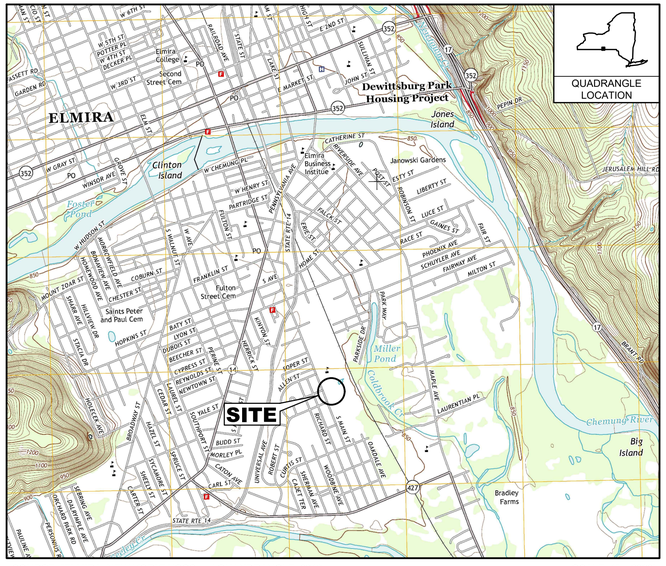
OS2 INTERIM REMEDIAL MEASURE

FORMER SPERRY REMINGTON SITE
ELMIRA, NEW YORK

APRIL 2019



SOURCE: "ELMIRA, NEW YORK" USGS 7.5' QUANDRANGLE, 2013 SCALE: 1" = 2000'

LOCATION MAP

DRAWING LIST	
NUMBER	TITLE
1	COVER SHEET
2	EXISTING CONDITIONS
3	SITE PLAN - STCC AREA
4	STORM SEWER PLAN AND DETAILS
5	SHALLOW SOIL EXCAVATION PLAN
6	OIL SKIMMER PLAN
7	OIL SKIMMER REMOVAL
8	SITE PLAN - EHS AREA
9	SOLIDS STABILIZATION AREA PLAN AND DETAILS
10	DETAILS AND NOTES
11	EQUIPMENT WASH PAD DETAILS

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
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CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

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UNISYS

TITLE: COVER SHEET

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE ELMIRA, NEW YORK

SIGNATURE
10/7/2019
DATE

STATE OF NEW YORK JASON K. KRASNOFF 089954-1 LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	BGF	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-001
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK	1 OF 11	

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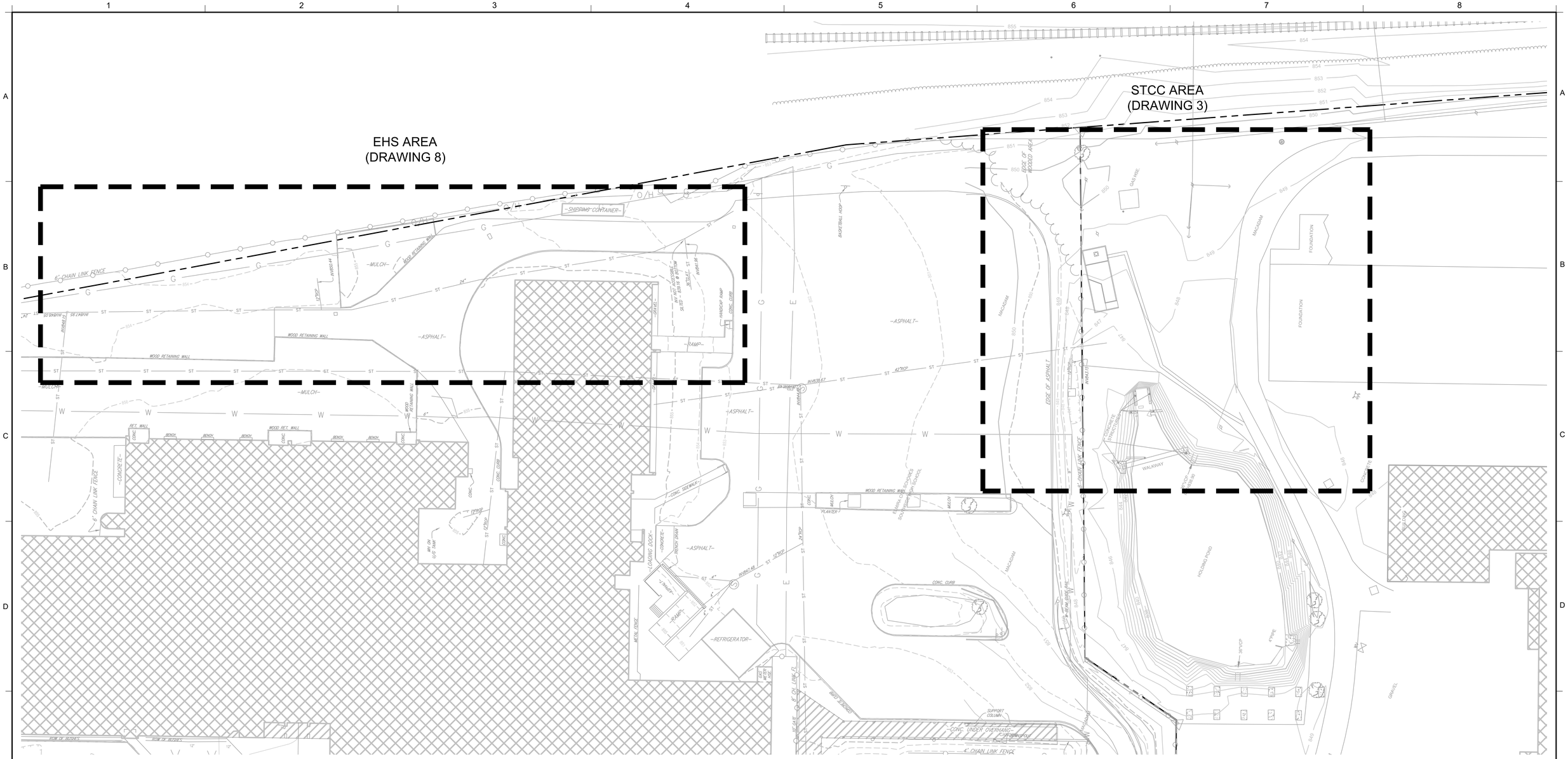

LEGEND

- 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
- EXCAVATION LIMITS
- TREE
- EXISTING BUILDING

GENERAL NOTES:

1. EXISTING TOPOGRAPHY IS FROM:
   a. 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/GEOID 12A), HORIZONTAL CONTROL IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/NA 2011).
   b. A TOPOGRAPHIC SURVEY OF FORMER REMINGTON RAND SITE BY WEILER ASSOCIATES, DATED 27 APRIL 2011.
   c. A BOUNDARY SURVEY OF LANDS OF SCOTT TECHNOLOGIES, INC. (F/K/A FIGGIE INTERNATIONAL, INC.), TOWN OF SOUTHPORT, CHEMUNG COUNTY, NEW YORK BY WEILER ASSOCIATES IN JUNE 1980, REVISED IN SEPTEMBER AND OCTOBER 2005.
2. UNDERGROUND UTILITIES SHOWN WERE MAPPED USING A COMBINATION OF OF FIELD LOCATED EVIDENCE AND EXISTING UTILITY MAPS. THE ACCURACY OF THESE UTILITY LOCATIONS CANNOT BE GUARANTEED. ALL UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED BEFORE EXCAVATING. CALL 'DIG SAFELY NEW YORK' 1-800-962-7962.

1 / - PLAN
SITE PLAN

0 30' 60'
SCALE IN FEET

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

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UNISYS

TITLE: EXISTING CONDITIONS

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE
ELMIRA, NEW YORK

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	BGF	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-002
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK		2 OF 11

SIGNATURE
10/7/2019
DATE

STATE OF NEW YORK · JASON K. KRASNOPOLSKY · 089954 · LICENSED PROFESSIONAL ENGINEER

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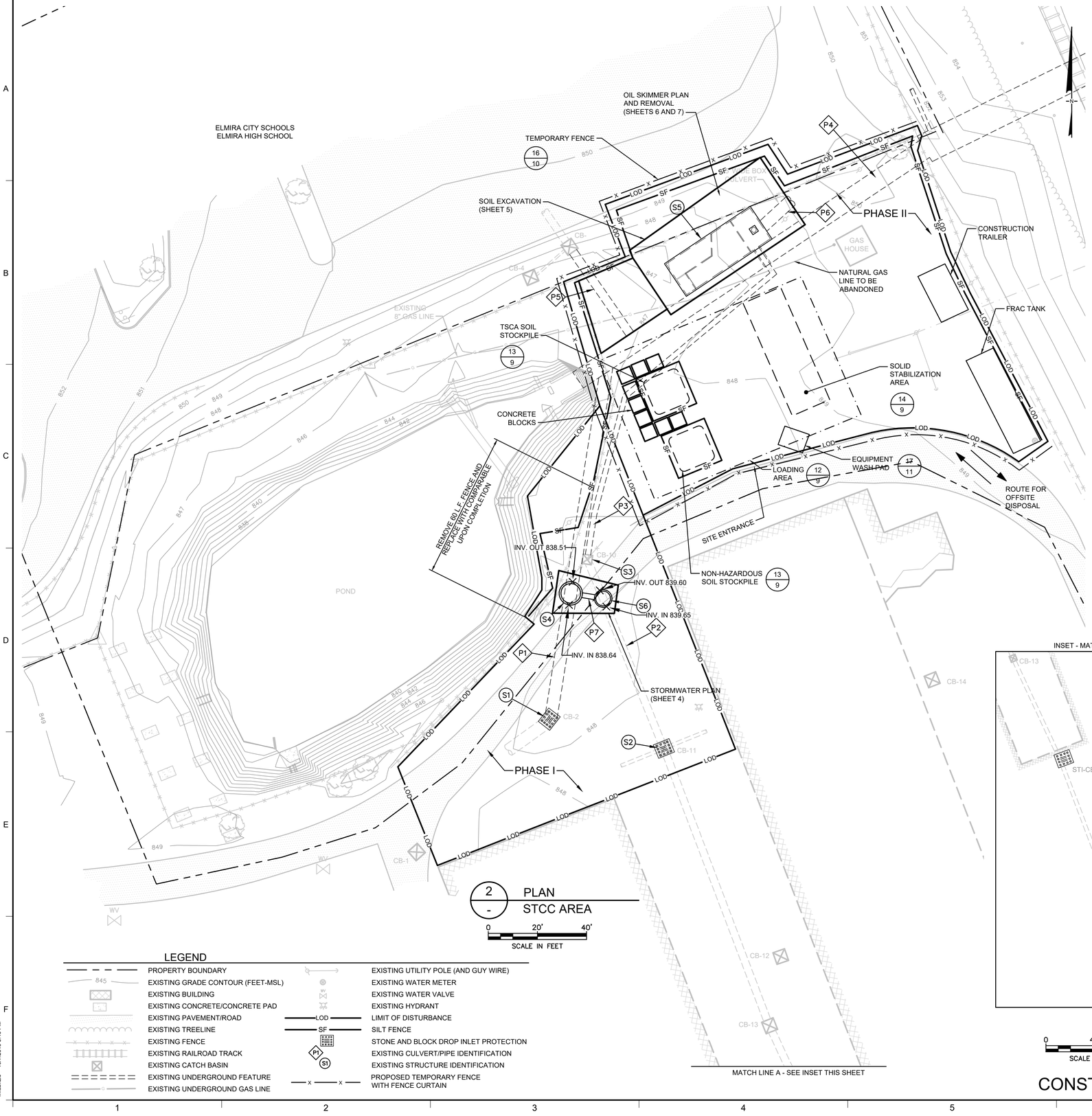


