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Site Plan and Subdivision Design
Surveying
Land Use Planning
Water and Wastewater Design
Environmental Consulting
Inspection / Construction Management

TOWNSHIP OF GALLOWAY ATLANTIC COUNTY, NEW JERSEY

GRIST MILL PUMP STATION CONTRACT NO. 10

PROJECT ADDENDUM No. 2

To: All Planholders:

In response to the questions our office has received regarding the various aspects of the above referenced project please accept the following responses in order to clarify the issues.

Please note the following changes to the contract documents for the above referenced project. The following addendum is hereby made part of the Bid Documents for the GRIST MILL PUMP STATION, CONTRACT NO. 10, as fully and completely as if the same were set forth herein.

- A. The Bid Opening date of Thursday, February 28, 2019 as noted on Addendum No. 1 shall now be extended to Thursday, March 14, 2019 at 10:00 am at the same location.
 - 1. Question: What size is the feeder that is being extended from the control building to the in ground electrical junction box that is shown on page PS1?

Response: The conductor feeds from the building to the in ground junction box shall be sized for submersible pump motors, per NEC, latest revision.

2. Question: What size is the feeder that is being extended from the control building to the meter chamber manhole that is shown on page PS1?

Response: No conductor feeds are to be provided from the building to the meter chamber manhole. Two sets of pull lines shall be provided in the conduit for the future installation of conductors.

3. Question: What size is the feeder that is being extended from the control building to the chemical feed system that is shown on page PS1?

Response: The conductor feeds from the building to the chemical feed system shall be sized to power the control unit per the manufacturer's recommendations.

4. Question: Under Item No. 13 there is a discrepancy in the Linear Foot quantity as shown on page P-4 of the Proposal section and on page TS-30 of the Technical Specifications.

Response: The quantity of 925 Linear Feet for Item No. 13 is correct.

5. Question: Are there any soil borings to show the elevation of ground water?

6684 Washington Avenue, Egg Harbor Township, NJ 08234 55 E. Jimmie Leeds Road, Galloway, NJ 08205 Phone: 609.646.2950 Fax: 609.646.2949 www.polistina.net

Response: A complete soil boring log is attached and made part of this Addendum No. 2 Please acknowledge your receipt of this clarification by signing below and faxing this form to (609) 646 2949. Acknowledgement is required.
I acknowledge receipt of ADDENDUM No. 2 to Contract No. 10 as indicated above.
Signature
Print Name, Company Name & Date



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FIELD SOIL & ROCK CLASSIFICATION SYSTEM

Craig Testing Laboratories, Inc. uses the following definitions, abbreviations and terminologies to classify and correlate soil and rock samples in the field.

Soil samples are described as follows:

USCS Group Name, USCS group symbol, color, state, moisture condition, fabric (fibrous, cemented, varved, lenses, Saprolite) and odor (hydrocarbon-like, organic, etc.)

Rock cores are described as follows:

Type, color, hardness, degree of weathering, fracture spacing, quality, and if applicable: bedding thickness, relative dip and spacing of joints.

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS - ASTM D-2488) symbols and group names are:

SOIL PARTICLE SIZE IDENTIFICATION

	Diameter		Sieve Retained		
Boulders	Greater th	an 12 inch	12"	MODIFIERS	
Cobbles	3 to 12 inc	eh	3"	Description	Percent (by weight)
Gravel	Coarse -	0.75 to 3 inch	3/4"	Trace (tr)	1 - 4
	Fine -	4.75 mm to 0.75 inch	#4	With (w/)	5 – 12 (dual symbol)
Sand	Coarse -	2.0 to 4.75 mm	#10	Adjective (ly)	13 - 44
	Medium -	0.425 to 2.0 mm	#40	Borderline (/)	45 - 55
	Fine -	0.075 to 0.425 mm	#200		•
Silt & Clay	Smaller th	nan 0.075 mm	Passing #200		

COARSE (GRAINED SOIL	FINE GI	RAINED & ORGANIC SOIL
GP or GW	Poorly or well graded gravel	ML	Silt of low plasticity
GM or GC	Silty or clayey gravel	CL	Clay of low plasticity
GP-GM	Poorly graded gravel with silt	ML/CL	Clayey silt of low plasticity
GP-GC	Poorly graded gravel with clay	CL/ML	Silty clay of low plasticity
GW-GM	Well graded gravel with silt	MH	Silt of high plasticity
GW-GC	Well graded gravel with clay	CH	Clay of high plasticity
SP or SW	Poorly or well graded sand	MH/CH	Clayey silt of high plasticity
SM or SC	Silty or clayey sand	CH/MH	Silty clay of high plasticity
SP-SM	Poorly graded sand with silt		
SP-SC	Poorly graded sand with clay	OL	Organic silt/clay of low plasticity
SW-SM	Well graded sand with silt	OH	Organic silt/clay of high plasticity
SW-SC	Well graded sand with clay	PT	Peat and highly organic soil

STANDARD PENETRATION TEST (SPT - ASTM D-1586) - A 2.0" O.D. (1-3/8" I.D.) split barrel sampler is driven into undisturbed soil by means of a 140 pound weight hammer falling freely a vertical distance of 30 inches in 4 successive 6-inch increments, for a total drive of 24 inches (2 feet). The number of blows required for the middle 12 inches (1 foot) of penetration is the Standard Penetration Resistance (N).

