Walton County
The Grove

Change Proposal #25
Additional Rock Removal

<u>General Contractor:</u>

Reeves Young
45 Peachtree Industrial Boulevard N.W.
Sugar Hill, GA 30518
770-271-1159

REEVES YOUNG

February 25, 2025

Walton County, GA
The Grove, a Walton County Parks &
Recreation Facility

Attn: John Ward, County Manager
Jeff Prine, Capital Project Manager –
Ascension Program Management

Change Proposal #25 – Additional Rock Removal (Rev 1)

The proposal below is for the additional rock blasted per the contractual unit rate allowances.

Reeves Young has reflected an accelerated schedule in hopes to deliver the project in 18 months in advance of the contractually obligated 24 months.

Per Matrix rock quantification summary, the final trench rock quantification totaled to 7,404.45 CY; 3,654.45 CY more than the original trench rock unit quantity. Walton County recognizes the 34 delay days identified in your most recent schedule update or 02.15.2025. These days are concurrent with your anticipated 18-month construction schedule and in no way changes or modifies the contract 730 days or 24 months delivery schedule.

Description	Qty	Unit	Unit Price	Total
Rock – Total Open Excavation	827.7	CY	$60.00	$49,636.20
Rock – Open Excavation Carried	(500)	CY	$75.00	($37,500.00)
Rock – Trench Excavation Carried	(1,250)	CY	$165.00	($206,250.00)
Rock – Total Trench Excavation	7,404.45	CY	$132.00	$977,387.40
Total Additional Cost	1	LS		**$783,273.60**

If you have any questions or require any additional information, please do not hesitate to contact us at (470) 725-0022 or via email at iarnold@reevesyoung.com

Sincerely,
Reeves Young, LLC

Isaiah Arnold

Project Manager

45 Peachtree Industrial Blvd, Suite 200 770.271.1159
Sugar Hill, GA 30518 reevesyoung.com

Approval

Lose Design (Architect of Record)	Signature:	Date: 2/25/25
Ascension PM (Capital Project Manager)	Signature: Thomas J. Prine	Date: 02.25.2025
Walton County	Signature:	Date:
Reeves Young	Signature:	Date: 02/25/25

The Grove at the Park - Walton County - Summary of Rock Quantities	
Stormwater Lines (CY)	5,035.97
Sanitary Sewer Lines (CY)	989.26
Water Lines (CY)	325.6
Structures (CY)	671.46
Musco Poles (CY)	127.46
French Drain (CY)	254.7
Mass Rock (CY)	827.27
Total (CY)	**8,231.72**

Matrix Engineering Group, Inc. February 05, 2025

STORMWATER PIPELINES ROCK VOLUME CALCULATION

	Structure 1	Structure 2	Structure 1 Invert Elevations	Structure 2 Invert Elevations	Pipeline Diameter (in)	Current Elevation (Averaged Survey)	Overburden Added (ft)	Average Invert Elevation (-6")	Blasting Log Depth to Rock (From Blasters Log Table)	Trench Width (ft)	Linear Feet	Rock Thickness (ft)	Volume (Cubic Yards)	Total
Blast 1	B8	B9	907.70	909.20	36	914.50	4	907.95	6	5	90	4.55	75.83	5035.97
Blast 2	B9	B10	909.20	909.02	36	917.81	0	908.61	3	5	56	6.20	64.30	
Blast 3	B10	B11	909.02	908.90	36	920.01	0	908.46	5	5	47	6.55	57.01	
	B11	B12	908.90	910.40	36	923.59	0	909.15	9	5	119	5.44	119.88	
Blast 4	B10	B26	914.25	917.01	18	920.03	0	915.13	3	3.5	45	1.89	11.05	
Blast 8	D1	D2	892.82	894.14	30	905.20	0	892.98	9	4.5	57	3.21	30.54	
	D2	D3	894.14	899.55	30	912.07	0	896.35	13	4.5	35	2.73	15.90	
Blast 12	D5	D6	903.42	903.98	24	915.06	0	903.20	8	4	105.7	3.86	60.44	
Blast 13	D7	D8	904.66	906.50	24	919.66	0	905.08	11	4	75	3.58	39.78	
	D8	D9	906.50	906.68	24	920.13	0	906.09	8	4	30	6.04	26.85	
	D8	D13	906.50	908.03	15	920.19	0	906.77	9	3.5	20	4.42	11.46	
Blast 14	D8	D9	906.50	906.68	24	919.68	0	906.09	9	4	35	4.59	23.80	
	D9	D10	906.68	908.15	15	919.40	0	906.91	9	3.5	80.7	3.49	36.50	
Blast 15	D10	D11	908.15	908.67	15	917.82	0	907.91	7	3.5	99.6	2.91	37.57	
	D11	D12	908.67	914.28	15	918.23	0	910.98	4	3.5	101.4	3.26	42.82	
	D8	D13	906.50	908.03	15	920.74	0	906.77	10	3.5	75	3.97	38.63	
Blast 16	D8	D13	906.50	908.03	15	920.74	0	906.77	9	3.5	15	4.98	9.67	
	D13	D14	908.03	908.27	15	919.16	0	907.65	8	3.5	106.7	3.51	48.55	
Blast 17	B12	B13	910.40	911.30	36	926.22	0	910.35	7	5	103	8.87	169.14	
	E1	E2	913.43	910.00	36	922.61	0	911.22	9	5	20	2.40	8.87	
Blast 18	B13	B14	911.30	908.75	36	926.67	0	909.53	5	5	75	12.15	168.68	
Blast 19	B13	B14	911.30	908.75	36	926.69	0	909.53	5.2	5	85	11.97	188.34	
	B14	B15	908.75	912.01	30	927.40	0	909.88	5.1	4.5	31	12.42	64.17	
	B14	B14.1	908.75	917.75	18	926.72	0	912.75	5.8	3.5	60.9	8.16	64.46	
	B15	B15.1	912.01	916.50	18	925.59	0	913.76	4.4	3.5	20.3	7.43	19.55	
	B15.1	B28	916.50	917.80	18	925.46	0	916.65	5.2	3.5	50	3.61	23.40	
Bast 20	B15	B16	912.01	915.22	30	927.57	0	913.12	4.3	4.5	80	10.16	135.45	
Blast 21	B15	B16	912.01	915.22	30	927.25	0	913.12	3	4.5	75	11.13	139.13	
Blast 22	B16	B17	915.22	914.72	30	927.55	0	914.47	2.6	4.5	63.8	10.48	111.44	
	B17	B18	914.72	916.25	30	927.26	0	914.99	3.1	4.5	20	9.17	30.57	
Blast 23	B17	B18	914.72	916.25	30	927.26	0	914.99	3.1	4.5	42.3	9.17	64.66	
	B18	B18.1	916.25	922.28	12	927.05	0	918.77	3.3	3.5	67.2	4.98	43.38	
	B18	B19	916.25	915.54	30	929.35	0	915.40	5.2	4.5	59.4	8.75	86.63	
	B19	B20	915.54	918.52	30	932.18	0	916.53	7.2	4.5	35	8.44	49.26	
Blast 24	B19	B20	915.54	918.52	30	931.35	0	916.53	4.5	4.5	62.5	10.32	107.45	
	B20	B21	918.52	919.16	30	935.42	0	918.34	9.5	4.5	89.6	7.58	113.14	
	B21	B22	919.16	920.66	18	934.93	0	919.41	7.5	3.5	67.7	8.02	70.38	