LEGEND

- PROPERTY BOUNDARY
- 845 EXISTING GRADE CONTOUR (FEET-MSL)
- EXISTING BUILDING
- EXISTING CONCRETE/CONCRETE PAD
- EXISTING PAVEMENT/ROAD
- EXISTING TREELINE
- EXISTING FENCE
- EXISTING RAILROAD TRACK
- EXISTING CATCH BASIN
- EXISTING UNDERGROUND FEATURE
- EXISTING UNDERGROUND GAS LINE
- EXISTING UTILITY POLE (AND GUY WIRE)
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING HYDRANT
- LOD LIMIT OF DISTURBANCE
- SF SILT FENCE
- STONE AND BLOCK DROP INLET PROTECTION
- P1 EXISTING CULVERT/PIPE IDENTIFICATION
- S1 EXISTING STRUCTURE IDENTIFICATION
- x x PROPOSED TEMPORARY FENCE WITH FENCE CURTAIN

CULVERT/PIPE SCHEDULE

PIPE	SIZE	MATERIAL	INV. IN (ELEV. FT)	INV. OUT (ELEV. FT)	CONSTRUCTION NOTES
P1	60 IN.	RCP	839.2	837.4	ACTIVE STORM DRAIN, MAINTAIN DISCHARGE DURING CONSTRUCTION
P2	36 IN.	VCP	840.07	839.52	FIELD DETERMINE INVERT OUT; ACTIVE STORM DRAIN, MAINTAIN DISCHARGE DURING CONSTRUCTION; DEMOLISH AND REMOVED PIPE BETWEEN S6 AND S3
P3	18 IN.	STEEL	839.52	837.45	WASH, COLLECT DISCHARGE AT S5. SEAL PIPE AND GROUT; GROUT CONNECTION AT S5 LENGTH AND DISCHARGE LOCATION UNCONFIRMED
P4	BOX CULVERT	CONCRETE	843.25	842.97	ACTIVE STORM DRAIN, MAINTAIN DISCHARGE DURING CONSTRUCTION
P5	42 IN.	VCP	843.15	837.8	ACTIVE STORM DRAIN, MAINTAIN DISCHARGE DURING CONSTRUCTION
P6	60 IN.	CONCRETE	838.86	837.45	INACTIVE INDUSTRIAL SEWER DRAIN LOCATION UNCONFIRMED
P7	36 IN.	RCP	838.7	838.6	NEW STORM DRAIN BETWEEN STRUCTURES S6 AND S4

STRUCTURE SCHEDULE

STRUCTURE	ID	RIM (ELEV. FT)	DEPTH (FT)	IN1 P#	IN2 P#	OUT1 P#	OUT2 P#	CONSTRUCTION NOTES
S1	CB-2	848.7	9.5	-		P1		ACTIVE CATCH BASIN; MAINTAIN DISCHARGE DURING CONSTRUCTION
S2	CB-11	--	8.5	--	--	--	--	ACTIVE CATCH BASIN; MAINTAIN DISCHARGE DURING CONSTRUCTION
S3	CB-10	--	--	P2	--	P1	P3	ABANDON
S4	--	MATCH GRADE		P1	P2	P1	--	NEW STRUCTURE, SEE DRAWING 4
S5	OIL SKIMMER #2	--	--	--	--	--	--	SEE DRAWING 6
S6	--	MATCH GRADE	--	P2	--	P8	--	NEW STRUCTURE, SEE DRAWING 4

NOTE: DISCHARGE FROM S1 AND S2 SHALL BE MAINTAINED BY DIVERTING FLOW TO THE ADJACENT POND

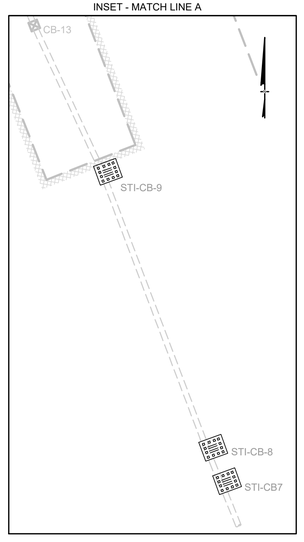
CONSTRUCTION SEQUENCE:

PHASE I

1. INSTALL/MAINTAIN TEMPORARY SEDIMENT AND EROSION CONTROLS PURSUANT TO DRAWINGS 3 TO 10.
2. INSTALL STORM SEWER MODIFICATIONS TO CONNECT S2 TO P1 PURSUANT TO DRAWING 4.
3. RESTORE ASPHALT PAVEMENT
4. AMEND TOPSOIL AND INSTALL PERMANENT VEGETATION IN LOCATIONS THAT ARE TO BE GRASSED.
5. REMOVE TEMPORARY SEDIMENT AND EROSION CONTROLS.

PHASE II

1. INSTALL/MAINTAIN TEMPORARY SEDIMENT AND EROSION CONTROLS PURSUANT TO DRAWINGS 3 TO 10.
2. CONSTRUCT LOADING, STOCKPILE AND SOLIDS STABILIZATION AREAS PURSUANT TO DRAWING 3 AND 9.
3. ABANDON NATURAL GAS LINE PURSUANT TO DRAWING 5 IN COORDINATION WITH NYSEG.
4. PROTECT OTHER EXISTING UTILITIES WITHIN LIMITS OF EXCAVATION PURSUANT TO DRAWING 5.
5. EXCAVATE SHALLOW SOILS AS SHOWN. SEGREGATE INTO SOILS WITH TOTAL PCBS ≥ 50 MG/KG FOR DISPOSAL AS HAZARDOUS WASTE AND SOILS WITH TOTAL PCBS < 50 FOR DISPOSAL AS NON-HAZARDOUS WASTE ENSURING THAT IMPACTED SOILS ARE EXCAVATED TO THE DEPTHS SHOWN ON DRAWING 5.
6. EXPOSE S5, REMOVE WATER AND FINE-GRAINED MATERIAL CONTAINED, AND CLEAN INTERIOR SURFACES OF S5 WITHIN PURSUANT TO DRAWING 6.
7. EXCAVATE SOILS SURROUNDING S5 AND REMOVE THE S5 STRUCTURE PURSUANT TO DRAWING 6
8. BACKFILL THE EXCAVATION WITH APPROVED, OFF-SITE BORROW. SEE DETAIL 7 ON DRAWING 5.
9. REMOVE TEMPORARY FACILITIES. IN ACCORDANCE WITH SECTION 3.7 - SITE RESTORATION OF APPROVED OS2 IRM WORK PLAN.
10. AMEND TOPSOIL AND INSTALL PERMANENT VEGETATION IN LOCATIONS THAT ARE TO BE GRASSED.
11. REMOVE TEMPORARY SEDIMENT AND EROSION CONTROLS.



GENERAL NOTES:

1. EXISTING CONDITIONS FROM CAD FILE OF DRAWING ENTITLED "TOPOGRAPHIC SURVEY OF FORMER REMINGTON RAND SITE" BY WEILER ASSOCIATES, DATED 27 APRIL 2011.
2. LOCATION OF BURIED STRUCTURES AND PIPES IS APPROXIMATE.
3. CONSTRUCTION TRAILERS SHALL NOT BE PLACED IN AREAS WHERE POTENTIAL EXPOSURE EXISTS.

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

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

UNISYS

TITLE: SITE PLAN - STCC AREA

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE
ELMIRA, NEW YORK

SIGNATURE
10/7/2019
DATE

STATE OF NEW YORK — AKRAM A. KRANBUHL — 089964 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	BGF	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-003
REVIEWED BY:	PLB	DRAWING NO.:	3 OF 11
APPROVED BY:	AK		

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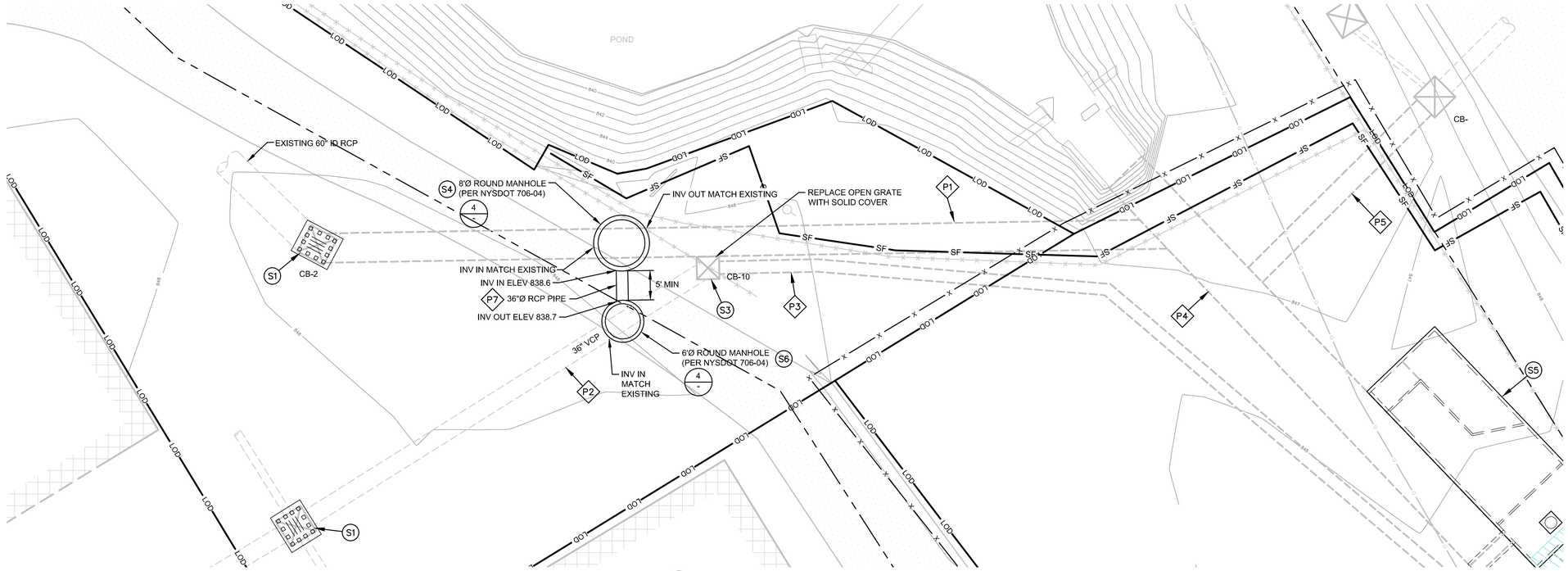
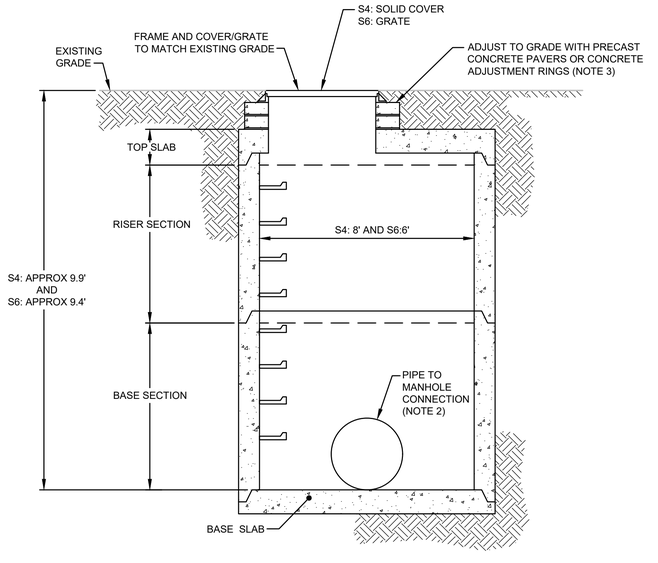


3 / - PLAN
PHASE I - PIPES P1 AND P2 MODIFICATIONS
SCALE: 1" = 10'

NOTES:

1. SEE DRAWING 10 FOR GENERAL NOTES.
2. LOCATION OF BURIED STRUCTURES AND PIPES IS APPROXIMATE.
3. SEE DRAWING 3 FOR CULVERT/PIPE AND OTHER STRUCTURE SCHEDULES.
4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT A WRITTEN MANHOLE CONSTRUCTION PLAN FOR APPROVAL BY ENGINEER.
5. PRIOR TO STORM SEWER MODIFICATIONS, LINES UPSTREAM OF S1 (SEE SHEET 3) SHALL BE FLUSHED TO REMOVE FINE-GRAINED MATERIAL. WATER AND SOLIDS SHALL BE COLLECTED AT S1 AND TRANSFERRED TO THE FRAC TANK PENDING WASTE CHARACTERIZATION AND OFF-SITE DISPOSAL.
6. WATER DISCHARGE FROM S1 AND S2 SHALL BE MAINTAINED DURING CONSTRUCTION BY DIVERTING FLOW TO THE HOLDING POND.
7. EXCAVATED SOILS SHALL BE STOCKPILED FOR SAMPLING FOR ANALYSES IN ACCORDANCE WITH DER-10 SECTION 5.4(E) IN ORDER TO CONSIDER THOSE SOILS FOR POTENTIAL REUSE AND FOR WASTE CHARACTERIZATION BY THE ENGINEER.
8. STOCKPILED SOIL APPROVED BY NYSDEC FOR REUSE WILL BE USED TO BACKFILL THE EXCAVATION UP TO THE GROUND SURFACE, OR DEPTH APPROVED BY NYSDEC. IF NECESSARY, IMPORTED FILL MATERIAL WILL BE USED TO BACKFILL THE REMAINING EXCAVATION UP TO THE GROUND SURFACE. IMPORTED FILL MATERIAL WILL MEET REQUIREMENTS FOR IMPORTED FILL OR SOIL PRESENTED IN DER-10.
9. STOCKPILED SOIL NOT APPROVED BY NYSDEC FOR REUSE WILL BE LOADED INTO TRUCKS FOR OFF-SITE DISPOSAL UPON APPROVAL OF THE WASTE PROFILE BY THE RECEIVING FACILITY.
10. PAVED AREAS WILL BE RESTORED WITH ASPHALT PAVEMENT IN ACCORDANCE WITH DETAIL 5.

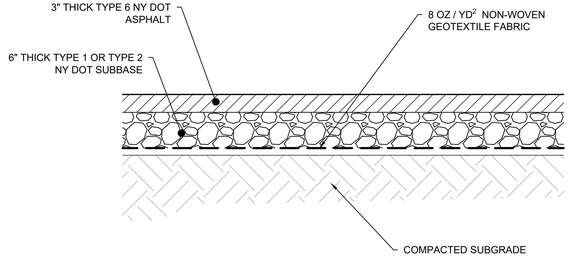
0 10' 20'
SCALE IN FEET



4 / - DETAIL
ROUND MANHOLE
SCALE: 1" = 2'

MANHOLE NOTES:

1. THE RISER, TOP SLAB, AND BOTTOM SLAB SHALL BE MANUFACTURED IN ACCORDANCE WITH THE PROVISIONS OF PARAGRAPH 706-04 OF THE NYSDOT STANDARD SPECIFICATIONS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
   A. REINFORCED STEEL SHALL CONFORM TO LATEST ASTM A185 SPECIFICATION.
   A. CONCRETE COMPRESSIVE STRENGTH - 4,000 P.S.I. MINIMUM.
   B. MANHOLE DESIGN SHALL CONFORM TO LATEST ASTM C478 SPECIFICATION FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
   C. TOP SLAB STEEL REINFORCED TO MEET OR EXCEED HS-20 LOADING.
   D. STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEP SHALL CONFORM TO LATEST ASTM C478 PARAGRAPH 11 SPECIFICATION.
   E. BUTYL SEALANT SHALL BE USED BETWEEN ALL JOINTS.
2. FINISHING PIPE ENTRIES:
   THE BELLS OF CONCRETE PIPE SHALL BE CUT OFF AT EVERY PIPE ENTRY WHERE THE BELL ENTERS A STRUCTURE. CONNECTIONS BETWEEN THE STRUCTURE AND PIPE SHALL BE MADE BY EITHER USING A RESILIENT CONNECTOR MEETING THE REQUIREMENTS OF ASTM C1478 OR BY COMPLETELY FILLING THE SPACE AROUND EACH PIPE WITH CONCRETE GROUTING MATERIAL OR CONCRETE REPAIR MATERIAL. IN CASE OF LARGE SPACES AROUND PIPES, CONCRETE PAVERS, COMPLETELY BEDDED IN GROUT OR CONCRETE REPAIR MATERIAL, MAY BE USED.
3. TOP SLAB ADJUSTMENT:
   A MINIMUM OF 1/2" BEDDING SHALL BE PLACED BETWEEN RISERS AND PRECAST TOP SLABS. GRADE ADJUSTMENT FOR TOP SLABS OF UP TO 2 1/2" SHALL BE MADE WITH BEDDING MATERIAL MEETING THE REQUIREMENTS OF CONCRETE GROUTING MATERIALS OR CONCRETE REPAIR MATERIAL. GRADE ADJUSTMENT FOR TOP SLABS OF UP TO 6" SHALL BE MADE WITH A COMBINATION OF PRECAST CONCRETE PAVERS AND BEDDING MATERIALS. GRADE ADJUSTMENT FOR TOP SLABS OF UP TO 1'-0" SHALL BE MADE WITH CAST-IN-PLACE CONCRETE OR A COMBINATION OF PRECAST CONCRETE ADJUSTMENT ELEMENTS AND BEDDING MATERIALS.
4. FRAME AND GRATE SHALL BE CONSTRUCTED AND CONFORM TO NYSDOT STANDARD DETAIL 655-03.



5 / - DETAIL
ASPHALT DRIVE REPLACEMENT
SCALE: NTS

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

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UNISYS

TITLE: STORM SEWER PLAN AND DETAILS

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE
ELMIRA, NEW YORK

SIGNATURE
10/7/2019
DATE

JOHN A. KRASNOPOLSKY — STATE OF NEW YORK — 089954 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	BGF	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-004
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK	4 OF 11	

CONSTRUCTION DRAWING

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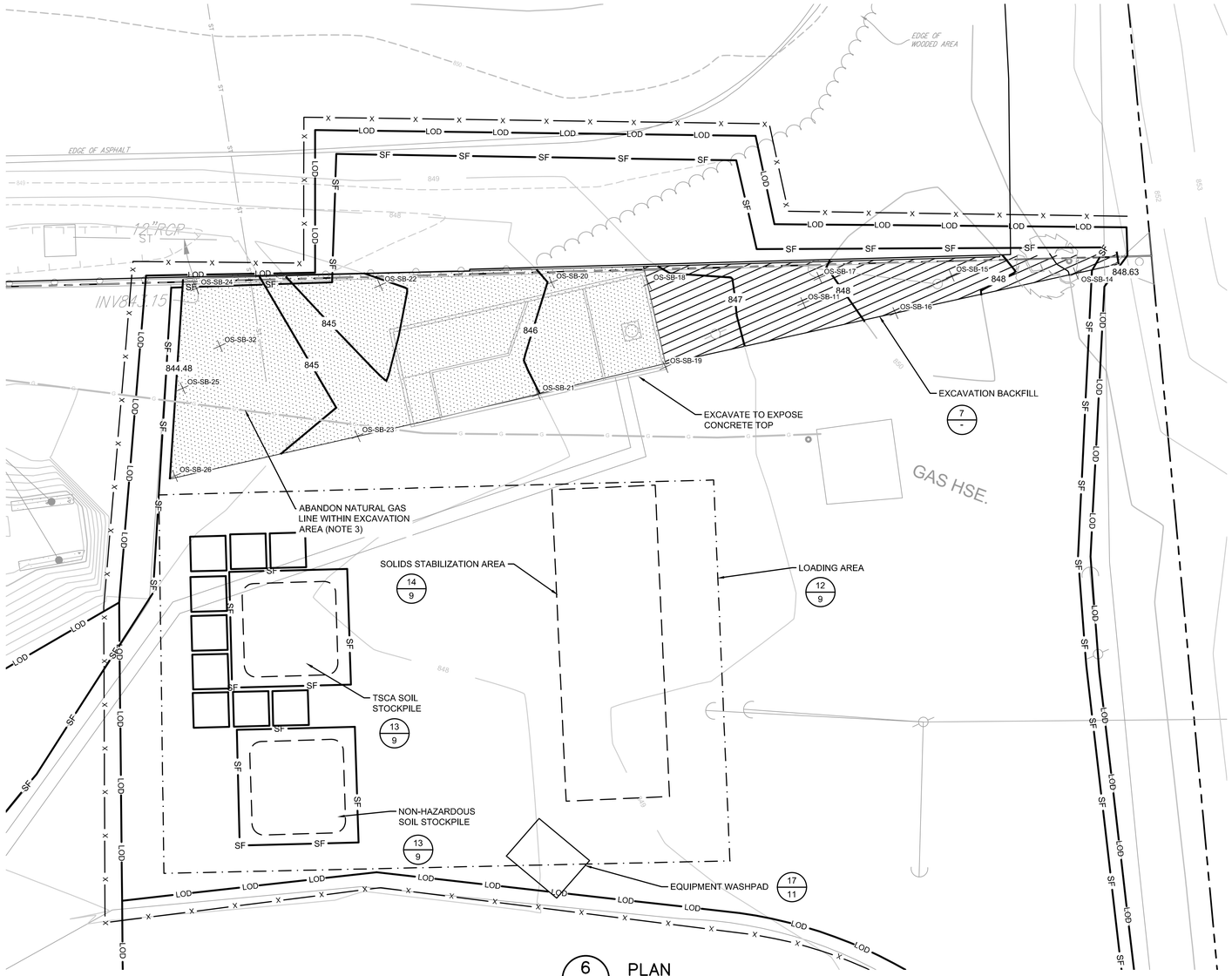
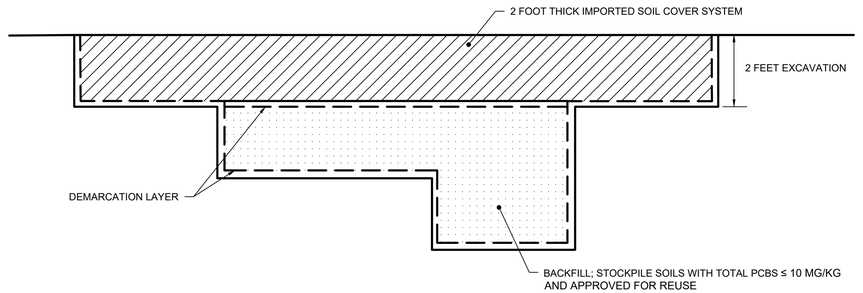


6 — PLAN
PHASE II – EXCAVATION
SCALE: NTS

DOCUMENTATION SAMPLES		
SIDEWALL (0 -2 FT BGS)		
LOC ID	EASTING	NORTHING
OS-SB-14	762850.43	753680.83
OS-SB-15	762831.95	753673.37
OS-SB-16	762825.69	753664.52
OS-SB-17	762812.27	753665.43
OS-SB-18	762787.08	753654.74
OS-SB-19	762794.34	753643.22
OS-SB-20	762772.45	753648.14
OS-SB-21	762776.83	753631.83
OS-SB-22	762746.92	753615.20
OS-SB-23	762752.21	753615.20
OS-SB-24	762719.59	753628.04
OS-SB-25	762723.28	753612.31
OS-SB-26	762727.17	753598.73
BOTTOM (2 FT BGS)		
OS-SB-11	762811.33	753660.71
OS-SB-32	762726.42	753620.76



7 — DETAIL
EXCAVATION BACKFILL
SCALE: NTS

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
- 845 — EXCAVATION GRADE (FT)
- TREE
- OS-SB-19 — DOCUMENTATION SAMPLE
- SF — SILT FENCE
- SOIL WITH PCBS ≥ 50 MG/KG
- SOIL WITH PCBS ≥ 25 MG/KG AND ≤ MG/KG

