

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
Westar Energy	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 NGVD29.

- All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.

- The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the contractor's expense.

- 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".

- All excess excavation shall remain on-site and shall be stockpiled or spread at a location determined by the engineer.

- 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.

- All of 45th St. N. R/W disturbed during construction shall be seeded and mulched as follows:

Seed -- Kansas Premium Fescue Blend; 8 lbs. PLS/1000 Sq. Ft.
Annual Rye grass; 3 lbs./1000 Sq. Ft.
Fertilizer -- 12-24-12 Ratio; 45 Lbs./Ac.
Mulch -- 2 Tons Prairie Hay/Ac.

All other disturbed areas within street R/W and lots 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".

- The developer for this project is Jay W. Russell, P.O. Box 75337, Wichita, KS 67272 (316)722-2417 jwrussell1105@cloud.com

- The storm sewer and grading project is currently under construction. Sequence items #1-#3 below will be installed prior to parallel storm sewer (by others), and may be re-sequenced at Contractor's desire with Engineer's approval. Water line construction to serve Driftwood, Driftwood Ct., and Sunny Cir. will begin at the construction conclusion of items #1-#3 and storm sewer work (by others).

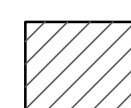
- CONSTRUCTION SEQUENCE:**
- Line 1 Sta. 0+00 to Sta. 11+55.2 & Line 1C
 - Line 5 Sta. 0+00 to Sta. 1+96.5
 - Lines 2 & 2A
 - Line 1A & Line 3
 - All remaining lines

Benchmarks

BM #1: Brass disc at west end of west return at intersection of Driftwood & Driftwood Ct. (Lots 52-62, Block D), Edge Water Addition.
Elev. = 1336.19 NGVD29

BM #2: (Temporary Benchmark) Baughman rebar found at NW corner of Lot 1, Block E, Edge Water Addition.
Elev. = 1334.41 NGVD29

Benefit District



SANITARY SEWER IMPROVEMENTS

to serve

EDGE WATER 3RD ADD. Ph. 1-4

EDGE WATER ADD. Ph. 4

MANDY KAY COMM. ADD.

CITY OF WICHITA, KANSAS

Nowak Construction - Contractor
B. Woods - City of Wichita, Field Project Engineer
S. Stripling - City of Wichita, Inspector
As- built
Stubs & Risers
Release Date (for connection purposes only): 7/17/2019
Completion Date: 2/12/2021
pdf: 10/1/2019 apr

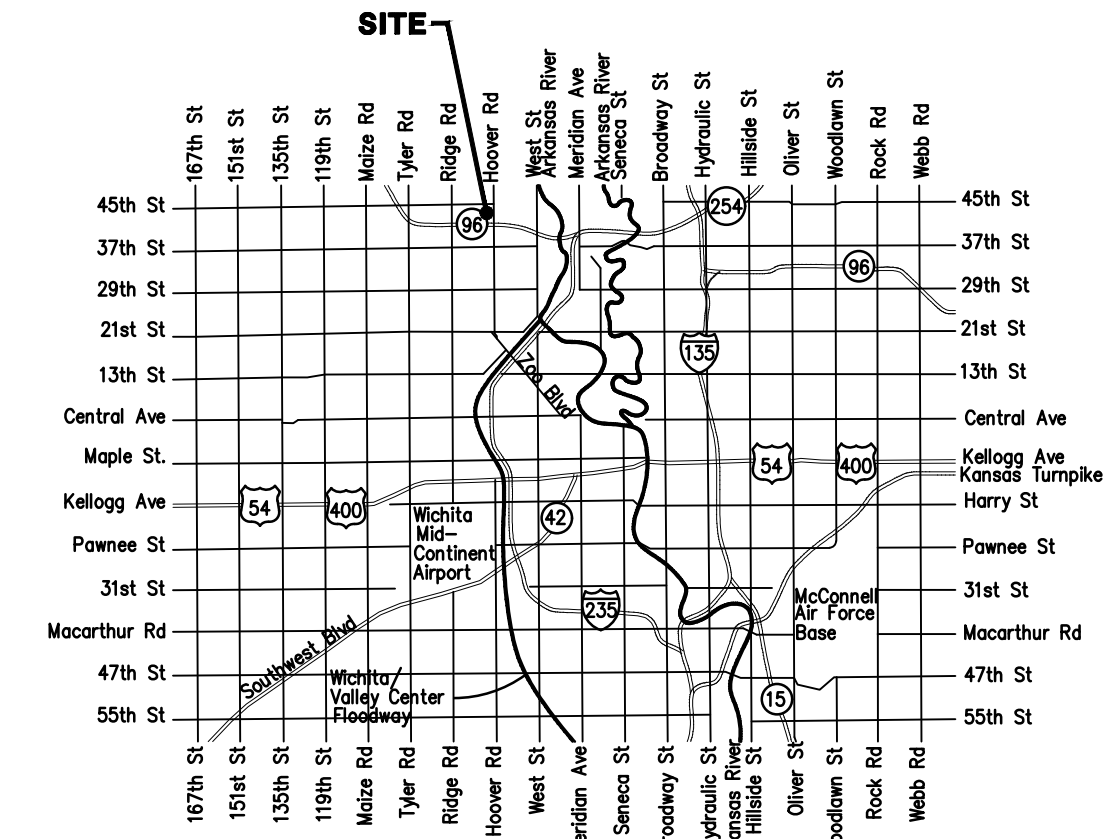
Gary Janzen, P.E. City Engineer

Project Number

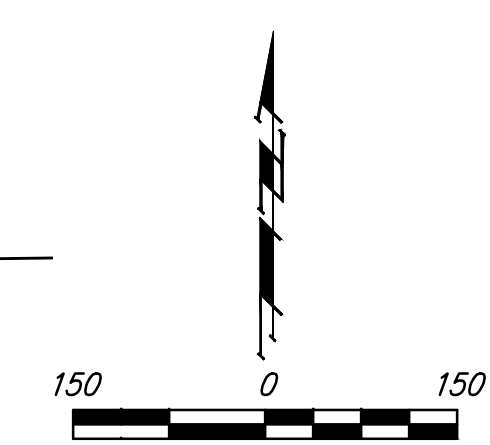
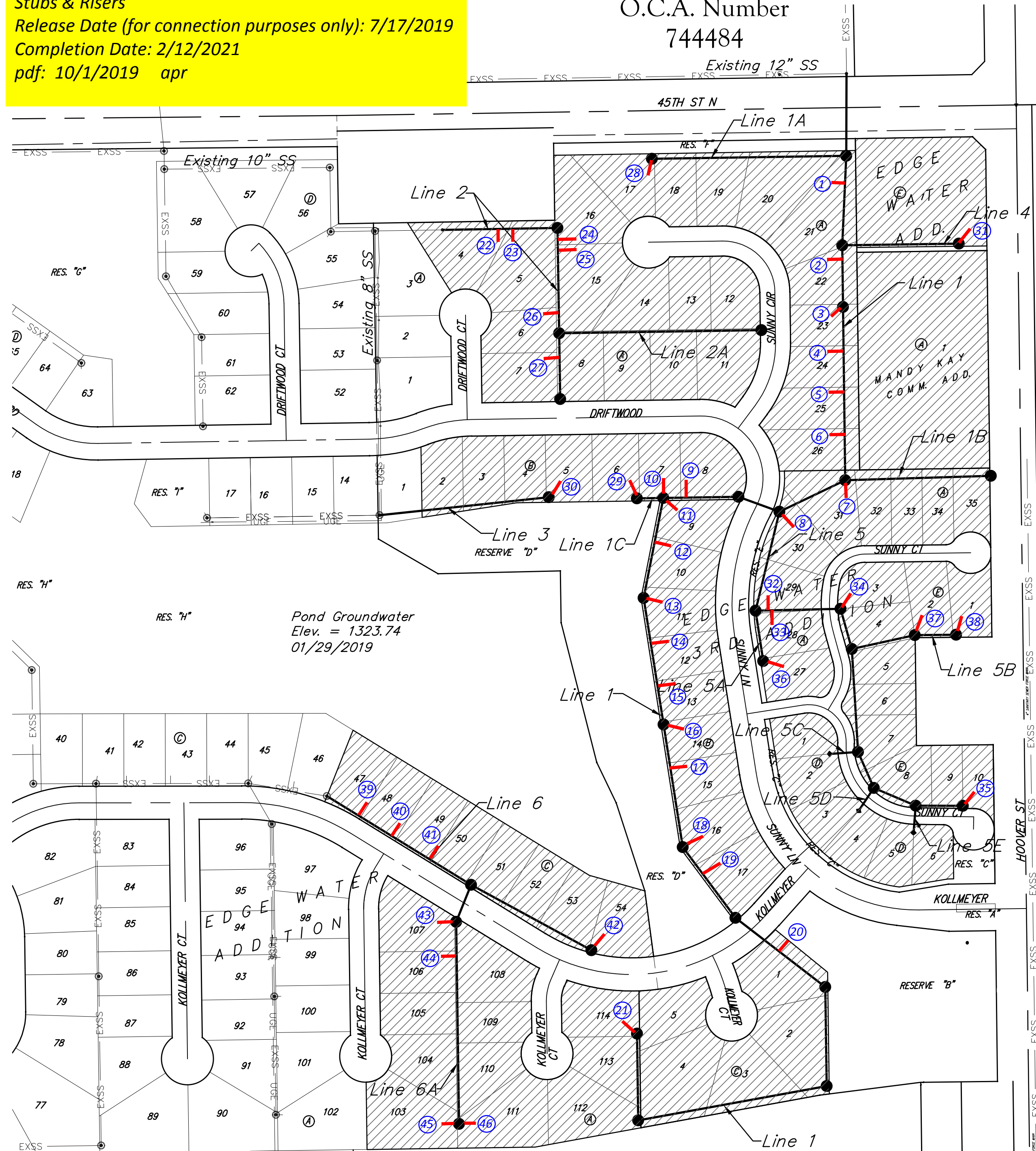
468-84367

O.C.A. Number

744484



Vicinity Map



Sheet Index

Title Sheet	1
Line 1	2-5
Line 2	6
Lines 1A & 2A	7
Lines 1B & 1C	8
Lines 3 & 4	9
Line 5	10
Lines 5A & 5B	11
Lines 5C, 5D & 5E	12
Lines 6	13
Lines 6A	14
Erosion Control Plan	15-16
Traffic Control Plan	17
Precast SS Manhole Detail	18
Manhole Frame & Cover Detail	19
Vertical Riser Detail	20
Cleanout Riser Assy. Detail	21
Erosion Control BMP Details	22-26
Coordinate Sheet	27-28
Copy of Plat	29-30



March 2019



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

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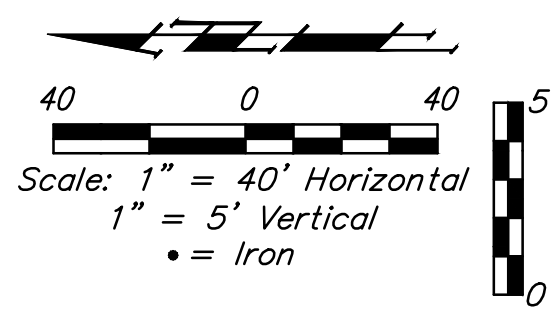
Saw cut, remove and replace existing asphalt pavement, cost incidental to "Site Restoration". The sanitary sewer crossing 45th St. N. may be bored and cased if Contractor desires. All costs for casing pipe, etc. shall be incidental to the "Pipe, SS 8" bid item.

*The contractor shall be required to contact Southern Star and fill out a 151 crossing form prior to construction. Southern Star has approved a 30' exposed span of pipeline for sewer installation. Any additional exposed span width will require approval from Southern Star. During construction, Southern Star will exercise its right to inspect the exposed pipeline coating and and make repairs if necessary. All costs for pipeline coordination, extended time of leaving pipeline exposed, temporary fencing of exposed pipeline, etc. shall be incidental to the Pipe, SS 8" bid item.

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		Distance from Main to Riser (Lt./Rt.)	Distance from		
		LOT NO.	BLOCK NO.	LINE NO.	STATION\ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL		HORIZONTAL	Upstream MH	Downstream MH
1	8" X 4" Tee W/Riser	21	A	1	2+11.7/Rt.	14.5'	4.0'	4' Rt.	120'	53'
2	8" X 4" Tee W/Riser	22	A	1	3+58.2/Rt.	12.5'	7.0'	7' Rt.	92'	27'
3	4" Stub W/Riser	23	A	1	4+50.5/Rt.	14.0'	7.5'	7.5' Rt.	MH stub SW	-
4	8" X 4" Tee W/Riser	24	A	1	5+35.5/Rt.	13.0'	7.0'	7' Rt.	250'	85'
5	8" X 4" Tee W/Riser	25	A	1	6+15.5/Rt.	12.0'	7.0'	7' Rt.	170'	165'
6	8" X 4" Tee W/Riser	26	A	1	6+95.5/Rt.	10.5'	7.0'	7' Rt.	90'	245'
7	4" Stub W/Riser	31	A	1	7+85.2/Rt.	11.0'	8.0'	7' Rt.	MH stub S	-

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 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".

Prior to construction, an on-site meeting will occur with Contractor, Developer, and Engineer to determine limits of tree clearing.

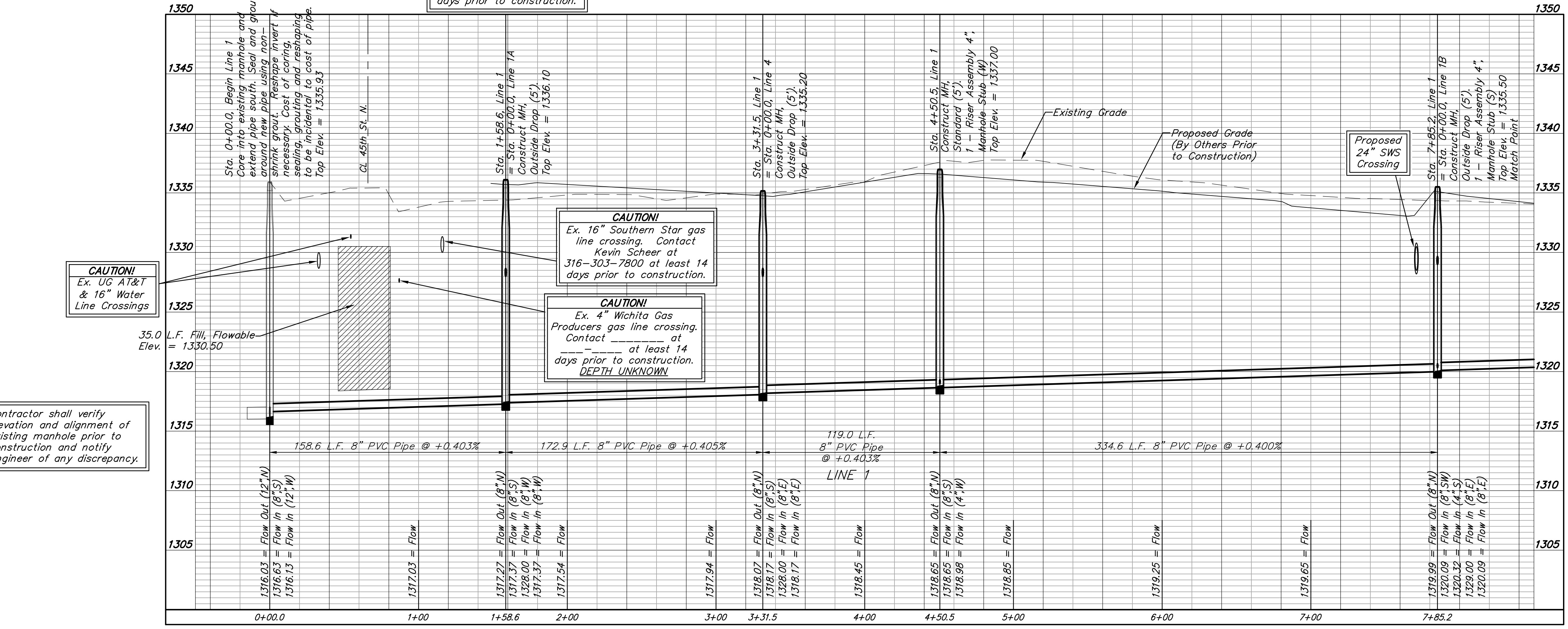
RENNICK COMM. ADDITION

Sta. 0+00.0, Begin Line 1 Core into existing manhole and extend pipe south. Seal and grout around new pipe using non-shrink grout. Reshape invert if necessary. Cost of coring, sealing, grouting and reshaping to be incidental to cost of pipe. Top Elev. = 1335.93
 N=35,179.69 E=50,226.87

Remove & replace existing fence as necessary for construction. Cost incidental to "Site Clearing" and "Site Restoration".

CAUTION!
 Ex. 4" gas line crossing. Ex. 4" gas pipeline at one time owned by Wichita Gas Producers. The current owner of the 4" gas line is unknown. The operational status of the pipeline is also unknown. Contractor to provide temporary pipe support as needed during construction. Cost incidental to the Pipe, 8" SS bid item.

CAUTION!
 Ex. 16" Southern Star gas line crossing.* Contact Kevin Scheer at 316-303-7800 at least 14 days prior to construction.



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

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 17914
 KANSAS
 PROFESSIONAL ENGINEER