STORMWATER PIPELINES ROCK VOLUME CALCULATION

	Structure 1	Structure 2	Structure 1 Invert Elevations	Structure 2 Invert Elevations	Pipeline Diameter (in)	Current Elevation (Averaged Survey)	Overburden Added (ft)	Average Invert Elevation (-6")	Blasting Log Depth to Rock (From Blasters Log Table)	Trench Width (ft)	Linear Feet	Rock Thickness (ft)	Volume (Cubic Yards)	Total
Blast 25	B21	B31	919.90	920.00	24	933.25	0	919.45	6.4	4	107.4	7.40	117.78	
	B31	B31.2	920.70	922.60	15	933.02	0	921.15	3.6	3.5	33.4	8.27	35.81	
Blast 26	B22	B22.1	920.80	921.00	18	934.43	0	920.40	6.8	3.5	25.1	7.22	23.51	
	B22.1	B22.2	921.10	921.30	15	934.83	0	920.70	8.4	3.5	29.9	5.73	22.21	
	B22	B23	923.60	924.40	18	934.89	0	923.50	6.5	3.5	79.9	4.89	50.65	
	B22.1	B22.1A	925.50	925.00	12	935.14	0	924.75	8.5	3.5	38.89	1.89	9.53	
Blast 27	B23	B23.1	924.90	924.50	12	934.73	0	924.20	6.5	3.5	55.8	4.03	29.17	
	B22.2	B22.3	921.40	922.50	15	934.18	0	921.45	7.9	3.5	46.2	4.83	28.95	
Blast 28	E7	E8	919.30	918.80	24	929.25	0	918.55	9.7	4	48.7	1.00	7.21	
	E8	E9	920.40	919.40	24	930.02	0	919.40	10.2	4	197.58	0.42	12.29	
Blast 29	E9	E10	920.60	920.50	24	932.64	0	920.05	11	4	17.2	1.59	4.04	
	E10	E11	922.50	923.30	18	933.22	0	922.40	9.2	3.5	72.9	1.62	15.26	
	B23	B24	925.30	927.00	18	930.98	0	925.65	1.6	3.5	140.8	3.72	67.99	
Blast 30	E41	E42	921.80	922.90	18	932.60	0	921.85	8.1	3.5	135	2.65	46.38	
Blast 31	E11	E12	923.40	923.90	18	933.71	0	923.15	9.0	3.5	50.1	1.56	10.10	
	E12	E13	924.00	924.50	18	933.58	0	923.75	7.0	3.5	57.6	2.83	21.09	
	E13	E14	924.60	925.00	18	933.14	0	924.30	3.9	3.5	43.2	4.94	27.64	
	E14	E14.1	925.00	925.50	12	932.24	0	924.75	4.3	3.5	47.82	3.19	19.74	
	E14	E15	925.10	925.50	18	932.35	0	924.80	3.3	3.5	41.9	4.25	23.06	
	E15	E16	925.60	926.00	18	931.51	0	925.30	3.8	3.5	26.1	2.41	8.15	
Blast 32	E41	E42	921.80	922.90	18	932.60	0	921.85	4.7	3.5	174.5	6.05	136.85	
	E42	E42.1	923.50	924.30	18	931.70	0	923.40	4.0	3.5	25	4.30	13.94	
Blast 33	E31	E30	921.90	921.00	18	925.42	0	920.95	3.0	3.5	91.1	1.46	17.30	
	E30	E29	920.90	920.00	18	928.83	0	919.95	1.9	3.5	84.5	6.98	76.40	
	E29	E28	919.50	918.60	24	930.98	0	918.55	2.5	4	85	9.92	124.98	
Blast 34	E28	E25	918.50	917.00	24	927.66	0	917.25	2.5	4	181.8	7.90	212.91	
	E25	E44	924.90	923.00	12	927.66	0	923.45	2.8	3.5	76.9	1.40	14.01	
	E44	E45	927.00	925.10	12	930.65	0	925.55	4.2	3.5	151.7	0.90	17.70	
Blast 35	E25	E24	916.90	916.30	24	925.67	0	916.10	1.8	4	115.5	7.77	132.87	
	E24	E23	916.40	915.70	24	922.37	0	915.55	1.1	4	95	5.72	80.50	
	E23	E23.1	919.50	922.90	15	922.38	0	920.70	1.0	3.5	46.9	0.67	4.10	
Blast 36	E23	E22	915.60	915.30	24	921.56	0	914.95	1.7	4	52.5	4.91	38.19	
	E22	E22.1	917.00	918.00	12	922.03	0	917.00	1.3	3.5	43	3.72	20.76	
	E22	E21	915.10	914.60	24	921.75	0	914.35	2.0	4	30.4	5.39	24.30	
	E21	E20	914.60	914.20	30	921.58	0	913.90	3.4	4.5	65.1	4.28	46.44	
	E20	E19	914.10	913.30	30	919.79	0	913.20	7.0	4.5	30	-0.41	-2.05	
Blast 37	G1	G2	910.00	910.50	36	917.17	0	909.75	5.2	5	89.9	2.21	36.88	

Week 11/11 - 11/15

STORMWATER PIPELINES ROCK VOLUME CALCULATION

	Structure 1	Structure 2	Structure 1 Invert Elevations	Structure 2 Invert Elevations	Pipeline Diameter (in)	Current Elevation (Averaged Survey)	Overburden Added (ft)	Average Invert Elevation (-6")	Blasting Log Depth to Rock (From Blasters Log Table)	Trench Width (ft)	Linear Feet	Rock Thickness (ft)	Volume (Cubic Yards)	Total
Blast 38	G2	G3	911.05	910.50	36	917.37	0	910.28	5.8	5	50	1.29	11.94	
	G3	G4	911.05	912.80	36	918.23	0	911.43	3.5	5	75	3.30	45.83	
Blast 39	G3	G4	911.05	912.80	36	918.23	0	911.43	1.0	5	85	5.80	91.30	ek 11/18 - 11/22
	G3.1	G3.2	912.30	913.00	24	918.22	0	912.15	3.9	4	60	2.17	19.29	
	G3.2	G3.3	913.50	914.20	18	918.63	0	913.35	2.0	3.5	20	3.28	8.50	
Blast 41	G3	G4	911.05	912.80	36	918.23	0	911.43	0.1	5	175.5	6.70	217.75	
	G3.2	G3.3	913.50	914.20	18	918.63	0	913.35	2.2	3.5	111.8	3.08	44.64	
Blast 42	G3	G4	911.05	912.80	36	918.23	0	911.43	0.0	5	85	6.80	107.04	
	G4	G4.1	912.80	913.00	36	919.20	0	912.40	0.0	5	28.5	6.79	35.86	
	G4.1	G4.2	914.00	914.10	24	919.26	0	913.55	0.2	4	21.7	5.51	17.70	
	G4.2	G4.3	914.1	914.7	24	919.46	0	913.90	2.6	4	109.8	2.96	48.15	
Blast 43	G4	G5	912.8	914.3	36	919.58	0	913.05	2.0	5	185	4.53	155.02	
	E19	E19.1	913.8	914.6	15	919.38	0	913.70	5.0	3.5	72.1	0.68	6.36	
Blast 44	G4	G5	912.8	915.3	36	919.58	0	913.55	2.0	5	70	4.03	52.18	
	G4.3	G4.4	914.70	915.10	24	919.78	0	914.40	3.9	4	60	1.48	13.16	
Blast 45	Field Drain Field 2		908.00	910.67	8	913.50	0	908.84	2.0	3.5	225	2.66	77.73	
Blast 47	G5	G6	914.50	915.00	36	920.14	0	914.25	2.0	5	56.3	3.89	40.56	
	G6	G7	915.30	915.70	36	921.18	0	915.00	2.9	5	25.3	3.28	15.37	
	BP1	BP2	918.00	918.40	48	920.05	0	917.70	2.3	6	55	0.05	0.61	
Blast 54	B31	B31.1	923.70	922.20	12	931.90	0	922.45	6.5	3.5	109	2.95	41.68	

