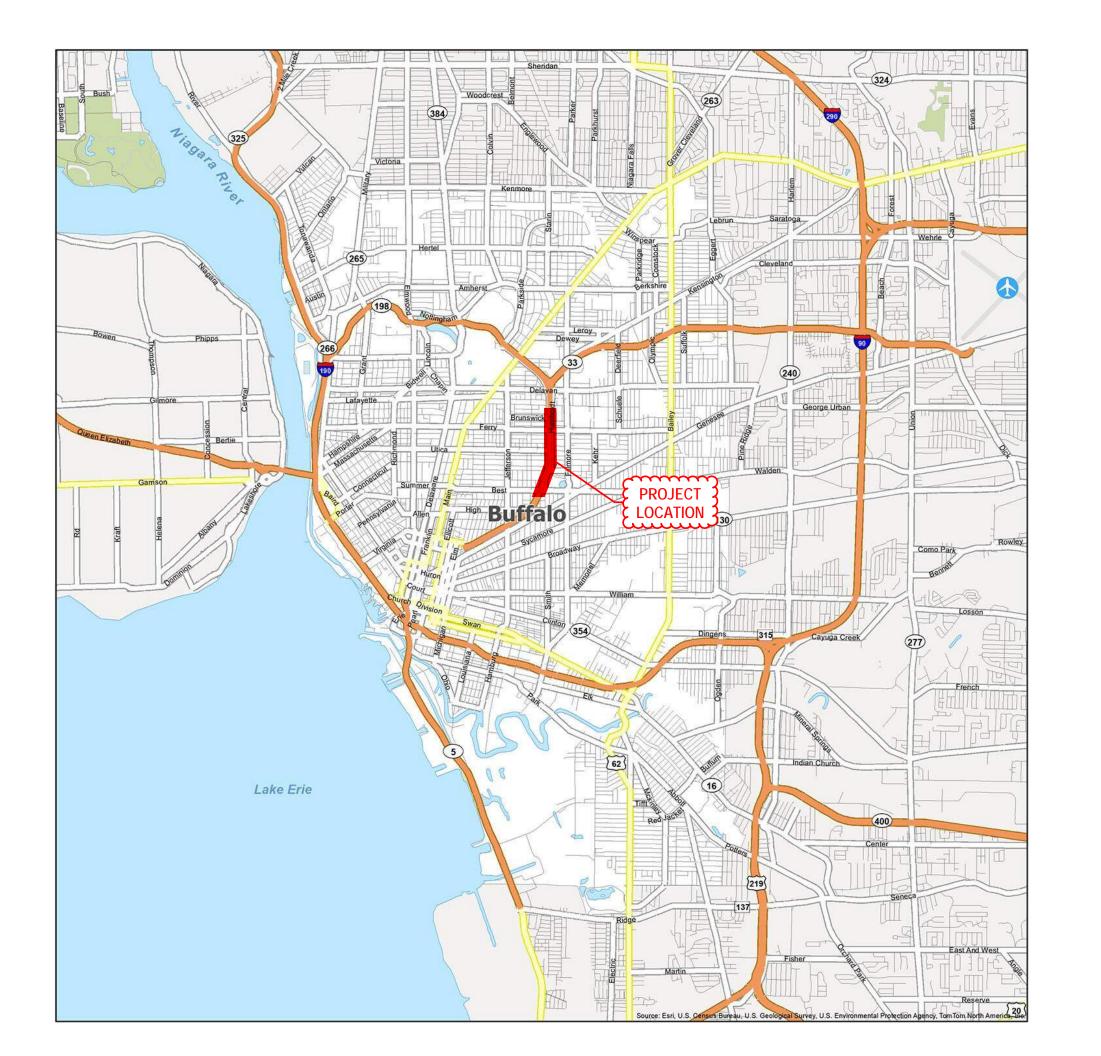
Appendix A2

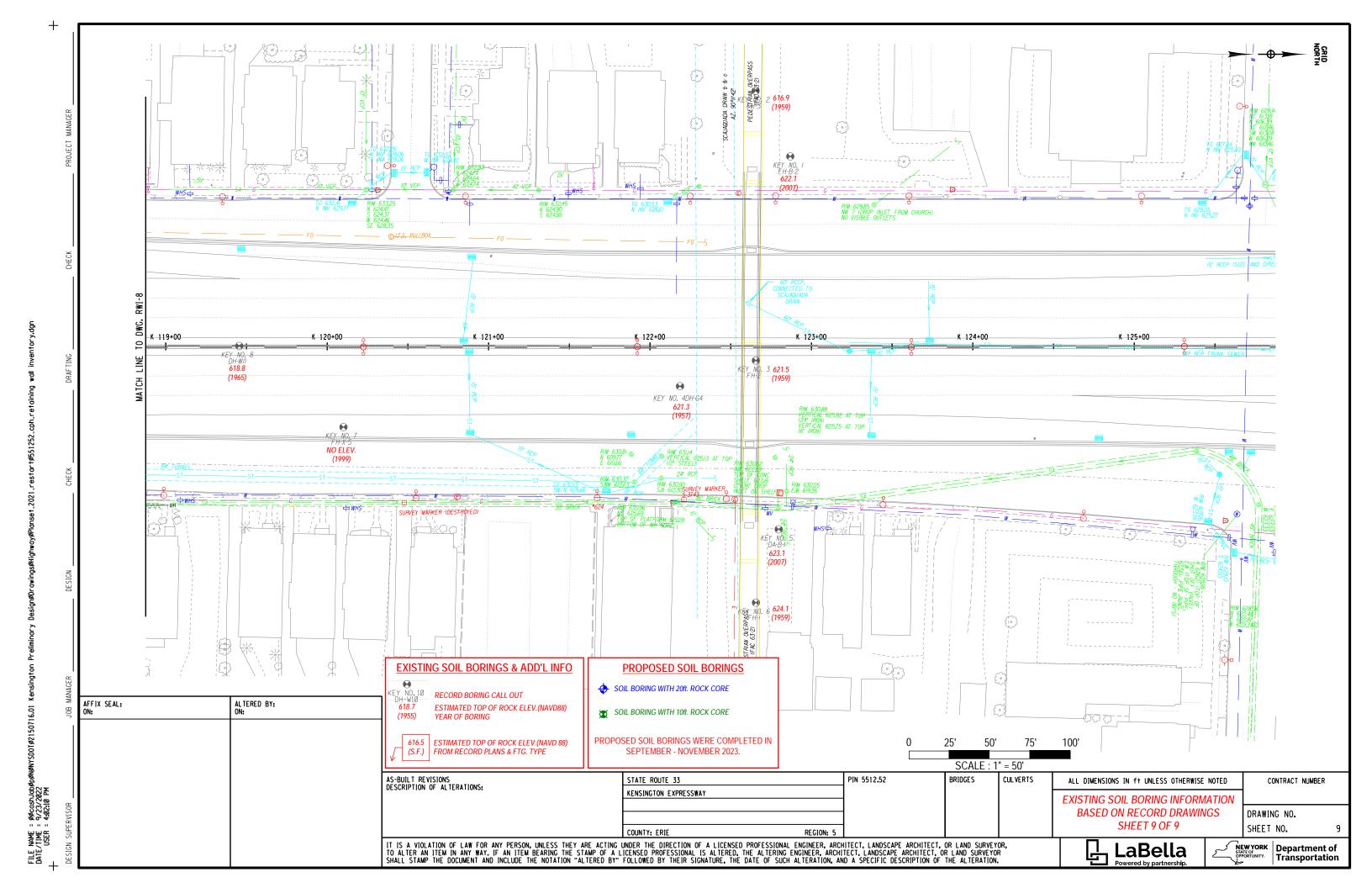
Soil Borings and Rock Core Report



PROJECT LOCATION MAP
Geotechnical Exploration and Sampling
PIN 5512.52 - Kensington Expressway,
NYS Route 33
City of Buffalo, Erie County

PIN 5512.52 - Kensington Expressway, NY Route 33 2023 Soil Borings

ВОБ	RING ID# & LOC	ATION	Actual State Pl	an Coordinates	Actual Top Surface Elevation	Elevation of Rock (NAVD88)
ID	STA (proposed)	OFFSET	Northing (y)	Easting (x)	(NAVD88)	(actual)
FH-W-01	072 + 50	65' LT.	1058497.563	1078056.495	626.69	-
FH-W-01a	072 + 50	65' LT.	1058505.934	1078041.085	628.91	620.2
FH-W-02	072 + 50	65' RT.	1058452.166	1078160.722	623.66	616.4
FH-W-03	074 + 70	85' LT.	1058714.596	1078115.799	648.96	620.5
FH-W-04	077 + 10	90' RT.	1058852.495	1078366.088	650.53	620.2
FH-W-05	077 + 25	95' LT.	1058955.703	1078210.601	652.12	•
FH-W-05a	077 + 25	95' LT.	1058945.170	1078223.615	652.05	621.1
FH-W-06	078 + 40	105' RT.	1058992.089	1078448.363	651.81	620.8
FH-X-07	079 + 50	0' RT.	1059121.828	1078361.956	633.40	617.6
FH-X-07e	079 + 50	0' RT.	1059135,296	1078367.357	633.40	•
FH-W-08	079 + 50	105' LT.	1059159.182	1078291,206	654.25	616.1
FH-W-09	079 + 95	95' RT.	1059118.194	1078471.709	653.28	621.3
FH-W-10	081 + 50	87' LT.	1059334.698	1078363.590	655.41	614.2
FH-W-11	081 + 50	80' RT.	1059290.370	1078525.337	655.36	616.6
FH-W-12	083 + 10	90' LT.	1059499.011	1078418.464	656.25	614.2
FH-W-13	084 + 50	125' RT.	1059596.447	1078669.832	656.44	610.3
FH-W-14	086 + 00	95' LT.	1059760.502	1078480.656	655.09	615.2
FH-W-15	087 + 50	95' LT.	1059902.792	1078504.105	654.68	614.9
FH-W-16	087 + 50	100' RT.	1059874.235	1078697.214	655.60	614.0
FH-W-17	089 + 10	95' LT.	1060056.636	1078520.768	653.71	616.2
FH-W-18	090 + 75	100' RT.	1060211.414	1078714.802	652.26	614.8
FH-W-19	092 + 10	95' LT.	1060346.931	1078525.563	648.08	619.1
FH-W-20	093 + 60	85' RT.	1060505.451	1078705.042	644.96	614.0
FH-W-21	095 + 00	90' LT.	1060638.840	1078531.760	641.71	615.7
FH-W-22	096 + 75	85' RT.	1060816.898	1078699.058	639.44	614.0
FH-X-23	098 + 25	0' RT.	1060938.227	1078607.086	620.30	614.3
FH-X-23e	098 + 25	0' RT.	1060966.652	1078607.709	620.30	-
FH-W-24	098 + 80	85' LT.	1061018.384	1078533.782	637.08	614.0
FH-W-25	100 + 80	85' RT.	1061227.388	1078699.657	637.07	615.1
FH-W-26	100 + 75	85' LT.	1061418.497	1078543.960	635.62	616.8
FH-X-27	102 + 73	0' RT.	1061470.322	1078608.463	617.60	-
FH-X-27e	103 + 50	0' RT.	1061501.665	1078608.560	617.60	611.6
FH-W-28	104 + 25	85' RT.	1061588.910	1078700.050	634.94	617.6
FH-W-29	105 + 75	85' LT.	1061700.947	1078538.368	634.61	609.0
FH-W-30	107 + 20	85' RT.	1061847.734	1078700.335	633.65	608.3
FH-W-31	110 + 10	85' LT.	1062152.330	1078536.941	634.22	617.0
FH-X-32	110 + 90	0' RT.	1062205.421	1078609.128	618.30	615.8
FH-X-32e	110 + 90	0' RT.	1062219.634	1078609.172	618.30	-
FH-W-33	110 + 90	85' RT.	1062327.525	1078708.243	633.25	-
FH-W-33a	111 + 75	85' RT.	1062327.525	1078735.640	633.23	616.9
FH-X-34	113 + 25	0' RT.	1062447.049	1078610.143	625.14	- 010.3
FH-X-34e	113 + 25	0' RT.	1062464.541	1078610.733	625.14	618.8
FH-W-35	113 + 25	85' LT.	1062567.988	1078546.446	634.95	620.5
FH-X-36	085 + 41.5	140' LT.	1059713.082	1078426.174	655.81	615.4
FH-X-37	089 + 81.5	140 LT. 143' LT.	1060123.374	1078477.014	652.78	616.6
FH-W-38	003 + 01.3	145 L1.	1059119.951	1078471.879	653.46	
						-
FH-W-39]		1059287.106	1078525.542	655.29	-



SM 282 PSN REGI	NTY E			ORN	UM _	28		DEPARTN GEOTECHN	MENT OF T	NEW YORK FRANSPORT GINEERING E PLORATIO	BUREAU		HOLE LINE STA OFFSET	FH-W-01A	
PRO.	JECT N	Y RT	33, K					UNNEL SEC					SURF. ELEV	628.91	
ACT	JAL COC	ORDIN	ATES	<u> </u>	۷) 1,(DAT I			(E) 1,078, 23-OCT-20		_ DATUM DATE F		33 23-OC		NATER SE	E NOTE
CASII			5/8 ir		1. 0) . 3	3 1/4 i	in WT OF	HAMMER-	CASING	_	lb	HAMMER FAL		in
	PLER O. I) . 2	ir	1	1. [) . 1	3/8	in WT OF	HAMMER-	SAMPLER	140	lb	HAMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S 0	AMP	/	in 18	MOIST. CONT. (%)			DESC	RIPTIO	N OF SOI	L AND ROCK		
	0.0	J1	2		/ 18	24	9.4%	(0.00)	Dark Br	own Silty G	RAVEL,	Sandy V	Vith Organics		(D-LW)
				6	15										
						20									
		J2	5				17.4%	(3.50)	Red-Bro	wn Silty CL	AY . Wit	h Pieces	Of Gravel		(M-PL)
		-		5	6			(0.00)			, ,				(/
	5.0				0	7									
							L								
		R1						(8.70)		Drilled from 0" 100%			OCK		
	10.0								NQ DOI	JBLE TUBE	E, SWIVE	EL "WIRE	ELINE"		
		R2						(13.70)		Drilled from 50" 100%			ROCK		
	15.0									JBLE TUBE			ELINE"		
		R3						(18.70)		Drilled from 50" 100%			ROCK		
	20.0									JBLE TUBE			ELINE"		
		R4					T	(23.70)		Drilled from			ROCK		
	25.0									JBLE TUBE			ELINE"		
								ained for desi	- 1	DRILL RIG			Al Linstru		
								hat users ma State. It is	y have	SOIL & RO			N <u>Larry Muh</u>	nammad Sr.	
								oloration proc of the total vol		ENGINEE	R Tod	d E. Nels			
of th		l at the	e site.	Inte	rpolat	ion b	etween	data sample:		DATE APP RESIDENT			<u>/-2023</u>		
riOt l	oe marcati	ve oi i	ne ac	iual l	nater	aı en	counter	c u.		STRUCTUR				B.I.N	
CON	NTRACT		(CONT	ΓRAC	TOR	C	ME Associat	tes	SHEET 1	OF 2		НО	LE FH-W	/-01A

SM 282 E 12 PSN	2/02 1 24 7	72	ВС	ORNU	JM _	28		D	EPAR				YORK NSPORT	TATION			НО	LE _	FH-W-	01A		
REGION	5													BUREAU			LII	NE				
COUNTY	/ E	RIE					_	SL	JBSU	RFA	CE E	XPLC	PRATIC	N LOG		_	S	TA _				
PIN	55	512.52	2				_								_	- (OFFS	ET [_]	ft			
PROJEC	T N	Y RT :	33. K	ENSI	NGT	ON E	_ EXPY 1	UNN	IEL S	ECT	ION					SU	RF. E	LEV.	628.	91		
ACTUAL							05.930) 1,07				ATUM	NAD	83				ATER		E NOTE	
						E STA			OCT-				DATE F	INISH	23-OC	T-20	23					
CASING	0. [) . 6 !	5/8 ir		I. D	_	_	in			MMEF				lb			FALL	-CASING	3		in
SAMPLER			ir		I. D			in					IPLER	140	lb				-SAMPL		30	in
CASING BLOWS/ft DEPTH ft	BELOW	SAMPLE NO.	S	BLOW AMPI	LER i	in 18	MOIST. CONT. (%)						DES	CRIPTIC	N OF SO	IL AN	ND RC	OCK				
	5.0 — —																					

BOTTOM OF HOLE AT 28.70 ft

- 1. Relocated from FH-W-1 due to sewer hit.
- 2. Autohammer used for SPT at all sampling depths.
- 3. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
23-Oct-23	11:25	8.70	8.70	NONE		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 28-NOV-2023
RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.
SHEET 2 OF 2 HOLE FH-W-01A

Al Linstruth

DRILL RIG OPERATOR

CONTRACT _____ CONTRACTOR __ CME Associates

PSN PSN REGI COUI	ON 5		В	ORNI	JM _	29	_		NICAL ENGI	RANSPORT INEERING I	BUREAU			HOLE LINE STA	FH-W-1				_
PIN	5	512.52	2										_ O	FFSET	ft				
PRO.	JECT N	Y RT	33, K	ENS	INGT	ON I	EXPY T	TUNNEL SE	CTION				SUR	F. ELEV	626.6	9			
ACT	JAL COC	ORDIN	ATES	1)_ 6	N) 1,(058,4	97.560	(E) 1,078,	056.500	DATUM	NAD8	3	DEP	гн то и	VATER	NO	NE		_
					DAT	E ST	ART _	14-SEP-20	23	DATE F	INISH _	14-SEF	P-2023	<u> </u>					
CASIN	IG 0. [D . 6 5	5/8 ir	า	1. 0) . 3	1/4 i	in WT OF	HAMMER-C	CASING		lb	HAMI	MER FAL	L-CASING	i		i	n
SAMP	LER O.	D . 2	ir	า	1. 0) . 1	3/8 i	in WT OF	HAMMER-S	AMPLER	140	lb	HAMI	VIER FAL	L-SAMPLI	ER.	30	i	n
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 6	BLOV AMP	LER 12	in 18 24						N OF SOI		ROCK					
	0.0 	J1	5	13	13	29	10.9%	(0.00)	Red-Brov	wn Fine Sa	andy SIL ⁻	Γ , Grave	elly 				(1)	M-NPL	_
		J2	9				6.4%	(3.00)	Red-Brov	wn Fine Sa	ndy SIL	Γ , Grave	lly				1)	M-NPL	.)
!				50		-			BOTTOM	OF HOLE	E AT 3.7	0 ft							_

- Autohammer used for SPT at all sampling depths.
 Bore hole backfilled with spoils upon completion.
 Progressed 3" with 50 blows 3.5'
 Encountered unmarked systems at 3.7'; hole abandoned.

- 5. Please see FH-W-1a for relocated boring.

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SOIL & ROCK DESCRIPTION Larr	y Muhammad Sr.
REG GEOTECHNICAL	
ENGINEER Todd E. Nelson	
DATE APPROVED <u>28-NOV-2023</u>	
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N.
SHEET 1 OF 1	HOLE FH-W-1

Al Linstruth

DRILL RIG OPERATOR

PSN REGI COU	NTY E	RIE	-	ORNI	UM _	24		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	BUREAU		LINE	FH-W-2	
PIN PRO.		512.52 Y RT		FNS	INGT	ON I	_ FXPY T	UNNEL SECTION				OFFSET SURF. ELEV		
								(E) 1,078,160.720	DATUM	NAD8			VATER SE	E NOTE
CACII	NC 0.1		E/O :.		DAT		_	19-SEP-2023	DATE F	INISH _	19-SEP-2		LCACING	i.e.
CASI	NG O. [PLER O. [5/8 ir ir		1. E). 3). 1		n WT OF HAMMER n WT OF HAMMER		140		IAMMER FAL IAMMER FAL		in 30 in
E	ш _ بي		F	BI OV	VS O	N								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	LER 12	in 18	MOIST. CONT. (%)		DESC	RIPTION	OF SOIL	AND ROCK		
	0.0	J1	3	5				(0.00) Red-Bro	own Silty CL	AY , San	dy With G	ravel		(M-PL)
				5	8									
						7								
		J2	3				<u> </u>	(3.50) Red-Bro	Silty Cl	AV Con	dv With C			
		J2	3	3				(3.50) Red-Br	own Silly CL	.Ar, San	ay with G	ravei		(M-PL)
	5.0				3	6								
						0								
		R1					L	(7.30)Run_#1	Drillod from	7'/I" To	107/F DO			
		KI						` ′ REC.	60" 100%	8 Piece	s			
								NQ DO	UBLE TUBE	, SWIVE	L "WIREL	INE"		
	10.0													
	10.0													
		R2					 					OCK		
									60" 100% UBLE TUBE			INF"		
									0022	-, •	· L ••••			
	15.0													
							L							
		R3						(17.30) Run #3 RFC	Drilled from 60" 100%			OCK		
									UBLE TUBE			INE"		
	20.0													
		R4					 		Drilled from	22'4" To	27'4" RC	OCK		
		1						` REC.	58" 96.7%	8 Piece	es			
								NQ DO	UBLE TUBE	:, SWIVE	L WIREL	IINE"		
	25.0													
			<u> </u>				L							
								ained for design hat users may have	DRILL RIG			A. Linstrut Larry Muh	<u>th/B. Fletcher</u> iammad Sr	·
acce	ess to the	same .	inforn	natior	n avai	ilable	to the S	State. It is	REG GEOT	ECHNIC	AL			
the i	informatio	n repre	esent	s only	a sn	nall fr	action c	loration process, f the total volume	ENGINEE DATE APP		I E. Nelsor		VISION # 2	
	ne materia be indicati							data samples may ed	RESIDENT			. <u>023</u> KE	VISION # 2	
7,00	oo maroad	10 0, 1	,,,,	tuur 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.a. 0,,	ioounioi	ou.	STRUCTUE	RE NAME			B.I.N	
CON	NTRACT		(CONT	TRAC	TOR	C	ME Associates	SHEET 1	OF 2		НО	LE FH-W	<i>I</i> -2

PSN	-		В	ORNI	JM _	24	_		STATE OF N DEPARTMENT OF TI EOTECHNICAL ENG	RANSPORT				FH-W-	2		
REGI	ON _5)					_						LINE				
COU	NTY E	RIE						S	SUBSURFACE EXF	LORATIO	N LOG	=	STA				
PIN	5	512.52	2									-	OFFSET	ft			
PRO.	JECT N	IY RT	33, K	ENS	INGT	ON E	_ EXPY T	UN	INEL SECTION				SURF. ELEV	623.0	66		
ACTL	JAL CO	ORDIN	ATES	1) 6	N) 1,0	58,4	52.170	(E	E) 1,078,160.720	DATUM	NAD8	3	DEPTH TO V	VATER	SEI	E NOTE	
					DATI				9-SEP-2023	DATE F		19-SEP	2-2023				
CASIN	NG O.	D . 6	5/8 i ı	1	I. D). 3	1/4 i	in	WT OF HAMMER-C	CASING		lb	HAMMER FAL	L-CASING	}		in
SAMP	LER O.	D . 2	iı	ı	I. D). 1	3/8 i	in	WT OF HAMMER-S	SAMPLER	140	lb	HAMMER FAL	L-SAMPL	ER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	≥ ₩ ₩ BLOWS ON								DESC	CRIPTION	N OF SOII	L AND ROCK				
	25.0		6	<u>/ 12</u>	∕ 18	/ 24											
-																	

BOTTOM OF HOLE AT 27.30 ft

- 1. Autohammer used for SPT at all sampling depths.
- 2. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIL	HOLE	CASING	WATER		END OF DAY
15-Sep-23	13:30	27.30	7.30	20.00		NO

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SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 28-NOV-2023 REVISION # 2
RESIDENT ENGINEER
STRUCTURE NAME B.I.N.
SHEET 2 OF 2 HOLE FH-W-2

A. Linstruth/B. Fletcher

DRILL RIG OPERATOR

CONTRACT _____ CONTRACTOR ___ CME Associates

SM 282 PSN REGI			. В	ORN	UM _	3		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	BUREAU		LINE	FH-W-3	
PIN		512.52		LVIC	·NGT		 VDV T	UNNEL SECTION				OFFSET URF. ELEV	ft 648.06	
								(E) 1,078,115.800	DATUM	NAD8			. <u>648.96</u> /ATER <u>SE</u>	E NOTE
					DATE	E ST	art _	25-SEP-2023	DATE F	INISH _	25-SEP-2			
CASII SAMF	NG O. [PLER O. [5/8 ir ir		I. D			in WT OF HAMMER in WT OF HAMMER		140		AMMER FAL AMMER FAL		in 30 in
~ ₹	# / !!	ш	E	BLOV	VS OI	N								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		AMP	LER i		MOIST. CONT. (%)		DESC	RIPTION	OF SOIL	AND ROCK		
	0.0	J1	3	9				(0.00) Brown	Sandy SILT	, Organic	With Crus	hed Concre	ete	(D-NW)
	<u> </u>			Э	8									
		J2	11					(3.50)	Gravelly SAI	ND , With	Crushed (Concrete Ar	nd Slag	(M-NPL)
	 5.0	,		12	30			()	· · · · · ·	,			· · · · · · · · · · · · · · · · · · ·	
	5.0				30									
		10	44				L				-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
		J3	44	50				(8.50) Gray-B	rown Graveii	IY SAND	, with Crus	snea Concre	ete And Slag	(M-NPL)
	10.0													
		J4	7	15				(13.50) Red-Br	own Silty CL	AY , Gra	velly With	Sand		(M-PL)
	15.0			10	50									
		J5	2					(18.50) Red-Br	own CLAY,	Sandy				. — — <u>— — — — — — — — — — — — — — — — —</u>
	20.0			1	2									
		J6	1				<u> </u>		own CI AY	Gravelly	With Sand			. – – (M-PL)
				2				(20.00)	····· • · · · ,	C				(/
	25.0				2									
								ained for design	DRILL RIG			B. Fletche		
acce	ess to the	same l	inforn	natioi	n avai	lable	to the S	hat users may have State. It is	SOIL & RO			Larry Muh	ammad Sr.	
								oloration process, of the total volume	ENGINEE	R Todo	I E. Nelson		WOLCH " 1	
of th		l at the	e site.	Inte	rpolat	ion b	etween	data samples may	DATE APP			<u>023</u> RE	VISION # 1	
HOLI	o c mulcali	ve UI l	iie ac	iuai I	ııal c i l	aı Cil	counter	cu.	STRUCTUE				B.I.N	
CON	NTRACT		(CONT	ΓRAC	TOR	C	ME Associates	SHEET 1	OF 3		НО	LE FH-W	·-3

PSN REG COU PIN PRO ACT	ION 5 INTY E 5 JECT N UAL COO	ERIE 512.52 IY RT ORDIN D. 6	2 33, KENS ATES _(N) 1,058, DATE S I. D.	EXPY 1 714.600 FART _ 3 1/4	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX UNNEL SECTION (E) 1,078,115.800 25-SEP-2023 in WT OF HAMMER	GINEERING B (PLORATION DATUM DATE FI -CASING	N LOG NAD83	25-SEP-	HAMMER FALL	ft _648.96 ATER _SE	in
CASING BLOWS/ft PA	DEPTH # BBELOW SURFACE O	SAMPLE ON		I. D. WS ON PLER in	1 3/8 MOIST. CONT. (%)	IN WT OF HAMMER		140		AND ROCK	-SAMPLER	30 in
	35.0	R1	6 12	2 18 2	4	NQ DO NQ DO (33.50) Run #2 REC.	60" 100% UBLE TUBE	13 Pieces ; SWIVEI 33'6" To 9 Pieces	es L "WIRE 38'6" R	LINE"		
	40.0	R3				NQ DO	60" 100% UBLE TUBE	10 Piece , SWIVEI	es L "WIRE	LINE"		
	45.0	R4					Drilled from 60" 100% UBLE TUBE	8 Pieces	3			
	I	I	1. Autoba	mmer use	ed for SF	L BOTTC PT at all sampling dep	OM OF HOLE	AT 48.50	0 ft			
and acc pres the of th	estimate ess to the sented in information he materia	ce info purpos same good fa on repre	rmation sh ses. It is n informatio aith. By th esents onle site. Inte	nown here nade avail n availabl e nature d y a small i	was obta lable so t e to the S of the exp fraction o	ained for design hat users may have State. It is oloration process, of the total volume data samples may	DRILL RIG SOIL & ROO REG GEOT ENGINEEI DATE APPE RESIDENT STRUCTUR	CK DESC ECHNICA R Todd ROVED : ENGINEE	RIPTION AL E. Nelso 28-NOV-	on -2023 REV	/ISION # 1	
СО	NTRACT		CON	TRACTO	RC	ME Associates	SHEET 2 (OF 3		HOL	E FH-W	'- 3

SM 282	E 12/02						STATE OF N	EW YORK						
PSN	124	72	BOF	RNUM	3	DEPAR'	TMENT OF TR	RANSPORT	ATION	_		FH-W-	3	
REGI	ON 5						HNICAL ENGI				LINE			
COU	NTY E	RIE				SUBSU	RFACE EXP	LORATIO	N LOG		STA			
PIN	5	512.52	2								OFFSET	ft		
PRO.	JECT _N	IY RT	33, KEI	NSINGTO	N EXPY T	UNNEL S	ECTION				SURF. ELEV.	. 648.9	96	
ACTU	JAL CO	ORDIN	ATES	(N) 1,058	3,714.600	(E) 1,07	8,115.800	DATUM	NAD8	3	DEPTH TO W	/ATER	SEE NOT	Ε
				DATE S	START _	25-SEP-2	2023	DATE FI	INISH _	25-SEP	-2023			
CASI	NG O.	D . 6	5/8 in	I. D.	3 1/4	in WTO	F HAMMER-C	ASING		lb	HAMMER FAL	L-CASING	3	in
SAMP	LER O.	D . 2	in	I. D.	1 3/8	in WTO	F HAMMER-S	AMPLER	140	lb	HAMMER FAL	L-SAMPL	.ER 30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	1	/ / /	MOIST. CONT. (%)			DESC	RIPTIOI	N OF SOIL	L AND ROCK			

- Sampler progressed 2" with 50 blows at 9'
 Sampler progressed 3" with 50 blows at 14.5'
 Auger refusal @ 28.5' below grade.
 Bore hole backfilled with spoils upon completion.

DATE	TIME	9,5 5 5 6.,	DEPTH ft		ARTESIAN	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER	HEAD HEIGHT ABOVE GROUND	END OF DAY
26-Sep-23	09:15	48.50	28.50	15.70		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL ENGINEER** Todd E. Nelson DATE APPROVED <u>28-NOV-2023</u> REVISION #1 RESIDENT ENGINEER STRUCTURE NAME B.I.N. HOLE FH-W-3 SHEET 3 OF 3

B. Fletcher

DRILL RIG OPERATOR

PSN REGI COUI PIN PRO	NTY E 59 JECT N JAL COC	RIE 512.52 Y RT)RDIN	2 33, K	ENS		ON I	 EXPY T 552.500 ART	DEPARTM GEOTECHN SUBSURF UNNEL SEC (E) 1,078,3 29-AUG-20	IENT OF IICAL EN FACE EX CTION 366.090 23	NEW YORK TRANSPORT GINEERING (PLORATIO DATUM DATE F -CASING	BUREAU ON LOG NAD8	3 I 30-AUG-	LINE STA OFFSET SURF. ELEV. DEPTH TO W	VATER SI	EE NOTE
	PLER O.		iı		i. C					-SAMPLER	140		HAMMER FAL		30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6	VS OI LER 12 18	in 18	MOIST. CONT. (%)			DES	CRIPTION	I OF SOIL	AND ROCK		
	0.0	J1	3	12	20		12.8%	(0.00)	Brown	Silty GRAVI	EL , With	Organics			(M-NPL)
	5.0	J2	19	REF			5.4%	(3.50)	Gray-B	rown Sandy	GRAVEL				(M-NPL)
	10.0	J3	10	6	5	7	9.6%	(8.50)	Brown S	Sandy GRA	VEL				(M-NPL)
	15.0 	J4	6	6	5	6	8.2%	— (13.50)	Brown	Sandy GRA	VEL				— (M-NPL)
	20.0	J5	4	5	6	11	17.2%	(18.50)	Brown	Silty CLAY,	Sandy				(M-PL)
	25.0	J6	8	9	8		17.4%	(23.50)	Brown	Clayey SILT	, Sandy			- — — — — -	(M-LPL)
and acce pres the i of th	estimate pess to the sented in granted in gr	ourpos same good fa n repre l at the	es. I inforn ith. I esent e site.	t is m nation By the s only Inte	nade a n avai e natu / a sm rpolat	availa lable ire of nall fr ion b	ble so to to the so the expression of etween	ained for designate users may state. It is soloration proces of the total voludata samples sed.	y have ess, ume	DRILL RIG SOIL & RC REG GEO ENGINEE DATE APF RESIDENT STRUCTU	DCK DESC TECHNICA ER Todo PROVED FENGINE	CRIPTION AL d E. Nelso 28-NOV-2 ER	n 2023 RE	wad Sr. VISION # 1 B.I.N.	
CON	NTRACT		(CONT	ΓRAC	TOR	C	ME Associat	es	SHEET 1	OF 3		HOI	LE FH-V	V-4

PSN REGI COU	ON 5	RIE		ORNI	UM _	2		DEPARTN GEOTECHN	MENT OF T	NEW YORK TRANSPORT GINEERING I (PLORATIC	BUREAU		LINE STA		
PIN		512.52 V RT		FNS	INGT	ONI	_ =XPV T	UNNEL SEC	CTION				OFFSET SURF. ELEV		
								(E) 1,078,	366.090					WATER _S	SEE NOTE
CACIA		•	r/0 :-				ART _			DATE F	INISH _	30-AUG		LLCACING	
CASIN	NG O.I PLER O.I		5/8 ir ir		1. L). 3). 1			HAMMER.	-CASING -SAMPLER	140		HAMMER FA	LL-CASING LL-SAMPLER	in 30 in
=	ш_ч		F	BLOV	VS O	N									
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	LER 12	in 18	MOIST. CONT. (%)			DESC	CRIPTION	N OF SOIL	_ AND ROCK	<	
	25.0					7									
		J7	2				24.1%	(28.50)	Grav Si	Ity CLAY , S					 (M-PL)
		37	_	3			24.170	(20.50)	Olay Ol	ity OLAT , C	diluy				(IVI-I L)
	30.0				3	REF									
		R1						(30.30)		Drilled from 60" 100%			OCK		
										UBLE TUBE			LINE"		
	35.0														
		R2						(35.30)	Run #2	Drilled from	35'4" T	o 40'4" R	ROCK		
								, ,		60" 100% UBLE TUBE			I INE"		
									NQ DO	OBEL TOBE	_, ٥٧٧١٧١		LIINL		
	40.0														
		R3						(40.30)		Drilled from 60" 100%			ROCK		
										UBLE TUBE			LINE"		
	45.0														
		R4						(45.30)		Drilled from			OCK		
										57" 95% UBLE TUBI			LINE"		
											,				
	50.0														
								ained for desi	•	DRILL RIG			A. Linstru		
acce	ess to the	same	inforn	natior	n avai	ilable	to the S	hat users ma State. It is		REG GEOT			L. Muhar	iiiiiaa Sr.	
presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume										ENGINEE					
of th		l at the	e site.	Inte	rpolat	tion b	etween	data sample:		DATE APP			<u>-2023</u> RI	EVISION # 1	
riot l	oe marcat	ve oi i	ne ac	iuai f	nateri	ıaı en	counter	cu.		STRUCTU				B.I.N	
CON	NTRACT			CONT	ΓRAC	TOR	C	ME Associat	tes	SHEET 2	OF 3		НС	DLE FH-\	W-4

SM 282 E 12 PSN	2/02 1 24 7	72	RΩ	RNUM	2		D	STATE OF N EPARTMENT OF TI		ATION		HOLE	FH-\\\/-/	1	
REGION			ьо	TUVOINI _		_	GE	OTECHNICAL ENG	INEERING E	BUREAU			111-00-	<u>r</u>	
COUNTY	Y <u>E</u>	RIE				_	SL	JBSURFACE EXF	LORATIO	N LOG	ŧ	STA			
PIN	_5	512.52	<u>:</u>			_						OFFSET	ft		
PROJEC	T _N	Y RT 3	33, KE	NSINGT	ON E	EXPY T	UNN	NEL SECTION				SURF. ELEV.	650.5	53	
ACTUAL	_ coc	RDIN	ATES	_(N) 1,0	58,8	52.500	(E	1,078,366.090	DATUM	NAD8	3	DEPTH TO W	ATER	SEE NOTE	Ξ
				DATE	E STA	ART _	29-/	AUG-2023	DATE F	INISH _	30-AUG	<u>3-2023</u>			
CASING	0. [) . 65	5/8 in	I. D). 3	1/4 i	in	WT OF HAMMER-0	CASING		lb	HAMMER FALL	CASING	j	in
SAMPLE	R 0. [) . 2	in	I. D). 1	3/8 i	in	WT OF HAMMER-S	AMPLER	140	lb	HAMMER FALL	SAMPLI	ER 30	in
	BELOW	SAMPLE NO.		LOWS ON AMPLER i	in 18	MOIST. CONT. (%)			DESC	CRIPTION	N OF SOI	L AND ROCK			

BOTTOM OF HOLE AT 50.30 ft

- 1. Autohammer used for SPT at all sampling depths. 2. SPT refusal @ 4.0 and 30.0' below grade.
- 3. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
29-Aug-23	13:15	30.30	28.50	30.00		NO
30-Aug-23	13:25	50.30	30.30	18.50		NO

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SOIL & ROCK DESCRIPTION L. Muhammad Sr. **REG GEOTECHNICAL** ENGINEER Todd E. Nelson DATE APPROVED <u>28-NOV-2023</u> REVISION #1 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-4 SHEET 3 OF 3

A. Linstruth

DRILL RIG OPERATOR

PSN REGI	ON _5		. В	ORNI	JM _	4	_	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG STA HOLE FH-W-5 LINE STA	_
COU		RIE					_	<u>=</u>	—
PIN		512.52						OFFSET ft	—
PRO.	JECI V	IYRI	33, K	ENS	<u>ING I</u>	ON E	XPY I	TUNNEL SECTION SURF. ELEV. 652.12	
ACT	JAL CO	ordin	ATES	(1)_ 6	N) 1,0)58,9	55.700	00 (E) 1,078,210.600 DATUM <u>NAD83</u> DEPTH TO WATER <u>NONE</u>	
					DATI	E ST	ART	25-SEP-2023 DATE FINISH 25-SEP-2023	
CASIN	IG O.	D . 6	5/8 ir	า	1. 0) . 3	1/4 i	in WT OF HAMMER-CASING Ib HAMMER FALL-CASING	in
SAMP	LER O.	D . 2	ir	า	I. D). 1	3/8 i	in WT OF HAMMER-SAMPLER 140 Ib HAMMER FALL-SAMPLER 30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOV AMP	LER	in 18	MOIST. CONT. (%)	T. DESCRIPTION OF SOIL AND ROCK	
	0.0							(0.00) ASPHALT Pavement	
								(0.30) CONCRETE Pavement	
		N	11	10				(1.00) No Sample	
		L						BOTTOM OF HOLE AT 2.30 ft	
						REF		50.10m of 11022711 2.00 ft	

*Attempted sample at 1.0'; refusal at 2.3'. Concrete noted in tip of spoon. Hole abandoned due to possible utility. Sample not retained. Hole moved, see log FH-W-5a for details.

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SOIL & ROCK DESCRIPT	Larry Wuriammad Sr.
REG GEOTECHNICAL	
ENGINEER Todd E. N	elson
DATE APPROVED 05-D	<u>EC-2023</u> REVISION # 2
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N
SHEET 1 OF 1	HOLE FH-W-5

B. Fletcher

DRILL RIG OPERATOR

CONTRACT _____ CONTRACTOR ___ CME Associates

SM 282 PSN REG			. В	ORN	JM _	5		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING I	BUREAU		HOLE LINE STA	FH-W-5a	
PIN	5	512.52					_				=	OFFSET		
								UNNEL SECTION	DATUM	NIA DO		SURF. ELEV		T NOTE
ACT	JAL COC)KUIN	AIE	_	N) 1,(DAT I			(E) 1,078,223.620 26-SEP-2023	DATUM DATE F	<u>NAD8</u> INISH	3 L 26-SEP-2		VATER SE	ENUIE
CASII			5/8 ir		1. 0) . 3	1/4	n WT OF HAMMER	-CASING		lb H	HAMMER FAL		in
SAME	PLER O. [) . 2	ir	1	1. 0) . 1	3/8 i	n WT OF HAMMER	-SAMPLER	140	lb H	HAMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S 0		LER 12	in 18	MOIST. CONT. (%)		DESC	RIPTION	I OF SOIL	AND ROCK		
	0.0		6	/ 12	/ 18	<u> 24</u>		(0.00)_ ASPH	ALT Paveme	ent				/— — — — — ·
		14	0						RETE Pave					
		J1	8	7			9.7%	(1.00) Gray-B	rown Sandy	SILT , G	ravelly Wit	th Pieces Of	Slag	(M-NPL)
					14									
		J2	20				9.8%	(3.50) Gray P	ulverized CC	NCRET	E Fill, Grav	 velly		(M-NPL)
	5.0			14	9									
	3.0				J									
		J3	8	_			12%	(8.50) Gray P	ulverized CC	NCRET	E Fill, San	dy		(M-NPL)
	10.0			8	48									
	10.0				10									
		J4	16	27		1	88.2%	(13.50) Gray P	ulverized CC	NCRET	E Fill, Trac	e Slag		(M-NPL)
	15.0			27	14									
											==			
		J5	11	4			16.6%	(18.50) Gray P	ulverized CC	NCRET	E Fill, Witr	n Pieces Of S	Slag	
	20.0				2									
		J6	1				15.8%		own Silty CI	ΔV San				. – – <u>– – – – – – – – – – – – – – – – –</u>
		30		1			10.070	(20.00) Neu-Di	Own Only OL	, Oal	. .			(IVI-I L)
	25.0				2									
The	subsurfac	ce info	rmatio	on sh	own h	ı nere v	vas obta	ained for design	DRILL RIG	OPERA1	ror .	B. Fletche	r	
and estimate purposes. It is made available so that users may have												Larry Muh	ammad Sr.	
access to the same information available to the State. It is presented in good faith. By the nature of the exploration process,									REG GEOT		AL d E. Nelsor	n		
								f the total volume data samples may	DATE APP				VISION # 2	
	be indicati								RESIDENT	ENGINE	ER			
									STRUCTU	KE NAME	=		B.I.N	
CO	NTRACT		(CONT	RAC	TOR	C	ME Associates	SHEET 1	OF 3		НО	LE FH-W	/-5a

PSN REGI COU	ON 5 NTY E	RIE	-	ORNI	JM _	5			ENT OF T		BUREAU		LINE STA		
PIN PRO		512.52 Y RT		ENS	INGT	ON E	_ EXPY T	UNNEL SEC	TION				OFFSET SURF. ELE	<u>ft</u> V. 652.05	
				1)_ 6	N) 1,C)58,9	45.170	(E) 1,078,2	23.620	DATUM		3	DEPTH TO	WATER S	EE NOTE
CASI	NG 0. I	D . 6	5/8 ir		DATE I. D	= 5 17). 3	_	26-SEP-202 n WT OF H		DATE F	INISH _	26-SEP-	- <u>2023</u> HAMMER FA	LL-CASING	in
SAMP	LER O. I) . 2	ir	n	I. D) . 1	3/8 i	n WT OF H	AMMER-	SAMPLER	140	lb	HAMMER FA	LL-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S 0	6	VS OI LER I	in 18	MOIST. CONT. (%)			DESC	RIPTION	I OF SOIL	. AND ROC	<	
	25.0		6	12	/ 18	<u> 24</u>									
		J7	4				 	(28.50)	Red Bro	own SAND ,	Gravelly				(M-NPL)
		37	-	7			0 70	(20.30)	ived-Dic	WII SAND ,	Graveny				(IVI-INFL)
	30.0				4										
		R1								Drilled from			OCK		
										59" 98.3% JBLE TUBE			I INF"		
											,				
	35.0														
		R2						(36.00)	Run #2	Drilled from	36'0" T	- /11'0'' P	OCK		
		112						, ,	REC. 5	59" 98.3%	8 Piece	es			
									NQ DOI	JBLE TUBE	, SWIVE	L "WIRE	LINE"		
	40.0														
		R3								Drilled from 59" 98.3%			OCK		
										JBLE TUBE			LINE"		
	45.0														
		R4								Drilled from 59" 98.3%			OCK		
										JBLE TUBE			LINE"		
	50.0														
The	subsurfs:	no info	rmatic)n 06	04/2 /	are :	vas obt	ained for desig	ın T	DRILL RIG	ODEDAT	TOP.	B. Fletch	or	
and	estimate	purpos	ses. I	t is m	ade a	availa	ble so t	hat users may	I					er hammad Sr.	
								State. It is Ioration proce:	ss,	REG GEOT			an.		
the i	nformatio	n repre	esent	s only	a sm	nall fr	action o	f the total volu data samples	me	ENGINEE DATE APP				EVISION # 2	
	be indicat									RESIDENT STRUCTUR				DIN	
CON	ITRACT		(CONT	TRAC	TOR	С	ME Associate	es	SHEET 2		-	НС	B.I.N DLE FH-V	V-5a

SM 282	E 12/02								S	TATE OF	NEW YORK			_					
PSN	124	72	BC	DRNU	Μ	5	_	D			TRANSPOR	TATION			IOLE	FH-W-	5a		
REGI	ON 5	5									GINEERING				LINE				
COU	NTY _E	RIE					_	St	JBSUR	FACE EX	(PLORATIC	ON LOG		=	STA				
PIN	5	512.52	2				_							OFF	SET	ft			
PRO.	JECT _1	Y RT	33, KI	ENSI	NGTO	N E	XPY T	UNN	NEL SE	CTION				SURF.	ELEV.	652.0	ე5		
ACTL	JAL CO	ORDIN	ATES	(N) 1,058	8,94	15.170	(E) 1,078	,223.620	_ DATUM	NAD8	33	DEPTH	N OT F	/ATER	_SE	E NOTE	
					DATE S	STA	RT _	26-	SEP-20	023	DATE F	INISH _	26-SEF	P-2023	_				
CASIN	IG O.	D . 6	5/8 in	1	I. D.	3 1	1/4 i	n	WT OF	HAMMER	-CASING		lb	HAMME	R FAL	L-CASING	}		in
SAMP	LER O.	D . 2	in	1	I. D.	13	3/8 i	n	WT OF	HAMMER	-SAMPLER	140	lb	HAMME	R FAL	L-SAMPL	ER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	6 1	ER in		MOIST. CONT. (%)				DES	CRIPTIO	N OF SOI	L AND I	ROCK				
	50.0																		

BOTTOM OF HOLE AT 51.00 ft

- 1. Relocated boring FH-W-5 due to possible unmarked concrete utility encasement encountered at 2.3' depth.
- 2. Autohammer used for SPT at all sampling depths.
 3. Bore hole backfilled with spoils upon completion.

^{*}Revised to edit "notes" section

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
26-Sep-23	12:30	31.00	31.00	NONE		NO
26-Sep-23	14:50	51.00	31.00	20.90		NO

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SOIL & ROCK DESCRIPTION Larry	Muhammad Sr.
REG GEOTECHNICAL	
ENGINEER Todd E. Nelson	
DATE APPROVED 28-NOV-2023	REVISION # 2
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N.
SHEET 3 OF 3	HOLE FH-W-5a

B. Fletcher

DRILL RIG OPERATOR

SM 282 PSN REGI			B(ORNI	UM _	6		DEPARTN GEOTECHN	NICAL ENGI	EW YORK RANSPORTA INEERING B PLORATION	UREAU		HOLE LINE STA	FH-W-6	
PIN		512.52					 	TIMMEL QE	CTIONI				OFFSET	ft 651.81	
								UNNEL SE (E) 1,078,		DATUM	NAD8		URF. ELEV EPTH TO V	. <u>651.81</u> VATER <u>SE</u>	E NOTE
24011		- 01	- <u>(</u> 2 !-		DATE		_	30-AUG-20		DATE FI	NISH _	30-AUG-2			
CASI	NG O. [PLER O. [5/8 ir ir		I. D I. D				HAMMER-C HAMMER-S		140		AMMER FAL AMMER FAL	L-CASING L-SAMPLER	in 30 in
			E	al OV	NS OI										
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	6	LER i	in 18	MOIST. CONT. (%)			DESC	RIPTION	OF SOIL A	AND ROCK		
	0.0	J1	3	6			24.3%	(0.00)	Brown Sa	andy SILT ,	Organic	;			(M-NPL)
				0	12	11									
	5.0	J2	10	12	14		11.8%	(4.00)	Brown Si	Ity CLAY,	Sandy				(M-PL)
						16									
	10.0	J3	6	10	16		13.5%	(9.00)	Red-Brov	wn Silty CL	ĀŢ ĀĀ	dy With Gr	 ravel		(M-PL)
					16	16									
	15.0	J4	6	7	8	10	16.2%	(14.00)	Red-Brov	wn Silty CL	AY , San	dy			(M-PL)
		J5	10	24			19.3%	(19.00)	Red-Brov	wn Fine Sa	ndy SILT	-			(M-NPL)
	20.0			21	18	13									
	25.0	J6	3	4			17.4%	(24.00)	Red-Brov	wn Silty CL	AY , San	dy			(M-PL)
and acce pres the i	estimate pess to the sented in ginformatio	ourpos same l good fa n repre	ses. It inform aith. E esents	t is m natior By the s only	nade a n avai e natu y a sm	availa ilable ire of nall fr	to the S the exp action o	ained for des hat users ma State. It is ploration proc of the total vo	y have sess, lume	DRILL RIG SOIL & ROO REG GEOT ENGINEEI DATE APPI	CK DESC ECHNICA R Todd	CRIPTION AL I E. Nelson			
	ie materia be indicati							data sample red.	S Illay	RESIDENT	ENGINE	ER	<u>020</u>		
									{	STRUCTUR	KE NAME	:		B.I.N	
CON	NTRACT		(CONT	TRAC	TOR	C	ME Associa	tes 3	SHEET 1 (OF 3		HO	LE FH-W	/-6

SM 282 PSN REG	ION 5		. В	ORNI	UM _	6		DEPARTN GEOTECHN	MENT OF	NEW YORK TRANSPORT GINEERING I (PLORATIC	BUREAU		HOLE LINE		
PIN		512.52	2				_					=	OFFSET		
								UNNEL SE (E) 1,078,		DATUM	NAD8	3		V . <u>651.81</u> WATER SI	EE NOTE
ACT	JAL COC	JINDIN	AIL		DAT			30-AUG-20		_ DATOW		30-AUG		WAILK	LLINOIL
CASII			5/8 ii) . 3			HAMMER		440	lb	HAMMER FA		in
	PLER O. I	D . 2	i		1. [3/8 i	in WT OF	HAMMER	-SAMPLER	140	lb	HAMMER FA	LL-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	SLOV SAMP	LER 12	in 18	MOIST. CONT. (%)			DESC	CRIPTION	N OF SOIL	AND ROC	ĸ	
	25.0		Ť		6										
						6									
		J7	1				14.3%		Red-Bro	own Silty CL	AV Sar				(M-PL)
	30.0	"		2	4		14.070	(20.00)	rtou Bro	own only of	ori , oai	idy			(14.1 =)
						6	L	704-005	D 44	Drilled from		- 001011 10			
		R1						(31.00)	REC.	60" 100%	19 piec	es			
									NQ DO	UBLE TUBE	E, SWIVE	L "WIRE	LINE"		
	35.0														
									- D 710	·5					
		R2						(36.00)	REC.	Drilled from 60" 100%	13 piec	es			
									NQ DO	UBLE TUBE	E, SWIVE	EL "WIRE	LINE"		
	40.0														
							L								
		R3						(41.00)		Drilled from 60" 100%			OCK		
									NQ DO	UBLE TUBE	E, SŴIVE	EL "WIRE	LINE"		
	45.0														
							L	L							
		R4						(46.00)		Drilled from 52" 99.6%			OCK		
									NQ DO	UBLE TUBE	E, SŴIVE	EL "WIRE	LINE"		
	50.0														
The	subsurfac	ce info	ı rmatio	on sh	own f	nere i	vas obta	L ained for des	ign	DRILL RIG	OPERA	TOR	A. Linstr	uth	
								hat users ma State. It is	y have	SOIL & RO			Larry Mu	hammad Sr	
pres	ented in g	good fa	aith. I	By the	e natu	ıre of	the exp	ploration proc of the total vo		ENGINEE	R Tode	d E. Nelso			
of th	ne materia	al at the	site.	Inte	rpolat	tion b	etween	data sample		DATE APP			<u>-2023</u> R	EVISION # 1	
not	be indicat	ive of t	ne ac	tual r	nater	ial en	counter	rea.		STRUCTU				B.I.N	
CO	NTRACT		(CONT	ΓRAC	TOR	c	ME Associa	tes	SHEET 2	OF 3		НС	DLE FH-V	V-6

SM 282	E 12/02							TATE OF N	EW/ YORK						
PSN	124	72	ВС	RNUM	6	_	DEPART	STATE OF N MENT OF T	RANSPORTA				FH-W-6	3	
REGI	ON 5	5						INICAL ENGI				LINE			
COU	NTY E	RIE					SUBSUR	RFACE EXF	PLORATIO	N LOG	=	STA			
PIN	_	512.52	2									OFFSET	ft		
PRO.	JECT _N	NY RT	33, KE	ENSING	ON I	EXPY T	UNNEL SE	CTION				SURF. ELEV	. 651.8	31	
ACTU	JAL CO	ORDIN	ATES	(N) 1,	058,9	92.090	(E) 1,078	3,448.360	DATUM	NAD8	3	DEPTH TO V	VATER	SEE NOTE	
				DAT	E ST	ART _	30-AUG-2	023	DATE FI	NISH _	30-AUG	9-2023			
CASI	NG O.	D . 6	5/8 in	1.1	o . 3	1/4 i	n WT OF	HAMMER-C	ASING		lb	HAMMER FAL	L-CASING	}	in
SAMP	LER O.	D. 2	in	1. 1) . 1	3/8 i	n WT OF	HAMMER-S	AMPLER	140	lb	HAMMER FAL	L-SAMPL	ER 30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	_	LOWS OAMPLER	in 18	MOIST. CONT. (%)			DESC	RIPTION	N OF SOI	L AND ROCK			
	50.0														

BOTTOM OF HOLE AT 51.00 ft

- Autohammer used for SPT at all sampling depths.
 SPT refusal @ 31.0' below grade.
- 3. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
30-Aug-23	16:00	32.00	29.00	30.80		NO
31-Aug-23	09:35	32.00	32.00	23.30		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larr	y Muhammad Sr
REG GEOTECHNICAL	
ENGINEER Todd E. Nelson	
DATE APPROVED <u>28-NOV-2023</u>	REVISION # 1
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N.
CHEET 2 OF 2	HOLE EH-W-6

A. Linstruth

DRILL RIG OPERATOR

SM 282 PSN REGI			. B(ORNI	UM _	19		STATE OF DEPARTMENT OF GEOTECHNICAL ET SUBSURFACE E	NGINEERING I	BUREAU		HOLE LINE STA	FH-W-8	
PIN		512.52			·· · · · · ·			"" " INC. CECTION				OFFSET		
								UNNEL SECTION (E) 1,078,291.210	DATUM	NAD8		SURF. ELEV DEPTH TO V	. <u>654.25</u> V ATER SE	E NOTE
					DAT	E ST	ART _	25-SEP-2023	DATE F		25-SEP-	2023		
CASI	NG O. I PLER O. I		5/8 iı iı		1. C). 3) 1		n WT OF HAMME		140		HAMMER FAL HAMMER FAL		in 30 in
							3/6	II	Y-OAMII EEIX	170	10 .	IAWWELL 17.	L'OAIII LLIX	30
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		/	LER 12	in 18	MOIST. CONT. (%)		DESC	CRIPTION	N OF SOIL	AND ROCK		
	0.0			-	,,,				ALT Paveme					
		J1	7	\vdash			14.1%		CRETE Pave Brown Silty S		avelly Wit	 h Clav		(M-LPL)
		-		5	_			(, 5.5, 2	10Wii 0, 2.	AIND , C.	avony	II Olay		, , ,
					5									
		10												
		J2	8	10			14.1%	(3.50) NO S	AMPLE					
	5.0				14									
		J3	4				14.7%	(8.50) Red-B	rown Silty CL	ĀŢ , Sar	ndy With G	 Fravel		(M-PL)
	10.0			3	6									
	10.0				-									
		14	,	Ш			40.60/		Silby Cl	4V -Con	\W;#b C			
		J4	2	3			16.6%	(13.50) Red-B	rown Silly Ol	-AY, ⊙aı	nay wilii G	iravei		(M-PL)
	15.0				4									
	<u> </u>													
		J5	3				15.2%	(18.50) Red-B	rown Silty CL	ĀŸ , Sar	ndy			(M-PL)
	20.0			4	7									
		J6	1				21%		rown Silty Cl	AY Sar				(M-PL)
		00	'	3	_		2170	(20.00) 1100 B	TOWN Only OL	zrr , oar	iay			(W11 L)
	25.0				3									
								ained for design	DRILL RIG			B. Fletche		
								hat users may have State. It is	SOIL & RO			Larry Muh	ammad Sr.	
pres	ented in g	good fa	aith. I	By the	e natu	ıre of	the exp	loration process, If the total volume	ENGINEE	R Todo	d E. Nelsoi			
of th	e materia	l at the	site.	Inter	rpolat	ion b	etween	data samples may	DATE APP			2023 RE	VISION # 1	
not l	be indicati	ive of t	he ac	tual n	nater	ial en	counter	red.	STRUCTU				B.I.N	
CON	NTRACT		(CONT	ΓRAC	TOR	C	ME Associates	SHEET 1	OF 3		НО	LE FH-W	'-8

SM 282 PSN REGI			B(ORNI	UM _	19		STATE OF DEPARTMENT OF GEOTECHNICAL ENG SUBSURFACE EX	GINEERING E	BUREAU		HOLE LINE STA	FH-W-8	
PIN		512.52		TNC	INICT	- N E		TIME SECTION				OFFSET		
								(E) 1,078,291.210	DATUM	NAD8		SURF. ELEV DEPTH TO V	. <u>654.25</u> VATER <u>SE</u>	E NOTE
					DATI		_	25-SEP-2023	DATE F	INISH _	25-SEP-2	2023		
CASI	NG O. [PLER O. [5/8 ir ir		1. C). 3). 1		n WT OF HAMMER		140		IAMMER FAL IAMMER FAL	.L-CASING .L-SAMPLER	in 30 in
				 BLOV			0.2		<u> </u>			u		
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	6		in 18	MOIST. CONT. (%)		DESC	CRIPTION	I OF SOIL	AND ROCK		
	25.0			-										
							L:							
		J7	1	3			17.7%		own Silty Cl	ΔV San				(M-PL)
					4			(20.00) 1104 211	JVVII Only CL	.A i , Ca.	idy			(IVI=1 = <i>)</i>
	30.0													
		J8	WOH	1			23.9%	(33.50) Red-Bro	own Silty CL	AY , San	ndy			(M-PL)
	35.0			1	2									
		R1						(38.10) Run #1	Drilled from 59" 98.3%			OCK		
									UBLE TUBE			INE"		
	40.0													
		R2					L		Drilled from	43'1" To	3 48'1" RC	OCK		
		•						` REC. (60" 100% UBLE TUBE	10 Piec	es			
	45.0							NQ DO	ODLL 1001	E, SVVIVE	EL VVIINEE	IIN⊏		
		R3						(48.10) Run #3	Drilled from 60" 100%	48'1" To	o 53'1" RC :es	OCK		
								NQ DO	UBLE TUBE	E, SWIVE	L "WIREL	INE"		
	50.0													
								ained for design	DRILL RIG			B. Fletche		
								hat users may have State. It is	SOIL & RO			Larry Muh	ammad Sr.	
								loration process, f the total volume	ENGINEE	R Todo	d E. Nelsor			
of th	e materia	l at the	e site.	Inte	rpolat	ion b	etween	data samples may	DATE APP RESIDENT			2 <u>023</u> RE	VISION # 1	
not i	be indicati	ive of t	he ac	tual r	nateri	ial en	counter	ed.	STRUCTU				B.I.N	
CON	NTRACT		(CONT	ΓRAC	TOR	_ C	ME Associates	SHEET 2	OF 3		НО	LE FH-W	/-8

SM 282 PSN	E 12/02 124	72	В	ORNL	JM	19			TATE OF NE		ATION	<u>_</u>		HOLE	FH-W-	8		
REG	ON 5							GEOTECHI						LINE				
COU	NTY E	RIE						SUBSUR	FACE EXP	LORATIC	N LOG	=		STA				
PIN	_5	512.52	2									_	O	FSET	ft			
PRO.	JECT N	Y RT	33, K	ENSI	NGT	ON E	EXPY 1	TUNNEL SE	CTION				SURF	F. ELEV.	654.	25		
ACTI	JAL CO	ORDIN	ATES	_				(E) 1,078,		DATUM					ATER	SE	E NOTE	
					DATE	_	_	25-SEP-20	23	DATE F	INISH _	25-SEF	P-2023	<u> </u>				
CASI		D . 6). 3			HAMMER-C			lb		IER FALI				in
SAME	PLER O. I	D . 2	iı	n	I. D). 1	3/8	in WT OF	HAMMER-S	AMPLER	140	lb	HAMN	IER FALL	SAMPL	.ER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S		LER i		MOIST. CONT. (%)			DESC	CRIPTIO	N OF SOI	L AND	ROCK				
	55.0	R4						(53.10)	Run #4 D REC. 60 NQ DOUI		5 Piece	es						

BOTTOM OF HOLE AT 58.10 ft

DRILL RIG OPERATOR

- 1. Autohammer used for SPT at all sampling depths.
- 2. Bore hole backfilled with spoils upon completion.
- 3. Sample J2 had no sample recovery.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIL	HOLE	CASING	WATER		END OF DAY
25-Sep-23	10:45	38.10	38.10	37.40		NO
25-Sep-23	13:00	58.10	38.10	19.00		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.

REG GEOTECHNICAL
ENGINEER Todd E. Nelson

DATE APPROVED 28-NOV-2023 REVISION # 1

RESIDENT ENGINEER
STRUCTURE NAME B.I.N.

SHEET 3 OF 3 HOLE FH-W-8

B. Fletcher

CONTRACT _____ CONTRACTOR ___ CME Associates

PSN REGI COU	NTY E	RIE		ORNI	UM _	9		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	BUREAU		LINE	FH-W-9	
PIN PRO		512.52 Y RT		ENS	INGT	ON I	EXPY T	UNNEL SECTION			_	OFFSET SURF. ELEV		
				1)_	N) 1,0)59,1	18.190	(E) 1,078,471.710		NAD8	3 I	DEPTH TO W	VATER SE	E NOTE
CASII	NG 0. I) . 6	5/8 ir		DATI	ESIA D. 3		01-SEP-2023 n WT OF HAMMER	DATE F -CASING	INISH _	01-SEP-	<u>2023 </u> H ammer fal	L-CASING	in
	PLER O. I		ir		1. 0			n WT OF HAMMER		140		HAMMER FAL		30 in
ING NS/ft	TH ft OW ACE	PLE J.		SLOV SAMP			MOIST.		DESC	AOITEI (A	. 02 0011	AND BOOK		
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 6	/	/	18	CONT. (%)		DESC	KIPTION	I UF SUIL	AND ROCK		
	0.0	14				_	6.00/	(0.00) ASPH		= -		-5		
		J1	8	8			6.2%	(0.50) Grey F	ne Sandy G	RAVEL,	Silty, rac	ce Clay		(M-LPL)
					8	6								
						U								
		J2	7				15.5%	(3.50) Brown	Silhv CI AY	Sandy				(M-PL)
		02		8			10.070	(0.00) 5101	Only OL (1),	Oandy				(IVI-1 <i>L)</i>
	5.0				12	10								
							 							
		J3	8	9			17%	(8.50) Red-Br	own Silty CL	AY , Tra	ce Sand			(M-PL)
	10.0			3	16									
						16								
		J4	4				13.8%	(13.50) Red-Br	own Silty CL	AY , Gra	velly			(M-PL)
	15.0			9	8									
						10								
		J5	1				15.1%		own Silty CL	AY . Gra				(M-PL)
	20.0			3	4			()	,	, -	,			()
	20.0				4	5								
		10	WOH				46.00/		Cilty CI	AV -C				
		J6	WUN	2			16.2%	(23.50) Red-Br	own Silly CL	AY, Gra	ivelly			(M-PL)
	25.0				2									
								ained for design	DRILL RIG			A. Linstrut		_
								hat users may have State. It is	SOIL & RO			Larry Muh	ammad Sr.	
pres	ented in g	good fa	aith. E	By the	e natu	ire of	the exp	loration process, f the total volume	ENGINEE	R Toda	d E. Nelso			
of th	ne materia	I at the	site.	Inte	rpolat	ion b	etween	data samples may	DATE APP RESIDENT			2023 RE	VISION #2	
not i	be indicati	ve of t	he ac	tual r	nater	ial en	counter	ed.	STRUCTU				B.I.N	
CON	NTRACT			CONT	ΓRAC	TOR	C	ME Associates	SHEET 1	OF 3		НО	LE FH-W	7-9

PSN REGI COU	ION 5 NTY E	RIE	-	ORNI	JM _	9		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E	IGINEERING E	BUREAU		LINE STA	FH-W-9	
	JECT N		33, K					UNNEL SECTION				OFFSET SURF. ELEV		
ACT	JAL CO	RDIN	ATES		-		18.190 ART	(E) 1,078,471.710 01-SEP-2023	DATUM DATE F		3 01-SEP-		VATER SE	E NOTE
CASII) . 6	5/8 ir		I. E) . 3	3 1/4 i	n WT OF HAMMER	R-CASING		lb	HAMMER FAL		in
	PLER O. I) . 2	ir		I. C		3/8 i	n WT OF HAMMER	R-SAMPLER	140	lb	HAMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S			in 18	MOIST. CONT. (%)		DESC	RIPTION	OF SOIL	AND ROCK		
	25.0					4								
		J7	2	_			17.3%	(28.50) Red-B	rown Silty CL	AY , San	ndy With G	Gravel		(M-PL)
	30.0			4	5									
						4								
		R1							Drilled from			OCK		
	REC. 60" 100% 13 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"													
	35.0													
	35.0													
							L							
		R2						` REC.	60" 100%	15 piec	es			
												LINE"		
R2 (37.00) Run #2 Drilled from 37'0" To 42'0" ROCK REC. 60" 100% 15 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE" 40.0														
	40.0													
		R3							R Drilled from	42'0" To		<u>∵.</u> – – – –		
		110						REC.	60" 100% OUBLE TUBE	10 piec	es			
								HQ D	JUBLE 1001	I, OVVIV	EL VVIINE:	LIINL		
	45.0													
	_	R4						(47.00) Run #4				OCK		
									60" 100% OUBLE TUBE			LINE"		
	50.0													
The	subsurfac	ce info	l rmatio	on sh	own h	nere v	li was obta	ained for design	DRILL RIG	OPERAT	ΓOR	A. Linstru	th	
								hat users may have State. It is	SOIL & RO			Larry Muh	nammad Sr.	
pres	ented in g	good fa	aith. E	By the	e natu	ıre of	the exp	loration process, f the total volume	ENGINEE	R Toda	d E. Nelso			
of th		l at the	site.	Inte	rpolat	ion b	etween	data samples may	DATE APP RESIDENT			<u>2023</u> RE	VISION # 2	
HOLI	ue muicau	ve or t	ne ac	luai i	naten	iai eri	counter	ea.	STRUCTU				B.I.N	
CON	NTRACT		(CONT	RAC	TOR	C	ME Associates	SHEET 2	OF 3		НО	LE FH-W	·-9

CN1 202	E 12/02								07475.054	IEM MODIC							
PSN	124	72	Βſ)RNI	JM	q		DEPAR	STATE OF N RTMENT OF 1		ΔΤΙΟΝ	_	HOLF	FH-W-9	a		
REGI	-			J1 (1 1 (_		_		CHNICAL ENG								
COU		RIE					_	SUBSU	JRFACE EX	PLORATIO	N LOG		STA				
PIN		512.52	,				_					===	OFFSET	ft			
PRO.				FNS	INGT	ON F	_ XPV T	LINNEL S	SECTION				SURF. ELEV.		28		
	JAL CO		,				18.190		78,471.710	DATUM	NAD8	13	DEPTH TO W			NOTE	—
ACIO	JAL CO		~!L		DATE			01-SEP		DATEF		01-SEP	_	AILIN	OLL	NOIL	—
CACIA		• •	-/0 :								IINION _			CACINIC			
CASI	NG O.	D . 63	5/8 ir	1	I. D	. 3	1/4 I	n WT	OF HAMMER-	CASING		lb	HAMMER FAL	L-CASING	,		in
SAMP	LER O.	D . 2	ir	1	I. D	. 1	3/8 i	n WT	OF HAMMER-	SAMPLER	140	lb	HAMMER FAL	L-SAMPL	ER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP		n 18	MOIST. CONT. (%)			DESC	CRIPTION	N OF SOII	L AND ROCK				
	50.0 — —																

BOTTOM OF HOLE AT 52.00 ft

- 1. Autohammer used for SPT at all sampling depths.
- Auger refusal at 32.0'.
 Bore hole backfilled with spoils upon completion.
- *Log revised to add core barrel description, and to correct soil layer break from 30.5' to 32.0'.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIL	HOLE	CASING	WATER		END OF DAY
01-Sep-23	08:50	30.50	28.50	NONE		NO
01-Sep-23	13:25	52.00	32.00	2.20		NO

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	SOIL & ROCK DESCRIPTION Lar	ry Muhammad Sr.					
REG GEOTECHNICAL							
	ENGINEER Todd E. Nelson						
	DATE APPROVED <u>28-NOV-2023</u>	REVISION # 2					
RESIDENT ENGINEER							
	STRUCTURE NAME	B.I.N.					
	SHEET 3 OF 3	HOLE FH-W-9					

A. Linstruth

DRILL RIG OPERATOR

SM 282 PSN REG			_ B(ORNI	JM _	20		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING I	BUREAU		HOLE LINE STA	FH-W-10	
PIN	5	512.52										OFFSET		
								UNNEL SECTION (E) 1,078,363.590	DATUM	NAD8		SURF. ELEV DEPTH TO W		F NOTE
	J ,	,,,	,		DATI	E ST	ART _	21-SEP-2023	DATE F		21-SEP-		<u>-</u> _	
CASII	NG O. I PLER O. I		5/8 iı iı		I. C). 3) 1		in WT OF HAMMER in WT OF HAMMER		140		HAMMER FAL		in 30 in
				" BLOV			5/6	W1 O1 11 anni-	-UAIIII EEI	140	IIV	I IAMMET CO.	L-OAMI LLIX	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6	LER	in 18	MOIST. CONT. (%)		DESC	CRIPTION	I OF SOIL	. AND ROCK		
	0.0				,,,				ALT Paveme					
		J1	7				 10.7%		RETE Pave own Silty CL					(M-NPL)
		,		7	_			(****/	Own only 2	./· ,	iay			
					5									
		J2	6				12.1%	(3.50) Red-Br	Silby CI	AV Son	\ - -\\	5		
	<u> </u>	J∠	"	10			IZ. 170	(3.30) Neu-Di	OWN SIILY OL	.Ат , Зап	iay vviui c	ofavei		(M-PL)
	5.0				13									
							L	L						
		J3	4	6			13.1%	(8.50) Red-Br	own-Grey S	Ity CLAY	′ , Sandy			(M-PL)
	10.0				9									
		J4	3	_			15.5%	(13.50) Red-Br	own Silty CL	AY , San	ndy			(M-PL)
	15.0			5	8									
		J5	3				18.6%	(18.50) Red-Br	own Silty CL	AY , San	 ndy			(M-PL)
	20.0			4	5									
		J6	2				14.4%		own Silty CI	AY San	ndv With (. – – (M-PL)
			-	2			1.170	(20.00) 1.00 5.	own only or	arti , oui	iay vviai c	514161		(: _)
	25.0				4									
								ained for design	DRILL RIG			B. Fletche		
acce	ess to the	same .	inforn	natior	n avai	ilable	to the S	hat users may have State. It is	REG GEOT			Larry Muh	ammad Sr.	
								oloration process, of the total volume	ENGINEE				//CION # 4	
of th		l at the	site.	Inte	rpolat	ion b	etween	data samples may	DATE APP RESIDENT			- <u>2023</u> RE	VISION # 1	
1101	oc maicali	ve or t	iic at	ruai I	101611	ai Cil	Journer	ou.	STRUCTU				B.I.N	
CO	NTRACT		(CONT	RAC	TOR	C	ME Associates	SHEET 1	OF 3		НО	LE FH-W	<i>'</i> -10

SM 282 PSN REGI COU	NTY E		-	ORNI	UM _	20		DEPARTMI GEOTECHNI	ENT OF T	NEW YORK FRANSPORT SINEERING E PLORATIO	BUREAU		HOLE LINE STA OFFSET	FH-W-10	
PRO.	JECT N	Y RT	33, K					UNNEL SEC					SURF. ELEV	655.41	
ACT	JAL COC	RDIN	ATES	_	N) 1,0 DATI			(E) 1,078,3 21-SEP-202		_ DATUM DATE F		3 <u> </u>		NATER SE	EE NOTE
CASII	NG O. I		5/8 ir	n	I. D) . 3	1/4 i	n WT OF H	IAMMER-	CASING	_	lb F	IAMMER FAL		in
	_		ir		1. D VS OI		3/8 i	n WT OF H	IAIVIIVIEN-	SAMPLER	140	lb F	1AIVIIVIER FAL	_L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	6	LER	in 18	MOIST. CONT. (%)			DESC	CRIPTION	I OF SOIL	AND ROCK		
	25.0 														
	30.0	J7	15	29	14		14.9%	<u>(28.50)</u>	Red-Bro	own Silty CL	AY , San	dy With G	ravel		(M-PL)
												dy With G	ravel		(M-PL)
	40.0	J9	1	2	2		25.6%	(38.50) 	Red-Bro	own Silty CL	AY , San	ndy With G	ravel		(M-PL)
	45.0	R1						,	REC. 6	Drilled from 60" 100% JBLE TUBE	9 Piece	s			
	45.0 R2 (46.20) Run #2 Drilled from 46'2" To 51'2" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE" 50.0														
and acce pres the i	estimate pess to the sented in granted in gr	purpos same good fa n repre l at the	ses. It inforn aith. E esents e site.	t is m natior By the s only Inter	nade a n avai e natu / a sm rpolat	availa ilable ire of nall fr	ble so to to the so the exp action of etween	ained for desig hat users may State. It is oloration proce of the total volu data samples red.	have ss, ime	REG GEOT	CK DESC ECHNICA R Toda ROVED ENGINE	CRIPTION AL d E. Nelsor 05-DEC-2 ER	1	er nammad Sr. EVISION # 1	
CON	NTRACT		(CONT	ΓRAC	TOR	С	ME Associate	es	SHEET 2	OF 3		НО	LE FH-W	/-10

PSN REGI COUI PIN PRO ACTU	JECT N	RIE 512.52 Y RT : ORDIN D. 6 !	2 33, K ATES	6 <u>(</u> 1 n	INGT V) 1,0 DAT I	ON E 059,3 E ST/ D. 3	= = = 34.700 ART _ 1/4 i		
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	s		LER 12		MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK	
	50.0	R3						(51.20) Run #3 Drilled from 51'2" To 56'2" ROCK REC. 60" 100% 6 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	_
	60.0	R4						(56.20) Run #4 Drilled from 56'2" To 61'2" ROCK REC. 58" 96.7% 6 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	_

- Autohammer used for SPT at all sampling depths.
 Bore hole backfilled with spoils upon completion.

	DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
		I IIVIL	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
	21-Sep-23	11:30	30.00	28.50	NONE		NO
	21-Sep-23	12:00	41.20	41.20	NONE		NO
	21-Sep-23	15:40	61.20	41.20	5.20		NO

DRILL RIG OPERATOR

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.

REG GEOTECHNICAL
ENGINEER Todd E. Nelson

DATE APPROVED 05-DEC-2023 REVISION # 1

RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.

SHEET 3 OF 3 HOLE FH-W-10

B. Fletcher

CONTRACT _____ CONTRACTOR ___ CME Associates

Page	PSN REGI COUI PIN PRO. ACTU	GEOTECHNICAL ENGINEERING BUREAU STA SUBSURFACE EXPLORATION LOG STA S														
0.0								3/8 i	in WT OF	HAMMER	-SAMPLER	140	lb H	IAMMER FAL	L-SAMPLER	30 in
0.0	CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	6	LER	in 18	CONT. (%)			DESC	CRIPTION	OF SOIL	AND ROCK		
10.0 J3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		0.0	J1			/ 18	<u> 24</u>		(0.00)	Brown S	Sandy SILT	Gravelly				(D-NW)
5.0 J6 7 REF 30.2% (24.00) Brown Silty GRAVEL Sandy (M-NPI 20.0 J5 2 2 2 111.7% (19.00) Brown Silty GRAVEL Sandy (M-NPI 20.0 J5 2 2 2 2 111.7% (19.00) Brown Silty GRAVEL Sandy (M-NPI 20.0 J6 7 REF 30.2% (24.00) Brown Silty GRAVEL Sandy (M-NPI 20.		 			,	16	17									
10.0		5.0	J2	8	9	5	5	6.5%	(4.00)	Brown	Sandy SILT	Gravelly				(D-NW)
15.0		10.0	J3	3	3	3		10.9%	(9.00)	Brown S	Sandy SILT	Gravelly				(M-NPL)
20.0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		15.0	J4	7	8	5	4	8.2%	(14.00)	Gray-Bi	rown Silty S	ILT Sandy	y			(M-NPL)
The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. J6 7 30.2% (24.00) Brown Silty SAND Clayey (M-LPI SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 28-NOV-2023 REVISION # 1 RESIDENT ENGINEER Control of the service of the actual material encountered.		20.0	J5	2	2	2		11.7%	<u>(19.00)</u>	Brown S	Silty GRAVE	EL Sandy				(M-NPL)
and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 28-NOV-2023 REVISION # 1 RESIDENT ENGINEER		25.0	J6	7	REF			30.2%	(24.00)	Brown S	Silty SAND	Clayey				(M-LPL)
CONTRACT CONTRACTORCME_Associates SHEET 1 OF 2 HOLE FH-W-11	and acce pres the i of th not k	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR A. Linstruth SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 28-NOV-2023 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N.														

SM 282 PSN	E 12/02 124	172	R	ORNI	IM	8			STATE OF N		TATION		HOLE	FH-W-11		
REG				Orare			_		NICAL ENG				LINE			
COU		RIE						SUBSUR	FACE EXP	PLORATIC	N LOG		STA			
PIN	5	5512.52	2										OFFSET	ft		
PRO.	JECT _	NY RT	33, K	ENSI	INGT	ON E	EXPY 1	TUNNEL SE	CTION				SURF. ELEV			
ACT	JAL CO	ORDIN	IATES					(E) 1,078	•	_	NAD8		DEPTH TO V	VATER _S	SEE NOT	<u>E</u>
					DATE	_	_	05-SEP-20		DATE F	INISH _	05-SEF				
CASII		D . 6). 3			HAMMER-0		4.40	lb 	HAMMER FAL		00	in
SAME	PLER O.	D . 2	II	n	I. D). 1	3/8	in WT OF	HAMMER-S	SAMPLER	140	lb	HAMMER FAL	L-SAMPLER	30	in
BLOWS ON SAMPLER in CONT. (%) BLOWS ON SAMPLER in CONT. (%) BLOWS ON SAMPLER in CONT. (%)											L AND ROCK					
	25.0 	J7 -					2.3%	(24.70)	Gray CO	NCRETE					(M	-NPL)
	30.0	J8	2	2	3	3	20.2%	(28.00)	Red-Bro	wn CLAY (Gravelly				(N	1-PL)
									BOTTON	JOF HOL	E AT 30.0	00 ft		•		

- Autohammer used for SPT at all sampling depths.
 Auger Refusal at 25'. Split spoon was obtained through the core hole, but augers were unable to advance past concrete obstruction. Boring terminated at 30ft; rig was moved 3ft north to reattempt. See log 11a for continuation.
- 3. Bore hole backfilled with spoils upon completion.

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Lar	y Muhammad Sr.
REG GEOTECHNICAL	
ENGINEER Todd E. Nelson	
DATE APPROVED <u>28-NOV-2023</u>	REVISION # 1
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N.
SHEET 2 OF 2	HOLE EH-W-11

A. Linstruth

DRILL RIG OPERATOR

REGION COUNTY PIN PROJECT	2472 5 ERIE 5512.5 NY RT	2 33, KENS	N) 1,059	N EXPY T	DEPARTM GEOTECHN SUBSURI UNNEL SEO (E) 1,078,	MENT OF T NICAL ENG FACE EXI CTION 526.720	IEW YORK RANSPORTA INEERING B PLORATION	N LOG		LINE STA OFFSET SURF. ELEV. DEPTH TO W	ft _655.3 ATER _SE	E NOTE
CASING SAMPLER		5/8 in in	I. D. I. D.	3 1/4 i		123 HAMMER-0 HAMMER-1		NISH(<u>2023</u> IAMMER FALI IAMMER FALI		in 30 in
CASING BLOWS/ft DEPTH ft BELOW	SURFACE SAMPLE NO.		WS ON PLER in	MOIST. CONT. (%)			DESC	RIPTION (OF SOIL /	AND ROCK		
0.0					(0.00)	No Sam	ples Taken,	See Note	es			
and estimated access to presented the information	ate purpos the same in good fa ation repr erial at the cative of	ses. It is minformation information information information information information in the sectual information in the actual information in the sectual information in the section i	nade ava n availab e nature y a small rpolation	nilable so to ble to the S of the exp I fraction o on between encounter	loration proc f the total vo data sample	ess, lume s may	DRILL RIG SOIL & ROO REG GEOT ENGINEEI DATE APPF RESIDENT STRUCTUR	CK DESCRECHNICAI R Todd E ROVED 2 ENGINEEI RE NAME	RIPTION L E. Nelson 8-NOV-2	<u>2023</u> RE\		110

PSN REGI COUI PIN PRO	NTY E 5 JECT N JAL COO	RIE 512.52 Y RT : DRDIN	2 33, K	ENS (ľ		ON E 059,2 E ST /	 <u>EXPY T</u> 85.290 ART	STATE CONTROL OF SUBSURFACE SUBSURFACE SUNSURFACE SUNFACE SUNSURFACE SUNFACE SUNSURFACE	ENGINEERING I EXPLORATIO DATUM DATE F	BUREAU EN LOG EN LOG	DE)8-SEP-20	LINE STA OFFSET JRF. ELEV. EPTH TO W	ATER SE	E NOTE
	PLER O.I		ir E		1. D VS OI			in WT OF HAMMI	ER-SAMPLER	140	lb HA	MMER FALL	SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 6	6	/	18	MOIST. CONT. (%)		DESC	CRIPTION C	OF SOIL A	ND ROCK		
	25.0													
	35.0	J1	2	2	3	3	19.8%	(33.00) Red-I	Brown Silty CL	ĀY , Sandy	y With Gra	avel		(M-PL)
		J2 R1	3	REF				(38.00) Red-l	•				 avel 	- — (M-PL)
	40.0							` ´ REC.	60" 100% OUBLE TUBE	17 pieces	;			
	45.0	R2						(43.90) Run 7 REC. NQ D	#2 Drilled from 60" 100% OUBLE TUBE	10 pieces	;			
	50.0	R3										OCK		- — — — — —
and acce pres the i of th	DEC CO!! 4000/ 46 minore													
CON	NTRACT		(CONT	RAC	TOR	C	ME Associates	SHEET 2	OF 3		HOL	E FH-W	/-11a

PSN REGI COU PIN	ON <u>5</u> NTY <u>E</u>	RIE 512.52	<u> </u>	DRNUM			DEPARTMENT GEOTECHNICAL SUBSURFACE	OF NEW YORK OF TRANSPORT ENGINEERING I	BUREAU		LINE STA OFFSET	FH-W-11a	à	
							UNNEL SECTIO (E) 1,078,526.		NAD8	2	SURF. ELEV. DEPTH TO W		EE NOTE	—
ACT	JAL COC	MUIN	AIES		Γ Ε S Τ		05-SEP-2023	DATE F		<u>3</u> 08-SEP		AIEK _S	ELNOIL	
CASII	NG 0. [) . 6	5/8 in		D. 3	_		MER-CASING		lb	HAMMER FALI	-CASING		in
SAME	LER O.) . 2	in	ı I.	D . 1	1 3/8	n WT OF HAM	MER-SAMPLER	140	lb	HAMMER FALI	-SAMPLER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOWS C AMPLER		MOIST. CONT. (%)		DESC	CRIPTION	I OF SOII	L AND ROCK			
	50.0						NQ	DOUBLE TUBE	E, SWIVE	EL "WIRE	ELINE"			
	55.0	R4					RE(n #4 Drilled from C. 60" 100% DOUBLE TUBE	11 piec	es				

BOTTOM OF HOLE AT 58.90 ft

DRILL RIG OPERATOR

- Continuation of adjacent FH-W-11, which was terminated at 30ft due to concrete obstruction. See that log for subsurface information from 0-30ft.
- 2. Autohammer used for SPT at all sampling depths.
- 3. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
08-Sep-23	07:45	35.00	35.00	32.00		NO
08-Sep-23	12:25	58.90	38.90	24.00		NO

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SOIL & ROCK DESCRIPTION Larry Muhammad Sr.

REG GEOTECHNICAL
ENGINEER Todd E. Nelson

DATE APPROVED 28-NOV-2023 REVISION # 2

RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.

SHEET 3 OF 3 HOLE FH-W-11a

A. Linstruth

CONTRACT _____ CONTRACTOR __ CME Associates

SM 282 PSN REGI	NTY E	RIE		ORNI	JM _	21		STATE OF DEPARTMENT OF GEOTECHNICAL EI SUBSURFACE E	NGINEERING I	BUREAU		LINE	FH-W-12	
PIN		512.52		- NO	INICT		_ _ 	UNINE SECTION				OFFSET		
								UNNEL SECTION (E) 1,078,418.460	DATUM	NAD8		SURF. ELEV. DEPTH TO W	. <u>656.25</u> /ATER SE	E NOTE
24011		- 01	- 12 1.		DATE			20-SEP-2023	DATE F	INISH _	21-SEP-2			
CASII SAMF	NG O. [PLER O. [5/8 ir ir		I. D I. D	. 3 . 1		n WT OF HAMME n WT OF HAMME		140		HAMMER FAL HAMMER FAL		in 30 in
	#~W		E	RLOV	VS ON	J								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	6	LER i	n	MOIST. CONT. (%)				I OF SOIL	AND ROCK		
	0.0								IALT Paveme					
		14	3				13.1%	(1.20) Red-B			ayey With	Gravel		. — — _(М-LPL)
		J1	J	2			13.170							
					2									
		J2	3	_			19.7%	(3.50) Red-B	rown Silty SA	ND , Cla	yey With (Gravel		(M-LPL)
	5.0			7	9									
		J3	9				 14.1%		rown Silty CL	AY , San	dy With G	 iravel		(M-PL)
	10.0			10	14									
	10.0				14									
		J4	7				13.5%	(13.50) Red-B	rown Silty CI	ΔV San	dy With G			. – – <u>– – – – – – – – – – – – – – – – –</u>
		רט		6			10.070	(10.00) 1100 2	TOWIT Only C.	.A i , Ca.,	Idy VVIIII C	llavei		(IVI-1 L)
	15.0				7									
										<u>.</u>				
		J5	2	8			17.9%	(18.50) Grey F	ine Sandy S	ILT , Gra	velly			(M-NPL)
	20.0				12									
														· — — — — — .
		J6	1	2			11.8%	(23.50) Grey S	Silty CLAY, S	andy Wit	th Gravel			(M-PL)
	25.0				5									
The	subsurfac	e info	matic	on sh	own h	ere и	vas obta	ained for design	DRILL RIG			B. Fletche		
								hat users may have State. It is	SOIL & RO			Larry Muh	ammad Sr.	
pres	ented in g	good fa	ith. E	By the	natu.	re of	the exp	loration process, f the total volume	ENGINEE	R Todo	d E. Nelsor			
of th	e materia	l at the	site.	Inter	rpolati	ion be	etween	data samples may	DATE APP RESIDENT			2023 RE	VISION # 1	
not i	be indicati	ve of t	ne ac	tual n	nateri	ai en	counter	ea.	STRUCTU				B.I.N	
CON	NTRACT		(CONT	RAC	TOR	C	ME Associates	SHEET 1	OF 3		HOI	LE FH-W	·-12

SM 282 PSN REGI COU	NTY E			ORNI	UM _	21		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	BUREAU		HOLE LINE STA OFFSET	FH-W-12	
PRO.	JECT N	Y RT	33, K					UNNEL SECTION				URF. ELEV	656.25	
ACT	JAL COC	ORDIN	ATES	_	۷) 1,0 DAT I			(E) 1,078,418.460 20-SEP-2023	_ DATUM DATE F	<u>NAD8</u>	3 <u> </u>		VATER SE	E NOTE
CASII			5/8 i i	n	I. C). 3	1/4 i	n WT OF HAMMER	-CASING	_	lb H	AMMER FAL		in
	PLER O. I		iı _		I. C		3/8 i	n WT OF HAMMER	-SAMPLER	140	lb H	AMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		/	LER	in 18	MOIST. CONT. (%)		DESC	RIPTION	OF SOIL	AND ROCK		
25.0														
30.0														(M-PL)
	35.0	J8	3	3	4		16.6%	(33.50) Red-Bro	own Silty CL	AY , Gra	velly			(M-PL)
	40.0	J9	3	3	4		12.7%	(38.50) Grey Si	ity CLAY , F	ine Sand	y With Gra	vel		(M-PL)
	45.0	R1							Drilled from 60" 100% UBLE TUBE	10 Piec	es			
	50.0	R2							Drilled from 60" 100% UBLE TUBE	6 Piece	S			
and acce pres the i	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR B. Fletcher SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 05-DEC-2023 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N.													
CON	NTRACT		(CONT	ΓRAC	TOR	С	ME Associates	SHEET 2	OF 3		НО	LE FH-W	/-12

	1247 ON 5 ITY E 58 ECT N	RIE 512.52 Y RT	2 33, K		NGT	ON E	_ _ _ _ EXPY T	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG STA OFFSET TUNNEL SECTION O (E) 1,078,418.460 DATUM NAD83 HOLE FH-W-12 LINE STA OFFSET ft SURF. ELEV. 656.25 DEPTH TO WATER SEE NOTE										
	LER O. D		ir	า า	I. D) . 3) . 1	1/4		in in									
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	l .		LER i	in 18	MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK										
- - - - - -	55.0	R3						(52.00) Run #3 Drilled from 52'0" To 57'0" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE" (57.00) Run #4 Drilled from 57'0" To 62'0" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"										

- Autohammer used for SPT at all sampling depths.
 Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DAIL	IIIVIL	HOLE	CASING	WATER		END OF DAY
21-Sep-23	09:45	62.00	42.00	4.30		NO

DRILL RIG OPERATOR

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SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL ENGINEER** Todd E. Nelson DATE APPROVED 05-DEC-2023 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-12 SHEET 3 OF 3

B. Fletcher

PSN REGI COUI PIN PRO	NTY E 59 JECT N JAL COC	RIE 512.52 Y RT)RDIN	2 33, K	1)_ 6	INGT	ON 1	 EXPY T 596.450 ART	STATE DEPARTMENT GEOTECHNICA SUBSURFAC TUNNEL SECTIO (E) 1,078,669 12-SEP-2023 in WT OF HAN	T OF TE LENGI E EXP ON .830	DATUM DATE F	BUREAU N LOG NAD83	3 12-SEP-	LINE STA OFFSET SURF. ELEV. DEPTH TO W	IATER SE	E NOTE in
	PLER O. I		i		I. [3/8	in WT OF HAM	MER-S	AMPLER	140	lb	HAMMER FALI	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOV SAMP			MOIST. CONT.			DESC	RIPTION	OF SOIL	AND ROCK		
CA BLC	SER	SAI	0 6	6	12 18	18 24	(%)								
	0.0			12	10			' '		T Paveme					
		J1	17	10	7	9	11.5%	(0.60) Bro	own Gi	ravelly SAI	טא				(M-NPL)
	5.0	J2	6	9	13	18	12.1%	(3.50) Re	ed-Brov	wn Silty CL	AY , San	dy With C	Gravel		(M-PL)
	10.0	J3	7	12	15	20	10.2%	(8.50) Re	ed-Brov	wn Sandy (CLAY, G	ravelly, T	race Sand		——(M-PL)
	15.0	J4	5	7	10	15	13.4%	^{——} (13.50) Re	ed-Brov	wn Silty CL	AY , Fine	Sandy V	Vith Gravel		(M-PL)
	20.0	J5	4	5	6	8	14.2%	^{— _} (18.50) Re	ed-Brov	wn Fine Sa	ndy CLA	Y , Grave	illy ————		—— <u>(</u> M-PL)
	25.0	J6	2	3	4		13.5%	(23.50) Re							(M-PL)
and acce pres the i	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR Gary Richards SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 28-NOV-2023 REVISION # 2 RESIDENT ENGINEER STRUCTURE NAME B.I.N.														
CON	NTRACT		(CONT	RAC	TOR	. <u>C</u>	ME Associates		SHEET 1	OF 3		HOI	_E FH-W	-13

PSN REGI COU	ION 5 NTY E	RIE		ORNI	UM _	23		STATE O DEPARTMENT O GEOTECHNICAL E SUBSURFACE E	NGINEERING I	BUREAU		LINE	FH-W-13	
PIN PRO		512.52 Y RT :		ENS	INGT	ON I	_ EXPY T	UNNEL SECTION			 s	OFFSET URF. ELEV.		
				1)_ 2	N) 1,0)59,5	96.450	(E) 1,078,669.83			3 D	EPTH TO W	ATER SE	E NOTE
CASII	NG O. I). 6 !	5/8 iı		DATI	E S 17 D. 3	_	12-SEP-2023 n WT OF HAMME	DATE F R-CASING	INISH _	12-SEP-2 lb H	<u>023 </u>	L-CASING	in
SAMF	PLER O. I	D . 2	iı	n	I. D). 1	3/8 i	n WT OF HAMME	R-SAMPLER	140	lb H	AMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6	/	in 18	MOIST. CONT. (%)		DESC	CRIPTION	I OF SOIL A	AND ROCK		
	25.0													
	30.0	J7	2	1	2	3	15.1%	(28.50) Red-E	Brown Silty CL	AY , Fine	e Sand With	n Gravel		(M-PL)
	35.0	J8	2	3	3	4	16.8%	(33.50) Red-E	Brown Silty CL	ĀŸ , Gra	velly			(M-PL)
	40.0	J9	1	1	10	5	13.1%	(38.50) Red-E	Brown Silty CL	ĀŸ , Gra	velly			(M-PL)
	45.0	J10	33	33	33	43	7.7%	(43.50) Red-E	1 Drilled from	ī 46'1" To	51'1" RO	 ск		(M-NPL)
	50.0								60" 100% Ouble Tube			NE"		
and acce pres the of th	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have coess to the same information available to the State. It is resented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may of be indicative of the actual material encountered. DRILL RIG OPERATOR Gary Richards SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 28-NOV-2023 REVISION # 2 RESIDENT ENGINEER STRUCTURE NAME B.I.N.													
CO	NTRACT		(CONT	TRAC	TOR	C	ME Associates	SHEET 2	OF 3		HOI	LE FH-W	′-13

PSN REGI COUI PIN PRO. ACTU	ON 5 NTY E 5 JECT N JAL COC	RIE 512.52 Y RT ORDIN D. 6	2 33, K ATES	<u>ENS</u> 6 _(l	N) 1,(DAT I. [ON I	EXPY T 596.450 ART	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG STA OFFSET TUNNEL SECTION O (E) 1,078,669.830 DATUM NAD83 DEPTH TO WATER SEE NOTE 12-SEP-2023 DATE FINISH 12-SEP-2023 IN WT OF HAMMER-CASING ID HAMMER FALL-CASING IN WT OF HAMMER-SAMPLER 140 IB HAMMER FALL-SAMPLER 30	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOV AMP	VS O	N in	MOIST. CONT. (%)	r.	
	50.0	R2						(51.10) Run #2 Drilled from 51'1" To 56'1" ROCK REC. 60" 100% 18 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	60.0	R3						(56.10) Run #3 Drilled from 56'1" To 61'1" ROCK REC. 60" 100% 15 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	65.0	R4						(61.10) Run #4 Drilled from 61'1" To 66'1" ROCK REC. 54" 90% 16 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
								BOTTOM OF HOLE AT 66.10 ft	_

- 1. Autohammer used for SPT at all sampling depths.
- 2. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIL	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
12-Sep-23	11:30	46.10	46.10	42.70		NO
12-Sep-23	13:45	61.10	46.10	36.20		NO
12-Sep-23	16:45	42.00	0.00	24.00		NO

DRILL RIG OPERATOR

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Gary Richards SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL** ENGINEER Todd E. Nelson DATE APPROVED <u>28-NOV-2023</u> REVISION # 2 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-13 SHEET 3 OF 3

PSN REGI COU	NTY E	RIE		ORNI	JM _	41		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING I	BUREAU		LINE	FH-W-14	
PIN		512.52 V RT		FNS	INGT	ON F	_ =XPV T	UNNEL SECTION				OFFSET URF. ELEV		
				1)_ 6	N) 1,0)59,7	60.500	(E) 1,078,480.660	DATUM	NAD8		_	VATER SE	E NOTE
CACII	NC 0.1		E/O :.			E ST		28-SEP-2023	DATE F	inish _	28-SEP-2		LCACING	· ·
CASII	NG O.I PLER O.I		5/8 iı iı		1. E			n WT OF HAMMER n WT OF HAMMER		140		AMMER FAL AMMER FAL	L-CASING L-SAMPLER	in 30 in
.,≠	#~ W	ш	E	BLOV	VS O	N								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6	LER 12	in 18	MOIST. CONT. (%)		DESC	RIPTION	I OF SOIL A	AND ROCK		
	0.0							(0.00) ASPH	ALT Paveme	ent				
		J1	9				 10.4%	(0.90) Brown	Silty SAND,	Gravelly	,			(D-LW)
				7	20									
					39									
		10	_				47.00/			AV -0				
		J2	3	5			17.3%	(3.50) Red-Bro	own Silty CL	.AY, San	iay			(M-PL)
	5.0				7									
		J3	5				14.7%	(8.50) Red-Bro	own Silty CL	AY , San	 idy			(M-PL)
	10.0			6	9			,	-		•			, ,
	10.0				9									
		J4	6	6			14.6%	(13.50) Red-Bro	own Silty CL	.AY , San	ndy With Gr	avel		(M-PL)
	15.0			ľ	8									
		J5	4				14.5%	(18.50)	own Silty Cl	AY San	ndv With Gr	 avel		. – – <u>– – – – – – – – – – – – – – – – –</u>
				6	_		1.070	(10.00) 1104 21	omi, only or	arti , oui	iay mai oi	avoi		(111 1 2)
	20.0				7									
	_	J6	2	2			15.8%	(23.50) Red-Bro	own Silty CL	.AY , San	ndy With Gr	avel		(M-PL)
	25.0			2	3									
T/a a		- : c -						nian al formale nine	DDILL DIC	ODEDAT	TOD.	Duian Flat	-1	
and	estimate	purpos	ses. I	t is m	ade a	availa	ble so t	ained for design hat users may have	DRILL RIG SOIL & RO			Brian Fleto Larry Muh		
								State. It is Noration process,	REG GEOT	ECHNIC	AL	-		
the	informatio	n repre	esent	s only	a sn	nall fr	action o	f the total volume	ENGINEE DATE APP		<u>E. Nelson</u> 05-DEC-2		VISION # 1	
	ne materia be indicat							data samples may ed.	RESIDENT	ENGINE	ER	<u></u> IL		
									STRUCTU	RE NAME	1		B.I.N	
CO	NTRACT		(CONT	RAC	TOR	С	ME Associates	SHEET 1	OF 3		НО	LE FH-W	/-14

SM 282 E 12/ PSN REGION COUNTY	1247 _5 _E	RIE		ORNI	JM _	41		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	BUREAU		LINE	FH-W-14	
PIN PROJECT		512.52 Y RT :		ENS	INGT	ON E	_ EXPY T	UNNEL SECTION			s	OFFSET URF. ELEV		
ACTUAL	coc	RDIN	ATES					(E) 1,078,480.660	DATUM				VATER SE	E NOTE
CASING	O. E) . 6	5/8 ir		DATE I. D	= 51 /). 3		<u>28-SEP-2023</u> in WT OF HAMMER	DATE F -CASING	INISH _	28-SEP-2	<u>023 </u>	L-CASING	in
SAMPLER	О. Г). 2	ir	n	I. D). 1	3/8 i	n WT OF HAMMER	-SAMPLER	140	lb H	AMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft DEPTH ft	SURFACE	SAMPLE NO.	S	6	VS ON LER i	n 18	MOIST. CONT. (%)		DESC	CRIPTION	I OF SOIL A	AND ROCK		
	5.0													
30	0.0	J7	2	3	9		16.1%	own Silty CL	ĀY , San	dy With Gr	avel		(M-PL)	
35	5.0	J8	1	1	3		22.3%	(33.50) Red-Br	own Silty CL	AY , San	dy With Gr	avel		(M-PL)
40	0.0	J9	WOH	27	REF		10.6%		Drilled from 60" 100% UBLE TUBE	11 Piec	es			
45	5.0	R2							Drilled from 60" 100% UBLE TUBE	9 Piece	S			·
-	\Box													
The subs and estir access to presente the inforr of the ma	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR Brian Fletcher SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 05-DEC-2023 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N.													

PSN			В	ORNU	Μ_	41	_		ATE OF NE	RANSPORT				FH-W-14		
REGI							_	SUBSURF					LINE			
COU		RIE					_	SUBSUKE	ACE EXP	LUKATIO	IN LOG	=	STA			
PIN		512.52											OFFSET			
PRO.	IECT <u>N</u>	YRT:	33, K	ENSI	NGT(ON E	XPY T	TUNNEL SEC	TION				SURF. ELE	V. 655.09		
ACTL	JAL COC	ORDIN	ATES	6 <u>(N</u>) 1,0	59,7	<u>60.500</u>	(E) 1,078,4	480.660	DATUM	NAD83	3	DEPTH TO	WATER _S	SEE NOTE	
				D	DATE	E STA	ART _	28-SEP-202	23	DATE F	INISH	28-SEP	-2023			
CASIN	IG 0. I) . 6 5	5/8 ir	n	I. D	. 3	1/4	in WT OF I	HAMMER-C	ASING		lb	HAMMER FA	LL-CASING		in
SAMP	LER O. [) . 2	ir	n	I. D	. 1	3/8	in WT OF I	HAMMER-S	AMPLER	140	lb	HAMMER FA	LL-SAMPLER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOW: SAMPL	ER i	n	MOIST. CONT. (%)			DESC	RIPTION	OF SOIL	. AND ROC	(
일품	SBB	ŝ	ľ/	/		18	(70)									
	50.0	Do	6	12	18	24		(40.00)	D #0 D		40144II T		DOOK			
	50.0	R3						(49.90)	Run #3 D	rilled from)" 100%			RUCK			
ŀ										BLE TUBE			LINE"			
									110 500.		.,	_				
ŀ																
ŀ																
ŀ																
	55.0															
ŀ		R4						(54.90)	Run #4 D				ROCK			
)" 100%						
ŀ									NQ DOU	BLE TUBE	, SWIVE	L "WIRE	LINE"			
ı																
İ																
İ																
				1												

BOTTOM OF HOLE AT 59.90 ft

DRILL RIG OPERATOR

- 1. Autohammer used for SPT at all sampling depths.
- 2. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
28-Sep-23	09:05	39.90	39.90	39.50		NO

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SOIL & ROCK DESCRIPTION Larry Muhammad Sr.

REG GEOTECHNICAL
ENGINEER Todd E. Nelson

DATE APPROVED 05-DEC-2023 REVISION # 1

RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.

SHEET 3 OF 3 HOLE FH-W-14

Brian Fletcher

SM 282 PSN REGI			. В	ORNI	UM _	46				BUREAU		HOLE LINE STA	FH-W-15	
PIN		512.52		ENIC	INICT	ON E	_ =VDV T	UNNEL SECTIO	N			OFFSET SURF. ELEV	ft	
								(E) 1,078,504.1		NAD8			VATER <u>SE</u>	E NOTE
CASII	uc o i	. 61	5/8 i ı		DATI		_	27-SEP-2023 n WT OF HAMN	_ DATE F	INISH _	27-SEP-	<u>2023 </u> HAMMER FAL	LCASING	in
	NG O.I PLER O.I		5/6 II İI		1. D				MER-CASING MER-SAMPLER	140		HAMMER FAL		in 30 in
ωĘ	≠ >;;	ш	E	BLOV	VS OI	N								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 6	6	/	18	MOIST. CONT. (%)		DESC	CRIPTION	OF SOIL	AND ROCK		
	0.0							(0.00) ASI	PHALT Pavemo	ent				
								(1.20) Grav	y-Brown Silty S	ĀND . Gr	avelly Wit	h Pieces Of	Cobble	
		J1	4	4			8.5%	(1.20)	,, -	, , ,	,			(=)
					5									
		J2	5				 13.8%	(3.50) Red	-Brown-Grey S	ilty CLAY	, Sandy			(M-PL)
	 5.0			8	11			, ,	·	•				, ,
	5.0				11									
		13	8				12.7%		-Brown Silty Cl					
		J3	°	10			12.7%	(8.50) Red	-Brown Silly Cl	.AY, Gra	ivelly with	Sand		(D-PW)
	10.0				12									
		J4	4	6			15.9%	(13.50) Red	-Brown Silty Cl	AY , Gra	velly With	Sand		(M-PL)
	15.0				8									
		J5	1				14.2%	(18.50) Red	-Brown Silty Cl	AY , Sar	ndy With G	Gravel		(M-PL)
	20.0			3	5									
		J6	4				 14%		-Brown Silty Cl	AY , Sar	ndy With G	aravel		. – – – (M-PL)
	25.0			5	6			,	,	,	,			,
	25.0				0									
								ained for design hat users may hav	DRILL RIG			Brian Flet Larry Muh		
acce	ess to the	same .	inforn	natior	n avai	ilable	to the S	State. It is	REG GEO	TECHNIC	AL		iaiiiiilau OI.	
the i	informatio	n repre	esent	s only	a sn	nall fr	action o	loration process, f the total volume	DATE ADD		DE. Nelso		VISION # 1	
	e materia be indicat							data samples may ed.	RESIDENT	ENGINE	ER	<u> </u>	. V 101011 # 1	
		•							STRUCTU	RE NAME	Ē		B.I.N	
CON	NTRACT		(CONT	ΓRAC	TOR	CI	ME Asscociates	SHEET 1	OF 3		НО	LE FH-W	-15

PSN REGI COU	NTY E	RIE		ORN	UM _	46		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E	IGINEERING I	BUREAU		LINE	FH-W-15	
PIN PRO		512.52 Y RT		ENS	INGT	ON E	_ EXPY T	UNNEL SECTION				OFFSET SURF. ELEV		
				1)_ 6	N) 1,(059,9	02.790	(E) 1,078,504.110			3 [DEPTH TO V	VATER SE	E NOTE
CASII	NG O. I) . 6	5/8 ir		DAT	E S T/ D. 3		27-SEP-2023 n WT OF HAMMEI	DATE F R-CASING	INISH _	27-SEP-2	<u>2023 </u>	L-CASING	in
	PLER O.		ir		1. [n WT OF HAMMEI		140		IAMMER FAL		30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	VS O	in	MOIST.		DESC	CRIPTION	OF SOIL	AND ROCK		
고림	SBB	'S	0	/	12 18		(%)							
	25.0			·-										
		J7	1				15.6%		rev Siltv CLA	Y . Grav	elly With S	 and		(M-PL)
	20.0			2	3			(2 2 2)	, , ,	, -	,			,
	30.0				3									
		10	4				40.70/			AV -0		<u></u>		·
		J8	1	1			16.7%	(33.50) Red-B	rown Silty CL	.AY , Gra	ivelly with	Sand		(M-PL)
	35.0				2									
		J9	WOH	1			22%	(38.50) Red-B	own Silty CL	AY , Sar	ndy			(M-PL)
	40.0	R1			REF			(39.80) Run #	Drillod from	30'10"	To 44'10"	<u> </u>		
		IXI						REC.	60" 100%	9 Piece	es .			
								NQ DC	OUBLE TUBE	=, SWIVE	EL "WIREL	.INE"		
	45.0													
		R2						(44.80) Run #2 REC.	2 Drilled from 60" 100%			ROCK		
								NQ DO	OUBLE TUBE	E, SWIVE	EL "WIREL	INE"		
	50.0													
	the subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have DRILL RIG OPERATOR Brian Fletcher SOIL & ROCK DESCRIPTION Larry Muhammad Sr.													
acce	ess to the	same	inforn	natioi	n ava	ilable	to the S	State. It is	REG GEOT			_Larry Muh	anınau Sf.	
the i	informatio	n repre	esent	s only	/ a sn	nall fr	action o	loration process, f the total volume			d E. Nelsor		V/ICION # 4	
of th		I at the	site.	Inte	rpolat	tion b	etween	data samples may	DATE APP RESIDENT			<u>:UZS</u> KE	VISION # 1	
1100			40	aui I			Joanner	 -	STRUCTU	RE NAME			B.I.N	
CON	NTRACT		(CONT	ΓRAC	TOR	CI	ME Asscociates	SHEET 2	OF 3		НО	LE FH-W	-15

PSN REGI COUI PIN PRO. ACTU	ON 5 NTY E 5 JECT N JAL COC	RIE 512.52 Y RT : DRDIN.	2 33, K ATES	S <u>(N</u> I	NGT I) 1,0 DATE I. D	ON E			
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	s	/	_ER i		MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK	
	50.0 — — — — — — 55.0	R3						(49.80) Run #3 Drilled from 49'10" To 54'10" ROCK REC. 60" 100% 6 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
		R4						(54.80) Run #4 Drilled from 54'10" To 59'10" ROCK REC. 59" 98.3% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	

BOTTOM OF HOLE AT 59.80 ft

DRILL RIG OPERATOR

- Autohammer used for SPT at all sampling depths.
 Bore hole backfilled with spoils upon completion.
- 3. Lost drill water at bottom of sample R4

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
27-Sep-23	14:10	39.80	39.80	39.30		NO
27-Sep-23	17:30	39.80	59.80	44.00		NO

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SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL ENGINEER** Todd E. Nelson DATE APPROVED 05-DEC-2023 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-15 SHEET 3 OF 3

Brian Fletcher

PSN REGI	NTY E	RIE		ORNI	JM _	22		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	BUREAU		LINE STA	FH-W-16	
	JECT N		33, K					UNNEL SECTION				OFFSET _ SURF. ELEV.	655.6	
ACT	JAL COO	ORDIN	ATES		N) 1,(DAT I			(E) 1,078,697.210 14-SEP-2023	_ DATUM DATE F	NAD8	3 [19-SEP-2		ATER SE	E NOTE
CASII			5/8 ii	n	1. 0) . 3	3 1/4 i	in WT OF HAMMER	-CASING	_	lb F	IAMMER FALL		in
	PLER O. I		iı		I. C		3/8 i	in WT OF HAMMER	-SAMPLER	140	lb F	IAMMER FALL	SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		/	LER 12	in 18	MOIST. CONT. (%)		DESC	RIPTION	OF SOIL	AND ROCK		
	0.0			1-	/ 10				ALT Paveme					
		J1	18				9.5%	(0.30) CONC (1.20) Brown ((M-LPL)
				14	6	4		(,		, -	·) - ;			\···- ,
		J2	3				19.9%	(3.50) Red-Bro	own Silty Cl	AY Gra	velly			(M-PL)
		02		7	7		10.070	(0.00) 1104 211	own only of		vony			(141.1.2)
	5.0				,	11								
		J3	4				13.8%	(8.50) Red-Br	own Silty CL	AY , San	idy			(M-PL)
	10.0			6	7									
						10								
		J4	3	7			13.9%	(13.50) Red-Bro	own Silty CL	AY , San	idy			(M-PL)
	15.0				7									
						8								
		15					40.70/							
		J5	3	4			12.7%	(18.50) Grey-Bi	own Silty C	LAY , Sai	ndy With G	eravel		(M-PL)
	20.0				6	6								
		J6	3				13%		own Silty CL	AY , San	idy With G	 ravel		(M-PL)
	25.0			4	5			,	,	,	,			, ,
							<u> </u>							
and	estimate	purpos	es. I	t is m	ade a	availa	ble so t	ained for design hat users may have	DRILL RIG SOIL & RO			A. Linstrutt Larry Muha	n/B. Fletcher ammad Sr.	
pres	ented in g	good fa	ith. I	By the	e natu	ıre of	the exp	State. It is Noration process,	REG GEOT		AL l E. Nelsor	1		
the i	informatio	n repre	esent	s only	a sn	nall fr	action c	of the total volume data samples may	DATE APP	ROVED	28-NOV-2		/ISION # 1	
	be indicati								RESIDENT STRUCTUR				B.I.N	
CON	NTRACT		(CONT	RAC	TOR	. C	ME Associates	SHEET 1	OF 3		HOL	E FH-W	-16

PSN REGI COU	NTY E	RIE		ORN	UM _	22		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	BUREAU		LINE	FH-W-16	
PIN PRO		512.52 Y RT		ENS	INGT	ONI	_ EXPY T	UNNEL SECTION				OFFSET SURF. ELEV		
					V) 1,0)59,8	74.240	(E) 1,078,697.210	_ DATUM	NAD8	3 0	EPTH TO V	VATER SEI	E NOTE
CASII	NG O. I	D . 6	5/8 i ı	n	DATI			<u>14-SEP-2023</u> n WT OF HAMMER	DATE F -CASING	INISH _	19-SEP-2	<u>2023 </u>	L-CASING	in
	PLER O.			n	1. 0			n WT OF HAMMER		140		AMMER FAL		30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	/	LER 12	in 18	MOIST. CONT. (%)		DESC	RIPTION	I OF SOIL	AND ROCK		
	25.0 		<u> </u>	/ 12	<u>/ 18</u>	<u>/ 24</u> 7								
	30.0	J7	3	5	5	9	13%	(28.50) Red-Bro	own Silty CL	AY , San	idy With G	ravel		(M-PL)
	35.0	J8	3	4	4	4	13.4%	(33.50) Red-Bro	own Silty CL	AY , San	ndy With Gi	ravel		(M-PL)
	40.0	J9	5	3	4	11	7.2%	(38.50) Grey-Bi	rown Sandy	SILT, CI	layey With	Gravel		(W-LPL)
	45.0	R1							Drilled from 60" 100% UBLE TUBE	9 Piece	s			
	50.0	R2							Drilled from 60" 100% UBLE TUBE	10 Piec	es			
and acce pres the of th	estimate ess to the sented in g informatio	purpos same good fa n repre l at the	ses. I inform aith. I esent e site.	t is m nation By the s only Inte	ade a n avai e natu v a sn rpolat	availa lable ire of nall fr ion b	ble so to to the S the exp action o etween	nined for design that users may have State. It is loration process, f the total volume data samples may ed.	REG GEOT	CK DESC ECHNICA R Toda ROVED ENGINE	CRIPTION AL DE E. Nelsor 28-NOV-2 ER	Larry Muh	th/B. Fletcher ammad Sr. VISION # 1	
CO	NTRACT		(CONT	TRAC	TOR	С	ME Associates	SHEET 2	OF 3		НО	LE FH-W	-16

PSN REG COU PIN PRO	ION 5 NTY E 5 JECT N UAL COO	RIE 512.52 IY RT	2 33, K ATES	ENSI	INGT N) 1,0 DATI		 _ _ EXPY T 74.240 ART	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG STA OFFSET ft SURF. ELEV. 655.6	NOTE
	PLER O. I		ıı o,c 1i		1. C				0 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOW AMP	LER	in 18	MOIST. CONT. (%)		
	50.0	R3						(51.60) Run #3 Drilled from 51'7" To 56'7" ROCK REC. 60" 100% 13 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	60.0	R4						(56.60) Run #4 Drilled from 56'7" To 61'7" ROCK REC. 60" 100% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	

BOTTOM OF HOLE AT 61.60 ft

DRILL RIG OPERATOR

1. Autohammer used for SPT at all sampling depths. 2. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
18-Sep-23	10:05	40.50	40.00	21.10		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 28-NOV-2023 REVISION # 1
RESIDENT ENGINEER
STRUCTURE NAME B.I.N.
SHEET 3 OF 3 HOLE FH-W-16

A. Linstruth/B. Fletcher

CONTRACT _____ CONTRACTOR ___ CME Associates

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING Ib HAMMER FALL-CASING SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 Ib HAMMER FALL-SAMPLER BLOWS ON SAMPLER in O	30 in
SAMPLER IN O O O O O O O O O O O O O	(D-NW)
	(D-NW)
J1 13 7 (0.90) Green-Brown Fine SAND, Gravelly Trace Silt	,,
	(M-NPL)
J3 4 5 7 13.6% (8.50) Red-Brown Silty CLAY, Gravelly With Sand And Organics	——(M-PL)
J4 3 5 6 13.7% (13.50) Red-Brown Silty CLAY, Gravelly With Sand And Organics	——(M-PL)
J5 3 4 7 13.8% (18.50) Red-Brown Silty CLAY, Gravelly With Sand And Organics	——(M-PL)
J6 5 13.1% (23.50) Red-Brown Silty CLAY, Gravelly With Sand And Organics	(M-PL)
The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR Brian Flectcher SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 05-DEC-2023 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N. CONTRACT CONTRACTOR CME Associates SHEET 1 OF 3 HOLE FH-W-	

PSN REGI COU	NTY E	RIE	-	ORN	UM _	45		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING I	BUREAU		LINE	FH-W-17	
PIN PRO		512.52 Y RT		ENS	INGT	ON I	_ EXPY T	UNNEL SECTION			s	OFFSET SURF. ELEV		
					N) 1,(060,0	56.640	(E) 1,078,520.770			3 D	EPTH TO V	VATER SE	E NOTE
CASII	NG 0. I) . 6	5/8 iı	n	DAT I. [E S 17 D. 3	_	<u>27-SEP-2023</u> in WT OF HAMMER	DATE F -CASING	INISH _	27-SEP-2	<u>2023 </u>	L-CASING	in
SAME	PLER O. I) . 2	iı	n	1. [). 1	3/8	in WT OF HAMMER	-SAMPLER	140	lb H	AMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 0	6	VS O	in 18	MOIST. CONT. (%)		DESC	CRIPTION	I OF SOIL A	AND ROCK		
	25.0		6	12	<u>/ 18</u>	<u> 24</u>								
		J7	4	5			12.5%	(28.50) Red-Br	own Silty CL	AY , Gra	velly With	Sand And C	Organics	(M-PL)
	30.0				7									
							L							
		J8	2	4	_		25%	(33.50) Red-Br	own Silty CL	.AY , Gra	velly With	Sand And C	Organics	(M-PL)
	35.0				5									
		R1						(37.50) Run #1	Drilled from	37'6" To	5 42'6" RO	OCK		
									60" 100% UBLE TUBE			INE"		
	40.0													
		R2							60" 100%	10 Piec	es			- — — — —
								NQ DC	UBLE TUBE	E, SWIVE	L "WIREL	INE"		
	45.0													
		R3					<u> </u>	(47.50) Run #3	Drilled from	_47'6" _⊤	52'6" RO	0CK		
								` REC.	60" 100% UBLE TUBE	8 Piece	s			
	50.0													
								Lained for design hat users may have	DRILL RIG			Brian Flec		
acce pres	ess to the ented in g	same good fa	inforn aith. L	natioi By the	n ava. e natu	ilable ıre of	to the S the exp	State. It is oloration process,	REG GEOT	TECHNIC.				
of th		l at the	site.	Inte	rpolai	tion b	etween	of the total volume data samples may red.	DATE APP	ROVED	05-DEC-2		VISION#1	
1100	oo maroati	vo or t	40	uui I	, iaioi	.a. 011	Journal	· ·	STRUCTU	RE NAME	<u> </u>		B.I.N	
CON	NTRACT		(CONT	ΓRAC	TOR	C	ME Associates	SHEET 2	OF 3		НО	LE FH-W	'-17

SM 282		70	ъ.		18.4	45			TATE OF N		ATION		<u> </u>	1101 5	ELL\\\/	47		
PSN			- В	ORNI	JIVI _	45	_	GEOTECHN		RANSPORT.					FH-W-	17		
REGI							_			LORATIO			=	LINE				
COU		RIE					_	COBCOIN	/ OL L/	LOIVIIIO	.,	=	= _	STA	-			
PIN		512.52					_						_	FFSET				
								TUNNEL SEC							653.			
ACTL	JAL CO	ORDIN	ATES	1)_ 6	N) 1,0	060,0	<u>56.640</u>	(E) 1,078,	520.770	DATUM			DEP.	TH TO V	VATER	_SE	E NOTE	
					DATI	E ST	ART _	27-SEP-20	23	DATE F	inish _	27-SEF	2023	3				
CASIN	IG O.	D . 6	5/8 i ı	n	I. D). 3	1/4	in WT OF	HAMMER-C	ASING		lb	HAMI	MER FAL	L-CASING	3		in
SAMP	LER O.	D . 2	i	n	I. D). 1	3/8	in WT OF	HAMMER-S	AMPLER	140	lb	HAMI	MER FAL	L-SAMPL	ER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	1	BLOV SAMP	LER		MOIST. CONT. (%)			DESC	CRIPTION	N OF SO	IL AND	O ROCK				
-	50.0 — — — —	R4						(52.50)	REC. 53	Orilled from 3" 88.3% BLE TUBE	9 Piec	es						
-	55.0 — —	-							NQ DOU	DLE TUBE	E, SVVIVE	EL WIRI	CLIINE					

- 1. Autohammer used for SPT at all sampling depths.
- 2. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
27-Sep-23	09:25	37.50	37.50	NONE		NO
27-Sep-23	12:35	35.00	0.00	20.00		NO

BOTTOM OF HOLE AT 57.50 ft

DRILL RIG OPERATOR

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SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 05-DEC-2023 REVISION # 1
RESIDENT ENGINEER
STRUCTURE NAME B.I.N.
SHEET 3 OF 3 HOLE FH-W-17

Brian Flectcher

PSN REGI COU PIN PRO	NTY <u>E</u>	RIE 512.52 Y RT	2 33, K	ENS		ON I	 EXPY 1	STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX UNOFFIC UNNEL SECTION 19-SEP-2023	GINEERING (PLORATIC CIAL LO DATUM	BUREAU DN LOG I G NAD8		HOLE FH-W-18 LINE STA OFFSET ft SURF. ELEV. 652.3 DEPTH TO WATER SE	E NOTE
CASII			5/8 ir	n	1. 0		1/4	in WT OF HAMMER		пиоп _	lb	P-2023 HAMMER FALL-CASING	in
	PLER O. I		ir _		1. [3/8	in WT OF HAMMER	-SAMPLER	140	lb	HAMMER FALL-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	//		MOIST. CONT. (%)		DES	CRIPTION	N OF SO	IL AND ROCK	
	0.0								ALT Pavem				
		J1	6	13	5			(1.20) Red-Bro			ndy With	Gravel	(M-PL)
		10				7				A V - 0			
	5.0	J2	8	11	11			(3.50) Red-Bro	own Siity Ci	₋AY , Sar	ndy vvitn	Gravei	(M-PL)
		J3	3	_			L	(8.50) Red-Bro	own Silty Cl	AY , Sar	 ndy		(M-PL)
	10.0			7	9								
		J4	3	_				(13.50) Red-Bro	own Silty Cl	AY , Gra	velly		(M-PL)
	15.0			5	8								
		J5	3					(18.50) Red-Br	own Silty Cl	AY , Gra	velly		(M-PL)
	20.0			5	7								
		J6	2				L	(23.50) Red-Bro	own Silty Cl	ĀŢ , Gra	velly		(M-PL)
	25.0			3	6				-				•
and acce pres the of th	estimate pess to the sented in ginformatione materia	purpos same good fa n repre l at the	ses. I inforn aith. E esents e site.	t is m nation By the s only Inte	nade a n avai e natu / a sn rpolai	availa ilable ire of nall fr tion b	ble so to to the S the exp action of etween	ained for design that users may have State. It is bloration process, of the total volume data samples may	REG GEO ENGINEE DATE APP	CK DESC FECHNIC R PROVED	CRIPTIO AL L	B. Fletcher L. Muhammad JNOFFICIAL LOG REVISION # 1	
not	be indicati	ive of t	he ac	tual r	nater	ial en	counter	red.	RESIDENT STRUCTU			B.I.N	
CON	NTRACT		(CONT	ΓRAC	TOR	C	ME Associates	SHEET 1	OF 3		HOLE FH-W	/ -18

PSN REGI COUI PIN PRO	NTY E	RIE 512.52 IY RT	2 33, Kl	ENS			 EXPY 1	STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX UNOFFICE TUNNEL SECTION	GINEERING BU PLORATION	JREAU ELOG ELOG	_	LINE STA OFFSET JRF. ELEV. EPTH TO W	ft 652.3 ATER SE	E NOTE
CASII			5/8 in		1. 0) . 3	3 1/4	in WT OF HAMMER	CASING		lb HA	NMMER FALL NMMER FALL		in
CASING BLOWS/ft	DEPTH # 33 BELOW SURFACE O	SAMPLE NO.	S	BLOV AMP	1. [VS O LER	N in	MOIST. CONT. (%)	IN WT OF HAMMER		140 RIPTION C	-	ND ROCK	-SAMPLER	30 in
	25.0	J7	3	5	8			(28.50) Red-Bro	own Silty CLA	Y , Grave	illy — — —			(M-PL)
										illy — — —			(M-PL)	
	40.0	R1							Drilled from 3 60" 100% UBLE TUBE,	7 Pieces				
	45.0	R2							Drilled from 4 60" 100% UBLE TUBE,	7 Pieces				
	R3 (47.50) Run #3 Drilled from 47'6" To 52'6" ROCK REC. 60" 100% 12 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"													
and acce pres the i	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR B. Fletcher SOIL & ROCK DESCRIPTION L. Muhammad REG GEOTECHNICAL ENGINEER DATE APPROVED REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B. Fletcher SOIL & ROCK DESCRIPTION													
CON	NTRACT		c	СОИТ	rac	TOR	C	ME Associates	SHEET 2 O	F 3		HOL	E FH-W	·-18

	E 12/02		_						TATE OF N									
PSN			. В	ORNU	JM _	25	_			RANSPORT INEERING E		=		_	FH-W-	18		
REGI							_					=		INE _				
COU		RIE					_					░ᆍ		STA _				
PIN		512.52					_			IAL LO	G	: —	OFFS	_	ft			
			,		NGT	ON E	EXPY T	UNNEL SE	CTION				SURF. E					
ACT	JAL CO	ORDIN	ATES	3						DATUM	NAD8	3	DEPTH	TO W	ATER	_SE	E NOTE	
					DATE	ST	ART _	19-SEP-20	023	DATE F	inish _	19-SEF	P-2023	_				
CASI	NG O.	D . 6	5/8 i ı	n	I. D	. 3	1/4 i	in WT OF	HAMMER-0	CASING		lb	HAMMER	R FALL	-CASING	ì		in
SAMP	LER O.	D . 2	İ	n	I. D	. 1	3/8 i	in WT OF	HAMMER-S	SAMPLER	140	lb	HAMMER	R FALL	-SAMPL	ER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	6			MOIST. CONT. (%)			DESC	CRIPTION	I OF SOI	IL AND R	оск				
	55.0	R4						(52:40) (52:50)	Run #4 E REC. 5	Drilled Fron Drilled from 9" 98.3% JBLE TUBE	52'6" To 7 Piece	o 57'6" es	ROCK					

- 1. Autohammer used for SPT at all sampling depths.
- 2. Bore hole backfilled with spoils upon completion.

	DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
		I IIVIE	HOLE	CASING	WATER		END OF DAY
	19-Sep-23	12:25	37.50	37.50	37.20		NO
	19-Sep-23	16:35	57.50	37.50	41.00		NO
	19-Sep-23	17:00	36.00	0.00	36.00		NO

BOTTOM OF HOLE AT 57.50 ft

DRILL RIG OPERATOR

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SOIL & ROCK DESCRIPTION L. Muhammad
REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG
DATE APPROVED REVISION # 1
RESIDENT ENGINEER
STRUCTURE NAME B.I.N.
SHEET 3 OF 3 HOLE FH-W-18

B. Fletcher

CONTRACT _____ CONTRACTOR ___ CME Associates

PSN REGI COUI PIN PRO	NTY E	RIE 512.52 Y RT : DRDIN	2 33, K	1)_ 8	INGT	ON E 60,5	 EXPY T 05.450 \RT	STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX UNNEL SECTION (E) 1,078,705.040 20-SEP-2023 n WT OF HAMMER	IGINEERING EXPLORATIO DATUM DATE F	BUREAU N LOG NAD83	3 20-SEP	LINE STA OFFSET SURF. ELEV.	ATER SE	E NOTE
	PLER O. I			n	I. D			n WT OF HAMMER		140		HAMMER FALL		30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOV SAMP	LER i	n 18	MOIST. CONT. (%)		DESC	RIPTION	I OF SOIL	AND ROCK		
	0.0				10				ALT Paveme					
		J1	8	6	7		17.1%	(1.30) Grey-B			avelly Wit	h Sand		(M-PL)
	5.0	J2	5	8	13			(3.50) Red-Br	own Silty CL	AY , Gra	velly With	Sand		(M-PL)
	10.0	J3	9	11	17		12.4%	(8.50) Red-Br	rown Silty CL	AY , Gra	velly With	n Sand		(M-PL)
	15.0	J4	3	4	6		14.2%	(13.50) Grey-B	rown Sandy	CLAY, G	Gravelly			(M-PL)
	20.0	J5	WOH	WOH	2		15.7%	(18.50) Red-Br	rown Sandy (CLAY, G	ravelly			—— (M-PL)
	25.0	J6	1	2	2		16%	(23.50) Red-Br	rown Sandy (CLAY, G	ravelly			(M-PL)
and acce pres the i of th not l	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR Brian Fletcher SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 05-DEC-2023 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N.													
CON	NTRACTIV	1 <u>E A</u> ss	sciate	BONT	RAC	TOR			SHEET 1	OF 3		HOL	E FH-W	-20

PSN REG COU PIN PRO ACTI	ION 5 NTY E 5 JECT N UAL COO	RIE 512.52 IY RT DRDIN D. 6	2 33, K IATES	S <u>(</u> l	SINGT N) 1,0 DAT I. I	TON I 060,5 E STA	EXPY T 505.450 ART 3 1/4 i	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX UNNEL SECTION (E) 1,078,705.040 20-SEP-2023 in WT OF HAMMER	IGINEERING B XPLORATION DATUM DATE FI R-CASING	BUREAU N LOG NAD8:	3 20-SEP- Ib	LINE STA OFFSET SURF. ELEV. DEPTH TO W -2023 HAMMER FALL	644.96 /ATER SE	in
CASING SELOWS/ft MA	DEPTH # 33 BELOW SURFACE O	SAMPLE ON NO.	S	BLOV SAMP	PLER	N in	MOIST.	IN WT OF HAMMER		140		HAMMER FAL	L-SAMPLER	30 in
고목		/S		6	12 18		(%)							
	25.0 — —													
	30.0	J7	3	6	15		12.2%	(28.50)	rown Silty SA	AND , Cla	ayey With	Gravel		(W-LPL)
	35.0	R1							Drilled from 60" 100% OUBLE TUBE	7 Piece	S			
	40.0	R2							Pilled from 60" 100% OUBLE TUBE	8 Piece	S			
	45.0	R3							Drilled from 59" 98.3% DUBLE TUBE	8 Piece	es			
	50.0	R4							Drilled from 59" 98.3% DUBLE TUBE	7 Piece	es			
and acce pres the of th	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is persented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR Brian Fletcher SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 05-DEC-2023 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N.													
COI	NTRACTI	Λ <u>E</u> As:	sciate	©ON™	ΓRΑC	TOR	<u> </u>		SHEET 2 (OF 3		HOI	E FH-W	-20

SM 282	E 12/02							STATE OF N	EW VORK							
PSN	124	72	ВС	DRNUM	26			TMENT OF T		ATION		HOLE	FH-W-2	20		
REGI	ON 5							HNICAL ENG				LINE				
COU	NTY E	RIE					SUBSU	RFACE EXF	PLORATIO	N LOG		STA				
PIN	_5	512.52	2									OFFSET	ft			
PRO.	JECT N	Y RT	33, KI	ENSING	TON I	EXPY T	UNNEL SE	ECTION				SURF. ELEV	/. 644.9	96		
ACT	JAL CO	ORDIN	ATES	(N) 1	,060,5	05.450	(E) 1,078	8,705.040	DATUM	NAD8	3	DEPTH TO	NATER	_SEE	NOTE	
				DA ⁻	TE ST	ART _	20-SEP-2	2023	DATE FI	NISH _	20-SEP	P-2023				
CASI	NG O. I	D . 65	5/8 in	ı I.	D . 3	1/4	n WT O	F HAMMER-0	CASING		lb	HAMMER FA	LL-CASING	}		in
SAME	LER O. I	D. 2	in	ı I.	D . 1	3/8	n WTO	F HAMMER-S	SAMPLER	140	lb	HAMMER FA	LL-SAMPL	ER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOWS (AMPLER		MOIST. CONT. (%)			DESC	RIPTION	I OF SOII	L AND ROCK				
		1		1	1	l										

BOTTOM OF HOLE AT 51.00 ft

- Autohammer used for SPT at all sampling depths.
 Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
20-Sep-23	10:25	30.00	28.50	NONE		NO
20-Sep-23	13:05	29.00	0.00	NONE		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION	Larry Muhammad Sr.
REG GEOTECHNICAL	
ENGINEER Todd E. Nelson	
DATE APPROVED 05-DEC-20	023 REVISION # 1
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N.
SHEET 3 OF 3	HOLE FH-W-20

Brian Fletcher

DRILL RIG OPERATOR ____

CONTRACTME AssciateONTRACTOR

PSN REGI COU	NTY E	RIE		ORNI	JM _	30		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	BUREAU		LINE STA	FH-W-19	
PIN PRO		512.52 Y RT		FNS	INGT	ON I	_ FXPY T	UNNEL SECTION				OFFSET SURF. ELEV.	ft 648.08	
				1)_ 6	N) 1,(060,3	346.930	(E) 1,078,525.560	DATUM	NAD8	3	DEPTH TO W		E NOTE
CASII	NG O. I	D . 6.9	5/8 i ı		DAT			<u>24-OCT-2023</u> in WT OF HAMMER	DATE F CASING	INISH _	24-OCT	-2023 HAMMER FAL	L-CASING	in
	PLER O. I		iı		1. 0			n WT OF HAMMER		140		HAMMER FAL		30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOV AMP	LER	in 18	MOIST. CONT. (%)		DESC	RIPTION	I OF SOIL	. AND ROCK		
	0.0		6	/ 12	<u>/ 18</u>	24		(0.00) _\ ASPHA	ALT Paveme	ent				<i>,</i> ————
								(0.30)_ CONC	RETE Pave	ment				_
		J1	13	9			3%	(0.00) Grey-Bi	own Sandy	GRAVEI	_			, ,
					8	,								
						4	L							
		J2	7	5			15.6%	(3.50) Red-Bro	own Silty CL	AY , Sar	ndy With C	Gravel		(M-PL)
	5.0				8									
						8								
		J3	9				13.1%		own Silty CL	AY , Sar	ndy With C	 Gravel		. – – – – – – (M-PL)
				11	44			,	,	,	,			, ,
	10.0				14	17								
		J4	4	6			14.7%	(13.50) Grey-Bi	own Silty C	LAY , Sa	ndy With	Gravel		(M-PL)
	15.0				7									
						8								
		J5	2				14.8%		own Silty C	LAY , Sa	ndy With	Gravel		(M-PL)
	20.0			5	7				, ,	•	-			` ,
	20.0				′	12								
	<u> </u>						 							
	<u> </u>	J6	7	14			15.2%	(23.50) Grey-Bi	own Silty C	LAY , Gra	avelly			(M-PL)
	25.0				13									
The	subsurfac	ce info	ı rmatio	on sh	u own f	ı nere ı	ı was obta	Lained for design	DRILL RIG	OPERA1	TOR	Al Linstrut	h	
and	estimate	purpos	es. I	t is m	ade a	availa	able so t	hat users may have State. It is	SOIL & RO	CK DES	CRIPTION			
pres	sented in g	good fa	ith. I	By the	e natu	ire of	the exp	oloration process,	REG GEOT			on		
								of the total volume data samples may	DATE APP	ROVED	29-NOV-			
	be indicat								RESIDENT STRUCTUR				B.I.N.	
CO	NTRACT		(CONT	RAC	TOR	c c	ME Associates	SHEET 1			HOI	LE FH-W	/-19

PSN REGI COU PIN PRO ACTI	ION 5 NTY E 5 JECT N JAL COO	RIE 512.52 IY RT ORDIN D. 6	2 33, K ATES	i <u>(</u> 1	INGT N) 1,(DAT I I. [ON E 060,3 E ST/	= = XPY 1 46.930 ART _ 1/4	DEPARTMENT GEOTECHNICAL SUBSURFACE FUNNEL SECTION (E) 1,078,525.5 24-OCT-2023 in WT OF HAMM	EXPLORATION N 560 DATUM DATE FINER-CASING	NAD8	3 24-OCT Ib	STA STA STA SURF. ELEV. DEPTH TO WE -2023	648.08 ATER SE	in
CASING BLOWS/ft	DEPTH # 33 BELOW SURFACE O	SAMPLE 'G	S.	BLOV AMP	LER 12	N in	MOIST.	IN WT OF HAMN	MER-SAMPLER DESC	140 RIPTION		AND ROCK	SAMPLER	30 in
	25.0 30.0 35.0 40.0	J7 R1	4	REF		15		(34.00) Run REC NQ (34.00) Run REC NQ (39.00) Run REC NQ	y-Brown Silty CL #1 Drilled from C. 60" 100% DOUBLE TUBE #2 Drilled from C. 60" 100% DOUBLE TUBE #3 Drilled from C. 60" 100% DOUBLE TUBE	29'0" To 10 Piece, SWIVE 34'0" To 8 Piece, SWIVE 44'0" To 11 Piece	0 39'0" Res ca 39'0" Res ca 39'0" Res ca 44'0" Res ca 49'0" Res	ROCK		(M-PL)
								ВОТ	FTOM OF HOLE	E AT 49.0	00 ft			
and acce pres the of th	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR Al Linstruth SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 29-NOV-2023 RESIDENT ENGINEER STRUCTURE NAME													
CON	NTRACT		c	CONT	RAC	TOR	C	ME Associates	SHEET 2 (OF 3		HOL	E FH-W	/-19

SM 282 PSN REGI	E 12/02 124 ON 5		BOF	RNUM _3	30	DEPARTMEN GEOTECHNIC	TE OF NEW YORK NT OF TRANSPOR' AL ENGINEERING	BUREAU			FH-W-1	9	
COU	_	RIE				SUBSURFA	CE EXPLORATION	ON LOG	=	_	-		
PIN PRO	JECT N		33, KEN	NSINGTO	N EXPY T	TUNNEL SECT	ION			OFFSET _ SURF. ELEV.	ft 648.0	_	
ACTU	JAL CO	ORDIN	ATES	(N) 1,060 DATE \$	0,346.930 Start	(E) 1,078,52 24-OCT-2023			33 24-OCT-	DEPTH TO W	ATER	SEE NOTE	<u> </u>
CASIN	NG O. PLER O.		5/8 in in	I. D. I. D.	3 1/4	in WT OF HA	MMER-CASING MMER-SAMPLER	140	lb I	<u>-2020</u> HAMMER FALL HAMMER FALL			in in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		OWS ON MPLER in	MOIST. CONT. (%)		DES	CRIPTIO	N OF SOIL	AND ROCK			

1. Autohammer used for SPT at all sampling depths. 2. Bore hole backfilled with spoils upon completion.

Z. DOIC HOIC D	ackinica w	iti i spons uj	oon compice	1011.		
DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
24-Oct-23	09:56	29.00	29.00	NONE		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL** ENGINEER Todd E. Nelson DATE APPROVED 29-NOV-2023 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-19 SHEET 3 OF 3

Al Linstruth

DRILL RIG OPERATOR

SM 282 E 12/02 PSN 12472 BORNUM 31 DEPARTMENT OF TRANSPORTATION FH-W-21 REGION 5 GEOTECHNICAL ENGINEERING BUREAU LINE COUNTY ERIE SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION EFIT OF NEW YORK DEPARTMENT OF TRANSPORTATION STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORATION LOG STATE OF NEW YORK SUBSURFACE EXPLORA														
PIN														
				1)_ 6	N) 1,0	060,6	38.840	(E) 1,078,531.760			3	DEPTH TO W		E NOTE
CASII	NG 0. I) . 6	5/8 ir		DATI		_	16-OCT-2023 n WT OF HAMMER	DATE F -CASING	INISH _	16-OCT-	<u>·2023 </u>	L-CASING	in
SAME	PLER O. I) . 2	ir	1	1. 0) . 1	3/8 i	n WT OF HAMMER	-SAMPLER	140	lb l	HAMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK						
	0.0		6	/ 12	⁄ 18	<u>/ 24</u>		(0.00) ASPH.	ALT Paveme	ent				
		J1	16				3.3%	 (0.90)	rown Silty S	ĀND , Gr	avelly			(D-LW)
		01		22			0.070	(* * * *)	,	, -	,			,
					10									
		10	11							AV -0				
		J2	11	6			.9%	(3.50) Red-Br	own Silty CL	.AY , San	nay			(M-PL)
	5.0				10									
		J3	6	12			12.9%	(8.50) Red-Br	own Silty CL	.AY , San	ndy With G	Gravel		(M-PL)
	10.0			12	18									
		J4	4				13.4%	(13.50) Red-Br	own Silty CL	.AY , San	ndy With G	Gravel		(M-PL)
	15.0			6	8									
	10.0													
		J5	3						COVERY					
				5	7			(10.00)						
	20.0				7									
		10					45-40/					<u></u>		
		J6	3	5			15.1%	(23.50) Red-Br	own Silty CL	.AY , San	iay with G	eravel		(M-PL)
	25.0				27									
								ained for design	DRILL RIG			Brian Fleto		
								hat users may have State. It is	I .			Larry Muh	ammad Sr.	
access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume														
of th	e materia	l at the	site.	Inte	rpolat	ion b	etween	data samples may	DATE APP			2023		
not be indicative of the actual material encountered. RESIDENT ENGINEER STRUCTURE NAME B.I.N.												B.I.N		
CONTRACT CONTRACTOR CME Associates										OF 3		НО	LE FH-W	/-21

PSN REGI	124	172 5	_ В	ORNUM	31	_	STATE OF DEPARTMENT OF GEOTECHNICAL EN				HOLE LINE	FH-W-21	
COU		RIE				_	SUBSURFACE EX	(PLORATIO	N LOG	=	STA		
PIN		5512.52									_	ft	
1							FUNNEL SECTION				SURF. ELEV.		
ACTU	JAL CO	ORDIN	ATES			38.840 ART	(E) 1,078,531.760 16-OCT-2023		NAD8		DEPTH TO W	ATER SE	E NOTE
CASIN	ic o	D . 6	5/8 i		_	_	in WT OF HAMMER	DATE F	шиоп _	16-OCT-	<u>-2023 </u>	-CASING	in
_	LER O.						in WT OF HAMMER		140		HAMMER FALL		30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	BLOWS (SAMPLE)		MOIST. CONT. (%)		DESC	RIPTION	I OF SOIL	AND ROCK		
	25.0												
İ		R1				T	(26.00) Run #1				OCK		
		4						60" 100% UBLE TUBE			I INE"		
							NQ DO	UDLE TUDE	i, SVVIVE	L WIRE	LINE		
		+											
		1											
	30.0												
		R2				<u> </u>		Drilled from	31'0" T	36'0" P	OCK		
		1\2						60" 100%			OCK		
		1						UBLE TUBE			LINE"		
		1											
	35.0												
	35.0	-											
		R3				 	(36.00) Run #3	Drilled from	36'0" To	41'0" R	OCK		
								59" 98.3%					
							NQ DO	UBLE TUBE	, SWIVE	L "WIRE	LINE"		
		-											
	40.0												
İ													
		<u> </u>				⊥		-5					
		R4					(41.00) Run #4	Drilled from 60" 100%			OCK		
		-						UBLE TUBE			LINE"		
									,				
		1											
		1											
	45.0												
	45.0	-											
		1											
							BOTTC	M OF HOLE	AT 46.0	00 ft			
			1 1	tohomn	ar ucc	d for CI	OT at all complies des	the					
							PT at all sampling dep spoils upon completion						
							imple at 18.5', no reco						
					·								
							ained for design	DRILL RIG			Brian Fletc		
							that users may have State. It is	SOIL & RO		_	Larry Muha	ammad Sr.	
							ploration process,	REG GEOT ENGINEE			n		
the i	nformati	on repr	esent	s only a s	small fi	raction o	of the total volume	DATE APP					
				Interpol			data samples may	RESIDENT			<u> </u>		
HOU'L	o c muica	uve of l	iie ac	luai IIIdil	riai er	icourite	reu.	STRUCTUE				B.I.N	
								1					_

