591.44	4836.30	iron
124	6920.19	4180.59	iron
125	6984.18	4181.61	iron
126	6927.07	4240.47	iron
127	6989.16	4224.97	iron
128	6996.04	4284.85	iron
129	6932.04	4283.83	iron
130	6921.59	4940.00	iron
131	6985.75	4939.94	iron
132	7120.77	4939.94	iron
133	6774.89	4940.00	iron
134	6454.89	4940.00	iron
135	6463.78	4339.42	iron
136	6469.25	3969.51	iron
137	6473.34	3694.40	iron
138	6559.60	3609.48	iron
139	6810.90	3609.67	iron
140	7029.30	3836.15	iron
141	7105.23	3866.72	iron
142	7205.06	3761.56	iron
143	7647.17	4940.00	iron
144	7656.95	4340.34	iron
145	7130.20	4339.92	iron

