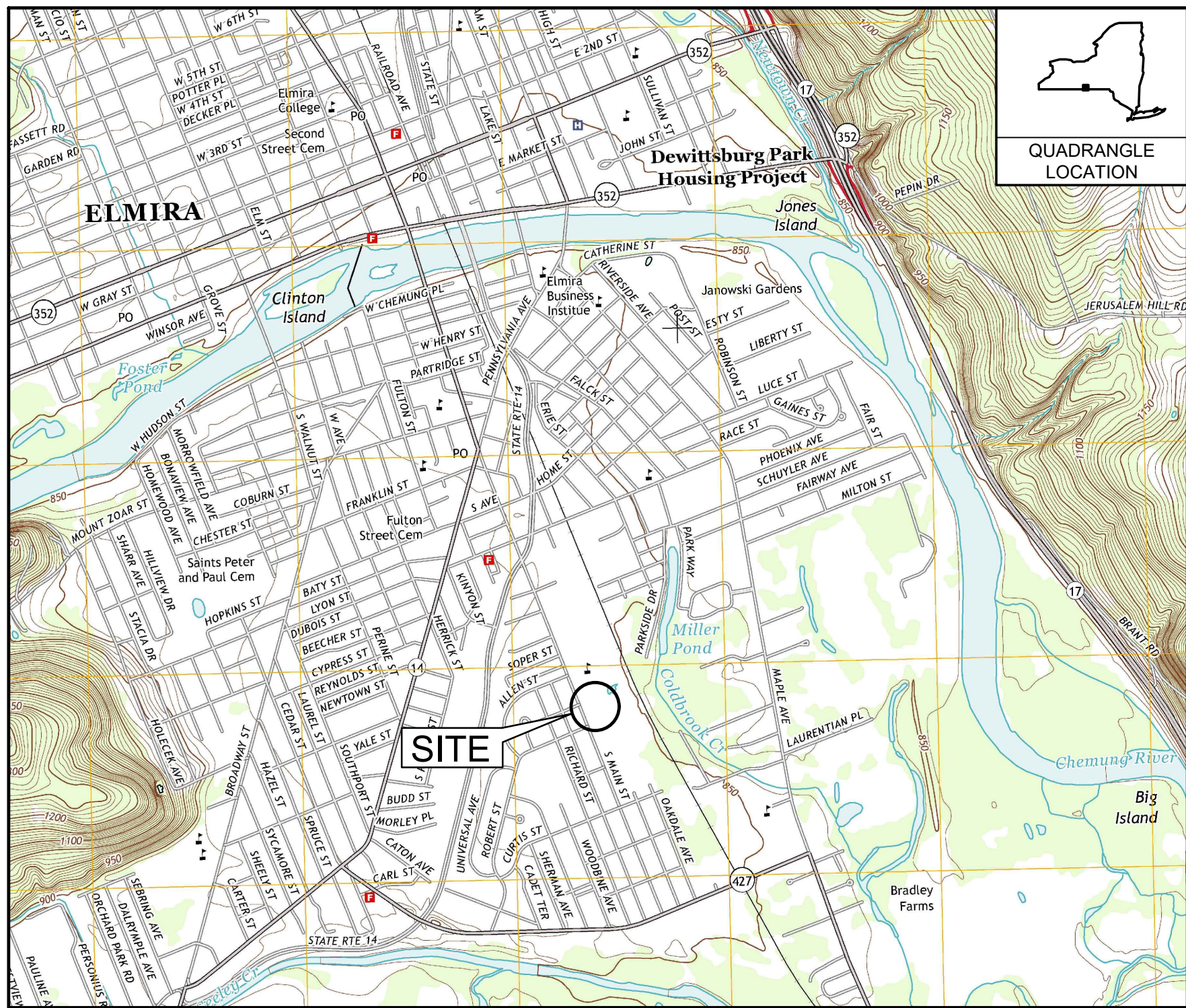


INTERIM REMEDIATION MEASURE #2

AS-BUILT DRAWINGS FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK FEBRUARY 2019



LOCATION MAP

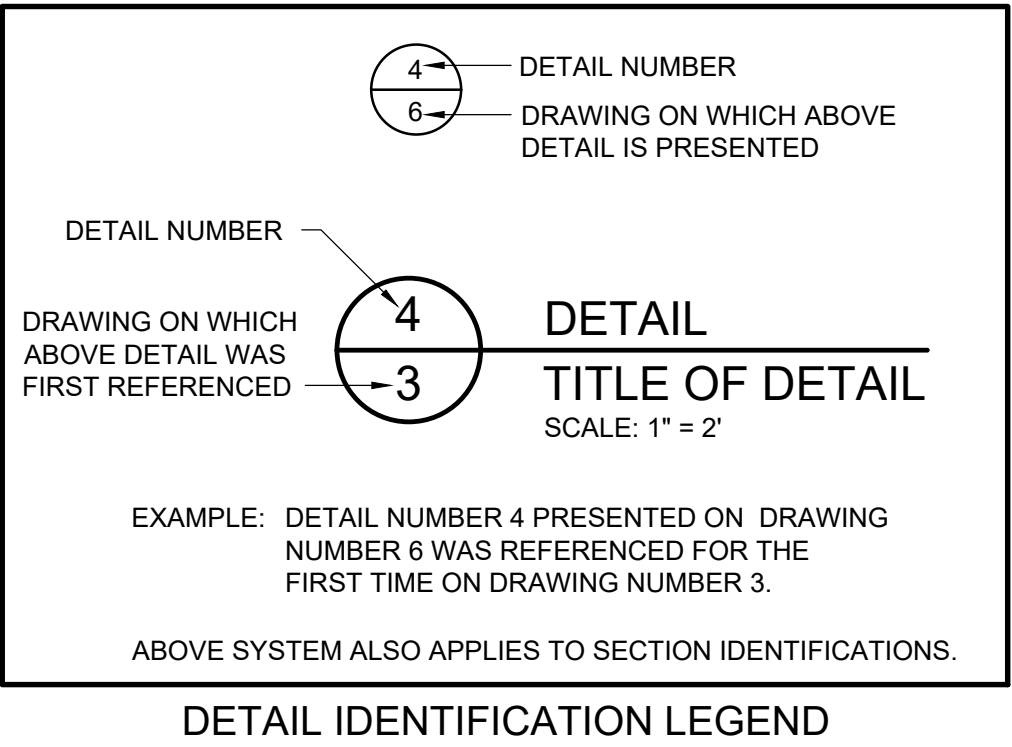
DRAWING NO.	DRAWING TITLE
1	TITLE SHEET
2	AS-BUILT EXCAVATION PLAN
3	0-2 FEET EXCAVATION
4	2-4 FEET EXCAVATION
5	4-6 FEET EXCAVATION
6	6-8 FEET EXCAVATION
7	8-10 FEET EXCAVATION
8	10-12 FEET EXCAVATION
9	12-14 FEET EXCAVATION
10	INTERMEDIATE RESTORATION
11	AS-BUILT FINAL RESTORATION
12	WATER LINE RELOCATION
13	MATERIAL STAGING AREA

PREPARED FOR: **UNISYS CORPORATION**

CORPORATE ENVIRONMENTAL AFFAIRS
3199 PILOT KNOB ROAD MS F1B05
EAGAN, MN 55121

PREPARED BY: **Beech and Bonaparte**
engineering p.c.
an affiliate of Geosyntec Consultants

10211 WINCOPIN CIRCLE, FLOOR 4
COLUMBIA, MD 20144
PHONE: (410) 381-4333



AS-BUILT DRAWING

4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP

Beech and Bonaparte
engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: TITLE SHEET

PROJECT: INTERIM REMEDIATION MEASURE
AS-BUILT DRAWINGS

SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION
ELMIRA, NEW YORK

DESIGN BY: AK DATE: JUNE 2020

DRAWN BY: TSJ PROJECT NO.: MN0832D

CHECKED BY: JMT FILE: MN0832D101

REVIEWED BY: PLB FIGURE NO.: 1 OF 13

APPROVED BY: AK

SIGNATURE: *Aron Kozmopol*
DATE: 2/3/2021

STATE OF NEW YORK
ARON KOZMOPOL
089954-1
PROFESSIONAL ENGINEER

\\columbia-01\data\cad\PROJECTS\ELMIRA\1-19\DRAWINGS\MN0832D 1.dwg
asaregaw - 2/3/2021 1:40 PM



LEGEND

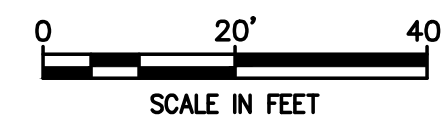
- SITE BUILDING
- BASIN CULVERT
- PIPE
- CHAIN LINK FENCE
- WOODEN FENCE
- PROPERTY LINE
- EDGE OF WATER
- BURIED ELECTRIC CABLE
- SANITARY SEWER
- STORM SEWER
- NATURAL GAS LINE
- WATER LINE
- SUBGRADE CONTOUR (FT, MSL)
- ENCOUNTERED CONCRETE SLAB
- ENCOUNTERED CONCRETE WALL
- CONCRETE ARTIFACT
- ELEVATION OF CONCRETE (FT, MSL)

Concrete Artifact	Area (ft ²)	Height (ft)	Volume (ft ³)	Volume (yds ³)
A	52.23	7.0	365.61	13.54
B	48.22	7.0	337.54	12.50
C	43.82	7.0	306.74	11.36
D	97.68	4.0	390.72	14.47
E	88.11	7.0	616.77	22.84
F	112.75	7.0	789.25	29.23
G	75.78	6.0	454.68	16.84
H	72.04	4.0	288.16	10.67

Concrete Artifact	Area (ft ²)	Height (ft)	Volume (ft ³)	Volume (yds ³)
I	217.67	7.0	1523.69	56.43
J	186.56	7.0	1305.92	48.37
K	53.14	7.0	371.98	13.78
L	4.52	7.0	31.64	1.17
M	4.45	7.0	31.15	1.15
N	4.51	7.0	31.57	1.17

NOTES:

- EXISTING TOPOGRAPHY IS FROM:
 - A TOPOGRAPHIC SURVEY OF ELMIRA HIGH SCHOOL BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS IN SEPTEMBER 2016. VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88/GEOD 12A), HORIZONTAL CONTROL IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/NA 2011).
 - A TOPOGRAPHIC SURVEY OF FORMER REMINGTON RAND SITE BY WEILER ASSOCIATES, DATED 27 APRIL 2011.
- AS-BUILT SUBGRADE ELEVATIONS BASED ON SURVEY OF SUB GRADE REMEDIATION AREA BY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS DATED 6 OCTOBER 2018 AND REVISED 6 NOVEMBER 2018.



4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP

Beech and Bonaparte
engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: AS-BUILT EXCAVATION PLAN	
PROJECT: INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS	
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK	

DESIGN BY: AK	DATE: JUNE 2020
DRAWN BY: TSJ	PROJECT NO.: MN0832D
CHECKED BY: JMT	FILE: MN0832D102
REVIEWED BY: PLB	FIGURE NO.: 2 OF 13
APPROVED BY: AK	

SIGNATURE
2/3/2021
DATE

AS-BUILT DRAWING



NOTES:

PCBS REMAINING IN PLACE SHOWN IN ITALICS
(> RESTRICTED RESIDENTIAL SOIL CLEANUP
OBJECTIVE OF 1 MG/KG (6 NYCRR PART 375))

RESIDUAL PCBS SHOWN IN BOLD
(>= NYS HAZARDOUS WASTE (50MG/KG))

NOTES:

METALS REMAINING IN PLACE SHOWN IN ITALICS
(> RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVE (6 NYCRR PART 375))

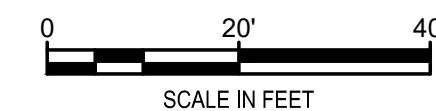
RESIDUAL METALS SHOWN IN BOLD
(>200X TCLP LEAD OR > 20X TCLP FOR OTHER METALS)

TCLP – TOXICITY CHARACTERISTIC LEACHING PROCEDURE

BOTTOM		
Boring ID	Depth Interval (mtrl/kg)	PCB Concentration (mg/kg)
SSHS-UTP-01	2-4	94.61
SSHS-UTP-01	2-4	94.61
SSHS-E-4.2	2-4	46.24
SSHS-UTP-02	2-4	34.63
SSHS-UTP-02	2-4	34.63
SSHS-B1320	2-4	23.32
SSHS-SW013	2-4	4.408
SSHS-B868	2-4	2.813
SSHS-B950	2-4	2.351
SSHS-B873	2-4	1.731
SSHS-B865	2-4	0.9921
SSHS-B555	2-4	0.866
SSHS-B530	2-4	0.6958
SSHS-UTP-03	2-4	0.5213
SSHS-UTP-03	2-4	0.513
SSHS-B1033	2-4	0.4701
SSHS-B554	2-4	0.4427
SSHS-B374	2-4	0.374
SSHS-B896	2-4	0.3338
SSHS-B1395	2-4	0.2947
SSHS-B1193	2-4	0.2194
SSHS-B867	2-4	0.1959
SSHS-B949	2-4	0.1853
SSHS-B1394	2-4	0.191
SSHS-B1034	2-4	0.1658
SSHS-B866	2-4	0.1624
SSHS-B871	2-4	0.1285
SSHS-B1226	2-4	0.0982
SSHS-B951	2-4	0.0955
SSHS-B1072	2-4	0.093
SSHS-B903	2-4	0.0915
SSHS-B872	2-4	0.07725
SSHS-B520	2-4	0.0714
SSHS-B1227	2-4	0.0648
SSHS-B383	2-4	0.039
SSHS-B140	2-4	0

TABLE NOTES:

1. THE IRM SOIL CLEANUP GOAL FOR 0-2 FT BGS WAS 1 MG/KG.
2. METALS RESULTS ARE SHOWN ONLY FOR METAL CONSTITUENTS WITH AT LEAST ONE EXCEEDANCE OF RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVES (6 NYCRR PART 375-6).