SHEET 2 OF 3

CONTRACT

CONTRACTOR

CME Associates

HOLE FH-W-21

SM 282	E 12/02						STATE OF NE	EW YORK						
PSN	124	72	BOF	RNUM3	<u> 1</u>	DEPAR'	TMENT OF TR	RANSPORT	ATION		HOLE	FH-W-2	21	
REGI	ON 5						HNICAL ENGI				LINE			
COU	NTY E	RIE				SUBSU	RFACE EXP	LORATIO	N LOG	=	STA			
PIN	5	512.52	2								OFFSET	ft		
PRO.	JECT N	Y RT	33, KEI	NSINGTO	N EXPY T	UNNEL SI	ECTION				SURF. ELEV.	641.7	<u>′1 </u>	
ACTU	JAL CO	ORDIN	ATES	(N) 1,060	,638.840	(E) 1,07	8,531.760	DATUM	NAD8	3	DEPTH TO W	ATER	SEE NOTE	Ξ
				DATE S	START _	16-OCT-2	2023	DATE F	NISH _	16-OCT	-2023			
CASI	NG 0. I	D. 6	5/8 in	I. D.	3 1/4 i	in WTO	F HAMMER-C	ASING		lb	HAMMER FALL	-CASING	;	in
SAMP	LER O. I	D. 2	in	I. D.	1 3/8 i	n WTO	F HAMMER-S	AMPLER	140	lb	HAMMER FALL	-SAMPLI	ER 30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		OWS ON MPLER in	MOIST. CONT. (%)			DESC	RIPTION	N OF SOIL	AND ROCK			

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
16-Oct-23	12:30	20.00	18.50	NONE		NO
16-Oct-23	12:45	26.00	26.00	NONE		NO

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 01-DEC-2023
RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.
SHEET 3 OF 3 HOLE FH-W-21

Brian Fletcher

DRILL RIG OPERATOR

SM 282 PSN REGI			_ B(ORNI	UM _	32		STATE OF DEPARTMENT OF GEOTECHNICAL E SUBSURFACE E	NGINEERING E	BUREAU		HOLE LINE STA	FH-W-22	
PIN		512.52		TNO	'NIOT			TIME OF STICK				OFFSET _		
								UNNEL SECTION (E) 1,078,699.06	DATUM	NAD8		SURF. ELEV. DEPTH TO W.		E NOTE
					DAT	E ST	ART _	02-OCT-2023	DATE F		02-OCT	-2023		
CASI	NG O. I PLER O. I		5/8 iı iı		1. C			n WT OF HAMME		140		HAMMER FALL		in 30 in
							3/0	II WI OI HAMM	K-SAMI LLIX	140	IN	HAMMEN I ALL	-SANII LLIX	30 11
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.			LER 12	in 18	MOIST. CONT. (%)		DESC	RIPTION	N OF SOIL	AND ROCK		
	0.0			1-	, 10			(0.00) ASPH	IALT Paveme	ent				
								(0.70) CON	CRETE Pave	ment _				
		J1	24				2.8%	(1.40) Grey-l	Brown Sandy	GRAVEI	L , Silty			(D-NW)
				34	28									
					20	16								
		J2	9	6			13.3%	(3.50) Grey-l	Brown Silty C	LAY , Sa	ndy			(M-LPL)
	5.0			0	5									
						7								
		J3	5	7			16.2%	(8.50) Red-E	rown Silty CL	AY , Sar	ndy			(M-LPL)
	10.0			'	7									
						10								
							L							
		J4	3	3			13.1%	(13.50) Red-E	rown Silty CL	AY , Gra	velly			(M-LPL)
	15.0			3	5									
						7								
							L							
		J5	7	9			13.7%	(18.50) Red-B	rown Silty CL	.AY , Gra	velly			(M-LPL)
	20.0				6									
						8								
	_													
		10					40.00/				,			
	_	J6	6	7			13.2%	(23.50) Red-E	rown Silty CL	.AY, Gra	ivelly			(M-LPL)
	25.0				9									
The	subsurfa	e info	l rmatic	on sh	L Own h	l here i	Nas oht:	l ained for design	DRILL RIG	OPERA	TOR .	Gary Richa	arde	
and	estimate	purpos	ses. I	t is m	ade a	availa	able so t	hat users may have				Larry Muha		
								State. It is Noration process,	REG GEOT					
the i	informatio	n repre	esent	s only	a sn	nall fr	action c	f the total volume	ENGINEE DATE APP					
	ne materia be indicat							data samples may ed.	RESIDENT	ENGINE	ER			
									STRUCTU	RE NAME	•		B.I.N	
CON	NTRACT		(CONT	ΓRAC	TOR	. C	ME Associates	SHEET 1	OF 3		HOL	E FH-W	·-22

PSN	E 12/02 124	72	ВС	RNUM .	32		DEPART	MENT OF T	NEW YORK TRANSPORT			HOLE	FH-W-22		
REGI						_			GINEERING E (PLORATIO			LINE			_
PIN		RIE 512.52	<u> </u>			_	COBCOR	NOL LX		11200	=	STA OFFSET			-
				ENSING	ONI	_ EXPY ⁻	TUNNEL SE	CTION				SURF. ELEV			-
ACTU	JAL CO	ORDIN	ATES				(E) 1,078		DATUM	NAD8	3	DEPTH TO V	VATER SE	E NOTE	
					_	_	02-OCT-20		DATE F	INISH _	02-OC			_	
CASIN	NG O.I PLER O.I	D . 6 D . 2	5/8 in in). 3			HAMMER-	CASING SAMPLER	140	lb lb	HAMMER FAL			n n
						3/0		I IAWWILLY	OAIIII EEIX	140	110	HAMMENTAL	L-OAMI LLIX	30 1	-
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	SA 0	SLOWS OAMPLER	in 18	MOIST CONT. (%)			DESC	RIPTION	I OF SOI	L AND ROCK			
	25.0	R1			16		(25.40)	Run #1	Drilled from	25'5" To	30'5" F	ROCK			=
							(/	REC. 6	30" 100%	13 Piec	es				
								NQ DO	UBLE TUBE	:, SWIVE	L "WIRE	ELINE"			
	30.0														
	00.0					L	L								
		R2					(30.40)		Drilled from 50" 100%			ROCK			
									UBLE TUBE			ELINE"			
	35.0														
		R3					$-\frac{1}{(35.40)}$	Run #3	Drilled from	35'5" To	5 40'5" F	ROCK			-
							, ,		57" 95%						
								NQ DO	UBLE TUBE	, SWIVE	L "WIRI	=LINE"			
	40.0														
						L	L	-=							_
		R4					(40.40)	Run #4	Drilled from 58" 96.7%	40'5" To	o 45'5" i es	ROCK			
									UBLE TUBE			ELINE"			
	45.0														
		I					1	вотто	M OF HOLE	E AT 45.4	10 ft				\dashv
			1. Aut	ohammei	used	d for SI	PT at all sam	olina den	ths.						
			2. Bor	e hole ba	ckfille	ed with	spoils upon								
		,	3. San	npler refu	sal a	t 25.4'.									
															_
							tained for des that users ma		DRILL RIG			Gary Rich			-
							tnat users ma State. It is	y nave	SOIL & RO			N <u>Larry Muh</u>	ammad Sr.		-
pres	ented in g	good fa	aith. B	By the nati	ıre of	the exp	ploration prod		ENGINEE			son			
							of the total vo n data sample		DATE APP	ROVED	01-DEC				_
	be indicat							ر ساد	RESIDENT						_
									STRUCTUE	KE NAME	:		B.I.N		-1

SHEET 2 OF 3

CONTRACT

CONTRACTOR

CME Associates

HOLE FH-W-22

SM 282	E 12/02						STATE OF N	IEW YORK			<u>-</u> _			
PSN	12	472	_ BOF	RNUM3	32		ARTMENT OF T				HOLE _	FH-W-22	2	
REGI	ON	5					ECHNICAL ENG				LINE			
COU	YTV	ERIE				SUBS	SURFACE EXI	PLORATIO	N LOG	=	STA			
PIN	_	5512.5	2							_	OFFSET	ft		
PRO.	JECT	NY RT	33, KEI	NSINGTO	N EXPY 1	UNNEL	SECTION				SURF. ELEV.	639.44	1	
ACTU	JAL C	OORDIN	IATES	(N) 1,060	0,816.900	(E) 1,	078,699.060	DATUM	NAD8	3	DEPTH TO WA	ATER _	SEE NOTE	
				DATE S	START _	02-OC	T-2023	DATE F	INISH _	02-OC1	T-2023			
CASI	NG C	. D . 6	5/8 in	I. D.	3 1/4	in W	OF HAMMER-	CASING		lb	HAMMER FALL	-CASING		in
SAMP	LER C	. D . 2	in	I. D.	1 3/8	in W	FOF HAMMER-S	SAMPLER	140	lb	HAMMER FALL	-SAMPLE	R 30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	⊟ ⊑ંં	1	OWS ON MPLER in	MOIST. CONT. (%)			DESC	CRIPTION	N OF SOI	L AND ROCK			

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
03-Oct-23	09:00	45.40	25.40	28.70		NO

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 01-DEC-2023
RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.
SHEET 3 OF 3
HOLE FH-W-22

Gary Richards

DRILL RIG OPERATOR

PSN 282 PSN REGI COUI	124 ON 5 NTY E	RIE		ORNI	UM _	33		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	BUREAU		LINE _	FH-W-24	
PIN PRO		512.52 Y RT :		ENS	INGT	ON I	_ EXPY T	UNNEL SECTION				OFFSET _ SURF. ELEV.		
				1)_ 6	V) 1,0	061,0	18.380	(E) 1,078,533.780	DATUM	NAD8	3 [DEPTH TO W		E NOTE
CASIN	NG 0. I) . 65	5/8 i ı		DATI			12-OCT-2023 in WT OF HAMMER	DATE F CASING	INISH _	13-OCT-2	<u>2023 </u> HAMMER FALL	-CASING	in
	LER O. I		iı		1. 0			n WT OF HAMMER		140		HAMMER FALL		30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	s 0	6	VS OI LER	in 18	MOIST. CONT. (%)		DESC	RIPTION	N OF SOIL	AND ROCK		
	0.0		6	/ 12	/ 18	<u>/ 24</u>		(0.00) ASPHA	ALT Paveme	ent				
-								(0.70) CONC	RETE Pave	ment				. — — — — —
-								(2.00) Red-Bro	own Silty CL	AY , Sar	 ndy			. – – (D-PW)
ŀ														
-	5.0	J1	3	4	4		18%							
-						5								
-														
-		J2	4				15.6%	(8.50) Red-Bro	own Silty Cl	AV Sar				<u></u>
-	 10.0	JZ	-	6	7		13.0 %	(0.50) Ned-Bit	JWII GIILY CL	AT, Sai	idy			(IVI-F L)
						12								
-														
-		10	4				47.F0/		Silt O					· (M-DT)
-	 15.0	J3	1	2	2		17.5%	(13.50) Red-Bro	own Slity CL	AY, Sar	ıay			(M-PL)
						4								
-														
-														
-	 20.0	J4	1	2	4		13.9%	(18.50) Red-Gr	ey Silty CLA	Y , Sand	ly			(W-PL)
-	20.0				4	5								
-	_	D4							Deille d E	701411 =		70K		. — — — — —
-	 25.0	R1						` REC.	59" 98.3% UBLE TUBE	8 Piece	es			
and acce pres the i of th	estimate pess to the ented in gented	purpos same good fa n repre I at the	es. I inforn ith. I esent: e site.	t is m natior By the s only Inte	ade a n avai e natu v a sn rpolat	availa ilable ire of nall fr tion b	ble so to to the so the expression of etween	ained for design hat users may have State. It is oloration process, of the total volume data samples may ed.	REG GEOT	CK DESC ECHNIC R Toda ROVED ENGINE	CRIPTION AL d E. Nelsor 01-DEC-2			
CON	ITRACT			CONT	ΓRΔC	TOP		CME Assciates	SHEET 1			HOI	E FH-W	-24

PSN REG	ION 5	72 5 RIE 5512.5		RNUM	_ 33		GEOTE	STATE O ARTMENT O ECHNICAL E BURFACE E	NGINEERIN	RTATION G BUREAU		HOLE FH-	W-24
1				NSING	TON	EXPY	ΓUNNEL	SECTION				SURF. ELEV. 63	37.08
ACT	JAL CO	ORDIN	ATES		,061,0 TE ST			<u>078,533.78</u> T-2023		M <u>Nad</u> Finish	83 13-OCT-	DEPTH TO WATE	R SEE NOTE
CASII	NG O.	D. 6	5/8 in			_		Γ OF HAMME		. 1 1141511		<u>-2023</u> HAMMER FALL-CAS	SING in
SAME	PLER O.	D . 2	in	I.	D. 1	1 3/8	in W	OF HAMME	R-SAMPLER	140	lb	HAMMER FALL-SAN	IPLER 30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	SAI	OWS C MPLER 12	2 in	MOIST. CONT. (%)			DE	SCRIPTIO	N OF SOIL	AND ROCK	
	25.0												
		1											
		$\frac{1}{2}$											
						L							
		R2					(28.	10) Run # REC.	2 Drilled fro 59" 98.3			OCK	
	30.0							NQ D	OUBLE TU	BE, SWIV	EL "WIRE	LINE"	
	00.0	1											
		1											
		R3				†	(33.	10) Run#				OCK	
		1						_	60" 1009 OUBLE TU			LINE"	
	35.0	-											
		1											
		R4				 	$-\frac{1}{(38.)}$	10) Run#	4 Drilled fro	om 38'1"	To 43'1" R	OCK	
		-					,		60" 1009 OUBLE TU			INF"	
	40.0							NQ D	OODLL 10	DL, OVVIV	LL WIIKE		
		1											
		1											
								R∩TT	OM OF HO) Ε ΔΤ / /2	10 ft		
			2. Lost o	drill wa	ter at	32.8'		sampling de	epths.				
			DAT	re	TIM	1F		DEPTH ft			ESIAN HEIGHT	FILLED WITH WATER AT	
			5,(1				HOLE	CASING	WATER		GROUND	END OF DAY	
			12-Oc	t-23	16:	15	23.10	23.10	22.90			NO	
			13-Oc	t-23	08:	15	23.10	23.10	10.20			NO	
			13-Oc	t-23	11:	45	43.10	23.10	26.10			NO	
and acce pres the of th	ess to the sented in information	purpos same good fa on repr	ses. It is informa aith. By esents o e site. Ir	s made tion ava the nat only a so nterpola	availa ailable ture of mall fi ation b	able so a to the f the exp raction of petween	that users State. It oloration of the tota data sar	s may have is	SOIL & F REG GE ENGIN DATE AI RESIDEI	OTECHNIC EER Too PPROVED NT ENGIN	SCRIPTION CAL dd E. Nelso 01-DEC- EER	n 2023	
									STRUCT	URE NAM	IE 		N
CO	NTRACT		co	NTRA	CTOR	R(CME Ass	ciates	SHEET	2 OF 2		HOLE	FH-W-24

PSN REGI	NTY E	RIE	-	ORN	UM _	35		STATE O DEPARTMENT O GEOTECHNICAL E SUBSURFACE E	NGINEERING	BUREAU		LINE STA	FH-W-25	
PIN PRO		512.52 Y RT		FNS	INGT	ON	 FXPY T	UNNEL SECTION				OFFSET SURF. ELEV.		
								(E) 1,078,699.66				DEPTH TO W		E NOTE
CACII	NC 0.1		E/O :.	_	DAT			03-OCT-2023	DATE F	INISH _	03-OCT		CASING	i.m.
CASI	NG O.I PLER O.I		5/8 iı iı		1. E			in WT OF HAMME in WT OF HAMME		140		HAMMER FALI HAMMER FALI		in 30 in
=	ш _ بي		F	BLOV	vs o	N								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6	LER 12	in 18	MOIST. CONT. (%)		DESC	CRIPTION	N OF SOIL	AND ROCK		
	0.0								HALT Pavemo					
		J1	9				3.3%	(1.30) Grey-	Brown Sandy	GRAVEI	L , Silty			(D-LW)
				8	_									
					7	6								
		J2	4	_			2.2%	(3.50) Grey-	Brown Sandy	GRAVEI	L , Silty			(D-LW)
	5.0			3	3									
						2								
		J3	7				15.5%	(8.50) Red-E	Prown Silty CI	AV Sar	ady With C			
	_	JJ	′	8			13.5%	(6.50) Reu-E	orowir Silty Cl	-AT, Sai	idy with C	Jiavei		(IVI-FL)
	10.0				10	11								
						''								
		J4	3	_			17.4%	(13.50) Red-E	Brown Silty Cl	AY , Sar	ndy With C	Gravel		(M-PL)
	15.0			3	3									
						4								
		J5	2				18.8%	(18.50) Red-E	Proven Silty CI		adv Mith C			(M-PL)
	_	33		2			10.0%	(16.50) Red-E	orowir Silty Cl	-AT, Sai	idy with C	Jiavei		(IVI-FL)
	20.0				4	5								
						ਁ								
	<u> </u>	R1					 	(22.00) Run #				OCK		
									60" 100% OUBLE TUBI			LINE"		
	25.0													
			<u> </u>	<u> </u>	<u> </u>	<u> </u>		ation and the second	DD:: -:-	0055	TOP	0. 5::		
and	estimate	purpos	ses. I	t is m	ade a	availa	able so ti	ained for design hat users may have	DRILL RIG			Gary Richa Larry Muha		
								State. It is Moration process,	REG GEO	TECHNIC	AL			
the i	informatio	n repre	esent	s only	a sn	nall fr	action o	f the total volume	DATE APP		d E. Nelso 01-DEC-			
	ie materia be indicat							data samples may ed.	RESIDENT	ENGINE	ER	_ 		
									STRUCTU	RE NAME	•		B.I.N	
CON	NTRACT		(CONT	rac	TOR	C	ME Associates	SHEET 1	OF 2		HOI	LE FH-W	/-25

SAMPLER in SAMPLER in DESCRIPTION OF SOIL AND ROCK DES	PSN REGI COUI PIN PRO. ACTU	ON 5 NTY E 5 JECT N JAL COC	RIE 512.52 IY RT DRDIN D. 6	2 33, K IATES	(ENS	N) 1,0 DATE I. D	ON I	EXPY T 227.390 ART 3 1/4 i	DEPARTM GEOTECHN SUBSURF TUNNEL SEC (E) 1,078,0 03-OCT-20 in WT OF	IICAL ENG FACE EXF CTION 699.660	PLORATIO DATUM DATE F CASING	BUREAU IN LOG NAD8		LI	NE TA SETf SLEV TO WAT	ER S	EE NO1	E in
R2 (27.00) Run #2 Drilled from 27'0" To 32'0" ROCK REC. 58" 96.7% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	6	LER i	n 18	CONT. (%)			DESC	CRIPTION	N OF SO	IL AND RO	OCK			
R3 (32.00) Run #3 Drilled from 32'0" To 37'0" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE" 35.0 R4 (37.00) Run #4 Drilled from 37'0" To 42'0" ROCK REC. 60" 100% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE" 40.0		30.0	R3						(32.00)	Run #3 E REC. 66 NQ DOU	B" 96.7% BLE TUBE Orilled from BLE TUBE Orilled from 0" 100% BLE TUBE	9 Piece E, SWIVE 32'0" Ti 10 Piece E, SWIVE 7 Piece E, SWIVE	es EL "WIR o 37'0" es EL "WIR o 42'0" es EL "WIR	ELINE" ROCK ELINE"				
BOTTOM OF HOLE AT 42.00 ft				•						BOTTON	OF HOLE	E AT 42.0	00 ft					

1. Autohammer used for SPT at all sampling depths.

2. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
04-Oct-23	08:10	22.00	22.00	21.00		NO
04-Oct-23	11:45	42.00	22.00	28.90		NO

DRILL RIG OPERATOR

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 01-DEC-2023
RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.
SHEET 2 OF 2 HOLE FH-W-25

Gary Richards

SM 282 PSN REGI			. В	ORNI	UM _	34		DEPARTM GEOTECHN	ENT OF T	NEW YORK FRANSPORT SINEERING I PLORATIO	BUREAU		HOLE LINE STA	FH-W-26	
PIN	5	512.52					_					===	OFFSET	ft	
								UNNEL SEC (E) 1,078,5		DATUM	NAD8		SURF. ELEV	'. <u>635.62</u> V ater se	E NOTE
ACTO	JAL COC	MUIN	AIE		DAT			12-OCT-202		_ DATON		12-OCT-		VAIER SE	ENOIE
CASI			5/8 i i						HAMMER-				HAMMER FAL		in
SAMP	PLER O. I) . 2	iı	n	1. 0) . 1	3/8	in WT OF I	HAMMER-	SAMPLER	140	lb i	HAMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 0	/	LER 12	in 18	MOIST. CONT. (%)			DESC	CRIPTION	N OF SOIL	AND ROCK		
	0.0		6	12	18	24		(0.00)	ASPHA	LT Paveme	ent				
								(3.3.3)							
								(1.40)	CONC	RETE Pave	ment				
								(2.00)	Red-Bro	own-Grey S	andy GR	AVEL			(M-NPL)
		J1	3				21.2%								
	5.0			4	7										
	3.0				ļ <i>'</i>	9									
		J2	3	_			18.9%	(8.50)	Red-Bro	own Silty CL	.AY , Sar	ndy			(M-PL)
	10.0			5	5										
						7									
		J3	2	2			21.8%	(13.50)	Red-Bro	own Silty CL	.AY , Gra	velly			(M-PL)
	15.0			-	3										
						3									
		J4 R1	REF				15.2%		Red-Bro	own Silty CL Drilled from	.AY , Sar .78'10"	ndy With G	FOCK		_
	20.0							()	REC. 6	50" 100%	10 Pied	es			
									NQ DOI	JBLE TUBE	E, SWIVE	L "WIREL	INE"		
	_	R2					T	(23.80)		Drilled from 59" 98.3%			ROCK		
	25.0								NEC. (90.570	/ FIECE	5 5			
The	subsurfac	ce info	rmatio	on sh	own h	nere i	vas obt	Lained for desig	gn	DRILL RIG	OPERAT	ΓOR	Gary Rich	ards	
and	estimate	purpos	ses. I	t is m	ade a	availa	able so t	hat users may	- 1	SOIL & RO	CK DES	CRIPTION	Larry Muh		
								State. It is ploration proce	ess,	REG GEOT		AL d E. Nelsoi	n		
								of the total volu data samples		DATE APP					
	be indicat								illay	RESIDENT			-		
										STRUCTU	KE NAME	=		B.I.N	
CON	NTRACT		(CONT	TRAC	TOR	C	ME Associate	es	SHEET 1	OF 2		НО	LE FH-W	/-26

PSN REGI COUI PIN PRO. ACTU	ON 5 NTY E 5 JECT N JAL COO	RIE 512.52 IY RT DRDIN D. 6	2 33, K ATE \$	ENS 6 _(1	N) 1,0 DATI	ON I 061,4 E STA	= EXPY T 18.500 ART _	DEPARTM GEOTECHN SUBSURI TUNNEL SEC (E) 1,078, 12-OCT-20 in WT OF	TACE EXP CTION 543.960	DATUM DATE FI	BUREAU N LOG NAD8	3 12-OC1 Ib	STA OFFSET SURF. ELE DEPTH TO T-2023 HAMMER FA	١	EE NOTE	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6	VS OI LER	in 18	MOIST. CONT. (%)			DESC	RIPTION	I OF SOI	L AND ROC	K		
	25.0 	R3						<u>(28.80)</u>	Run #3 D REC. 60	orilled from 100% BLE TUBE	28'10" - 10 Piec	Го 33'10' es	" ROCK			
	35.0	R4						(33.80)	REC. 60 NQ DOU	orilled from 100% BLE TUBE	5 Piece S, SWIVE	s EL "WIRE				

- Autohammer used for SPT at all sampling depths.
 Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
12-Oct-23	09:50	18.80	18.50	NONE		NO

DRILL RIG OPERATOR

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL** ENGINEER Todd E. Nelson DATE APPROVED 01-DEC-2023 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-26 SHEET 2 OF 2

Gary Richards

SM 282 PSN REGI			. В	ORN	UM _	42		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING I	BUREAU		HOLE LINE STA	FH-W-28	
PIN		KIE 512.52	2				_		0		=	OFFSET	ft	
								UNNEL SECTION				SURF. ELEV.		
ACT	JAL CO	ORDIN	ATES	<u> </u>	N) 1,(DAT			(E) 1,078,700.050 05-OCT-2023	_ DATUM DATE F		<u>3 </u>	DEPTH TO W -2023	ATER SE	E NOTE
CASI	NG 0. I	D . 6	5/8 i i	n			_	n WT OF HAMMER				HAMMER FALI	L-CASING	in
SAMF	PLER O. I	D . 2	i	n	1. [) . 1	3/8 i	n WT OF HAMMER	-SAMPLER	140	lb	HAMMER FALI	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOV SAMP		in	MOIST. CONT. (%)		DESC	CRIPTION	I OF SOIL	. AND ROCK		
	0.0		6	12	<u>/ 18</u>	24		(0.00) _\ ASPH	ALT Paveme	ent				
									RETE Pave					_ /
		J1	5				4.2%	(1.60)	rown Gravel	Īv SĀND	. Siltv			(D-LW)
				8				(1.00) 0.0, 2		.,	,,			(2 2)
					8	6								
		J2	7			ľ	19.7%	(3.60) Red-Br	own Silty CL	ĀŢ , Sar	ndy With C	Drganics		(M-PL)
	5.0			4	3									
	0.0				3	3								
		J3	2	3			19.4%	(8.50) Red-Br	own Silty CL	AY , Sar	ndy With C	Gravel		(M-PL)
	10.0			3	3									
						4								
							L							
		J4	2	2			16.8%	(13.50) Red-Br	own Silty CL	.AY , Gra	velly			(M-PL)
	15.0			_	2									
						4								
		R1					T	(17.30) Run #1	Drilled from	17'4" To	0 22'4" R	OCK		
									60" 100% UBLE TUBE			LINE"		
	20.0													
							L							
		R2						(22.30) Run #2 RFC	Drilled from 60" 100%			OCK		
									UBLE TUBE			LINE"		
	25.0													
The	subsurfac	ce info	rmatio	on sh	own I	nere i	vas obta	ained for design	DRILL RIG	OPERA	TOR	Gary Richa	ards	
								hat users may have State. It is				Larry Muha	ammad Sr.	
pres	ented in g	good fa	ith. I	By the	e natu	ıre ot	the exp	loration process,	REG GEOT		AL d E. Nelso	on		
								f the total volume data samples may	DATE APP	ROVED	05-DEC-			
	be indicat								RESIDENT STRUCTUI				DIN	
									SIRUCIU	VE INVINE	-		B.I.N	
CON	NTRACT		(CONT	TRAC	TOR	C	ME Associates	SHEET 1	OF 2		HOI	E FH-W	/-28

PSN			_ В	ORNU	JM _	42	_	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU HOLE FH-W-28 LINE	
REGI	_						_	CURCUREACE EVELOPATION LOC	—
COU	_	RIE					_	- 31A	
PIN	_	512.52					_	OFFSETft	
PRO.	JECT _!	<u>IY RT</u>	33, K	ENSI	NGT	ON E	EXPY 1	TUNNEL SECTION SURF. ELEV. 634.94	
ACTU	JAL CO	ORDIN	ATES	6 <u>(N</u>	I) 1,C)61 <u>,5</u>	88.910	<u>(E) 1,078,700.050</u> DATUM <u>NAD83</u> DEPTH TO WATER <u>SEE NOTE</u>	
					DATI	E ST	art _	<u>05-OCT-2023</u> DATE FINISH <u>05-OCT-2023</u>	
CASIN	NG O.	D . 6	5/8 i ı	n	I. D) . 3	1/4	in WT OF HAMMER-CASING Ib HAMMER FALL-CASING	in
SAMP	LER O.	D . 2	ir	n	I. D). 1	3/8	in WT OF HAMMER-SAMPLER 140 Ib HAMMER FALL-SAMPLER 30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOW BAMPL	ER i	in 18	MOIST. CONT. (%)		
	25.0 	-							
		R3						(27.30) Run #3 Drilled from 27'4" To 29'0" ROCK REC. 20.4" 100% 10 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	

- BOTTOM OF HOLE AT 29.00 ft
- Autohammer used for SPT at all sampling depths.
 Bore hole backfilled with spoils upon completion.
- 3. Core barrel failure during third rock core run.
- 4 Hole terminated at 29' due to core barrel failure.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
04-Oct-23	16:10	17.30	17.30	NONE		NO
05-Oct-23	08:00	17.30	17.30	NONE		NO
05-Oct-23	13:30	30.00	17.30	24.10		NO
05-Oct-23	14:00	16.50	17.30	14.90		NO

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL** ENGINEER Todd E. Nelson DATE APPROVED 05-DEC-2023 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-28 SHEET 2 OF 2

Gary Richards

DRILL RIG OPERATOR

CONTRACT CONTRACTOR

CME Associates

PSN REGI COUI PIN PRO	NTY E 5 JECT N JAL COO	RIE 512.52 Y RT : DRDIN	2 33, K	1)_ 6	INGT N) 1,(ON E 061,7 E ST/		DEPARTM GEOTECHN SUBSURF UNNEL SEC (E) 1,078,5 19-OCT-202	IENT OF TICAL ENGINEERS TACE EXECTION 538.370	NEW YORK TRANSPORT GINEERING I (PLORATIO DATUM DATE F	BUREAU IN LOG NAD83	3 19-OCT-	LINE STA OFFSET SURF. ELEV DEPTH TO W	VATER SE	EE NOTE
SAMP	PLER O. I) . 2	iı E	n BLOV	1. E VS OI	D. 1	3/8 i			-SAMPLER	140		HAMMER FAL		30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 6	6 12	12	in 18 24	MOIST. CONT. (%)			DESC	CRIPTION	OF SOIL	AND ROCK		
	0.0		Ĭ					(0.00)	ASPHA	ALT Paveme	ent				
		J1	11	6	3		3.2%	(1.00)	Grey-Br	own Sandy	GRAVEL	, Silty			(D-NW)
	5.0	J2	4	6	9		18.1%	(3.50)	Red-Bro	own-Grey S	ilty CLAY	, Sandy			(M-PL)
	10.0	J3	5	6	8		16%	(8.50)	Red-Bro	own Silty CL	AY , Sand	dy			(M-PL)
	15.0	J4	2	3	4		17.4%	(13.50)	Red-Bro	own Silty CL	ĀŸ , San	dy			(M-PL)
	20.0	J5	2	4	7		16.4%		Red-Bro	own Silty CL	ĀŸ , Sand	dy With C	Gravel		(M-PL)
	25.0	J6	16	16	20		11.4%	(23.50)	Brown-0	Grey Sandy	SILT , Gr	avelly			(W-LPL)
and acce pres the i of th	estimate pess to the sented in ginformation	purpos same good fa n repre l at the	ses. I inform aith. I esent: e site.	t is m natior By the s only Inte	ade a n avai e natu r a sn rpolat	availa ilable ire of nall fra tion b	ble so to to the S the exp action o etween	ained for designat users may State. It is State to is State to is State is aimples I ata samples ed.	y have ess, ume	DRILL RIG SOIL & RO REG GEOT ENGINEE DATE APP RESIDENT STRUCTUI	CK DESC FECHNICA R Todd ROVED ENGINEE	RIPTION AL E. Nelso 01-DEC- ER	on 2023	ammad Sr. B.I.N.	
CON	NTRACT		(CONT	RAC	TOR	C	ME Asscoiate	es	SHEET 1	OF 3		HOI	LE FH-W	/-29

PSN 282 E 7 PSN _ REGIOI COUNT PIN PROJE ACTUA	1247 N 5 Y E CT N	RIE 512.52 Y RT	2 33, KI	(N	NGT	ON E	 _ _ XPY 00.950	GE SU TUNN O (E	EPARTN OTECHN JBSURI	NICAL E FACE E CTION 538.37	F TRAI ENGINE EXPLO	NSPORT ERING	BUREAU ON LOG NAC	083		OF SURF	HOLE LINE STA FSET ELEV	ft_ /6	34.61		NOTE	
CASING			5/8 in	1	I. D.	. 3	1/4	in	WT OF	HAMME	R-CAS	ING		lb)	HAMM	ER FAL					in
	BELOW SURFACE	SAMPLE NO.	S	BLOW AMPL	ER i	l n 18	MOIST CONT (%)		WI OF	HAMME	-K-SAN		140 CRIPTIO	Ib ON OF			ER FAL		MPLER	R 30)	in
	25.0	R1						((25.60)	REC.	60"	100%	1 25'7" 11 Pi E, SWI	eces								
	35.0	R2						+-((30.60)	REC.	60"	100%	1 30'7" 7 Pie E, SWI\	ces								- — —
	40.0	R3						+-((35.60)	REC.	60"	100%	1 35'7" 6 Pie E, SWI	ces								
	45.0	R4						+-((40.60)	REC.	60"	100%	1 40'7" 9 Pie E, SWI	ces								
,				oham	mer i	used	l for Si	PT at	all sam			F HOL	E AT 4	5.60 ft								

2. Bore hole backfilled with spoils upon completion.

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 01-DEC-2023
RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.
SHEET 2 OF 3 HOLE FH-W-29

Beau Fletcher

DRILL RIG OPERATOR

SM 282	E 12/02	2						STATE OF N	EW YORK			_			
PSN	1	2472	<u>. </u>	BOI	RNUM	40		DEPARTMENT OF TR			_	HOLE _	FH-W-2	29	
REGI	ON	5						GEOTECHNICAL ENGI				LINE			
COU	NTY	ER	ΙE					SUBSURFACE EXP	LORATIO	N LOG	=	STA			
PIN		551	2.52									OFFSET	ft		
PRO.	JECT	NY	RT 3	3, KE	NSINGTO	N EXP	Y TU	JNNEL SECTION				SURF. ELEV.	634.6	31	
ACT	JAL C	COOR	DINA	ATES	(N) 1,06	1,700.9	50	(E) 1,078,538.370	DATUM	NAD8	3	DEPTH TO W	ATER	SEE NOT	E
					DATE	START	1	19-OCT-2023	DATE FI	INISH _	19-OC	T-2023			
CASI	NG	O. D.	6 5	/8 in	I. D.	3 1/4	in	WT OF HAMMER-C	ASING		lb	HAMMER FALL	CASING	ì	in
SAMP	LER	O. D.	2	in	I. D.	1 3/8	in	WT OF HAMMER-S	AMPLER	140	lb	HAMMER FALL	-SAMPL	ER 30	in
CASING BLOWS/ft	DEPTH ft BELOW	₹ ₫	NO.		OWS ON MPLER in	MOI	IT.		DESC	RIPTION	N OF SOI	L AND ROCK			

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
19-Oct-23	09:15	25.60	35.60	NONE		NO

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 01-DEC-2023
RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.
SHEET 3 OF 3 HOLE FH-W-29

Beau Fletcher

DRILL RIG OPERATOR

PSN REGI COUI PIN	NTY <u>E</u>	RIE 512.52	2	ORN			_	DEPARTM GEOTECHN	MENT OF MICAL ENG FACE EX	NEW YORK TRANSPOR' GINEERING (PLORATIO	BUREAU		HOLE _ LINE _ STA _ OFFSET _ SURF. ELEV.	FH-W-30 ft 633 65	
				1)_		061,8	347.730	(E) 1,078, 10-OCT-20	700.340	_ DATUM			DEPTH TO W		NE
CASIN	NG O. [PLER O. [5/8 iı iı	n	I. C). 3	3 1/4 i	n WT OF	HAMMER		140	lb	HAMMER FALL		in 30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOV SAMP			MOIST. CONT. (%)			DES	CRIPTION	I OF SOIL	. AND ROCK		
<u> </u>	0.0		6	12	18	24		(0.00)	ASPHA	ALT Pavem	ent				
								(0.60)		RETE Pave					
		J1	22	18	10		2.8%	(1.40)	Grey-Bi	rown Silty S	AND, Gr	avelly Wit	th Concrete		(D-LW)
		J2	6			6	8.2%	(3.50)	Grey-Bı	own Silty C	LAY , Sa	ndy With	Gravel		(D-PW)
	5.0			3	4	6									
	10.0	J3	4	3	3	3	21.3%	(8.50)	Red-Bro	own Silty C	LAY , Sar	ndy With G	Gravel		(M-PL)
	15.0	J4	1	1	1		20.8%		Red-Bro	own Silty C	LĀŸ , Witi	h Gravel			(M-PL)
						2									
		J5	6				7.9%		Pod Br	own Silty C	AV Sar	ody With C	Pravol		(M-PL)
	20.0	33		8	6	7	7.970	(10.30)	Neu-Di	JWII JIIIY C	LAT, Sai	idy Willi	Jiavei		(IVI-F L)
	25.0	J6	57	REF			3%	(23.50)	Grey-Bi	own Silty S	āĀND , Gr	avelly			(D-LW)
and acce pres the i of th	estimate pess to the sented in granted in gr	ourpos same good fa n repre l at the	ses. I inform aith. I esent: e site.	t is m natior By the s only Inte	ade a n ava e natu r a sn rpolat	availa ilable ire of nall fr tion b	able so to to the S the exp action o etween	ained for designat users mag State. It is oloration proce of the total voludata samples data samples	y have ess, ume	DATE APP	DCK DESC TECHNIC ER Todo PROVED FENGINE	CRIPTION AL d E. Nelso 01-DEC- ER	n	immad Sr.	
CON	NTRACT		(CONT	RAC	TOR	ı c	ME Associat	es	STRUCTU SHEET 1		-	HOL	B.I.N .E FH-W	-30

PSN REGI COUI PIN PRO	NTY E	RIE 512.52 IY RT	2 33, K		GTON	 EXPY	GE SI TUNI	DEPARTN OTECHN JBSURI NEL SE(TATE OF N MENT OF T NICAL ENG FACE EXF CTION 700.340	RANSPOR INEERING PLORATI	RTATION B BUREAU ON LOG	=	HOLE LINE STA OFFSET SURF. ELEV DEPTH TO V	633.65	ONE	
					ATE ST			OCT-20		_	FINISH		T-2023		_	
CASIN		D. 6	5/8 ir	1	I. D. 3	3 1/4	in	WT OF	HAMMER-0	CASING		lb	HAMMER FAL	L-CASING		in
SAMP	LER O. I	D . 2	ir	1	I. D. 1	3/8	in	WT OF	HAMMER-S	SAMPLER	140	lb	HAMMER FAL	L-SAMPLER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOWS AMPLE 6 12	Rin	MOIST CONT (%)				DES	SCRIPTIC	ON OF SC	OIL AND ROCK			
	25.0	R1				⊢	+-	(25 30)	Run #1 [Orilled from	m 25'4" -	To 30'4"	ROCK			
	 	KI						(23.30)	REC. 6		12 Pie	eces				
	30.0															
		R2						(30.30)		Orilled froi 0" 100% IBLE TUE	11 Pie	eces				
ŀ	35.0															
	40.0	R3						` ,	NQ DOU	0" 100% IBLE TUE	o 12 Pie BE, SWIV	eces /EL "WIR	RELINE"			
	45.0	R4						(40.30)	NQ DOU	0" 100% IBLE TUE	o 14 Pie BE, SWIV	eces /EL "WIR				
•				-			-		BOTTON	I OF HO	LE AT 45	.30 ft				
			1. Aut 2. Boi	ohamm e hole i	ner use backfill	d for S ed witi	PT at	all sam _i Is upon	oling depti completion	hs. n.						

Gary Richards SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL ENGINEER** Todd E. Nelson DATE APPROVED 01-DEC-2023 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-30 SHEET 2 OF 3

DRILL RIG OPERATOR

SM 282	E 12/02						STATE OF N	EW YORK			<u></u>			
PSN	12	2472	BOR	RNUM3	38		TMENT OF T			_		FH-W-30		
REG	ION	5					HNICAL ENG				LINE			
COU	NTY	ERIE				SUBSU	RFACE EXF	PLORATIO	N LOG	=	STA			
PIN	_	5512.5	2							_	OFFSET	ft		
PRO.	JECT	NY RT	33, KEN	ISINGTO	N EXPY T	TUNNEL S	ECTION				SURF. ELEV.	633.65		
ACT	JAL C	OORDIN	IATES	(N) 1,06°	1,847.730	(E) 1,07	8,700.340	DATUM	NAD8	3	DEPTH TO W	ATER N	ONE	
				DATE S	START _	10-OCT-	2023	DATE F	INISH _	10-OC	T-2023			
CASII	NG (D. D. 6	5/8 in	I. D.	3 1/4	in WT C	F HAMMER-C	CASING		lb	HAMMER FALL	-CASING		in
SAME	PLER (D. D. 2	in	I. D.	1 3/8	in WT C	F HAMMER-S	AMPLER	140	lb	HAMMER FALL	-SAMPLER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SUBEACE	SAMPLE NO.		OWS ON MPLER in 12 18	MOIST. CONT. (%)			DESC	RIPTIO	N OF SOI	L AND ROCK			

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
10-Oct-23	09:15	24.30	23.30	NONE		NO

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 01-DEC-2023
RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.
SHEET 3 OF 3 HOLE FH-W-30

Gary Richards

DRILL RIG OPERATOR

SM 282 PSN REGI			. В	ORN	JM _	47		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	BUREAU		HOLE LINE STA	FH-W-31	
PIN		512.52		ENIC	INICT	ON I	 =VDV T	UNNEL SECTION				OFFSET SURF. ELEV		
								(E) 1,078,536.940	DATUM	NAD8			. <u>034.22</u> V ater <u>s</u> e	E NOTE
CASII	uc o i	5 61	5/8 i ı	_	DAT	E ST D. 3	_	<u>18-OCT-2023</u> in WT OF HAMMER	DATE F	INISH _	18-OCT	<u>-2023</u> HAMMER FAL	LCASING	in
	NG O.I PLER O.I		5/6 II II		1. 0			in WT OF HAMMER		140		HAMMER FAL		in 30 in
ე€	≠> ‼	Ε	E	BLOV	vs o	N								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 6		12	18	MOIST. CONT. (%)		DESC	RIPTION	OF SOIL	. AND ROCK		
	0.0								ALT Paveme					
		J1	28				3.1%		own Sandy		_ , With C	oncrete		(D-NW)
				13	5									
		J2	5				18.4%	 (3.50) Red-Br	own Silty CL	AY . Sar				(M-PL)
				7	10			(* * * *)	, -	,	,			,
	5.0				10									
		J3	2				18.5%	(8.50) Red-Br	Swp Silty CI	AV Son				<u></u> (M-PL)
		JJ	_	4			10.5%	(6.50) Red-Bi	DWIT SIITY CL	.AT, Sai	iuy			(IVI-FL)
	10.0				6									
										-,				
		J4	1	3			21.3%	(13.50) Red-Br	own Silty CL	.AY , Sar	ndy			(M-PL)
	15.0				3									
		R1					-					OCK		
									60" 100% UBLE TUBE			LINE"		
	20.0													
		R2	-				 					OCK		
								` REC.	60" 100% UBLE TUBE	11 Pied	es			
										,				
	25.0													
The	subsurfac	ce info	ı rmatio	u on sh	u own h	nere v	uas obta	Lained for design	DRILL RIG	OPERAT	ΓOR _	Beau Flet	cher	
								hat users may have State. It is	SOIL & RO			Larry Muh	ammad Sr.	
pres	ented in g	good fa	ith. I	By the	e natu	ıre of	the exp	ploration process, of the total volume	ENGINEE					
of th	e materia	l at the	site.	Inte	rpolat	ion b	etween	data samples may	DATE APP			2023 RE	VISION # 1	
not i	be indicat	ive of t	ne ac	tual r	nater	ıal en	counter	red.	STRUCTU				B.I.N	
CON	NTRACT		(CONT	TRAC	TOR	C	ME Associates	SHEET 1	OF 2		НО	LE FH-W	/-31

PSN REG COU PIN PRO	NTY	RIE 512.52 Y RT	2 33, K		TON	 EXPY T	DEPARTN GEOTECHN	TACE EXP	RANSPORTA NEERING B	UREAU N LOG	3	HOLE LINE STA OFFSET SURF. ELEV. DEPTH TO W	634.22		
				DA	TE ST	ART _	18-OCT-20	23	DATE FI	NISH _		Γ-2023			
CASI	NG O.I PLER O.I	D . 6 D . 2	5/8 ir ir		D. 3D. 1			HAMMER-C HAMMER-S		140	lb lb	HAMMER FALI		30	in in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOWS C AMPLER	R in	MOIST. CONT. (%)			DESC	RIPTION	N OF SOI	L AND ROCK			
	30.0	R3					, ,	Run #4 D REC. 57)" 100% BLE TUBE	24 piec , SWIVE 32'2" To 10 Piece	es EL "WIRE o 37'2" F	ELINE"			

BOTTOM OF HOLE AT 37.20 ft

DRILL RIG OPERATOR

- 1. Autohammer used for SPT at all sampling depths.
- 2. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER		END OF DAY
18-Oct-23	14:30	17.00	17.00	NONE		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.

REG GEOTECHNICAL
ENGINEER Todd E. Nelson

DATE APPROVED 05-DEC-2023 REVISION # 1

RESIDENT ENGINEER
STRUCTURE NAME B.I.N.

SHEET 2 OF 2 HOLE FH-W-31

Beau Fletcher

	124 ON 5 NTY E 59 ECT N	RIE 512.52 Y RT	2 33, K		INGT	ON I		DEPARTM GEOTECHN SUBSURI		ANSPORTA NEERING B LORATIO	SUREAU N LOG		LINE STA OFFSET SURF. ELEV.		TE NOTE	
ACTU	AL COC	JKUIN	AIE		<u>N) 1,0</u> DATI			(E) 1,078, 11-OCT-20		DATUM DATE FI	NAD83 NISH	3 11-0C1	DEPTH TO W Γ-2023	IAIER S	EE NOTE	
CASIN			5/8 ii		1. 0			in WT OF	HAMMER-CA	ASING		lb	HAMMER FALI			in
SAMPI	LER O. [D . 2	į į	n	1. [) . 1	3/8 i	in WT OF	HAMMER-SA	AMPLER	140	lb	HAMMER FALI	L-SAMPLER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOV SAMP	LER 12	in 18	MOIST. CONT. (%)			DESC	RIPTION	OF SOI	L AND ROCK			
	0.0			12	/ 18	/ 24		(0.00) (0.30)		T Paveme TE Paver						
		J1	10	8	4	2	4%	(1.30)	Grey-Brov	vn Sandy (GRAVEL	, Silty		. — — — —	(D-L	.W)
-	5.0	J2	3	3	6	6	17.7%	(3.50)	Red-Brow	n Silty CL	AY , Grav	velly			——————————————————————————————————————	PL)
-	10.0	J3	8	6	6	5	8%	(8.50)	Red-Brow	n GRAVE	L , Silty				— — (M-L	PL)
		J4	REF	I	I	I	7.7%	(13.50)	CONCRE		AT 13.6	0 ft				1 <u>M)</u>

- Autohammer used for SPT at all sampling depths.
 Bore hole backfilled with spoils upon completion.
 Hole terminated/moved due to possible concrete utility encountered at 13.6'. See log FH-W-33a for further information.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER		END OF DAY
11-Oct-23	10:15	13.60	13.50	NONE		NO
11-Oct-23	11:05	6.00	0.00	NONE		NO

DRILL RIG OPERATOR

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL** ENGINEER Todd E. Nelson DATE APPROVED 05-DEC-2023 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-33 SHEET 1 OF 1

Gary Richards

CONTRACT CONTRACTOR **CME** Associates

PSN REGI	NTY E	RIE	_	ORNI	JM _	44		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E	IGINEERING I	BUREAU		LINE _ STA _	FH-W-33a	
PIN PRO		512.52 Y RT		ENS	INIGT	 	 EYPY T	UNNEL SECTION				OFFSET SURF. ELEV.		
				<u>1)</u>	N) 1,(062,3	396.410	(E) 1,078,735.640		NAD8	3	DEPTH TO W		E NOTE
CASII	NG O. I	n . 6	5/8 i :		DATI		_	25-OCT-2023 n WT OF HAMMER	DATE F R-CASING	INISH _	25-OCT lb	-2023 HAMMER FALL	-CASING	in
	PLER O. I			n	1. [n WT OF HAMMER		140		HAMMER FALL		30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOV SAMP	LER		MOIST. CONT. (%)		DESC	CRIPTION	N OF SOIL	AND ROCK		
_	0.0		6	12	18	2 4		(0.00) ASPH	ALT Paveme	ent				
		.,						(0:40)\ CON(RETE Pave	ment				
		J1	1	3			11.6%	(0.60) Brown	Gravelly SA	ND , Silty	1			
					5	_								
						7								
		J2	6	7			20.8%	(3.50) Red-B	own Silty CL	.AY , Sar	ndy With (Gravel		(M-PL)
	5.0			,	9									
						13								
		J3	5				19.6%	(8.50) Red-B	own Silty CL	AY , Sar	ndy With (Gravel		(M-PL)
	10.0			7	7									
	10.0					9								
		J4	2				21.6%	(13.50) Red-B	rown Silty Cl	<u></u>				. – – <u>– – – – – – – – – – – – – – – – –</u>
		04	-	2	_		21.070	(10.00) Red-B	OWIT OILLY OL					(IVI-I L)
	15.0				2	3								
		R1						(16.30) Run#	Drilled from 60" 100%			OCK		- — — — — —
									OUBLE TUBE			LINE"		
	20.0													
		R2							2 Drilled from	21'4" T	o 26'4" R	OCK		
								` REC.	60" 100% OUBLE TUBE	9 Piece	es			
								1100 200	OBLE TOBL	_,		.LII VL		
	25.0													
		:						sia sal formale since	DDILL DIC	ODEDAT	rop.	A I I in a to		
and	estimate	purpos	ses. I	lt is m	ade a	availa	able so t	ained for design hat users may have	DRILL RIG			Al Linstruth Larry Muha		
	recess to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information available to the State. It is REG GEOTECHNICAL ENGINEER Todd E. Nelson													
the i	informatio	n repre	esent	s only	a sn	nall fr	action o	f the total volume data samples may	DATE APP					
	be indicat								RESIDENT	ENGINE	ER		DI.	
									SIRUCIUI	XE INAIVIE	_		B.I.N	
CON	NTRACT		(CONT	RAC	TOR	. C	ME Associates	SHEET 1	OF 2		HOL	E FH-W	′-33a

PSN REGI COUI PIN PRO. ACTU	IECT N JAL COO	RIE 512.52 Y RT ORDIN D. 6	2 33, K ATE \$	<u>(1</u> n	INGT N) 1,(DAT I	ON E 062,3 E STA			
CASING BLOWS/ft	DEPTH # 33 BELOW SURFACE O	SAMPLE NO.	S	BLOV SAMP		N in	MOIST. CONT. (%)	n WT OF HAMMER-SAMPLER 140 Ib HAMMER FALL-SAMPLER 30 I	in
	25.0	R3						(26.30) Run #3 Drilled from 26'4" To 31'4" ROCK REC. 60" 100% 13 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	_
	35.0	R4						(31.30) Run #4 Drilled from 31'4" To 36'4" ROCK REC. 60" 100% 13 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	_

- Autohammer used for SPT at all sampling depths.
 Bore hole backfilled with spoils upon completion.
- 3. Relocated from FH-W-33 due to possible concrete-encased utility.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DAIL	I IIVIL	HOLE	CASING	WATER		END OF DAY
25-Oct-23	09:15	16.30	16.30	NONE		NO

DRILL RIG OPERATOR

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL ENGINEER** Todd E. Nelson DATE APPROVED 05-DEC-2023 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-33a SHEET 2 OF 2

Al Linstruth

SM 282 PSN REGI			. В	ORN	UM _	48		DEPARTM GEOTECHN	IENT OF	NEW YORK TRANSPORT GINEERING (PLORATIC	BUREAU		HOLE LINE STA	FH-W-35	
PIN		512.52		TNO	INICT	-ON 1		UNNEL CEC	STION				OFFSET	ft 624.05	
								UNNEL SEC (E) 1,078,		DATUM	NAD8		SURF. ELEV DEPTH TO V	7. <u>634.95</u> NATER SE	E NOTE
					DAT	E ST	art _	11-OCT-20	23	DATE F	INISH _	11-OCT-	-2023		
CASI	NG O.I PLER O.I		5/8 i i i	n n	I. C				HAMMER: Hammer:	-CASING -SAMPLER	140		HAMMER FAL HAMMER FAL		in 30 in
				BLOV						<u> </u>					
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6	LER 12	in 18	MOIST. CONT. (%)			DESC	CRIPTION	N OF SOIL	. AND ROCK	ζ	
	0.0			12	10			(0.00)	ASPHA	LT Pavem	ent				
										RETE Pave					
								, ,		own Sandy		avelly			(M-LPL)
								(1100)		· · · · · · · · · · · · · · · · · · ·	,				(=: =)
		14	7				47.50/								
		J1	7	10			17.5%								
	5.0				13	15									
						15									
		J2	7				22.2%	(8.50)	Red-Bro	own Silty Cl	AY, Fin	e Sandy			(M-PL)
	10.0			10	10										
	10.0				10	11									
							L								
		J3	2	4			11.1%	(13.50)	Red-Gre	ey Silty CLA	Y , Sand	ly With Gr	avel		(M-PL)
	15.0	R1			REF		 	(14.50)	Run #1	Drilled from	14'6" T	o 19'6" R	OCK		
										60" 100% UBLE TUBI			LINE"		
							L	45.50	#o	5	-400T -				
	20.0	R2						(19.50)	REC. 6	Drilled from 30" 100%	9 Piece	es			
									NQ DO	UBLE TUBI	E, SWIVE	EL "WIRE	LINE"		
	25.0	R3					 	(24.50)	Run #3	Drilled from	24'6" T	o 29'6" R	OCK		
The	subsurfa	ne info	rmeti.	on sh		here :	Nas oht	ained for desi	an	DRILL RIG	ODEBV.	TOR	Gary Rich	nards	
and	estimate	purpos	ses. I	lt is m	ade a	availa	able so t	hat users ma	•	SOIL & RC	CK DES	CRIPTION	Larry Muh		
								State. It is Noration proce	ess,	REG GEOT			an.		
the i	informatio	n repre	esent	s only	/ a sn	nall fr	action o	of the total vol data samples	ume	DATE APP		d E. Nelso 05-DEC-		VISION # 1	
	e materia be indicat								illay	RESIDENT	ENGINE	ER	_ 		
										STRUCTU	KE NAME	=		B.I.N	
CON	NTRACT		(CONT	ΓRAC	TOR	. C	ME Associat	es	SHEET 1	OF 2		НО	LE FH-W	/-35

PSN REGI COUI PIN PRO	ON 5 NTY E 59 JECT N	RIE 512.52 Y RT :	2 33, KE		ΓΟΝ Ι	 _ _ _ _XPY]	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG STA OFFSET TUNNEL SECTION O (E) 1,078,546.450 DATUM NAD83 HOLE FH-W-35 LINE STA OFFSET ft SURF. ELEV. 634.95 DEPTH TO WATER SEE NOTION	
				DAT	E ST	ART _	11-OCT-2023 DATE FINISH 11-OCT-2023	
CASIN	IG 0. [LER 0. [). 65	5/8 in in		D. 3 D. 1		in WT OF HAMMER-CASING Ib HAMMER FALL-CASING in WT OF HAMMER-SAMPLER 140 Ib HAMMER FALL-SAMPLER 30	in in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	MPLE NO.	В	LOWS O	N in	MOIST. CONT. (%)	r.	
	25.0 			12 10			REC. 60" 100% 10 Pieces (25.50) NQ DOUBLE TUBE, SWIVEL "WIRELINE" Run #3 Drilled From 25'6" To 29'6" ROCK	
	30.0	R4					(29.50) Run #4 Drilled from 29'6" To 34'6" ROCK REC. 58" 96.7% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
							BOTTOM OF HOLE AT 34.50 ft	

- Autohammer used for SPT at all sampling depths.
 Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN	FILLED WITH WATER AT
DATE	TIME	HOLE	HEAD HEIGHT HOLE CASING WATER ABOVE GROUND			END OF DAY
11-Oct-23	12:15	14.50	13.50	NONE		NO

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL ENGINEER** Todd E. Nelson DATE APPROVED 05-DEC-2023 REVISION #1 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-W-35 SHEET 2 OF 2

Gary Richards

DRILL RIG OPERATOR

PSN REGI	GEOTECHNICAL ENGINEERING BUREAU LINE SUBSURFACE EXPLORATION LOG STA													
PIN				TNO	INIOT	-ON 1	 	LINNEL CECTION				OFFSET	ft	
								UNNEL SECTION (E) 1,078,426.170	DATUM	NAD8		SURF. ELEV. DEPTH TO WA		E NOTE
					DAT	E ST	ART _	17-OCT-2023	DATE F	INISH _	17-OCT	-2023		
CASI	NG O. [PLER O. [5/8 ir ir		I. C			in WT OF HAMMER in WT OF HAMMER		140		HAMMER FALL		in 30 in
#	Ш _ بي		F	BLOV	vs o	N								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	6	LER 12	in 18	MOIST. CONT. (%)		DESC	RIPTION	I OF SOIL	AND ROCK		
	0.0			12	10	24			ALT Paveme	ent				
		J1	8				11.5%		Subbase Silty SAND ,	Gravelly	,			- (M-LPL)
		•		9			1.11070	, blown	only OAIVD ,	Clavelly				
					9	11								
		J2	8				23.4%	(3.00) Red-Br	own Silty CL	AY , Sar	ndy With 0	Gravel		(M-PL)
				6	9									
	5.0					11								
		J3	5				13.6%	(8.50) Red-Br	own Silty CL	AY , Sar	ndy With 0	Gravel		(M-PL)
	10.0			7	10			, ,	-					, ,
	10.0				10									
							L	L						
		J4	8	8			13.7%	(13.50) Red-Br	own Silty CL	AY , Sar	ndy With (Gravel		(M-PL)
	15.0				11									
		J5	2				14.4%	 (18.50) Red-Br	own Silty CL	AY , Sar	ndy With (Gravel		(M-PL)
	20.0			4	7			,	•		•			, ,
	20.0				′									
	\vdash \dashv						L							
		J6	3	4			16.6%	(23.50) Red-Br	own Silty CL	AY , Sar	ndy With (Gravel		(M-PL)
	25.0				4									
The	subsurfac	e info	l rmatic	on sh	L own F	l nere u	L vas oht	lained for design	DRILL RIG	OPERAT	ΓOR	Brian Fletc	her	
and	estimate	ourpos	ses. I	t is m	ade a	availa	ble so t	hat users may have	SOIL & RO	CK DES	CRIPTION	Larry Muha		
pres	ented in g	good fa	aith. E	By the	e natu	ıre of	the exp	State. It is Noration process,	REG GEOT			on		
								of the total volume data samples may	DATE APP	ROVED	05-DEC-			
	be indicati								RESIDENT				B.I.N.	
00.	ITD 4 CT			~~·-	- D 4 C		_	NAT A : - t			-	1101	.E. FH-X	36
CON	NTRACT		(CONT	KAC	·IUK	·	ME Associates	SHEET 1	UF 3		HUL	.⊏ гп-Х∙	-30

PSN REGI COU	NTY E	RIE		ORNI	UM _	39		STAT DEPARTMEN GEOTECHNIC SUBSURFAC	NT OF 1 AL ENC	SINEERING E	BUREAU		LINE	FH-X-36	
PIN PRO		512.52 Y RT		ENS	INGT	ON E	_ EXPY T	UNNEL SECTI	ION				OFFSET SURF. ELEV		
ACT	JAL COO	ORDIN	ATES		N) 1,0 DATI			(E) 1,078,426 17-OCT-2023		_ DATUM DATE F	NAD8	3 [17-OCT-2		VATER SE	E NOTE
CASII	NG 0. I) . 6	5/8 iı) . 3	_	n WT OF HA					IAMMER FAL	L-CASING	in
	PLER O. I	D . 2	iı	n	I. D) . 1	3/8 i	n WT OF HA	MMER-	SAMPLER	140	lb F	IAMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	l .	6	VS OI LER 12 18	in 18	MOIST. CONT. (%)			DESC	RIPTION	I OF SOIL	AND ROCK		
	25.0 														
											AY , San	dy With G	ravel		(M-PL)
	35.0	J8	4	4	5		29.9%	(33.50)_ R	ed-Bro	own Silty CL	AY , San	dy With G	ravel		(M-PL)
	40.0	J9	WOH		2		27.8%	(38.50)_ R	ed-Bro	own Silty CL	AY , San	dy			(M-PL)
WOH 2 (40.40) Run # REC.							EC. 6	Drilled from 50" 100% JBLE TUBE	9 Piece	S					
R2 (45.40) Run #2 Drilled REC. 60" 1 NQ DOUBLE									30" 100%	9 Piece	S				
and acce pres the i	estimate pess to the sented in granted in gr	purpos same good fa n repre l at the	ses. I inform aith. I esent: e site.	t is m natior By the s only Inte	nade a n avai e natu / a sm rpolat	availa ilable ire of nall fra tion b	ble so to to the S the exp action o etween	hat users may h State. It is Iloration process f the total volum data samples m	nave s, ne	REG GEOT	CK DESC ECHNICA R Todd ROVED ENGINE	CRIPTION AL I E. Nelsor 05-DEC-2 ER			
CON	NTRACT		(CONT	ΓRAC	TOR	С	ME Associates		SHEET 2	OF 3		НО	LE FH-X-	-36

SM 282	E 12/02							STATE OF N	EW YORK		_=				
PSN	12	472	B	ORNUM	I39	9	DI	EPARTMENT OF THE	RANSPORT	ATION		HOLE	_FH-X-3	6	
REGI	ON	5					GE	OTECHNICAL ENG	INEERING E	BUREAU		LINE			
COU	NTV _	ERIE					SU	JBSURFACE EXF	² LORATIO	N LOG		STA			
	_										=	_			
PIN		<u>5512.52</u>	<u> </u>								· ·	OFFSET	ft		
PRO.	JECT _	NY RT	33, K	ENSING	STON	I EXPY	ΓUNN	IEL SECTION				SURF. ELEV	655.8	31	
ACTU	JAL CC	ORDIN	ATES	(N)	1,059	,713.080) (E)) 1,078,426.170	DATUM	NAD8	3	DEPTH TO V	VATER	SEE NO	OTE
	DATE START 17-OCT-2023 DATE FINISH 17-OCT-2023														
CASI	IG O	D . 6	5/8 ir	n I	l. D.	3 1/4	in	WT OF HAMMER-C	CASING		lb	HAMMER FAL	L-CASING	ì	in
SAMP	LER O	D . 2	ir	n I	l. D .	1 3/8	in	WT OF HAMMER-S	SAMPLER	140	lb	HAMMER FAL	L-SAMPL	ER 30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOWS AMPLE 6 12	R in	MOIST CONT. (%)			DESC	RIPTIO	N OF SOII	L AND ROCK			

BOTTOM OF HOLE AT 50.40 ft

- 1. Autohammer used for SPT at all sampling depths.
- 2. Due to the presence of slag subbase, Watts and MJW were onsite to perform environmental screening. Initial testing showed no increase in radiation, however all sample material from 0.4' to 1' was taken for further testing. Jar sampling began at 1' depth. 3. **3" sampler used on J1 only**
- 4. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIL	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
17-Oct-23	14:10	40.40	40.40	NONE		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL** ENGINEER Todd E. Nelson DATE APPROVED 05-DEC-2023 RESIDENT ENGINEER STRUCTURE NAME B.I.N. HOLE FH-X-36 SHEET 3 OF 3

Brian Fletcher

DRILL RIG OPERATOR

PSN REGI COUI PIN PRO	NTY <u>E</u>	RIE 512.52 Y RT	2 33, K	1)_ 2	INGT N) 1,(ON E	 _ _ EXPY T 23.370	DEPARTM GEOTECHN SUBSURI CUNNEL SEC (E) 1,078,	MENT OF NICAL END FACE EX CTION 477.010	NEW YORK TRANSPORT GINEERING I	BUREAU NN LOG NAD83	3	LINE STA OFFSET SURF. ELEV DEPTH TO W		EE NOTE
CASIN	NG O. I		5/8 ii		I. [) . 3	1/4 i		HAMMER	DATE F -CASING -SAMPLER	140		2023 HAMMER FAL HAMMER FAL		in 30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOV SAMP	LER 12		MOIST. CONT. (%)			DESC	CRIPTION	OF SOIL	AND ROCK		
	0.0 — — — —	J1	3	5	6		18.6%	(0.00)	Red-Bro	own Silty CL	.AY , Sand	dy Gravel			(M-PL)
	5.0	J2	6	9	12		11.9%	(3.50)	Red-Bro	own Silty CL	ĀY , Sand	dy Gravel			(M-PL)
	10.0	J3	4	11	16		12.9%	(8.50)	Red-Bro	own Silty CL	ĀY , Sand	dy Gravel			(M-PL)
	15.0 	J4	7	10	12		15.2%	<u>(13.50)</u>	Red-Bro	own Silty CL	AY , Sand	dy Gravel			(M-PL)
	20.0	J5	4	6	7		16.9%	(18.50)	Red-Bro	own Silty CL	AY , Sand	dy			(M-PL)
	25.0	J6	4	6	7		12.5%	(23.50)	Red-Bro	own-Grey S	ilty CLAY	, Sandy G	Gravel		(M-PL)
and acce pres the i of th	estimate pess to the sented in ginformatio	purpos same good fa n repre l at the	ses. I inform aith. I esent: e site.	It is m matior By the s only Inter	ade a n avai e natu v a sn rpolat	availa ilable ire of nall fra tion b	ble so to to the S the exp action o etween	ained for des hat users ma State. It is State. It is other is to f the total voi data sample ed.	ess, lume	DRILL RIG SOIL & RO REG GEOT ENGINEE DATE APP RESIDENT STRUCTUI	CK DESC FECHNICA R Todd ROVED ENGINEE	RIPTION AL E. Nelson 05-DEC-2 ER	n 2023 RE	ammad Sr. VISION # 1 B.I.N.	
CON	NTRACT		(CONT	TRAC	TOR	C	ME Associa	tes	SHEET 1	OF 3		НО	LE FH-X	-37

PSN REG	GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG STA OFFSET ft													
PIN	5	512.52					_		a Lord and	711 200	=		ft	
								UNNEL SECTION (E) 1,078,477.010	DATUM	NAD8		SURF. ELEV. DEPTH TO W		E NOTE
					DAT	E ST	ART _	17-OCT-2023	DATE F		17-OCT	-2023		
SAME	NG O. I PLER O. I		5/8 iı iı		I. C			in WT OF HAMMER in WT OF HAMMER		140	lb lb	HAMMER FAL		in 30 in
ე≝	≠≥∺	щ		BLOV										
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6 12	12	in 18 24	MOIST. CONT. (%)		DES	CRIPTION	N OF SOIL	AND ROCK		
	25.0			12	10									
		J7	12	12			11.2%	(28.50) Grey-B	rown Silty G	RAVĒŪ,	Sandy			(W-LPL)
	30.0			12	10									
	├ <u>┤ </u>													
												(M-PL)		
	35.0				6									
		R1						(36.20) Run #1 REC.	Drilled from 60" 100%			OCK		
								NQ DO	UBLE TUB	E, SWIVE	EL "WIRE	LINE"		
	40.0													
	40.0													
		R2					L	(41.20) Run #2	Drillod from					
		N2						` REC.	60" 100%	9 Piece	es			
								NQ DO	UBLE TUB	E, SVVIVI	EL WIRE	LINE		
	45.0													
			L					L BOTTC	M OF HOL	E AT 46.	20 ft			
								PT at all sampling dep						
			2. Bo	re ho	ie ba	CKTIII	ed with	spoils upon completi	on.					
1								ained for design	DRILL RIG			Brian Fleto		
acce	ess to the	same	inforn	natior	n ava	ilable	to the S	hat users may have State. It is	SOIL & RO			Larry Muh	ammad Sr.	
								oloration process, of the total volume	ENGINE	R Tode	d E. Nelsc		/ICION # 4	
of th		l at the	e site.	Inte	rpolat	tion b	etween	data samples may	DATE APP			<u>-∠∪∠3</u> KE	VISION # 1	
						. J. 011		 -	STRUCTU	RE NAME	=		B.I.N	

SHEET 2 OF 3

CONTRACT

CONTRACTOR

CME Associates

HOLE FH-X-37

SM 282 E	12/02				STATE OF NEW YORK
PSN	124	72	BORNUM _	49	DEPARTMENT OF TRANSPORTATION ####################################
REGIO	ON 5				GEOTECHNICAL ENGINEERING BUREAU LINE
COUN	ITY E	RIE			SUBSURFACE EXPLORATION LOG STA
PIN	_ 5	512.52			OFFSET ft
PROJ	ECT N	Y RT 3	33, KENSINGTO	ON EXPY TU	JNNEL SECTION SURF. ELEV. 652.78
ACTU.	AL COC	DRDIN	ATES (N) 1,06	50,123.370	(E) 1,078,477.010
			DATE	START1	<u>17-OCT-2023</u> DATE FINISH <u>17-OCT-2023</u>
CASIN	G 0. I) . 65	5/8 in I. D .	3 1/4 in	WT OF HAMMER-CASING Ib HAMMER FALL-CASING in
SAMPL	_ER O. [) . 2	in I. D.	1 3/8 in	WT OF HAMMER-SAMPLER 140 Ib HAMMER FALL-SAMPLER 30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in 0 6 12 18	MOIST.	DESCRIPTION OF SOIL AND ROCK

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
17-Oct-23	08:50	30.00	28.50	28.00		NO

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.

REG GEOTECHNICAL
ENGINEER Todd E. Nelson

DATE APPROVED 05-DEC-2023 REVISION # 1

RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.

SHEET 3 OF 3 HOLE FH-X-37

Brian Fletcher

DRILL RIG OPERATOR

PSN			ВОІ	RNUM	36	_	DEPARTMEN [*]	T OF TR.					FH-W-38	
REG						_	GEOTECHNICA SUBSURFAC					LINE		
PIN	_	ERIE 5512.52	<u> </u>			_	00000111710)	-0101110	11 200	=	STA OFFSET	ft	
				NSING.	TON	 FXPY T	UNNEL SECTION	ON				SURF. ELEV		
							(E) 1,078,471		DATUM	NAD83	3	DEPTH TO V		E NOTE
					E ST		18-OCT-2023		DATE F	INISH _	18-OC1			
CASII	NG O.	D. 7	5/8 in	I.	D . 4	1/4 i	n WT OF HAM	MER-CA	ASING		lb	HAMMER FAL	L-CASING	in
SAME	PLER O.	D . 3	1/2 in	I.	D.		n WT OF HAN	MMER-SA	MPLER	140	lb	HAMMER FAL	L-SAMPLER	30 in
=	سے ہے		BI	ows c	N									
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		MPLER		MOIST. CONT.			DESC	PDIDTION	OE SOI	L AND ROCK		
CAS		ΑŽŽ	0 /6	/12 /	18 /	(%)			DESC	JKIF HON	01 301	L AND ROCK		
_ m		0,	6	12 18	24									
	0.0						(0.00) No	Sampl	e SEE No	OTES				
		1												
		1			1									
		-			1									
	5.0				1									
	- 0.0	1												
]			1									
		1												
		1												
	10.0													
	10.0	-												
		1												
		1												
		1												
	15.0	1												
		1												
					1									
					1									
	<u> </u>	1			1									
					1									
		1			1									
	20.0	4			1									
					1									
	- -	1			1									
					1									
]			1									
		 T1			1	<u> </u>	<u>(23.00)</u> De	occiptic	n Of IIsa	icturbod c	Soil Same	nlos Chaura		
		' '			1								MARY LOG	
	- -	1			1		311	n Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG						
	25.0													
								OTTOM OF HOLE AT 25.00 ft						
1							ained for design	I		OPERAT		Beau Flet	cher	
	and estimate purposes. It is made available so that users may har access to the same information available to the State. It is													
pres	presented in good faith. By the nature of the exploration process,													
	the information represents only a small fraction of the total volume							DATE ADDROVED OF DEC 2022 DEVISION # 1						
of th	of the material at the site. Interpolation between data samples ma not be indicative of the actual material encountered.									ENGINE				
',51	not be indicative of the actual material encountered.							S	TRUCTU	RE NAME			B.I.N	
CO	NTRACT CONTRACTORCME Associates								HEET 1	OF 2		НО	LE FH-W	V-38

	E 12/02								NEW YORK			<u> </u>			
PSN	1:	2472		BOF	rnum	36		ARTMENT OF				HOLE .	FH-W-	38	
REG	ION	5						ECHNICAL EN				LINE			
COU	NTY	ERIE					SUB	SURFACE EX	(PLORATIO	N LOG	=	STA			
PIN		5512	52									OFFSET	ft		
PRO.	JECT .	NY R	T 33	, KE	NSINGTO	N EXPY 1	UNNE	SECTION				SURF. ELEV.	653.4	46	
ACT	JAL C	OORD	INA	ΓES	(N) 1,05	9,119.950	(E) 1	,078,471.880	_ DATUM	NAD8	3	DEPTH TO W	/ATER	SEE NO	TE
					DATE	Start _	18-OC	CT-2023	DATE F	INISH _	18-OC	T-2023			
CASII	NG (D. D.	7 5/8	in	I. D.	4 1/4	in W	T OF HAMMER	-CASING		lb	HAMMER FAL	L-CASING	3	in
SAME	PLER (D. D.	3 1/2	in	I. D.		in W	T OF HAMMER	-SAMPLER	140	lb	HAMMER FAL	L-SAMPL	ER 30	in
CASING BLOWS/ft	DEPTH ft BELOW	SAMPLE	0 0		OWS ON MPLER in	CONT.			DESC	CRIPTION	N OF SOI	IL AND ROCK			

- Advanced boring to 23 ft to acquire undisturbed sample. See nearby boring #FH-W-9 for overburden details.
 Bore hole backfilled with spoils upon completion.