EDGE WATER 3RD/EDGE WATER
LINE 1
 SANITARY SEWER IMPROVEMENTS

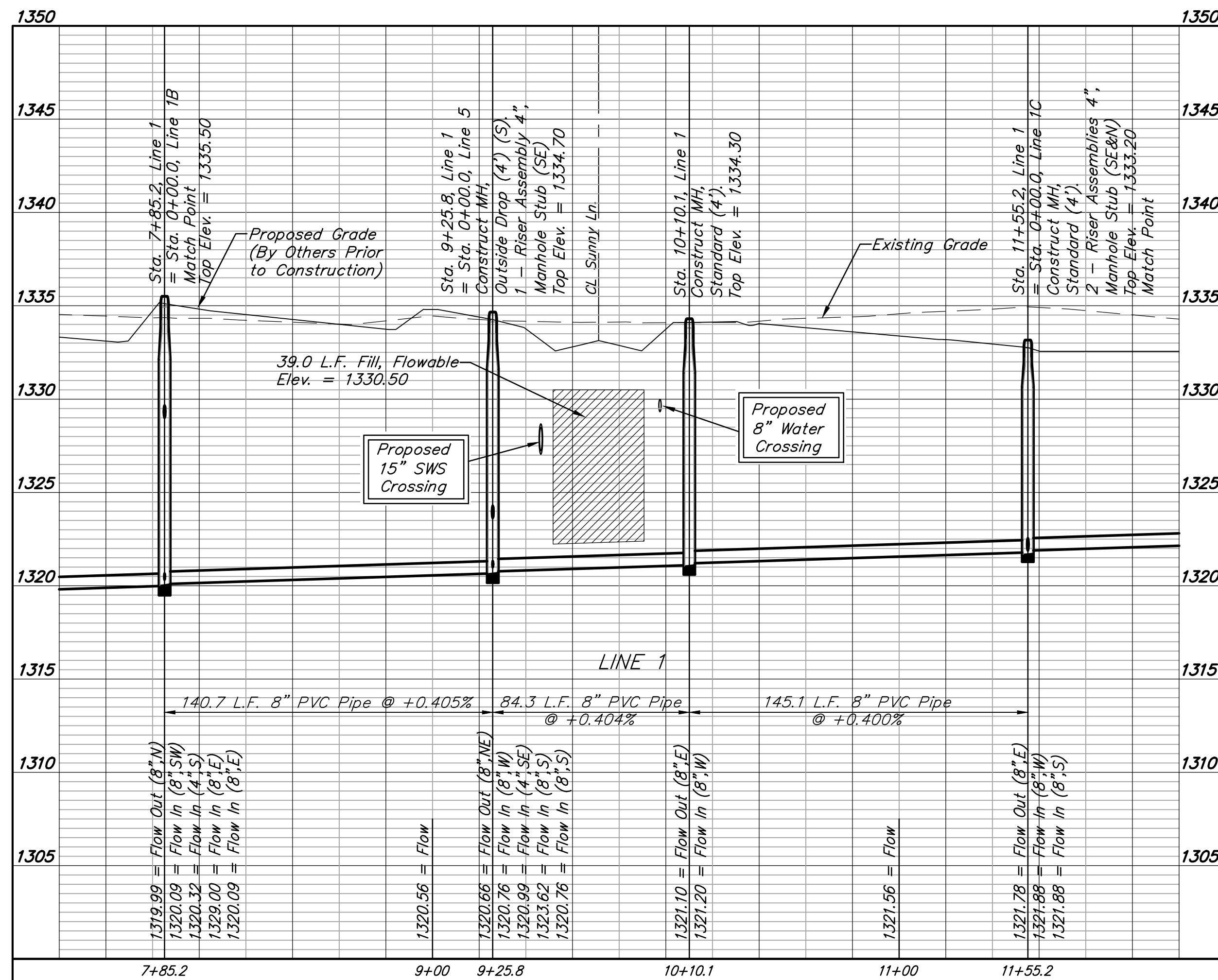
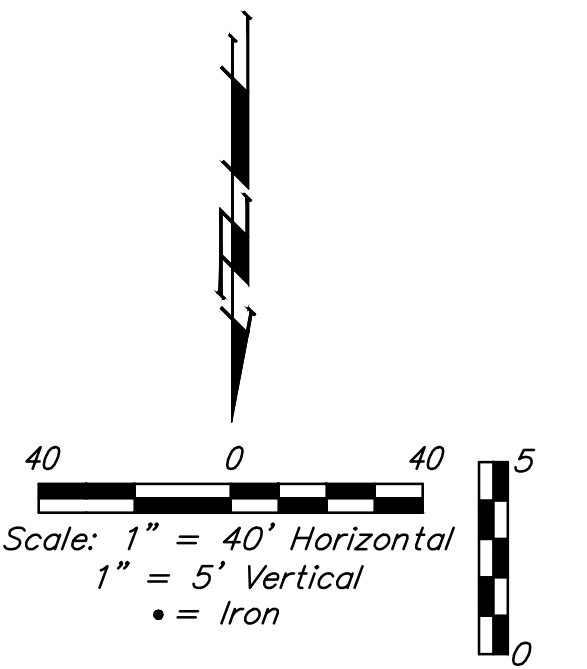
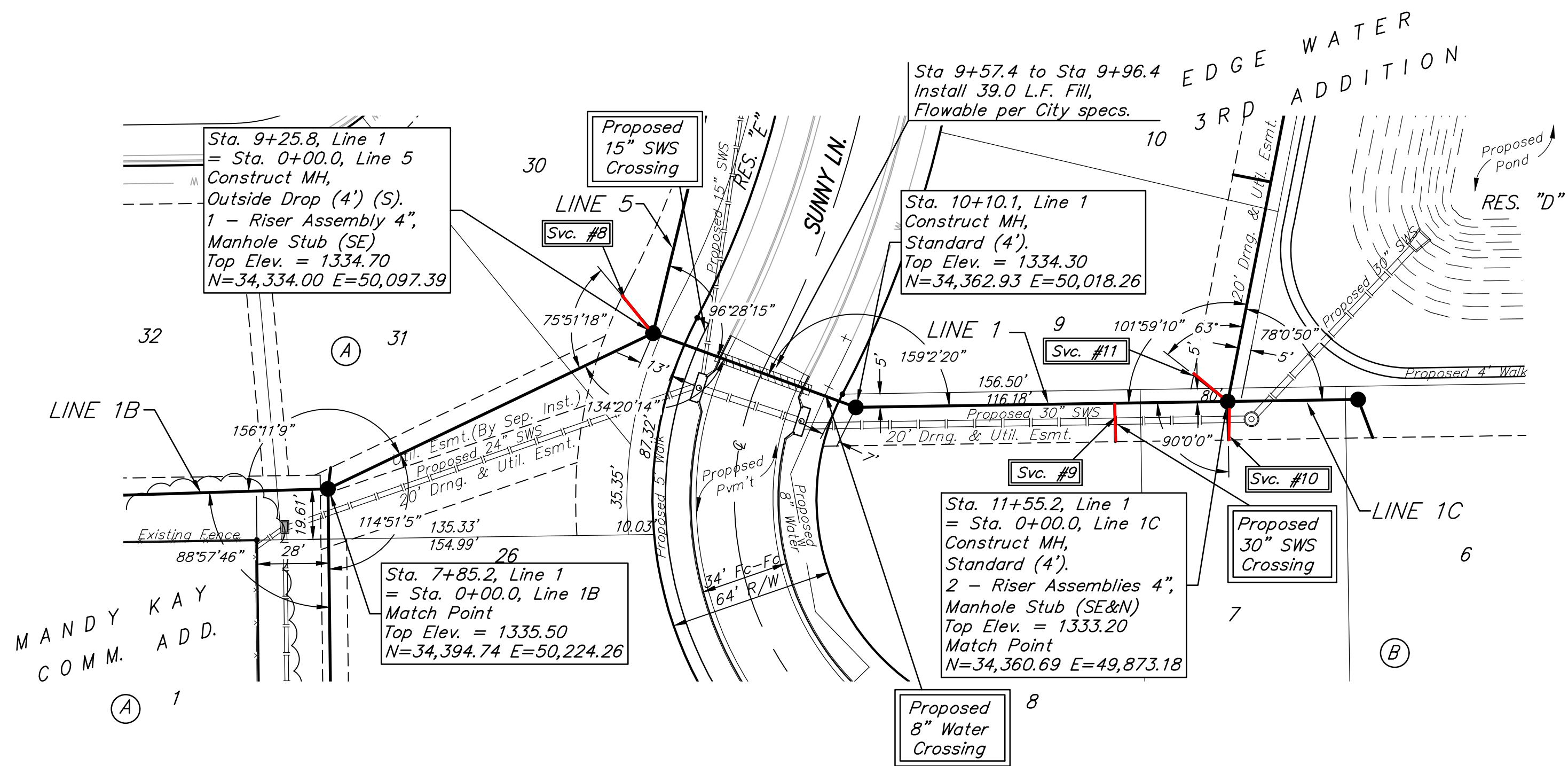
BENCHMARK:
 BM #1: Brass disc at west end of west return at intersection of Driftwood & Driftwood Ct. (Lots 52-62, Block D), Edge Water Addition.
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SEWER SERVICE TABLE

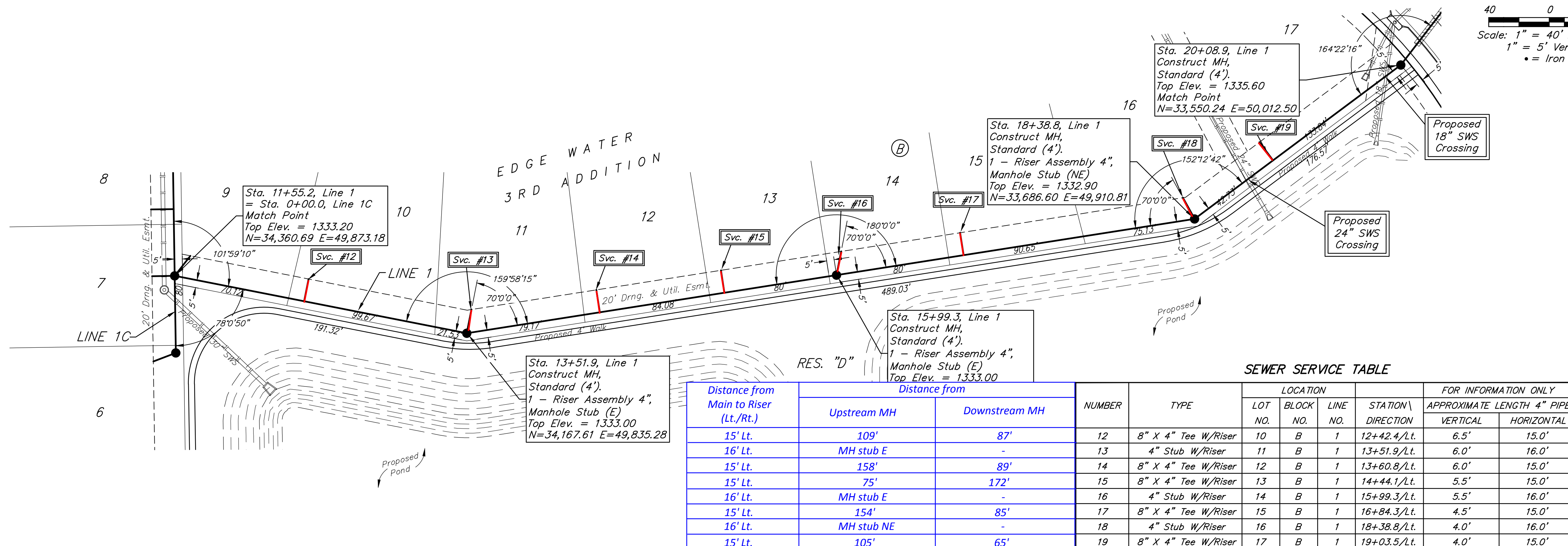
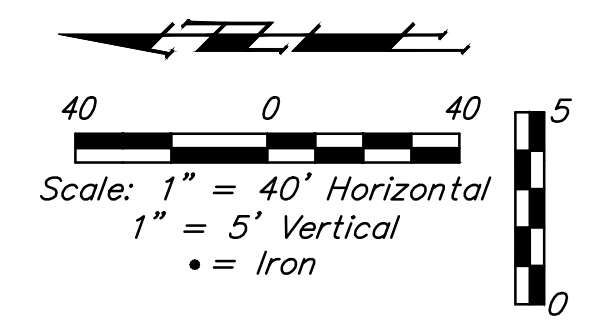
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	Upstream MH	Downstream MH			LOT NO.	BLOCK NO.	LINE NO.	STATION\ DIRECTION	APPROXIMATE LENGTH 4" PIPE	
16' Lt.	MH stub SE	-	8	4" Stub W/Riser	30	A	1	9+25.8/Lt.	10.0'	16.3'
15' Rt.	44'	101'	9	8" X 4" Tee W/Riser	8	B	1	11+11.1/Rt.	8.0'	15.0'
15' Rt.	MH stub N	-	10	4" Stub W/Riser	7	B	1	11+55.2/Rt.	7.5'	15.0'
16.8' Rt.	MH stub SE	-	11	4" Stub W/Riser	9	B	1	11+55.2/Lt.	7.5'	16.8'

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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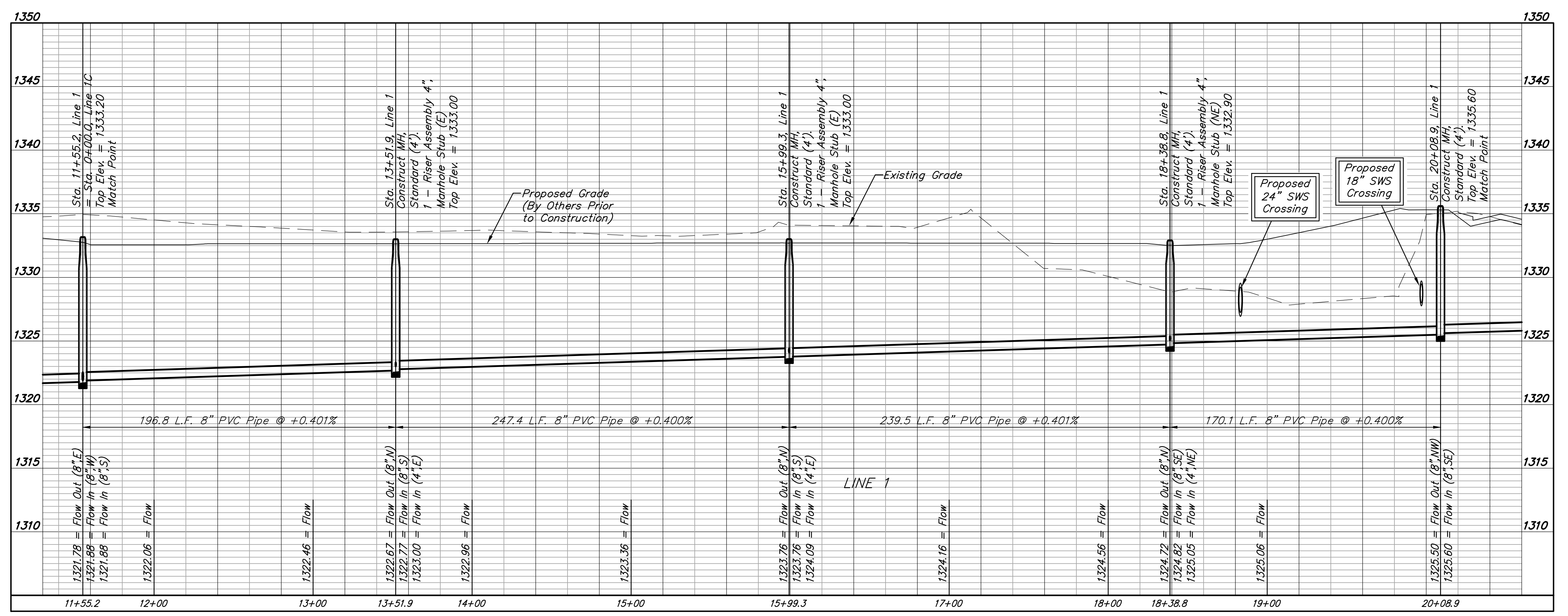
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	Upstream MH	Downstream MH			LOT NO.	BLOCK NO.	LINE NO.	STATION\ DIRECTION	APPROXIMATE LENGTH 4" PIPE	
									VERTICAL	HORIZONTAL
15' Lt.	109'	87'	12	8" X 4" Tee W/Riser	10	B	1	12+42.4/Lt.	6.5'	15.0'
16' Lt.	MH stub E	-	13	4" Stub W/Riser	11	B	1	13+51.9/Lt.	6.0'	16.0'
15' Lt.	158'	89'	14	8" X 4" Tee W/Riser	12	B	1	13+60.8/Lt.	6.0'	15.0'
15' Lt.	75'	172'	15	8" X 4" Tee W/Riser	13	B	1	14+44.1/Lt.	5.5'	15.0'
16' Lt.	MH stub E	-	16	4" Stub W/Riser	14	B	1	15+99.3/Lt.	5.5'	16.0'
15' Lt.	154'	85'	17	8" X 4" Tee W/Riser	15	B	1	16+84.3/Lt.	4.5'	15.0'
16' Lt.	MH stub NE	-	18	4" Stub W/Riser	16	B	1	18+38.8/Lt.	4.0'	16.0'
15' Lt.	105'	65'	19	8" X 4" Tee W/Riser	17	B	1	19+03.5/Lt.	4.0'	15.0'

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



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 17919
 3/1/2019
 KANSAS
 PROFESSIONAL ENGINEER

EDGE WATER 3RD/EDGE WATER
LINE 1
 SANITARY SEWER IMPROVEMENTS

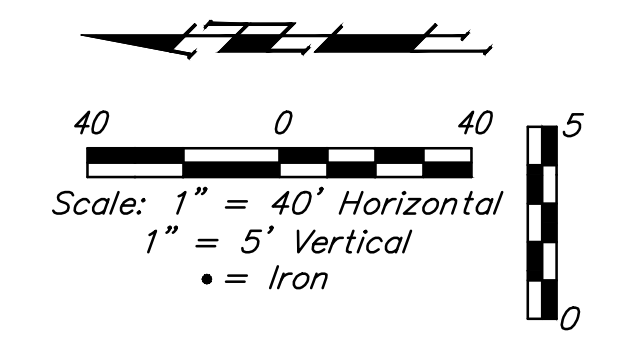
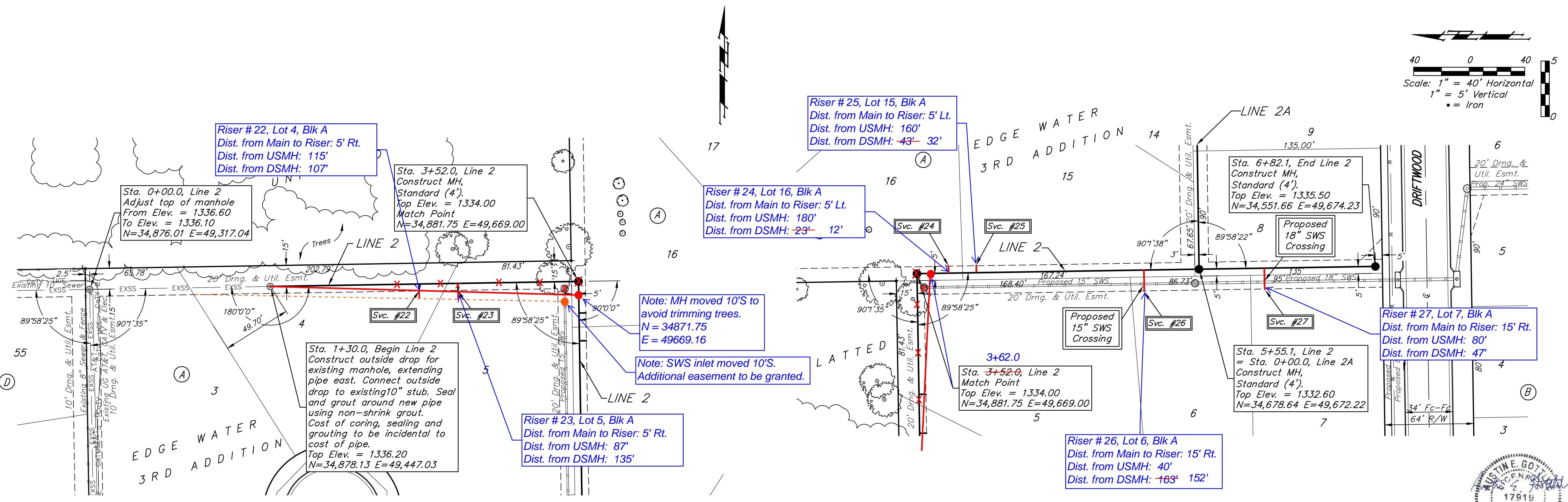
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Trees in conflict with sewer construction to be removed by contractor. To be paid for as lump sum bid item "Site Clearing"

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"

Prior to construction, an on-site meeting will occur with Contractor, Developer, and Engineer to determine limits of tree clearing.

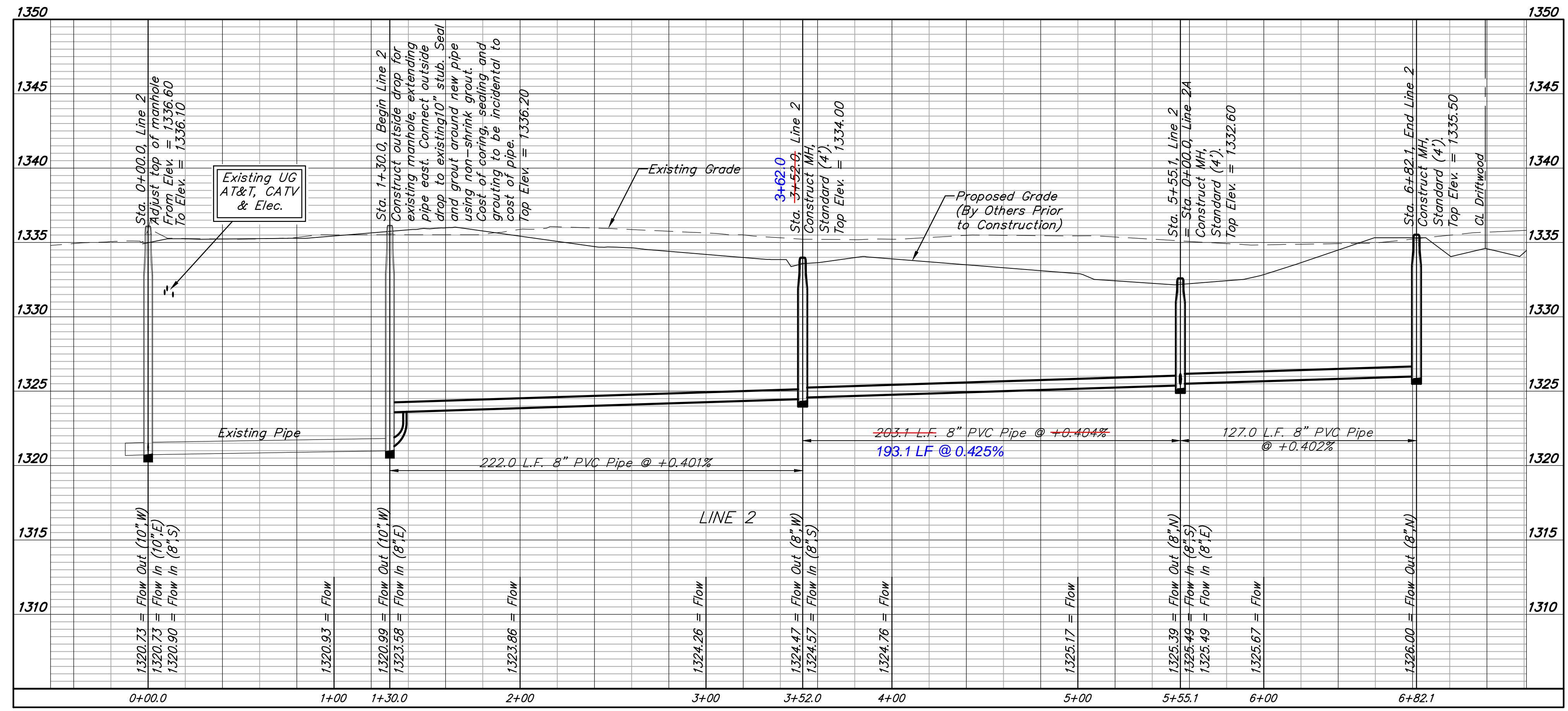


SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			STATION \ DIRECTION	FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.		APPROXIMATE LENGTH 4" PIPE	VERTICAL
22	8" X 4" Tee W/Riser	4	A	2	2+37.2/Rt.	7.0'	5.0'
23	8" X 4" Tee W/Riser	5	A	2	2+65.2/Rt.	6.5'	5.0'
24	8" X 4" Tee W/Riser	16	A	2	3+74.8/Lt.	5.5'	5.0'
25	8" X 4" Tee W/Riser	15	A	2	3+94.8/Lt.	5.5'	5.0'
26	8" X 4" Tee W/Riser	6	A	2	5+15.4/Rt.	-	15.0'
27	8" X 4" Tee W/Riser	7	A	2	6+02.1/Rt.	-	15.0'

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 stub prior to construction and notify Engineer of any discrepancy.

