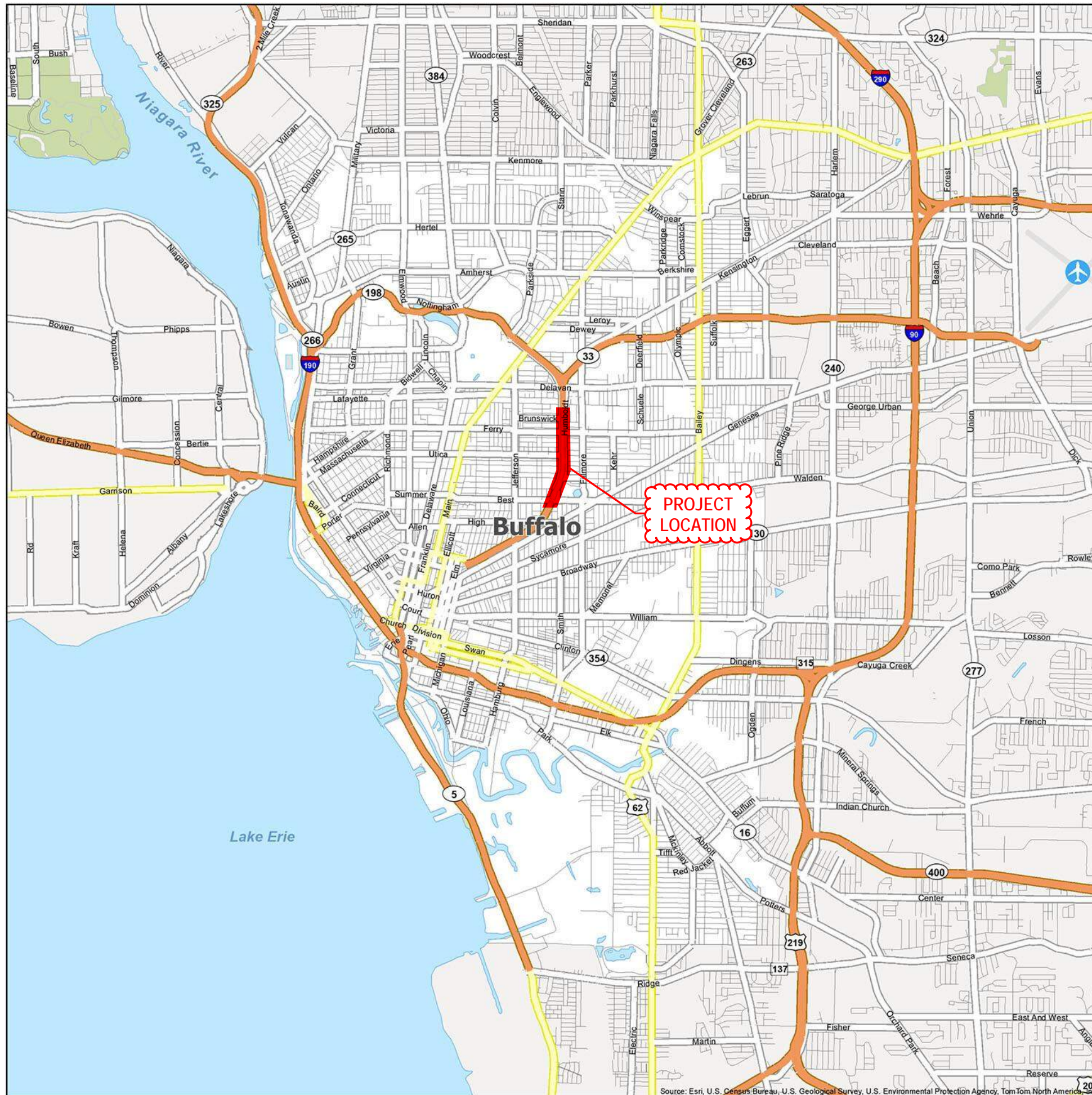


Appendix A2

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

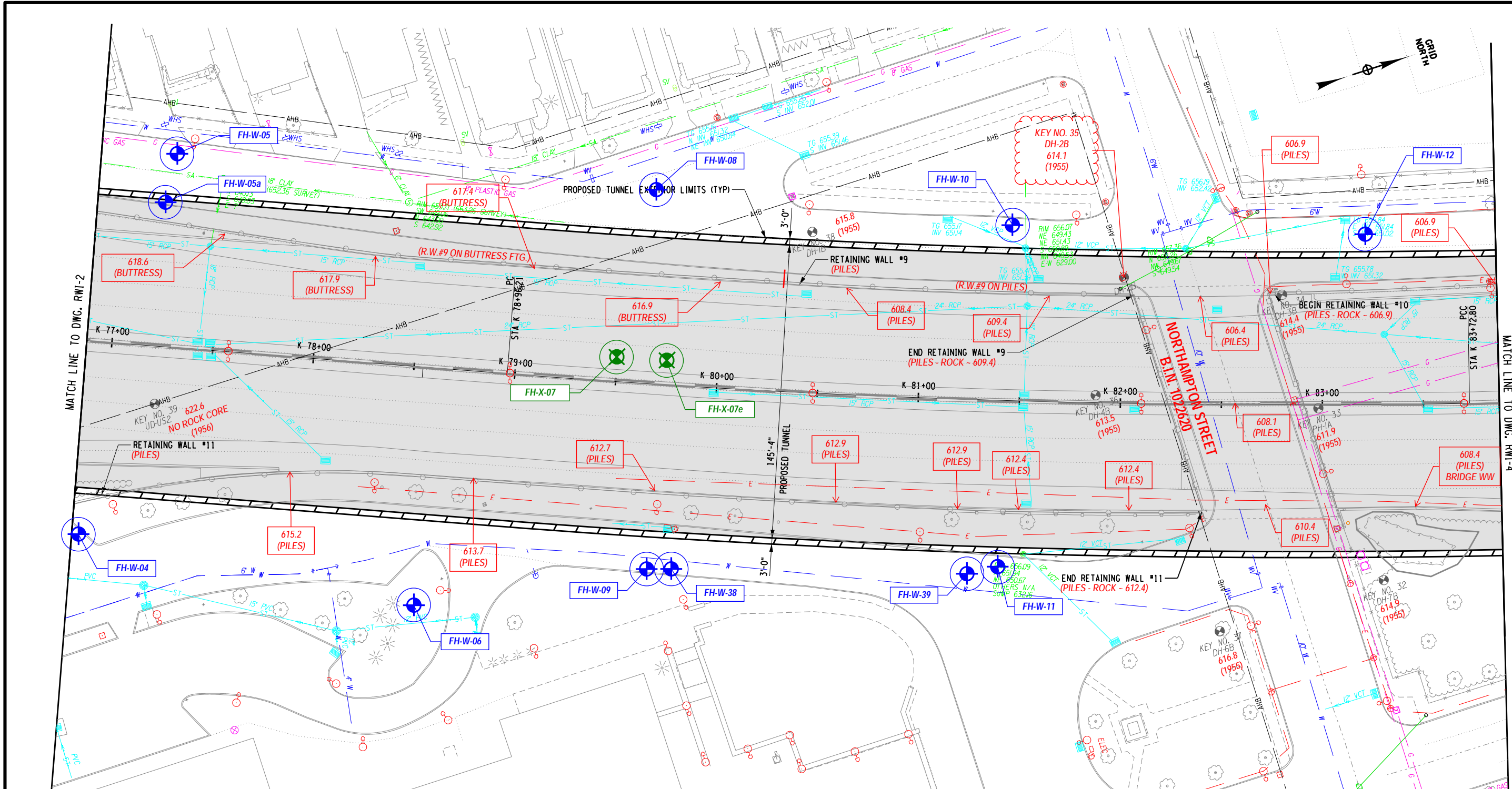
Source: Esri, U.S. Census Bureau, U.S. Geological Survey, U.S. Environmental Protection Agency, TomTom, North America, Inc.

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

BORING ID# & LOCATION			Actual State Plan Coordinates		Actual Top Surface Elevation (NAVD88)	Elevation of Rock (NAVD88) <small>(actual)</small>
ID	STA <small>(proposed)</small>	OFFSET	Northing (y)	Easting (x)		
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	102 + 75	85' LT.	1061418.497	1078543.960	635.62	616.8
FH-X-27	103 + 50	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	111 + 75	85' RT.	1062327.525	1078708.243	633.25	-
FH-W-33a	111 + 75	85' RT.	1062396.407	1078735.640	633.23	616.9
FH-X-34	113 + 25	0' RT.	1062447.049	1078610.143	625.14	-
FH-X-34e	113 + 25	0' RT.	1062464.541	1078610.733	625.14	618.8
FH-W-35	114 + 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	143' LT.	1060123.374	1078477.014	652.78	616.6
FH-W-38			1059119.951	1078471.879	653.46	-
FH-W-39			1059287.106	1078525.542	655.29	-

FILE NAME = \\pccashlab\pccashlab\pccashlab\Drawings\Highway\Plan\2021_restar\9551252.cph.retaining wall inventory.dgn
 DATE/TIME = 9/23/2022 3:46:05 PM
 USER = 346605

PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



EXISTING SOIL BORINGS & ADD'L INFO

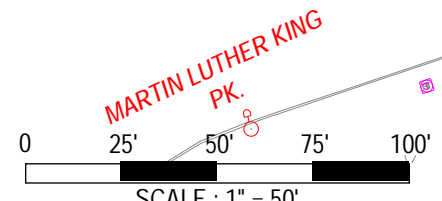
KEY NO. 10
 DH-W10
 618.7 (1955) RECORD BORING CALL OUT
 ESTIMATED TOP OF ROCK ELEV.(NAVD88)
 YEAR OF BORING

616.5 (S.F.) ESTIMATED TOP OF ROCK ELEV.(NAVD 88)
 FROM RECORD PLANS & FTG. TYPE

PROPOSED SOIL BORINGS

SOIL BORING WITH 20ft. ROCK CORE
 SOIL BORING WITH 10ft. ROCK CORE

PROPOSED SOIL BORINGS WERE COMPLETED IN
 SEPTEMBER - NOVEMBER 2023.



THIS SHEET - EXISTING (RECORD) BORINGS
 KEY NO. 32 THRU KEY NO. 39

AFFIX SEAL:
 ON:

ALTERED BY:
 ON:

AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

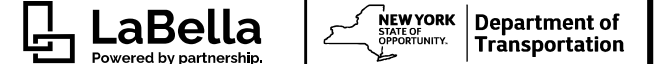
STATE ROUTE 33
 KENSINGTON EXPRESSWAY
 COUNTY: ERIE REGION: 5

PIN 5512.52
 BRIDGES
 CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED
**EXISTING SOIL BORING INFORMATION
 BASED ON RECORD DRAWINGS
 SHEET 3 OF 9**

CONTRACT NUMBER
 DRAWING NO.
 SHEET NO. 3

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.





HOLE FH-W-01A

PSN 12472 BORNUM 28
REGION 5
COUNTY ERIE
PIN 5512.52

LINE
STA
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION

SURF. ELEV. 628.91

ACTUAL COORDINATES (N) 1,058,505.930 (E) 1,078,041.090 DATUM NAD83

DEPTH TO WATER SEE NOTE

DATE START 23-OCT-2023

DATE FINISH 23-OCT-2023

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	J1	2	6	15	20	9.4%	(0.00) Dark Brown Silty GRAVEL , Sandy With Organics (D-LW)
	5.0	J2	5	5	6	7	17.4%	(3.50) Red-Brown Silty CLAY , With Pieces Of Gravel (M-PL)
	10.0	R1						(8.70) Run #1 Drilled from 8'8" To 13'8" ROCK REC. 60" 100% 11 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	15.0	R2						(13.70) Run #2 Drilled from 13'8" To 18'8" ROCK REC. 60" 100% 11 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	20.0	R3						(18.70) Run #3 Drilled from 18'8" To 23'8" ROCK REC. 60" 100% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	25.0	R4						(23.70) Run #4 Drilled from 23'8" To 28'8" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"

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 28-NOV-2023
RESIDENT ENGINEER
STRUCTURE NAME B.I.N.

SM 282 E 12/02

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 28
 REGION 5
 COUNTY ERIE
 PIN 5512.52

HOLE FH-W-01A
 LINE _____
 STA _____
 OFFSET _____ ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 628.91
 ACTUAL COORDINATES (N) 1,058,505.930 (E) 1,078,041.090 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 23-OCT-2023 DATE FINISH 23-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0		6	12	18	24			

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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
23-Oct-23	11:25	8.70	8.70	NONE		NO

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DRILL RIG OPERATOR Al Linstruth
 SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
 REG GEOTECHNICAL ENGINEER Todd E. Nelson
 DATE APPROVED 28-NOV-2023
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-W-01A

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 24
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-2
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,058,452.170 (E) 1,078,160.720 DATUM NAD83 SURF. ELEV. 623.66
DEPTH TO WATER SEE NOTE

DATE START 19-SEP-2023 DATE FINISH 19-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	J1	3	5	8	7	(0.00) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	5.0	J2	3	3	3	6	(3.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	10.0	R1					(7.30) Run #1 Drilled from 7'4" To 12'4" ROCK REC. 60" 100% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	15.0	R2					(12.30) Run #2 Drilled from 12'4" To 17'4" ROCK REC. 60" 100% 15 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	20.0	R3					(17.30) Run #3 Drilled from 17'4" To 22'4" ROCK REC. 60" 100% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	25.0	R4					(22.30) Run #4 Drilled from 22'4" To 27'4" ROCK REC. 58" 96.7% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	

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DRILL RIG OPERATOR A. Linstruth/B. Fletcher
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. _____



PSN 12472 BORNUM 24
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-2
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 623.66
ACTUAL COORDINATES (N) 1,058,452.170 (E) 1,078,160.720 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 19-SEP-2023 DATE FINISH 19-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0		6	12	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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
15-Sep-23	13:30	27.30	7.30	20.00		NO

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DRILL RIG OPERATOR A. Linstruth/B. Fletcher
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. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-3
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 3
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 648.96
ACTUAL COORDINATES (N) 1,058,714.600 (E) 1,078,115.800 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 25-SEP-2023 DATE FINISH 25-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	J1	3	9	8		(0.00) Brown Sandy SILT , Organic With Crushed Concrete (D-NW)	
	5.0	J2	11	12	30		(3.50) Brown Gravelly SAND , With Crushed Concrete And Slag (M-NPL)	
	10.0	J3	44	50			(8.50) Gray-Brown Gravelly SAND , With Crushed Concrete And Slag (M-NPL)	
	15.0	J4	7	15	50		(13.50) Red-Brown Silty CLAY , Gravelly With Sand (M-PL)	
	20.0	J5	2	1	2		(18.50) Red-Brown CLAY , Sandy (M-PL)	
	25.0	J6	1	2	2		(23.50) Red-Brown CLAY , Gravelly With Sand (M-PL)	

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DRILL RIG OPERATOR B. Fletcher
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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-3

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE LINE STA _____
FH-W-3

PSN 12472 BORNUM 3
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,058,714.600 (E) 1,078,115.800 DATUM NAD83 SURF. ELEV. 648.96
DEPTH TO WATER SEE NOTE

DATE START 25-SEP-2023 DATE FINISH 25-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0								
		R1						(28.50) Run #1 Drilled from 28'6" To 33'6" ROCK REC. 60" 100% 13 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	30.0								
		R2						(33.50) Run #2 Drilled from 33'6" To 38'6" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	35.0								
		R3						(38.50) Run #3 Drilled from 38'6" To 43'6" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	40.0								
		R4						(43.50) Run #4 Drilled from 43'6" To 48'6" ROCK REC. 60" 100% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	45.0								

BOTTOM OF HOLE AT 48.50 ft

1. Autohammer used for SPT at all sampling depths.

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DRILL RIG OPERATOR B. Fletcher
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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-3

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 3
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-3
STA _____
OFFSET _____ ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 648.96
ACTUAL COORDINATES (N) 1,058,714.600 (E) 1,078,115.800 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 25-SEP-2023 DATE FINISH 25-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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

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DRILL RIG OPERATOR B. Fletcher
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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-3

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 2
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-4
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 650.53
ACTUAL COORDINATES (N) 1,058,852.500 (E) 1,078,366.090 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 29-AUG-2023 DATE FINISH 30-AUG-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	J1	3	12	20	19	12.8%	(0.00) Brown Silty GRAVEL , With Organics (M-NPL)
	5.0	J2	19	REF			5.4%	(3.50) Gray-Brown Sandy GRAVEL (M-NPL)
	10.0	J3	10	6	5	7	9.6%	(8.50) Brown Sandy GRAVEL (M-NPL)
	15.0	J4	6	6	5	6	8.2%	(13.50) Brown Sandy GRAVEL (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)

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 L. Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 28-NOV-2023 REVISION # 1
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-4

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-4
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 2
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,058,852.500 (E) 1,078,366.090 DATUM NAD83 SURF. ELEV. 650.53
DEPTH TO WATER SEE NOTE

DATE START 29-AUG-2023 DATE FINISH 30-AUG-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0						7		
		J7	2		3			24.1%	(28.50) Gray Silty CLAY , Sandy (M-PL)
	30.0								
		R1					REF		(30.30) Run #1 Drilled from 30'4" To 35'4" ROCK REC. 60" 100% 12 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	35.0								
		R2							(35.30) Run #2 Drilled from 35'4" To 40'4" ROCK REC. 60" 100% 12 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	40.0								
		R3							(40.30) Run #3 Drilled from 40'4" To 45'4" ROCK REC. 60" 100% 7 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	45.0								
		R4							(45.30) Run #4 Drilled from 45'4" To 50'4" ROCK REC. 57" 95% 6 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	50.0								

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 L. Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 28-NOV-2023 REVISION # 1
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____



HOLE LINE STA _____
FH-W-4

PSN 12472 BORNUM 2
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 650.53
ACTUAL COORDINATES (N) 1,058,852.500 (E) 1,078,366.090 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 29-AUG-2023 DATE FINISH 30-AUG-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
50.0			6	12	18	24		

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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
29-Aug-23	13:15	30.30	28.50	30.00		NO
30-Aug-23	13:25	50.30	30.30	18.50		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.

DRILL RIG OPERATOR A. Linstruth
SOIL & ROCK DESCRIPTION L. Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 28-NOV-2023 REVISION # 1
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 4
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE STA FH-W-5
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 652.12
ACTUAL COORDINATES (N) 1,058,955.700 (E) 1,078,210.600 DATUM NAD83 DEPTH TO WATER NONE

DATE START 25-SEP-2023 DATE FINISH 25-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
		N	11	10			(0.30) CONCRETE Pavement	
				7			(1.00) No Sample	

REF BOTTOM OF HOLE AT 2.30 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.*

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 # 2
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE LINE STA
FH-W-5a

OFFSET ft

PSN 12472 BORNUM 5
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,058,945.170 (E) 1,078,223.620 DATUM NAD83 SURF. ELEV. 652.05
DEPTH TO WATER SEE NOTE

DATE START 26-SEP-2023 DATE FINISH 26-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.30) CONCRETE Pavement	
		J1	8	7	14	9.7%	(1.00) Gray-Brown Sandy SILT , Gravelly With Pieces Of Slag (M-NPL)	
		J2	20	14	9	9.8%	(3.50) Gray Pulverized CONCRETE Fill, Gravelly (M-NPL)	
	5.0							
		J3	8	8	48	12%	(8.50) Gray Pulverized CONCRETE Fill, Sandy (M-NPL)	
	10.0							
		J4	16	27	14	188.2%	(13.50) Gray Pulverized CONCRETE Fill, Trace Slag (M-NPL)	
	15.0							
		J5	11	4	2	16.6%	(18.50) Gray Pulverized CONCRETE Fill, With Pieces Of Slag	
	20.0							
		J6	1	1	2	15.8%	(23.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	25.0							

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DRILL RIG OPERATOR B. Fletcher
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.

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-5a

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 5
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-5a
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 652.05
ACTUAL COORDINATES (N) 1,058,945.170 (E) 1,078,223.620 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 26-SEP-2023 DATE FINISH 26-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0								
		J7	4	7			8%	(28.50) Red-Brown SAND , Gravelly (M-NPL)	
	30.0			4					
		R1						(31.00) Run #1 Drilled from 31'0" To 36'0" ROCK REC. 59" 98.3% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	35.0								
		R2						(36.00) Run #2 Drilled from 36'0" To 41'0" ROCK REC. 59" 98.3% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	40.0								
		R3						(41.00) Run #3 Drilled from 41'0" To 46'0" ROCK REC. 59" 98.3% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	45.0								
		R4						(46.00) Run #4 Drilled from 46'0" To 51'0" ROCK REC. 59" 98.3% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	50.0								

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DRILL RIG OPERATOR B. Fletcher
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. _____



PSN 12472 BORNUM 5
 REGION 5
 COUNTY ERIE
 PIN 5512.52

HOLE LINE STA FH-W-5a
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 652.05
 ACTUAL COORDINATES (N) 1,058,945.170 (E) 1,078,223.620 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 26-SEP-2023 DATE FINISH 26-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	50.0		6	12	18	24		

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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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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DRILL RIG OPERATOR B. Fletcher
 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. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-6
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 6
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,058,992.090 (E) 1,078,448.360 DATUM NAD83 SURF. ELEV. 651.81
DEPTH TO WATER SEE NOTE

DATE START 30-AUG-2023 DATE FINISH 30-AUG-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	J1	3	6	12	11	24.3%	(0.00) Brown Sandy SILT , Organic (M-NPL)
	5.0	J2	10	12	14	16	11.8%	(4.00) Brown Silty CLAY , Sandy (M-PL)
	10.0	J3	6	10	16	16	13.5%	(9.00) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)
	15.0	J4	6	7	8	10	16.2%	(14.00) Red-Brown Silty CLAY , Sandy (M-PL)
	20.0	J5	10	21	18	13	19.3%	(19.00) Red-Brown Fine Sandy SILT (M-NPL)
	25.0	J6	3	4			17.4%	(24.00) Red-Brown Silty CLAY , Sandy (M-PL)

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-6

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-6
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 6
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 651.81
ACTUAL COORDINATES (N) 1,058,992.090 (E) 1,078,448.360 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 30-AUG-2023 DATE FINISH 30-AUG-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
25.0					6	6		
30.0		J7	1	2	4	6	14.3% (29.00) Red-Brown Silty CLAY , Sandy (M-PL)	
35.0		R1					(31.00) Run #1 Drilled from 31'0" To 36'0" ROCK REC. 60" 100% 19 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
40.0		R2					(36.00) Run #2 Drilled from 36'0" To 41'0" ROCK REC. 60" 100% 13 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
45.0		R3					(41.00) Run #3 Drilled from 41'0" To 46'0" ROCK REC. 60" 100% 11 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
50.0		R4					(46.00) Run #4 Drilled from 46'0" To 50'4" ROCK REC. 52" 99.6% 8 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	

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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 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 6
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-6
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 651.81
ACTUAL COORDINATES (N) 1,058,992.090 (E) 1,078,448.360 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 30-AUG-2023 DATE FINISH 30-AUG-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	50.0		6	12	18	24		

BOTTOM OF HOLE AT 51.00 ft

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

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

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-6

SM 282 E 12/02

PSN 12472 BORNUM 19
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-8
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 654.25
 ACTUAL COORDINATES (N) 1,059,159.180 (E) 1,078,291.210 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 25-SEP-2023 DATE FINISH 25-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.30) CONCRETE Pavement (1.00) Grey-Brown Silty SAND , Gravelly With Clay (M-LPL)	
		J1	7	5	5	14.1%		
		J2	8	10	14	14.1%	(3.50) NO SAMPLE	
	5.0							
		J3	4	3	6	14.7%	(8.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	10.0							
		J4	2	3	4	16.6%	(13.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	15.0							
		J5	3	4	7	15.2%	(18.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	20.0							
		J6	1	3	3	21%	(23.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	25.0							

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DRILL RIG OPERATOR B. Fletcher
 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-8

SM 282 E 12/02

PSN 12472 BORNUM 19
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-8
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
 ACTUAL COORDINATES (N) 1,059,159.180 (E) 1,078,291.210 DATUM NAD83 SURF. ELEV. 654.25
 DATE START 25-SEP-2023 DATE FINISH 25-SEP-2023 DEPTH TO WATER SEE NOTE

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24	24		
25.0									
		J7	1	3	4		17.7%	(28.50) Red-Brown Silty CLAY, Sandy (M-PL)	
30.0									
		J8	WOH	1	2		23.9%	(33.50) Red-Brown Silty CLAY, Sandy (M-PL)	
35.0									
		R1						(38.10) Run #1 Drilled from 38'1" To 43'1" ROCK REC. 59" 98.3% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
40.0									
		R2						(43.10) Run #2 Drilled from 43'1" To 48'1" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
45.0									
		R3						(48.10) Run #3 Drilled from 48'1" To 53'1" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
50.0									

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 28-NOV-2023 REVISION # 1
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-8

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 19
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE STA FH-W-8
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 654.25
ACTUAL COORDINATES (N) 1,059,159.180 (E) 1,078,291.210 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 25-SEP-2023 DATE FINISH 25-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	50.0								
		R4						(53.10) Run #4 Drilled from 53'1" To 58'1" ROCK REC. 60" 100% 5 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	55.0								

BOTTOM OF HOLE AT 58.10 ft

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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
25-Sep-23	10:45	38.10	38.10	37.40		NO
25-Sep-23	13:00	58.10	38.10	19.00		NO

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DRILL RIG OPERATOR B. Fletcher
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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-8

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-9
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 9
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,118.190 (E) 1,078,471.710 DATUM NAD83 SURF. ELEV. 653.28
DEPTH TO WATER SEE NOTE

DATE START 01-SEP-2023 DATE FINISH 01-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	J1	8	8	8	6	6.2%	(0.00) ASPHALT (0.50) Grey Fine Sandy GRAVEL , Silty, Trace Clay (M-LPL)
		J2	7	8	12	10	15.5%	(3.50) Brown Silty CLAY , Sandy (M-PL)
	5.0	J3	8	9	16	16	17%	(8.50) Red-Brown Silty CLAY , Trace Sand (M-PL)
	10.0	J4	4	9	8	10	13.8%	(13.50) Red-Brown Silty CLAY , Gravelly (M-PL)
	15.0	J5	1	3	4	5	15.1%	(18.50) Red-Brown Silty CLAY , Gravelly (M-PL)
	20.0	J6	WOH	2	2		16.2%	(23.50) Red-Brown Silty CLAY , Gravelly (M-PL)
	25.0							

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 # 2
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-9

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE LINE STA _____
FH-W-9

PSN 12472 BORNUM 9
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,118.190 (E) 1,078,471.710 DATUM NAD83 SURF. ELEV. 653.28
DEPTH TO WATER SEE NOTE

DATE START 01-SEP-2023 DATE FINISH 01-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
25.0						4		
		J7	2	4	5		17.3%	
30.0						4	(28.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
		R1					(32.00) Run #1 Drilled from 32'0" To 37'0" ROCK REC. 60" 100% 13 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
35.0								
		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								
		R3					(42.00) Run #3 Drilled from 42'0" To 47'0" ROCK REC. 60" 100% 10 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
45.0								
		R4					(47.00) Run #4 Drilled from 47'0" To 52'0" ROCK REC. 60" 100% 13 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
50.0								

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DRILL RIG OPERATOR A. Linstruth
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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-9



HOLE LINE STA _____
FH-W-9

PSN 12472 BORNUM 9
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,118.190 (E) 1,078,471.710 DATUM NAD83 SURF. ELEV. 653.28
DEPTH TO WATER SEE NOTE

DATE START 01-SEP-2023 DATE FINISH 01-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24	24		
	50.0								

BOTTOM OF HOLE AT 52.00 ft

1. Autohammer used for SPT at all sampling depths.
 2. Auger refusal at 32.0'.
 3. 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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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DRILL RIG OPERATOR A. Linstruth
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. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-10
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 20
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.41
ACTUAL COORDINATES (N) 1,059,334.700 (E) 1,078,363.590 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 21-SEP-2023 DATE FINISH 21-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.30) CONCRETE Pavement	
		J1	7	7	5	10.7%	(1.00) Red-Brown Silty CLAY , Sandy (M-NPL)	
		J2	6	10		12.1%	(3.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	5.0							
		J3	4	6	9	13.1%	(8.50) Red-Brown-Grey Silty CLAY , Sandy (M-PL)	
	10.0							
		J4	3	5	8	15.5%	(13.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	15.0							
		J5	3	4	5	18.6%	(18.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	20.0							
		J6	2	2	4	14.4%	(23.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	25.0							

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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. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 20
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-10
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.41
ACTUAL COORDINATES (N) 1,059,334.700 (E) 1,078,363.590 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 21-SEP-2023 DATE FINISH 21-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0							
		J7	15	29	14	14.9%	(28.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	30.0							
		J8	2	3	4	15.3%	(33.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	35.0							
		J9	1	2	2	25.6%	(38.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	40.0							
		R1					(41.20) Run #1 Drilled from 41'2" To 46'2" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	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							

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-10

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 20
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-10
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.41
ACTUAL COORDINATES (N) 1,059,334.700 (E) 1,078,363.590 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 21-SEP-2023 DATE FINISH 21-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	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"	
	55.0								
		R4						(56.20) Run #4 Drilled from 56'2" To 61'2" ROCK REC. 58" 96.7% 6 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	60.0								

BOTTOM OF HOLE AT 61.20 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-10

SM 282 E 12/02

PSN 12472 BORNUM 8
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-11
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.36
 ACTUAL COORDINATES (N) 1,059,290.370 (E) 1,078,525.340 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 05-SEP-2023 DATE FINISH 05-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	J1	6	7	16	17	9.1%	(0.00) Brown Sandy SILT Gravelly (D-NW)
	5.0	J2	8	9	5	5	6.5%	(4.00) Brown Sandy SILT Gravelly (D-NW)
	10.0	J3	3	3	3	3	10.9%	(9.00) Brown Sandy SILT Gravelly (M-NPL)
	15.0	J4	7	8	5	4	8.2%	(14.00) Gray-Brown Silty SILT Sandy (M-NPL)
	20.0	J5	2	2	2	2	11.7%	(19.00) Brown Silty GRAVEL Sandy (M-NPL)
	25.0	J6	7	REF			30.2%	(24.00) Brown Silty SAND Clayey (M-LPL)

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 2 HOLE FH-W-11

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 8
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE STA FH-W-11
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,290.370 (E) 1,078,525.340 DATUM NAD83
DATE START 05-SEP-2023 DATE FINISH 05-SEP-2023
SURF. ELEV. 655.36 DEPTH TO WATER SEE NOTE

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0	J7					2.3%	(24.70) Gray CONCRETE (M-NPL)
		J8	2	2	3	3	20.2%	(28.00) Red-Brown CLAY Gravelly (M-PL)
	30.0							

BOTTOM OF HOLE AT 30.00 ft

1. Autohammer used for SPT at all sampling depths.
2. 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.

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-W-11

SM 282 E 12/02

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 13
 REGION 5
 COUNTY ERIE
 PIN 5512.52

HOLE FH-W-11a
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.3
 ACTUAL COORDINATES (N) 1,059,285.290 (E) 1,078,526.720 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 05-SEP-2023 DATE FINISH 08-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0		6	12	18	24	(0.00) No Samples Taken, See Notes	
	5.0							
	10.0							
	15.0							
	20.0							
	25.0							

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 # 2
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-11a

SM 282 E 12/02

PSN 12472 BORNUM 13
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-11a
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.3
 ACTUAL COORDINATES (N) 1,059,285.290 (E) 1,078,526.720 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 05-SEP-2023 DATE FINISH 08-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
25.0								
30.0								
35.0		J1	2	2	3	19.8%	(33.00) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
40.0		J2	3	REF		25%	(38.00) Red-Brown Silty CLAY , Trace Fine Sand, With Gravel (M-PL)	
		R1					(38.90) Run #1 Drilled from 38'11" To 43'11" ROCK REC. 60" 100% 17 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
45.0		R2					(43.90) Run #2 Drilled from 43'11" To 48'11" ROCK REC. 60" 100% 10 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
50.0		R3					(48.90) Run #3 Drilled from 48'11" To 53'11" ROCK REC. 60" 100% 16 pieces	

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DRILL RIG OPERATOR A. Linstruth
 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-11a

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 13
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE STA FH-W-11a
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.3
ACTUAL COORDINATES (N) 1,059,285.290 (E) 1,078,526.720 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 05-SEP-2023 DATE FINISH 08-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	50.0								NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	55.0	R4						(53.90)	Run #4 Drilled from 53'11" To 58'11" ROCK REC. 60" 100% 11 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"

BOTTOM OF HOLE AT 58.90 ft

1. 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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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DRILL RIG OPERATOR A. Linstruth
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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-11a

SM 282 E 12/02

PSN 12472 BORNUM 21
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-12
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 656.25
 ACTUAL COORDINATES (N) 1,059,499.010 (E) 1,078,418.460 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 20-SEP-2023 DATE FINISH 21-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement	
		J1	3	2	2	13.1%	(1.20) Red-Brown Sandy SILT , Clayey With Gravel (M-LPL)	
		J2	3	7	9	19.7%	(3.50) Red-Brown Silty SAND , Clayey With Gravel (M-LPL)	
	5.0							
		J3	9	10	14	14.1%	(8.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	10.0							
		J4	7	6	7	13.5%	(13.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	15.0							
		J5	2	8	12	17.9%	(18.50) Grey Fine Sandy SILT , Gravelly (M-NPL)	
	20.0							
		J6	1	2	5	11.8%	(23.50) Grey Silty CLAY , Sandy With Gravel (M-PL)	
	25.0							

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-12

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-12
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 21
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,499.010 (E) 1,078,418.460 DATUM NAD83 SURF. ELEV. 656.25
DEPTH TO WATER SEE NOTE

DATE START 20-SEP-2023 DATE FINISH 21-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0							
		J7	5	5	6	15.4%	(28.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	30.0							
		J8	3	3	4	16.6%	(33.50) Red-Brown Silty CLAY , Gravelly (M-PL)	
	35.0							
		J9	3	3	4	12.7%	(38.50) Grey Silty CLAY , Fine Sandy With Gravel (M-PL)	
	40.0							
		R1					(42.00) Run #1 Drilled from 42'0" To 47'0" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	45.0							
		R2					(47.00) Run #2 Drilled from 47'0" To 52'0" ROCK REC. 60" 100% 6 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	50.0							

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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. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE LINE STA
FH-W-12

OFFSET ft

PSN 12472 BORNUM 21
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,499.010 (E) 1,078,418.460 DATUM NAD83 SURF. ELEV. 656.25
DEPTH TO WATER SEE NOTE

DATE START 20-SEP-2023 DATE FINISH 21-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	50.0								
		R3						(52.00) Run #3 Drilled from 52'0" To 57'0" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	55.0								
		R4						(57.00) Run #4 Drilled from 57'0" To 62'0" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	60.0								

BOTTOM OF HOLE AT 62.00 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
21-Sep-23	09:45	62.00	42.00	4.30		NO

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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.

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-12

SM 282 E 12/02

PSN 12472 BORNUM 23
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-13
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 656.44
 ACTUAL COORDINATES (N) 1,059,596.450 (E) 1,078,669.830 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 12-SEP-2023 DATE FINISH 12-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
		J1	17	10	7	9	11.5%	(0.60) Brown Gravelly SAND (M-NPL)
		J2	6	9	13	18	12.1%	(3.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)
	5.0							
		J3	7	12	15	20	10.2%	(8.50) Red-Brown Sandy CLAY , Gravelly, Trace Sand (M-PL)
	10.0							
		J4	5	7	10	15	13.4%	(13.50) Red-Brown Silty CLAY , Fine Sandy With Gravel (M-PL)
	15.0							
		J5	4	5	6	8	14.2%	(18.50) Red-Brown Fine Sandy CLAY , Gravelly (M-PL)
	20.0							
		J6	2	3	4		13.5%	(23.50) Red-Brown Silty CLAY , Gravelly (M-PL)
	25.0							

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-13

SM 282 E 12/02

PSN 12472 BORNUM 23
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-13
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 656.44
 ACTUAL COORDINATES (N) 1,059,596.450 (E) 1,078,669.830 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 12-SEP-2023 DATE FINISH 12-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0					4		
		J7	2	1	2		15.1%	(28.50) Red-Brown Silty CLAY , Fine Sand With Gravel (M-PL)
	30.0					3		
		J8	2	3	3		16.8%	(33.50) Red-Brown Silty CLAY , Gravelly (M-PL)
	35.0					4		
		J9	1	1	10		13.1%	(38.50) Red-Brown Silty CLAY , Gravelly (M-PL)
	40.0					5		
		J10	33	33	33		7.7%	(43.50) Red-Brown Silty SAND , Gravelly (M-NPL)
	45.0					43		
		R1						(46.10) Run #1 Drilled from 46'1" To 51'1" ROCK REC. 60" 100% 21 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	50.0							

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 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-13

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE LINE STA
FH-W-13

OFFSET ft

PSN 12472 BORNUM 23
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 656.44
ACTUAL COORDINATES (N) 1,059,596.450 (E) 1,078,669.830 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 12-SEP-2023 DATE FINISH 12-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
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"	
55.0									
		R3						(56.10) Run #3 Drilled from 56'1" To 61'1" ROCK REC. 60" 100% 15 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
60.0									
		R4						(61.10) Run #4 Drilled from 61'1" To 66'1" ROCK REC. 54" 90% 16 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
65.0									

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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-13

SM 282 E 12/02

PSN 12472 BORNUM 41
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-14
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.09
 ACTUAL COORDINATES (N) 1,059,760.500 (E) 1,078,480.660 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 28-SEP-2023 DATE FINISH 28-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
		J1	9	7	39	10.4%	(0.90) Brown Silty SAND , Gravelly (D-LW)	
		J2	3	5	7	17.3%	(3.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	5.0							
		J3	5	6	9	14.7%	(8.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	10.0							
		J4	6	6	8	14.6%	(13.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	15.0							
		J5	4	6	7	14.5%	(18.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	20.0							
		J6	2	2	3	15.8%	(23.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	25.0							

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-14

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-14
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 41
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.09
ACTUAL COORDINATES (N) 1,059,760.500 (E) 1,078,480.660 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 28-SEP-2023 DATE FINISH 28-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
25.0								
		J7	2	3	9	16.1%	(28.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
30.0								
		J8	1	1	3	22.3%	(33.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
35.0								
		J9	WOH	27	REF	10.6%		
40.0		R1					(39.90) Run #1 Drilled from 39'11" To 44'11" ROCK REC. 60" 100% 11 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
45.0								
		R2					(44.90) Run #2 Drilled from 44'11" To 49'11" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
50.0								

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. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 41
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-14
STA _____
OFFSET _____ ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.09
ACTUAL COORDINATES (N) 1,059,760.500 (E) 1,078,480.660 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 28-SEP-2023 DATE FINISH 28-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	50.0	R3	6	12	18	24		(49.90) Run #3 Drilled from 49'11" To 54'11" ROCK REC. 60" 100% 12 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	55.0	R4						(54.90) Run #4 Drilled from 54'11" To 59'11" ROCK REC. 60" 100% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	

BOTTOM OF HOLE AT 59.90 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
28-Sep-23	09:05	39.90	39.90	39.50		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.