4	2/3/21		RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20		RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20		RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19		RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE		DESCRIPTION	DRN	APP

Beech and Bonaparte 

engineering p.c.

an affiliate of Geosyntec Consultants



TITLE:	0-2 FEET EXCAVATION
PROJECT:	INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS
SITE:	FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK



SIGNATURE

2/3/2021

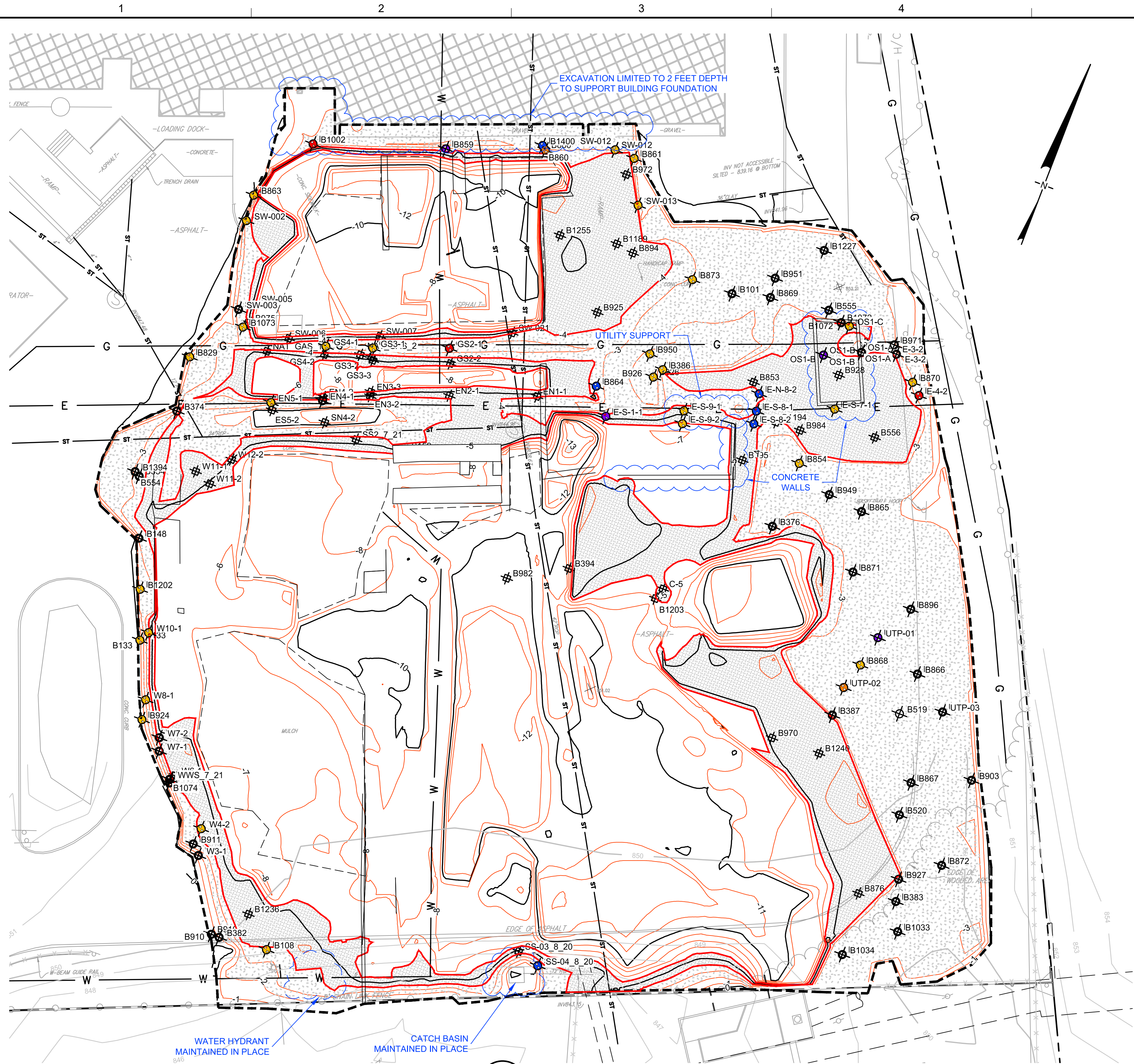
DATE



DESIGN BY:	AK	DATE:	JUNE 2020
DRAWN BY:	TSJ	PROJECT NO.:	MN0832D
CHECKED BY:	JMT	FILE:	MN0832D102-10
REVIEWED BY:	PLB	FIGURE NO.:	3 OF 13
APPROVED BY:	AK		

AS-BUILT DRAWING

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3
-
PLAN
2-4 FT EXCAVATION

LEGEND

	PRE-DELINEATION CONFIRMATION SAMPLE		EXCAVATION LIMITS		BOTTOM OF EXCAVATION/DEMARCATION LAYER 0-2 FEET EXCAVATION
	MAN-HOLE CATCH		MAJOR ISOPACH CONTOUR		BOTTOM OF EXCAVATION/DEMARCATION LAYER 2-4 FEET EXCAVATION
	Basin Culvert		MINOR ISOPACH CONTOUR		
	PIPE		CONCRETE STONE SLAB		
	CHAIN LINK FENCE				
	GUARD RAIL				
	PROPERTY LINE				
	EXISTING CONTOUR LINE				
	EDGE OF WATER				
	BURIED ELECTRIC CABLE				
	SANITARY SEWER				
	STORM SEWER				
	NATURAL GAS LINE				
	WATER LINE				
	AS-BUILT LIMIT OF 2-4 FT EXCAVATION				

NOTES:

- SEE SHEET 2 FOR GENERAL NOTES.
- EXCAVATION ISOPACH DEVELOPED FROM AS-BUILT SUBGRADE ELEVATIONS BASED ON SURVEY OF SUB GRADE REMEDIATION AREA DATED 6 OCTOBER 2018 AND REVISED 6 NOVEMBER 2018 AND SURVEY OF REMEDIATION AREA EXISTING GRADE DATED 19 JUNE 2018 BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS.
- EXCAVATION AREAS BASED ON CONSTRUCTION DRAWINGS INCLUDED IN REVISED FINAL IRM #2 WORK PLAN DATED 13 JULY 2018 AND APPROVED BY NYSDEC ON 25 JULY 2018.
- BENCHING AND SLOPING OF EXCAVATION WAS USED TO SUPPORT EXCAVATION AND UTILITIES IN ACCORDANCE WITH AMENDMENT #2 TO REVISED FINAL IRM #2 WORK PLAN DATED 16 JULY 2018 AND ACCEPTED BY NYSDEC ON 31 JULY 2018.
- AS-BUILT EXCAVATION DID NOT ACHIEVE DESIGN DEPTHS IN AREAS NOTED DUE TO SUBSURFACE CONCRETE STRUCTURES ENCOUNTERED AND REQUIREMENTS FOR EXCAVATION AND UTILITY SUPPORT IN ACCORDANCE WITH AMENDMENT #2.

Boring ID	Depth Interval (ft bgs)	PCB Concentration (mg/kg)
SSHS-E-S-1-1	3.4-3.4	259.8
SSHS-OS1-B	2-4	184.7
SSHS-B859	2-4	97.81
SSHS-UTP-01	2.4-2.4	94.61
SSHS-GS2-1	2.8-2.8	48.33
SSHS-E-4-2	2.5-2.5	46.24
SSHS-B1002	2-4	41.38
SSHS-UTP-02	2.5-2.5	34.63
SSHS-B860	2-4	31
SSHS-E-N-8-2	3.7-3.7	19.57
SSHS-E-S-8-1	2.3-2.3	17.72
SSHS-B1400	2-4	16.59
SSHS-B864	2-4	14.3
SSHS-E-S-8-2	3.8-3.8	13.46
SSHS-SS-04_8_20	2-4	12.45
SSHS-B854	2-4	8.151
SSHS-GS3-1	2.5-2.5	7.636
SSHS-E-S-9-1	2.3-2.3	7.171
SSHS-GS4-1	3.2-3.2	5.271
SSHS-B108	2-4	4.9
SSHS-B863	2-4	4.761
SSHS-SW-013	2-4	4.408
SSHS-B870	2-4	4.351
SSHS-E-S-7-1	2.9-2.9	4.262
SSHS-E-S-9-2	3.4-3.4	4.231
SSHS-W8-1	2.4-2.4	3.743
SSHS-SW-002	2-4	3.243
SSHS-EN5-1	3.2-3.2	3.213
SSHS-B133	2-4	2.82
SSHS-B868	2-4	2.813
SSHS-B924	2-4	2.481
SSHS-B386	2-4	2.39
SSHS-B926	2-4	2.371
SSHS-B950	2-4	2.351
SSHS-B1202	2-4	2.124
SSHS-B861	2-4	2.021
SSHS-SW-012	2-4	1.974
SSHS-B829	2-4	1.811
SSHS-B873	2-4	1.731
SSHS-W10-1	3.6-3.6	1.731
SSHS-W4-2	3.9-3.9	1.711
SSHS-OS1-C	2-4	1.053
SSHS-B1073	2-4	1.034
SSHS-B865	2-4	0.9921
SSHS-EN4-1	3.6-3.6	0.8809
SSHS-B555	2-4	0.866
SSHS-SW-003	2-4	0.786
SSHS-B148	2-4	0.772
SSHS-W7-2	3.9-3.9	0.6431
SSHS-B971	2-4	0.6275
SSHS-UTP-03	2.5-2.5	0.6213
SSHS-WWS_7_21	2.7-2.7	0.5598
SSHS-B911	2-4	0.5336
SSHS-B1033	2-4	0.4701
SSHS-B554	2-4	0.4427
SSHS-B869	2-4	0.3758
SSHS-B374	2-4	0.374
SSHS-B896	2-4	0.3338
SSHS-E-3-2	2.3-2.3	0.328
SSHS-B376	2-4	0.265
SSHS-B1074	2-4	0.2486
SSHS-W3-1	2.5-2.5	0.2372
SSHS-W7-1	2.5-2.5	0.2109
SSHS-B867	2-4	0.1959
SSHS-B949	2-4	0.1953
SSHS-B1394	2-4	0.191
SSHS-B1034	2-4	0.1658
SSHS-B866	2-4	0.1624
SSHS-B910	2-4	0.1311
SSHS-B871	2-4	0.1285
SSHS-B927	2-4	0.1138
SSHS-OS1-A	2-4	0.1028
SSHS-B872	2-4	0.07725
SSHS-B520	2-4	0.0714
SSHS-B1227	2-4	0.0648
SSHS-B383	2-4	0.039
SSHS-B387	2-4	0.021
SSHS-B951	2-4	<0.0955
SSHS-B1072	2-4	<0.093
SSHS-B903	2-4	<0.0915
SSHS-B101	3-6	<0
SSHS-B382	2-4	<0

NOTES:

PCBS REMAINING IN PLACE SHOWN IN ITALICS
(>SUBSURFACE CLEANUP GOAL OF 10MG/KG)

RESIDUAL PCBS SHOWN IN BOLD
(>= NYS HAZARDOUS WASTE (50MG/KG))

COPCs REMAINING (2-4 FT BGS)

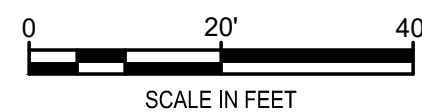
		Metals				
		Lead	Arsenic	Barium	Copper	Nickel
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		0.39	0.39	7.9	0.99	1.6
Metals 20x TCLP Screening (Lead = 1000 ppm)		1000	100	2000		
Boring ID	Depth Interval (ft bgs)					
SSHS-B519	2-4	290	11	280	550	170
SSHS-B520	2-4	240	21	1500	230	470
SSHS-B524	2-4	61	11	89	74	58
SSHS-B555	2-4	3300	9.7	240	48	63
SSHS-OS1-A	2-4	610	25	370	98	45
SSHS-OS1-B	2-4	340	14	240	240	340
SSHS-OS1-C	2-4	17	7	94	23	22
SSHS-W3-1	2.5-2.5	8.6	5	58	23	14
SSHS-W10-1	3.6-3.6	90	6.9	71	74	86
SSHS-B101	3-6	120	17	140	70	16

BOTTOM

Boring ID	Depth Interval (ft bgs)	PCB Concentration (mg/kg)
SSHS-B159	4-6	61.4
SSHS-SW-006	4-6	28.21
SSHS-SW-021	4-6	12.47
SSHS-B1255	4-6	7.591
SSHS-B894	4-6	6.861
SSHS-SW-007	4-6	6.401
SSHS-E55-2	4-6	5.864
SSHS-SS2_7_21	4-6	4.441
SSHS-B394	4-6	4.26
SSHS-EN3-2	4-6	4.104
SSHS-GS2-2	4-6	3.481
SSHS-SS-03_8_20	4-6	3.203
SSHS-EN2-1	4-6	2.851
SSHS-B1236	4-6	2.631
SSHS-GS4-2	4-6	2.582
SSHS-C-5	4-6	2.5
SSHS-GS3-3	4-6	2.344
SSHS-B1189	4-6	2.05
SSHS-EN3-3	4-6	1.934
SSHS-B925	4-6	1.711
SSHS-W11-1	4-6	1.624
SSHS-B928	4-6	1.561
SSHS-B962	4-6	1.556
SSHS-B972	4-6	1.343
SSHS-W11-2	4-6	1.291
SSHS-nat_gas_2	4-6	1.211
SSHS-B975	4-6	1.124
SSHS-GS3-2	4-6	1.077
SSHS-SN4-2	4-6	0.9335
SSHS-EN1-1	4-6	0.9123
SSHS-W12-2	4-6	0.8738
SSHS-SW-005	4-6	0.8536
SSHS-B387	4-6	0.774
SSHS-B970	4-6	0.7553
SSHS-EN4-2	4-6	0.6294
SSHS-nat_gas_1	4-6	0.4818
SSHS-B895	4-6	0.3481
SSHS-W6-1	4-6	0.2702
SSHS-B984	4-6	0.2625
SSHS-B1194	4-6	0.161
SSHS-B876	4-6	0.1101
SSHS-B1203	4-6	0.1099
SSHS-B1240	4-6	0.0981
SSHS-B853	4-6	0.0687
SSHS-B556	4-6	0.0455

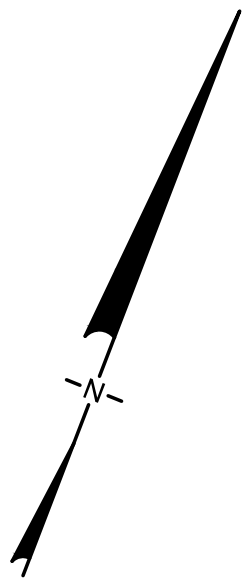
NOTES:

- THE IRM SOIL CLEANUP GOAL BELOW 2 FT BGS WAS 10 MG/KG.
- METALS RESULTS ARE SHOWN ONLY FOR METAL CONSTITUENTS WITH AT LEAST ONE EXCEEDANCE OF RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVES (6 NYCRR PART 375-6).



