

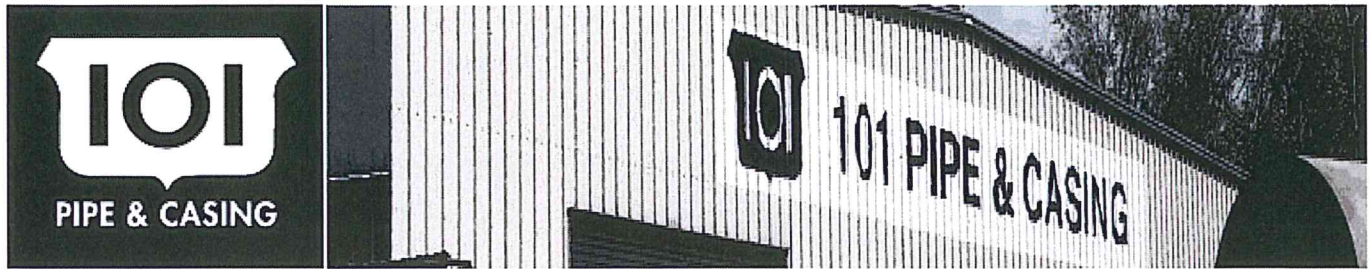


CONTRACTOR SUBMITTAL FORM

Project Name: Navajo Gallup Water Supply Project Reach 26.3	<input checked="" type="checkbox"/> M (Materials) <input type="checkbox"/> T (Testing) <input type="checkbox"/> A (Administrative)	Submittal No.
SMA Project No: 6921307		M031
Date: 08-06-2019		
Contractor: Navajo Engineering and Construction Authority	No. of Copies: 1	

Supplier: Core & Main	Manufacturer: 101 Pipe & Casing
Specification No.: 33 11 13-2.1C	Drawing No.: DT-7 through DT-10
Bid Item No(s): 22, 23, 34	
Submittal Checklist No(s): M353	
Product Description: 2" and 4" Galvanized Iron Pipe	
Are there any deviations from the Contract Documents? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Explain:	
Contractor's certification that product meets requirements of Contract Documents: <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Certified with variations as noted on shop drawings and/or attached sheets.	
Signed:  Quentin Benally, NECA	Date: 08-06-2019

Engineer's Comments: <input type="checkbox"/> No Exception Taken <input checked="" type="checkbox"/> Approved as Corrected <input type="checkbox"/> Exceptions as Noted <input type="checkbox"/> Submittal Rejected <input type="checkbox"/> Revise and Resubmit to Engineer <input type="checkbox"/> Contractor to Submit Specified Information - Contractor to ensure pipes are threaded per drawings - Contractor to ensure coatings are applied per drawings & specs	Review is limited to check for compliance with design concept. No changes from provisions of Contract Documents are intended and Contractor remains responsible for compliance with revisions therein. The Contractor is solely responsible for quantities; correctness of dimensions; verification of physical interrelation of elements of the work as required by the drawings and specifications and by field determination; fabrication procedures, construction methods, techniques and sequences. This review does not relieve the Contractor from these responsibilities. Non-conformities and errors detected have been noted but such markings, or lack thereof, shall not relieve the Contractor from compliance with all requirements of the contract drawings and specifications.
Signed: 	Date: 8/19/19



