

Site Location Plan

JSC # 11-056

FDR Campus, Rt 9A
Montrose, NY

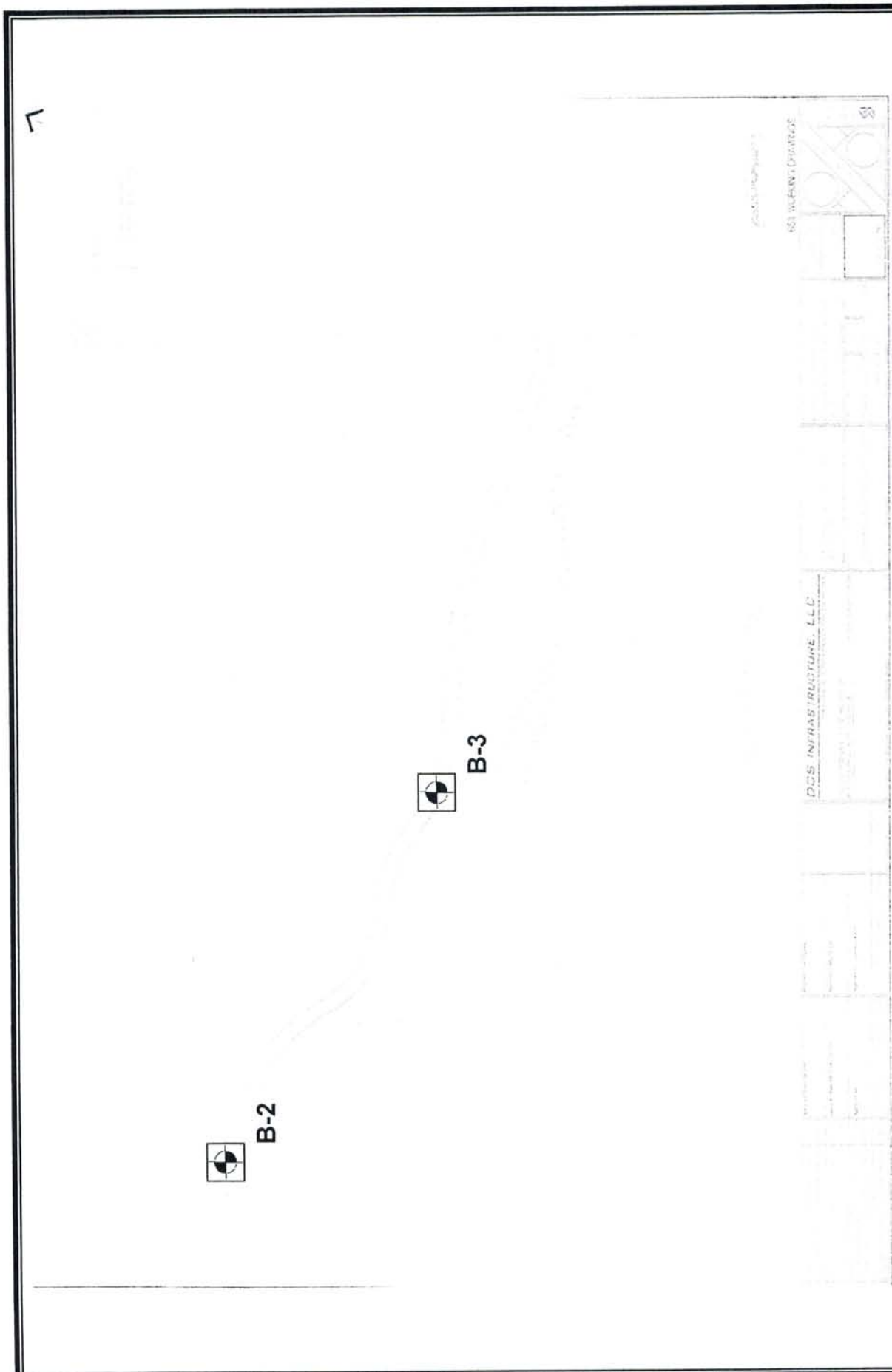
PLATE 1


Boring Location Plan

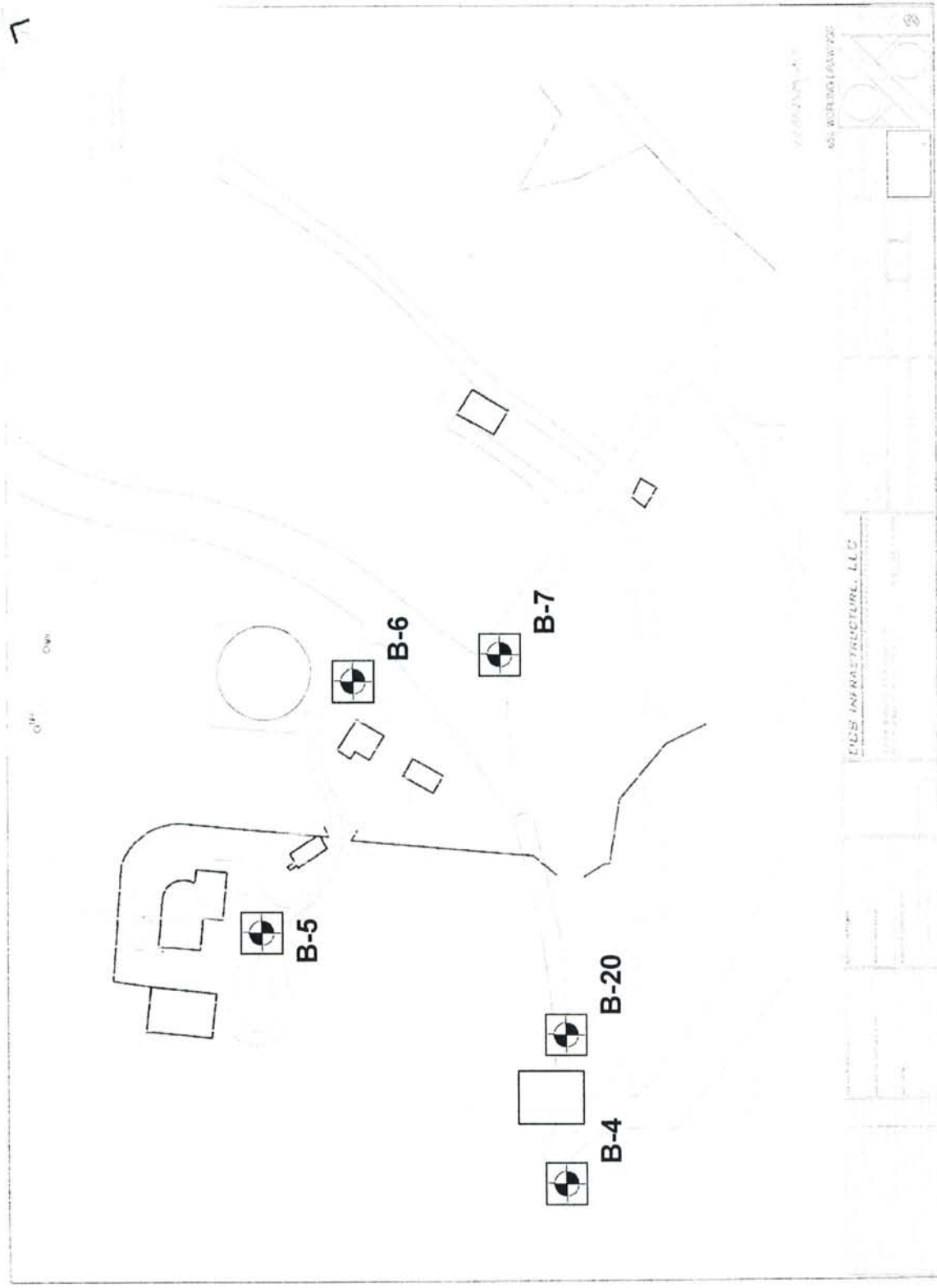
JSC # 11-056

Montrose, NY

PLATE 2A



	Boring Location Plan	JSC # 11-056
	Montrose, NY	PLATE 2B

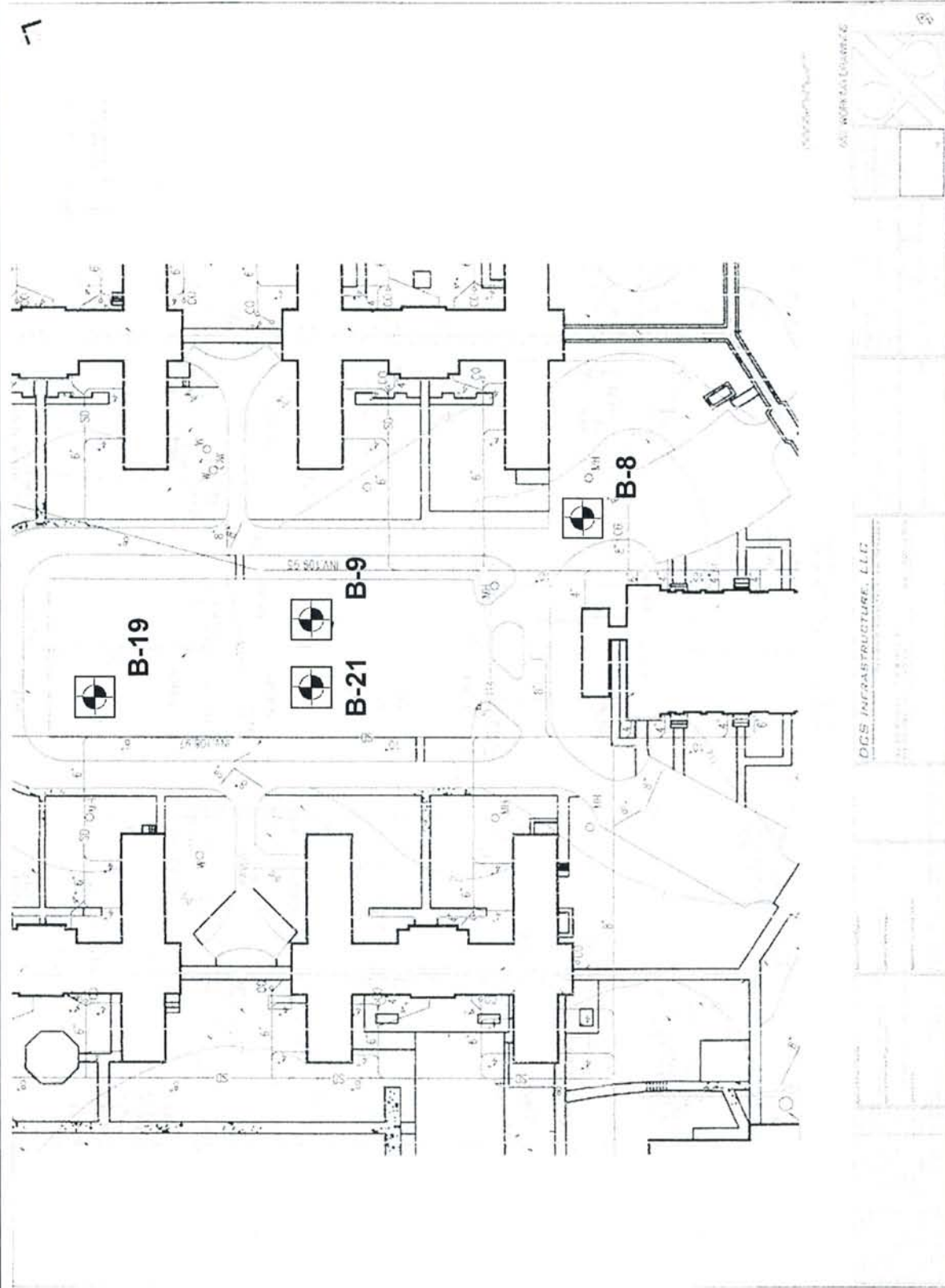


Boring Location Plan

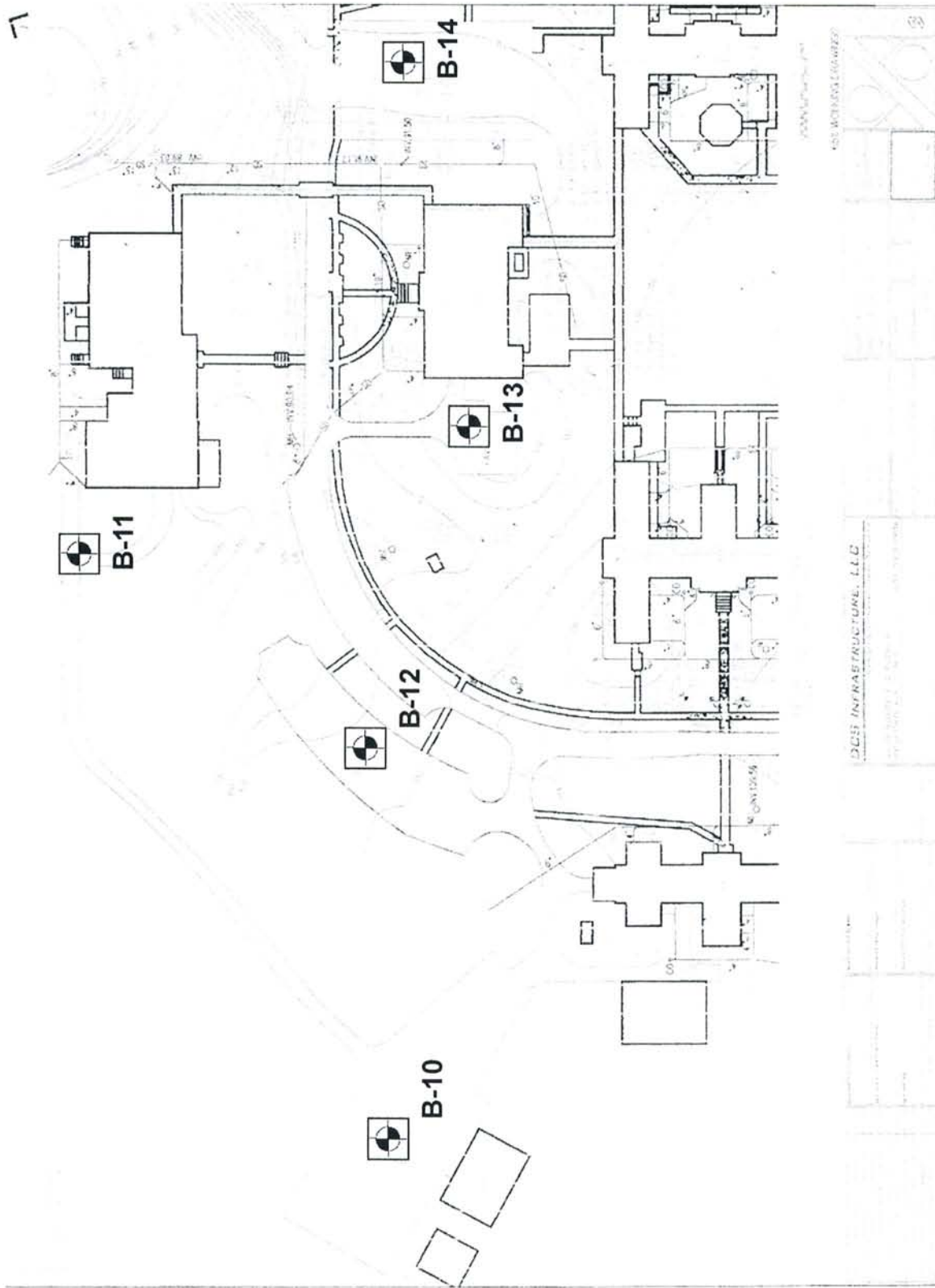
Montrose, NY

JSC # 11-056

PLATE 2C



