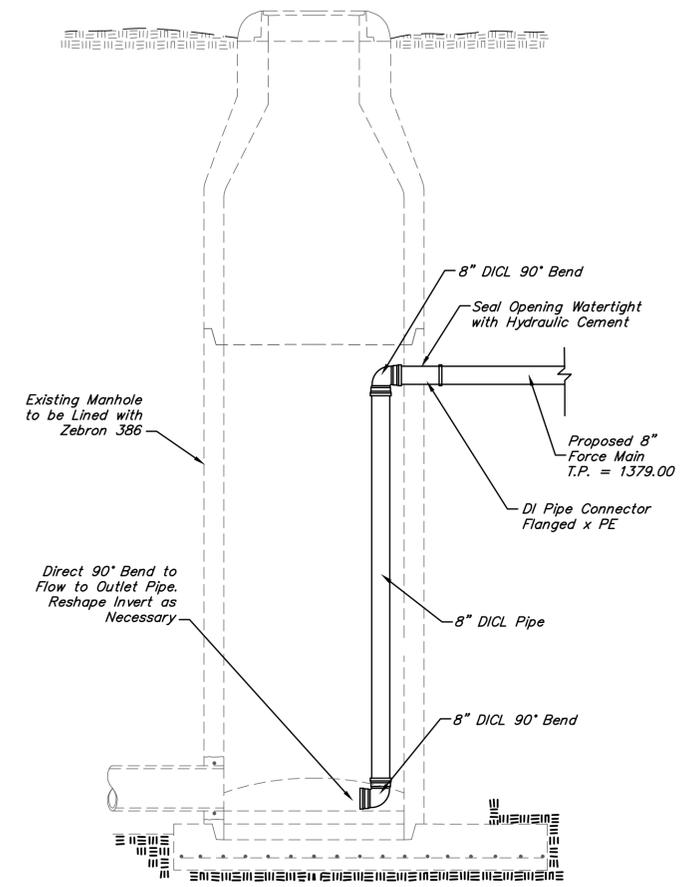
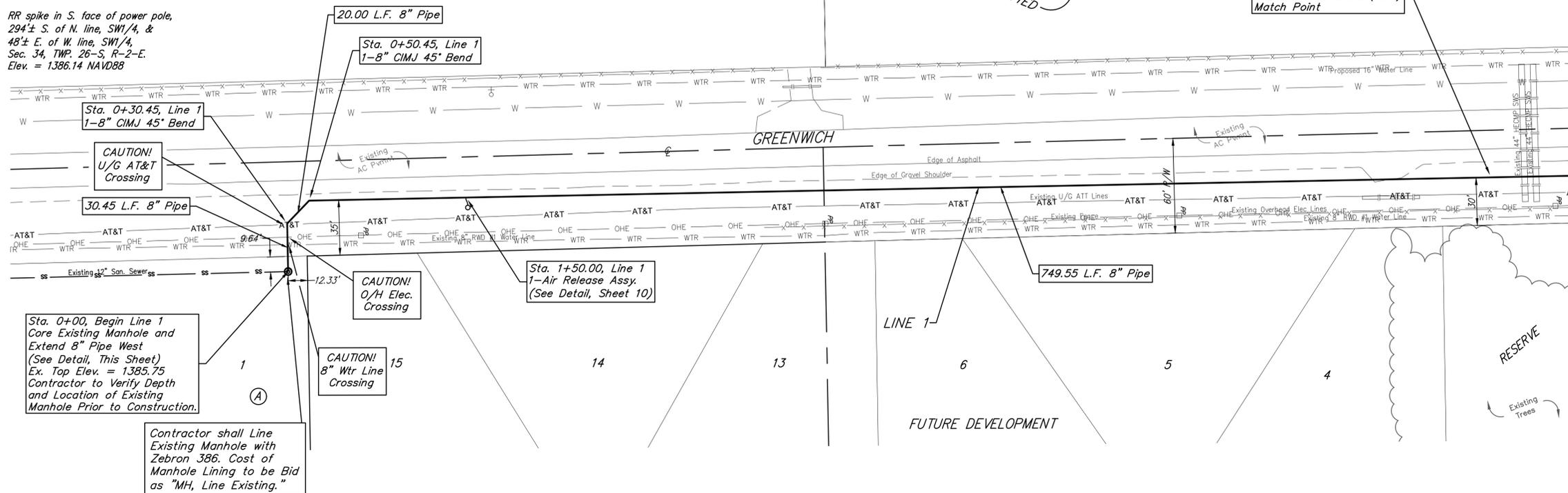
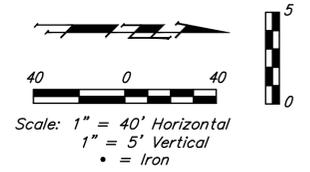




**BENCHMARKS:**  
 RR spike in asphalt, SW COR., N1/2, SW1/4, Sec. 34, TWP. 26-S, R-2-E.  
 Elev. = 1400.59 NAVD88

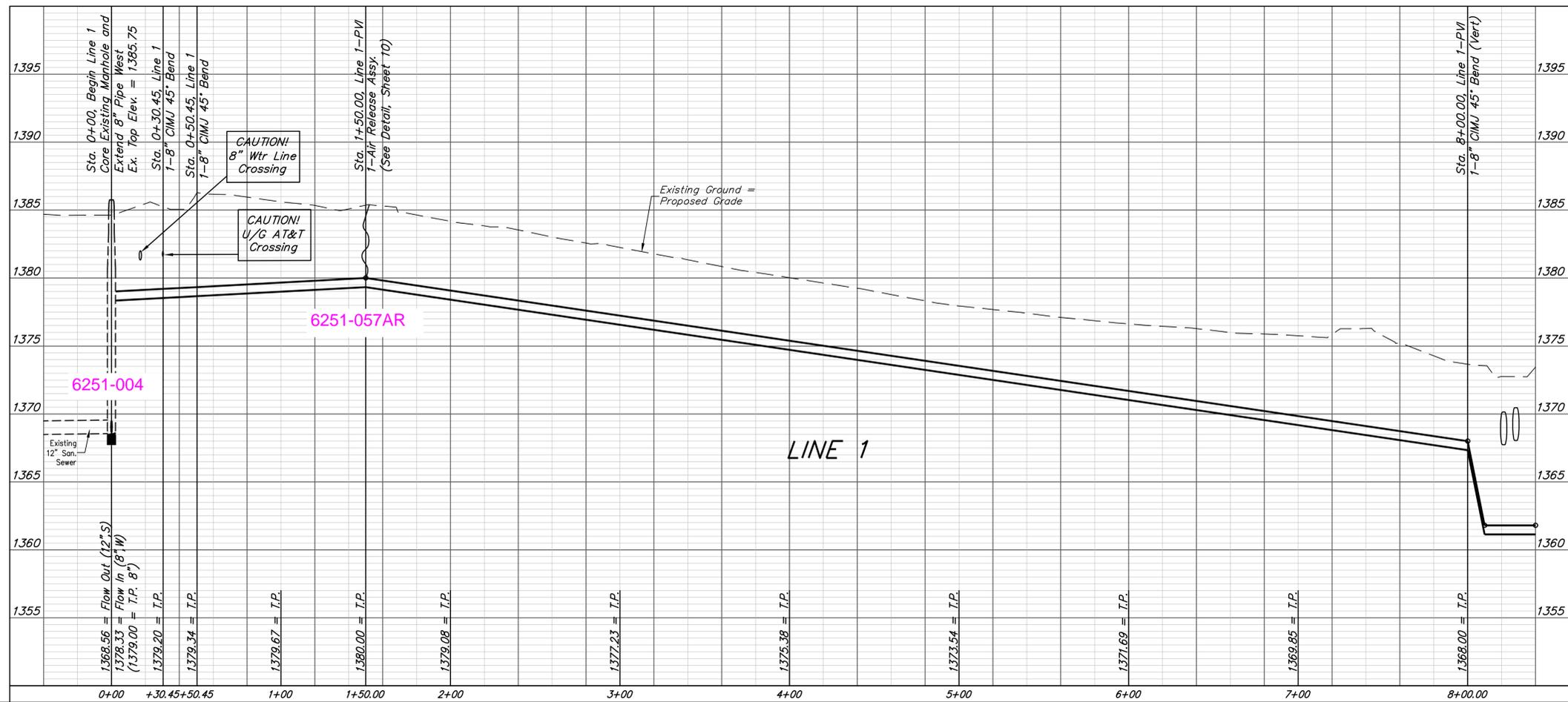
RR spike in E. face of power pole, 174± N. of S. line, N1/2, SW1/4 & 49± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E.  
 Elev. = 1398.64 NAVD88

RR spike in S. face of power pole, 294± S. of N. line, SW1/4, & 49± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E.  
 Elev. = 1386.14 NAVD88



**Sta 0+00, Line 1  
 FORCE MAIN CONNECTION DETAIL**  
 No Scale

Note: Pipe shall be Anchored Securely to Wall of Manhole. 90° Elbow at Base of Manhole shall be Directed to Discharge Flow in Direction of 12" Outlet Pipe and Invert shall be Re-shaped as Necessary. All Costs Associated with Manhole Connections, Piping Inside Manhole and Invert Re-shaping shall be Included in Bid Item "MH, Connect to Existing."