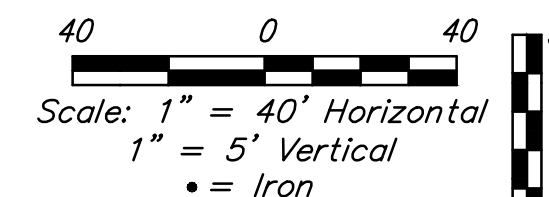
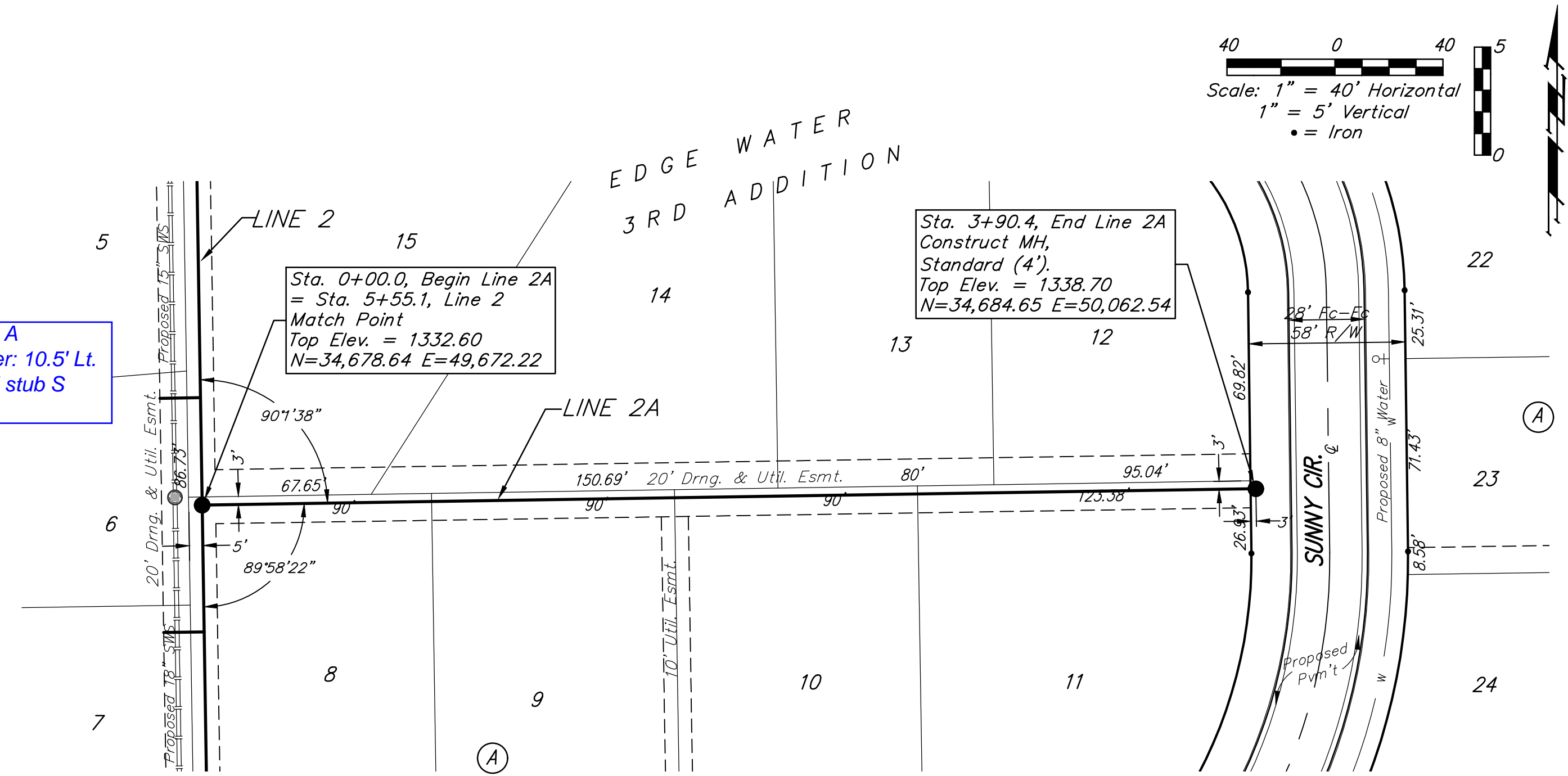
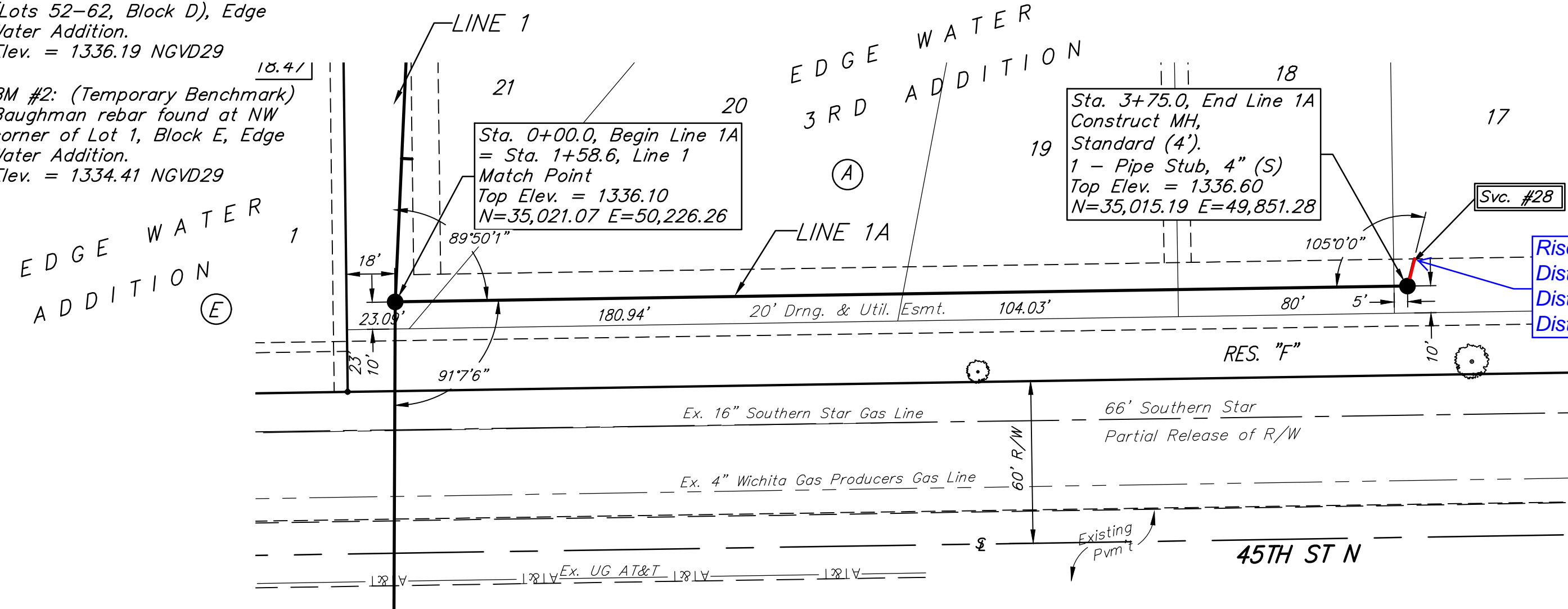


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 17919
 3/1/2017
 PROFESSIONAL ENGINEER

EDGE WATER 3RD/EDGE WATER
LINE 2
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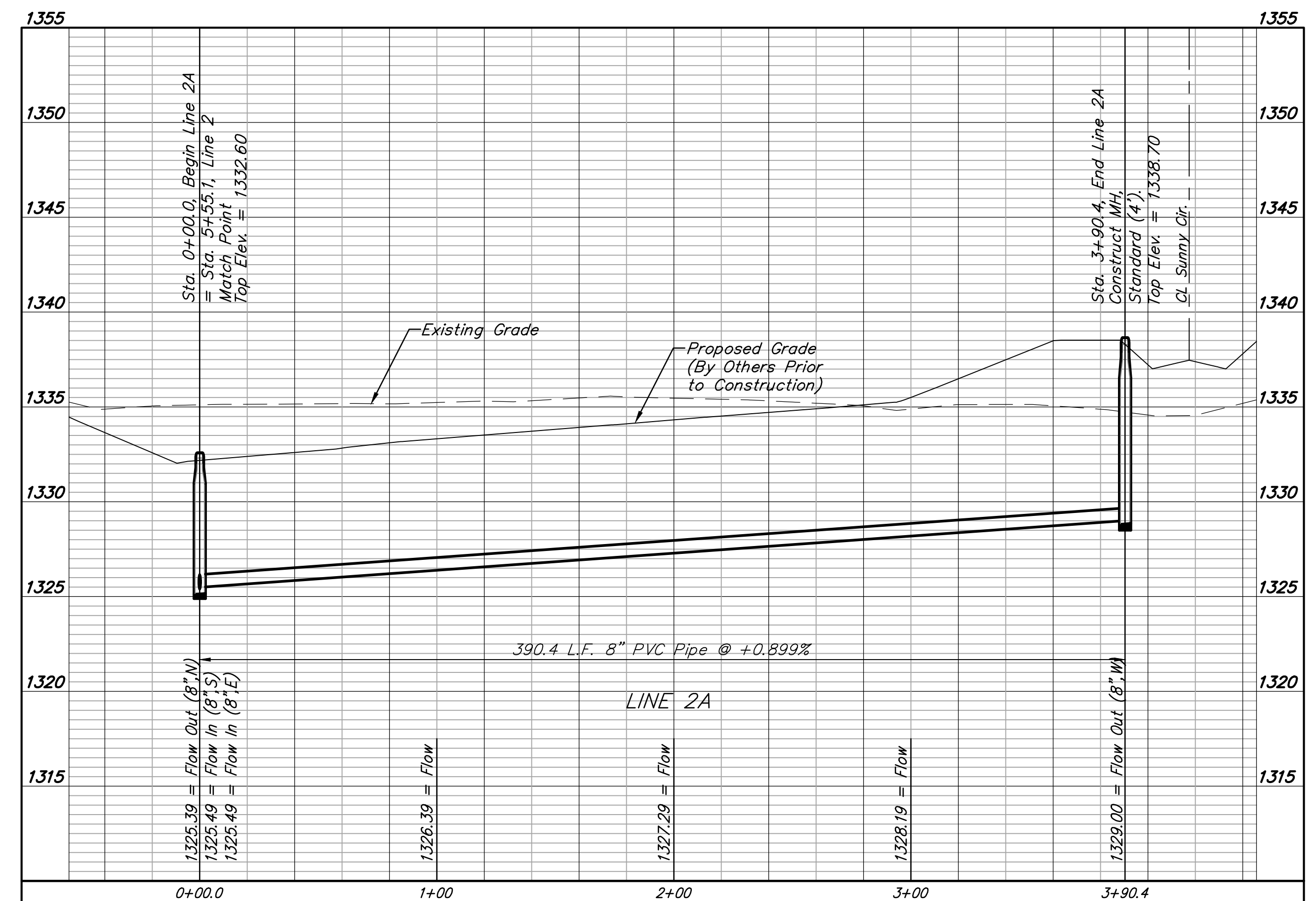
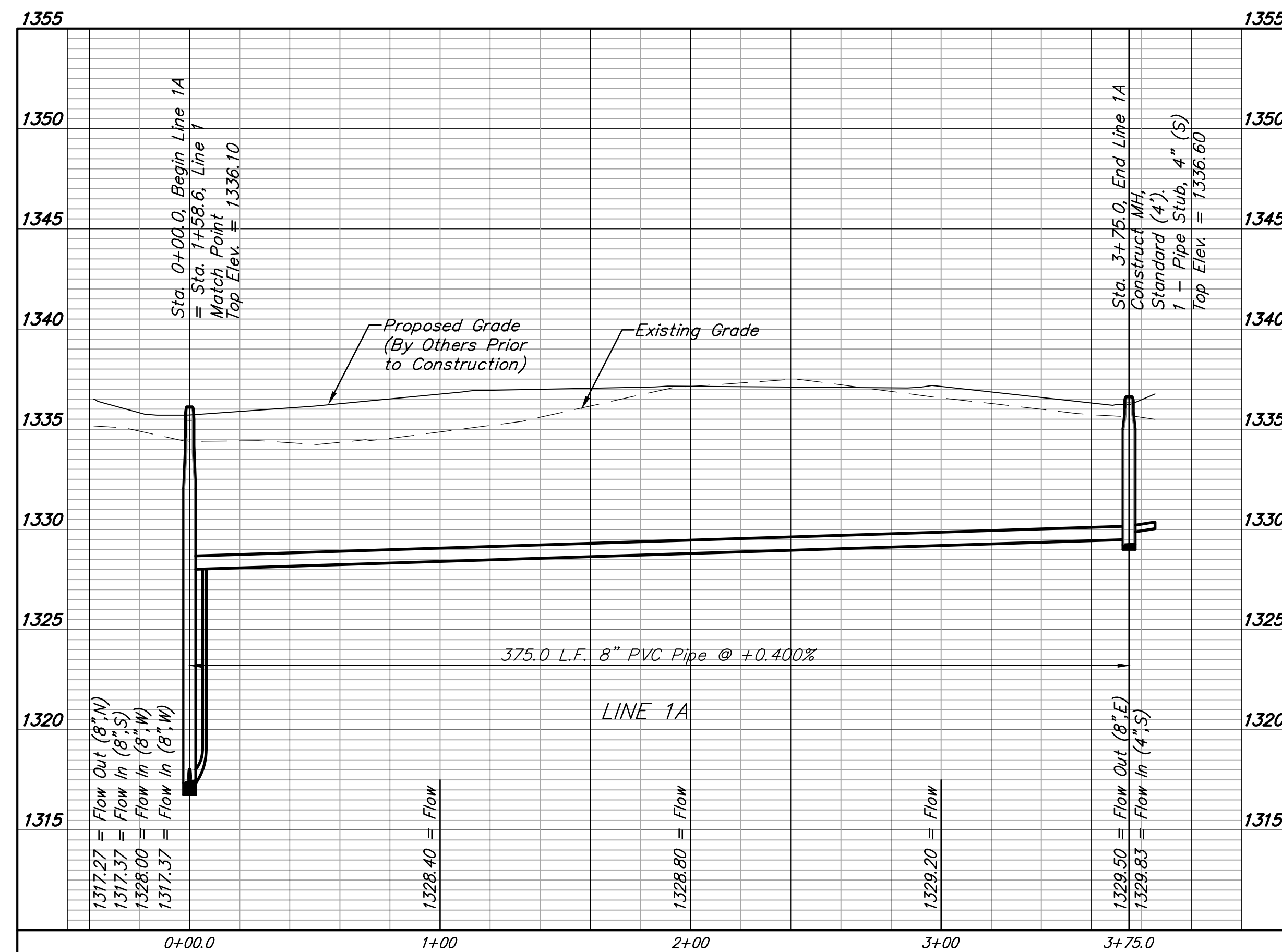
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		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE	VERTICAL
28	4" Stub	17	A	1A	3+75.0/Lt.	-	10.5'

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 17919
 3/1/2019
 PROFESSIONAL ENGINEER
 STATE OF KANSAS
 License No. 17919
 Austin E. Gotsch

