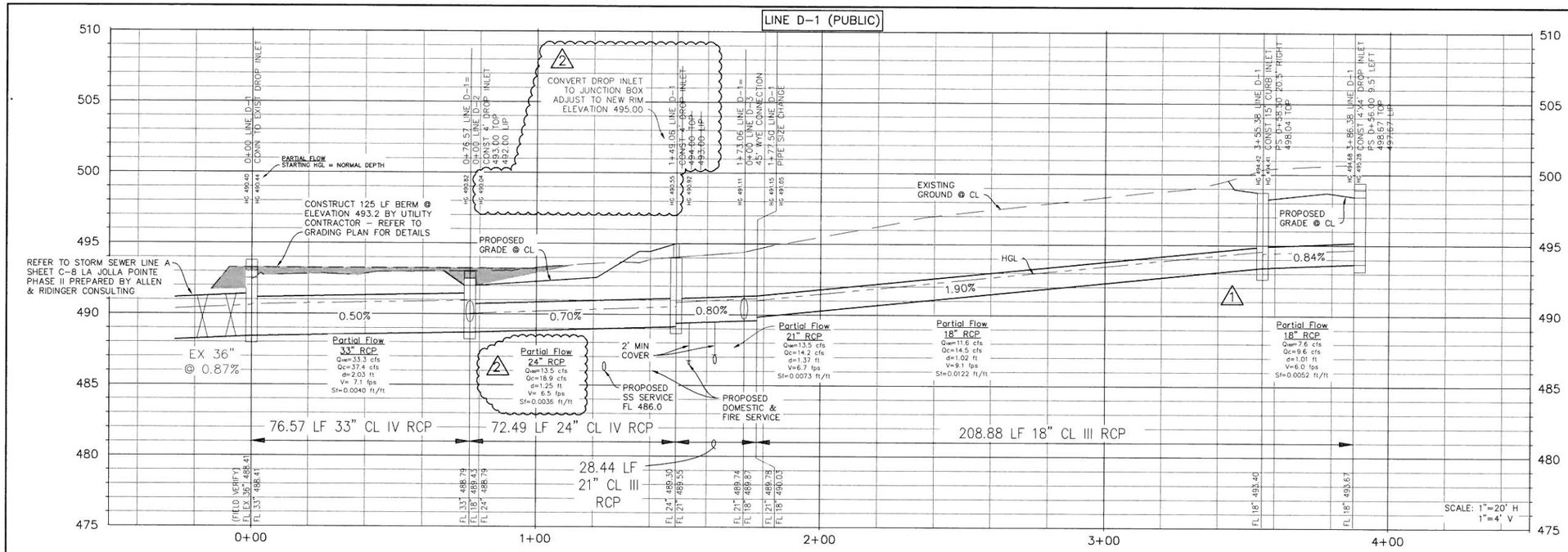

NOTES:
1. ALL CONSTRUCTION SHALL CONFORM TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION NORTH CENTRAL TEXAS, FOURTH EDITION AND CITY OF ROCKWALL STANDARDS OF DESIGN AND CONSTRUCTION.
2. ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.
3. ALL STORM SEWER MAINS SHALL BE CLASS III RCP UNLESS OTHERWISE SPECIFIED ON PLAN AND PROFILE.

BENCHMARKS:

#1 "□" CUT ON EXISTING "Y" INLET ±74' FROM THE NORTHWEST CORNER OF PROPERTY.
ELEV. 493.46

#2 "□" CUT ON BACK OF CURB ±12' IN FRONT OF EXISTING SANITARY SEWER MANHOLE ±66' FROM THE NORTHEAST CORNER OR PROPERTY LINE.
ELEV. 497.98

RECORD DRAWING

TO THE BEST OF OUR KNOWLEDGE, USA PROFESSIONAL SERVICES GROUP, INC. HEREBY STATES THAT THIS RECORD DRAWING IS BASED ON VISUAL SITE OBSERVATIONS, SURVEY INFORMATION, AND INFORMATION PROVIDED BY THE CONTRACTOR