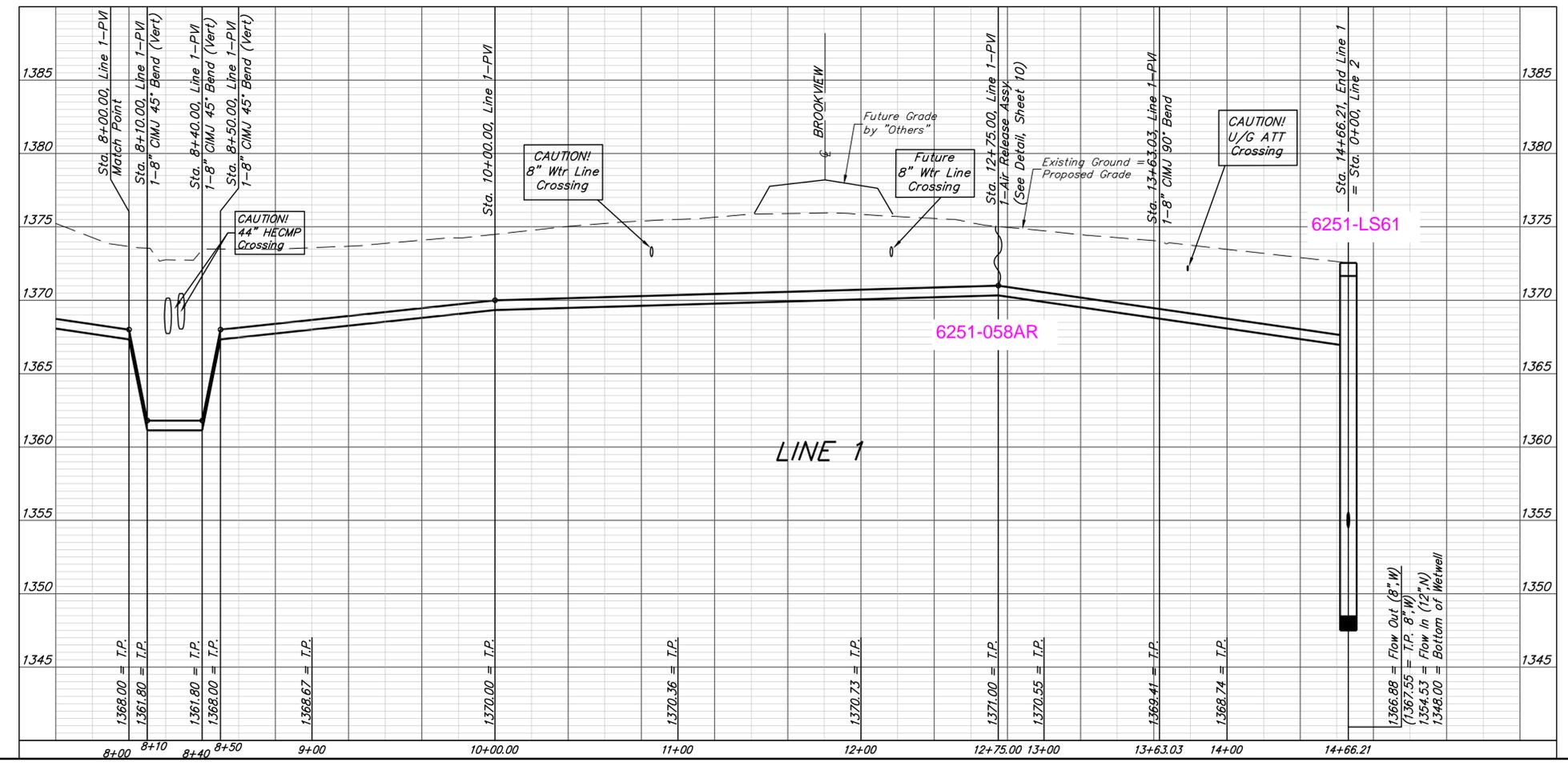
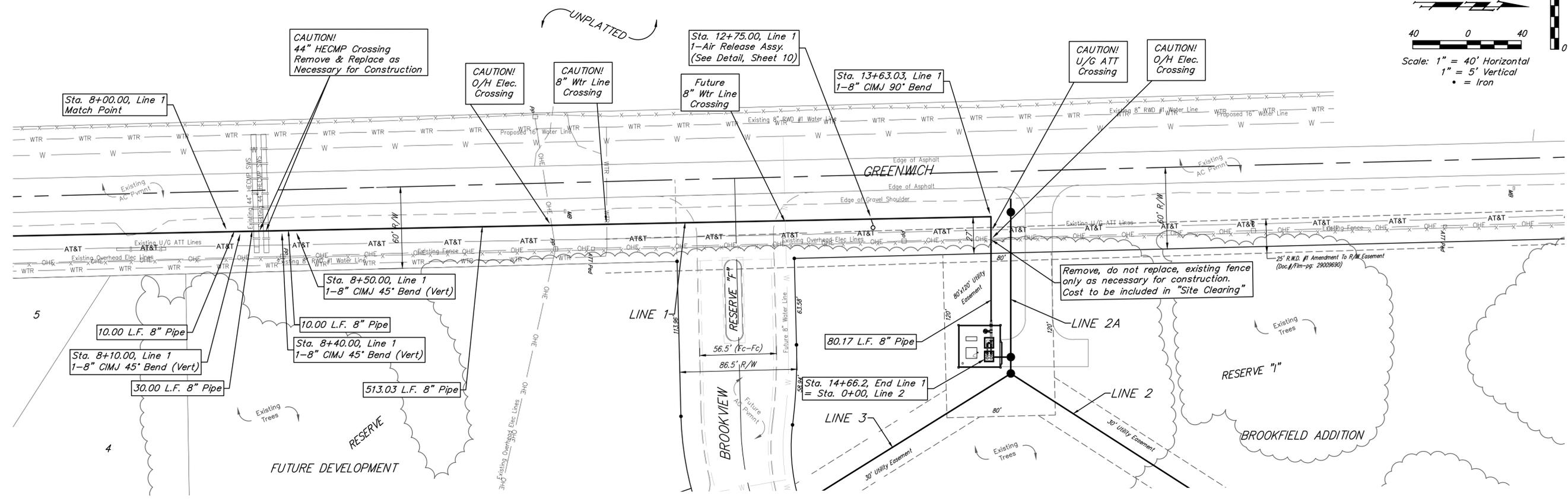
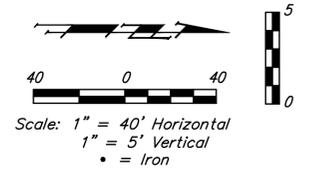
	Baughman ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE
	PROJECT NUMBER 46025119
REVISIONS:	DESIGN: AEG DRAWN: JAK APPROVED: [Signature] DATE: 4/25/17
SCALE: Nil SHEET:	2 OF 24



**BENCHMARKS:**  
 RR spike in asphalt, SW COR., N1/2, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1400.59 NAVD88

RR spike in E. face of power pole, 174± N. of S. line, N1/2, SW1/4 & 49± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1398.64 NAVD88

RR spike in S. face of power pole, 294± S. of N. line, SW1/4, & 48± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1386.14 NAVD88

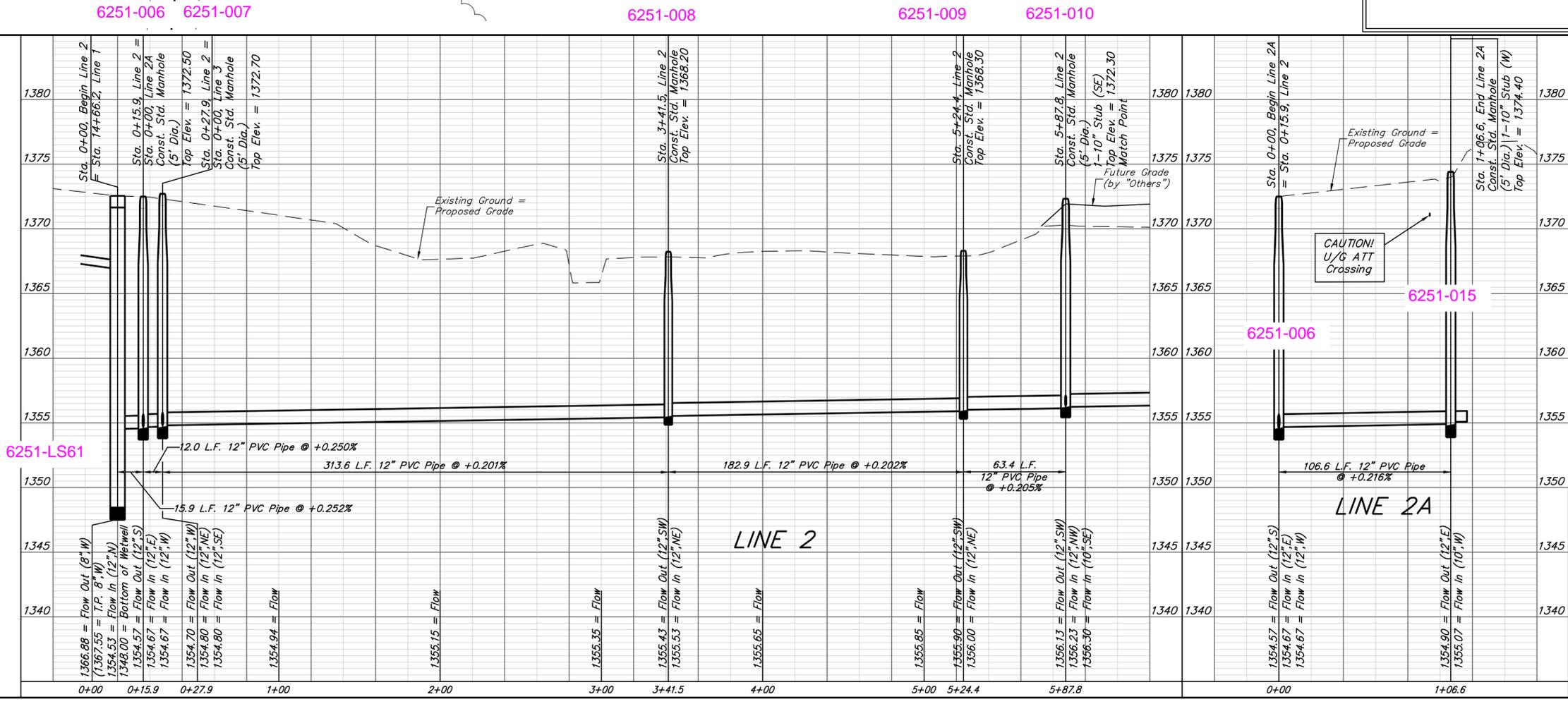
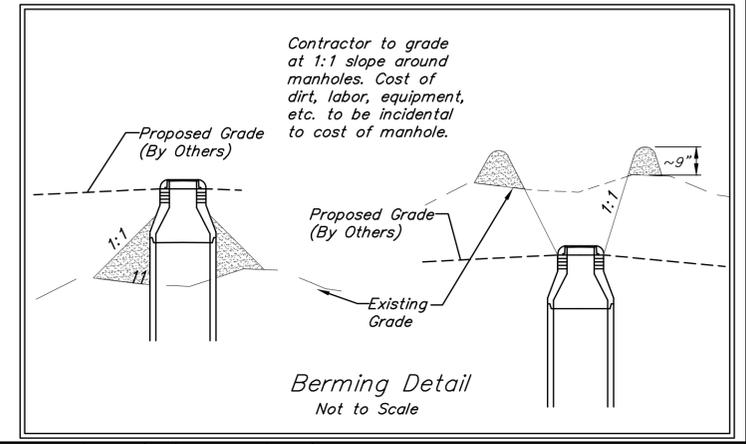
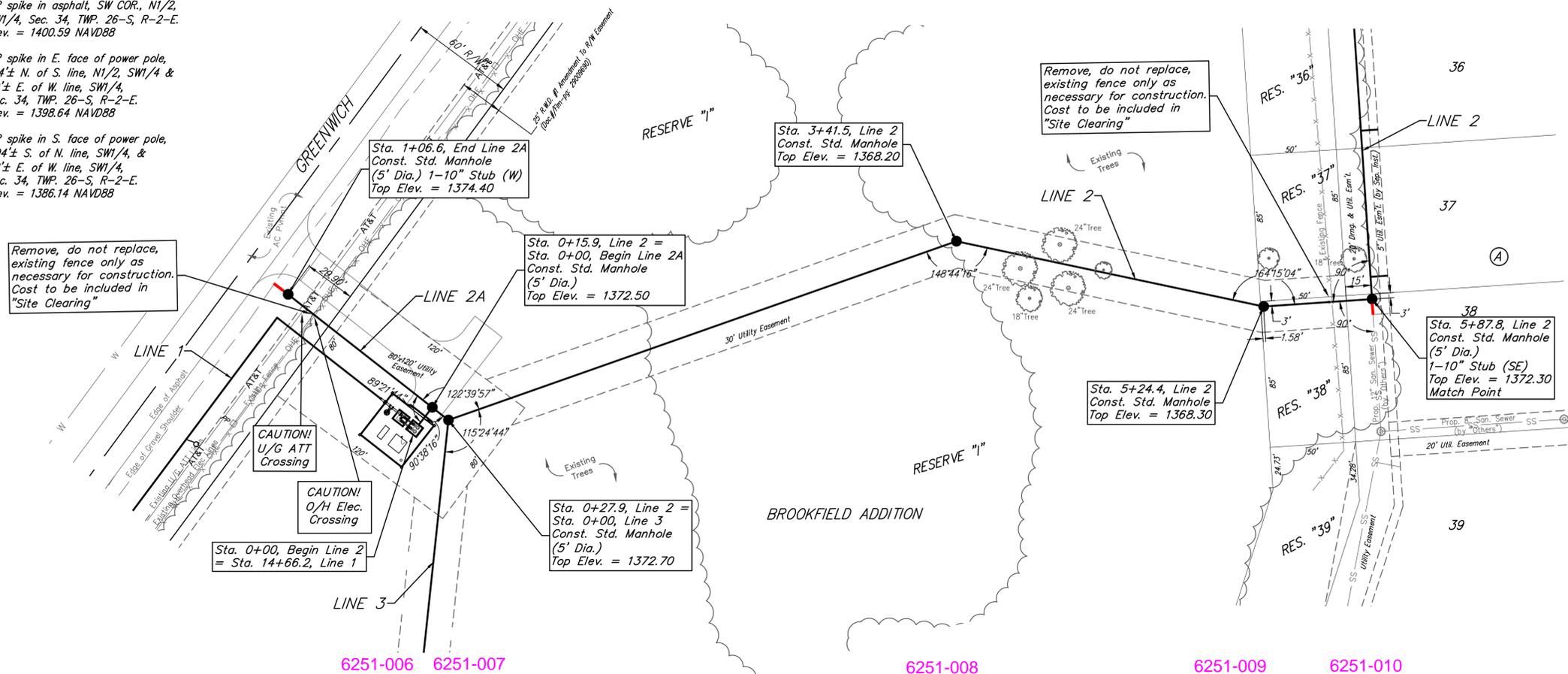
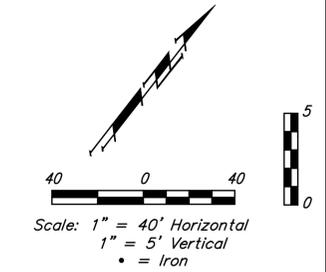