0 10' 20'
SCALE IN FEET

NOTES:

1. SEE SHEET 10 FOR GENERAL NOTES.
2. CONTRACTOR SHALL SUBMIT TO THE ENGINEER AN EXCAVATION WORK PLAN CONFORMING TO THE APPROVED IRM WORK PLAN. ANY MODIFICATIONS OR DEVIATIONS FROM THE APPROVED IRM WORK PLAN MUST BE APPROVED BY NYSDEC.
3. CONTRACTOR SHALL ABANDON NATURAL GAS UTILITIES WITHIN THE EXCAVATION IN COORDINATION WITH NYSEG PRIOR TO EXCAVATION.
4. EXCAVATED SOILS WITH 50 Mg/Kg PCBS OR GREATER SHALL BE SEGREGATED AND STOCKPILED FOR SAMPLING FOR WASTE CHARACTERIZATION BY THE ENGINEER AND LOADED INTO TRUCKS FOR OFF-SITE DISPOSAL UPON APPROVAL OF THE WASTE PROFILE BY THE RECEIVING FACILITY.
5. EXCAVATED SOILS WITH PCBs BELOW 50 Mg/Kg SHALL BE SEGREGATED AND STOCKPILED FOR SAMPLING FOR WASTE CHARACTERIZATION BY THE ENGINEER AND LOADED INTO TRUCKS FOR OFF-SITE DISPOSAL UPON APPROVAL OF THE WASTE PROFILE BY THE RECEIVING FACILITY.
6. ALL VEHICLES LEAVING THE LOADING AREA SHALL BE DECONTAMINATED PRIOR TO LEAVING THE SITE. SEE NOTES ON SHEET 10.
7. DOCUMENTATION SAMPLES WILL BE COLLECTED BY ENGINEER. DOCUMENTATION SAMPLE LOCATIONS ARE ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BASED ON FIELD OBSERVATIONS AND CHANGES TO THE EXCAVATION PLAN. SEE OS2 IRM WORK PLAN FOR DETAILS.
8. PLACE DEMARCATION LAYER NETTING OVER BOTTOM OF EXCAVATION PRIOR TO BACKFILLING. SEE DETAIL 3 ON SHEET 9.
9. ALL MATERIALS IMPORTED TO THE SITE MUST MEET THE REQUIREMENTS OF DER-10 SECTION 5.4(e) AND APPENDIX 5 FOR RESTRICTED RESIDENTIAL USE. ALL CONFORMANCE DATA FOR IMPORTED MATERIALS MUST BE VALIDATED AND APPROVED BY NYSDEC.
10. FILL MATERIAL WILL BE COMPACTED IN ORDER TO MAINTAIN THE INTEGRITY OF THE COVER WITH ACCOMMODATION FOR SETTLING AND SUBSIDENCE AND TO HAVE PERMEABILITY CONSISTENT WITH NATURAL SUBSOILS PRESENT.

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

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

UNISYS

TITLE: SHALLOW SOIL EXCAVATION PLAN

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE
ELMIRA, NEW YORK

SIGNATURE
10/7/2019
DATE

JASON A. KRASNOVSKY — STATE OF NEW YORK — 099954-1 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	JWO	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-005
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK		5 OF 11

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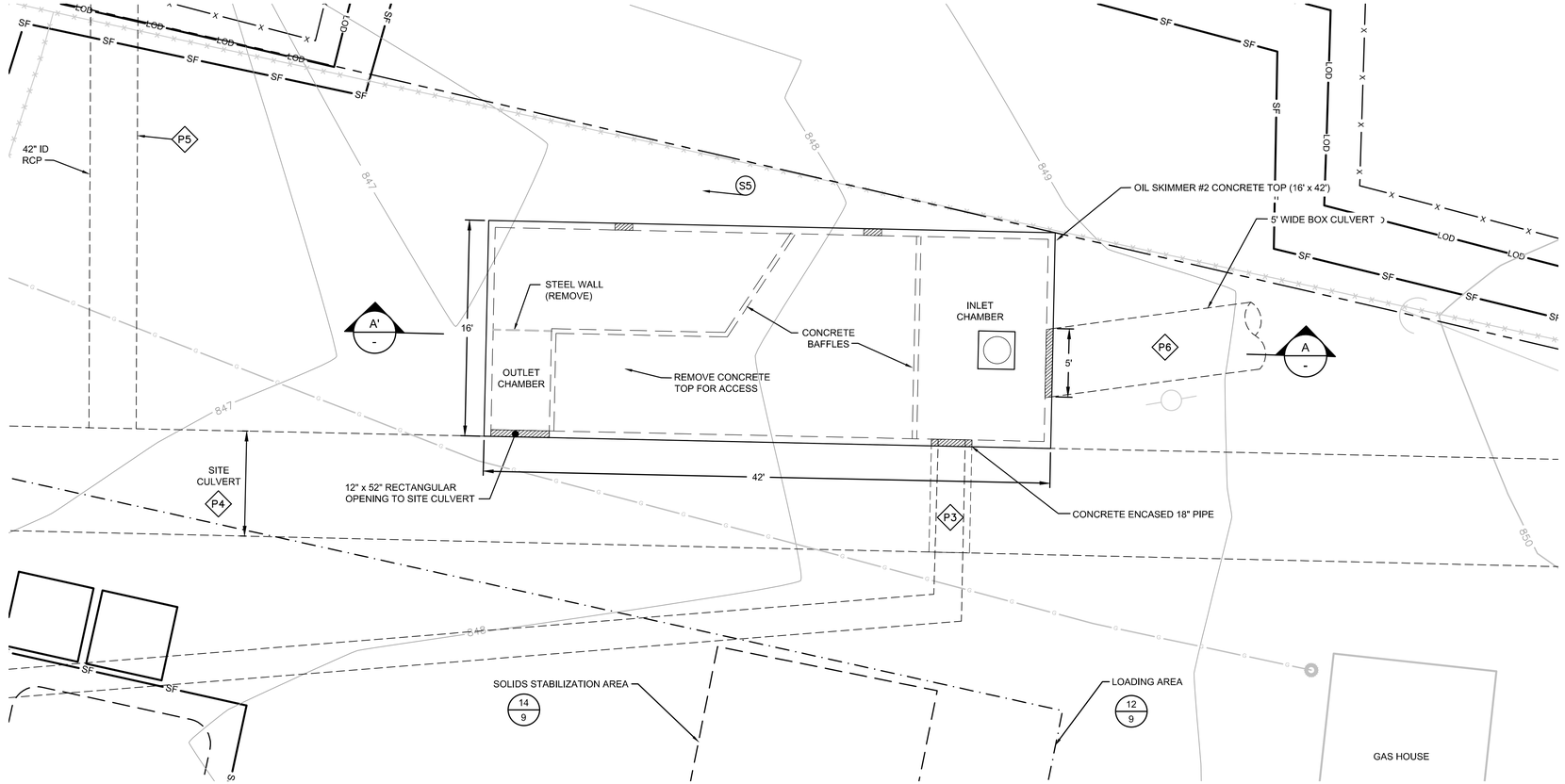
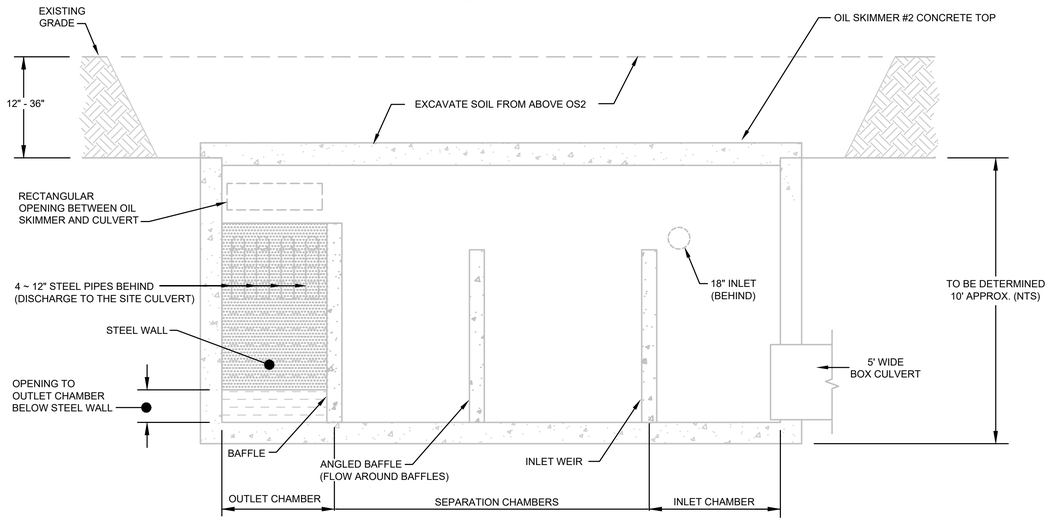


8 — PLAN
OIL SKIMMER #2
SCALE: 1" = 5'



INITIAL CONDITIONS

A — SECTION
OIL SKIMMER #2
SCALE: 1" = 5'

LEGEND

- PROPERTY BOUNDARY
- 845 — EXISTING GRADE CONTOUR (FEET-MSL)
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING UNDERGROUND GAS LINE
- EXISTING UTILITY POLE (AND GUY WIRE)
- SF — SILT FENCE
- x — x — PROPOSED TEMPORARY FENCE

OIL SKIMMER #2 (OS2) MATERIAL REMOVAL

1. MATERIAL WILL BE REMOVED FROM FORMER OIL SKIMMER #2 (OS2) USING THE FOLLOWING SEQUENCE.
2. SOIL SHALL BE REMOVED FROM ON TOP OF OS2 AS PART OF SHALLOW SOIL EXCAVATION PURSUANT TO SHEET 4. CONCRETE TOP HAS BEEN OBSERVED TO BE 12 TO 36 INCHES BELOW GROUND SURFACE.
3. ONCE EXPOSED, CONCRETE TOP SHALL BE REMOVED AND STOCKPILED ON SITE. TOP MAY BE CUT AS NEEDED TO FACILITATE REMOVAL. CONCRETE SHALL BE DECONTAMINATED ON SITE. SAMPLES OF THE STOCKPILED MATERIAL SHALL BE COLLECTED BY THE ENGINEER TO DEVELOP A WASTE PROFILE. STOCKPILED MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE FEDERAL AND STATE LAWS AND REGULATIONS AT UNISYS APPROVED FACILITY.
4. WATER WITHIN OS2 STRUCTURE SHALL BE REMOVED AND CONTAINED FOR OFF-SITE DISPOSAL AT UNISYS APPROVED FACILITY. THE QEP SHALL COLLECT REPRESENTATIVE SAMPLES FOR ANALYSES TO DEVELOP A WASTE PROFILE.
5. FINE-GRAINED MATERIAL WITHIN OS2 STRUCTURE SHALL BE REMOVED BY SUCTION PROVIDED BY A VACUUM TRUCK AND TRANSFERRED TO A SOLIDS STABILIZATION AREA FOR STABILIZATION USING CEMENT KILN DUST. STABILIZED SOLIDS WILL BE TRANSPORTED FOR OFF-SITE DISPOSAL AT UNISYS APPROVED FACILITY.
6. THE VACUUM TRUCK WILL BE DECONTAMINATED BEFORE ARRIVING TO OR DEPARTING FROM THE SITE.
7. EXISTING PIPE CONNECTIONS TO OS2 WILL BE CLOSED BY PLUGGING WITH GROUT. CONCRETE BLOCK SHALL BE PLACED IN THE RECTANGULAR OPENING TO THE SITE CULVERT AND GROUTED CLOSED. CONCRETE BLOCK SHALL BE PLACED IN THE RECTANGULAR OPENING TO THE SITE CULVERT AND 5-FT BOX CULVERT INLET AND GROUTED CLOSED.