STATE - GRAN	ULAR SOIL (Grave	el & Sand)	STATE - COHE	ESIVE SOIL (Clay & Silt)
Density	Approximate N V	alues	Consistency	Approximate N Values
Very Loose	4 blows/ft or less		Very Soft	1 blow/ft or less
Loose	5-10 blows/ft		Soft	2-4 blows/ft
Medium Dense	11 - 30 blows/ft		Medium Stiff	5-8 blows/ft
Dense	31 - 50 blows/ft		Stiff	9-15 blows/ft
Very Dense	51 blows/ft or gre	ater	Very Stiff	16 - 30 blows/ft
			Hard	31 blows/ft or greater
ABBREVIATIO	<u>NS</u>		ROCK QUALIT	ΓΥ DESIGNATION (RQD)
Dn Proum	Wh - White	WOH - Weight of hammer	ROD (%)	Description

ADDICEVIATION	<u> </u>	
Bn - Brown	Wh - White	WOH - Weight of hammer
Tn - Tan	Blk - Black	WOR - Weight of rods
Or - Orange	Gy - Gray	R - Sample recovery (inches)
Yl - Yellow	Lt - Light	NR - No recovery
Rd - Red	Dk - Dark	Misc - Miscellaneous
Gn - Green	Multi - Multi-color	ed

RQD (%)	<u>Description</u>
0 - 25	Very poor
26 - 50	Poor
51 - 75	Fair
76 - 90	Good
91 - 100	Excellent

(RQD: total length of pieces > 4" per attempted run length)



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FIELD TEST BORING LOG

CLIENT Polistina & Associates, LLC

DATE 2/25/2019

PROJECT Proposed Pump Station - 650 East Moss Mill Road - Absecon, NJ

CTL No. 918006 / 190050

POPING NO P4 Shoot 1 of 2

FI FV 25.5'+

		1	Sheet 1 of 2		ELEV. 25.5'±	
		ınd Wateı			ethod of Advancing Boring	Depth
epth)	Hour	Date	Hrs. Af Complet	ter C	nuous Split Spoon Rotary	0' to 10' 10' to 37'
7'6"	8:55am	2/25/2019	0	LIOII	Rotary	to
/ U	10.554111	Sample		"		
epth⊢	No.		Blows	Strati	Soil Classification	Remarks
0	INO.	Depth	DIOWS			1" topsoil
0]				-	Poorly graded SAND w/silt (SP-SM) / bn, medium	R=8"
1	S-1	0'-2'	3-6-6-4	_	dense, moist	
					Poorly graded SAND w/silt (SP-SM) / tn, loose, moist	R=20", trace
1	S-2	2'-4'	5-5-4-3	_	Poonly graded SAND W/siit (SP-Sivi) / til, loose, moist	graver
Ť	1 2			-		R=18", mottles
5 –		41.01	4000	_	Poorly graded SAND w/silt (SP-SM) / tn, loose, moist	
+	S-3	4'-6'	4-3-3-3	-		R=18", mottles
-				-	Poorly graded SAND (SP) / tn, medium dense, moist to	
1	S-4	6'-8'	3-4-8-9	_	wet	D=24"
				_	Poorly graded SAND w/gravel (SP) / tn, or, medium	R=24"
.]	S-5	8'-10'	11-10-15-13		dense, wet	
10 +				_		R=8"
-		10'-12'	0.40.44.40	-	Poorly graded SAND w/gravel (SP) / tn, dense, wet	
+	S-6	10-12	9-18-14-13	-		
15 -	S-7	15'-17'	6-9-12-14	- - -	Poorly graded SAND w/clay (SP-SC) / tn, medium dense, wet	R=12"
20 -	S-8A	20'-21'6"	8-11-17	_	Poorly graded SAND (SP) / It gy, medium dense, wet	R=12"
	S-8B	21'6"-22'	16	-	Poorly graded SAND w/clay (SP-SC) / tn, lt gy, dense, wet	
25 -	S-9	25'-27'	9-12-16-14		Poorly graded SAND w/clay (SP-SC) / tn, medium dense, wet	R=12"
30 -	S-10	30'-32'	6-7-10-13	-	CLAY (CL) / tn, very stiff, wet	R=20"

☐ S - 2" O.D. Split Spoon Sample	■ U - Undisturbed Sample, 3" Diameter	□ Core Drilling	☐ - No Recovery
Blows - Standard Penetration Resista	ance per 6" Inspector K. He	rman Di	riller T. Ward



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FIELD TEST BORING LOG

~ 1 7114	G NO. B-		Sheet 2 of 2		CILINO.	918006 / 190050
epth -	1	Sample		Stratum	Soil Classification	Remarks
ори	No.	Depth	Blows			
-				-		
35	_			_		R=18"
-				-	CLAY (CH) / tn, very stiff, wet	110
-	S-11	35'-37'	5-7-10-10		Test Boring Completed @ 37'	
-				-	rest boning completed & or	
-				-		
40 -				_		
-				-		
-				-		
-				-		
-				-		
45 -				_		
-				_		
-				-		
-				-		
-				-		
50 -				_		
-				-		
-				-		
-				-		
-				-		
55 –				_		
-				=		
-				_		
-				-		
-				-		
60 –				_		
+				_		
-				=		
-				=		
-				-		
65 –				_		
-				_		
-				_		
-				=		
-				-		
70 –				_		
-				-		
-				_		
S - 2	" O.D. Snli	it Spoon S	ample =	U - Undisturh	led Sample, 3" Diameter ⊠ - Core Drilling	☐ - No Recovery
2	J.D. Opi	Penetratio 0" drop)				