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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-14

SM 282 E 12/02

PSN 12472 BORNUM 46
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-15
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 654.68
 ACTUAL COORDINATES (N) 1,059,902.790 (E) 1,078,504.110 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 27-SEP-2023 DATE FINISH 27-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
		J1	4	4	5	8.5%	(1.20) Gray-Brown Silty SAND , Gravelly With Pieces Of Cobble (D-NW)	
		J2	5	8	11	13.8%	(3.50) Red-Brown-Grey Silty CLAY , Sandy (M-PL)	
	5.0							
		J3	8	10	12	12.7%	(8.50) Red-Brown Silty CLAY , Gravelly With Sand (D-PW)	
	10.0							
		J4	4	6	8	15.9%	(13.50) Red-Brown Silty CLAY , Gravelly With Sand (M-PL)	
	15.0							
		J5	1	3	5	14.2%	(18.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	20.0							
		J6	4	5	6	14%	(23.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	25.0							

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-15

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-15
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 46
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 654.68
ACTUAL COORDINATES (N) 1,059,902.790 (E) 1,078,504.110 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 27-SEP-2023 DATE FINISH 27-SEP-2023

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
25.0								
		J7	1	2	3	15.6%	(28.50) Red-Grey Silty CLAY , Gravelly With Sand (M-PL)	
30.0								
		J8	1	1	2	16.7%	(33.50) Red-Brown Silty CLAY , Gravelly With Sand (M-PL)	
35.0								
		J9	WOH	1		22%	(38.50) Red-Brown Silty CLAY , Sandy (M-PL)	
40.0		R1			REF		(39.80) Run #1 Drilled from 39'10" To 44'10" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
45.0		R2					(44.80) Run #2 Drilled from 44'10" To 49'10" ROCK REC. 60" 100% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
50.0								

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-15

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 46
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-15
STA _____
OFFSET _____ ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 654.68
ACTUAL COORDINATES (N) 1,059,902.790 (E) 1,078,504.110 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 27-SEP-2023 DATE FINISH 27-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	50.0	R3	6	12	18	24		(49.80) Run #3 Drilled from 49'10" To 54'10" ROCK REC. 60" 100% 6 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	55.0	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

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

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-15

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-16
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 22
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.6
ACTUAL COORDINATES (N) 1,059,874.240 (E) 1,078,697.210 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 14-SEP-2023 DATE FINISH 19-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.30) CONCRETE Pavement	
		J1	18	14	6	4	9.5% (1.20) Brown Sandy GRAVEL , Clayey (M-LPL)	
		J2	3	7	7	11	19.9% (3.50) Red-Brown Silty CLAY , Gravelly (M-PL)	
	5.0							
		J3	4	6	7	10	13.8% (8.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	10.0							
		J4	3	7	7	8	13.9% (13.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	15.0							
		J5	3	4	6	6	12.7% (18.50) Grey-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	20.0							
		J6	3	4	5		13% (23.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	25.0							

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DRILL RIG OPERATOR A. Linstruth/B. Fletcher
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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-16



HOLE FH-W-16
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 22
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.6
ACTUAL COORDINATES (N) 1,059,874.240 (E) 1,078,697.210 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 14-SEP-2023 DATE FINISH 19-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0					7		
		J7	3	5	5	9	13%	(28.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)
	30.0							
		J8	3	4	4	4	13.4%	(33.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)
	35.0							
		J9	5	3	4	11	7.2%	(38.50) Grey-Brown Sandy SILT , Clayey With Gravel (W-LPL)
	40.0							
		R1						(41.60) Run #1 Drilled from 41'7" To 46'7" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	45.0							
		R2						(46.60) Run #2 Drilled from 46'7" To 51'7" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	50.0							

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DRILL RIG OPERATOR A. Linstruth/B. Fletcher
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 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 22
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-16
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.6
ACTUAL COORDINATES (N) 1,059,874.240 (E) 1,078,697.210 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 14-SEP-2023 DATE FINISH 19-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	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"
	55.0								
		R4							(56.60) Run #4 Drilled from 56'7" To 61'7" ROCK REC. 60" 100% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	60.0								

BOTTOM OF HOLE AT 61.60 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
18-Sep-23	10:05	40.50	40.00	21.10		NO

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DRILL RIG OPERATOR A. Linstruth/B. Fletcher
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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-16

SM 282 E 12/02

PSN 12472 BORNUM 45
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-17
 LINE _____
 STA _____
 OFFSET _____ ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 653.71
 ACTUAL COORDINATES (N) 1,060,056.640 (E) 1,078,520.770 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 27-SEP-2023 DATE FINISH 27-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
		J1	13	7	2	3%	(0.90) Green-Brown Fine SAND , Gravelly Trace Silt (D-NW)	
		J2	4	2	3	3.9%	(3.50) Green-Brown Fine SAND , Silty Trace Gravel (M-NPL)	
	5.0							
		J3	4	5	7	13.6%	(8.50) Red-Brown Silty CLAY , Gravelly With Sand And Organics (M-PL)	
	10.0							
		J4	3	5	6	13.7%	(13.50) Red-Brown Silty CLAY , Gravelly With Sand And Organics (M-PL)	
	15.0							
		J5	3	4	7	13.8%	(18.50) Red-Brown Silty CLAY , Gravelly With Sand And Organics (M-PL)	
	20.0							
		J6	5	5	6	13.1%	(23.50) Red-Brown Silty CLAY , Gravelly With Sand And Organics (M-PL)	
	25.0							

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-17

SM 282 E 12/02

PSN 12472 BORNUM 45
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-17
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 653.71
 ACTUAL COORDINATES (N) 1,060,056.640 (E) 1,078,520.770 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 27-SEP-2023 DATE FINISH 27-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24	24		
	25.0								
		J7	4	5	7		12.5%	(28.50) Red-Brown Silty CLAY , Gravelly With Sand And Organics (M-PL)	
	30.0								
		J8	2	4	5		25%	(33.50) Red-Brown Silty CLAY , Gravelly With Sand And Organics (M-PL)	
	35.0								
		R1						(37.50) Run #1 Drilled from 37'6" To 42'6" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	40.0								
		R2						(42.50) Run #2 Drilled from 42'6" To 47'6" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	45.0								
		R3						(47.50) Run #3 Drilled from 47'6" To 52'6" ROCK REC. 60" 100% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	50.0								

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-17

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 45
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-17
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,060,056.640 (E) 1,078,520.770 DATUM NAD83 SURF. ELEV. 653.71
DEPTH TO WATER SEE NOTE

DATE START 27-SEP-2023 DATE FINISH 27-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	50.0							
		R4					(52.50) Run #4 Drilled from 52'6" To 57'6" ROCK REC. 53" 88.3% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	55.0							

BOTTOM OF HOLE AT 57.50 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
27-Sep-23	09:25	37.50	37.50	NONE		NO
27-Sep-23	12:35	35.00	0.00	20.00		NO

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-17

SM 282 E 12/02

PSN 12472 BORNUM 25
 REGION 5
 COUNTY ERIE
 PIN 5512.52
 PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
 ACTUAL COORDINATES _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-18
 LINE _____
 STA _____
 OFFSET ft
 SURF. ELEV. 652.3
 DATE START 19-SEP-2023 DATE FINISH 19-SEP-2023
 DATUM NAD83 DEPTH TO WATER SEE NOTE

UNOFFICIAL LOG

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement	
		J1	6	13	5	7	(1.20) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
		J2	8	11	11		(3.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	5.0							
		J3	3	7	9		(8.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	10.0							
		J4	3	5	8		(13.50) Red-Brown Silty CLAY , Gravelly (M-PL)	
	15.0							
		J5	3	5	7		(18.50) Red-Brown Silty CLAY , Gravelly (M-PL)	
	20.0							
		J6	2	3	6		(23.50) Red-Brown Silty CLAY , Gravelly (M-PL)	
	25.0							

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DRILL RIG OPERATOR B. Fletcher
 SOIL & ROCK DESCRIPTION L. Muhammad
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____ REVISION # 1
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-18

PSN 12472 BORNUM 25
 REGION 5
 COUNTY ERIE
 PIN 5512.52
 PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
 ACTUAL COORDINATES _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-18
 LINE _____
 STA _____
 OFFSET ft
 SURF. ELEV. 652.3
 DATE START 19-SEP-2023 DATE FINISH 19-SEP-2023
 DATUM NAD83 DEPTH TO WATER SEE NOTE

UNOFFICIAL LOG

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24	24-30		
25.0									
		J7	3	5	8			(28.50) Red-Brown Silty CLAY , Gravelly (M-PL)	
30.0									
		J8	2	2	6			(33.50) Red-Brown Silty CLAY , Gravelly (M-PL)	
35.0									
		R1						(37.50) Run #1 Drilled from 37'6" To 42'6" ROCK REC. 60" 100% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
40.0									
		R2						(42.50) Run #2 Drilled from 42'6" To 47'6" ROCK REC. 60" 100% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
45.0									
		R3						(47.50) Run #3 Drilled from 47'6" To 52'6" ROCK REC. 60" 100% 12 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
50.0									

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 _____
UNOFFICIAL LOG
 DATE APPROVED _____ REVISION # 1
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

SM 282 E 12/02

PSN 12472 BORNUM 25
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-18
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 652.3
 ACTUAL COORDINATES _____ DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 19-SEP-2023 DATE FINISH 19-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

UNOFFICIAL LOG

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24	24		
	50.0								
		R4						(52.40) Run #4 Drilled From 52'5" To 57'6" ROCK (52.50) Run #4 Drilled from 52'6" To 57'6" ROCK REC. 59" 98.3% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	55.0								

BOTTOM OF HOLE AT 57.50 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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

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DRILL RIG OPERATOR B. Fletcher
 SOIL & ROCK DESCRIPTION L. Muhammad
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____ REVISION # 1
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-18

SM 282 E 12/02

PSN 12472 BORNUM 26
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-20
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 644.96
 ACTUAL COORDINATES (N) 1,060,505.450 (E) 1,078,705.040 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 20-SEP-2023 DATE FINISH 20-SEP-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.50) CONCRETE Pavement	
		J1	8	6	7	17.1%	(1.30) Grey-Brown Silty CLAY , Gravelly With Sand (M-PL)	
		J2	5	8	13	15%	(3.50) Red-Brown Silty CLAY , Gravelly With Sand (M-PL)	
	5.0							
		J3	9	11	17	12.4%	(8.50) Red-Brown Silty CLAY , Gravelly With Sand (M-PL)	
	10.0							
		J4	3	4	6	14.2%	(13.50) Grey-Brown Sandy CLAY , Gravelly (M-PL)	
	15.0							
		J5	WOH	WOH	2	15.7%	(18.50) Red-Brown Sandy CLAY , Gravelly (M-PL)	
	20.0							
		J6	1	2	2	16%	(23.50) Red-Brown Sandy CLAY , Gravelly (M-PL)	
	25.0							

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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. _____



HOLE FH-W-20
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 26
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 644.96
ACTUAL COORDINATES (N) 1,060,505.450 (E) 1,078,705.040 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 20-SEP-2023 DATE FINISH 20-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
25.0									
		J7	3	6	15		12.2%	(28.50) Grey-Brown Silty SAND , Clayey With Gravel (W-LPL)	
30.0									
		R1						(31.00) Run #1 Drilled from 31'0" To 36'0" ROCK REC. 60" 100% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
35.0									
		R2						(36.00) Run #2 Drilled from 36'0" To 41'0" ROCK REC. 60" 100% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
40.0									
		R3						(41.00) Run #3 Drilled from 41'0" To 46'0" ROCK REC. 59" 98.3% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
45.0									
		R4						(46.00) Run #4 Drilled from 46'0" To 51'0" ROCK REC. 59" 98.3% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
50.0									

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. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 26
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-20
STA _____
OFFSET _____ ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 644.96
ACTUAL COORDINATES (N) 1,060,505.450 (E) 1,078,705.040 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 20-SEP-2023 DATE FINISH 20-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	50.0		6	12	18	24			

BOTTOM OF HOLE AT 51.00 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
20-Sep-23	10:25	30.00	28.50	NONE		NO
20-Sep-23	13:05	29.00	0.00	NONE		NO

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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. _____

SM 282 E 12/02

PSN 12472 BORNUM 30
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-19
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 648.08
 ACTUAL COORDINATES (N) 1,060,346.930 (E) 1,078,525.560 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 24-OCT-2023 DATE FINISH 24-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.30) CONCRETE Pavement (0.80) Grey-Brown Sandy GRAVEL (M-PL)	
		J1	13	9	8	4	3%	
		J2	7	5	8	8	15.6%	
	5.0						(3.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
		J3	9	11	14	17	13.1%	
	10.0						(8.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
		J4	4	6	7	8	14.7%	
	15.0						(13.50) Grey-Brown Silty CLAY , Sandy With Gravel (M-PL)	
		J5	2	5	7	12	14.8%	
	20.0						(18.50) Grey-Brown Silty CLAY , Sandy With Gravel (M-PL)	
		J6	7	14	13		15.2%	
	25.0						(23.50) Grey-Brown Silty CLAY , Gravelly (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 Al Linstruth
 SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
 REG GEOTECHNICAL ENGINEER Todd E. Nelson
 DATE APPROVED 29-NOV-2023
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-19

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-19
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 30
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 648.08
ACTUAL COORDINATES (N) 1,060,346.930 (E) 1,078,525.560 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 24-OCT-2023 DATE FINISH 24-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0						15		
		J7	4					19%	(28.50) Grey-Brown Silty CLAY , Gravelly (M-PL)
	30.0	R1		REF					(29.00) Run #1 Drilled from 29'0" To 34'0" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	35.0	R2							(34.00) Run #2 Drilled from 34'0" To 39'0" ROCK REC. 60" 100% 12 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	40.0	R3							(39.00) Run #3 Drilled from 39'0" To 44'0" ROCK REC. 60" 100% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	45.0	R4							(44.00) Run #4 Drilled from 44'0" To 49'0" ROCK REC. 60" 100% 11 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"

BOTTOM OF HOLE AT 49.00 ft

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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 _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-19

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 30
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-19
STA _____
OFFSET _____ ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 648.08
ACTUAL COORDINATES (N) 1,060,346.930 (E) 1,078,525.560 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 24-OCT-2023 DATE FINISH 24-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
24-Oct-23	09:56	29.00	29.00	NONE		NO

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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 _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-19

SM 282 E 12/02

PSN 12472 BORNUM 31
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-21
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 641.71
 ACTUAL COORDINATES (N) 1,060,638.840 (E) 1,078,531.760 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 16-OCT-2023 DATE FINISH 16-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
		J1	16	22	10	3.3%	(0.90) Grey-Brown Silty SAND , Gravelly (D-LW)	
		J2	11	6	10	.9%	(3.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	5.0							
		J3	6	12	18	12.9%	(8.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	10.0							
		J4	4	6	8	13.4%	(13.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	15.0							
		J5	3	5	7		(18.50) NO RECOVERY	
	20.0							
		J6	3	5	27	15.1%	(23.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	25.0							

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DRILL RIG OPERATOR Brian Fletcher
 SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
 REG GEOTECHNICAL ENGINEER Todd E. Nelson
 DATE APPROVED 01-DEC-2023
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-21



HOLE LINE STA
FH-W-21

OFFSET ft

PSN 12472 BORNUM 31
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 641.71
ACTUAL COORDINATES (N) 1,060,638.840 (E) 1,078,531.760 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 16-OCT-2023 DATE FINISH 16-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
25.0									
		R1						(26.00) Run #1 Drilled from 26'0" To 31'0" ROCK REC. 60" 100% 11 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
30.0									
		R2						(31.00) Run #2 Drilled from 31'0" To 36'0" ROCK REC. 60" 100% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
35.0									
		R3						(36.00) Run #3 Drilled from 36'0" To 41'0" ROCK REC. 59" 98.3% 12 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
40.0									
		R4						(41.00) Run #4 Drilled from 41'0" To 46'0" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
45.0									

BOTTOM OF HOLE AT 46.00 ft

1. Autohammer used for SPT at all sampling depths.
2. Bore hole backfilled with spoils upon completion.
3. Attempted split spoon sample at 18.5', no recovery

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DRILL RIG OPERATOR Brian Fletcher
SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 01-DEC-2023
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 31
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-21
STA _____
OFFSET _____ ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 641.71
ACTUAL COORDINATES (N) 1,060,638.840 (E) 1,078,531.760 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 16-OCT-2023 DATE FINISH 16-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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DRILL RIG OPERATOR Brian Fletcher
SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 01-DEC-2023
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-21

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-22
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 32
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,060,816.900 (E) 1,078,699.060 DATUM NAD83 SURF. ELEV. 639.44
DEPTH TO WATER SEE NOTE

DATE START 02-OCT-2023 DATE FINISH 02-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
							(0.70) CONCRETE Pavement	
		J1	24	34	28	16	2.8% (1.40) Grey-Brown Sandy GRAVEL, Silty (D-NW)	
		J2	9	6	5	7	13.3% (3.50) Grey-Brown Silty CLAY, Sandy (M-LPL)	
	5.0							
		J3	5	7	7	10	16.2% (8.50) Red-Brown Silty CLAY, Sandy (M-LPL)	
	10.0							
		J4	3	3	5	7	13.1% (13.50) Red-Brown Silty CLAY, Gravelly (M-LPL)	
	15.0							
		J5	7	9	6	8	13.7% (18.50) Red-Brown Silty CLAY, Gravelly (M-LPL)	
	20.0							
		J6	6	7	9		13.2% (23.50) Red-Brown Silty CLAY, Gravelly (M-LPL)	
	25.0							

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DRILL RIG OPERATOR 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-22

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 32
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-22
LINE
STA
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 639.44
ACTUAL COORDINATES (N) 1,060,816.900 (E) 1,078,699.060 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 02-OCT-2023 DATE FINISH 02-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0	R1	6	12	18	24	16	(25.40) Run #1 Drilled from 25'5" To 30'5" ROCK REC. 60" 100% 13 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	30.0	R2						(30.40) Run #2 Drilled from 30'5" To 35'5" ROCK REC. 60" 100% 14 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	35.0	R3						(35.40) Run #3 Drilled from 35'5" To 40'5" ROCK REC. 57" 95% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	40.0	R4						(40.40) Run #4 Drilled from 40'5" To 45'5" ROCK REC. 58" 96.7% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	45.0								

BOTTOM OF HOLE AT 45.40 ft

1. Autohammer used for SPT at all sampling depths.
2. Bore hole backfilled with spoils upon completion.
3. Sampler refusal at 25.4'.

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DRILL RIG OPERATOR 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.

CONTRACT CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-22

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 32
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-22
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 639.44
ACTUAL COORDINATES (N) 1,060,816.900 (E) 1,078,699.060 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 02-OCT-2023 DATE FINISH 02-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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DRILL RIG OPERATOR 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-22

SM 282 E 12/02

PSN 12472 BORNUM 33
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-24
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 637.08
 ACTUAL COORDINATES (N) 1,061,018.380 (E) 1,078,533.780 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 12-OCT-2023 DATE FINISH 13-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
							(0.70) CONCRETE Pavement	
							(2.00) Red-Brown Silty CLAY , Sandy (D-PW)	
		J1	3	4	4	5	18%	
	5.0							
		J2	4	6	7	12	15.6%	
	10.0							
		J3	1	2	2	4	17.5%	
	15.0						(13.50) Red-Brown Silty CLAY , Sandy (M-PL)	
		J4	1	2	4	5	13.9%	
	20.0						(18.50) Red-Grey Silty CLAY , Sandy (W-PL)	
		R1					(23.10) Run #1 Drilled from 23'1" To 28'1" ROCK REC. 59" 98.3% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	25.0							

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DRILL RIG OPERATOR 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. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 33
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE STA FH-W-24
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,061,018.380 (E) 1,078,533.780 DATUM NAD83
DATE START 12-OCT-2023 DATE FINISH 13-OCT-2023
SURF. ELEV. 637.08 DEPTH TO WATER SEE NOTE

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0								
		R2						(28.10) Run #2 Drilled from 28'1" To 33'1" ROCK REC. 59" 98.3% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	30.0								
		R3						(33.10) Run #3 Drilled from 33'1" To 38'1" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	35.0								
		R4						(38.10) Run #4 Drilled from 38'1" To 43'1" ROCK REC. 60" 100% 8 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	40.0								

BOTTOM OF HOLE AT 43.10 ft

1. Autohammer used for SPT at all sampling depths.
2. Lost drill water at 32.8'
3. Bore hole backfilled with spoils upon completion.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
12-Oct-23	16:15	23.10	23.10	22.90		NO
13-Oct-23	08:15	23.10	23.10	10.20		NO
13-Oct-23	11:45	43.10	23.10	26.10		NO

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DRILL RIG OPERATOR 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-W-24

SM 282 E 12/02

PSN 12472 BORNUM 35
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-25
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 637.07
 ACTUAL COORDINATES (N) 1,061,227.390 (E) 1,078,699.660 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 03-OCT-2023 DATE FINISH 03-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement	
		J1	9	8	7	6	3.3% (1.30) Grey-Brown Sandy GRAVEL, Silty (D-LW)	
		J2	4	3	3	2	2.2% (3.50) Grey-Brown Sandy GRAVEL, Silty (D-LW)	
	5.0							
		J3	7	8	10	11	15.5% (8.50) Red-Brown Silty CLAY, Sandy With Gravel (M-PL)	
	10.0							
		J4	3	3	3	4	17.4% (13.50) Red-Brown Silty CLAY, Sandy With Gravel (M-PL)	
	15.0							
		J5	2	2	4	5	18.8% (18.50) Red-Brown Silty CLAY, Sandy With Gravel (M-PL)	
	20.0							
		R1					(22.00) Run #1 Drilled from 22'0" To 27'0" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	25.0							

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DRILL RIG OPERATOR 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 2 HOLE FH-W-25

SM 282 E 12/02

PSN 12472 BORNUM 35
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-25
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 637.07
 ACTUAL COORDINATES (N) 1,061,227.390 (E) 1,078,699.660 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 03-OCT-2023 DATE FINISH 03-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
25.0								
		R2					(27.00) Run #2 Drilled from 27'0" To 32'0" ROCK REC. 58" 96.7% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
30.0								
		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								

BOTTOM OF HOLE AT 42.00 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
04-Oct-23	08:10	22.00	22.00	21.00		NO
04-Oct-23	11:45	42.00	22.00	28.90		NO

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DRILL RIG OPERATOR 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-W-25

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-26
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 34
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,061,418.500 (E) 1,078,543.960 DATUM NAD83 SURF. ELEV. 635.62
DEPTH TO WATER SEE NOTE

DATE START 12-OCT-2023 DATE FINISH 12-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
							(1.40) CONCRETE Pavement	
							(2.00) Red-Brown-Grey Sandy GRAVEL (M-NPL)	
		J1	3	4	7	21.2%		
	5.0				9			
		J2	3	5	5	18.9%	(8.50) Red-Brown Silty CLAY, Sandy (M-PL)	
	10.0				7			
		J3	2	2	3	21.8%	(13.50) Red-Brown Silty CLAY, Gravelly (M-PL)	
	15.0				3			
		J4 REF				15.2%	(18.50) Red-Brown Silty CLAY, Sandy With Gravel (M-PL)	
	20.0	R1					(18.80) Run #1 Drilled from 18'10" To 23'10" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
		R2					(23.80) Run #2 Drilled from 23'10" To 28'10" ROCK REC. 59" 98.3% 7 Pieces	
	25.0							

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 01-DEC-2023
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 34
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-W-26
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 635.62
ACTUAL COORDINATES (N) 1,061,418.500 (E) 1,078,543.960 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 12-OCT-2023 DATE FINISH 12-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0							NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	30.0	R3						(28.80) Run #3 Drilled from 28'10" To 33'10" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	35.0	R4						(33.80) Run #4 Drilled from 33'10" To 38'10" ROCK REC. 60" 100% 5 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	

BOTTOM OF HOLE AT 38.80 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
12-Oct-23	09:50	18.80	18.50	NONE		NO

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DRILL RIG OPERATOR 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-W-26

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-28
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 42
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 634.94
ACTUAL COORDINATES (N) 1,061,588.910 (E) 1,078,700.050 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 05-OCT-2023 DATE FINISH 05-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
0.0							(0.00) ASPHALT Pavement (0.30) CONCRETE Pavement	
		J1	5	8	8	6	4.2% (1.60) Grey-Brown Gravelly SAND , Silty (D-LW)	
		J2	7	4	3	3	19.7% (3.60) Red-Brown Silty CLAY , Sandy With Organics (M-PL)	
5.0								
		J3	2	3	3	4	19.4% (8.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
10.0								
		J4	2	2	2	4	16.8% (13.50) Red-Brown Silty CLAY , Gravelly (M-PL)	
15.0								
		R1					(17.30) Run #1 Drilled from 17'4" To 22'4" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
20.0								
		R2					(22.30) Run #2 Drilled from 22'4" To 27'4" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
25.0								

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 05-DEC-2023
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE LINE STA
FH-W-28

OFFSET ft

PSN 12472 BORNUM 42
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 634.94
ACTUAL COORDINATES (N) 1,061,588.910 (E) 1,078,700.050 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 05-OCT-2023 DATE FINISH 05-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	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

1. Autohammer used for SPT at all sampling depths.
2. 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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

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DRILL RIG OPERATOR Gary Richards
SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 05-DEC-2023
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-W-28

SM 282 E 12/02

PSN 12472 BORNUM 40
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-29
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 634.61
 ACTUAL COORDINATES (N) 1,061,700.950 (E) 1,078,538.370 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 19-OCT-2023 DATE FINISH 19-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
		J1	11	6	3		(1.00) Grey-Brown Sandy GRAVEL , Silty (D-NW)	
		J2	4	6	9	18.1%	(3.50) Red-Brown-Grey Silty CLAY , Sandy (M-PL)	
	5.0							
		J3	5	6	8	16%	(8.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	10.0							
		J4	2	3	4	17.4%	(13.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	15.0							
		J5	2	4	7	16.4%	(18.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	20.0							
		J6	16	16	20	11.4%	(23.50) Brown-Grey Sandy SILT , Gravelly (W-LPL)	
	25.0							

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 Beau Fletcher
 SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
 REG GEOTECHNICAL ENGINEER Todd E. Nelson
 DATE APPROVED 01-DEC-2023
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Asscoiates

SHEET 1 OF 3 HOLE FH-W-29

SM 282 E 12/02

PSN 12472 BORNUM 40
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-29
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 634.61
 ACTUAL COORDINATES (N) 1,061,700.950 (E) 1,078,538.370 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 19-OCT-2023 DATE FINISH 19-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0	R1						(25.60) Run #1 Drilled from 25'7" To 30'7" ROCK REC. 60" 100% 11 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	30.0	R2						(30.60) Run #2 Drilled from 30'7" To 35'7" ROCK REC. 60" 100% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	35.0	R3						(35.60) Run #3 Drilled from 35'7" To 40'7" ROCK REC. 60" 100% 6 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	40.0	R4						(40.60) Run #4 Drilled from 40'7" To 45'7" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	45.0								

BOTTOM OF HOLE AT 45.60 ft

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

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DRILL RIG OPERATOR Beau Fletcher
 SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
 REG GEOTECHNICAL ENGINEER Todd E. Nelson
 DATE APPROVED 01-DEC-2023
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3

HOLE FH-W-29

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 40
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-29
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 634.61
ACTUAL COORDINATES (N) 1,061,700.950 (E) 1,078,538.370 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 19-OCT-2023 DATE FINISH 19-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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DRILL RIG OPERATOR Beau Fletcher
SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 01-DEC-2023
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Asscoiates

SHEET 3 OF 3 HOLE FH-W-29

SM 282 E 12/02

PSN 12472 BORNUM 38
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-30
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 633.65
 ACTUAL COORDINATES (N) 1,061,847.730 (E) 1,078,700.340 DATUM NAD83 DEPTH TO WATER NONE

DATE START 10-OCT-2023 DATE FINISH 10-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
							(0.60) CONCRETE Pavement	
		J1	22	18	10	6	2.8% (1.40) Grey-Brown Silty SAND , Gravelly With Concrete (D-LW)	
		J2	6	3	4	6	8.2% (3.50) Grey-Brown Silty CLAY , Sandy With Gravel (D-PW)	
	5.0							
		J3	4	3	3	3	21.3% (8.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	10.0							
		J4	1	1	1	2	20.8% (13.50) Red-Brown Silty CLAY , With Gravel (M-PL)	
	15.0							
		J5	6	8	6	7	7.9% (18.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	20.0							
		J6	57	REF			3% (23.50) Grey-Brown Silty SAND , Gravelly (D-LW)	
	25.0							

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DRILL RIG OPERATOR 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-W-30

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 38
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-30
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 633.65
ACTUAL COORDINATES (N) 1,061,847.730 (E) 1,078,700.340 DATUM NAD83 DEPTH TO WATER NONE

DATE START 10-OCT-2023 DATE FINISH 10-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0	R1						(25.30) Run #1 Drilled from 25'4" To 30'4" ROCK REC. 60" 100% 12 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	30.0	R2						(30.30) Run #2 Drilled from 30'4" To 35'4" ROCK REC. 60" 100% 11 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	35.0	R3						(35.30) Run #3 Drilled from 35'4" To 40'4" ROCK REC. 60" 100% 12 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	40.0	R4						(40.30) Run #4 Drilled from 40'4" To 45'4" ROCK REC. 60" 100% 14 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	45.0								

BOTTOM OF HOLE AT 45.30 ft

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

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DRILL RIG OPERATOR 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-W-30

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 38
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-30
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 633.65
ACTUAL COORDINATES (N) 1,061,847.730 (E) 1,078,700.340 DATUM NAD83 DEPTH TO WATER NONE

DATE START 10-OCT-2023 DATE FINISH 10-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		

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

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DRILL RIG OPERATOR 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-W-30

SM 282 E 12/02

PSN 12472 BORNUM 47
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-31
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
 SURF. ELEV. 634.22
 ACTUAL COORDINATES (N) 1,062,152.330 (E) 1,078,536.940 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 18-OCT-2023 DATE FINISH 18-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement (1.00) Grey-Brown Sandy GRAVEL , With Concrete (D-NW)	
		J1	28	13	5	3.1%		
		J2	5	7	10	18.4%	(3.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	5.0							
		J3	2	4	6	18.5%	(8.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	10.0							
		J4	1	3	3	21.3%	(13.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	15.0							
		R1					(17.20) Run #1 Drilled from 17'2" To 22'2" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	20.0							
		R2					(22.20) Run #2 Drilled from 22'2" To 27'2" ROCK REC. 60" 100% 11 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	25.0							

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 Beau 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 2 HOLE FH-W-31

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 47
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE STA FH-W-31
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 634.22
ACTUAL COORDINATES (N) 1,062,152.330 (E) 1,078,536.940 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 18-OCT-2023 DATE FINISH 18-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0								
		R3						(27.20) Run #3 Drilled from 27'2" To 32'2" ROCK REC. 60" 100% 24 pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	30.0								
		R4						(32.20) Run #4 Drilled from 32'2" To 37'2" ROCK REC. 57" 95% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	35.0								

BOTTOM OF HOLE AT 37.20 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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.

DRILL RIG OPERATOR Beau 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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-W-31

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 43
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-33
LINE
STA
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,062,327.530 (E) 1,078,708.240 DATUM NAD83 SURF. ELEV. 633.25
DEPTH TO WATER SEE NOTE

DATE START 11-OCT-2023 DATE FINISH 11-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.30) CONCRETE Pavement	
		J1	10	8	4	2	4% (1.30) Grey-Brown Sandy GRAVEL, Silty (D-LW)	
		J2	3	3	6	6	17.7% (3.50) Red-Brown Silty CLAY, Gravelly (M-PL)	
	5.0							
		J3	8	6	6	5	8% (8.50) Red-Brown GRAVEL, Silty (M-LPL)	
	10.0							
		J4 REF					7.7% (13.50) CONCRETE (D-NW)	

BOTTOM OF HOLE AT 13.60 ft

1. Autohammer used for SPT at all sampling depths.
2. Bore hole backfilled with spoils upon completion.
3. 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
11-Oct-23	10:15	13.60	13.50	NONE		NO
11-Oct-23	11:05	6.00	0.00	NONE		NO

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DRILL RIG OPERATOR Gary Richards
SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 05-DEC-2023
RESIDENT ENGINEER
STRUCTURE NAME B.I.N.

CONTRACT CONTRACTOR CME Associates

SHEET 1 OF 1 HOLE FH-W-33

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE LINE STA _____
FH-W-33a

PSN 12472 BORNUM 44
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,062,396.410 (E) 1,078,735.640 DATUM NAD83
DATE START 25-OCT-2023 DATE FINISH 25-OCT-2023
SURF. ELEV. 633.23 DEPTH TO WATER SEE NOTE

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement (D-NW) (0.60) Brown Gravelly SAND, Silty	
		J1	1	3	5	7	11.6%	
		J2	6	7	9	13	20.8%	(3.50) Red-Brown Silty CLAY, Sandy With Gravel (M-PL)
	5.0							
		J3	5	7	7	9	19.6%	(8.50) Red-Brown Silty CLAY, Sandy With Gravel (M-PL)
	10.0							
		J4	2	2	2	3	21.6%	(13.50) Red-Brown Silty CLAY (M-PL)
	15.0							
		R1						(16.30) Run #1 Drilled from 16'4" To 21'4" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	20.0							
		R2						(21.30) Run #2 Drilled from 21'4" To 26'4" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"
	25.0							

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 05-DEC-2023
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

SM 282 E 12/02

PSN 12472 BORNUM 44
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE LINE STA FH-W-33a
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 633.23
 ACTUAL COORDINATES (N) 1,062,396.410 (E) 1,078,735.640 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 25-OCT-2023 DATE FINISH 25-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	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"	
	30.0								
		R4						(31.30) Run #4 Drilled from 31'4" To 36'4" ROCK REC. 60" 100% 13 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	35.0								

BOTTOM OF HOLE AT 36.30 ft

1. Autohammer used for SPT at all sampling depths.
2. 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
25-Oct-23	09:15	16.30	16.30	NONE		NO

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DRILL RIG OPERATOR Al Linstruth
 SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
 REG GEOTECHNICAL ENGINEER Todd E. Nelson
 DATE APPROVED 05-DEC-2023
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-W-33a

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-W-35
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 48
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,062,567.990 (E) 1,078,546.450 DATUM NAD83 SURF. ELEV. 634.95
DEPTH TO WATER SEE NOTE

DATE START 11-OCT-2023 DATE FINISH 11-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement	
							(1.20) CONCRETE Pavement	
							(1.80) Red-Brown Sandy SILT , Gravelly (M-LPL)	
	5.0	J1	7	10	13	15	17.5%	
	10.0	J2	7	10	10	11	22.2%	
	15.0	J3	2	4			11.1%	
		R1			REF		(14.50) Run #1 Drilled from 14'6" To 19'6" ROCK REC. 60" 100% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	20.0	R2					(19.50) Run #2 Drilled from 19'6" To 24'6" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	25.0	R3					(24.50) Run #3 Drilled from 24'6" To 29'6" ROCK	

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DRILL RIG OPERATOR Gary Richards
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.

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 48
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-35
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 634.95
ACTUAL COORDINATES (N) 1,062,567.990 (E) 1,078,546.450 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 11-OCT-2023 DATE FINISH 11-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0		6	12	18	24		(25.50) REC. 60" 100% 10 Pieces 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

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

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

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DRILL RIG OPERATOR Gary Richards
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 2 OF 2 HOLE FH-W-35

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-X-36
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 39
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,713.080 (E) 1,078,426.170 DATUM NAD83 SURF. ELEV. 655.81
DEPTH TO WATER SEE NOTE

DATE START 17-OCT-2023 DATE FINISH 17-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.30) SLAG Subbase (0.80) Brown Silty SAND , Gravelly (M-LPL)	
		J1	8	9	9	11	11.5%	
		J2	8	6	9	11	23.4%	(3.00) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)
	5.0							
		J3	5	7	10		13.6%	(8.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)
	10.0							
		J4	8	8	11		13.7%	(13.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)
	15.0							
		J5	2	4	7		14.4%	(18.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)
	20.0							
		J6	3	4	4		16.6%	(23.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)
	25.0							

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DRILL RIG OPERATOR Brian Fletcher
SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 05-DEC-2023
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-X-36
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 39
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,713.080 (E) 1,078,426.170 DATUM NAD83 SURF. ELEV. 655.81
DEPTH TO WATER SEE NOTE

DATE START 17-OCT-2023 DATE FINISH 17-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
25.0								
		J7	2	3	5	14.7%	(28.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
30.0								
		J8	4	4	5	29.9%	(33.50) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
35.0								
		J9	WOH	WOH	2	27.8%	(38.50) Red-Brown Silty CLAY , Sandy (M-PL)	
40.0								
		R1					(40.40) Run #1 Drilled from 40'5" To 45'5" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
45.0								
		R2					(45.40) Run #2 Drilled from 45'5" To 50'5" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
50.0								

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DRILL RIG OPERATOR Brian Fletcher
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 LINE STA _____
FH-X-36

PSN 12472 BORNUM 39
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.81

ACTUAL COORDINATES (N) 1,059,713.080 (E) 1,078,426.170 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 17-OCT-2023 DATE FINISH 17-OCT-2023

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
50.0								

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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
17-Oct-23	14:10	40.40	40.40	NONE		NO

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DRILL RIG OPERATOR Brian Fletcher
SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 05-DEC-2023
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-X-37
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 49
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 652.78
ACTUAL COORDINATES (N) 1,060,123.370 (E) 1,078,477.010 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 17-OCT-2023 DATE FINISH 17-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Red-Brown Silty CLAY , Sandy Gravel (M-PL)	
		J1	3	5	6	18.6%		
		J2	6	9	12	11.9%	(3.50) Red-Brown Silty CLAY , Sandy Gravel (M-PL)	
	5.0							
		J3	4	11	16	12.9%	(8.50) Red-Brown Silty CLAY , Sandy Gravel (M-PL)	
	10.0							
		J4	7	10	12	15.2%	(13.50) Red-Brown Silty CLAY , Sandy Gravel (M-PL)	
	15.0							
		J5	4	6	7	16.9%	(18.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	20.0							
		J6	4	6	7	12.5%	(23.50) Red-Brown-Grey Silty CLAY , Sandy Gravel (M-PL)	
	25.0							

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 3 HOLE FH-X-37

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 49
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-X-37
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 652.78
ACTUAL COORDINATES (N) 1,060,123.370 (E) 1,078,477.010 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 17-OCT-2023 DATE FINISH 17-OCT-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0							
		J7	12	12	10	11.2%	(28.50) Grey-Brown Silty GRAVEL , Sandy (W-LPL)	
	30.0							
		J8	3	5	6	14.8%	(33.50) Red-Brown Silty CLAY , Sandy (M-PL)	
	35.0							
		R1					(36.20) Run #1 Drilled from 36'2" To 41'2" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	40.0							
		R2					(41.20) Run #2 Drilled from 41'2" To 46'2" ROCK REC. 60" 100% 9 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	45.0							

BOTTOM OF HOLE AT 46.20 ft

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

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 3 HOLE FH-X-37

SM 282 E 12/02

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 49
 REGION 5
 COUNTY ERIE
 PIN 5512.52

HOLE FH-X-37
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 652.78
 ACTUAL COORDINATES (N) 1,060,123.370 (E) 1,078,477.010 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 17-OCT-2023 DATE FINISH 17-OCT-2023
 CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 3 OF 3 HOLE FH-X-37

SM 282 E 12/02

PSN 12472 BORNUM 36
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-W-38
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 653.46
 ACTUAL COORDINATES (N) 1,059,119.950 (E) 1,078,471.880 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 18-OCT-2023 DATE FINISH 18-OCT-2023
 CASING O. D. 7 5/8 in I. D. 4 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 3 1/2 in I. D. _____ in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0		6	12	18	24	(0.00) No Sample SEE NOTES	
	5.0							
	10.0							
	15.0							
	20.0							
	25.0	T1					(23.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	

BOTTOM OF HOLE AT 25.00 ft

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DRILL RIG OPERATOR Beau Fletcher
 SOIL & ROCK DESCRIPTION NA
 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 2 HOLE FH-W-38



PSN 12472 BORNUM 36
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-38
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 653.46
ACTUAL COORDINATES (N) 1,059,119.950 (E) 1,078,471.880 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 18-OCT-2023 DATE FINISH 18-OCT-2023
CASING O. D. 7 5/8 in I. D. 4 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 3 1/2 in I. D. _____ in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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DRILL RIG OPERATOR Beau Fletcher
SOIL & ROCK DESCRIPTION NA
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 05-DEC-2023 REVISION # 1
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

SM 282 E 12/02

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 37
 REGION 5
 COUNTY ERIE
 PIN 5512.52

HOLE FH-W-39
 LINE _____
 STA _____
 OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 655.29
 ACTUAL COORDINATES (N) 1,059,287.110 (E) 1,078,525.540 DATUM NAD83 DEPTH TO WATER NONE

DATE START 18-OCT-2023 DATE FINISH 18-OCT-2023
 CASING O. D. 7 5/8 in I. D. 4 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 3 1/2 in I. D. _____ in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	0.0		6	12	18	24		(0.00) NO SAMPLE	
	5.0								
	10.0								
	15.0								
	20.0								
	25.0								

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DRILL RIG OPERATOR B. Fletcher
 SOIL & ROCK DESCRIPTION _____
 REG GEOTECHNICAL ENGINEER Todd E. Nelson
 DATE APPROVED 05-DEC-2023
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 2 HOLE FH-W-39

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 37
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-W-39
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,287.110 (E) 1,078,525.540 DATUM NAD83 SURF. ELEV. 655.29
DEPTH TO WATER NONE

DATE START 18-OCT-2023 DATE FINISH 18-OCT-2023
CASING O. D. 7 5/8 in I. D. 4 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 3 1/2 in I. D. _____ in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	25.0								
	30.0								
	35.0							(33.00) NO RECOVERY	
		T1						(35.50) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	

BOTTOM OF HOLE AT 37.50 ft

- 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.