EDGE WATER 3RD/EDGE WATER
LINES 1A & 2A
 SANITARY SEWER IMPROVEMENTS

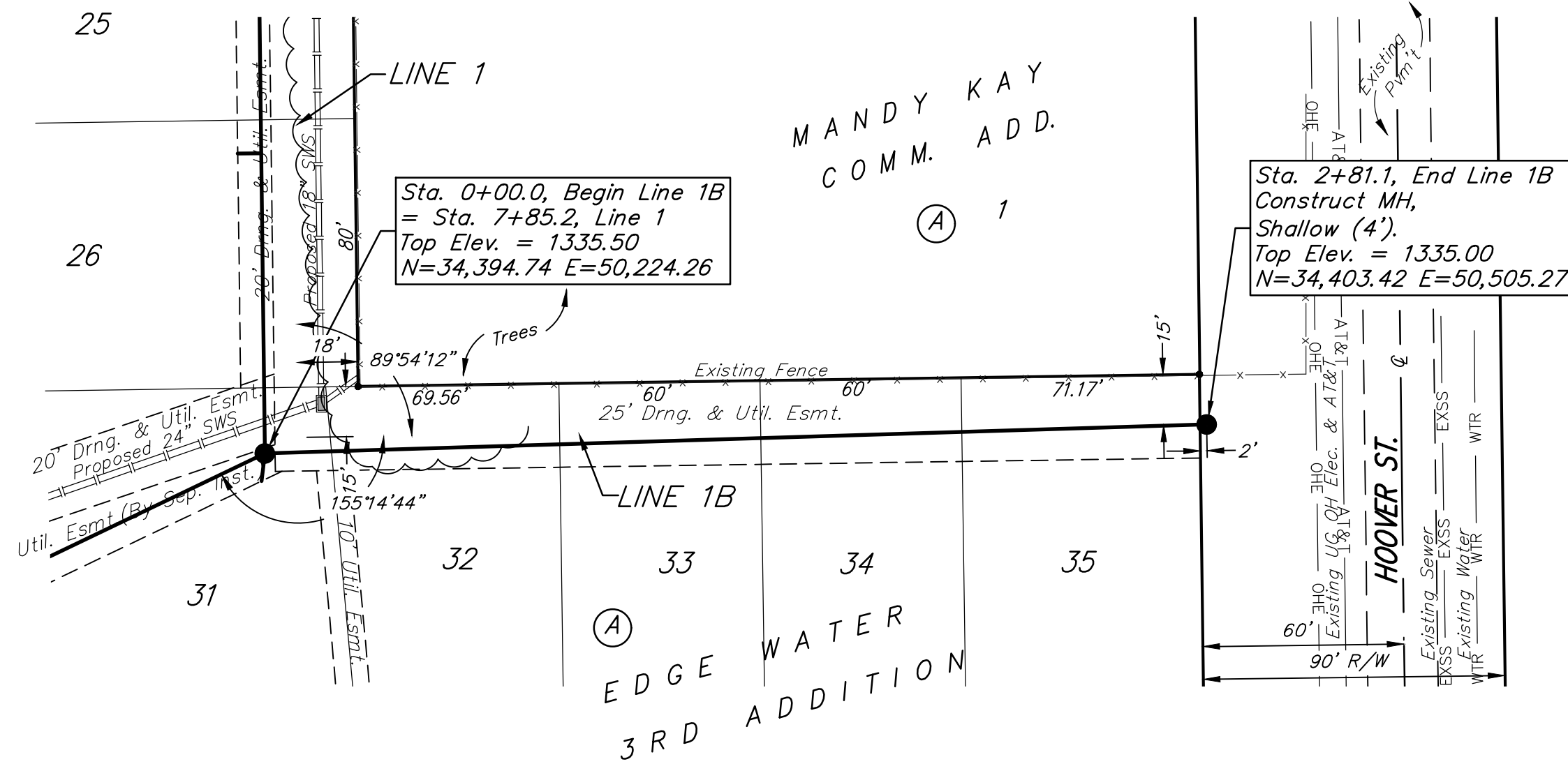
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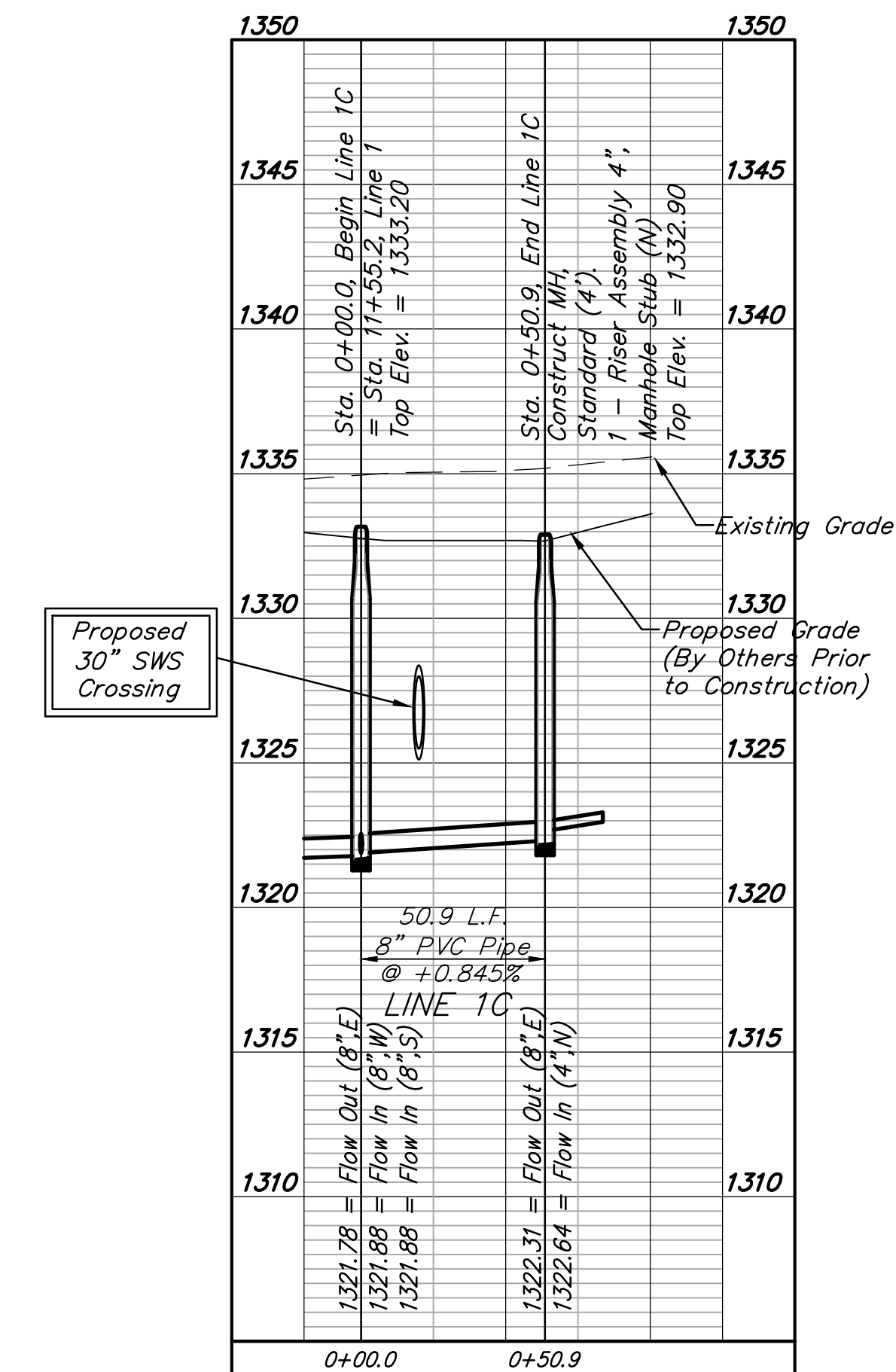
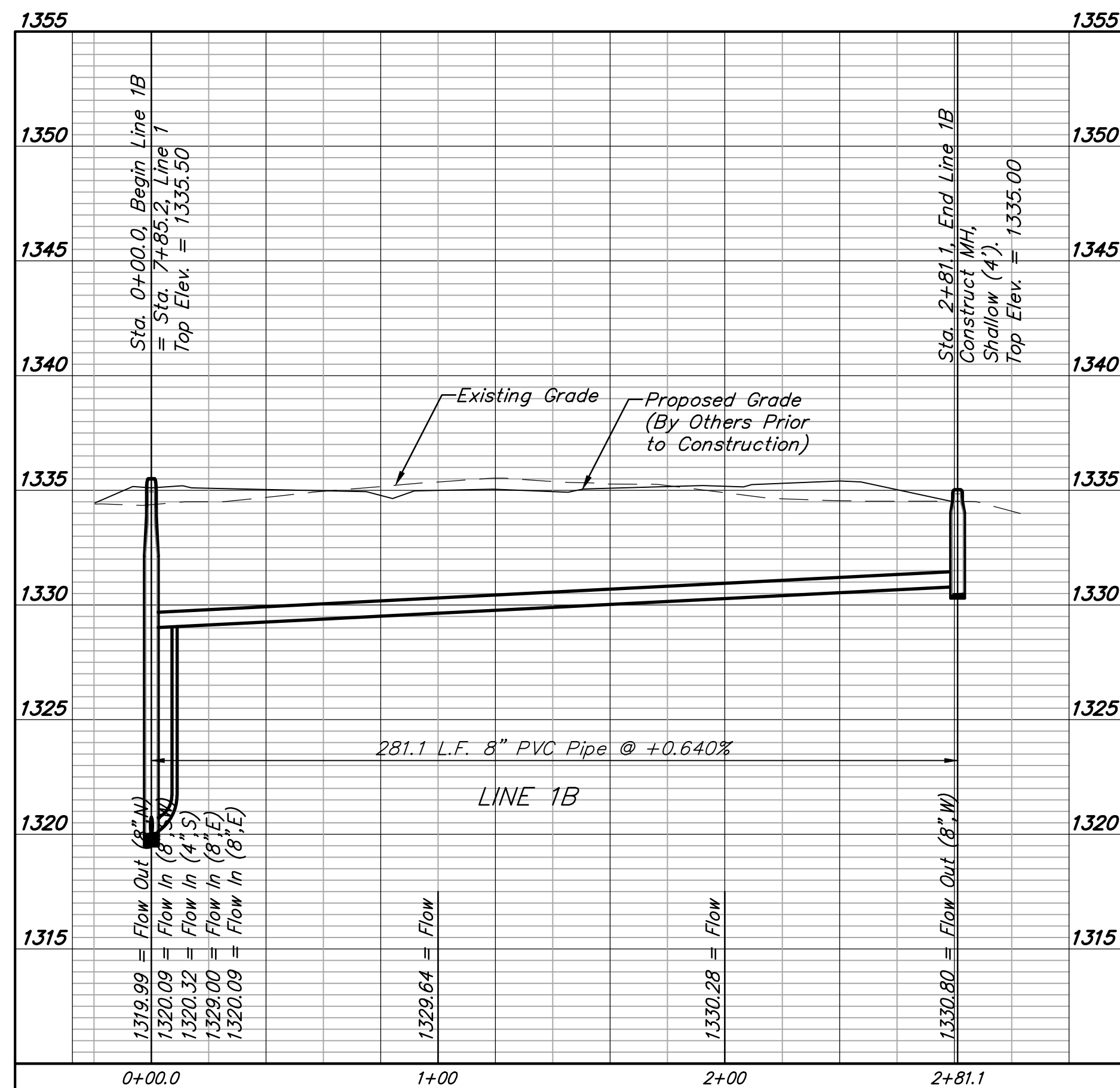
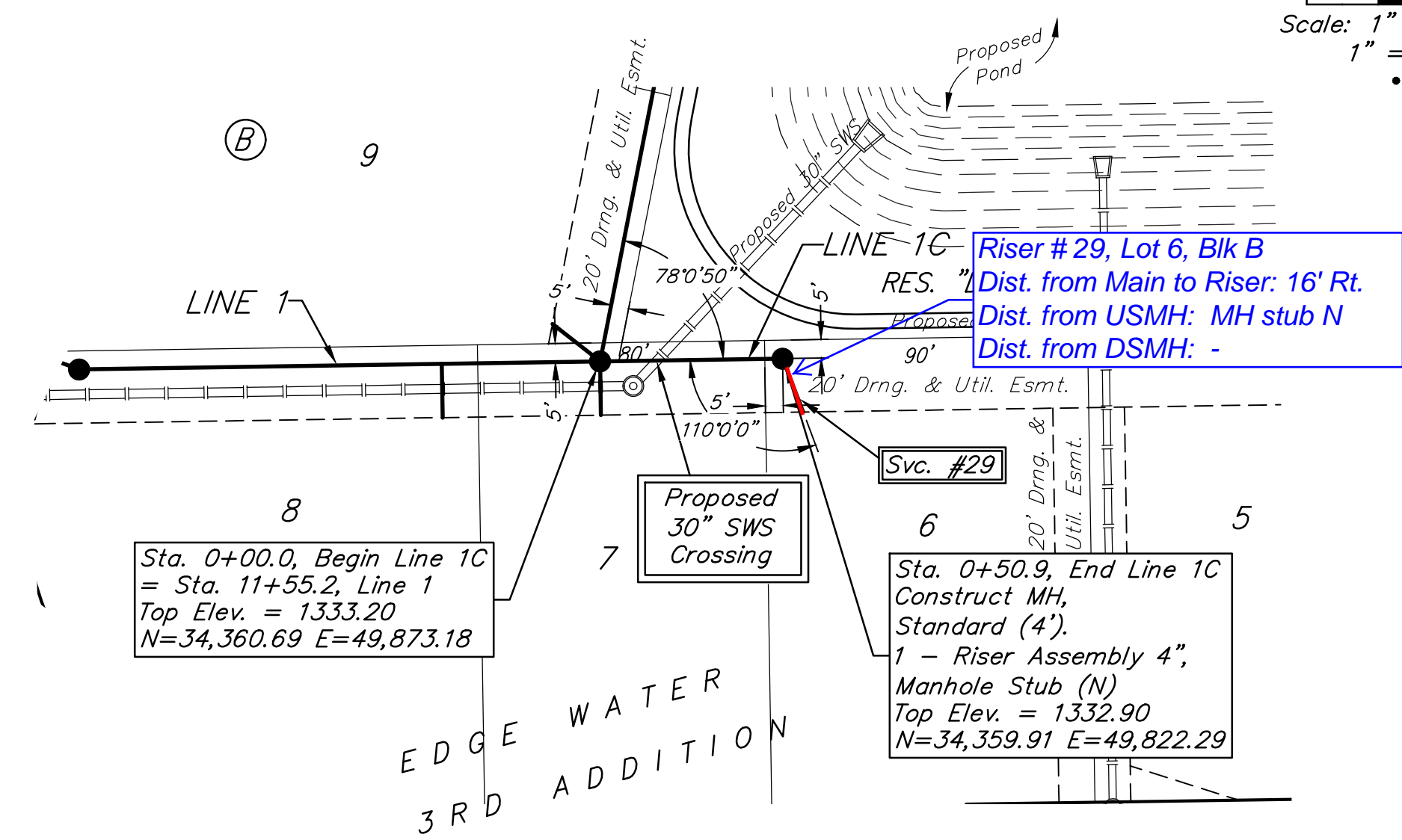
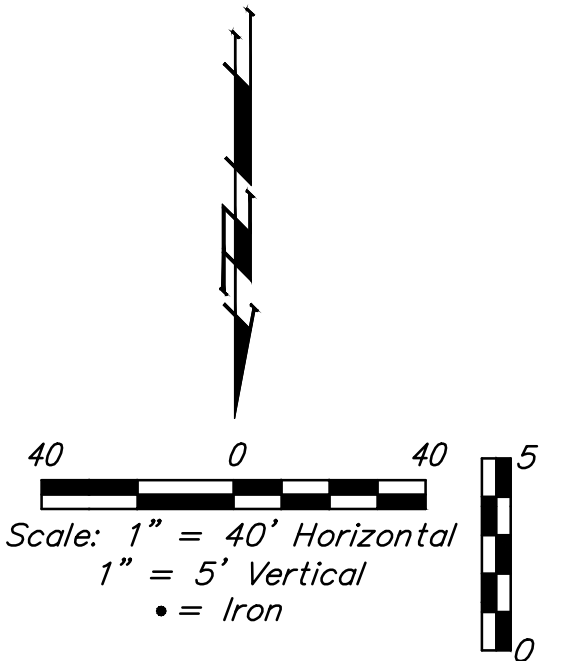
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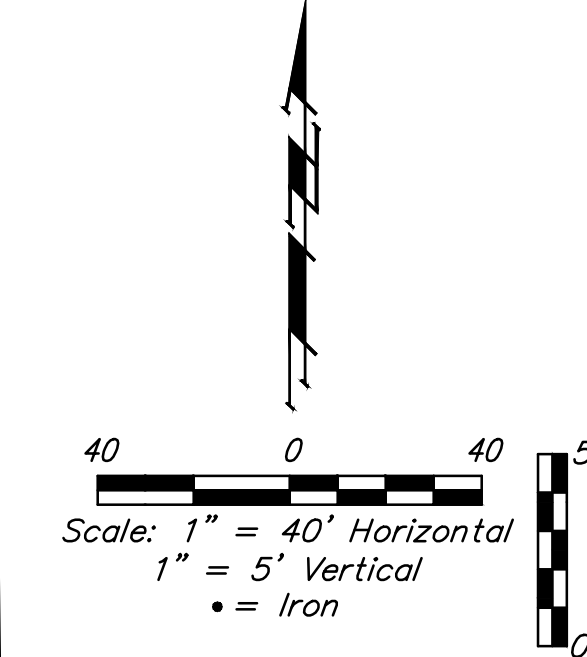
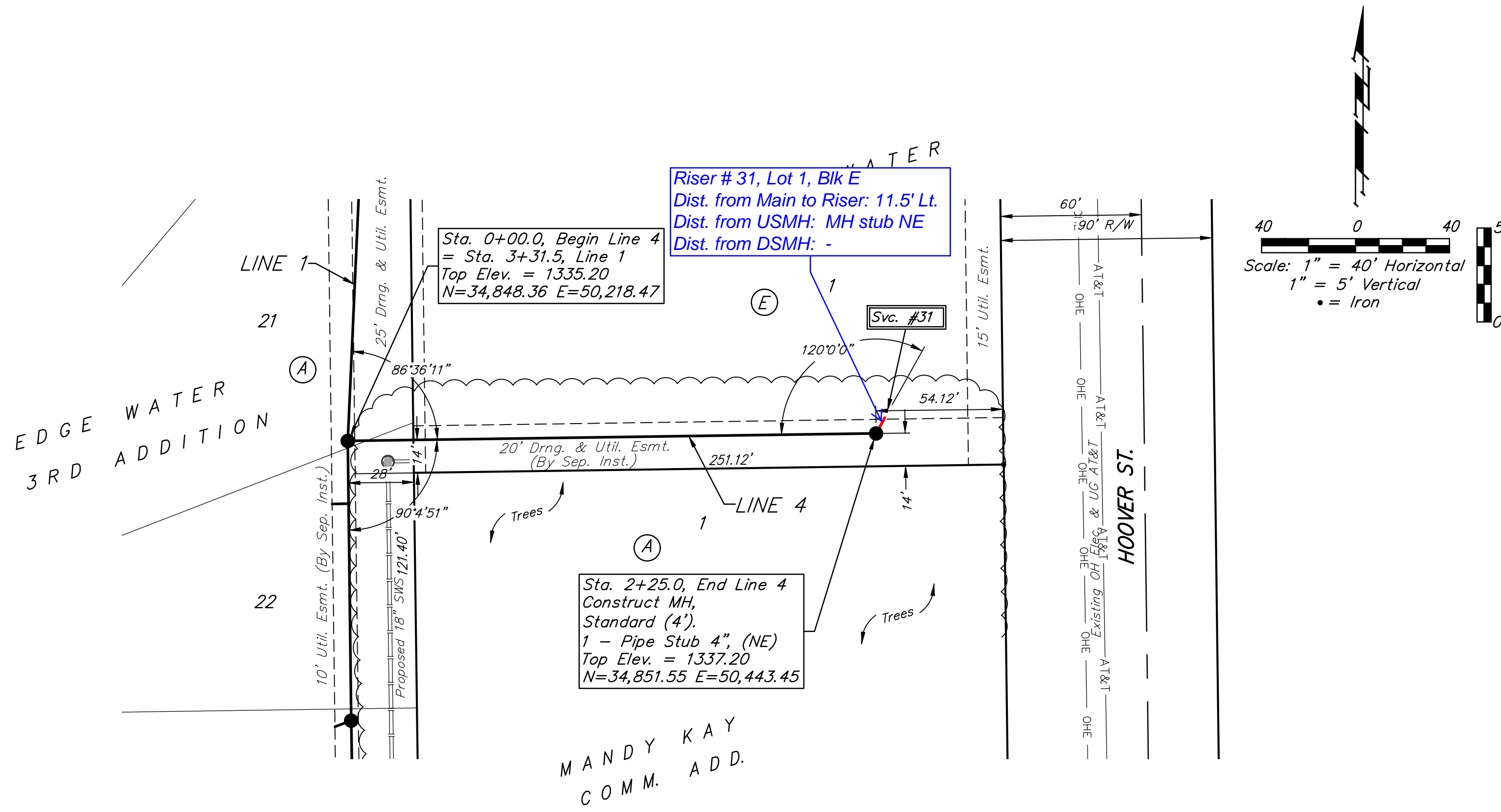
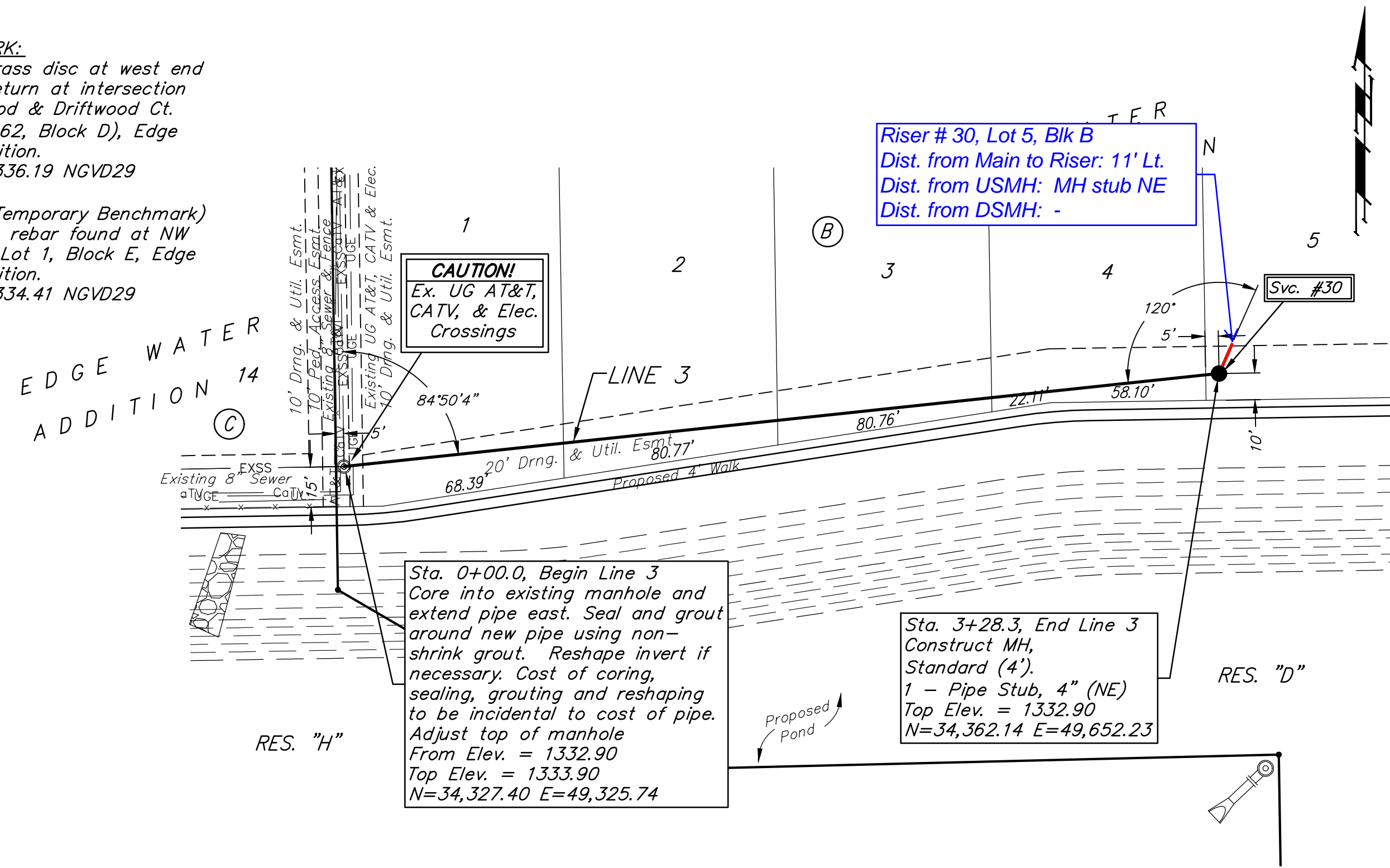
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		LOT NO.	BLOCK NO.	LINE NO.		APPROXIMATE LENGTH 4" PIPE	VERTICAL
29	4" Stub W/Riser	6	B	1C	0+50.9/Rt.	6.0'	16.0'

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



BENCHMARK:
 BM #1: Brass disc at west end of west return at intersection of Driftwood & Driftwood Ct. (Lots 52-62, Block D), Edge Water Addition.
 Elev. = 1336.19 NGVD29