0 5' 10'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

Beech and Bonaparte engineering p.c.
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UNISYS

TITLE: OIL SKIMMER PLAN

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE
ELMIRA, NEW YORK

SIGNATURE
10/7/2019
DATE

JACK A. KRASNOWIECKI — STATE OF NEW YORK — 089954-1 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	BGF	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-006
REVIEWED BY:	PLB	DRAWING NO.:	6 OF 11
APPROVED BY:	AK		

CONSTRUCTION DRAWING

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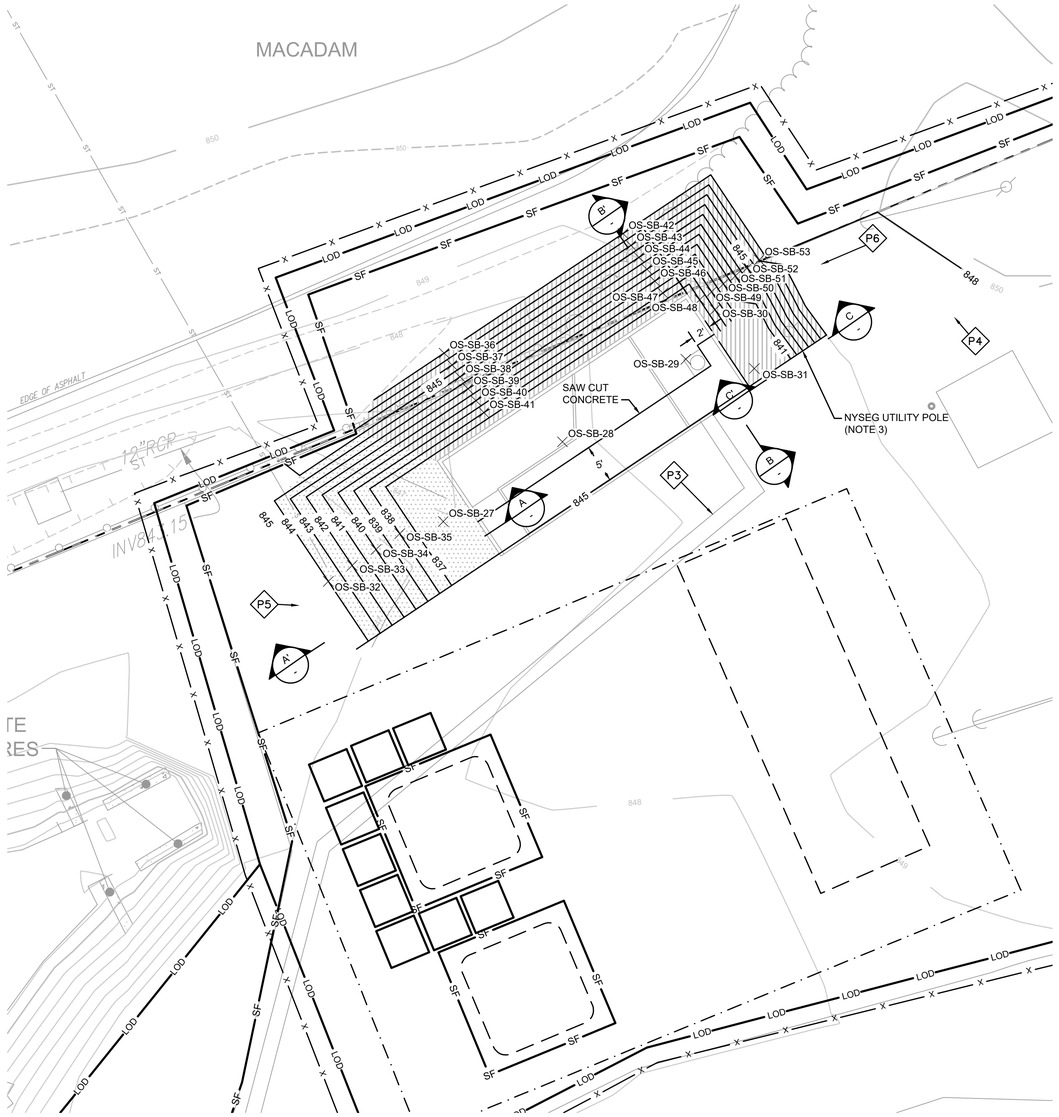


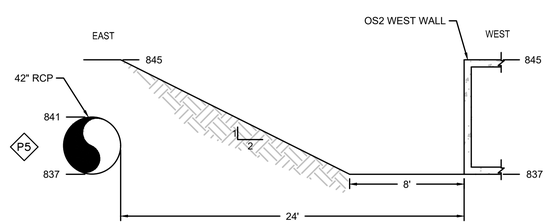
9 — PLAN
OS2 EXCAVATION

LEGEND

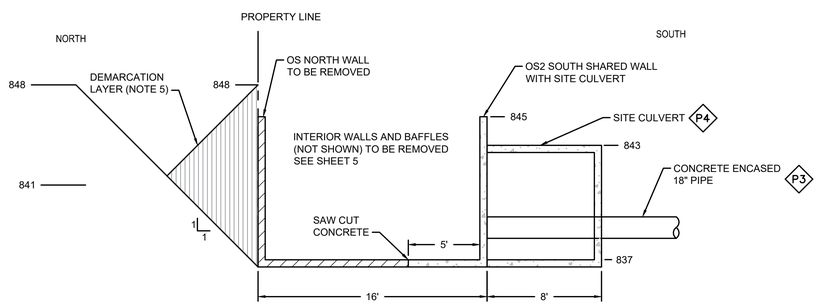
- PROPERTY BOUNDARY
- 845 — EXISTING GRADE CONTOUR (FEET-MSL)
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING UNDERGROUND GAS LINE
- EXISTING UTILITY POLE (AND GUY WIRE)
- SF — SILT FENCE
- x — x — PROPOSED TEMPORARY FENCE
- SOIL WITH PCBS ≥ 50 MG/KG
- SOIL WITH PCBS ≥ 25 MG/KG AND ≤ MG/KG
- ×OS-SB-31 — DOCUMENTATION SAMPLE LOCATION

DOCUMENTATION SAMPLES		
LOC ID	NORTHING	EASTING
OS-SB-27	753624.49	762751.69
OS-SB-28	753635.62	762768.34
OS-SB-29	753647.16	762785.59
OS-SB-30	753654.08	762789.65
OS-SB-31	753645.86	762795.15
OS-SB-32	753616.12	762735.63
OS-SB-33	753618.34	762738.96
OS-SB-34	753620.56	762742.29
OS-SB-35	753622.79	762745.61
OS-SB-36	753648.02	762751.81
OS-SB-37	753646.36	762752.92
OS-SB-38	753644.70	762754.03
OS-SB-39	753643.04	762755.14
OS-SB-40	753641.37	762756.25
OS-SB-41	753639.71	762757.37

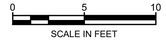
DOCUMENTATION SAMPLES		
LOC ID	NORTHING	EASTING
OS-SB-42	753664.74	762776.81
OS-SB-43	753663.08	762777.92
OS-SB-44	753661.41	762779.03
OS-SB-45	753659.75	762780.14
OS-SB-46	753658.09	762781.25
OS-SB-47	753656.42	762782.36
OS-SB-48	753655.48	762787.51
OS-SB-49	753656.59	762789.17
OS-SB-50	753657.70	762790.84
OS-SB-51	753658.81	762792.50
OS-SB-52	753659.92	762794.16
OS-SB-53	753661.03	762795.83

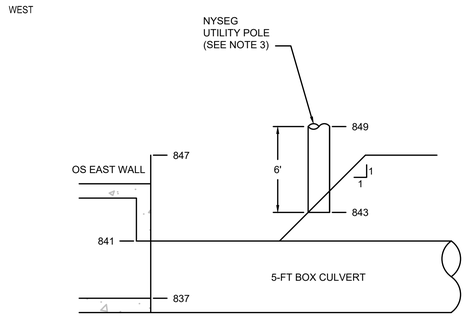


A — SECTION
OIL SKIMMER #2



B — SECTION
OIL SKIMMER #2





C — SECTION
OIL SKIMMER #2

NOTES:

1. SEE SHEET 10 FOR GENERAL NOTES.
2. CONTRACTOR SHALL SUBMIT TO THE ENGINEER AN EXCAVATION WORK PLAN CONFORMING TO THE APPROVED IRM WORK PLAN. ANY MODIFICATIONS OR DEVIATIONS FROM THE APPROVED IRM WORK PLAN MUST BE APPROVED BY NYSDEC.
3. CONTRACTOR SHALL COORDINATE WITH NYSEG FOR SUPPORT OF UTILITY POLES AS NEEDED.
4. ALL EXCAVATION SLOPES/BENCHING BE CONFIRMED BY THE "COMPETENT PERSON" IN ACCORDANCE WITH OSHA CONSTRUCTION SAFETY.
5. SOILS ABOVE THE DEMARCATION LAYER ON EHS PROPERTY ARE PART OF THE SOIL COVER SYSTEM. EXCAVATED SOILS FROM ABOVE THE DEMARCATION SHALL BE STOCKPILED SEPARATELY AND MAY BE USED FOR BACKFILL WITHOUT CHEMICAL TESTING.
6. EXCAVATED SOILS WITH 50 Mg/Kg PCBS OR GREATER SHALL BE SEGREGATED AND STOCKPILED FOR SAMPLING FOR WASTE CHARACTERIZATION BY THE ENGINEER AND LOADED INTO TRUCKS FOR OFF-SITE DISPOSAL UPON APPROVAL OF THE WASTE PROFILE BY THE RECEIVING FACILITY.
7. EXCAVATED SOILS WITH PCBs BELOW 50 Mg/Kg SHALL BE SEGREGATED AND STOCKPILED FOR SAMPLING FOR WASTE CHARACTERIZATION BY THE ENGINEER AND LOADED INTO TRUCKS FOR OFF-SITE DISPOSAL UPON APPROVAL OF THE WASTE PROFILE BY THE RECEIVING FACILITY.
8. ALL VEHICLES LEAVING THE LOADING AREA SHALL BE DECONTAMINATED PRIOR TO LEAVING THE SITE. SEE NOTES ON SHEET 10.
9. DOCUMENTATION SAMPLES WILL BE COLLECTED BY ENGINEER. DOCUMENTATION SAMPLE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BASED ON FIELD OBSERVATIONS AND CHANGES TO THE OIL SKIMMER REMOVAL PLAN. SEE OS2 IRM WORK PLAN FOR DETAILS.
10. PLACE DEMARCATION LAYER NETTING OVER BOTTOM OF EXCAVATION PRIOR TO BACKFILLING. SEE DETAIL 3 ON SHEET 9.
11. ALL MATERIALS IMPORTED TO THE SITE MUST MEET THE REQUIREMENTS OF DER-10 SECTION 5.4(e) AND APPENDIX 5 FOR RESTRICTED RESIDENTIAL USE. ALL CONFORMANCE DATA FOR IMPORTED MATERIALS MUST BE VALIDATED AND APPROVED BY NYSDEC.
12. FILL MATERIAL WILL BE COMPACTED IN ORDER TO MAINTAIN THE INTEGRITY OF THE COVER WITH ACCOMMODATION FOR SETTLING AND SUBSIDENCE AND TO HAVE PERMEABILITY CONSISTENT WITH NATURAL SUBSOILS PRESENT.