DATE: JUNE 16, 2020

SYSTEM ID	CONDUIT PROPERTIES: COLLECTION POINT STATION U/S	D/S	LENGTH	# OF BARRELS	PIPE SIZE	BOX SPAN	BOX RISE	TYPE	AREA	WETTED PERIMETER P_W	HYDRAULIC RADIUS	MANNING'S n	FLOWLINE ELEVATION U/S	D/S	SLOPE	INCREMENTAL DRAINAGE AREA: INLET ID	AREA	RUNOFF COEFFICIENT C	INCREMENTAL C*A	ACCUMULATED C*A	UPSTREAM T_C	DESIGN STORM FREQUENCY	INTENSITY I	RUNOFF Q	CONDUIT CAPACITY Q_c	PARTIAL FLOW	VELOCITY V	TIME IN CONDUIT	FRICTION SLOPE S_f	FRICTION HEAD LOSS	HGL U/S	HGL D/S	HEADLOSS CALCULATIONS: $V_1^2/2g$	$V_2^2/2g$	JUNCTION TYPE	COEFF K_j	HEADLOSS H_L	HGL	TOP OF CURB ELEVATION	HGL DEPTH BELOW T/C	REMARKS
	U/S	D/S											U/S	D/S																												
			(ft)		(inches)						(ft)				(ft/ft)			(acres)				(min)	(yr)	(in/hr)	(cfs)	(cfs)	(Yes/No)	(ft/s)	(min)	(ft/ft)	(ft)													
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)
LINE D-3	112.94	101.62	11.32	1	18			RCP	1.77	0.38	4.71	0.013	501.60	502.42	0.1639	4	0.22	0.9	0.20	0.20	10	100	9.8	1.9	33.9	Yes	9.7	0.02	0.0003	0.00	501.85	500.67	1.46	1.46	45° BEND	0.37	0.92	501.85	507.80	5.75	
	101.62	14.14	87.48	1	18			RCP	1.77	0.38	4.71	0.013	500.42	491.34	0.1039				0.00	0.20	10	100	9.8	1.9	33.9	Yes	9.7	0.15	0.0003	0.03	500.67	491.59	1.46	1.46	45° BEND	0.37	0.92	500.67	506.50	5.83	
	14.14	0.00	14.14	1	18			RCP	1.77	0.38	4.71	0.013	491.34	489.87	0.1039				0.00	0.20	10	100	9.8	1.9	33.9	Yes	9.7	0.02	0.0003	0.00	491.59	490.12	0.70	1.46	WYE	1.00	0.76	491.59	496.60	5.01	
LINE D-2.1	9.06	0	9.06	1	18			RCP	1.77	0.38	4.71	0.013	503.20	503.05	0.0161	3	0.2	0.9	0.18	0.18	10	100	9.8	1.8	12.9	Yes	5.1	0.03	0.0003	0.00	503.58	503.43	2.35	0.49	JUNCTION 90°	0.25	-0.18	503.58	512.94	9.36	
LINE D-2	218.41	188.41	30.00	1	18			RCP	1.77	0.38	4.71	0.013	505.94	505.34	0.0200	1	1.04	0.9	0.94	0.94	10	100	9.8	9.2	14.9	Yes	8.8	0.06	0.0077	0.23	506.80	506.20	2.39	1.26	JUNCTION 0°	1.00	-1.19	506.80	512.94	6.14	
	188.41	135.81	52.60	1	18			RCP	1.77	0.38	4.71	0.013	503.34	500.92	0.0460	2	0.18	0.9	0.16	1.10	10	100	9.8	10.8	22.5	Yes	12.4	0.07	0.0106	0.56	504.08	501.66	2.35	2.39	JUNCTION 0°	1.00	0.04	506.20	512.13	5.93	
	135.81	50.00	85.81	1	18			RCP	1.77	0.38	4.71	0.013	498.92	495.49	0.0400	LINE D-2.1	0.20	0.9	0.18	1.28	10	100	9.8	12.6	21.0	Yes	12.3	0.12	0.0144	1.24	499.76	496.33	2.35	2.35	JUNCTION 0°	1.00	0.00	501.66	506.00	4.34	
	50.00	0.00	50.00	1	18			RCP	1.77	0.38	4.71	0.013	491.43	489.43	0.0400				0.00	1.28	10	100	9.8	12.6	21.0	Yes	12.3	0.07	0.0144	0.72	492.27	490.27	0.78	2.35	JUNCTION 90°	0.25	2.15	496.33	501.20	4.87	
LINE D-1	386.38	355.38	31.00	1	18			RCP	1.77	0.38	4.71	0.013	493.67	493.41	0.0084	5	0.86	0.9	0.77	0.77	10	100	9.8	7.6	9.6	Yes	6.0	0.09	0.0052	0.16	494.68	494.41	1.29	0.56	JUNCTION 0°	1.00	-0.73	494.68	498.67	3.99	
	355.38	177.50	177.88	1	18			RCP	1.77	0.38	4.71	0.013	493.41	490.03	0.0190	6	0.45	0.9	0.41	1.18	10	100	9.8	11.6	14.5	Yes	9.1	0.33	0.0122	2.17	494.42	491.05	0.70	1.29	PIPE SIZE Δ	1.00	0.59	494.42	498.04	3.62	
	177.50	172.06	4.44	1	21			RCP	2.41	0.44	5.50	0.013	489.78	489.74	0.0081				0.00	1.18	10	100	9.8	11.6	14.2	Yes	6.7	0.01	0.0073	0.03	491.15	491.11	0.70	0.70	WYE	1.00	0.00	491.15	494.40	3.25	
	172.06	149.06	24.00	1	21			RCP	2.41	0.44	5.50	0.013	489.74	489.56	0.0080	LINE D-3	0.22	2 0.9	0.20	1.38	10	100	9.8	13.5	14.2	Yes	6.7	0.06	0.0073	0.18	491.11	2 490.92	0.74	0.70	JUNCTION 0°	1.00	-0.04	491.11	494.40	3.29	
	149.06	76.57	72.49	1	24			RCP	3.14	0.50	6.28	0.013	489.30	488.79	0.0070				0.00	1.38	10	100	9.8	13.5	18.9	Yes	6.9	0.18	0.0067	0.49	490.92	2 490.64	0.78	0.74	JUNCTION 0°	1.00	-0.04	490.90	494.00	3.10	
	76.57	0.00	76.57	1	33			RCP	5.94	0.69	8.64	0.013	488.79	488.41	0.0050	7,8 & LINE D-2	2.24	2 0.9	2.02	3.40	10	100	9.8	33.3	37.4	Yes	7.1	0.18	0.0040	0.31	490.82	490.44	0.76	0.78	JUNCTION 0°	1.00	0.02	490.82	493.00	2.18	

2 04/29/19 CONVERT DROP INLET TO JUNCTION BOX 1+46.06 LINE D-1
1 04/14/19 DELETED WATER CROSSING

11/15

STORM SEWER PROFILES

SHIPMAN OFFICE BUILDING
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

USA PROFESSIONAL SERVICES GROUP, INC.
1525 WCREDY DRIVE, DALLAS, TX 75235
214-634-3300 PHONE 214-634-3338 FAX
REGISTERED ENGINEERING FIRM F-1845
REGISTERED SURVEYING FIRM 101074-00

USA JOB NUMBER
2018006.00

STATE OF TEXAS
Craig S. Smiley
62758
REGISTERED PROFESSIONAL ENGINEER
April 14, 2019