SANITARY SEWER PIPELINES ROCK VOLUME CALCULATION

	Structure 1	Structure 2	Structure 1 Invert Elevations	Structure 2 Invert Elevations	Pipeline Diameter (in)	Current Elevation (Averaged Structures)	Overburden Added (ft)	Average Invert Elevation (-6")	Blasting Log Depth to Rock (From Blasters Log Table)	Trench Width (ft)	Linear Feet	Rock Thickness (ft)	Volume	Total
*	Main4	Main6	903.50	910.60	8	919.68	0	907.05	5.5	3.5	15	7.13	13.86	989.26
**	Main6	Main7	910.60	913.70	8	921.10	0	912.15	4	3.5	305	4.95	195.87	
***	A1	A2	907.00	908.00	8	919.26	0	907.50	5.7	3.5	345	6.06	270.93	
	A2	A3	908.00	909.75	8	918.19	0	908.88	7.3	3.5	40	2.02	10.45	
	Main7	Main8	914.40	916.20	8	927.22	0	915.30	9.9	3.5	75	2.02	19.66	
Blast 30	Main9	Main10	918.75	920.50	8	931.83	0	919.63	8	3.5	135	4.20	73.56	
Blast 32	Main10	Main11	920.50	923.00	8	929.74	0	921.75	2.1	3.5	95	5.89	72.53	
Blast 36	L2	Building L	920.08	922.50	8	928.00	0	921.29	3.1	3.5	100	3.61	46.80	
Blast 46	Main8	Main9	916.20	917.10	8	930.75	0	916.65	9.6	3.5	30	4.50	17.50	
	Main9	Main10	918.75	920.50	8	930.75	0	919.63	11.1	3.5	48	0.03	0.16	
Blast 48	Main9	L1	918.80	919.01	8	929.61	0	918.91	6.4	3.5	226.25	4.30	126.26	
Blast 51	Main9	Main10	918.75	920.50	8	930.75	0	919.63	9.1	3.5	65	2.03	17.06	
Blast 52	Main11	M1	923.10	924.30	8	932.15	0	923.70	6.6	3.5	237.22	1.85	56.89	
Blast 53	M1	Building J	924.30	925.50	8	932.75	0	924.90	4.8	3.5	171.3	3.05	67.73	

* Some of the sanitary sewer line is included in the stormwater line B8-B9

** Segmented into 3 blasts, segment 1 38.50, segment 2 51.54, segment 3 105.55

*** A1 - A2 segmented into 2 blasts. sta 2+21 - sta 3+81 quantified to 106.81, sta 3+81 - sta 5+58 164.12

WATER LINE ROCK VOLUME CALCULATION

	Structure 1	Structure 2	Structure 1 Invert Elevations	Structure 2 Invert Elevations	Pipeline Diameter (in)	Current Elevation (Averaged Structures)	Overburden Added (ft)	Average Invert Elevation (-6")	Blasting Log Depth to Rock (From Blasters Log Table)	Trench Width (ft)	Linear Feet	Rock Thickness (ft)	Volume	Total
Blast 58	FDC Building L	FDC Connection	924.63	924.63	8	927.96	0	924.63	3.3	3.5	55	0.03	0.19	325.60
Blast 59/60	FDC Building L	FDC Connection	924.63	924.63	8	933.40	0	924.63	4.1	3.5	80	4.67	48.43	
Blast 58	Water next to FDC		924.63	924.63	8	927.96	0	924.63	3.3	3.5	55	0.03	0.19	
Blast 59/60	Water next to FDC		924.63	924.63	8	933.40	0	924.63	4.1	3.5	80	4.67	48.43	
Blast 58	Building L	near B22	924.63	924.63	8	927.96	0	924.63	3.4	3.5	55	-0.07	0.00	
Blast 60	Building L	near B22	924.63	924.63	8	933.40	0	924.63	5.6	3.5	65	3.17	26.71	
Blast 61	Building L	near B22	923.50	923.50	8	934.25	0	923.50	6.5	3.5	70	4.25	38.56	
Blast 38	G3	G4	913.00	913.25	8	917.72	0	913.13	2	3.5	25	2.59	8.39	
Blast 39	G3	G4	913.00	913.25	8	917.72	0	913.13	1	3.5	75	3.59	34.90	
Blast 41	G4	cross roadway	915.50	915.50	8	918.91	0	915.50	1.1	3.5	40	2.31	11.98	
Blast 41	G3	G4	913.00	913.25	8	917.72	0	913.13	0	3.5	85	4.59	50.58	
Blast 42	G3	G4	913.00	913.25	8	917.72	0	913.13	0	3.5	50	4.59	29.75	
Blast 43	G4	G5	914.86	918.58	8	919.27	0	916.72	2	3.5	175	0.55	12.43	
Blast 44	G4	G5	914.86	918.58	8	919.27	0	916.72	1	3.5	75	1.55	15.05	

* Some of the sanitary sewer line is included in the stormwater line B8-B9

** Segmented into 3 blasts, segment 1 38.50, segment 2 51.54, segment 3 105.55

*** A1 - A2 segmented into 2 blasts. sta 2+21 - sta 3+81 quantified to 106.81, sta 3+81 - sta 5+58 164.12

STRUCTURE ROCK VOLUME CALCULATION

Structure	Bottom of Structure Elevation	Current Elevation	Structure Diameter (in)	Blasting Log Depth to Rock (From Blasters Log Table)	Trench Width (ft)	Linear Feet	Bottom of Structure -6"	Rock Elevation	Rock Thickness (ft)	Volume (Cubic Yards)	Total	
D1	892.50	900.76	86	6	9.2	9.2	892.00	894.76	2.76	8.59	671.46	
D2	893.75	909.63	58	13	6.8	6.8	893.25	896.63	3.38	5.85		
D3	900.50	912.07	58	13	6.8	6.8	900.00	899.07	-0.93	0.00		
D5	902.75	914.62	58	11	6.8	6.8	902.25	903.62	1.37	2.37		
D6	904.00	915.42	58	9	6.8	6.8	903.50	906.42	2.92	5.05		
D8	906.50	920.80	72	9	8.0	8.0	906.00	911.80	5.80	13.75		
D9	907.00	920.01	58	9	6.8	6.8	906.50	911.01	4.51	7.80		
D10	908.25	919.34	58	7	6.8	6.8	907.75	912.34	4.59	7.94		
D11	908.75	917.42	58	4	6.8	6.8	908.25	913.42	5.17	8.94		
D12	914.00	920.42	58	5	6.8	6.8	913.50	915.42	1.92	3.32		
D13	907.50	920.27	58	9	6.8	6.8	907.00	911.27	4.27	7.38		
D14	908.25	917.76	58	6	6.8	6.8	907.75	911.76	4.01	6.93		
B9	908.50	917.00	72	5	8.0	8.0	908.00	912.00	4.00	9.48		
B10	909.50	918.62	72	4	8.0	8.0	909.00	914.62	5.62	13.32		
B11	910.00	921.40	72	6	8.0	8.0	909.50	915.40	5.90	13.99		
B12	910.50	925.78	72	9	8.0	8.0	910.00	916.78	6.78	16.07		
B13	911.50	926.32	72	6	8.0	8.0	911.00	920.32	9.32	22.09		
B14	912.50	927.26	72	6	8.0	8.0	912.00	921.26	9.26	21.95		
B14.1	917.50	926.30	72	6	8.0	8.0	917.00	920.30	3.30	7.82		
B15	913.50	927.30	58	5	6.8	6.8	913.00	922.30	9.30	16.08		
B15.1	916.75	925.43	58	4	6.8	6.8	916.25	921.43	5.18	8.96		
B16	915.50	927.30	58	4	6.8	6.8	915.00	923.30	8.30	14.35		
B17	915.50	927.36	58	2	6.8	6.8	915.00	925.36	10.36	17.92		
B18	916.50	927.02	58	3	6.8	6.8	916.00	924.02	8.02	13.87		
B18.1	923.10	927.37	58	4	6.8	6.8	922.60	923.37	0.77	1.33		
B19	917.00	932.50	58	7	6.8	6.8	916.50	925.50	9.00	15.56		
B20	917.50	934.95	58	9	6.8	6.8	917.00	925.95	8.95	15.48		
B21	918.50	935.80	86	10	9.2	9.2	918.00	925.80	7.80	24.27		
B22	920.50	933.87	58	6	6.8	6.8	920.00	927.87	7.87	13.61		
B22.1	920.50	934.98	58	7	6.8	6.8	920.00	927.98	7.98	13.80		
B22.1A	922.87	935.19	58	8	6.8	6.8	922.37	927.19	4.82	8.34		
B22.2	920.75	934.80	58	9	6.8	6.8	920.25	925.80	5.55	9.60		
B22.3	922.00	933.51	58	9	6.8	6.8	921.50	924.51	3.01	5.21		
B23	924.00	935.87	58	6	6.8	6.8	923.50	929.87	6.37	11.02		
B23.1	924.40	933.92	58	6	6.8	6.8	923.90	927.92	4.02	6.95		
B31	919.50	933.02	58	5	6.8	6.8	919.00	928.02	9.02	15.60		
B31.2	922.00	933.02	58	3	6.8	6.8	921.50	930.02	8.52	14.73		
E8	918.75	929.04	58	9	6.8	6.8	918.25	920.04	1.79	3.10		
E9	918.90	932.38	58	11	6.8	6.8	918.40	921.38	2.98	5.15		
E10	919.75	933.19	58	10	6.8	6.8	919.25	923.19	3.94	6.81		
E11	922.75	933.73	58	9	6.8	6.8	922.25	924.73	2.48	4.29		
B24	927.25	926.25	58	0	6.8	6.8	926.75	926.25	-0.50	0.00		
E41	921.25	932.92	58	12	6.8	6.8	920.75	920.92	0.17	0.29		Blast 30 - 34
E12	925.50	933.87	58	9	6.8	6.8	925.00	924.87	-0.13	0.00		
E13	924.00	933.32	58	6	6.8	6.8	923.50	927.32	3.82	6.61		
E14	924.50	932.95	58	4	6.8	6.8	924.00	928.95	4.95	8.56		
E15	925.00	931.74	58	3	6.8	6.8	924.50	928.74	4.24	7.33		
E42	922.50	932.28	58	4	6.8	6.8	922.00	928.28	6.28	10.86		
E42.1	923.75	931.12	58	4	6.8	6.8	923.25	927.12	3.87	6.69		
E31	921.50	923.49	58	2	6.8	6.8	921.00	921.49	0.49	0.85		Week 11/4 - 11/8
E30	920.50	927.34	58	4	6.8	6.8	920.00	923.34	3.34	5.78		
E29	919.00	930.31	58	1	6.8	6.8	918.50	929.31	10.81	18.70		
E28	918.00	931.64	58	2	6.8	6.8	917.50	929.64	12.14	21.00		
E25	916.50	928.06	58	2	6.8	6.8	916.00	926.06	10.06	17.40		
E44	924.75	930.70	58	3	6.8	6.8	924.25	927.70	3.45	5.97		
E24	916.75	923.27	58	1	6.8	6.8	916.25	922.27	6.02	10.41		Week 11/11 - 11/15
E23	915.00	921.47	58	1	6.8	6.8	914.50	920.47	5.97	10.32		
E22	914.50	921.65	58	2	6.8	6.8	914.00	919.65	5.65	9.77		
E21	914.00	921.84	58	2	6.8	6.8	913.50	919.84	6.34	10.96		
E20	913.50	921.32	58	7	6.8	6.8	913.00	914.32	1.32	2.28		
E22.1	916.50	922.40	58	3	6.8	6.8	916.00	919.40	3.40	5.88		
G1	909.50	917.14	86	1	9.2	9.2	909.00	916.14	7.14	22.22		
G3	910.50	917.54	86	5	9.2	9.2	910.00	912.54	2.54	7.90		
G3.3	913.75	918.97	58	3	6.8	6.8	913.25	915.97	2.72	4.70		
G4.4	914.40	919.00	58	5	6.8	6.8	913.90	914.00	0.10	0.17		