JSC # 11-056	Boring Location Plan	
PLATE 2D	Montrose, NY	

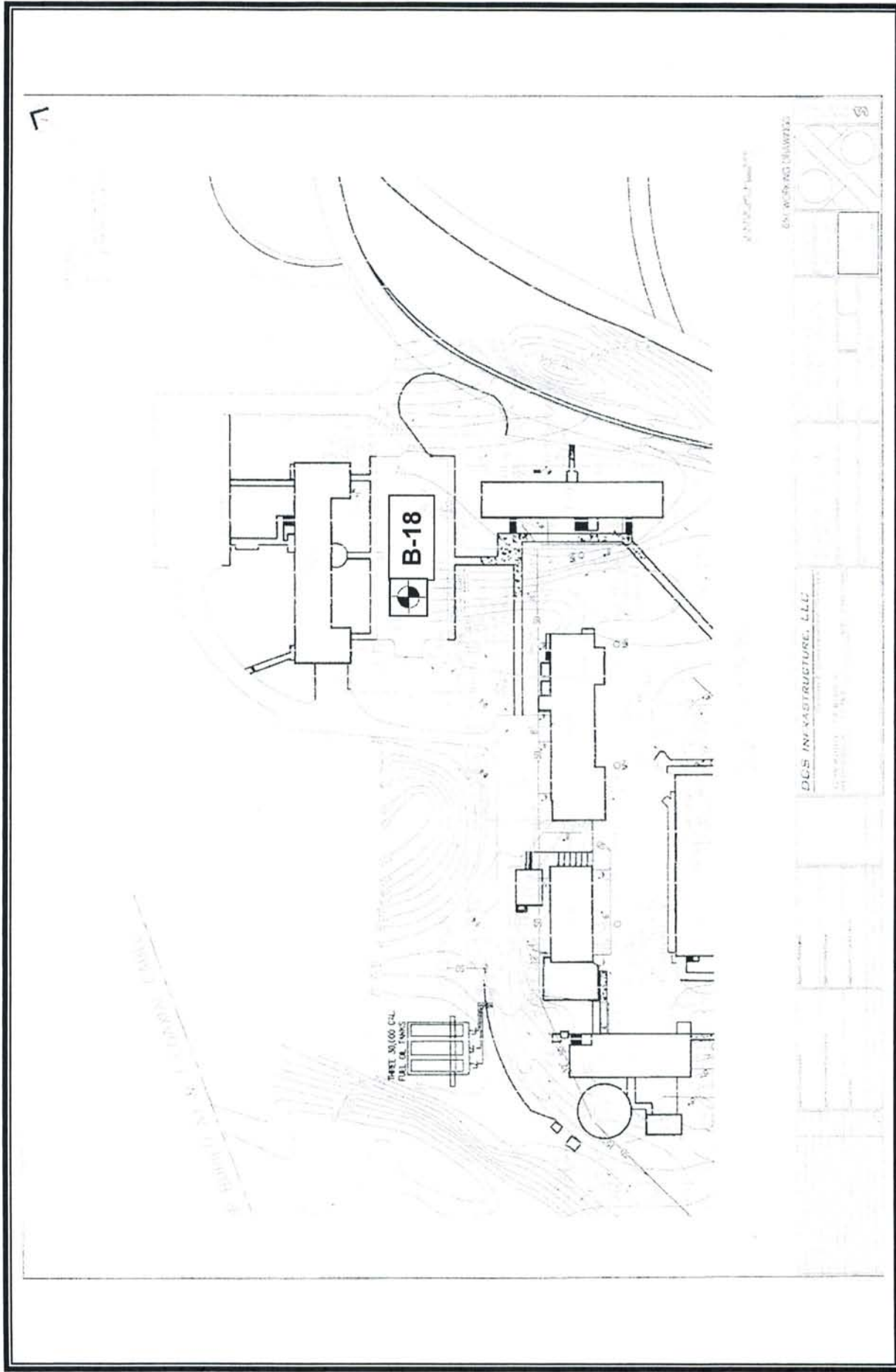


Boring Location Plan

Montrose, NY

JSC # 11-056

PLATE 2E

	<p>Boring Location Plan</p>	<p>JSC # 11-056</p> <p>PLATE 2G</p>
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LOG OF BORING B-1

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-29-11
Ground Surface El: NA
Depth to Ground Water: 6'