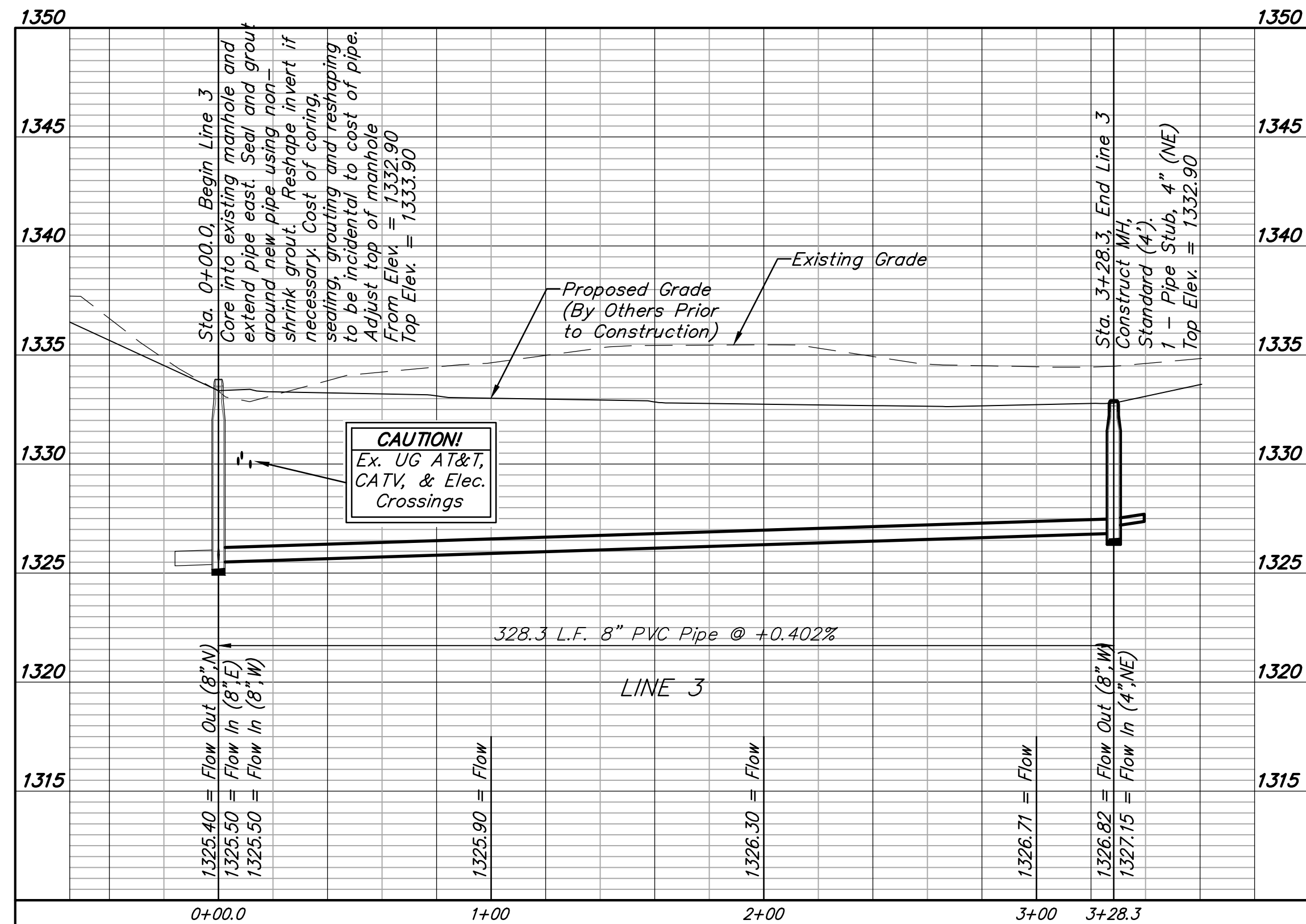
BM #2: (Temporary Benchmark) Baughman rebar found at NW corner of Lot 1, Block E, Edge Water Addition.
 Elev. = 1334.41 NGVD29



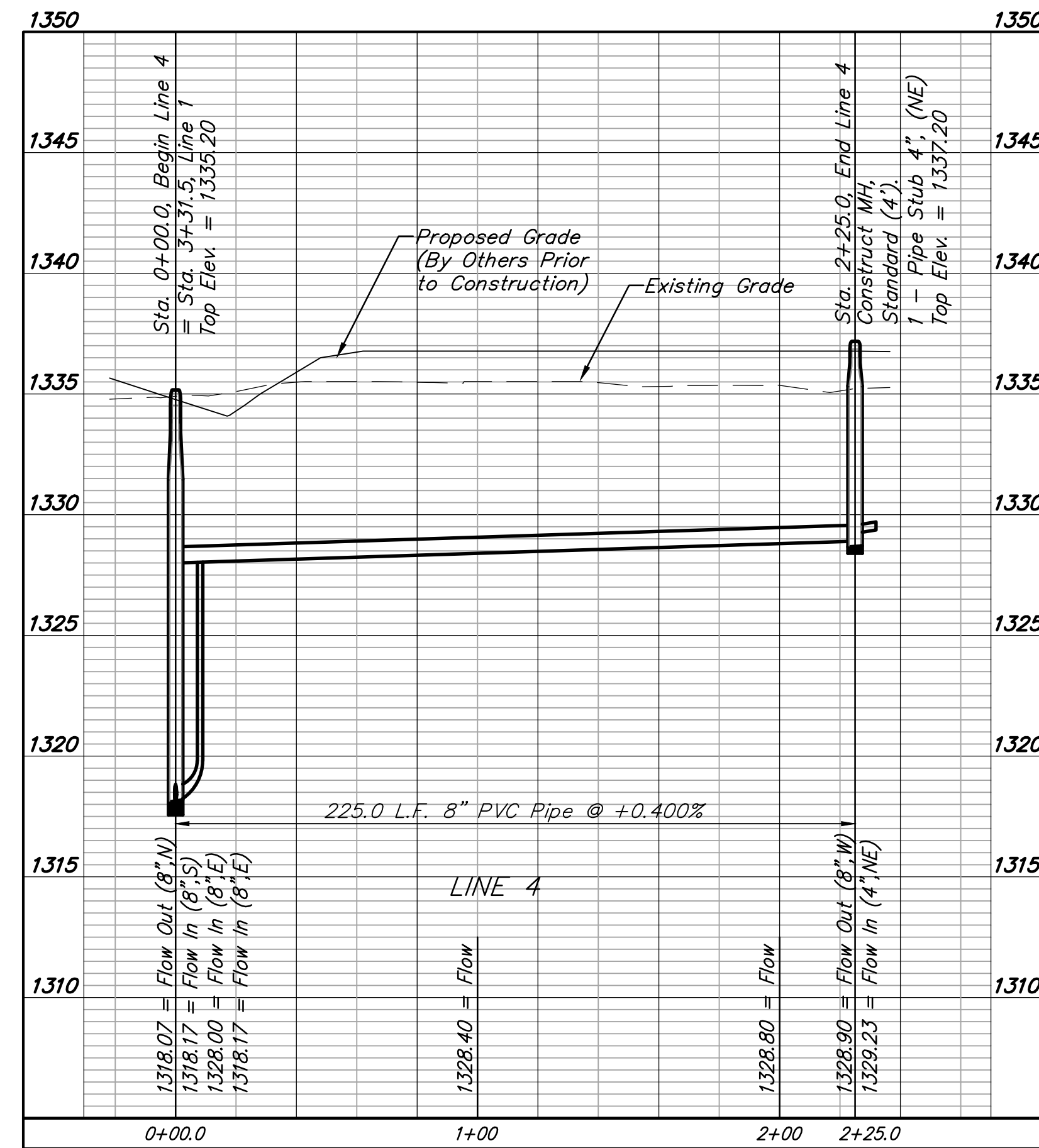
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE	VERTICAL
30	4" Stub	5	B	3	3+28.3/Lt.	-	11.2'
31	4" Stub	1	E	4	2+15.0/Lt.	-	11.5'

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



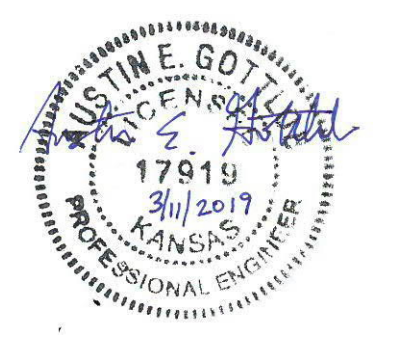
Contractor shall verify elevation and alignment of existing stub prior to construction and notify Engineer of any discrepancy.



Trees in conflict with 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"

Prior to construction, an on-site meeting will occur with Contractor, Developer, and Engineer to determine limits of tree clearing.



BENCHMARK:
 BM #1: Brass disc at west end of west return at intersection of Driftwood & Driftwood Ct. (Lots 52-62, Block D), Edge Water Addition.
 Elev. = 1336.19 NGVD29

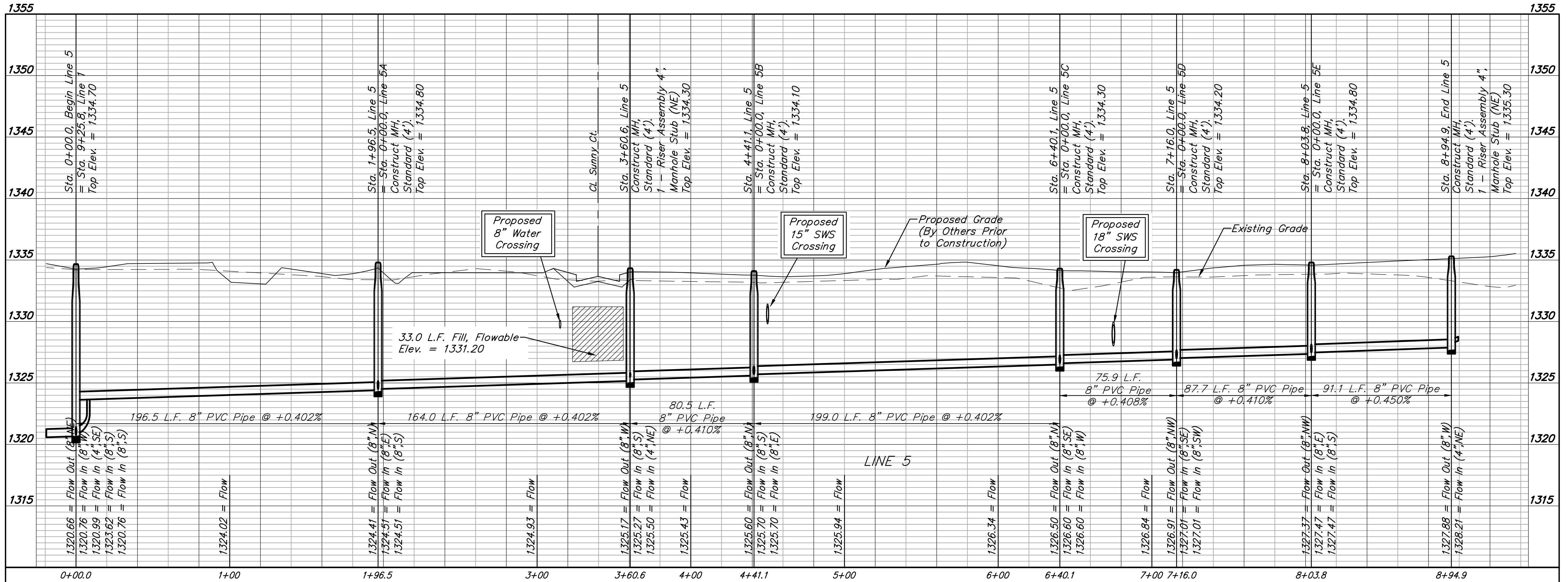
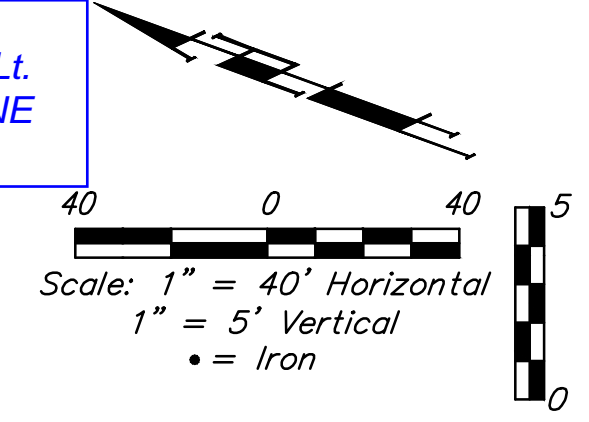
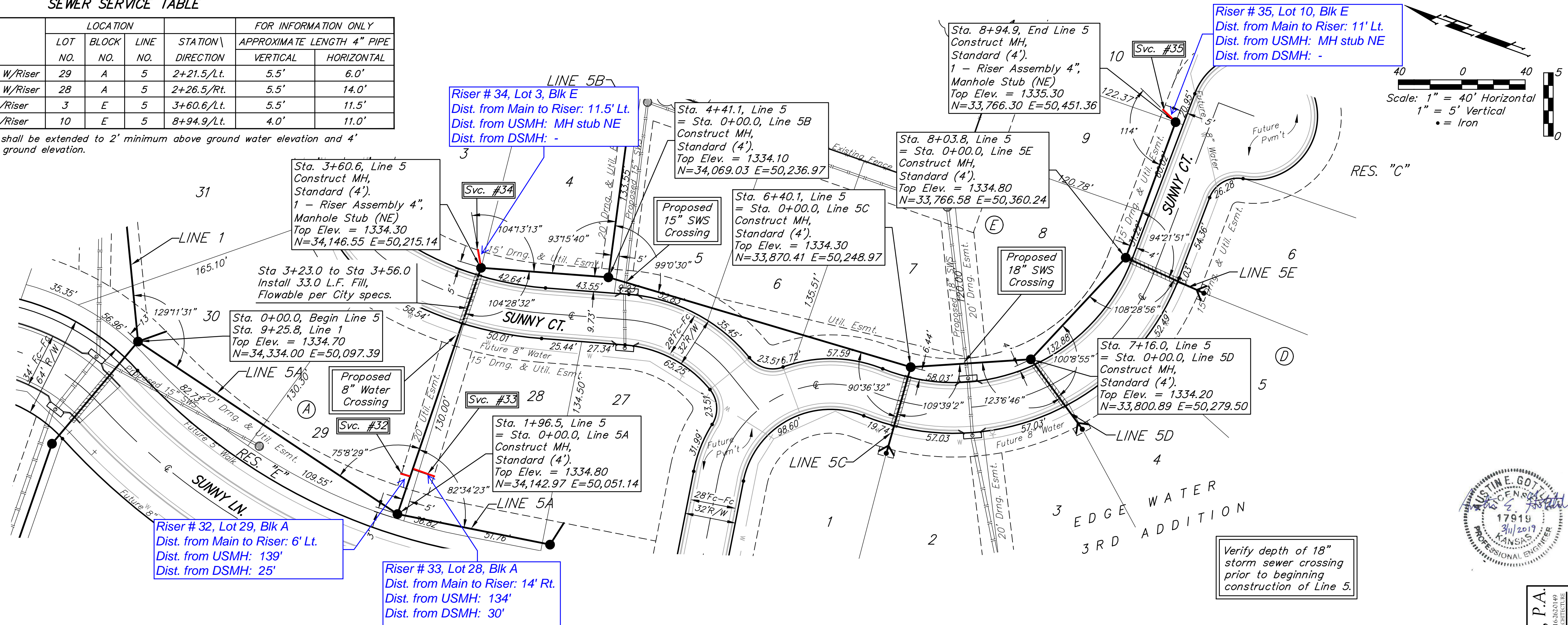
BM #2: (Temporary Benchmark) Baughman rebar found at NW corner of Lot 1, Block E, Edge Water Addition.
 Elev. = 1334.41 NGVD29

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	LINE NO.	STATION\ DIRECTION	APPROXIMATE LENGTH 4" PIPE	VERTICAL
32	8" X 4" Tee W/Riser	29	A	5	2+21.5/Lt.	5.5'	6.0'
33	8" X 4" Tee W/Riser	28	A	5	2+26.5/Rt.	5.5'	14.0'
34	4" Stub W/Riser	3	E	5	3+60.6/Lt.	5.5'	11.5'
35	4" Stub W/Riser	10	E	5	8+94.9/Lt.	4.0'	11.0'

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

All trench and manhole excavation areas from Sta. 3+60.6 to Sta. 8+94.9, Line 5 shall be backfilled with sand. The sand backfill shall be within two feet of existing grade and shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".

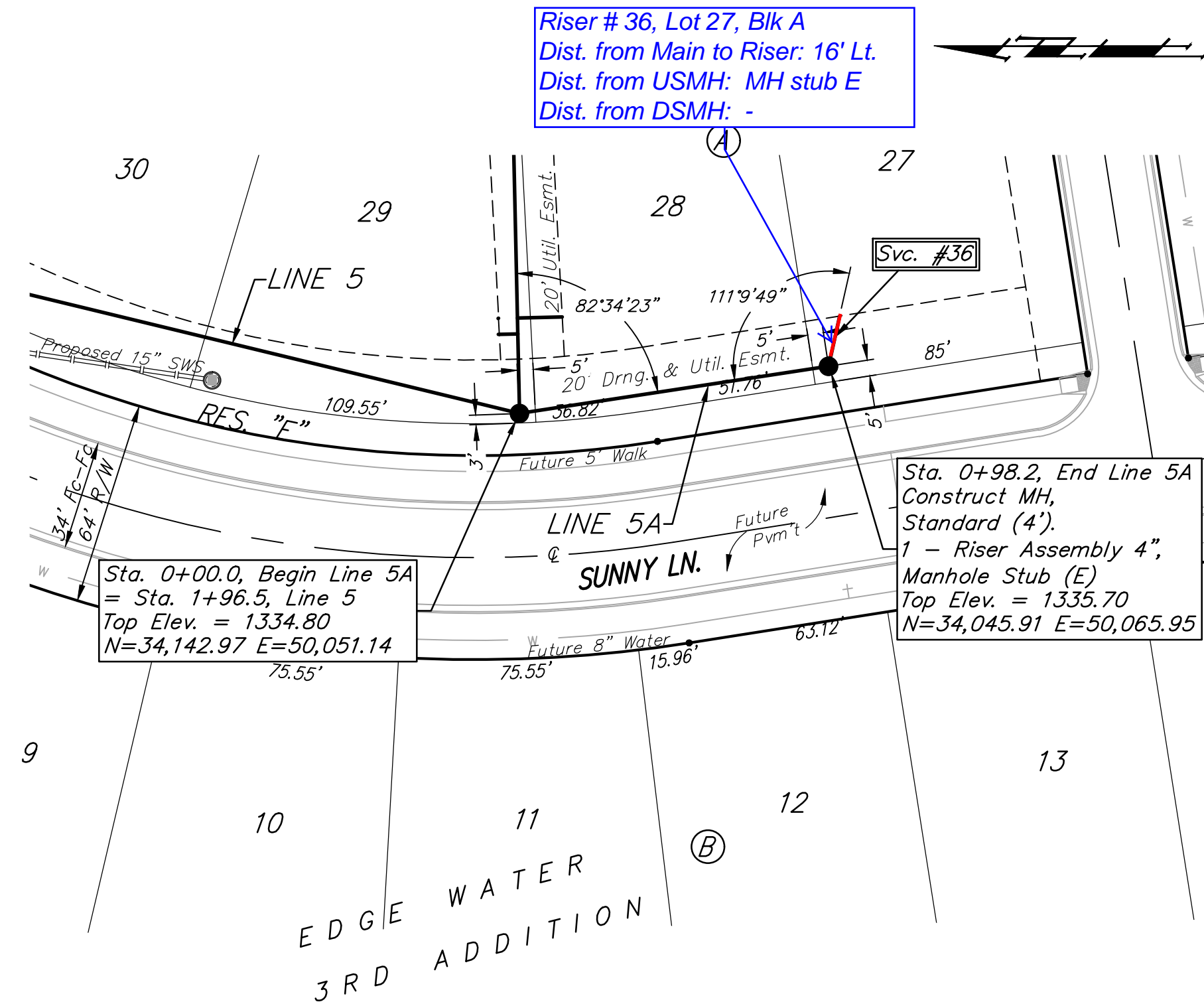


Baughman Company, P.A.
 17919
 3/1/2019
 KANSAS
 PROFESSIONAL ENGINEER

EDGE WATER 3RD/EDGE WATER
LINE 5
 SANITARY SEWER IMPROVEMENTS

BENCHMARK:
 BM #1: Brass disc at west end of west return at intersection of Driftwood & Driftwood Ct. (Lots 52-62, Block D), Edge Water Addition.
 Elev. = 1336.19 NGVD29