4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
Beech and Bonaparte engineering p.c. an affiliate of Geosyntec Consultants				
TITLE: 2-4 FEET EXCAVATION				
PROJECT: INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
SIGNATURE 2/3/2021 DATE		DESIGN BY: AK DATE: JUNE 2020 DRAWN BY: TSJ PROJECT NO.: MN0832D CHECKED BY: JMT FILE: MN0832D102-10 REVIEWED BY: PLB FIGURE NO.: APPROVED BY: AK		
4		OF 13		

AS-BUILT DRAWING



NOTES:

RESIDUAL METALS SHOWN IN BOLD
(>200X TCLP LEAD OR > 20X TCLP FOR
OTHER METALS)

TCLP - TOXICITY CHARACTERISTIC LEACHING
PROCEDURE

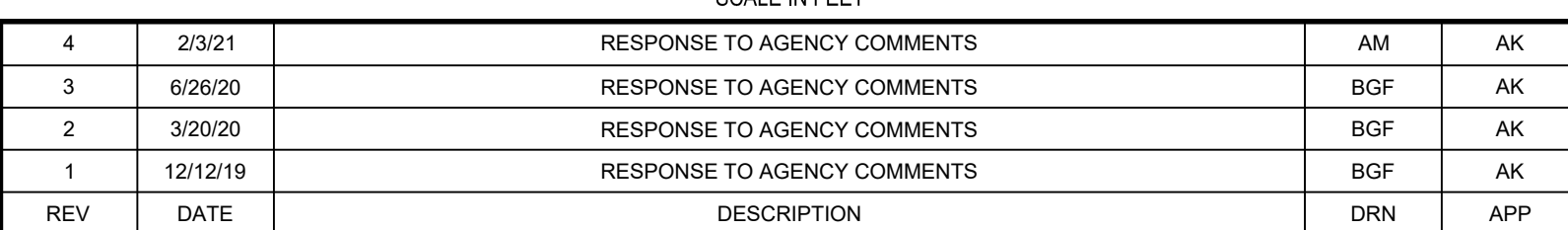
NOTES:

PCBS REMAINING IN PLACE SHOWN IN ITALIC:
(>SUBSURFACE CLEANUP GOAL OF 10MG/KG)

RESIDUAL PCBS SHOWN IN BOLD
(= NYSDH HAZARDOUS WASTE (50MG/KG))

NOTES:

1. THE IRM SOIL CLEANUP GOAL BELOW 2 FT BGS WAS 10 MG/KG.
2. METALS RESULTS ARE SHOWN ONLY FOR METAL CONSTITUENTS WITH AT LEAST ONE EXCEEDANCE OF RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVES (6 NYCRR PART 375-6).



UNISYS

TITLE:	4-6 FEET EXCAVATION		
PROJECT:	INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS		
SITE:	FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK		

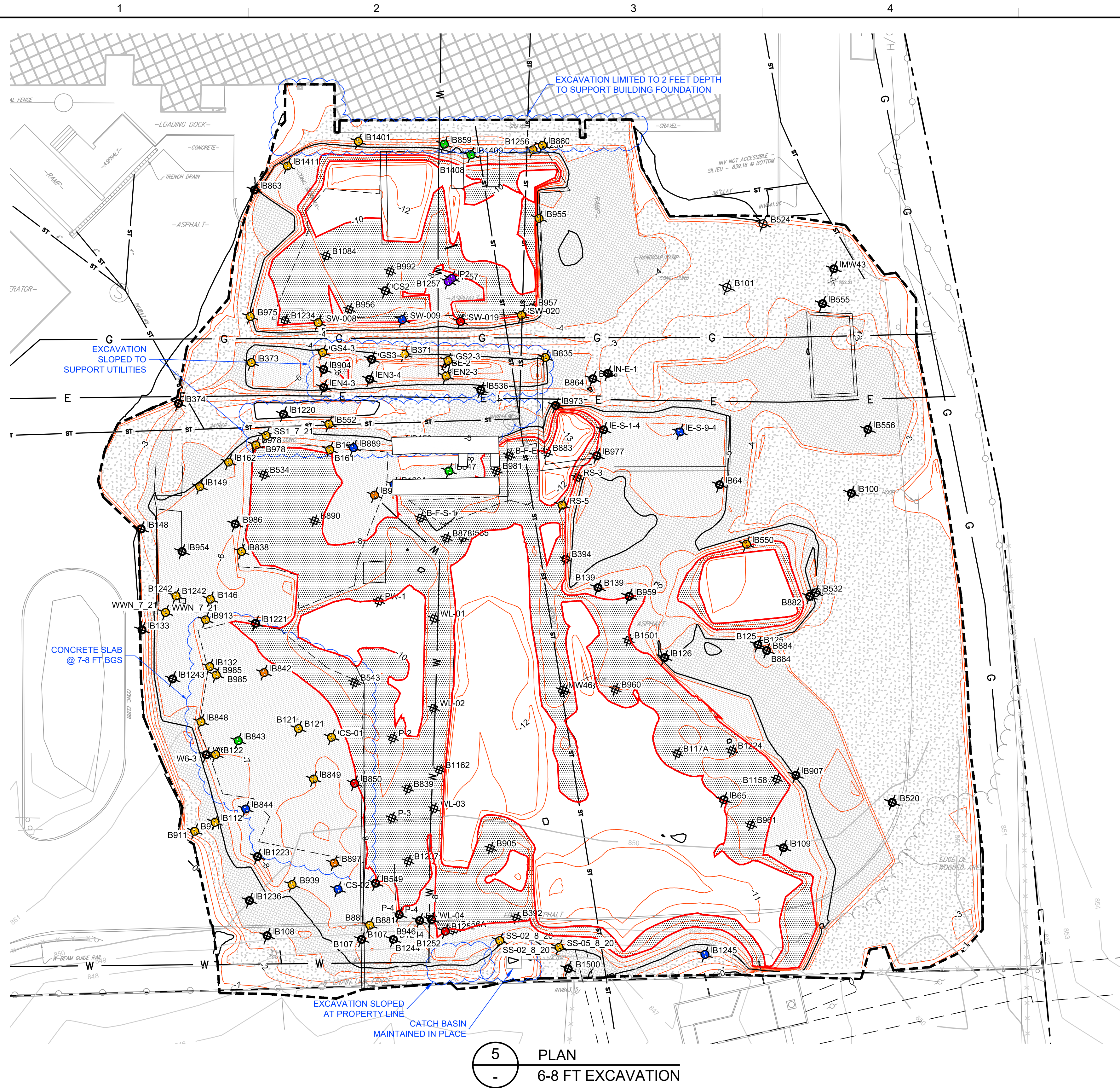
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		DRAWN BY:	TSJ	PROJECT NO.:	MN0832D
		CHECKED BY:	JMT	FILE:	MN0832D102-10
		REVIEWED BY:	PLB	FIGURE NO.:	
		APPROVED BY:	AK	5	OF

AS-BUILT DRAWING

NOTES:

1. SEE SHEET 2 FOR GENERAL NOTES.
2. EXCAVATION ISOPACH DEVELOPED FROM AS-BUILT SUBGRADE ELEVATIONS BASED ON SURVEY OF SUBGRADE REMEDIATION AREA DATED 6 OCTOBER 2018 AND REVISED 6 NOVEMBER 2018 AND SURVEY OF REMEDIATION AREA EXISTING GRADE DATED 19 JUNE 2018 BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS.
3. EXCAVATION AREAS BASED ON CONSTRUCTION DRAWINGS INCLUDED IN REVISED FINAL IRM #2 WORK PLAN DATED 13 JULY 2018 AND APPROVED BY NYSDEC ON 25 JULY 2018.
4. BENCHING AND SLOPING OF EXCAVATION WAS USED TO SUPPORT EXCAVATION AND UTILITIES IN ACCORDANCE WITH AMENDMENT #2 TO REVISED FINAL IRM #2 WORK PLAN DATED 16 JULY 2018 AND ACCEPTED BY NYSDEC ON 31 JULY 2018.
5. AS-BUILT EXCAVATION DID NOT ACHIEVE DESIGN DEPTHS IN AREAS NOTED DUE TO SUBSURFACE CONCRETE STRUCTURES ENCOUNTERED AND REQUIREMENTS FOR EXCAVATION AND UTILITY SUPPORT IN ACCORDANCE WITH AMENDMENT #2.

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LEGEND

	PRE-DELINEATION CONFIRMATION SAMPLE		EXCAVATION LIMITS		BOTTOM OF EXCAVATION/DEMARCATION LAYER 0-2 FEET EXCAVATION
	MAN-HOLE CATCH		MAJOR ISOPACH CONTOUR		BOTTOM OF EXCAVATION/DEMARCATION LAYER 2-4 FEET EXCAVATION
	Basin Culvert		MINOR ISOPACH CONTOUR		BOTTOM OF EXCAVATION/DEMARCATION LAYER 4-6 FEET EXCAVATION
	PIPE		CONCRETE STONE SLAB		BOTTOM OF EXCAVATION/DEMARCATION LAYER 6-8 FEET EXCAVATION
	CHAIN LINK FENCE		RESIDUAL COPCs IN PLACE		
	GUARD RAIL		TOTAL PCBs > 50 MG/KG		
	PROPERTY LINE		TOTAL PCBs > 40 AND < 50		
	EXISTING CONTOUR LINE		TOTAL PCBs > 30 AND < 40		
	EDGE OF WATER		TOTAL PCBs > 20 AND < 30		
	BURIED ELECTRIC CABLE		TOTAL PCBs > 10 AND < 20		
	SANITARY SEWER		TOTAL PCBs > 1 AND < 10		
	STORM SEWER		NO COPC EXCEEDANCE		
	NATURAL GAS LINE		BOTTOM SAMPLE		
	WATER LINE				
	AS-BUILT LIMIT OF 6-8 FT EXCAVATION				

NOTES:

- SEE SHEET 2 FOR GENERAL NOTES.
- EXCAVATION ISOPACH DEVELOPED FROM AS-BUILT SUBGRADE ELEVATIONS BASED ON SURVEY OF SUB GRADE REMEDIATION AREA DATED 6 OCTOBER 2018 AND REVISED 6 NOVEMBER 2018 AND SURVEY OF REMEDIATION AREA EXISTING GRADE DATED 19 JUNE 2018 BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS.
- EXCAVATION AREAS BASED ON CONSTRUCTION DRAWINGS INCLUDED IN REVISED FINAL IRM #2 WORK PLAN DATED 13 JULY 2018 AND APPROVED BY NYSDEC ON 25 JULY 2018.
- BENCHING AND SLOPING OF EXCAVATION WAS USED TO SUPPORT EXCAVATION AND UTILITIES IN ACCORDANCE WITH AMENDMENT #2 TO REVISED FINAL IRM #2 WORK PLAN DATED 16 JULY 2018 AND ACCEPTED BY NYSDEC ON 31 JULY 2018.
- AS-BUILT EXCAVATION DID NOT ACHIEVE DESIGN DEPTHS IN AREAS NOTED DUE TO SUBSURFACE CONCRETE STRUCTURES ENCOUNTERED AND REQUIREMENTS FOR EXCAVATION AND UTILITY SUPPORT IN ACCORDANCE WITH AMENDMENT #2.