STRUCTURE ROCK VOLUME CALCULATION

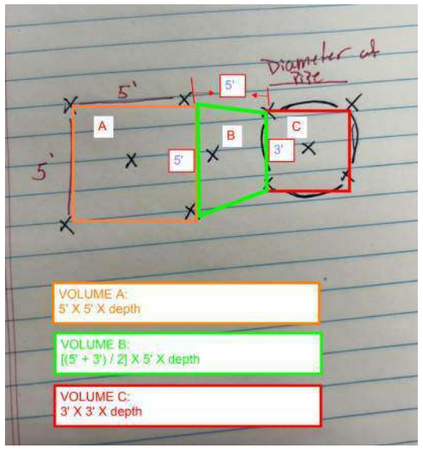
Structure	Bottom of Structure Elevation	Current Elevation	Structure Diameter (in)	Blasting Log Depth to Rock (From Blasters Log Table)	Trench Width (ft)	Linear Feet	Bottom of Structure -6"	Rock Elevation	Rock Thickness (ft)	Volume (Cubic Yards)	Total
G5	913.75	920.24	72	2	8.0	8.0	913.25	918.24	4.99	11.83	
G6	914.50	920.04	86	2	9.2	9.2	914.00	918.04	4.04	12.57	
G7	915.25	922.32	72	3	8.0	8.0	914.75	919.32	4.57	10.83	
Main8	915.75	927.92	58	10	6.8	6.8	915.25	917.92	2.67	4.62	
Main7	913.75	925.50	58	10	6.8	6.8	913.25	915.50	2.25	3.89	
A2	909.25	918.28	58	7	6.8	6.8	908.75	911.28	2.53	4.38	

Matrix Engineering Group, Inc.

Blast	Musco Pole	Rock Thick	Rock Thick B	Rock Thick C	#	Volume A	#	Volume B	#	Volume C	Total Volume (cy)	Notes
Blast 42	E-2	7	7	5.8		6.48		9.72		1.93	18.14	
Blast 45	C-3	8	11	11		7.41		15.28		3.67	26.35	
Blast 40	A-4	3	2	2		2.78		2.78		0.67	6.22	
Blast 40	P-4	15.5	14	14.2		14.35		19.44		4.73	38.53	****Mislabeled as P-6
Blast 14	E-3	0	0	16		0.00		0.00		5.33	5.33	****Sections A and B were included in Stormwater Line at MH-D9
Blast 12	B-3	1.5	4.5	9		1.39		6.25		3.00	10.64	
Blast 11	C-4	0	0	6		0.00		0.00		2.00	2.00	****No holes drilled for Sections A and B
Blast 15	E-1	0	0	0		0.00		0.00		0.00	0.00	****Included within Blast 15 Stormwater D8 - D13

Column 1	Musco Pole	Diameter (ft	Height 1 (ft)	Height 2 (ft)	#	Height 3 (ft)	#	Height 4 (ft)	Height 5 (ft)	Total Volume (cy)
Measured	P-1	2.75	1.00	2.00						2.07
	P-2	2.75	3.83	3.50		2.67		1.33		7.82
	P-3	2.75	3.00	3.00						4.14
	P-6	2.75	3.83	4.00		1.17				6.21

Total Rock Quantity **127.46 Cubic Yards**



Matrix Engineering Group, Inc.

The Grove at The Park Rock Quantity Calculation - Mass Rcok

Blast No	Row Spacing f	Column Spaci	No. Rows	No. Columns	Depth to Rock	Designed Elevatio	Current Elev	Area (sqyds)	Volume (cuyds
Blast 49	6	6	14	4	0			Rippable Rock Bla	
Blast 50	5	5	3	9	0			Rippable Rock Bla	
Blast 55	5	5	15	5	0	902.67	908.1	155.6	307.83
Blast 56	5	5	17	5	0	904.75	909.7	177.8	321.78
Blast 57	5	5	10	5	0	906.00	911.4	100.0	197.67
								Total	**827.27**