BM #2: (Temporary Benchmark) Baughman rebar found at NW corner of Lot 1, Block E, Edge Water Addition.
 Elev. = 1334.41 NGVD29



Riser # 36, Lot 27, Blk A
 Dist. from Main to Riser: 16' Lt.
 Dist. from USMH: MH stub E
 Dist. from DSMH: -

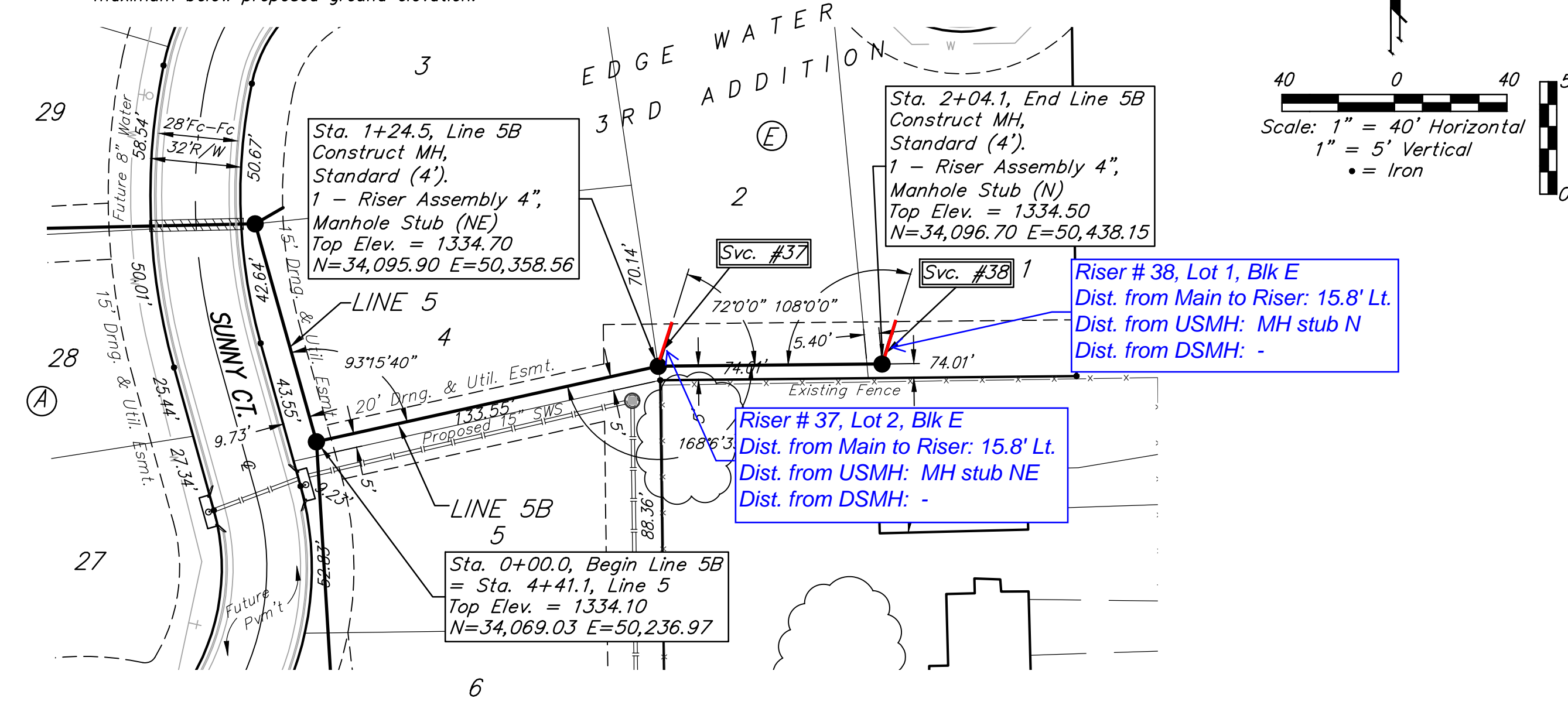
Sta. 0+00.0, Begin Line 5A = Sta. 1+96.5, Line 5
 Top Elev. = 1334.80
 N=34,142.97 E=50,051.14

Sta. 0+98.2, End Line 5A Construct MH, Standard (4').
 1 - Riser Assembly 4", Manhole Stub (E)
 Top Elev. = 1335.70
 N=34,045.91 E=50,065.95

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			STATION \ DIRECTION	FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.		APPROXIMATE LENGTH 4" PIPE	VERTICAL
36	4" Stub W/Riser	27	A	5A	0+98.2/Lt.	7.5'	16.1'
37	4" Stub W/Riser	2	E	5B	1+24.5/Lt.	4.0'	15.8'
38	4" Stub W/Riser	1	E	5B	2+04.1/Lt.	3.5'	15.8'

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

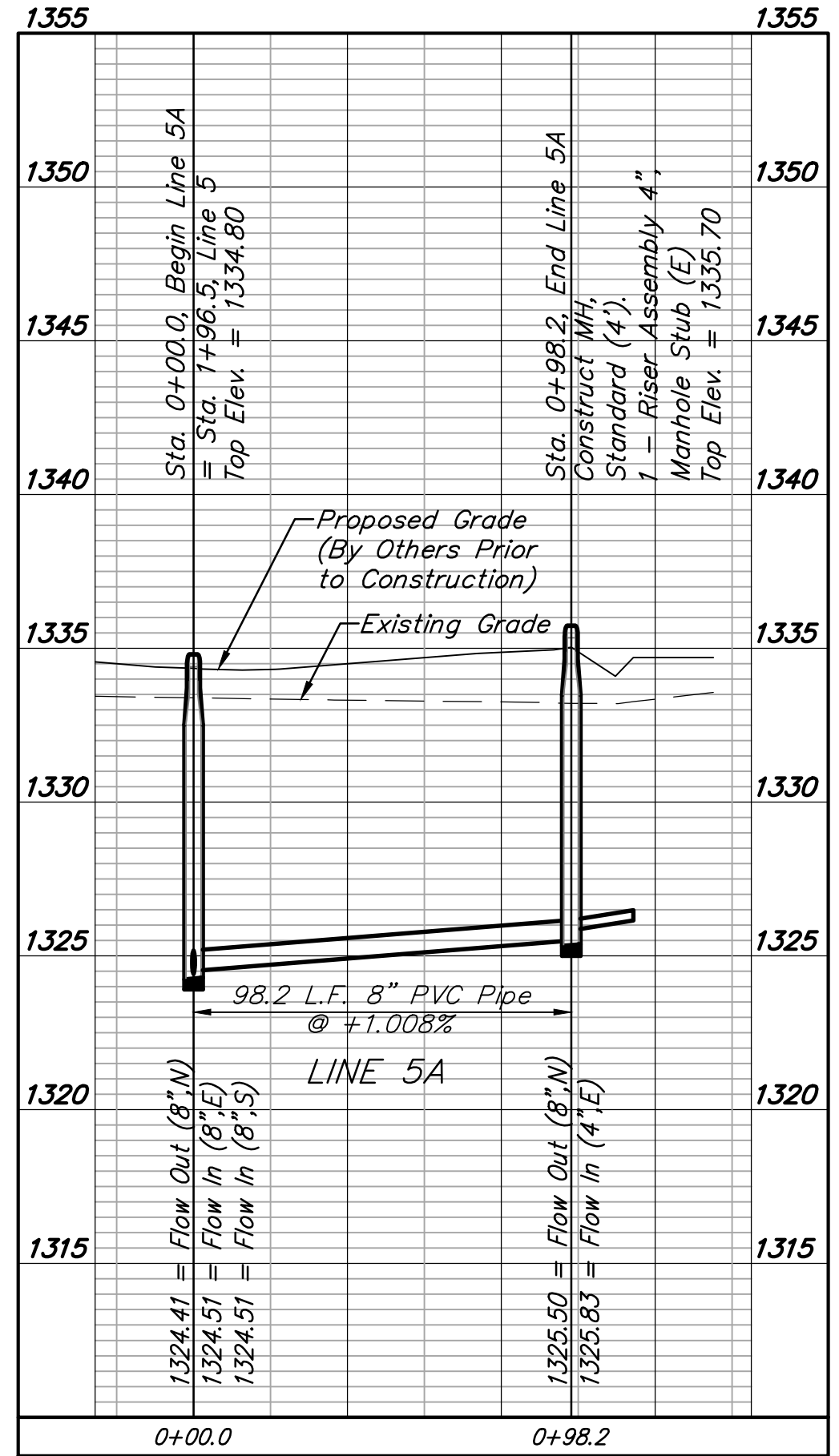
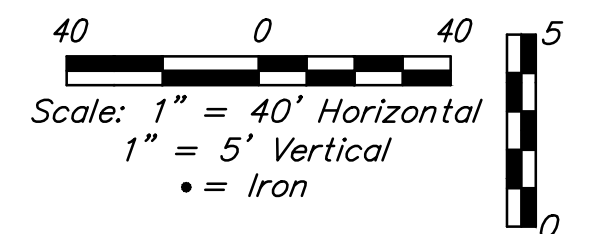


Riser # 37, Lot 2, Blk E
 Dist. from Main to Riser: 15.8' Lt.
 Dist. from USMH: MH stub NE
 Dist. from DSMH: -

Riser # 38, Lot 1, Blk E
 Dist. from Main to Riser: 15.8' Lt.
 Dist. from USMH: MH stub N
 Dist. from DSMH: -

Sta. 0+00.0, Begin Line 5B = Sta. 4+41.1, Line 5
 Top Elev. = 1334.10
 N=34,069.03 E=50,236.97

Sta. 2+04.1, End Line 5B Construct MH, Standard (4').
 1 - Riser Assembly 4", Manhole Stub (N)
 Top Elev. = 1334.50
 N=34,096.70 E=50,438.15



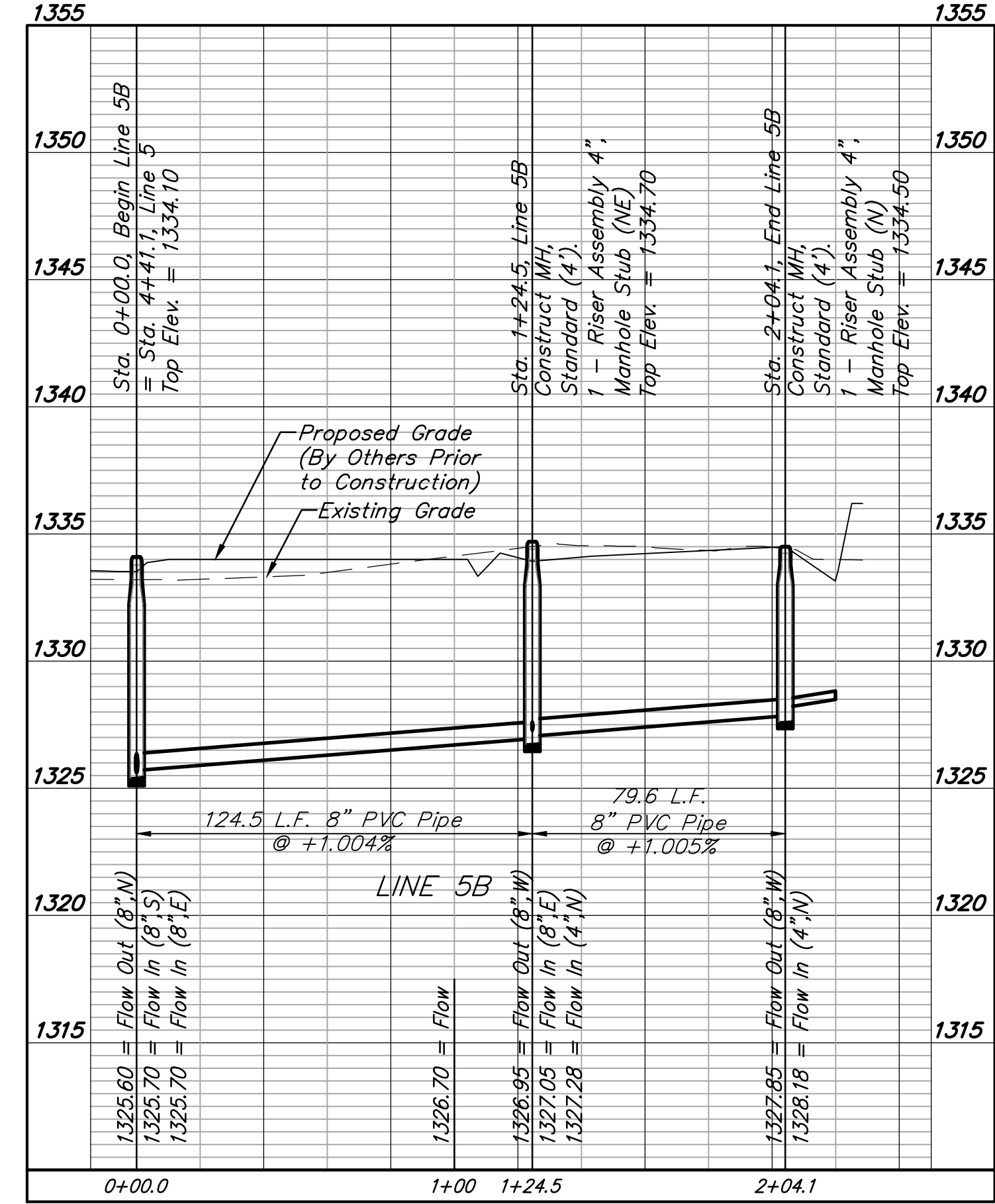
Proposed Grade (By Others Prior to Construction)
 Existing Grade

98.2 L.F. 8" PVC Pipe @ +1.008%

LINE 5A

1324.41 = Flow Out (8" N)
 1324.51 = Flow In (8" E)
 1324.51 = Flow In (8" S)

1325.50 = Flow Out (8" W)
 1325.63 = Flow In (4" E)



Proposed Grade (By Others Prior to Construction)
 Existing Grade

124.5 L.F. 8" PVC Pipe @ +1.004%

79.6 L.F. 8" PVC Pipe @ +1.005%

LINE 5B

1326.60 = Flow Out (8" W)
 1326.70 = Flow In (8" S)
 1326.70 = Flow In (8" E)