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DRILL RIG OPERATOR B. Fletcher
SOIL & ROCK DESCRIPTION _____
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 05-DEC-2023
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-W-39



HOLE FH-X-7
LINE _____
STA _____
OFFSET ft _____

PSN 12472 BORNUM 17
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,121.830 (E) 1,078,361.960 DATUM NAD83 SURF. ELEV. 633.4
DEPTH TO WATER SEE NOTE

DATE START 13-SEP-2023 DATE FINISH 13-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT (0.30) CONCRETE	
		J1	6	19	13	9	12.7% (1.00) Red-Brown Gravelly SAND , Clayey (M-LPL)	
	5.0	J2	5	5	5	5	15.4% (4.00) Red-Brown Silty CLAY , Sandy With Gravel (M-PL)	
	10.0	J3	3	2	3	3	23.2% (9.00) Red-Brown Silty CLAY , Sandy (M-PL)	
	15.0	J4	2	2	2		8.1% (14.00) Red-Brown Silty CLAY , Gravelly With Sand (M-PL)	
	20.0	R1				REF	(15.80) Run #1 Drilled from 15'10" To 20'10" ROCK REC. 57" 95% 18 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	25.0	R2					(20.80) Run #2 Drilled from 20'10" To 25'10" ROCK REC. 60" 100% 7 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	

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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 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 17
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE FH-X-7
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 633.4
ACTUAL COORDINATES (N) 1,059,121.830 (E) 1,078,361.960 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 13-SEP-2023 DATE FINISH 13-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24		

BOTTOM OF HOLE AT 25.80 ft

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

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

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-X-7

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE LINE STA _____
FH-X-7e

PSN 12472 BORNUM 18
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,059,135.300 (E) 1,078,367.360 DATUM NAD83
DATE START 13-SEP-2023 DATE FINISH 13-SEP-2023
SURF. ELEV. 633.4
DEPTH TO WATER SEE NOTE

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb
SAMPLER O. D. 3 in I. D. 2 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-CASING in
HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
0.0							(0.00) ASPHALT (0.30) CONCRETE	
		J1	11	36	21	22	(1.10) Brown SAND , Trace Silt (D-NW)	
		J2	22	16	15		(3.00) Brown SAND (D-NW)	
5.0		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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
13-Sep-23	11:00	9.00	7.00	NONE		NO

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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.

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 1 HOLE FH-X-7e



HOLE LINE STA _____
FH-X-23

PSN 12472 BORNUM 14
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,060,938.230 (E) 1,078,607.090 DATUM NAD83 SURF. ELEV. 620.3
DEPTH TO WATER SEE NOTE

DATE START 07-SEP-2023 DATE FINISH 07-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement	
		J1	15	25	43	46	6.4% (1.20) Gray-Brown Fine Sandy GRAVEL (M-NPL)	
	5.0	J2	3	3	3		13.6% (4.50) Gray-Brown Fine Sandy CLAY, Gravelly (M-PL)	

REF BOTTOM OF HOLE AT 6.00 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.

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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 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE LINE STA
FH-X-23e

OFFSET ft

PSN 12472 BORNUM 10
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 620.3
ACTUAL COORDINATES (N) 1,060,966.650 (E) 1,078,607.710 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 07-SEP-2023 DATE FINISH 07-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 3 in I. D. 2 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
	0.0							(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement	
		J1	18	37	50			(1.20) Gray-Brown Well Graded SAND , Silty With Gravel, Trace Slag (D-NW) (2.30) Gray-Brown GRAVEL , Sandy With Silt (M-NPL)	
	5.0	J2	6	9	13	16		(4.00) Red-Brown Silty CLAY (M-PL)	
	10.0	R1						(6.00) Run #1 Drilled from 6'0" To 11'0" ROCK REC. 60" 100% 12 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	15.0	R2						(11.00) Run #2 Drilled from 11'0" To 16'0" ROCK REC. 60" 100% 15 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	

BOTTOM OF HOLE AT 16.00 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. 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
07-Sep-23	13:30	16.00	6.00	NONE		NO

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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. _____

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 1 HOLE FH-X-23e

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-X-27
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 15
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,061,470.320 (E) 1,078,608.460 DATUM NAD83 SURF. ELEV. 617.6
DEPTH TO WATER SEE NOTE

DATE START 07-SEP-2023 DATE FINISH 07-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 3 in I. D. 2 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24	24		
	0.0							(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement	
		J1	15	27	46	REF	3.7%	(1.10) Gray-Brown Fine Sandy GRAVEL With Pieces Of Concrete (M-NPL)	
		J2	50				11.3%	(3.50) Gray Decomposed SHALE (M-NPL)	

BOTTOM OF HOLE AT 3.60 ft

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

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

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 1 HOLE FH-X-27



HOLE LINE STA
FH-X-27e

OFFSET ft

PSN 12472 BORNUM 11
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,061,501.670 (E) 1,078,608.560 DATUM NAD83 SURF. ELEV. 617.6
DEPTH TO WATER SEE NOTE

DATE START 06-SEP-2023 DATE FINISH 06-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 3 in I. D. 2 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
0.0							(0.00) ASPAHLT Pavement (0.40) CONCRETE Pavement	
		J1	15	24	46	61	3.7% (1.10) Gray-Brown Well-Graded SAND , Gravelly, Trace Slag (D-NW)	
		J2	23	21	50		11.3% (3.10) Gray-Brown Well-Graded GRAVEL , Sandy, Trace Silt (D-NW)	
5.0		J3	60					
		R1					(6.20) Run #1 Drilled from 6'2" To 11'2" ROCK REC. 58" 96.7% 15 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
10.0		R2					(11.20) Run #2 Drilled from 11'2" To 16'2" ROCK REC. 24" 40% 15 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
15.0								

BOTTOM OF HOLE AT 16.20 ft

- This boring was taken to provide overburden material for environmental screening, and a 3" split spoon sampler was used.
- As all material was provided to consultant labs for testing, soil descriptions listed here are based solely on the field callouts. Please refer to nearby boring FH-X-27 for soil descriptions and moisture content data.
- Sampler progressed 1" with 50 blows at 4'.
- Sampler progressed 5" with 60 blows at 5'.
- 2.7" diameter piece of gravel recovered in J3
- Lost water return at 9.9'
- Bore hole backfilled with spoils upon completion
*Revised to add core barrel data

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DRILL RIG OPERATOR A. Linstruth
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.

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 11
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE FH-X-27e
LINE _____
STA _____
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 617.6
ACTUAL COORDINATES (N) 1,061,501.670 (E) 1,078,608.560 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 06-SEP-2023 DATE FINISH 06-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
SAMPLER O. D. 3 in I. D. 2 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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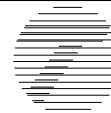
DRILL RIG OPERATOR A. Linstruth
SOIL & ROCK DESCRIPTION Larry Muhammad Sr.
REG GEOTECHNICAL ENGINEER Todd E. Nelson
DATE APPROVED 28-NOV-2023 REVISION # 2
RESIDENT ENGINEER _____
STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 2 OF 2 HOLE FH-X-27e

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 7
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE STA FH-X-32
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,062,205.420 (E) 1,078,609.130 DATUM NAD83 SURF. ELEV. 618.3
DATE START 11-SEP-2023 DATE FINISH 11-SEP-2023 DEPTH TO WATER SEE NOTE

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24	24		
	0.0							(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement	
		J1	8	22			11.9%	(1.00) Grey-Brown Gravelly SAND (M-NPL)	
		R1			27			(2.50) Run #1 Drilled from 2'6" To 7'6" ROCK REC. 60" 100% 13 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	5.0								
		R2						(7.50) Run #2 Drilled from 7'6" To 12'6" ROCK REC. 60" 100% 13 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	10.0								

BOTTOM OF HOLE AT 12.50 ft

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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
11-Sep-23	15:40	12.50	2.50	11.50		NO

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DRILL RIG OPERATOR A. Linstruth
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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 1 HOLE FH-X-32

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



HOLE FH-X-34
LINE _____
STA _____
OFFSET _____ ft

PSN 12472 BORNUM 16
REGION 5
COUNTY ERIE
PIN 5512.52

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION SURF. ELEV. 625.14
ACTUAL COORDINATES (N) 1,062,447.050 (E) 1,078,610.140 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 11-SEP-2023 DATE FINISH 11-SEP-2023
CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 3 in I. D. 2 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24	24		
	0.0							(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement	
		J1	20	40	50		13.1%	(1.10) Gray-Brown Gravelly SAND (M-NPL)	
		J2	23	50			11.1%	(3.50) Gray-Brown Sandy GRAVEL (M-NPL)	
	5.0								

BOTTOM OF HOLE AT 6.10 ft

1. 3" split spoon sampler was used.
2. Sampler progressed 3" with 50 blows at 2'.
3. Sampler progressed 5" with 50 blows at 4'.
4. No rock core drilled on this boring.
5. Bore hole backfilled with spoils upon completion.

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

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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. _____

CONTRACT _____ CONTRACTOR CME Associates

SHEET 1 OF 1 HOLE FH-X-34

SM 282 E 12/02

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING BUREAU
SUBSURFACE EXPLORATION LOG



PSN 12472 BORNUM 12
REGION 5
COUNTY ERIE
PIN 5512.52

HOLE LINE STA
FH-X-34e
OFFSET ft

PROJECT NY RT 33, KENSINGTON EXPY TUNNEL SECTION
ACTUAL COORDINATES (N) 1,062,464.540 (E) 1,078,610.730 DATUM NAD83
DATE START 11-SEP-2023 DATE FINISH 11-SEP-2023
SURF. ELEV. 625.14 DEPTH TO WATER SEE NOTE

CASING O. D. 6 5/8 in I. D. 3 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
SAMPLER O. D. 3 in I. D. 2 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0						(0.00) ASPHALT Pavement (0.40) CONCRETE Pavement	
		J1	21	43	26		(1.00) Grey-Brown Gravelly SAND (M-NPL)	
					REF			
		J2	19	18	50		(3.00) Grey-Brown Sandy GRAVEL (M-NPL)	
	5.0							
		J3	50				(5.00) Grey-Brown Sandy GRAVEL (M-NPL)	
		R1					(5.60) Run #1 Drilled from 5'7" To 10'7" ROCK REC. 60" 100% 11 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	10.0							
		R2					(10.60) Run #2 Drilled from 10'7" To 15'7" ROCK REC. 59" 98.3% 10 Pieces NQ DOUBLE TUBE, SWIVEL "WIRELINE"	
	15.0							

BOTTOM OF HOLE AT 15.60 ft

- This boring was taken to provide overburden material for environmental screening, and a 3" split spoon sampler was used.
- As all material was provided to consultant labs for testing, soil descriptions listed here are based solely on the field callouts. Please refer to nearby boring FH-X-34 for soil descriptions and moisture content data.
- Sampler progressed 2" with 26 blows at 2'.
- Sampler refusal at 2.5'.
- Sampler progressed 4" with 50 blows at 4'.
- Sampler progressed 5" with 50 blows at 5'.
- Solid steel encountered from 5.6' to 6.3'
- Bore hole backfilled with spoils upon completion

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

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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.

CONTRACT CONTRACTOR CME Associates

SHEET 1 OF 1 HOLE FH-X-34e

EXISTING (PRE-2023)
SOIL BORING DATA AND LOGS

**KENSINGTON EXPRESSWAY
EXISTING (RECORD) SOIL BORING INVENTORY**

Key #	Sta.	Y axis	PSN	BH	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 (NAVD88)	0.00 5.00 9.00	5.00 9.00 14.00	5.00 4.00 5.00	Gray Brown Fine Sandy SILT Brown Fine Sandy SILT 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 14.83	0.33 14.50	Brown Topsoil 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 9.00	0.33 8.67	Brown Topsoil 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 14.00	9.00 5.00	Black Brown Silt and Gravel, Some stone, Trace clay and Sand- Fill material 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 (NAVD88)	0.00 5.00 6.50	5.00 6.50 9.80	5.00 1.50 3.30	Gray Fine Sandy Silt, Clayey Brown Fine Sandy Silt Rock REC 39"	3.30	98%	623.1	623.1
6	12267	-60	262	101	9/11/1959	9/11/1959	631.14	0.00 5.00 6.50	5.00 6.50 9.83	5.00 1.50 3.33	Gray Fine Sandy Silt, Clayey Brown Fine Sandy Silt Rock REC 39"	-	-	624.6	624.1
7	12010	-48	8694	5	9/20/1999	9/20/1999	-	0.00 0.33	0.33 12.75	0.33 12.42	Brown Topsoil 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 5.00 14.75 15.75 17.75 19.75	0.30 0.30 14.75 15.75 19.75 21.75	0.30 4.70 9.75 1.00 2.00 2.00 2.00	Topsoil Brown Red Silt, Some clay and fractured stone Red Brown Silt, some clay Seamed and Broken REC 11" Seamed and Broken REC 22" Seamed and Broken REC 24" 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 10.00 13.58 14.58 16.58	0.70 10.00 13.58 14.58 16.58 18.50	0.70 9.30 3.58 1.00 2.00 1.92	Topsoil Red Brown silt, some clay, trace fractured stone Red Brown silt, some clay Seamed and Broken REC 12" Seamed and Broken REC 23" 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 5.00 10.00 13.92 14.92 14.92 16.92	0.70 5.00 10.00 13.92 14.92 16.92 18.92	0.70 4.30 5.00 3.92 1.00 2.00 2.00	Topsoil Brown silt, some sand and fractured stone, trace clay Red brown silt, some clay, trace fine fractured stone Red brown silt, some clay Seamed and Broken REC 11" Seamed and Broken REC 24" Seamed and Broken REC 24"	- - - 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 10.00 14.33 15.33 17.33	0.50 10.00 14.33 15.33 17.33 19.33	0.50 9.50 4.33 1.00 2.00 2.00	Topsoil Red Brown Silt, Trace to some clay Red Brown silt, some clay Seamed and Broken REC 11" Seamed and Broken REC 24" 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 3.50 5.50	2.80 3.50 5.50 6.50	2.80 0.70 2.00 1.00	Gray Brown Gravelly sand, silty with slag Brown Gravelly Sand, Silty Gray Brown Gravelly sand, silty with slag 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 5.00 15.00 16.67 17.67	0.40 5.00 15.00 16.67 17.67 19.67	0.40 4.60 10.00 1.67 1.00 2.00	Topsoil Red Brown Silt, Trace to some clay, Trace fine fractured stone Red Brown Silt, Some Clay Red Brown Silt, Some Clay, Trace Sand and Fractured stone Seamed and Broken REC 12" 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 19.00 21.75 21.75	15.00 19.00 21.75 22.75	15.00 4.00 2.75 1.00	Red Silt, Some Clay Red Silt, Some Clay Seamed and Hard REC 27" Seamed and Hard REC 12"	- - 3.75	- - 87%	- - 613.2	- - 612.7

**KENSINGTON EXPRESSWAY
EXISTING (RECORD) SOIL BORING INVENTORY**

Key #	Sta.	Y axis	PSN	BH	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)
15	10989	-34	262	5	12/3/1965	12/7/1965	634.7	0.00 0.30 5.00 20.25	0.30 5.00 20.25 25.01	0.30 4.70 15.25 4.76	Topsoil Brown Silt, trace to some clay Red brown silt, some clay 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 5.00 6.50 10.00 11.67 15.00 16.67 17.00 17.00 18.00 21.80 23.80 23.80	0.60 5.00 6.50 10.00 11.67 15.00 16.67 17.00 18.00 21.80 23.80 25.80	0.60 4.40 1.50 3.50 1.67 3.33 1.67 0.33 1.00 3.80 2.00 2.00	Top Soil Red Brown Silt, Some Clay Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log Red Brown Silt, Some Clay Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log Red Brown Silt, Some Clay Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log Red Brown Silt, some clay Description of Undisturbed Soil Samples Shown on Form SM 401, Undisturbed Sample Summary Log Red Brown Silt, some clay Seamed and Broken REC 24" Seamed and Broken REC 24"	- - - - - - - - - - - - -	- - - - - - - - - - - - -	612.6	612.1
17-R1	10858	84	12472	1	8/15/2017	8/17/2017	633.74 (NAVD88)	0.00 5.00 10.00 15.00 20.30 25.30 30.30 35.30 40.30 45.30	5.00 10.00 15.00 20.30 25.30 30.30 35.30 40.30 45.30	5.00 5.00 5.00 5.30 5.00 5.00 5.00 5.00 5.00 5.00	Gray Brown Gravelly Silt, Sandy Gray Gravelly Sand, Silty Gray Coarse-Grained Sandy Gravel Brown Clay, sandy Rock Rock Rock Rock Rock Rock	4.00 5.00 5.00 3.67 5.00 5.00 5.00	100% 100% 74% 100% 100% 100%	613.4	613.4
18	10794	-31	262	22	3/22/1957	3/26/1957	639.22	0.00 9.00 15.00 18.00 24.00	9.00 15.00 18.00 24.00 28.67	9.00 6.00 3.00 6.00 4.67	Red Gray Silt, Some clay Red Silt, Some clay Red Brown Silt, Some Clay Red Brown Silt, Some clay, Trace Sand and Fine Garvel 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 10.00 20.00 25.00 25.75 26.92	0.40 10.00 20.00 25.00 25.75 26.92 30.92	0.40 9.60 10.00 5.00 0.75 1.17 4.00	Top soil Red Brown silt, some clay, trace fractured stone Red Brown Silt, some clay Red Gray Silt, Some sand and clay, Trace fractured Stone Red Gray Silt, Some sand and Fractured stone Rock, seamed and broken REC 12" 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 2.50 4.00 5.50 7.00 8.50 10.00 11.50 13.00 14.50 16.00 17.50 19.00 20.50 22.00 23.50 25.00 26.75 26.75	1.00 2.50 4.00 5.50 7.00 8.50 10.00 11.50 13.00 14.50 16.00 17.50 19.00 20.50 22.00 23.50 25.00 26.75 27.75	1.00 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.75 1.00	Topsoil 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 Red brown silt, trace to some clay 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 Red brown silt, trace to some clay, trace sand Red brown silt, some clay 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 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 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 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 Brown Sand, Some Silt, Trace Clay Brown silt, some sand and fractured stone, trace clay Rock, seamed and broken REC 12"	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	609.0	608.5

**KENSINGTON EXPRESSWAY
EXISTING (RECORD) SOIL BORING INVENTORY**

Key #	Sta.	Y axis	PSN	BH	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)								
21	10234	26	262	7	10/2/1965	11/1/1965	636.54	0.00	0.50	0.50	Topsoil												
								0.50	15.00	14.50	Red Brown Silt, Some Clay												
								15.00	20.00	5.00	Red Brown silt, some clay, trace fractured stone												
								20.00	20.42	0.42	Red Brown Silt, Some fractured stone and clay, trace sand												
								20.42	21.42	1.00	Rock, Seamed and Broken REC 12"	-	-										
								21.42	23.42	2.00	Rock, Seamed and Broken REC 22"	-	-										
								23.42	25.42	2.00	Rock, Seamed and Broken REC 24"	5.00	97%	616.1	615.6								
22	9685	41	8694	9	9/22/1999	9/22/1999	-	0.00	5.20	5.20	Gray Brown Gravelly sand, silty with slag												
								5.20	6.20	1.00	Limestone REC 10.8"	-	-										
23	9648	-8	262	21	3/20/1957	3/22/1957	640.18	0.00	18.00	18.00	Red Silt, some clay												
								18.00	24.00	6.00	Red Gray Silt, Some clay, trace very fine sand and fine gravel												
								24.00	29.00	5.00	Rock, Hard REC 55"	5.00	92%	616.2	615.7								
24	9590	-34	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												
								20.00	21.50	1.50	Lost sample												
								21.50	25.00	3.50	Red brown silt, some clay, trace sand and fractured stone												
								25.00	25.58	0.58	Lost sample												
								25.58	29.33	3.75	Rock, Seamed and Broken REC 42"	-	-										
								29.33	30.58	1.25	Rock, Seamed and Broken REC 15"	5.00	95%	614.6	614.1								
								25	9328	-45	8694	4	9/15/1999	9/15/1999	-	0.00	3.50	3.50	Gray Sandy Angular gravel				
																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	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												
								30.25	30.25	0.00													
27	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												
								29.84	29.84	0.00													
28	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	No sample taken												
								31.67	34.67	3.00	Rock, Seamed and broken REC 36"	3.00	100%	618.4	617.9								
29	8862	6.5	262	3	11/3/1965	11/9/1965	654.36	0.00	0.40	0.40	Topsoil												
								0.40	5.00	4.60	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, Some clay and fractured stone												
								25.00	35.00	10.00	Red Brown Silt, Some clay and fractured stone												
								35.00	38.16	3.16	Red Brown Silt, Some Clay, Trace Sand and Fractured Stone												
								38.16	40.16	2.00	Rock, Seamed and Broken REC 23"	-	-										
								40.16	41.66	1.50	Rock, Seamed and Broken REC 12"	-	-										
								41.66	43.16	1.50	Rock, Seamed and Broken REC 17"	5.00	87%	616.2	615.7								
								30	108.5	-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				
14.00	25.00	11.00	Gray Silt, Trace Sand, Clay and Gravel																				
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																				
42.92	42.92	0.00																					
31	8413	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												
								6.00	14.00	8.00	Gray SILT , Some Sand, Trace Clay												
								14.00	25.00	11.00	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel												
								25.00	45.08	20.08	Red Gray SILT , Some Clay, Trace Sand And Fine Gravel												
								45.08	50.00	4.92	Rock, Seamed and Broken REC 59"	4.92	100%	613.6	613.1								
								50.00	50.00	0.00													
32	8329	-90	11444	79	9/9/1955	9/13/1955	657.36	0.00	8.00	8.00	Brown Silt, Some sand, Trace Fine Gravel												
								8.00	14.00	6.00	Red Gray Silt, Some Clay, Trace Fine Gravel and Sand												
								14.00	22.00	8.00	Red Gray Silt, Some Sand and Fine Gravel, Trace Clay												
								22.00	25.00	3.00	Red Gray Fine Sand, Some Silt												
								25.00	35.00	10.00	Red Gray Fine Sand, Some Silt												
								35.00	41.92	6.92	Gray Silt, Some Clay, Sand and Fine Gravel												
								41.92	46.58	4.66	Rock, Seamed REC 54"	4.66	97%	615.4	614.9								

**KENSINGTON EXPRESSWAY
EXISTING (RECORD) SOIL BORING INVENTORY**

Key #	Sta.	Y axis	PSN	BH	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 2.00 3.00 5.00 25.00 45.84	1.00 2.00 3.00 5.00 25.00 45.84	1.00 1.00 1.00 2.00 20.00 20.84	Black Silt, some sand and organic Yellow Brown Sand, Trace Silt and Gravel Gray Brown Sand, Trace Silt and Gravel Red Brown Silt, Some Clay, Trace Sand No sample taken No sample taken				
										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 15.00 25.00 29.00 43.17 43.17	7.00 15.00 25.00 29.00 43.17 48.17	7.00 8.00 10.00 4.00 14.17 5.00	Yellow Brown Silt, Some Sand, Trace Clay Red Brown Silt, Some clay, Trace Sand Red Gray Silt, Some Clay and Sand, Trace Gravel Red Gray SILT, Some Clay And Sand, Trace Gravel Red Gray SILT, Some Sand, Fine Gravel And Clay				
										5.00	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 24.00 25.00 43.17 43.17	10.00 24.00 25.00 43.17 48.17	10.00 14.00 1.00 18.17 5.00	Brown Silt, Some sand Red Gray Silt, Some Clay, Trace sand and fine gravel Red Gray Silt, Some Clay, Gravel and sand Red Gray SILT, Some Clay, Gravel And Sand				
										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 16.00 25.00 43.17 43.17	10.00 16.00 25.00 43.17 48.17	10.00 6.00 9.00 18.17 5.00	Red Brown SILT, Some Sand, Trace Clay Gray Brown SILT AND SAND, Trace Clay And Gravel Gray Brown SILT, Some Clay, Trace Sand And Fine Gravel Gray Brown SILT, Some Clay, Trace Sand And Fine Gravel				
										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 25.00 28.00 38.83 38.83	8.00 25.00 28.00 38.83 43.58	8.00 17.00 3.00 10.83 4.75	Brown SILT, Some Sand Red Gray SILT, Some Clay, Trace Fine Gravel Red Gray SILT, Some Clay, Trace Fine Gravel Gray SILT, Some Gravel, Clay And Sand				
										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 25.00 26.00 40.75 40.75	13.00 25.00 26.00 40.75 45.75	13.00 12.00 1.00 14.75 5.00	Red Brown SILT, Some Clay, Trace Sand And Fine Gravel Red Gray SILT, Some Clay, Trace Sand And Fine Gravel Red Gray SILT, Some Clay, Trace Sand And Fine Gravel Brown Gray SILT, Some Clay, Sand And Fine Gravel				
										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 15.00 17.00 19.00 21.00 23.00 25.00 27.00 29.00	14.00 15.00 17.00 19.00 21.00 23.00 25.00 27.00 29.00 30.66	14.00 1.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 1.66	Brown SILT, Some Clay, Trace Fine Sand Red Gray SILT, Some Clay 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 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 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 Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG Gray GRAVEL AND SILT, Some Sand - No Rock Core				
										-		-		623.1	622.6
40			11444	66	9/27/1955	9/28/1955	654.49	0.00 11.00 25.00 33.67 36.33 36.33	11.00 25.00 33.67 36.33 39.33	11.00 14.00 8.67 2.66 3.00	Yellow Brown SILT, Some Sand, Trace Clay Red Gray SILT, Some Clay, Trace Sand And Fine Gravel Red Gray SILT, Some Clay, Trace Sand And Fine Gravel				
										-	ROCK, Seamed And Broken REC. 28"	-	-		
										5.66	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 25.00 27.00 27.00 30.48 35.50 35.50	9.00 25.00 27.00 30.48 35.50 37.50	9.00 16.00 2.00 3.48 5.02 2.00	Yellow Brown SILT, Some Sand Red Gray SILT, Some Clay, Trace Sand And Fine Gravel Red Gray SILT, Some Clay, Trace Sand And Fine Gravel Gray SILT, Some Gravel, Sand And Clay				
										5.02	ROCK, Seamed And Broken REC. 60"	5.02	100%		
										7.02	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 25.00 31.75 31.75	8.00 25.00 31.75 36.75	8.00 17.00 6.75 5.00	Yellow Brown SAND AND SILT Gray Brown SILT, Some Clay And Sand, Trace Gravel Gray Brown SILT, Some Clay And Sand, Trace Gravel				
										5.00	ROCK, Seamed And Broken REC. 60"	5.00	100%	620.9	620.4

**KENSINGTON EXPRESSWAY
EXISTING (RECORD) SOIL BORING INVENTORY**

Key #	Sta.	Y axis	PSN	BH	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	69	9/23/1955	9/26/1955	652.27	0.00 0.50 1.50 3.50 5.00 25.00 31.50	0.50 1.50 2.00 5.00 20.00 31.50	0.50 1.00 2.00 1.50 20.00 6.50 5.00	Black SILT , Some Sand And Organic - Topsoil Brown Black SILT , Some Sand, Trace Organic And Clay Brown SAND , Some Silt Yellow Brown SAND , Some Silt No sample taken No sample taken 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 25.00 30.25 30.25	11.00 25.00 30.25 35.25	11.00 14.00 5.25 5.00	Yellow Brown SILT , Some Sand, Trace Clay And Fine Gravel Red Gray SILT , Some Clay, Trace Fine Sand And Gravel Red Gray SILT , Some Clay, Trace Fine Sand And Gravel 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 2.42 5.00 25.00 29.42	2.00 2.42 5.00 25.00 29.42	2.00 0.42 2.58 20.00 4.42 3.00	Black Brown Silt, Some Sand and Organic, Trace Clay Brown Sand, Some Silt Mottled Yellow Brown Gray Silt and Sand, Trace Clay No sample taken No sample taken 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 24.00 25.00 26.83	6.00 24.00 25.00 26.83 31.83	6.00 18.00 1.00 1.83 5.00	Yellow Brown Silt and Sand, Trace clay Gray Silt and Sand, Some Limestone Fragments Gray Silt and Sand, Some Limestone Fragments Gray Silt and Sand, Some Limestone Fragments 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 5.00 25.00 27.42	0.75 5.00 25.00 27.42 32.42	0.75 4.25 20.00 2.42 5.00	Brown Black Silt, Some Sand and Organic, Trace Clay- Topsoil Yellow Brown Sand and Silt, Trace Fine Gravel No sample taken No sample taken 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 25.00 26.50	10.00 25.00 26.50 31.50	10.00 15.00 1.50 5.00	Yellow Brown Silt and Sand, Trace Clay Gray Brown Silt, Some Sand, Gravel and Clay Gray Brown Silt, Some Sand, Gravel and Clay 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 15.00 25.00	6.00 15.00 25.00 32.00	6.00 9.00 10.00 7.00	Gray Brown Sand, Some Silt Brown Silt, Some Clay, Trace Sand and Fine Gravel Gray Silt, Some Clay, Trace Sand and Fine Gravel Gray Silt, Some Clay, Trace Sand and Fine Gravel 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 1.50 3.00 7.00	0.30 1.50 3.00 7.00 8.00	0.30 1.20 1.50 4.00 1.00	Asphalt Concrete Gray Sandy Angular Gravel Gray Brown Fine Gravelly Sand, Silty Gray Brown Fine Gravelly Sand, Silty Clayey Limestone REC 10.8"	-	-	-	-
51	6862	88	11444	53	10/10/1955	10/13/1955	645.02	0.00 15.00 25.50	15.00 25.50 30.50	15.00 10.50 5.00	Brown Silt, Some Fine Sand and Clay, Trace Gravel Gray Silt, Some Clay, Trace Sand and Gravel 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 26.50	24.50 2.00	No sample Taken 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 14.00 22.00 26.50	8.00 14.00 22.00 26.50 30.50	8.00 6.00 8.00 4.50 4.00	Brown Silt, some fine sand and clay Red Gray Silt, Some Clay, Trace Sand and Gravel Gray Brown Silt, Some Fine Sand, Trace Clay and Fine Gravel Gray Silt, Some Sand, Gravel and Clay 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 5.00 25.00	0.42 5.00 25.00 26.50	0.42 4.58 20.00 1.50	Brown Black Silt, Some Organic Topsoil Yellow Brown Silt, Some Sand, Trace Clay No sample taken Rock, Seamed and Broken REC 16"	-	-	618.2	617.7
55	6937	-156	11444	59	10/3/1955	10/4/1955	641.87	0.00 9.00 14.00 24.33 24.33	9.00 14.00 24.33 29.33	9.00 5.00 10.33 5.00	Red Brown Silt, Trace Sand, Clay and Fine Gravel Yellow Gray Silt, Some Clay, Trace Sand and Fine Gravel Red Gray Silt, Some Clay, Trace Sand and Fine Gravel. Rock, Seamed, Broken and Hard REC 56"	5.00	93%	617.5	617.0

**KENSINGTON EXPRESSWAY
EXISTING (RECORD) SOIL BORING INVENTORY**

Key #	Sta.	Y axis	PSN	BH	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)
56	6878.5	-134	11444	58	10/5/1955	10/5/1955	641.36	0.00 10.00 15.00 22.42	10.00 15.00 22.42 27.42	10.00 5.00 7.42 5.00	Red Brown Silt, Some Clay, Trace Sand and Fine Gravel Red Gray Silt, Some Clay, Trace Sand and Fine Gravel Gray Silt, Some Sand, Fine Gravel and Clay 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 13.00 17.00 24.50	8.00 13.00 17.00 24.50 28.33	8.00 5.00 4.00 7.50 3.83	Yellow Brown SILT, Some Sand, Trace Clay Red Brown SILT, Some Sand And Clay, Trace Fine Gravel Red Gray SILT, Some Clay, Trace Sand And Fine Gravel Gray SILT, Some Sand, Gravel And Clay ROCK, Seamed And Broken REC 46"	3.83	100%	617.2	616.7
58	6770	-144	11444	57	10/3/1955	10/4/1955	642.11	0.00 6.00 20.00 23.42 23.42 25.25 26.25	6.00 20.00 23.42 3.42 1.83 1.00 1.83	6.00 14.00 23.42 3.42 1.83 1.00 1.83	Yellow Brown SILT, Some Sand Red Gray SILT, Some Clay, Trace Sand And Fine Gravel Gray SILT, Some Sand And Fine Gravel ROCK, Seamed, Broken And Hard REC. 22" ROCK, Seamed, Broken And Hard REC. 12" ROCK, Seamed, Broken And Hard REC. 22"	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 22.25	5.00 22.25 26.25	5.00 17.25 4.00	Red Brown SILT, Some Clay And Sand, Trace Fine Gravel No sample taken 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 17.00 23.92	9.00 17.00 23.92 27.58	9.00 8.00 6.92 3.66	Brown SILT, Some Sand, Trace Clay And Gravel Gray Brown SILT, Some Clay, Trace Sand And Gravel Red Gray SILT, Some Clay, Trace Sand And Gravel 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 20.00 24.25	12.00 20.00 24.25 29.25	12.00 8.00 4.25 5.00	Brown SILT, Some Sand, Trace Clay And Fine Gravel Gray Brown SILT, Some Clay, Trace Sand And Gravel Gray SILT, Some Clay, Trace Sand And Gravel 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 26.08	23.08 3.00	No sample taken 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 16.00 23.67	7.00 16.00 23.67 25.67	7.00 9.00 7.67 2.00	Red Brown SILT, Some Clay, Trace Sand And Gravel Gray Brown SILT AND SAND, Some Clay, Trace Gravel Red Gray SILT, Some Clay, Trace Sand 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 20.92	12.00 20.92 23.09	12.00 8.92 2.17	Red Brown SILT, Some Clay, Trace Sand And Gravel Red Gray SILT, Some Clay, Trace Sand And Fine Gravel 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 22.67	20.67 2.00	No sample taken 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 20.17	10.00 20.17 22.67	10.00 10.17 2.50	Red Brown SILT, Some Clay, Trace Sand And Gravel Red Gray SILT, Some Clay, Trace Sand And Fine Gravel 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 19.92	6.00 19.92 21.42	6.00 13.92 1.50	Red Brown SILT, Some Clay And Sand, Trace Gravel Red Gray SILT, Some Clay, Trace Sand And Gravel 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 22.33	8.00 22.33 25.33	8.00 14.33 3.00	Red Brown SILT, Some Clay, Trace Sand And Fine Gravel Red Gray SILT, Some Clay, Trace Sand And Fine Gravel 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 20.25	9.00 20.25 25.25	9.00 11.25 5.00	Red Brown SILT, Some Clay, Trace Sand And Gravel Red Gray SILT, Some Clay, Trace Sand And Gravel 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 18.00 21.67	14.00 18.00 21.67 24.17	14.00 4.00 3.67 2.50	Brown SILT, Some Clay And Sand, Trace Fine Gravel Red Gray SILT, Some Clay, Trace Sand And Gravel Gray SAND, Some Silt, Trace Fine Gravel 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 24.91	21.58 3.33	No sample taken 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 17.00 22.17	9.00 17.00 22.17 23.67	9.00 8.00 5.17 1.50	Brown SILT, Some Sand, Trace Clay And Fine Gravel Red Gray SILT, Some Clay, Trace Sand And Gravel Gray SAND AND SILT, Some Fine Gravel 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

SM 282 E 12/02

PSN 11112 BORNUM 2
 REGION 5
 COUNTY ERIE
 PIN 5512.43.101
 PROJECT ROUTE 33 PEDESTRIAN BRIDGE

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-B-2
 LINE _____
 STA _____
 OFFSET ft
 SURF. ELEV. 631.06
 DEPTH TO WATER SEE NOTE

ACTUAL COORDINATES (N) 1,063,424.930 (E) 1,078,505.600 DATUM NAD83
 DATE START 09-OCT-2007 DATE FINISH 10-OCT-2007
 CASING O. D. 6 1/4 in I. D. 2 1/4 in WT OF HAMMER-CASING 140 lb HAMMER FALL-CASING 30 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	J1	3	5	17		14%	(0.00) Gray Brown Fine Sandy SILT , With Roots (M-NPL)
	5.0	J2	2	8	8		19%	(5.00) Brown Fine Sandy SILT (M-NPL)
	10.0	R1						(9.00) Run #1 Drilled from 9'0" To 14'0" ROCK REC. 54" 90% 6 Bit No sk632512

BOTTOM OF HOLE AT 14.00 ft

Started boring over using NW casing.
 Refusal at 2.743 meters.
 The automatic hammer was used for the SPT at all sampling depths.
 Wash water added at 2.743 meters.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
09-Oct-07	19:00	14.00	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 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-2007
 RESIDENT ENGINEER _____
 STRUCTURE NAME Pedestrian Bridge/Rte. 33 B.I.N. 1022650
 SHEET 1 OF 1 HOLE FH-B-2

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 262 BORNUM 103
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-3
 LINE Baseline
 STA 139+60
 OFFSET 250 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 632.27
 ACTUAL COORDINATES (N) 1,063,366.970 (E) 430,106.150 DATUM NAD27 DEPTH TO WATER NONE

DATE START 11-SEP-1959 DATE FINISH 11-SEP-1959
 CASING O. D. 6 1/4 in I. D. 2 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. in I. D. in WT OF HAMMER-SAMPLER lb HAMMER FALL-SAMPLER in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0		6	12	18	24		(0.00) Brown Topsoil (0.33) Brown SILT AND SAND , Some Fine Stone (M-NPL)
		J1						
	5.0	J2						
	10.0							

BOTTOM OF HOLE AT 14.83 ft

*Limestone rock encountered at 14.83 feet.
 Samples 1 and 2 obtained from auger.*

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. 1022650
Ped. Bridge over Kensington Expressway
 SHEET 1 OF 1 HOLE FH-3

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 262 BORNUM 102
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-2
 LINE Baseline
 STA 139+60
 OFFSET 85 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 631.04
 ACTUAL COORDINATES (N) 1,063,366.970 (E) 430,273.100 DATUM NAD27 DEPTH TO WATER NONE

DATE START 11-SEP-1959 DATE FINISH 11-SEP-1959
 CASING O. D. 6 1/4 in I. D. 2 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. in I. D. in WT OF HAMMER-SAMPLER lb HAMMER FALL-SAMPLER in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0		6	12	18	24		(0.00) Brown Topsoil (0.33) Red Brown SILT , Some Sand And Clay, Trace Fine Stone (M-PL)
		J1						
	5.0							

BOTTOM OF HOLE AT 9.00 ft

*Limestone rock encountered at 9 feet.
 Sample 1 obtained from auger.*

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022650
Ped. Bridge over Kensington Expressway
 SHEET 1 OF 1 HOLE FH-2

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 262 BORNUM 24
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-G4
 LINE Baseline
 STA 139+13
 OFFSET 69 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 630.79
 ACTUAL COORDINATES (N) 1,063,319.950 (E) 430,289.060 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 28-MAR-1957 DATE FINISH 29-MAR-1957
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
8	0.0						(0.00) Black Brown SILT AND GRAVEL , Some Stone, Trace Clay And Sand - Fill Material (M-LPL)	
15								
26								
27								
29	5.0							
15		J12						
17								
20								
45								
	10.0	R1					(9.00) Run #1 Drilled from 9'0" To 14'0" ROCK , Seamed REC. 60" 100%	

BOTTOM OF HOLE AT 14.00 ft

Sample 12 obtained from auger.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
29-Mar-57	15:00	14.00	9.00	NONE		

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. _____

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 1 HOLE DH-G4

SM 282 E 12/02

PSN 11112 BORNUM 1
 REGION 5
 COUNTY ERIE
 PIN 5512.43.101
 PROJECT ROUTE 33 PEDESTRIAN BRIDGE

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DA-B-1
 LINE _____
 STA _____
 OFFSET ft
 SURF. ELEV. 629.59
 DEPTH TO WATER SEE NOTE

ACTUAL COORDINATES (N) 1.063,417.570 (E) 1.078,736.540 DATUM NAD83
 DATE START 10-OCT-2007 DATE FINISH 10-OCT-2007
 CASING O. D. 3 1/2 in I. D. 3 in WT OF HAMMER-CASING 140 lb HAMMER FALL-CASING 30 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
7	0.0	J1	6	12	18	24	7%	(0.00) Gray Fine Sandy SILT , Clayey (M-LPL)
15								
37								
18								
18	5.0	J2	10	14	15		16%	(5.00) Brown Fine Sandy SILT (M-NPL)
31								
100		R1						(6.50) Run #1 Drilled from 6'6" To 9'10" ROCK REC. 39" 98.5% 6 NW DOUBLE TUBE, SWIVEL Bit No sk632512

BOTTOM OF HOLE AT 9.80 ft

Wash water added @ 1.524 meters.
 First sample off auger.
 Refusal @ 1.981 meters.
 Lost water at 2.286 meters.
 The automatic hammer was used for the SPT at all sampling depths.