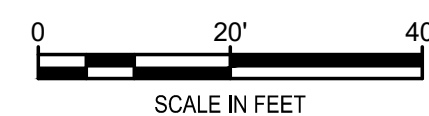
COPCs REMAINING (6-8 FT BGS)

Boring ID	Depth Interval (ft bgs)	PCB Concentration (mg/kg)
SSHS-P2	7.7-7.7	107.5
SSHS-B1257	6-8	63.92
SSHS-B850	6-8	49.64
SSHS-SW-019	6-8	48.7
SSHS-B1252	6-8	43.52
SSHS-B906	6-8	39.11
SSHS-B997	6-8	34.58
SSHS-B842	6-8	33.51
SSHS-B1408	6-8	29.82
SSHS-B859	6-8	29.01
SSHS-B843	6-8	27.22
SSHS-B847	6-8	25.86
SSHS-B159	6-8	21.92
SSHS-B1245	6-8	19.64
SSHS-B844	6-8	18.04
SSHS-SW-009	6-8	17.13
SSHS-CS-02	6.4-6.4	13.87
SSHS-B160A	6-8	13.07
SSHS-E-S-9.4	6.5-6.5	13.05
SSHS-B889	6-8	12.05
SSHS-B112	6-7	8.64
SSHS-SW-020	6-8	8.594
SSHS-B371	6-8	8.481
SSHS-B849	6-8	8.1
SSHS-B1401	6-8	7.191
SSHS-B985	6-8	6.996
SSHS-SW-008	6-8	6.321
SSHS-B146	6-8	6.27
SSHS-B835	6-8	6.091
SSHS-B913	6-8	5.856
SSHS-B838	6-8	5.501
SSHS-B132	6-7	5.48
SSHS-CS-01	7.3-7.3	5.351
SSHS-EN2-3	7.6-7.6	4.926
SSHS-B162	6-8	4.15
SSHS-B122	6-7	3.93
SSHS-B860	6-8	3.859
SSHS-B1411	6-8	3.711
SSHS-B848	6-8	3.329
SSHS-B978	6-8	3.231
SSHS-B950	6-8	3.058
SSHS-B939	6-8	3.013
SSHS-B911	6-8	2.731
SSHS-B881	6-8	2.684
SSHS-SS1 7 21	6-6	2.581
SSHS-B955	6-8	2.561
SSHS-B373	6-8	2.54
SSHS-SS-05 8 20	6-8	2.317
SSHS-GS4 3	6-6	2.315
SSHS-GS2 3	6.6-6.6	2.05
SSHS-B1242	6-8	1.974
SSHS-B149	6-8	1.53
SSHS-B975	6-8	1.522
SSHS-RS-5	6.6-6.6	1.41
SSHS-B1409	6-8	1.389
SSHS-B161	6-8	1.27
SSHS-B552	6-8	1.252
SSHS-WWN 7 21	6.5-6.5	1.251
SSHS-B1256	6-8	1.122
SSHS-B121	6-7	1.035
SSHS-B1223	6-8	0.9947
SSHS-B1243	6-8	0.9511
SSHS-B954	6-8	0.9413
SSHS-B863	6-8	0.881
SSHS-B973	6-8	0.863
SSHS-EN3-4	6.9-6.9	0.8463
SSHS-B977	6-8	0.8425
SSHS-B1236	6-8	0.7859
SSHS-B1220	6-8	0.6512
SSHS-W6-3	6.2-6.2	0.6294
SSHS-N-E-1	6.7-6.7	0.5992
SSHS-B1221	6-8	0.5357
SSHS-B556	6-8	0.512
SSHS-B986	6-8	0.4889
SSHS-B549	6-8	0.4749
SSHS-B904	6-8	0.4637
SSHS-B108	6-8	0.44
SSHS-E-S-1.4	6.2-6.2	0.4175
SSHS-EN4-3	6.1-6.1	0.4108
SSHS-GS3-4	6.5-6.5	0.4055
SSHS-B864	6-8	0.3833
SSHS-B882	6-8	0.3524
SSHS-B536	6-8	0.3182
SSHS-B946	6-8	0.266
SSHS-WL-04	7.8-7.8	0.2377
SSHS-B374	6-8	0.234
SSHS-B884	6-8	0.2051
SSHS-B1500	6-8	0.1699
SSHS-P-4	7.7-7.7	0.1655
SSHS-B959	6-8	0.152
SSHS-B64	6-9	0.13
SSHS-B1244	6-8	0.1295
SSHS-B555	6-8	0.04
SSHS-B107	6-8	0.015
SSHS-MW43	6-7	0.011
SSHS-B126	6-8	0.007
SSHS-B907	6-8	<0.0954
SSHS-B532	6-8	<0.0636
SSHS-B520	6-8	<0.0612
SSHS-B550	6-8	<0.0593
SSHS-B100	6-10	<0
SSHS-B109	6-8	<0
SSHS-B125	6-8	<0
SSHS-B133	6-8	<0
SSHS-B139	6-8	<0
SSHS-B148	6-8	<0

BOTTOM		
Boring ID	Depth Interval (ft bgs)	PCB Concentration (mg/kg)
SSHS-B883	8-10	95.39
SSHS-B992	8-10	59.72
SSHS-B117A	8-10	22.14
SSHS-B1253	8-10	15.11
SSHS-B1224	8-10	14.73
SSHS-B543	8-10	11.04
SSHS-B957	8-10	10.02
SSHS-B-F-E-3	8-10	7.661
SSHS-BE-2	8-10	7.541
SSHS-B534	8-10	5.99
SSHS-B961	8-10	5.704
SSHS-B905	8-10	5.561
SSHS-B960	8-10	5.014
SSHS-B106A	8-10	4.494
SSHS-B956	8-10	4.429
SSHS-B1234	8-10	3.939
SSHS-B1237	8-10	3.551
SSHS-B394	8-10	3.125
SSHS-B890	8-10	3.061
SSHS-CS2	8-10	2.859
SSHS-B65	8-10	2.17
SSHS-WL-01	8-10	1.571
SSHS-B981	8-10	1.462
SSHS-B392	8-10	1.395
SSHS-B1084	8-10	1.187
SSHS-RS-3	8-10	1.16
SSHS-WL-03	8-10	0.9446
SSHS-PW-1	8-10	0.8967
SSHS-B-F-S-1	8-10	0.6749
SSHS-B535	8-10	0.4948
SSHS-P-3	8-10	0.4735
SSHS-B1162	8-10	0.3838
SSHS-B878	8-10	0.3644
SSHS-P-2	8-10	0.2326
SSHS-WL-02	8-10	0.2247
SSHS-B839	8-10	0.117
SSHS-B1158	8-10	0.1002
SSHS-B1501	8-10	0.06945
SSHS-MW46	8-10	0.0671

NOTES:

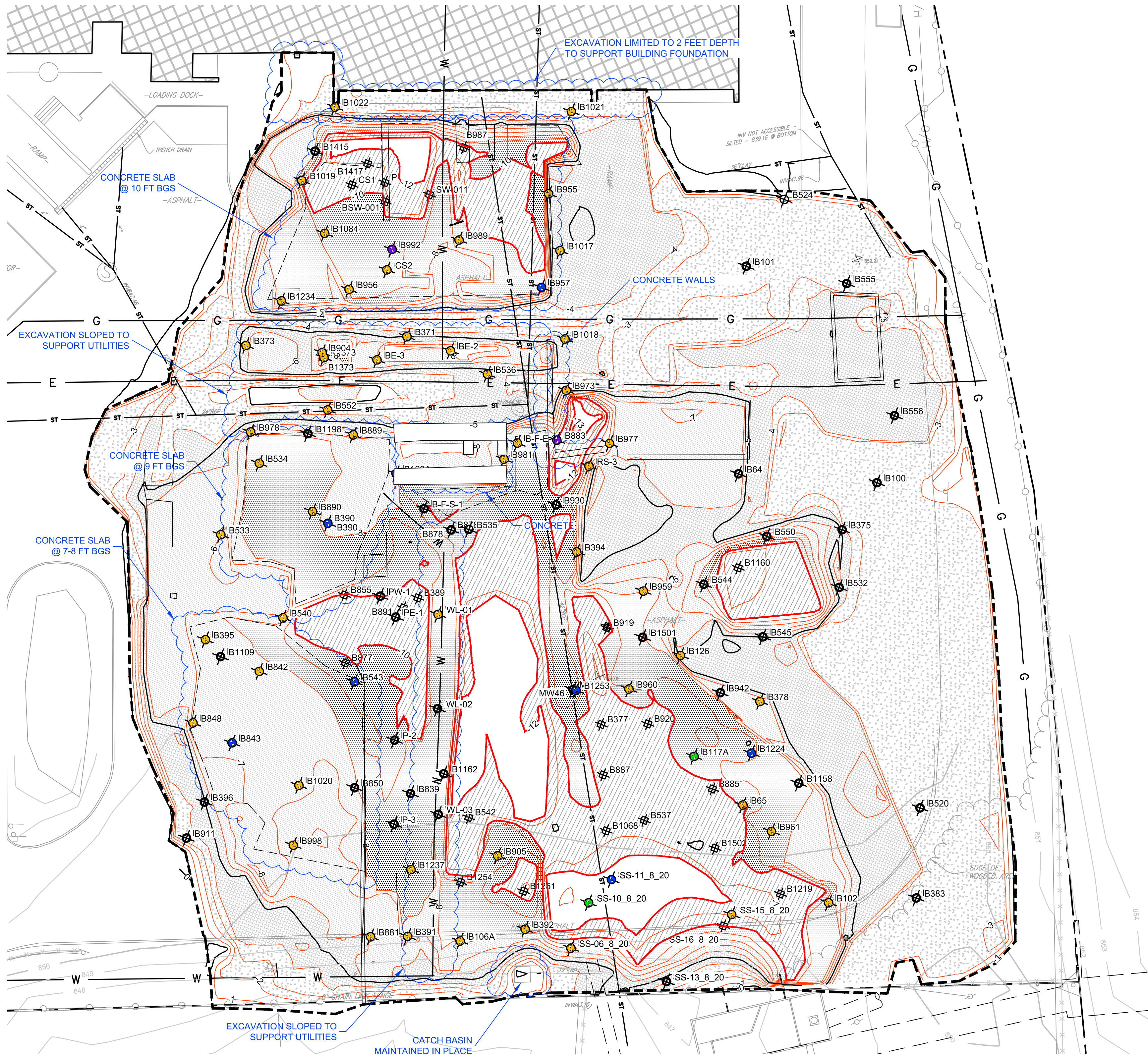
- THE IRM SOIL CLEANUP GOAL BELOW 2 FT BGS WAS 10 MG/KG.
- METALS RESULTS ARE SHOWN ONLY FOR METAL CONSTITUENTS WITH AT LEAST ONE EXCEEDANCE OF RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVES (6 NYCRR PART 375-6).



4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
Beech and Bonaparte engineering p.c. <i>an affiliate of Geosyntec Consultants</i> UNISYS				
TITLE: 6-8 FEET EXCAVATION				
PROJECT: INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
Signature of Adam Kongsdal 2/3/2021 DATE		DESIGN BY: AK CHECKED BY: JMT REVIEWED BY: PLB APPROVED BY: AK		
STATE OF NEW YORK SEAL OF THE STATE ENGINEER ADAM KONGSDAL 089954-1 LICENSED PROFESSIONAL ENGINEER		DATE: JUNE 2020 PROJECT NO.: MN0832D FILE: MN0832D102-10 FIGURE NO.: 6 OF 13		

AS-BUILT DRAWING

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6 PLAN
8-10 FT EXCAVATION

LEGEND			
	PRE-DELINEATION CONFIRMATION SAMPLE		EXCAVATION LIMITS
	MAN-HOLE CATCH		MAJOR ISOPACH CONTOUR
	BASIN CULVERT		MINOR ISOPACH CONTOUR
	PIPE		CONCRETE STONE SLAB
	CHAIN LINK FENCE		RESIDUAL COPCs IN PLACE
	GUARD RAIL		COPCs REMAINING IN PLACE
	PROPERTY LINE		TOTAL PCBs > 50 MG/KG
	EXISTING CONTOUR LINE		TOTAL PCBs > 40 AND < 50
	EDGE OF WATER		TOTAL PCBs > 30 AND < 40
	BURIED ELECTRIC CABLE		TOTAL PCBs > 20 AND < 30
	SANITARY SEWER		TOTAL PCBs > 10 AND < 20
	STORM SEWER		TOTAL PCBs > 1 AND < 10
	NATURAL GAS LINE		NO COPC EXCEEDANCE
	WATER LINE		BOTTOM SAMPLE
	AS-BUILT LIMIT OF 8-10 FT EXCAVATION		

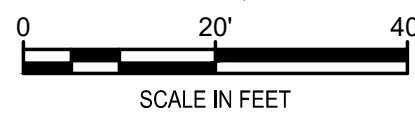
- NOTES:
- SEE SHEET 2 FOR GENERAL NOTES.
 - EXCAVATION ISOPACH DEVELOPED FROM AS-BUILT SUBGRADE ELEVATIONS BASED ON SURVEY OF SUB GRADE REMEDIATION AREA DATED 6 OCTOBER 2018 AND REVISED 6 NOVEMBER 2018 AND SURVEY OF REMEDIATION AREA EXISTING GRADE DATED 19 JUNE 2018 BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS.
 - EXCAVATION AREAS BASED ON CONSTRUCTION DRAWINGS INCLUDED IN REVISED FINAL IRM #2 WORK PLAN DATED 13 JULY 2018 AND APPROVED BY NYSDEC ON 25 JULY 2018.
 - BENCHING AND SLOPING OF EXCAVATION WAS USED TO SUPPORT EXCAVATION AND UTILITIES IN ACCORDANCE WITH AMENDMENT #2 TO REVISED FINAL IRM #2 WORK PLAN DATED 16 JULY 2018 AND ACCEPTED BY NYSDEC ON 31 JULY 2018.
 - AS-BUILT EXCAVATION DID NOT ACHIEVE DESIGN DEPTHS IN AREAS NOTED DUE TO SUBSURFACE CONCRETE STRUCTURES ENCOUNTERED AND REQUIREMENTS FOR EXCAVATION AND UTILITY SUPPORT IN ACCORDANCE WITH AMENDMENT #2.