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

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UNISYS

TITLE: OIL SKIMMER REMOVAL

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE
ELMIRA, NEW YORK

SIGNATURE
10/7/2019
DATE

STATE OF NEW YORK — JOHN A. KRASNOVSKI — 089954-1 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	BGF	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-007
REVIEWED BY:	PLB	DRAWING NO.:	7 OF 11
APPROVED BY:	AK		

CONSTRUCTION DRAWING

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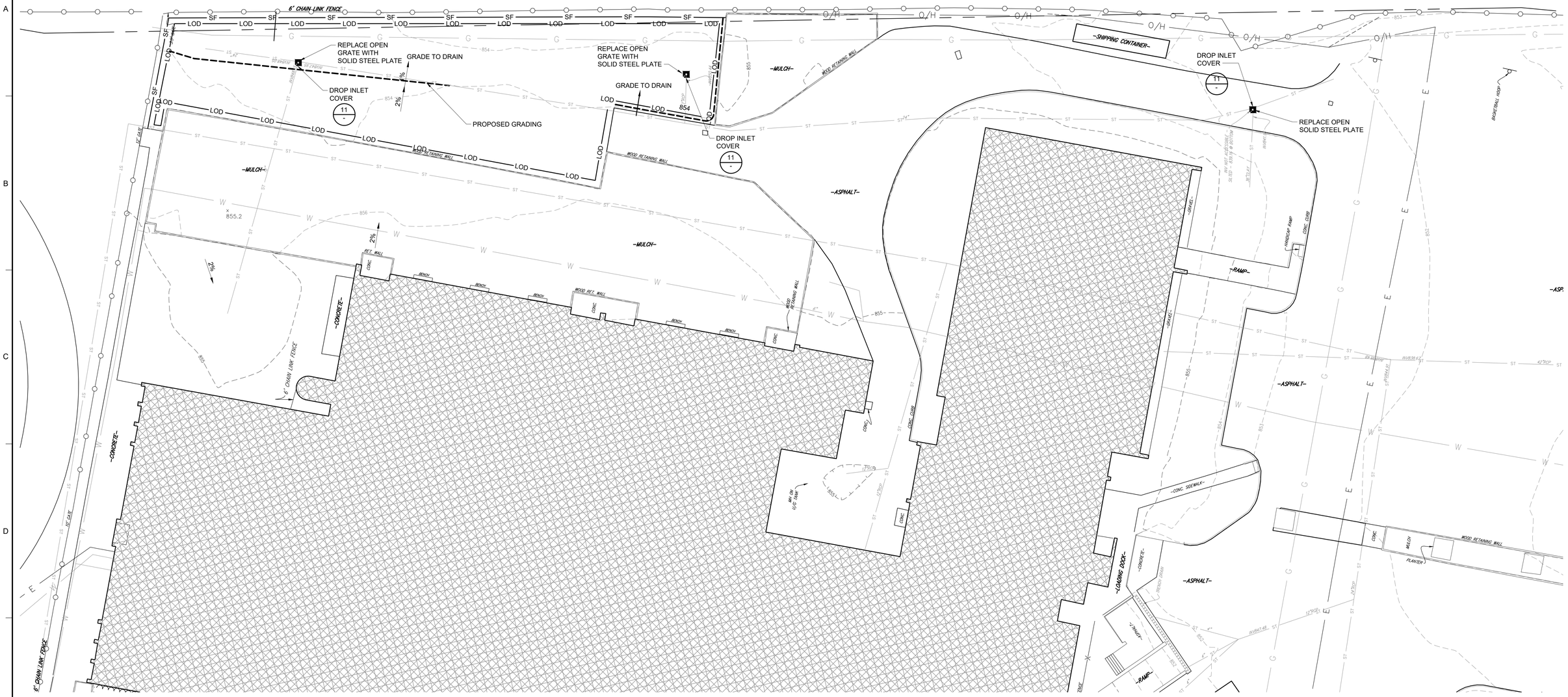

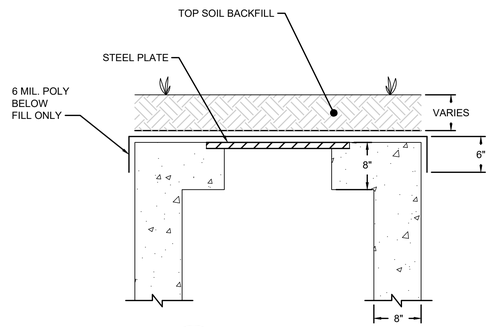

11 / - DETAIL
DROP INLET COVER

SCALE: 1" = 1'

10 / - PLAN
EHS AREA

NOTES:

1. REPLACE OPEN GRATES WITH SOLID TOPS AS SHOWN.
2. EXISTING SOILS SHALL NOT BE EXCAVATED DURING GRADING. GRADE BY FILLING ONLY.
3. ALL MATERIALS IMPORTED TO THE SITE FOR FILL MUST MEET THE REQUIREMENTS OF DER-10 SECTION 5.4(e) AND APPENDIX 5 FOR UNRESTRICTED USE. ALL CONFORMANCE DATA FOR IMPORTED MATERIALS MUST BE VALIDATED AND APPROVED BY NYSDEC.
4. PLACE TOPSOIL AND SOD.

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

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UNISYS

TITLE: SITE PLAN - EHS AREA

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE
ELMIRA, NEW YORK

JOHN A. KRASNOPOLSKY
089954-1
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW YORK

SIGNATURE

10/7/2019
DATE

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	BGF	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-008
REVIEWED BY:	PLB	DRAWING NO.:	8 OF 11
APPROVED BY:	AK		

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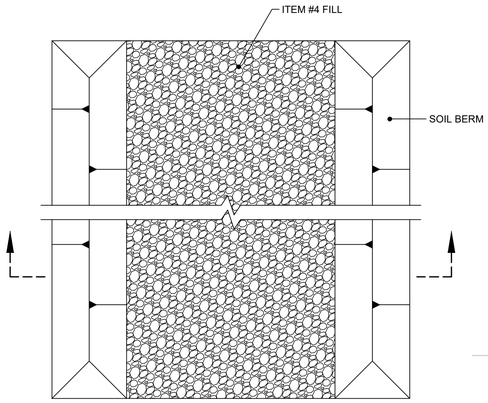
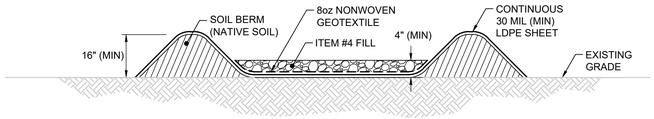


PLAN

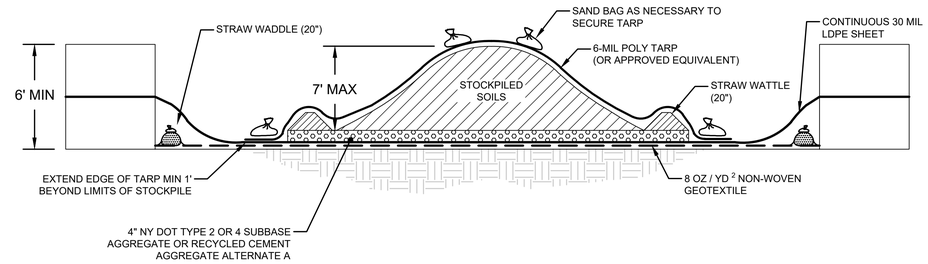


SECTION

LOADING AREA NOTES:

1. SEE DRAWING 5 FOR GENERAL NOTES.
2. LOADING AREA SHALL BE LEVELED USING IMPORTED ITEM #4 FILL, APPROVED BY NYSPEC.
3. CONTRACTOR SHALL PLACE SUMP AT LOWEST POINT OF LOADING AREA. SUMP LOCATION SHALL BE APPROVED BY ENGINEER.
4. LOADING AREA SHALL BE COVERED USING CONTINUOUS 6-MIL POLY SHEETING AT THE END OF EACH DAY AND ON DAYS WHEN NOT IN USE.
5. HAUL TRUCKS SHALL BACK INTO THE TSCA LOADING AREA FOR LOADING.

12/3 DETAIL
LOADING AREA
SCALE: NTS



13/3 DETAIL
SOIL STOCKPILE
SCALE: NTS

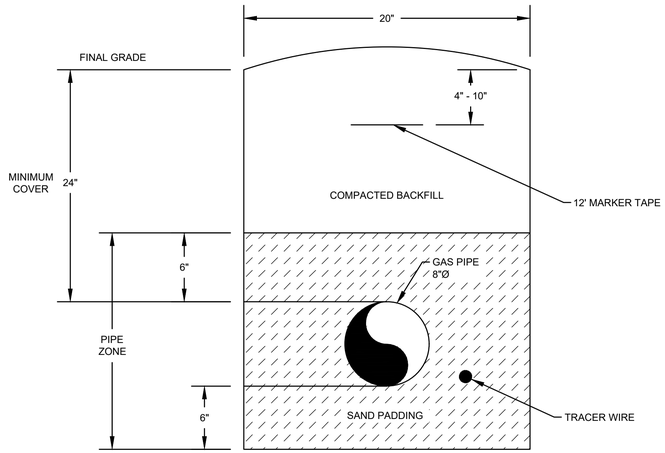
NOTES

SOIL STOCKPILE NOTES

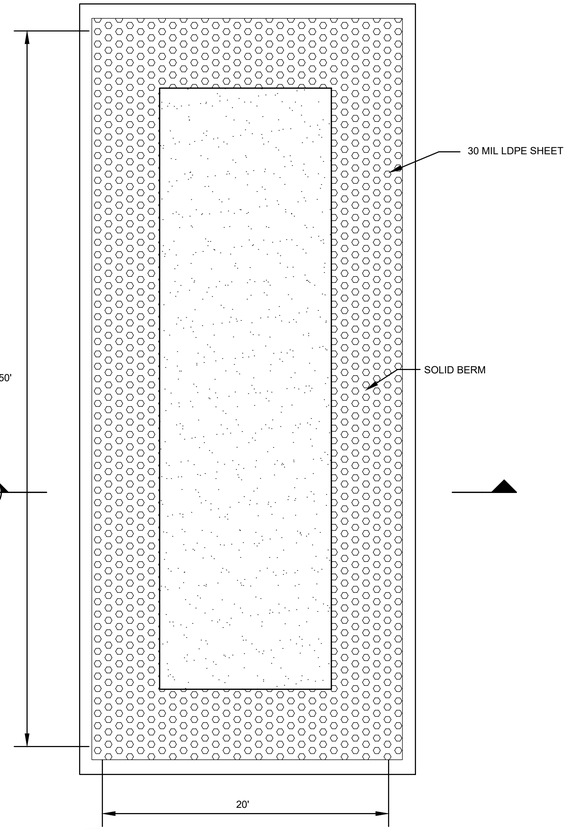
1. AT THE END OF EACH WORK DAY, CONTRACTOR SHALL COMPLETELY COVER STOCKPILED SOILS WITH A SECURED TARP. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SOILS DO NOT MIGRATE FROM STAGING AND STOCKPILE LOCATIONS.
2. ALL STORMWATER RUNOFF SHALL BE CAPTURED WITHIN THE TSCA ACCUMULATION AREA AND NOT ALLOWED TO RUNOFF OR INFILTRATE.
3. THE AREA SHALL BE SLOPED SO THAT RUNOFF DRAINS TO THE SUMP LOCATED AT THE LOWEST POINT. ADDITIONAL SUMPS MAY BE INSTALLED AT OTHER LOW SPOTS WITHIN THE AREA AS NECESSARY.
4. ANY WATER COLLECTED WITHIN THE SUMP SHALL BE SEGREGATED, CHARACTERIZED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL STATE AND FEDERAL REGULATIONS.

TEMPORARY FENCING NOTES

1. PROVIDE 6-FT TALL, PORTABLE CHAIN-LINK FENCE PANELS, SET ON THE EXISTING GROUND SURFACE, COINCIDENT WITH THE LIMIT OF CONSTRUCTION DISTURBANCE.
2. PROVIDE BALLAST, AS NECESSARY, TO PREVENT OVERTURNING OF THE FENCE PANELS.
3. PROVIDE FLEXIBLE, MECHANICAL CONNECTION, BETWEEN FENCE PANELS.
4. PROVIDE FULL-COVERAGE VISUAL SCREENING OVER EACH ENTIRE FENCE PANEL.