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

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DRILL RIG OPERATOR L. Muhammad
 SOIL & ROCK DESCRIPTION L. Muhammad
 REG GEOTECHNICAL ENGINEER Joseph Zieziula
 DATE APPROVED 06-DEC-2007
 RESIDENT ENGINEER _____
 STRUCTURE NAME Pedestrian Bridge/Rte. 33 B.I.N. 1022650
 SHEET 1 OF 1 HOLE DA-B-1

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 262 BORNUM 101
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-1
 LINE Baseline
 STA 139+60
 OFFSET 65 ft RIGHT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 631.14
 ACTUAL COORDINATES (N) 1,063,366.850 (E) 430,423.100 DATUM NAD27 DEPTH TO WATER NONE

DATE START 11-SEP-1959 DATE FINISH 11-SEP-1959
 CASING O. D. 6 1/4 in I. D. 2 1/4 in WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 SAMPLER O. D. in I. D. in WT OF HAMMER-SAMPLER lb HAMMER FALL-SAMPLER in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0		6	12	18	24		(0.00) Brown Topsoil (0.33) Red Brown SILT, Some Clay And Sand, Trace Fine Stone (M-PL)
		J1						
	5.0							
	10.0							

BOTTOM OF HOLE AT 12.75 ft

*Limestone rock encountered at 12.75 feet.
 Sample 1 obtained from auger.*

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022650
Ped. Bridge over Kensington Expressway
 SHEET 1 OF 1 HOLE FH-1

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 8694 BORNUM 5
 REGION 5
 COUNTY ERIE
 PIN 5512.36.122
 PROJECT NY ROUTE 33, ELM/OAK TO ROUTE 198

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-X-5
 LINE CL
 STA 120+10.00
 OFFSET 48 ft RIGHT
 SURF. ELEV. _____
 DEPTH TO WATER SEE NOTE

PRELIMINARY LOG

SCALED COORDINATES (N) 1,063,111.390 (E) 430,314.100 DATUM NAD27
 DATE START 20-SEP-1999 DATE FINISH 20-SEP-1999
 CASING O. D. Power in I. D. Auger in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 1/2 in WT OF HAMMER-SAMPLER 308 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	J1	30	19	11		4%	(0.00) Brown Gravelly SAND ,Silty (M-NPL)
		J2	17	20	18		3%	
		J3	20	30	40		5%	
	5.0	J4	50	20	19		2%	
		J5	16	50	10		3%	
		J6	16	32	100		5%	
	10.0	J7	17	35	37		4%	
		R1						

(11.80) Run #1 Drilled from 11'10" To 12'10" 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.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
20-Sep-99	11:00	12.80	11.80	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.

DRILL RIG OPERATOR R.N.SCHMITT
 SOIL & ROCK DESCRIPTION J.A.DENNEE
 REG GEOTECHNICAL ENGINEER PRELIMINARY LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME B.I.N.

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 1 HOLE FH-X-5

SM 282 E 12/02

PSN 262 BORNUM 11
 REGION 5
 COUNTY ERIE
 PIN

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W11
 LINE Baseline
 STA 136+40
 OFFSET 94 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II
 ACTUAL COORDINATES (N) 1,063,046.970 (E) 430,263.850 DATUM NAD27 SURF. ELEV. 634.1
 DATE START 05-OCT-1965 DATE FINISH 06-OCT-1965 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil (0.30) Brown Red SILT , Some Clay And Fractured Stone (M-PL)	
13		J1	6	7				
32					12			
23								
33	5.0						(5.00) Red Brown SILT , Some Clay (M-PL)	
32		J2	4	9				
44					14			
52								
44								
40	10.0							
25		J3	3	4				
25					7			
38								
32								
200	15.0	R1					(14.75) Run #1 Drilled from 14'9" To 15'9" ROCK , Seamed And Broken	
		R2					(15.75) REC. 11" 91.7% 7 Run #2 Drilled from 15'9" To 17'9" ROCK , Seamed And Broken	
		R3					(17.75) REC. 22" 91.7% 3 Run #3 Drilled from 17'9" To 19'9" ROCK , Seamed And Broken	
		R4					(19.75) REC. 24" 100% 1 Run #4 Drilled from 19'9" To 21'9" ROCK , Seamed And Broken	
	20.0						(19.75) REC. 24" 100% 6	

BOTTOM OF HOLE AT 21.75 ft

Dug by hand from 0 to 1 foot.

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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 1 OF 2 HOLE DH-W11

SM 282 E 12/02

PSN 262 BORNUM 11
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W11
 LINE Baseline
 STA 136+40
 OFFSET 94 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 634.1
 ACTUAL COORDINATES (N) 1,063,046.970 (E) 430,263.850 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 05-OCT-1965 DATE FINISH 06-OCT-1965

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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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-W11

SM 282 E 12/02

PSN 262 BORNUM 12
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-E13
 LINE Baseline
 STA 134+85
 OFFSET 75 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 634.5
 ACTUAL COORDINATES (N) 1,062,891.960 (E) 430,282.730 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 14-OCT-1965 DATE FINISH 15-OCT-1965
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil	
10		J1	8	12	14		(0.70) Red Brown SILT , Some Clay, Trace Fractured Stone (M-PL)	
20								
26								
29	5.0							
23		J2	6	9	13			
25								
43								
40								
31	10.0							
33		J3	3	4	4	22%	(10.00) Red Brown SILT , Some Clay (M-PL)	
35								
52								
90		R1					(13.58) Run #1 Drilled from 13'7" To 14'7" ROCK , Seamed And Broken	
	15.0	R2					(14.58) REC. 12" 100% 3 Run #2 Drilled from 14'7" To 16'7" ROCK , Seamed And Broken	
							REC. 23" 95.8% 9	
		R3					(16.58) Run #3 Drilled from 16'7" To 18'6" ROCK , Seamed And Broken	
							REC. 23" 99.8% 4	

BOTTOM OF HOLE AT 18.50 ft

*Dug by hand from 0 to 1 foot.
 Some Drill water LOST from 16 to 18.5 feet.*

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
15-Oct-65	15:00	18.50	13.58	16.60		

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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 1 OF 1 HOLE DH-E13

SM 282 E 12/02

PSN 262 BORNUM 9
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W10
 LINE Baseline
 STA 134+35
 OFFSET 121 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II
 ACTUAL COORDINATES (N) 1,062,842.000 (E) 430,236.690 DATUM NAD27 SURF. ELEV. 635.02
 DATE START 06-OCT-1965 DATE FINISH 13-OCT-1965 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil	
8		J1	5	6	5		(0.70) Brown SILT , Some Sand And Fractured Stone, Trace Clay (M-LPL)	
12								
23								
30	5.0							
27		J2	6	10	16		(5.00) Red Brown SILT , Some Clay, Trace Fine Fractured Stone (M-PL)	
45								
55								
55	10.0							
52		J3	4	7	8		(10.00) Red Brown SILT , Some Clay (M-PL)	
72								
130								
	15.0	R1					(13.92) Run #1 Drilled from 13'11" To 14'11" ROCK , Seamed And Broken	
		R2					(14.92) REC. 11" 91.7% 5 Run #2 Drilled from 14'11" To 16'11" ROCK , Seamed And Broken	
		R3					(16.92) REC. 24" 100% 12 Run #3 Drilled from 16'11" To 18'11" ROCK , Seamed And Broken	
							REC. 23" 95.8% 5	

BOTTOM OF HOLE AT 18.92 ft

Dug by hand from 0 to 1 foot.
 Some Drill water LOST from 15.92 to 18.92 feet.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
13-Oct-65	15:00	18.92	12.92	14.62		

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 1 HOLE DH-W10

SM 282 E 12/02

PSN 262 BORNUM 8
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W9
 LINE Baseline
 STA 131+82
 OFFSET 135 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II
 ACTUAL COORDINATES (N) 1,062,589.010 (E) 430,222.490 DATUM NAD27 SURF. ELEV. 635.44
 DATE START 15-OCT-1965 DATE FINISH 20-OCT-1965 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil (0.50) Red Brown SILT , Trace To Some Clay (M-LPL)	
9		J1	10	12	14			
16								
19								
21	5.0							
49		J2	8	12	14			
57								
74								
67								
56	10.0							
35		J3	4	5	6		(10.00) Red Brown SILT , Some Clay (M-PL)	
50								
65								
120								
	15.0	R1					(14.33) Run #1 Drilled from 14'4" To 15'4" ROCK , Seamed And Broken	
		R2					(15.33) REC. 11" 91.7% 3 Run #2 Drilled from 15'4" To 17'4" ROCK , Seamed And Broken	
		R3					(17.33) REC. 24" 100% 7 Run #3 Drilled from 17'4" To 19'4" ROCK , Seamed And Broken	
							REC. 24" 100% 6	

BOTTOM OF HOLE AT 19.33 ft

Dug by hand from 0 to 1 foot.
 Drill water LOST from 16.33 to 19.33 feet.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
20-Oct-65	15:00	19.33	14.00	16.34		

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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 1 OF 1 HOLE DH-W9

SM 282 E 12/02

PSN 8694 BORNUM 8
 REGION 5
 COUNTY ERIE
 PIN 5512.36.122
 PROJECT NY ROUTE 33, ELM/OAK TO ROUTE 198

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-X-8
 LINE CL
 STA 113+40.00
 OFFSET 48 ft LEFT
 SURF. ELEV. _____

SCALED COORDINATES (N) 1,062,435.540 (E) 430,215.680 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 22-SEP-1999 DATE FINISH 22-SEP-1999

CASING O. D. Power in I. D. Auger in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 1/2 in WT OF HAMMER-SAMPLER 308 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0	J1	30	19	21		12%	(0.00) Gray Brown Gravelly SAND ,Silty With Slag (M-NPL)
		J2	24	57	100		5%	
		J3					7%	(2.80) Brown Gravelly SAND ,Silty (M-NPL)
		J4	25	27			11%	(3.50) Gray Brown Gravelly SAND ,Silty With Slag (W-NPL)
	5.0	J5	75				12%	
		R1						(5.50) Run #1 Drilled from 5'6" To 6'6" LIMESTONE REC. 10.8" 90% 3 AW DBL. TUBE SWIVEL Bit No NYS344

BOTTOM OF HOLE AT 6.50 ft

Progressed hole DRY to 1.676 meters
 Sample number 3 came from augers.
 Station and offset from Record Plans.

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

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DRILL RIG OPERATOR R.N.SCHMITT
 SOIL & ROCK DESCRIPTION J.A.DENNEE
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 1 HOLE FH-X-8

SM 282 E 12/02

PSN 262 BORNUM 10
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-E11
 LINE Baseline
 STA 129+35
 OFFSET 60 ft LEFT

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II
 ACTUAL COORDINATES (N) 1,062,341.950 (E) 430,297.300 DATUM NAD27

SURF. ELEV. 634.45
 DEPTH TO WATER SEE NOTE

DATE START 20-OCT-1965 DATE FINISH 26-OCT-1965

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

UNOFFICIAL LOG

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil (0.40) Red Brown SILT , Trace To Some Clay, Trace Fine Fractured Stone (M-LPL)	
		J1						
57								
50	5.0						(5.00) Red Brown SILT , Some Clay (M-PL)	
		J2	7	10	13			
45								
53								
53								
42								
43	10.0							
		J3	3	4	4			
33								
40								
38								
38								
40	15.0							
		J4	3	7	6		(15.00) Red Brown SILT , Some Clay, Trace Sand And Fractured Stone (M-PL)	
45								
56		R1					(16.67) Run #1 Drilled from 16'8" To 17'8" ROCK , Seamed And Broken	
		R2					(17.67) REC. 12" 100% 4 Run #2 Drilled from 17'8" To 19'8" ROCK , Seamed And Broken	
							REC. 24" 100% 11	
	20.0	R3					(19.67) Run #3 Drilled from 19'8" To 21'8" ROCK , Seamed And Broken	
							REC. 24" 100% 6	

BOTTOM OF HOLE AT 21.67 ft

Dug by hand from 0 to 3 feet.
 Dug sample 1 by hand.
 Some Drill water LOST from 19.67 to 21.67 feet.

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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 1 OF 2 HOLE DH-E11

SM 282 E 12/02

PSN 262 BORNUM 10
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-E11
 LINE Baseline
 STA 129+35
 OFFSET 60 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 634.45
 ACTUAL COORDINATES (N) 1,062,341.950 (E) 430,297.300 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 20-OCT-1965 DATE FINISH 26-OCT-1965
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-E11

SM 282 E 12/02

PSN 262 BORNUM 23
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-G3
 LINE Baseline
 STA 127+20
 OFFSET 120 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II
 ACTUAL COORDINATES (N) 1,062,126.990 (E) 430,237.130 DATUM NAD27 SURF. ELEV. 634.92
 DATE START 26-MAR-1957 DATE FINISH 27-MAR-1957 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
10	0.0						(0.00) Red SILT , Some Clay (M-PL)	
12								
16								
27								
31	5.0							
24		J9	5	10				
34								
42								
33								
34	10.0							
29		J10	2	2				
26								
29								
32								
25	15.0							
16		J11	1	1			(15.00) Red SILT , Some Clay (W-PL)	
15								
23								
83								
	20.0	R1					(19.00) Run #1 Drilled from 19'0" To 21'9" ROCK , Seamed And Hard REC. 27" 81.8%	
		R2					(21.75) Run #2 Drilled from 21'9" To 22'9" ROCK , Seamed And Hard REC. 12" 100%	

BOTTOM OF HOLE AT 22.75 ft

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE DH-G3

SM 282 E 12/02

PSN 262 BORNUM 23
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-G3
 LINE Baseline
 STA 127+20
 OFFSET 120 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 634.92
 ACTUAL COORDINATES (N) 1,062,126.990 (E) 430,237.130 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 26-MAR-1957 DATE FINISH 27-MAR-1957
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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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-G3

SM 282 E 12/02

PSN 262 BORNUM 5
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-S2-4
 LINE Baseline
 STA 126+85
 OFFSET 60 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 634.7
 ACTUAL COORDINATES (N) 1.062,091.950 (E) 430,297.100 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 03-DEC-1965 DATE FINISH 07-DEC-1965
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil (0.30) Brown SILT, Trace To Some Clay (M-LPL)	
5		J1						
8								
8								
25	5.0	J2	3	9	13		(5.00) Red Brown SILT, Some Clay (M-PL)	
17								
20								
29								
29								
26	10.0	J3	2	2	4	28%		
25								
16								
16								
14								
16	15.0	J4	1	1	1	22%		
16								
15								
16								
40								
45	20.0	J5 R1	10				(20.25) Run #1 Drilled from 20'3" To 25'0" ROCK, Seamed And Broken REC. 57" 99.8% 33	
	25.0							

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DRILL RIG OPERATOR L. Smith
 SOIL & ROCK DESCRIPTION R. Smith
 REG GEOTECHNICAL ENGINEER UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME East Ferry St over Kensington Expressway B.I.N. 1022640
 SHEET 1 OF 2 HOLE DH-S2-4

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 262 BORNUM 5
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-S2-4
 LINE Baseline
 STA 126+85
 OFFSET 60 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 634.7
 ACTUAL COORDINATES (N) 1,062,091.950 (E) 430,297.100 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 03-DEC-1965 DATE FINISH 07-DEC-1965
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

25.0

BOTTOM OF HOLE AT 25.01 ft

*Dug by hand from 0 to 1 foot.
 Sample 1 obtained from auger.*

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
07-Dec-65	15:00	25.00	20.00	14.00		

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DRILL RIG OPERATOR L. Smith
 SOIL & ROCK DESCRIPTION R. Smith
 REG GEOTECHNICAL ENGINEER UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME East Ferry St over Kensington Expressway B.I.N. 1022640
 SHEET 2 OF 2 HOLE DH-S2-4

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 262 BORNUM 2
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE UD-S2-1
 LINE Baseline
 STA 125+85
 OFFSET 130 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II
 ACTUAL COORDINATES (N) 1,061,992.000 (E) 430,227.020 DATUM NAD27 SURF. ELEV. 634.39
 DATE START 07-DEC-1965 DATE FINISH 09-DEC-1965 DEPTH TO WATER SEE NOTE

CASING O. D. 4 1/2 in I. D. 4 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 3 1/2 in I. D. 2 7/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil	
21		J1	3	4	11		(0.60) Red Brown SILT , Some Clay (M-PL)	
77								
91								
98	5.0							
84		L2	21	30			(5.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
59							(6.50) Red Brown SILT , Some Clay (M-PL)	
152								
149								
140	10.0							
83		T3					(10.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
76							(11.67) Red Brown SILT , Some Clay (M-PL)	
71								
60								
53	15.0							
		T4					(15.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
							(16.67) Red Brown SILT , Some Clay (M-PL)	
18		T5					(17.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
34							(18.00) Red Brown SILT , Some Clay (M-PL)	
41	20.0							
60								
65		R1					(21.80) Run #1 Drilled from 21'10" To 23'10" ROCK , Seamed And Broken REC. 24" 100% 12	
		R2					(23.80) Run #2 Drilled from 23'10" To 25'10" ROCK , Seamed And Broken	
	25.0							

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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
 SHEET 1 OF 2 HOLE UD-S2-1

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 262 BORNUM 2
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE UD-S2-1
 LINE Baseline
 STA 125+85
 OFFSET 130 ft LEFT

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II

SURF. ELEV. 634.39

ACTUAL COORDINATES (N) 1,061,992.000 (E) 430,227.020 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 07-DEC-1965 DATE FINISH 09-DEC-1965

CASING O. D. 4 1/2 in I. D. 4 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 3 1/2 in I. D. 2 7/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24		REC. 24" 100% 15

BOTTOM OF HOLE AT 25.80 ft

*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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
09-Dec-65	15:00	25.80	21.75	12.00		

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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
 SHEET 2 OF 2 HOLE UD-S2-1

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 12472 BORNUM 1
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DN-X-1
 LINE _____
 STA _____
 OFFSET ft
 SURF. ELEV. 633.74

PROJECT NY RT 33, COVER THE KENSINGTON

ACTUAL COORDINATES (N) 1.061,997.860 (E) 1.078,537.340 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 15-AUG-2017 DATE FINISH 17-AUG-2017

CASING O. D. 3 1/2 in I. D. 3 in WT OF HAMMER-CASING 140 lb HAMMER FALL-CASING 30 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
10	0.0	J1	6	12	18	24	1.3%	(0.00) Gray Brown Gravelly SILT , Sandy (D-NW)
10								
12								
13								
13	5.0	J2	7	8	8		3.1%	(5.00) Gray Gravelly SAND , Silty (M-NPL)
12								
11								
13								
15								
20	10.0	J3	10	12	9		1.8%	(10.00) Gray Coarse-Grained Sandy GRAVEL (W-NPL)
21								
21								
30								
30								
30	15.0	J4	9	10	10		15.9%	(15.00) Brown CLAY , Sandy (M-PL)
40								
100								
101								
115								
116	20.0							
		R1						(20.30) Run #1 Drilled from 20'4" To 25'4" ROCK REC. 60" 100% 10 NW SINGLE TUBE
	25.0							

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. NelsonDATE APPROVED 11-FEB-2022 REVISION # 1

RESIDENT ENGINEER _____

STRUCTURE NAME _____

B.I.N. _____

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 3

HOLE DN-X-1

SM 282 E 12/02

PSN 12472 BORNUM 1
 REGION 5
 COUNTY ERIE
 PIN 5512.52
 PROJECT NY RT 33, COVER THE KENSINGTON

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DN-X-1
 LINE _____
 STA _____
 OFFSET ft
 SURF. ELEV. 633.74
 DEPTH TO WATER SEE NOTE

ACTUAL COORDINATES (N) 1,061,997.860 (E) 1,078,537.340 DATUM NAD83
 DATE START 15-AUG-2017 DATE FINISH 17-AUG-2017
 CASING O. D. 3 1/2 in I. D. 3 in WT OF HAMMER-CASING 140 lb HAMMER FALL-CASING 30 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0	R2	6	12	18	24	(25.30) Run #2 Drilled from 25'4" To 30'4" ROCK REC. 60" 100% 12 NW SINGLE TUBE	
	30.0	R3					(30.30) Run #3 Drilled from 30'4" To 35'4" ROCK REC. 44.4" 74% 5 NW SINGLE TUBE	
	35.0	R4					(35.30) Run #4 Drilled from 35'4" To 40'4" ROCK REC. 60" 100% 11 NW SINGLE TUBE	
	40.0	R5					(40.30) Run #5 Drilled from 40'4" To 45'4" ROCK REC. 60" 100% 13 NW SINGLE TUBE	
	45.0	R6					(45.30) Run #6 Drilled from 45'4" To 50'4" ROCK REC. 60" 100% 20 NW SINGLE TUBE	
	50.0							

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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.

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 3 HOLE DN-X-1

SM 282 E 12/02

PSN 12472 BORNUM 1
 REGION 5
 COUNTY ERIE
 PIN 5512.52

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE LINE DN-X-1
 STA _____
 OFFSET ft
 SURF. ELEV. 633.74

PROJECT NY RT 33, COVER THE KENSINGTON

ACTUAL COORDINATES (N) 1,061,997.860 (E) 1,078,537.340 DATUM NAD83 DEPTH TO WATER SEE NOTE

DATE START 15-AUG-2017 DATE FINISH 17-AUG-2017

CASING O. D. 3 1/2 in I. D. 3 in WT OF HAMMER-CASING 140 lb HAMMER FALL-CASING 30 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
50.0			6	12	18	24		

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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
17-Aug-17	11:00	53.30	20.00	24.00		NO

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DRILL RIG OPERATOR Larry Muhammad Sr.SOIL & ROCK DESCRIPTION K. Haberer

REG GEOTECHNICAL

ENGINEER Todd E. NelsonDATE APPROVED 11-FEB-2022 REVISION # 1

RESIDENT ENGINEER _____

STRUCTURE NAME _____

B.I.N. _____

CONTRACT _____ CONTRACTOR _____

SHEET 3 OF 3

HOLE DN-X-1

SM 282 E 12/02

PSN 262 BORNUM 22
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-G2
 LINE Baseline
 STA 124+90
 OFFSET 62 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 639.22
 ACTUAL COORDINATES (N) 1,061,896.950 (E) 430,294.950 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 22-MAR-1957 DATE FINISH 26-MAR-1957
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
6	0.0						(0.00) Red Gray SILT , Some Clay (M-PL)	
8								
10								
16								
22	5.0							
21		J5	4	7				
29								
41								
41								
32	10.0						(9.00) Red SILT , Some Clay (M-PL)	
17		J6	2	3				
18								
31								
35								
30	15.0							
19		J7	1	1			(15.00) Red Brown SILT , Some Clay (M-PL)	
19								
20								
25							(18.00) Red Brown SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
37	20.0							
		J8	4	3				
	25.0	R1					(24.00) Run #1 Drilled from 24'0" To 28'8" ROCK , Seamed And Hard REC. 54" 96.4%	

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE DH-G2

SM 282 E 12/02

PSN 262 BORNUM 22
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-G2
 LINE Baseline
 STA 124+90
 OFFSET 62 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 639.22
 ACTUAL COORDINATES (N) 1,061,896.950 (E) 430,294.950 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 22-MAR-1957 DATE FINISH 26-MAR-1957
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24		

BOTTOM OF HOLE AT 28.67 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
26-Mar-57	15:00	28.67	20.00	9.92		

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-G2

SM 282 E 12/02

PSN 262 BORNUM 6
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W7
 LINE Baseline
 STA 123+90
 OFFSET 135 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 635.12
 ACTUAL COORDINATES (N) 1,061,797.010 (E) 430,221.870 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 26-OCT-1965 DATE FINISH 28-OCT-1965
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil (0.40) Red Brown SILT , Some Clay, Trace Fractured Stone (M-PL)	
7		J1	6	7	8			
10								
14								
23	5.0							
37		J2	6	10	14			
37								
41								
40								
34	10.0							
44		J3	3	4	5		(10.00) Red Brown SILT , Some Clay (M-PL)	
51								
55								
44								
34	15.0							
27		J4	WOH	WOH	3			
24								
27								
27								
27	20.0							
33		J5	3	4	9		(20.00) Red Gray SILT , Some Sand And Clay, Trace Fractured Stone (M-PL)	
44								
72								
200								
228	25.0							

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE DH-W7

SM 282 E 12/02

PSN 262 BORNUM 6
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W7
 LINE Baseline
 STA 123+90
 OFFSET 135 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 635.12
 ACTUAL COORDINATES (N) 1,061,797.010 (E) 430,221.870 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 26-OCT-1965 DATE FINISH 28-OCT-1965
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0	J6	15				(25.00) Red Gray SILT , Some Sand And Fractured Stone (M-NPL)	
		R1		30			(25.75) Run #1 Drilled from 25'9" To 26'11" ROCK , Seamed And Broken	
		R2					(26.92) REC. 12" 85.5% 6 Run #2 Drilled from 26'11" To 30'11" ROCK , Seamed And Broken	
	30.0						REC. 48" 100% 22	

BOTTOM OF HOLE AT 30.92 ft

*Dug by hand from 0 to 1 foot.
 Used Solid Sampler for rock core run 1.*

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
28-Oct-65	15:00	30.92	25.00	17.72		

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-W7

SM 282 E 12/02

PSN 262 BORNUM 4
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE UD-GA-3
 LINE Baseline
 STA 122+88
 OFFSET 95 ft LEFT

UNOFFICIAL LOGPROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION IISURF. ELEV. 635.76ACTUAL COORDINATES (N) 1,061,694.980 (E) 430,261.790 DATUM NAD27 DEPTH TO WATER SEE NOTEDATE START 29-MAR-1966DATE FINISH 26-APR-1966

CASING O. D. 4 1/2 in I. D. 4 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 3 1/2 in I. D. 2 7/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil	
10		T1					(1.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
16		T2					(2.50) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
42							(4.00) Red Brown SILT , Trace To Some Clay (M-LPL)	
62	5.0							
42		L3	9	22			(5.50) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
60					30			
74		L4	17	30			(7.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
95					38			
165		J5	22	22			(8.50) Red Brown SILT , Trace To Some Clay, Trace Sand (M-LPL)	
35	10.0				17			
33		J6	5	8			(10.00) Red Brown SILT , Some Clay (M-PL)	
23					11			
26		T7					(11.50) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
24		T8					(13.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
21	15.0	T9					(14.50) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
17		L10	1	2			(16.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
15					2			
27		T11					(17.50) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
18	20.0	T12					(19.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
18		T13					(20.50) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
11								
21		L14	5	8			(22.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
27					18			
27	25.0	J15	29	66			(23.50) Brown SAND , Some Silt, Trace Clay (M-LPL)	
					86			

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DRILL RIG OPERATOR M. MuehlbauerSOIL & ROCK DESCRIPTION R. Smith

REG GEOTECHNICAL ENGINEER _____

UNOFFICIAL LOG

DATE APPROVED _____

RESIDENT ENGINEER _____

STRUCTURE NAME _____

B.I.N. _____

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2

HOLE UD-GA-3

SM 282 E 12/02

PSN 262 BORNUM 4
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE UD-GA-3
 LINE Baseline
 STA 122+88
 OFFSET 95 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 635.76
 ACTUAL COORDINATES (N) 1,061,694.980 (E) 430,261.790 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 29-MAR-1966 DATE FINISH 26-APR-1966
 CASING O. D. 4 1/2 in I. D. 4 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 3 1/2 in I. D. 2 7/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
42	25.0	J16	46	26	117		(25.00) Brown SILT , Some Sand And Fractured Stone, Trace Clay (M-LPL)	
87		R1					(26.75) Run #1 Drilled from 26'9" To 27'9" ROCK , Seamed And Broken REC. 12" 100% 8	

BOTTOM OF HOLE AT 27.75 ft

*Dug by hand from 0 to 1 foot.
 Refusal encountered on Tube 2, converted to jar sample.*

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

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE UD-GA-3

SM 282 E 12/02

PSN 262 BORNUM 7
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-E8
 LINE Baseline
 STA 119+25
 OFFSET 60 ft LEFT

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II

SURF. ELEV. 636.54

ACTUAL COORDINATES (N) 1.061,331.950 (E) 430,296.500 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 02-OCT-1965 DATE FINISH 01-NOV-1965

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil (0.50) Red Brown SILT , Some Clay (M-PL)	
13		J1	4	7	7			
19								
27								
40	5.0							
38		J2	7	11	14			
40								
49								
27								
32	10.0							
30		J3	4	7	9			
35								
50								
47								
45	15.0							
33		J4	2	4	4	18%	(15.00) Red Brown SILT , Some Clay, Trace Fractured Stone (M-PL)	
27								
25								
30								
	20.0							
		J5	200				(20.00) Red Brown SILT , Some Fractured Stone And Clay, Trace Sand (M-PL)	
		R1					(20.42) Run #1 Drilled from 20'5" To 21'5" ROCK , Seamed And Broken	
		R2					(21.42) REC. 12" 100% 7 Run #2 Drilled from 21'5" To 23'5" ROCK , Seamed And Broken	
		R3					(23.42) REC. 22" 91.7% 9 Run #3 Drilled from 23'5" To 25'5" ROCK , Seamed And Broken	
	25.0						REC. 24" 100% 12	

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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 1 OF 2 HOLE DH-E8

SM 282 E 12/02

PSN 262 BORNUM 7
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-E8
 LINE Baseline
 STA 119+25
 OFFSET 60 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 636.54
 ACTUAL COORDINATES (N) 1,061,331.950 (E) 430,296.500 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 02-OCT-1965 DATE FINISH 01-NOV-1965
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

BOTTOM OF HOLE AT 25.42 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
01-Nov-65	15:00	25.42	19.00	10.75		

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-E8

SM 282 E 12/02

PSN 8694 BORNUM 9
 REGION 5
 COUNTY ERIE
 PIN 5512.36.122
 PROJECT NY ROUTE 33, ELM/OAK TO ROUTE 198

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-X-9
 LINE CL
 STA 96+91.00
 OFFSET 46.98 ft LEFT
 SURF. ELEV. _____

PRELIMINARY LOG

SCALED COORDINATES (N) 1,060,791.840 (E) 430,215.680 DATUM NAD27 DEPTH TO WATER SEE NOTE
 DATE START 22-SEP-1999 DATE FINISH 22-SEP-1999
 CASING O. D. Power in I. D. Auger in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 1/2 in WT OF HAMMER-SAMPLER 308 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0	J1	32	19	18		4%	(0.00) Gray Brown Gravelly SAND ,Silty With Slag (M-NPL)
		J2	19	22	32		6%	
		J3	21	17	10		12%	
	5.0	J4	21				10%	
		R1		50				(5.20) Run #1 Drilled from 5'2" To 6'2" LIMESTONE REC. 10.8" 90% 2 AW DBL. TUBE SWIVEL Bit No NYS344 BOTTOM OF HOLE AT 6.20 ft

*Progressed hole DRY to 1.585 meters.
 Encountered wet conditions at 1.585 meters.
 Station and offset from Record Plans.*

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

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DRILL RIG OPERATOR R.N.SCHMITT
 SOIL & ROCK DESCRIPTION J.A.DENNEE
 REG GEOTECHNICAL ENGINEER _____
PRELIMINARY LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 1 HOLE FH-X-9

SM 282 E 12/02

PSN 262 BORNUM 21
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-G1
 LINE Baseline
 STA 113+42
 OFFSET 100 ft LEFT

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II

SURF. ELEV. 640.18

ACTUAL COORDINATES (N) 1,060,748.980 (E) 430,256.050 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 20-MAR-1957 DATE FINISH 22-MAR-1957

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

UNOFFICIAL LOG

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
7	0.0		6	12	18	24	(0.00) Red SILT , Some Clay (M-PL)	
7								
13								
18								
30	5.0							
26		J1	5	10				
39								
56								
64								
75	10.0							
58		J2	6	7				
39								
51								
57								
84	15.0							
90		J3	2	4				
81								
78								
101							(18.00) Red Gray SILT , Some Clay, Trace Very Fine Sand And Fine Gravel (M-PL)	
127	20.0							
95		J4	6	6				
91								
94								
146								
	25.0	R1					(24.00) Run #1 Drilled from 24'0" To 29'0" ROCK , Hard REC. 55" 91.7%	

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 1 OF 2 HOLE DH-G1

SM 282 E 12/02

PSN 262 BORNUM 21
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-G1
 LINE Baseline
 STA 113+42
 OFFSET 100 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 640.18
 ACTUAL COORDINATES (N) 1,060,748.980 (E) 430,256.050 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 20-MAR-1957 DATE FINISH 22-MAR-1957
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24		

BOTTOM OF HOLE AT 29.00 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
22-Mar-57	15:00	29.00	24.00	9.42		

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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-G1

SM 282 E 12/02

PSN 262 BORNUM 1
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-S1-2
 LINE Baseline
 STA 112+80
 OFFSET 60 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 640.17
 ACTUAL COORDINATES (N) 1,060,686.950 (E) 430,296.000 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 23-DEC-1965 DATE FINISH 28-DEC-1965
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil (0.37) Black SILT , Trace Sand And Organic (M-NPL)	
19		J1	3	3	5			
22								
21								
25	5.0						(5.00) Red Brown SILT , Some Clay, Trace Sand And Fractured Stone (M-PL)	
12		J2	3	7	12			
29								
36								
54								
74	10.0							
42		J3	5	9	11			
41								
45								
68								
69	15.0							
65		J4	4	5	7			
101								
116								
110								
100	20.0							
75		J5	2	6	7		(20.00) Lost Sample	
83							(21.50) Red Brown SILT , Some Clay, Trace Sand And Fractured Stone (M-PL)	
87								
87		J6	3	5	7			
	25.0							

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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 B.I.N. 1022630
 SHEET 1 OF 2 HOLE DH-S1-2

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 262 BORNUM 1
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-S1-2
 LINE Baseline
 STA 112+80
 OFFSET 60 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 640.17
 ACTUAL COORDINATES (N) 1,060,686.950 (E) 430,296.000 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 23-DEC-1965 DATE FINISH 28-DEC-1965
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0	J7	12				(25.00) Lost Sample	
		R1		6			(25.58) Run #1 Drilled from 25'7" To 29'4" ROCK , Seamed And Broken REC. 42" 93.3% 26	
	30.0	R2					(29.33) Run #2 Drilled from 29'4" To 30'7" ROCK , Seamed And 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.*

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
28-Dec-65	15:00	30.58	24.00	9.00		

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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 B.I.N. 1022630
 SHEET 2 OF 2 HOLE DH-S1-2

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 8694 BORNUM 4
 REGION 5
 COUNTY ERIE
 PIN 5512.36.122
 PROJECT NY ROUTE 33, ELM/OAK TO ROUTE 198

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-X-4
 LINE CL
 STA 93+25.00
 OFFSET 48 ft RIGHT
 SURF. ELEV. _____

SCALED COORDINATES (N) 1,060,427.670 (E) 430,307.540 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 15-SEP-1999 DATE FINISH 15-SEP-1999

CASING O. D. Power in I. D. Auger in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 1/2 in WT OF HAMMER-SAMPLER 308 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Gray Sandy Angular GRAVEL	
		J1	34	17		3%	(3.50) Gray Sandy Angular GRAVEL ,Silty (M-NPL)	
	5.0	J2	27	25	7	4%		
		J3	6	6	4	6%	(6.50) Gray Sandy Angular GRAVEL ,Silty Clayey (W-LPL)	
		J4	2	3	6	6%	(8.00) Gray Sandy Angular GRAVEL (W-NPL)	
	10.0	J5	11	7	4	3%		
		J6	9	30		29%	(11.00) Gray Sandy Angular GRAVEL ,With Wood (W-NPL)	
		R1			50		(12.20) Run #1 Drilled from 12'2" To 13'2" LIMESTONE REC. 10.8" 90% 5 AW DBL. TUBE SWIVEL Bit No NYS344 BOTTOM OF HOLE AT 13.20 ft	

Progressed hole DRY to 3.718 meters.
 Went two times for sample number 5.
 Encountered wet conditions in sample number 4.
 Station and offset from Record Plans.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
15-Sep-99	14:10	13.20	12.20	4.60		NO
15-Sep-99	14:20	13.20	0.00	NONE		NO

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DRILL RIG OPERATOR R.N.SCHMITT
 SOIL & ROCK DESCRIPTION J.A.DENNEE
 REG GEOTECHNICAL ENGINEER PRELIMINARY LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME B.I.N.

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 1

HOLE FH-X-4

SM 282 E 12/02

PSN 262 BORNUM 15
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W15
 LINE Baseline
 STA 109+30
 OFFSET 185 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 649.44
 ACTUAL COORDINATES (N) 1,060,336.930 (E) 430,170.800 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 02-NOV-1955 DATE FINISH 04-NOV-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
10	0.0						(0.00) Red Brown SILT , Some Clay, Trace Sand And Gravel (M-PL)	
19								
31								
31								
36	5.0							
57		J200	14	18				
63								
82								
93								
112	10.0							
73		J201	13	12			(11.00) Red Gray SILT , Some Clay, Trace Sand And Gravel (M-PL)	
60								
64								
74								
81	15.0							
76		J202	4	6				
65								
66								
73								
90	20.0							
100		J203	4	6				
125								
144								
125								
122	25.0							

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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 1 OF 2 HOLE DH-W15

SM 282 E 12/02

PSN 262 BORNUM 15
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W15
 LINE Baseline
 STA 109+30
 OFFSET 185 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 649.44
 ACTUAL COORDINATES (N) 1,060,336.930 (E) 430,170.800 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 02-NOV-1955 DATE FINISH 04-NOV-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
95	25.0	J204	2	6			(25.00) Red Gray SILT , Some Clay, Trace Sand And Gravel (M-PL)	
131								
168								
263								
273	30.0							

J205 15 _____ BOTTOM OF HOLE AT 30.25 ft

80 _____

Flint-Limestone rock, seamed and very hard, encountered at 30.25 feet.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
04-Nov-55	15:00	30.25	30.25	9.50		

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-W15

SM 282 E 12/02

PSN 262 BORNUM 14
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W14
 LINE Baseline
 STA 109+28
 OFFSET 133 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 649.33
 ACTUAL COORDINATES (N) 1,060,334.930 (E) 430,222.800 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 04-NOV-1955 DATE FINISH 07-NOV-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
16	0.0						(0.00) Red Brown SILT , Some Clay, Trace Sand And Gravel (M-PL)	
36								
93								
95								
54	5.0							
27		J195	6	11				
56								
78								
112								
161	10.0							
58		J196	8	11			(10.00) Red Gray SILT , Some Clay, Trace Sand And Gravel (M-PL)	
50								
47								
53								
58	15.0							
60		J197	5	9				
68								
75								
95								
100	20.0							
74		J198	3	5				
100								
160								
152								
152	25.0							

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE DH-W14

SM 282 E 12/02

PSN 262 BORNUM 14
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W14
 LINE Baseline
 STA 109+28
 OFFSET 133 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 649.33
 ACTUAL COORDINATES (N) 1,060,334.930 (E) 430,222.800 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 04-NOV-1955 DATE FINISH 07-NOV-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
130	25.0	J199	5	6			(25.00) Red Gray SILT , Some Clay, Trace Sand And Gravel (M-PL)	
130								
131								
179								
200								

BOTTOM OF HOLE AT 29.84 ft

Flint-Limestone rock, seamed and very hard, encountered at 29.84 feet.