	Brookfield Addition <b>LINE 1</b> Sanitary Sewer Installation	
	Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149 ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE	
PROJECT NUMBER 46025189	DESIGN AEG	DRAWN JAK
REVISIONS:	APPROVED [Signature]	DATE 4/25/17
SCALE Noted SHEET		<b>3 OF 24</b>

**BENCHMARKS:**  
 RR spike in asphalt, SW COR., N1/2, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1400.59 NAVD88

RR spike in E. face of power pole, 174± N. of S. line, N1/2, SW1/4 & 49± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1398.64 NAVD88

RR spike in S. face of power pole, 294± S. of N. line, SW1/4, & 48± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1386.14 NAVD88



**Baughman** Engineering, Planning & Landscape Architecture

**LINE 2 & LINE 2A**  
 Sanitary Sewer Installation Plans

PROJECT NUMBER: 460519  
 DESIGN: AEG  
 DRAWN: JAK  
 APPROVED: [Signature]  
 DATE: 4/25/17  
 SCALE: Not to Scale  
 SHEET: 4 OF 24

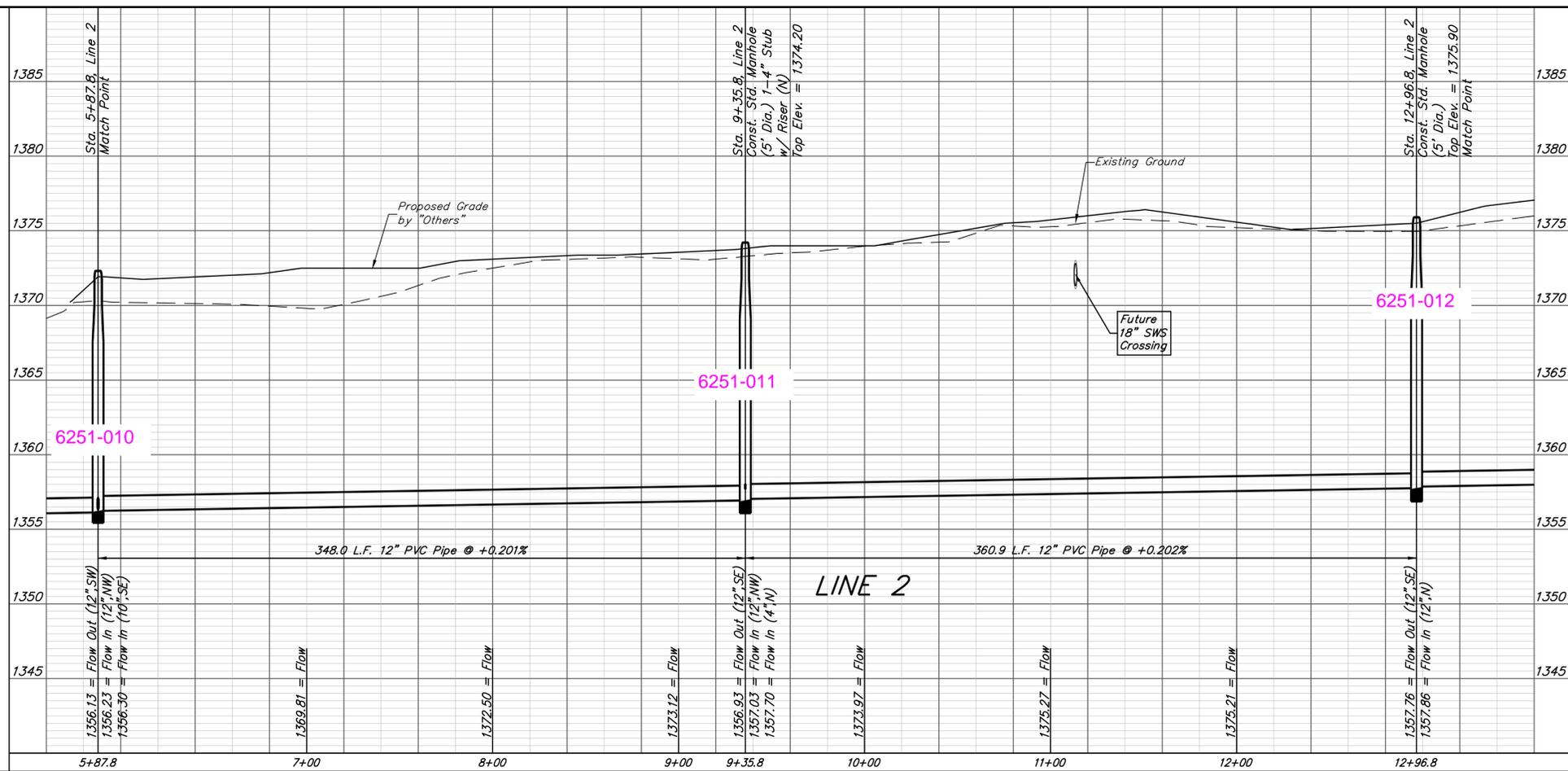
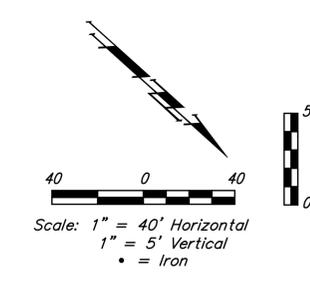
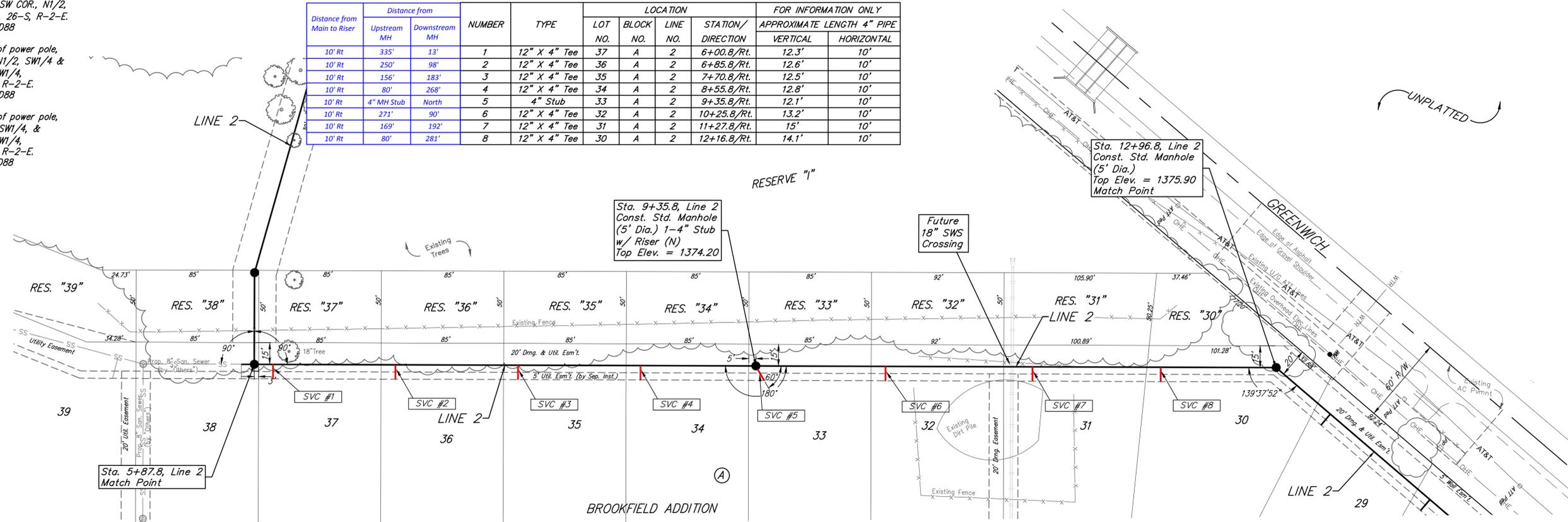
BENCHMARKS:  
 RR spike in asphalt, SW COR., N1/2, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1400.59 NAVD88

RR spike in E. face of power pole, 174± N. of S. line, N1/2, SW1/4 & 49± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1398.64 NAVD88

RR spike in S. face of power pole, 294± S. of N. line, SW1/4, & 48± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1386.14 NAVD88

SEWER SERVICE TABLE

Distance from Main to Riser	Distance from		NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
	Upstream MH	Downstream MH			LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	VERTICAL
10' Rt	335'	13'	1	12" X 4" Tee	37	A	2	6+00.8/Rt.	12.3'	10'
10' Rt	250'	98'	2	12" X 4" Tee	36	A	2	6+85.8/Rt.	12.6'	10'
10' Rt	156'	183'	3	12" X 4" Tee	35	A	2	7+70.8/Rt.	12.5'	10'
10' Rt	80'	268'	4	12" X 4" Tee	34	A	2	8+55.8/Rt.	12.8'	10'
10' Rt	4" MH Stub	North	5	4" Stub	33	A	2	9+35.8/Rt.	12.1'	10'
10' Rt	271'	90'	6	12" X 4" Tee	32	A	2	10+25.8/Rt.	13.2'	10'
10' Rt	169'	192'	7	12" X 4" Tee	31	A	2	11+27.8/Rt.	15'	10'
10' Rt	80'	281'	8	12" X 4" Tee	30	A	2	12+16.8/Rt.	14.1'	10'



**Baughman** | Brookfield Addition  
**LINE 2**  
 Sanitary Sewer Installation Plans

Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149  
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER: 4615119  
 DESIGN: AEG  
 DRAWN: JAK  
 APPROVED: [Signature]  
 DATE: 4/25/17

REVISIONS:

SCALE: Noted  
 SHEET: 5 OF 24

E:\Projects\Brookfield Addition\_1604P190\Engineering\SS MAIN\_1608E5540\SS PLANS.dwg