SOIL & ROCK DESCRIPT	ION NA		
REG GEOTECHNICAL			
ENGINEER Todd E. N	elson		
DATE APPROVED 05-D	EC-2023	REVISION #1	
RESIDENT ENGINEER			
STRUCTURE NAME		B.I.N	
SHEET 2 OF 2	H	HOLE FH-	W-38

Beau Fletcher

DRILL RIG OPERATOR

PSN REGI COUI PIN PRO	NTY E	RIE 512.52 Y RT : DRDIN	! 33, KENS ATES _(I		 I EXPY T ,287.110 TART	GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG (PY TUNNEL SECTION 7.110 (E) 1,078,525.540 DATUM NAD83 RT 18-OCT-2023 DATE FINISH			HOLE FH-W-39 LINE STA OFFSET ft SURF. ELEV. 655.29 DEPTH TO WATER NONE 18-OCT-2023 Ib HAMMER FALL-CASING in			
	PLER O. I		1/2 in	I. D. VS ON	i	n WT OF	HAMMER-S	SAMPLER	140	lb H	HAMMER FALL-SAI	MPLER 30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		LER in	MOIST. CONT. (%)				RIPTION (OF SOIL	AND ROCK	
10.0							NO SAM					
								DRILL RIG SOIL & ROO REG GEOT ENGINEEI DATE APPI RESIDENT STRUCTUR	CK DESCR ECHNICAL R Todd E ROVED <u>0</u> ENGINEER	RIPTION L E. Nelsor 5-DEC-2	2023	N
CONTRACT CONTRACTOR CME Associates									OF 2		HOLE	FH-W-39

SM 202	E 12/02							-		IEW VODIC				
	M 282 E 12/02 PSN 12472 BORNUM 37 DEP									NEW YORK FRANSPORT	ATION	=	HOLE FH-W-39	
_	REGION 5 GEOTEC								NICAL ENG	SINEERING E	BUREAU		LINE	
COUNTY ERIE SU								SUBSUR	FACE EX	PLORATIO	N LOG		STA	
PIN	5	512.52	2				_						OFFSET ft	
PRO	JECT N	Y RT	33, K	ENSI	NGT	ON E	XPY T	UNNEL SEC	CTION				SURF. ELEV. 655.29	
ACT	JAL COC	ORDIN	ATES					(E) 1,078,		_ DATUM			DEPTH TO WATER N	ONE
					DATE	_	_	18-OCT-20		DATE F	inish _	18-OC	T-2023	
CASING O. D. 7 5/8 in I. D. 4 1/4									HAMMER-			lb	HAMMER FALL-CASING	in
SAM	PLER O. I) . 3	1/2 ir	1	I. D		i	n WT OF	HAMMER-	SAMPLER	140	lb	HAMMER FALL-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		/	ER i		MOIST. CONT. (%)			DESC	CRIPTIO	N OF SOI	L AND ROCK	
	25.0													
	30.0													
	30.0													
								<u></u>		COVERY				
								(33.00)	NO RE	COVERT				
	35.0													
]							
		T1						(35.50)					ples Shown AMPLE SUMMARY LOG	
									DOTTO	MOELIOL	- 47.07	FO #		
									ROLLO	M OF HOLE	= AT 3/.	DU II		

- Advanced boring to 33 ft to acquire undisturbed sample. See nearby boring #FH-W-11 for overburden details
 Bore hole backfilled with spoils upon completion.

SOIL & ROCK DESCRIPTION	
REG GEOTECHNICAL	
ENGINEER Todd E. Nelson	
DATE APPROVED 05-DEC-202	<u>3</u>
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N
SHEET 2 OF 2	HOLE FH-W-39

B. Fletcher

DRILL RIG OPERATOR

SM 282 PSN REGI			. В	ORNI	UM ₋	17		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E	GINEERING E	BUREAU		HOLE LINE STA	FH-X-7	
PIN	5	512.52				-011					=	OFFSET		
								UNNEL SECTION (E) 1,078,361.960	DATUM	NAD8		SURF. ELEV DEPTH TO V	'. <u>633.4</u> V ATER SE	E NOTE
					DAT	E ST	art _	13-SEP-2023	DATE F		13-SEP-	2023		
CASI	NG O. I PLER O. I		5/8 iı iı		I. C			n WT OF HAMMER		140		HAMMER FAL HAMMER FAL		in 30 in
				BLOV			J, c		· · · · · ·		•			
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6	LER	in 18	MOIST. CONT. (%)		DESC	RIPTION	OF SOIL	AND ROCK		
	0.0							(0.00) ASPH						
		J1	6				12.7%	(0.30) CONO (1.00) Red-Bi	RETE own Gravell	SAND	Clavey			(M-LPL)
				19	13			,		, =,	,, . ,			` .
					10	9								
		J2	5				15.4%	(4.00) Red-Bi	own Silty CL	AY , Sar	ndy With G	 Gravel		(M-PL)
	5.0			5	5									
						5								
		J3	3				23.2%	(9.00) Red-Bi	own Silty Cl	∆V Sar				(M-PL)
	10.0	00	~	2			20.2 /	(0.00) 1.00	Own only C_	A1 , Ca.	шу			(ivi i =)
					3	3								
		14	,				0.40/		Silby (1)	7V -Cro		<u> </u>		
	15.0	J4	2	2			8.1%	(14.00) Reu-bi	OWN SIILY CL	AY, Gra	ivelly vviui	Sanu		(M-PL)
					2	REF	 							
		R1						(15.80) Run #1 REC.	Drilled from 57" 95%			ROCK		
									UBLE TUBE			LINE"		
	20.0													
	20.0													
		R2							Drilled from			ROCK		
									60" 100% OUBLE TUBE			LINE"		
	25.0													
								ained for design hat users may have	DRILL RIG			A. Linstrut		
acce	ess to the	same	inforn	natior	n ava	ilable	to the S	State. It is	REG GEOT			Larry Muh	iammad Sr.	
								oloration process, of the total volume			d E. Nelso		V/ICION # 4	
of th		l at the	e site.	Inte	rpola	tion b	etween	data samples may	DATE APP RESIDENT			<u>2023</u> KE	VISION # 1	
7,00	oo maroad	VO 0/ 1	,,,,	ruur r	nator	.a. 0.,	ooumor	ou.	STRUCTUE	RE NAME			B.I.N	
CON	NTRACT		(CONT	TRAC	TOR	C	ME Associates	SHEET 1	OF 2		НО	LE FH-X-	7

SM 282 PSN	E 12/02 124	72	В	ORNU	JM _	17	_		PARTM	IENT OF T	IEW YORK RANSPORT				HOLE	FH-X-7	7		
REGI	ON 5										SINEERING E				LINE				
COU	NTY E	RIE					_	SU	BSURF	ACE EXI	PLORATIO	N LOG		=	STA				
PIN	5	512.52	2											_ c	OFFSET]	ft			
PRO.	JECT N	Y RT	33, K	ENSI	NGT	ON E	XPY T	UNN	EL SEC	CTION				SUR	RF. ELEV.	633.	.4		
ACT	JAL CO	ORDIN	ATES	<u>(N</u>	J) 1,0	59,1	21.830	(E)	1,078,3	361.960	DATUM	NAD8	33	DEP	TH TO W	ATER	SEE	NOTE	
				I	DATE	STA	ART _	13-5	SEP-202	23	DATE F	INISH _	13-SEF	P-202	23				
CASI	NG 0. I	D . 6	5/8 ir	1	I. D	. 3	1/4 i	n	WT OF I	HAMMER-	CASING		lb	HAM	IMER FALI	CASIN	G		in
SAMP	LER O. I) . 2	ir	1	I. D	. 1	3/8 i	n	WT OF I	HAMMER-	SAMPLER	140	lb	HAM	IMER FALI	SAMPL	LER 3	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		/	ER i	n 18	MOIST. CONT. (%)				DESC	CRIPTIO	N OF SOI	L AN	D ROCK				
	25.0																		

BOTTOM OF HOLE AT 25.80 ft

- Autohammer used for SPT at all sampling depths.
 SPT refusal @ 15.8' below grade.
 Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
13-Sep-23	11:45	15.80	14.00	NONE		NO
13-Sep-23	13:35	13.00	0.00	3.00		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

CONTRACTOR

CME Associates

CONTRACT

SOIL & ROCK DESCRIPTION Lar	ry Muhammad Sr.
REG GEOTECHNICAL	
ENGINEER Todd E. Nelson	
DATE APPROVED <u>28-NOV-2023</u>	REVISION # 1
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N.
SHEET 2 OF 2	HOLE EH-X-7

A. Linstruth

DRILL RIG OPERATOR

PSN REGI COUI PIN PRO	ON 5 NTY E 5 JECT N JAL COC	RIE 512.52 Y RT : DRDIN	2 33, K	1)_ (1	INGT N) 1,(ON E 059,1 E ST		STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG STA OFFSET TUNNEL SECTION (E) 1,078,367.360 DATUM NAD83 DEPTH TO WATER SE 13-SEP-2023 DATE FINISH 13-SEP-2023 DATE FINISH WT OF HAMMER-CASING HOLE FH-X-7e LINE STA OFFSET ft SURF. ELEV. 633.4 DEPTH TO WATER SE	EE NOTE
SAMF	LER O.	D . 3	ir	ı	1. 0) . 2	3/8	n WT OF HAMMER-SAMPLER 140 Ib HAMMER FALL-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOV AMP		in	MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK	
고립	Seg	'S	0	12	12/18	18	(70)		
	0.0				-10			(0.00) ASPHALT (0.30) CONCRETE	
		J1	11	36	21			(1.10) Brown SAND , Trace Silt	(D-NW)
		J2	22	16		22		(3.00) Brown SAND	(D-NW)
	5.0				15	13			
		J3	8	13	10	15		(5.00) Red-Brown Silty CLAY , Sandy With Pieces Of Fine Gravel	(M-PL)
		J4	6	6	7	12		(7.00) Red-Brown Silty CLAY , Sandy	(M-PL)

- BOTTOM OF HOLE AT 9.00 ft
- 1. This boring was taken to provide overburden material for environmental screening, and a 3" split spoon sampler was used.
- 2. As all material was provided to consultant labs for testing, soil descriptions listed here are based solely on the field callouts.
- 3. Please refer to nearby boring FH-X-7 for soil descriptions and moisture content data.
- 4. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE CASING WATER			END OF DAY	
13-Sep-23	11:00	9.00	7.00	NONE		NO

DRILL RIG OPERATOR

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SOIL & ROCK DESCRIPTION Larry Muhammad Sr.

REG GEOTECHNICAL
ENGINEER Todd E. Nelson

DATE APPROVED 28-NOV-2023 REVISION # 1

RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.

SHEET 1 OF 1 HOLE FH-X-7e

A. Linstruth

CONTRACT _____ CONTRACTOR ___ CME Associates

	E 40/00															
PSN 282	E 12/02 124	72	В	ORNI	JM	14			STATE OF N MENT OF T	IEW YORK RANSPORTA	ATION		HOLE	FH-X-23		
REGI	ION 5	5					_			INEERING B			LINE			
COU	NTY E	RIE					_	SUBSUR	FACE EXP	PLORATIO	N LOG	=	STA			
PIN		512.5	2				_						OFFSET	ft		
PRO.				FNSI	NGT	ON F	_ EXPY T	TUNNEL SE	CTION				SURF. ELEV			
	JAL CO									DATUM	NAD8	33	DEPTH TO V		EE NOTE	:
					DATI			07-SEP-20	,	DATE FI		07-SEP				
CASII	NG O.	D . 6	5/8 i). 3	_		HAMMER-C			lb	HAMMER FAL	L-CASING		in
	PLER O.			n	I. D				HAMMER-S		140	lb	HAMMER FAL		30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		/	LER i		MOIST. CONT. (%)					N OF SOII	L AND ROCK			
	0.0							<u>(0.00)</u> (0.40)	`	LT Paveme RETE Paver						
		J1	15	25	43	46	6.4%	(1.20)	Gray-Bro	own Fine Sa	andy GR	AVEL			(M-	NPL)
	5.0	J2	3	3	3		13.6%	(4.50)	Gray-Bro	own Fine Sa	andy CL/	ĀY , Grav	velly		<u>(M</u>	-PL)
			•			REF		•	BOTTON	JOF HOLE	AT 6.00	0 ft				

- 1. Autohammer used for SPT at all sampling depths.
- 2. SPT refusal @ 6.0' below grade.
- 3. No rock core was drilled on this boring
- 4. Bore hole backfilled with spoils upon completion.

SOIL & ROCK DESCRIPTION La	arry Muhammad Sr.
REG GEOTECHNICAL	
ENGINEER Todd E. Nelson	
DATE APPROVED 28-NOV-2023	REVISION # 1
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N.
SHEET 1 OF 1	HOLE FH-X-23

A. Linstruth

DRILL RIG OPERATOR

CONTRACT ____ CONTRACTOR _ CME Associates

PSN REGI COUI PIN PRO. ACTU	NTY E 5 JECT N JAL COO	RIE 512.52 IY RT DRDIN D. 6	2 33, K IATES 5/8 ii	ENS (I	N) 1,(DAT	ON 060,9 E ST D. 3 D. 2	EXPY T 966.650 ART _		in
PR PR	E SES	SAI	0	/ /	12		(%)		
	0.0		6	12	18	24		(0.00) ASPHALT Pavement	
			<u> </u>				L	(0.40) CONCRETE Pavement	
		J1	18	37				(1.20) Gray-Brown Well Graded SAND , Silty With Gravel, Trace Slag	(D-NW)
					50			(2.30) Gray-Brown GRAVEL , Sandy With Silt	(M-NPL)
		J2	6				 	(4.00) Red-Brown Silty CLAY	
	5.0			9	13				
		D4				16	L	(6.00) Run #1 Drilled from 6'0" To 11'0" ROCK	
		R1						REC. 60" 100% 12 Pieces	
								NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	10.0								
		R2					T	(11.00) Run #2 Drilled from 11'0" To 16'0" ROCK REC. 60" 100% 15 Pieces	
								NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	15.0								
							1	BOTTOM OF HOLE AT 16.00 ft	
			1. Th	is boi	rina v	vas ta	aken to	provide overburden material for	

- environmental screening, and a 3" split spoon sampler was used. 2. As all material was provided to consultant labs for testing, soil desriptions listed here are based solely on the field callouts. Please refer to nearby boring FH-X-23 for SPT information, soil descriptions and moisture content data.
- 3. Sampler progressed 3" with 50 blows at 2.4'.4. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
07-Sep-23	13:30	16.00	6.00	NONE		NO

DRILL RIG OPERATOR

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

A. Linstruth SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL ENGINEER** Todd E. Nelson DATE APPROVED <u>28-NOV-2023</u> REVISION #1 RESIDENT ENGINEER STRUCTURE NAME B.I.N. HOLE FH-X-23e SHEET 1 OF 1

CONTRACT CONTRACTOR

SM 282 PSN	E 12/02 124	72	B	ABNII	IN/I	15			ATE OF NEW ONT OF TRAN		ATION			HOLE	FH-X-	77		
REG			. "	JIVIN	JIVI _	13	_	GEOTECHNIC						LINE				
							_	SUBSURF/	ACF EXPLO	RATIO	NIOG							
COU		RIE					_		,			=	₹.	STA				
PIN		512.52					_						_	FFSET	ft			
PRO.	JECT N	Y RT	33, K	ENS	<u>INGT</u>	ON E	EXPY T	UNNEL SECT	ΓΙΟΝ				SUR	F. ELEV	'. <u>617</u>	.6		
ACT	JAL CO	ORDIN	ATES	1) 6	N) 1,0	061,4	70.320	(E) 1,078,60	08.460 D	ATUM	NAD8	3	DEP.	TH TO V	VATER	SE	E NOTE	Ė
					DAT	E ST	ART	07-SEP-2023		DATE FI	NISH	07-SE	P-2023	3				
CASII	NG O. I	D . 6	5/8 i ı	า	1. [) . 3	1/4	n WT OF H	AMMER-CAS	ING	_	lb	HAM	MER FAL	L-CASIN	G		in
SAME	PLER O. I	D . 3	i	1	1. [) 2	3/8	n WT OF H	AMMER-SAM	PI FR	140	lb	НДМІ	MFR FAI	L-SAMP	FR	30	in
O/ 1.11.1				•			0,0	**** ***	timile Cortin		110		112 (11)		O/ um			
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	s	BLOV AMP	LER	in 18	MOIST. CONT. (%)			DESC	RIPTIO	N OF SO	OIL AND	ROCK				
	0.0			12	10			(0.00)_	ASPHALT I	Paveme	nt							
	0.0								CONCRET									
		J1	15				3.7%	` ′	Gray-Brown			⊼\7ET \/	Vith Die		Concret		_{(NA} T	NPL)
		JI	'3	27			3.170	(1.10)	Jiay-biowii	FILE 3	alluy Gr	AVELV	VILII FIE	eces Oi	Concret	E	(171-1	NFL)
				21	40													
					46	REF												
						'`												
		J2	50				L 11.3%	(3.50) \ (Gray Decom	nosed :	SHALE							NPL)
		-					. 1.0 /0	` , _	BOTTOM O			n ft)

- 3" split spoon sampler was used.
 Sampler progressed 1" with 50 blows at 4'.
 Bore hole backfilled with spoils upon completion

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
07-Sep-23	10:45	3.60	3.50	NONE		NO

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL** ENGINEER Todd E. Nelson DATE APPROVED <u>28-NOV-2023</u> REVISION #1 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-X-27 SHEET 1 OF 1

A.Linstruth

DRILL RIG OPERATOR

CONTRACT CONTRACTOR **CME** Associates

PSN			_ В0	ORN	UM _	11	_	DEPARTMENT OF				HOLE FH-X-27e			
REG		RIE					_	GEOTECHNICAL EN SUBSURFACE EX				LINE STA			
PIN	5	512.52		-NO	INIOT	-011	 	TINNEL OF OTION				OFFSET ft			
								UNNEL SECTION (E) 1,078,608.560	DATUM	NAD8	3	SURF. ELEV. 617.6 DEPTH TO WATER SEE I	NOTE		
					DAT	E ST	art _	06-SEP-2023	DATE FI		06-SEF	2-2023			
CASII	NG O. PLER O.		5/8 ir ir		I. C			in WT OF HAMMER in WT OF HAMMER		140	lb lb	HAMMER FALL-CASING HAMMER FALL-SAMPLER 3	in 0 in		
					vs o										
SING	FACE	SAMPLE NO.			LER		MOIST.		DESC	RIPTION	NOF SOL	L AND ROCK			
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAN	0	6	12	18	(%)		2200						
	0.0 6 12 18 24														
							L	(0.40) CONC	RETE Paver	ment					
		J1	15	24			3.7%	(1.10) Gray-B	rown Well-G	raded SA	AND , Gr	avelly, Trace Slag	(D-NW)		
		1			46										
			23				 11.3%	(3 10) Grav-B	rown Well-G	raded Gi	RAVFI .	Sandy Trace Silt	_(D-NW)		
	21 50 5.0														
	5.0 21 50														
	R1 (6.20) Run #1 Drilled from 6'2" To 11'2" ROCK REC. 58" 96.7% 15 Pieces														
	R1 (6.20) Run #1 Drilled from 6'2" To 11'2" ROCK REC. 58" 96.7% 15 Pieces														
	R1 (6.20) Run #1 Drilled from 6'2" To 11'2" ROCK REC. 58" 96.7% 15 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"														
	R1 (6.20) Run #1 Drilled from 6'2" To 11'2" ROCK REC. 58" 96.7% 15 Pieces														
	REC. 58" 96.7% 15 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"														
	REC. 58" 96.7% 15 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"														
	10.0														
	10.0 R2 (11.20) Run #2 Drilled from 11'2" To 16'2" ROCK														
	R2 (11.20) Run #2 Drilled from 11'2" To 16'2" ROCK REC. 24" 40% 15 Pieces														
		-													
	15.0														
		1			ļ	ļ		I BOTTC	M OF HOLE	AT 16.2	20 ft				
			1. Thi	s boi	ring v	vas ta	aken to	provide overburden i	material for						
										sed.					
			soil de	esrip	tions	listed	d here a	are based solely on th	ne field callo						
								ig FH-X-27 for soil ae	escriptions ar	10					
			5. 2.7	" dia	mete	r pied	e of gr								
			7. Boi	re ho	le ba	ckfille	ed with		on						
			*Revi	sed t	o add	d core	e barrei	data							
									DRILL RIG	OPERA1	TOR	A. Linstruth			
												Larry Muhammad Sr.			
pres	sented in	good fa	aith. E	By the	e natu	ıre of	the exp	oloration process,				on			
of th	R2 (11.20) Run #2 Drilled from 11'2" To 16'2" ROCK REC. 24" 40% 15 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE" BOTTOM OF HOLE AT 16.20 ft 1. This boring was taken to provide overburden material for environmental screening, and a 3" split spoon sampler was used. 2. As all material was provided to consultant labs for testing, soil desriptions listed here are based solely on the field callouts. Please refer to nearby boring FH-X-27 for soil descriptions and moisture content data. 3. Sampler progressed 1" with 50 blows at 4". 4. Sampler progressed 5" with 60 blows at 5'. 5. 2.7" diameter piece of gravel recovered in J3 6. Lost water return at 9.9" 7. Bore hole backfilled with spoils upon completion "Revised to add core barrel data DRILL RIG OPERATOR A. Linstruth SOIL & ROCK DESCRIPTION Larry Muhammad Sr. REG GEOTECHNICAL Seenled in good faith. By the nature of the exploration process, information represents only a small fraction of the total volume bar approved 28-NOV-2023 REVISION # 2														
not	J2 23 21 50 11.3% (3.10) Gray-Brown Well-Graded GRAVEL, Sandy, Trace Sitt (D-NW) S.0 J3 60														
												D.1.14			

CONTRACT

CONTRACTOR

CME Associates

HOLE FH-X-27e

SM 282	E 12/02				STATE OF	NEW YORK						
PSN	124	72	BORNUM	11	DEPARTMENT OF				HOLE _	FH-X-27	e	
REGI	ON 5	5			GEOTECHNICAL EN				LINE			
COU	NTY I	RIE			SUBSURFACE EX	.PLORATIO	N LOG	=	STA			
PIN	_ ;	5512.52)						OFFSET	ft		
PRO.	JECT I	NY RT	33, KENSING	TON EXPY	TUNNEL SECTION			S	SURF. ELEV.	617.6		
ACTU	JAL CO	ORDIN	ATES (N) 1	,061,501.670	0 (E) 1,078,608.560	DATUM	NAD8	3 🛚	EPTH TO W	ATER _	SEE NOTE	
			DA	TE START _	06-SEP-2023	DATE F	INISH _	06-SEP-2	2023			
CASI	NG O.	D . 6 5	5/8 in I	D . 3 1/4	in WT OF HAMMER	-CASING		lb H	IAMMER FALL	-CASING		in
SAMP	LER O.	D . 3	in I	D . 2 3/8	in WT OF HAMMER	SAMPLER	140	lb H	IAMMER FALL	-SAMPLE	R 30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS SAMPLE	MOICT		DESC	CRIPTIO	N OF SOIL A	AND ROCK			

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
06-Sep-23	14:00	16.20	6.20	NONE		

SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL
ENGINEER Todd E. Nelson
DATE APPROVED 28-NOV-2023 REVISION # 2
RESIDENT ENGINEER
STRUCTURE NAME B.I.N.

SHEET 2 OF 2 HOLE FH-X-27e

A. Linstruth

DRILL RIG OPERATOR

CONTRACT _____ CONTRACTOR ___ CME Associates

	2 E 12/02										EW YORK			<u> </u>			
PSN REG			_ В	ORN	UM _	7_	_				RANSPORT INEERING I			HOLE	FH-X-32		
COU		RIE					_	SUE	BSURF	FACE EXP	PLORATIO	N LOG	=	STA			
PIN		512.52	2				_						_	OFFSET	ft		
PRO	JECT N	IY RT	33, K	ENS	INGT	ON	EXPY 1	TUNNE	EL SEC	CTION				SURF. ELEV	/. 618.3		
ACT	UAL COC	ORDIN	ATES								DATUM		33	DEPTH TO \	NATER _	SEE NOTE	Ξ
					DAT				EP-20		DATE F	INISH _		P-2023			
CASI			5/8 i i			D. 3				HAMMER-C			lb 	HAMMER FAI			in
SAMI	PLER O. I	D. 2		n	1. [D . 1	3/8	in \	WT OF	HAMMER-S	SAMPLER	140	lb	HAMMER FAI	LL-SAMPLER	R 30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.			NS O PLER		MOIST.				DESC	CRIPTIO	N OF SO	IL AND ROCK	ζ.		
S B C S		SA	0 6	6 12	12 18	18 24	(%)										
	0.0								0.00) 0.40)		LT Paveme						
	\vdash \dashv	J1	8		-		 11.9%	<u>`</u>	1.00)		ETE Pave wn Gravel					_{(M-}	NPL)
		"	ਁ	22			11.570	۱ '	1.00)	Стеу-ыс	WII Glavel	IY SAINL	,			(141-	1 4 1 L)
					27												
		R1				REF		(2.50)	REC. 6	Orilled from 0" 100% IBLE TUBE	13 Pie	ces				
	5.0																
	3.0																
	L -																
		R2					 	<u> </u>	7.50)	Run #2 F	Drilled from	7'6" To	12'6" R	80CK			
	\vdash							\ \ \	,	REC. 6	0" 100%	13 Pie	ces				
										NQ DOU	IBLE TUBE	E, SWIV	EL "WIR	ELINE"			
	40.0																
	10.0																
	\vdash \dashv																
	oxdot																
				L	<u> </u>	L				DOTTO!	1 OF HOU	- 4- 40	50 ft				
										ROTION	л of Holi	= AT 12.	JT UC.				

DRILL RIG OPERATOR

- 1. Autohammer used for SPT at all sampling depths.
- 2. Split Spoon refusal at 2.5'
- 3. Bore hole backfilled with spoils upon completion.

^{*}Revised to correct coordinates

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIL	HOLE	CASING	WATER		END OF DAY
11-Sep-23	15:40	12.50	2.50	11.50		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL** ENGINEER Todd E. Nelson DATE APPROVED <u>28-NOV-2023</u> REVISION # 2 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-X-32 SHEET 1 OF 1

A. Linstruth

CONTRACT CONTRACTOR **CME** Associates

PSN PSN REG			. В	ORNI	JM _	16	_			RANSPORT			HOLE LINE	FH-X-34		
COU PIN	NTY E	RIE 512.52		ENSI	INGT	ON E	- - EXPY T	SUBSURI UNNEL SE		PLORATIO	N LOG	=	STA OFFSET SURF. ELEV	ft . 625.14		
	UAL CO			1)_ 6		062,4	47.050		610.140	DATUM DATE F		3 11-SEF	DEPTH TO V		EE NOTE	
CASI	NG O. PLER O.		5/8 iı iı		1. D				HAMMER-C		140	lb lb	HAMMER FAL		30	in in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOW BAMP	LER i	in 18	MOIST. CONT. (%)			DESC	CRIPTION	N OF SOI	L AND ROCK			
	0.0							(0.00) (0.40)	\	T Paveme						
		J1	20	40	50		13.1%	(1.10)	Gray-Bro	wn Graveli	Īy SĀND				(M-N	PL)
	5.0	J2	23	50			11.1%	(3.50)	Gray-Bro	wn Sandy	GRAVEI				(M-N	PL)

BOTTOM OF HOLE AT 6.10 ft

- 3" split spoon sampler was used.
 Sampler progressed 3" with 50 blows at 2'.
 Sampler progressed 5" with 50 blows at 4'.
 No rock core drilled on this boring.

- 5. Bore hole backfilled with spoils upon completion.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
11-Sep-23	13:50	6.10	6.10	NONE		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

SOIL & ROCK DESCRIPTION Larry Muhammad Sr. **REG GEOTECHNICAL** ENGINEER Todd E. Nelson DATE APPROVED <u>28-NOV-2023</u> REVISION #1 RESIDENT ENGINEER STRUCTURE NAME B.I.N. _ HOLE FH-X-34 SHEET 1 OF 1

A. Linstruth

DRILL RIG OPERATOR

CONTRACT CONTRACTOR **CME** Associates

SM 282 PSN REG	ION _	472 5 ERIE	_ B(ORN	UM .	12		GEOTE	ARTME CHNIC	NT OF CAL EN	NEW YOR TRANSPO IGINEERING XPLORAT	RTATIO G BURE	AU =		HOLE LINE STA	FH-X-3	4e		
PIN	_	5512.5		ENIC	INICI	CON		TI ININITI	SECT	TON					OFFSET	ft	1.4		
								<u>ΓUNNEL</u>) (E) 1,			DATU	M N	AD83		SURF. ELEV. DEPTH TO W			NOTE	
						E ST		11-SE				FINISH	4 <u> </u>	 11-SEP-	2023				
CASI			5/8 ir		1.1		3 1/4				R-CASING				HAMMER FALI				in
SAMI	PLER O.	1	ir	1	1. 1). Z	2 3/8	in W⊺	OF HA	AMMER	R-SAMPLER	140)	lb	HAMMER FALI	SAMPLI	ER .	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	AMP	LER	in 18	MOIST CONT. (%)				DE	SCRIP	TION (OF SOIL	AND ROCK				
	0.0		6	/ 12	/ 18	24		(0.	00)/	ASPH	ALT Pave	ment							
		14	04				L	`_			RETE Pa							- ,	
		J1	21	43				(1.	00) (₃rey-B	rown Grav	elly SA	AND					(M-N	NPL)
					26														
		J2	19			REF	<u> </u>		<u></u>	rov P	rown San	<u> </u>							<u> 1017</u>
		32	'3	18				(5.	00) C	эгеу-ы	iowii Saii	лу ОТСР	VLL					(101-1	NFL)
		Ī			50														
	5.0	J3	50				⊢		001 6	arev-P	rown San	TV CEV							ΔĐΙ Τ
		R1	00				 	⊥	,	•	Drilled fro	•			CK			(141-1	· L)
]						(3.	´ F	REC.	60" 1009	6 11	Pieces	3					
	<u> </u>	-							N	NQ DC	UBLE TU	BE, SV	VIVEL	"WIRE	LINE"				
	L _																		
		1																	
	10.0																		
		D2					L	L-45	<u> </u>		Drillod fro		···	15'7" D					
		R2						(10.	. F	REC.	2 Drilled fro 59" 98.3	% 10	Piece	s					
		_							N	NQ DC	UBLE TU	BE, SV	VIVEL	"WIRE	LINE"				
		1																	
	<u> </u>																		
	15.0																		
									Е	BOTTO	OM OF HO	LE AT	15.60	ft					
			enviro 2. As soil de Pleas moist 3. Sai 4. Sai 5. Sai 7. Soi	onme all m esripa e refa ure c mplea mplea mplea ild ste	ntal lateritions er to onte on te on	scree al wa listed near nt dat gress usal a gress gress ncoul	ening, a s provi d here by bori ta. sed 2" v t 2.5'. sed 4" v sed 5" v ntered	nd a 3" s ded to co are base	split sp onsulta d solel 34 for lows at lows at to 6.3	oon sant lab ly on to soil de t 2'. t 4'. t 5'.	material fo ampler was s for testin he field ca escriptions	s used. g, llouts.							
			D	ATE		TIM		HOLE	DEP1		WATER	HEA	RTESI D HE	IGHT	FILLED W	AT			
			44.	.	+	40					WATER	AROA	'∟ GR	OUND	END OF D	AY			
				Sep-2		13:		6.10	6.1		NONE				NO				
and acce pres the of th	estimate ess to the sented in informati	e purpose e same good fa on repr	ses. I inforn aith. E esents e site.	t is m nation By the s only Inte	ade a n ava e nati v a sr rpola	availa ilable ure of nall fr tion b	able so to the the exp action etweer	tained for that users State. It i ploration of the tota data san red.	s may l is proces al volur	have :s, ne	DATE AF	ROCK E OTECH EER _ PPROV NT ENG	DESCF INICAI Todd E ED 2 BINEEI	RIPTION L E. Nelso 8-NOV-	n	ammad S			
											STRUCT	UKE N	AIVIE			B.I.N.			
COI	NTRACT		(CONT	TRAC	TOR		ME Ass	ociates	S	SHEET	1 OF 1	l		HOL	E Fh	1-X-3	84e	

EXISTING (PRE-2023) SOIL BORING DATA AND LOGS

Key#	Sta.	Y axis	PSN	вн	Date Start	Date Finish	Surface Elev. (ft - NGVD29))	Layer Start (ft)	Layer End (ft)	H (ft)	Notes / Description	Core D(ft)	Rec.	EST'D Rock El. (NGVD29)	EST'D Rock El. (NAVD88)
1	12243	110	11112	2	10/9/2007	10/10/2007	631.06	0.00	5.00	5.00	Gray Brown Fine Sandy SILT	COIC D(IL)	Nec.	(NOVD25)	(IVAVDOO)
_	122.13	110		_	10/3/2007	10/10/2007	(NAVD88)	5.00	9.00	4.00	Brown Fine Sandy SILT				
							,	9.00	14.00	5.00	Rock-rock REC 54"	5.00	90%	622.1	622.1
2	12262.5	64	262	103	9/11/1959	9/11/1959	632.27	0.00	0.33	0.33	Brown Topsoil				
								0.33	14.83	14.50	Brown Silt and sand, some fine stone. Limestone rock encountered at 14.83 ft	-	-	617.4	616.9
3	12263.5	-7.5	262	102	9/11/1959	9/11/1959	631.04	0.00	0.33	0.33	Brown Topsoil				
								0.33	9.00	8.67	Red Brown Silt, some Sand and Clay, Trace fine stone. Limestone rock encountered at 9 ft	-	-	622.1	621.5
4	12239.25	-22	262	24	3/28/1957	3/29/1957	630.79	0.00	9.00	9.00	Black Brown Silt and Gravel, Some stone, Trace clay and Sand- Fill material				
								9.00	14.00	5.00	Rock- Seamed REC 60"	5.00	100%	621.8	621.3
5	12277.5	-109	11112	1	10/10/2007	10/10/2007	629.59	0.00	5.00	5.00	Gray Fine Sandy Silt, Clayey				
							(NAVD88)	5.00 6.50	6.50 9.80	1.50 3.30	Brown Fine Sandy Silt Rock REC 39"	3.30	98%	623.1	623.1
-	12267	60	262	101	9/11/1959	9/11/1959	631.14	0.00	5.00	5.00		3.30	98%	623.1	623.1
6	12267	-60	262	101	9/11/1959	9/11/1959	631.14	5.00	6.50	1.50	Gray Fine Sandy Silt, Clayey Brown Fine Sandy Silt				
								6.50	9.83	3.33	Rock REC 39"			624.6	624.1
7	12010	-48	8694	5	9/20/1999	9/20/1999	_	0.00	0.33	0.33	Brown Topsoil	-	+	024.0	024.1
,	12010	-40	8034	٦	3/20/1333	3/20/1333	-	0.33	12.75	12.42	Red Brown Silt, Some Clay and Sand, Trace Fine Stone. Limestone rock encountered at 12.75ft	_	_	_	-
8	11954.5	1	262	11	10/5/1965	10/6/1965	634.1	0.00	0.30	0.30	Topsoil		1		
		_			,-,	,-,	*****	0.30	5.00	4.70	Brown Red Silt, Some clay and fractured stone				
								5.00	14.75	9.75	Red Brown Silt, some clay				
								14.75	15.75	1.00	Seamed and Broken REC 11"	-	-		
								15.75	17.75	2.00	Seamed and Broken REC 22"	-	-		
								17.75	19.75	2.00	Seamed and Broken REC 24"	-	-		
								19.75	21.75	2.00	Seamed and Broken REC 24"	7.00	96%	619.4	618.8
9	11780	-20	262	12	10/14/1965	10/15/1965	634.5	0.00	0.70	0.70	Topsoil				
								0.70	10.00	9.30	Red Brown silt, some clay, trace fractured stone				
								10.00	13.58	3.58	Red Brown silt, some clay				
								13.58	14.58	1.00	Seamed and Broken REC 12"	-	-		
								14.58	16.58	2.00	Seamed and Broken REC 23"	-	-		
								16.58	18.50	1.92	Seamed and Broken REC 23"	4.92	98%	620.9	620.4
10	11741	27	262	9	10/6/1965	10/13/1965	635.02	0.00	0.70	0.70	Topsoil				
								0.70	5.00	4.30	Brown silt, some sand and fractured stone, trace clay				
								5.00	10.00	5.00	Red brown silt, some clay, trace fine fractured stone				
								10.00	13.92	3.92	Red brown silt, some clay		_		
								13.92 14.92	14.92 16.92	1.00 2.00	Seamed and Broken REC 11" Seamed and Broken REC 24"		_		
								16.92	18.92	2.00	Seamed and Broken REC 23"	5.00	97%	621.1	620.6
11	11485	39.5	262	8	10/15/1965	10/20/1965	635.44	0.00	0.50	0.50	Topsoil	3.00	3776	021.1	020.0
-11	11403	33.3	202	٥	10/13/1303	10/20/1303	033.44	0.50	10.00	9.50	Red Brown Silt, Trace to some clay				
								10.00	14.33	4.33	Red Brown silt, some clay				
								14.33	15.33	1.00	Seamed and Broken REC 11"	-	-		
								15.33	17.33	2.00	Seamed and Broken REC 24"	-	-		
								17.33	19.33	2.00	Seamed and Broken REC 24"	5.00	98%	621.1	620.6
12	11324	45.75	8694	8	9/22/1999	9/22/1999	-	0.00	2.80	2.80	Gray Brown Gravelly sand, silty with slag				
								2.80	3.50	0.70	Brown Gravelly Sand, Silty				
								3.50	5.50	2.00	Gray Brown Gravelly sand, silty with slag				
								5.50	6.50	1.00	Limestone REC 10.8"	1.00	90%	-	-
13	11241.5	-30	262	10	10/20/1965	10/26/1965	635.45	0.00	0.40	0.40	Topsoil				
								0.40	5.00	4.60	Red Brown Silt, Trace to some clay, Trace fine fractured stone				
								5.00	15.00	10.00	Red Brown Silt, Some Clay				
								15.00	16.67	1.67	Red Brown Silt, Some Clay, Trace Sand and Fractured stone	_			
								16.67	17.67	1.00	Seamed and Broken REC 12"	-	-		640.0
	4467			-	0 (0.0 (a (am ' · · · ·		17.67	19.67	2.00	Seamed and Broken REC 24"	3.00	100%	618.8	618.3
14	11031	28	262	23	3/26/1957	3/27/1957	634.92	0.00	15.00	15.00	Red Silt, Some Clay				
					1			15.00	19.00	4.00	Red Silt, Some Clay	_	1		
					1			19.00	21.75	2.75	Seamed and Hard REC 27"	2.75	- 0701	642.2	642.7
					l .	l		21.75	22.75	1.00	Seamed and Hard REC 12"	3.75	87%	613.2	612.7

													1		
							Surface Elev.	Layer Start	Layer End	н				EST'D Rock El.	EST'D Rock El.
Key #	Sta.	Y axis	PSN	вн	Date Start	Date Finish	(ft - NGVD29))	(ft)	(ft)	(ft)	Notes / Description	Core D(ft)	Rec.	(NGVD29)	(NAVD88)
15	10989	-34	262	5	12/3/1965	12/7/1965	634.7	0.00	0.30	0.30	Topsoil				
								0.30	5.00	4.70	Brown Silt, trace to some clay				
								5.00	20.25	15.25	Red brown silt, some clay				
								20.25	25.01	4.76	Seamed and Broken REC 57"	4.76	100%	614.5	613.9
16	10873	35.5	262	2	12/7/1965	12/9/1965	634.39	0.00	0.60	0.60	Top Soil				
								0.60	5.00	4.40	Red Brown Silt, Some Clay				
								5.00	6.50	1.50	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
								6.50	10.00	3.50	Red Brown Silt, Some Clay				
								10.00	11.67	1.67	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
								11.67	15.00	3.33	Red Brown Silt, Some Clay				
								15.00	16.67	1.67	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
								16.67	17.00	0.33	Red Brown Silt, some clay				
								17.00	18.00	1.00	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
								18.00	21.80	3.80	Red Brown Silt, some clay				
		1	l					21.80	23.80	2.00	Seamed and Broken REC 24"	-	-		
\vdash				\sqcup				23.80	25.80	2.00	Seamed and Broken REC 24"	4.00	100%	612.6	612.1
17-R1	10858	84	12472	1	8/15/2017	8/17/2017	633.74	0.00	5.00	5.00	Gray Brown Gravelly Silt, Sandy				
							(NAVD88)	5.00	10.00	5.00	Gray Gravelly Sand, Silty				
								10.00	15.00	5.00	Gray Coarse-Grained Sandy Gravel				
								15.00	20.30	5.30	Brown Clay, sandy				
								20.30	25.30	5.00	Rock	5.00	100%		
								25.30	30.30	5.00	Rock	5.00	100%		
								30.30	35.30	5.00	Rock	3.67	74%		
								35.30	40.30	5.00	Rock	5.00	100%		
								40.30	45.30	5.00	Rock	5.00	100%		
\blacksquare								45.30	50.30	5.00	Rock	5.00	100%	613.4	613.4
18	10794	-31	262	22	3/22/1957	3/26/1957	639.22	0.00	9.00	9.00	Red Gray Silt, Some clay				
								9.00	15.00	6.00	Red Silt, Some clay				
								15.00	18.00	3.00	Red Brown Silt, Some Clay				
								18.00	24.00	6.00	Red Brown Silt, Some clay, Trace Sand and Fine Garvel				
								24.00	28.67	4.67	Rock, Seamed and Hard REC 54"	4.67	96%	615.2	614.7
19	10696.5	40	262	6	10/26/1965	10/28/1965	635.12	0.00	0.40	0.40	Top soil				
								0.40	10.00	9.60	Red Brown silt, some clay, trace fractured stone				
								10.00	20.00	10.00	Red Brown Silt, some clay				
								20.00	25.00	5.00	Red Gray Silt, Some sand and clay, Trace fractured Stone				
								25.00	25.75	0.75	Red Gray Silt, Some sand and Fractured stone				
								25.75	26.92	1.17	Rock, seamed and broken REC 12"		-		
	40000 5		0.00	\vdash	0/00/105-	1/00/1005		26.92	30.92	4.00	Rock, seamed and broken REC 48"	5.17	97%	609.4	608.9
20	10638.5	-25	262	4	3/29/1966	4/26/1966	635.76	0.00	1.00	1.00	Topsoil				
			l					1.00	2.50	1.50	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
			l					2.50 4.00	4.00 5.50	1.50 1.50	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
			l					4.00 5.50	7.00	1.50	Red brown silt, trace to some clay				
			l						7.00 8.50		Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
			l					7.00 8.50	8.50 10.00	1.50 1.50	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log Red brown silt, trace to some clay, trace sand				
			l						10.00	1.50					
			l					10.00 11.50	11.50	1.50	Red brown silt, some clay Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
			l					11.50	13.00 14.50	1.50					
		1	l					13.00	14.50 16.00	1.50	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log		1		
		1	l					14.50 16.00	16.00 17.50	1.50			1		
			l					16.00 17.50	17.50 19.00	1.50	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
			l					17.50	19.00 20.50	1.50	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
			l							1.50	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
			l					20.50 22.00	22.00 23.50	1.50	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log				
			l					22.00	23.50 25.00	1.50	Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log Brown Sand, Some Silt, Trace Clay				
			l					25.00	25.00	1.75	Brown sand, some sand and fractured stone, trace clay				
			l					25.00	26.75	1.75	Rock, seamed and broken REC 12"	1		609.0	608.5
		<u> </u>						20.73	21.13	1.00	nock, scance and prokerince 12	_	<u> </u>	005.0	000.3

23 964		Y axis 26 41 -8 -34	262 8694	BH 7	Date Start 10/2/1965 9/22/1999	Date Finish 11/1/1965	(ft - NGVD29)) 636.54	(ft) 0.00 0.50 15.00 20.00 20.42	(ft) 0.50 15.00 20.00	(ft) 0.50 14.50	Notes / Description Topsoil	Core D(ft)	Rec.	(NGVD29)	(NAVD88)
22 968 23 964	9685 9648	41 -8	8694		,,	11/1/1965	636.54	0.50 15.00 20.00	15.00 20.00		Topsoil				
23 964	9648	-8			9/22/1999			15.00 20.00	20.00	14.50					
23 964	9648	-8			9/22/1999			20.00			Red Brown Silt, Some Clay				
23 964	9648	-8			9/22/1999				20.42	5.00 0.42	Red Brown silt, some clay, trace fractured stone Red Brown Silt, Some fractured stone and clay, trace sand				
23 964	9648	-8			9/22/1999				21.42	1.00	Rock, Seamed and Broken REC 12"	_	_		
23 964	9648	-8			9/22/1999			21.42	23.42	2.00	Rock, Seamed and Broken REC 22"		_		
23 964	9648	-8			9/22/1999			23.42	25.42	2.00	Rock, Seamed and Broken REC 24"	5.00	97%	616.1	615.6
			262			9/22/1999	-	0.00	5.20	5.20	Gray Brown Gravelly sand, silty with slag				
			262					5.20	6.20	1.00	Limestone REC 10.8"	-	-	-	-
24 959	9590	-34		21	3/20/1957	3/22/1957	640.18	0.00	18.00	18.00	Red Silt, some clay				
24 959	9590	-34						18.00	24.00	6.00	Red Gray Silt, Some clay, trace very fine sand and fine gravel				
24 959	9590	-34						24.00	29.00	5.00	Rock, Hard REC 55"	5.00	92%	616.2	615.7
			262	1	12/23/1965	12/28/1965	640.17	0.00	0.37	0.37	Top Soil				
								0.37	5.00	4.63	Black Silt, Trace Sand and Organic				
								5.00	20.00	15.00	Red Brown Silt, some clay, trace sand and fractured stone				
		ļ						20.00 21.50	21.50 25.00	1.50 3.50	Lost sample Red brown silt, some slav, trace cond and freetured stone				
I		J						21.50 25.00	25.00 25.58	0.58	Red brown silt, some clay, trace sand and fractured stone Lost sample				
		J						25.00	25.58	3.75	Rock, Seamed and Broken REC 42"		1		
		J						29.33	30.58	1.25	Rock, Seamed and Broken REC 15"	5.00	95%	614.6	614.1
25 932	9328	-45	8694	4	9/15/1999	9/15/1999	-	0.00	3.50	3.50	Gray Sandy Angular gravel		00.1		
		-			-, -,	., .,		3.50	6.50	3.00	Gray Sandy Angular Gravel, silty				
								6.50	8.00	1.50	Gray Sandy Angular Gravel, Silty Clayey				
								8.00	11.00	3.00	Gray Sandy Angular Gravel				
								11.00	12.20	1.20	Gray sandy angular gravel, with wood				
								12.20	13.20	1.00	Limestone REC 10.8"	1.00	90%	-	-
26 923	9236	91.5	262	15	11/2/1955	11/4/1955	649.44	0.00	11.00	11.00	Red Brown Silt, Some clay, trace sand and gravel				
								11.00	25.00	14.00	Red Gray Silt, Some clay, Trace sand and gravel				
								25.00	30.25	5.25	Red Gray Silt, Some clay, Trace sand and gravel			-	-
27 924	9242	31.5	262	14	11/4/1955	11/7/1955	649.33	0.00	10.00	10.00	Red Brown Silt, some clay, trace sand and gravel				
								10.00	25.00	15.00	Red Gray Silt, Some clay, trace sand and gravel				
								25.00	29.84	4.84	Red Gray Silt, Some clay, Trace sand and gravel			624.3	623.8
28 921	9212	10.5	262	13	10/19/1955	10/19/1955	650.1	0.00	25.00	25.00	No sample taken				
								25.00	31.67	6.67 3.00	No sample taken	2.00	4000/	640.4	617.9
20 000	2002	6.5	262	2	44/2/4005	44 (0 (4005	CF 4.2C	31.67	34.67		Rock, Seamed and broken REC 36"	3.00	100%	618.4	617.9
29 886	3862	6.5	262	3	11/3/1965	11/9/1965	654.36	0.00 0.40	0.40 5.00	0.40 4.60	Topsoil Red Brown Silt, Trace to some clay				
								5.00	10.00	5.00	Red Brown Silt, Trace to some clay, trace sand				
								10.00	25.00	15.00	Red Brown Silt, Nace to some clay, trace said				
I		J						25.00	35.00	10.00	Red Brown Silt, Some clay and tractured stone				
I		J						35.00	38.16	3.16	Red Brown Silt, Some Clay, Trace Sand and Fractured Stone				
I		J						38.16	40.16	2.00	Rock, Seamed and Broken REC 23"	-	-		
I		J						40.16	41.66	1.50	Rock, Seamed and Broken REC 12"	-	-		
							<u> </u>	41.66	43.16	1.50	Rock, Seamed and Broken REC 17"	5.00	87%	616.2	615.7
30 108.	.08.5	-63	262	16	11/7/1955	11/10/1955	648.24	0.00	14.00	14.00	Gray Brown Silt, Some Clay, Trace Sand and Fine Gravel				
I		J						14.00	25.00	11.00	Gray Silt, Trace Sand, Clay and Gravel				
		J						25.00	39.00	14.00	Gray Silt, Trace Sand, Clay and Gravel				
								39.00	42.92	3.92	Gray Silt, Some sand and Fine Gravel, Trace Clay = No Rck Core		لــــــا	609.2	608.7
31 841	3413	59.5	11444	77	9/16/1955	9/21/1955	658.69	0.00	6.00	6.00	Mottled Yellow Brown Gray SILT , Some Sand, Trace Clay And Fine Gravel				
I		J						6.00	14.00	8.00	Gray SILT , Some Sand, Trace Clay				
I		J						14.00	25.00	11.00	Red Gray SILT , Some Clay, Trace Sand And Fine Grave				
I		ļ						25.00	45.08	20.08	Red Gray SILT , Some Clay, Trace Sand And Fine Grave				
- 22	2220	00	444	70	0/0//	0/43/2022	657.00	45.08	50.00	4.92	Rock, Seamed and Broken REC 59"	4.92	100%	613.6	613.1
32 832	3329	-90	11444	79	9/9/1955	9/13/1955	657.36	0.00	8.00	8.00	Brown Silt, Some sand, Trace Fine Gravel				
I		J						8.00	14.00	6.00	Red Gray Silt, Some Clay, Trace Fine Gravel and Sand				
I		ļ						14.00	22.00	8.00	Red Gray Silt, Some Sand and Fine Gravel, Trace Clay				
I		ļ						22.00 25.00	25.00 35.00	3.00 10.00	Red Gray Fine Sand, Some Silt Red Gray Fine Sand, Some Silt				
I		ļ						25.00 35.00	35.00 41.92	10.00 6.92	Gray Silt, Some Clay, Sand and Fine Gravel				
I		ļ						41.92	46.58	4.66	Rock, Seamed REC 54"	4.66	97%	615.4	614.9

Key#	Sta.	Y axis	PSN	вн	Date Start	Date Finish	Surface Elev. (ft - NGVD29))	Layer Start (ft)	Layer End (ft)	H (ft)	Notes / Description	Core D(ft)	Rec.	EST'D Rock El. (NGVD29)	EST'D Rock El. (NAVD88)
33	8301.5	1	11444	73	9/16/1955	9/20/1955	658.22	0.00	1.00	1.00	Black Silt, some sand and organic	, ,		,,	,
								1.00	2.00	1.00	Yellow Brown Sand, Trace Silt and Gravel				
								2.00	3.00	1.00	Gray Brwon Sand, Trace Silt and Gravel				
								3.00	5.00	2.00	Red Brown Silt, Some Clay, Trace Sand				
								5.00	25.00	20.00	No sample taken				
								25.00	45.84	20.84	No sample taken				
								45.84	50.84	5.00	Rock, seamed and broken REC 60"	5.00	100%	612.4	611.9
34	8283	54	11444	75	9/20/1955	9/22/1955	658.09	0.00	7.00	7.00	Yellow Brown Silt, Some Sand, Trace Clay				
								7.00	15.00	8.00	Red Brown Silt, Some clay, Trace Sand				
								15.00 25.00	25.00 29.00	10.00	Red Gray Silt, Some Clay and Sand, Trace Gravel				
								25.00		4.00	Red Gray SILT , Some Clay And Sand, Trace Gravel				
								43.17	43.17 48.17	14.17 5.00	Red Gray SILT , Some Sand, Fine Gravel And Clay Rock, Seamed And Broken REC. 60"	5.00	100%	614.9	614.4
35	8194	64	11444	74	9/13/1955	9/15/1955	657.76	0.00	10.00	10.00	Brown Silt, Some sand	5.00	100%	014.9	014.4
33	6194	04	11444	74	9/13/1933	9/15/1955	037.70	10.00	24.00	14.00	Red Gray Silt, Some Clay, Trace sand and fine gravel				
								24.00	25.00	1.00	Red Gray Silt, Some Clay, Trace sand and fine graver		1	1	
								25.00	43.17	18.17	Red Gray SILT , Some Clay, Gravel And Sand		1		
								43.17	48.17	5.00	ROCK . Seamed REC. 42"	5.00	70%	614.6	614.1
36	8190.5	4.5	11444	76	9/8/1955	9/12/1955	657.16	0.00	10.00	10.00	Red Brown SILT , Some Sand, Trace Clay		†	l	
					., -,	.,,	*****	10.00	16.00	6.00	Gray Brown SILT AND SAND , Trace Clay And Gravel		1		
								16.00	25.00	9.00	Gray Brown SILT , Some Clay, Trace Sand And Fine Gravel		1		
								25.00	43.17	18.17	Gray Brown SILT , Some Clay, Trace Sand And Fine Gravel				
								43.17	48.17	5.00	ROCK , Continuous Seamed REC. 60"	5.00	100%	614.0	613.5
37	8250	-111	11444	78	9/14/1955	9/15/1955	656.15	0.00	8.00	8.00	Brown SILT , Some Sand				
								8.00	25.00	17.00	Red Gray SILT , Some Clay, Trace Fine Gravel				
								25.00	28.00	3.00	Red Gray SILT , Some Clay, Trace Fine Gravel				
								28.00	38.83	10.83	Gray SILT , Some Gravel, Clay And Sand				
								38.83	43.58	4.75	ROCK , Seamed REC. 34"	4.75	60%	617.3	616.8
38	8044	81	11444	72	9/18/1955	9/21/1955	657.03	0.00	13.00	13.00	Red Brown SILT , Some Clay, Trace Sand And Fine Gravel				
								13.00	25.00	12.00	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel				
								25.00	26.00	1.00	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel				
								26.00	40.75	14.75	Brown Gray SILT , Some Clay, Sand And Fine Gravel				
								40.75	45.75	5.00	ROCK , Seamed And Broken REC. 60"	5.00	100%	616.3	615.8
39	7714	-29	11444	82	3/15/1956	3/19/1956	652.13	0.00	14.00	14.00	Brown SILT , Some Clay, Trace Fine Sand				
								14.00	15.00	1.00	Red Gray SILT , Some Clay				
								15.00	17.00	2.00	Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG				
								17.00	19.00	2.00	Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG		1		
								19.00 21.00	21.00 23.00	2.00 2.00	Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG		1		
								23.00	25.00	2.00	Description of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG		1		
								25.00	27.00	2.00	Description of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG		1		
								27.00	29.00	2.00	Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG		1		
						1		29.00	30.66	1.66	Gray GRAVEL AND SILT. Some Sand - No Rock Core	_	1 -	623.1	622.6
40			11444	66	9/27/1955	9/28/1955	654.49	0.00	11.00	11.00	Yellow Brown SILT , Some Sand, Trace Clay		1		
					-, , 2000			11.00	25.00	14.00	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel		1	1	
								25.00	33.67	8.67	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel		1		
						l		33.67	36.33	2.66	ROCK , Seamed And Broken REC. 28"	-	-		
						1		36.33	39.33	3.00	ROCK , Seamed And Broken REC. 32"	5.66	88%	620.8	620.3
41			11444	64	9/23/1955	9/26/1955	650.88	0.00	9.00	9.00	Yellow Brown SILT , Some Sand				
								9.00	25.00	16.00	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel		1		
						l		25.00	27.00	2.00	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel		1		
								27.00	30.48	3.48	Gray SILT , Some Gravel, Sand And Clay		1		
						1		30.48	35.50	5.02	ROCK , Seamed And Broken REC. 60"	5.02	100%	1	
								35.50	37.50	2.00	ROCK REC. 24"	7.02	100%	620.4	619.9
42	7490	158	11444	63	9/27/1955	9/28/1955	652.63	0.00	8.00	8.00	Yellow Brown SAND AND SILT				
						1		8.00	25.00	17.00	Gray Brown SILT , Some Clay And Sand, Trace Gravel		1	1	
						l		25.00	31.75	6.75	Gray Brown SILT , Some Clay And Sand, Trace Gravel		1		
								31.75	36.75	5.00	ROCK , Seamed And Broken REC. 60"	5.00	100%	620.9	620.4

Key#	Sta.	Y axis	PSN	вн	Date Start	Date Finish	Surface Elev. (ft - NGVD29))	Layer Start (ft)	Layer End (ft)	H (ft)	Notes / Description	Core D(ft)	Rec	EST'D Rock El. (NGVD29)	EST'D Rock El. (NAVD88)
43	7491	116	11444		9/23/1955	9/26/1955	652.27	0.00	0.50	0.50	Black SILT , Some Sand And Organic - Topsoil	core D(it)	cu	(.101523)	(10/12/200)
-15	, 131	110	22	03	3,23,233	3,20,2333	032.27	0.50	1.50	1.00	Brown Black SILT , Some Sand, Trace Organic And Clay				
								1.50	3.50	2.00	Brown SAND , Some Silt				
								3.50	5.00	1.50	Yellow Brown SAND , Some Silt				
								5.00	25.00	20.00	No sample taken				
								25.00	31.50	6.50	No sample taken				
								31.50	36.50	5.00	ROCK , Seamed And Broken REC. 60"	5.00	100%	620.8	620.3
44	7436	33	11444	65	9/27/1955	9/28/1955	650.51	0.00	11.00	11.00	Yellow Brown SILT , Some Sand, Trace Clay And Fine Gravel				
								11.00	25.00	14.00	Red Gray SILT , Some Clay, Trace Fine Sand And Gravel				
								25.00	30.25	5.25	Red Gray SILT , Some Clay, Trace Fine Sand And Gravel				
	2100				0/00/1055	0/00/1055		30.25	35.25	5.00	ROCK , Seamed And Broken REC. 60"	5.00	100%	620.3	619.7
45	7483	3	11444	70	9/29/1955	9/29/1955	650.08	0.00 2.00	2.00 2.42	2.00	Black Brown Silt, Some Sand and Organic, Trace Clay				
								2.00	5.00	0.42 2.58	Brown Sand, Some Silt Mottled Yellow Brown Gray Silt and Sand, Trace Clay				
								5.00	25.00	20.00	No sample taken				
								25.00	29.42	4.42	No sample taken				
								29.42	32.42	3.00	Rock, Seamed and Broke, REC 33"	3.00	92%	620.7	620.1
46	7458	-82	11444	67	9/29/1955	9/30/1955	647.38	0.00	6.00	6.00	Yellow Brown Silt and Sand, Trace clay		1		
			l		., .,	.,,		6.00	24.00	18.00	Gray Silt and Sand, Some Limestone Fragments				
								24.00	25.00	1.00	Gray Silt and Sand, Some Limestone Fragments				
								25.00	26.83	1.83	Gray Silt and Sand, Some Limestone Fragments				
								26.83	31.83	5.00	Rock, Seamed and Broken REC 56"	5.00	93%	620.6	620.0
47	7425	-156	11444	71	9/22/1955	9/26/1955	646.79	0.00	0.75	0.75	Brown Black Silt, Some Sand and Organic, Trace Clay- Topsoil				
								0.75	5.00	4.25	Yellow Brown Sand and Silt, Trace Fine Gravel				
								5.00	25.00	20.00	No sample taken				
								25.00	27.42	2.42	No sample taken				
								27.42	32.42	5.00	Rock, Seamed and Broken REC 60"	5.00	100%	619.4	618.9
48	7358	-113.5	11444	68	9/29/1955	9/30/1955	645.9	0.00	10.00	10.00	Yellow Brown Silt and Sand, Trace Clay				
								10.00	25.00	15.00	Gray Brown Silt, Some Sand, Gravel and Clay				
								25.00	26.50	1.50	Gray Brown Silt, Some Sand, Gravel and Clay		050/		618.9
40	7204	76	44444	40	44/44/4055	44 /45 /4055	CF2 CC	26.50	31.50	5.00	Rock, Seamed and Broken REC 57"	5.00	95%	619.4	618.9
49	7294	76	11444	18	11/14/1955	11/15/1955	652.66	0.00 6.00	6.00 15.00	6.00 9.00	Gray Brown Sand, Some Silt Brown Silt, Some Clay, Trace Sand and Fine Gravel				
								15.00	25.00	10.00	Gray Silt, Some Clay, Trace Sand and Fine Gravel				
								25.00	32.00	7.00	Gray Silt, Some Clay, Trace Sand and Fine Gravel				
								25.00	32.00	7.00	Flint-Limestone Rock, seamed and very hard, encountered at 32 feet - No Rock Core	-	-	620.7	620.1
50	7227	-50	8694	3	9/15/1999	9/15/1999	-	0.00	0.30	0.30	Asphalt Concrete				
					., .,	., .,		0.30	1.50	1.20	Gray Sandy Angular Gravel				
								1.50	3.00	1.50	Gray Brown Fine Gravelly Sand, Silty				
								3.00	7.00	4.00	Gray Brown Fine Gravelly Sand, Silty Clayey				
		<u> </u>	<u> </u>				<u></u>	7.00	8.00	1.00	Limestone REC 10.8"	-	-	-	-
51	6862	88	11444	53	10/10/1955	10/13/1955	645.02	0.00	15.00	15.00	Brown Silt, Some Fine Sand and Clay, Trace Gravel				
			l					15.00	25.50	10.50	Gray Silt, Some Clay, Trace Sand and Gravel	1			
								25.50	30.50	5.00	Rock, Seamed and Broken REC 24"	5.00	40%	619.5	619.0
52	6883	56	11444	60	10/13/1955	10/18/1955	643.96	0.00	24.50	24.50	No sample Taken				
								24.50	26.50	2.00	Rock, Seamed and Broken and Hard REC 24"	-	-	619.5	618.9
53	6887	9	11444	55	10/6/1955	10/10/1955	644.32	0.00	8.00	8.00	Brown Silt, some fine sand and clay				
			l					8.00	14.00	6.00	Red Gray Silt, Some Clay, Trace Sand and Gravel				
		l	l			1		14.00	22.00	8.00	Gray Brown Silt, Some Fine Sand, Trace Clay and Fine Gravel				
		l	l			1		22.00	26.50	4.50	Gray Silt, Some Sand, Gravel and Clay	4.00	0.00/	647.0	647.2
	5000		4444	- 62	40/5/4055	40/5/4055	642.56	26.50	30.50	4.00	Rock, Seamed and Broken, REC 46"	4.00	96%	617.8	617.3
54	6902	-68	11444	62	10/5/1955	10/5/1955	642.56	0.00	0.42	0.42	Brown Black Silt, Some Organic Topsoil				
		l	l			1		0.42 5.00	5.00 25.00	4.58 20.00	Yellow Brown Silt, Some Sand, Trace Clay No sample taken				
		1	l	1		l		25.00	25.00 26.50	1.50	No sample taken Rock, Seamed and Broken REC 16"	1		618.2	617.7
55	6027	156	11444	59	10/3/1955	10/4/1955	641.97		9.00	9.00			<u> </u>	016.2	017.7
55	6937	-156	11444	59	10/3/1955	10/4/1955	641.87	0.00 9.00	9.00 14.00	5.00	Red Brown Silt, Trace Sand, Clay and Fine Gravel Yellow Gray Silt, Some Clay, Trace Sand and Fine Gravel				
		l	l			1		14.00	24.33	10.33	Read Gray Silt, Some Clay, Trace Sand and Fine Gravel				
		İ	l					24.33	29.33	5.00	Rock, Seamed, Broken and Hard REC 56"	5.00	93%	617.5	617.0
						L		27.33	20.00	3.00		5.00	23/0	01/.5	027.0

П										1		ı	T .	1	
							Surface Elev.	Layer Start	Layer End	н				EST'D Rock El.	EST'D Rock El.
Key#	Sta.	Y axis	PSN	ВН	Date Start	Date Finish	(ft - NGVD29))	(ft)	(ft)	(ft)	Notes / Description	Core D(ft)	Rec.	(NGVD29)	(NAVD88)
56	6878.5	-134	11444	58	10/5/1955	10/5/1955	641.36	0.00	10.00	10.00	Red Brown Silt, Some Clya, Trace Sand and Fine Gravel				
								10.00	15.00	5.00	Red Gray Silt, Some Clay, Trace Sand and Fine Gravel				
								15.00	22.42	7.42	Gray Silt, Some Sand, Fine Gravel and Clay				
								22.42	27.42	5.00	Rock, Seamed and Broken REC 52"	5.00	87%	618.9	618.4
57			11444	56	10/5/1955	10/6/1955	641.68	0.00	8.00	8.00	Yellow Brown SILT , Some Sand, Trace Clay				
								8.00	13.00	5.00	Red Brown SILT , Some Sand And Clay, Trace Fine Gravel				
								13.00	17.00	4.00	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel				
								17.00	24.50	7.50	Gray SILT , Some Sand, Gravel And Clay	2.02	1000/	647.3	6467
50	6770	444	44444		40/2/4055	40/4/4055	642.44	24.50	28.33	3.83	ROCK , Seamed And Broken REC 46"	3.83	100%	617.2	616.7
58	6770	-144	11444	5/	10/3/1955	10/4/1955	642.11	0.00	6.00	6.00	Yellow Brown SILT , Some Sand				
								6.00	20.00 23.42	14.00	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel				
								20.00 23.42	25.25	3.42 1.83	Gray SILT , Some Sand And Fine Gravel ROCK , Seamed, Broken And Hard REC. 22"				
								25.25	26.25	1.00	ROCK , Seamed, Broken And Hard REC. 12"	-	-		
								26.25	28.08	1.83	ROCK , Seamed, Broken And Hard REC. 12	4.66	100%	618.7	618.2
59	6804	-34.5	11444	61	10/7/1955	10/10/1955	641.72	0.00	5.00	5.00	Red Brown SILT , Some Clay And Sand, Trace Fine Gravel	4.00	10070	010.7	010.2
35	0804	-34.3	11444	01	10///1933	10/10/1933	041.72	5.00	22.25	17.25	No sample taken				
								22.25	26.25	4.00	ROCK , Seamed And Broken REC. 48"	4.00	100%	619.5	619.0
60	6802	48	11444	52	10/10/1955	10/11/1955	642.77	0.00	9.00	9.00	Brown SILT , Some Sand, Trace Clay And Gravel	7.00	100/8	015.5	015.0
00	0802	40	11444	32	10/10/1933	10/11/1933	042.77	9.00	17.00	8.00	Gray Brown SILT , Some Clay, Trace Sand And Gravel				
								17.00	23.92	6.92	Red Gray SILT , Some Clay, Trace Sand And Gravel				
								23.92	27.58	3.66	ROCK , Seamed, Broken And Hard REC. 21"	3.66	48%	618.9	618.3
61	6778	109	11444	51	10/11/1955	10/11/1955	643.61	0.00	12.00	12.00	Brown SILT , Some Sand, Trace Clay And Fine Gravel		10,1	0_0.0	
01	0770	103	11111		10/11/1333	10/11/1555	0.13.01	12.00	20.00	8.00	Gray Brown SILT , Some Clay, Trace Sand And Gravel				
								20.00	24.25	4.25	Gray SILT , Some Clay, Trace Sand And Gravel				
								24.25	29.25	5.00	ROCK , Seamed, Broken and Hard REC. 46"	5.00	77%	619.4	618.8
62			11444	50	10/20/1955	10/21/1955	635.06	0.00	23.08	23.08	No sample taken				
					,,	,,		23.08	26.08	3.00	ROCK , Seamed And Broken REC. 36"	3.00	100%	620.5	620.0
63			11444	44	10/28/1955	10/31/1955	633.41	0.00	7.00	7.00	Red Brown SILT , Some Clay, Trace Sand And Gravel				
						.,.,		7.00	16.00	9.00	Gray Brown SILT AND SAND , Some Clay, Trace Gravel				
								16.00	23.67	7.67	Red Gray SILT , Some Clay, Trace Sand				
								23.67	25.67	2.00	ROCK , Seamed And Hard REC. 24"	2.00	100%	609.7	609.2
64			11444	45	10/27/1955	10/28/1955	630.32	0.00	12.00	12.00	Red Brown SILT , Some Clay, Trace Sand And Gravel				
								12.00	20.92	8.92	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel				
								20.92	23.09	2.17	ROCK , Seamed REC. 26"	2.17	100%	609.4	608.9
65			11444	49	10/26/1955	10/27/1955	630.07	0.00	20.67	20.67	No sample taken				
								20.67	22.67	2.00	ROCK , Seamed REC. 24"	2.00	100%	609.4	608.9
66			11444	43	10/27/1955	10/28/1955	629.35	0.00	10.00	10.00	Red Brown SILT , Some Clay, Trace Sand And Gravel				
								10.00	20.17	10.17	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel			1	
								20.17	22.67	2.50	ROCK , Seamed And Hard REC. 30"	2.50	100%	609.2	608.7
67			11444	40	10/28/1955	10/31/1955	629.16	0.00	6.00	6.00	Red Brown SILT , Some Clay And Sand, Trace Gravel				
								6.00	19.92	13.92	Red Gray SILT , Some Clay, Trace Sand And Gravel			1	
								19.92	21.42	1.50	ROCK , Seamed And Hard REC. 18"	1.50	100%	609.2	608.7
68			11444	47	10/31/1955	11/1/1955	631.18	0.00	8.00	8.00	Red Brown SILT , Some Clay, Trace Sand And Fine Gravel				
			l					8.00	22.33	14.33	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel	1	1	İ	Ì
								22.33	25.33	3.00	ROCK , Seamed And Hard REC. 35"	3.00	97%	608.9	608.3
69			11444	42	10/21/1955	10/25/1955	629.12	0.00	9.00	9.00	Red Brown SILT , Some Clay, Trace Sand And Gravel				
								9.00	20.25	11.25	Red Gray SILT , Some Clay, Trace Sand And Gravel	1		1	
								20.25	25.25	5.00	ROCK , Seamed And Very Hard REC. 58"	5.00	97%	608.9	608.4
70			11444	41	10/26/1955	10/26/1955	629.65	0.00	14.00	14.00	Brown SILT , Some Clay And Sand, Trace Fine Gravel			1	
								14.00	18.00	4.00	Red Gray SILT , Some Clay, Trace Sand And Gravel			1	
								18.00	21.67	3.67	Gray SAND , Some Silt, Trace Fine Gravel	1		1	
								21.67	24.17	2.50	ROCK , Seamed REC. 30"	2.50	100%	608.0	607.5
71			11444	48	10/17/1955	10/18/1955	629.96	0.00	21.58	21.58	No sample taken	1		1	
								21.58	24.91	3.33	ROCK , Seamed, Broken And Hard REC. 33"	3.33	83%	608.4	607.9
72			11444	46	10/21/1955	10/21/1955	630.86	0.00	9.00	9.00	Brown SILT , Some Sand, Trace Clay And Fine Gravel			1	
								9.00	17.00	8.00	Red Gray SILT , Some Clay, Trace Sand And Gravel			1	
								17.00	22.17	5.17	Gray SAND AND SILT , Some Fine Gravel	1		1	
								22.17	23.67	1.50	ROCK , Seamed REC. 18"	1.50	100%	608.7	608.2

^{*}Location for Key 62 to 72, and 40, 41 and 57 is not available

PSN REG COU PIN PRO ACT	ION 5 INTY E 5 JECT F UAL CO	ERIE 512.43 ROUTE DRDIN D. 6	3.101 33 PEI	DESTF (N) 1,	063,424. E START D. 2 1/4	GI S DGE 930 (I T <u>09</u> in	DEPART EOTECH UBSUF E) 1,078 -OCT-2 WT OF	MENT OF INICAL ENTRY OF INICAL		RTATION G BUREAU ION LOG M NADE FINISH 140	=	SURF. ELEV. DEPTH TO WA	ft 631.06 TER SE	EE NOTE 30 in 30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	SAN 0 6	OWS OMPLER	in MO CO				DE	SCRIPTIO	N OF SOIL	AND ROCK		
	0.0	J1	3 5			4%	(0.00)	Gray I	Brown Fine	Sandy SII	LT , With F	Roots		(M-NPL)
	5.0	J2	2 8	8 8	1!	9%	(5.00)	Brown	Fine Sand	dy SILT				(M-NPL)
R1 (9.00) Run #1 Drilled from 9'0" To 14'0" ROCK REC. 54" 90% 6 Bit No sk632512														
			Refusal The auto	at 2.74 omatic	over using 13 meters hammer dded at 2	was us	ed for th		OM OF HO					
			DAT	Е	TIME	HOL		EPTH ft	WATER	HEADI	ESIAN HEIGHT GROUND	FILLED WITH WATER AT END OF DAY		
			09-Oc	t-07	19:00	14.0	00	9.00	9.20					
The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process,														
the of th	information he materia be indicat	n repr	esents o e site. In	nly a sr iterpola	nall fracti tion betw	on of the een data	e total vo	olume	DATE AL RESIDE STRUCT		E	-2007	3.I.N	1022650
COI	NTRACT		co	NTRAC	CTOR _				SHEET			HOLE	FH-B	-2

PSN REGI COU PIN PRO ACTI	JECT K	RIE ENSIN DRDIN	NGTON E.	N) 1,063,3 DATE ST	WAY AF 866.970 ART 2 1/4 i	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX UNOFFIC RTERIAL HIGHWAY	DATUMNAD2 DATE FINISH -CASING	7 I 11-SEP- Ib I	HOLE FH-3 LINE Baseli STA 139+6 OFFSET 250 ft SURF. ELEV. 632 DEPTH TO WATER 1959 HAMMER FALL-CASIN HAMMER FALL-SAMPI	0 LEFT .27 NONE in				
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	MPLE NO.	BLOV	VS ON LER in	MOIST. CONT. (%)	W G HAMME	DESCRIPTION	-		III				
0.0 (0.00) Brown Topsoil (0.33) Brown SILT AND SAND , Some Fine Stone (M-														
and acce pres the of th	The subsurface information shown here was obtained for design and estimate purposes. It is made available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. BOTTOM OF HOLE AT 14.83 ft DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION B. Zemila REG GEOTECHNICAL ENGINEER UNOFFICIAL LOG DESCRIPTION B. ZEMILA ENGINEER UNOFFICIAL LOG DESCRIPTION B. ZEMILA REG GEOTECHNICAL ENGINEER DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME Ped. Bridge over Kensington Expressway SHEET 1 OF 1 HOLE FH-3													

CASIN	ON 5 NTY E	RIE ENSIN DRDIN	ATES (N) 1, DAT 1/4 in I.	ESSWAY AR ,063,366.970	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX UNOFFIC TERIAL HIGHWAY, (E) 430,273.100 11-SEP-1959 WT OF HAMMER	DATUMNAD2 DATE FINISH -CASING	7 DE 11-SEP-19 1b HA	-	DEFT 04 NONE in		
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS C SAMPLER	MOIST. CONT. (%)		DESCRIPTION	I OF SOIL A	ND ROCK			
	0.0 	J1				own SILT , Some Sar		, Trace Fine Stone	√ (M-PL)		
BOTTOM OF HOLE AT 9.00 ft Limestone rock encountered at 9 feet. Sample 1 obtained from auger.											
and acce pres the i of th not b	estimate ess to the ented in g nformatio e materia	purpos same l good fa n repre l at the	es. It is made information avaith. By the natesents only a site interpola	ailable to the Si ture of the expl mall fraction of ation between o rial encountere	at users may have tate. It is oration process, the total volume data samples may	DRILL RIG OPERAT SOIL & ROCK DESC REG GEOTECHNIC. ENGINEER DATE APPROVED RESIDENT ENGINE STRUCTURE NAME Ped. Bridge over K SHEET 1 OF 1	CRIPTION	OFFICIAL LOG	1022650		

PSN REGI COU PIN PRO ACTI	JECT K	ERIE ENSII ORDIN D. 2	NGTON EX	(PRESSWAY I) 1,063,319.9 DATE START I. D. 2 3/8 I. D. 1 3/8	DEPARTMENT OF GEOTECHNICAL E SUBSURFACE E UNOFFI ARTERIAL HIGHWAY	NGINEERING EXPLORATION CIAL LO Y, SECTION DATUM DATE I R-CASING	BUREAU SON LOG	HOLE DH-G4 LINE Baseline STA 139+13 OFFSET 69 ft LEFT SURF. ELEV. 630.79 DEPTH TO WATER SEE NOTE \R-1957 HAMMER FALL-CASING 18 in HAMMER FALL-SAMPLER 18 in						
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOW SAMPL	ER in MOIS	IT.	DES	CRIPTION OF SC	DIL AND ROCK						
(0.00) Black Brown SILT AND GRAVEL , Some Stone, Trace Clay And (M-LP Sand - Fill Material 15														
			Sample 12	obtained from		OM OF HOL	E AT 14.00 ft							
			DATE 29-Mar-5	TIME 7 15:00	DEPTH ft HOLE CASING 14.00 9.00	WATER	ARTESIAN HEAD HEIGHT ABOVE GROUN	FILLED WITH WATER AT D END OF DAY						
The subsurface information shown here was obtained for design DRILL RIG OPERATOR														
and acce pres the of th	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION R. Zemla REG GEOTECHNICAL ENGINEER DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N.													
COI	NTRACT		CONT	RACTOR		SHEET 1	OF 1	HOLE DH-G4						

	111 ON 5 NTY E 5 JECT R	RIE 512.43	3.101 3.33 F	PEDE	STR		 BRIDGE	DEPARTM GEOTECHN SUBSURF	TATE OF NEW YOU MENT OF TRANS MICAL ENGINEEF FACE EXPLOR	PORTATI RING BUF ATION I	REAU LOG		OF	LINE STA FSET . ELEV	DA-B- ft . 629.	.59		
ACTU	JAL COO	ORDIN	ATES			063,4 E S T		(E) 1,078, 10-OCT-20		TUM	NAD83	10-OC			VATER	_SE	E NO	TE
CASIN	IG 0. I	D . 3	1/2 iı		1. [_	_		HAMMER-CASIN		40	lb			L-CASIN	G	30	in
SAMP	LER O. I	D. 2	iı	n	1. [) . 1	3/8 i	n WT OF	HAMMER-SAMPL	.ER 1	40	lb	HAMN	IER FAL	L-SAMPL	LER	30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	6	VS O	in 18	MOIST. CONT. (%)		I	DESCRI	PTION	OF SOI	L AND	ROCK				
7 15 37 18	0.0 	J1					7%	(0.00)	Gray Fine San	dy SILT	, Claye	еу					(I	M-LPL)
18 31		J2	10	14	15		16%	(5.00)	Brown Fine Sa	andy SIL	.T						(ľ	M-NPL)
100		R1						(6.50)	Run #1 Drilled REC. 39" 98 NW DOUBLE	3.5% 6	3			2512				
			•		•	•			BOTTOM OF	HOLE A	T 9.80	ft						
			First s Refus Lost v	samp sal @ water	le off 1.98 at 2.	f auge 31 me 286 i	er. eters. meters.	t meters. s used for the	s SPT at all san	npling de	epths.							