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

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-W14

SM 282 E 12/02

PSN 262 BORNUM 13
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-10E
 LINE Baseline
 STA 109+00.5
 OFFSET 105.7 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 650.1
 ACTUAL COORDINATES (N) 1,060,307.400 (E) 430,249.980 DATUM NAD27 DEPTH TO WATER 8.25

DATE START 19-OCT-1955 DATE FINISH 19-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0		6	12	18	24		(0.00) No Samples Taken 2.5 Inch Cased Probe Hole
	5.0							
	10.0							
	15.0							
	20.0							
	25.0							

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 1 OF 2 HOLE PH-10E

SM 282 E 12/02

PSN 262 BORNUM 13
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-10E
 LINE Baseline
 STA 109+00.5
 OFFSET 105.7 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 650.1
 ACTUAL COORDINATES (N) 1,060,307.400 (E) 430,249.980 DATUM NAD27 DEPTH TO WATER 8.25

DATE START 19-OCT-1955 DATE FINISH 19-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24	(25.00) No Samples Taken 2.5 Inch Cased Probe Hole	
	30.0							
		R1					(31.67) Run #1 Drilled from 31'8" To 34'8" ROCK , Seamed And Broken REC. 36" 100%	

BOTTOM OF HOLE AT 34.67 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 _____
 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-10E

SM 282 E 12/02

PSN 262 BORNUM 3
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-E3
 LINE Baseline
 STA 105+63
 OFFSET 105 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II SURF. ELEV. 654.36
 ACTUAL COORDINATES (N) 1,059,969.980 (E) 430,250.430 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 03-NOV-1965 DATE FINISH 09-NOV-1965
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Topsoil (0.40) Red Brown SILT , Trace To Some Clay (M-LPL)	
14		J1	7	9	11			
16								
19								
26	5.0							
37		J2	5	7	12		(5.00) Red Brown SILT , Trace To Some Clay, Trace Sand (M-LPL)	
55								
75								
96								
103	10.0							
58		J3	10	12	14		(10.00) Red Brown SILT , Some Clay And Fractured Stone (W-PL)	
49								
58								
76								
97	15.0							
101		J4	4	5	7			
139								
136								
149								
147	20.0							
123		J5	4	6	5			
133								
177								
167								
158	25.0							

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 R. Smith
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE DH-E3

SM 282 E 12/02

PSN 262 BORNUM 3
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-E3
 LINE Baseline
 STA 105+63
 OFFSET 105 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II
 ACTUAL COORDINATES (N) 1,059,969.980 (E) 430,250.430 DATUM NAD27 SURF. ELEV. 654.36
 DATE START 03-NOV-1965 DATE FINISH 09-NOV-1965 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
128	25.0	J6	3	5	7		(25.00) Red Brown SILT , Some Clay And Fractured Stone (W-PL)	
105								
124								
117								
101	30.0	J7	4	6	6			
112								
109								
112								
110								
140	35.0	J8	6	7	8		(35.00) Red Brown SILT , Some Clay, Trace Sand And Fractured Stone (M-PL)	
192								
168								
105								
	40.0	R1					(38.16) Run #1 Drilled from 38'2" To 40'2" ROCK , Seamed And Broken REC. 23" 95.8% 9	
		R2					(40.16) Run #2 Drilled from 40'2" To 41'8" ROCK , Seamed And Broken REC. 12" 66.7% 5	
		R3					(41.66) Run #3 Drilled from 41'8" To 43'2" ROCK , Seamed And Broken REC. 17" 94.4% 7	

BOTTOM OF HOLE AT 43.16 ft

Dug by hand from 0 to 1 foot.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
09-Nov-65	15:00	43.16	37.16	8.36		

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-E3

SM 282 E 12/02

PSN 262 BORNUM 16
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W16
 LINE Baseline
 STA 103+63
 OFFSET 62 ft LEFT

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II
 ACTUAL COORDINATES (N) 1,059,769.740 (E) 430,293.300 DATUM NAD27

SURF. ELEV. 648.24
 DEPTH TO WATER SEE NOTE

DATE START 07-NOV-1955 DATE FINISH 10-NOV-1955

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

UNOFFICIAL LOG

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
6	0.0						(0.00) Gray Brown SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
6								
6								
22								
31	5.0							
36		J215	4	7				
51								
85								
115								
116	10.0							
53		J216	8	16				
70								
61								
70								
83	15.0						(14.00) Gray SILT , Trace Sand, Clay And Gravel (M-LPL)	
54		J217	6	8				
52								
60								
97								
130	20.0							
84		J218	5	9				
93								
87								
104								
135	25.0							

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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 1 OF 2 HOLE DH-W16

SM 282 E 12/02

PSN 262 BORNUM 16
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W16
 LINE Baseline
 STA 103+63
 OFFSET 62 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY ARTERIAL HIGHWAY, SECTION II
 ACTUAL COORDINATES (N) 1,059,769.740 (E) 430,293.300 DATUM NAD27 SURF. ELEV. 648.24
 DATE START 07-NOV-1955 DATE FINISH 10-NOV-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
120	25.0	J219	2	4			(25.00) Gray SILT , Trace Sand, Clay And Gravel (M-LPL)	
138								
152								
133								
148	30.0	J220	3	4				
117								
130								
136								
132								
115	35.0	J221	3	4				
150								
118								
108								
108								
120	40.0	J222	4	4			(39.00) Gray SILT , Some Sand And Fine Gravel, Trace Clay (M-LPL)	
110								
127								
131								

BOTTOM OF HOLE AT 42.92 ft

Flint-Limestone rock, seamed and very hard, encountered at 42.92 feet.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
10-Nov-55	15:00	42.92	42.75	10.75		

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-W16

SM 282 E 12/02

PSN 11444 BORNUM 77
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-5B
 LINE Baseline
 STA 101+35
 OFFSET 239 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,541.600 (E) 430,116.180 DATUM NAD27 SURF. ELEV. 658.69
 DATE START 16-SEP-1955 DATE FINISH 21-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
9	0.0						(0.00) Mottled Yellow Brown Gray SILT , Some Sand, Trace Clay And Fine Gravel (M-LPL)	
16								
32								
45								
58	5.0							
67		J32	16	20			(6.00) Gray SILT , Some Sand, Trace Clay (M-LPL)	
113								
127								
148								
152	10.0							
108		J33	11	13				
110								
123								
120								
98	15.0						(14.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
67		J34	5	6				
58								
70								
76								
80	20.0							
81		J35	5	6				
79								
68								
92								
100	25.0							

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022620
 Northampton over Kensington Expressway
 SHEET 1 OF 3 HOLE DH-5B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 77
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-5B
 LINE Baseline
 STA 101+35
 OFFSET 239 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,541.600 (E) 430,116.180 DATUM NAD27 SURF. ELEV. 658.69
 DATE START 16-SEP-1955 DATE FINISH 21-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
79	25.0	J36	8	7			(25.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
81								
80								
78								
95	30.0	J37	3	3				
90								
85								
100								
106								
111	35.0	J38	3	4				
89								
91								
100								
109								
110	40.0	J39	1	2				
142								
138								
133								
143								
153	45.0	R1					(45.08) Run #1 Drilled from 45'1" To 50'0" ROCK , Seamed And Broken REC. 59" 99.9%	
84								
	50.0							

BOTTOM OF HOLE AT 50.00 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 _____
 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 2 OF 3 HOLE DH-5B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 77
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-5B
 LINE Baseline
 STA 101+35
 OFFSET 239 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,541.600 (E) 430,116.180 DATUM NAD27 SURF. ELEV. 658.69
 DATE START 16-SEP-1955 DATE FINISH 21-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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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 B.I.N. 1022620
 SHEET 3 OF 3 HOLE DH-5B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 79
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-7B
 LINE Baseline
 STA 100+10
 OFFSET 125 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,416.840 (E) 430,230.080 DATUM NAD27 SURF. ELEV. 657.36
 DATE START 09-SEP-1955 DATE FINISH 13-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
40	0.0						(0.00) Brown SILT , Some Sand, Trace Fine Gravel (M-NPL)	
120								
90								
73								
63	5.0							
71		J9	21	23				
69								
77								
99							(8.00) Red Gray SILT , Some Clay, Trace Fine Gravel And Sand (M-PL)	
84	10.0							
111		J10	8	12				
70								
62								
54								
67	15.0						(14.00) Red Gray SILT , Some Sand And Fine Gravel, Trace Clay (M-LPL)	
75		J11	5	5				
76								
90								
78								
81	20.0							
71		J12	4	4				
68								
51							(22.00) Red Gray Fine SAND , Some Silt (W-NPL)	
50								
53	25.0							

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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 1 OF 3 HOLE DH-7B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 79
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-7B
 LINE Baseline
 STA 100+10
 OFFSET 125 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,416.840 (E) 430,230.080 DATUM NAD27 SURF. ELEV. 657.36
 DATE START 09-SEP-1955 DATE FINISH 13-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
86	25.0	J13	5	7			(25.00) Red Gray Fine SAND , Some Silt (W-NPL)	
88								
80								
75								
84	30.0							
61		J14	7	9				
58								
51								
50								
47	35.0							
62		J15	1	2			(35.00) Gray SILT , Some Clay, Sand And Fine Gravel (W-PL)	
68								
60								
58								
62	40.0							
44		J16	2	3				
102								
		R1					(41.92) Run #1 Drilled from 41'11" To 46'7" ROCK , Seamed REC. 54" 96.6%	
	45.0							

BOTTOM OF HOLE AT 46.58 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 _____
 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 2 OF 3 HOLE DH-7B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 79
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-7B
 LINE Baseline
 STA 100+10
 OFFSET 125 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 657.36
 ACTUAL COORDINATES (N) 1,059,416.840 (E) 430,230.080 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 09-SEP-1955 DATE FINISH 13-SEP-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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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-7B

CONTRACT _____ CONTRACTOR _____

PSN 11444 BORNUM 73
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-1A
 LINE Baseline
 STA 100+05
 OFFSET 216 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,412.440 (E) 430,139.190 DATUM NAD27 SURF. ELEV. 658.22
 DATE START 16-SEP-1955 DATE FINISH 20-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0	J48					(0.00) Black SILT , Some Sand And Organic (M-NPL)	
		J49					(1.00) Yellow Brown SAND , Trace Silt And Gravel (M-NPL)	
		J50					(2.00) Gray Brown SAND , Trace Silt And Gravel (M-NPL)	
		J51					(3.00) Red Brown SILT , Some Clay, Trace Sand (M-PL)	
	5.0						(5.00) No Samples Taken	
83							Hole Progressed As A Cased Probe Hole	
78								
81								
78								
86	10.0							
186								
138								
213								
178								
163	15.0							
170								
147								
168								
199								
213	20.0							
153								
145								
143								
132								
137	25.0							

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. _____

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 3 HOLE PH-1A

SM 282 E 12/02

PSN 11444 BORNUM 73
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-1A
 LINE Baseline
 STA 100+05
 OFFSET 216 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,412.440 (E) 430,139.190 DATUM NAD27 SURF. ELEV. 658.22
 DATE START 16-SEP-1955 DATE FINISH 20-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
90	25.0						(25.00) No Samples Taken Hole Progressed As A Cased Probe Hole	
83								
97								
109								
89	30.0							
91								
88								
69								
70								
84	35.0							
92								
87								
97								
99								
119	40.0							
98								
107								
111								
46								
	45.0						(45.84) Run #1 Drilled from 45'10" To 50'10" ROCK , Seamed And Broken REC. 60" 100%	
		R1						
	50.0							

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. _____

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 3 HOLE PH-1A

SM 282 E 12/02

PSN 11444 BORNUM 73
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-1A
 LINE Baseline
 STA 100+05
 OFFSET 216 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,412.440 (E) 430,139.190 DATUM NAD27 SURF. ELEV. 658.22
 DATE START 16-SEP-1955 DATE FINISH 20-SEP-1955 DEPTH TO WATER SEE NOTE
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
50.0			6	12	18	24		

BOTTOM OF HOLE AT 50.84 ft

*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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
20-Sep-55	15:00	50.84	43.16	14.17		

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

CONTRACT _____ CONTRACTOR _____

SHEET 3 OF 3 HOLE PH-1A

SM 282 E 12/02

PSN 11444 BORNUM 75
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-3B
 LINE Baseline
 STA 100+06
 OFFSET 275 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1.059,412.830 (E) 430.080.180 DATUM NAD27 SURF. ELEV. 658.09
 DATE START 20-SEP-1955 DATE FINISH 22-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
13	0.0		6	12	18	24	(0.00) Yellow Brown SILT , Some Sand, Trace Clay (M-LPL)	
26								
43								
58								
62	5.0							
56		J58	25	38				
78							(7.00) Red Brown SILT , Some Clay, Trace Sand (M-PL)	
76								
78								
83	10.0							
66		J59	12	21				
87								
110								
168								
163	15.0							
70		J60	6	8			(15.00) Red Gray SILT , Some Clay And Sand, Trace Gravel (M-PL)	
53								
51								
64								
77	20.0							
68		J61	3	3				
55								
50								
49								
55	25.0							

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022620
 Northampton over Kensington Expressway
 SHEET 1 OF 3 HOLE DH-3B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 75
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-3B
 LINE Baseline
 STA 100+06
 OFFSET 275 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1.059,412.830 (E) 430.080.180 DATUM NAD27 SURF. ELEV. 658.09
 DATE START 20-SEP-1955 DATE FINISH 22-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
93	25.0	J62	3	11			(25.00) Red Gray SILT , Some Clay And Sand, Trace Gravel (M-PL)	
140								
200								
231								
241	30.0						(29.00) Red Gray SILT , Some Sand, Fine Gravel And Clay (M-PL)	
92		J63	2	3				
97								
111								
121								
151	35.0							
56		J64	1	2				
78								
80								
81								
62	40.0							
70		J65	1	1				
93								
99								
36	45.0	R1					(43.17) Run #1 Drilled from 43'2" To 48'2" ROCK , Seamed And Broken REC. 60" 100%	

BOTTOM OF HOLE AT 48.17 ft

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022620
 Northampton over Kensington Expressway
 SHEET 2 OF 3 HOLE DH-3B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 75
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-3B
 LINE Baseline
 STA 100+06
 OFFSET 275 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,412.830 (E) 430,080.180 DATUM NAD27 SURF. ELEV. 658.09
 DATE START 20-SEP-1955 DATE FINISH 22-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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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 _____

SM 282 E 12/02

PSN 11444 BORNUM 74
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-2B
 LINE Baseline
 STA 99+34
 OFFSET 307 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1.059,341.050 (E) 430,047.830 DATUM NAD27 SURF. ELEV. 657.76
 DATE START 13-SEP-1955 DATE FINISH 15-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
14	0.0						(0.00) Brown SILT , Some Sand (M-NPL)	
50								
118								
295								
130	5.0							
60		J24	17	20				
96								
123								
122								
115	10.0							
74		J25	6	10			(10.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
66								
63								
76								
77	15.0							
47		J26	3	4				
43								
37								
36								
27	20.0							
37		J27	3	4				
33								
35								
40								
45	25.0						(24.00) Red Gray SILT , Some Clay, Gravel And Sand (M-PL)	

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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 1 OF 3 HOLE DH-2B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 74
 REGION 5
 COUNTY ERIE
 PIN _____
 PROJECT KENSINGTON EXPRESSWAY, SECTION I

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-2B
 LINE Baseline
 STA 99+34
 OFFSET 307 ft LEFT
 SURF. ELEV. 657.76
 DEPTH TO WATER SEE NOTE

UNOFFICIAL LOG

ACTUAL COORDINATES (N) 1.059,341.050 (E) 430,047.830 DATUM NAD27
 DATE START 13-SEP-1955 DATE FINISH 15-SEP-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
38	25.0	J28	2	3			(25.00) Red Gray SILT , Some Clay, Gravel And Sand (M-PL)	
48								
50								
58								
59	30.0	J29	3	5				
48								
88								
108								
130								
140	35.0	J30	4	4				
78								
87								
82								
83								
80	40.0	J31	4	4				
90								
92								
97								
63	45.0	R1					(43.17) Run #1 Drilled from 43'2" To 48'2" ROCK , Seamed REC. 42" 70%	

BOTTOM OF HOLE AT 48.17 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 _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022620
 Northampton over Kensington Expressway
 SHEET 2 OF 3 HOLE DH-2B

CONTRACT _____ CONTRACTOR _____

PSN 11444 BORNUM 74
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-2B
 LINE Baseline
 STA 99+34
 OFFSET 307 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,341.050 (E) 430,047.830 DATUM NAD27 SURF. ELEV. 657.76
 DATE START 13-SEP-1955 DATE FINISH 15-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

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

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME Northampton over Kensington Expressway B.I.N. 1022620
 SHEET 3 OF 3 HOLE DH-2B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 76
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-4B
 LINE Baseline
 STA 97+11
 OFFSET 164 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1.059,309.710 (E) 430.098.850 DATUM NAD27 SURF. ELEV. 657.16
 DATE START 08-SEP-1955 DATE FINISH 12-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
22	0.0		6	12	18	24	(0.00) Red Brown SILT , Some Sand, Trace Clay (M-LPL)	
76								
92								
140								
132	5.0							
180		J1	33	34				
106								
115								
105								
107	10.0							
148		J2	9	9			(10.00) Gray Brown SILT AND SAND , Trace Clay And Gravel (M-LPL)	
122								
110								
112								
114	15.0							
76		J3	4	6			(16.00) Gray Brown SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
74								
75								
74								
103	20.0							
110		J4	3	4				
144								
140								
146								
132	25.0							

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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 1 OF 3 HOLE DH-4B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 76
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-4B
 LINE Baseline
 STA 97+11
 OFFSET 164 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1.059,309.710 (E) 430.098.850 DATUM NAD27 SURF. ELEV. 657.16
 DATE START 08-SEP-1955 DATE FINISH 12-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
113	25.0	J5	4	6			(25.00) Gray Brown SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
111								
109								
103								
111	30.0	J6	WOH	WOH				
92								
100								
100								
92								
102	35.0	J7	2	2				
87								
95								
100								
102								
110	40.0	J8	2	2				
90								
90								
33		R1					(43.17) Run #1 Drilled from 43'2" To 48'2" ROCK , Continuous Seamed REC. 60" 100%	
	45.0							

BOTTOM OF HOLE AT 48.17 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 _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022620
 Northampton over Kensington Expressway
 SHEET 2 OF 3 HOLE DH-4B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 76
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-4B
 LINE Baseline
 STA 97+11
 OFFSET 164 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,309.710 (E) 430,098.850 DATUM NAD27 SURF. ELEV. 657.16
 DATE START 08-SEP-1955 DATE FINISH 12-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
			6	12	18	24		

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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 _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME Northampton over Kensington Expressway B.I.N. 1022620
 SHEET 3 OF 3 HOLE DH-4B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 78
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-6B
 LINE Baseline
 STA 99+25
 OFFSET 126 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,331.840 (E) 430,229.010 DATUM NAD27 SURF. ELEV. 656.15
 DATE START 14-SEP-1955 DATE FINISH 15-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
12	0.0						(0.00) Brown SILT , Some Sand (M-NPL)	
35								
64								
77								
79	5.0							
65		J17	19	23				
60								
58								
62							(8.00) Red Gray SILT , Some Clay, Trace Fine Gravel (M-PL)	
78	10.0							
53		J18	5	9				
63								
64								
99								
103	15.0							
68		J19	3	5				
75								
95								
85								
87	20.0							
91		J20	2	2				
71								
73								
73								
76	25.0							

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME Northampton over Kensington Expressway B.I.N. 1022620
 SHEET 1 OF 2 HOLE DH-6B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 78
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-6B
 LINE Baseline
 STA 99+25
 OFFSET 126 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,331.840 (E) 430,229.010 DATUM NAD27 SURF. ELEV. 656.15
 DATE START 14-SEP-1955 DATE FINISH 15-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
55	25.0	J21	1	2			(25.00) Red Gray SILT , Some Clay, Trace Fine Gravel (M-PL)	
63							(28.00) Gray SILT , Some Gravel, Clay And Sand (W-PL)	
52	30.0	J22	1	2				
78								
76								
100	35.0	J23	2	2				
75								
92								
90								
	40.0	R1					(38.83) Run #1 Drilled from 38'10" To 43'7" ROCK , Seamed REC. 34" 59.6%	

BOTTOM OF HOLE AT 43.58 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
15-Sep-55	15:00	43.58	38.83	8.33		

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022620
 _____ Northampton over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-6B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 72
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-1B
 LINE WP BL
 STA 11+64
 OFFSET 78.5 ft RIGHT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,059,201.500 (E) 429,978.560 DATUM NAD27 SURF. ELEV. 657.03
 DATE START 18-SEP-1955 DATE FINISH 21-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
23	0.0						(0.00) Red Brown SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
57								
123								
127								
75	5.0							
66		J40	15	23				
128								
110								
108								
96	10.0							
51		J41	13	13				
54								
77								
80							(13.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
81	15.0							
73		J42	4	4				
45								
48								
52								
69	20.0							
70		J43	3	2				
72								
65								
66								
70	25.0							

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE DH-1B

SM 282 E 12/02

PSN 11444 BORNUM 72
 REGION 5
 COUNTY ERIE
 PIN _____
 PROJECT KENSINGTON EXPRESSWAY, SECTION I

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-1B
 LINE WP BL
 STA 11+64
 OFFSET 78.5 ft RIGHT
 SURF. ELEV. 657.03

UNOFFICIAL LOG

ACTUAL COORDINATES (N) 1.059,201.500 (E) 429,978.560 DATUM NAD27 DEPTH TO WATER SEE NOTE
 DATE START 18-SEP-1955 DATE FINISH 21-SEP-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
75	25.0	J44	2	4			(25.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL) (26.00) Brown Gray SILT , Some Clay, Sand And Fine Gravel (M-PL)	
90								
92								
93								
83	30.0	J45	5	4				
70								
90								
102								
94								
98	35.0	J46	2	2				
72								
75								
78								
76								
81	40.0							
110		R1					(40.75) Run #1 Drilled from 40'9" To 45'9" ROCK , Seamed And Broken REC. 60" 100%	
	45.0							

BOTTOM OF HOLE AT 45.75 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
21-Sep-55	15:00	45.75	40.75	14.33		

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-1B

SM 282 E 12/02

PSN 11444 BORNUM 82
 REGION 5
 COUNTY ERIE
 PIN _____
 PROJECT KENSINGTON EXPRESSWAY, SECTION I

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE UD-US2
 LINE CL
 STA 77+22
 OFFSET 30 ft RIGHT
 SURF. ELEV. 652.13

UNOFFICIAL LOG

ACTUAL COORDINATES (N) 1,058,865.700 (E) 429,958.630 DATUM NAD27 DEPTH TO WATER SEE NOTE
 DATE START 15-MAR-1956 DATE FINISH 19-MAR-1956
 CASING O. D. 4 1/2 in I. D. 4 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 3 1/2 in I. D. 2 7/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
10	0.0						(0.00) Brown SILT , Some Clay, Trace Fine Sand (M-PL)	
21								
47								
37								
76	5.0	J236	13	18				
59								
124								
199								
253								
299	10.0							
97		J237	10	21				
143		J238	17	24				
164								
158								
101	15.0	J239	10				(14.00) Red Gray SILT , Some Clay (M-PL)	
76		T240					(15.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
75								
76		T241					(17.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
76								
57	20.0	T242					(19.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
46								
39		T243					(21.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
47								
56		T244					(23.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
71	25.0							

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE UD-US2

SM 282 E 12/02

PSN 11444 BORNUM 82
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE UD-US2
 LINE CL
 STA 77+22
 OFFSET 30 ft RIGHT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,865.700 (E) 429,958.630 DATUM NAD27 SURF. ELEV. 652.13
 DATE START 15-MAR-1956 DATE FINISH 19-MAR-1956 DEPTH TO WATER SEE NOTE

CASING O. D. 4 1/2 in I. D. 4 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 3 1/2 in I. D. 2 7/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
39	25.0	T245					(25.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
41		T246					(27.00) Description Of Undisturbed Soil Samples Shown on Form SM 401, UNDISTURBED SAMPLE SUMMARY LOG	
43								
42								
112	30.0						(29.00) Gray GRAVEL AND SILT , Some Sand (M-NPL)	
		J247	10					
67			41				BOTTOM OF HOLE AT 30.66 ft	

Refusal on Limestone rock encountered at 30.66 feet.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
19-Mar-56	15:00	30.66	30.66	11.57		

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION H. Daniels
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE UD-US2

SM 282 E 12/02

PSN 11444 BORNUM 66
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-4B
 LINE Baseline
 STA 92+31.5
 OFFSET 292 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,795.470 (E) 429,789.230 DATUM NAD27 SURF. ELEV. 654.49
 DATE START 27-SEP-1955 DATE FINISH 28-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
7	0.0						(0.00) Yellow Brown SILT , Some Sand, Trace Clay (M-LPL)	
9								
19								
18								
35	5.0							
64		J84	13	16				
72								
66								
255								
126	10.0							
45		J85	12	8			(11.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
53								
53								
54								
63	15.0							
54		J86	2	2				
34								
34								
54								
41	20.0							
42		J87	1	1				
45								
45								
43								
55	25.0							

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
Dodge Street over Kensington Expressway
 SHEET 1 OF 2 HOLE DH-4B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 66
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-4B
 LINE Baseline
 STA 92+31.5
 OFFSET 292 ft LEFT

PROJECT KENSINGTON EXPRESSWAY, SECTION I

SURF. ELEV. 654.49

ACTUAL COORDINATES (N) 1,058,795.470 (E) 429,789.230 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 27-SEP-1955 DATE FINISH 28-SEP-1955

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

UNOFFICIAL LOG

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
46	25.0	J88	2	2			(25.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
57								
47								
47								
49	30.0							
40		J89	1	2				
46								
42								
35		R1					(33.67) Run #1 Drilled from 33'8" To 36'4" ROCK , Seamed And Broken REC. 28" 87.7%	
	35.0							
		R2					(36.33) Run #2 Drilled from 36'4" To 39'4" ROCK , Seamed And Broken REC. 32" 88.9%	

BOTTOM OF HOLE AT 39.33 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
28-Sep-55	15:00	39.33	33.67	13.17		

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
 Dodge Street over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-4B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 64
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-2B
 LINE Baseline
 STA 91+65
 OFFSET 272 ft LEFT

PROJECT KENSINGTON EXPRESSWAY, SECTION I

SURF. ELEV. 650.88

ACTUAL COORDINATES (N) 1,058,755.240 (E) 429,800.200 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 23-SEP-1955 DATE FINISH 26-SEP-1955

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

UNOFFICIAL LOG

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
19	0.0						(0.00) Yellow Brown SILT , Some Sand (M-NPL)	
27								
30								
57								
91	5.0							
59		J52	11	15				
53								
52								
57								
60	10.0						(9.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
50		J53	5	3				
51								
54								
50								
49	15.0							
35		J54	1	1				
30								
30								
32								
39	20.0							
45		J55	1	2				
40								
39								
42								
41	25.0							

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
 Dodge Street over Kensington Expressway
 SHEET 1 OF 2 HOLE DH-2B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 64
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-2B
 LINE Baseline
 STA 91+65
 OFFSET 272 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,755.240 (E) 429,800.200 DATUM NAD27 SURF. ELEV. 650.88
 DATE START 23-SEP-1955 DATE FINISH 26-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
29	25.0	J56	1	1			(25.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
33								
42							(27.00) Gray SILT , Some Gravel, Sand And Clay (M-PL)	
47								
48	30.0							
		J57 R1	2				(30.48) Run #1 Drilled from 30'6" To 35'6" ROCK , Seamed And Broken REC. 60" 99.6%	
	35.0							
		R2					(35.50) Run #2 Drilled from 35'6" To 37'6" ROCK REC. 24" 100%	

BOTTOM OF HOLE AT 37.50 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
26-Sep-55	15:00	37.50	35.00	11.67		

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
 Dodge Street over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-2B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 63
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-1B
 LINE Baseline
 STA 91+01
 OFFSET 353 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,719.200 (E) 429,703.170 DATUM NAD27 SURF. ELEV. 652.63
 DATE START 27-SEP-1955 DATE FINISH 28-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	0.0						(0.00) Yellow Brown SAND AND SILT (M-NPL)	
	5.0	J90						
62								
120								
116							(8.00) Gray Brown SILT , Some Clay And Sand, Trace Gravel (M-PL)	
90								
94	10.0							
65		J91	7	8				
93								
116								
130								
155	15.0							
90		J92	4	3				
91								
93								
96								
104	20.0							
58		J93	4	7				
67								
68								
80								
90	25.0							

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
Dodge Street over Kensington Expressway
 SHEET 1 OF 2 HOLE DH-1B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 63
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-1B
 LINE Baseline
 STA 91+01
 OFFSET 353 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,719.200 (E) 429,703.170 DATUM NAD27 SURF. ELEV. 652.63
 DATE START 27-SEP-1955 DATE FINISH 28-SEP-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
82	25.0	J94	3	5			(25.00) Gray Brown SILT , Some Clay And Sand, Trace Gravel (M-PL)	
91								
123								
112								
115	30.0							
48		J95	2	2				
52		R1					(31.75) Run #1 Drilled from 31'9" To 36'9" ROCK , Seamed And Broken REC. 60" 100%	
	35.0							

BOTTOM OF HOLE AT 36.75 ft

Augered ahead of casing by hand from 0 to 5 feet.
 Sample 90 obtained from auger.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
28-Sep-55	15:00	36.75	31.75	11.50		

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
 Dodge Street over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-1B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 69
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-1A
 LINE Baseline
 STA 90+97
 OFFSET 319 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,704.570 (E) 429,734.160 DATUM NAD27 SURF. ELEV. 652.27
 DATE START 23-SEP-1955 DATE FINISH 26-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0	J67					(0.00) Black SILT , Some Sand And Organic - Topsoil (M-NPL)	
		J68					(0.50) Brown Black SILT , Some Sand, Trace Organic And Clay (M-LPL)	
		J69					(1.50) Brown SAND , Some Silt (M-NPL)	
		J70					(3.50) Yellow Brown SAND , Some Silt (M-NPL)	
	5.0						(5.00) No Samples Taken Hole Progressed As A Cased Probe Hole	
48								
54								
58								
79								
103	10.0							
200								
204								
194								
135								
120	15.0							
118								
148								
152								
188								
162	20.0							
100								
88								
90								
89								
84	25.0							

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE PH-1A

SM 282 E 12/02

PSN 11444 BORNUM 69
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-1A
 LINE Baseline
 STA 90+97
 OFFSET 319 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 652.27
 ACTUAL COORDINATES (N) 1,058,704.570 (E) 429,734.160 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 23-SEP-1955 DATE FINISH 26-SEP-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
80	25.0		6	12	18	24	(25.00) No Samples Taken Hole Progressed As A Cased Probe Hole	
83								
89								
90								
107	30.0							
70								
84		R1					(31.50) Run #1 Drilled from 31'6" To 36'6" ROCK , Seamed And Broken REC. 60" 100%	
	35.0							

BOTTOM OF HOLE AT 36.50 ft

Augered ahead of casing by hand from 0 to 5 feet.
 Samples 67 through 70 obtained from auger.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
26-Sep-55	15:00	36.50	31.50	5.33		

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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

SM 282 E 12/02

PSN 11444 BORNUM 65
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-3B
 LINE Baseline
 STA 90+41.5
 OFFSET 239 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,627.360 (E) 429,793.100 DATUM NAD27 SURF. ELEV. 650.51
 DATE START 27-SEP-1955 DATE FINISH 28-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
14	0.0						(0.00) Yellow Brown SILT , Some Sand, Trace Clay And Fine Gravel (M-LPL)	
37								
78								
86								
68	5.0							
27		J96	11	14				
30								
52								
50								
58	10.0							
49		J97	9	12			(11.00) Red Gray SILT , Some Clay, Trace Fine Sand And Gravel (M-PL)	
42								
50								
51								
41	15.0							
47		J98	4	4				
47								
48								
54								
71	20.0							
52		J99	5	4				
70								
72								
75								
70	25.0							

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
 Dodge Street over Kensington Expressway
 SHEET 1 OF 2 HOLE DH-3B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 65
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-3B
 LINE Baseline
 STA 90+41.5
 OFFSET 239 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,627.360 (E) 429,793.100 DATUM NAD27 SURF. ELEV. 650.51
 DATE START 27-SEP-1955 DATE FINISH 28-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
65	25.0	J100	4	5				(25.00) Red Gray SILT , Some Clay, Trace Fine Sand And Gravel (M-PL)	
85									
90									
88									
69	30.0								
35		R1						(30.25) Run #1 Drilled from 30'3" To 35'3" ROCK , Seamed And Broken REC. 60" 100%	
	35.0								

BOTTOM OF HOLE AT 35.25 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
28-Sep-55	15:00	35.25	30.25	14.50		

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
 Dodge Street over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-3B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 70
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-2A
 LINE Baseline
 STA 90+90
 OFFSET 205.5 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,663.410 (E) 429,840.130 DATUM NAD27 SURF. ELEV. 650.08
 DATE START 29-SEP-1955 DATE FINISH 29-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0	J81	6	12	18	24	(0.00) Black Brown SILT , Some Sand And Organic, Trace Clay (M-LPL)	
		J82					(2.00) Brown SAND , Some Silt (M-NPL)	
		J83					(2.42) Mottled Yellow Brown Gray SILT AND SAND , Trace Clay (M-LPL)	
	5.0						(5.00) No Samples Taken Hole Progressed As A Cased Probe Hole	
35								
22								
40								
52								
55	10.0							
79								
84								
96								
97								
98	15.0							
103								
107								
127								
121								
107	20.0							
112								
100								
84								
90								
85	25.0							

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE PH-2A

SM 282 E 12/02

PSN 11444 BORNUM 70
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-2A
 LINE Baseline
 STA 90+90
 OFFSET 205.5 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,663.410 (E) 429,840.130 DATUM NAD27 SURF. ELEV. 650.08
 DATE START 29-SEP-1955 DATE FINISH 29-SEP-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in					MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18	24		
127	25.0							(25.00) No Samples Taken Hole Progressed As A Cased Probe Hole	
128									
127									
104									
72	30.0	R1						(29.42) Run #1 Drilled from 29'5" To 32'5" ROCK , Seamed And Broken REC. 33" 91.7%	

BOTTOM OF HOLE AT 32.42 ft

Augered ahead of casing by hand from 0 to 5 feet.
 Samples 81 through 83 obtained from auger.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
29-Sep-55	15:00	32.42	29.42	8.68		

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE PH-2A

SM 282 E 12/02

PSN 11444 BORNUM 67
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-5B
 LINE Baseline
 STA 90+52
 OFFSET 125 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1.058,602.070 (E) 429,905.080 DATUM NAD27 SURF. ELEV. 647.38
 DATE START 29-SEP-1955 DATE FINISH 30-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0		6	12	18	24	(0.00) Yellow Brown SILT AND SAND , Trace Clay (M-LPL)	
	5.0	J71						
36							(6.00) Red Gray SILT , Some Clay, Trace Sand And Gravel (M-PL)	
59								
66								
68								
77	10.0							
47		J72	2	4				
63								
75								
73								
77	15.0							
72		J73	2	4				
80								
82								
73								
81	20.0							
40		J74	1	2				
47								
50								
46								
42	25.0						(24.00) Gray SILT AND SAND , Some Limestone Fragments (W-NPL)	

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
 Dodge Street over Kensington Expressway
 SHEET 1 OF 2 HOLE DH-5B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 67
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-5B
 LINE Baseline
 STA 90+52
 OFFSET 125 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,602.070 (E) 429,905.080 DATUM NAD27 SURF. ELEV. 647.38
 DATE START 29-SEP-1955 DATE FINISH 30-SEP-1955 DEPTH TO WATER SEE NOTE
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
60	25.0	J75	2	2			(25.00) Gray SILT AND SAND , Some Limestone Fragments (W-NPL)	
62		R1					(26.83) Run #1 Drilled from 26'10" To 31'10" ROCK , Seamed And Broken REC. 56" 93.3%	
	30.0							

BOTTOM OF HOLE AT 31.83 ft

Augered ahead of casing by hand from 0 to 5 feet.
 Sample 71 obtained from auger.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
30-Sep-55	15:00	31.83	26.83	14.83		

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
 Dodge Street over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-5B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 71
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-3A
 LINE Baseline
 STA 90+14
 OFFSET 55 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,544.940 (E) 429,960.030 DATUM NAD27 SURF. ELEV. 646.79
 DATE START 22-SEP-1955 DATE FINISH 26-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
18	0.0		6	12	18	24	(0.00) Brown Black SILT , Some Sand And Organic, Trace Clay - (M-LPL) Topsoil (0.75) Yellow Brown SAND AND SILT , Trace Fine Gravel (M-NPL)	
124		J66						
78	5.0						(5.00) No Samples Taken Hole Progressed As A Cased Probe Hole	
89	10.0							
69	15.0							
55	20.0							
61	25.0							

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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 1 OF 2 HOLE PH-3A

SM 282 E 12/02

PSN 11444 BORNUM 71
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-3A
 LINE Baseline
 STA 90+14
 OFFSET 55 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 646.79
 ACTUAL COORDINATES (N) 1,058,544.940 (E) 429,960.030 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 22-SEP-1955 DATE FINISH 26-SEP-1955

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
42	25.0		6	12	18	24	(25.00) No Samples Taken Hole Progressed As A Cased Probe Hole	
16		R1					(27.42) Run #1 Drilled from 27'5" To 32'5" ROCK , Seamed And Broken REC. 60" 100%	
	30.0							

BOTTOM OF HOLE AT 32.42 ft

Sample 66 obtained from auger.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
26-Sep-55	15:00	32.42	27.42	9.50		

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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

SM 282 E 12/02

PSN 11444 BORNUM 68
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-6B
 LINE Baseline
 STA 89+52
 OFFSET 92.5 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,497.050 (E) 429,904.990 DATUM NAD27 SURF. ELEV. 645.9
 DATE START 29-SEP-1955 DATE FINISH 30-SEP-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
25	0.0						(0.00) Yellow Brown SILT AND SAND , Trace Clay (M-LPL)	
38								
58								
61								
55	5.0							
55		J76	9	14				
57								
57								
57								
57	10.0							
32		J77	5	10			(10.00) Gray Brown SILT , Some Sand, Gravel And Clay (M-PL)	
36								
39								
33								
47	15.0							
36		J78	3	4				
37								
40								
47								
49	20.0							
49		J79	3	5				
51								
80								
85								
75	25.0							

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
Dodge Street over Kensington Expressway
 SHEET 1 OF 2 HOLE DH-6B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 68
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-6B
 LINE Baseline
 STA 89+52
 OFFSET 92.5 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 645.9
 ACTUAL COORDINATES (N) 1,058,497.050 (E) 429,904.990 DATUM NAD27 DEPTH TO WATER SEE NOTE
 DATE START 29-SEP-1955 DATE FINISH 30-SEP-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
48	25.0	J80	2	7			(25.00) Gray Brown SILT , Some Sand, Gravel And Clay (M-PL)	
32		R1					(26.50) Run #1 Drilled from 26'6" To 31'6" ROCK , Seamed And Broken REC. 57" 95%	
	30.0							

BOTTOM OF HOLE AT 31.50 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
30-Sep-55	15:00	31.50	26.50	9.00		

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DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
UNOFFICIAL LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022610
Dodge Street over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-6B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 18
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W13
 LINE Baseline
 STA 88+93
 OFFSET 295 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,503.340 (E) 429,694.190 DATUM NAD27 SURF. ELEV. 652.66
 DATE START 14-NOV-1955 DATE FINISH 15-NOV-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
6	0.0						(0.00) Gray Brown SAND , Some Silt (M-NPL)	
9								
4								
6								
8	5.0							
10		J223	3	3			(6.00) Brown SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
56								
58								
53								
67	10.0							
110		J224	12	20				
98								
91								
82								
77	15.0							
53		J225	5	8			(15.00) Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
52								
57								
76								
90	20.0							
32		J226	5	7				
37								
44								
51								
55	25.0							

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE DH-W13

SM 282 E 12/02

PSN 11444 BORNUM 18
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-W13
 LINE Baseline
 STA 88+93
 OFFSET 295 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 652.66
 ACTUAL COORDINATES (N) 1,058,503.340 (E) 429,694.190 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 14-NOV-1955 DATE FINISH 15-NOV-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
26	25.0	J227	5	7			(25.00) Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
29								
35								
48								
53	30.0							
		J228	2	2				

BOTTOM OF HOLE AT 32.00 ft

Flint-Limestone rock, seamed and very hard, encountered at 32 feet.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
15-Nov-55	15:00	32.00	30.00	NONE		

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-W13

SM 282 E 12/02

PSN 8694 BORNUM 3
 REGION 5
 COUNTY ERIE
 PIN 5512.36.122
 PROJECT NY ROUTE 33, ELM/OAK TO ROUTE 198

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE FH-X-3
 LINE CL
 STA 72+29.00
 OFFSET 50 ft RIGHT
 SURF. ELEV. _____

SCALED COORDINATES (N) 1,058,396.830 (E) 429,789.170 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 15-SEP-1999 DATE FINISH 15-SEP-1999

CASING O. D. Power in I. D. Auger in WT OF HAMMER-CASING _____ lb HAMMER FALL-CASING _____ in
 SAMPLER O. D. 2 in I. D. 1 1/2 in WT OF HAMMER-SAMPLER 308 lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0		6	12	18	24		(0.00) Asphalt CONCRETE (0.30) Gray Sandy Angular GRAVEL
		J1	10	27	13		9%	(1.50) Gray Brown Fine Gravelly SAND ,Silty (M-NPL)
		J2	9	9	4		7%	(3.00) Gray Brown Fine Gravelly SAND ,Silty Clayey (M-LPL)
	5.0	J3	2	5	6		9%	
		J4	15	82			9%	
		R1						(7.00) Run #1 Drilled from 7'0" To 8'0" LIMESTONE REC. 10.8" 90% 3 AW DBL. TUBE SWIVEL Bit No NYS344 BOTTOM OF HOLE AT 8.00 ft

Progressed hole DRY to 2.134 meters.
 Station and offset from Record Plans.