FRENCH DRAIN PIPELINES ROCK VOLUME CALCULATION

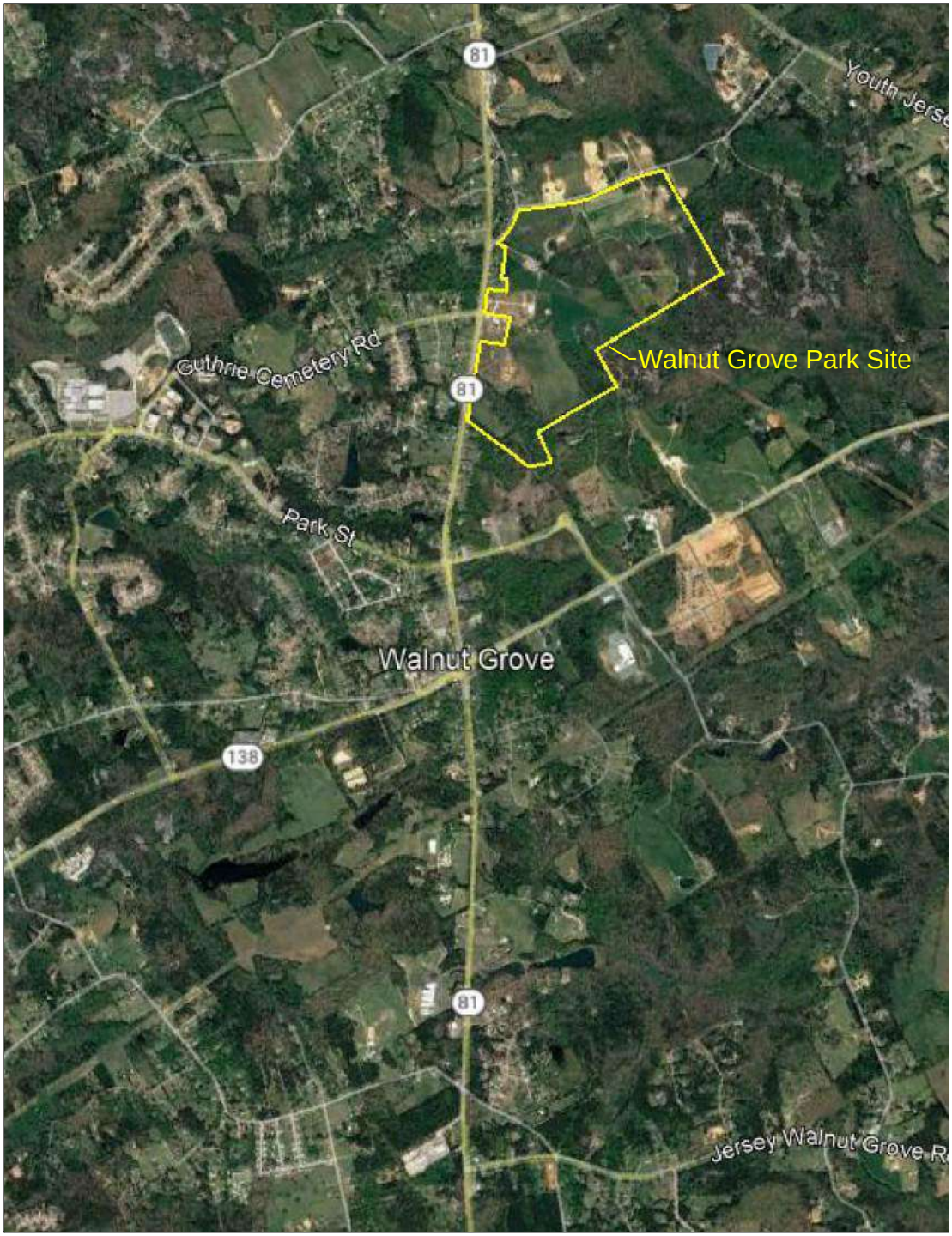
Date	Structure 1	Structure 2	Structure 1 Invert Elevations	Structure 2 Invert Elevations	Pipeline Diameter (ft)	Current Elevation (Averaged)	Overburden Added (ft)	Average Invert Elevation (-6")	Blasting Log Depth to Rock (From Blasters Log Table)	Trench Width (ft)	Linear Feet	Rock Thickness (ft)	Volume	Total
10/2/2024	French Drain		889	891.5	0.83	893.82	0	890.25	0	3.5	75	3.57	34.71	254.70
10/3/2024	French Drain		886.00	889.00	0.83	893.82	0	887.50	1	3.5	210	5.32	144.82	
10/8/2028	French Drain		906.00	898.40	0.83	910.40	0	901.70	6.04	3.5	218	2.66	75.17	