15/5 DETAIL
TRENCH
SCALE: NTS

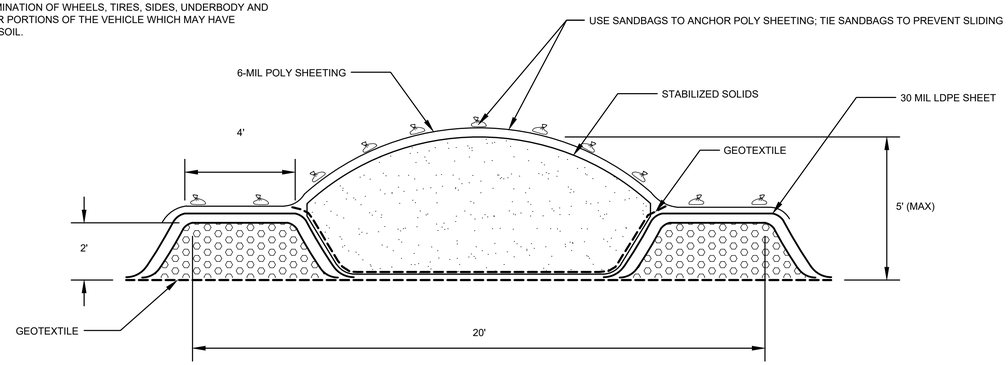


14/3 PLAN
SOLIDS STABILIZATION AREA
SCALE: NTS

NOTES

SOLID STABILIZATON AREA NOTES

1. CONTRACTOR SHALL STABILIZE WET SOLIDS REMOVED FROM OS2 (43 - 65% MOISTURE BASED ON ANALYTICAL RESULTS) WITH CEMENT KILN DUST TO REMOVE EXCESS WATER. MIXING WILL BE PERFORMED IN BATCHES USING AN EXCAVATOR BUCKET OUTFITTED WITH A GUARD TO PREVENT DAMAGE TO THE BOTTOM LINER.
2. AT THE END OF EACH WORK DAY, CONTRACTOR SHALL COMPLETELY COVER STABILIZED SOLIDS WITH A SECURED TARP. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PCB IMPACTED MATERIALS DO NOT MIGRATE FROM STAGING AND STOCKPILE LOCATIONS.
3. CONTRACTOR SHALL PLACE SUMP AT LOWEST POINT OF TSCA LOADING AREA. SUMP LOCATION SHALL BE APPROVED BY ENGINEER.
4. CONTRACTOR SHALL PLACE POLY SHEETING IN THE LOADING AREA PRIOR TO LOADING TRUCKS FOR OFF-SITE TRANSPORT AND DISPOSAL.
5. VEHICLES ENTERING LOADING AREA SHALL BE LOADED AND UNLOADED IN A MANNER THAT PREVENTS CONTACT WITH PCB IMPACTED MATERIALS OUTSIDE OF THE SECURED BED OF THE TRUCK. THIS INCLUDES THE USE OF PLASTIC SHEETING OR EQUIVALENT MATERIALS TO PREVENT SPILLED SOILS FROM CONTACTING THE SIDES OF THE TRUCK AND THE USE OF A CLEAN PHYSICAL BARRIER (PLASTIC SHEETING, ETC.) TO PREVENT TRUCK TIRES FROM TRAVELING DIRECTLY ON PCB IMPACTED SOILS. SHOULD VEHICLES COME INTO CONTACT WITH PCB IMPACTED MATERIALS OUTSIDE OF THE SECURED BED, THEY SHALL BE DECONTAMINATED PRIOR TO LEAVING THE SITE. DECONTAMINATION OF VEHICLES SHALL BE WET DECONTAMINATION OF WHEELS, TIRES, SIDES, UNDERBODY AND ANY OTHER PORTIONS OF THE VEHICLE WHICH MAY HAVE RESIDUAL SOIL.



A/- SECTION
SOLIDS STABILIZATION AREA
SCALE: NTS

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

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UNISYS

TITLE: SOLIDS STABILIZATION AREA PLAN AND DETAILS

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE
ELMIRA, NEW YORK

SIGNATURE
10/7/2019
DATE

JASON A. KRASNOVSKIY — STATE OF NEW YORK — 089954 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	BGF	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-009
REVIEWED BY:	PLB	DRAWING NO.:	9 OF 11
APPROVED BY:	AK		

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EROSION AND SEDIMENT NOTES

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN.
2. THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE ONE CALL SYSTEM INC. SHALL BE NOTIFIED FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
8. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
9. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
10. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
11. WATER FROM ANY WORK AREA SHALL BE CONTAINED IN THE WATER MANAGEMENT AREA FOR CHARACTERIZATION AND OFF-SITE DISPOSAL. SEDIMENT LADEN WATER SHALL BE PUMPED THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG, AND CONTAINED IN THE WATER MANAGEMENT AREA. USED SEDIMENT CONTROL BMP WILL BE CONTAINED IN 55-GALLON DRUMS AS SOLID WASTE.
12. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE SEDIMENT MANAGEMENT AREA BY THE END OF EACH WORK DAY. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
13. SEDIMENT REMOVED FROM BMPS SHALL BE STABILIZED AND CONTAINED IN 55-GALLON DRUMS OR IN THE SEDIMENT MANAGEMENT AREA FOR CHARACTERIZATION AND POTENTIAL OFF-SITE DISPOSAL.
14. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
15. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
16. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR OTHER PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
17. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR MOTHER MOVEMENTS.
18. EROSION AND SEDIMENT BMPS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
19. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
20. AT STREAM CROSSINGS, 50' BUFFER AREAS SHOULD BE MAINTAINED. ON BUFFERS, CLEARING, SOD DISTURBANCES, EXCAVATION, AND EQUIPMENT TRAFFIC SHOULD BE MINIMIZED. ACTIVITIES SUCH AS STACKING LOGS, BURNING CLEARED BRUSH, DISCHARGING RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE ACCOMPLISHED OUTSIDE OF BUFFERS.
21. ALL WETLANDS MUST BE DELINEATED AND PROTECTED WITH ORANGE SAFETY FENCE PRIOR TO ANY EARTHMOVING ACTIVITY.
22. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN
23. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER WITHIN 50 FEET OF A SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.

TOPSOIL AND VEGETATION

1. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING.
2. PERMANENT TURF GRASS FOR SOIL STABILIZATION SHALL BE IN ESTABLISHED IN ACCORDANCE WITH NEW YORK STATE DOT STANDARD SPECIFICATIONS, SECTION - 610 TURF AND WILDFLOWER ESTABLISHMENT. SEE SEED SPECIES SHALL BE AS FOLLOWS:

NAME	VARIETY	RATE
RED FESCUE (FESTUCA RUBRA)	COMMERCIAL	50 LBS/ACRE
PERENNIAL RYEGRASS (LOLIUM PERENNE)	COMMERCIAL	30 LBS /ACRE
WHITE CLOVER (TRIFOLIUM REPENS) (MAX. 25% HARD SEED)	COMMERCIAL	5 LBS / ACRE

EARTHWORK

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY PLACE AND COMPACT ALL MATERIALS SPECIFIED IN THE CONTRACT DOCUMENTS, AND TO CORRECT ANY DEFICIENCIES RESULTING FROM INSUFFICIENT OR IMPROPER COMPACTION OF SUCH MATERIALS THROUGHOUT THE CONTRACT PERIOD. THE CONTRACTOR SHALL DETERMINE THE TYPE, SIZE AND WEIGHT OF COMPACTOR BEST SUITED TO THE WORK AT HAND, SELECT AND CONTROL THE LIFT (LAYER) THICKNESS, EXERT CONTROL OVER THE MOISTURE CONTENT OF THE MATERIAL, AND OTHER DETAILS NECESSARY TO OBTAIN SATISFACTORY RESULTS
2. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
3. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
4. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
5. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
6. BACKFILL FOR STRUCTURES AND PIPE SHALL BE SELECT GRANULAR FILL IN ACCORDANCE WITH NEW YORK STATE DOT STANDARD SPECIFICATIONS, SECTION 20-2.02.C. RECYCLED ASPHALT PAVEMENT (RAP) SHALL NOT BE ALLOWED.
7. IN AREAS INACCESSIBLE TO CONVENTIONAL COMPACTORS, OR WHERE MANEUVERING SPACE IS LIMITED, IMPACTOR RAMMERS, PLATE OR SMALL DRUM VIBRATORS, OR PNEUMATIC BUTTON-HEAD COMPACTION EQUIPMENT MAY BE USED WITH LAYER THICKNESS NOT EXCEEDING 6 INCHES BEFORE COMPACTION. HAND TAMPERS SHALL NOT BE PERMITTED.
8. FILL OR BACKFILL MATERIAL AT STRUCTURES, CULVERTS AND PIPES SHALL BE DEPOSITED IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN THICKNESS PRIOR TO COMPACTION. A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY WILL BE REQUIRED. WHEN PLACING FILL OR BACKFILL AROUND CULVERTS AND PIPES, LAYERS SHALL BE DEPOSITED TO PROGRESSIVELY BURY THE PIPE OR CULVERT TO EQUAL DEPTHS ON BOTH SIDES.

CONCRETE/GROUT

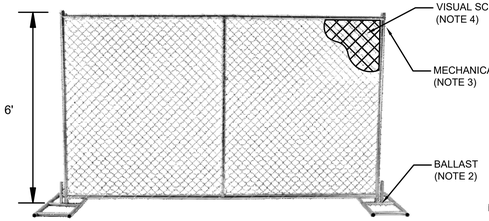
1. CONCRETE/GROUT WASH WATER SHALL NOT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
2. CONCRETE GROUT FOR SEALING/ABANDONING PIPES SHALL BE A FINE AGGREGATE CONCRETE WITH MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,000 PSI.

DECONTAMINATION

1. THE CONTRACTOR SHALL PERFORM DECONTAMINATION OF ANY TRUCKS OR EQUIPMENT CONTACTING OR SUSPECTED OF CONTACTING PCB IMPACTED MATERIAL PRIOR TO TRAVERSING AREAS NOT SPECIFICALLY DESIGNATED AS IMPACTED AREAS, PRIOR TO HANDLING CLEAN SOILS, AND PRIOR TO DEPARTURE FROM THE SITE.
2. TRUCKS AND EQUIPMENT TRANSPORTING PCB IMPACTED MATERIAL SHALL BE LOADED IN A MANNER THAT PREVENTS CONTACT WITH PCB IMPACTED MATERIAL OUTSIDE OF THE SECURED BED OF THE TRUCK. THIS INCLUDES THE USE OF PLASTIC SHEETING OR EQUIVALENT MATERIALS TO PREVENT SPILLED MATERIAL FROM CONTACTING THE SIDES OF THE TRUCK AND THE USE OF A CLEAN PHYSICAL BARRIER (PLASTIC SHEETING, ETC.) TO PREVENT TRUCK TIRES FROM TRAVELING DIRECTLY ON PCB IMPACTED SOILS. TRUCKS AND EQUIPMENT THAT COME INTO CONTACT WITH PCB IMPACTED MATERIAL OUTSIDE OF THE SECURED BED SHALL BE DECONTAMINATED PRIOR TO LEAVING THE SITE.
3. ALL DECONTAMINATION ACTIVITIES WILL OCCUR AT A DESIGNATED DECONTAMINATION AREA. CONTRACTOR WILL BE RESPONSIBLE FOR BUILDING A DECONTAMINATION PAD THAT WILL COLLECT ALL SOLIDS AND LIQUIDS GENERATED DURING DECONTAMINATION.
4. EQUIPMENT THAT WILL CONTACT POTENTIALLY CONTAMINATED SOIL, SEDIMENT OR WATER WILL BE DECONTAMINATED BY THOROUGHLY CLEANING WITH A HIGH PRESSURE WASH AND RINSE TO REMOVE MUD, SOIL, AND OTHER FOREIGN MATERIAL.
5. OTHER SMALLER EQUIPMENT SUCH AS A PUMP TO MANAGE WATER WITHIN THE WORK AREA WILL BE DECONTAMINATED AS FOLLOWS:
   a. WASH EQUIPMENT THOROUGHLY WITH A DETERGENT (ALCONOX OR LIQUINOX) AND A POTABLE WATER SOLUTION TO REMOVE CONTAMINATION FROM THE EQUIPMENT; AND
   b. RINSE TWICE WITH A POTABLE WATER SOURCE TO RINSE AWAY RESIDUAL DETERGENT SOLUTION.
6. ALL DECONTAMINATION LIQUIDS AND SOLIDS WILL BE CONTAINERIZED FOR OFF-SITE DISPOSAL AT UNISYS APPROVED FACILITY.