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
15-Sep-99	10:45	8.00	7.00	1.00		NO
15-Sep-99	10:55	8.00	0.00	2.10		NO

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DRILL RIG OPERATOR R.N.SCHMITT
 SOIL & ROCK DESCRIPTION J.A.DENNEE
 REG GEOTECHNICAL ENGINEER PRELIMINARY LOG
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME B.I.N.

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 1 HOLE FH-X-3

SM 282 E 12/02

PSN 11444 BORNUM 53
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-3B
 LINE Baseline
 STA 81+61.5
 OFFSET 71 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 645.02
 ACTUAL COORDINATES (N) 1,058,115.990 (E) 429,517.380 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 10-OCT-1955 DATE FINISH 13-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
11	0.0						(0.00) Brown SILT , Some Fine Sand And Clay, Trace Gravel (M-PL)	
27								
48								
65								
72	5.0							
66		J120	12	13				
63								
64								
78								
110	10.0							
67		J121	7	15				
95								
117								
172								
189	15.0							
72		J122	7	9			(15.00) Gray SILT , Some Clay, Trace Sand And Gravel (M-PL)	
83								
92								
124								
150	20.0							
77		J123	2	4				
67								
92								
70								
90	25.0							

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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
 SHEET 1 OF 2 HOLE DH-3B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 53
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-3B
 LINE Baseline
 STA 81+61.5
 OFFSET 71 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 645.02
 ACTUAL COORDINATES (N) 1,058,115.990 (E) 429,517.380 DATUM NAD27 DEPTH TO WATER SEE NOTE
 DATE START 10-OCT-1955 DATE FINISH 13-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
50	25.0	J124 R1	10				(25.00) Gray SILT, Some Clay, Trace Sand And Gravel (M-PL) (25.50) Run #1 Drilled from 25'6" To 30'6" ROCK, Seamed And Broken REC. 24" 40%	
	30.0							

BOTTOM OF HOLE AT 30.50 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
13-Oct-55	15:00	30.50	25.50	24.00		

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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
 SHEET 2 OF 2 HOLE DH-3B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 60
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-1A
 LINE Baseline
 STA 82+00
 OFFSET 82 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,126.240 (E) 429,556.420 DATUM NAD27 SURF. ELEV. 643.96
 DATE START 13-OCT-1955 DATE FINISH 18-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
3	0.0		6	12	18	24	(0.00) No Samples Taken 2.5 Inch Cased Probe Hole	
7								
22								
35								
92	5.0							
106								
118								
118								
155								
178	10.0							
182								
218								
234								
280								
282	15.0							
400								
370								
192								
190								
245	20.0							
181								
170								
127								
116								
100	25.0	R1					(24.50) Run #1 Drilled from 24'6" To 26'6" ROCK , Seamed, Broken	

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

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE PH-1A

SM 282 E 12/02

PSN 11444 BORNUM 60
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-1A
 LINE Baseline
 STA 82+00
 OFFSET 82 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,126.240 (E) 429,556.420 DATUM NAD27 SURF. ELEV. 643.96
 DATE START 13-OCT-1955 DATE FINISH 18-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24		And Hard REC. 24" 100%

BOTTOM OF HOLE AT 26.50 ft

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

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

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE PH-1A

SM 282 E 12/02

PSN 11444 BORNUM 55
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-5B
 LINE Baseline
 STA 82+45.5
 OFFSET 65 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,108.360 (E) 429,601.340 DATUM NAD27 SURF. ELEV. 644.32
 DATE START 06-OCT-1955 DATE FINISH 10-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
5	0.0						(0.00) Brown SILT , Some Fine Sand And Clay (M-PL)	
27								
44								
53								
43	5.0							
31		J125	5	5				
28								
68								
90							(8.00) Red Gray SILT , Some Clay, Trace Sand And Gravel (M-PL)	
116	10.0							
62		J126	12	18				
112								
88								
89								
98	15.0						(14.00) Gray Brown SILT , Some Fine Sand, Trace Clay And Fine Gravel (M-LPL)	
80		J127	1	4				
112								
147								
175								
180	20.0							
100		J128	3	3				
100								
90							(22.00) Gray SILT , Some Sand, Gravel And Clay (M-PL)	
84								
65	25.0							

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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
 SHEET 1 OF 2 HOLE DH-5B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 55
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-5B
 LINE Baseline
 STA 82+45.5
 OFFSET 65 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 644.32
 ACTUAL COORDINATES (N) 1,058,108.360 (E) 429,601.340 DATUM NAD27 DEPTH TO WATER SEE NOTE
 DATE START 06-OCT-1955 DATE FINISH 10-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
118	25.0	J129	20	26			(25.00) Gray SILT , Some Sand, Gravel And Clay (M-PL)	
77		R1					(26.50) Run #1 Drilled from 26'6" To 30'6" ROCK , Seamed And Broken REC. 46" 95.8%	
	30.0							

BOTTOM OF HOLE AT 30.50 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
10-Oct-55	15:00	30.50	26.50	10.00		

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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
 SHEET 2 OF 2 HOLE DH-5B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 62
 REGION 5
 COUNTY ERIE
 PIN _____
 PROJECT KENSINGTON EXPRESSWAY, SECTION I

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-3A
 LINE Baseline
 STA 83+24
 OFFSET 48 ft LEFT
 SURF. ELEV. 642.56

UNOFFICIAL LOG

ACTUAL COORDINATES (N) 1,058,089.850 (E) 429,679.250 DATUM NAD27 DEPTH TO WATER SEE NOTE
 DATE START 05-OCT-1955 DATE FINISH 05-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0	J113					(0.00) Brown Black SILT , Some Organic Topsoil (M-NPL)	
		J114					(0.42) Yellow Brown SILT , Some Sand, Trace Clay (M-LPL)	
	5.0						(5.00) No Samples Taken Hole Progressed As A Cased Probe Hole	
110								
94								
80								
80								
85	10.0							
194								
165								
134								
120								
117	15.0							
95								
146								
150								
152								
126	20.0							
75								
60								
110								
214								
205	25.0							

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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 1 OF 2 HOLE PH-3A

SM 282 E 12/02

PSN 11444 BORNUM 62
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE PH-3A
 LINE Baseline
 STA 83+24
 OFFSET 48 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,089.850 (E) 429,679.250 DATUM NAD27 SURF. ELEV. 642.56
 DATE START 05-OCT-1955 DATE FINISH 05-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0	R1	6	12	18	24	(25.00) Run #1 Drilled from 25'0" To 26'6" ROCK , Seamed, Broken And Fractured REC. 16" 88.9%	

BOTTOM OF HOLE 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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 _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. _____

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE PH-3A

SM 282 E 12/02

PSN 11444 BORNUM 59
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-9B
 LINE Baseline
 STA 84+23
 OFFSET 48 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,087.930 (E) 429,778.250 DATUM NAD27 SURF. ELEV. 641.87
 DATE START 03-OCT-1955 DATE FINISH 04-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
20	0.0						(0.00) Red Brown SILT , Trace Sand, Clay And Fine Gravel (M-LPL)	
56								
64								
70								
54	5.0							
11		J105	7	13				
58								
100								
86								
78	10.0						(9.00) Yellow Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
60		J106	14	14				
40								
41								
38								
30	15.0						(14.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
33		J107	2	2				
21								
27								
28								
27	20.0							
23		J108	2	3				
25								
155								
255								
209	25.0	R1					(24.33) Run #1 Drilled from 24'4" To 29'4" ROCK , Seamed, Broken	

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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
 SHEET 1 OF 2 HOLE DH-9B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 59
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-9B
 LINE Baseline
 STA 84+23
 OFFSET 48 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 641.87
 ACTUAL COORDINATES (N) 1,058,087.930 (E) 429,778.250 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 03-OCT-1955 DATE FINISH 04-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24		And Hard REC. 56" 93.3%

BOTTOM OF HOLE AT 29.33 ft

DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
04-Oct-55	15:00	29.33	24.33	8.25		

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
 SHEET 2 OF 2 HOLE DH-9B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 58
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-8B
 LINE Baseline
 STA 83+74.5
 OFFSET 3 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1.058,043.880 (E) 429,729.030 DATUM NAD27 SURF. ELEV. 641.36
 DATE START 05-OCT-1955 DATE FINISH 05-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
20	0.0		6	12	18	24	(0.00) Red Brown SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
42								
51								
55								
54	5.0							
48		J109	9	14				
56								
57								
58								
72	10.0							
41		J110	6	7			(10.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
57								
66								
63								
60	15.0							
66		J111	5	6			(15.00) Gray SILT , Some Sand, Fine Gravel And Clay (M-PL)	
67								
37								
22								
26	20.0							
45		J112	2	2				
49								
38		R1					(22.42) Run #1 Drilled from 22'5" To 27'5" ROCK , Seamed And Broken REC. 52" 86.7%	
	25.0							

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
 SHEET 1 OF 2 HOLE DH-8B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 58
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-8B
 LINE Baseline
 STA 83+74.5
 OFFSET 3 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 641.36
 ACTUAL COORDINATES (N) 1,058,043.880 (E) 429,729.030 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 05-OCT-1955 DATE FINISH 05-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0							

BOTTOM OF HOLE AT 27.42 ft

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

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 _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022609
 _____ Best Street over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-8B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 56
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-6B
 LINE Baseline
 STA 83+26.5
 OFFSET 5 ft LEFT

PROJECT KENSINGTON EXPRESSWAY, SECTION I

SURF. ELEV. 641.68

ACTUAL COORDINATES (N) 1.058,046.810 (E) 429,681.020 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 05-OCT-1955 DATE FINISH 06-OCT-1955

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

UNOFFICIAL LOG

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
25	0.0						(0.00) Yellow Brown SILT , Some Sand, Trace Clay (M-LPL)	
117								
79								
56								
50	5.0							
64		J115	9	13				
81								
70								
97							(8.00) Red Brown SILT , Some Sand And Clay, Trace Fine Gravel (M-PL)	
97	10.0							
73		J116	6	12				
75								
67								
55							(13.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
53	15.0							
54		J117	1	2				
43								
27							(17.00) Gray SILT , Some Sand, Gravel And Clay (M-PL)	
29								
29	20.0							
36		J118	6	4				
40								
196								
192								
73	25.0	R1					(24.50) Run #1 Drilled from 24'6" To 28'4" ROCK , Seamed And	

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
 SHEET 1 OF 2 HOLE DH-6B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 56
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-6B
 LINE Baseline
 STA 83+26.5
 OFFSET 5 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,046.810 (E) 429,681.020 DATUM NAD27 SURF. ELEV. 641.68
 DATE START 05-OCT-1955 DATE FINISH 06-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
	25.0						Broken REC. 46" 100%	

BOTTOM OF HOLE AT 28.33 ft

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

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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
 SHEET 2 OF 2 HOLE DH-6B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 57
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-7B
 LINE Baseline
 STA 83+46.5
 OFFSET 98 ft RIGHT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1.057,943.440 (E) 429,699.100 DATUM NAD27 SURF. ELEV. 642.11
 DATE START 03-OCT-1955 DATE FINISH 04-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24		
3	0.0						(0.00) Yellow Brown SILT , Some Sand (M-NPL)	
5								
6								
6								
5	5.0							
13		J101	1	6			(6.00) Red Gray SILT , Some Clay, Trace Sand And Fine Gravel (M-PL)	
6								
43								
45								
42	10.0							
41		J102	4	10				
52								
67								
69								
67	15.0							
49		J103	2	3				
45								
37								
40								
41	20.0							
26		J104	5	5			(20.00) Gray SILT , Some Sand And Fine Gravel (M-NPL)	
33								
87								
70		R1					(23.42) Run #1 Drilled from 23'5" To 25'3" ROCK , Seamed, Broken And Hard REC. 22" 100%	
	25.0							

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
 SHEET 1 OF 2 HOLE DH-7B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 57
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-7B
 LINE Baseline
 STA 83+46.5
 OFFSET 98 ft RIGHT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,057,943.440 (E) 429,699.100 DATUM NAD27 SURF. ELEV. 642.11
 DATE START 03-OCT-1955 DATE FINISH 04-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0	R2	6	12	18	24	(25.25) Run #2 Drilled from 25'3" To 26'3" ROCK , Seamed, Broken And Hard	
		R3					(26.25) REC. 12" 100% Run #3 Drilled from 26'3" To 28'1" ROCK , Seamed, Broken And Hard	

BOTTOM OF HOLE AT 28.08 ft

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

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 _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022609
 Best Street over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-7B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 61
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-2A
 LINE Baseline
 STA 82+55
 OFFSET 33 ft RIGHT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,010.200 (E) 429,609.050 DATUM NAD27 SURF. ELEV. 641.72
 DATE START 07-OCT-1955 DATE FINISH 10-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0	J119	6	12	18	24	(0.00) Red Brown SILT , Some Clay And Sand, Trace Fine Gravel (M-PL)	
	5.0						(5.00) No Samples Taken Hole Progressed As A Cased Probe Hole	
50								
58								
55								
56								
47	10.0							
52								
93								
75								
59								
70	15.0							
73								
93								
97								
71								
67	20.0							
71								
69								
30		R1					(22.25) Run #1 Drilled from 22'3" To 26'3" ROCK , Seamed And Broken REC. 48" 100%	
	25.0							

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. _____

CONTRACT _____ CONTRACTOR _____

SHEET 1 OF 2 HOLE DH-2A

SM 282 E 12/02

PSN 11444 BORNUM 61
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-2A
 LINE Baseline
 STA 82+55
 OFFSET 33 ft RIGHT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 641.72
 ACTUAL COORDINATES (N) 1,058,010.200 (E) 429,609.050 DATUM NAD27 DEPTH TO WATER SEE NOTE
 DATE START 07-OCT-1955 DATE FINISH 10-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. _____ in I. D. _____ in WT OF HAMMER-SAMPLER _____ lb HAMMER FALL-SAMPLER _____ in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24		

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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
10-Oct-55	15:00	26.25	22.25	22.00		

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. _____

CONTRACT _____ CONTRACTOR _____

SHEET 2 OF 2 HOLE DH-2A

SM 282 E 12/02

PSN 11444 BORNUM 52
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-2B
 LINE Baseline
 STA 81+80
 OFFSET 6 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1.058,050.640 (E) 429,535.020 DATUM NAD27 SURF. ELEV. 642.77
 DATE START 10-OCT-1955 DATE FINISH 11-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	0.0		6	12	18	24	(0.00) Brown SILT , Some Sand, Trace Clay And Gravel (M-LPL)	
	5.0	J130						
27								
28								
39								
42								
55	10.0						(9.00) Gray Brown SILT , Some Clay, Trace Sand And Gravel (M-PL)	
43		J131	2	4				
47								
43								
47								
51	15.0							
53		J132	2	3				
81							(17.00) Red Gray SILT , Some Clay, Trace Sand And Gravel (M-PL)	
33								
32								
36	20.0							
50		J133	1	2				
46								
72								
84								
	25.0	R1					(23.92) Run #1 Drilled from 23'11" To 27'7" ROCK , Seamed, Broken And Hard	

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
 SHEET 1 OF 2 HOLE DH-2B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 52
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-2B
 LINE Baseline
 STA 81+80
 OFFSET 6 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I
 ACTUAL COORDINATES (N) 1,058,050.640 (E) 429,535.020 DATUM NAD27 SURF. ELEV. 642.77
 DATE START 10-OCT-1955 DATE FINISH 11-OCT-1955 DEPTH TO WATER SEE NOTE

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24		REC. 21" 47.8%

BOTTOM OF HOLE 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 ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
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 _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022609
 Best Street over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-2B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 51
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-1B
 LINE Baseline
 STA 81+10
 OFFSET 4 ft LEFT

PROJECT KENSINGTON EXPRESSWAY, SECTION ISURF. ELEV. 643.61ACTUAL COORDINATES (N) 1,058,050.000 (E) 429,465.020 DATUM NAD27 DEPTH TO WATER SEE NOTEDATE START 11-OCT-1955 DATE FINISH 11-OCT-1955

CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
12	0.0		6	12	18	24	(0.00) Brown SILT , Some Sand, Trace Clay And Fine Gravel (M-LPL)	
30								
51								
40								
41	5.0							
55		J134	5	16				
71								
129								
108								
92	10.0							
54		J135	5	7				
81							(12.00) Gray Brown SILT , Some Clay, Trace Sand And Gravel (M-PL)	
66								
68								
61	15.0							
38		J136	2	2				
52								
50								
49								
45	20.0							
51		J137	1	2			(20.00) Gray SILT , Some Clay, Trace Sand And Gravel (M-PL)	
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.

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
 SHEET 1 OF 2 HOLE DH-1B

CONTRACT _____ CONTRACTOR _____

SM 282 E 12/02

PSN 11444 BORNUM 51
 REGION 5
 COUNTY ERIE
 PIN _____

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL ENGINEERING BUREAU
 SUBSURFACE EXPLORATION LOG



HOLE DH-1B
 LINE Baseline
 STA 81+10
 OFFSET 4 ft LEFT

UNOFFICIAL LOG

PROJECT KENSINGTON EXPRESSWAY, SECTION I SURF. ELEV. 643.61
 ACTUAL COORDINATES (N) 1,058,050.000 (E) 429,465.020 DATUM NAD27 DEPTH TO WATER SEE NOTE

DATE START 11-OCT-1955 DATE FINISH 11-OCT-1955
 CASING O. D. 2 7/8 in I. D. 2 3/8 in WT OF HAMMER-CASING 300 lb HAMMER FALL-CASING 18 in
 SAMPLER O. D. 2 in I. D. 1 3/8 in WT OF HAMMER-SAMPLER 300 lb HAMMER FALL-SAMPLER 18 in

CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER in				MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK
			0	6	12	18		
	25.0		6	12	18	24		And Hard REC. 46" 76.7%

BOTTOM OF HOLE AT 29.25 ft

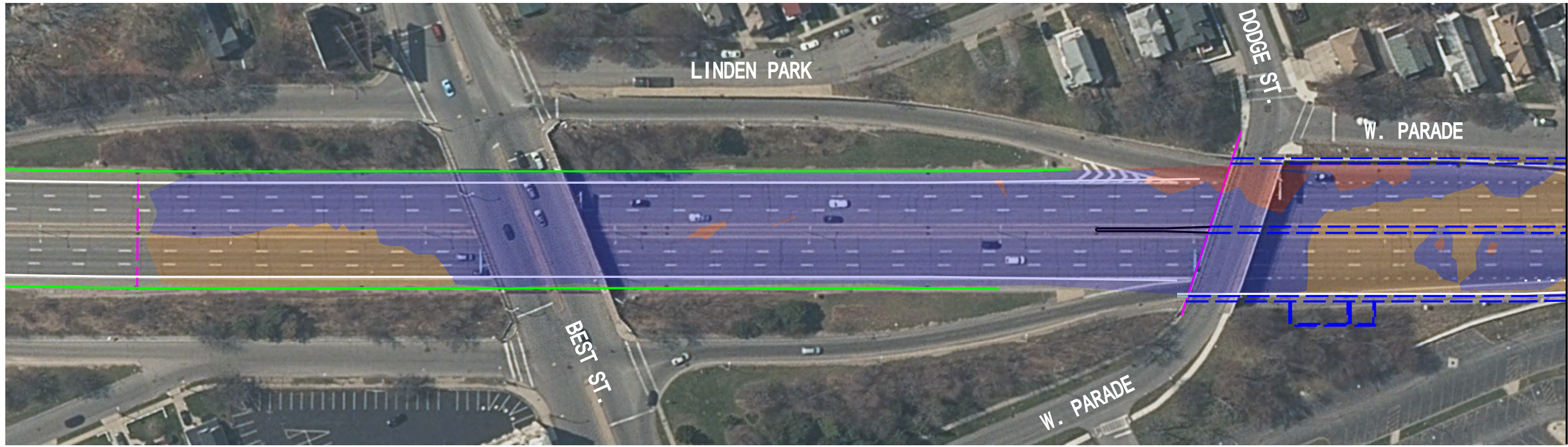
DATE	TIME	DEPTH ft			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
11-Oct-55	15:00	29.25	24.25	22.00		

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.

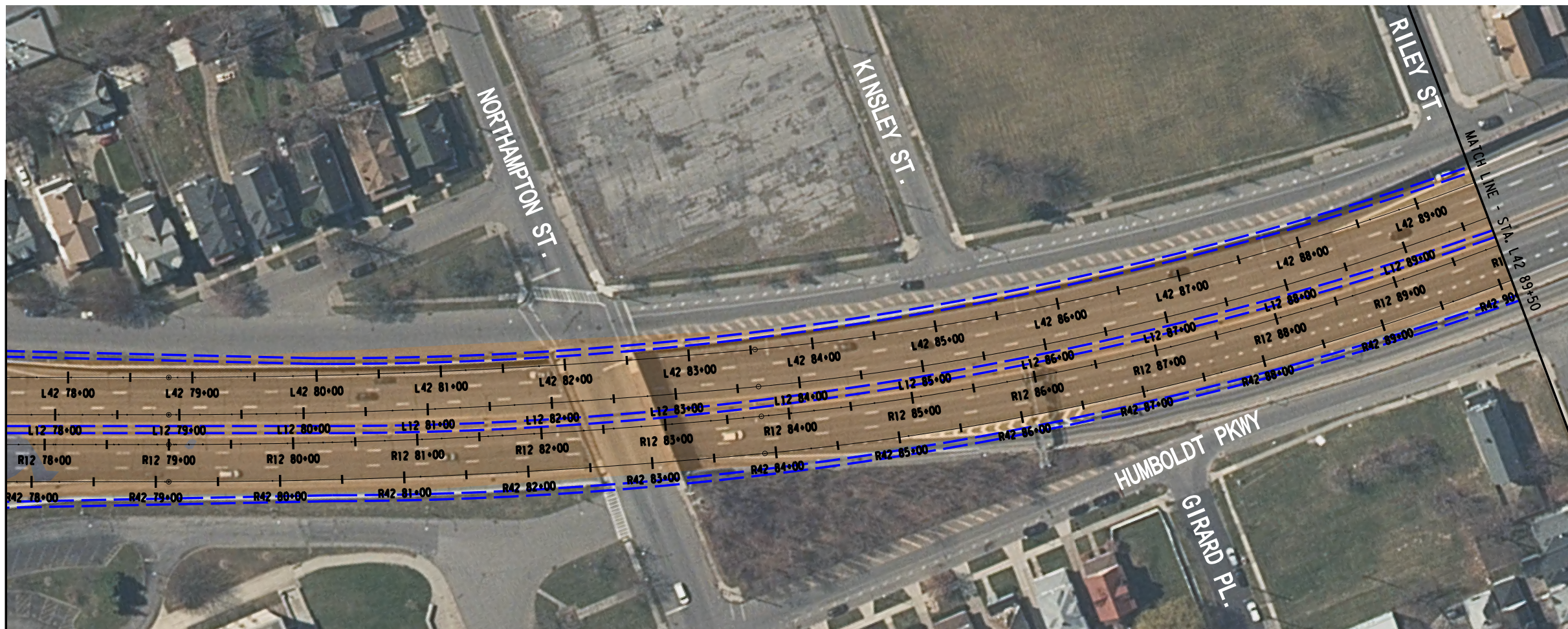
DRILL RIG OPERATOR _____
 SOIL & ROCK DESCRIPTION R. Zemla
 REG GEOTECHNICAL ENGINEER _____
 DATE APPROVED _____
 RESIDENT ENGINEER _____
 STRUCTURE NAME _____ B.I.N. 1022609
 _____ Best Street over Kensington Expressway
 SHEET 2 OF 2 HOLE DH-1B

CONTRACT _____ CONTRACTOR _____

GPR ROCK PLAN AND PROFILE



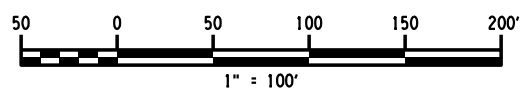
MATCH LINE - STA. L42 77+50



MATCH LINE - STA. L42 77+50

MATCH LINE - STA. L42 89+50

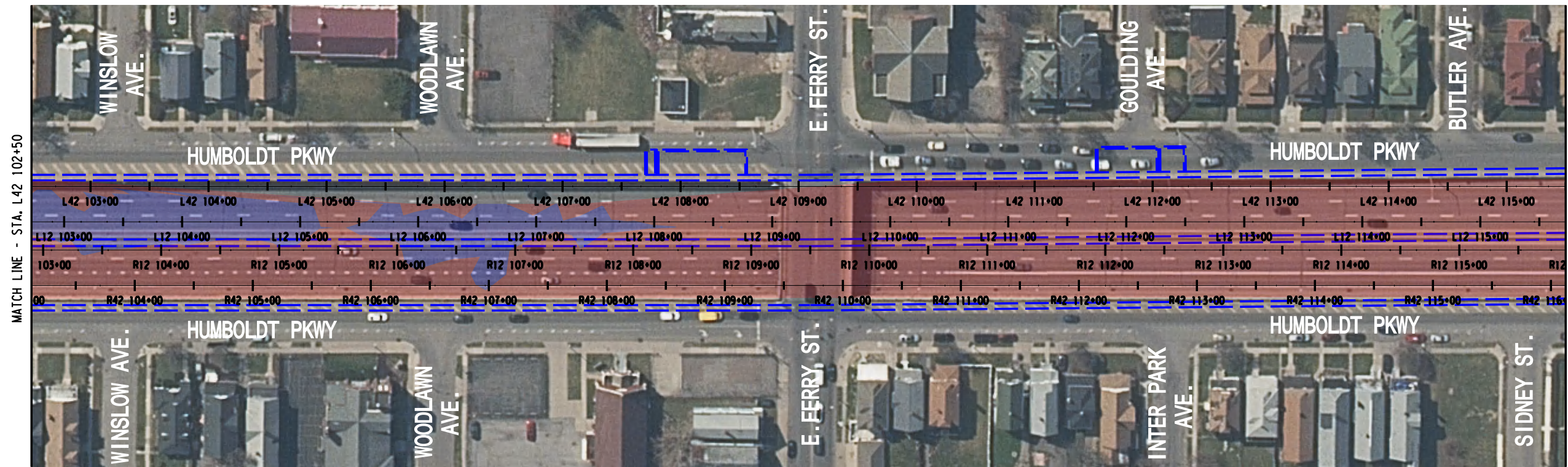
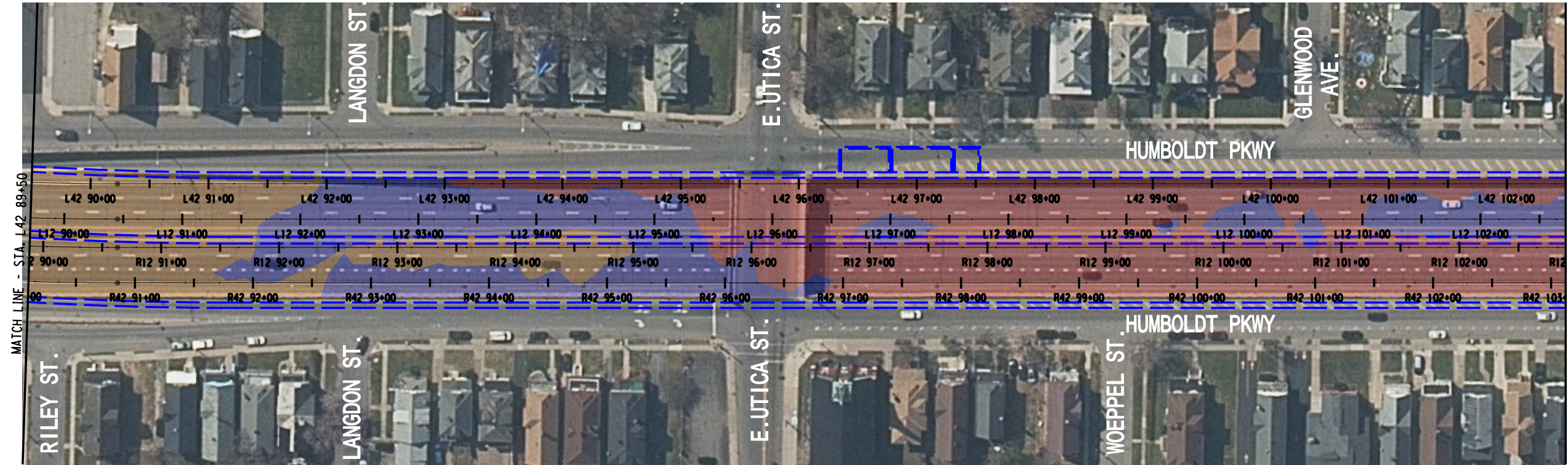
- LEGEND**
- CONVENTIONAL EXCAVATION - NO ROCK EXCAVATION EXPECTED
 - ROCK EXCAVATION LESS THAN 5 FT.
 - ROCK EXCAVATION IN EXCESS OF 5 FT.



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	
COUNTY:	REGION:

	PIN	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
ROCK SURFACE PLAN					DRAWING NO. RPLN-1
					SHEET NO. 1
LaBella Powered by partnership.			Department of Transportation		

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.

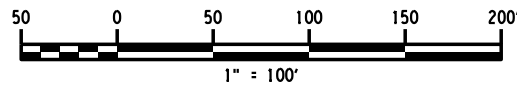


MATCH LINE - STA. L42 102+50

MATCH LINE - STA. L42 115+50

LEGEND

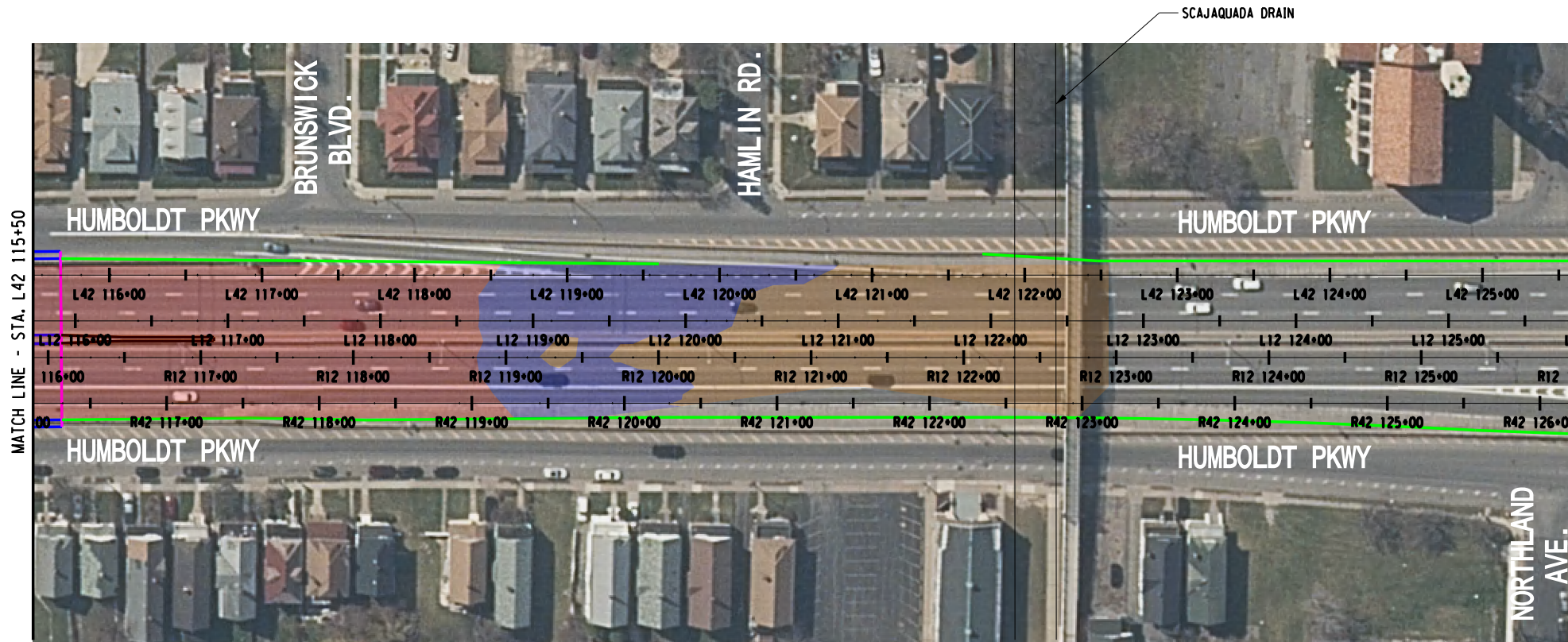
- CONVENTIONAL EXCAVATION - NO ROCK EXCAVATION EXPECTED
- ROCK EXCAVATION LESS THAN 5 FT.
- ROCK EXCAVATION IN EXCESS OF 5 FT.



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:		PIN	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
					ROCK SURFACE PLAN	DRAWING NO. RPLN-2
						SHEET NO. 2

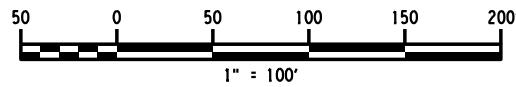
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, 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.



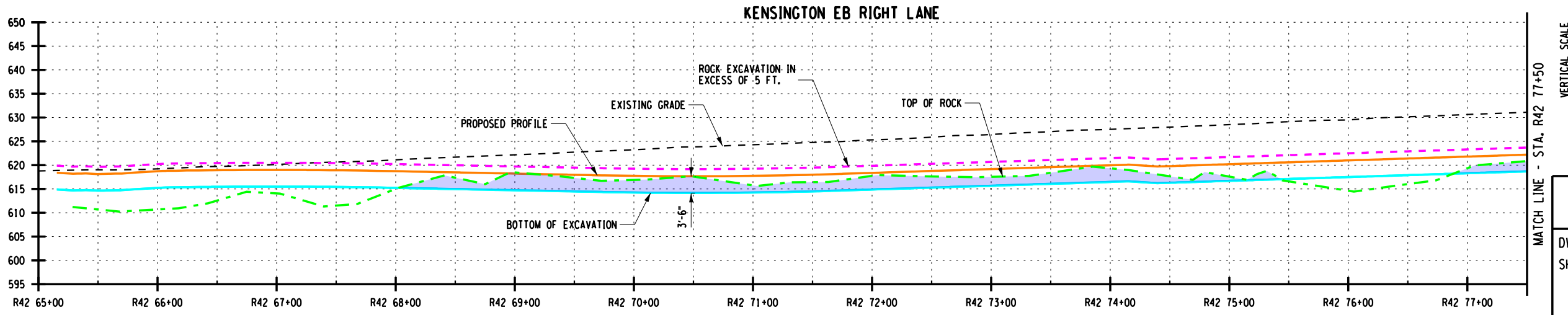
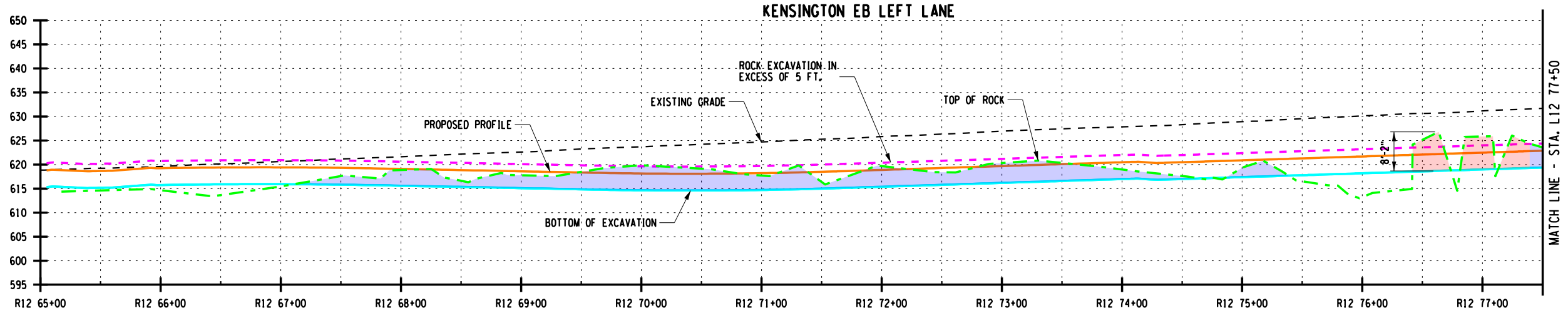
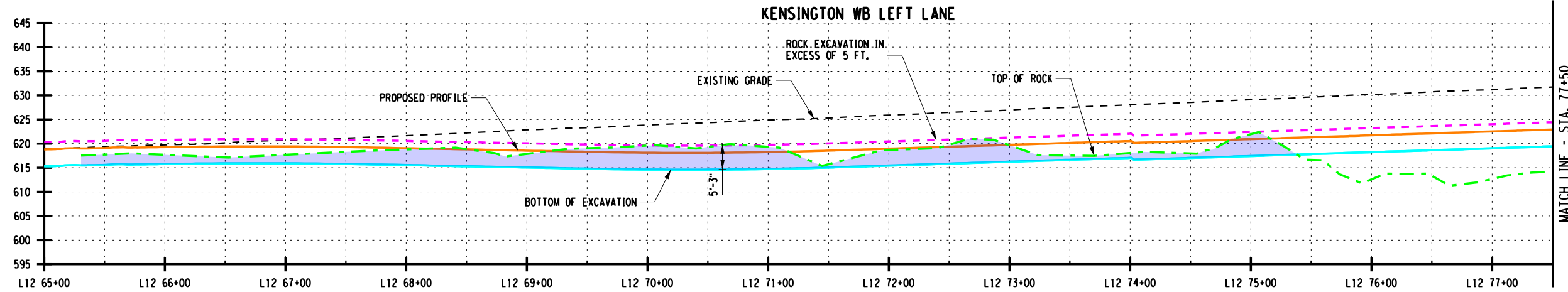
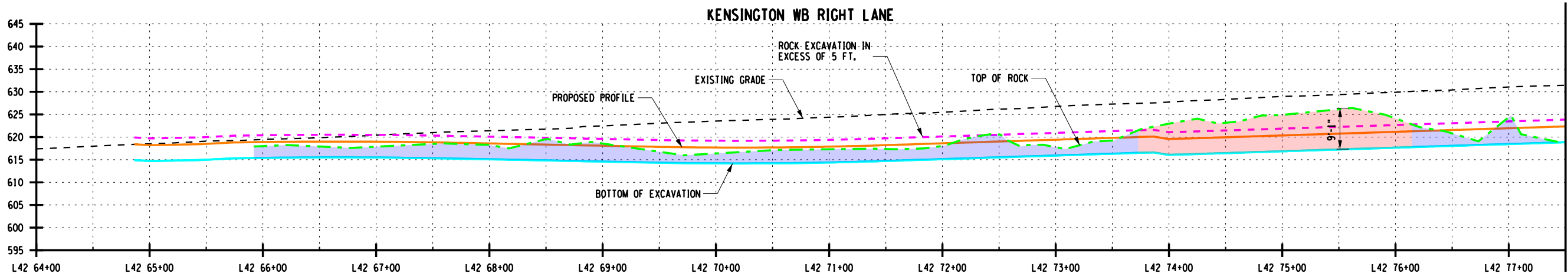


LEGEND

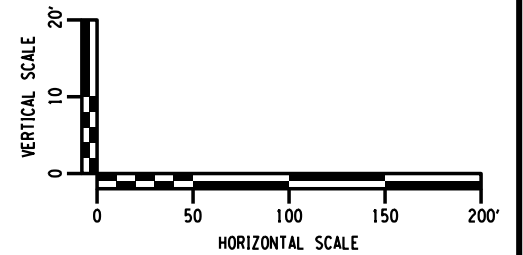
	CONVENTIONAL EXCAVATION - NO ROCK EXCAVATION EXPECTED
	ROCK EXCAVATION LESS THAN 5 FT.
	ROCK EXCAVATION IN EXCESS OF 5 FT.