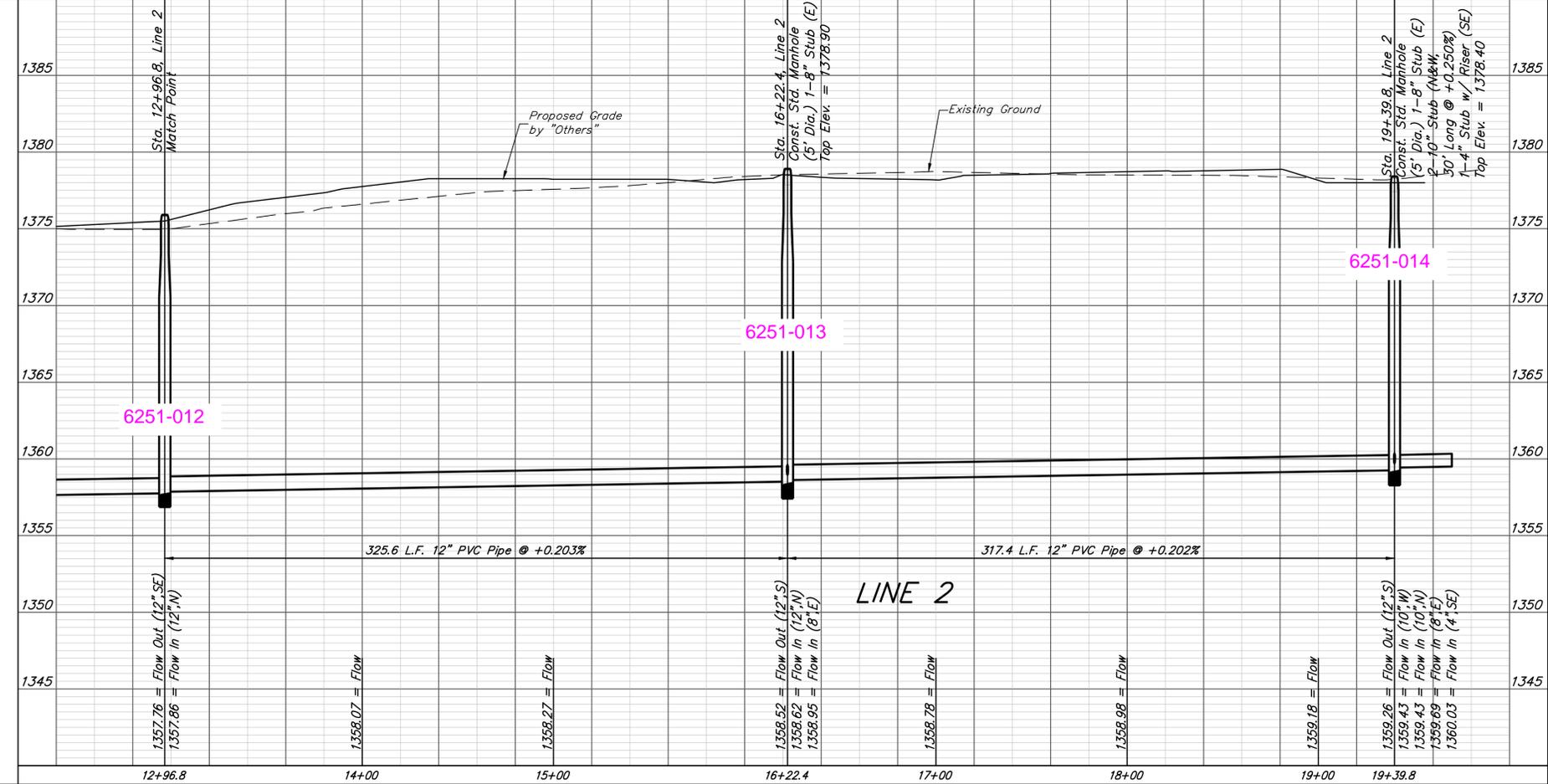
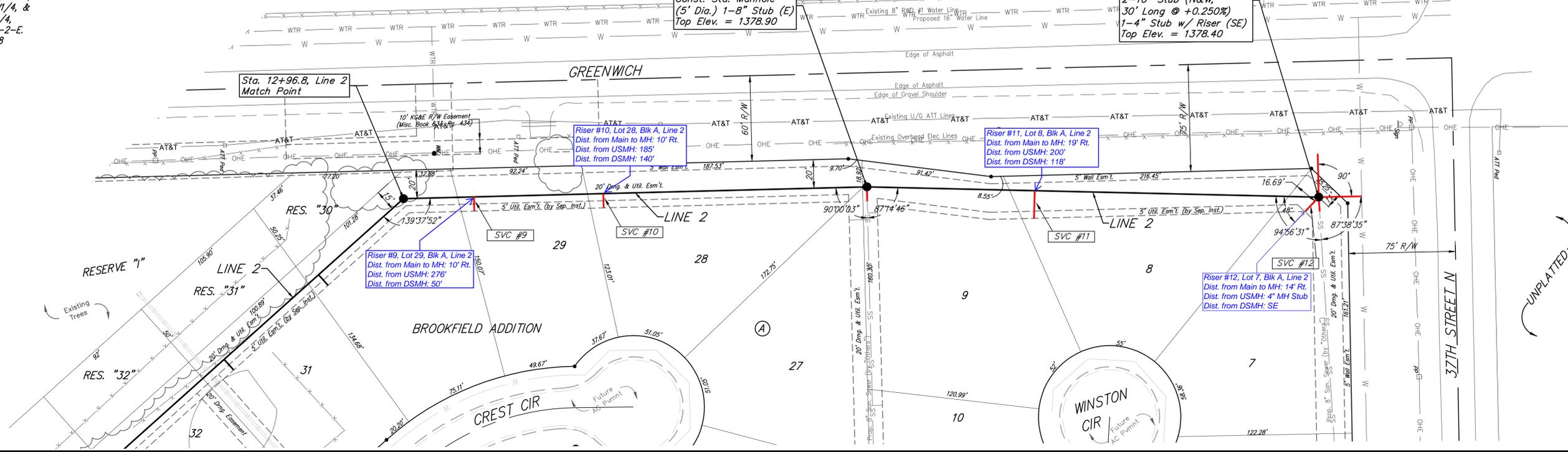
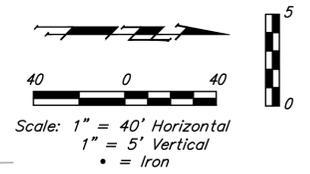
BENCHMARKS:  
 RR spike in asphalt, SW COR., N1/2, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1400.59 NAVD88

RR spike in E. face of power pole, 174± N. of S. line, N1/2, SW1/4 & 49± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1398.64 NAVD88

RR spike in S. face of power pole, 294± S. of N. line, SW1/4, & 48± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1386.14 NAVD88

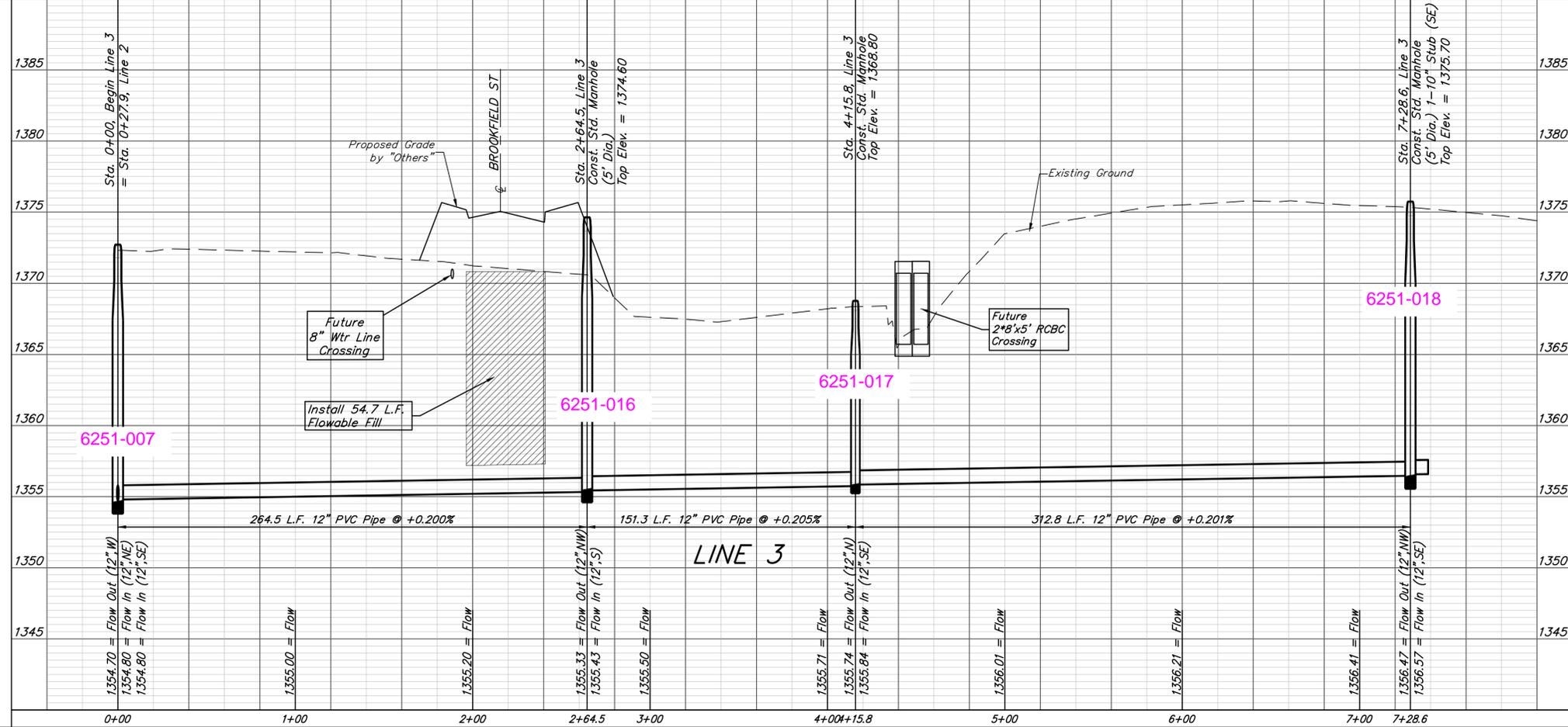
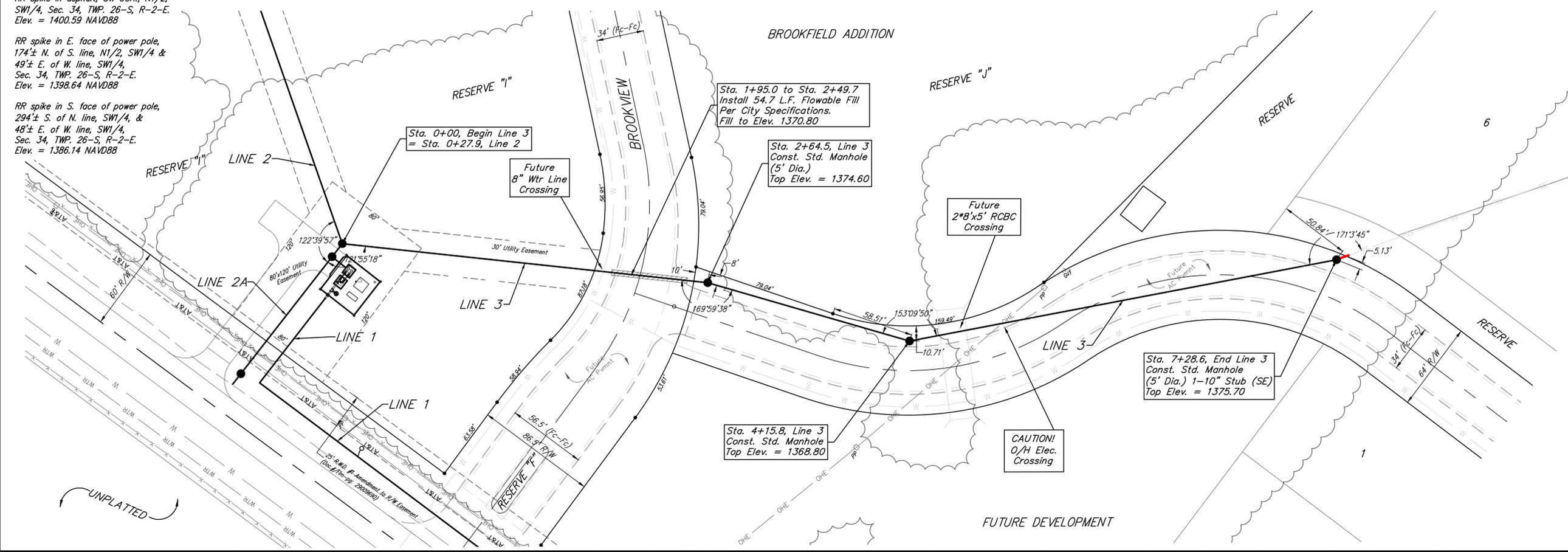
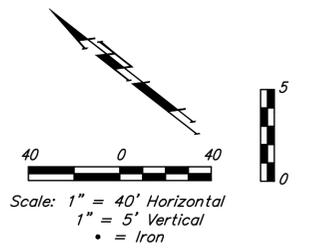
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROXIMATE LENGTH 4" PIPE	VERTICAL
9	12" X 4" Tee	29	A	2	13+46.3/Rt.	15.1'	10'
10	12" X 4" Tee	28	A	2	14+37.2/Rt.	16.3'	10'
11	12" X 4" Tee	8	A	2	17+40.3/Rt.	16.4'	19'
12	4" Stub	7	A	2	19+39.8/Rt.	14.7'	14'