COPCs REMAINING (8-10 FT BGS)		
Boring ID	Depth Interval (ft bgs)	PCB Concentration (mg/kg)
SSHS-B883	8-10	95.39
SSHS-B992	8-10	59.72
SSHS-SS-10_8_2	8-10	22.64
SSHS-B117A	8-10	22.14
SSHS-B1253	8-10	15.11
SSHS-B1224	8-10	14.73
SSHS-B390	8-10	13.07
SSHS-B160A	8-10	12.13
SSHS-SS-11_8_2	8-10	12.01
SSHS-B843	8-10	11.68
SSHS-B543	8-10	11.04
SSHS-B957	8-10	10.02
SSHS-B904	8-10	9.081
SSHS-B371	8-10	8.25
SSHS-B-F-E-3	8.8-8.8	7.661
SSHS-BE-2	8.2-8.2	7.541
SSHS-B881	8-10	6.451
SSHS-B102	8-10	6.28
SSHS-B378	8-10	6.15
SSHS-B989	8-10	6.134
SSHS-B534	8-10	5.99
SSHS-B842	8-10	5.942
SSHS-B961	8-10	5.704
SSHS-B905	8-10	5.561
SSHS-B126	8-10	5.02
SSHS-B960	8-10	5.014
SSHS-B1022	8-10	4.811
SSHS-B106A	8-10	4.494
SSHS-B956	8-10	4.429
SSHS-B1234	8-10	3.939
SSHS-B1019	8-10	3.801
SSHS-B1237	8-10	3.551
SSHS-B978	8-10	3.191
SSHS-B533	8-10	3.161
SSHS-B394	8-10	3.125
SSHS-B889	8-10	3.11
SSHS-B890	8-10	3.081
SSHS-CS2	9.1-9.1	2.859
SSHS-B395	8-10	2.83
SSHS-B973	8-10	2.76
SSHS-B1373	8-10	2.545
SSHS-B1021	8-10	2.238
SSHS-B65	8-10	2.17
SSHS-B373	8-10	2.08
SSHS-B848	8-10	1.958
SSHS-B955	8-10	1.931
SSHS-B536	8-10	1.913
SSHS-B540	8-10	1.885
SSHS-B1020	8-10	1.755
SSHS-B391	8-10	1.642
SSHS-VVL-01	8.4-8.4	1.571
SSHS-B959	8-10	1.556
SSHS-B552	8-10	1.518
SSHS-BE-3	8.3-8.3	1.516
SSHS-B977	8-10	1.47
SSHS-B981	8-10	1.462
SSHS-SS-06_8_2	8-10	1.433
SSHS-B392	8-10	1.395
SSHS-B998	8-10	1.355
SSHS-B1017	8-10	1.351
SSHS-B1018	8-10	1.32
SSHS-B1084	8-10	1.187
SSHS-RS-3	8.6-8.6	1.16
SSHS-SS-15_8_2	8-10	1.102
SSHS-VL-03	8.3-8.3	0.9446
SSHS-PW-1	9.2-9.2	0.8967
SSHS-B550	8-10	0.8458
SSHS-B1415	8-10	0.8388
SSHS-B520	8-10	0.6801
SSHS-B-F-S-1	9.7-9.7	0.6749
SSHS-B1198	8-10	0.6037
SSHS-B556	8-10	0.5785
SSHS-B101	8-10	0.543
SSHS-B535	8-10	0.4948
SSHS-P-3	8.5-8.5	0.4735
SSHS-B1162	8-10	0.3838
SSHS-B878	8-10	0.3644
SSHS-B396	8-10	0.362
SSHS-B850	8-10	0.3426
SSHS-B532	8-10	0.2865
SSHS-PE-1	9.3-9.3	0.2604
SSHS-P-2	8.8-8.8	0.2326
SSHS-VL-02	8.6-8.6	0.2247
SSHS-B1109	8-10	0.1709
SSHS-B544	8-10	0.1452
SSHS-B545	8-10	0.1395
SSHS-B375	8-10	0.139
SSHS-B64	6-9	0.13
SSHS-B839	8-10	0.117
SSHS-B942	8-10	0.08225
SSHS-B1501	8-10	0.06945
SSHS-B930	8-10	0.05645
SSHS-B555	8-10	0.0519
SSHS-SS-13_8_2	8-10	<0.1016
SSHS-B911	8-10	<0.1005
SSHS-B1158	8-10	<0.1002
SSHS-MW46	8-10	<0.0671
SSHS-B100	6-10	<0
SSHS-B383	8-10	<0

COPCs REMAINING (8-10 FT BGS)		
Boring ID	Depth Interval (ft bgs)	PCB Concentration (mg/kg)
SSHS-B883	8-10	95.39
SSHS-B992	8-10	59.72
SSHS-SS-10_8_2	8-10	22.64
SSHS-B117A	8-10	22.14
SSHS-B1253	8-10	15.11
SSHS-B1224	8-10	14.73
SSHS-B390	8-10	13.07
SSHS-B160A	8-10	12.13
SSHS-SS-11_8_2	8-10	12.01
SSHS-B843	8-10	11.68
SSHS-B543	8-10	11.04
SSHS-B957	8-10	10.02
SSHS-B904	8-10	9.081
SSHS-B371	8-10	8.25
SSHS-B-F-E-3	8.8-8.8	7.661
SSHS-BE-2	8.2-8.2	7.541
SSHS-B881	8-10	6.451
SSHS-B102	8-10	6.28
SSHS-B378	8-10	6.15
SSHS-B989	8-10	6.134
SSHS-B534	8-10	5.99
SSHS-B842	8-10	5.942
SSHS-B961	8-10	5.704
SSHS-B905	8-10	5.561
SSHS-B126	8-10	5.02
SSHS-B960	8-10	5.014
SSHS-B1022	8-10	4.811
SSHS-B106A	8-10	4.494
SSHS-B956	8-10	4.429
SSHS-B1234	8-10	3.939
SSHS-B1019	8-10	3.801
SSHS-B1237	8-10	3.551
SSHS-B978	8-10	3.191
SSHS-B533	8-10	3.161
SSHS-B394	8-10	3.125
SSHS-B889	8-10	3.11
SSHS-B890	8-10	3.081
SSHS-CS2	9.1-9.1	2.859
SSHS-B395	8-10	2.83
SSHS-B973	8-10	2.76
SSHS-B1373	8-10	2.545
SSHS-B1021	8-10	2.238
SSHS-B65	8-10	2.17
SSHS-B373	8-10	2.08
SSHS-B848	8-10	1.958
SSHS-B955	8-10	1.931
SSHS-B536	8-10	1.913
SSHS-B540	8-10	1.885
SSHS-B1020	8-10	1.755
SSHS-B391	8-10	1.642
SSHS-VVL-01	8.4-8.4	1.571
SSHS-B959	8-10	1.556
SSHS-B552	8-10	1.518
SSHS-BE-3	8.3-8.3	1.516
SSHS-B977	8-10	1.47
SSHS-B981	8-10	1.462
SSHS-SS-06_8_2	8-10	1.433
SSHS-B392	8-10	1.395
SSHS-B998	8-10	1.355
SSHS-B1017	8-10	1.351
SSHS-B1018	8-10	1.32
SSHS-B1084	8-10	1.187
SSHS-RS-3	8.6-8.6	1.16
SSHS-SS-15_8_2	8-10	1.102
SSHS-VL-03	8.3-8.3	0.9446
SSHS-PW-1	9.2-9.2	0.8967
SSHS-B550	8-10	0.8458
SSHS-B1415	8-10	0.8388
SSHS-B520	8-10	0.6801
SSHS-B-F-S-1	9.7-9.7	0.6749
SSHS-B1198	8-10	0.6037
SSHS-B556	8-10	0.5785
SSHS-B101	8-10	0.543
SSHS-B535	8-10	0.4948
SSHS-P-3	8.5-8.5	0.4735
SSHS-B1162	8-10	0.3838
SSHS-B878	8-10	0.3644
SSHS-B396	8-10	0.362
SSHS-B850	8-10	0.3426
SSHS-B532	8-10	0.2865
SSHS-PE-1	9.3-9.3	0.2604
SSHS-P-2	8.8-8.8	0.2326
SSHS-VL-02	8.6-8.6	0.2247
SSHS-B1109	8-10	0.1709
SSHS-B544	8-10	0.1452
SSHS-B545	8-10	0.1395
SSHS-B375	8-10	0.139
SSHS-B64	6-9	0.13
SSHS-B839	8-10	0.117
SSHS-B942	8-10	0.08225
SSHS-B1501	8-10	0.06945
SSHS-B930	8-10	0.05645
SSHS-B555	8-10	0.0519
SSHS-SS-13_8_2	8-10	<0.1016
SSHS-B911	8-10	<0.1005
SSHS-B1158	8-10	<0.1002
SSHS-MW46	8-10	<0.0671
SSHS-B100	6-10	<0
SSHS-B383	8-10	<0

BOTTOM		
Boring ID	Depth Interval (ft bgs)	PCB Concentration (mg/kg)
SSHS-P1	10-12	168.7
SSHS-B1417	10-12	40.82
SSHS-SW011	10-12	40.87
SSHS-CS1	10-12	24.18
SSHS-BSW-001	10-12	18.04
SSHS-B920	10-12	7.293
SSHS-B885	10-12	5.601
SSHS-B987	10-12	4.261
SSHS-B887	10-12	2.961
SSHS-B1068	10-12	2.687
SSHS-B919	10-12	2.281
SSHS-B977	10-12	2.101
SSHS-B855	10-12	1.529
SSHS-B377	10-12	0.744
SSHS-B1254	10-12	0.5337
SSHS-B891	10-12	0.3043
SSHS-B878	10-12	0.1635
SSHS-SS-16_8_20	10-12	0.1078
SSHS-B1219	10-12	0.0958
SSHS-B537	10-12	0.0765
SSHS-B1502	10-12	0.06925
SSHS-B538	10-12	0.0541
SSHS-B1160	10-12	0.06035
SSHS-B542	10-12	0.0593
SSHS-B389	10-12	0.0084
SSHS-B1251	10-12	<0.1029

- NOTES:
- THE IRM SOIL CLEANUP GOAL BELOW 2 FT BGS WAS 10 MG/KG.
 - METALS RESULTS ARE SHOWN ONLY FOR METAL CONSTITUENTS WITH AT LEAST ONE EXCEEDANCE OF RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVES (6 NYCRR PART 375-6).



4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
Beech and Bonaparte engineering p.c. an affiliate of Geosyntec Consultants				
TITLE: 8-10 FEET EXCAVATION				
PROJECT: INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
DESIGN BY: AK		DATE: JUNE 2020		
DRAWN BY: TSJ		PROJECT NO.: MN0832D		
CHECKED BY: JMT		FILE: MN0832D102-10		
REVIEWED BY: PLB		FIGURE NO.: 13		
APPROVED BY: AK		7 OF 13		

AS-BUILT DRAWING

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LEGEND

	PRE-DELINEATION CONFIRMATION SAMPLE		EXCAVATION LIMITS		BOTTOM OF EXCAVATION/DEMARCATION LAYER 0-2 FEET EXCAVATION
	MANHOLE CATCH		MAJOR ISOPACH CONTOUR		BOTTOM OF EXCAVATION/DEMARCATION LAYER 2-4 FEET EXCAVATION
	BASEIN CULVERT		MINOR ISOPACH CONTOUR		BOTTOM OF EXCAVATION/DEMARCATION LAYER 4-6 FEET EXCAVATION
	PIPE		CONCRETE STONE SLAB		BOTTOM OF EXCAVATION/DEMARCATION LAYER 6-8 FEET EXCAVATION
	CHAIN LINK FENCE		RESIDUAL COPCS IN PLACE		BOTTOM OF EXCAVATION/DEMARCATION LAYER 8-10 FEET EXCAVATION
	GUARD RAIL		COPCS REMAINING IN PLACE		BOTTOM OF EXCAVATION/DEMARCATION LAYER 10-12 FEET EXCAVATION
	PROPERTY LINE		TOTAL PCBS > 50 MG/KG		
	EXISTING CONTOUR LINE		TOTAL PCBS > 40 AND < 50		
	EDGE OF WATER OR BRUSH		TOTAL PCBS > 30 AND < 40		
	BURIED ELECTRIC CABLE		TOTAL PCBS > 20 AND < 30		
	SANITARY SEWER		TOTAL PCBS > 10 AND < 20		
	STORM SEWER		TOTAL PCBS > 1 AND < 10		
	NATURAL GAS LINE		NO COPC EXCEEDANCE		
	WATER LINE		BOTTOM SAMPLE		
	AS-BUILT LIMIT OF 10-12 FT EXCAVATION				

NOTES:

- SEE SHEET 2 FOR GENERAL NOTES.
- EXCAVATION ISOPACH DEVELOPED FROM AS-BUILT SUBGRADE ELEVATIONS BASED ON SURVEY OF SUB GRADE REMEDIATION AREA DATED 6 OCTOBER 2018 AND REVISED 6 NOVEMBER 2018 AND SURVEY OF REMEDIATION AREA EXISTING GRADE DATED 19 JUNE 2018 BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS.
- EXCAVATION AREAS BASED ON CONSTRUCTION DRAWINGS INCLUDED IN REVISED FINAL IRM #2 WORK PLAN DATED 13 JULY 2018 AND APPROVED BY NYSDEC ON 25 JULY 2018.
- BENCHING AND SLOPING OF EXCAVATION WAS USED TO SUPPORT EXCAVATION AND UTILITIES IN ACCORDANCE WITH AMENDMENT #2 TO REVISED FINAL IRM #2 WORK PLAN DATED 16 JULY 2018 AND ACCEPTED BY NYSDEC ON 31 JULY 2018.
- AS-BUILT EXCAVATION DID NOT ACHIEVE DESIGN DEPTHS IN AREAS NOTED DUE TO SUBSURFACE CONCRETE STRUCTURES ENCOUNTERED AND REQUIREMENTS FOR EXCAVATION AND UTILITY SUPPORT IN ACCORDANCE WITH AMENDMENT #2.