* Some of the sanitary sewer line is included in the stormwater line B8-B9

** Segmented into 3 blasts, segment 1 38.50, segment 2 51.54, segment 3 105.55

*** A1 - A2 segmented into 2 blasts. sta 2+21 - sta 3+81 quantified to 106.81, sta 3+81 - sta 5+58 164.12

GENERAL ROCK ENCOUNTERED LAYOUT



0 0.25 0.5 1 1.5

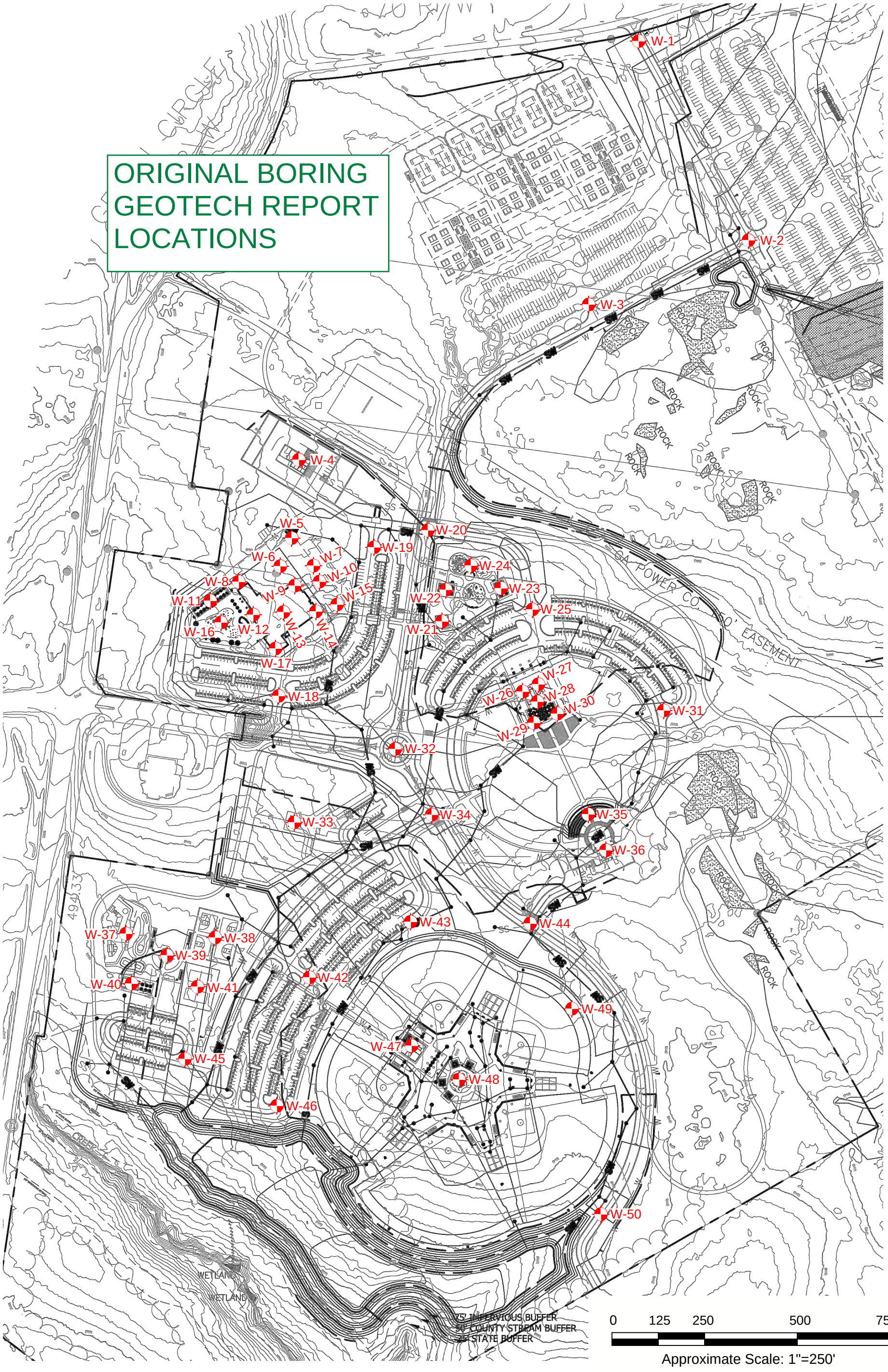
Approximate Scale, Miles

Figure 1: Site Location Plan

Walnut Grove Park
Walton County, Georgia
Geo-Hydro Project Number 222138.20

GEO HYDRO ENGINEERS

ORIGINAL BORING GEOTECH REPORT LOCATIONS

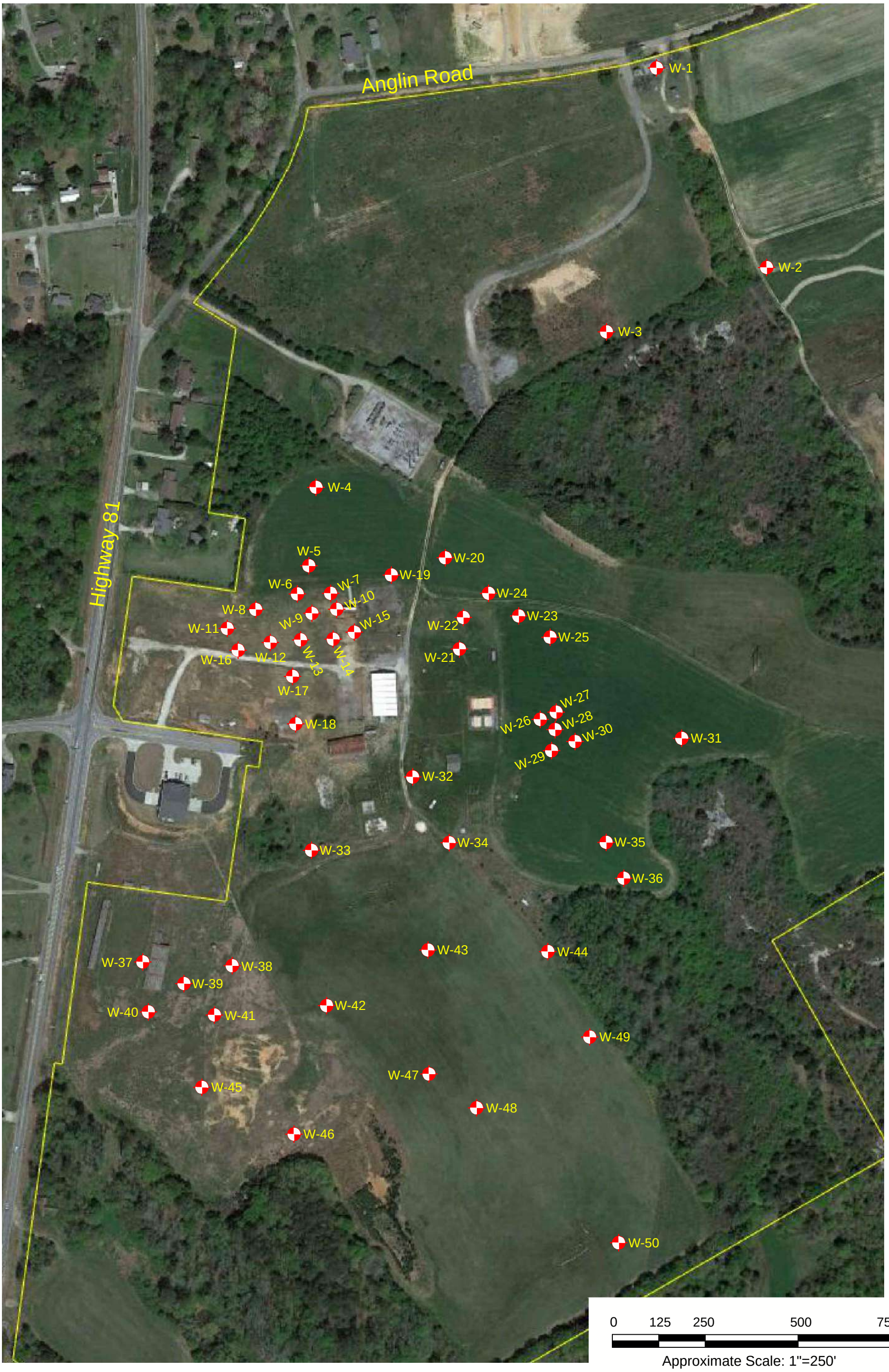


LEGEND: Soil Test Boring

Figure 2: Boring Location Plan

Walnut Grove Park
Walton County, Georgia
Geo-Hydro Project Number 222138.20

GEO HYDRO ENGINEERS



LEGEND: Soil Test Boring

Figure 3: Boring Location Plan

Walnut Grove Park
Walton County, Georgia
Geo-Hydro Project Number 222138.20

Symbols and Nomenclature

Symbols

▌	Thin-walled tube (TWT) sample recovered
▯	Thin-walled tube (TWT) sample not recovered
●	Standard penetration resistance (ASTM D1586)
50/2”	Number of blows (50) to drive the split-spoon a number of inches (2)
65%	Percentage of rock core recovered
RQD	Rock quality designation - % of recovered core sample which is 4 or more inches long
GW	Groundwater
	Water level at least 24 hours after drilling
	Water level one hour or less after drilling
ALLUV	Alluvium
TOP	Topsoil
PM	Pavement Materials
CONC	Concrete
FILL	Fill Material
RES	Residual Soil
PWR	Partially Weathered Rock
SPT	Standard Penetration Testing

Penetration Resistance Results	Number of Blows, N	Approximate Relative Density
Sands	0-4	very loose
	5-10	loose
	11-20	firm
	21-30	very firm
	31-50	dense
	Over 50	very dense

	Number of Blows, N	Approximate Consistency
Silts and	0-1	very soft
Clays	2-4	soft
	5-8	firm
	9-15	stiff
	16-30	very stiff
	31-50	hard
	Over 50	very hard

Drilling Procedures

Soil sampling and standard penetration testing performed in accordance with ASTM D 1586. The standard penetration resistance is the number of blows of a 140-pound hammer falling 30 inches to drive a 2-inch O.D., 1.4-inch I.D. split-spoon sampler one foot. Rock coring is performed in accordance with ASTM D 2113. Thin-walled tube sampling is performed in accordance with ASTM D 1587.

GEO HYDRO ENGINEERS

W-1

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **926**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
926	0			Topsoil (Approximately 3 inches)	
925				Very firm red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	29
	5				25
920				Loose tan and orange clayey fine to medium sand (SC)	10
	10				6
915				Loose tan-brown and gray silty fine to medium sand (SM)	
	15			Boring Terminated at 15 feet	6
910					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-2

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **9 feet**	G.S. Elev: **918**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **6 feet**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 2 inches)	
915				Loose to firm orange-tan and gray clayey fine to medium sand (SC) (RESIDUUM)	11
	5	▼			10
				Loose orange-brown and black silty fine to coarse sand (SM)	9
910		▽			
	10				7
905				Auger Refusal at 13 feet	
	15				
900					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-3

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **920**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 3 inches)	
				Firm red-brown and tan clayey fine sand (SC) (RESIDUUM)	13
915	5			Auger Refusal at 5 feet	15
910	10				
905	15				
900	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-4

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **933**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
933	0			Topsoil (Approximately 2 inches)	
				Firm to very firm orange-brown and tan silty fine to coarse sand (SC) (RESIDUUM)	
930					20
	5				22
925					12
	10				16
920					
	15			Boring Terminated at 15 feet	16
915					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-5

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **931**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
930	0			Topsoil (Approximately 2 inches)	
				Loose to firm red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	11
	5				10
925				Partially weathered rock sampled as tan and gray silty fine to coarse sand (SM)	50/5"
	10				50/4"
920				Auger Refusal at 13 feet	
	15				
915					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-6

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **932**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
930	0			Topsoil (Approximately 2 inches)	
				Loose red-brown clayey fine to medium sand (SC) (RESIDUUM)	6
	5				6
925				Loose to firm orange-tan and black silty fine to coarse sand (SM)	6
	10				13
920				Auger Refusal at 13 feet	
915	15				
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-7

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **933**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
930	0			Topsoil (Approximately 2 inches)	
				Loose red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	9
	5				9
				Partially weathered rock sampled as orange and gray silty fine to coarse sand (SM)	50/2"
925					
	10				50/3"
				Auger Refusal at 12 feet	
920					
	15				
915					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-8

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **926**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
926	0			Topsoil (Approximately 2 inches)	
				Loose to firm red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	14
925					
	5				13
920					7
	10				8
915				Loose tan-brown and black micaceous silty fine sand (SM)	
	15			Boring Terminated at 15 feet	8
910					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-9

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **930**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 2 inches)	
				Loose red-brown and tan clayey fine to medium sand (SM) (RESIDUUM)	9
925	5				9
				Partially weathered rock sampled as tan and gray silty fine to medium sand (SM)	50/1"
920	10				50/1"
				Auger Refusal at 11 feet	
915	15				
910	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-10

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **932**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
930	0			Topsoil (Approximately 2 inches) Loose red-brown and tan silty fine to coarse sand (SM) (RESIDUUM)	5
	5			Auger Refusal at 5 feet	7
925	10				
920					
915	15				
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-11