PIPE CHART

PIPE SIZE	O.D. in inches	PIPE SCHEDULE														DBL. E.H.	
		5s	5	10s	10	20	30	40	STD	60	80	E.H.	100	120	140		160
1/8	.405		.035	.049	.049			.068	.068		.095	.095					
			.1383	.1863	.1863			.2447	.2447		.3145	.3145					
1/4	.540		.049	.065	.065			.088	.088		.119	.119					
			.2570	.3297	.3297			.4248	.4248		.5351	.5351					
3/8	.675		.049	.065	.065			.091	.091		.126	.126					
			.3276	.4235	.4235			.5676	.5676		.7388	.7388					
1/2	.840	.065	.065	.083	.083			.109	.109		.147	.147				.187	.294
		.5383	.5380	.6710	.6710			.8510	.8510		1.088	1.088				1.304	1.714
3/4	1.050	.065	.065	.083	.083			.113	.113		.154	.154				.218	.308
		.6838	.6838	.8572	.8572			1.131	1.131		1.474	1.474				1.937	2.441
1	1.315	.065	.065	.109	.109			.133	.133		.179	.179				.250	.358
		.8678	.8678	1.404	1.404			1.679	1.679		2.172	2.172				2.844	3.659
1¼	1.660	.065	.065	.109	.109			.140	.140		.191	.191				.250	.382
		1.107	1.107	1.806	1.806			2.273	2.273		2.997	2.997				3.765	5.214
1½	1.900	.065	.065	.109	.109			.145	.145		.200	.200				.281	.400
		1.274	1.274	2.085	2.085			2.718	2.718		3.631	3.631				4.859	6.408
2	2.375	.065	.065	.109	.109			.154	.154		.218	.218				.344	.436
		1.604	1.604	2.638	2.638			3.653	3.653		5.022	5.022				7.444	9.029
2½	2.875	.083	.083	.120	.120			.203	.203		.276	.276				.375	.552
		2.475	2.475	3.531	3.531			5.793	5.793		7.661	7.661				10.01	13.70
3	3.5	.083	.083	.120	.120			.216	.216		.300	.300				14.32	18.58
		3.029	3.029	4.332	4.332			7.576	7.576		10.25	10.25				14.32	18.58
3½	4.0	.083	.083	.120	.120			.226	.226		.318	.318					.636
		3.472	3.472	4.973	4.973			9.109	9.109		12.51	12.51					22.85
4	4.5	.083	.083	.120	.120			.237	.237	.281	.337	.337		.438		.531	.674
		3.915	3.915	5.613	5.613			10.79	10.79	12.66	14.98	14.98		19.00		22.51	27.54
4½	5.0							.247				.355					.710
								12.53				17.61					32.53
5	5.563	.109	.109	.134	.134			.258	.258		.375	.375		.500		.625	.750
		6.349	6.349	7.770	7.770			14.62	14.62		20.78	20.78		27.04		32.96	38.55
6	6.625	.109	.109	.134	.134			.280	.280		.432	.432		.562		.719	.864
		7.585	7.585	9.289	9.289			18.97	18.97		28.57	28.57		36.39		45.30	53.16
7	7.625							.301				.500					.875
								23.57				38.05					63.08
8	8.625	.109	.109	.148	.148	.250	.277	.322	.322	.406	.500	.500	.594	.719	.812	.906	.875
		9.914	9.914	13.40	13.40	22.36	24.70	28.55	28.55	35.64	43.39	43.39	50.87	60.63	67.76	74.69	72.42
9								.342				.500					
								33.90				48.72					
10	10.75	.134	.134	.165	.165	.250	.307	.365	.365	.500	.594	.500	.719	.844	1.000	1.125	
		15.19	15.19	18.65	18.65	28.04	34.24	40.48	40.48	54.74	64.33	54.74	76.93	89.20	104.1	115.6	
11	11.75							.375				.500					
								45.55				60.07					
12	12.75	.156	.156	.180	.180	.250	.330	.406	.375	.562	.688	.500	.844	1.000	1.125	1.312	
		20.98	20.98	24.16	24.16	33.38	43.77	53.53	49.56	73.16	88.51	65.42	107.2	125.5	139.7	160.3	
14	14.0	.156	.188	.250	.312	.375	.437	.375	.594	.750	.500	.938	1.094	1.250	1.406		
		23.07	27.73	36.71	45.68	54.57	63.37	54.57	84.91	106.1	72.09	130.7	150.7	170.2	189.1		
16	16.0	.165	.188	.250	.312	.375	.500	.375	.656	.844	.500	.1031	1.219	1.438	1.593		
		27.90	31.75	42.05	52.36	62.58	82.77	62.58	107.5	136.5	82.77	164.8	192.3	223.5	245.1		
18	18.0	.165	.188	.250	.312	.437	.562	.375	.750	.938	.500	1.156	1.375	1.562	1.781		
		31.43	35.76	47.39	59.03	82.06	104.8	70.59	138.2	170.8	93.45	208.0	244.1	274.2	308.5		
20	20.0	.188	.218	.250	.375	.500	.594	.375	.812	1.031	.500	1.281	1.500	1.750	1.968		
		39.78	46.05	52.73	78.60	104.1	122.9	78.6	166.4	208.9	104.1	256.1	296.4	341.1	379.0		
22	22.0		.250	.375	.500			.375	.875	1.125	.500	1.357	1.625	1.875	2.125		
			58.07	86.61	114.81			86.61	197.42	250.82	114.81	302.88	353.61	403.01	451.07		
24	24.0	.218	.250	.250	.375	.562	.687	.375	.969	1.219	.500	1.531	1.812	2.062	2.343		
		55.37	63.41	63.41	94.62	140.8	171.2	94.62	238.1	296.4	125.5	367.4	429.4	483.1	541.9		
30	30.0		.312	.500	.625			.375			.500						
			99.00	158.0	196.0			119.0			158.0						