COPCs REMAINING (10-12 FT BGS)		
Boring ID	Depth Interval (ft bgs)	PCB Concentration (mg/kg)
SSHS-P1	10-12	168.7
SSHS-B890	10-12	118
SSHS-B883	10-12	62.84
SSHS-B839	10-12	52.62
SSHS-B1417	10-12	40.82
SSHS-SW-011	10-12	40.67
SSHS-CS1	10.3-10.3	24.18
SSHS-BSW-001	10-12	18.04
SSHS-B856	10-12	16.48
SSHS-B888	10-12	15.91
SSHS-B893	10-12	15.36
SSHS-MW46	10-12	12.81
SSHS-B886	10-12	11.82
SSHS-B842	10-12	9.529
SSHS-B843	10-12	8.284
SSHS-B850	10-12	7.943
SSHS-B979	10-12	7.377
SSHS-B920	10-12	7.293
SSHS-B991	10-12	6.336
SSHS-B838	10-12	6.191
SSHS-B977	10-12	5.763
SSHS-B885	10-12	5.601
SSHS-B1248	10-12	5.371
SSHS-B989	10-12	4.941
SSHS-B987	10-12	4.261
SSHS-B889	10-12	4.181
SSHS-B1247	10-12	4.042
SSHS-B1198	10-12	3.15
SSHS-B1021	10-12	3.109
SSHS-B1018	10-12	2.99
SSHS-B887	10-12	2.961
SSHS-B1017	10-12	2.851
SSHS-B1068	10-12	2.687
SSHS-B992	10-12	2.623
SSHS-B1204	10-12	2.281
SSHS-B919	10-12	2.281
SSHS-B1018	10-12	2.143
SSHS-B852	10-12	2.106
SSHS-B877	10-12	2.101
SSHS-B879	10-12	1.945
SSHS-B855	10-12	1.529
SSHS-B973	10-12	1.466
SSHS-SS-07_8_20	10-12	1.384
SSHS-B1418	10-12	1.317
SSHS-B1254	10-12	1.2
SSHS-B1086	10-12	0.9543
SSHS-SS-12_8_20	10-12	0.8495
SSHS-B377	10-12	0.744
SSHS-B981	10-12	0.7215
SSHS-B851	10-12	0.6693
SSHS-NSBW	10-12	0.5887
SSHS-B978	10-12	0.5837
SSHS-B958	10-12	0.5551
SSHS-B993	10-12	0.544
SSHS-B1254	10-12	0.5337
SSHS-B556	10-12	0.306
SSHS-B891	10-12	0.3043
SSHS-B1299	10-12	0.2789
SSHS-B1006	10-12	0.1989
SSHS-B878	10-12	0.1635
SSHS-C-E-P-1	10.1-10.1	0.1624
SSHS-B1010	10-12	0.1258
SSHS-B882	10-12	0.1136
SSHS-B948	10-12	0.1052
SSHS-B841	10-12	0.1029
SSHS-SS-14_8_20	10-12	0.0786
SSHS-B1016	10-12	0.07705
SSHS-B1502	10-12	0.06925
SSHS-B67	10-12	0.065
SSHS-MW42	10-11	0.0636
SSHS-B1160	10-12	0.06035
SSHS-B1252	10-12	0.059
SSHS-B1252	10-12	0.05345
SSHS-B555	10-12	0.03825
SSHS-B389	10-12	0.0084
SSHS-SS-16_8_20	10-12	<0.1078
SSHS-B1251	10-12	<0.1029
SSHS-B845	10-12	<0.1029
SSHS-B1219	10-12	<0.0958
SSHS-B1122	10-12	<0.0955
SSHS-B1249	10-12	<0.0929
SSHS-B537	10-12	<0.0765
SSHS-B543	10-12	<0.0675
SSHS-B538	10-12	<0.0641
SSHS-B545	10-12	<0.0602
SSHS-B542	10-12	<0.0593
SSHS-B100	10-13.5	<0
SSHS-B64	10-12	<0
SSHS-B65	10-12	<0

NOTES:

PCBS REMAINING IN PLACE SHOWN IN ITALICS
(>SUBSURFACE CLEANUP GOAL OF 10MG/KG)

RESIDUAL PCBS SHOWN IN BOLD
(>= NYS HAZARDOUS WASTE (50MG/KG))

AS-BUILT DRAWING

COPCs REMAINING (10-12 FT BGS)								
		Metals						
		Lead	Arsenic	Barium	Chromium (III+VI)	Copper	Mercury	Nickel
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Metals 20x TCLP Screening (Lead = 1000 ppb)		1000	100	2000	100		4	
Boring ID	Depth Interval (ft bgs)							
SSHS-CS1	10.3-10.3	170	10	150	20	150	0.53	200
SSHS-B100	10-13.5	13	8.2	81	15	15	<0.028U	198
SSHS-BSW-001	10-12	650	28	580	170	330	1.4	2000
SSHS-NSBW	10-12	14	5.3	56	8.4	28	0.1	37
SSHS-P1	10-12	210	10	400	17	780	8.8	34
SSHS-B1251	10-12	15	30	110	18	68	0.038U	12
SSHS-B1252	10-12	11	17	98	16	36	0.04U	15
SSHS-B1254	10-12	23	16	59	16	80	0.094U	23
SSHS-B1299	10-12	290	21	180	100	180	0.069	2000
SSHS-B520	10-12	10	10	70	13	32	0.031U	17
SSHS-B537	10-12	7.7	53	71	9.2	25	<0.008U	10
SSHS-B542	10-12	2100	61	76	13	95	0.046	24
SSHS-B64	10-12	12	9	72	14	15	<0.017U	19
SSHS-B65	10-12	15	51	93	118	22	<0.026U	8.8
SSHS-B67	10-12	7.2	49	82	118	41	<0.012U	8.7

NOTES:

RESIDUAL METALS SHOWN IN BOLD
(>200X TCLP LEAD OR > 20X TCLP FOR OTHER METALS)

TCLP - TOXICITY CHARACTERISTIC LEACHING PROCEDURE

BOTTOM		
Boring ID	Depth Interval (ft bgs)	PCB Concentration (mg/kg)
SSHS-B1008	12-14	36.37
SSHS-B856	12-14	7.023
SSHS-B893	12-14	5.085
SSHS-B1011	12-14	3.571
SSHS-B888	12-14	3.184
SSHS-B840	12-14	2.557
SSHS-B1303	12-14	2.313
SSHS-B841	12-14	1.761
SSHS-B892	12-14	1.586
SSHS-B980	12-14	1.431
SSHS-B973	12-14	0.7655
SSHS-B953	12-14	0.6239

NOTES:

- THE IRM SOIL CLEANUP GOAL BELOW 2 FT BGS WAS 10 MG/KG.
- METALS RESULTS ARE SHOWN ONLY FOR METAL CONSTITUENTS WITH AT LEAST ONE EXCEEDANCE OF RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVES (6 NYCRR PART 375-6).



4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP

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engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE:
PROJECT:
SITE:

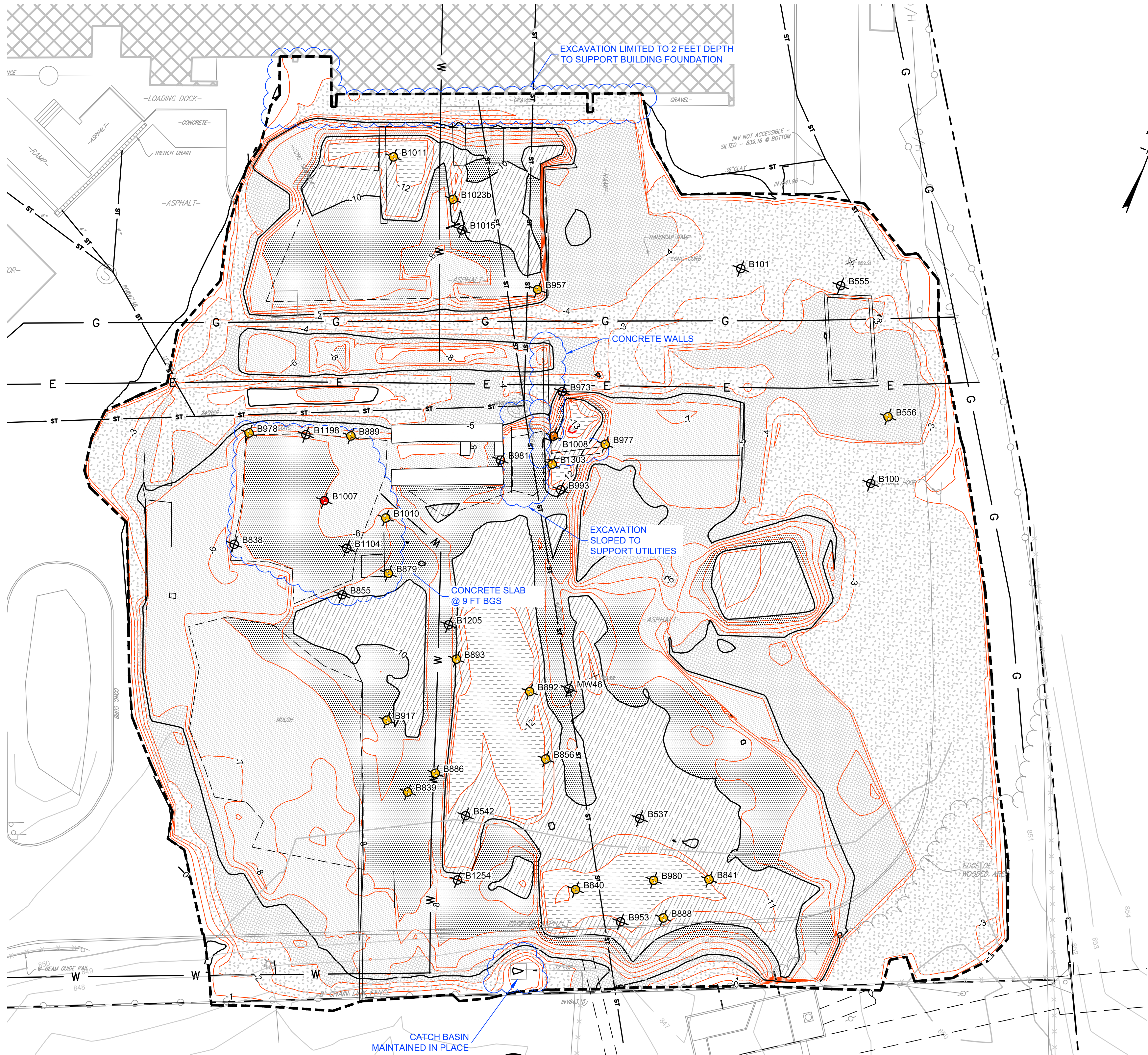
10-12 FEET EXCAVATION
INTERIM REMEDIATION MEASURE
AS-BUILT DRAWINGS
FORMER SPERRY-REMINGTON SITE - NORTH PORTION
ELMIRA, NEW YORK

SIGNATURE
2/3/2021
DATE

DESIGN BY: AK
DATE: JUNE 2020
DRAWN BY: TSJ
PROJECT NO.: MN0832D
CHECKED BY: JMT
FILE: MN0832D 102-10
REVIEWED BY: PLB
FIGURE NO.:
APPROVED BY: AK

8 OF 13

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8 PLAN
12-14 FT EXCAVATION

LEGEND			
	PRE-DELINEATION CONFIRMATION SAMPLE		EXCAVATION LIMITS
	MAN-HOLE CATCH		MAJOR ISOPACH CONTOUR
	BASIN CULVERT		MINOR ISOPACH CONTOUR
	PIPE		CONCRETE STONE SLAB
	CHAIN LINK FENCE		RESIDUAL COPCs IN PLACE
	GUARD RAIL		COPCs REMAINING IN PLACE
	PROPERTY LINE		TOTAL PCBs > 50 MG/KG
	EXISTING CONTOUR LINE		TOTAL PCBs > 40 AND < 50
	EDGE OF WATER		TOTAL PCBs > 30 AND < 40
	EDGE OF WOODS OR BRUSH		TOTAL PCBs > 20 AND < 30
	BURIED ELECTRIC CABLE		TOTAL PCBs > 10 AND < 20
	SANITARY SEWER		TOTAL PCBs > 1 AND < 10
	STORM SEWER		NO COPC EXCEEDANCE
	NATURAL GAS LINE		BOTTOM SAMPLE
	WATER LINE		
	AS-BUILT LIMIT OF 12-14 FT EXCAVATION		

- NOTES:
- SEE SHEET 2 FOR GENERAL NOTES.
 - EXCAVATION ISOPACH DEVELOPED FROM AS-BUILT SUBGRADE ELEVATIONS BASED ON SURVEY OF SUB GRADE REMEDIATION AREA DATED 6 OCTOBER 2018 AND REVISED 6 NOVEMBER 2018 AND SURVEY OF REMEDIATION AREA EXISTING GRADE DATED 19 JUNE 2018 BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS.
 - EXCAVATION AREAS BASED ON CONSTRUCTION DRAWINGS INCLUDED IN REVISED FINAL IRM #2 WORK PLAN DATED 13 JULY 2018 AND APPROVED BY NYSDEC ON 25 JULY 2018.
 - BENCHING AND SLOPING OF EXCAVATION WAS USED TO SUPPORT EXCAVATION AND UTILITIES IN ACCORDANCE WITH AMENDMENT #2 TO REVISED FINAL IRM #2 WORK PLAN DATED 16 JULY 2018 AND ACCEPTED BY NYSDEC ON 31 JULY 2018.
 - AS-BUILT EXCAVATION DID NOT ACHIEVE DESIGN DEPTHS IN AREAS NOTED DUE TO SUBSURFACE CONCRETE STRUCTURES ENCOUNTERED AND REQUIREMENTS FOR EXCAVATION AND UTILITY SUPPORT IN ACCORDANCE WITH AMENDMENT #2.