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	-6-7-8		0-4.5" Asphalt
-					4.5"-5.5" Crushed stone with Dust.
-	S-2	2-4	6-4-3-3		5.5"-3' Fill - Sand, Silt, Brick, Gravel
-					
-	S-3	4-6	2-2-3-2	ML	3-10' Gray brown Silt, some Clay, trace fine Sand (moist, soft)
5					
-	S-4	6-8	1-2-3-3		
-					
-	S-5	8-10	2-3-3-3		
-					
10					Boring 1 completed at 10' on 3/29/11
-					
-					
-					
-					
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15					
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20					
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-					
23					
-					
25					
-					
-					
-					
30					

Remarks:

Client: RV Driling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3A



LOG OF BORING B-2

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-29-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	3-7-9-9		0-3" Asphalt
-					3"-3' Fill - Sand, Silt, Brick, Gravel
-	S-2	2-4	6-5-4-3		
-					
-	S-3	4-6	2-3-2-2	SM	3'-7'10"" Brown fine to medium Sand, little Silt, trace fractured rock (moist, loose)
5					
-	S-4	6-8	1-1-3-100/4"		
-					
-					
10					Boring 2 completed at 7'10" on 3/29/11
-					
-					
-					
-					
15					
-					
-					
-					
20					
-					
-					
23					
-					
25					
-					
-					
-					
30					