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: _____ _____ _____ COUNTY: _____ REGION: _____	PIN _____ _____	BRIDGES _____ _____	CULVERTS _____ _____	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED ROCK SURFACE PLAN	CONTRACT NUMBER _____ DRAWING NO. RPLN-3 SHEET NO. 3
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.					



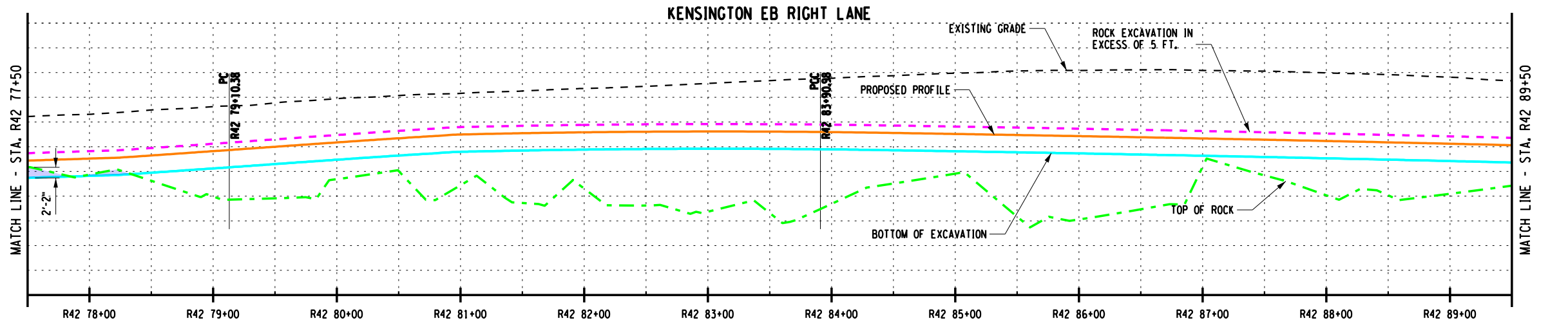
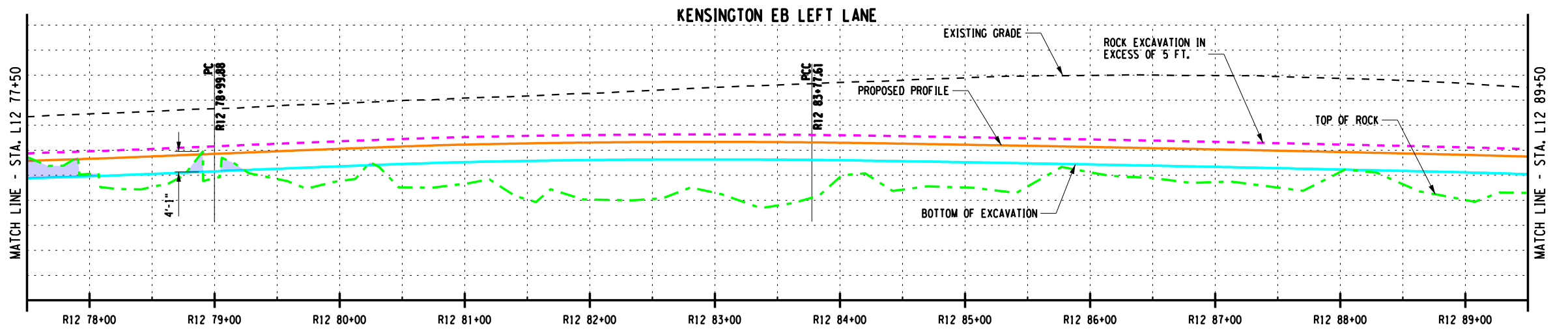
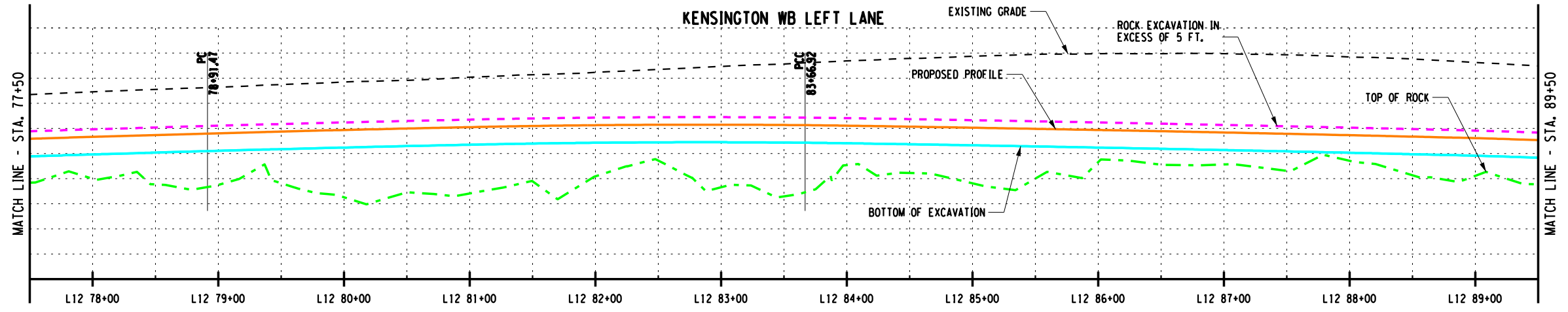
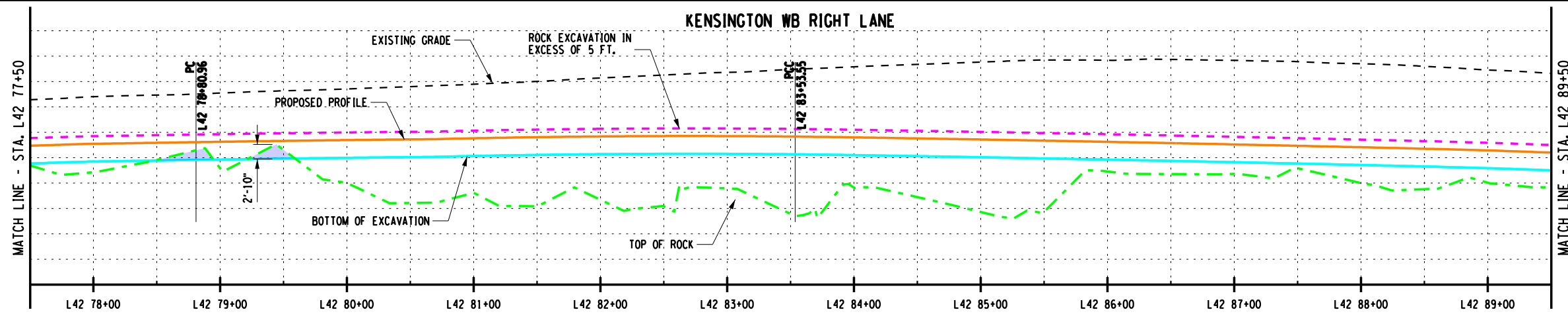
- LEGEND**
- EXISTING GRADE
 - TOP OF ROAD SURFACE
 - ROCK SURFACE BASED ON GPR AND EXISTING SOIL BORING INFO & RETAINING WALL INFO
 - BOTTOM OF EXCAVATION
 - ROCK EXCAVATION IN EXCESS OF 5 FT.
 - █ ROCK EXCAVATION LESS THAN 5 FT.
 - █ ROCK EXCAVATION IN EXCESS OF 5 FT.



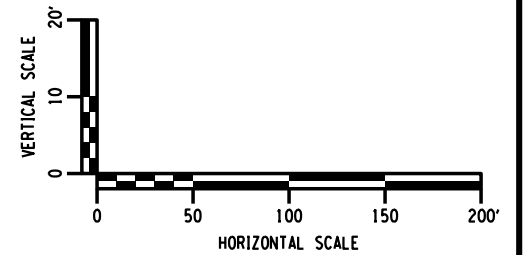
ROCK SURFACE PROFILE

DWG. NO. RPRO-1
SHEET NO. 4

Department of Transportation
LaBella
 Powered by partnership.



- LEGEND**
- - - EXISTING GRADE
 - TOP OF ROAD SURFACE
 - - - ROCK SURFACE BASED ON GPR AND EXISTING SOIL BORING INFO & RETAINING WALL INFO
 - BOTTOM OF EXCAVATION
 - - - ROCK EXCAVATION IN EXCESS OF 5 FT.
 - █ ROCK EXCAVATION LESS THAN 5 FT.
 - █ ROCK EXCAVATION IN EXCESS OF 5 FT.

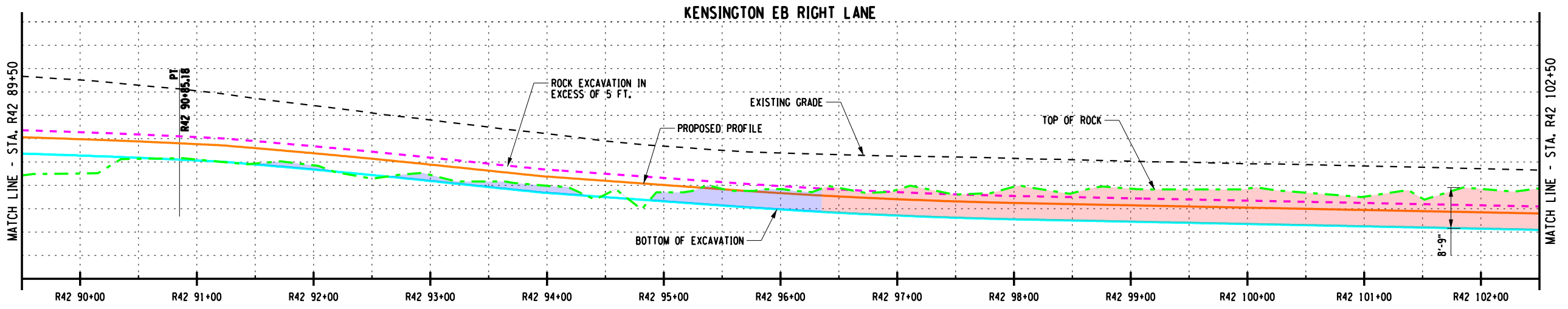
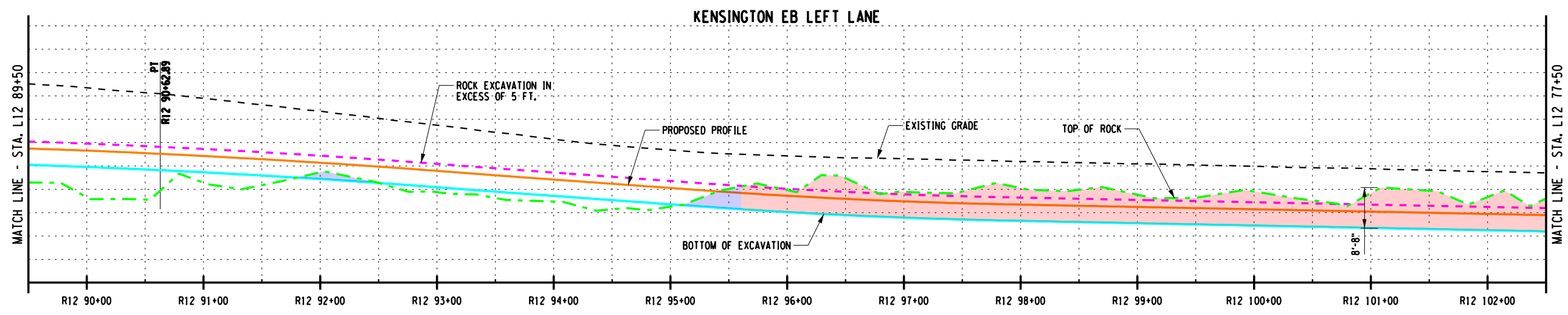
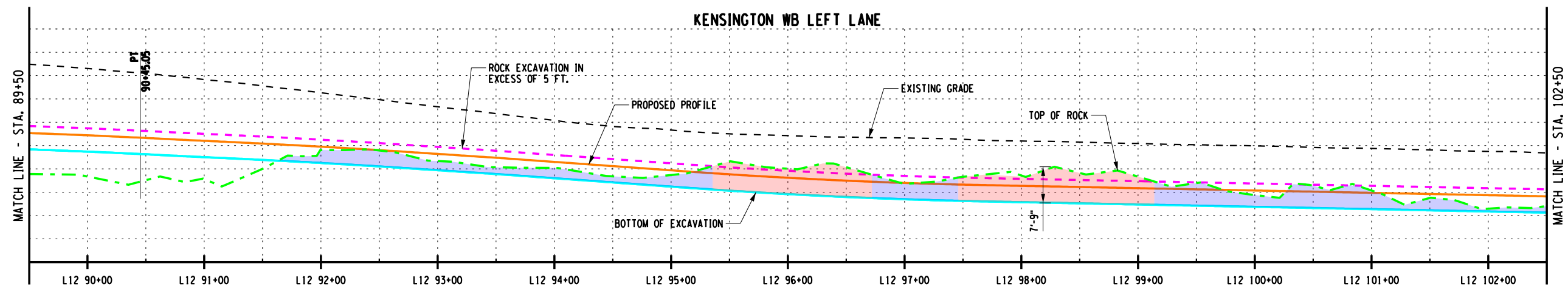
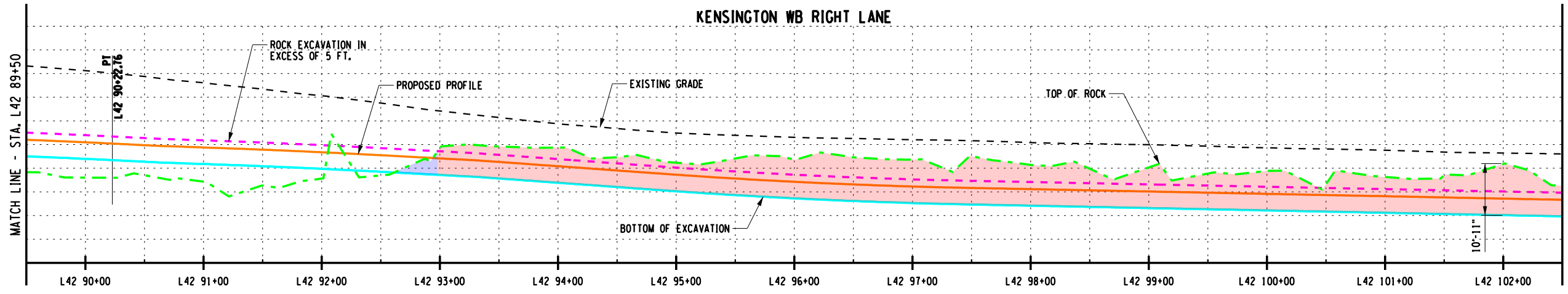


ROCK SURFACE PROFILE

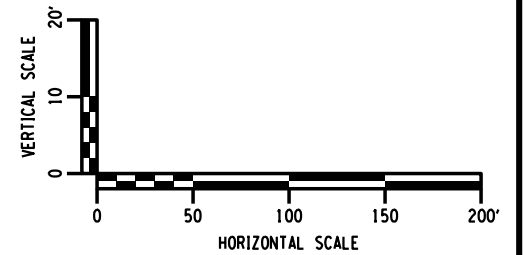
DWG. NO. RPRO-2
SHEET NO. 5

NEW YORK STATE OF OPPORTUNITY
Department of Transportation

LaBella
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- LEGEND**
- - - EXISTING GRADE
 - TOP OF ROAD SURFACE
 - - - ROCK SURFACE BASED ON GPR AND EXISTING SOIL BORING INFO & RETAINING WALL INFO
 - BOTTOM OF EXCAVATION
 - - - ROCK EXCAVATION IN EXCESS OF 5 FT.
 - ROCK EXCAVATION LESS THAN 5 FT.
 - ROCK EXCAVATION IN EXCESS OF 5 FT.



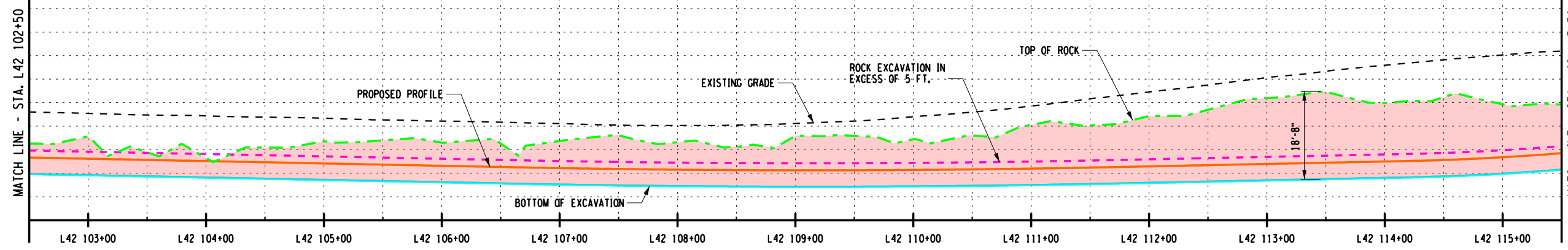
ROCK SURFACE PROFILE

DWG. NO. RPRO-3
SHEET NO. 6

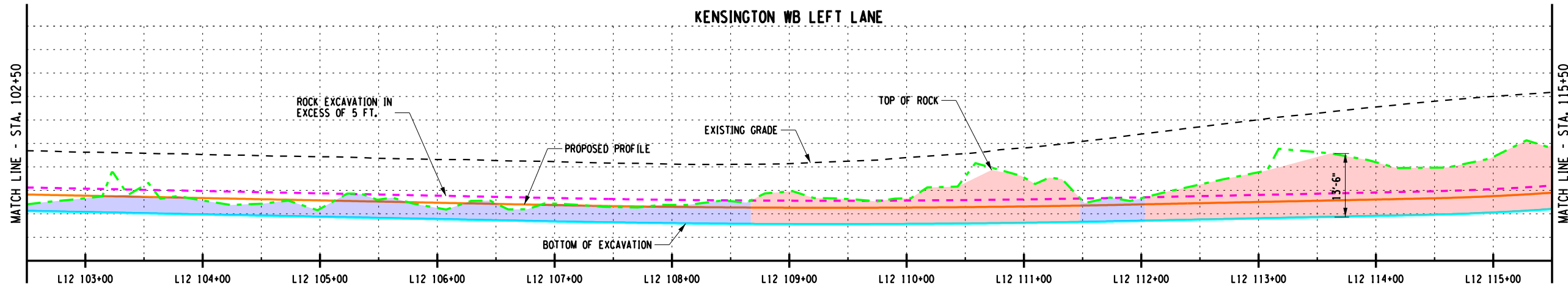
NEW YORK STATE OF OPPORTUNITY
Department of Transportation

LaBella
Powered by partnership.

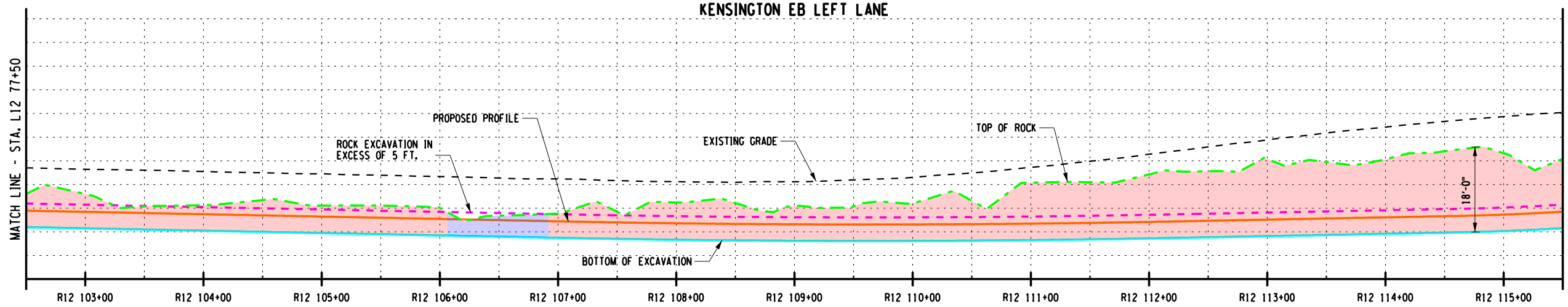
KENSINGTON WB RIGHT LANE



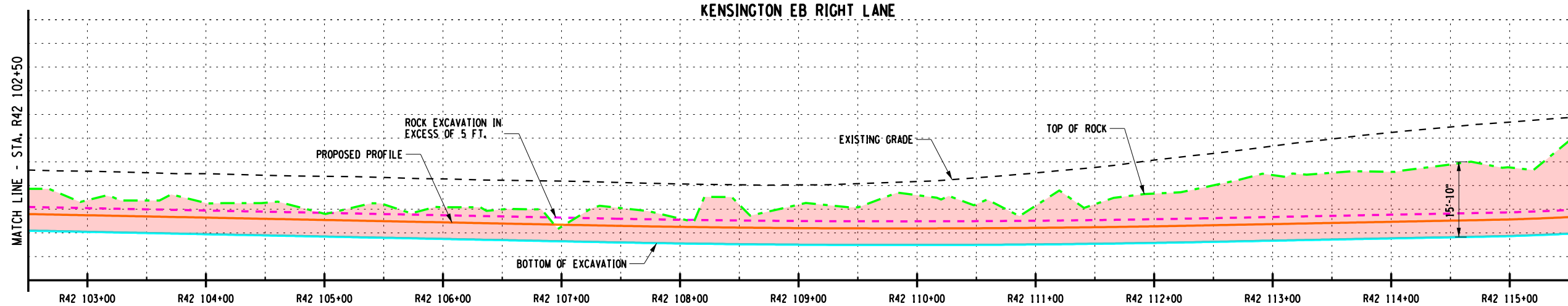
KENSINGTON WB LEFT LANE



KENSINGTON EB LEFT LANE

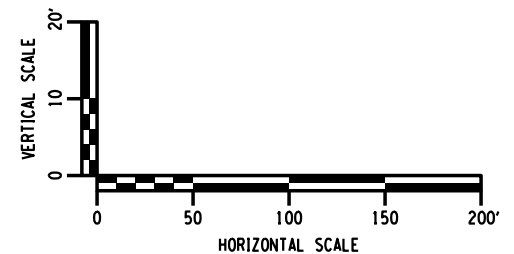


KENSINGTON EB RIGHT LANE



LEGEND

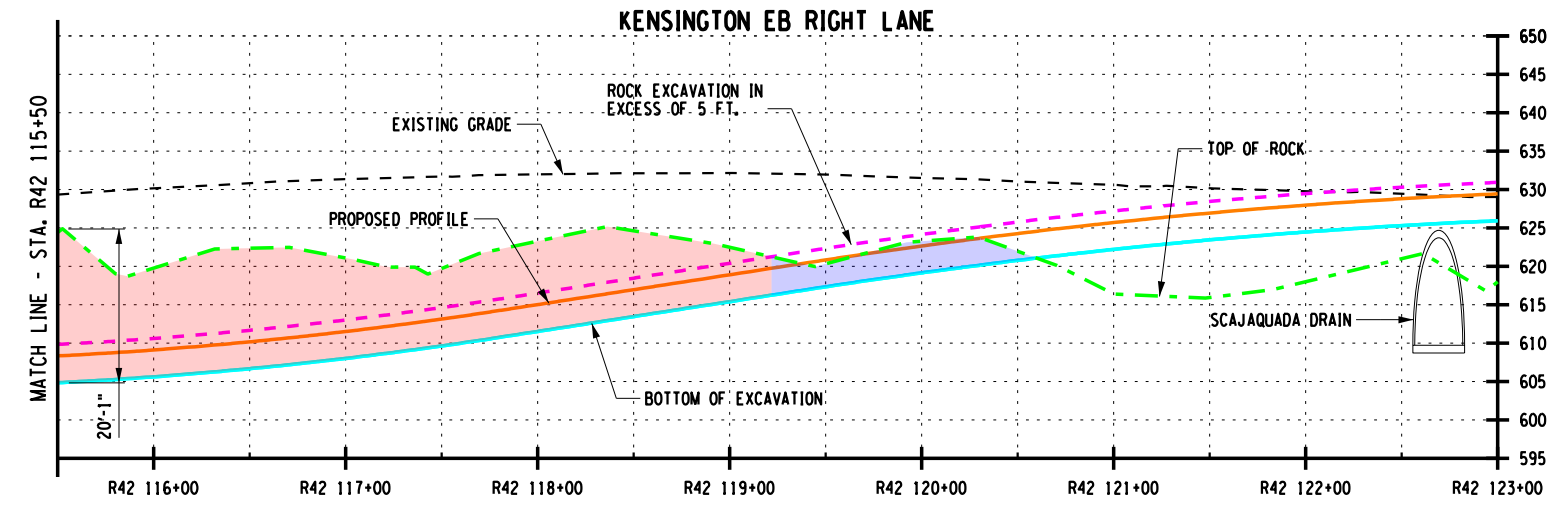
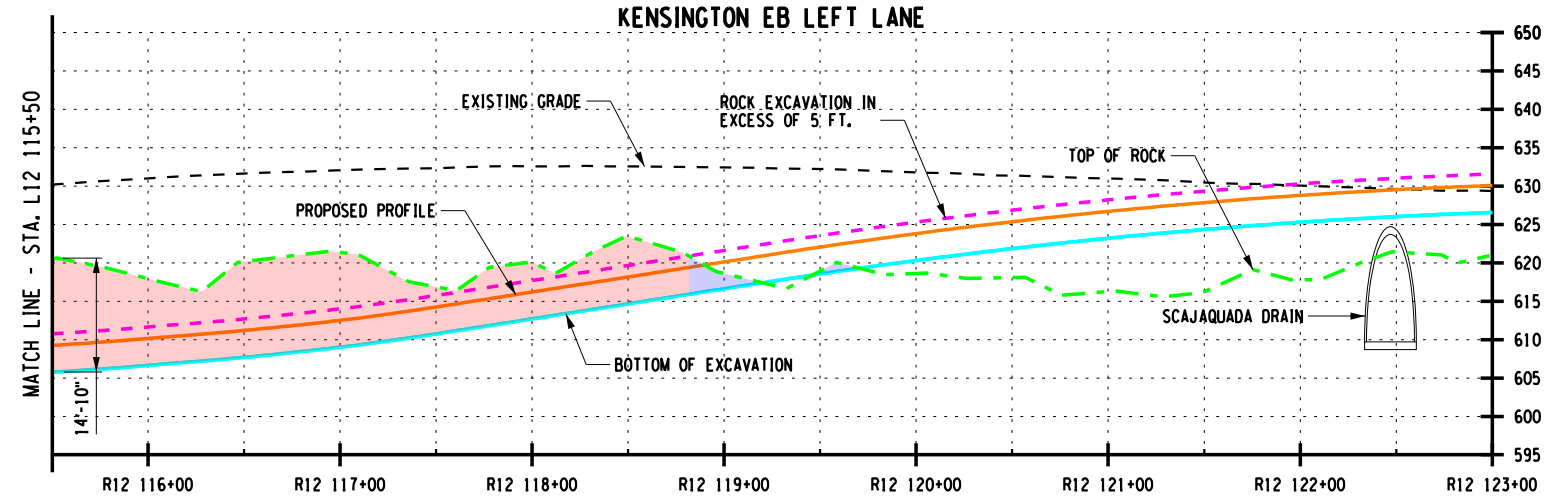
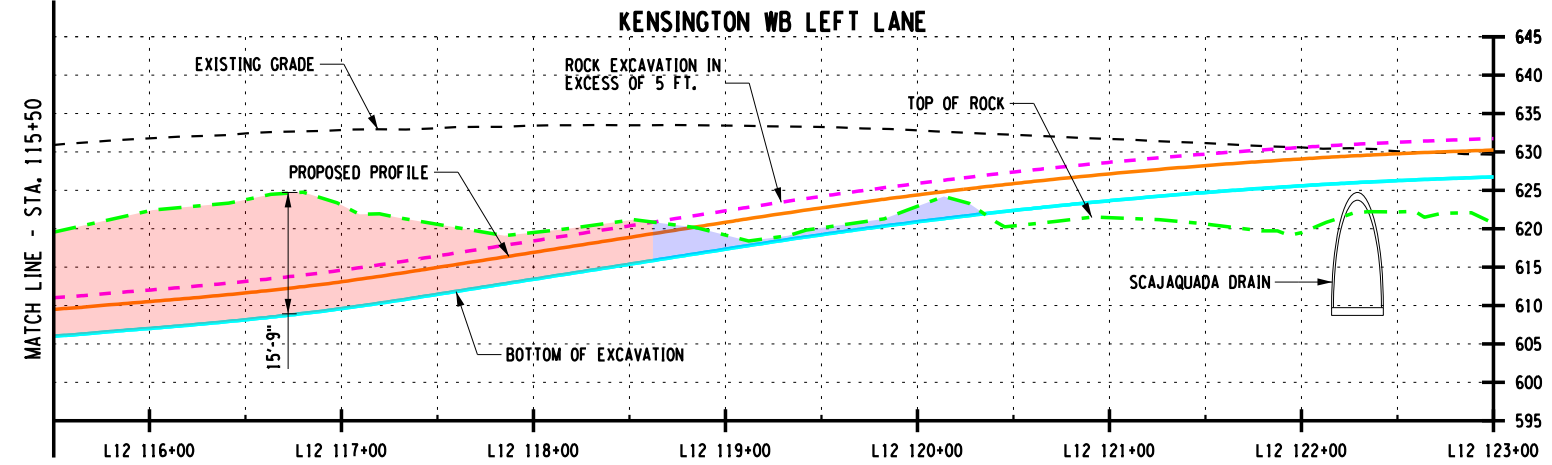
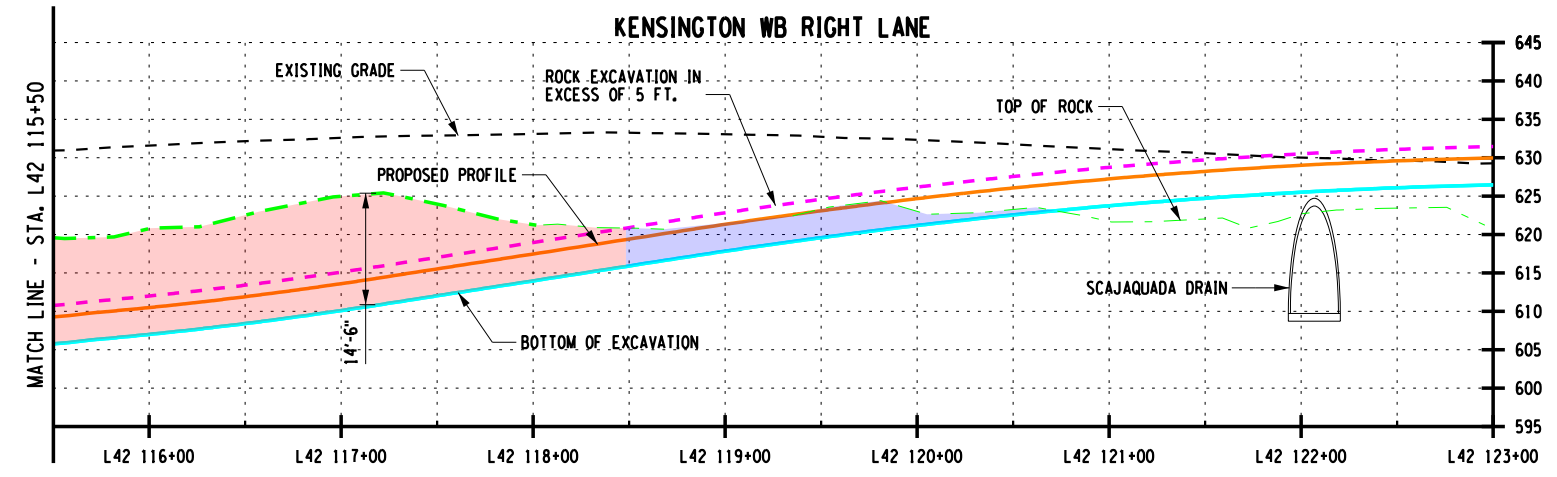
- - - EXISTING GRADE
- TOP OF ROAD SURFACE
- · - · - · - ROCK SURFACE BASED ON GPR AND EXISTING SOIL BORING INFO & RETAINING WALL INFO
- BOTTOM OF EXCAVATION
- · - · - · - ROCK EXCAVATION IN EXCESS OF 5 FT.
- ROCK EXCAVATION LESS THAN 5 FT.
- ROCK EXCAVATION IN EXCESS OF 5 FT.



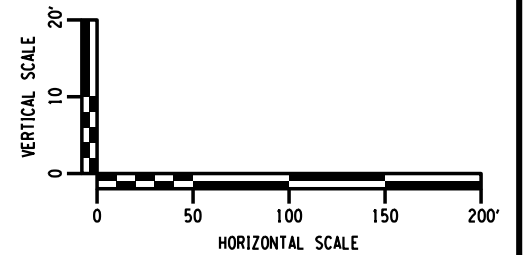
ROCK SURFACE PROFILE

DWG. NO. RPRO-4
SHEET NO. 7





- LEGEND**
- - - EXISTING GRADE
 - TOP OF ROAD SURFACE
 - - - ROCK SURFACE BASED ON GPR AND EXISTING SOIL BORING INFO & RETAINING WALL INFO
 - BOTTOM OF EXCAVATION
 - - - ROCK EXCAVATION IN EXCESS OF 5 FT.
 - █ ROCK EXCAVATION LESS THAN 5 FT.
 - █ ROCK EXCAVATION IN EXCESS OF 5 FT.



ROCK SURFACE PROFILE

DWG. NO. RPRO-5
SHEET NO. 8

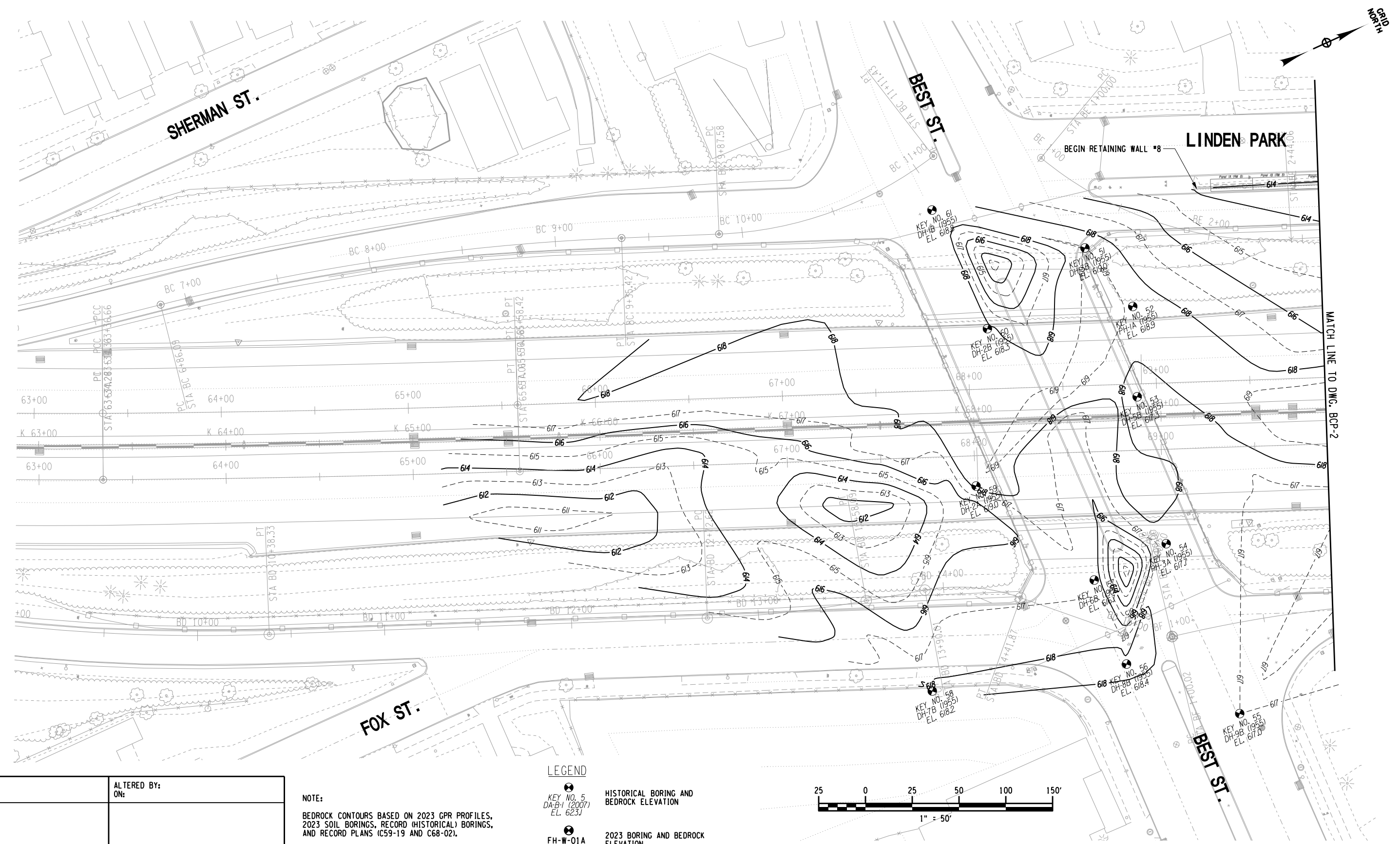
Department of Transportation
LaBella
 Powered by partnership.