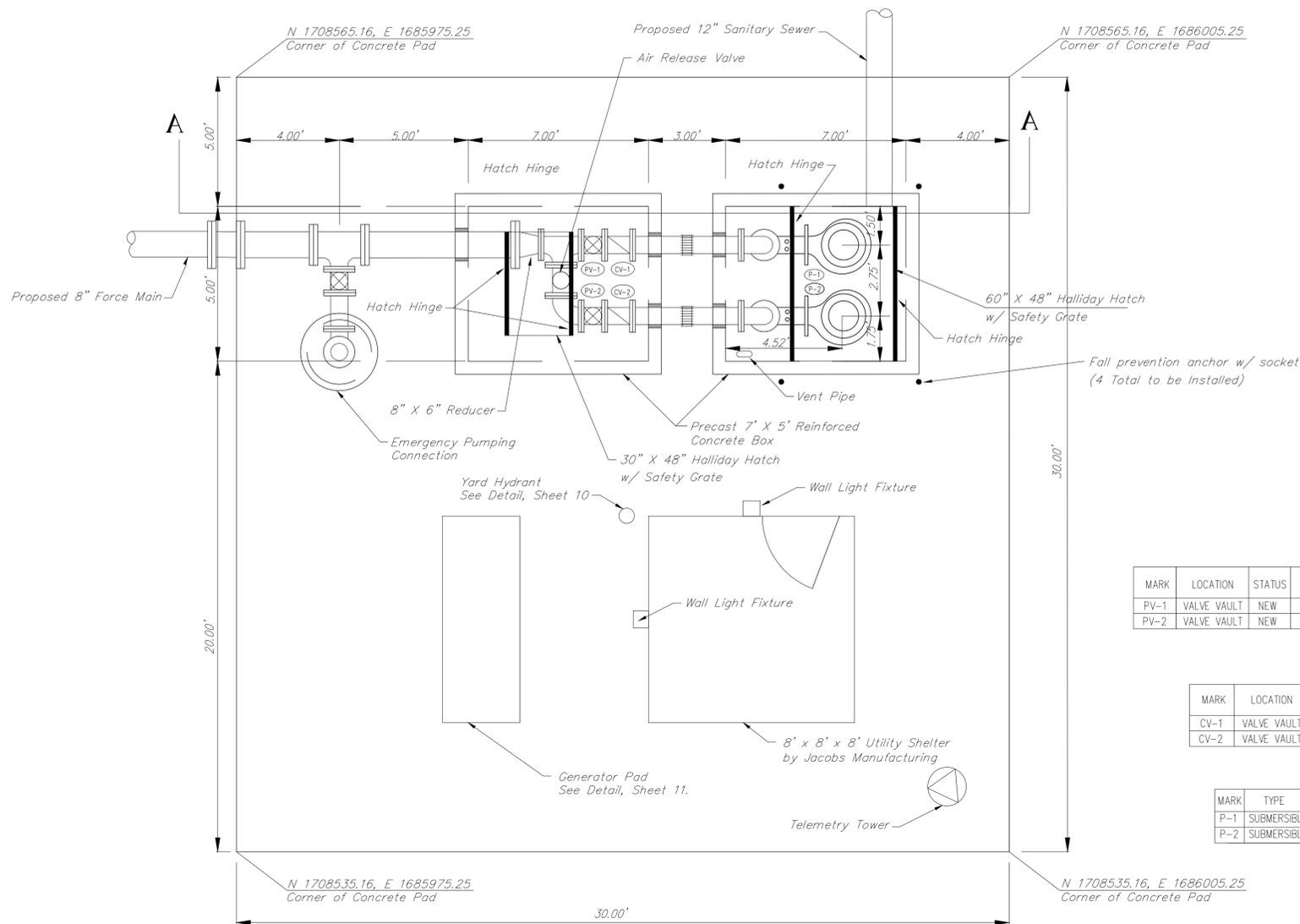


	Baughman ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE
	PROJECT NUMBER 4605119
REVISIONS:	DESIGN: AEG DRAWN: JAK APPROVED: [Signature] DATE: 4/25/17
SCALE: N/A SHEET:	<b>6 OF 24</b>

**BENCHMARKS:**  
 RR spike in asphalt, SW COR., N1/2, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1400.59 NAVD88  
 RR spike in E. face of power pole, 174± N. of S. line, N1/2, SW1/4 & 49± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1398.64 NAVD88  
 RR spike in S. face of power pole, 294± S. of N. line, SW1/4, & 48± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1386.14 NAVD88



	<b>Brookfield Addition</b> <b>LINE 3</b> Sanitary Sewer Installation Plans	
	Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149 ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE	
PROJECT NUMBER 461519	DESIGN AEG	DRAWN JAK
REVISIONS:	APPROVED 	DATE 4/25/17
SCALE Noted SHEET		<b>7 OF 24</b>



**PLAN VIEW**  
(No Scale)

- The Price Bid for Furnishing and Installing the Lift Station, including the Wet Well, Valve Vault, and Other Miscellaneous Appurtenances, shall include All Costs for Furnishing and Installing the Lift Station as Indicated in the Plans Complete in Place and in Operation. This Price shall include the Cost of Constructing and/or Installing Compacted Subgrade, Concrete Pavement, Electrical Conduit, Electrical Wiring, Disconnect Switch, Pump Controls, Electrical Power Supply, Finished Grading, Concrete Slump Block Wall, and any Other Incidentals Necessary to Complete the Work and Place the Lift Station into Satisfactory Operation. The Price Bid shall include All Sanitary Sewer Pipe and Force Main Extended Outside the Slab as Shown in the Site Plan and Details.
- All Force Main Piping shall be Ductile Iron (Flanged) to 5' Outside the Structures, Unless Otherwise Noted. All Interior Piping shall be Cement Lined and Epoxy Coated Ductile Iron Pipe.
- Pipe Penetrations Thru the Wet Well, Valve Vault, and Concrete Pad shall be Grouted Watertight With Non-Shrink Grout and Water Stop Gaskets as Required.
- The Contractor shall perform an Exfiltration Test on the complete Wet Well. The Wet Well shall be tested individually by securely plugging all inlet and outlet pipes. The Wet Well shall be filled to its full depth and then observed for at least six (6) hours. Exfiltration loss from the 6-foot diameter Wet Well shall not exceed the rate of 1.70 Gallons per foot of Wet Well depth per day. If exfiltration exceeds the maximum limits, the Contractor shall repair the leaks and defects, and then retest.
- The Contractor shall support all piping inside the Wet Well and Valve Vault as required.
- All hardware inside the Wet Well and Valve Vault, including but not limited to the Guide Bar, Hoist Chain, Chain Catch, etc. shall be stainless steel. 316 Stainless Steel shall be used when available, otherwise 304 Stainless Steel is acceptable. Nylon Rope will not be allowed in the Wet Well.
- Wet Well and Valve Vault design shall be subject to the same design requirements as Precast Manholes.
- The interior of the Wet Well shall be lined Zebtron 386.
- Backfill around the Wet Well and under the Valve Vault and Pad shall be a low volume change material compacted to 95% ASTM D-1557.
- The Contractor shall coordinate with Westar Energy and Kansas Gas Service to extend electric and gas services to the Pump Station Site. The Contractor shall verify the electrical and gas service costs & requirements PRIOR to Bidding. ALL COST INCURRED TO EXTEND THESE SERVICES TO THE SITE SHALL BE INCLUDED IN LUMP SUM BID ITEM "PUMP STATION MODULE."
- The Contractor shall verify all requirements and dimensions of the Generator Pad with the Generator Supplier prior to construction.
- No Electrical Connections will be Allowed within the Wetwell.
- Contact David Harper with the City of Wichita Sewer Treatment Plant at 303-8778 PRIOR to Lift Station Start-up.
- The Contractor Shall Be Responsible for All Permit and Review Fees.
- Contractor shall install 4 Fall Prevention Anchors at locations as shown outside of Hatch on above drawing. Anchors shall be 3M/Sala Model 2100169 Pour-in-Place Detent Anchor w/ Socket or approved equal.

**PLUG VALVE SCHEDULE**

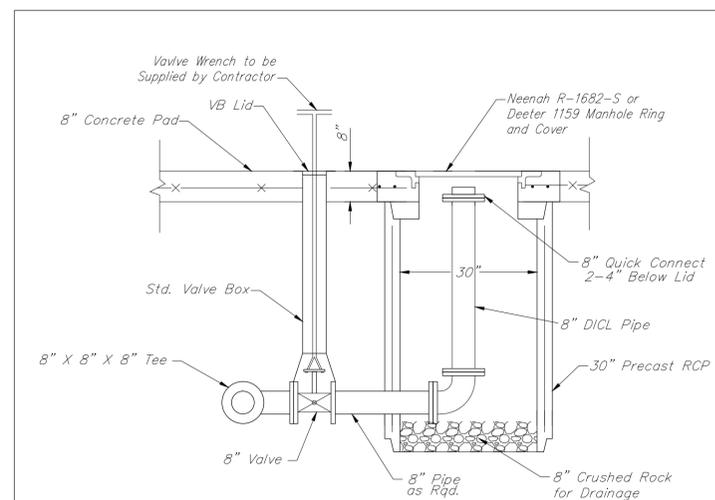
MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR
PV-1	VALVE VAULT	NEW	6"	FLANGE	GEARED OPERATOR W/ EXTENSION & 2" NUT
PV-2	VALVE VAULT	NEW	6"	FLANGE	GEARED OPERATOR W/ EXTENSION & 2" NUT

**CHECK VALVE SCHEDULE**

MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR
CV-1	VALVE VAULT	NEW	6"	FLANGE	LEVER & SPRING
CV-2	VALVE VAULT	NEW	6"	FLANGE	LEVER & SPRING

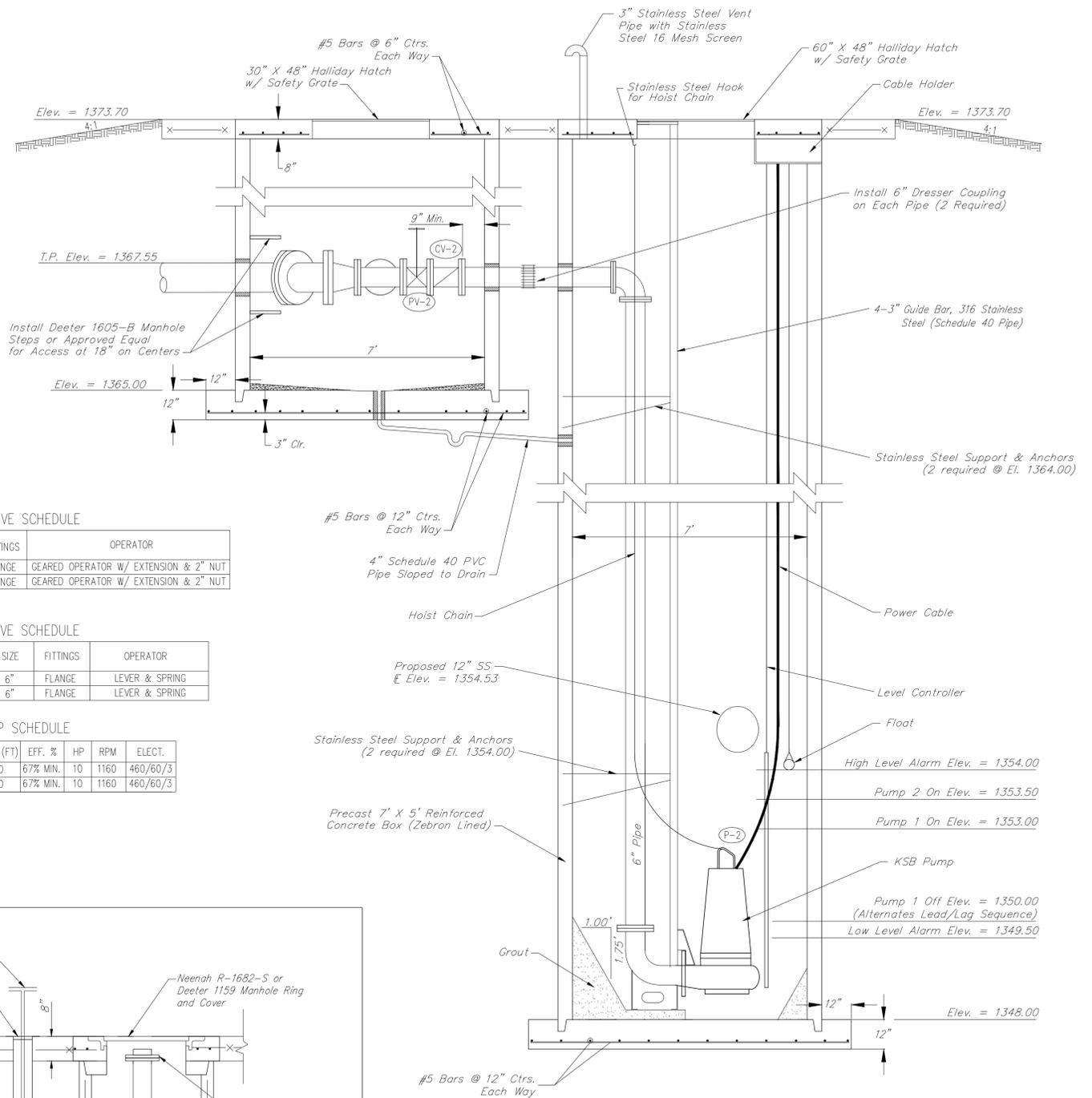
**PUMP SCHEDULE**

MARK	TYPE	GPM	HEAD (FT)	EFF. %	HP	RPM	ELECT.
P-1	SUBMERSIBLE	550	33.0	67% MIN.	10	1160	460/60/3
P-2	SUBMERSIBLE	550	33.0	67% MIN.	10	1160	460/60/3



**EMERGENCY PUMPING CONNECTION**

Contractor to contact David Harper with the Wichita Sewer Treatment Plant at 303-8778 to coordinate type of Quick Connect to be used.