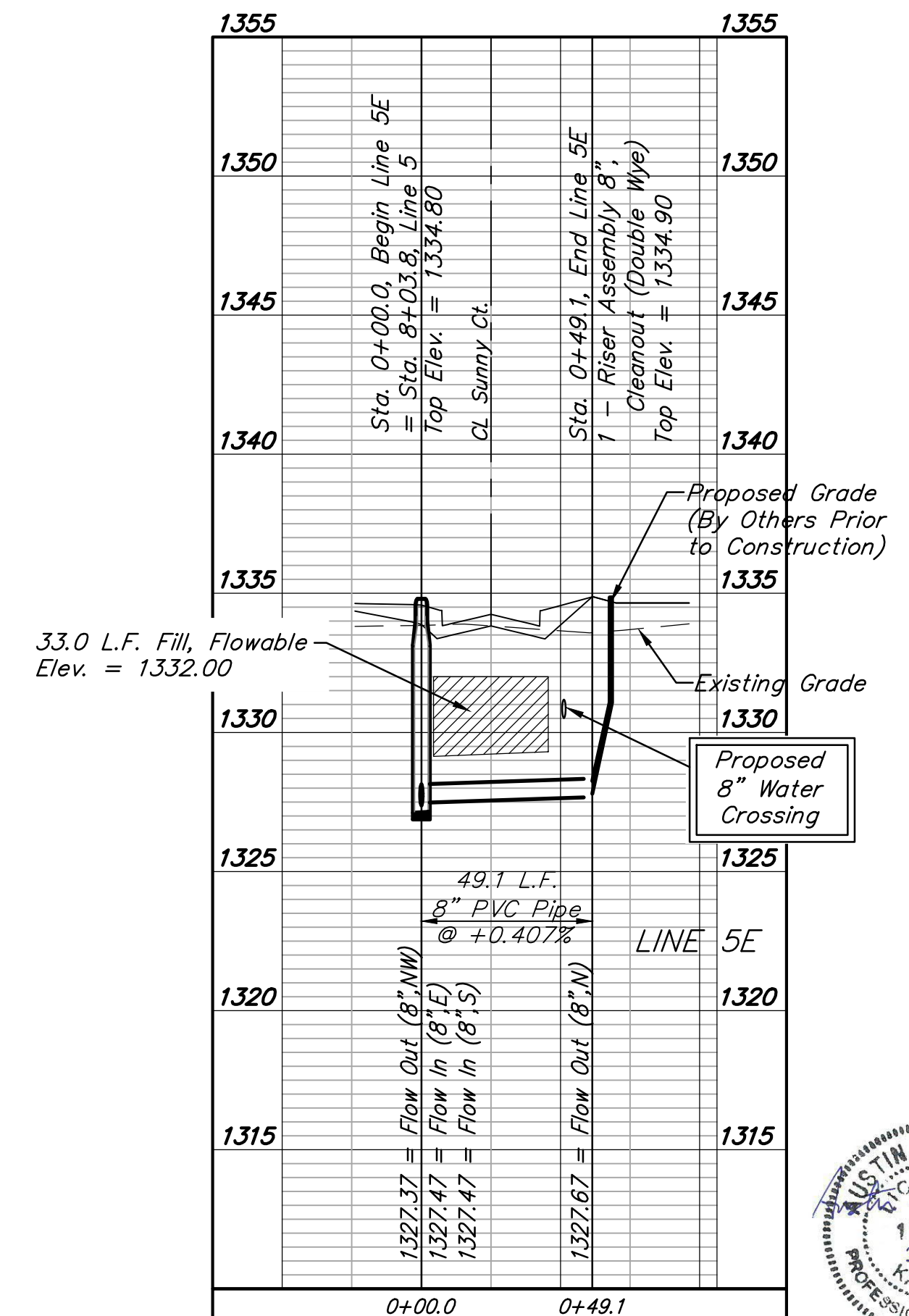
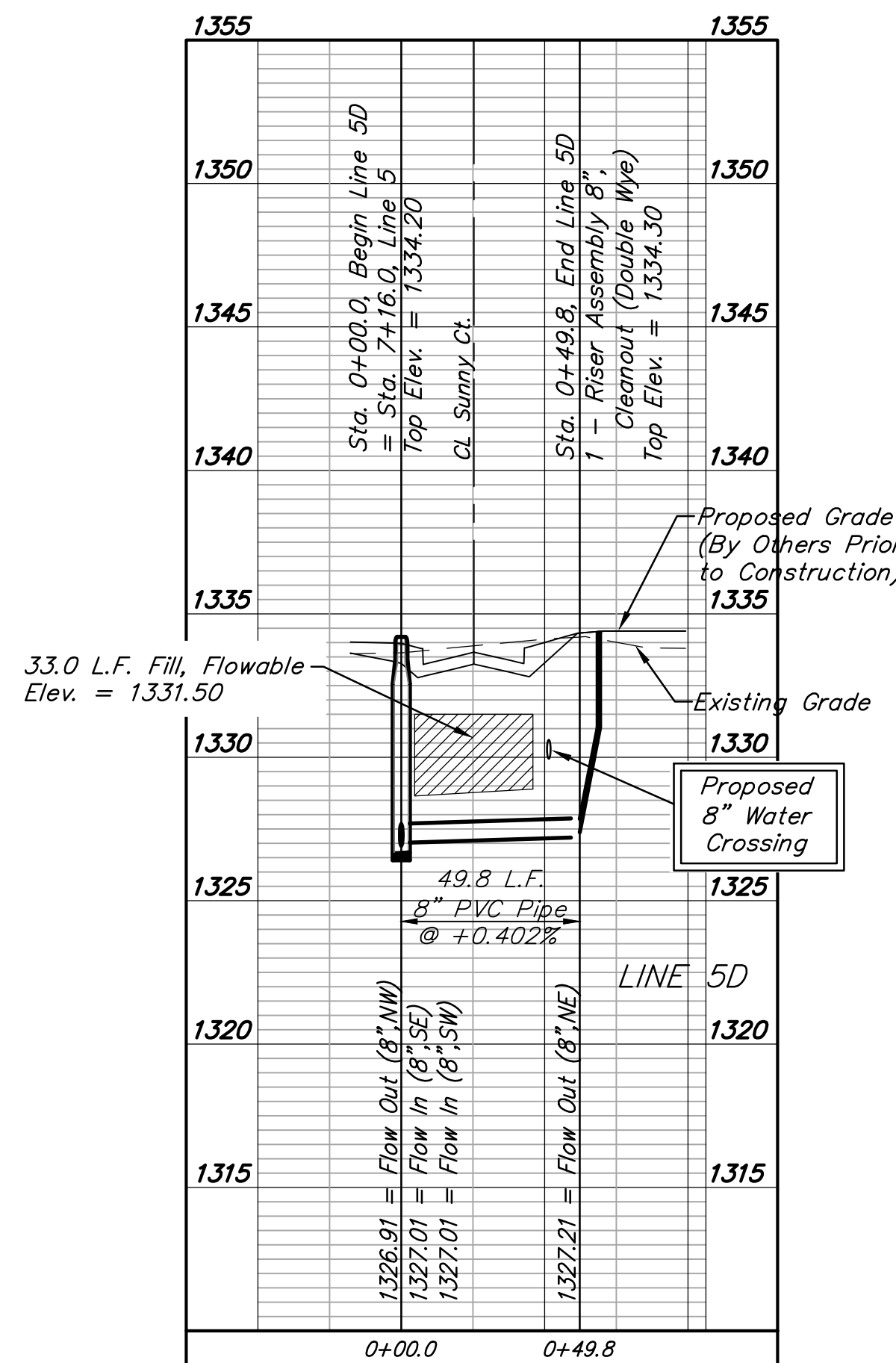
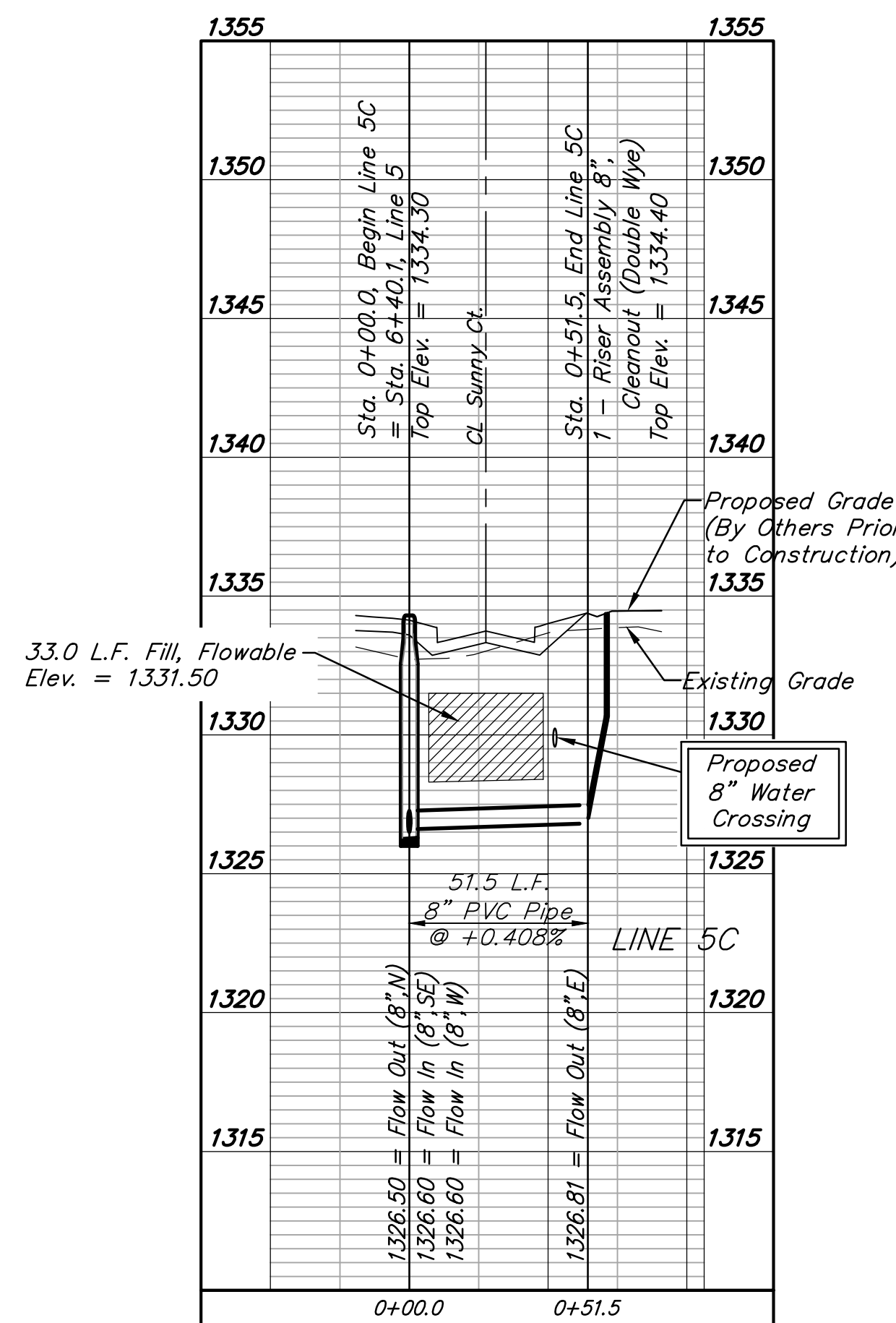
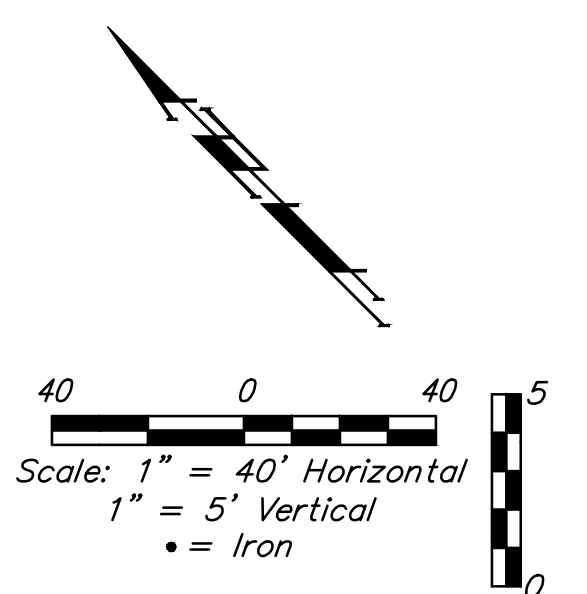
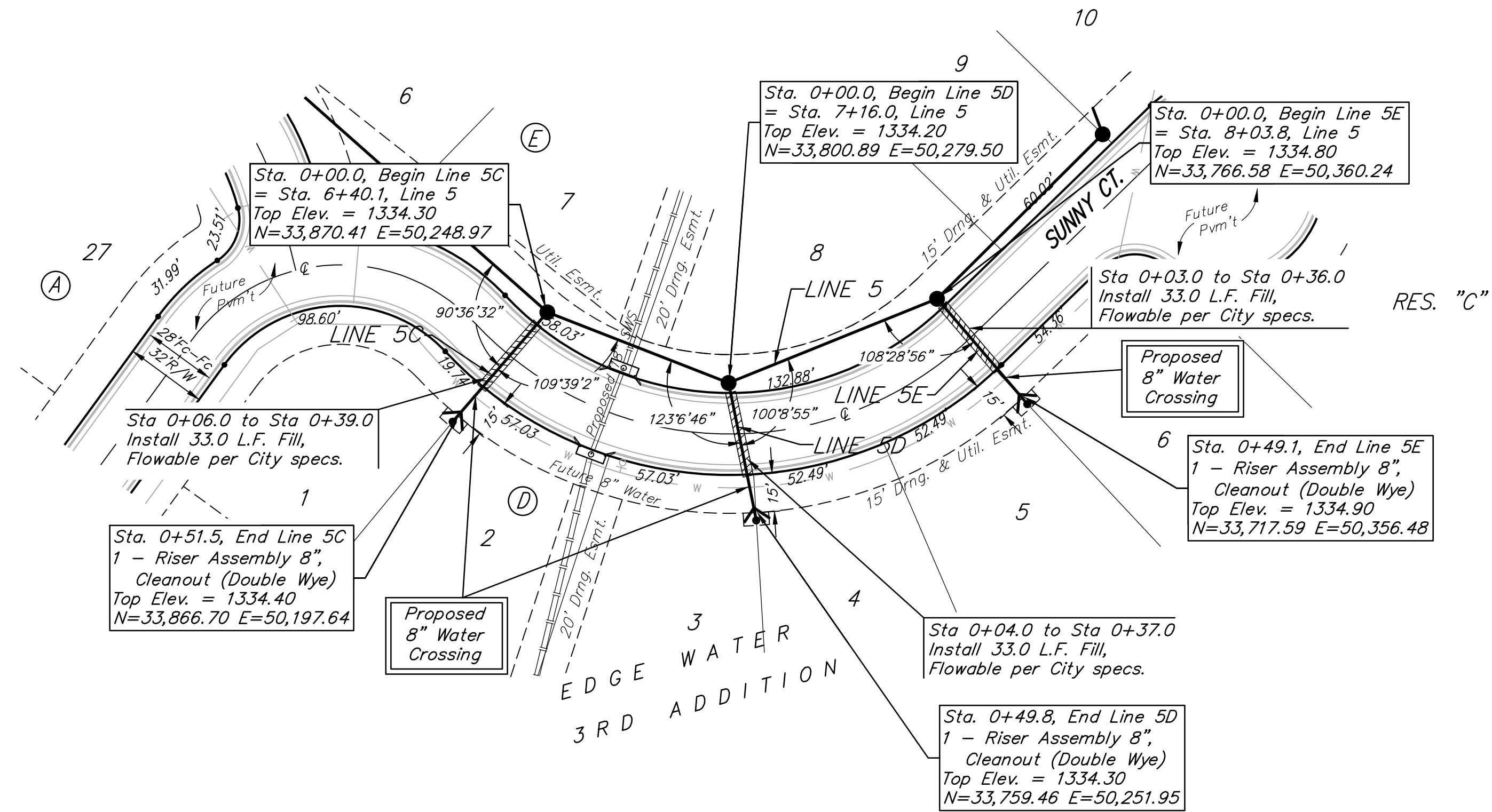
1326.95 = Flow Out (8" W)
 1327.05 = Flow In (8" E)
 1327.28 = Flow In (4" N)

1327.85 = Flow Out (8" W)
 1328.18 = Flow In (4" N)



BENCHMARK:
 BM #1: Brass disc at west end of west return at intersection of Driftwood & Driftwood Ct. (Lots 52-62, Block D), Edge Water Addition.
 Elev. = 1336.19 NGVD29

BM #2: (Temporary Benchmark) Baughman rebar found at NW corner of Lot 1, Block E, Edge Water Addition.
 Elev. = 1334.41 NGVD29



BENCHMARK:
 BM #1: Brass disc at west end of west return at intersection of Driftwood & Driftwood Ct. (Lots 52-62, Block D), Edge Water Addition.
 Elev. = 1336.19 NGVD29

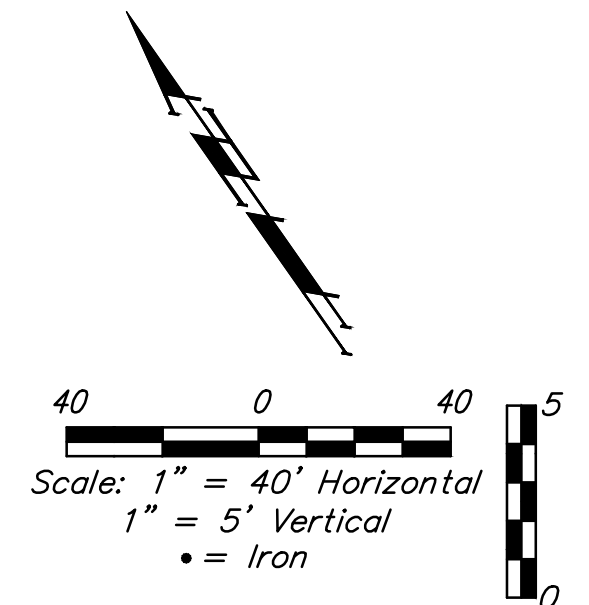
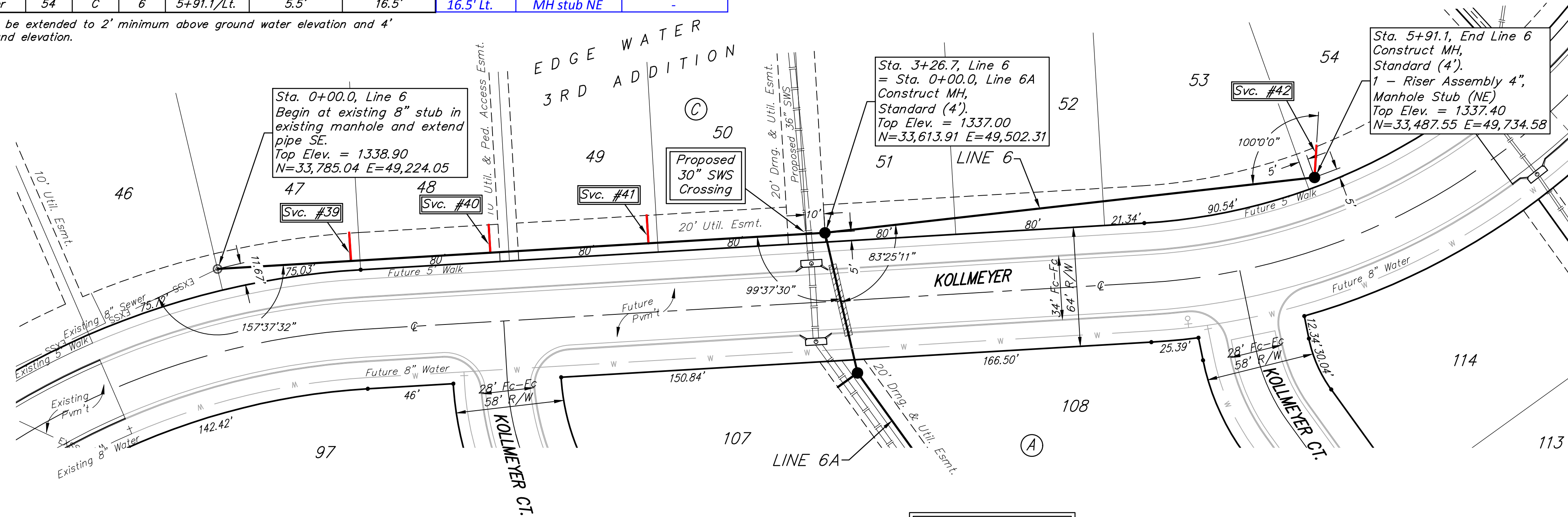
BM #2: (Temporary Benchmark) Baughman rebar found at NW corner of Lot 1, Block E, Edge Water Addition.
 Elev. = 1334.41 NGVD29

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY		Distance from		
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE		Main to Riser (Lt./Rt.)	Upstream MH	Downstream MH
39	8" X 4" Tee W/Riser	47	C	6	0+71.7/Lt.	9.5'	15.0'	12' Lt.	255'	72'
40	8" X 4" Tee W/Riser	48	C	6	1+46.7/Lt.	9.5'	15.0'	12' Lt.	180'	147'
41	8" X 4" Tee W/Riser	49	C	6	2+31.7/Lt.	8.0'	15.0'	12' Lt.	95'	232'
42	4" Stub W/Riser	54	C	6	5+91.1/Lt.	5.5'	16.5'	16.5' Lt.	MH stub NE	-

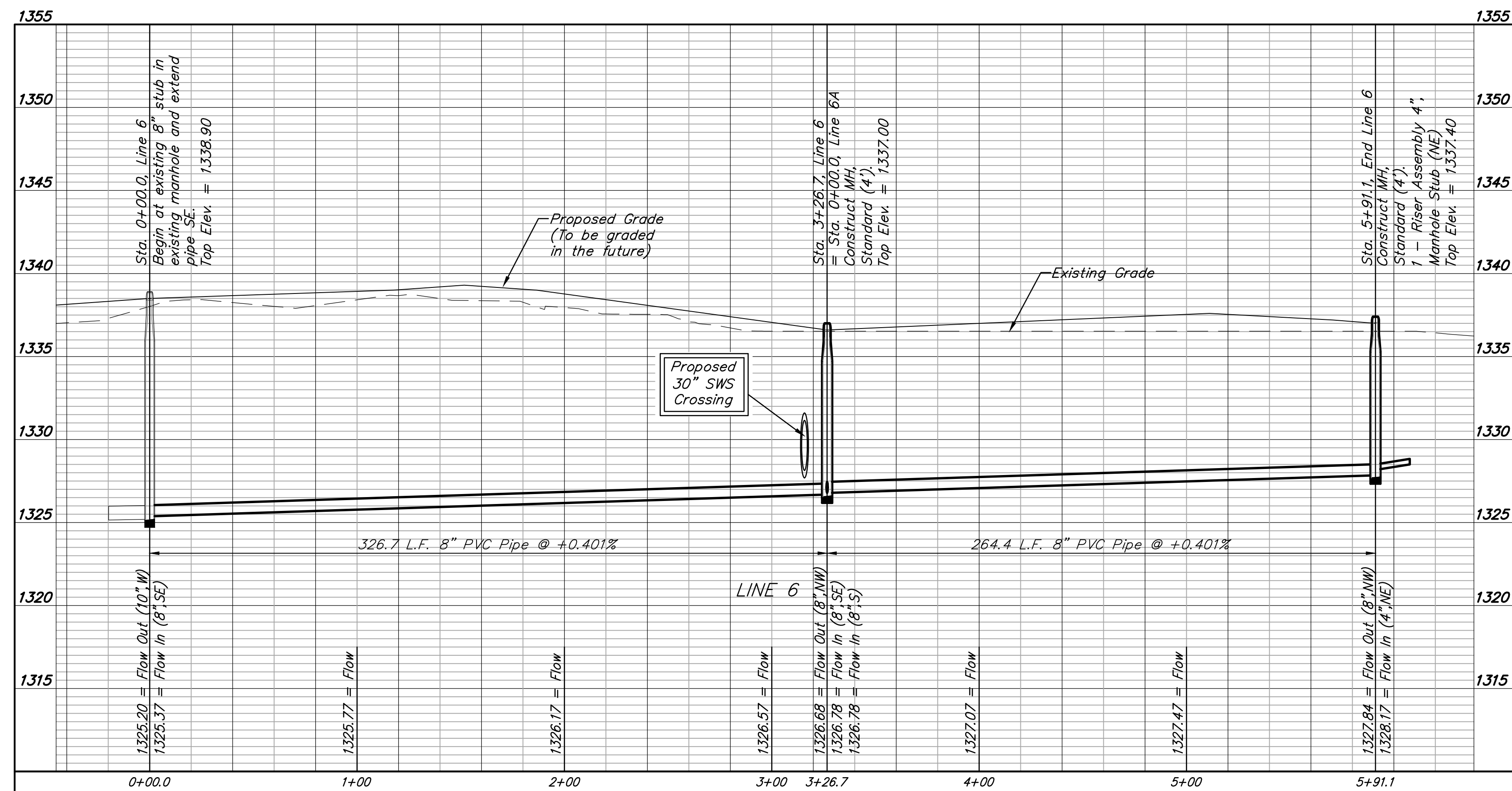
NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

All trench and manhole excavation areas from Sta. 0+00 to Sta. 5+91.1, Line 6 shall be backfilled with sand. The sand backfill shall be within two feet of existing grade and shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".



Verify depth of 30" storm sewer crossing prior to beginning construction of Line 6.