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **922**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
920	0			Topsoil (Approximately 2 inches)	
				Loose to firm tan-brown and white slightly micaceous silty fine to medium sand (SM) (RESIDUUM)	8
	5				12
915					9
	10				10
910					
	15			Boring Terminated at 15 feet	10
905					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-12

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **924**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 3 inches)	
				Firm tan-brown silty fine to coarse sand (SM) (RESIDUUM)	12
920	5				20
				Partially weathered rock sampled as tan and gray silty fine to coarse sand (SM)	50/2"
915	10				50/5"
				Auger Refusal at 12 feet	
910	15				
905	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-13

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **926**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N	Standard Penetration Test (Blows/Foot)
925	0			Topsoil (Approximately 2 inches)		
				Partially weathered rock sampled as tan and black silty fine to medium sand (SM) (RESIDUUM)	50/1"	
	5			Auger Refusal at 5 feet	50/0"	
920						
	10					
915						
	15					
910						
	20					

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-14

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **929**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N	Standard Penetration Test (Blows/Foot)
				Topsoil (Approximately 2 inches)		
				Partially weathered rock sampled as tan and gray silty fine to coarse sand (SM) (RESIDUUM)	50/2"	
925	5			Auger Refusal at 5 feet	50/0"	
920	10					
915	15					
910	20					

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-15

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **932**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
932	0			Topsoil (Approximately 2 inches)	
				Very loose to loose orange and tan silty fine to coarse sand (SM) (RESIDUUM)	4
930					
	5			Auger Refusal at 5 feet	8
925					
	10				
920					
	15				
915					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-16

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **923**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
923	0			Topsoil (Approximately 2 inches)	
				Loose to firm tan-brown micaceous silty fine to medium sand (SM) (RESIDUUM)	
920					6
	5				12
915					6
	10				7
910					
	15			Boring Terminated at 15 feet	17
905					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-17

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **926**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
926	0			Topsoil (Approximately 2 inches)	
925				Partially weathered rock sampled as orange-brown and gray silty fine to coarse sand (SM) (RESIDUUM)	50/2"
	5				50/2"
				Auger Refusal at 5 feet	
920					
	10				
915					
	15				
910					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-18

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **926**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
926	0			Topsoil (Approximately 3 inches)	
925				Firm red-brown and tan clayey fine to coarse sand (SC) (RESIDUUM)	13
	5				12
920				Partially weathered rock sampled as gray silty fine to medium sand (SM)	50/2"
				Auger Refusal at 8 feet	
	10				
915					
	15				
910					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-19

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/24/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **935**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 3 inches)	
				Firm red-brown clayey fine sand (SC) (RESIDUUM)	13
930	5				11
				Loose to firm orange and gray silty fine to coarse sand (SC)	7
925	10				12
				Auger Refusal at 13 feet	
920	15				
915	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-20

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **928**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N	Standard Penetration Test (Blows/Foot)
				Topsoil (Approximately 2 inches)		
				Firm red-brown clayey fine to medium sand (SC) (RESIDUUM)	50/3"	
925						
	5			Auger Refusal at 5 feet	50/1"	
920						
	10					
915						
	15					
910						
	20					

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-21

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **934**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
	0			Topsoil (Approximately 2 inches)	
				Firm red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	14
930	5				13
				Partially weathered rock sampled as orange and gray silty fine to coarse sand (SM)	50/3"
925	10				50/3"
				Auger Refusal at 12 feet	
920	15				
915	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-22

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **932**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
930	0			Topsoil (Approximately 2 inches)	
				Firm red-brown clayey fine to medium sand (SC) (RESIDUUM)	20
	5			Auger Refusal at 5 feet	19
925					
	10				
920					
	15				
915					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-23

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/27/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **931**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
930	0			Topsoil (Approximately 2 inches)	
				Loose to firm red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	10
	5			Auger Refusal at 5 feet	15
925					
	10				
920					
	15				
915					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-24

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **928**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
928	0			Topsoil (Approximately 2 inches)	
				Firm red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	17
925					
	5				16
				Firm orange-tan and gray silty fine to coarse sand (SM) with rock fragments	
					14
920					
	10				16
915				Auger Refusal at 13 feet	
	15				
910					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

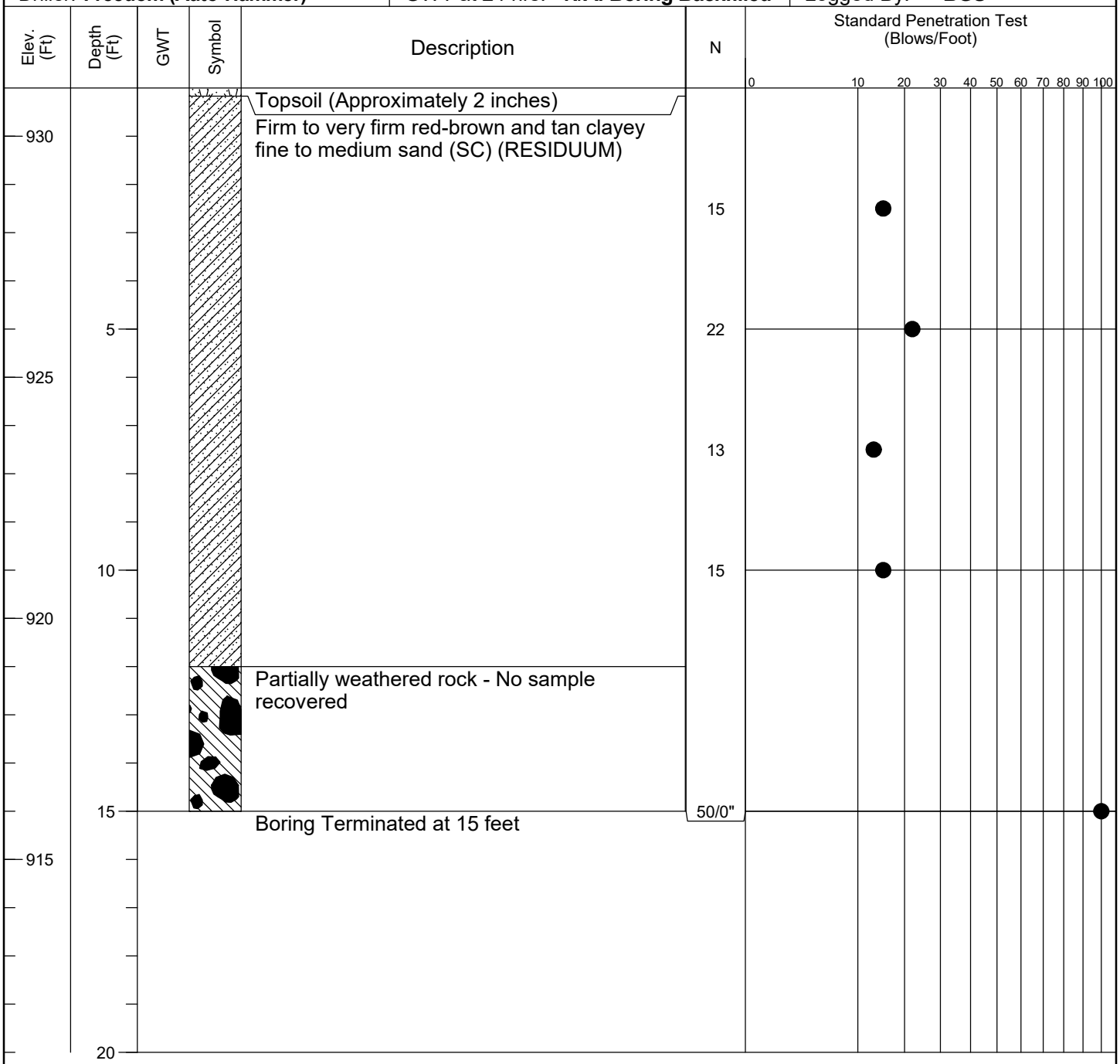
TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-25

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/27/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **931**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**



Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-26

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/27/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **930**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 2 inches)	
				Loose tan and red clayey fine to medium sand (SC) (RESIDUUM)	10
				Partially weathered rock sampled as tan and light gray silty fine to coarse sand (SM)	
925	5				50/4"
					50/5"
920	10				50/4"
				Auger Refusal at 12 feet	
915	15				
910	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-27