**SECTION A-A**  
No Scale

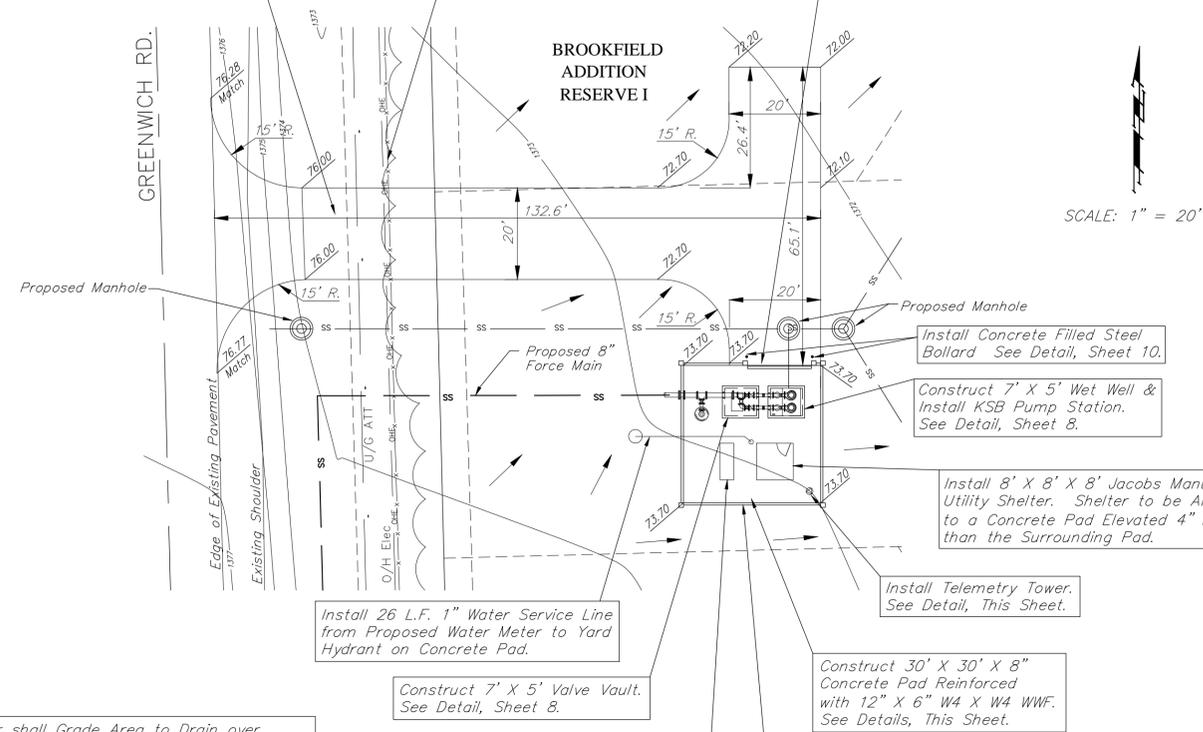


<b>Baughman</b>		Brookfield Addition <b>PUMP STATION DETAILS</b> Sanitary Sewer Improvements	
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-2271 F 316-262-0149 ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE			
PROJECT NUMBER 468-85189	DESIGN AEG	DRAWN JAK	APPROVED DATE 2/17
REVISIONS:	SCALE Noted	SHEET <b>8 OF 24</b>	

Strip Top Soil and Construct 20' Access Drive (8" Reinforced Concrete over 6" Rock Base). See Detail, This Sheet. Cost to be INCIDENTAL to Cost of the Pump Station.

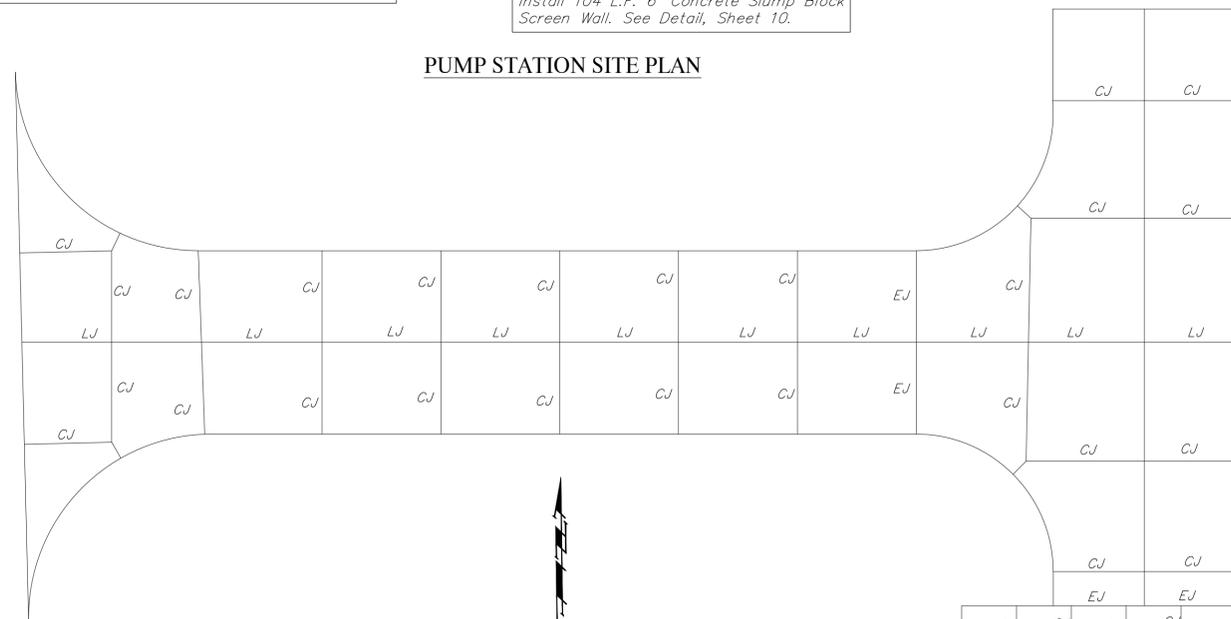
Remove Existing Barbed Wire Fence as Necessary for Construction.

Install 14' Rolling Security Gate According to Manufacturer's Recommendations. Contractor shall Submit Gate Design to Engineer for Approval.

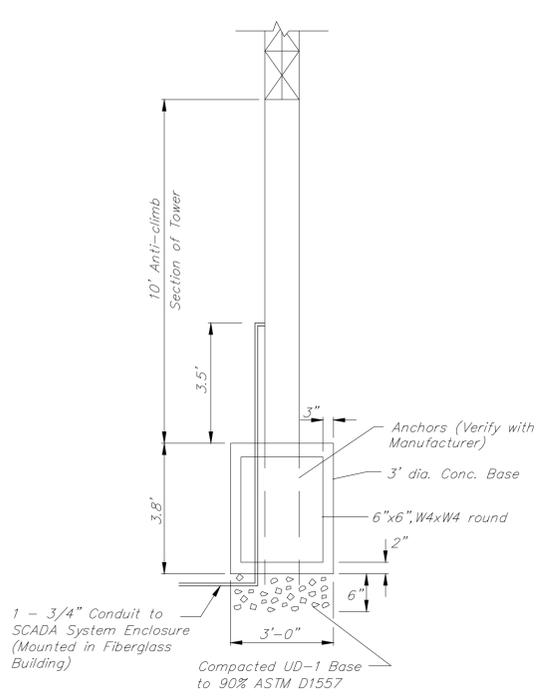


Contractor shall Grade Area to Drain over Access Drive and Around Pump Station Pad. Grade From Edge of Access Road and Concrete Pad to Match Existing at 4:1 Slope. Cost of Grading Incidental to Pump Station Cost.

**PUMP STATION SITE PLAN**

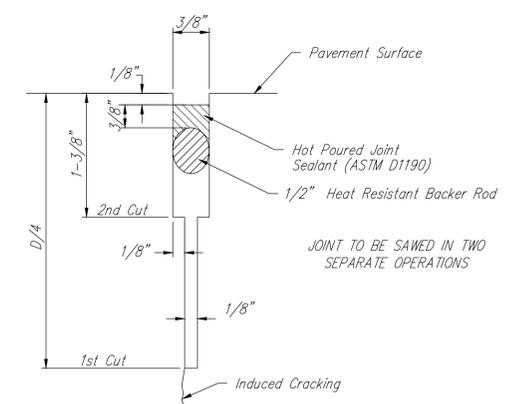


**CONCRETE PAD JOINT PLAN**

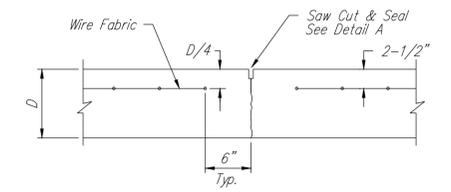


**SCADA SYSTEM DETAIL**

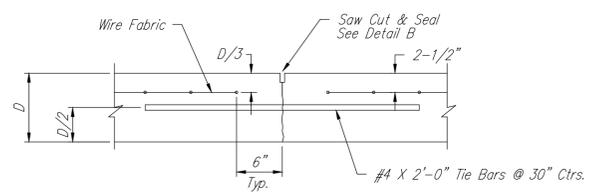
- NOTES:
- MAXIMUM TOWER HEIGHT IS 30 FEET.
  - 6" COPPER GROUND ROD SHALL BE PROVIDED FOR THE TOWER.
  - ANCHOR BOLT SIZES AND LENGTHS SHALL BE PER THE TOWER MANUFACTURER'S RECOMMENDATIONS.



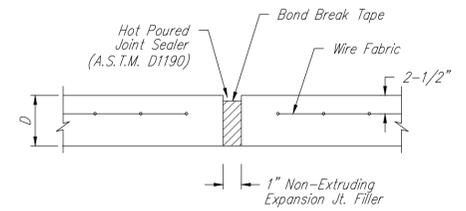
**DETAIL A**



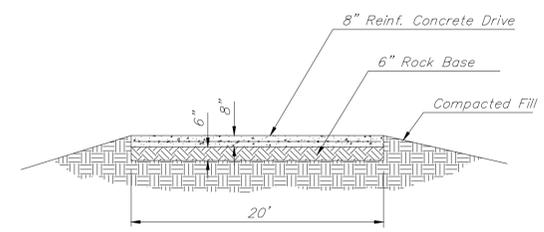
**CONTRACTION JOINT DETAIL**  
REINFORCED PAVEMENT (C.J.)



**LONGITUDINAL JOINT DETAIL**  
(L.J.)



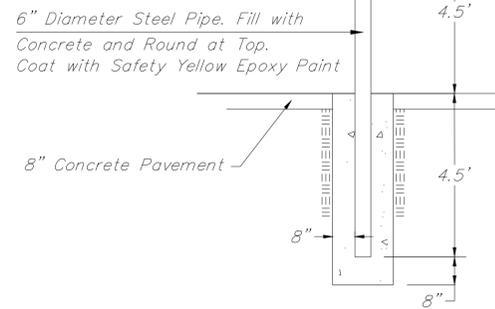
**EXPANSION JOINT DETAIL**  
(E.J.)