Remarks:

Client: RV Driling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3B



LOG OF BORING B-6

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-29-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	-1/5"-1-3		0-3" Asphalt 3"-7" Gravel
-					7"-2' Fill - Sand, Silt, Cinders
-	S-2	2-4	3-3-4-5	CL	2'-6' Gray Clay, little Silt, trace fine Sand (moist, soft)
-					
-	S-3	4-6	4-4-4-5		
5					
-	S-4	6-8	5-7-8-8	ML	6'-10' Gray brown Silt, trace fine Sand (moist, medium stiff)
-					
-	S-5	8-10	6-7-9-8		
10					Boring 6 complete at 10' on 3/29/11
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25					
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30					

Remarks:

Client: RV Driling Company	<input checked="" type="checkbox"/> Hollow Stem Auger
Project: FDR Campus Rt. 9A	<input type="checkbox"/> Mud Rotary
Location: Montrose	<input type="checkbox"/> Air Rotary
Driller: R.V.D	



LOG OF BORING B-7

Sheet: 1 of 1
 Project Number : 11-056
 Date Completed: 3-29-11
 Ground Surface El: NA
 Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	-18-6-6		0-3" Asphalt 3"-5" Gravel
-					5"-6' Fill - Sand, Silt, Cinders
-	S-2	2-4	10-5-17-13		
-					
-	S-3	4-6	18-10-21-26		
5					
-	S-4	6-8	15-7-13-15	SM	6'-10' Brown fine to medium Sand, some Silt (moist, dense)
-					
-	S-5	8-10	10-14-15-23		
-					
10					Boring 7 complete at 10' on 3/29/11
-					
-					
-					
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15					
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20					
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23					
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25					
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-					
-					
30					

Remarks:

Client: RV Driling Company
 Project: FDR Campus Rt. 9A
 Location: Montrose
 Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3G



LOG OF BORING B-8

Sheet: 1 of 1
 Project Number : 11-056
 Date Completed: 3-30-11
 Ground Surface El: NA
 Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	3/3"-10-8		0-4" Asphalt
-					4"-1' FILL - Sand, Silt, Gravel
-	S-2	2-4	7-14-16-100/1"	SM	1'-3'6" Brown fine to medium Sand, little Silt & Gravel (moist, dense)
-					3'6"-3'7" Decomposed Rock
-					
5					
-					
-					
-					
10					
-					
-					
-					
15					
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-					
20					
-					
-					
23					
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25					
-					
-					
-					
30					

Boring 8 refusal at 3'7"on 3/30/11

Remarks:

Client: RV Driling Company
 Project: FDR Campus Rt. 9A
 Location: Montrose
 Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3H



LOG OF BORING B-9

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-30-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	2-3-100/2"		0-4" Asphalt
-				SM	4"-6" Gravel
-					6"-1'8" Gray fine to medium Sand, little Silt
-					Boring 9 refusal at 1'8" on 3/30/11
-					
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5					
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-					
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10					
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15					
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20					
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23					
-					
25					
-					
-					
-					
-					
30					

Remarks:

Client: RV Driling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3I



LOG OF BORING B-10

Sheet: 1 of 1
 Project Number : 11-056
 Date Completed: 3-30-11
 Ground Surface El: NA
 Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	-6-58-18	SM	0-4" Asphalt 4"-1' FILL - Sand, Silt, Gravel
-					1'-4' Gray brown fine to medium Sand, little Silt, & Gravel (moist, medium dense)
-	S-2	2-4	34-11-8-8	SP	4'-10' Gray fine to medium Sand, some Gravels, trace Silt (moist, loose)
-					
-	S-3	4-6	5-4-4-2		
5					
-	S-4	6-8	3-6-5-2		
-					
-	S-5	8-10	4-5-3-7		
10					Boring 10 completion at 10' on 3/30/11
-					
-					
-					
-					
-					
15					
-					
-					
-					
-					
20					
-					
-					
23					
-					
25					
-					
-					
-					
30					

Remarks:

Client: RV Driling Company
 Project: FDR Campus Rt. 9A
 Location: Montrose
 Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3J



LOG OF BORING B-11

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-30-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	-6-13-15	SM	0-5" Asphalt 5"-1' FILL - Sand, Silt, Gravel
-					1'-7' Gray brown fine to medium Sand, little Silt, & Gravel (moist, medium dense)
-	S-2	2-4	13-7-7-6		
-					
-	S-3	4-6	4-3-3-4	SM	- grading to loose @ 4'
5					- grading to medium dense @ 6'
-	S-4	6-8	6-6-5-6		7'-10' Brown fine to medium Sand, little Silt
-					(moist, loose)
-	S-5	8-10	5-4-3-3		
10					Boring 11 completion at 10' on 3/30/11
-					
-					
-					
-					
-					
15					
-					
-					
-					
-					
20					
-					
-					
23					
-					
25					
-					
-					
-					
30					

Remarks:

Client: RV Driling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3K



LOG OF BORING B-12

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-29-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	-1/3"-4-5	SM	0-3" Asphalt 3"-6" Gravel
-					6"-3'7" Brown fine to medium Sand, little Silt & Gravel (moist, medium dense) - grading to very dense @ 3'
-	S-2	2-4	6-7-34-100/1"		Boring 12 complete at 3'7" on 3/29/11
-					
5					
-					
-					
-					
-					
10					
-					
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-					
-					
15					
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-					
-					
20					
-					
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23					
-					
25					
-					
-					
-					
-					
30					

Remarks:

Client: RV Driling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3L



LOG OF BORING B-13

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-30-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	2-3-10		0-4" Asphalt 4"-6" Gravel
-				SM	6"-3' Brown fine to medium Sand, little Silt (moist,very dense)
-	S-2	2-4	14-19-33-53		
-					
-	S-3	4-6	27-14-8-11		3'-10' Gray brown fine to medium Sand, some Gravel, little Silt (moist, dense)
5					- grading to loose @ 6'
-	S-4	6-8	2-2-4-11		
-					
-	S-5	8-10	21-46-31-27	SM	- grading to very dense @ 9'
-					
10					Boring 13 completion at 10' on 3/30/11
-					
-					
-					
-					
15					
-					
-					
-					
-					
20					
-					
-					
23					
-					
25					
-					
-					
-					
-					
30					

Remarks:

Client: RV Driling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3M



LOG OF BORING B-14

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-31-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	-5-4-4		0-2" Asphalt
-					2"-6" Gravel
-	S-2	2-4	20-100/5"	SP	6"-1' FILL - Sand, Brick, Silt, Gravel
-					1'-2'11" Gray brown fine to medium Sand, little fractured rock
-					Boring 14 refusal at 2'11" on 3/31/11
5					
-					
-					
-					
-					
10					
-					
-					
-					
-					
15					
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-					
20					
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23					
-					
25					
-					
-					
-					
-					
30					

Remarks:

Client: RV Driling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3N



LOG OF BORING B-15

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-31-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS		
0	S-1	0.5-2	-2-1-2		0-5.5" Asphalt	5.5"-6" Gravel
-					6"-2' Fill - Sand & Silt	
-	S-2	2-4	2-1-1-2	SM	2'-5'8" Brown fine to medium Sand, little Silt & Gravel (moist, loose)	
-						
5	S-3	4-6	1-2-6-100/2"		Boring 15 refusal at 5'8" on 3/31/11	
-						
-						
-						
-						
10						
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15						
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20						
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-						
23						
-						
25						
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-						
-						
30						

Remarks:

Client: RV Driling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 30



LOG OF BORING
B-16

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 4-1-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS		
0	S-1	0.5-2	--8-20		0-1" Asphalt	1"-1' Gravel
-					1'-1'6" FILL - Sand, Silt, Gravel	
-	S-2	2-4	21-100/4"		1'6"-4'2" Brown fine to medium Sand, little Silt & Gravel	
-						
5	S-3	4-6	100/2"		Boring 16 refusal at 4'2"" on 4/1/11	
-						
-						
-						
-						
10						
-						
-						
-						
-						
15						
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-						
-						
20						
-						
23						
-						
25						
-						
-						
-						
30						

Remarks:

Client: RV Driling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary



LOG OF BORING B-19

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-30-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	-3-6-17		0-5" Asphalt
-					5"-1' FILL - Sand, Silt, Gravel
-	S-2	2-4	31-100/4"	SM	1'-2'10" Gray brown fine to medium Sand, little Silt & Gravel (moist, dense)
-					
-					
5					
-					
-					
-					
-					
10					
-					
-					
-					
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15					
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20					
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23					
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25					
-					
-					
-					
30					

Boring 19 refusal at 2'10" on 3/30/11

Remarks:

Client: RV Drilling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3S



LOG OF BORING B-20

Sheet: 1 of 1
 Project Number : 11-056
 Date Completed: 3-29-11
 Ground Surface El: NA
 Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	2/5"-8-11		0-5" Asphalt
-					5"-7" Gravel
-	S-2	2-4	12-14-12-8		7"-1'6"" Fill - Sand, Silt, Brick, Gravel
-					1'6"-7'10" Brown fine to medium Sand, little Silt & Gravel (moist, dense)
-	S-3	4-6	5-5-22-55	SM	
5					
-	S-4	6-8	32-19-18-100/4"		
-					
-					
-					
10					
-					
-					
-					
-					
15					
-					
-					
-					
20					
-					
-					
23					
-					
25					
-					
-					
-					
30					

Remarks:

Client: RV Drilling Company Project: FDR Campus Rt. 9A Location: Montrose Driller: R.V.D	<input checked="" type="checkbox"/> Hollow Stem Auger <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Air Rotary
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LOG OF BORING B-21

Sheet: 1 of 1
Project Number : 11-056
Date Completed: 3-30-11
Ground Surface El: NA
Depth to Ground Water: Dry

Depth (Feet)	Sample No.	Depth (Feet)	Sample/Spoon Blows/6"	Symbol USCS	
0	S-1	0.5-2	-1-3-15		0-4" Asphalt 4"-6" Gravel
-				SM	6"-3' Brown fine to medium Sand, little Silt (moist, dense)
-	S-2	2-4	14-43-100/5.5"		3'-3'5.5" Decomposed Rock
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-					
5					
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-					
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10					
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-					
-					
15					
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-					
20					
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23					
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25					
-					
-					
-					
-					
30					

Remarks:

Client: RV Drilling Company
Project: FDR Campus Rt. 9A
Location: Montrose
Driller: R.V.D

☒ Hollow Stem Auger
☐ Mud Rotary
☐ Air Rotary

PLATE: 3U



66 Glen Avenue
Glen Rock, NJ 07452
Telephone: 201-943-1793
Fax: 201-943-0951
Email: johnsonsoils@gmail.com

UNIFIED SOIL CLASSIFICATION SYSTEM

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)	GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	SAND AND SANDY SOILS	CLEAN SAND (LITTLE OR NO FINES)	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	MORE THAN 50% OF COURSE FRACTION <u>RETAINED</u> ON NO. 4 SIEVE		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	MORE THAN 50% OF COURSE FRACTION <u>PASSING</u> NO. 4 SIEVE		SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT <u>LESS</u> THAN 50	SM	SILTY SANDS, SAND-SILT MIXTURES
		LIQUID LIMIT <u>GREATER</u> THAN 50	SC	CLAYEY SANDS, SAND-CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS <u>SMALLER</u> THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDS CLAYS, SILTY CLAYS, LEAN CLAYS
HIGHLY ORGANIC SOILS			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS.

GRADUATION*

% FINER BY WEIGHT	
TRACE.....	0% TO 10%
LITTLE.....	10% TO 20%
SOME.....	20% TO 35%
AND.....	35% TO 50%

* VALUES ARE FROM LABORATORY OR FIELD TEST DATA, WHERE APPLICABLE.

COMPACTNESS* SAND AND/OR GRAVEL

RELATIVE DENSITY	
LOOSE.....	0% TO 40%
MEDIUM DENSE.....	40% TO 70%
DENSE.....	70% TO 90%
VERY DENSE.....	90% TO 100%

CONSISTENCY* CLAY AND/OR SILT

RANGE OF SHEARING STRENGTH IN POUNDS PER SQUARE FOOT	
VERY SOFT.....	LESS THAN 250
SOFT.....	250 TO 500
MEDIUM.....	500 TO 1000
STIFF.....	1000 TO 2000
VERY STIFF.....	2000 TO 4000
HARD.....	GREATER THAN 4000