COPCs REMAINING (12-14 FT BGS)		
Boring ID	Depth Interval (ft bgs)	PCB Concentration (mg/kg)
SSHS-B1007	12-14	40.82
SSHS-B1008	12-14	36.37
SSHS-B957	12-14	8.015
SSHS-B856	12-14	7.023
SSHS-B977	12-14	6.633
SSHS-B886	12-14	5.812
SSHS-B1010	12-14	5.653
SSHS-B893	12-14	5.085
SSHS-B1023b	12-14	5.034
SSHS-B889	12-14	4.451
SSHS-B917	12-14	4.178
SSHS-B978	12-14	3.841
SSHS-B1011	12-14	3.571
SSHS-B888	12-14	3.184
SSHS-B839	12-14	2.953
SSHS-B840	12-14	2.557
SSHS-B879	12-14	2.513
SSHS-B1303	12-14	2.313
SSHS-B556	12-14	1.86
SSHS-B841	12-14	1.761
SSHS-B892	12-14	1.586
SSHS-B980	12-14	1.431
SSHS-B1015	12-14	0.8129
SSHS-B973	12-14	0.7655
SSHS-B953	12-14	0.6239
SSHS-B838	12-14	0.582
SSHS-B981	12-14	0.354
SSHS-B1254	12-14	0.31
SSHS-B855	12-14	0.2202
SSHS-B1254	12-14	0.1634
SSHS-B1198	12-14	0.1068
SSHS-B555	12-14	0.09735
SSHS-B993	12-14	0.07355
SSHS-MW46	12-14	0.05025
SSHS-B1205	12-14	<0.1047
SSHS-B1104	12-14	<0.0951
SSHS-B100	10-13.5	<0
SSHS-B101	12-15.5	<0

Metals		
Metal		Arsenic
mg/kg		mg/kg
Metals 20x TCLP Screening (Lead = 1000 ppb)		100
Sample ID	Depth Interval (ft bgs)	
SSHS-B1254	12-14	28
SSHS-B1303	12-14	9.1
SSHS-B537	12-14	38
SSHS-B542	12-14	57
SSHS-B101	12-15.5	5.6
SSHS-B100	10-13.5	8.2

NOTES:

RESIDUAL METALS SHOWN IN BOLD
(>200X TCLP LEAD OR > 20X TCLP FOR OTHER METALS)

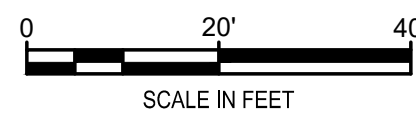
TCLP - TOXICITY CHARACTERISTIC LEACHING PROCEDURE

NOTES:

PCBS REMAINING IN PLACE SHOWN IN ITALICS
(>SUBSURFACE CLEANUP GOAL OF 10MG/KG)

RESIDUAL PCBs SHOWN IN BOLD
(>= NYS HAZARDOUS WASTE (50MG/KG))

- NOTES:
- THE IRM SOIL CLEANUP GOAL BELOW 2 FT BGS WAS 10 MG/KG.
 - METALS RESULTS ARE SHOWN ONLY FOR METAL CONSTITUENTS WITH AT LEAST ONE EXCEEDANCE OF RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVES (6 NYCRR PART 375-6).



4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP

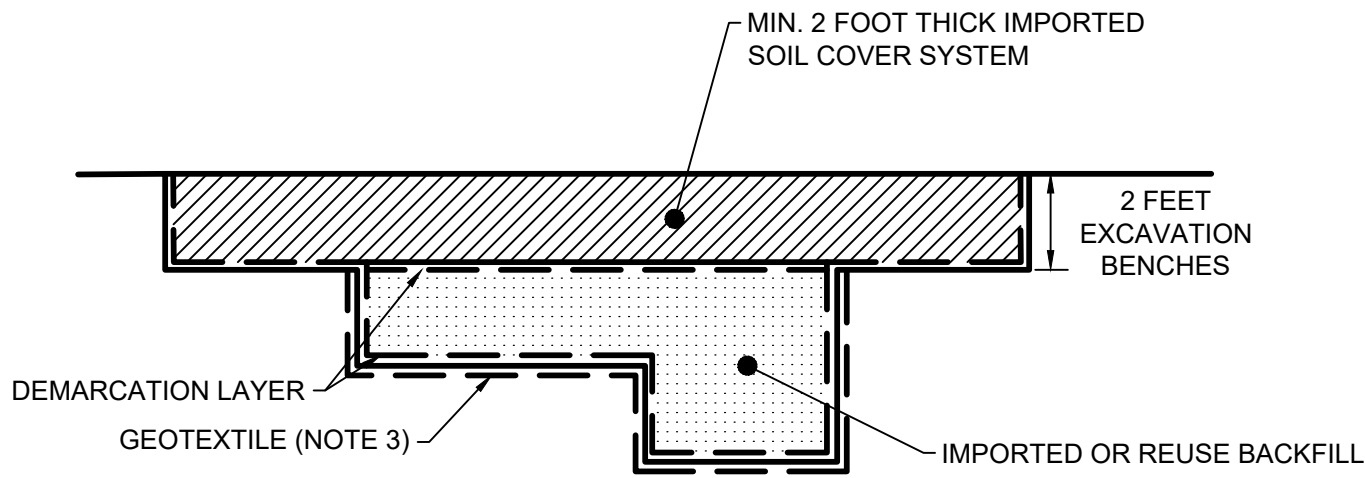
Beech and Bonaparte [®] engineering p.c. <i>an affiliate of Geosyntec Consultants</i>		UNISYS	
TITLE: 12-14 FEET EXCAVATION			
PROJECT: INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS			
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK			
 SIGNATURE 2/3/2021 DATE		DESIGN BY: AK	DATE: JUNE 2020
		DRAWN BY: TSJ	PROJECT NO.: MN0832D
		CHECKED BY: JMT	FILE: MN0832D102-10
		REVIEWED BY: PLB	FIGURE NO.:
		APPROVED BY: AK	9 OF 13

AS-BUILT DRAWING

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- LEGEND**
- MANHOLE CATCH
 - ⊗ BASIN CULVERT
 - 12" CMP — PIPE
 - CHAIN LINK FENCE
 - WOODEN FENCE
 - PROPERTY LINE
 - 90' — EXISTING CONTOUR LINE
 - EDGE OF WATER
 - EDGE OF WOODS OR BRUSH
 - E — BURIED ELECTRIC CABLE
 - SAN — SANITARY SEWER
 - ST — STORM SEWER
 - G — NATURAL GAS LINE
 - W — WATER LINE
 - LIMITS OF REUSE BACKFILL
 - 6' ● DEPTH TO REUSE BACKFILL
 - 2' ○ DEPTH OF IMPORTED BACKFILL



10 SECTION
AS-BUILT SOIL COVER SYSTEM

- NOTES:**
1. FINAL GRADE ELEVATIONS BASED ON SURVEY OF REMEDIATION AREA FINAL GRADE DATED 7 SEPTEMBER 2018 BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS.
 2. EXTENT OF REUSE BACKFILL IS BASED ON FIELD OBSERVATIONS.
 3. GEOTEXTILE FABRIC WAS PLACED AT THE BOTTOM OF THE EXCAVATION WHERE DESIGN DEPTH WAS NOT ACHIEVED. SEE SHEETS 3 TO 9.

4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP

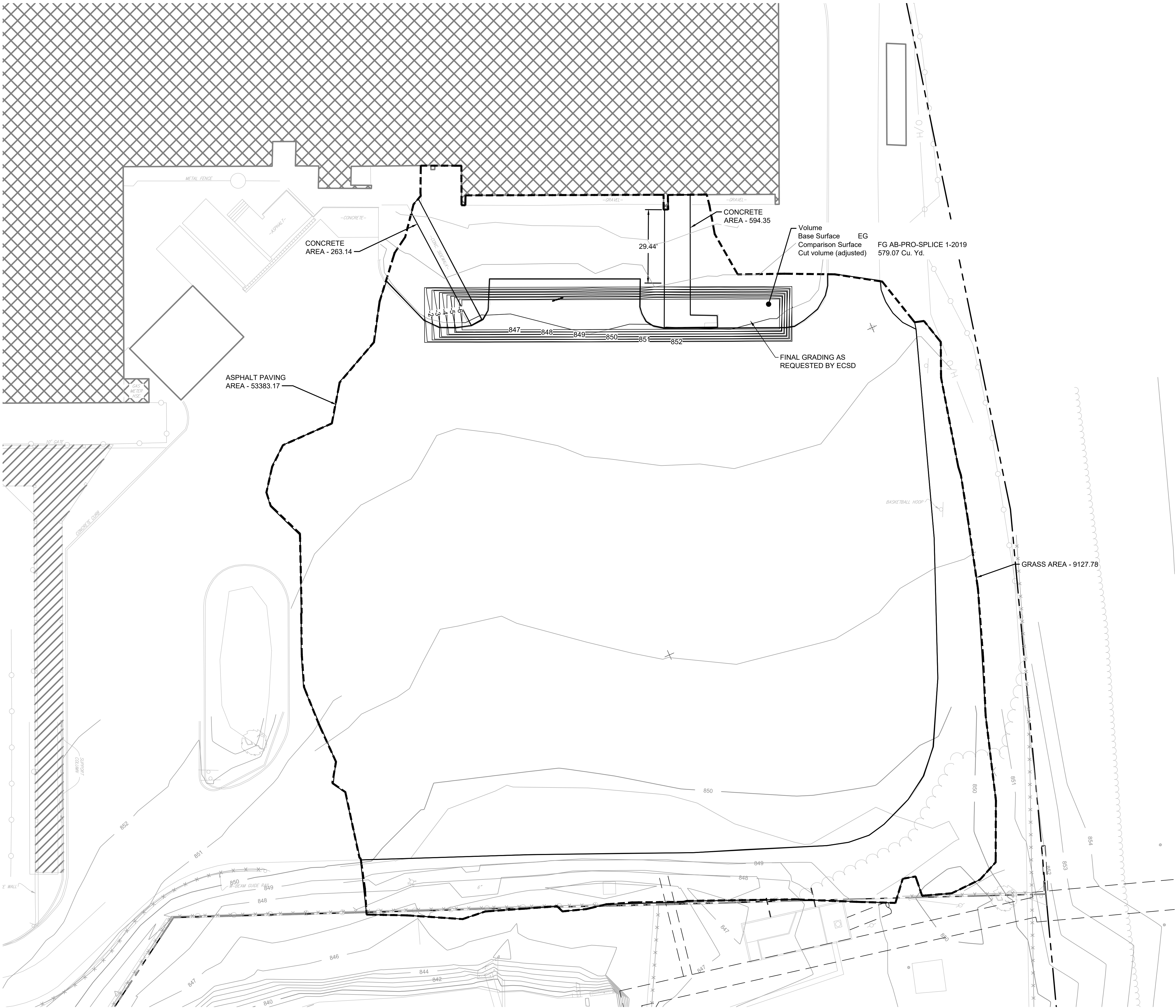
Beech and Bonaparte engineering p.c. <i>an affiliate of Geosyntec Consultants</i>		UNISYS	
TITLE: INTERMEDIATE RESTORATION			
PROJECT: INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS			
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK			

DESIGN BY:	AK	DATE:	JUNE 2020
DRAWN BY:	TSJ	PROJECT NO.:	MN0832D
CHECKED BY:	JMT	FILE:	MN0832D111
REVIEWED BY:	PLB	FIGURE NO.:	10 OF 13
APPROVED BY:	AK		

9 SECTION
INTERMEDIATE GRADE

AS-BUILT DRAWING

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LEGEND	
	MANHOLE CATCH
	BASIN CULVERT
	PIPE
	CHAIN LINK FENCE
	WOODEN FENCE
	PROPERTY LINE
	EXISTING CONTOUR LINE
	EDGE OF WATER
	EDGE OF WOODS OR BRUSH
	BURIED ELECTRIC CABLE
	SANITARY SEWER
	STORM SEWER
	NATURAL GAS LINE
	WATER LINE
	FINAL GRADE CONTOUR

- NOTES:
1. FINAL GRADE ELEVATIONS BASED ON SURVEY OF REMEDIATION AREA FINAL GRADE DATED 7 SEPTEMBER 2018 BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS.
 2. SEE DETAIL 11 ON SHEET 10 FOR DESCRIPTION OF AS-BUILT SOIL COVER SYSTEM.
 3. GEOTEXTILE FABRIC WAS PLACED AT THE BOTTOM OF THE EXCAVATION WHERE DESIGN DEPTH WAS NOT ACHIEVED. SEE SHEETS 3 TO 9.