**ACCESS DRIVE DETAIL**

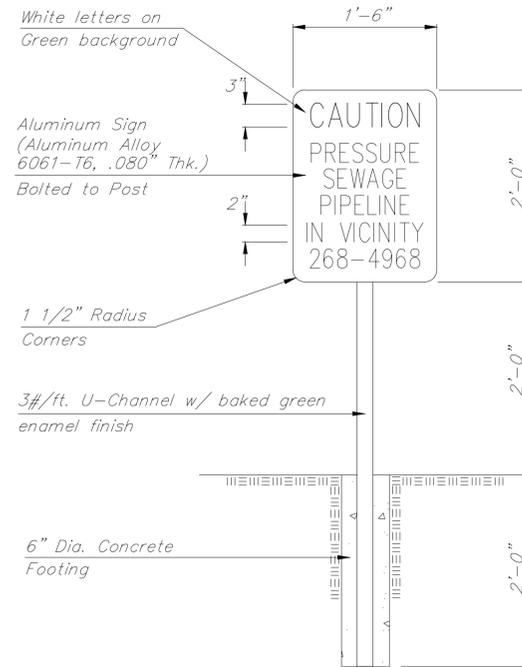


<b>Baughman</b>		Brookfield Addition <b>MISC DETAILS</b> Sanitary Sewer Improvements	
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149 ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE			
PROJECT NUMBER 468-85189	DESIGN DMV	DRAWN JAK	DATE 2/17
REVISIONS:	SCALE Noted		
	SHEET <b>9 OF 24</b>		



**BOLLARD DETAIL**

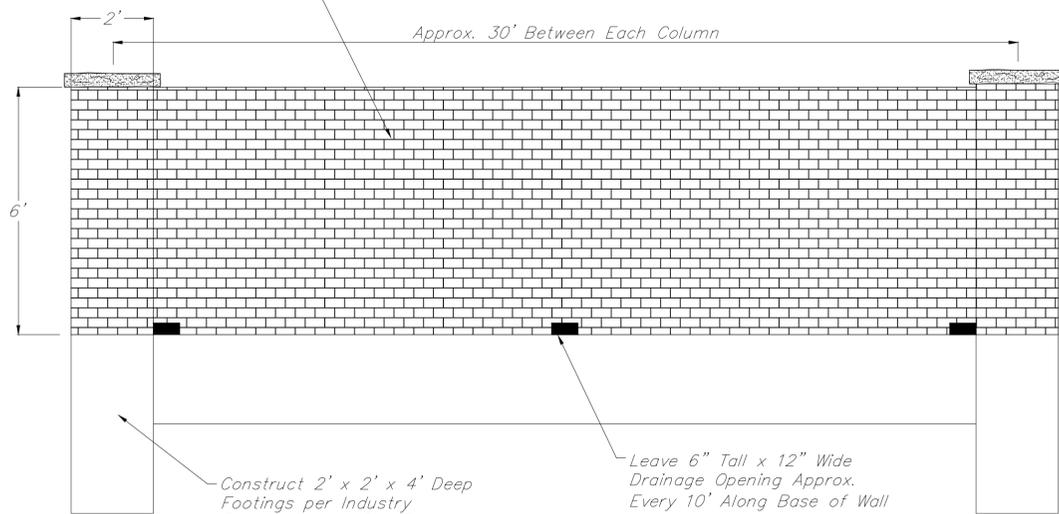
Note: Cost of Bollards shall be included in L.S. Bid Item "Lift Station Module."



**FORCE MAIN WARNING SIGN DETAIL**

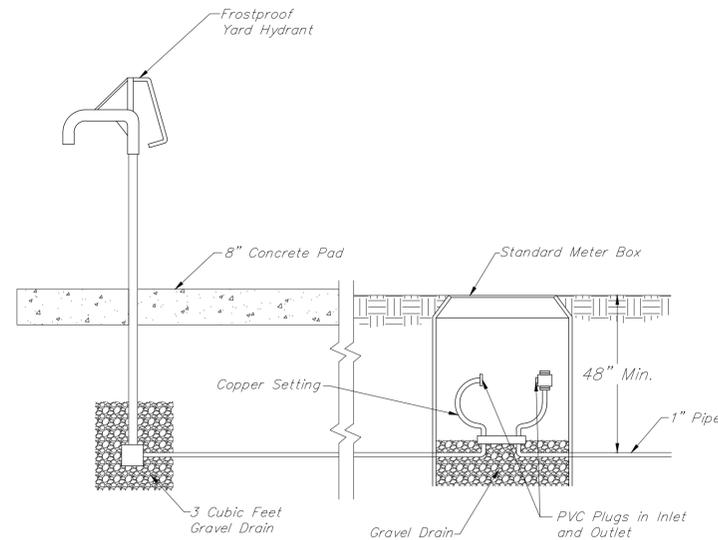
Note: Install Metal Warning Signs near Sta. 0+50, Sta. 5+00, Sta. 9+50 and Sta. 13+63. Exact Locations of Warning Signs shall be Approved by the Engineer. Cost of Signs shall be included in L.S. Bid Item "Lift Station Module."

Construct 6' Tall Concrete Slump Block Wall per Industry Standards and City Standards. Wall shall be Left Unpainted. Contractor shall Obtain Approval from Developer for Texture and Finish Style of Wall.



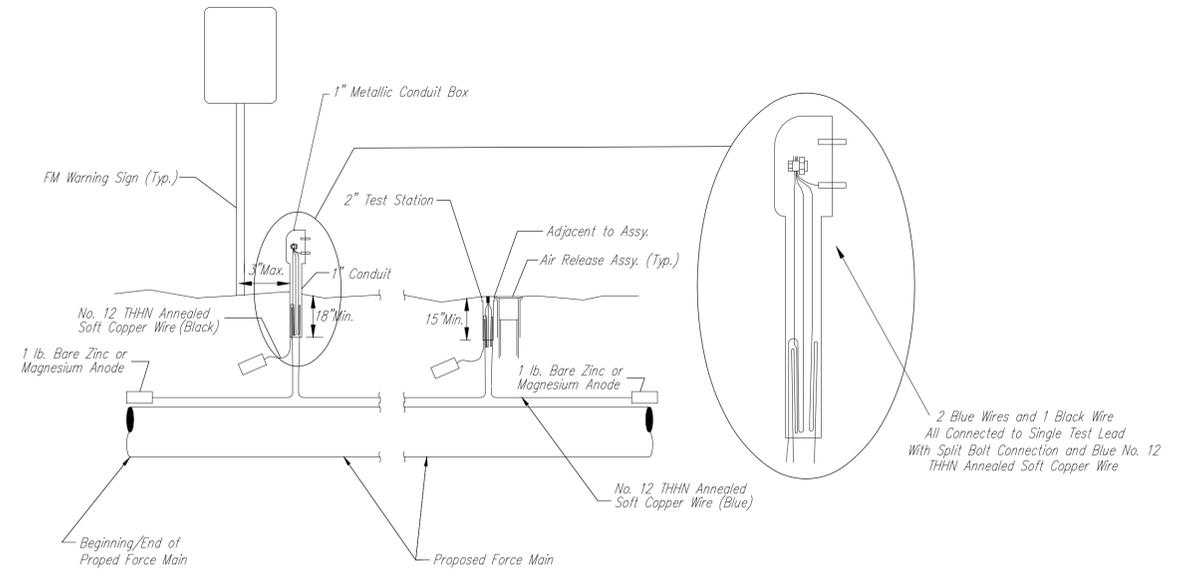
**SCREEN WALL DETAIL**

Note: Cost of 6' Concrete Slump Block Screening Wall shall be included in L.S. Bid Item "Lift Station Module."



**YARD HYDRANT DETAIL**

Note: All Costs Associated with the Yard Hydrant shall be included in L.S. Bid Item "Lift Station Module."



**TRACER WIRE**

Conductive type pipe locator/tracer wire shall be installed to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. Split-bolt connectors shall be used at splice locations. Electrical tape shall cover all splices so no bare wire is exposed. Test stations shall be installed adjacent to all fire hydrants along the waterline and at blowoffs or valves near the ends of the waterlines. Any exceptions to the location of test stations shall be approved by the engineer. At each test station, the tracer wire shall be connected to a 1 lb. Zinc or magnesium anode. Anodes shall also be attached to the tracer wire at both the beginning and the end of the proposed waterline. A typical layout of the tracer wire and test station is provided in the above figure.

**WIRE**

The tracer wire shall be Blue No. 12 THHN annealed soft copper wire with thermal plastic insulation. The insulation shall be heat, oil, and gasoline resistant as manufactured by Temple Electric or approved equal. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. The insulation sheathing shall be removed such that 1" bare copper wire is exposed at all points of connection. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

**TEST STATIONS**

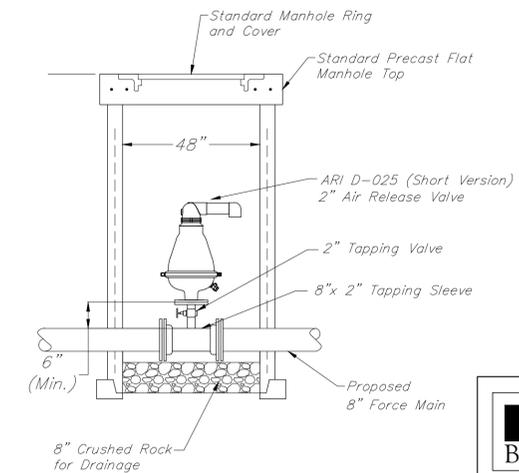
The test station for fire hydrant applications shall be a 1 inch galvanized conduit style test station as manufactured by AGRA Industries with a removable solid cover having two leads extending from the face or approved equal. The test station for valve applications shall be 2 inch flush style test station T2PS3B as manufactured by HANDLEY Industries or approved equal. The conduit style shall be attached to a 1 inch rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "Force Main" stamped or molded into the lid. All test stations shall be manufactured using molded blue tops or sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be installed to allow 10 inches of wire within the test station. In concrete environments such as sidewalks or in the downtown area the contractor shall use the flush style test station. The location of all test stations shall be approved by the engineer, recorded, and shown in the as-built drawings.

**ANODES**

The anodes shall be 1 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to Black No. 12 THHN annealed soft copper wire which shall be extended to the test station.

**TRACER WIRE DETAIL**

COST IS SUBSIDIARY TO PIPE INSTALLATION



**AIR RELEASE VALVE and VAULT DETAIL**

Note: Install Air Release Valve and Vault at Locations as Shown on the Plans. All Costs Associated with Air Release Valves shall be included in 8" Force Main Bid Item.



<b>Baughman</b>		Brookfield Addition <b>MISC DETAILS</b> Sanitary Sewer Improvements	
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149 ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE			
PROJECT NUMBER 468-85189	DESIGN DMV	DRAWN JAK	APPROVED DATE 2/17
REVISIONS:	SCALE Noted		
	SHEET <b>10 OF 24</b>		

MINI-POWER ZONE L										
INTEGRAL PANEL/ TRANSFORMER										
CIRC NO.	LOAD V.A.	LOAD DESCRIPTION	P O L E	AMP SIZE	P H A S E	AMP SIZE	P O L E	LOAD DESCRIPTION	LOAD V.A.	CIRC NO.
1	140	PUMP LIGHTG	1	20	A	20	1	INT. RECEPT.	200	2
3	300	EXT. LIGHTING	1	20	B	20	1	BATTERY CHRGR	1000	4
5	200	EXT. RECEPT.	1	20	C	15	2	JACKET HTR	1500	6
7	60	EF-1	1	20	A	--	--			8
9		SPARE	1	25	B	15	2	COOLANT HTR	1500	10
11		SPARE	1	20	C	--	--			12
13		SPACE			A	20	1	SPACE		14
15		SPACE			B			SPACE		16
17		SPACE			C			SPACE		18

- ① 15 KVA MINI-POWER ZONE COMBINATION PANEL/ TRANSFORMER, 480V. PRIMARY WITH 120/208V., 3-PHASE, 4-WIRE SECONDARY. 18 POLE PANEL.
- ② VERIFY CIRCUITING REQUIREMENTS WITH GENERATOR PROVIDED PRIOR TO ORDERING PANEL AND BREAKERS.