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
10-Oct-07	18:00	9.80	7.00	10.00		

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR	L. Muhammad	
SOIL & ROCK DESCRIPTION	L. Muhammad	
REG GEOTECHNICAL		
ENGINEER Joseph Zieziula		
DATE APPROVED 06-DEC-20	<u>007</u>	
RESIDENT ENGINEER		
STRUCTURE NAME	B.I.N.	1022650
Pedestrian Bridge/Rte. 33		
SHEET 1 OF 1	HOLE DA	N-B-1

CONTRACT CONTRACTOR

PSN REGI COU	_		_ BORN	IUM <u>10</u>	 L_ 	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E	NEW YORK TRANSPORTATION GINEERING BUREAU KPLORATION LOG CIAL LOG		HOLE FH-1 LINE Basel STA 139+6	60				
						RTERIAL HIGHWAY	, SECTION II		OFFSET <u>65 ft</u> SURF. ELEV. <u>631</u>	.14				
ACTI	JAL CO	ORDIN	ATES _	(N) 1,063, DATE ST		(E) 430,423.100 11-SEP-1959	DATUMNAD2 DATE FINISH	<u>7 </u>	DEPTH TO WATER 1959	NONE				
CASII	NG 0. PLER 0.		1/4 in in	I. D. I. D.		in WT OF HAMMER in WT OF HAMMER			HAMMER FALL-CASIN HAMMER FALL-SAMP					
IG S/ft	I ft W CE	Щ		WS ON	MOIST.									
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 6	PLER in	CONT. (%)		DESCRIPTION	OF SOIL	AND ROCK					
	0.0		6 1	2 18 24	•	(0.00) _ Brown (0.33) _ Red Br	Topsoil own SILT , Some Cla	V And Sar	nd Trace Fine Stone					
		1				(0.00) Ned Di	own Sici , Some Cia	ly Allu Sai	iu, mace mie Stoni	5				
J1														
		-												
		1												
	5.0	1												
		1												
		1												
		-												
	10.0													
		1												
			1	1 1		BOTTO	OM OF HOLE AT 12.7	75 ft						
				e rock end obtained		d at 12.75 feet. ger.								
			·											
						ained for design	DRILL RIG OPERAT		D 7					
acce	ess to the	same	informatio	n available	e to the S	hat users may have State. It is Doration process,	SOIL & ROCK DESC REG GEOTECHNIC	AL						
the	informati	on repr	esents on	ly a small f	raction c	of the total volume data samples may	ENGINEER DATE APPROVED	Ul	NOFFICIAL LO	J				
				material e			RESIDENT ENGINE STRUCTURE NAME		B.I.N.	1022650				
CON	NTRACT		CON	TRACTOR	₹		Ped. Bridge over K		Expressway	H-1				

SM 282 PSN REGI	ION _5		_ B	ORN	UM _	5		GEOTE SUBS	ARTM ECHI SUR	MENT OF NICAL EI FACE E	NEW YOR TRANSPONGINEERIN	RTATIOI 3 BURE ION LC	AU ==		FH-X- CL 120+1			
PIN PRO	JECT N	512.36 Y RO			LM/O	AK T	O ROI			LIMI	NARYI	_OG	_	OFFSETSURF. ELEV.	48 ft	RIGHT		_
	LED COO					63,1°	11.390		30,3	14.100	DATU	M <u>N</u> /	<u>AD27</u> 1 20-SE	DEPTH TO WA P-1999	ATER	SEE	NOTE	_
CASII	NG O. I		ower i	n n	I. D. I. D.	. А	uger i	in W	ГОБ	HAMME	R-CASING R-SAMPLEF		lb	HAMMER FALL			18	in in
					NS ON		1/2 1	in w	I OF	HAWWE	R-SAMPLER	300	ID ID	HAWWER FALL	-SAIVIP	LEN	10	ın
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6	LER i	n I	MOIST. CONT. (%)				DE	SCRIPT	TION OF SO	IL AND ROCK				
	0.0	J1	30	19			4%	(0.	00)	Brown	Gravelly S	AND ,S	Silty				(M-NP	,L)
		J2	17	20	11		3%											
		J3	20	30	18		5%											
	5.0	J4	50	20	19		2%											
		J5	16	50	10		3%											
		J6	16	32	100		5%											
	10.0	J7	17				4%											
				35	37													
		R1						—— [1 1 .	80)	REC.	12" 1009	6 3)" LIMESTONE				
	REC. 12" 100% 3 AW DBL. TUBE SWIVEL Bit No NYS344 BOTTOM OF HOLE AT 12.80 ft Progressed hole DRY to 3.597 meters. Station and offset from Record Plans.																	
							_		DE	PTH ft			RTESIAN	FILLED WIT				
				ATE		TIM		HOLE	CA	ASING	WATER		D HEIGHT E GROUNI	WATER A				
			20-	Sep-9	99	11:0	0	12.80	1	11.80	11.50			NO				
and acce pres	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION J.A.DENNEE REG GEOTECHNICAL ENGINEER PRELIMINARY LOG																	
of th	informatio ne materia	l at the	e site.	. Inte	rpolati	on be	etween	data sar			DATE A	PROVI	ED					_
not	be indicat	ive of t	the ac	ctual i	materia	al end	counter	red.			STRUCT	_			B.I.N.			_
CON	NTRACT		(CON	TRAC	ГOR					SHEET	1 OF 1		HOL	E F	H-X-5		_

PSN REG COU PIN	NTY _	S ERIE			UM _			DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX UNOFFICE	GINEERING (PLORATIC CIAL LO	BUREAU ON LOG G		LINE STA OFFSET		
	JECT <u> </u>							RTERIAL HIGHWAY) (E) 430,263.850	SECTION DATUM	II NAD2	 ?7	SURF. ELEV DEPTH TO V		E NOTE
CASII	NG O	D . 2	7/8 i i		DATI		_	05-OCT-1965 in WT OF HAMMER	DATE F	INISH _	06-OC	T-1965 HAMMER FAL		18 in
	PLER O.		iı		1. 0			in WT OF HAMMER		300	lb	HAMMER FAL		18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	/	n 18	MOIST. CONT. (%)		DES	CRIPTION	N OF SO	IL AND ROCK		
	0.0			12				(0.00) Topsoi (0.30) Brown		Somo Cla	- And E	ractured Stone		(M-PL)
		J1	6	_				(0.00) Blowii	neu SILI , (JUITIE CIA	ty And i	ractured Storie	;	
13		-		7	12									
32		-												
23		_												
33	5.0													
32		J2	4	9				(5.00) Red Br	own SILT,S	Some Cla	ay			(M-PL)
44		Ī			14									
	52													
44	44													
40	10.0	J3	3					-						
25		1		4	7									
25														
38														
32														
200	15.0								5			500K -0		
		R1						(14.75) Run #1 Broken			0 159	ROCK , Seam	ea Ana	~=====
		- R2							Drilled from	15'9" T	o 17'9"	ROCK , Seam	ed And	_ J
		1						Broken REC.	22" 91.7%	3				
		R3						(17.75) Run #3 Broken		17'9" T	o 19'9"	ROCK , Seam	ed And	
		-							24" 100%	1				
	20.0	R4					L	(19.75) Run #4		19'9" T	o 21'9"	ROCK , Seam	ed And	
	<u> </u>	-						Broken REC.	24" 100%	6				
		<u> </u>						ВОТТО	M OF HOL	E AT 21.	75 ft			
			Dug k	y ha	nd fro	om 0	to 1 foo							
			Ü											
TL.	auba:′	oo inf	rm - 1'	on cl	OV.:= 1		was sti	ained for deci	DBILL BIO	OPERA	TOP	I C		
and	estimate	purpos	ses. I	t is m	ade a	vaila	ble so i	ained for design that users may have		CK DES	CRIPTIO	J. Swartz R. Smith		
pres	sented in	good fa	aith. I	By the	e natu	re of	the exp	State. It is ploration process,	REG GEO			JNOFFICIA	L LOG	
of th	ne materi	al at the	e site.	Inte	rpolat	ion b	etween	of the total volume data samples may	DATE APP	ROVED				
not	be indica	tive of t	the ac	tual r	nateri	al en	counte	red.	RESIDENT STRUCTU				B.I.N	
cor	NTRACT		(CONT	ΓRAC	TOR			SHEET 1	OF 2		НО	LE DH-W	/11

PSN REGIO	26 ON 5		BOR	NUM1	<u> 1 </u>	GEOTE SUBS	STATE OF ARTMENT OF ECHNICAL EN SURFACE EX JNOFFICE	IGINEERING I XPLORATIO	BUREAU ON LOG		LINE Baseline STA 136+40	
PIN PROJ ACTU	IAL CO	ORDIN		EXPRES (N) 1,060 DATE S	3,046.970 START _	RTERIAI (E) 43 05-OC	L HIGHWAY 30,263.850 T-1965 FOF HAMMER	, SECTION DATUM DATE F	II NAD2		OFFSET 94 ft LEFT SURF. ELEV. 634.1 DEPTH TO WATER SEE NOTE T-1965 HAMMER FALL-CASING 18	<u> </u>
SAMPI	-		in	I. D.			T OF HAMMER		300	lb	HAMMER FALL-SAMPLER 18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		OWS ON MPLER in 12 18	MOIST. CONT. (%)			DESC	CRIPTIO	N OF SO	IL AND ROCK	

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
06-Oct-65	15:00	21.75	14.75	14.80		

SOIL & ROCK DESCRIPTION R. Smith

REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG

DATE APPROVED
RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.

J. Swartz

CONTRACT _____ CONTRACTOR

SHEET 2 OF 2 HOLE DH-W11

DRILL RIG OPERATOR

PSN REG COU PIN PRO ACT	JECT K	RIE ENSIN ORDIN D. 2	NGTO	DN E. 6 _(I	N) 1,(DAT I	ESSV 062,8 E ST	NAY A 91.960 ART _	GEOTE SUBS RTERIAL () (E) 43 14-OC in W	STATE OF ARTMENT OF ECHNICAL EI SURFACE E UNOFFI L HIGHWAY 30,282.730 T-1965 T OF HAMME T OF HAMME	NGINEERIN EXPLORAT CIAL L /, SECTIO DATU DATE R-CASING	RTATION G BUREAU ION LOG OG N II M NAD2 E FINISH 300	27 15-OCT- lb	STA 13 OFFSET 75 SURF. ELEV. (DEPTH TO WATI	seline 4+85 ft LEFT 634.5 ER SEE	E NOTE 18 in 18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S		VS OI		MOIST. CONT.			DE	SCRIPTION	N OF SOIL	AND ROCK		
2 🖺		ď	6	/	18	/ /									
	0.0							,	.00) Topso				ractured Stone		
10		J1	8	12				1 (0.	.70) Rea b	IOWII SILI	, Some Cia	ау, тгасе г	ractured Stone		(M-PL)
					14										
20															
26															
29	5.0	10													
23		J2	6	9											
25					13										
	_														
43															
40															
31	10.0	J3	3				22%	-(10.	.00) Red B	rown SII T	Some Cla				[M-PL)
33				4	4			(,	-,			(/
35	<u> </u>				4										
52															
90		R1						-713	58\ Run#	1 Drilled fro			OCK , Seamed A		
- 00	15.0							,	Broke [58] REC.	า		0 147 110	oon, ocamour	u i u	
	13.0	R2						(14.	.58) (<u>RLO.</u> Run #:	2 Drilled from	om 14'7" T	o 16'7" R	OCK , Seamed A]
									Brokei REC.	า _23"95.8	% 9				
		R3						(16.	.58) Run #: Broke		om 16'7" T	o 18'6" R	OCK , Seamed A	ind	
										23" 99.8	% 4				
	<u> </u>	<u> </u>	<u> </u>		<u> </u>	L	<u> </u>	L	BOTT	OM OF HO	DLE AT 18.	50 ft			
							to 1 foo ST fror		18.5 feet.						
		Г							DEPTH ft		ARTE	SIAN	FILLED WITH		
			D	ATE		TIM	ie	HOLE	CASING	WATER	HEAD H	IEIGHT	WATER AT END OF DAY		
		}	15-	Oct-6	35	15:0		18.50	13.58	16.60	VPOAE	AI TOUND	FIAD OI- DAT		
		L											<u> </u>		
and acc pres the of th	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR J. SwartZ SOIL & ROCK DESCRIPTION REG GEOTECHNICAL ENGINEER DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N.														
CO	NTRACT		(CONT	ΓRAC	TOR				SHEET	1 OF 1			DH-E1	3

PIN	NTY E	2 RIE	_ BC	ORNI	UM _	9	- -	GEOTE SUBS	ARTM ECHN SURF	MENT OF NICAL EN FACE E	NEW YOF TRANSPONGINEERIN XPLORAT	ORTA NG B TIOI	UREAU N LOG			HOLE LINE STA OFFSET	134	I-W10 seline 1+35 1 ft LEF	T	<u> </u>
PRO	JAL CO	ORDIN		1)_ 6	N) 1,0 DATE	62,8	42.000 \RT _	RTERIAI (E) 43 06-OC	L HIC 30,23 T-19	GHWAY 86.690 65	<u>', SECTIC</u> DATL	II NC . M L		27 13-OC	SU DE T-19	IRF. ELE	V. 6 WATE	35.02 FR SE		in
SAMP	PLER O.	D. 2	ir	1	I. D.	. 1	3/8	in W	T OF I	HAMMEI	R-SAMPLEI	R	300	lb	НА	MMER F	ALL-SA	MPLER	18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	/		MOIST. CONT. (%)				DE	ESC	RIPTION	N OF SOI	IL AI	ND ROC	K			
	0.0			12	10			(0.	.00)	Topso	il									
		J1	5					(0.	.70)	Brown	SILT, So	me	Sand A	nd Fracti	ured	Stone,	Trace	Clay	M-LF	ŗ <u></u>)
8 12				6	5															
23		- -																		
30	5.0																			
27		J2	6	10	16			(5.	.00)	Red B	rown SILT	¯ , S	ome Cla	ay, Trace	Fin	e Fractu	red St	one	(M-P	L)
45		-																		
55		-																		
55																				
55	10.0	J3	4					-710	<u> </u>	Rod R	rown SILT	<u> </u>	ome Cla						(M-P	_,_
52 72			·	7	8			(10.	.00)	rica B	OWIT OILT	, 0	ome or	, y					(IVI I	_,
130		-																		
	15.0	R1						,	,	Broker	1 Drilled fr 1 11" 91.7			To 14'11'	-	ŌCKŢS	eamed	And	·	
·		R2						(14.	.92) (Run #2 Broker	2 Drilled fr	rom	14'11"	To 16'11'	" R	OCK, S	eamed	And		
		R3							.92)		24 100 3 Drilled fr			To 18'11'	- R	ŌCK.S	eamed	And		
		-							- /	Broker						, -				
			Dug b	oy ha Drill	nd fro	m 0 r LO	to 1 foo	ot. n 15.92 i	to 18		OM OF HO	OLE	AT 18.9	92 ft						
			D.	ATE		TIM		HOLE		PTH ft	WATER		ARTE HEAD H BOVE G			FILLED WATEI END OF	R AT			
			13-0	Oct-6	65	15:0		18.92		2.92	14.62						_, , , ,			
and acce pres the i of th	subsurfa estimate ess to the sented in information be materia be indicat	purpos same good fa on repre al at the	ses. It inforn aith. E esents e site.	t is m nation By the s only Inte	nade a n avail e natui / a sm rpolati	vaila able re of all fra on b	ble so to to the s the exp action o etween	that users State. It cloration of the tota data sar	rs may is proce al voli	y have ess, ume	DRILL F SOIL & REG GE ENGIN DATE A RESIDE STRUC	ROC EOT NEE! NPP!	CK DES ECHNIC R ROVED ENGINE	CRIPTION CAL L	N _	J. Swart R. Smith	AL L	OG		
	NTRACT		,	רואחב	TRAC	ΓΩP					SHEET	1 ()F 1			Н	OI F	DH-W	/10	

PSN REG COU PIN PRO	ION E		NGTC	ON EX	N) 1,06	 SWAY <i>F</i>	GEOT SUBS ARTERIA O (E) 4	STATE O ARTMENT O ECHNICAL E SURFACE E UNOFFI L HIGHWA' 30,222.490 CT-1965	NGINEERIN EXPLORAT CIAL L Y, SECTION DATU	RTATION G BUREAU ION LOG OG N II		STA OFFSET SURF. ELEV. DEPTH TO WA	Baseline 131+82 135 ft LEF 635.44	
CASII	NG 0. PLER 0.		7/8 ir ir		I. D. I. D.	2 3/8 1 3/8		T OF HAMME T OF HAMME		300 300		HAMMER FALL- HAMMER FALL-		18 in 18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	VS ON LER in	MOIST CONT (%)			DE	SCRIPTIO	N OF SOIL	AND ROCK		
	0.0			12				.00) Topso .50) Red E		Trace To	Some Cla			(M-LPL)
9		J1	10	12	14			.oo, ried L	NOWIT SILT	, made ro	Some Ora	ıy		(101 E1 E)
16 19														
21	5.0	<u> </u>												
49 57		J2	8	12	14									
74														
67		-												
56	10.0	J3	4				+- ₍₁₀	.00) Red E	rown SII T	Some Cla				(M-PL)
35 50 65				5	6					, 555 5	~,			(··· · <u>-</u>)
120		R1				<u> </u>		-33\ Run#	1 Drilled from	1 <i>ā</i> ' <i>ā</i> " ⊤	15¼" R	OCK , Seamed	d	
	15.0	R2						Broke .33) \ REC.	n _11"_91.7 2 Drilled fro	% 3		OCK , Seamed		
						<u> </u>	L	REC.	24" 1009					
		R3					(17	Broke			o 19'4" R	OCK , Seamed	d And	
			I					ВОТТ	OM OF HO	LE AT 19.	33 ft			
						n 0 to 1 fo from 16.3	oot. 33 to 19.3	33 feet.						
			L	ATE		IME -		DEPTH ft			SIAN HEIGHT	FILLED WIT		
							HOLE	CASING	WATER	ABOVE (END OF DA		
			20-0	Oct-6	5 1	5:00	19.33	14.00	16.34					
and acce pres the of th	estimate ess to the sented in informati	e purpose e same good fa on repr	ses. It inforn aith. E esents e site.	t is m natior By the s only Inte	ade ava n availa e nature v a sma rpolatio	ailable so ble to the of the ea Il fraction n betwee	State. It ploration of the tot n data sa	rs may have	SOIL & F REG GE ENGIN DATE AI RESIDEI	OTECHNIC	CRIPTION CAL U	J. Swartz I R. Smith NOFFICIAL	LOG	
COI	NTRACT		(CONT	RACTO	OR			SHEET	1 OF 1		HOL	E DH-W	/ 9

SM 282	E 12/02							STATE OF NEW YORK	<u> </u>	
PSN	869	94	В	ORN	UM _	8		DEPARTMENT OF TRANSPORTATION	HOLE FH-X-8	
REGI	ION 5		_					GEOTECHNICAL ENGINEERING BUREAU	LINE CL	
cou	NTY F	RIE						SUBSURFACE EXPLORATION LOG	STA 113+40.00	
PIN		512.3	3 122)			_	PRELIMINARY LOG ===	OFFSET 48 ft LEFT	
	JECT N		_		1 1 1 / (ΛV.	 TO BO		SURF. ELEV.	
										NOTE
SCAI	LED COO	HUIN	AIES	<u> </u>			135.540	(E) 430,215.680 DATUM NAD27	DEPTH TO WATER SEE	NOTE
		_			DATE	_	_		P-1999	_
CASII	-		ower i		I. D		Auger	WT OF HAMMER-CASING Ib	HAMMER FALL-CASING	in
SAME	PLER O. I	D. 2	i	n	I. D	. 1	1 1/2	WT OF HAMMER-SAMPLER 308 lb	HAMMER FALL-SAMPLER	18 in
<u>#</u>	DEPTH ft BELOW SURFACE	щ			VS ON		MOIOT			
CASING BLOWS/ft	Ŧo₹	SAMPLE NO.	5	SAMP	LER i	n	MOIST.	DESCRIPTION OF SO	II AND ROCK	
LO X	교교등	ξz	0	6	12	18 /	(%)	DESCRIB HON OF CO	IL AND HOOK	
ОМ	a IS	S S	//	//	/] ` ′			
	0.0	J1	30	12	18	<u> 24</u>	12%	(0.00) Gray Brown Gravelly SAND ,Silty W	ith Slag	(M-NPL)
	0.0	01	00	19			12/0	(0.00) Gray Brown Graverry SAIND ,Silty W	illi Siag	(IVI-IVI L)
				13	21					
		J2	24		-		5%			
		JZ		57] 3/0			
				31	100					
		J3			1100		7%	(2.80) Brown Gravelly SAND ,Silty		(M-NPL)
		14	25		\vdash		L			,
		J4	25	27			11%	(3.50) Gray Brown Gravelly SAND ,Silty W	ith Siag	(W-NPL)
	- 0			21						
	5.0		75		30		L			
		J5	75		\sqcup		12%			
		R1						(5.50) Run #1 Drilled from 5'6" To 6'6" LIN	MESTONE	
								REC. 10.8" 90% 3 AW DBL. TUBE SWIVEL Bit No NY	C244	
									3344	J
			Prog	racca	d hole	ם חב	2V to 1	BOTTOM OF HOLE AT 6.50 ft 6 meters		
								augers.		
								d Plans.		
			Ciaire	an	<u>.</u>	J. 11				

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
22-Sep-99	10:50	6.50	5.50	5.10		NO
22-Sep-99	11:00	6.50	0.00	NONE		NO

DRILL RIG OPERATOR	R.N.SCHMITT
SOIL & ROCK DESCRIPTION	J.A.DENNEE
REG GEOTECHNICAL	
ENGINEER PRE	ELIMINARY LOG
DATE APPROVED	
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N
SHEET 1 OF 1	HOLE FH-X-8

CONTRACT CONTRACTOR

ACT	UAL C	OORDI	NATE	S _(N) 1,06 DATE	32,341.950 START _	UNOFFI RTERIAL HIGHWAY (E) 430,297.300 20-OCT-1965	', SECTION DATUM DATE I	II <u>NAD2</u> FINISH _	26-00	SURF. E DEPTH CT-1965	ELEV. TO WA	TER SE	EE NOTE
CASI SAMI	NG (2 7/8 i	n n	I. D. I. D.		in WT OF HAMME in WT OF HAMME		300 300	lb lb	HAMMEF HAMMEF		SAMPLER	18 18
CASING BLOWS/ft	DEPTH # BELOW	SAMPLE NO.	9		VS ON PLER in	CON I.		DES	CRIPTION	OF SC	OIL AND R	оск		
		S 0	6		18	24	(2.22)							
	0.0							rown SILT,	Trace To	Some C	Clay, Trace	Fine F	ractured	(M-LF
		J1					Stone				-			
	_													
	-													
<u>57</u>	<u> </u>													
50	5.0	J2	7				(5.00) Red B	rown SILT ,	Some Cla	<u></u> – – –				(M-P
45	<u> </u>			10	13									
53	<u> </u>	_												
53	L .													
42	L.													
43	10.0					Ш								
33		J3	3	4										
40					4									
38	<u> </u>													
38	<u> </u>													
40	15.0	J4	3			+	(15.00) Red B	rown SILT ,	Some Cla	y, Trac	e Sand An	d Fract	ured Stone	e (M-P
45	<u> </u>			7	6									
56	L .	R1				 	(16.67) Run #		n 16'8" To	o 17'8"	ROCK, S	Seamed	Ānd	
	L .	R2				 	Brokei (17.67) \ REC.	12" 100%	4					
	L .						Brokei			0 19'8"	ROCK, S	Seamed	And	
	20.0	R3			$\vdash \vdash$		REC. (19.67) Run #3	24" 100% 3 Drilled fron		0 21'8"	ROCK . S	Seamed	Ānd	
	L .						` ´ Brokeı			-	, -			
				<u> </u>			BOTT	OM OF HOL	E AT 21.6	67 ft				
			Dug .	samp	le 1 by	m 0 to 3 fee hand. LOST fron	et. n 19.67 to 21.67 fee							
and acco pres the of th	l estima ess to t sented i informa he mate	te purpo he same n good tion rep rial at tl	oses. e infori faith. resent ne site	It is m mation By the ts only . Inte	nade av n availa e natur y a sma rpolatio	vailable so to able to the S e of the exp all fraction o	oloration process, of the total volume data samples may	DRILL RIC SOIL & RC REG GEO ENGINEI DATE API RESIDENT	OCK DESC TECHNIC ER PROVED FENGINE	CRIPTIC AL	J. Sw DN R. Sr UNOFFI	nith CIAL		
								STRUCTU	KE NAME	:			B.I.N	
	NTRAC	т		CON.	TRACT	OB		SHEET 1	OF 2			HOI F	DH-E	:11

SM 282 E 1 PSN _ REGION COUNT	262 N _5	<u>2</u> RIE	BOR	NUM1	0	GEOT SUB	STATE OF PARTMENT OF ECHNICAL ENG SURFACE EX UNOFFICE	GINEERING I KPLORATIC	BUREAU ON LOG		LINE Baseline STA 129+35	
PIN PROJEC ACTUAL	O. E). 27	ATES _	(N) 1,062 DATE S I. D.	2,341.950 START _ 2 3/8	RTERIA (E) 4 20-OC in W	AL HIGHWAY, 130,297.300 CT-1965 IT OF HAMMER	SECTION DATUM DATE F -CASING	II NAD2 INISH _ 300	26-OC lb	T-1965 HAMMER FALL-CASING	EE NOTE
CASING BLOWS/ft MADE	BELOW SURFACE O	MPLE NO.		I. D. OWS ON MPLER in	MOIST.	in W	/T OF HAMMER		300 CRIPTIO	Ib N OF SO	HAMMER FALL-SAMPLER	18 in

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
26-Oct-65	15:00	21.67	16.67	12.75		

DRILL RIG OPERATOR _____ J. Swartz

SOIL & ROCK DESCRIPTION R. Smith

REG GEOTECHNICAL

ENGINEER UNOFFICIAL LOG

DATE APPROVED ____

RESIDENT ENGINEER

STRUCTURE NAME B.I.N. _____

CONTRACT _____ CONTRACTOR

SHEET 2 OF 2 HOLE DH-E11

PSN 282 PSN REGI COU	ION	262 5 ERIE	E	BORN	UM <u>2</u> 3	<u>B</u>	DEPARTI GEOTECHI SUBSUR	MENT OF NICAL EN FACE E	NEW YORK TRANSPOR' IGINEERING XPLORATIC	BUREAU ON LOG		HOLE LINE STA OFFSET	DH-G3 Baseline 127+20 120 ft LEF	Γ
CASI	UAL C	OORDI	NATE 2 7/8	S _(XPRESS N) 1,062 DATE S I. D. I. D.	126.990 TART _ 2 3/8	26-MAR-19 in WT OF	37.130 957 HAMMEF	, SECTION DATUM DATE F R-CASING R-SAMPLER	NAD2	27 27-MAF Ib Ib	R-1957 HAMMER FA	WATER SE	E NOTE 18 ir 18 ir
CASING BLOWS/ft	DEPTH # BELOW	SAMPLE		SAMP	VS ON PLER in	MOIST. CONT. (%)			DES	CRIPTIO	N OF SOI	L AND ROCK	(
10	0.0			0, 12		-	(0.00)	Red SI	LT , Some (Clay				(M-PL)
12 16														
27														
31 24	5.0	J9	5	10		<u> </u>	_							
34														
42 33														
34	10.0	J10) 2			<u> </u>	-							
29				2										
26 29														
32 25	15.0													
16		J11	1	1			(15.00)	Red SI	LT , Some (Clay				(W-PL)
15 23														
83		R1				<u> </u>	719 00	- Run #1	Drilled from	1 0'0" T	- 21'0" F	ROCK Sean	ned And Hard	
	20.0						(10.00)	REC.	27" 81.8%	,	0210 1	ioor, ooun	iod / iid i iaid	
	 	R2				<u> </u>	(21.75)		P Drilled fron	n 21'9" T	ō 22'9" F	ROCK , Sean	ned And Hard	
						1			DM OF HOL	E AT 22.	75 ft			
and acce pres the of th	estima ess to ti sented i informa ne mate	te purp he sam n good tion rep rial at t	oses. e infoi faith. oreser he site	It is m rmation By the ats only e. Inte	nade avai n availab e nature (y a small	lable so le to the softhe exportant the exportant the exportant to the exp	tained for des that users ma State. It is ploration proc of the total vo a data sample red.	y have ess, lume	DRILL RIG SOIL & RC REG GEO ENGINEE DATE APP RESIDENT STRUCTU	OCK DES TECHNIC ER PROVED FENGINE	CRIPTION CAL L EER	N R. Zemla		
COI	NTRAC	т		CON	TRACTO	R			SHEET 1	OF 2		НС	LE DH-G	3

SM 282	E 12/02						STATE OF	NEW YORK			<u> </u>			
PSN	26	32	BOR	NUM2	23		PARTMENT OF				HOLE _	DH-G3		
REGI	ON 5	5					TECHNICAL EN				LINE	Baseline	Э	
COU	NTY I	ERIE				proposition and a second	SURFACE EX			=	STA	127+20		
PIN							UNOFFIC	CIAL LO	G	··		120 ft I	LEFT	
PRO	JECT	KENSI	NGTON	EXPRES	SWAY AF	RTERIA	AL HIGHWAY,	SECTION	II		SURF. ELEV.	634.9	2	
ACTU	JAL CO	ORDIN	ATES _	(N) 1,062	2,126.990	(E) 4	30,237.130	_ DATUM	NAD2	27	DEPTH TO W	ATER _	SEE NOTI	<u> </u>
				DATES	START _	26-MA	AR-1957	DATE F	INISH _	27-MA	R-1957			
CASIN	NG O.	D. 2	7/8 in	I. D.	2 3/8	in W	T OF HAMMER	-CASING	300	lb	HAMMER FALL	-CASING	18	in
SAMP	LER O.	D. 2	in	I. D.	1 3/8	in W	T OF HAMMER	-SAMPLER	300	lb	HAMMER FALL	-SAMPLE	R 18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	1	OWS ON MPLER in	MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK								

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT		
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY		
27-Mar-57	15:00	22.75	19.00	13.33				

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG

DATE APPROVED RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.

CONTRACT _____ CONTRACTOR

SHEET 2 OF 2 HOLE DH-G3

DRILL RIG OPERATOR

PSN REGI	ION 5		ВС	ORNI	UM _	5	STATE DEPARTMENT GEOTECHNICAL SUBSURFACE	ENGINEERING	BUREAU		LINE	DH-S2-4 Baseline	
PIN		RIE	ICTO	NI E	VDDE			FICIAL LO	G	=	STA OFFSET SURF. ELEV	126+85 60 ft LEF	T
				1)_ 6	N) 1,06	32,091.950	(E) 430,297.100	DATUM	NAD2		DEPTH TO V		EE NOTE
CASI	NG O. PLER O.		7/8 ir ir	1			03-DEC-1965 in WT OF HAMN in WT OF HAMN	DATE F IER-CASING IER-SAMPLER	300 300	07-DEC	HAMMER FAL		18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	VS ON LER ir	MOIST.		DES	CRIPTION	I OF SOII	L AND ROCK		
	0.0		6	12	18	24	(0.00)_ Tops	soil					/=====
		J1						vn SILT , Trace	To Some	e Clay			— / (M-LPL)
5													
8													
8													
25	5.0					<u> </u>							
17		J2	3	9			(5.00) Red	Brown SILT ,	Some Cla	У			(M-PL)
20					13								
29													
29													
26	10.0												
25		J3	2	2		28%							
					4								
16													
16													
14													
16	15.0	J4	1			22%							
16				1	1								
15													
16													
40													
45	20.0	J5	10										
	<u> </u>	R1					Brok			25'0" F	кОСК , Seam	ed And	
	<u> </u>						KEC	5. 57" 99.8%	33				
	<u> </u>												
	L _												
	25.0												
and	estimate	purpos	es. I	t is m	ade av	vailable so t	 ained for design that users may have State		OCK DESC	CRIPTION	L. Smith R. Smith		
access to the same information available to the State. It is presented in good faith. By the nature of the exploration protee information represents only a small fraction of the total v of the material at the site. Interpolation between data sample not be indicative of the actual material encountered.							oloration process, of the total volume data samples may	REG GEO ENGINEI DATE APF RESIDENT	R PROVED	U	INOFFICIA	L LOG	
not l	be indicat	tive of t	he ac	tual r	nateria	al encounte	red.	STRUCTU	RE NAME		_	B.I.N	1022640
CON	CONTRACT CONTRACTOR								/ St over I OF 2	Kensingt	on Expresswa HO	ay LE DH-S	52-4

PSN 282 E 12/02 PSN REGION COUNTY PIN	262 5 ERIE	BORNI	UM <u>5</u>	<u>5</u>	GEOTE(SUBSI	STATE OF RETMENT OF CHNICAL ENGUISTACE EX	GINEERING E (PLORATIO	BUREAU N LOG		LINE STA	DH-S2- Baseline 126+85 60 ft L	е	
PROJECT ACTUAL C		ATES _(I		2,091.950	RTERIAL	HIGHWAY, 0,297.100		I NAD2	27 07-DEC	SURF. ELEV. DEPTH TO W	634.7		
	O. D. 27 O. D. 2	7/8 in in	I. D. I. D.	2 3/8	in WT	OF HAMMER	-CASING	300 300	lb lb	HAMMER FALL HAMMER FALL			in in
CASING BLOWS/ft DEPTH ft BELOW	SURFA SAMPI NO.	_	VS ON LER in	MOIST CONT. (%)		DOTTO	DESC OM OF HOLE			L AND ROCK			

Dug by hand from 0 to 1 foot.

07-Dec-65

Sample 1 obtained from auger.

15:00

25.00

ARTESIAN FILLED WITH DEPTH ft DATE TIME HEAD HEIGHT WATER AT HOLE CASING WATER

14.00

20.00

ABOVE GROUND

END OF DAY

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR L. Smith SOIL & ROCK DESCRIPTION R. Smith **REG GEOTECHNICAL** UNOFFICIAL LOG **ENGINEER** DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME 1022640 B.I.N. East Ferry St over Kensington Expressway

SHEET 2 OF 2

HOLE DH-S2-4

CONTRACT CONTRACTOR

PSN REGI COUI	ION _	262 5 ERIE	_ B	ORN	UM _	2	 	STATE OF NEV DEPARTMENT OF TRA GEOTECHNICAL ENGIN SUBSURFACE EXPL UNOFFICIA	ANSPORT EERING I ORATIC	BUREAU ON LOG		<u> </u>	INE _ Sta _	UD-S2-1 Baseline 125+85		
ACTU CASIN	UAL C	OORDIN 0. D. 4		n <u>(</u>		061,9 E ST. D. 4	92.000 ART _	RTERIAL HIGHWAY, SE	CTION DATUM DATE F	II NAD2	7	DEPTH 0-1965 HAMMEF	TO W	130 ft LE 634.39 ATER S -CASING	SEE NO 18	OTE i i
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOV SAMP		in 18	MOIST. CONT. (%)		DESC	CRIPTION	OF SOII	L AND R	оск			
21	0.0	J1	3	4	11			(0.00) Topsoil Red Brown	SILT , s	Some Cla	y					(M-PL)
77 91 98	 5.0															
84 59		L2	21	30				(5.00) Description on Form SI	M 401, L	JNDISTU	RBED S			ARY LOC	à	(M-PL)
152 149																
140 83 76		T3						(10.00) Description on Form SI	M 401, L	JNDISTU	RBED S			 1ARY LOC	i i	(M.DI)
71 60								(11.67) Red Brown	ISILI,	some Cia	y					(M-PL)
53	15.0 	T4						(15.00) Description on Form SI	M 401, U	JNDISTU	RBED S			 MARY LOG	à	
18 34 41	20.0	T5						(16.67) Red Brown (17.00) Description on Form SI (18.00) Red Brown	n Of Und M 401, L	isturbed S JNDISTU	Soil Sam RBED S	ples Sho AMPLE S	wn SUMM	IARY LOG		(M-PL)
60 65		R1						(21.80) Run #1 Dri Broken	lled from	n 21'10" T	o 23'10"	ROCK	, Sear	med And		
	25.0	R2						REC. 24" (23.80) Run #2 Dri Broken			ō 25'10"	ROCK	 , Sear	 med And		
and acce pres the i of th	estimat ess to th sented in informat ne mater	e purpos ne same n good fa tion repre	ses. I inforr aith. I esent e site.	It is m mation By the s only Inte	nade a n ava e natu / a sn rpola	availa ilable ire of nall fr tion b	able so to to the s the expraction of the etween	hat users may have State. It is loration process, f the total volume data samples may ed. SC RE E DA RE ST	DIL & RO EG GEOT ENGINEE ATE APP ESIDENT		CRIPTION AL U	INOFFI	nith CIAL	B.I.N	1022	2640

SM 282 PSN REGI	26 ON 5		ВС	DRNU	M	2	GE	STATE OF N DEPARTMENT OF T EOTECHNICAL ENG	RANSPORT	BUREAU		LINE	UD-S2- Baselin	ie		
COUI	NTY _E	RIE					<u> </u>	UNOFFIC				STA OFFSET	125+85 130 ft			
PRO	JECT K	ENSIN	IGTC	N EX	PRES	SWAY A	RTE	RIAL HIGHWAY,	000000000000000000000000000000000000000	020000000000	<u>.</u>	SURF. ELEV				
ACTU	JAL CO	ORDIN	ATES		,	1,992.00		E) 430,227.020	_ DATUM			DEPTH TO V	VATER	SEE	NOTE	
				E	DATE S	START .	07	-DEC-1965	DATE F	INISH _	09-DE	<u>C-1965 </u>				
CASIN	NG 0.1	D. 41	/2 ir	1	I. D.	4	in	WT OF HAMMER-	CASING	300	lb	HAMMER FAL	L-CASING	3	18	in
SAMP	LER O.	D. 3 1	/2 ir	1	I. D.	2 7/8	in	WT OF HAMMER-	SAMPLER	300	lb	HAMMER FAL	L-SAMPL	ER	18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.			ER in	MOIST CONT (%)		REC. 2	DESC	CRIPTION 15	N OF SO	IL AND ROCK				
	25.0							TILO. Z	.4 10076	13						

Dug by hand from 0 to 1 foot. Unable to press 20 inches on Tube 3, converted to jar sample. Drill water LOST from 21.75 to 25.75 feet. Used 2 7/8 inch casing from 15 to 21.75 feet.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
09-Dec-65	15:00	25.80	21.75	12.00		

BOTTOM OF HOLE AT 25.80 ft

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR L. Smith

SOIL & ROCK DESCRIPTION R. Smith

REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG

DATE APPROVED RESIDENT ENGINEER
STRUCTURE NAME B.I.N. 1022640

East Ferry St over Kensington Expressway

CONTRACT _____ CONTRACTOR

SHEET 2 OF 2 HOLE UD-S2-1

PSN REG COU PIN PRO ACT	NTY E	RIE 512.52 Y RT : DRDIN D. 3	2 33, C	OVE 6 _(I		IE KE 061,9 E STA D. 3	 ENSINO 97.860 ART	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E.	GINEERING I XPLORATIO DATUM DATE F	BUREAU NN LOG NAD8	3 I 17-AUG- Ib I	LINE STA OFFSET SURF. ELEV. DEPTH TO W	/ATER SE	SE NOTE 30 in 30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	MPLE NO.	S 0	BLOV AMP	VS OI	N in	MOIST. CONT. (%)					AND ROCK		
10	0.0	J1	6	12	18	<u>/ 24</u>	1.3%	(0.00) Gray B	rown Gravel	ly SILT ,	Sandy			(D-NW)
10														
12														
13														
13	5.0													
12		J2	7	8			3.1%	(5.00) Gray G	ravelly SAN	D, Silty				(M-NPL)
11					8									
13														
15														
20	10.0													
21	L _	J3	10	12			1.8%	(10.00) Gray C	oarse-Grain	ed Sandy	/ GRAVEL	-		(W-NPL)
21	L _				9									
30														
30														
30	15.0	J4	9				15.9%	(15.00) Brown	CLAV Son	<u></u>				<u></u>
40		J4	9	10	10		13.9%	(15.00) BIOWII	OLAT, Sali	uy				(IVI-FL)
100					10									
101														
115														
116	20.0													
		R1							60" 100%	10	o 25'4" R0	OCK		
								NW SI	NGLE TUBE	=				
	<u> </u>													
	25.0													
and acco pres the of th	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR Larry Muhammad Sr. SOIL & ROCK DESCRIPTION K. Haberer REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 11-FEB-2022 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N.													
COI	NTRACT		(CONT	ΓRAC	TOR			SHEET 1	OF 3		HOI	LE DN-X	-1

SM 282 PSN REGI COU	ION 5 NTY E		-	RNUM	1		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING E	UREAU		HOLE LINE STA OFFSET	DN-X-1	
PRO	JECT N	IY RT	33, CC	_(N) 1,	061,9	97.860	(E) 1,078,537.340			3	SURF. ELEV. DEPTH TO W	633.74	EE NOTE
CASII		D. 3		1.1	D. 3	_	_15-AUG-2017 in WT OF HAMMER		140		HAMMER FAL		30 in
	PLER O.		in Di	. I. OWS 0.		3/8	n WT OF HAMMER	-SAMPLER	140	lb	HAMMER FAL	L-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	SA 0 6	MPLER	in 18	MOIST. CONT. (%)		DESC	RIPTION	OF SOIL	. AND ROCK		
	25.0 	R2						Drilled from 60" 100% NGLE TUBE		30'4" R	OCK		
	30.0	R3					(30.30)Run_#3	Drilled from	30'4" To	35'4" R	 OCK		
	 							44.4" 74% NGLE TUBE	5				
		R4						Drilled from 60" 100% NGLE TUBE	11	0 40'4" R	оск — — —		
	40.0 — — — — — — 45.0	R5						Drilled from 60" 100% NGLE TUBE	40'4" To 13	0 45'4" R	ОСК — — —		
	50.0	R6						Drilled from 60" 100% NGLE TUBE		50'4" R	OCK		
and acce pres the of th	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR Larry Muhammad Sr. SOIL & ROCK DESCRIPTION K. Haberer REG GEOTECHNICAL ENGINEER Todd E. Nelson DATE APPROVED 11-FEB-2022 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N.												
CON	NTRACT		c	ONTRAC	CTOR			SHEET 2 (OF 3		HOI	LE DN-X	(-1

REGION 5	172 5 ERIE 5512.52	BORNU	IM <u>1</u>	_ _ _	STATE OF N DEPARTMENT OF T GEOTECHNICAL ENG SUBSURFACE EXP	RANSPORT	BUREAU		HOLE LINE STA	DN-X-1		
ACTUAL CO	ORDINA) 1,061,9 DATE STA	97.860 ART	(E) 1,078,537.340 15-AUG-2017	DATUM DATE F	INISH _	3 17-AUG		ATER _	SEE NOTE	
CASING O. SAMPLER O.		2 in in	I. D. 3 I. D. 1	-	n WT OF HAMMER-0 n WT OF HAMMER-9		140 140		HAMMER FALL		30 3 30	in in
CASING BLOWS/ft DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS SAMPL	FR in	MOIST. CONT. (%)		DESC	CRIPTIO	N OF SOIL	. AND ROCK			

BOTTOM OF HOLE AT 50.30 ft

First sample taken from auger. Bottom of hole at 50.3' Core Bit Number not available *Revised on 2/11/2022 to include missing rock core data, and to correct the casing size designation from DA-X-1 to DN-X-1.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVI⊑	HOLE	CASING	WATER		END OF DAY
17-Aug-17	11:00	53.30	20.00	24.00		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR Larry Muhammad Sr. SOIL & ROCK DESCRIPTION K. Haberer **REG GEOTECHNICAL**
 ENGINEER
 Todd E. Nelson

 DATE APPROVED
 11-FEB-2022
 REVISION # 1 RESIDENT ENGINEER STRUCTURE NAME B.I.N. HOLE DN-X-1

SHEET 3 OF 3

CONTRACT CONTRACTOR

SM 282 PSN REG COU	ION _5		_ B(ORN	UM _	22		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING	BUREAU		HOLE LINE		
PIN								UNOFFIC				OFFSE	62 ft LEF	Γ
	JECT <u> </u>							TERIAL HIGHWAY, (E) 430,294.950	SECTION DATUM				EV. <u>639.22</u> WATER SE	E NOTE
701	OAL OO	OHDIN	A1 E	_\!		START		22-MAR-1957	DATE F		26-MAF		WAILII <u>oi</u>	LINOIL
CASII			7/8 i i			2 3/8	in			300	lb 		ALL-CASING	18 ir
	PLER O.	D . 2	iı	n	I. D.	1 3/8	in	WT OF HAMMER	-SAMPLER	300	lb	HAMMER F	ALL-SAMPLER	18 ir
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	6	VS ON PLER in	CON	т. 📗		DES	CRIPTION	N OF SOI	L AND ROC	e K	
_	0.0			12		24		(0.00) Red Gr	ay SILT , S	ome Clay	,			(M-PL)
6		1												
8		-												
10														
16														
22	5.0													
		J5	4	7		<u> </u>	1							
21		-		'										
29		1												
41		-												
41		1								NE				<u>//</u>
32	10.0							(9.00) Red SII	_i , Some C	Jiay				(M-PL)
17		J6	2	3										
18		1												
		1												
31		1												
35		1												
30	15.0	J7	1				-+	(15.00) Red Br	own SII T	Some Cla				(M-PL)
19		ļ		1				(10.00)	J 3.2. ,	000	~)			()
19														
20														
25								(18.00) Red Br	own SILT ,	Some Cla	ay, Trace	Sand And I	ine Gravel	(M-PL)
	20.0	1												
37	20.0	J8	4	_	\vdash	+-	- {							
	<u> </u>	-		3										
		-												
	L =					Ш_	\rfloor	. 						
	25.0	R1						(24.00) Run #1 REC.	Drilled fron 54" 96.4%		o 28'8" I	ROCK , Sea	med And Hard	
and acce pres the	estimate ess to the sented in information	purpos same good fa on repre	ses. I inform aith. I esent:	t is mation By the	nade av n availa e natur y a sma	ailable s able to the e of the a all fractio	o the e St explo n of	oration process, the total volume	DRILL RIG SOIL & RO REG GEO ENGINEE DATE APF	OCK DESO TECHNIC ER	CRIPTIO	N R. Zeml		
	ne materia be indica							lata samples may d.	RESIDENT	ENGINE				
									STRUCTU	RE NAME			B.I.N	
COI	NTRACT		(CONT	TRACT	OR			SHEET 1	OF 2		H	OLE DH-G	32

PSN 262 REGION 5 COUNTY ERII PIN PROJECT KEN ACTUAL COORI CASING O. D. SAMPLER O. D. 25.0	ISINGTON EXP DINATES (N) DA 2 7/8 in 2 in BLOWS SAMPLE 0 6 12	RESSWAY 1,061,896.9 ITE START . D. 2 3/8 . D. 1 3/8 ON R in MOI COI	GEOTEC SUBSU VARTERIAL I 250 (E) 430 22-MAR- in WT C in WT C	TMENT OF HNICAL EN RFACE E NOFFIO HIGHWAY 294.950 1957 OF HAMMEN	DATUN DATE R-CASING R-SAMPLER	TATION BUREAU SON LOG		STA 124 OFFSET 62 1 SURF. ELEV. 63 DEPTH TO WATE	eline +90 t LEFT 39.22 R _SEE NOTE	in
				BOTT	OM OF HOI	E AT 28.67	ft			
	DATE	TIME		DEPTH ft		ARTESIA HEAD HEI		FILLED WITH WATER AT		
	26-Mar-57	15:00	28.67	20.00	9.92	ABOVE GR	OUND	END OF DAY		
The subsurface	information show.	n here was	obtained for d	esign	DRILL RIC	G OPERATO	R			
and estimate pur access to the sa presented in goo the information n of the material at	poses. It is made me information av d faith. By the na epresents only a	e available s vailable to tl ature of the small fraction lation betwe	so that users r he State. It is exploration pr on of the total v een data samp	nay have ocess, volume	SOIL & R REG GEO ENGINE DATE AP RESIDEN	OCK DESCR TECHNICAL ER	RIPTION - UN	NOFFICIAL LO	DG N.	
CONTRACT _	CONTRA	ACTOR _			SHEET 2	OF 2		HOLE	DH-G2	

PSN 282 PSN REG	ION 5		В	ORNI	JM	6	STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E UNOFFIC	GINEERING KPLORATIO	BUREAU ON LOG		LINE STA	DH-W7 Baseline 123+90 135 ft LEF	т
PRO- ACTI CASII	UAL CO	DRDIN		6 <u>(</u> [N) 1,06 DATE	1,797.010 START _ 2 3/8	RTERIAL HIGHWAY	SECTION DATUM DATE F	II NAD2	7 28-OCT Ib Ib	SURF. ELEV DEPTH TO V	V. 635.12 VATER SE L-CASING	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	VS ON LER in	MOIST. CONT. (%)		DES	CRIPTION	N OF SOIL	_ AND ROCK		
7 10 14	0.0	J1	6	7	8		(0.00) Topsoi (0.40) Red Br		Some Cla	y, Trace	Fractured Sto	one	(M-PL)
23 37 37 41 40	5.0	J2	6	10	14								
34 44 51 55 44		J3	3	4	5		(10.00) Red Br	own SILT , s	Some Cla	<u>y</u> – – – -			(M-PL)
27 24 27 27	20.0	J4	WOH	WOH	3								
33 44 72 200 228	25.0	J5	3	4	9		(20.00)	ay SILT , Si	ome Sand	d And Cla	y, Trace Frac	ctured Stone	(M-PL)
The and accepres the of the	estimate ess to the sented in g information ne materia	purpos same good fa on repre al at the	es. I inforn ith. I esent site.	t is m natior By the s only Inte	ade ava n availa e nature v a sma rpolatio	ailable so t ble to the S of the exp Il fraction o	ained for design that users may have State. It is oloration process, of the total volume data samples may red.	DRILL RIG SOIL & RC REG GEO ENGINEE DATE APF RESIDENT STRUCTU	OCK DESC TECHNIC ER PROVED FENGINE	CRIPTION AL U	J. Swartz N. R. Smith NOFFICIA	LLOG	
COI	NTRACT		(CONT	RACT	OR		SHEET 1	OF 2		НО	LE DH-W	17

ACTUAL COORDIN	VATES (N) 1,061,797. DATE START 7/8 in I. D. 2 3/8 in I. D. 1 3/8	SUBSURFACE EX UNOFFIC Y ARTERIAL HIGHWAY, 010 (E) 430,221.870 T	TRANSPORTATION GINEERING BUREAU (PLORATION LOG SECTION II DATUM NAD27 DATE FINISH 28-OC CASING 300 Ib	ractured Stone (M-NPL) ROCK, Seamed And
	Dug by hand from 0 to Used Solid Sampler for Used Solid Sampler for DATE TIME 28-Oct-65 15:00	1 foot. rock core run 1.	ARTESIAN HEAD HEIGHT ABOVE GROUNI 17.72	FILLED WITH WATER AT END OF DAY
and estimate purpo access to the same presented in good t the information repi of the material at th	ormation shown here was uses. It is made available to information available to to faith. By the nature of the resents only a small fracti e site. Interpolation betw the actual material encou	so that users may have the State. It is exploration process, on of the total volume een data samples may	DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION REG GEOTECHNICAL ENGINEER DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME	J. Swartz DN R. Smith UNOFFICIAL LOG B.I.N.
CONTRACT	CONTRACTOR _		SHEET 2 OF 2	HOLE DH-W7

PSN REG COU	ION _	62 5 ERIE	_ B(ORN	UM <u>4</u>	<u> </u>	DEPARTMENT O GEOTECHNICAL E SUBSURFACE	ENGINEERING	BUREAU =		LINE STA	UD-GA-3 Baseline 122+88	
CASI	UAL CC	ORDIN	ATES	<u> </u> n		,694.980 TART _ 4	RTERIAL HIGHWA (E) 430,261.790 29-MAR-1966 in WT OF HAMM	AY, SECTION DATUM DATE F ER-CASING	II <u>NAD27</u>		SURF. ELEV. DEPTH TO W	ATER SE	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	VS ON LER in	MOIST. CONT. (%)		DESC	CRIPTION (OF SOIL	AND ROCK		
	0.0			12	107 2		(0.00) Tops	oil					
10	 	T1				+		ription Of Und orm SM 401, U				ARY LOG	
16		T2				+		ription Of Und orm SM 401, L				MARY LOG	
42 62	5.0						(4.00) Red	Brown SILT ,	Trace To S	ome Clay	,		——(M-LPL)
42		L3	9	22	30	+		ription Of Und orm SM 401, L				MARY LOG	
74		L4	17	30	38	+		ription Of Und orm SM 401, L				MARY LOG	
95	10.0	J5	22	22	17	+	(8.50) Red	Brown SILT ,	Trace To S	ome Clay	, Trace San	d	(M-LPL
165 35	10.0	J6	5	8	11	 	(10.00) Red	Brown SILT , S	Some Clay				——(M-PL)
33		T7				+		ription Of Und orm SM 401, L				MARY LOG	
23 26		T8				+ -		ription Of Und orm SM 401, U				MARY LOG	
24	15.0	T9				†		ription Of Und orm SM 401, L				ARY LOG	- — — — —
<u>21</u> 17	 	L10	1	2	2	†		ription Of Und orm SM 401, U				MARY LOG	
15		T11				 	(17.50) Desc on Fo	ription Of Und orm SM 401, L				MARY LOG	
27 18	20.0	T12				 		ription Of Und orm SM 401, L				MARY LOG	
18		T13				†	(20.50) Desc on Fo	ription Of Und orm SM 401, L	listurbed So JNDISTUR	oil Sampl BED SAM	es Shown MPLE SUMN	MARY LOG	
11 21	<u> </u>	L14	5	8	18	 	(22.00) Desc on Fo	ription Of Und orm SM 401, L				MARY LOG	
27		J15	29			+	(23.50) Brow	n SAND , Son	ne Silt, Tra	ce Clay			(M-LPL
27	25.0			66	86								
The and acce pres	estimate ess to th sented in informat	e purpos e same good fa ion repr	ses. I inforn aith. I esent:	t is mation By the	nade avai n availab e nature i ⁄ a small	ilable so t le to the S of the exp fraction o	ained for design hat users may have State. It is bloration process, of the total volume data samples may		TECHNICA ER	RIPTION L	M. Muehlb R. Smith		
						encountei		RESIDENT	ENGINEE RE NAME	R		B.I.N	
COI	NTRACT	-	,	CONIT	ГВАСТО	D		SHEET 1	OE 2		НΟІ	E UD-G	Λ_3

SM 282 PSN	E 12/02 26	2	_ B(ORNU	JM _	4			ARTMENT O		RTATION		HOLE L	JD-GA-3		
REGI	ON _5								ECHNICAL E			==	LINE E	Baseline		
COU	NTY E	RIE							SURFACE E			· =	STA 1	22+88		
PIN									JNOFFI	CIAL L	OG	···	OFFSET 9	5 ft LEF	Г	
PRO	JECT K	ENSI	NGTO)NE)	(PRE	SSW	AY AI	RTERIA	L HIGHWA	Y, SECTIO	N II		SURF. ELEV.	635.76		
	JAL CO								30.261.790	DATU		27	DEPTH TO WA		E NO	TE
				_	DATE				R-1966		FINISH	26-APF	_			
CASII	NG O. I	D. 4	1/2 iı		I. D.	_	_		T OF HAMME		300	lb	HAMMER FALL-	CASING	18	in
SAME			1/2 i	-	I. D.	-			OF HAMME			lb	HAMMER FALL-S		18	in
			T				,,,				. 000			J,		
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	6 12 18 24														
	25.0	J16	46					(25.	00) Brown	n SILT , Sor	ne Sand A	and Fractu	ired Stone, Trac	e Clay	(1)	M-LPL)
42				26												
					117											
87	,								Broke	n		o 27'9" F	ROCK , Seamed	And		
	REC. 12" 100% 8 BOTTOM OF HOLE AT 27.75 ft															
			D., ~ !	u be	ad fra	m 0 +-	- 1 f-	o.t	вотт	OM OF HO)LE AT 27.	/5 ft				
	Dug by hand from 0 to 1 foot. Refusal encountered on Tube 2, converted to jar sample.															
	DEPTH ft ARTESIAN FILLED WITH HEAD HEIGHT WATER AT															
			٦					HOLE	CASING	WATER	ABOVE (l l		

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
20-Apr-65	15:00	23.50	23.00	17.50		
26-Apr-65	15:00	27.75	26.75	17.46		

DRILL RIG OPERATOR M. Muehlbauer SOIL & ROCK DESCRIPTION R. Smith **REG GEOTECHNICAL UNOFFICIAL LOG ENGINEER** DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N.

CONTRACT CONTRACTOR

HOLE UD-GA-3 SHEET 2 OF 2

SM 282 PSN REGI			_ В	ORN	UM	7	DEPARTMENT (GEOTECHNICAL	ENGINEERING	BUREAU		HOLE	DH-E8 Baseline	
COU	NTY _E	RIE					SUBSURFACE	ICIAL LO		• =	STA	119+25	
PIN	IFOT -	/ENIOIN	IOTO	SNI E	VDDE							60 ft LEFT	
						55WAY AF 61,331.950	RTERIAL HIGHWA (E) 430,296.500			 27	SURF. ELEV	7. <u>636.54</u> NATER SE	E NOTE
ACI	DAL CO	JADIN	AIL	<u> </u>		START	02-OCT-1965	DATE F		01-NO		WAIER _SL	LINOIL
CASII	NG O.	D. 2	7/8 iı	n		_	n WT OF HAMM		300	lb	HAMMER FAI	LL-CASING	18 in
SAME	PLER O.	D. 2	iı	n	I. D.	1 3/8 i	n WT OF HAMM	ER-SAMPLER	300	lb	HAMMER FAI	LL-SAMPLER	18 in
ť					VS ON								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	LER in	CON I.		DES	CRIPTIO	N OF SOI	IL AND ROCK		
			6	12	18	24							
	0.0						(0.00) Tops	soil Brown SILT,	~= <i>-</i> ~				
	- -	J1	4				(0.50) Red	Brown SILI ,	Some Cia	ay			(M-PL)
13		"		7									
					7								
19													
07													
27	- -												
40	5.0												
		J2	7										
38	<u> </u>			11	14								
40					'								
	_												
49													
07													
27		1											
32	10.0												
		J3	4	_									
30				7	9								
35					9								
33													
50													
47	<u> </u>												
45	15.0												
		J4	2			18%	(15.00) Red	Brown SILT ,	Some Cla	ay, Trace	Fractured St	one	(M-PL)
33				4	4								
27					4								
25	<u> </u>]											
30	 	1											
	20.0						L						
		J5	200				(20.00) Red	Brown SILT ,	Some Fra	actured S	Stone And Cla	y, Trace Sand	(M-PL)
	<u> </u>	R1					(20.42) \ Run Brok		1 20'5" T	0 21'5"	HOUK , Seam	ied And	
		R2					BIOK (21.42)_REC		7				<i>,</i> ————
	<u> </u>	1					`Run	#2 Drilled fron		o 23'5" I	ROCK , Seam	ned And	
	<u> </u>						Brok	en . 22" 91.7%	0				
		R3			\vdash	+				0 25'5"	ROCK Seam	ned And	
	- -	```					Brok	en		2 _ 2 0 0 1		.5371114	
	25.0						REC	. 24" 100%	12				
							ained for design	DRILL RIG			J. Swartz		
						allable so table to the S	hat users may have State. It is	SOIL & RO			N R. Smith		
pres	sented in	good fa	aith. L	By the	e natur	e of the exp	loration process,	ENGINE	-		JNOFFICIA	LL LOG	
							f the total volume	DATE APP					***
						n between I encounter	data samples may ed.	RESIDENT		ER _			
						2303/110/		STRUCTU	RE NAM	E		B.I.N	
~~-	UTD 4 CT					OD.		OUTET 1	OF 2		110	LE DH-E	0
COL	NTRACT		(JUN	TRACT	UK		SHEET 1	Ur 2		пС		U

SM 282	E 12/02							STATE OF	NEW YORK							
PSN	26	2	ВО	RNUM	7		DE	EPARTMENT OF		ATION		HOLE	DH-E8			
REGI	ON 5							OTECHNICAL EN				LINE	Baselir	ne		
COU	NTY E	RIE				_	SU	BSURFACE EX			<u>=</u>	STA	119+25	5		
PIN						_		UNOFFIC	JIAL LO	G	··· –	OFFSET	60 ft L	EFT		
PRO.	JECT K	ENSIN	IGTO	N EXPR	ESSV	VAY AI	RTER	IAL HIGHWAY.	SECTION	II		SURF. ELEV	. 636.	54		
ACTU	JAL CO	ORDIN	ATES	(N) 1,	061.3	31.950	(E)	430,296.500	DATUM	NAD	27	DEPTH TO V	VATER	SE	E NOTE	
				DAT	E ST	ART	02-0	OCT-1965	DATE F	INISH	01-NO	V-1965				
CASIN	NG 0.1	D. 27	7/8 in	1.1) . 2	2 3/8	in	WT OF HAMMER	-CASING	300	lb	HAMMER FAL	L-CASING	G	18	in
SAMP	LER O.	D. 2	in	1. 1) . 1	3/8	in	WT OF HAMMER	-SAMPLER	300	lb	HAMMER FAL	L-SAMPL	.ER	18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		LOWS O	in 18	MOIST. CONT. (%)			DESC	CRIPTIO	N OF SOI	IL AND ROCK				
	25.0	<u> </u>			<u> </u>			ВОТТС	M OF HOLI	E AT 25	.42 ft					

ARTESIAN FILLED WITH **DEPTH** ft DATE TIME **HEAD HEIGHT** WATER AT WATER HOLE CASING

10.75

19.00

ABOVE GROUND

END OF DAY

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

15:00

01-Nov-65

25.42

DRILL RIG OPERATOR J. Swartz SOIL & ROCK DESCRIPTION R. Smith **REG GEOTECHNICAL UNOFFICIAL LOG ENGINEER** DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N.