BEDROCK CONTOUR PLAN

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

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 USER = 3:43:10 PM

PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



LEGEND

- KEY NO. 5 DA-B-1 (2007) EL. 623.1 HISTORICAL BORING AND BEDROCK ELEVATION
- KEY NO. 158 DH-7B (1955) EL. 618.2 2023 BORING AND BEDROCK ELEVATION

NOTE:
 BEDROCK CONTOURS BASED ON 2023 GPR PROFILES, 2023 SOIL BORINGS, RECORD (HISTORICAL) BORINGS, AND RECORD PLANS (C59-19 AND C68-02).

AFFIX SEAL: ON: ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

STATE ROUTE 33	PIN 5512.52
KENSINGTON EXPRESSWAY	BRIDGES
COUNTY: ERIE	REGION: 5

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

BEDROCK CONTOUR PLAN SHEET 1 OF 9

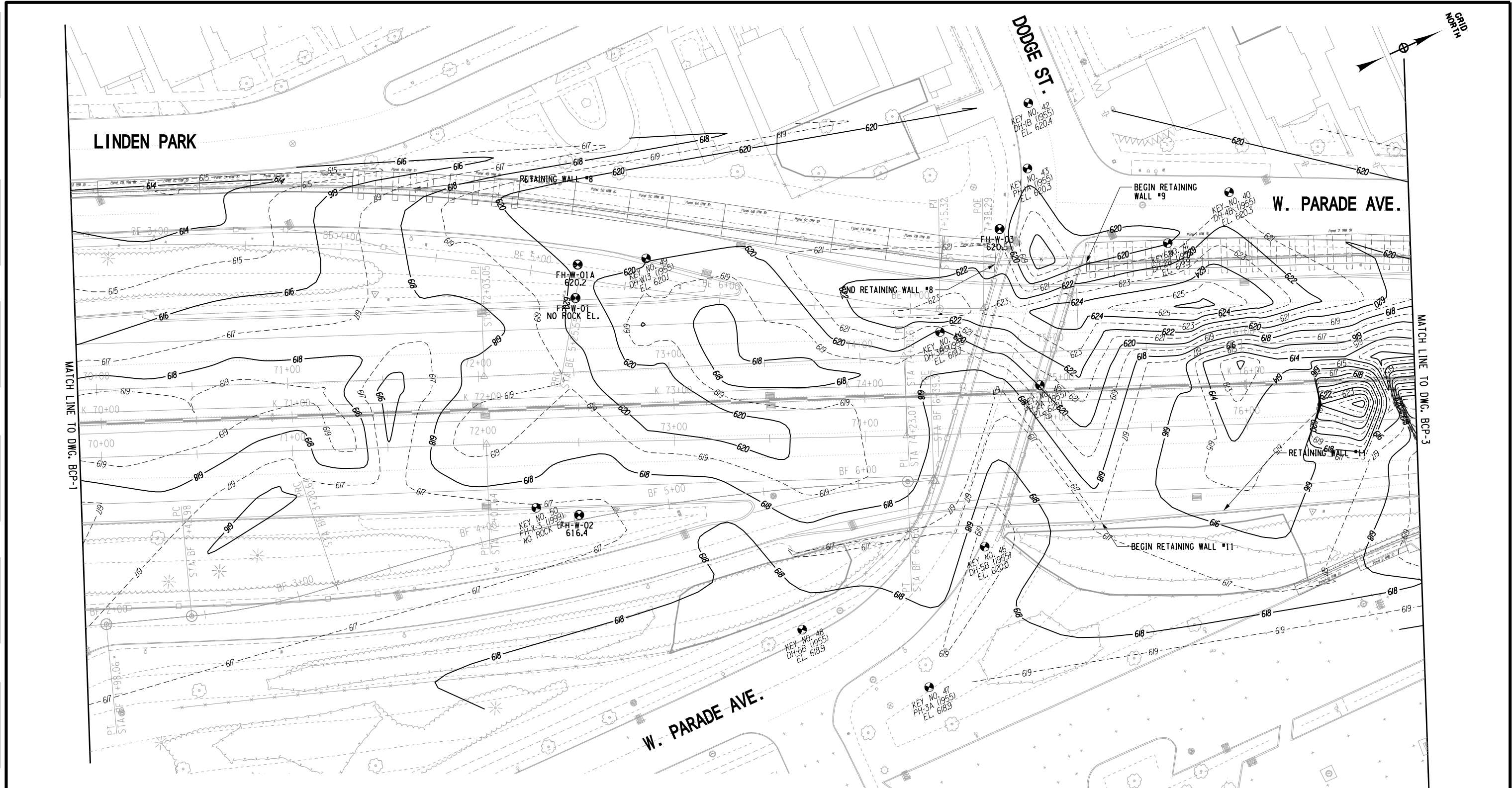
DRAWING NO. BCP-1
 SHEET NO. 1

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.



FILE NAME = \\projects\3\ANYS\001\2230860 - D038277 HW Des Kensington Expressway\06_Drawings\Structure\0551252_cph_rockContours.dgn
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 USER = 363915 PM

PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



AFFIX SEAL: ON:	ALTERED BY: ON:
--------------------	--------------------

NOTE:
 BEDROCK CONTOURS BASED ON 2023 GPR PROFILES, 2023 SOIL BORINGS, RECORD (HISTORICAL) BORINGS, AND RECORD PLANS (C59-19 AND C68-02).

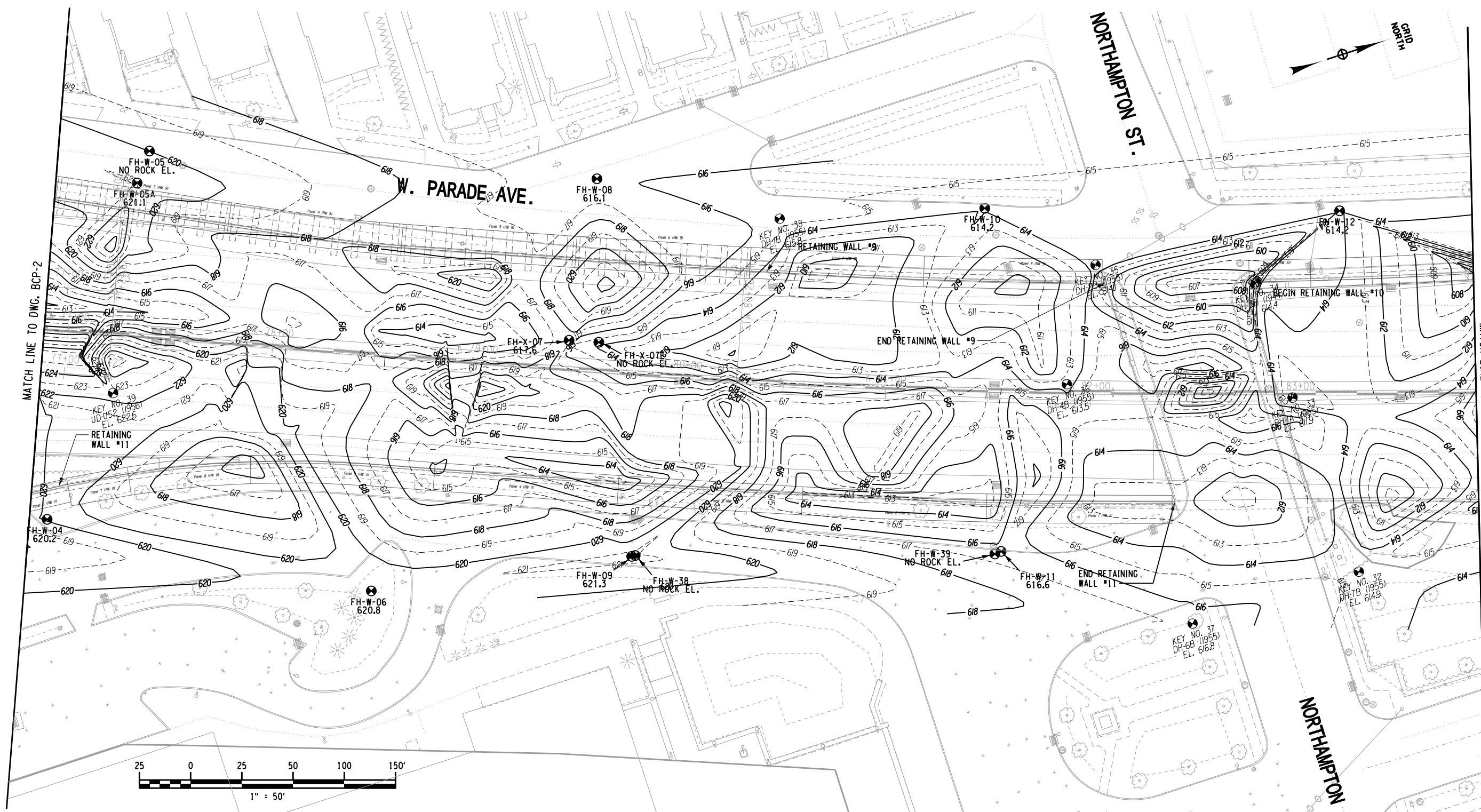
- LEGEND**
- KEY NO. 5 DA-B-1 (2007) EL. 623J HISTORICAL BORING AND BEDROCK ELEVATION
 - FH-W-01A 620.2 2023 BORING AND BEDROCK ELEVATION

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	STATE ROUTE 33	PIN 5512.52	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	KENSINGTON EXPRESSWAY					
COUNTY: ERIE		REGION: 5	BEDROCK CONTOUR PLAN SHEET 2 OF 9			DRAWING NO. BCP-2
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.						SHEET NO. 1



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PROJECT MANAGER
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 DRAFTING
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 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



NOTE:
 BEDROCK CONTOURS BASED ON 2023 GPR PROFILES,
 2023 SOIL BORINGS, RECORD (HISTORICAL) BORINGS,
 AND RECORD PLANS (C59-19 AND C68-02).

LEGEND
 KEY NO. 5 DA-B-1 (2007) EL. 623.1
 HISTORICAL BORING AND BEDROCK ELEVATION
 FH-W-01A 620.2
 2023 BORING AND BEDROCK ELEVATION

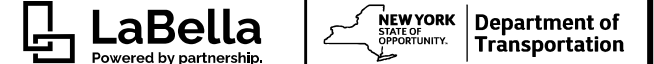
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AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

STATE ROUTE 33
 KENSINGTON EXPRESSWAY
 COUNTY: ERIE REGION: 5

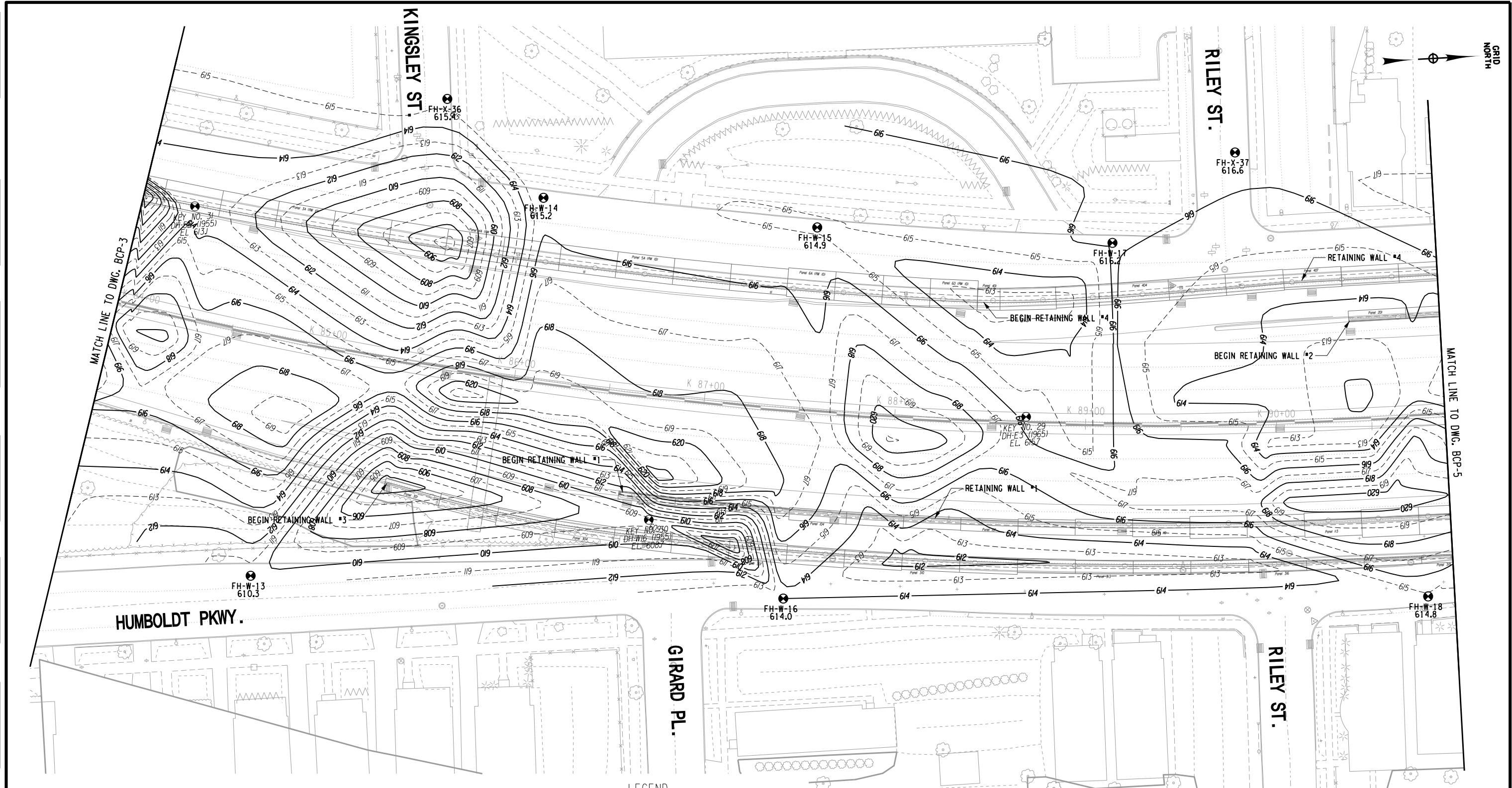
PIN 5512.52
 BRIDGES
 CULVERTS
 ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED
 CONTRACT NUMBER
 DRAWING NO. BCP-3
 SHEET NO. 1

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.



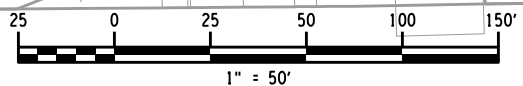
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PROJECT MANAGER
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 DRAFTING
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 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



NOTE:
 BEDROCK CONTOURS BASED ON 2023 GPR PROFILES, 2023 SOIL BORINGS, RECORD (HISTORICAL) BORINGS, AND RECORD PLANS (C59-19 AND C68-02).

LEGEND
 ● KEY NO. 5 DA-B1 (2007) EL. 623.1 HISTORICAL BORING AND BEDROCK ELEVATION
 ● FH-W-01A 620.2 2023 BORING AND BEDROCK ELEVATION



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

STATE ROUTE 33	PIN 5512.52
KENSINGTON EXPRESSWAY	
COUNTY: ERIE	REGION: 5

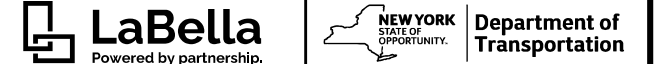
BRIDGES	CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

BEDROCK CONTOUR PLAN
 SHEET 4 OF 9

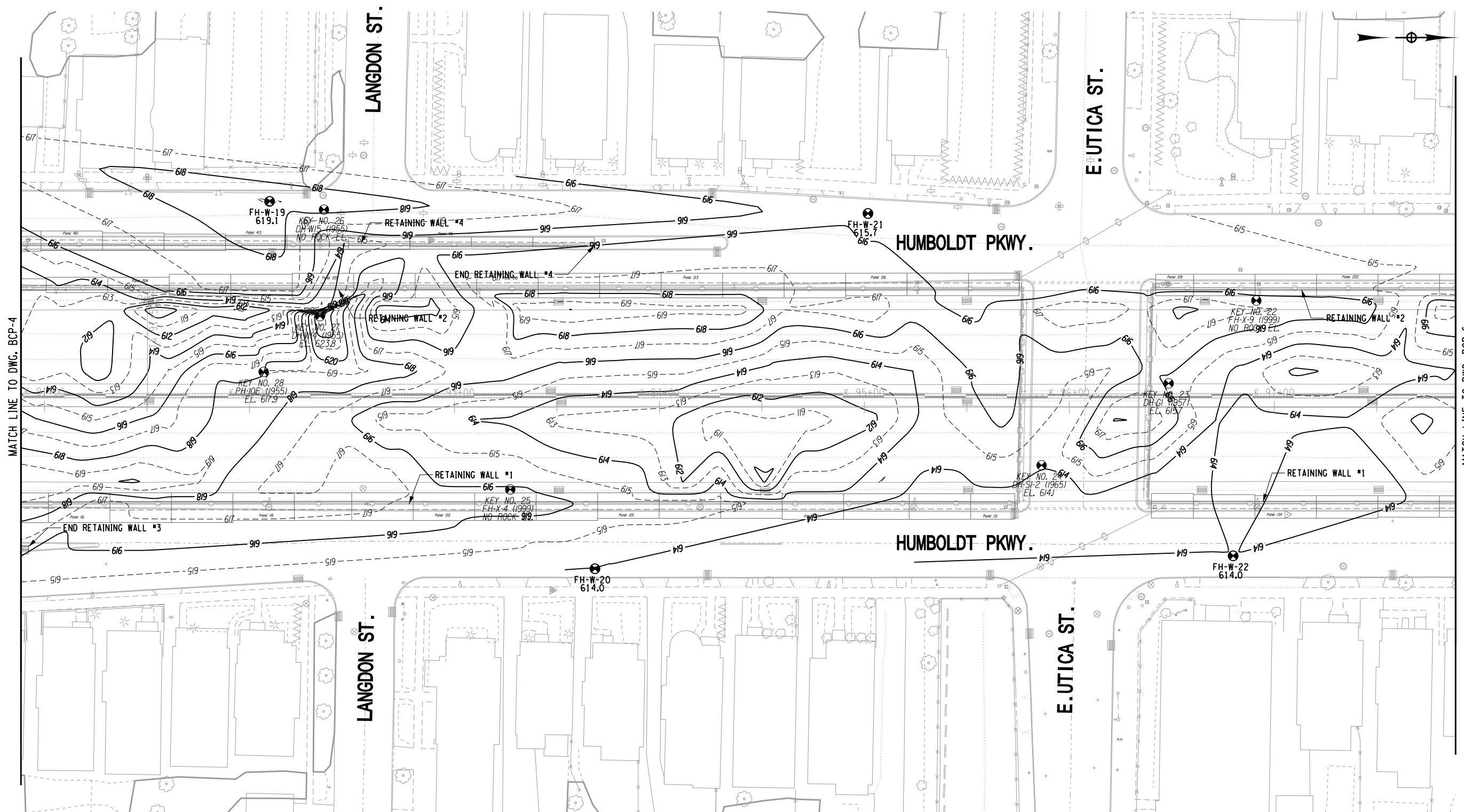
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DRAWING NO. BCP-4
SHEET NO. 1

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.



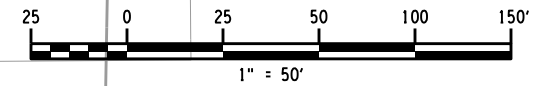
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DESIGN SUPERVISOR
 JOB MANAGER
 DESIGN
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 DRAFTING
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 PROJECT MANAGER



NOTE:
 BEDROCK CONTOURS BASED ON 2023 GPR PROFILES,
 2023 SOIL BORINGS, RECORD (HISTORICAL) BORINGS,
 AND RECORD PLANS (C59-19 AND C68-02).

LEGEND
 KEY NO. 5
 DA-B-1 (2007)
 EL. 623.1
 HISTORICAL BORING AND
 BEDROCK ELEVATION
 FH-W-01A
 620.2
 2023 BORING AND BEDROCK
 ELEVATION



AFFIX SEAL:
 ON:
 ALTERED BY:
 ON:

AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

STATE ROUTE 33
 KENSINGTON EXPRESSWAY
 COUNTY: ERIE REGION: 5

PIN 5512.52

BRIDGES
 CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

BEDROCK CONTOUR PLAN
 SHEET 5 OF 9

DRAWING NO. BCP-5
 SHEET NO. 1

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.



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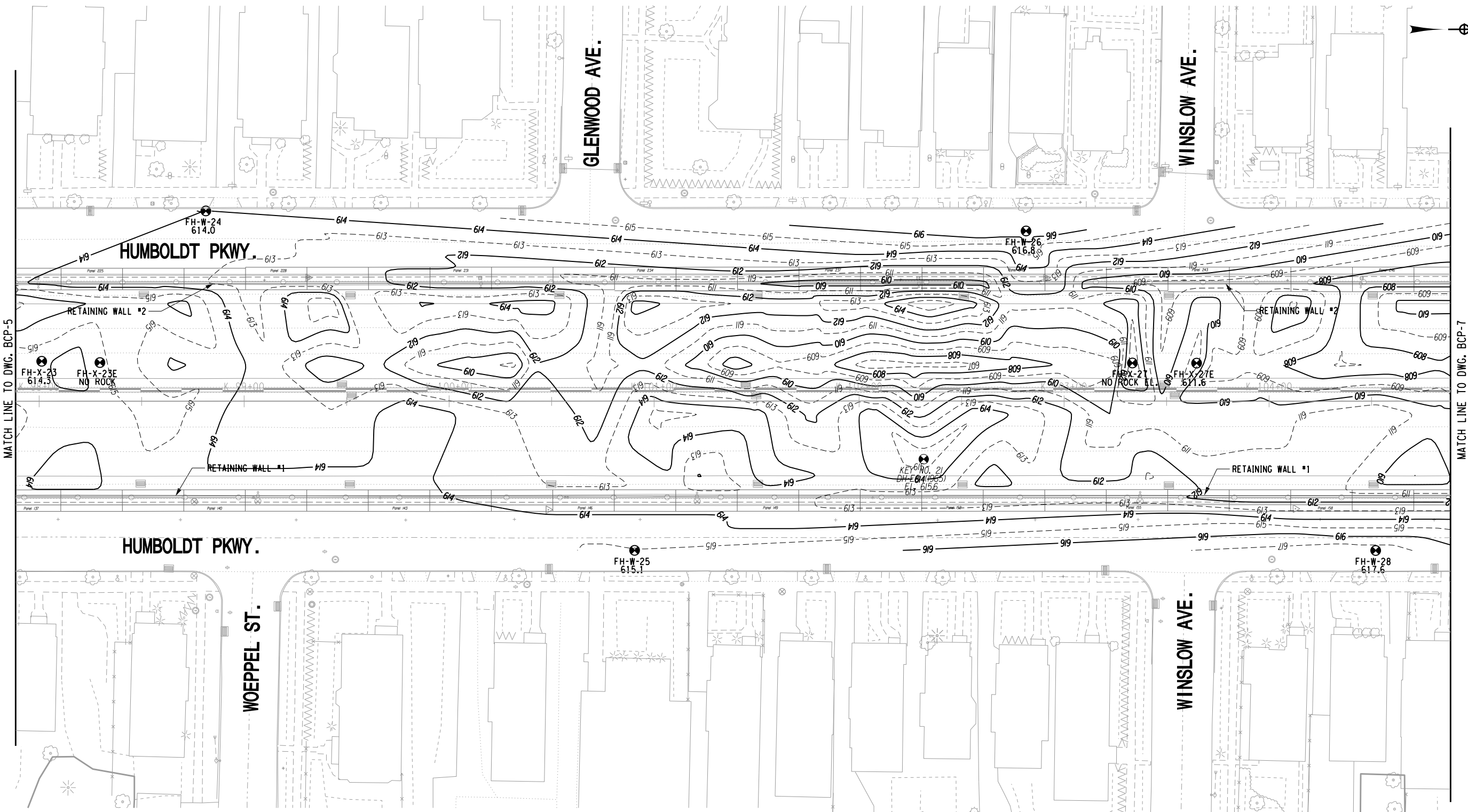
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DESIGN

JOB MANAGER

DESIGN SUPERVISOR



MATCH LINE TO DWG. BCP-5

MATCH LINE TO DWG. BCP-7

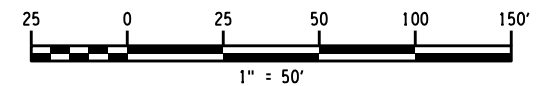
GRID NORTH

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

NOTE:
 BEDROCK CONTOURS BASED ON 2023 CPR PROFILES,
 2023 SOIL BORINGS, RECORD (HISTORICAL) BORINGS,
 AND RECORD PLANS (C59-19 AND C68-02).

LEGEND

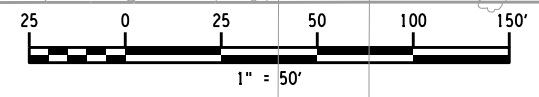
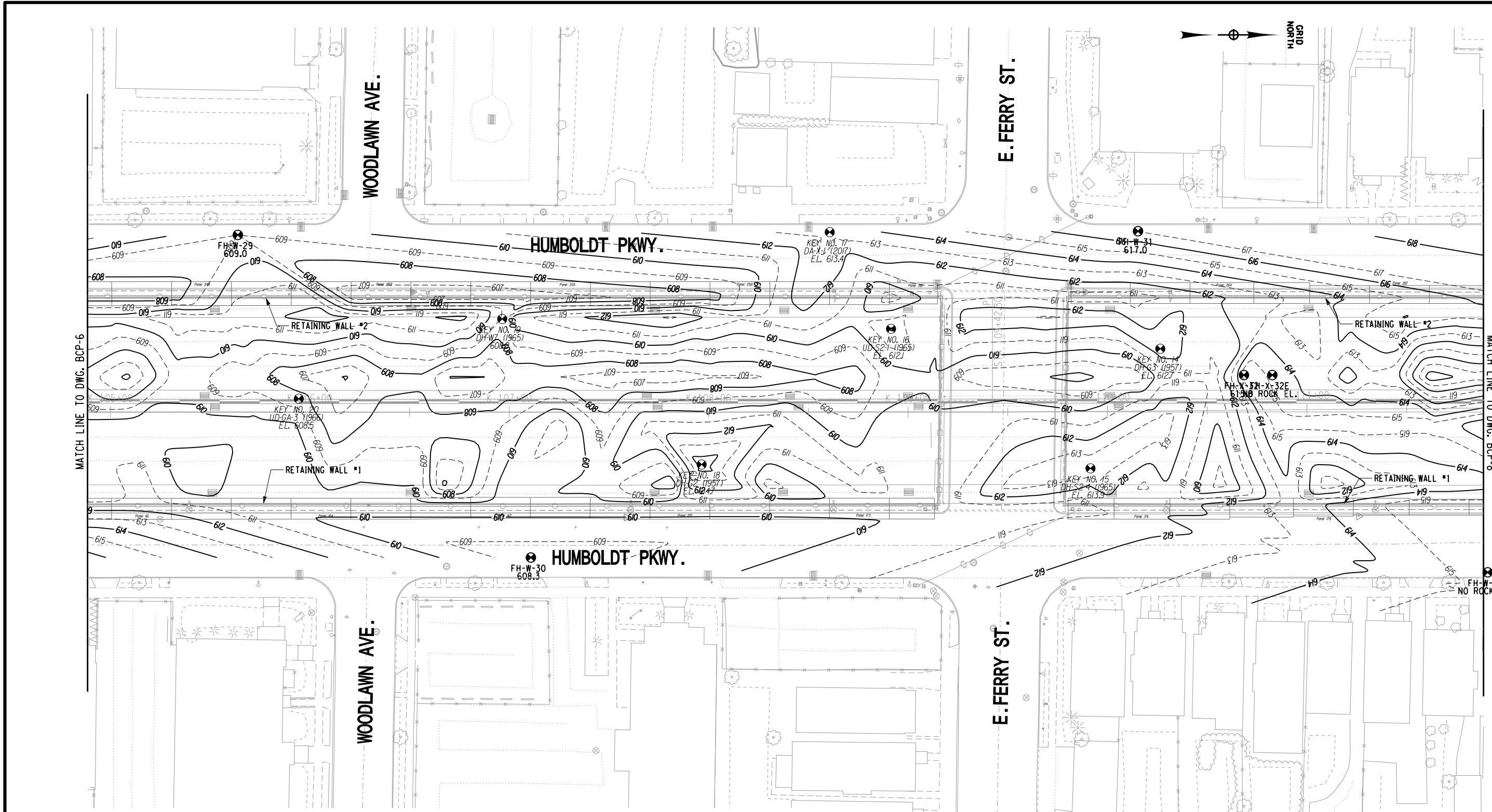
- HISTORICAL BORING AND BEDROCK ELEVATION
- 2023 BORING AND BEDROCK ELEVATION



STATE ROUTE 33	PIN 5512.52	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
KENSINGTON EXPRESSWAY				BEDROCK CONTOUR PLAN SHEET 6 OF 9	DRAWING NO. BCP-6	
COUNTY: ERIE	REGION: 5				SHEET NO. 1	
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.					 LaBella Powered by partnership.	 NEW YORK STATE OF OPPORTUNITY Department of Transportation

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PROJECT MANAGER
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 DRAFTING
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 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



NOTE:
 BEDROCK CONTOURS BASED ON 2023 GPR PROFILES,
 2023 SOIL BORINGS, RECORD (HISTORICAL) BORINGS,
 AND RECORD PLANS (C59-19 AND C68-02).

LEGEND
 KEY NO. 5 DA-B4 (2007) EL. 623
 HISTORICAL BORING AND BEDROCK ELEVATION
 FH-W-01A 620.2
 2023 BORING AND BEDROCK ELEVATION

AFFIX SEAL: ON:
 ALTERED BY: ON:

AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

STATE ROUTE 33
 KENSINGTON EXPRESSWAY
 COUNTY: ERIE REGION: 5

PIN 5512.52
 BRIDGES
 CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED
 BEDROCK CONTOUR PLAN
 SHEET 7 OF 9

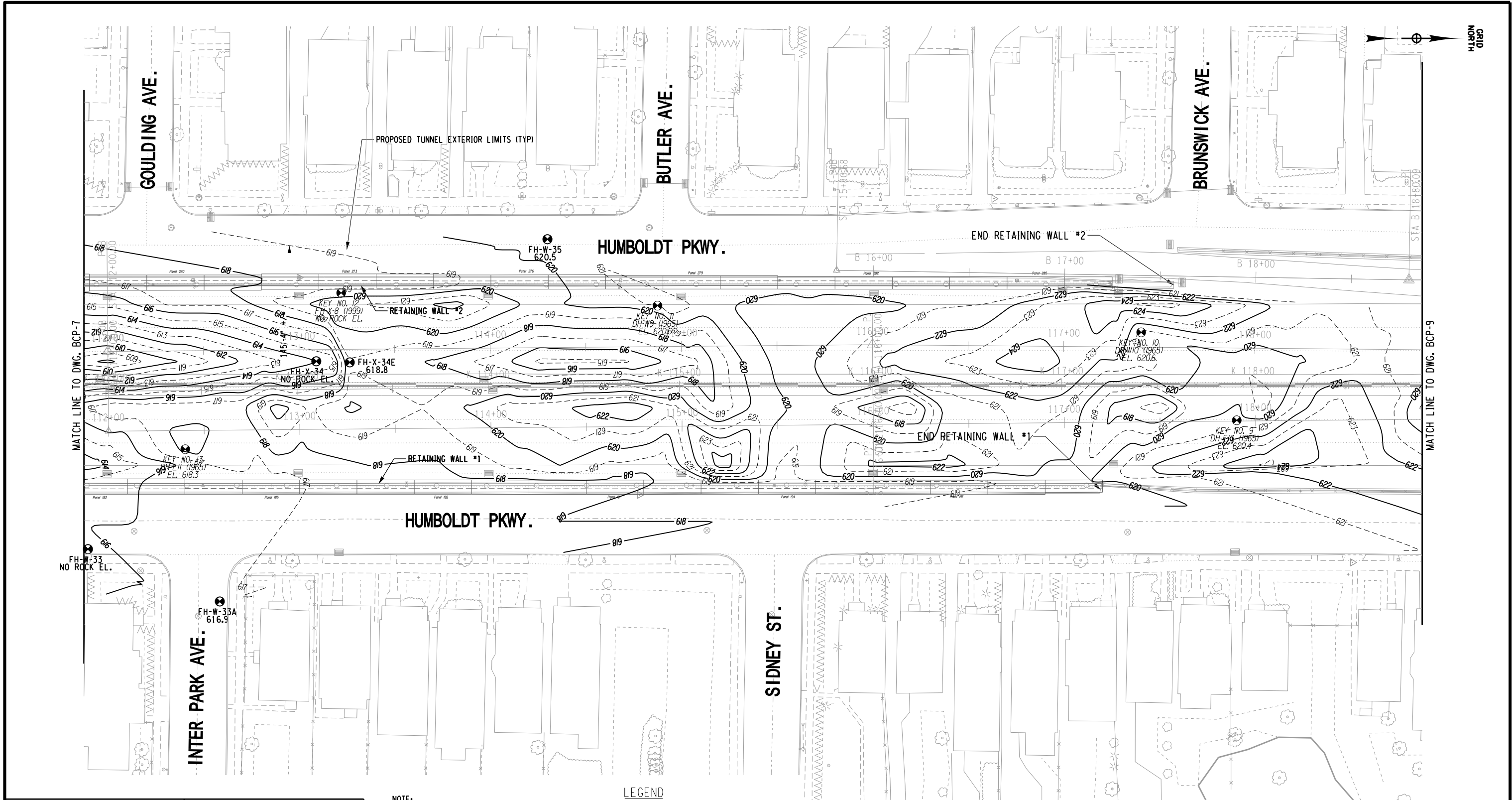
CONTRACT NUMBER
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 SHEET NO. 1

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.



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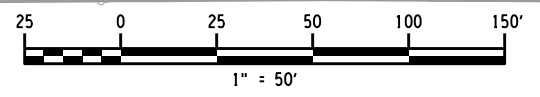
DESIGN SUPERVISOR
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 PROJECT MANAGER



GRID NORTH

NOTE:
 BEDROCK CONTOURS BASED ON 2023 CPR PROFILES,
 2023 SOIL BORINGS, RECORD (HISTORICAL) BORINGS,
 AND RECORD PLANS (C59-19 AND C68-02).

- LEGEND
- HISTORICAL BORING AND BEDROCK ELEVATION
 - 2023 BORING AND BEDROCK ELEVATION



AFFIX SEAL:
 ON:

ALTERED BY:
 ON:

AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

STATE ROUTE 33
 KENSINGTON EXPRESSWAY
 COUNTY: ERIE REGION: 5

PIN 5512.52

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

CONTRACT NUMBER

BEDROCK CONTOUR PLAN
 SHEET 8 OF 9

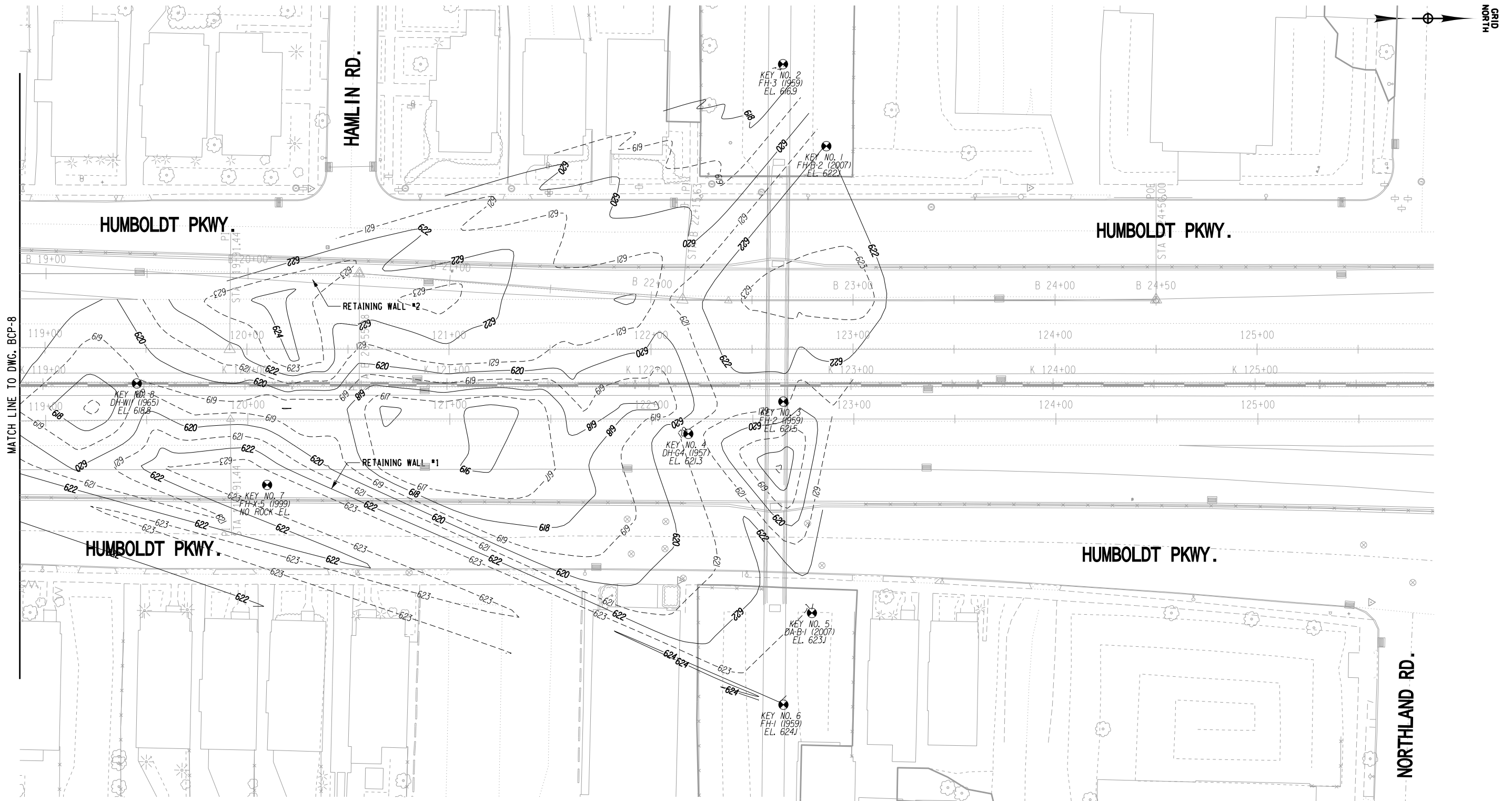
DRAWING NO. BCP-8
 SHEET NO. 1

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.



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DESIGN SUPERVISOR
 JOB MANAGER
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 PROJECT MANAGER



GRID NORTH

AFFIX SEAL: ON:
 ALTERED BY: ON:

NOTE:
 BEDROCK CONTOURS BASED ON 2023 GPR PROFILES, 2023 SOIL BORINGS, RECORD (HISTORICAL) BORINGS, AND RECORD PLANS (C59-19 AND C68-02).

LEGEND
 ● KEY NO. 5 DA-B-1 (2007) EL. 623J HISTORICAL BORING AND BEDROCK ELEVATION
 ● FH-W-01A 620.2 2023 BORING AND BEDROCK ELEVATION



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

STATE ROUTE 33
 KENSINGTON EXPRESSWAY
 COUNTY: ERIE REGION: 5

PIN 5512.52
 BRIDGES
 CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED
 BEDROCK CONTOUR PLAN
 SHEET 9 OF 9

CONTRACT NUMBER
 DRAWING NO. BCP-9
 SHEET NO. 1

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.