PANEL H										
W/ GRD. BUS										
CIRC NO.	LOAD V.A.	LOAD DESCRIPTION	P O L E	AMP SIZE	P H A S E	AMP SIZE	P O L E	LOAD DESCRIPTION	LOAD V.A.	CIRC NO.
1	15,000	MINI ZONE L	3	25	A	60	3	CP-1	29900	2
3					B					4
5					C					6
7		SPARE	1	20	A	20	3	UH-1	3300	8
9		SPARE	1	20	B					10
11		SPARE	1	20	C					12
13		SPACE			A	20	1	SPACE		14
15		SPACE			B			SPACE		16
17		SPACE			C			SPACE		18

LIGHT FIXTURE SCHEDULE								
FIXT LTR.	MANUFACTURER	CATALOG NUMBER	LAMPS		FIXT. VOLT.	FINISH	MOUNTING	REMARKS
			NO.	TYPE				
A	WILLIAMS	96-4-L82-HIAFR-DRV-UNV	--	LED	UNV	WHITE	SURFACE	ENCLOSED AND GASKETED.
B	WILLIAMS	WPI-L44/850-PG-WG-120	--	LED	120	STANDARD	WALL	(1)(2)

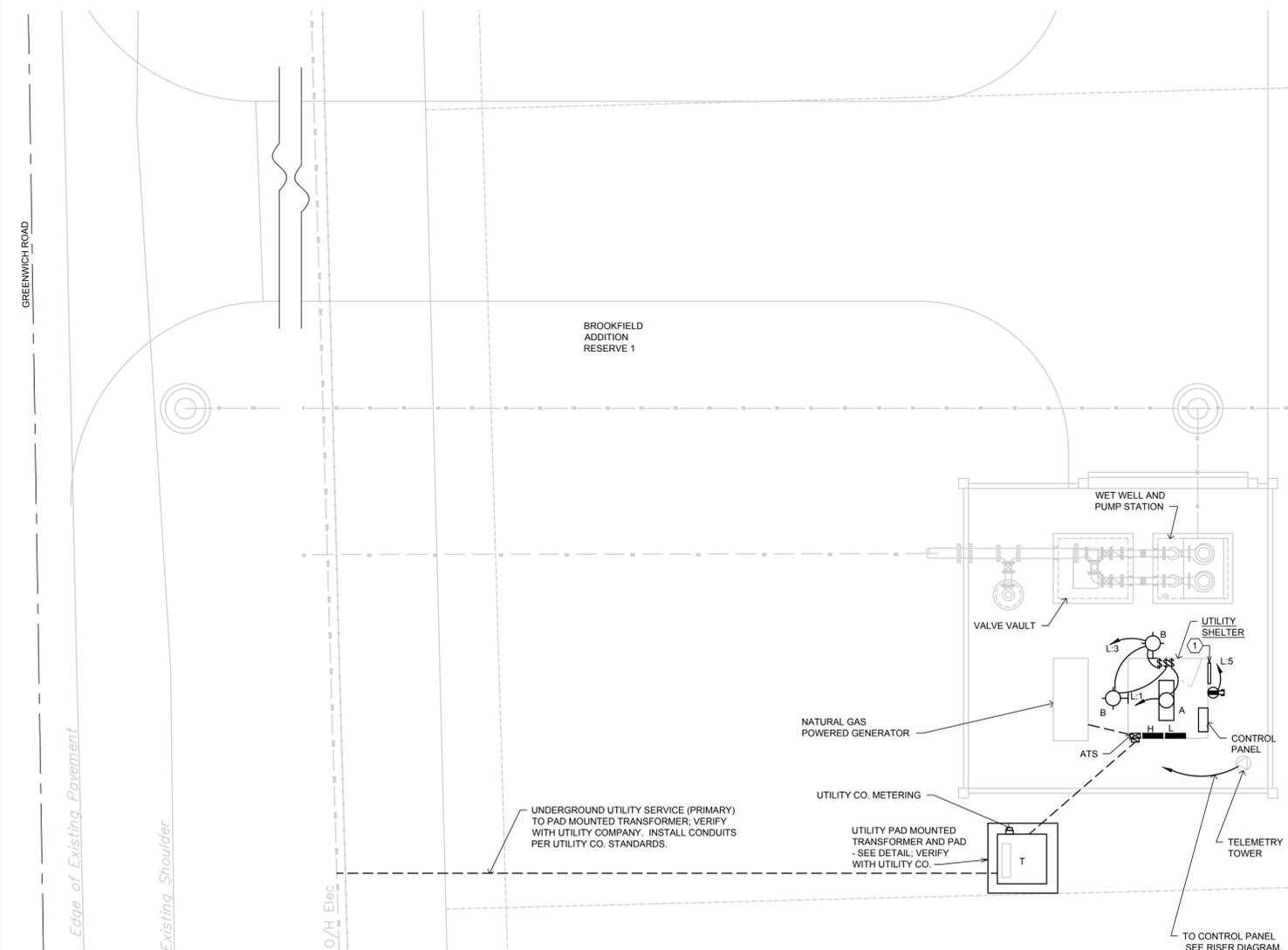
LIGHT FIXTURE SCHEDULE NOTES
① PROVIDE FIXTURE WITH INTEGRAL PHOTOCELL.
② MANUFACTURERS LISTED IN THIS SCHEDULE OR APPROVED BY WRITTEN ADDENDUM WILL BE THE ONLY APPROVED MANUFACTURERS TO BID THE LIGHTING FIXTURES FOR THIS PROJECT. CONTRACTORS AND SUPPLIERS USING PRICING FROM MANUFACTURERS NOT LISTED ON SCHEDULE OR BY ADDENDUM DO SO AT THEIR OWN RISK.

SYMBOL LIST		
SYMBOL	DESCRIPTION	MOUNTING
	FLUORESCENT FIXTURE & FIXTURE LETTER	CEILING
	INCAND. OR H.I.D. FIXTURE & FIXT. LETTER	WALLBRACKET
	GFCI DUPLEX GROUNDED RECEPTACLE	1'-3" AFF
	DUPLEX GROUNDED RECEPTACLE	1'-3" AFF
	EXTERIOR GFCI RECEPT. WEATHERPROOF	1'-3" AFF
	SWITCHES (1-POLE, 3-WAY, 4-WAY, PILOT, KEY)	4'-0" TO TOP
	JUNCTION BOX	
	FUSTAT	
	SPECIAL DEVICE AS NOTED ON PLAN	
	BRANCH CIRCUIT PANEL & PANEL DESIG.	6'-6" TO TOP
	H.D. SAFETY SWITCH (AMPS, POLE, VOLTAGE)	6'-6" TO TOP
	STARTER (SIZE, POLE, VOLTAGE)	6'-6" TO TOP
	THERMOSTAT (BY M.C.)	4'-0" TO TOP
	MOTOR	
	CONDUIT RUN 2#12 & 1#12 GRD. -1/2" C.	CEIL./WALL
	CONDUIT RUN 2#12 & 1#12 GRD. -1/2" C.	EARTH/FLOOR
	PARTIAL HOMERUN (MULTIPLE LOAD LOCATIONS)	
	SEE NOTE #7	
	FEEDER IDENTIFICATION, SEE SCHEDULE	
	WEATHERPROOF	
	INDICATES SWITCHING SCHEME	

GENERAL NOTES
1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) & THE AMERICANS WITH DISABILITIES ACT (ADA).
2. REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
3. REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
4. E.C. SHALL REFER TO DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
5. COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
6. ALL MOUNTING HEIGHTS TO CENTERLINE OF ITEM UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
7. CONDUIT RUN W/ CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C. 250-122 (2014); CONDUIT SIZE AS REQUIRED.
8. WHEN INCREASED CONDUCTOR SIZES ARE SHOWN ON THE PLANS, THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.
9. CONTRACTOR SHALL BUILD TO ALL CURRENT NATIONAL, STATE, AND LOCAL CODES.

EQUIPMENT CONNECTION SCHEDULE																
ICE																
UNIT DESIG.	LOAD	PANEL DEVICE RATING (AMPS/POLE)						DISC. DEVICE AT UNIT (AMPS/POLE)				STARTER (SIZE/POLE)		CIRC. NO.	FEEDER IDENT.	
		H.P.	FLA	MCA	20/1	20/3	30/3	100/3	100/3	40/2	30/2	FUSE SIZE	REMARKS			IN CP-1
CP-	DUPLEX CONTROL PANEL															
1	(2) 10 28 36														H-2	3#4& 1#8GRD-1 1/4" C
P-	PUMP															
1	10 14 18														CP-1	3#10& 1#10GRD-1" C
2	10 14 18														CP-1	3#10& 1#10GRD-1" C
EF-	EXHAUST FAN															
1	60W														L-7	2#12& 1#12GRD-1/2" C
UH-	UNIT HEATER															
1	3.3KW 4														H-8	3#12& 1#12GRD-3/4" C

EQUIPMENT CONNECTION SCHEDULE NOTES
① ALL CONNECTIONS AND ELECTRICAL EQUIPMENT LISTED IN SCHEDULE SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FIELD VERIFY CONNECTION REQUIREMENTS AND EQUIPMENT PROVIDED BY OTHERS PRIOR TO ROUGH-IN.
② REFER TO DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTIONS OF INTERLOCKING, THERMOSTAT LOCATIONS, EXHAUST FAN CONTROL SWITCHES, AND OTHER CONTROLS OF MECHANICAL EQUIPMENT.
③ NOT USED.
④ PROVIDE A 30A, 1 POLE, 125V. HORSEPOWER RATED TOGGLE SWITCH WITH A 125V, 3/4 HP RATED FUSTAT (EQUAL TO BUSSMAN #SOY), SIZE FUSE PER MANUFACTURER'S RECOMMENDATION.
⑤ STARTER AND POWER FACTOR CORRECTION CAPACITORS SHALL BE PROVIDED AS PART OF CP-1. CONTRACTOR TO PROVIDE WIRING FROM CP-1 TO DISTRIBUTION BLOCKS IN JUNCTION BOX LOCATED OUTSIDE BUILDING AND CONNECT PUMP SUPPLIED CABLING AS REQUIRED.
⑥ PROVIDE CONNECTION TO EXHAUST AN PROVIDED WITH UTILITY SHED AS REQUIRED. INSTALL A COOK MODEL GC-142 CABINET FAN OR EQUIVALENT. 75 CFM AT 0.25" E.S.P., 59 WATTS, 120V/1/60. INSTALL TIGHT TO CEILING OF UTILITY SHELTER. PROVIDE ALUMINUM GRILLE, WALL CAP PAINTED TO MATCH UTILITY SHELTER, CONTROL TRANSFORMER, AND 24V. THERMOSTAT TO TURN FAN ON ABOVE 80° (ADJUSTABLE). INSTALL A 12"x 12" WALL LOUVER WITH MOTORIZED DAMPER INTERLOCKED TO OPEN WITH FAN OPERATION.
⑦ PROVIDE CONNECTION TO UNIT HEATER IN UTILITY SHED AS REQUIRED. VERIFY LOCATION PRIOR TO ROUGH-IN. INSTALL A MARKEL MODEL P3P5103CAIN ELECTRIC UNIT HEATER OR EQUIVALENT. HEATER SHALL BE 3.3 KW, 112 MBH, 4.0A, 480/3/60. PROVIDE WITH WALL MOUNTING BRACKET, CONTROL TRANSFORMER, AND 24 V LOW VOLTAGE THERMOSTAT TO START THE HEATER BELOW 50° (ADJUSTABLE).



**A** ELECTRICAL LAYOUT DIAGRAM  
SCALE: 1/8"= 1'-0"

KEYNOTES:  
① NEMA 4XSS JUNCTION BOX WITH DISTRIBUTION BLOCKS DOWN ON RISER. MOUNT JUNCTION BOX ON STAINLESS STEEL UNI-STRUT ADJACENT TO BUILDING.



<b>Baughman</b>		<b>LIFT STATION DETAILS</b>	
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316.262.7271 F 316.262.0149 ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE			
PROJECT NUMBER	DESIGN GWS	DRAWN	
REVISIONS:	APPROVED PJV	DATE 04-25-17	
	SCALE AS NOTED	SHEET	<b>12 OF 23</b>