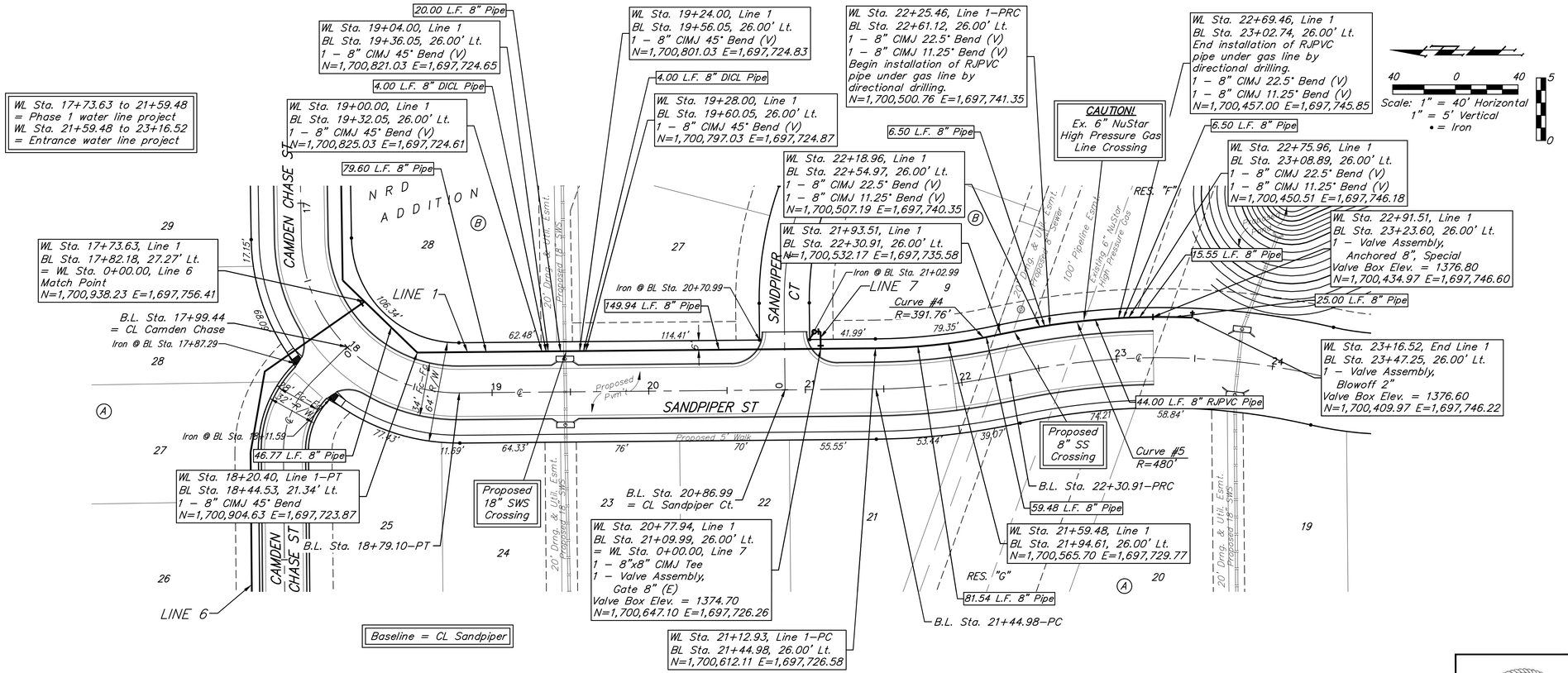
BENCHMARKS:
BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.
Elev. = 1361.76 NAVD88

BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.
Elev. = 1363.84 NAVD88

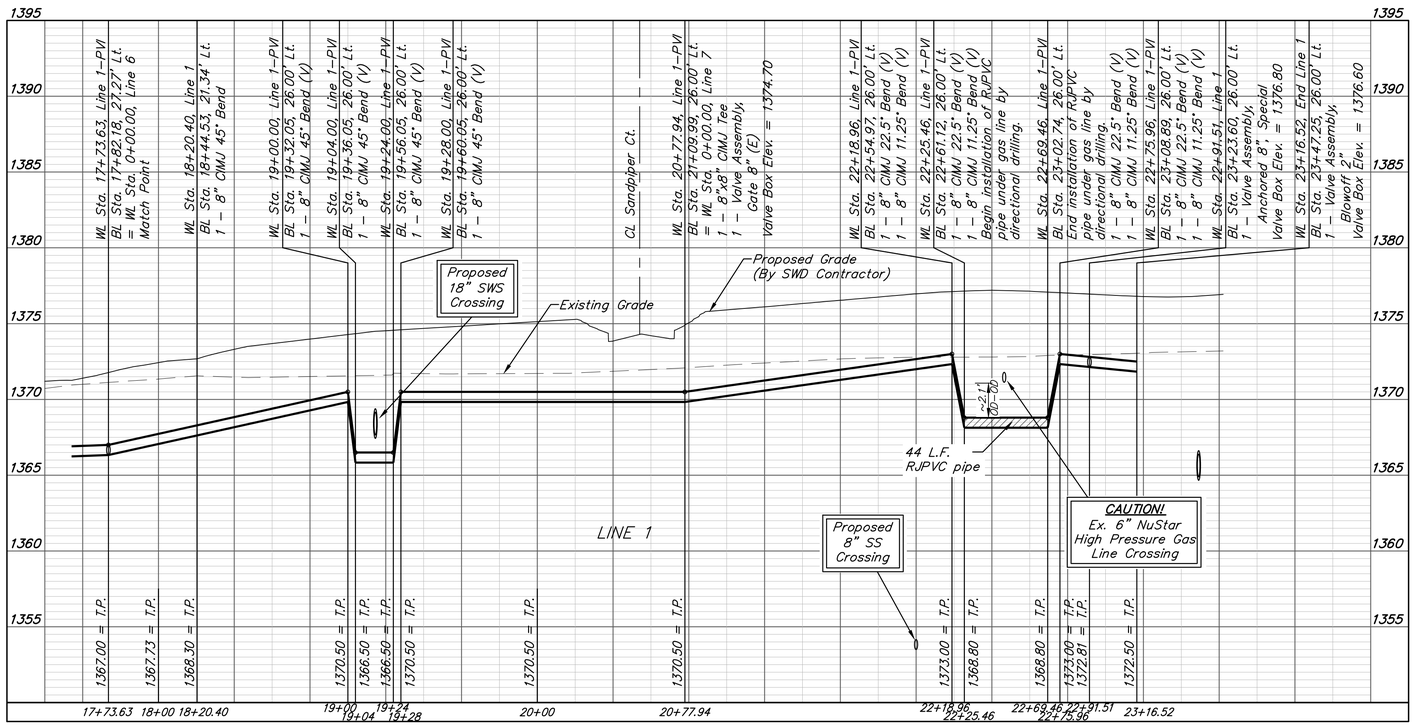
BM #3: Chiseled square on NW Corder of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.
Elev. = 1369.05 NAVD88

* When construction will occur within 50' of either side of NuStar gas pipeline, Contractor shall contact Kansas One-Call and NuStar a minimum of 72 hours prior to construction. Teresa Landry (316)322-0325. A representative of NuStar must be present for any construction activities within 50' of pipeline. A minimum of 24" O.D.-O.D. vertical separation is required between gas pipeline and proposed utilities.

Contractor to maintain a minimum of 2' of vertical separation (O.D.-O.D.) between sanitary sewer and water line.



Baseline = CL Sandpiper



Curve #4				
Curve Data Based on Waterline				
Rad. = 391.76' Delta = 11°47'07" Tangent = 40.43'				
Arc = 80.58' L.C. = 80.44' Def./Ft. = 4.38767 Min.				
Chord Lengths				
Station	Arc	8' Left	Defl.	Total Defl.
21+12.93	-	-	0°00'00"	0°00'00"
21+25.00	12.07'	11.82'	0°52'58"	0°52'58"
21+50.00	25.00'	24.49'	1°49'41"	2°42'39"
21+59.48	9.48'	9.29'	0°41'36"	3°24'15"
21+75.00	15.52'	15.20'	1°08'06"	4°32'21"
21+93.51	18.51'	18.13'	1°21'12"	5°53'33"

Curve #5				
Curve Data Based on Waterline				
Rad. = 480' Delta = 14°40'56" Tangent = 61.84'				
Arc = 123.01' L.C. = 122.67' Def./Ft. = 3.58074 Min.				
Chord Lengths				
Station	Arc	8' Left	Defl.	Total Defl.
21+93.51	-	-	0°00'00"	0°00'00"
22+00.00	6.49'	6.60'	0°23'14"	0°23'14"
22+18.96	18.96'	19.27'	1°07'54"	1°31'08"
22+25.46	6.50'	6.61'	0°23'16"	1°54'24"
22+50.00	24.54'	24.94'	1°27'53"	3°22'17"
22+69.46	19.46'	19.78'	1°09'40"	4°31'57"
22+75.96	6.50'	6.61'	0°23'17"	4°55'14"
22+91.51	15.55'	15.81'	0°55'41"	5°50'55"
23+00.00	8.49'	8.63'	0°30'24"	6°21'19"
23+16.52	16.52'	16.79'	0°59'09"	7°20'28"

BRENT WOOTEN LICENSED 8470 08/03/2021 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

NRD ADDITION
Phase I & Entrance

LINE 1

WATER DISTRIBUTION SYSTEM

PROJECT NUMBER: 21-03-E865 & E870

DESIGN: NBW DRAWN: TMS

DATE: July 29, 2021

SHEET 5 OF 22

File: E:\Projects\NRD Addition_19-04-P448\Engineering\Phase 1\WTR 21-03-E865 E870\WTR.dwg