CONTRACT CONTRACTOR

HOLE DH-E8 SHEET 2 OF 2

SM 282			D/	וואסכ	18.4	0		DEDA			NEW YORK				<i>,</i> 0		
PSN REGI	<u>869</u> ON 5	14	- B(DRNU	IVI	9_	_				TRANSPOR GINEERING			HOLE FH-	(-9		
COU		RIE					_		_	_	PLORATION			STA 96+	1 00		
PIN			2 100				_				ARY L		*** =			ГГТ	
		512.36			NA/O/	^ IZ 7					/ = \ \	~~		SURF. ELEV.	8 ft L	<u>EFI</u>	
	IECT N								0-	15.000	DATUM	. NAD	07			EE NOT	_
SCAL	ED COO	KUIN	AIES	_			91.840				_ DATUM			DEPTH TO WATE	1 <u>S</u>	EE NOT	
0401					DATE	-	_	22-SEP			DATE	FINISH _		<u>:P-1999</u>			
CASIN			ower ir		I. D.		•		-	HAMMER-		000	lb 	HAMMER FALL-CAS		40	in
SAMP	LER O. [) . 2	ir	1	I. D.	1	1/2 i	n WT	OF	HAMMER-	SAMPLER	308	lb	HAMMER FALL-SAN	PLEK	18	in
ج <u>ت</u>	≠>∺	ш	E	BLOW	S ON												
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMPL	ER ir	า	MOIST. CONT.				DEG	CDIDTIC	N 0E 90	OIL AND ROCK			
F S	민칙류	ξŽ	0 /	6 /1	I2 /1	8 /	(%)				DES	CHIPTIO	IN OF 3C	AND HOCK			
ОМ		(C)	6	/12	18	/	, ,										
	0.0	J1	32	7 127	10/	24	4%	(0.0)	0)	Grav Br	own Grave	IIv SANE	Silty W	/ith Slag		(M	I-NPL)
	• • •	•		19			.,.	(0.0	-,	·		,	, 			(
ı					18												
		J2	19				6%										
Ī				22													
					32												
		J3	21				12%										
				17													
	- 0		0.4		10												
	5.0	J4	21				10%										
		R1		50				(5.2	0)				6'2" Lī	MESTONE			
											10.8" 90%			10011			
									\		L. TUBE S			'S344		/	
			Droar	00000	l hala	חם	V to 1 6	505 moto	ro	ROLLO	M OF HOL	.⊨ A I 6.2	20 ft				
								585 metei : at 1 585		otore							

Station and offset from Record Plans.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVI	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
22-Sep-99	13:00	6.20	5.20	4.20		NO
22-Sep-99	13:15	6.20	0.00	NONE		NO

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR	R.N.SCHMITT
SOIL & ROCK DESCRIPTION	J.A.DENNEE
REG GEOTECHNICAL	
ENGINEER PRE	ELIMINARY LOG
DATE APPROVED	
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N
SHEET 1 OF 1	HOLE FH-X-9

CONTRACT CONTRACTOR

M 282 PSN REGI COUI	ON	262 5	? RIE	. ВО	ORN	UM _	21	_ _ _	DEPARTMENT OF GEOTECHNICAL E SUBSURFACE E	NGINEERING	BUREAU ON LOG		LIN ST	A 113+42	· T
PRO. ACTU	JAL C	00 o. d	RDIN		<u>[]</u> 1		60,7 E ST D. 2	48.980 ART _ 3/8	RTERIAL HIGHWA	Y, SECTION DATUM DATE F	II NAD2	7 22-MAI Ib Ib	DEPTH TO R-1957 HAMMER F	T 100 ft LEF EV. 640.18 D WATER SE FALL-CASING FALL-SAMPLER	
CASING BLOWS/ft	DEPTH ft BELOW	SURFACE	SAMPLE NO.	S	AMP	/	n 18	MOIST. CONT. (%)		DES	CRIPTION	NOF SO	IL AND RO	CK	
7	0.0			. 6	12	7 10			(0.00) Red S	SILT , Some (Clay				(M-PL)
7															
13															
18															
30	5.0														
26			J1	5	10										
39															
56															
64															
75	10.0	1													
58			J2	6	7										
39															
51															
57															
84	15.0														
90			J3	2	4										
81															
78															- — — — — -
101									(18.00) Red G Grave		ome Clay	, Trace \	Very Fine S	and And Fine	(M-PL)
127	20.0														
95		_ .	J4	6	6										
91															
94		\Box													
146		\downarrow	R1							1 Drillad fra		_ <u></u>			
	25.0		ΠI						(24.00) Run # REC.	55" 91.7%	124U I(U 29 U	noon , na	iu	
and acce pres the i of th	estima ess to t sented informa ne mate	te p he s in g atior erial	ourpos same l ood fa n repre at the	ses. I inforn aith. I esents e site.	t is m nation By the s only Inte	nade a n avai e natu / a sn rpolat	vaila lable re of nall fr ion b	ble so to to the S the exp action o	ained for design hat users may have State. It is loration process, f the total volume data samples may ed.	DRILL RIG SOIL & RC REG GEO' ENGINEE DATE APP RESIDENT STRUCTU	DCK DESC TECHNIC ER PROVED FENGINE	CRIPTIO AL L	N R. Zem	ila B.I.N.	
	NTRAC			(SHEET 1		-		B.I.N	

PSN REGI COUI PIN PRO ACTU	ION _ NTY _ JECT _ UAL C	OORDIN 0. D . 2	7/8 in I	RESSWAY	GEOT SUB ARTERIA 980 (E) 4 20-MA in W	PARTMENT OF ECHNICAL E SURFACE E UNOFFI AL HIGHWAY	NGINEERIN EXPLORAT CIAL L Y, SECTIO — DATU DATE ER-CASING	RTATION G BUREAU ION LOG OG N II M <u>NAD2</u> E FINISH _ 300		HOLE	Baseline 13+42 00 ft LEF 640.18 TER SE		in
CASING BLOWS/ft	DEPTH #	SAMPLE NO.	BLOWS SAMPLEI 0 6 12 1	- NAOI	NT.		DE	SCRIPTIO	N OF SOII	L AND ROCK			
						ВОТТ	OM OF HO	DLE AT 29.	00 ft				
			DATE	TIME		DEPTH ft		ARTE HEAD H		FILLED WIT WATER AT			
			22-Mar-57	15:00	HOLE 29.00	CASING 24.00	9.42	ABOVE (GROUND	END OF DA	Y		
				10.00	20.00	21.00	0.12						
and acce pres the i	estima ess to the sented i informa ne mate	te purpo ne same n good f tion repr rial at th	ormation shown ses. It is made information av aith. By the na resents only a re site. Interpol the actual mate	e available s railable to th ture of the small fraction lation between	so that use he State. It exploration on of the to een data sa	rs may have t is n process, tal volume	SOIL & I REG GE ENGIN DATE A RESIDE	OTECHNIC	CRIPTION CAL U	N R. Zemla	LOG B.I.N.		
CON	NTRAC	т	CONTRA	CTOR _			SHEET	2 OF 2		HOLE	E DH-G	i1_	

PSN REGI COU	ION	262 5 ERIE	_ B	ORN	UM .	1		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E UNOFFIC	IGINEERING XPLORATIC	BUREAU ON LOG		LINE STA	DH-S1-2 Baseline 112+80	
CASII	UAL C	OORDIN D. D. 2	7/8 i	S <u>(</u>	N) 1,0	060,6 E ST D. 2	86.950 ART _ 2 3/8	RTERIAL HIGHWAY	, SECTION DATUM DATE F R-CASING	II <u>NAD2</u>	7	SURF. ELEV DEPTH TO V	VATER SI	
CASING BLOWS/ft	DEPTH # BELOW	SAMPLE NO.	0	BLOV SAMP	LER 12	in 18	MOIST. CONT. (%)		DES	CRIPTION	I OF SOIL	AND ROCK		
	0.0			12	10			(0.00)_ Topsoi						(M-NPL
		J1	3					(0.37) Black (SILT, Trace	Sand And	d Organic			(101 141 L
19				3	5									
22			•											
21														
25	5.0													
	0.0	J2	3	7				(5.00) Red Br	own SILT ,	Some Cla	y, Trace S	Sand And Fra	actured Ston	e (M-PL)
12	-	=		'	12									
29		_												
36														
54														
74	10.0													
42		J3	5	9			T							
	-			`	11									
41														
45														
68	<u> </u>													
69	15.0	_	<u> </u>				<u> </u>							
65		J4	4	5										
101					7									
116	-													
110	<u> </u>	_												
100	20.0	J5	2			_	L	(20.00) Lost Sa						
75			-	6	_			(20.00) Lost 36						
83					7			(21.50) Red Br	own SILT ,	Some Cla	y, Trace S	Sand And Fra	actured Ston	e — (M-PL)
87														
		J6	3	5				1						
87	<u> </u>				7									
	25.0						<u> </u>	 						
								tained for design that users may have	DRILL RIG			R. Scott R. Smith		
acce	ess to t	he same	infori	matio	n ava	ilable	to the	State. It is	REG GEO	TECHNIC	AL			
the	informa	tion repr	resent	ts only	y a sr	nall fr	action o	oloration process, of the total volume	ENGINEE DATE APP		Ul	NOFFICIA	L LOG	
		rial at th ative of						n data samples may red.	RESIDENT	ENGINE				
									East Utica			n Expresswa	B.I.N.	1022630
COL	NTRAC	т		CONT	TDAC	TOR			SHEET 1			HO	LE DH-S	21_2

SM 282 PSN REGI COUI PIN			_ B(ORNU	JM _	1		GEOT SUB	STATE OF PARTMENT OF ECHNICAL EN SURFACE E UNOFFI	NGINEERIN XPLORAT	RTATIO G BURE ION LO	AU =					
	IECT K	FNSI	VIGTO)N E	XPRE	SSV	 VAY 4	000000000000000000000000000000000000000	L HIGHWAY	075000000000000000000			9	SURF. ELEV.			
									30,296.000	DATU		AD27	_	DEPTH TO WAT		F NOTE	
					DATE				C-1965		FINISI		_ B-DEC-				
CASIN	NG 0. I	D. 2	7/8 iı			. 2	-		/T OF HAMMEI		300			HAMMER FALL-CA	ASING	18	in
SAMP	LER O. I	D. 2	ir	n	I. D	. 1	3/8	in W	T OF HAMME	R-SAMPLER	300)	lb I	HAMMER FALL-SA	AMPLER	18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	6	VS ON LER i	n 18	MOIST CONT (%)			DE	SCRIP [®]	TION O	F SOIL	AND ROCK			
	25.0	J7	12	12	18	24		(25	5.00) Lost S	ample							-
		R1		6				,	5.58) Run #	1 Drilled fro	25'7	7" To 2	9'4" R	OCK , Seamed A	And — — —		
-	30.0	R2						(29	Broker	า		103	0'7" R	JCK , Seamed <i>F</i>	Ana		
	Broken REC. 15" 100% 9 BOTTOM OF HOLE AT 30.58 ft Dug by hand from 0 to 1 foot. Lost samples 5 and 7.																
			D	ATE		TIM	E -		DEPTH ft			RTESIA ND HEIO		FILLED WITH WATER AT			
		-			_			HOLE	CASING	WATER	ABO\	/E GRC	DUND	END OF DAY			
			28-[Dec-6	55	15:0	00	30.58	24.00	9.00							

DRILL RIG OPERATOR R. Scott

SOIL & ROCK DESCRIPTION R. Smith

REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG

DATE APPROVED
RESIDENT ENGINEER
STRUCTURE NAME
East Utica St over Kensington Expressway

CONTRACT _____ CONTRACTOR

SHEET 2 OF 2 HOLE DH-S1-2

PSN REGI COU PIN PRO SCAI	JECT LED CO	ORDIN	6.122 UTE ATES	: 33, E 6 _(I		0AK 7 060,4 E STA	27.670 ART _ .uger	GEOTE SUBS P UTE 198 (E) 43 15-SEI in W	ARTMENT OF CHNICAL ESURFACE IN RELIMI B 30,307.540 P-1999 F OF HAMME	DATE	RTATION G BUREAU ION LOG _OG MNAD E FINISH	15-SEP-	OFFSET 48 SURF. ELEV. DEPTH TO WATE	+25.00 ft RIGHT ER SEE	in
CASING BLOWS/ft	DEPTH ft BELOW SLIBFACE	SAMPLE NO.			VS OI PLER I		MOIST. CONT. (%)			DE	SCRIPTIC	ON OF SOIL	. AND ROCK		
	0.0		6	12	/ 18	<u></u>		(0.	00) Gray	Sandy Ang	ular GRAN	/EL			
	5.0	J1	34	17	7		3% 	(3.	50) Gray	Sandy Ang	ular GRAV	/EL ,Silty			(M-NPL)
	_	J3	6	25 6	19		6% 		, •	Sandy Ang			ilayey		(W-LPL)
	10.0	J4 	11	3	6		6% 3%	(8.	00) Gray	Sandy Ang	ular GRA\	/EL			(W-NPL)
		J6 R1	9	30	50				20) Run #	Sandy Ang	om 12'2" -		Vood MESTONE		(W-NPL)
		-	Went Enco	two unter	times ed we	for s et cor	ample nditions	718 mete number s in samp ord Plan	AW D BOT1 ers. 5. ple number	BL. TUBE OM OF HO	SWIVEL E		344		
			С	ATE		TIM	E		DEPTH ft			ESIAN HEIGHT	FILLED WITH WATER AT		
			15-	Sep-9	99	14:1		HOLE 13.20	CASING 12.20	WATER 4.60	ABOVE	GROUND	NO END OF DAY		
			15-	Sep-9	99	14:2	20	13.20	0.00	NONE			NO		
and	estima	e purpo	ses.	lt is m	nade a	vaila	ble so t	ained for hat users State. It	s may have	SOIL & I		SCRIPTION	R.N.SCHMITT J.A.DENNEE		
pres the of th not	sented i informa ne mate	n good f tion repi rial at th ative of	aith. resent e site. the ac	By the s only Inte	e natu y a sm rpolat	re of nall fra ion be al en	the exp action o etween	oloration of the tota data sar		ENGIN DATE A RESIDE	PPROVED NT ENGIN URE NAM	PR) EER		L OG I.N	

SM 282 PSN REGI	ION 5		ВС	DRNI	JM1	15	DEPARTMENT OF GEOTECHNICAL EN	GINEERING	BUREAU		HOLE	DH-W15 Baseline	
COU	NTY _E	RIE					SUBSURFACE EX UNOFFICE			=	STA	109+30	
PIN PRO	JECT K	ENSIN	IGTO	N E	XPRES	SWAY A	RTERIAL HIGHWAY.				OFFSET SURF. ELEV	<u>185 ft LEF</u> . 649.44	<u> </u>
						0,336.930		_ DATUM		7	DEPTH TO V		E NOTE
					DATES	_	02-NOV-1955	DATE F		04-NOV			
CASII	NG O. PLER O.		7/8 ir ir		I. D. I. D.		in WT OF HAMMER in WT OF HAMMER		300 300	lb lb	HAMMER FAL		18 in 18 in
						0,0							
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S 0	AMP	VS ON LER in	/		DES	CRIPTION	I OF SOII	L AND ROCK		
10	0.0		<u> </u>	<u> 12</u>	/ 18/	24	(0.00) Red Bro	own SILT , S	Some Cla	y, Trace	Sand And Gr	avel	(M-PL)
19													
31													
31													
36	5.0	J200	14			-							
57		3200	14	18									
63													
82													
93													
112	10.0	J201	13				-						
73				12			(11.00) Red Gr	ay SILT , So	ome Clay	, Trace S	and And Grav	 /el	
60								•					
64													
74													
81	15.0	J202	4			+	_						
76				6									
65 66													
73													
90	20.0												
100		J203	4	6									
125	<u> </u>												
144													
125													
122	25.0					<u> </u>							
and acce pres the of th	estimate ess to the sented in information ne materia	purpos same good fa on repre al at the	es. I inforn ith. E esents site.	t is m natior By the only Inter	ade ava n availal e nature v a smal rpolation	ailable so the so the so the so the exp of the exp Il fraction o	ained for design that users may have State. It is bloration process, of the total volume o data samples may red.	DRILL RIG SOIL & RC REG GEO ENGINEE DATE APP RESIDENT STRUCTU	OCK DESC TECHNIC ER PROVED ENGINE	CRIPTION AL U	N R. Zemla	L LOG B.I.N.	
CO	NTRACT		,	דוארי	RACTO	ne.		SHEET 1			нО	LE DH-W	/15
COL	TINACI				THUIL	J⊓		SHEEL	UF 2		110	DII-V\	110

SM 282	E 12/02							OTATE OF	E NEW YOR	V				
PSN	26		BOF	RNUM	15	_		STATE OF ARTMENT OF ECHNICAL EI		RTATION	=		DH-W15	
COU	_	RIE				_		SURFACE E					Baseline 109+30	
PIN		-1111				_		JNOFFI	CIAL L	OG	=		185 ft LEF	·T
								L HIGHWAY				SURF. ELEV.		
ACT	JAL CO	ORDIN	ATES		060,33 E ST <i>F</i>			30,170.800 V-1955	DATU	M <u>nad2</u> Finish	<u>27 </u>	DEPTH TO WA	ATER SE	E NOTE
CASII	NG O. PLER O.		7/8 in	I. I	D. 2	3/8	in W	T OF HAMME T OF HAMME	R-CASING	300	lb	HAMMER FALL HAMMER FALL		18 in 18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	SAI	OWS OMPLER	in 18	MOIST. CONT. (%)			DE	SCRIPTIO	N OF SOIL	. AND ROCK		
95	25.0	J204		6	24		(25.	.00) Red G	iray SILT ,	Some Clay	/, Trace Sa	and And Grave	el	(M-PL)
131														
168 263	<u> </u>													
273	30.0	J205	15				-							
80		'J205	1 19 1	•	• •		•	BOTT	OM OF HO	DLE AT 30.	25 ft			
		ı	Flint-Lin	nestone	e rock,	, seam	ed and v	∕ery hard, er	ncountered	at 30.25 fe	eet.			
			DA	ГЕ	TIM		UOL F	DEPTH ft	WATER	ARTE HEAD H	HEIGHT	FILLED WIT	T	
			04-No	v-55	15:0		30.25	CASING 30.25	9.50	ABOVE (AROUND	END OF DA	AY	
and acce pres the of th	ess to the sented in information	purpose same good factorial purpose pu	ses. It is informa aith. By esents c e site. Ii	s made a tion ava the nati only a sr nterpola	availal uilable ure of mall fra tion be	ble so to to the s the exp action o etween	that user State. It oloration of the tota data sal	s may have	SOIL & F REG GE ENGIN DATE AI RESIDEI	OTECHNIC	CRIPTION CAL U	R. Zemla NOFFICIAL	_ LOG	

RESIDENT ENGINEER STRUCTURE NAME

SHEET 2 OF 2

CONTRACT

CONTRACTOR

B.I.N. HOLE DH-W15

SM 282 PSN REGI			В	ORNI	JM	14		STATE C DEPARTMENT C GEOTECHNICAL E				HOLE LINE	DH-W14 Baseline	
COU		RIE						SUBSURFACE			=	STA	109+28	
PIN									ICIAL LC				133 ft LEF	T
	JECT <u>K</u> UAL CO							<u>FERIAL HIGHWA</u> (E) 430,222.800	<u>Y, SECTION</u> DATUM		7	SURF. ELEV	'. <u>649.33</u> V ater se	E NOTE
ACIO	DAL CO		AIL.			START		04-NOV-1955	DATOM		. <u>/</u>		VAILII _OL	LINOIL
CASII			7/8 ir	1		2 3/8	in			300	lb	HAMMER FAL		18 in
SAME	PLER O.	D. 2	ii	1	I. D.	1 3/8	in	WT OF HAMMI	R-SAMPLER	300	lb	HAMMER FAL	L-SAMPLER	18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	VS ON LER in	CON	т.		DES	CRIPTION	N OF SOI	L AND ROCK		
	0.0		<u> </u>	<u>/ 12</u>	/ 18 /	24	+	(0.00) Red I	Brown SILT ,	Some Cla	ay, Trace	Sand And Gr	avel	(M-PL)
16														
36														
93														
95	 5.0													
54	3.0	J195	6	11		 								
27 56	<u> </u>			''										
78														
112														
161	10.0													
58		J196	8	11			Ī	(10.00) Red	Gray SILT, S	ome Clay	, Trace S	Sand And Gra	vel	(M-PL)
50														
47														
53														
58	15.0	J197	5			<u> </u>	_							
60		0197	3	9										
68	<u> </u>													
75														
95														
100	20.0	J198	3			+	-							
74	<u> </u>			5										
100														
160	<u> </u>													
152														
152	25.0				<u> </u>	<u> </u>	+		DDII					
and acce pres the of th	estimate ess to the sented in g information	purpos same good fa on repre al at the	es. I inforn ith. I esent site.	t is m natior By the s only Inte	ade av n availa e nature v a sma rpolatio	ailable sobble to the of the of the of the only fraction on between	o tha e Sta explo n of a en d	oration process, the total volume lata samples may	DRILL RIG SOIL & RC REG GEO ENGINEI DATE APF RESIDENT STRUCTU	DCK DESC TECHNIC ER PROVED FENGINE	CRIPTIOI AL U	N R. Zemla	L LOG	
CO	NTRACT		,	דוא	RACT	ΛR			SHEET 1		_	НΟ	LE DH-V	V14
JUI	TITALI		(IUMUI	JII				JI 2		110	レニ・۷	v 1 T

SM 282		_								NEW YORK		_=				
PSN	26		_ В	ORN	UM _	14	_			TRANSPOR IGINEERING			HOLE	<u>DH-W14</u>		
REGI							_		-	XPLORATION	-	=	LINE	Baseline		
COU	NIY _E	RIE					_	statatatatatatatatatatatatat	ananamanananananan	CIAL LC	varararararara	₩ =	STA	109+28		
PIN		TNOU	UOT		VDD	-001							OFFSET	133 ft LE	<u>FI </u>	
										', SECTION			SURF. ELEV			
ACI	JAL CO	JKDIN	AIE	5 _(NAD:		DEPTH TO V	VAIER _S	EE NO	IE
0401		•	7/0		DAT	_	_	04-NOV-1		DATE			V-1955		40	•
CASI	-		7/8 i i		1. [_	F HAMMEF	R-SAMPLER	300	lb	HAMMER FAL		18	in
SAME	PLER O.	D. 2	<u> </u>	n	1. [). I	3/8	in WTO	FHAMME	H-SAMPLER	300	lb	HAIVINER FAL	L-SAMPLER	18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 6	6	/	in 18	MOIST. CONT. (%)						IL AND ROCK			
130	25.0	J199	5	6				(25.00)	Red G	ray SILT , S	ome Cla	y, Trace	Sand And Grav	vel	((M-PL)
130																
130																
131																
131																
179																
200																
200									BOTTO	OM OF HOL	E AT 29	.84 ft				
		·	Flint-	Lime	stone	rock	k, seam	ed and very	/ hard, en	ncountered a						
1					- 1		1									

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
07-Nov-55	15:00	29.84	29.84	7.00		

DRILL RIG OPERATOR

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL

ENGINEER UNOFFICIAL LOG

DATE APPROVED

RESIDENT ENGINEER

STRUCTURE NAME

B.I.N.

CONTRACT _____ CONTRACTOR

SHEET 2 OF 2 HOLE DH-W14

PSN 282 PSN REG COU	ION 5		BORNI	UM <u>13</u>		DEPARTMENT GEOTECHNICAI SUBSURFACI	OF NEW YORK OF TRANSPOR ENGINEERING E EXPLORATIO	BUREAU ON LOG		LINE STA	PH-10E Baseline 109+00.5 105.7 ft LE	
PRO- ACT	UAL CO	D. 27	TES (XPRESS' N) 1,060,3 DATE ST I. D.	307.400 ART _ 2 3/8	RTERIAL HIGHW (E) 430,249.98 19-OCT-1955 in WT OF HAM	/AY, SECTION	II NAD27	19-OCT-	SURF. ELEV DEPTH TO V	. <u>650.1</u> /ATER <u>8.25</u> L-CASING	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	SAMP	VS ON LER in	MOIST. CONT. (%)		DES	CRIPTION	OF SOIL	AND ROCK		
	5.0						Samples Taker Inch Cased Pro					
and acc	l estimate ess to the	purpose same ii	es. It is m nformation	ade availa n available	able so t to the S	ained for design hat users may hat State. It is	SOIL & RO	TECHNICA	RIPTION	R. Zemla		
the of th	information he materia	on repreal	sents only site. Inte	/ a small f	raction c petween	ploration process, of the total volume data samples ma red.	V DATE API	PROVED FENGINEE		NOFFICIA	B.I.N.	
COI	NTRACT		CONT	TRACTOF	2		SHEET 1	OF 2		НО	LE PH-10	E

PSN REG COU PIN PRO ACT	JECT K	RIE ENSII ORDIN D. 2	NGTON E		 WAY AF 807.400 ART 2 3/8 i	STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX UNOFFIC RTERIAL HIGHWAY (E) 430,249.980 19-OCT-1955 n WT OF HAMMER	GINEERING XPLORATIC CIAL LO , SECTION DATUM DATE FI-CASING	BUREAU ON LOG I G II <u>NAD27</u>	7 19-OC ⁷ Ib	HOLE P LINE B STA 1 OFFSET 1 SURF. ELEV. DEPTH TO WA T-1955 HAMMER FALL-C	aseline 09+00.5 05.7 ft LEF 650.1 TER 8.25	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		WS ON PLER in	MOIST. CONT. (%)		DES	CRIPTION	OF SOI	L AND ROCK		
	30.0	R1				2.5 Incl 2.5 Incl 2.5 Incl 2.5 Incl 2.5 Incl 2.5 Incl 2.5 Incl		bbe Hole	√34'8" F	ROCK , Seamed	Ānd	
and acco pres the of th	l estimate ess to the sented in s information ne materia	purpos same good fa n repro al at the	ses. It is n informatio aith. By th esents onle site. Inte	nade availa n available e nature oi ly a small fi	able so to to the S f the exp raction o petween	oloration process, of the total volume data samples may	DRILL RIG SOIL & RC REG GEO' ENGINEE DATE APP RESIDENT STRUCTU	OCK DESC TECHNICA ER PROVED TENGINE	CRIPTION AL L ER	N <u>R. Zemla</u> JNOFFICIAL	LOG	
COI	NTRACT		CON	TRACTOR	l		SHEET 2	OF 2		HOLE	PH-10	E

SM 282 PSN REG	ION 5		. В	ORNI	JM _	3	GI	DEPARTI EOTECH	MENT (NICAL	OF TR ENGII					LINE	DH-E3	ne		
PIN PRO	JECT K	ENSIN					ARTE	UN RIAL HI	OFF GHW/	FICI. AY, S	AL LO)G II	======================================	SURF	. ELEV	105+6 105 ft 654	LEFT .36	NOTE	
CASII	UAL COO NG O. I PLER O. I	D. 27	A I E S 7/8 ir ir	n	DATE	START 2 3/8		E) 430,2 -NOV-19 WT OF WT OF	965 HAMM	IER-C		I <u>NAD2</u> FINISH _ 300 300	27 09-NO' Ib Ib	V-1965 HAMN	IER FAL	VATER .L-CASIN .L-SAMPI	G	18 18	in in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	E	BLOV	VS ON LER i	MOIS	БТ. Т.	0.				CRIPTIO							
CA		AS	0 6	//	/	18 (%)	(0.00)	Tono	a a il									
	0.0	J1	7					<u>(0.00)</u> (0.40)			n SILT ,	Trace To	Some C	lay				(M-I	LPL)
14			·	9	11														
16																			
19	 5.0																		
26 37		J2	5	7			-†-	(5.00)	Red	Brow	n SILT ,	Trace To	Some C	lay, Tra	ace Sai	nd		(M-I	LPL)
55					12														
75																			
96																			
103	10.0	J3	10			+-		(10.00)	Red	Brow	n SILT ,	Some Cla	ay And F	racture	d Stone	e – – –			-PL)
58				12	14														
49 58																			
76																			
97	15.0	J4	4																
101		04	·	5	7														
139																			
136 149																			
149	20.0																		
123		J5	4	6	5														
133	<u> </u>				5														
177																			
167																			
and acce pres the of th	subsurfates stimate ess to the sented in sinformation materials be indicated.	purpos same good fa on repre al at the	ses. I inforn aith. I esents e site.	t is m nation By the s only Inte	ade a n avail e natu v a sm rpolati	vailable s lable to the re of the c all fractio ion betwe	o that i e State explora n of the en data	users ma e. It is ation prod e total vo	ay have cess, lume	e S R D	OIL & REGERMANNE	G OPERA OCK DES TECHNIC ER PROVED T ENGINE	CRIPTIO CAL L	N <u>R.</u>	Swartz Smith	AL LOC			
cor	NTRACT		(CONT	rac	TOR				s	HEET 1	OF 2			НО	LE D			

PSN REGI COU PIN PRO ACTI	ION NTY JECT UAL CO	D . 2	NGTC IATES	ON E. 6 _(I	N) 1,(DAT I. [ESSV 059,9 EST	NAY A 969.980 ART _	GEOTI SUBS RTERIA) (E) 4: 03-NO in W	ARTMENT OF ECHNICAL EI SURFACE E UNOFFI L HIGHWAY 30,250.430 V-1965 T OF HAMME	NGINEERIN EXPLORAT CIAL L /, SECTIO DATU DATE R-CASING	RTATION G BUREAU ION LOG OG N II M <u>NAD2</u> E FINISH _ 300	27 09-NOV- Ib	LINE STA OFFSET SURF. ELEV DEPTH TO W 1965 HAMMER FAL	/ATER SE	EE NOTE
	PLER O.		ir E		1. [VS O				T OF HAMME	N-SAMPLER	300	lb	HAMMER FAL	L-SAMPLER	18 in
CASING BLOWS/ft	DEPTH # BELOW SURFACE	SAMPLE NO.	S	AMP	LER	in	MOIST CONT. (%)			DE	SCRIPTIO	N OF SOIL	AND ROCK		
2 H			6	6 12	/	18 24	` ′								
128	25.0	J6	3	5				(25)	.00) Red B	rown SILT	, Some Cla	ay And Fra	ctured Stone	•	(W-PL)
105					7										
124															
117															
101	30.0														
112		J7	4	6				1							
109	_				6										
112															
110	 35.0														
140	35.0	J8	6	7				(35	.00) Red B	rown SILT	, Some Cla	ay, Trace S	Sand And Fra	ctured Ston	e - (M-PL)
192				,	8										
168															
105		 R1						(38	.16) Run#	1 Drilled fro	m 38'2" T	o 40'2" R	OCK , Seame	ed And	
		-							Broke REC.	า 23" 95.8	% 9				
	40.0	R2						$-\frac{1}{(40)}$.16) Run#	2 Drilled from	m 40'2" T	o 41'8" R	OCK , Seame	ed And	
		-						,	Broke				,		
		R3						(41	.66) Run # Broke		om 41'8" T	o 43'2" R	OCK , Seame	ed And	
									REC.	17" 94.4	% 7 DLE AT 43.	16 ft			
			Dug b	oy ha	nd fro	om 0	to 1 fo	ot.	20	o o					
									DEPTH ft		ARTE		FILLED W		
				ATE		TIN		HOLE	CASING	WATER	HEAD H ABOVE G		WATER / END OF D		
			09-1	Nov-6	35	15:0	00	43.16	37.16	8.36					
and acce	estimate	e purpos e same	ses. I inforn	t is m natioi	ade a n ava	availa ilable	ble so to the	State. It	s may have	SOIL & F	OTECHNIC	CRIPTION CAL	J. Swartz R. Smith	1100	
the	informati	on repr	esent	s only	a sn	nall fr	action i	of the tot	al volume mples may		PPROVED			L LUG	****
	be indica								•		NT ENGINE URE NAMI			B.I.N	
COI	NTRACT		(CONT	ΓRAC	TOR	l			SHEET	2 OF 2		HOI	LE DH-E	3

PSN			. В	ORNI	UM	16_	DEPARTMEN	TE OF NEW YORK NT OF TRANSPOR' AL ENGINEERING		<u>=</u>		DH-W16	
REGI		RIE						CE EXPLORATION			LINE	Baseline 103+63	
PIN	···· <u> </u>	-1111					UNO	FFICIAL LC	G	=	_	62 ft LEFT	
								IWAY, SECTION	II	· 	SURF. ELEV	648.24	
ACT	UAL CO	ORDIN	ATES			9,769.740						ATER SE	E NOTE
CASII	NG O.	D 2.	7/8 ir			START _ 2 3/8	07-NOV-1955 in WT OF HA	DATE F MMER-CASING	300	10-NOV Ib	<u>-1955</u> HAMMER FAL	I -CVSING	18 in
	PLER O.		ıı o,, 1i		I. D.			MMER-SAMPLER	300		HAMMER FAL		18 in
+	111			21 AV	VS ON								
ING VS/f	ACIOH FOLK	곱.			LER in	MOIST		DEO	ODIDTION	05.001	AND DOOK		
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	6 /	12 / 18	CONT. 8 (%)		DES	CRIPTION	OF SOIL	AND ROCK		
В	0-8	0,	6		I / I .	24							
	0.0						(0.00) G	iray Brown SILT ,	Some Cla	ıy, Trace	Sand And Fi	ne Gravel	(M-PL)
6		-											
6													
		1											
6													
22													
	F 0												
31	5.0	J215	4				-						
36				7									
51		1											
85													
445													
115		1											
116	10.0												
53		J216	8	16									
55		-		.0									
70													
61													
01		1											
70													
83	15.0						(14.00) G	iray SILT , Trace	Sariu, Ciay	y Aria Gr	avei		(M-LPL)
- 00		J217	6										
54				8									
52													
60	<u> </u>	-											
97						- [
	20.0												
130	20.0	J218	5		$\vdash \vdash$		-						
84	L _			9		- [
00						- [
93		1											
87	L _					- [
104													
104		1											
135	25.0				$\sqcup \bot$		<u> </u>						
The	subsurfa	ce info	rmatic	on sh	own he	re was obt	L ained for design	DRILL RIG	OPERAT	OR			
and	estimate	purpos	ses. I	t is m	nade av	ailable so	that users may h				R. Zemla		
acce	ess to the	same	inforn	natioi Rv th	n availa e natur	ble to the	State. It is ploration process	REG GEO	TECHNIC#	AL.			
the	informatio	n repre	esent	only	y a sma	II fraction o	of the total volum	ne DATE ADE		U	NOFFICIA	L LUG	<u> </u>
of th	ne materia	al at the	e site.	Inte	rpolatio		data samples n			 ER			
HOU	ue iliulcai	uve OI [ne ac	iual l	nateria	encounte	ı c u.	STRUCTU				B.I.N	
001	NTD A OT					OB		CULTET 4	OF 2		ПО	LE DH-W	116
COL	NTRACT		(JUN I	TRACT	UR		SHEET 1	ᅜ		пυ	∟∟ ∪⊓-४४	10

PSN REGI COU PIN PRO ACTI	ION 5 NTY E JECT 1 UAL CO	ERIE (ENSII ORDIN D. 2	NGTC ATES	ON E. 6 _(I	N) 1,(DAT I. [ESSV 059,7 E ST	 VAY AI '69.740 ART ! 3/8	GEOTI SUBS RTERIA (E) 43 07-NO in W	ARTMENT O ECHNICAL E SURFACE I JNOFF L HIGHWA 30,293.300 V-1955 T OF HAMME	R-CASING	RTATION G BUREAU ION LOG OG N II M <u>NAD2</u> E FINISH _ 300	10-NOV Ib	LINE STA OFFSET SURF. ELEV DEPTH TO V '-1955 HAMMER FAL	VATER SE	E NOTE
	PLER O.		ii 		1. [VS O		3/8	in W	I OF HAMME	R-SAMPLEF	300	lb	HAMMER FAL	L-SAMPLER	18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	LER 12		MOIST. CONT. (%)			DE	SCRIPTIO	N OF SOIL	_ AND ROCK		
120	25.0	J219		4				(25.	.00) Gray	SILT , Trac	e Sand, Cl	ay And Gr	avel		(M-LPL)
138															
152															
133		1													
148	30.0	J220	3												
117				4											
130		-													
136															
132															
115	35.0	J221	3				<u> </u>								
150		0221		4											
118															
108															
108									·=====						
120	40.0							(39.	.00) Gray	SILT , Som	e Sand An	d Fine Gra	avel, Trace C	lay	(M-LPL)
110		J222	4	4											
127															
131															
	:		Flint-l	Limes	stone	rock	, seam	ed and v		OM OF HO					
			D	ATE		TIM			DEPTH ft	1		SIAN HEIGHT	FILLED W		
								HOLE	CASING	WATER		GROUND	END OF D	I	
			10-1	Nov-	55	15:0	טט	42.92	42.75	10.75					
Tho	oubourfa	oo info	rmatic	on ch	own h	acro i	was obt	ained for	docian	DDII I B	IC ODEDA	TOP			
and acce pres the of th	ess to the sented in informatio	purpos same good fa on repro al at the	ses. I inforn aith. I esent: e site.	t is m nation By the s only Inte	nade a n ava e natu / a sn rpolat	availa ilable ire of nall fr tion b	to the so to the so the expension of the	that user State. It oloration of the tota data sal	s may have is	SOIL & F REG GE ENGIN DATE AI RESIDEI	OTECHNIC	CRIPTION CAL U	N R. Zemla	L LOG B.I.N.	
COI	NTRACT		(CONT	ΓRAC	TOR				SHEET	2 OF 2		НО	LE DH-W	/16

SM 282 PSN REGI		444 5	_ B(ORN	UM _	77	_	DEPARTMENT OF GEOTECHNICAL EN	GINEERING	BUREAU		HOL	.E <u>DH-5B</u> IE Baselin	e	
COU	NTY _	ERIE					_	SUBSURFACE EX UNOFFICE			░	STA 101+35			
PIN PRO.	IFCT -	KENSI	NGTO	ON F	XPRF	SSV	 VAY S	UNOFFR ECTION I	JIAL LU	'G		OFFSE SURF. EL			
	_	ORDIN							DATUM	NAD2	7		O WATER		E
CACII		. D 0	7/0 :		DATE			16-SEP-1955	DATE F		21-SEF		FALL CACING	. 10	
CASI	NG O		7/8 i ı		I. D			in WT OF HAMMEF in WT OF HAMMEF		300 300	lb lb		FALL-CASING FALL-SAMPLI		in in
_ #	- Ш			BI OV	vs or										
WS/	¥95 E	9 ₹ .			LER i		MOIST.		DES	CRIPTION	I OF SOI	IL AND RO	CK		
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 6	6	/	18 24	(%)								
9	0.0 							(0.00) Mottled Fine G		wn Gray S	SILT , So	ome Sand,	Trace Clay	And (M	/I-LPL)
16		_													
32															
45															
58	5.0	100					L								
67		J32	16	20					=						
113								(6.00) Gray S	ILI, Some	Sand, Tra	ace Clay			(N	M-LPL)
127															
148															
152	10.0														
108		J33	11	13											
110															
123															
120															
98	15.0						L	(14.00) Red Gi	ay SILT , So	ome Clay	, Trace S	Sand And F	ine Gravel	(1)	M-PL)
67		J34	5	6											
58															
70															
76															
80	20.0	100	_												
81		J35	5	6											
79															
68															
92															
100	25.0														
								ained for design	DRILL RIG						
acce	ess to th	ie same	inforr	natio	n avai	lable	to the	that users may have State. It is	SOIL & ROCK DESCRIPTION R. Zemla REG GEOTECHNICAL						
								oloration process, of the total volume	ENGINE	ER	l	JNOFFIC	HAL LOG		
of th	e matei	rial at th	e site.	Inte	rpolat	ion b	etween	data samples may	DATE APF	_	FR				
not l	be indic	ative of	the ac	ctual i	materi	al en	counte	red.	STRUCTU	-			B.I.N.	10226	20
		_							Northamp	ton over l		ton Expres			
001	NTRAC [*]	T			TRAC	TOD			SHEET 1	OE 2			., \ı ∟ 1\L	1)	

PSN REG COU	ION _5		_ B(ORN	UM _	77	_ _ _	DEPARTM GEOTECHN SUBSURF	ENT OF T ICAL ENC ACE EX		BUREAU ON LOG		LINE STA	DH-5B Baseline 101+35	- - -			
PIN PRO	JECT K	ENSI	NGTO	ON E	XPRE	ESSI	 NAY, S	SECTION I	<i>7</i> 1 1 10	IAL LU	,G	<u> </u>	SURF. ELEV	239 ft LEF 658.69	-			
ACT	UAL CO	ORDIN	ATES	S _(I	N) 1,(D AT I			00 (E) 430,116.180 DATUM <u>NAD27</u> 16-SEP-1955 DATE FINISH 21-SE					DEPTH TO WATER <u>SEE NOTE</u> EP-1955					
CASI	NG O. I PLER O. I		7/8 ii		I. C) . 2	2 3/8	in WT OF H	HAMMER-		300	lb	HAMMER FAL		18 i 18 i			
CASING BLOWS/ft									DESCRIPTION OF SOIL AND ROCK									
79	25.0	J36	8	7	18	<u>/ 24</u>		(25.00)	Red Gra	y SILT , So	ome Clay,	Trace S	and And Fine	e Gravel	(M-PL)			
81																		
80																		
78																		
95	30.0																	
90		J37	3	3														
85																		
100																		
106																		
111	35.0																	
89		J38	3	4			Γ											
91																		
100																		
109																		
110	40.0						L											
142	L _	J39	1	2														
138	<u> </u>																	
133																		
143	L _																	
153	45.0						L	<u></u>										
84	<u> </u>	R1							Broken			50'0" R	OCK , Seam	ed And				
	<u> </u>								HEC. 5	99.9%								
	L _																	
	L _																	
	50.0																	
and	estimate	purpos	ses. I	lt is m	nade a	availa	able so	tained for desig that users may	gn	M OF HOL DRILL RIG SOIL & RO	OPERAT	OR	R. Zemla					
pres the	sented in informatio	good fa on repr	aith. I esent	By the s only	e natu y a sn	ıre o nall fi	f the exp raction (State. It is ploration proce of the total volu	ess, ume	REG GEO	TECHNICA ER	AL	NOFFICIA	L LOG				
of th		al at the	e site.	Inte	rpolai	tion b	etweer	n data samples	may	DATE APPRESIDENT	ENGINE							
										STRUCTU Northamp			on Expresswa	B.I.N.	1022620			
COL	NTRACT			CON		TOP	,		SHEET 2				LE DH-5	D				

SM 282	E 12/02						STATE OF I	NEW YORK			_				
PSN	114	144	BO	RNUM $_{-7}$	<u>'7</u>		ARTMENT OF 1			_	HOLE	DH-5B			
REG	ION 5	5					CHNICAL ENG				LINE	Baselir	ne		
COU	NTY E	ERIE				******************	URFACE EX			=	= STA	101+35	5		
PIN						L	JNOFFIC	IAL LO	G	·	OFFSET	239 ft	LEFT		_
PRO	JECT	KENSI	NGTO	N EXPRES	SWAY, S	ECTION					SURF. ELEV	. 658.	69		
ACT	UAL CO	ORDIN	ATES	(N) 1,059	,541.600	(E) 43	0,116.180	DATUM	NAD2	27	DEPTH TO V	VATER	SEE	NOTE	
				DATE S	START _	16-SEF	P-1955	DATE F	INISH _	21-SEF	P-1955				
CASII	NG O.	D. 2	7/8 in	I. D.	2 3/8	in WT	OF HAMMER-	CASING	300	lb	HAMMER FAL	L-CASING	3	18	in
SAME	PLER O.	D . 2	in	I. D.	1 3/8	in WT	OF HAMMER-	SAMPLER	300	lb	HAMMER FAL	L-SAMPL	.ER	18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		LOWS ON MPLER in	MOIST. CONT. (%)			DESC	CRIPTIO	N OF SOI	L AND ROCK				

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT		
	IIIVIL	HOLE	CASING	WATER		END OF DAY		
21-Sep-55	15:00	50.00	45.08	15.00				

DRILL RIG OPERATOR

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL

ENGINEER UNOFFICIAL LOG

DATE APPROVED

RESIDENT ENGINEER

STRUCTURE NAME B.I.N. 1022620

Northampton over Kensington Expressway

SHEET 3 OF 3 HOLE DH-5B

CONTRACT ____ CONTRACTOR

PSN REGIO	ON _	444 5 ERIE	_ B	ORN	UM _	79	- -	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING (PLORATIC	BUREAU ON LOG		HOL LIN S1		Э	
PIN PRO I			NGTA	או בי	YDDE	2014		UNOFFIC ECTION I	JAL LO	G		OFFSE SURF. EL			
	_	ORDIN							DATUM	NAD2	7		.EV. <u>657.3</u> O WATER _		TE
O A CIN	10 0	D 0	7/0 :		DATE			09-SEP-1955	DATE F			P-1955	FALL GACING	40	
CASIN SAMP	LER O		7/8 i : i :	n n	I. D. I. D.			in WT OF HAMMER in WT OF HAMMER		300 300	lb lb		FALL-CASING FALL-SAMPLE		ir ir
=	س ب			RI OV	VS ON										
CASING BLOWS/ft	FAC	SAMPLE NO.	1	_	PLER in		MOIST. CONT.								
BLO	DEPTH ft BELOW SURFACE	SAI	0	6	/	8	(%)								
	0.0		6	12	18/	24		(0.00) Brown	SILT , Some	Sand,Tr	ace Fine	e Gravel		(M-NPL)
40								, ,	•	•				`	,
20															
90															
73		-													
63	5.0	J9	21												
71				23											
69															
77		-						(8.00) Red Gr	ay SILT , So	ome Clay,	Trace	Fine Grave	And Sand		(M-PL)
99		_													
84	10.0	140													
111		J10	8	12											
70		1													
62		-													
54								(14.00) Red Gr	~_ CILT_ C			no Graval	Troop Clay		M-LPL)
67	15.0							(14.00) Ned Ci	ay OILT, O	onie Sanc	Andii	ne diavei,	Trace Olay	'	(IVI-LI L)
75		J11	5	5											
		-													
76															
90		\dashv													
78		_													
81	20.0			L											
71		J12	4	4											
		1		•											
68		\dashv							ay Fine SAI	ND , Some	e Silt				W-NPL)
51		4						, ,	•					`	,
50															
53	25.0														
		1	İ	<u> </u>											
								ained for design that users may have	DRILL RIG			N R. Zen	 nla		
acce	ss to th	e same	inforr	natioi	n availa	able	to the	State. It is older of the state	REG GEO	TECHNIC	AL				
the in	nformat	ion repr	esent	s only	a sma	all fra	action o	of the total volume	ENGINEE DATE APF			JINUFFIC	HAL LOG		
		ative of						data samples may red.	RESIDENT	ENGINE				100-	000
									STRUCTU Northamp			ton Expres	B.I.N. _{swav}	1022	620
CON	ITRAC1	-		00NI	TRACT	·^D			SHEET 1		vor ioning	L	HOLE DE	J 7D	

PSN REGI COUI	ION	1444 5 ER		. B0	ORN	UM _	79	_ _ _	GEOTECHNICAL EN SUBSURFACE E	DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG UNOFFICIAL LOG				DH-7B Baseline 100+10 125 ft LEI	=T
PRO ACTU	UAL C	O. D.	RDIN 2		<u> </u> n		59,4 E ST D. 2	16.840 ART _ 3/8	ECTION I	DATUM DATE F	NAD2		OFFSET SURF. ELEV DEPTH TO V P-1955 HAMMER FAL HAMMER FAL	. <u>657.36</u> VATER SI .L-CASING	
CASING BLOWS/ft	DEPTH ft BELOW		SAMPLE NO.	S	BLOV	VS OI	N	MOIST. CONT. (%)	WIGHTAWWE				OIL AND ROCK		10 1
86	25.0 —		J13	6 5	∕ 12 7	/ 18	<u> 24</u>		(25.00) Red G	ray Fine SAI	ND , Some	e Silt			(W-NPL
80 75	<u> </u>														
84615851	30.0		J14	7	9										
50 47 62	 35.0	_	J15	1	2				(35.00) Gray S	SILT , Some	Clay, San	d And F	ine Gravel		(W -PL
68 60 58															
44 102	40.0	-	J16	2	3						-74144 F				
	 45.(R1						(41.92) Run # REC.	Drilled from 54" 96.6%	141'11"	O 46°/"	nook , Sear	пеа	
						ļ			BOTT	OM OF HOL	E AT 46.5	8 ft			
and acce	estima ess to t	ate po	urpos ame	ses. I inform	t is m natioi	nade a n avai	vaila lable	ble so t	ained for design that users may have State. It is ploration process,	DRILL RIG SOIL & RC REG GEO' ENGINEE	OCK DESC TECHNIC	RIPTIC	DN <u>R. Zemla</u> UNOFFICIA	l l oc	
of th	ne mate	erial a icativ	at the	e site. he ac	Inte ctual i	rpolat	ion b al en	etween counte	of the total volume data samples may red.	DATE APPRESIDENT	PROVED ENGINE RE NAME	ER _	ıton Expresswa	B.I.N	1022620

SM 282	E 12/02						STATE OF I	NEW YORK			_			
PSN	11	444	BOR	NUM7	79		RTMENT OF				HOLE _D	H-7B		
REG	ION	5					CHNICAL EN				LINE B	aseline		
COU	NTY ⁻	ERIE				*****************	URFACE EX			. =	STA 1	00+10		
PIN	_					· · · · · · ·	JNOFFIC	IAL LO	G	·		25 ft L	EFT	
PRO	JECT _	KENSI	NGTON	EXPRES	SWAY, S	ECTION	1				SURF. ELEV.	657.36)	
ACT	UAL CO	ORDIN	ATES _	(N) 1,059	9,416.840	(E) 43	0,230.080	_ DATUM	NAD2	27	DEPTH TO WA	TER _	SEE NOTE	
				DATES	START _	09-SEF	P-1955	DATE F	INISH _	13-SE	P-1955			
CASII	NG C	. D . 2	7/8 in	I. D.	2 3/8	in WT	OF HAMMER	-CASING	300	lb	HAMMER FALL-C	ASING	18	in
SAME	PLER C	. D . 2	in	I. D.	1 3/8	in WT	OF HAMMER	-SAMPLER	300	lb	HAMMER FALL-S	AMPLE	R 18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		OWS ON MPLER in	MOIST. CONT. (%)			DESC	CRIPTIO	N OF SO	OIL AND ROCK			

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT		
	I IIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY		
13-Sep-55	15:00	46.58	41.92	13.08				

DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL

ENGINEER UNOFFICIAL LOG

DATE APPROVED

RESIDENT ENGINEER

STRUCTURE NAME B.I.N. 1022620

Northampton over Kensington Expressway

SHEET 3 OF 3 HOLE DH-7B

CONTRACT ____ CONTRACTOR

PSN			ВС	RNU	JM _	73	_	STATE OF DEPARTMENT OF GEOTECHNICAL EN			<u>=</u>		PH-1A	
REG		RIE					_	SUBSURFACE E				LINE STA	Baseline 100+05	
PIN	·	.1 1111					_	UNOFFI	CIAL LC)G	=	OFFSET	216 ft LEF	 T
PRO	JECT K	ENSIN	IGTO	NΕ	KPRE	SSW	AY, S	ECTION I				SURF. ELEV		
ACT	UAL CO	ORDIN	ATES	_					DATUM				NATER SE	E NOTE
CASII	NG O.	D . 27	7/8 in		DATE I. D.	: SIA . 2		<u>16-SEP-1955</u> in WT OF HAMMER	DATE I R-CASING	-INISH 300	20-SEF	<u>2-1955 </u>	LL-CASING	18 in
	PLER O.		in		I. D.			in WT OF HAMMER			lb	HAMMER FAI		in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	SA	AMPI	/S ON LER in	n	MOIST. CONT. (%)		DES	CRIPTION	I OF SOI	IL AND ROCK	(
	0.0	J48		12	10	24		(0.00) Black	SILT , Some	Sand An	d Organ	ic		(M-NPL)
		J49						(1.00) <u>Yellow</u>	Brown SAN	D , Trace	Silt And	Gravel		(M-NPL)
		J50						(2.00) Gray B	rown SAND	, Trace S	ilt And C	Gravel		(M-NPL)
		J51						(3.00) Red Bi	own SILT ,	Some Cla	y, Trace	Sand		(M-PL)
	 5.0													
83								(5.00) No Sai Hole P	nples Taker rogressed A		d Probe	Hole		
78														
81		-												
78														
86	10.0													
186														
138														
178														
163	15.0													
170														
147														
168	<u> </u>													
199	<u> </u>													
213	20.0													
153														
145	<u> </u>													
143	<u> </u>													
132	 25.0													
The and according the of the	estimate ess to the sented in s information	purpos same good fa on repre al at the	ees. It inform aith. B esents e site.	is mation by the only Inter	ade a avail natui a sm polati	vailat lable re of all fra on be	ole so to to the S the exp action of etween	ained for design hat users may have State. It is oloration process, of the total volume data samples may red.	DRILL RIC SOIL & RC REG GEO ENGINEI DATE APP RESIDENT STRUCTU	OCK DESC TECHNIC ER PROVED FENGINE	CRIPTIO AL L ER	N <u>R. Zemla</u> JNOFFICI <i>A</i>	AL LOG	
001	NTD A OT		^	-CN1-	.D v O.	TOP					•	шл	B.I.N DLE PH-1	Δ
COI	NTRACT		0		RAC	IUK			SHEET 1	UF 3		ПС	'∟∟	$\overline{}$

PSN PSN REGIO	11	444 5	BOF	RNUM _	73	_	DEPARTMENT OF GEOTECHNICAL EN	GINEERING	BUREAU			PH-1A Baseline	
COUN	ITY _	ERIE					SUBSURFACE EX			.		100+05	
PIN	_					_	UNOFFIC	HAL LC	(G	· -		216 ft LEF	-T
	_						ECTION I				SURF. ELEV		
ACIU	AL CO	ORDIN	IATES					_ DATUM			DEPTH TO V P-1955	VATER SE	ENOIE
CASIN	e o	. D . 2	7/8 in	DAT	C 317). 2		<u>16-SEP-1955</u> n WT OF HAMMER	DATE F	300 _	<u> 20-5E </u> 	HAMMER FAL	I -CASING	18 i
	LER O		in	I. C			n WT OF HAMMER		000	lb	HAMMER FAL		i
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		OWS OI MPLER		MOIST.							
<u>7</u> 0	FILL	불일				CONT.		DES	CRIPTION	OF SO	IL AND ROCK		
고립	Seg	3	0 6	/ /	18	(%)							
-	25.0		6	12 18	24		(25.00) No San	nples Taker	<u> </u>				
90	20.0							ogressed A		d Probe	Hole		
								· ·					
83		_											
97													
91													
109													
_	30.0												
89	30.0	-											
91													
38		4											
69													
70													
,,	35.0												
84	33.0												
92													
87		_											
97													
99		_											
119	40.0												
98		_											
107													
07													
111													
40													
46		-											
	45.0												
H		R1					(45.84) Run #1	Drilled fron	1 45'10" ⁻	To 50'10	" ROCK , Sea	amed And	
							Broken				•		
							REC.	60 100%					
		_											
		1											
L	50.0												
The	oubs:	food int	rms#=	obc:: '	L	NOC 5 5 '	nined for design	חסוו סים	ODEDA	TOP			
							ained for design hat users may have	DRILL RIG			N R. Zemla		
acce	ss to th	e same	informa	tion ava	ilable	to the S	State. It is	REG GEO		AL			
							loration process,	ENGINE			JNOFFICIA	L LOG	
							f the total volume data samples may	DATE APP					
			the actua					RESIDENT					
								STRUCTU	KE NAME	=		B.I.N	
CON	TRAC	-	00	NTRAC	T00			SHEET 2	OF 2		П	LE PH-1	Λ

CM 202	E 12/02				OTATE OF MEN VODIC
PSN	114	144	BORNUM	73	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU LINE Baseline SUBSURFACE EXPLORATION LOG
REG			DOMINOW		GEOTECHNICAL ENGINEERING BUREAU LINE Baseline
COU	_	ERIE			SUBSURFACE EXPLORATION LOG STA 100+05
PIN	···· _ <u>·</u>	-1111			UNOFFICIAL LOG OFFSET 216 ft LEFT
	JECT H	(ENISIN	IGTON EXPR	ESSWAY S	
_	JAL CO				
ACT	JAL CO	OHDIN	- —	059,412.440	(=/,,
				E START _	<u>16-SEP-1955</u> DATE FINISH <u>20-SEP-1955</u>
CASII	NG O.	D . 27	7/8 in I.	D. 2 3/8	in WT OF HAMMER-CASING 300 Ib HAMMER FALL-CASING 18 i
SAME	PLER O.	D.	in I.	D.	in WT OF HAMMER-SAMPLER Ib HAMMER FALL-SAMPLER i
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS C SAMPLER 0 6 12 18	in MOIST CONT. (%)	
	50.0				

Augered ahead of casing by hand from 0 to 5 feet. Samples 48 through 51 obtained from auger.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
20-Sep-55	15:00	50.84	43.16	14.17		

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL

ENGINEER UNOFFICIAL LOG

DATE APPROVED

RESIDENT ENGINEER

STRUCTURE NAME

B.I.N.

CONTRACT ____ CONTRACTOR

SHEET 3 OF 3 HOLE PH-1A

PSN REGI	ON _	1444 5	B	ORN	UM _	75	_	DEPARTMENT OF GEOTECHNICAL EN	GINEERING	BUREAU			LINE		!	
COUI	NTY _	ERIE					_	SUBSURFACE EX UNOFFICE			₹	<u> </u>	STA	100+06	FFT	
PIN PRO.	IFCT	KENS	INGT	ON F	XPRF	SSV	_ VAY S	ECTION I	JIAL LU	G				275 ft L		
	_							(E) 430,080.180	DATUM	NAD2	7			WATER _		TE
CACIA			0.7/0		DATE			20-SEP-1955	DATE F			P-1955		LLCACING	10	
CASIN SAMP	NG C		2 7/8 2	in in	I. D I. D			in WT OF HAMMEF in WT OF HAMMEF		300 300	lb lb			LL-CASING LL-SAMPLE	18 R 18	in in
_	11				NS ON											
WS/1	# NO E	[]]	; ;		LER i		MOIST. CONT.		DEG	CRIPTION		II AND	DOCK	•		
CASING BLOWS/ft	DEPTH ft BELOW SLIBFACE	SAMPLE		6	/	18	(%)		DES		1 OF 30	IL AND	HOUR	`		
	0.0) 12	18/	24		(0.00) Yellow	Brown SILT	, Some S	Sand, Tr	ace Cla	ay		1)	M-LPL)
13																
26		_														
43																
58																
62	5.0						L									
56		J58	3 25	38												
78																
								(7.00) Red Br	own SILT ,	Some Cla	y, Trace	Sand			(M-PL)
76																
78																
83	10.0	J59) 12	-												
66		_		21												
87																
110																
168																
163	15.0															
	10.0	J60) 6	8				(15.00) Red Gi	ay SILT , S	ome Clay	And Sa	nd, Tra	ce Gra	avel	(M-PL)
70																
53																
51		\dashv														
64		4														
77	20.0															
68		J61	3	3												
55	-															
50																
49		\dashv														
55	25.0															
								ained for design that users may have	DRILL RIG			M D	70~!-			
acce	ess to th	he sam	e infor	matio	n avail	lable	to the	State. It is	SOIL & RO		AL				*********	
the i	informa	tion rep	resen	ts only	y a sm	all fra	action o	oloration process, of the total volume	ENGINEE DATE APP		l	JNOF	FICI <i>I</i>	AL LOG		
	e mate be indic							data samples may	RESIDENT		ER					
HOL K	Je IIIUIC	auve U	ı uı c d	otuai i	naicili	ai C II	Journe	iou.	STRUCTU	RE NAME				B.I.N.	10226	20
									Northamp		Kensing	ton Exp	ressw	ay DLE DH		

PSN REG COU	ION	1444 5 ERIE	_ B	ORN	UM _	75		DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E	igineering XPLORATIO	BUREAU ON LOG		LINE STA	DH-3B Baseline 100+06	
								UNOFFICE SECTION I				SURF. ELEV		
ACI	UAL C	OORDII	NAIE	S _(N) 1,0 Dati			(E) 430,080.180 20-SEP-1955	DATUM Date F			<u>DEPTH TO V P-1955 </u>	WATER SI	EE NOTE
CASII SAMI	NG PLER		7/8 i	n n	I. D			in WT OF HAMMER in WT OF HAMMER		300 300	lb lb	HAMMER FAI HAMMER FAI		18 18
CASING BLOWS/ft	DEPTH ft BELOW	SAMPLE NO.	9		NS OF		MOIST. CONT. (%)		DES	CRIPTION	OF SO	IL AND ROCK	(
<u> </u>	25.0		3	/	I / I		, ,	(25.00) Red G	ov CILT C	ama Clay	And Co	nd, Trace Gra	wol	(M-PL)
93		362		11				(25.00) Red G	ay SILT, S	one Glay	And Sa	nu, Trace Gra	ivei	(IVI-FL)
140														
200														
231								L						
241	30.0	,						(29.00) Red G	ay SILT, S	ome Sand	d, Fine C	Gravel And Cla	ay	— — (M-PL)
92		J63	2	3										
97														
111														
21														
151	35.0	J64	1											
56				2										
78														
80	_													
81														
62	40.0						L	-						
70		J65	1	1										
93														
99														
36		R1					<u> </u>	(43.17) Run #1		1 43'2" To	0 48'2"	ROCK , Seam	ned And	
	45.0								60" 100%					
	_													
	_							BOTTO	OM OF HOL	E AT 48	17 ft			
								=			-			
								ained for design	DRILL RIG					
acc	ess to t	he same	infor	matio	n avai	lable	to the	that users may have State. It is	SOIL & RO		AL	N R. Zemla		
the	informa	ation rep	resen	ts onl	y a sm	all fr	action o	oloration process, of the total volume	ENGINEE DATE APP	ER	ι	JNOFFICIA	AL LOG	
		erial at th cative of						n data samples may red.	RESIDENT	ENGINE				1000000
									Northamp			ton Expressw	B.I.N. ay	1022620
COL	NTRAC	т		CON	TRAC	TOD			SHEET 2			НС	DLE DH-3	2R

SM 282	E 12/02						STATE OF	NEW YORK			<u> </u>			
PSN	11	444	BOR	NUM7	<u>75</u>		ARTMENT OF				HOLE _	DH-3B		
REG	ION	5					ECHNICAL EN				LINE	Baselin	e	
COU	NTY ⁻	ERIE					SURFACE EX			=	STA T	100+06	5	
PIN							UNOFFIC	CIAL LO	G	· -	OFFSET	275 ft	LEFT	
PRO	JECT _	KENSII	NGTON	EXPRES	SWAY, S	SECTIO	NI				SURF. ELEV.	658.0)9	
ACT	UAL C	OORDIN	ATES _	(N) 1,059	9,412.830	(E) 4	30,080.180	_ DATUM	NAD2	27	DEPTH TO W	ATER	SEE NOT	ſΕ
				DATES	START _	20-SE	P-1955	DATE F	INISH _	22-SE	P-1955			
CASII	NG C	D. 2	7/8 in	I. D.	2 3/8	in W	T OF HAMMER	-CASING	300	lb	HAMMER FALL	-CASING	18	in
SAME	PLER C	. D . 2	in	I. D.	1 3/8	in W	T OF HAMMER	-SAMPLER	300	lb	HAMMER FALL	-SAMPL	ER 18	in
CASING BLOWS/ft	DEPTH ft BELOW SUBFACE	SAMPLE NO.		OWS ON MPLER in	CONT.			DESC	CRIPTIO	N OF SO	IL AND ROCK			

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
22-Sep-55	15:00	48.17	43.17	12.00		

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL

ENGINEER UNOFFICIAL LOG

DATE APPROVED

RESIDENT ENGINEER

STRUCTURE NAME B.I.N. 1022620

Northampton over Kensington Expressway

SHEET 3 OF 3 HOLE DH-3B

CONTRACT ____ CONTRACTOR

	_	ERIE					_	GEOTECHNICAL EN SUBSURFACE EX	KPLORATIO	ON LOG		LINE STA	99+34		
ACT	IECT	KENISI	NGTO	JN E.	YDDE	:001	 NAV S	UNOFFIC ECTION I	JIAL LU)G		OFFSET SURF. ELEV	307 ft LE	FT	
CASI	_							(E) 430,047.830	DATUM	NAD2	7	DEPTH TO V		SEE NOTE	E
CASII			7/0		DATE			13-SEP-1955	DATE F		15-SEF			40	
SAMF	NG O PLER O		7/8 ii	n n	I. D			in WT OF HAMMER in WT OF HAMMER		300 300	lb lb	HAMMER FAL		18 18	ri ri
					vs or										
WS/f	TH fi OW FACI	SAMPLE NO.			LER i		MOIST.		DES	CRIPTION	OF SOL	L AND ROCK			
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAN	0 6	6	/	18	(%)				101 301	L AND HOCK			
14	0.0							(0.00) Brown	SILT , Some	e Sand				(M-	-NPL)
50															
118															
295															
130	 5.0														
60		J24	17	20											
96															
123															
122															
115	10.0														
74	10.0	J25	6	10				(10.00) Red Gr	ay SILT, S	ome Clay,	Trace S	Sand And Fine	Gravel	(M	1-PL)
66															
63															
76 77	15.0														
	10.0	J26	3	4											
47				-											
43 37															
36															
27	 20.0														
37		J27	3	4											
33															
35	<u> </u>														
40															
45	 25.0							(24.00) Red Gr	ay SILT, S	ome Clay,	Gravel	And Sand		(M	1-PL)
		face info	rmati	on oh		ore:		ained for design	DRILL RIG	ODEDAT					
and	estimat	e purpo	ses. I	lt is m	nade a	vaila	ble so i	ained for design hat users may have State. It is	SOIL & RO	OCK DESC	RIPTIO	N R. Zemla			
pres	sented ir	n good f	aith. I	By the	e natu	re of	the exp	State. It is Dioration process, of the total volume	REG GEO	ER	AL U	JNOFFICIA	L LOG		
of th	ne matei	rial at th	e site.	Inte	rpolat	ion b	etween	data samples may	DATE APP						
		ative of							RESIDENT				B.I.N.	102262	0
	NTRAC			CONT								ton Expresswa			

PIN PRO	ION _ INTY _ JECT _		NGTO	ON EX		 SWAY, S	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E UNOFFIC ECTION I	IGINEERING XPLORATIO CIAL LC	BUREAU ON LOG OG		LINE STA OFFSET SURF. ELEV		
CASII) . D. 2	IATES 7/8 ii ii	n	N) 1,059 DATE S I. D. I. D.	2 3/8	(E) 430,047.830 13-SEP-1955 in WT OF HAMMER in WT OF HAMMER				DEPTH TO V P-1955 HAMMER FAL HAMMER FAL	L-CASING	18 18
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	6	VS ON LER in	/		DES	CRIPTION	N OF SO	IL AND ROCK		
38	25.0	J28	2	∕ 12 3	18/	24	(25.00) Red G	ray SILT , S	ome Clay	, Gravel	And Sand		(M-PL
48													
50													
58													
59	30.0												
48		J29	3	5		_							
88													
108													
30													
140	35.0												
78		J30	4	4		<u> </u>							
87													
82													
83													
80	40.0												
90		J31	4	4									
92													
97													
63		R1				 	(43.17) Run #1	Drilled fron 42" 70%	n 43'2" T	o 48'2"	ROCK , Seam	ed	
	45.0							,					
	L _												
	L _												
					. !		BOTTO	OM OF HOL	E AT 48.	17 ft			
and acce pres the of th	l estimat ess to th sented in informat he mater	e purpo ne same n good fa tion repr rial at the	ses. I inforn aith. I esent e site.	t is m matior By the s only Inte	ade ava n availal e nature v a smal rpolation	ailable so to ble to the S of the exp Il fraction o	ained for design hat users may have State. It is loration process, of the total volume data samples may red.	REG GEO ENGINES DATE APP RESIDENT	OCK DES TECHNIC ER PROVED FENGINE	CRIPTIO	N R. Zemla		
								Northamp				B.I.N	1022620

SM 282	2 E 12/02						STATE OF	NEW YORK			<u> </u>				
PSN	114	44	BOF	RNUM	74		PARTMENT OF			_		DH-2B			
REG	ION 5	,)					ECHNICAL EN					Baselir	ne		
COU	INTY E	RIE				200000000000000000000000000000000000000	SURFACE EX			=	STA	99+34			_
PIN							UNOFFIC	CIAL LO	G		OFFSET	307 ft	LEFT		_
PRO	JECT _	(ENSI	IGTON	EXPRES	SWAY, S	SECTIO	NI				SURF. ELEV	657.	76		_
ACT	UAL CO	ORDIN	ATES .	(N) 1,05	9,341.050) (E) 4	30,047.830	_ DATUM	NAD2	27	DEPTH TO V	VATER	_SEE	NOTE	
				DATE S	START _	13-SE	P-1955	DATE F	INISH _	15-SE	P-1955				
CASI	NG O.	D. 2	7/8 in	I. D.	2 3/8	in W	T OF HAMMER	-CASING	300	lb	HAMMER FAL	L-CASING	G 1	18 i	in
SAME	PLER O.	D. 2	in	I. D.	1 3/8	in W	T OF HAMMER	-SAMPLER	300	lb	HAMMER FAL	L-SAMPL	. ER 1	18 i	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	1	OWS ON MPLER in	CONT			DESC	CRIPTIO	N OF SO	IL AND ROCK				

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER		END OF DAY
15-Sep-55	15:00	48.17	43.17	12.67		

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL

UNOFFICIAL LOG ENGINEER

DATE APPROVED

RESIDENT ENGINEER

STRUCTURE NAME 1022620 B.I.N.