4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
Beech and Bonaparte[®] engineering p.c. an affiliate of Geosyntec Consultants TITLE: AS-BUILT FINAL RESTORATION PROJECT: INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
 SIGNATURE 2/3/2021 DATE			DESIGN BY: AK	DATE: JUNE 2020
		DRAWN BY: TSJ	PROJECT NO.: MN0832D	
		CHECKED BY: JMT	FILE: MN0832D111B	
		REVIEWED BY: PLB	FIGURE NO.:	
		APPROVED BY: AK	11	OF 13

11 SECTION
- AS-BUILT FINAL GRADE

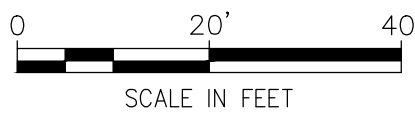
AS-BUILT DRAWING

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LEGEND	
	MANHOLE CATCH
	BASIN CULVERT
	PIPE
	CHAIN LINK FENCE
	WOODEN FENCE
	PROPERTY LINE
	FORMER CONTOUR LINE
	EDGE OF WATER
	EDGE OF WOODS OR BRUSH
	BURIED ELECTRIC CABLE
	SANITARY SEWER
	STORM SEWER
	NATURAL GAS LINE
	WATER LINE
	ENCOUNTERED CONCRETE WALL
	SAMPLE LOCATIONS
	WATER LINE SPOT ELEVATIONS
	REMOVED WATER UTILITIES

Location		CS-01-19	CS-02-19	CS-03-19	CS-04-19	CS-05-19	CS-06-19
Sample Depth (ft bgs)		5.5	6	5.5	5.5	8	5.5
Total PCBs	mg/kg	4.104	0.6071	0.1602	1.625	3.115	1.835
Aluminum	mg/kg	7600	8000	7500	8500	8700	8600
Arsenic	mg/kg	6.3	7.2	5.2	7.3	16	11
Barium	mg/kg	52	75	60	83	84	81
Beryllium	mg/kg	0.321	0.371	0.261	0.391	0.381	0.381
Cadmium	mg/kg	<0.04U	<0.044U	<0.041U	<0.042U	<0.042U	<0.041U
Chromium (III+VI)	mg/kg	11	12	15	12	18	14
Copper	mg/kg	24	30	34	30	98	48
Lead	mg/kg	22	33	11	49	46	31
Manganese	mg/kg	360	390	530	390	430	450
Mercury	mg/kg	0.031J	0.14	0.016J	0.14	6.6	0.19
Nickel	mg/kg	21	24	16	20	250	79
Selenium	mg/kg	<0.56U	<0.63U	<0.58U	<0.59U	<0.59U	<0.58U
Silver	mg/kg	<0.12U	<0.13U	<0.12U	<0.12U	<0.12U	<0.12U
Zinc	mg/kg	64	73	58	90	87	70



- NOTES:
- EXISTING TOPOGRAPHY IS FROM:
 - A TOPOGRAPHIC SURVEY OF ELMIRA HIGH SCHOOL BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS IN SEPTEMBER 2016. VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88/GEIOD 12A), HORIZONTAL CONTROL IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/NA 2011).
 - A TOPOGRAPHIC SURVEY OF FORMER REMINGTON RAND SITE BY WEILER ASSOCIATES, DATED 27 APRIL 2011.
 - WATER LINE RELOCATION WAS COMPLETED IN JUNE 2019. DETAILS ARE PRESENTED IN THE IRM #3 CONSTRUCTION COMPLETION REPORT.

4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
Beech and Bonaparte[®] engineering p.c. an affiliate of Geosyntec Consultants UNISYS TITLE: WATER LINE RELOCATION PROJECT: INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
 SIGNATURE 2/3/2021 DATE				
DESIGN BY: AK		DATE: JUNE 2020		
DRAWN BY: TSJ		PROJECT NO.: MN0832D		
CHECKED BY: JMT		FILE: MN0832D112A		
REVIEWED BY: PLB		FIGURE NO.: 12 OF 13		
APPROVED BY: AK				

AS-BUILT DRAWING

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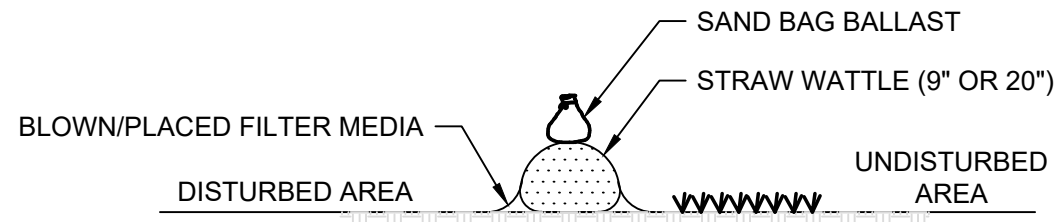
B

C

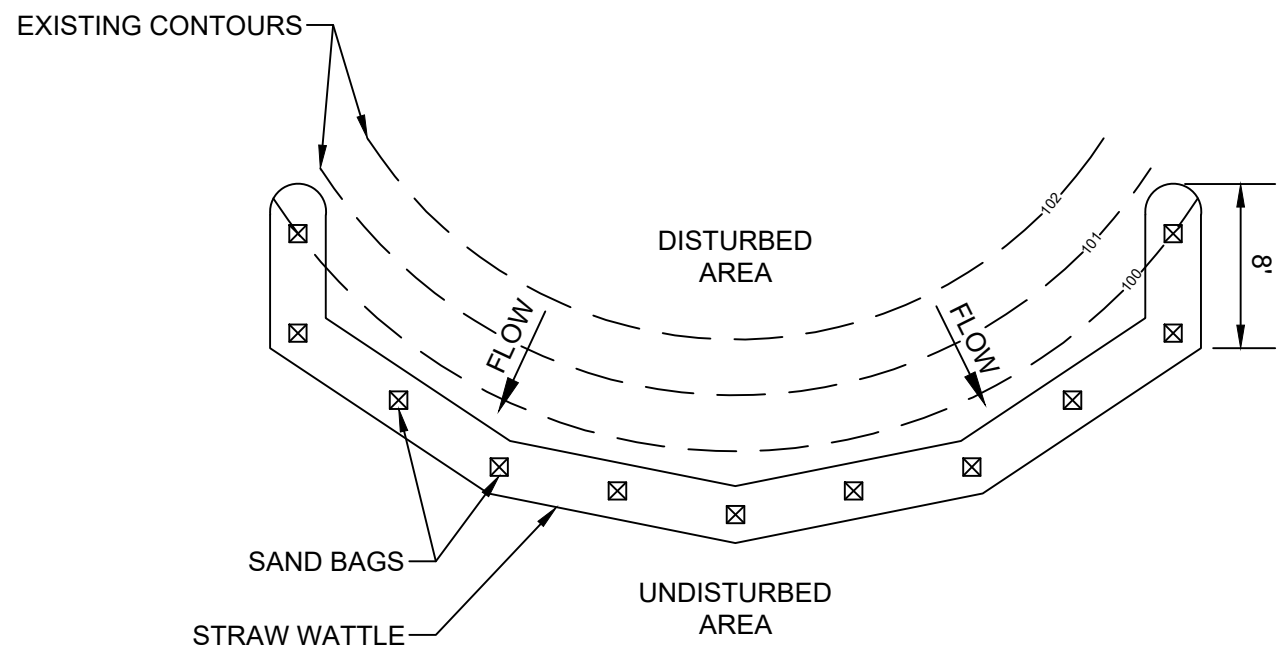
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E

F

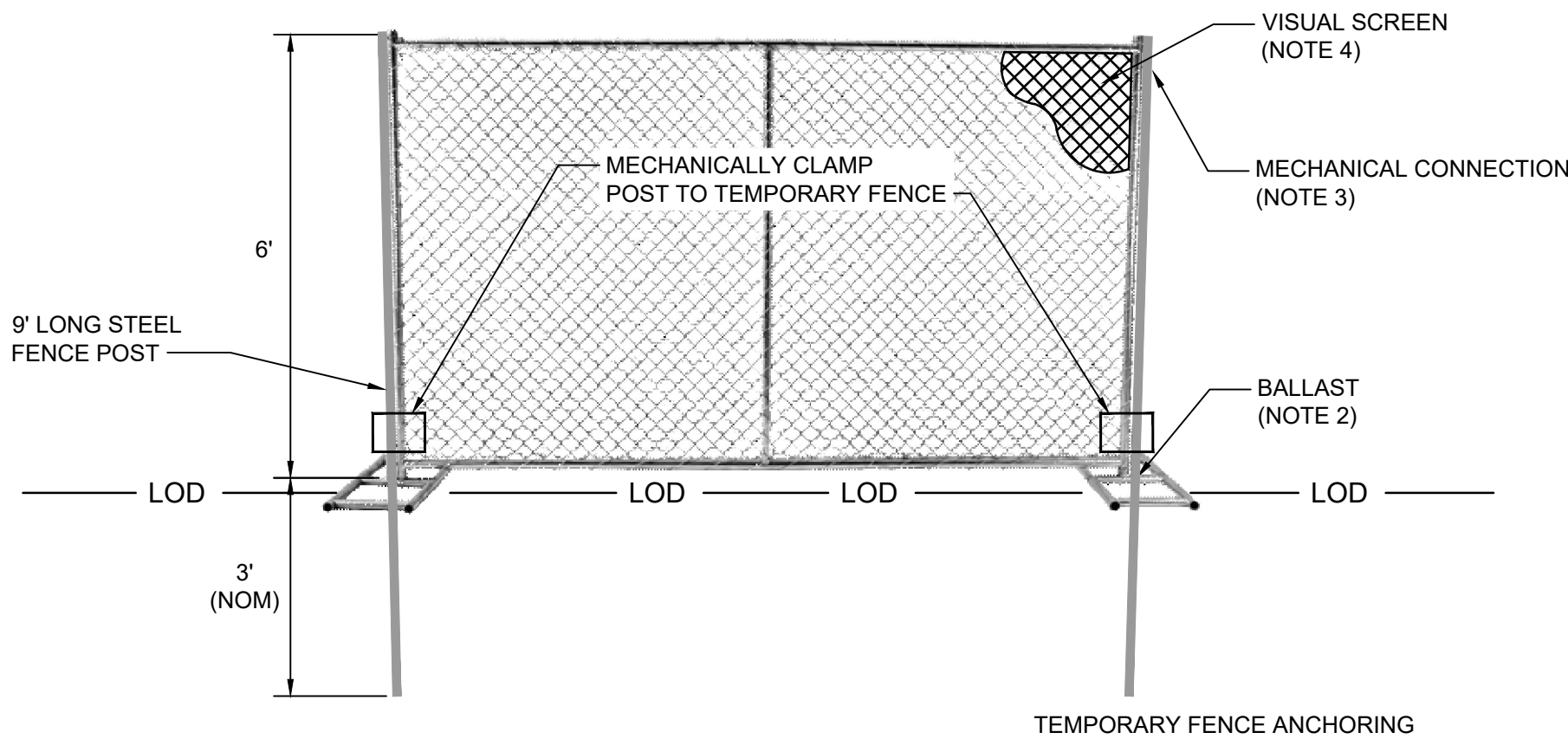


SECTION VIEW



PLAN VIEW

6 PLAN
- STRAW WATTLE
SCALE: NOT TO SCALE



14 DETAIL
- TEMPORARY FENCE
SCALE: NOT TO SCALE

NOTES:

- 6-FT TALL, PORTABLE CHAIN-LINK FENCE PANELS, SET ON THE EXISTING GROUND SURFACE, COINCIDENT WITH THE LIMIT OF CONSTRUCTION DISTURBANCE.
- TEMPORARY BALLAST REPLACED WITH DRIVEN POSTS AS SHOWN, TO PREVENT OVERTURNING OF THE FENCE PANELS.
- FLEXIBLE, MECHANICAL CONNECTION, BETWEEN FENCE PANELS.
- FULL-COVERAGE VISUAL SCREENING OVER EACH ENTIRE FENCE PANEL.

COVERED
EQUIPMENT
WASH PAD

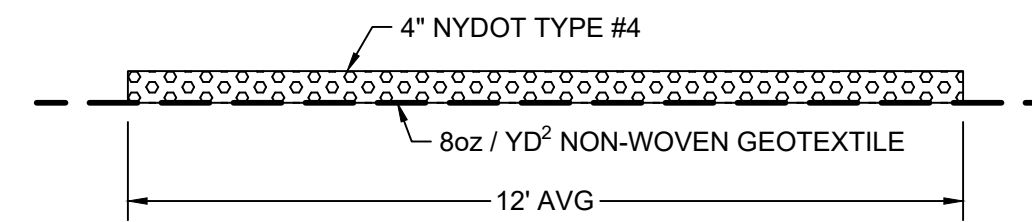
STRAW WATTLE

EXISTING ROAD

TEMPORARY FENCE

MSA BASE LAYER

13 PLAN
- MATERIAL STAGING AREA
SCALE: 1" = 30'



15 DETAIL
- MSA BASE LAYER
SCALE: NOT TO SCALE



4	2/3/21	RESPONSE TO AGENCY COMMENTS	AM	AK	
3	6/26/20	RESPONSE TO AGENCY COMMENTS	BGF	AK	
2	3/20/20	RESPONSE TO AGENCY COMMENTS	BGF	AK	
1	12/12/19	RESPONSE TO AGENCY COMMENTS	BGF	AK	
REV	DATE	DESCRIPTION	DRN	APP	
Beech and Bonaparte engineering p.c. an affiliate of Geosyntec Consultants UNISYS					
TITLE: MATERIAL STAGING AREA					
PROJECT: INTERIM REMEDIATION MEASURE AS-BUILT DRAWINGS					
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK					
SIGNATURE 2/3/2021 DATE		DESIGN BY: AK DRAWN BY: TSJ CHECKED BY: JMT REVIEWED BY: PLB APPROVED BY: AK			DATE: JUNE 2020 PROJECT NO.: MN0832D FILE: MN0832D113 FIGURE NO.: 13 OF 13

AS-BUILT DRAWING