HEALTH AND SAFETY

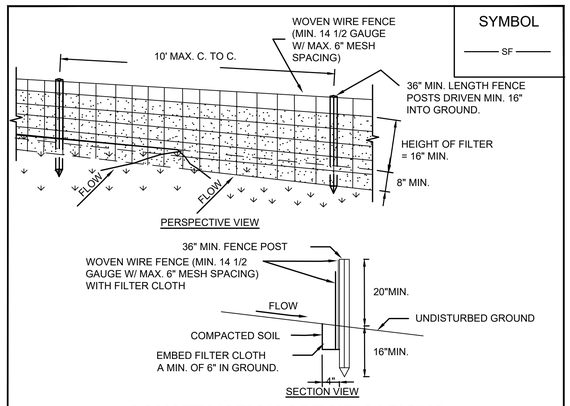
1. ALL SITE ACTIVITIES WILL BE PERFORMED IN SUCH A MANNER AS TO ENSURE THE SAFETY AND HEALTH OF ALL PERSONNEL AND THE SURROUNDING COMMUNITY.
2. ALL SITE ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ALL PERTINENT GENERAL INDUSTRY (29 CFR 1910) AND CONSTRUCTION (29 CFR 1926) OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) STANDARDS, AS WELL AS ANY OTHER APPLICABLE NEW YORK STATE AND MUNICIPAL CODES OR ORDINANCES.
3. CONTRACTOR SHALL PREPARE A HEALTH AND SAFETY PLAN (HASP) IN ACCORDANCE WITH 29 CFR 1910.120. THE HASP SHALL CONFORM TO THE REQUIREMENTS OF 29 CFR 1910.120 AND ALL APPLICABLE STATE, FEDERAL, LOCAL, AND OTHER HEALTH AND SAFETY REQUIREMENTS AND SAFE CONSTRUCTION PRACTICES NOT SPECIFICALLY IDENTIFIED IN THESE REQUIREMENTS.
4. ENTRY INTO OS2 AND OTHER STORMWATER STRUCTURES WILL BE EVALUATED FOR CONFINED SPACE ENTRY REQUIREMENTS IN ACCORDANCE WITH 29 CFR 1910.146.
5. CONTINUOUS REAL-TIME PARTICULATE AND VOC MONITORING WILL BE CONDUCTED AT THE UPWIND AND DOWNWIND PERIMETER OF THE EXCLUSION ZONE USING PORTABLE MONITORS. A MINIMUM OF ONE UPWIND AND FOUR DOWNWIND LOCATIONS SHALL BE MONITORED. THE FOUR DOWNWIND LOCATIONS SHALL BE EQUALLY DISTRIBUTED ALONG THE PERIMETER OF THE WORK AREA. AIR MONITORING SHALL BE CONDUCTED DURING EXCAVATION, GRADING, PLACEMENT OF CLEAN FILL, OR OTHER ACTIVITIES WHICH MAY GENERATE FUGITIVE DUST.



NOTES:

1. PROVIDE 6-FT TALL, PORTABLE CHAIN-LINK FENCE PANELS, SET ON THE EXISTING GROUND SURFACE, COINCIDENT WITH THE LIMIT OF CONSTRUCTION DISTURBANCE.
2. PROVIDE BALLAST, AS NECESSARY, TO PREVENT OVERTURNING OF THE FENCE PANELS.
3. PROVIDE FLEXIBLE, MECHANICAL CONNECTION, BETWEEN FENCE PANELS.
4. PROVIDE FULL-COVERAGE VISUAL SCREENING OVER EACH ENTIRE FENCE PANEL.

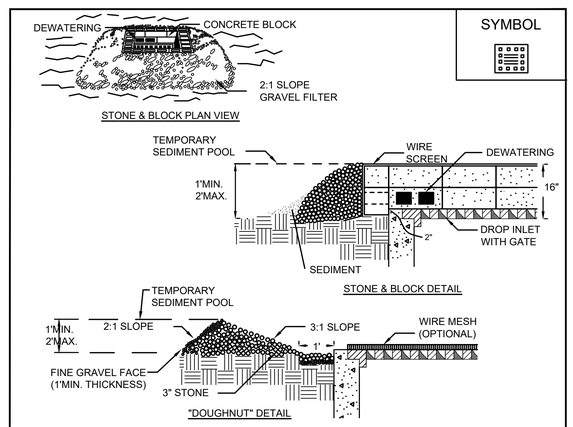
16/3 DETAIL
TEMPORARY FENCE
SCALE: NTS



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	SILT FENCE



CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	STONE & BLOCK DROP INLET PROTECTION

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

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

UNISYS

TITLE: DETAILS AND NOTES

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE
ELMIRA, NEW YORK

SIGNATURE
10/7/2019
DATE

ARUN A. KHANDPUR — STATE OF NEW YORK — 089964-1 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	BGF	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-010
REVIEWED BY:	PLB	DRAWING NO.:	10 OF 11
APPROVED BY:	AK		

CONSTRUCTION DRAWING

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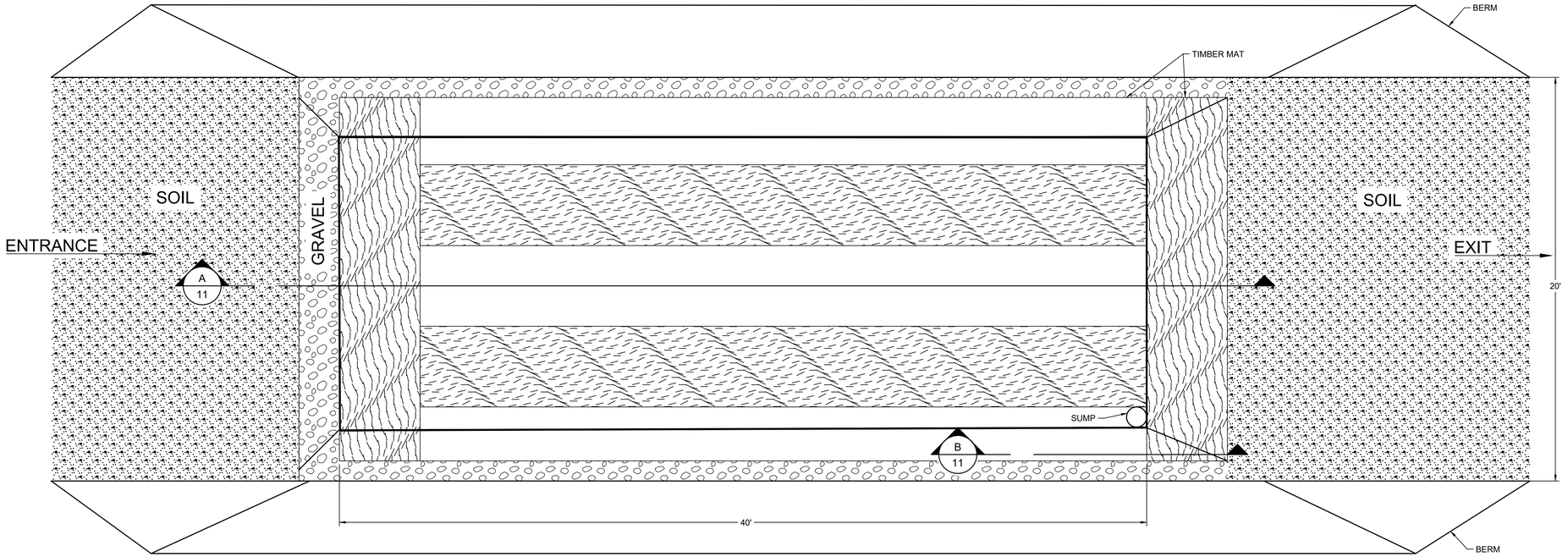
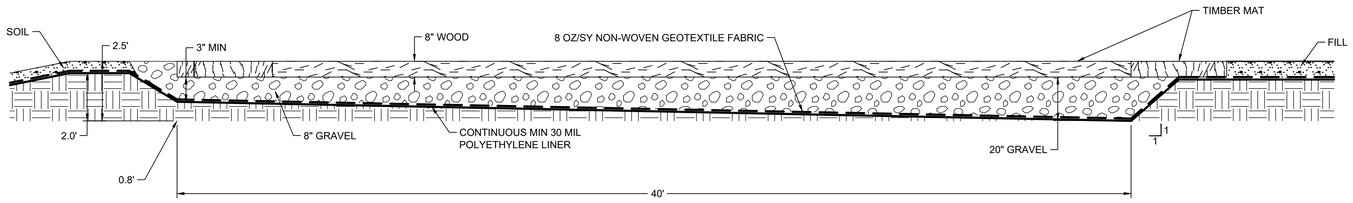
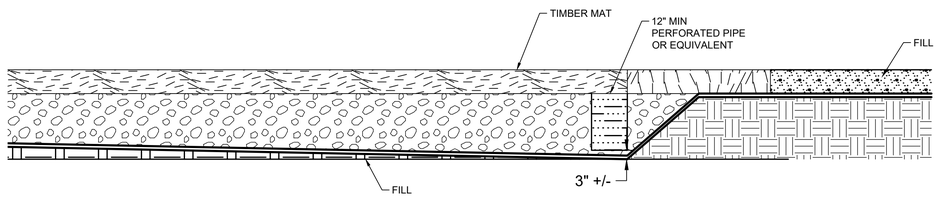


17/3 PLAN
EQUIPMENT WASH PAD
SCALE: NOT TO SCALE



A/11 SECTION
EQUIPMENT WASH PAD
SCALE: NOT TO SCALE



B/11 SECTION
EQUIPMENT WASH PAD SUMP
SCALE: NOT TO SCALE

NOTES:

1. ALL EQUIPMENT RINSE WATER SHALL BE CAPTURED WITHIN THE PAD AND NOT ALLOWED TO RUNOFF OR INFILTRATE.
2. INTERIOR BASE SHALL BE SLOPED SO THAT CAPTURED WATER DRAINS TO THE SUMP LOCATED AT THE LOWEST POINT. ADDITIONAL SUMPS MAY BE INSTALLED AT OTHER LOW SPOTS WITHIN THE AREA AS NECESSARY.
3. ANY WATER COLLECTED WITHIN THE EQUIPMENT WASH PAD SUMP SHALL BE SEGREGATED, CHARACTERIZED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL STATE AND FEDERAL REGULATIONS.

CONSTRUCTION DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	10-07-19	RESPONSES TO AGENCY COMMENTS	BGF	AK
1	3-13-19	RESPONSES TO AGENCY COMMENTS	BGF	AK

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

UNISYS

TITLE: EQUIPMENT WASH PAD DETAILS

PROJECT: OS2 INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE
ELMIRA, NEW YORK

SIGNATURE
10/7/2019
DATE

STATE OF NEW YORK — JOHN A. KRASNOPOLSKY — 089954 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	AK	DATE:	NOVEMBER 2018
DRAWN BY:	BGF	PROJECT NO.:	MN0832A
CHECKED BY:	WMS	FILE:	MN0832A-011
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK		11 OF 11

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