Northampton over Kensington Expressway

HOLE DH-2B SHEET 3 OF 3 CONTRACT CONTRACTOR

PSN PSN REG COU	ION	444 5 ERIE	_ B	ORN	UM _	76		DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	igineering XPLORATIC	BUREAU ON LOG		HOLI LINI ST/		
PIN PRO	JECT	KENS	INGT	ON F	XPRF	SSV	_ VAY S	UNOFFIC ECTION I	JIAL LU	lG	<u> </u>	OFFSE	T <u>164 ft LE</u> EV. 657.16	FT
	UAL C				N) 1,0	59,3	09.710	(E) 430,098.850	DATUM			DEPTH TO	WATER S	EE NOTE
CASII	NG (). D. 2	2 7/8 i	'n	DATE I. D			<u>08-SEP-1955</u> in WT OF HAMMER	DATE F R-CASING	INISH _ 300	12-SE lb	<u>P-1955</u> HAMMER F	ALL-CASING	18 ir
	PLER C			n	I. D			in WT OF HAMMER		300	lb		ALL-SAMPLER	18 ir
CASING BLOWS/ft	DEPTH # BELOW	SAMPLE	0	SAMP	WS ON PLER i		MOIST. CONT. (%)		DES	CRIPTION	I OF SO	IL AND ROC	CK	
	0.0) 12	10	24		(0.00) Red Br	own SILT ,	Some Sar	nd, Trac	e Clay		(M-LPL)
22	-	\dashv												
76														
92	-													
140														
132	5.0													
180		J1	33	34										
	-													
106														
115	-	\dashv												
105														
107	10.0	10	1							יבוב ביצו	D - -		~=	<u>-</u> , <u>m</u> <u>-</u> -
148		J2	9	9				(10.00) Gray B	TOWN SILI F	AIND SAIN	D, Hac	e Clay And	Gravei	(M-LPL)
122														
110														
	-													
112	45.0													
114	15.0	J3	4											
76	-			6					rown SILT ,	Some Cla	av, Trac	e Sand And	Fine Gravel	(M-PL)
74		_						(,		,			,
75														
74														
103	20.0													
110		J4	3	4]						
	<u> </u>			'										
144	-													
140	-	\dashv												
146		_												
132	25.0	\bot	1	<u> </u>			L	L						
and acce pres the	estima ess to ti sented i informa	te purpo ne samo n good tion rep	oses. e infor faith. eresen	It is m mation By the ts only	nade a n avail e natul y a sm	vaila able re of all fr	ble so to to the to the exp action o	ained for design that users may have State. It is cloration process, of the total volume	DRILL RIG SOIL & RO REG GEO ENGINEE DATE APF	OCK DESC TECHNIC ER	CRIPTIO	N R. Zem		
	ne mate be indic							data samples may red.	RESIDENT	ENGINE				1000000
									Northamp			ton Express	B.I.N. way	1022620
COL	NTRAC	т		CON	TRAC	ΓΛD			SHEET 1			Н	OLE DH-4	1R

PSN REGI	ION	1444 5	_ B	ORNI	JM	<u>76 </u>	DEPARTMENT OF GEOTECHNICAL EN	IGINEERING	BUREAU		LINE		
COU	NTY .	ERIE					SUBSURFACE E UNOFFI				STA	97+11 164 ft LE	FT
	JECT	KENSI	NGT	ON EX	KPRES	SSWAY,	SECTION I	J		<u> </u>	SURF. ELE\	/. 657.16	
ACT	UAL C	OORDI	NATES	_		9,309.71 START	0 (E) 430,098.850 08-SEP-1955	DATUM DATE F			DEPTH TO V P-1955	WATER _S	SEE NOTE
CASII SAMF	NG (7/8 i		I. D. I. D.		in WT OF HAMME	R-CASING	300 300	lb lb	HAMMER FAI	LL-CASING LL-SAMPLER	18 i 18 i
CASING BLOWS/ft	DEPTH # BELOW	SAMPLE NO.	0	6	/S ON LER in	8 (%)		DES	CRIPTION	I OF SO	IL AND ROCK	(
113	25.0		4	12	/ 18/	24	(25.00) Gray E	Brown SILT ,	Some Cla	ay, Trace	e Sand And F	ine Gravel	(M-PL)
111													
109	-												
103	<u> </u>												
111	30.0	J6	WOH	ı		+							
92	_			WOH									
00		_											
100	L .												
92	L.												
102	35.0	,											
87		J7	2	2			1						
95	<u> </u>												
100	<u> </u>												
102													
10	40.0	J8	2			+							
90	<u> </u>			2									
90	L .												
33													
	L.	R1					(43.17) Run # REC.	Drilled fron 60" 100%	1 43'2" To	o 48'2" I	ROCK , Conti	nuous Seam	ned
	45.0												
	<u> </u>												
	<u> </u>												
	<u> </u>						BOTT	OM OF HOL	E AT 48.1	17 ft			
							otained for design that users may have	DRILL RIG			N R. Zemla		
acce	ess to t	he same	infori	natior	n availa	ble to the	State. It is sploration process,	REG GEO	TECHNIC	AL			*****
the	informa	ation rep	resent	s only	a sma	ll fraction	of the total volume	ENGINEI DATE APF		Ļ	JNOFFICI <i>A</i>	al LOG	
						n betwee I encount	n data samples may ered.	RESIDENT	ENGINE			D	1000000
									ton over l		ton Expressw	B.I.N. ay	1022620
CON	NTDAC	T		CONT	RACT	ΛP		SHEET 2			HC	DLE DH-	4R

_	E 12/02						STATE OF	NEW YORK			<u>-</u>			
PSN	114	44	BOF	RNUM	7 <u>6 </u>		ARTMENT OF			_		DH-4B		
REG	ION 5	;					ECHNICAL EN					Baselin	е	
COU	NTY E	RIE					SURFACE EX			=	STA	97+11		
PIN							UNOFFIC	IAL LO	G	· -		164 ft	LEFT	
PRO	JECT _	ENSIN	IGTON	EXPRES	SWAY, S	SECTION	٧I				SURF. ELEV.	657.1	6	
ACT	UAL CO	ORDIN	ATES ,	(N) 1,059	9,309.710) (E) 4	30,098.850	_ DATUM	NAD2	27	DEPTH TO W	ATER .	SEE NOT	E
				DATE S	START _	08-SE	P-1955	DATE F	INISH _	12-SE	P-1955			
CASII	NG O.	D. 27	7/8 in	I. D.	2 3/8	in W	T OF HAMMER	-CASING	300	lb	HAMMER FALL	-CASING	i 18	in
SAME	PLER O.	D. 2	in	I. D.	1 3/8	in W	T OF HAMMER	-SAMPLER	300	lb	HAMMER FALL	-SAMPLE	ER 18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	SAN 0 6	OWS ON MPLER in	CONT			DESC	CRIPTIO	N OF SO	IL AND ROCK			

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVIE	HOLE	CASING	WATER		END OF DAY
12-Sep-55	15:00	48.17	42.17	17.25		

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DRILL RIG OPERATOR

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL

ENGINEER UNOFFICIAL LOG

DATE APPROVED

RESIDENT ENGINEER

STRUCTURE NAME

Northampton over Kensington Expressway

SHEET 3 OF 3 HOLE DH-4B

1022620

CONTRACT ____ CONTRACTOR

PSN REGI	ION _	444 5	_ B(ORN	UM _	78	_	DEPARTMENT OF GEOTECHNICAL EN	GINEERING	BUREAU			LINE			
COU	NTY _	ERIE					_	SUBSURFACE EX			=	<u> </u>	STA	99+25		
PIN PRO	JECT _	KENSII	NGTO	ON E	XPRE	SSV	 VAY, S	SECTION I	//AL_L	A	* 		. ELE\	<u>126 ft Ll</u> 1. <u>656.15</u>		
ACT	UAL CO	ORDIN	ATES	_					_ DATUM				нто	WATER _	SEE NOT	E
CASII SAMF	NG O		7/8 ii		DATE I. D I. D	. 2	2 3/8	14-SEP-1955 in WT OF HAMMER in WT OF HAMMER		300 300	15-SEI lb lb	HAMM		LL-CASING LL-SAMPLEF	18 R 18	iı iı
G 3/ft	# × E	щ			VS 01		MOIST									
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	6 12	/	18	CONT.		DES	CRIPTION	OF SO	IL AND	ROCK	(
12	0.0			12	10			(0.00) Brown	SILT , Some	e Sand					(M	-NPL)
35	_															
64																
77	F 0															
79	5.0	J17	19				<u> </u>	-								
65		-		23												
60		-														
58		_						(8.00) Red Gr	av SILT . S	ome Clav	. Trace F	ine Gr			_{(N}	 1-PL)
62		_						(6.65)	.,, .		,				(,
78	10.0	J18	5					-								
53		310		9												
63	L _															
64																
99																
103	15.0															
68		J19	3	5												
75																
95																
85	-															
87	20.0	J20	2	_				-								
91		-		2												
71		-														
73		-														
73																
76	25.0						L 	<u> </u>								
and acce	estimate	e purpo: e same	ses. I inform	lt is m natio	nade a n avaii	vaila lable	ble so to the	tained for design that users may have State. It is	DRILL RIG SOIL & RO REG GEO	OCK DESC	CRIPTIO					
the	informat	ion repr	esent	s only	a sm	all fr	action o	ploration process, of the total volume	ENGINEI DATE APP	ER		JNOF	FICIA	AL LOG		
	ne mater be indica							n data samples may red.	RESIDENT	ENGINE					,	
									Northamp			ton Exp	ressw	B.I.N. ay		20
CON	NTRAC	г	(CONT	TRAC	TOD			SHEET 1				HC	LE DH-	6B	

PSN REGI COU PIN PRO ACTI	JECT K	RIE ENSIN	NGTC	ON E.	N) 1,0 DAT I	SSW 059,3 E STA	VAY, S 31.840 ART _	GEOTI SUBS ECTION (E) 43 14-SE in W	ARTM ECHN SURF UNC 1 1 30,22 P-195 T OF F	ENT OF ICAL EN ACE E DFFIG. 9.010 9.010 1444 1444 1444 1444 1444	NEW YOR TRANSPO IGINEERING XPLORAT CIAL L DATU DATE R-CASING R-SAMPLER	RTATION B BUREAU ION LOG OG M NAC FINISH 300		LINE STA OFFSET SURF. ELEV. DEPTH TO W	656.15 /ATER _	EFT S SEE NO	OTE in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S		VS OI LER	N	MOIST. CONT. (%)		-				ON OF SOI	L AND ROCK			
	25.0	J21	6	<u>/ 12</u>	18	<u> 24</u>		(25	.00)	Red G	ray SILT ,	Some Cla	ay, Trace F	ine Gravel			(M-PL)
55				2													
45																	
63																	
74								(28)	.00)	Gray S	ILT , Som	e Gravel,	Clay And	Sand			(W-PL)
	30.0																
76	00.0	J22	1	_				1									
52				2													
63																	
72																	
76																	
100	35.0						L										
78		J23	2	2													
75 92																	
90																	
90	-	R1						(38	.83)		Drilled fro 34" 59.6		To 43'7"	ROCK , Sean	ned		
	40.0									0.	0. 00.0	,					
								<u> </u>		BOTT	OM OF HO	LE AT 4	3.58 ft				
		ſ							DE	TH ft		ΔRT	ESIAN	FILLED W	ITH		
			D	ATE		TIM	ie	HOLE		SING	WATER	HEAD	HEIGHT GROUND	WATER	AT		
		-	15-9	Sep-5	55	15:0		43.58		3.83	8.33	ABOVE	GITOOND	LIND OF B	7.1		
				•										-			
and acce pres the of th	subsurfact estimate ess to the sented in control information one materia	purpos same good fa n repre l at the	ses. I inforn aith. I esents e site.	t is m nation By the s only Inte	nade a n avai e natu / a sn rpolat	availa lable ire of nall fr ion b	ble so to the to the expansion of the ex	that user State. It ploration of the tota data sa	s may is proce al volu	have ess, ume	REG GE ENGINI DATE AF	OCK DE OTECHN EER PPROVEI	SCRIPTION ICAL U	N R. Zemla	L LOG		
not	be indicat	ive of t	the ac	tual r	nater	al en	counte	red.			STRUCT	NT ENGIN URE NAM	ИE		B.I.N.	1022	2620
cor	NTRACT		(CONT	ΓRAC	TOR					Northan SHEET	-	er Kensingte	on Expresswa HOI	y LE DH	-6B	

PSN REG	ION 5	;	В	ORNI	JM	72		STATE OF DEPARTMENT OF GEOTECHNICAL ENGINEERS SUBSURFACE EX	TRANSPORT SINEERING	BUREAU		LINE	DH-1B WP BL	
COU	NIY <u></u>	RIE						UNOFFIC			=	STA OFFSET	11+64 78.5 ft RIC	 GHT
PRO								ECTION I				SURF. ELEV	657.03	
ACT	UAL CO	ORDIN	ATES		Ŋ 1,05 DATE			(E) 429,978.560 18-SEP-1955	_ DATUM DATE F	NAD2	<u>7</u> _21-SEF		NATER SE	E NOTE
CASII	NG O.	D . 27	7/8 ir			2 3/8		in WT OF HAMMER		300	lb	HAMMER FAL	L-CASING	18 in
SAME	PLER O.	D. 2	ir	1	I. D.	1 3/8	В	in WT OF HAMMER	SAMPLER	300	lb	HAMMER FAL	L-SAMPLER	18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	VS ON LER in	n MC	DIST. DNT.		DESC	CRIPTION	I OF SOI	L AND ROCK		
2,E		SA	0		12 1	24	(%)							
23	0.0							(0.00) Red Bro	own SILT , S	Some Cla	y, Trace	Sand And Fir	ne Gravel	(M-PL)
57														
123		-												
127														
75	5.0													
66		J40	15	23										
128														
110														
108														
96	10.0	J41	13											
51		041	10	13										
54														
77									av SII T So	me Clav	Trace S	Sand And Fine	- <u> </u>	(M-PL)
80								(10.00) 1100 011	, O.E. , O.	omo olay	, 11400 C		, aravor	(101.1.2)
81	15.0	J42	4											
73				4										
45														
48		-												
52		-												
69	20.0	J43	3		\vdash									
70				2										
72		_												
65		-												
66		-												
70	25.0													
and acce pres the of th	estimate ess to the sented in information	purpos same good fa on repre al at the	ses. It inforn aith. E esents e site.	t is m nation By the s only Inte	ade av n availa e nature v a sma rpolatio	vailable able to e of the all fract on betv	e so t the S e exp rion c veen	ained for design that users may have State. It is oloration process, of the total volume data samples may red.	DRILL RIG SOIL & RO REG GEOT ENGINEE DATE APP RESIDENT STRUCTU	CK DESC FECHNIC R PROVED ENGINE	CRIPTIOI AL U	N <u>R. Zemla</u>	AL LOG B.I.N.	
CO	NTRACT		,	רוא 🗠	RACT	ΩP			SHEET 1			НΟ	LE DH-1	R
JUI	TITALI		`		IUMUI	υ π _				JI 2		110		_

PSN 282 PSN REG	ION 5	144 5 ERIE	_ B(ORN	UM	72	GEOT SUB	ARTMEN ECHNIC SURFA	NT OF T AL ENG CE EX	IEW YORK RANSPOR BINEERING PLORATI	RTATION B BUREAU ON LOG		LINE STA	DH-1B WP BL 11+64 78.5 ft R	IGHT	
PRO							SECTION	N۱					SURF. ELEV	657.03		
ACT	UAL CO	ORDIN	IATES	<u> </u>		9,201.5 START		29,978. P-1955		DATUI DATE	VI <u>NAD2</u> FINISH	27 21-SEP	DEPTH TO V -1955	VATER _S	SEE NC)TE
CASII	NG O. PLER O.		7/8 ii		I. D. I. D.		in W	T OF HA	MMER-		300 300	lb	HAMMER FAL HAMMER FAL		18 18	in in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	6	VS ON LER in	3 (%)	т.			DES	SCRIPTION	N OF SOIL	AND ROCK			
	25.0	J44	2		18/	24	(25	.00) R	led Gra	y SILT , S	Some Clay	, Trace Sa	and And Fine	Gravel		(M-PL)
75		<u> </u>		4			₍₂₆	.00) B	rown G	ray SILT	, Some Cl	ay, Sand	And Fine Gra	avel		(M-PL)
90		-														
92																
93																
83	30.0						_]									
70		J45	5	4												
90																
102																
94		-														
98	35.0	J46	2													
72				2												
75																
78																
76																
81	40.0															
110		- R1					(40	B	roken			o 45'9" R	OCK , Seam	ed And		
	<u> </u>							R	REC. 6	0" 100%	0					
		-														
	45.0															
			<u> </u>					В	OTTO	M OF HO	LE AT 45.	75 ft				
								_	3.			-				
		[DEPT	H ft		ARTE	SIAN	FILLED W	/ITH		
			D	ATE		ГІМЕ	HOLE	CASI		WATER	HEAD H	HEIGHT	WATER END OF I	AT		
			21-	Sep-5	55 1	5:00	45.75	40.7		14.33						
and acce pres the of th	estimate ess to the sented in information	e purpose e same good fa on repr al at the	ses. I inforr aith. I esent e site.	It is m mation By the s only Inte	nade av n availa e nature / a sma rpolatio	ailable s ble to th e of the e Il fraction n betwe	btained fo o that user e State. It exploration n of the tot en data sa tered.	rs may h is process al volum	nave s, ne nay	SOIL & R REG GEO ENGINE DATE AP RESIDEN	OTECHNIC	CRIPTION CAL U	I R. Zemla	LLOG B.I.N.		
00.	NTD 4 OT			2011		OD							ЦО		1 D	
COL	NTRACT		(CONT	TRACT	UK				SHEET 2	2 OF 2		HO	LE DH-	ΙB	

PSN PSN REGI	ON E	144 5 ERIE	_ B(ORN	UM _	82	_	STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING	BUREAU		LINE	UD-US2 CL 77+22	
PIN	_						_	UNOFFIC	IAL LO)G	-	_	30 ft RIGH	łT
								ECTION I (E) 429,958.630	DATUM	NAD2			V. <u>652.13</u> WATER SE	E NOTE
ACT	JAL CO	ONDIN	MIE		DATE			15-MAR-1956	_ DATOM DATE F		<u>/</u> 19-MAF		WAIEN SE	ENOTE
CASII SAMF	PLER O.		1/2 ii 1/2 ii		I. D			in WT OF HAMMER		300 300	lb lb		ALL-CASING ALL-SAMPLER	18 ii 18 ii
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	6	/	n 18	MOIST. CONT. (%)		DES	CRIPTION	I OF SOI	L AND ROC	K	
10	0.0		6	12	/ 18	<u> 24</u>		(0.00) Brown	SILT , Some	e Clay, Tr	ace Fine	Sand		(M-PL)
		1												
21		-												
47		-												
37														
76	5.0	J236	13	18										
59														
124														
199														
253		1												
299	10.0	J237	10											
97		J238		21										
143		J230		24										
164														
158														
		J239	10					(14.00) Red Gr	ay SILT, So	ome Clay				(M-PL)
101	15.0	T240												
76		-						on Forr	n SM 401, l	JNDISTU	RBED S	AMPLE SU	MMARY LOG	
75		T241	_						tion Of Und	lioturbod (Soil Som	plac Chaur		
76		1241											MMARY LOG	
76														
	20.0	T242						(19.00) Descrip	tion Of Und	listurbed S JNDISTU	Soil Sam	ples Shown	MMARY LOG	
57	20.0	1						3.1.1 011			0	00		
46		T243	1						tion Of Und	listurbed §	Soil Sam	ples Shown		
39								on Forr	n SM 401, l	JNDISTU	RBED S	AMPLE SU	MMARY LOG	
47		TOTA	-						+ion_Of II	ا - جاس بامال	5aī C `			
56		T244						(23.00) Descrip on Forr					MMARY LOG	
71	 25.0													
The	subsurfa							ained for design that users may have	DRILL RIG			N H. Dani	ale	
acce pres the of th	ess to the sented in informati	e same good fa on repr al at the	inforr aith. I esent e site.	nation By the s only Inte	n avai e natu ⁄ a sm rpolat	lable re of all fr ion b	to the S the exp action o etween	State. It is obloration process, of the total volume data samples may	REG GEO ENGINES DATE APP RESIDENT STRUCTU	TECHNIC ER PROVED FENGINE	AL U ER		AL LOG	
COL	NTRACT			CONIT	ΓRAC	TOD			SHEET 1	OF 2		Н	OLE UD-U	IS2

-	E 12/02	4.4	D.	2011	118.4	00		555		NEW YOR				1100	
PSN REGI	114 ON 5		- B	JRINI	UM _	82	_		ARTMENT OF ECHNICAL EI			J	HOLE UD-	052	
COU		RIE					_	SUBS	SURFACE E	XPLORAT	ION LOG		STA 77+	22	
PIN							_		JNOFFI	CIAL L	OG :	· –	OFFSET 30		łΤ
PRO.	JECT K	ENSI	NGTO	ON E	XPRE	SSV	VAY,	SECTION	1 I				SURF. ELEV. 6		
ACT	JAL CO	ORDIN	ATES					00 (E) 42	29,958.630	DATU)27	DEPTH TO WATE	R SE	E NOTE
					DATE	-			R-1956		FINISH	19-MAF			
CASI	-		1/2 i i		I. D.				T OF HAMME		300	lb	HAMMER FALL-CAS	-	18 ir
SAMP	LER O.	D. 3	1/2 i ı	1	I. D.	2	7/8	in W	T OF HAMME	R-SAMPLEF	R 300	lb	HAMMER FALL-SAM	IPLER	18 ir
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	AMP	VS ON LER in	n 8/	MOIS CON (%)	Г.		DE	SCRIPTIO	ON OF SOII	L AND ROCK		
	25.0	T245	Ĭ					(25					ples Shown		
39									on For	m SM 401	, UNDIST	URBED S	AMPLE SUMMAR	/ LOG	
41		T246						$+-\frac{1}{127}$.00) Descri	ntion Of II	ndisturbe		ples Shown		
43		1240						(27)					AMPLE SUMMAR	/ LOG	
70											•				
42								L							
	00.0							(29	.00) Gray (GRAVEL A	ND SILT	, Some Sa	nd		(M-NPL)
112	30.0	J247	10												
67 l		0247	10	41					DOTT	OM OF HO	N F AT 20) CC #			
01									БОТТ	OW OF HO	DLE AT 30	J.00 II			
			Refus	sal or	Lime:	ston	e roc	k encoun	tered at 30.6	66 feet.					
			n	ATE		TIM	IE		DEPTH ft			ESIAN HEIGHT	FILLED WITH WATER AT		
			D	AIL		1 1171	' - [HOLE	CASING	WATER		GROUND	END OF DAY		
			19-	Mar-5	56	15:0	00	30.66	30.66	11.57					

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR	
SOIL & ROCK DESCRIPTION	H. Daniels
REG GEOTECHNICAL	
ENGINEERUN	IOFFICIAL LOG
DATE APPROVED	
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N
SHEET 2 OF 2	HOLE UD-US2

CONTRACT ____ CONTRACTOR

PSN REGIO	ON _	144 5	_ B(ORN	UM _	66	_	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING	BUREAU		LINE			
COUN	TY _	ERIE					_					STA			
	ECT	KENSI	NGTO	ON E	XPRE	ESSV	 VAY. S		JIAL LU					:FI	
								(E) 429,789.230				DEPTH TO		SEE NOTE	
CACINIC		D 0	7/0 :-										LL CACING	10	
								-							
PROJECT KENSINGTON EXPRESSWAY, SECTION SURF. ELEV. 654.49															
Z AS	- - - - - - - - - - - - - - - - - - -	SAM	0	6 /	12 /	18 /			DES	CHIPTION	N OF 30	IL AND ROCI	`		
ш,			6	12	18	24									
7	0.0							(0.00) Yellow	Brown SILT	, Some S	Sand, Ir	ace Clay		(M-	LPL)
9															
19															
10															
10		1													
35	5.0	.184	13				<u> </u>								
64				16											
72															
12		1													
66		-													
255															
126	10.0														
120	10.0	J85	12				<u> </u>								
45		-		8					av SIIT S	me Clav	Trace 9	Sand And Fin	e Gravel	[M	-PI \
53								(11.00) 1100 01	ay OIL1 , O	onic Olay	, macc c	Jana Ana i iii	ic diavei	(101)
F.0															
53		1													
54		4													
63	15.0						L								
_,		J86	2	2											
54				_											
34		_													
34															
54															
J4		1													
41	20.0	J87	1				<u> </u>								
42]		1											
45															
		1													
45		+													
43															
55	25.0														
	_5.0						<u> </u>	 							
								ained for design that users may have	DRILL RIG			N D 7			
acces	s to the	same	inforn	natioi	n ava	ilable	to the	State. It is	REG GEO			N R. Zemla	l		
								oloration process, of the total volume	ENGINE	ER	L	JNOFFICIA	AL LOG		
of the	materi	al at the	e site.	Inte	rpolai	tion b	etween	data samples may	DATE APF	_	ER				
not be	e indica	tive of t	ne ac	tual i	mater	iai en	counte	rea.	STRUCTU	-			B.I.N	1022610)
											Kensing	ton Expressy	vay	45	
CONT	TRACT		,	CONT	TDAC	TAB			SHEET 1			HC	DLE DH-	1R	

PSN 282 PSN REG COU PIN	ION	114 _5		_ B(DRNI	UM _	66		GEOTE SUBS	ARTMEN ECHNIC SURFA	NT OF AL EN CE EX	NEW YOR TRANSPO IGINEERINI XPLORAT CIAL L	RTATION G BUREAU ION LOG		LINE STA	DH-4B Baseline 92+31.5 292 ft LE	:FT
									SECTION (E) 42		220	DATU	M NAD2		SURF. ELEV	654.49	
		CO	אוועחכ	AIES	_	DATE	STA	ART _	27-SEI				FINISH _	28-SEP	-1955		BEE NOTE
CASI	ng Pler	O. O.		7/8 ir ir		I. D I. D		3/8 3/8				R-CASING R-SAMPLER	300 300		HAMMER FAL		18 in 18 in
CASING BLOWS/ft	DEPTH #		SAMPLE NO.	S	6 12	/	I n 18 24	MOIST CONT (%)		00) R	led Gr				. AND ROCK		(M-PL)
46	_	_			2												
57	_		-														
47	_																
47	_	_	-														
49	30	.0	J89	1					-								
40			003	ľ	2												
46																	
42																	
35			R1						- (33.	67) R	lun #1	Drilled fro	om 33'8" T	o 36'4" R	OCK , Seam	ed And	
	35	.0							`	B	roken				,		
	_	_	R2						(36.	B	roken			o 39'4" R	OCK , Seam	ed And	
										В	OTTO	OM OF HO	DLE AT 39.	33 ft			
				D	ATE		TIM	F _		DEPT	H ft		ARTE HEAD H		FILLED W	I	
			-						HOLE	CAS	ING	WATER	ABOVE G		END OF I	I	
				28-9	Sep-5	55	15:0	00	39.33	33.6	67	13.17					
The	subs	urfa	ce info	rmatic	on sh	own h	ere v	vas ob	tained for	· design	,	DRILL R	IG OPERA	TOR			
and acc pres the of th	estin ess to sente inform ne ma	nate the d in g natio	purpos same good fa on repr	ses. I inforn aith. I esents e site.	t is m nation By the s only Inte	nade a n avail e natu v a sm rpolati	vaila able re of all fra on b	ble so to the the ex action etweer	that users State. It ploration of the tota data sar	s may h is process al volun	nave s, ne	SOIL & F REG GE ENGINI DATE AI RESIDEI	ROCK DES	CRIPTION AL U	NOFFICIA	L LOG	1022610
	NTRA			,	CONT	rac'	ΓΩĐ						Street over		on Expressw HO		

PSN REGI	ON _	444 5	_ B(ORN	UM _	64	_	DEPARTMENT OF GEOTECHNICAL EN	IGINEERING	BUREAU			INE _	DH-2B Baseline		
COUI PIN	NTY _	ERIE					_	SUBSURFACE E					_	91+65 272 ft LE	CT	
	JECT _	KENSII	NGTO	ON E	XPRE	SSV	 VAY, S	SECTION I	2/ <u>-</u> c					650.88	ГІ	
ACTL	JAL CC	ORDIN	ATES	_					DATUM				TO W	ATER S	EE NOTE	
CASIN	NG O	D. 2	7/8 i i		DATI			23-SEP-1955 in WT OF HAMMER	DATE F R-CASING	300	26-SE	P-1955 HAMMEF	- R FALL:	-CASING	18	iı
SAMP	LER O	D. 2	i	n	1. 0). 1	3/8	in WT OF HAMMER	R-SAMPLER	300	lb	HAMMER	R FALL	-SAMPLER	18	i
5 ₹	ڐ≥٣	Щ	1	_	NS OI		MOIST									
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.			LER		CONT.		DES	CRIPTION	OF SO	IL AND R	OCK			
고립	ᆱᆱᇝ	15	0	6		18 24	(%)									
	0.0			12				(0.00) Yellow	Brown SILT	, Some S	Sand				(M-N	IPL)
19		-														
27		_														
30																
		1														
57		1														
91	5.0	J52	11				<u> </u>	-								
59			''	15												
53																
52		-														
57		_						(9.00) Red Gi			Tropo		Eino ((M-	DI \
60	10.0						L	(9.00) Ned Gi	ay SILT, S	one Glay	, made v	Sanu Anu	rine	Jiavei	(IVI-I	г L)
50		J53	5	3												
		-														
51		-														
54		_														
50																
49	15.0															
	13.0	J54	1				<u> </u>	1								
35				1												
30																
30																
		1														
32		1														
39	20.0	J55	1					-								
45			.	2												
40																
		1														
39		1														
42		4														
41	25.0						L	L								
The	subsurf	ace info	rmeti.	on sh	lown h	nere i	Nas obi	tained for design	DRILL RIG	OPFRAT	TOR -					
and	estimate	e purpos	ses. I	lt is m	nade a	availa	ble so	that users may have	SOIL & RO	OCK DESC	CRIPTIO	N R. Ze	mla			
pres	ented in	good fa	aith. I	By the	e natu	ire of	the exp	State. It is ploration process,	REG GEO			JNOFFI	CIAI	LOG		
								of the total volume n data samples may	DATE APP	PROVED					20000	
	pe indica								RESIDENT STRUCTU					DIN	1022610	
									Dodge St			<u>iton</u> Expre	sswav	B.I.N		_
CON	ITRACT	-		CON	TDAG	TOD			SHEET 1				∐ ∏	E DH-2	DR	

-	E 12/02							STATE C	F NEW YOR	K		<u>-</u> _		
PSN REGI	ION _	444 5	_ B(ORNUI	M <u>64</u>	_	GEOTE	CHNICAL E	F TRANSPO ENGINEERIN	G BUREAU		LINE	DH-2B Baseline	
COU	NTY _	ERIE				_			EXPLORAT ICIAL L		=		91+65 272 ft LEI	 =T
							ECTION	1 29,800.200	DATU	I M NAD2		SURF. ELEV. DEPTH TO W	650.88	
				D	ATE ST	ART _	23-SEI	P-1955	DATE	FINISH _	26-SEP	-1955		
CASII	NG O. PLER O.		7/8 ii					OF HAMMI	ER-CASING ER-SAMPLEF	300 300		HAMMER FAL		18 in 18 in
S/#	±≥ä	Щ		BLOWS		MOIST.								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	AMPLI	EK IN 2 / 18 /	CONT.			DE	SCRIPTION	OF SOIL	AND ROCK		
B			6	L / L.	18 24		(05	00) Dad	O OII T	0	T		0	(MA DL)
29	25.0	J56	1	1			(25.	00) Rea (aray SILI,	Some Clay	, Trace Sa	and And Fine	Gravei	(M-PL)
33	<u> </u>						L							
42							(27.	00) Gray	SILT , Som	e Gravel, S	and And	Clay		(M-PL)
47														
48	30.0													
40	00.0	J57	2					40_ D	475:11-7 =		- 05101 0	001/ 000		
		R1					(30.	Broke	en		0356 R	OCK , Seame	ea Ana	
		-						REG.	60" 99.6	1%				
		-												
		_												
	35.0	_												
		R2					(35.			om 35'6" To	o 37'6" R	OCK		
								REG.	24" 100°	70				
								ВОТ	гом оғ но	DLE AT 37.	50 ft			
								DEPTH ft		ARTE	SIAN	FILLED W	ITH	
			D	ATE	TIM		HOLE	CASING	WATER	HEAD H ABOVE G		WATER /	I	
			26-9	Sep-55	15:0	00	37.50	35.00	11.67					
The	subsurf	ace info	rməti	nn show	wn here i	was oht	ained for	desian	DRII I B	RIG OPERAT	ΓOR			
and	estimate	purpo.	ses. I	t is mad	de availa	ble so i		s may have	SOIL & I	ROCK DESC	CRIPTION	R. Zemla		
pres	sented in	good f	aith. I	By the i	nature of	the exp	oloration	process,	REG GE ENGIN	OTECHNIC EER		NOFFICIA	L LOG	
of th	ne mater	ial at th	e site.	Interp	olation b	etween	data sar	al volume mples may		PPROVED NT ENGINE	ER			
not	ve indica	uve of	іпе ас	iuai ma	aterial en	icounte	rea.		STRUCT	TURE NAME	<u> </u>	F.	B.I.N	1022610
CON	NTRACT	·	(CONTR	RACTOR				Dodge :		<u>kensingto</u>	on Expresswa HOI	iy LE DH-2	2B

PSN REGIO	ON _	444 5	_ B	ORN	UM _	63	_	DEPARTMENT OF GEOTECHNICAL EN	GINEERING	BUREAU			NE DH-1B Baselin	e	
COUN	NTY _	ERIE					_	SUBSURFACE EX UNOFFICE			=	_	TA 91+01	LEET	
PIN PROJ	ECT -	KENSI	NGTO	ON E	XPRI	ESSV	 VAY, S	SECTION I	JIAL LU	ď			ET <u>353 ft</u> LEV. 652.6		
	_	OORDIN			N) 1,0	058,7	19.200	(E) 429,703.170	DATUM			DEPTH 1	O WATER		ΓΕ
CASIN	IC 0	. n 2	7/0 i		DAT I. I		ART _ 2 3/8	27-SEP-1955	DATE F	INISH _ 300	28-SEF		EALL CASING	10	
	LER C		7/8 i :	n n	ı. ı I. [3/8	in WT OF HAMMEF in WT OF HAMMEF		300	lb lb		FALL-SAMPL		i i
	111			DI OV	NS O										
NS/f	DEPTH # BELOW SURFACE	SAMPLE NO.			PLER		MOIST CONT.		DEC	CDIDTION	1 OE COI	IL AND RO	NCK		
CASING BLOWS/ft		NAS N	0 /	6 /	12 /	18 /	(%)		DES	CHIPTION	I OF 501	IL AND RC	JCK .		
ш			6	12	18	24									
	0.0							(0.00) Yellow	Brown SAN	D AND S	ILI			(N	/I-NPL
Ī															
ŀ		_													
		J90						1							
ŀ	5.0														
62															
120															
116								(8.00) Gray B	rown SILT,	Some Cla	ay And S	Sand, Trac	e Gravel	-	M-PL)
90															
94	10.0						$\mathbb{L}_{}$								
65		J91	7	8											
03															
93		_													
116															
130															
	15.0														
155	15.0	J92	4				 	-							
90				3											
91															
93															
96		_													
104	20.0	100	4			<u> </u>	L	_							
58		J93	4	7											
67		\dashv													
68		_													
80															
90	25.0														
		1					t	<u> </u>	 						
								ained for design that users may have	DRILL RIG SOIL & RO			N R 701	mla		
acce	ss to th	ne same	inforr	natio	n ava	ilable	to the	State. It is	REG GEO		AL			200000000000	
the in	nformat	tion repr	resent	s only	y a sn	nall fr	action i	oloration process, of the total volume	ENGINEE DATE APP		ι	JNOFFI	CIAL LOG		
of the	e matei		e site.	Inte	rpola	tion b	etweer	n data samples may	RESIDENT		ER				
not b	, a maic	auve Ul	ui c al	nuai i	maiel	iai El	ioourite	icu.	STRUCTU	RE NAME			B.I.N.	10226	10
	ITRAC	_		CON					Dodge St		Kensing	ton Expres	ssway HOLE DI	140	

CASI	114 ON 5 NTY E	ERIE (ENSINORDIN D. 2	NGTO	0N EX 6 _(N 1		SSW. 8,71 STA	AY, S 9.200 RT _ 3/8 i	GEOTE SUBS ECTION (E) 42 27-SEI	ARTMENT OF ECHNICAL E SURFACE E JNOFFI I I 29,703.170	NGINEERING EXPLORAT CIAL L DATU DATE R-CASING	RTATION B BUREAU ION LOG DG M NAD2 FINISH 300	7	STA OFFSET SURF. ELEV. DEPTH TO WA	Baseline 91+01 353 ft LEF 652.63 ATER SE	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	AMPL	S ON ER in	N (MOIST. CONT. (%)						AND ROCK		
82	25.0	J94	3	12 5	18/	24		(25.	00) Gray I	Brown SILT	, Some Cla	ay And Sa	ınd, Trace Gra	avel	(M-PL)
91 123		-													
112 115	30.0	-													
48		J95	2	2											
52	35.0	R1						— <u>(</u> 31.	Broke			5 36'9" R	OCK , Seame	d And	
					nead o				BOTT om 0 to 5 fe	OM OF HC	LE AT 36.7	75 ft			
			D	ATE	-	TIME		HOLE	DEPTH ft CASING	WATER	ARTE: HEAD H ABOVE G	EIGHT	FILLED WI WATER A END OF DA	T.	
			28-5	Sep-5	5	15:00) ;	36.75	31.75	11.50					
and acce pres the i	ess to the sented in information	purpos same good fa on repre	ses. It inform aith. E esents	is mation By the only	ade av availa nature a sma	ailab able to e of to all frac	le so to o the S he exp ction o	hat users State. It in Inforation in Information in the total	s may have is	SOIL & F REG GEG ENGINI DATE AF	OTECHNIC EER PPROVED	CRIPTION AL UI	R. Zemla	LOG	
not l	be indica		the ac	tual m		l enc			,ay	STRUCT			n Expressway HOL	B.I.N. /_ .E DH-1	1022610 B

PSN			ВО	RNUI	M <u>69</u>	<u> </u>	DEPARTMENT OF			<u>=</u>		PH-1A	
REG COU		RIE					GEOTECHNICAL EN SUBSURFACE EX				LINE STA	Baseline 90+97	
PIN	_						UNOFFIC	CIAL LO	G	=	_	319 ft LEF	-T
							ECTION I	D.471114	NADO	_	SURF. ELEV		
ACT	UAL CO	JRDIN	AIES		1,058, ATE S		(E) 429,734.160 23-SEP-1955	DATUM DATE F	<u>NAD2</u>	<u>/</u> 26-SEF		NATER SI	ENOIE
CASI	NG O. PLER O.		7/8 in in		I. D. I. D.		in WT OF HAMMER	-CASING	300	lb lb	HAMMER FAI		18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		Z .	ER in	MOIST. CONT. (%)		DES	CRIPTION	I OF SOI	L AND ROCK		
	0.0	J67 J68	6/	12	18 2	4	(0.00) Black S (0.50) Brown	ILT , Some Black SILT				nd Clay	(M-NPL) (M-LPL)
		J69				 	(1.50) Brown						(M-NPL)
		J70				 							
							(3.50) Yellow	Brown SAN	D , Some	Silt			(M-NPL)
48	5.0						(5.00) No San Hole Pi	nples Taker ogressed A	 s A Case	d Probe	 Hole		
54							1 IOIE FI	ogrosseu A	o n Gase	a i 100e	0.0		
58													
79													
103	10.0												
200													
194													
135													
120	15.0												
118													
152													
188	<u> </u>												
162	20.0												
100 88													
90													
89													
84	25.0												
and acc pres the of th	estimate ess to the sented in information	purpos same good fa on repre al at the	es. It informath. Bjesents	is mad ation a y the i only a Interp	de avail availabl nature d a small polation	lable so the soft the expension of the e	ained for design hat users may have State. It is bloration process, of the total volume data samples may red.	REG GEO ENGINES DATE APP RESIDENT	CK DESC FECHNIC R PROVED ENGINE	CRIPTION AL L ER	N R. Zemla	AL LOG	
00	UTD 4 OT		_	O 1	MOTO	n		STRUCTU			Ш	B.I.N	Λ
CO	NTRACT		c	ONTF	RACTO	н		SHEET 1	UF 2		HC	LE PH-1	H

PSN REGI COUI PIN PRO ACTI	JECT K	ERIE ENSIN ORDIN D. 2	NGTON E	(N) 1,05	SSWAY, 58,704.5 START	GEOTI SUBS SECTION 70 (E) 43 23-SE in W	ARTMENT OF ECHNICAL EN SURFACE E JNOFFI	NGINEERING XPLORAT CIAL L DATU DATE R-CASING	RTATION G BUREAU ION LOG OG M NAD2 FINISH 300	7 26-SEP	STA OFFSET SURF. ELEV. DEPTH TO W	Baseline 90+97 319 ft LEF 652.27 ATER SE	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	SAM 0 6	WS ON PLER in	8 (%)	T.		DE	SCRIPTION	I OF SOIL	AND ROCK		
80 83 89	25.0 					(25		mples Tak Progressed	en As A Case	d Probe I	Hole		
90 107 70 84	30.0	R1				(31	.50) Run#	1 Drilled fro	om 31'6" To	- 36'6" - B	OCK , Seame	d And	
84	35.0					(31	['] Brokei			7300 N	OON, Seamer	a Allu	
						by hand f btained fro	rom 0 to 5 fe		OLE AT 36.5	50 ft			
			DATE	= -	TIME	HOLE	DEPTH ft CASING	WATER	ARTE: HEAD H ABOVE G	EIGHT	FILLED WIT WATER AT END OF DA	Т	
			26-Sep	-55 1	15:00	36.50	31.50	5.33					
The	subsurfa	ce info	rmation s	hown he	ere was o	btained for	desian	DRILL R	IG OPERAT	TOR			
and acce pres the of th	estimate ess to the sented in g information ne materia	purpos same good fa on repre al at the	ses. It is information in the in	made avon availa ne nature ly a sma erpolatio	railable somble to the earling of the earling of the earling on between	o that user e State. It exploration n of the tot en data sa	s may have is process,	SOIL & F REG GE ENGINI DATE AI RESIDEI	ROCK DESC OTECHNIC	CRIPTION AL U	I R. Zemla NOFFICIAL	LOG	
CON	NTRACT		CON	ITRACT	OR			SHEET	2 OF 2		HOL	E PH-1A	4

PSN REG	ION	1444 5	E	BORN	UM _	65	_	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE E	GINEERING	BUREAU		LINE	DH-3B Baseline	
COU PIN	NIY .	ERIE					_	UNOFFIC			• =	_	90+41.5 239 ft LE	FT
	JECT	KENS	SINGT	ON E	XPRE	ESSI	— NAY, S	ECTION I				SURF. ELEV		I I
ACT	UAL C	OORD	NATE	S _(27.360		DATUM		27	DEPTH TO V		EE NOTE
0.40			0.7/0		DAT			27-SEP-1955	DATE F	_	28-SEP			40 !
CASI	NG (PLER (2 7/8 2	ın in	I. C I. C			in WT OF HAMMEF in WT OF HAMMEF		300 300	lb lb	HAMMER FAL		18 i 18 i
							0,0	THE WITCH THANKING	TOAINI LLIT	000		TIANIMETTI AL	L OAMI LLIT	10 1
Z, ¥,	DEPTH # BELOW	SAMPLE	.	BLO\ SAMF	WS O		MOIST.							
CASING BLOWS/ft	F		2 0	√6 ✓	12 /	18 /	CONT.		DES	CRIPTION	N OF SOIL	AND ROCK		
ᆼᇳ	□ □ 0	કુ જ			18		' '							
	0.0			12	10			(0.00) Yellow	Brown SILT	, Some S	Sand, Tra	ce Clay And	Fine Gravel	(M-LPL)
14	L .													
37														
01	-													
78														
86														
68	5.0	J9(3 11				<u> </u>	-						
27		1 39	' ''	14										
30	-													
52														
50	<u> </u>	_												
58	10.0													
		J9 ⁻	7 9	10										
49	-			12				(11.00) Red Gi	av SILT . So	ome Clav	. Trace F	ine Sand And	Gravel	(M-PL)
42	L .								,	,	•			,
F 0														
50	-													
51														
41	15.0													
71	10.0	J9	3 4				 	-						
47	L .			4										
47														
48	<u> </u>	-												
54														
71	20.0	J9:	9 5				 	-						
52	L .			4										
70														
70	-	\dashv												
72	L .	_												
75														
13	Η.	\dashv												
70	25.0	+	\perp				<u> </u>	<u> </u>						
The	Suhsu	face in	l forma	tion sh	I IOWn F	L here	was oht	l ained for design	DRILL RIG	OPFRA	TOR			
and	estima	te purp	oses.	It is n	nade a	availa	able so	that users may have	SOIL & RO	OCK DES	CRIPTION	R. Zemla		
								State. It is ploration process,	REG GEO	TECHNIC	AL			***
the	informa	tion re	oreser	nts onl	y a sn	nall fi	action o	of the total volume	ENGINEE DATE APP		U	NOFFICIA	L LUG	
of th	ne mate	rial at i	he site	e. Inte	erpolai	tion b		data samples may	RESIDENT		ER			
HOU	ue IIIUI(auve C	ı ıne a	เบเนสเ	mater	ıaı er	icourile.	ı c u.	STRUCTU	RE NAME	Ε		B.I.N	1022610
		_		_		_					Kensingto	on Expresswa	ay	\D
\sim	NTRAC	T		CON	TDAC	TOD			SHEET 1	OE 0		$H \cap$	LE DH-3	. L

PSN REG COU PIN PRO ACT	JECT UAL CO	ORDIN D. 2	NGTO	ON E.	XPRI N) 1,(DAT	058,6 E ST 0 . 2	 VAY, S 27.36 ART _	GEOT SUBS SECTION 0 (E) 4: 27-SE in W	ARTMENT OF ECHNICAL EI SURFACE E UNOFFI	NGINEERIN EXPLORAT CIAL L DATU DATE R-CASING	RTATION G BUREAL TION LOG OG M NAC E FINISH 300		HOLE	Baseline 90+41.5 239 ft LEF 650.51 TER SE	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		6	VS OPLER		MOIST CONT (%)			DE	SCRIPTIO	ON OF SOI	L AND ROCK		
65	25.0	J100	4	5				(25	.00) Red G	ray SILT ,	Some Cla	ay, Trace F	ine Sand And G	iravel	(M-PL)
85															
90															
88															
69	30.0														
35		R1						- (30	.25) Run # Broke		om 30'3"	To 35'3" F	ROCK , Seamed	And	
										60" 100°	%				
	35.0														
		<u> </u>	!	l				1	ВОТТ	OM OF HO	DLE AT 35	5.25 ft			
			D	ATE		TIM	E		DEPTH ft			ESIAN HEIGHT	FILLED WIT WATER AT		
		·	20.1	Sep-	5.5	15:0	00	35.25	CASING 30.25	14.50	ABOVE	GROUND	END OF DA	Υ	
			20-	sep-	55	15.0	0	35.25	30.25	14.50					
and acco pres the of th	estimate ess to the sented in informati	e purpose same good fa good fa	ses. I inforr aith. I esent e site.	It is m mation By the s only Inte	nade a n ava e natu y a sn rpola	availa ilable ure of nall fr tion b	ble so to the the ex action etwee	State. It ploration of the total n data sa	s may have is	SOIL & I REG GE ENGIN DATE A RESIDE	OTECHNI	SCRIPTION ICAL U D IEER	N <u>R. Zemla</u>		1022610
COI	NTRACT		(CONT	TRAC	TOR	_			Dodge :		er Kensingt	on Expressway HOLE	E DH-3	В

SM 282 PSN REG			ВО	RNU	M7	0			RANSPORT		<u>=</u>	HOLE	PH-2A Baseline	
COU		RIE				_	SUBSURI	ACE EXF	LORATIO	N LOG		STA		
PIN		/ENIOIN						OFFIC	AL LO	G			205.5 ft L	EFT
	JECT <u>k</u> UAL CO						ECTION I (E) 429,84	10 130	DATUM	NAD27			V. <u>650.08</u> WATER SI	FE NOTE
ΑΟΙ.	OAL OO	J. (D.)	A120		ATE S		29-SEP-19		DATE F		29-SEP		WAILI	LLINOIL
CASI	NG O. PLER O.		7/8 in in		I. D. I. D.			HAMMER-C HAMMER-S		300	lb lb	HAMMER FA	ALL-CASING ALL-SAMPLER	18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		MPL	S ON ER in	MOIST. CONT. (%)			DESC	RIPTION	OF SOII	L AND ROC	K	
	0.0	J81		12	10, 2		(0.00)	Black Bro	own SILT ,	Some Sa	and And	Organic, Tra	ace Clay	(M-LPL)
		J82 J83							AND , Som /ellow Brov		 BILT AND	 D SAND , Tr	ace Clay	(<u>M-NPL)</u> (M-LPL)
35	5.0						(5.00)		oles Taken gressed As	 s A Cased	 d Probe I	 Hole		
22														
40 52														
55	10.0													
79														
96														
97														
98	15.0													
103														
127	_													
121 107	20.0													
112														
100														
90	_													
85	25.0							- – – – -						
and acco pres the of th	l estimate ess to the sented in information	purpos same good fa on repre al at the	es. It information in the second in the seco	is ma ation y the only a Interp	de ava availab nature a small oolation	ilable so t le to the S of the exp fraction o between	ained for desi that users ma State. It is bloration proc of the total voi data sample: red.	y have sess, lume sess may	DRILL RIG SOIL & RO REG GEOT ENGINEE DATE APP RESIDENT STRUCTUF	CK DESC ECHNICA R EOVED ENGINEI	CRIPTION AL U	N R. Zemla		
COI	NTRACT		C	ONTE	RACTO	R		-	SHEET 1	OF 2		Н	OLE PH-2	2A

CASING O. D. 2 7/8 in	1,058,663.41 ATE START I. D. 2 3/8	GEOTE SUBS L SECTION 0 (E) 42 29-SEF in WI	29,840.130 P-1955 FOF HAMME	NGINEERING XPLORAT CIAL L DATU DATE R-CASING	G BUREAU ION LOG OG M NAD27 E FINISH	7 29-SEP- Ib	STA 90 OFFSET 20 SURF. ELEV. 0 DEPTH TO WATH 1955 HAMMER FALL-CA	aseline 1+90 5.5 ft LE 650.08 ER SEI	E NOTE
	R in MOIS	т.	OF HAMME	DE	SCRIPTION		HAMMER FALL-SA	AMPLEK	in
127		(25.		mples Tak Progressed	en As A Caseo	d Probe H	Hole		
72 30.0 R1		(29.	Broker REC.	າ 33" 91.7	%		OCK , Seamed A	And	
Augered ahe Samples 81	ad of casing through 83 ob		rom 0 to 5 fe		DLE AT 32.4	2 π			
DATE	TIME	HOLE	DEPTH ft CASING	WATER	ARTES HEAD HE ABOVE GI	EIGHT	FILLED WITH WATER AT END OF DAY		
29-Sep-55	15:00	32.42	29.42	8.68					
The subsurface information show	n here was ol	btained for	design	DRILL R	IG OPERAT	OR			
and estimate purposes. It is mad access to the same information a presented in good faith. By the r the information represents only a of the material at the site. Interpond not be indicative of the actual ma	le available so vailable to the ature of the e. small fraction blation betwee	o that users e State. It is xploration n of the tota en data san	s may have is process, al volume	SOIL & F REG GE ENGINI DATE AI RESIDEI	ROCK DESC OTECHNICA	ERIPTION AL UI	R. Zemla NOFFICIAL L	LOG	

SHEET 2 OF 2

CONTRACT

CONTRACTOR

HOLE PH-2A

PSN PSN REG COU	ION	1444 5 ERIE	_ B	ORN	UM _	67		DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING XPLORATIO	BUREAU ON LOG		LINE STA	DH-5B Baseline 90+52	
PIN	IECT	KENISI	NGTO	ON E	YDDI	-001		UNOFFIC SECTION I	JIAL LU)G		OFFSET SURF. ELEV	125 ft LE	FT
	_	OORDIN							DATUM	NAD2		DEPTH TO V		EE NOTE
040			7/0		DAT		_	29-SEP-1955	DATE F		30-SEP-			40 .
CASII	NG (PLER (7/8 i	n n	I. C			in WT OF HAMMEF in WT OF HAMMEF		300 300		HAMMER FAL HAMMER FAL		18 ii 18 ii
CASING BLOWS/ft	DEPTH # BELOW	SAMPLE NO.	0 /		NS OI PLER 12 /		MOIST. CONT. (%)		DES	CRIPTION	OF SOIL	AND ROCK		
ш		, ,	6	12	18	24		(0.00)	D OII T	ANDOA	ND T	- 01		(M L DL)
	0.0							(0.00) Yellow	Brown SILT	AND SA	ND, Trac	e Clay		(M-LPL)
		J71						1						
	5.0													
36		_							~_~~		Tros C		. <u></u>	
59								(6.00) Red Gi	ay SILI, S	orne Clay	, Trace Sa	and And Grav	vel	(M-PL)
66														
68														
77	10.0													
47		J72	2	4			T							
47	-			4										
63		_												
75														
73														
73	<u> </u>													
77	15.0	J73	2				<u> </u>	-						
72				4										
80														
		7												
82	-	=												
73	<u> </u>	4												
81	20.0	\perp		L			L_							
40		J74	1	2										
40				-										
47		\dashv												
50														
46														
	05.0	7						(24.00) Gray S	ILT AND SA	ND, Son	ne Limest	one Fragmer	nts	(W-NPL
42	25.0						 	<u> </u>						
								tained for design	DRILL RIG					
								that users may have State. It is	SOIL & RO			R. Zemla		
								oloration process, of the total volume	ENGINE	ER		NOFFICIA	L LOG	
of th	ne mate	rial at th	e site.	. Inte	rpolai	tion b	etweer	n data samples may	DATE APP		ED			
not	be indic	ative of	the ac	ctual i	mater	ial en	counte	red.	STRUCTU				B.I.N	1022610
. -		_		-					Dodge St		Kensingto	n Expresswa		-D
COL	NTRAC	6		CON.										

PSN REGI COU PIN PRO ACTI CASII SAMF	JECT KUAL COO	ENSII DRDIN D. 2 D. 2	NGTOI ATES 7/8 in in	_(N) 1, DAT I. I I. I	ESSWA 058,602 TE STAR D. 23/ D. 13/	2.070 RT	GEOTE SUBS L ECTION (E) 42 29-SEI n WI	ARTMENT OF ECHNICAL EN BURFACE E JNOFFI I I 29,905.080	NGINEERING XPLORAT CIAL L DATU DATE R-CASING	RTATION G BUREAU ION LOG OG M NAD2 E FINISH 300	7 30-SEP- lb	STA STA OFFSET SURF. ELEV. DEPTH TO W/	Baseline 90+52 125 ft LEF 647.38 ATER SE	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0 6 6 2	12 18	"" C	ONT. (%)	(25.	00) Grav S				one Fragment	s	(W-NPL)
60				2			(20.	oo, alay c)IE1 /((VB (57 (1 1 D , 001	no Ennost	one i raginent	J	(** *** ***)
62	30.0	R1					—— <u>(</u> 26.	Brokei			To 31'10"	ROCK, Sean	ned And	
		L		I				BOTT	OM OF HO	DLE AT 31.8	33 ft			
				ed ahead e 71 obta				rom 0 to 5 fe	eet.					
		Г										T		
			DA	ATE .	TIME	<u> </u>	101 5	DEPTH ft	WATER	ARTE HEAD H	IEIGHT	FILLED WIT	т	
	30-Sep-55 1		15:00	_	HOLE 31.83	CASING 26.83	14.83	ABOVE G	ROUND	END OF DA	AY			
The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.									DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION R. Zemla REG GEOTECHNICAL ENGINEER UNOFFICIAL LOG DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N. 1022610					1022610
CON	NTRACT		C	ONTRAC	CTOR				Dodge S SHEET		Kensingto	on Expressway HOL	<u>'</u> E DH-5	В

SM 282 PSN	E 12/02	44	ВО	RNUN	Л 71		STATE OF DEPARTMENT OF	NEW YORK TRANSPORT	ATION	<u>=</u>	HOLE	PH-3A	
REG							GEOTECHNICAL EN SUBSURFACE EX				LINE	Baseline	
COU	NTY _E	RIE				_	UNOFFIC				STA OFFSET	90+14 55 ft LEFT	-
	JECT H	ENSIN	IGTO	N EXP	RESS	— WAY. S	ECTION I	// <u>-</u>	•		SURF. ELEV		
	UAL CO							DATUM	NAD2	7		VATER SE	E NOTE
					ATE ST		22-SEP-1955	DATE F		26-SEP			
SAME	NG O. PLER O.		7/8 in in		I. D. I. D.		in WT OF HAMMER in WT OF HAMMER		300	lb lb	HAMMER FAL		18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		LOWS MPLE		MOIST. CONT. (%)		DESC	CRIPTION	I OF SOII	L AND ROCK		
<u> </u>	0.0	0)	6	12	/ /	1	(0.00) Brown	Black SII T	Some Sa	and And	Organic, Trac	ce Clay -	(M-LPL)
18							, Topsoil				ce Fine Grave	•	- (M-NPL)
44									2712 0	,			
100		J66				<u> </u>	-						
124													
78	5.0	-					(5.00) No San	nples Taken					
60								rogressed A		d Probe	Hole		
48		-											
42													
55													
89	10.0												
88		_											
10													
53													
55		-											
69	15.0	_											
65													
65													
65													
55		-											
55	20.0	-											
53		-											
54		-											
49		-											
61		-											
61	25.0	_											
and acce pres the of th	estimate ess to the sented in information ne materia	purpos same good fa on repre al at the	ses. It information information in i	is mad ation a y the n only a Interpo	le availa vailable ature o small f olation l	able so to the foot the experience of the experi	ained for design that users may have State. It is bloration process, of the total volume a data samples may	DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION R. Zemla REG GEOTECHNICAL ENGINEER UNOFFICIAL LOG DATE APPROVED RESIDENT ENGINEER					
not	be indica	uve ot t	ne actu	uai ma	terial ei	ncounte	rea.	STRUCTU				B.I.N	
COI	NTRACT		C	ONTR	ACTOF	₹		SHEET 1	OF 2		НО	LE PH-3	A

CASI	114 ON 5 NTY E	ERIE (ENSII ORDIN D. 2	7/8 in I	RESSWAY	GEOTIO SUB SECTIO 40 (E) 4 22-SE in V	PARTMENT OF FECHNICAL EN SURFACE E UNOFFI N I	NGINEERIN XPLORAT CIAL L DATU DATE R-CASING	RTATION G BUREAU FION LOG OG M NAD27 E FINISH	HOLE PH-LINE Base STA 90+ OFFSET 55 1 SURF. ELEV. 64 DEPTH TO WATER P-1955 HAMMER FALL-CASHAMMER FALL-SAM	eline 14 t LEFT 16.79 SEE NOTE			
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS (SAMPLE) 0 6 12 1		IT.)								
42	25.0 	-			(25		mples Tak Progressed	en As A Cased Probe	Hole				
16	30.0	R1		(27.42) Run #1 Drilled from 27'5" To 32'5" ROCK , Seamed And Broken REC. 60" 100%									
	BOTTOM OF HOLE AT 32.42 ft Sample 66 obtained from auger.												
			DATE	TIME	HOLE	DEPTH ft	WATER	ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY				
		26-Sep-55 15:00			32.42	27.42	9.50						
and acce pres the i	estimate ess to the sented in information e materia	purpose same good factorial same same good factorial same good fac	rmation showr ses. It is made information av aith. By the na esents only a s e site. Interpol the actual mate	IG OPERATOR ROCK DESCRIPTIO OTECHNICAL EER PPROVED NT ENGINEER URE NAME	N R. Zemla JNOFFICIAL LO B.I.								

SHEET 2 OF 2

CONTRACT

CONTRACTOR

HOLE PH-3A

PSN REGI COU	ION	144 5 EF		. В	ORN	UM _	68	_ _ _	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING XPLORATIO	BUREAU ON LOG		LIN ST	A 89+52	
PIN PRO	JECT	KF	NSIN	JGTO	ON F	XPRI	-551	WAY S	UNOFFIG SECTION I	JIAL LU	lG .			T <u>92.5 ft L</u> . EV. 645.9	.EFT
						N) 1,0)58,4	97.050	(E) 429,904.990	DATUM			DEPTH T	O WATER _	SEE NOTE
CASII	NG (O. D.	2	7/8 i ı	n	DAT I. I		_	29-SEP-1955 in WT OF HAMMER	DATE F	FINISH _ 300	30-SEF		FALL-CASING	18
	PLER (i		i. C			in WT OF HAMMER		300	lb		FALL-SAMPLER	
., ≠	# ~ !	й	ш		BLOV	vs o	N								
CASING BLOWS/ft	DEPTH # BELOW	F A	SAMPLE NO.	S	AMP	AMPLER in		MOIST.		DES	CRIPTION	N OF SOI	L AND RO	СК	
S H		5	SA	0	6	12	18	(%)							
	0.0	\dashv		6	12	18	24		(0.00) Yellow	Brown SILT	AND SA	ND , Tra	ce Clay		(M-LPL
25	_	4													
38															
58															
61	_	\dashv													
55	5.0	4	J76	9											
55			376	"	14										
57															
	-	_													
57	_	\dashv													
57	<u> </u>	4													
57	10.0)													
32			J77	5	10				(10.00) Gray B	rown SILT ,	Some Sa	and, Grav	vel And Cla	ay	(M-PL)
		┪													
36	_	\dashv													
39	<u> </u>	_													
33	L .														
47	15.0	,													
			J78	3	4										
36		+			4										
37	_	4													
40	L .	4													
47															
49	20.0	,													
		_	J79	3	_										
49	<u> </u>	\dashv			5										
51	<u> </u>	\dashv													
80	L .	\perp													
85															
	25.0	\Box													
75		\exists						<u> </u>	 						
									ained for design that users may have	DRILL RIG SOIL & RO			N R 70~	nla	
acc	ess to t	the s	same .	inforr	natioi	n ava	ilable	to the	State. It is	REG GEO		AL			
the	informa	ation	repre	esent	s only	y a sn	nall fi	action o	oloration process, of the total volume	ENGINES DATE APP		L	INOFFIC	HAL LOG	
								etweer counte	data samples may red.	RESIDENT		ER			
			- 0, 1	. J uc		.3.01				STRUCTU Dodgo St			ton Evere	B.I.N	1022610
CONTRACT CONTRACTOR										SHEET 1		rensing:	ton Expres	sway 10LE DH-	6D

ACTUAL CASING SAMPLER	11444 5 ER T KE COOF O. D. D.	NSIN RDIN	NGTON EXI ATES (N) D 7/8 in in BLOWS SAMPLI	1,058,49 ATE STA I. D. 2: I. D. 1: ON ED in	G - S - - - - - - - - - - - - - - - - -	DEPARTMENT OF EOTECHNICAL E SUBSURFACE UNOFF	ENGINEERIN EXPLORAT ICIAL L DATU DATE ER-CASING ER-SAMPLEF	RTATION G BUREAU CION LOG CION	ST OFFSE SURF. EL DEPTH TO SEP-1955 HAMMER I	A 89+52 ET 92.5 ft LI LEV. 645.9 O WATER S FALL-CASING FALL-SAMPLER	SEE NOTE 18 in	
32	5.0	J80 R1	6 12 7	18 24		(26.50) Run a Broke REC.	#1 Drilled fro en 57" 95%				(M-PL)	
•	BOTTOM OF HOLE AT 31.50 ft											
			DATE	TIME	HOI	DEPTH ft LE CASING	WATER	ARTESIAN HEAD HEIGH ABOVE GROU	IT WATE			
			30-Sep-55	15:00	31.	50 26.50	9.00					
and esting access to presented the informal of the market in the market and the market acceptance and the market acceptance and the market acceptance acce	mate potential to the second in go mation to the second in	urpos ame ood fa repre at the	es. It is madinformation and it. By the inserts only a	de availab available t nature of t a small fra olation be	ole so that to the Stat the explora ction of the tween dat	ed for design users may have e. It is ation process, e total volume a samples may	SOIL & F REG GE ENGIN DATE AI RESIDEI STRUCT	PPROVED NT ENGINEER URE NAME	UNOFFIC	B.I.N.	1022610	
CONTRA	ACT _		CONTE	RACTOR			SHEET	Street over Kensi 2 OF 2	ington Expres	sway 10LE DH-	6B	

PSN REG	ION 5		. В(ORNI	UM _	18	-	STATE OF I DEPARTMENT OF GEOTECHNICAL ENG SUBSURFACE EX	FRANSPORT SINEERING I PLORATIC	BUREAU ON LOG		HOLE LINE STA	DH-W13 Baseline 88+93	
PIN		/ENIOIA	ICTC) N F	VDDE	CCVV		UNOFFIC	IAL LO	G	-		295 ft LEF	Т
	UAL CO							ECTION I (E) 429,694.190	DATUM	NAD2	7	SURF. ELEV DEPTH TO V	V. <u>652.66</u> VATER <u>SE</u>	E NOTE
		. .	7 /0 •		DATE			14-NOV-1955	DATE F		15-NOV			
CASI	ing o. Pler o.		7/8 ir ir		I. D. I. D.	2 3 1 3		in WT OF HAMMER- in WT OF HAMMER-		300 300	lb lb	HAMMER FAL		18 in 18 in
≠	ш _ بي		F	RI OV	VS ON									
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	12 1 18	۱	IOIST. CONT. (%)		DESC	CRIPTION	I OF SOII	L AND ROCK		
6	0.0			12		24		(0.00) Gray Br	own SAND	, Some S	Silt			(M-NPL)
9														
4														
6	<u> </u>													
8	5.0	J223	3											
10	┡ -	0220		3				(6.00) Brown S	SII T . Some	Clay. Tr	ace Sand	d And Fine G	 ravel	
56	<u> </u>	-						(0.00) 2.0	,, , , , , , , , , , , , , , , , , , , ,	, c.a.y,	ass same			(: =)
58	<u> </u>													
53	 	-												
67	10.0	J224	12				. — . — -							
110	 			20										
98 91	<u> </u>	1												
82	<u> </u>													
77	15.0													
53	<u> </u>	J225	5	8				(15.00) Gray SI	LT , Some (Clay, Trad	ce Sand	And Fine Gra	vel	(M-PL)
52	<u> </u>													
57	<u> </u>	-												
76	├ -	-												
90	20.0	J226	5			\dashv								
32	⊢ –	<u> </u>		7										
					1									
37														
44		_												
44 51	25.0	-												
55 The and according the of the	e subsurfa d estimate cess to the sented in informatio	purpose same good factorial same same good factorial same same good factorial same same same same same same same same	ses. I inforn aith. I esents e site.	t is m nation By the s only Inte	nade av n availa e natur / a sma rpolatio	vailabi able to re of th all frac on bet	le so to the She exportion of the export	ained for design that users may have State. It is oloration process, of the total volume data samples may red.	DRILL RIG SOIL & RO REG GEOT ENGINEE DATE APP RESIDENT STRUCTUI	CK DESC FECHNICA ROVED ENGINE	CRIPTION AL U	N <u>R. Zemla</u>	AL LOG	

SM 282 PSN		2 144	14	R/	OBN	LINA	18		DED	STATE OF	NEW YOR			HOLE D	\∐_\\/13	
REG		5	+-+		OHIN	OIVI .		_	GEOTE	ECHNICAL EN	IGINEERIN	G BUREAU		LINE B		
COU	NTY		RIE						200000000000000000000000000000000000000	SURFACE E			• =	STA 8	8+93	
PIN								_		JNOFFI	CIAL L	OG	® "	OFFSET 2		T
									ECTION		D.4.T.I.	NA NADO		SURF. ELEV.		E NOTE
ACT	UAL (JOC	KUIN	AIE	5 _(058,5 E ST			<u>29,694.190 </u>	DATU	M <u>Nad2</u> Finish	<u>15</u> -NOV-	DEPTH TO WAT	IER SE	E NOTE
CASI	NG	O. E) . 27	7/8 i ı	n	I.I		_		<u>v-1933 </u>		300		-1933 HAMMER FALL-C	CASING	18 in
	PLER				n	1. 1				T OF HAMMEI				HAMMER FALL-S		18 in
CASING BLOWS/ft	DEPTH # BELOW		0)	0 6	6	VS OPLER		MOIST. CONT. (%)						AND ROCK		
26	25.	0	J227	5	7				(25.	00) Gray S	SILI, Som	e Clay, Tra	ce Sand A	and Fine Gravel		(M-PL)
20		-			′											
29																
35	_															
48																
		\bigcap														
53	30.		J228	2					1							
					2											
						-	1		-	BOTT	OM OF HO	DLE AT 32.	00 ft			
			ı	Flint-i	Lime	stone	e rock	s, seam	ed and v	very hard, er	ncountered			FILLED WITH		
				D	ATE		TIM			DEPTH ft		ARTE HEAD F		FILLED WITH WATER AT		
				451	.		45.		HOLE	CASING	WATER	ABOVE C	ROUND	END OF DAY	<u>Y</u>	
				15-1	Nov-	55	15:	JU	32.00	30.00	NONE					
			info				hove		tained for		DDILL D	IG OPERA	TOP			

SOIL & ROCK DESCRIPTION R. Zemla
REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG
DATE APPROVED
RESIDENT ENGINEER
STRUCTURE NAME B.I.N.

SHEET 2 OF 2

HOLE DH-W13

CONTRACT _____ CONTRACTOR

SCAI	ON NTY JECT LED C	5 5 5 N 00	RIE 512.36 IY RO PRDINA	6.122 UTE ATES	2 33, E 6 _(l	N) 1,0 DAT I. I	DAK ⁻ 058,3 E ST D. A	 	GEOTE SUBS P UTE 198 (E) 42 15-SE in W	ARTM ECHN SURF RE 3 29,78 P-19 T OF	MENT OF NICAL E FACE E LIMI 39.170 99 HAMME	R-CASING	RTATION G BUREAU ION LOG _OG MNAD2 E FINISH _	27 15-SEP- Ib	LINE STA OFFSET SURF. ELEV DEPTH TO W 1999 HAMMER FAL	/ATER SEE	NOTE in
CASING SELOWS/ft PA	DEPTH ft BELOW		SAMPLE 0.0		_	NS OPLER	N in	MOIST. CONT. (%)		T OF	НАММЕ	R-SAMPLEF			HAMMER FAL	L-SAMPLER	in
	0.0			6	12	18	24					alt CONCRI Sandy Angi		ET			<i></i>
		_	J1	10	27	10		9%	(1.	50)	Gray I	Brown Fine	Gravelly S	AND,Silty	,	. — — — — —	(M-NPL)
	_		J2	9	9	13		7%	(3.	.00)	Gray I	Brown Fine	Gravelly S	AND ,Silty	Clayey		(M-LPL)
	5.0		J3	2	5	6		9%	-								
			J4 R1	15	82			9%	- ₍₇	(00)	Run #	1 Drilled fro		8'0" I IMF	STONE		
									134 mete cord Plar	ns.		BL. TUBE OM OF HO		0 ft	FILLED W	ІТН	J
				С	ATE		TIM		HOLE		ASING	WATER	HEAD H ABOVE G	HEIGHT	WATER A	AT	
					Sep-9 Sep-9		10:4	_	8.00		7.00 0.00	1.00 2.10			NO NO		
and acce pres the of th	estima ess to t eented informa e mate	ate the in g atio eria	purpos same good fa n repro l at the	ses. infori aith. esent e site	It is m mation By the ts only . Inte	nade a n ava e natu y a sn erpola	availa ilable ure of mall fr tion b	ble so to the the exp action o	tained for that users State. It coloration of the tota data sar red.	s ma is proc al vol	y have ess, lume	SOIL & F REG GE ENGIN DATE AI RESIDEI	IG OPERA' ROCK DES OTECHNIC EER PPROVED NT ENGINE URE NAME	CRIPTION CAL PR	R.N.SCHN J.A.DENN ELIMINAF	EE	

SHEET 1 OF 1

CONTRACT

CONTRACTOR

HOLE FH-X-3

PSN PSN REGI		444 5	_ В	ORN	UM _	53	_	DEPARTMENT OF GEOTECHNICAL EN	GINEERING	BUREAU		HOLE LINE	DH-3B Baseline	
COU	NTY _	ERIE					_	SUBSURFACE EX			=		81+61.5	
	IECT -	KENIGII	VICTO	JVI E.	VDDE	2614	_ //\	UNOFFIC ECTION I	JAL LU	u		 OFFSET SURF. ELEV 	<u>71 ft LEF</u> . 645.02	<u>T</u>
	_							(E) 429,517.380	DATUM	NAD2	7	DEPTH TO V		EE NOTE
					DATE			10-OCT-1955	DATE F			T-1955		
CASII	NG O PLER O		7/8 iı iı		I. D. I. D.			in WT OF HAMMEF in WT OF HAMMEF		300 300	lb lb	HAMMER FAL		18 i 18 i
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.			VS ON LER in	, I	MOIST. CONT. (%)		DES	CRIPTION	I OF SO	IL AND ROCK		
	0.0		6	12	18/	24		(0.00) Brown	SILT , Some	Fine Sa	nd And	Clay, Trace G	ravel	(M-PL)
11														
27														
48														
65		-												
72	5.0	J120	12			\dashv								
66		-		13										
63														
64		-												
78		_												
110	10.0	J121	7											
67		-		15										
95		_												
117	L -													
172														
189	15.0	14.00	7						n -	OI				
72		J122		9				(15.00) Gray S	ili, Some	Ciay, Trac	e Sano	And Graver		(M-PL)
83														
92	L _													
124														
150	20.0	11.55												
77	L _	J123	2	4										
67	_													
92														
70														
90	25.0]												
The and accepted the look	estimate ess to th sented in informat ne mater	e purpos e same good fa ion repr ial at the	ses. I inforr aith. I esent e site.	t is mation mation By the s only Inte	nade av n availa e natur / a sma rpolatio	vailal able e of all fra on be	ble so to to the s the exp action o etween	ained for design that users may have State. It is ploration process, of the total volume data samples may	REG GEO ENGINES DATE APP	OCK DESC TECHNICA ER PROVED	CRIPTIO AL L	N R. Zemla	AL LOG	
	be indica								STRUCTU Best Street	RE NAME		n Expressway	B.I.N	1022609
CON	NTRAC1	-	,	CONT	TRACT	-OB			SHEET 1		ะเอเเนูเ0	ıı ∟xpressway H∩	LE DH-3	DD.

SM 282 PSN	E 12/02	144	B	ORNL	IM	53		DEP	STATE O	F NEW YOR			HOLE	DH-3B		
REG		5						GEOTE	ECHNICAL E	NGINEERIN	G BUREAU			Baseline		
COU	NTY _	ERIE							SURFACE E U NOFF I					81+61.5		
PIN	JECT H	∕ENISI	NGTO	JN E	YDDE		v c		T	CIAL L	UG		OFFSET SURF. ELEV.	71 ft LEF	<u> </u>	
									29,517.380	DATU	M NAD2		DEPTH TO W		E NOT	E
						STAR			T-1955		FINISH _	13-OCT				
CASII			7/8 ii		I. D				T OF HAMME		300		HAMMER FALL		18	in :
	PLER O.			n	I. D			in W⊺	T OF HAMME	R-SAMPLER	₹ 300	lb	HAMMER FALL	-SAIVIPLER	18	in
CASING BLOWS/ft	DEPTH # BELOW SURFACE	SAMPLE NO.		BLOW Sampi			DIST.									
ASII OW	FI 기를	AAS				C(ONT. %)			DE	SCRIPTIO	N OF SOIL	AND ROCK			
2 🛮	2 B S	Ŋ	6	/	18	7	,,,,									
	25.0	J124									e Clay, Tra				(\	M-PL)
50	<u> </u>	R1						(25.	# Run (50. Broke		om 25'6" T	o 30'6" R	OCK , Seame	ed And		
											,					
		1														
		-														
	30.0	-														
		ļ	.1			!		ļ	BOTT	OM OF HO	DLE AT 30.	50 ft				
			_	\ATE		TIME			DEPTH ft		ARTE		FILLED WI			
			ט	DATE		TIME		HOLE	CASING	WATER	HEAD H ABOVE (WATER A			
			13-	Oct-5	5	15:00		30.50	25.50	24.00						
					_											
The	subsurfa	ace info	ormatio	on sho	own h	ere was	obt	ained for	design	DRILL R	IG OPERA	TOR				
and	estimate	purpo	ses. I	It is m	ade a	vailable	so t	hat user	s may have				R. Zemla			
	ess to the sented in								ıs process,		OTECHNIC		NOFFICIAI	I OC		
the	informati	on repi	resent	ts only	a sm	all fract	ion c	of the tota	al volume	ENGIN DATE A	eer Pproved	U	NUTFICIA	LUU	<u> </u>	
of th	ne materi	aı at th	e site.	. Inter	rpolati	on betv	veen	data sai	mples may		NT ENGINE					

RESIDENT ENGINEER

Best Street over Kensington Expressway
SHEET 2 OF 2 HOLE DH-3B

1022609

B.I.N.

STRUCTURE NAME

not be indicative of the actual material encountered.