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



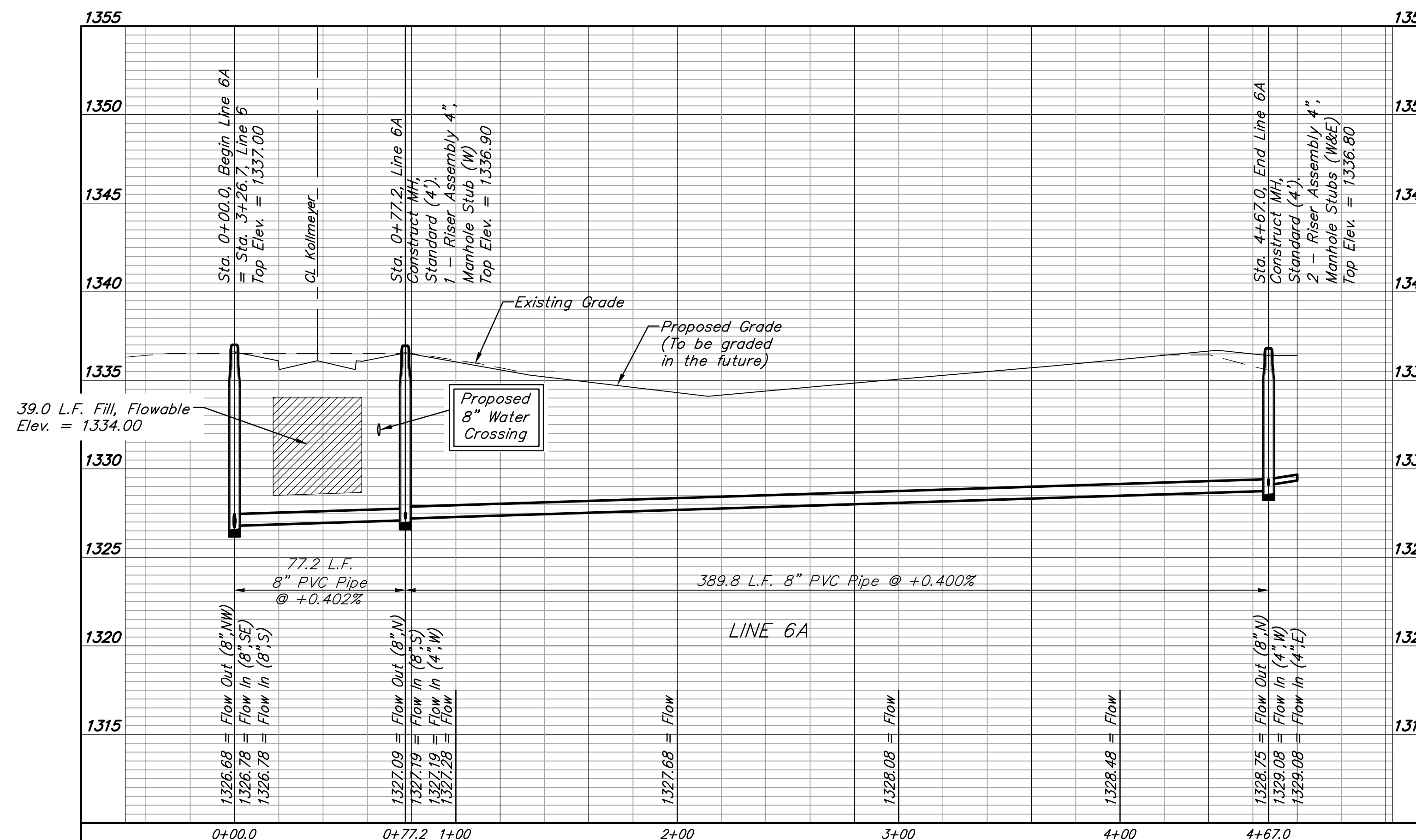
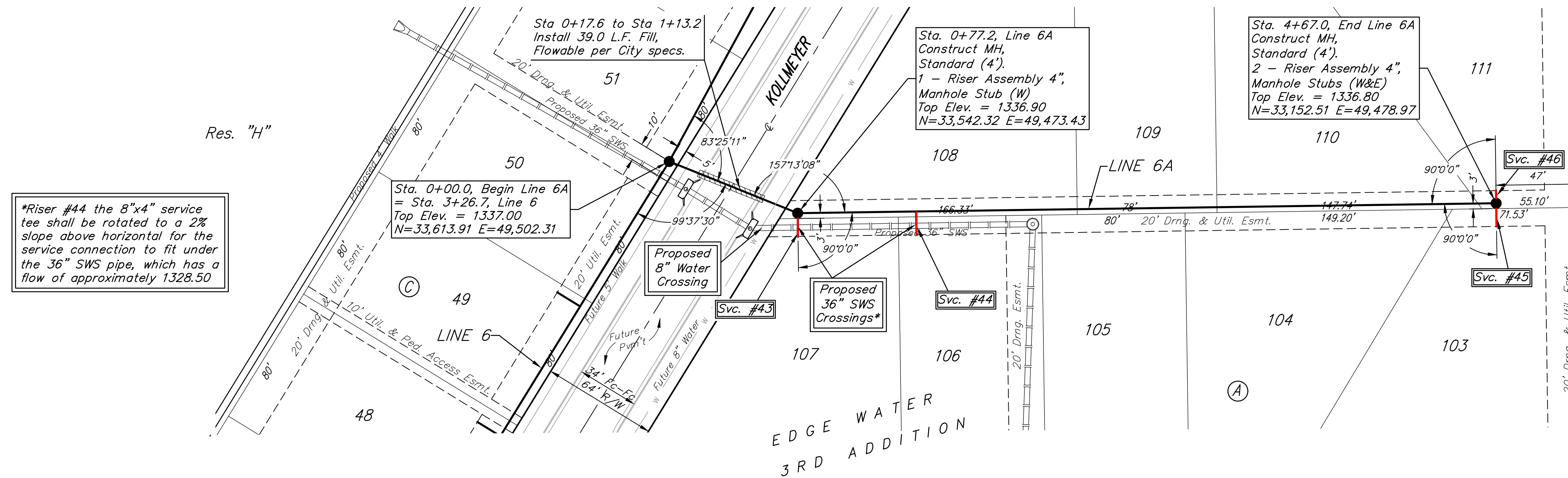
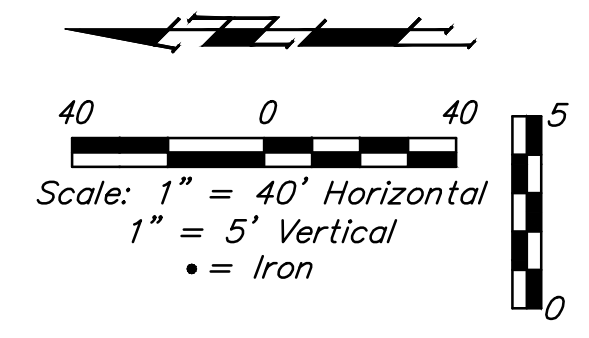
BENCHMARK:
 BM #1: Brass disc at west end of west return at intersection of Driftwood & Driftwood Ct. (Lots 52-62, Block D), Edge Water Addition.
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BM #2: (Temporary Benchmark) Baughman rebar found at NW corner of Lot 1, Block E, Edge Water Addition.
 Elev. = 1334.41 NGVD29

SEWER SERVICE TABLE

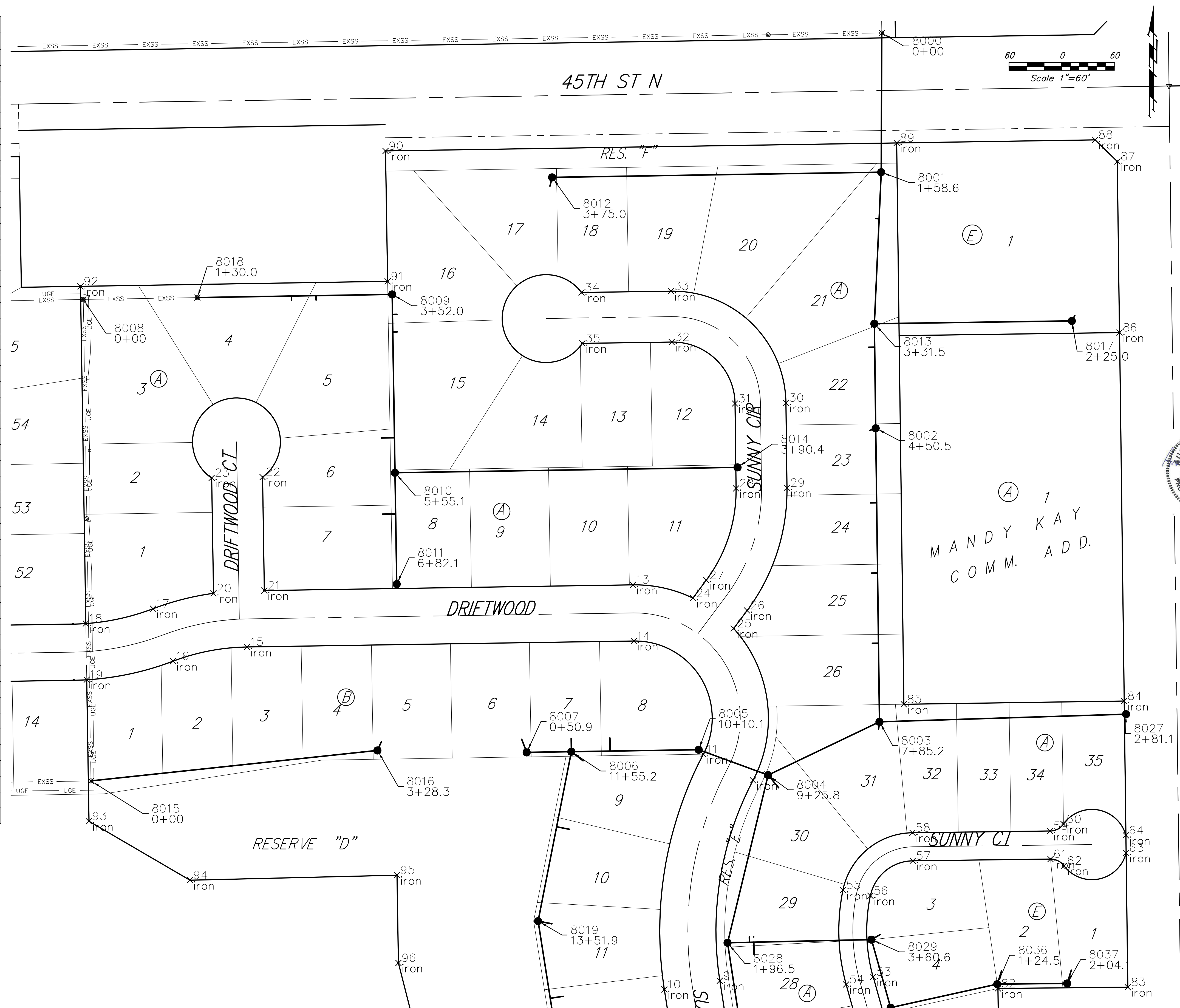
Distance from Main to Riser (Lt./Rt.)	Distance from		NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
	Upstream MH	Downstream MH			LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE	
13' Rt.	MH stub W	-	43	4" Stub W/Riser	107	A	6A	0+77.2/Rt.	5.5'	13.0'
13' Rt.	324'	66'	44	8" X 4" Tee W/Riser	106	A	6A	1+43.5/Rt.	4.0'	13.0'
13' Rt.	MH stub W	-	45	4" Stub W/Riser	103	A	6A	4+67.0/Rt.	4.0'	13.0'
7' Lt.	MH stub E	-	46	4" Stub W/Riser	111	A	6A	4+67.0/Lt.	4.0'	7.0'

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



Point Table			
Point #	Northing	Easting	Raw Description
1	33616.35	50513.27	iron
2	33525.36	50514.42	iron
3	33524.21	50424.43	iron
4	33615.21	50423.28	iron
5	33599.50	50328.47	iron
6	33535.65	50323.43	iron
7	33825.78	50020.55	iron
8	33835.71	50083.78	iron
9	34099.66	50042.33	iron
10	34089.74	49979.10	iron
11	34357.85	50023.53	iron
12	34328.06	50080.18	iron
13	34550.80	49943.31	iron
14	34486.80	49944.30	iron
15	34480.03	49503.72	iron
16	34463.81	49419.25	iron
17	34523.62	49396.47	iron
18	34506.73	49319.90	iron
19	34442.66	49320.92	iron
20	34541.20	49465.37	iron
21	34544.34	49523.33	iron
22	34673.57	49521.28	iron
23	34672.65	49463.29	iron
24	34535.75	50011.62	iron
25	34501.07	50058.11	iron
26	34521.57	50073.41	iron
27	34556.26	50026.92	iron
28	34660.69	50060.85	iron
29	34661.43	50118.84	iron
30	34758.16	50117.61	iron
31	34757.42	50059.61	iron
32	34827.51	49987.53	iron
33	34885.50	49986.64	iron
34	34883.93	49884.73	iron
35	34825.94	49885.63	iron
36	33964.56	50063.54	iron
37	33932.94	50068.51	iron
38	33945.00	50145.31	iron
39	33976.62	50140.34	iron
40	33886.67	50241.94	iron
41	33887.77	50209.96	iron
42	33730.58	50359.73	iron
43	33762.58	50360.18	iron
44	33729.82	50413.95	iron
45	33714.10	50432.40	iron
46	33761.00	50472.36	iron
47	33946.14	50221.49	iron
48	33968.12	50219.78	iron
49	33984.60	50192.35	iron
50	33975.79	50172.14	iron

Point Table			
Point #	Northing	Easting	Raw Description
51	34044.61	50200.46	iron
52	34053.21	50231.28	iron
53	34104.05	50217.09	iron
54	34095.44	50186.27	iron
55	34202.90	50182.59	iron
56	34196.43	50213.93	iron
57	34236.30	50262.26	iron
58	34268.30	50261.85	iron
59	34270.29	50418.72	iron
60	34278.22	50433.92	iron
61	34238.30	50419.13	iron
62	34230.76	50434.52	iron
63	34245.39	50505.27	iron
64	34265.39	50505.02	iron
65	33644.54	50108.33	iron
66	33601.77	50155.94	iron
67	33535.49	50096.40	iron
68	33578.26	50048.79	iron
69	33475.59	49854.47	iron
70	33412.16	49862.97	iron
71	33409.03	49826.25	iron
72	33436.33	49954.67	iron
73	33462.06	50006.83	iron
74	33408.07	50024.91	iron
75	33395.98	49968.11	iron
76	33144.81	49830.01	iron
77	33207.82	50175.26	iron
78	33232.68	50375.13	iron
79	33234.38	50518.12	iron
80	33884.41	50509.86	iron
81	33882.57	50361.87	iron
82	34090.91	50359.20	iron
83	34092.39	50507.22	iron
84	34418.39	50503.07	iron
85	34414.76	50252.00	iron
86	34838.32	50497.74	iron
87	35033.28	50495.28	iron
88	35057.89	50469.96	iron
89	35054.35	50243.84	iron
90	35045.22	49661.40	iron
91	34896.67	49663.76	iron
92	34890.96	49313.81	iron
93	34281.39	49323.47	iron
94	34214.29	49438.60	iron
95	34219.93	49674.49	iron
96	34119.94	49676.08	iron
97	33850.09	49744.71	iron
98	33772.07	49782.21	iron
99	33602.14	49837.51	iron

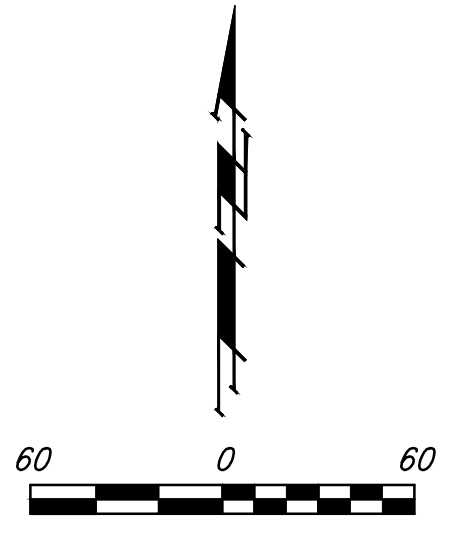
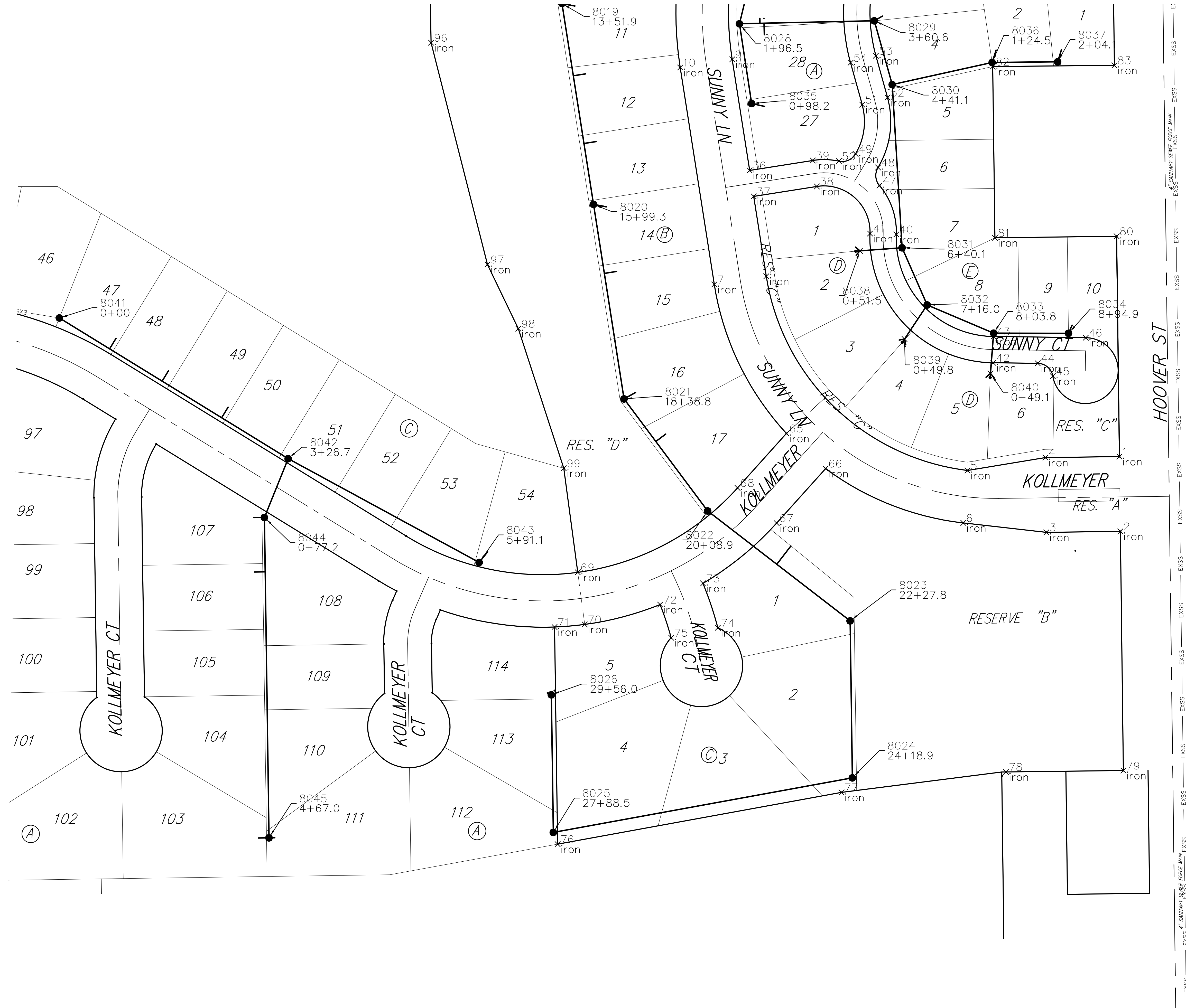


Baughman Company, P.A.
 HAS THE QUALITY OF DESIGN, PLANNING, ENGINEERING, ARCHITECTURE, INTERIOR DESIGN, LANDSCAPE ARCHITECTURE, AND SURVEYING.
Mandy Kay
 PROFESSIONAL ENGINEER
 License No. 17919
 State of Kansas
 3/1/2019

EDGE WATER 3RD/EDGE WATER
COORDINATE SHEET
 SANITARY SEWER IMPROVEMENTS

SANITARY SEWER

Point Table			
Point #	Northing	Eastng	Row Description
8000	35179.69	50226.87	0+00
8001	35021.07	50226.26	1+58.6
8002	34729.33	50219.99	4+50.5
8003	34394.74	50224.26	7+85.2
8004	34334.00	50097.39	9+25.8
8005	34362.93	50018.26	10+10.1
8006	34360.69	49873.18	11+55.2
8007	34359.91	49822.29	0+50.9
8008	34876.01	49317.04	0+00
8009	34881.75	49669.00	3+52.0
8010	34678.64	49672.22	5+55.1
8011	34551.66	49674.23	6+82.1
8012	35015.19	49851.28	3+75.0
8013	34848.36	50218.47	3+31.5
8014	34684.65	50062.54	3+90.4
8015	34327.40	49325.74	0+00
8016	34362.14	49652.23	3+28.3
8017	34851.55	50443.45	2+25.0
8018	34878.13	49447.03	1+30.0
8019	34167.61	49835.28	13+51.9
8020	33923.24	49873.65	15+99.3
8021	33686.60	49910.81	18+38.8
8022	33550.24	50012.50	20+08.9
8023	33416.54	50185.74	22+27.8
8024	33225.48	50188.45	24+18.9
8025	33159.11	49824.80	27+88.5
8026	33326.58	49822.42	29+56.0
8027	34403.42	50505.27	2+81.1
8028	34142.97	50051.14	1+96.5
8029	34146.55	50215.14	3+60.6
8030	34069.03	50236.97	4+41.1
8031	33870.41	50248.97	6+40.1
8032	33800.89	50279.50	7+16.0
8033	33766.58	50360.24	8+03.8
8034	33766.30	50451.36	8+94.9
8035	34045.91	50065.95	0+98.2
8036	34095.90	50358.56	1+24.5
8037	34096.70	50438.15	2+04.1
8038	33866.70	50197.64	0+51.5
8039	33759.46	50251.95	0+49.8
8040	33717.59	50356.48	0+49.1
8041	33785.04	49224.05	0+00
8042	33613.91	49502.31	3+26.7
8043	33487.55	49734.58	5+91.1
8044	33542.32	49473.43	0+77.2
8045	33152.51	49478.97	4+67.0



Justin G. O'Connell
 License No. 17919
 State of Kansas
 3/11/2019
 Professional Engineer

EDGE WATER 3RD/EDGE WATER
COORDINATE SHEET
 SANITARY SEWER IMPROVEMENTS