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/27/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **931**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
930	0			Topsoil (Approximately 2 inches)	
				Firm red-brown clayey fine sand (SC) (RESIDUUM)	12
				Partially weathered rock sampled as orange and tan silty fine to coarse sand (SM)	
925	5			Auger Refusal at 5 feet	50/4"
920	10				
915	15				
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-28

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/27/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **930**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 2 inches)	
				Firm red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	15
925	5			Auger Refusal at 5 feet	16
920	10				
915	15				
910	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-29

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/27/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **929**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
929	0			Topsoil (Approximately 2 inches)	
				Loose to firm red-brown clayey fine to medium sand (SC) (RESIDUUM)	12
925	5			Auger Refusal at 5 feet	10
920	10				
915	15				
910	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-30

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/27/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **930**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 2 inches)	
				Loose orange and brown clayey fine to medium sand (SC) (RESIDUUM)	7
925	5				7
				Partially weathered rock sampled as orange-brown and gray silty fine to coarse sand (SM)	50/3"
920	10				50/3"
				Auger Refusal at 12 feet	
915	15				
910	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-31

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/27/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **931**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N	Standard Penetration Test (Blows/Foot) 0 10 20 30 40 50 60 70 80 90 100
930				Topsoil (Approximately 2 inches)		
				Partially weathered rock sampled as white and gray silty fine to coarse sand (SM) (RESIDUUM)	50/1"	●
				Auger Refusal at 3 feet		
925	5					
920	10					
915	15					
	20					

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-32

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **928**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
928	0			Topsoil (Approximately 3 inches)	
				Loose red-brown and tan clayey fine to coarse sand (SC) (RESIDUUM)	8
925					
	5				8
				Partially weathered rock sampled as orange and gray silty fine to coarse sand (SM)	
920					50/4"
	10				50/4"
				Auger Refusal at 12 feet	
915					
	15				
910					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-33

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **920**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N	Standard Penetration Test (Blows/Foot)
				Topsoil (Approximately 2 inches)		
				Partially weathered rock sampled as orange and tan silty fine to coarse sand (SM) (RESIDUUM)	50/5"	
915	5				50/1"	
					50/5"	
910	10				50/5"	
				Auger Refusal at 11 feet		
905	15					
900	20					

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-34

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **926**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
925	0			Topsoil (Approximately 2 inches)	
				Firm orange and brown clayey fine to medium sand (SC) (RESIDUUM)	14
	5				15
920				Partially weathered rocks sampled as orange and tan silty fine to coarse sand (SM)	50/3"
	10				50/2"
915				Auger Refusal at 12 feet	
	15				
910					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-35

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/27/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **924**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 2 inches)	
				Dense tan and gray clayey fine to coarse sand (SC) (RESIDUUM)	32
920				Partially weathered rock sampled as tan and gray clayey fine to coarse sand (SC)	
	5				50/5"
				Loose to firm orange-brown and gray silty fine to coarse sand (SC)	
					13
915					
	10				8
				Auger Refusal at 13 feet	
910					
	15				
905					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-36

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/27/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **922**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
920	0			Topsoil (Approximately 2 inches)	
				Firm to very firm red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	22
	5				15
915				Partially weathered rock sampled as orange-brown and gray silty fine to coarse sand (SM)	50/4"
	10				50/1"
910				Auger Refusal at 13 feet	
	15				
905					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-37

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **902**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
900	0			Topsoil (Approximately 2 inches)	
				Firm red-brown slightly micaceous silty fine sand (SC) (RESIDUUM)	14
	5				12
895				Loose tan-brown micaceous silty fine sand (SM)	8
	10				10
890					
	15			Boring Terminated at 15 feet	7
885					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-38

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **904**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
904	0			Topsoil (Approximately 2 inches)	
				Firm red-brown clayey fine sand (SC) (RESIDUUM)	14
900	5				12
				Loose tan-brown and orange micaceous silty fine to medium sand (SM)	8
895	10				9
890	15			Boring Terminated at 15 feet	7
885	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-39

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **902**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
900	0			Topsoil (Approximately 2 inches)	
				Firm orange-brown and gray clayey fine sand (SC) (RESIDUUM)	15
	5				15
895					15
	10				15
890				Loose orange-brown and gray micaceous silty fine sand (SM)	
	15			Boring Terminated at 15 feet	7
885					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-40

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **898**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
898	0			Topsoil (Approximately 3 inches)	
				Loose to firm red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	
895					15
	5				14
890					12
	10				16
885					
	15			Boring Terminated at 15 feet	7
880					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-41

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **903**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
903	0			Topsoil (Approximately 2 inches)	
				Firm red-brown to tan clayey fine to medium sand (SC) (RESIDUUM)	16
900					
	5				17
					14
895				Loose tan-brown and orange micaceous silty fine to medium sand (SM)	
	10				10
890					
	15			Boring Terminated at 15 feet	10
885					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-42

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **910**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 2 inches)	
				Loose red-brown clayey fine sand (SC) (RESIDUUM)	5
905	5				8
				Loose orange to tan-brown slightly micaceous silty fine to coarse sand (SM)	8
900	10				8
895	15			Boring Terminated at 15 feet	8
890	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-43

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **916**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
915	0			Topsoil (Approximately 2 inches)	
				Very loose to loose orange-brown and gray clayey fine to medium sand (SC) (RESIDUUM)	5
	5			Auger Refusal at 5 feet	4
910					
	10				
905					
	15				
900					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-44

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **920**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 2 inches)	
				Loose to firm red-brown and tan clayey fine sand (SC) (RESIDUUM)	11
915	5			Auger Refusal at 5 feet	10
910	10				
905	15				
900	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-45

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **902**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
902	0			Topsoil (Approximately 2 inches)	
				Firm red-brown and tan clayey fine sand (SC) (RESIDUUM)	17
900					
	5				15
				Loose to firm orange and tan micaceous silty fine sand (SM)	
895					11
	10				9
890					
	15			Boring Terminated at 15 feet	7
885					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-46

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **908**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
908	0			Topsoil (Approximately 2 inches)	
				Loose to firm orange-brown and gray silty fine to coarse sand (SM) (RESIDUUM)	
905					13
	5				9
900					11
	10				10
895					
	15			Boring Terminated at 15 feet	12
890					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-47

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/26/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **915**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 2 inches)	
				Loose red-brown clayey fine sand (SC) (RESIDUUM)	7
910	5				6
				Loose orange and tan to white slightly micaceous silty fine to medium sand (SM)	7
905	10				6
900	15			Boring Terminated at 15 feet	9
895	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-48

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **920**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 3 inches)	
				Firm to very firm red-brown and tan clayey fine to medium sand (SC) (RESIDUUM)	23
915	5				18
				Firm tan and gray silty fine to coarse sand (SM)	16
910	10				14
				Partially weathered rock sampled as tan and gray silty fine to coarse sand (SM)	
905	15			Boring Terminated at 15 feet	50/2"
900	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-49

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **919**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
				Topsoil (Approximately 2 inches)	
				Firm red-brown clayey fine sand (SC) (RESIDUUM)	11
915	5				12
				Partially weathered rock - No sample recovered	50/1"
				Auger Refusal at 8 feet	
910	10				
905	15				
900	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22

W-50

Test Boring Record

GEO HYDRO ENGINEERS

Project: **Walnut Grove Park**		Project No: **222138.20**
Location: **Walton County, Georgia**		Date: **10/25/22**
Method: **HSA- ASTM D1586**	GWT at Drilling: **Not Encountered**	G.S. Elev: **908**
Driller: **Freedom (Auto-Hammer)**	GWT at 24 hrs: **N/A: Boring Backfilled**	Logged By: **BGS**

Elev. (Ft)	Depth (Ft)	GWT	Symbol	Description	N
908	0			Topsoil (Approximately 2 inches)	
				Very firm orange-brown and tan clayey fine to coarse sand (SC) with rock fragments (RESIDUUM)	27
905				Partially weathered rock sampled as orange-brown and tan clayey fine to coarse sand (SC)	
	5			Auger Refusal at 5 feet	50/2"
900					
	10				
895					
	15				
890					
	20				

Standard Penetration Test (Blows/Foot)

0 10 20 30 40 50 60 70 80 90 100

Remarks:

TEST BORING RECORD BORING LOGS - WALNUT GROVE.GPJ GEO HYDRO.GDT 11/11/22