CONTRACTOR

CONTRACT

PSN PSN REGIO	114 ON _5		ВО	RNUM	60		DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING (PLORATIC	BUREAU ON LOG		LINE	PH-1A Baseline 82+00	
PIN							UNOFFIC	CAL LO	G	_	OFFSET	82 ft LEFT	
	IECT <u> </u>						ECTION I (E) 429,556.420	DATUM	NAD27	 7	SURF. ELEV DEPTH TO V		E NOTE
				DA	TE ST	ART _	13-OCT-1955	DATE F	INISH _	18-OCT	Г-1955		
CASIN	IG O. LER O.		7/8 in in		l. D. 2 l. D.		n WT OF HAMMER n WT OF HAMMER		300	lb lb	HAMMER FAL		18 i i
							TO TIAMMEN	OAMI EEIT			TIAMMETTI AL	L OAMI LLII	·
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		/ /	Rin	MOIST. CONT. (%)		DES	CRIPTION	OF SOII	L AND ROCK		
_	0.0		Ĭ					nples Taker n Cased Pro					
3		1					2.5 11101	i Gaseu Fic	bbe Hole				
7		-											
22		1											
35													
92	5.0												
		1											
106		1											
118		1											
118		-											
155		_											
178	10.0												
182													
218													
		1											
234		1											
280		4											
282	15.0	4											
400													
370													
192													
	<u> </u>												
190		1											
245	20.0	1											
181		-											
170		1											
127													
116													
	 25.0	R1				<u> </u>		Drillod from		- 76'E" -	000K -505	od Broken	
100							, ,	1			noor, seam	eu, broken	
							ained for design hat users may have	DRILL RIG			N R. Zemla		
acce	ss to the	same	informa	ation a	vailable	to the S	State. It is ploration process,	REG GEO	TECHNIC/	٩L		1100	***
the ii	nformatio	on repre	esents	only a	small f	raction c	of the total volume data samples may	ENGINEE DATE APP		U	INOFFICIA	L LUG	<u> </u>
	e materia pe indica							RESIDENT	ENGINE			D.L.	
								STRUCTU	ne NAME			B.I.N	
CON	ITRACT			ONTRA	CTOE	,		SHEET 1	OF 2		HO	LE PH-1	Λ

SM 282	E 12/02					STATE OF N	EW YORK			_			
PSN	114	44	BORNUM	60	DE	PARTMENT OF THE		TATION		HOLE	PH-1A		
REGI	ON 5				GEC	TECHNICAL ENGI	INEERING	BUREAU		LINE	Baseline		
COU	NTY F	RIE			SU	BSURFACE EXF	PLORATIO	ON LOG	=	= STA	82+00		
PIN	···· <u> </u>					UNOFFICI	$\Delta I I C$)G	# =		82 ft LE	ET	
	IECT V	LNCI	JOTON EVDI		CECTIO				**				
			NGTON EXPE							SURF. ELEV			
ACIL	JAL CO	OKDIN	ATES (N) 1			429,556.420	DATUM			DEPTH TO W	AIER _	SEE NOTE	<u></u>
			DA	TE START	13-C	OCT-1955	DATE F	Finish $_$	18-OC	T-1955			
CASI	NG 0.1	D. 2	7/8 in I .	D. 2 3/8	in	WT OF HAMMER-C	CASING	300	lb	HAMMER FAL	L-CASING	18	in
SAMP	LER O.	D.	in I.	. D.	in	WT OF HAMMER-S	AMPLER		lb	HAMMER FAL	L-SAMPLER	t	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS (SAMPLE) 0 6 12 1		NT.		DES	CRIPTION	N OF SOI	IL AND ROCK			
	25.0					And Hard	d						
						REC. 24	4" 100%						
,				•	•	BOTTOM	OF HOL	E AT 26.	50 ft				
		ſ				DEPTH ft		ARTE	CIANI	FILLED W	ти		

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
18-Oct-55	15:00	26.50	24.50	23.01		

DRILL RIG OPERATOR
SOIL & ROCK DESCRIPTION R. Zemla
REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG
DATE APPROVED
RESIDENT ENGINEER
STRUCTURE NAME B.I.N.

CONTRACT _____ CONTRACTOR

SHEET 2 OF 2 HOLE PH-1A

PSN PSN REGI COU	ION _	444 5 ERIE	_ B	ORN	UM _	55	_	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	igineering XPLORATIO	BUREAU ON LOG		HOL			
PIN	_						— 	UNOFFIC	CIAL LO	G	- -	OFFSE	65 ft LEI	FT	
	JECT _ UAL C						<u>08.360</u>	SECTION I (E) 429,601.340	DATUM	NAD2	7		.EV. <u>644.32</u> O WATER S	SEE NOT	F
					DATE			06-OCT-1955	DATE F			T-1955	• <u> </u>		
CASII	NG C		7/8 i		I. D I. D			in WT OF HAMMER in WT OF HAMMER		300	lb		FALL-CASING	18	ir
				n			3/8	in WT OF HAMMER	1-SAIVIPLEN	300	lb	HAIVIIVIEN	FALL-SAMPLER	18	ir
CASING BLOWS/ft	DEPTH # BELOW SUBFACE	SAMPLE NO.	0	6	/	n 18	MOIST CONT. (%)		DES	CRIPTION	OF SO	IL AND RO	CK		
	0.0		6	12	18	<u> 24</u>		(0.00) Brown	SILT , Some	Fine Sa	nd And	Clay		(1)	Л-PL)
5															
27	L -														
44															
53															
33															
43	5.0	J125	5 5					-							
31		_		5											
28															
68															
								(8.00) Red Gi	ay SILT, S	ome Clay	, Trace :	Sand And C	Gravel	<u> </u>	/I-PL)
90		-													
116	10.0	J126	12				L	_							
62		0120) ' ⁻	18											
112															
88		-													
89		_						(14.00) Grav B	rown SILT ,	Some Fir	ne Sand	Trace Cla	v And Fine	_{(M}	i-LPL)
98	15.0	140-					L	Gravel	,			,	, ,	(· _· _,
80		J127		4											
112															
147	<u> </u>														
175															
180	20.0						L								
100		J128	3	3											
100		\dashv						(22.00) Gray S	ILT , Some	Sand, Gra	avel And	d Clay		· _{(N}	/-PL)
90	<u> </u>														
84															
65	25.0														
		·	<u> </u>	L .	Щ				DDU L BIS						
								ained for design that users may have	DRILL RIG			N R. Zen	nla		
								State. It is ploration process,	REG GEO	TECHNIC	AL			******	
the	informa	tion rep	resent	s only	y a sm	all fr	action (of the total volume	DATE APP		· ·	JINUFFIC	HAL LOG		
	ne mate be indic							n data samples may red.	RESIDENT	ENGINE				,	
									STRUCTU Best Stree			n Expressv	B.I.N.	102260)9
CON	NTRAC	т		CON.	TRAC	TOD			SHEET 1			L	ĬÖLE DH-	5B	

CASIN	114 ON 5 NTY E	ERIE (ENSII ORDIN D. 2	NGTC	i <u>(N</u>	KPRE	SSV 058,1 E ST/	- - VAY, S	GEOTE SUBS ECTION (E) 42 06-OC in W	ARTMENT OF ECHNICAL EI BURFACE E JNOFFI	NGINEERING XPLORAT CIAL L DATU DATE R-CASING	RTATION G BUREAU ION LOG OG MNAD: E FINISH _ 300		LINE STA OFFSET SURF. ELEV DEPTH TO V	82+45.5 65 ft LEF . 644.32 VATER SI		in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	/	LER i	in 18	MOIST CONT. (%)			DE	SCRIPTIO	N OF SOII	L AND ROCK			
77	25.0	J129	20	26				(25.	50) Run # Broke		om 26'6" 1		Clay	ed And	(M	I-PL)
	30.0	-							ВОТТ	OM OF HO	DLE AT 30	.50 ft				
			D	ATE		TIM	E		DEPTH ft		HEAD I	ESIAN HEIGHT	FILLED W	AT		
			10-0	Oct-5	5	15:0	00	30.50	CASING 26.50	10.00	ABOVE (GROUND	END OF D	DAY		
and acce pres the i of th	estimate ess to the sented in information	purpose same good factorial same same good factorial same good fac	ses. It inforn aith. E esents e site.	t is ma nation By the s only Inter	ade a n avai e natu r a sm rpolat	availa lable ire of nall fra ion b	ble so to the the ex action etweer	State. It ploration of the tota n data san	s may have is	SOIL & F REG GE ENGINI DATE AI RESIDEI	OTECHNIC	CAL U	N R. Zemla	L LOG	102260	9

CONTRACTOR

CONTRACT

Best Street over Kensington Expressway
SHEET 2 OF 2 HOLE DH-5B

SM 282	E 12/02	44	BORN	NUM	62_	DEPARTMENT OF			<u>_</u>	HOLE	PH-3A	
REG						GEOTECHNICAL ENG SUBSURFACE EX				LINE STA	Baseline 83+24	
PIN	INIT _	RIE				UNOFFIC			=	_	48 ft LEFT	•
					SSWAY, S		D 4 T 1 1 1 4	NADO		SURF. ELEV		ENOTE
ACI	UAL CO	ORDINA	AIES _		8,089.850 START	(E) 429,679.250 05-OCT-1955	_ DATUM DATE F	<u>NAD27</u> INISH	<u>/</u> 05-OCT		VATER SE	E NOTE
CASI	NG O. PLER O.		7/8 in in		2 3/8	n WT OF HAMMER	-CASING	300	lb	HAMMER FAL HAMMER FAL		18 in in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		WS ON PLER in	MOIST.		DESC	CRIPTION	OF SOIL	. AND ROCK		
CA:			0 6 1	12 1 2 18				_				
	0.0	J113 J114			 	(0.00) Brown E (0.42) Yellow I	Black SILT , Brown SILT	, Some S	and, Tra	ce Clay		- <u> </u>
		-										
		-										
	5.0	-				(5.00) No Sam						
110 94						Hole Pr	ogressed A	s A Cased	d Probe H	Hole		
80												
80		-										
85	10.0	-										
194		-										
165												
120												
117	15.0	-										
95		-										
146		-										
150 152		-										
126	20.0											
75												
60												
110	_											
214	25.0											
and acc pres the of th	l estimate ess to the sented in information he materia	purpose same i good fa on repre al at the	es. It is information ith. By the sents on site. Int	made av on availa he naturo ly a sma erpolatio	railable so to able to the S e of the exp all fraction o	oloration process, of the total volume data samples may	REG GEOT ENGINEE DATE APP RESIDENT	CK DESC ECHNICA R ROVED ENGINEI	CRIPTION AL U	I R. Zemla NOFFICIA	L LOG	
	NTD 4 0=			ITB 4 0-	·00		STRUCTUI			110	B.I.N.	Λ
CO	NTRACT		CON	ITRACT	OR		SHEET 1	OF 2		HO	LE PH-3	4

SM 282							TE OF NEW YORK			<u> </u>	D			
PSN			BORN	JM <u>62</u>	_		NT OF TRANSPOR		_	HOLE	<u>PH-3A</u>			
REGI	I ON _5				_		AL ENGINEERING	-		LINE	_Baselir	ne		
COU	NTY E	RIE					CE EXPLORATI			STA	83+24			
PIN					_	UNO	FFICIAL LO)G		OFFSET	48 ft I	EFT		
PRO	JECT K	ENSIN	IGTON EX	(PRESS)	WAY, S	ECTION I			20000	SURF. ELEV				
ACT	JAL CO	ORDIN	ATES _(N	J) 1,058,0	89.850	(E) 429,679.	250 DATU	M NAD	27	DEPTH TO V	VATER	SEE	NOTE	
				DATE ST	ART _	05-OCT-1955	DATE	FINISH	05-OC	T-1955				
CASI	NG O.	D . 27	7/8 in	I. D. 2	2 3/8 i	n WT OF HA	MMER-CASING	300	lb	HAMMER FAL	L-CASIN	G 1	18	in
SAME	PLER O.	D.	in	I. D.	i	n WT OF HA	MMER-SAMPLER		lb	HAMMER FAL	L-SAMPL	.ER		in
CASING BLOWS/ft	PTH ft LOW RFACE	SAMPLE NO.	BLOW SAMP		MOIST. CONT.		DES	SCRIPTIO	N OF SO	IL AND ROCK				
C.A.	DEP BEL SURF	SA_	0 6 12	12 18 18 24	(%)									
	25.0	R1					un #1 Drilled fro	m 25'0" 1	Го 26'6"	ROCK, Seam	ed, Brok	en		
						Α	nd Fractured							
						R	EC. 16" 88.99	%						
						В	OTTOM OF HO	LE AT 26	.50 ft					

Augered ahead of casing from 0 to 5 feet. Samples 113 and 114 obtained from auger.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
05-Oct-55	15:00	26.50	25.00	7.50		

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG

DATE APPROVED
RESIDENT ENGINEER
STRUCTURE NAME
B.I.N.

CONTRACT _____ CONTRACTOR

SHEET 2 OF 2 HOLE PH-3A

PSN REGI COU	ION _	444 5 ERIE	_ B(ORN	UM _	59	_ _ _	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING (PLORATIC	BUREAU ON LOG		LINE STA	DH-9B Baseline 84+23		_
PIN PRO	JECT _	KENSI	NGTO	ON F	XPRF	SSV	_ VAY S	UNOFFIC ECTION I	JAL LU	u		 OFFSET SURF. ELEV 	48 ft LE		
	JAL CC			1)_ 6	N) 1,0	58,0	87.930	(E) 429,778.250	_ DATUM			DEPTH TO V			
CASII SAMF	NG O		7/8 ii	n	I. D.	. 2	3/8	03-OCT-1955 in WT OF HAMMER in WT OF HAMMER		300 300	04-OC	1-1955 HAMMER FAL HAMMER FAL		18 R 18	iı iı
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	0	6	/	n 18	MOIST. CONT. (%)		DES	CRIPTION	NOF SO	IL AND ROCK			
00	0.0		6	12	18	<u>24</u>		(0.00) Red Bro	own SILT ,	Trace Sar	nd, Clay	And Fine Gra	vel	(M-LP	L)
20		1													
56		-													
64		_													
70		4													
54	5.0	1													
11		J105	7	13											
58		1													
00		1													
86		-						(9.00) Yellow	Gray SILT ,	Some Cla	ay, Trac	e Sand And F	ine Gravel	(M-P	Ē)
78	10.0	J106	14												
60		4		14											
40															
41															
38															
30	15.0							(14.00) Red Gr	ay SILT , So	ome Clay	, Trace S	Sand And Fine	Gravel	(M-P	Ē)
	13.0	J107	2												
33				2											
21		-													
27		_													
28															
27	20.0						L								
23		J108	2	3											
		1													
25	- -	1													
155	<u> </u>	1													
255		<u> </u>					L 								
209	25.0	R1						(24.33) Run #1	Drilled from	1 24'4" To	0 29'4"	носк , Seam	ied, Broken	l	
and acce pres the i	estimate ess to the sented in informati	e purpo e same good f ion repr	ses. I inforn aith. I resent	t is mation By the	nade av n availa e natur / a sm	vaila able re of all fr	ble so to to the S the exp action o	ained for design that users may have State. It is bloration process, of the total volume	DRILL RIG SOIL & RO REG GEO ENGINEE DATE APF	CK DESC FECHNIC FR	CRIPTIO	N <u>R. Zemla</u> JNOFFICIA	IL LOG		
of th		ial at th	e site.	Inte	rpolati	on b	etween	data samples may	RESIDENT	ENGINE					
			- 40						STRUCTU Best Street			n Expressway	B.I.N.	1022609	_
CON	NTRACT	-	,	CONT	[RAC]				SHEET 1		Ji ioniyi0	L LAPICSSWAY	LE DH-	QR	_

PSN REG COU PIN PRO ACT	JECT K	ERIE SENSII ORDIN D. 2	NGTO	6 <u>(</u> 1	XPRE	SSW 058,0 E STA		SECTIO 30 (E) 4 03-00 in W	PARTMENT OF FECHNICAL E SURFACE E UNOFFI	NGINEERIN EXPLORAT CIAL L DATU DATE	RTATION G BUREA FION LOC OG M NAI E FINISH 300	D2704-OCT	HOLE DH-S LINE Base STA 84+2 OFFSET 48 f SURF. ELEV. 64 DEPTH TO WATEF -1955 HAMMER FALL-CAS HAMMER FALL-SAM	eline 23 t LEFT 11.87 R SEE	E NOTE 18 18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOV SAMP	VS O	N in	MOIS CON (%)	эт. т.	TO TIAMME			· · · · ·	- AND ROCK	· cen	10	
	25.0								And H REC.	lard 56" 93.3	%					
		•	•	•				,	BOTT	OM OF HO	DLE AT 2	9.33 ft				
			D	ATE		TIM	IE -		DEPTH ft			ΓESIAN HEIGHT	FILLED WITH WATER AT			
			04-	Oct-5	55	15:0	00	29.33	24.33	WATER 8.25	ABOVE	GROUND	END OF DAY			

DRILL RIG OPERATOR

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG

DATE APPROVED
RESIDENT ENGINEER
STRUCTURE NAME
Best Street over Kensington Expressway

SHEET 2 OF 2

HÓLE DH-9B

CONTRACT _____ CONTRACTOR

PSN REG COU		1444 5 ERI		. B0	ORN	UM _	58	_ _	DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING (PLORATIC	BUREAU ON LOG		LINE	DH-8B Baseline 83+74.5	
PIN PRO	IFCT	KEI	NISIN	IGTO	JN E	YPRE	-881	 NAV S	UNOFFIC ECTION I	JIAL LO)G		OFFSET SURF. ELEV	3 ft LEFT	
								43.880		DATUM	NAD2	27	DEPTH TO V		EE NOTE
CASI	NG (). D.	2 -	7/8 ir	•	DATI		_	<u>05-OCT-1955</u> in WT OF HAMMER	DATE F	FINISH _ 300	05-OC	<u>T-1955</u> HAMMER FAL	I -CASING	18 i
	PLER (2	ıı om		1. 0			in WT OF HAMMER		300	lb	HAMMER FAL		18 i
<u>,</u> ,,,,,,,	# ~ !	ń "	Ц	E	BLOV	VS OI	N								
CASING BLOWS/ft	DEPTH # BELOW		NO.	S	AMP	LER	in	MOIST.		DES	CRIPTION	N OF SO	IL AND ROCK		
2 2		รู้ ซึ	, —	/	6		18	(%)							
	0.0			6	/ 12	/ 18	<u> 24</u>		(0.00) Red Br	own SILT , S	Some Cla	ay, Trace	Sand And Fir	ne Gravel	(M-PL)
20		4													
42															
51															
	-														
55	-	-													
54	5.0	1	109	9				L							
48			109	9	14										
56															
	<u> </u>														
57	<u> </u>	\dashv													
58		4													
72	10.0	,						L							
41		J	110	6	7				(10.00) Red Gr	ay SILT , So	ome Clay	, Trace S	Sand And Fine	Gravel	(M-PL)
41	·														
57	<u> </u>	\dashv													
66		_													
63															
60	15.0	,													
			111	5	_			<u> </u>	(15.00) Gray S	ILT , Some	Sand, Fir	ne Grave	el And Clay		(M-PL)
66					6										
67		_													
37	L .														
22															
	20.0														
26	20.0		112	2											
45					2										
49															
38		h	R1					 			n 22'5" T	o 27'5"	ROCK , Seam	ed And	
									Broken REC.	52" 86.7%					
	<u> </u>	\dashv													
	25.0	_													
									ained for design	DRILL RIG					
									hat users may have State. It is	SOIL & RO			N R. Zemla		
pres	sented	in go	od fa	ith. E	By the	e natu	ire of	the exp	oloration process,	ENGINE	ER	T l	JNOFFICIA	L LOG	
of th	information represents only a small fraction of the total volur he material at the site. Interpolation between data samples i be indicative of the actual material encountered.									DATE APP		FR			
not	pe indi	cative	of t	ne ac	tual i	mater	ıal en	counte	red.	STRUCTU	RE NAME	■		B.I.N	1022609
00	NTRAC	_				ΓRAC				Best Stree		ensingto	n Expressway	LE DH-8	D

_	E 12/02									W YORK			<u> </u>	511.65			
PSN	114		BC	RNUM	58_	_				RANSPORT			HOLE	DH-8B			
REG	I ON _5					_				NEERING I			LINE	Baselin	е		
COU	NTY _E	RIE					Secretaria de la composición del composición de la composición de la composición del composición de la composición de la composición del composición de la composición de la composición de la composición de la composición de la composición del composición del composición del composición del composición del composición del composición del composición del composición del composición del com			LORATIC			= STA	83+74.	5		
PIN								UNOF	-FICI	AL LO	G	*** 	OFFSET	3 ft LE	FT		
PRO.	JECT K	ENSI	NGTO	N EXPR	ESSV	WAY, S	ECTION	NΙ					SURF. ELEV	. 641.3	36		
ACT	JAL CO	ORDIN	ATES	(N) 1,	058,0	43.880	(E) 4	29,729.0	030	DATUM	NAD	27	DEPTH TO W	/ATER	SEE	NOTE	
				DAT	E ST	ART _	05-OC	CT-1955		DATE F	INISH	05-OC	T-1955				
CASII	NG O.	D. 2	7/8 in	I.	D . 2	2 3/8	in W	T OF HAI	MMER-C	ASING	300	lb	HAMMER FAL	L-CASING	à	18	in
SAME	PLER O.	D. 2	in	I.	D . 1	3/8	in W	T OF HAI	MMER-S	AMPLER	300	lb	HAMMER FAL	L-SAMPL	ER	18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	_	LOWS CAMPLER	in 18	MOIST. CONT. (%)				DESC	CRIPTIC	N OF SC	OIL AND ROCK				
	25.0 																
								B	OTTOM	OF HOL	EAL2/	.42 ft					

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
05-Oct-55	15:00	27.42	22.42	22.00		

SOIL & ROCK DESCRIPTION R. Zemla **REG GEOTECHNICAL** UNOFFICIAL LOG **ENGINEER** DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME 1022609 B.I.N.

Best Street over Kensington Expressway CONTRACT

HÓLE DH-8B SHEET 2 OF 2 CONTRACTOR

DRILL RIG OPERATOR

PSN			_ В	ORNI	JM _	56		STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	HOLE DH-6B
REGI		S ERIE						GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG	STA 83+26.5
PIN	NII	INIE						LINOTEIOIAL LOO	OFFSET 5 ft LEFT
	JECT K								IRF. ELEV. 641.68
ACT	UAL CO	ORDIN	ATES						PTH TO WATER SEE NOTE
CASII	NG O.	D . 2	7/8 iı		I. D.	STAR 2 3/		05-OCT-1955 DATE FINISH 06-OCT-19 N WT OF HAMMER-CASING 300 Ib HA	MMER FALL-CASING 18 in
	PLER O.		iı		I. D.				MMER FALL-SAMPLER 18 in
, #	س _ ہے	ш		BLOV	VS ON				
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S		LER ir	1 MC	OIST. ONT. (%)	DESCRIPTION OF SOIL AI	ND ROCK
	0.0		6	12	18/	24		(0.00) Yellow Brown SILT , Some Sand, Trace	Clay (M-LPL)
25		-							
117 79		1							
79 56									
50	5.0								
64		J115	9	13					
81									
70		_						(8.00) Red Brown SILT , Some Sand And Clay,	Trace Fine Gravel (M-PL)
97		-						(6.00) Neu Blown SILT, Some Sand And Glay,	Trace Fille Graver (IMFF L)
97	10.0								
73		J116	6	12					
75		-							
67		-						(13.00) Red Gray SILT, Some Clay, Trace Sand	A And Fine Gravel (M-PL)
55									
53	15.0	J117	1	2		+			
54 43									
27		1						(17.00) Gray SILT , Some Sand, Gravel And Cla	y (M-PL)
29									
29	20.0	J118	6						
36		10118		4					
40		-							
196		-							
192								- (04.60) - Dun #1.52:11-1 04:01 00:11-1	N. Coomed And
73	25.0	R1	rmeti	on ch	014/20 6	are ure	o obt	(24.50) Run #1 Drilled from 24'6" To 28'4" ROC	n, Seamed And
and acce	estimate	purpos same	ses. I inform	t is m natior	ade av n availa	/ailable able to	e so t the S	at users may have tate. It is SOIL & ROCK DESCRIPTION REG GEOTECHNICAL	
the	informatio	on repre	esent	s only	a sma	all frac	tion c	the total volume data samples may DATE APPROVED	OFFICIAL LOG
	be indica							RESIDENT ENGINEER STRUCTURE NAME	B.I.N. 1022609
COI	NTRACT		(СОИТ	RACT	OR		Best Street over Kensington Ex SHEET 1 OF 2	pressway HOLE DH-6B

SM 282			D.C.		- C		555	STATE OF N							
PSN	114		- BO	RNUM .	56	_		ARTMENT OF T ECHNICAL ENG				HOLE DH-6E			
REGI						_		SURFACE EX	_			LINE Baseli			—
COU	NIY <u>E</u>	RIE				_	NAMES AND ADDRESS OF THE PARTY	JNOFFIC			*** =	STA <u>83+26</u>			
PIN									IAL L	<i>)</i> G		OFFSET 5 ft L			
	JECT K											SURF. ELEV. 641			
ACTU	JAL COO	ORDIN	ATES					9,681.020	_	I <u>NAD</u>		DEPTH TO WATER	_SEI	E NOTE	
					E ST	_	05-OC			FINISH _	06-OC				
CASIN	-		7/8 in					OF HAMMER-		300	lb	HAMMER FALL-CASIN	-	18	in
SAMP	LER O. I) . 2	in	1. 1) . 1	3/8	in WI	OF HAMMER-	SAMPLER	300	lb	HAMMER FALL-SAMPI	LER	18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		LOWS O IMPLER 12 18	in 18	MOIST. CONT. (%)			DES	CRIPTIO	N OF SOI	L AND ROCK			
	25.0 							Broken REC. 4	6" 100%						
				,				BOTTO	M OF HOL	E AT 28	.33 ft				
						_		DEPTH ft		ARTI	ESIAN	FILLED WITH			

DATE	TIME	HOLE	CASING	WATER	HEAD HEIGHT ABOVE GROUND	WATER AT END OF DAY
06-Oct-55	15:00	28.33	24.50	21.93		

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG
DATE APPROVED RESIDENT ENGINEER
STRUCTURE NAME
B.I.N. 1022609

CONTRACT _____ CONTRACTOR

Best Street over Kensington Expressway
SHEET 2 OF 2 HOLE DH-6B

DRILL RIG OPERATOR

SM 282 PSN	E 12/02	144	ВС	ORNI	UM _ 5	57 <u> </u>	DEPARTMENT	OF NEW YORK OF TRANSPORT			HOLE	DH-7B	
REG	_						GEOTECHNICAL SUBSURFACE				LINE	Baseline	
COU	NIY <u>I</u>	ERIE						FICIAL LO		· =	STA OFFSET	83+46.5 98 ft RIGH	
	JECT H	KENSIN	NGTC)NE	XPRES	SWAY, S	ECTION I	3.6.27.33			SURF. ELEV		
						7,943.440		DATUM	NAD2	7		VATER SE	E NOTE
						START _	03-OCT-1955	DATE F		04-OC			
CASII			7/8 ir 				in WT OF HAMN		300	lb	HAMMER FAL		18 in
SAIVIE	PLER O.	D . 2	ir	1	I. D.	1 3/8	in WT OF HAMN	IER-SAMPLER	300	lb	HAMMER FAL	L-SAWPLEK	18 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	VS ON LER in	MOIST CONT.		DESC	CRIPTION	I OF SOI	L AND ROCK		
		6	6		/ ,	24							
3	0.0						(0.00) Yello	ow Brown SILT	, Some S	Sand			(M-NPL)
5		1											
6													
6		-											
5	5.0	14.04				_							
13		J101	1	6									
6							(6.00) Red	Gray SILT , So	ome Clay	, Trace S	Sand And Fine	e Gravel	(M-PL)
43													
45													
42	10.0												
		J102	4	10									
41				10									
52													
67		1											
69		1											
67	15.0	J103	2										
49		-		3									
45		-											
37													
40		-											
41	20.0	J104	5			_	(20.00) 675	/ SILT , Some :	Sand And	V Eino C			(M-NPL)
26		10104		5			(20.00) Gray	, OILT, JUINE	Janu And	a i ille Gl	avei		(IVI-INF L)
33													
87	L _												
70		R1			\vdash	+		#1 Drilled from	23'5" T	o 25'3" F	ROCK , Seam	ed, Broken	
	25.0							Hard 2. 22" 100%					
The	L subsurfa	L ace info	rmatic	on sh	LL own hei	re was obi	ained for design	DRILL RIG	OPERAT	ΓOR			
and	estimate	purpos	ses. It	t is m	ade ava	ailable so	that users may have State. It is		CK DES	CRIPTIO	N R. Zemla		
pres	sented in	good fa	aith. E	By the	e nature	of the ex	oloration process, of the total volume	ENGINEE	R		INOFFICIA	L LOG	
of th	ne materi	al at the	e site.	Inte	rpolatio	n betweer	data samples may	DATE APP		FR			
not	pe indica	tive of t	ne ac	tual r	naterial	encounte	red.	STRUCTU	RE NAME	.		B.I.N	1022609
			_	· · ·						ensingtor	n Expressway		D
COL	NTRACT		(JUNT	TRACT(JK		_ SHEET 1	OF 2		HO	LE DH-7	D

SM 282	E 12/02						S	TATE OF NE	W YORK							
PSN	114	44	BC	RNUM	57 <u>57</u>	_		MENT OF TRA			=	= но	LE <u>DH-7B</u>			
REGI	ION _5	;						IICAL ENGIN		-	==		NE Baselir	ie		
COU	NTY E	RIE						ACE EXPL			=	<u> </u>	TA 83+46.	5		
PIN							UN	OFFICI <i>i</i>	AL LO	G		OFFS	ET 98 ft I	RIGHT	ſ	
	JECT	(FNSII	IGTO	N FXP	RESSI	NAY S	ECTION I						LEV. 642.			
	JAL CO					943.440		20 100	DATUM	NAD	27		O WATER		NOTE	
ACI	DAL CO	CITOII	AILS		TE ST		03-OCT-19		DATE F			T-1955	O WAILII	_OLL	INOIL	
		_			_	_				_				_		_
CASII	NG O.	D. 2	7/8 in	ı	l. D . 2	2 3/8 i	n WT OF	HAMMER-CA	ASING	300	lb	HAMMER	FALL-CASING	3	18	in
SAME	PLER O.	D. 2	in	I	l. D . 1	1 3/8 i	n WT OF	HAMMER-SA	AMPLER	300	lb	HAMMER	FALL-SAMPL	ER	18	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		LOWS AMPLE 12	Rin	MOIST. CONT. (%)			DESC	RIPTIO	N OF SO	IL AND RO	OCK			
	25.0 	R2 R3					(25.25) (26.25)	And Hard REC. 12' Run #3 Dr And Hard REC. 22'	"_1 <u>00%</u> rilled from "_100%	26'3" T	o 28'1"	· 	eamed, Brok eamed, Brok			
1								BOTTOM	OF HOLE	E AT 28.	.08 ft					

DATE	TIME		DEPTH ft		ARTESIAN	FILLED WITH WATER AT
DATE	IIIVIE	HOLE	CASING	WATER	HEAD HEIGHT ABOVE GROUND	END OF DAY
04-Oct-55	15:00	28.08	23.42	23.00		

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG

DATE APPROVED
RESIDENT ENGINEER
STRUCTURE NAME
B.I.N. 1022609

CONTRACT _____ CONTRACTOR

Best Street over Kensington Expressway
SHEET 2 OF 2 HOLE DH-7B

DRILL RIG OPERATOR

PSN REG COU PIN	ION 5	RIE		RNUM		V SI	STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX UNOFFICECTION I	GINEERING E (PLORATIO	BUREAU N LOG	Ī	LINE STA	DH-2A Baseline 82+55 33 ft RIGH	НТ				
CASI	UAL CO	DRDIN.		_(N) 1, DAT	058,010 E STAR D. 23/	.200 R T 8 i	(E) 429,609.050 07-OCT-1955 n WT OF HAMMER n WT OF HAMMER		NAD2` I NISH 300	7	DEPTH TO V	VATER SE	18 in				
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	SA 0 6	OWS OMPLER	in Co	OIST. ONT. (%)	DESCRIPTION OF SOIL AND ROCK										
	0.0	J119	0	12 10	27		(0.00) Red Bro	own SILT , S	ome Cla	y And Sa	and, Trace Fir	ne Gravel	(M-PL)				
50 58	5.0							nples Taken ogressed As		 d Probe I	 Hole						
55 56 47	10.0																
52 93 75 59																	
70 73 93	15.0																
97 71 67	20.0																
71		-															
69		R1			 			Drilled from	22'3" Ta	26'3" F	ROCK Seam	ed And					
30	25.0						Broken		££	,200 F	oon, seam	ou Allu					
and acce pres the of th	estimate ess to the sented in information	purpos same good fa on repre al at the	es. It is information in the inf	s made a ation ava the nationly a sr nterpola	available ilable to ure of the mall fract tion betw	e so the S the S e exp tion o ween	nined for design that users may have State. It is loration process, f the total volume data samples may ed.	DRILL RIG SOIL & RO REG GEOT ENGINEE DATE APP RESIDENT STRUCTUR	CK DESC ECHNICA R ROVED ENGINE	CRIPTION AL U	N R. Zemla	L LOG					
COI	NTRACT		cc	ONTRAC	TOP			SHEET 1	OF 2		НО	LE DH-2	Δ				

SM 282	E 12/02							STATE OF NEW YORK							
PSN	114	44	В	ORN	UM	61		DEPARTMENT OF TRANSPORTATION HOLE DH-2A							
REG	ION 5				_			GEOTECHNICAL ENGINEERING BUREAU LINE Baseline							
COU		RIE						SUBSURFACE EXPLORATION LOG STA 82+55							
	PIN							UNOFFICIAL LOC = SIA GETSS							
			1070		VDD5										
_								SECTION I SURF. ELEV. 641.72							
ACT	JAL CO	ORDIN	ATES	3 _(N) 1,0)58,C	10.200	<u>0 (E) 429,609.050 </u>	NOTE						
					DATI	E ST	ART _	07-OCT-1955 DATE FINISH 10-OCT-1955							
CASII	NG O. I	D. 2	7/8 iı	า	1. 0). 2	2 3/8 i	in WT OF HAMMER-CASING 300 Ib HAMMER FALL-CASING	18 in						
SAME	MPLER O. D. in I. D.						i	in WT OF HAMMER-SAMPLER Ib HAMMER FALL-SAMPLER	in						
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		AMP		in 18	MOIST. CONT. (%)								
	25.0														
			<u> </u>					BOTTOM OF HOLE AT 26.25 ft							
	Augered ahead of casing by hand from 0 to 5 feet. Sample 119 obtained from auger.														

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	I IIVI	HOLE	CASING	WATER	ABOVE GROUND	END OF DAY
10-Oct-55	15:00	26.25	22.25	22.00		

DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION R. Zemla **REG GEOTECHNICAL** UNOFFICIAL LOG **ENGINEER** DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N.

CONTRACT CONTRACTOR SHEET 2 OF 2

HOLE DH-2A

PSN REG COU	ION 5		В	ORNI	JM _	52		DEPARTMENT OF GEOTECHNICAL ENG SUBSURFACE EX	GINEERING (PLORATIC	BUREAU ON LOG		LINE STA	DH-2B Baseline 81+80			
	JECT K							UNOFFIC ECTION I (E) 429,535.020	JAL LU			OFFSET SURF. ELEV DEPTH TO V		EE NOTE		
CASI		D. 27	7/8 ir	1	DATE	ST <i>A</i>	ART _ 3/8	10-OCT-1955 in WT OF HAMMER in WT OF HAMMER		300 300	11-OCT lb lb	-1955 HAMMER FAL HAMMER FAL		18 in 18 in		
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S 0	AMP	/	n 18	MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK								
	0.0		<u> </u>	· 12	/ 18/	<u></u>		(0.00) Brown §	SILT , Some	e Sand, T	race Clay	y And Gravel		(M-LPL)		
27 28	5.0	J130														
39 42 55	10.0	J131	2	4				———(9.00)— Gray Br	own SILT ,	Some Cla	ay, Trace	Sand And G	 ravel	[M-PL]		
43 47 43 47	15.0			•												
51 53 81	13.0	J132	2	3				(17.00) Red Gr	ay SILT , So	 ome Clay	 , Trace S	and And Gra	vel	(M-PL)		
33 32 36	20.0	-						, ,		·				, ,		
50 46 72		J133	1	2												
84	25.0	R1						(23.92) Run #1 And Ha		n 23'11"	<u>Го 27</u> '7" ⁻	ROCK , Sear	ned, Broken			
and acco pres the of th	l estimate ess to the sented in information	purpos same good fa on repre al at the	ses. It inforn aith. E esents e site.	t is m natior By the s only Inte	ade a n avail e natui v a sm rpolati	vailal lable re of all fra ion be	ble so to to the s the exp action o etween	lained for design what users may have State. It is bloration process, of the total volume data samples may red.	REG GEOTENGINEED DATE APPRESIDENT STRUCTU	OCK DESC TECHNIC ER PROVED ENGINE RE NAME	CRIPTION AL U ER	N R. Zemla	B.I.N	1022609		
COI	NTRACT		_ (CONT	RAC	TOR			SHEET 1		on igion	HO	LE DH-2	В		

-	E 12/02		505				_		NEW YORK			<u> </u>	D			
PSN			BOH	NUM _	52	_		DEPARTMENT OF			_		<u>DH-2B</u>			
REG	I ON _5					_	-	EOTECHNICAL EN				LINE Baseline				
COU	NTY _E	RIE				_		UBSURFACE E		STA 81+80						
PIN								UNOFFI	CIAL LO	OFFSET 6 ft LEFT						
PROJECT KENSINGTON EXPRESSWAY, SE								ION I				SURF. ELEV	. 642.7	77		
								E) 429,535.020	DATUM	NAD	27	DEPTH TO V	VATER	SEE	NOTE	
				DATI				-OCT-1955	DATE F			T-1955				
CASII	NG O. I	D. 2	7/8 in	I. D). 2	3/8	in	WT OF HAMMEI	R-CASING	300	lb	HAMMER FAL	L-CASING	.	18	in
SAME	SAMPLER O. D. 2 in I. D. 1 3/8 in						in	WT OF HAMMEI	R-SAMPLER	300	lb	HAMMER FAL	L-SAMPL	ER ·	18	in
CASING BLOWS/ft	CONT. (%) BLOWS ON SAMPLER in 0 6 12 18 24 (%)								DESC	CRIPTIO	N OF SO	IL AND ROCK				
	25.0 							REC.	21" 47.8%							
								BOTT	OM OF HOLE	E AT 27	.58 ft					

Augered ahead of casing by hand from 0 to 5 feet. Sample 130 obtained from auger.

DATE	TIME		DEPTH ft		ARTESIAN HEAD HEIGHT	FILLED WITH WATER AT
DATE	IIIVIE	HOLE CASING		WATER		END OF DAY
11-Oct-55	15:00	27.58	23.92	22.50		

The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.

DRILL RIG OPERATOR

SOIL & ROCK DESCRIPTION R. Zemla

REG GEOTECHNICAL
ENGINEER UNOFFICIAL LOG

DATE APPROVED
RESIDENT ENGINEER
STRUCTURE NAME
Best Street over Kensington Expressway

SHEET 2 OF 2

HÓLE DH-2B

CONTRACT ____ CONTRACTOR

12	PSN	E 12/02		В	ORNI	JM	51		DEPARTMENT C					LE DH-1B				
PROLECT K-NSINGTON EXPRESSWAY, SECTION No.1058,050,000 (E) 429,485,020 DATE FINISH 11.0CT-1955 DATE FINI															<u>e</u>			
ACTIVAL COORDINATES NN 1,058,059,000 (E) 4/29,469,020 DATUM NADZT DEPTH TO WATER SEE NOTE DATE FINANT LT-CXT-1955 LT-CXT-1955 DATE FINANT LT-CXT-1955 DATE FINANT LT-CXT-1955 LT-CXT-1									UNOFF	ICIAL LO	G	=			FT			
Date State Column Colu																		
CASING C	ACIU	JAL CO	ORDIN	AIES														
12					1	I. D.	2 3/8	ī	n WT OF HAMME	R-CASING	300	lb	HAMMER			in in		
12	σ♯	±×⊒ CE∨#	щ					ст										
12	CASIN	DEPTH BELO' SURFA	SAMPI NO.	0	6	12 1	CO 8 (%	NT.	DESCRIPTION OF SOIL AND ROCK									
10	12	0.0							(0.00) Brown	n SILT , Some	Sand, T	race Cla	y And Fine	e Gravel		(M-LPL)		
40	30																	
1	51		-															
State	40																	
55 10.0 16 16 16 17 17 19 10 10 10 10 10 10 10	41	5.0	1124	5														
108	55		3134	3	16													
10.8	71		_															
92 10.0 54	129																	
54	108																	
81	92	10.0	J135	5			+-											
(12.00) Gray Brown SILT, Some Clay, Trace Sand And Gravel (M-PL 15.0	54				7													
68	81									Brown SILT ,	Some Cla	ay, Trace	e Sand An	d Gravel		(M-PL)		
15.0																		
38 J J J 36 2 2 2 50 50																		
52		15.0	J136	2	2		+-											
49		_	-		_													
45 20.0 J137 1 2 (20.00) Gray SILT , Some Clay, Trace Sand And Gravel (M-PL 47 41 41 41 41 41 41 41 41 41 41 41 41 41																		
J137 1 2 (20.00) Gray SILT , Some Clay, Trace Sand And Gravel (M-PL 41	49																	
2 47 41 90 28 25.0 R1 (24.25) Run #1 Drilled from 24'3" To 29'3" ROCK, Seamed, Broken The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. BILN. 1022609 Best Street over Kensington Expressway	45	20.0	1107	1				_		OII T - C	O		And C			- <u>(N</u>		
28 25.0 R1 (24.25) Run #1 Drilled from 24'3" To 29'3" ROCK, Seamed, Broken The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION R. Zemla REG GEOTECHNICAL ENGINEER UNOFFICIAL LOG DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N. 1022609 Best Street over Kensington Expressway	51		J13/	1	2				(20.00) Gray	SILT, Some (Clay, Tra	ce Sand	And Grav	eı		(IVI-PL)		
28 25.0 R1 (24.25) Run #1 Drilled from 24'3" To 29'3" ROCK , Seamed, Broken The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION R. Zemla REG GEOTECHNICAL ENGINEER DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N. 1022609 Best Street over Kensington Expressway	47	<u> </u>	-															
The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION R. Zemla REG GEOTECHNICAL ENGINEER DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N. 1022609 Best Street over Kensington Expressway	41		-															
The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION R. Zemla REG GEOTECHNICAL ENGINEER DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N. 1022609	90	<u> </u>	R1							t1 Drilled from		0 29'3"	<u>300k -</u> 2	amed Broke	 en			
and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. SOIL & ROCK DESCRIPTION R. Zemla REG GEOTECHNICAL ENGINEER DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME B.I.N. 1022609 Best Street over Kensington Expressway														Jamou, DioRe				
presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered. ENGINEER UNOFFICIAL LOG DATE APPROVED	and acce	estimate ess to the	purpos same	ses. I inforn	t is m natior	ade av n availa	ailable able to t	so t he S	hat users may have State. It is	SOIL & RO	CK DES	CRIPTIO	N R. Zer	nla				
not be indicative of the actual material encountered. RESIDENT ENGINEER STRUCTURE NAME B.I.N. 1022609 Best Street over Kensington Expressway	the i	informatio	n repre	esents	s only	a sma	all fractio	on o	f the total volume	ENGINEE	R		JNOFFI	CIAL LOG				
										STRUCTU	RE NAME	.			102	2609		
	CON	NTRACT		•	сомт	RACT	OR					ensingtor	n Express I	way HOLF DH	H-1B			

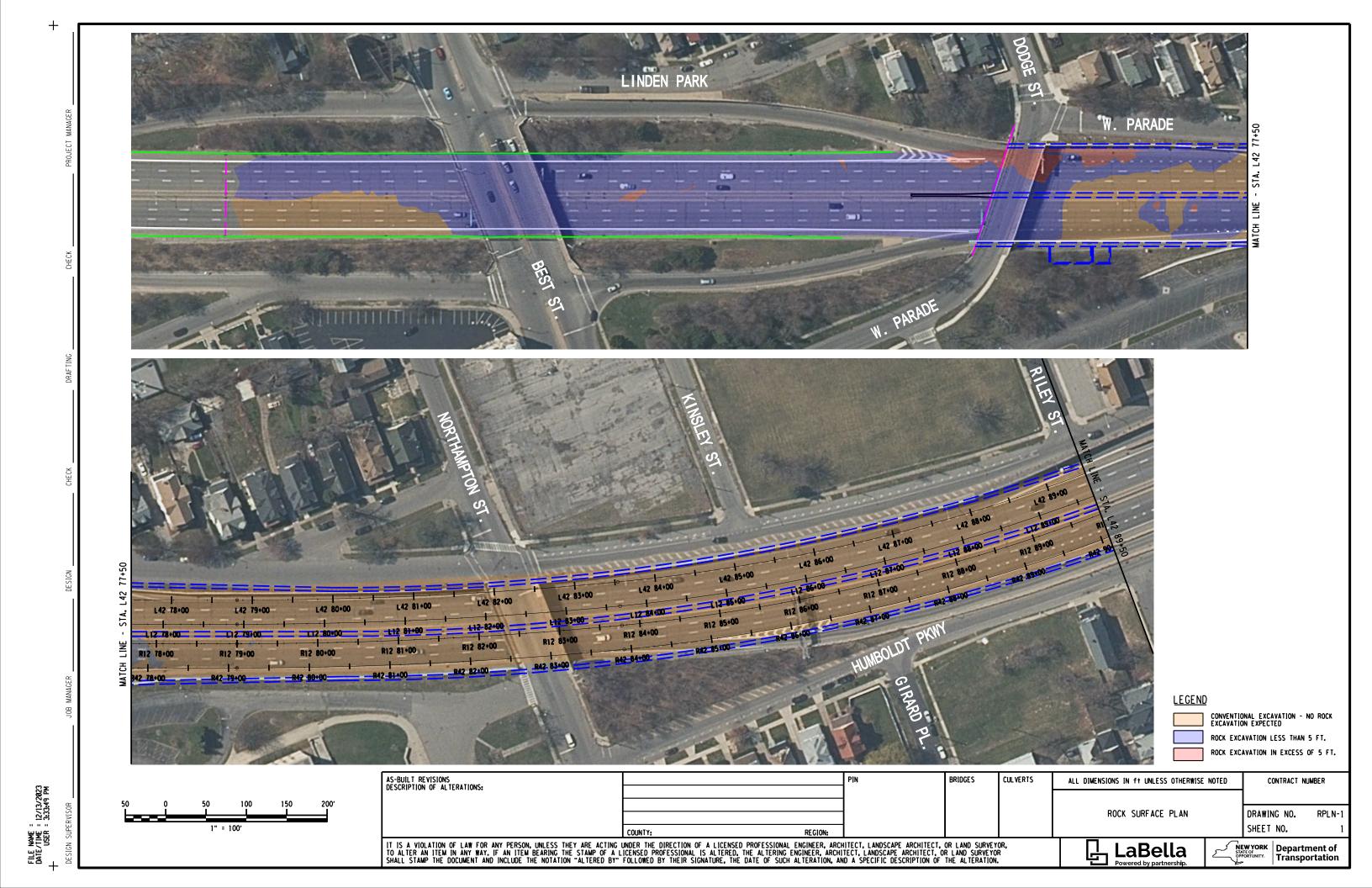
PSN REG COU PIN	ION 5 NTY E	RIE	-	DRNUM			GEOTI SUBS	ARTMENT OF ECHNICAL EN SURFACE E UNOFFI	NGINEERIN XPLORAT	RTATION == G BUREAU == ION LOG ==		HOLE DH-1B LINE Baseline STA 81+10 OFFSET 4 ft LEFT SURF. ELEV. 643.61			
	PROJECT KENSINGTON EXPRESSWAY, SECTION I ACTUAL COORDINATES (N) 1,058,050.000 (E) 429,465.020 DATUM NAD27											DEPTH TO WATER		E NOTE	—
					TE ST			T-1955			- 1-OCT-	_			_
CASI	NG O. I). 2	7/8 ir	ı I	D. 2	3/8	in W	T OF HAMMEI	R-CASING	300	lb I	HAMMER FALL-CASI	NG	18	in
SAME	PLER O. I) . 2	ir	n I	. D. 1	3/8	in W	T OF HAMMEI	R-SAMPLER	300	lb I	HAMMER FALL-SAM	PLER	18	in
CASING BLOWS/ft	6 12 18 24														
	25.0 And Hard REC. 46" 76.7%														
								BOTT	OM OF HO	LE AT 29.25 f	ft				
		Г						DEDTIL!		A DTECLA	NI.	EILLED WITH			
			D.	ATE	ТІМ	E		DEPTH ft		ARTESIA HEAD HEI		FILLED WITH WATER AT			
				· · · -			HOLE	CASING	WATER	ABOVE GRO		END OF DAY			
			11-0	Oct-55	15:0	00	29.25	24.25	22.00						

DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION R. Zemla **REG GEOTECHNICAL** UNOFFICIAL LOG **ENGINEER** DATE APPROVED RESIDENT ENGINEER STRUCTURE NAME 1022609 B.I.N. Best Street over Kensington Expressway HÓLE DH-1B

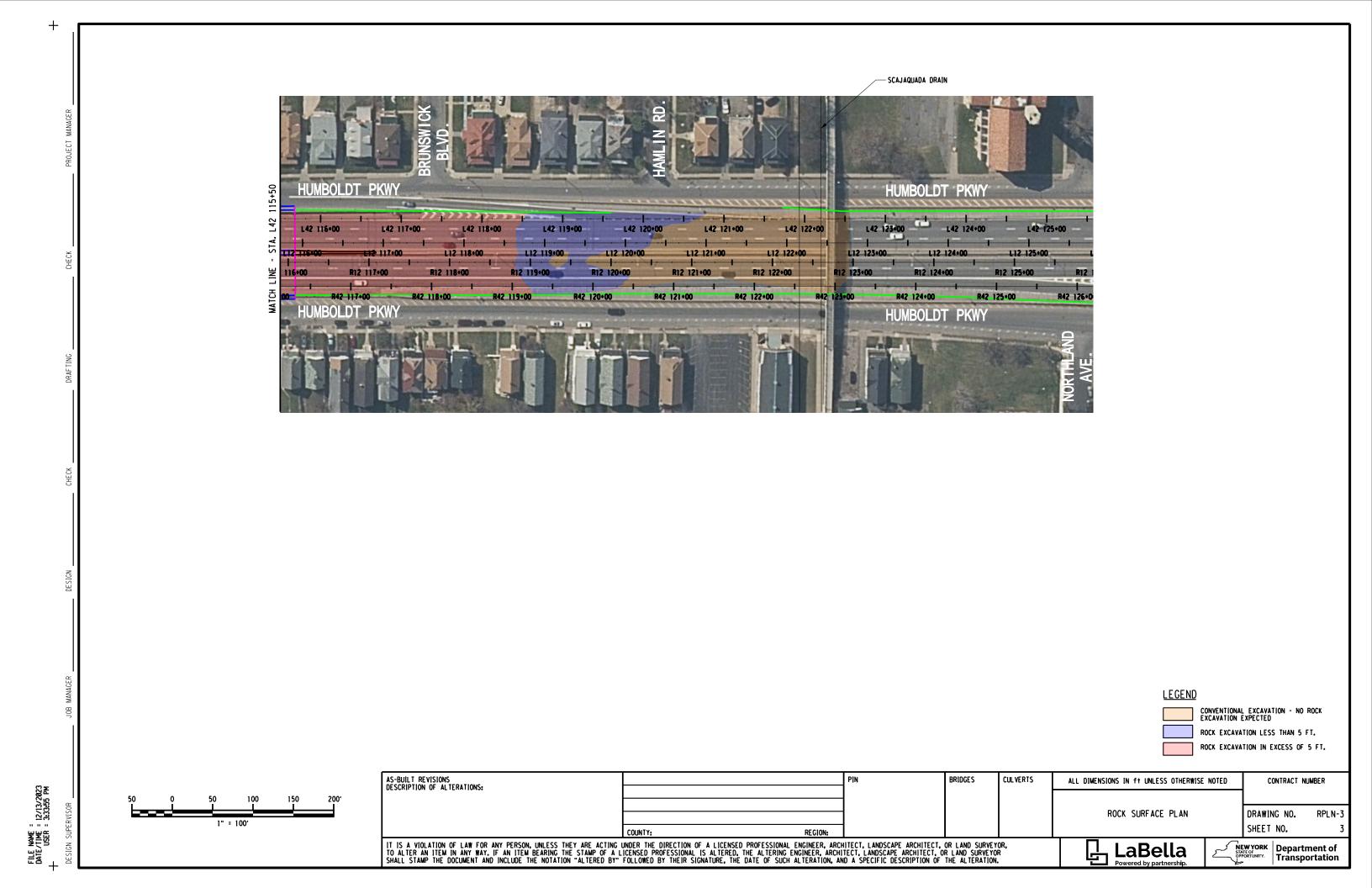
SHEET 2 OF 2

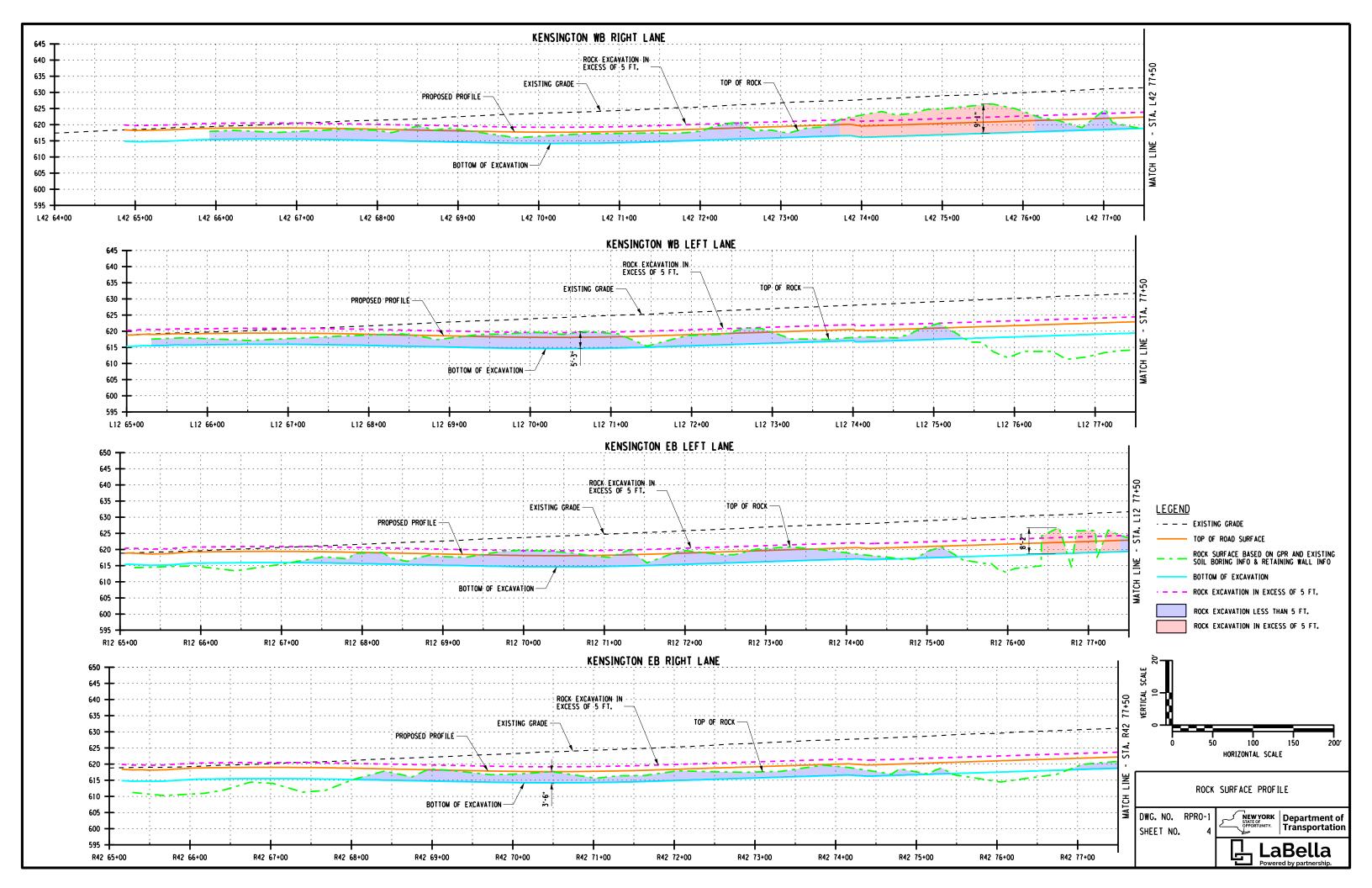
CONTRACT CONTRACTOR

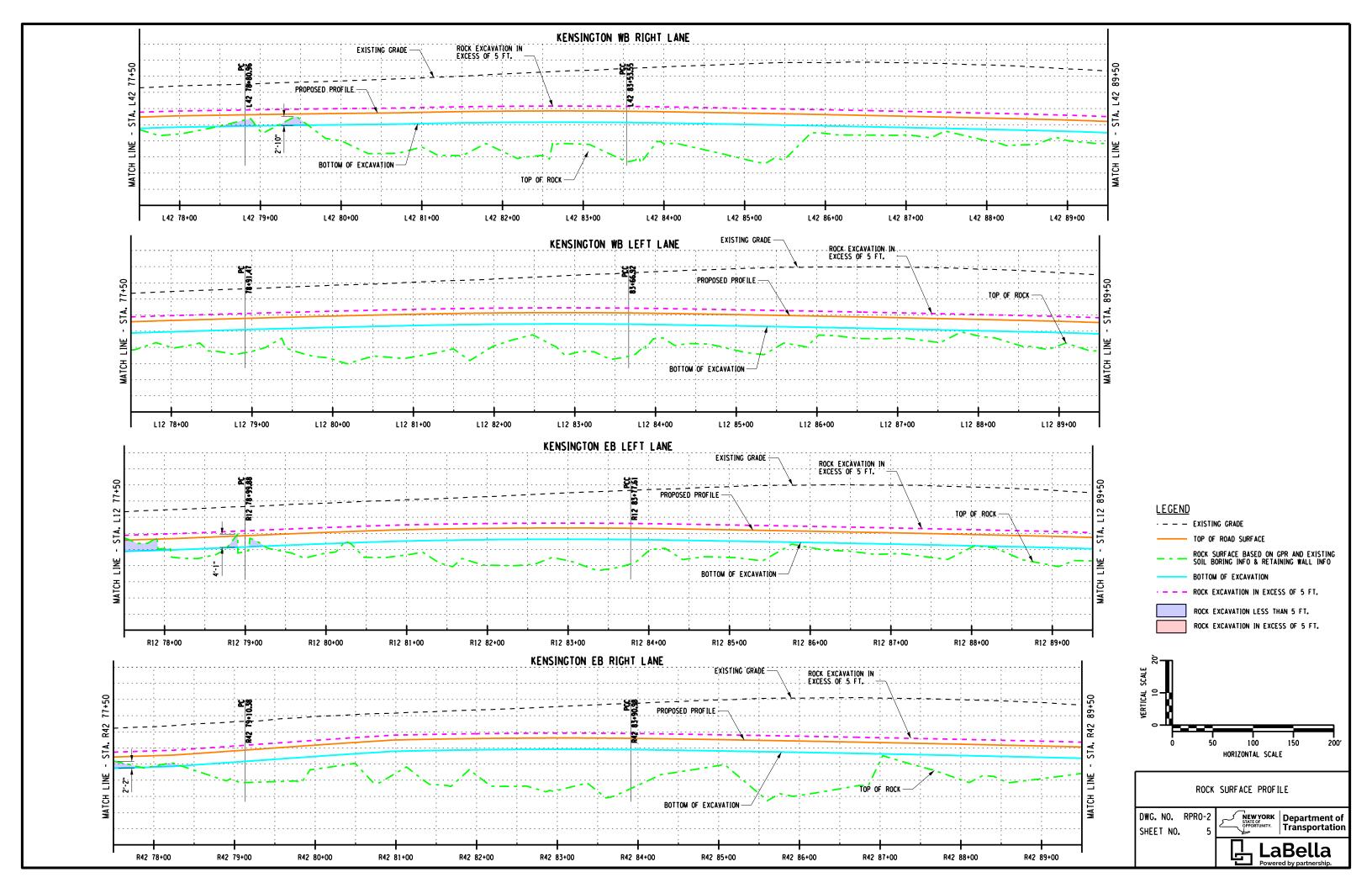


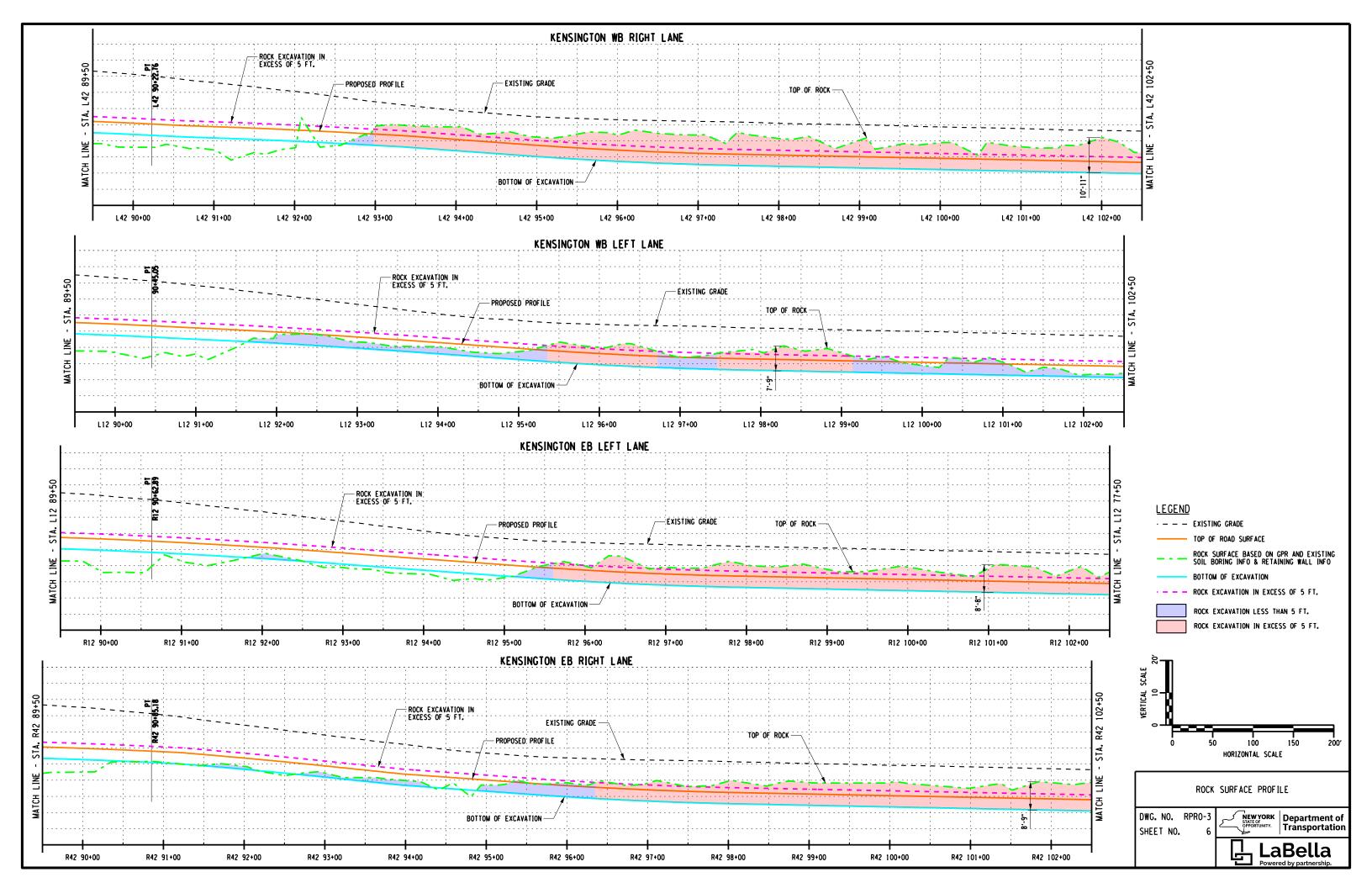


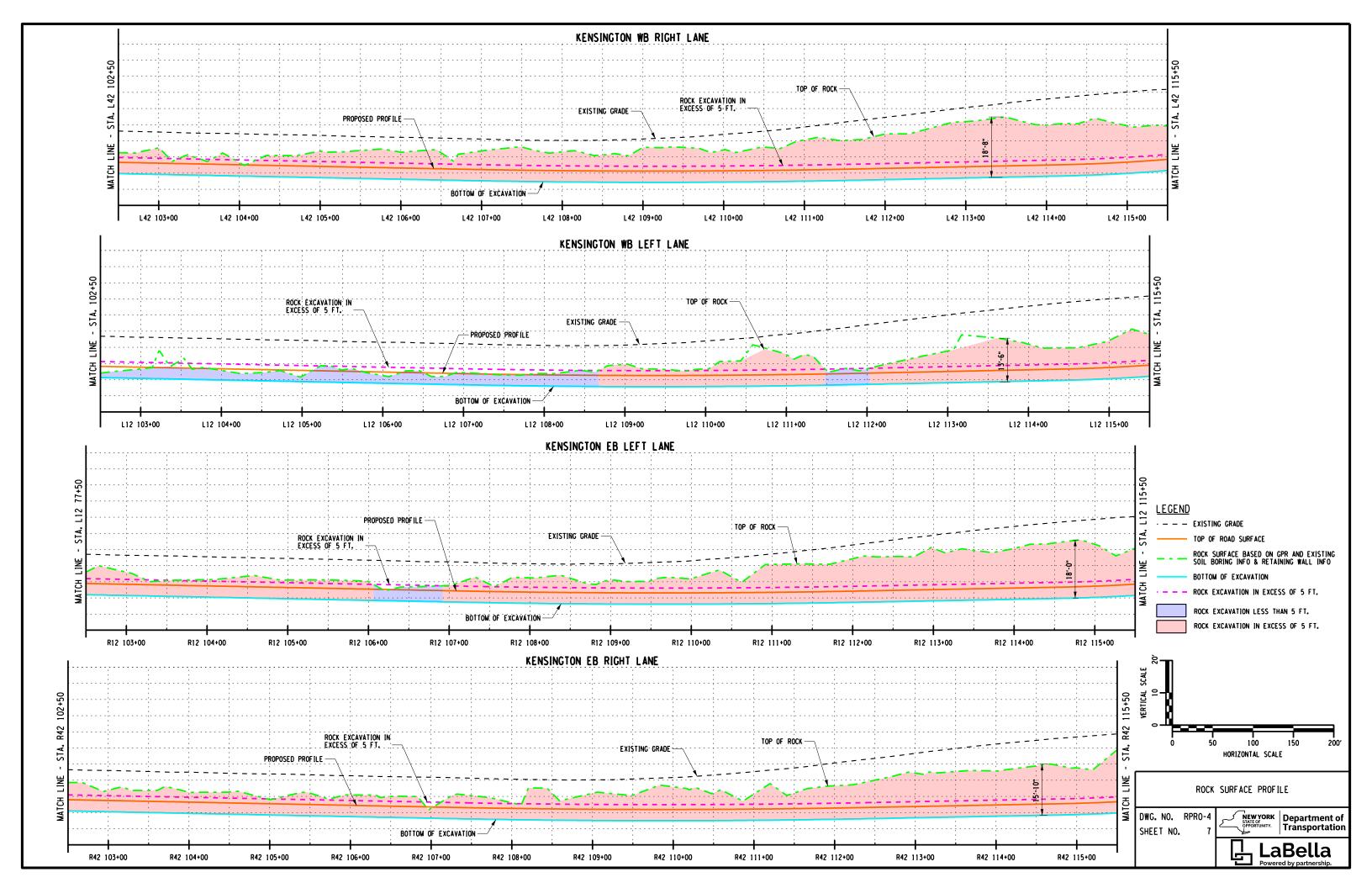
HUMBOLDT PKWY L42 97+00 R12 97+00 E. UTICA HUMBOLDT PKWY HUMBOLDT PKWY CO TO SO SO TO TO TO L42 L42 115+00 STA. HUMBOLDT PKWY S **LEGEND** CONVENTIONAL EXCAVATION - NO ROCK EXCAVATION EXPECTED ROCK EXCAVATION LESS THAN 5 FT. ROCK EXCAVATION IN EXCESS OF 5 FT. AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: BRIDGES CULVERTS PIN ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED CONTRACT NUMBER FILE NAME = DATE/TIME = 12/13/2023 USER = 3:33:53 PM ROCK SURFACE PLAN DRAWING NO. RPLN-2 SHEET NO. IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR. TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. NEW YORK STATE OF OPPORTUNITY. Department of Transportation LaBella

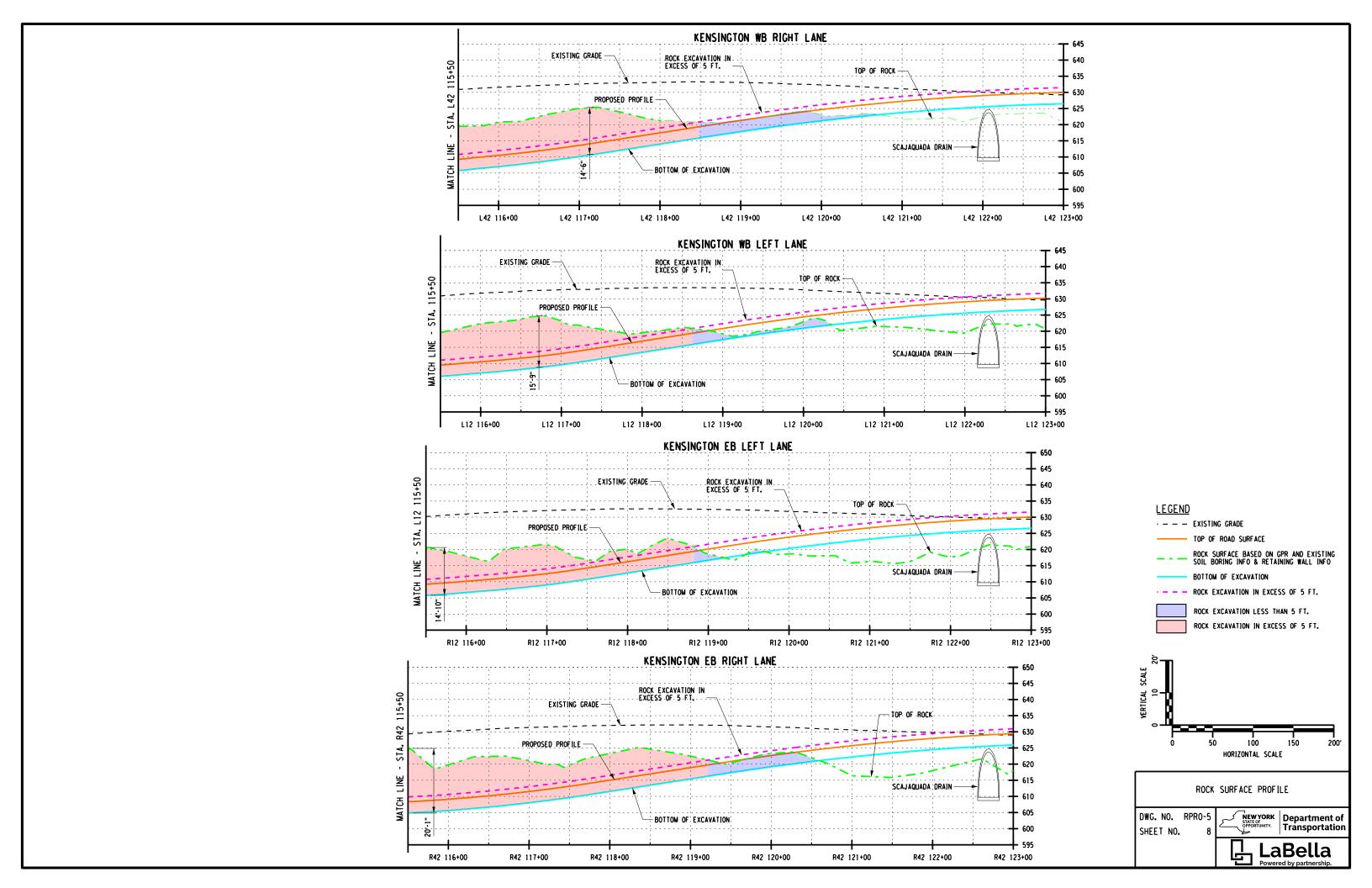












BEDROCK CONTOUR PLAN

BASED ON 2023 SOIL BORINGS, 2023 GPR SURVEY, RECORD PLANS AND RECORD SOIL BORINGS

