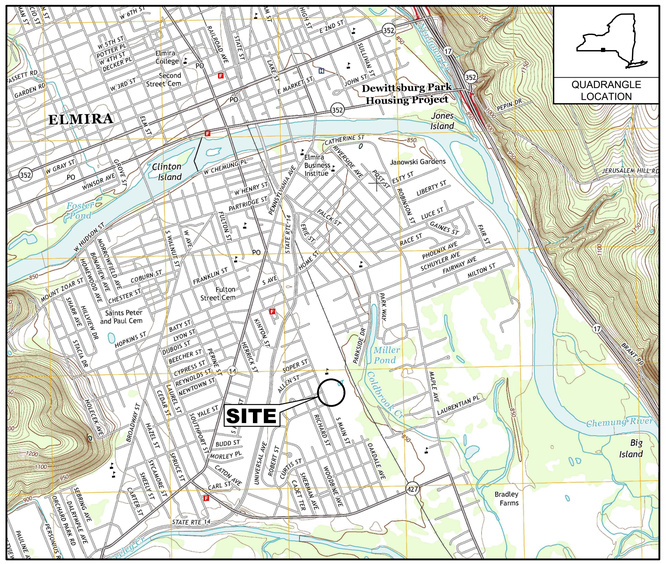
INTERIM REMEDIAL MEASURE

ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

JUNE 2017



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

LOCATION MAP

DRAWING LIST	
DRAWING NO.	DRAWING TITLES
1	TITLE SHEET
2	OVERALL EXISTING CONDITIONS
3	EXISTING CONDITIONS - NORTH
4	EXISTING CONDITIONS - SOUTH
5	DEMOLITION PLAN - NORTH
6	DEMOLITION PLAN - SOUTH
7	EXCAVATION PLAN - NORTH
8	EXCAVATION PLAN - SOUTH
9	DETAILS I
9B	DETAILS II
10	SHORING PLAN
11	EROSION AND SEDIMENT CONTROL PLAN - NORTH
12	EROSION AND SEDIMENT CONTROL PLAN - SOUTH
13	EROSION AND SEDIMENT CONTROL DETAILS
14	MATERIAL STAGING AREA PLAN (MSA) PLAN

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

26 CENTURY HILL DRIVE, SUITE 205
LATHAM, NEW YORK 12110
PHONE: (518) 785-0800

REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
5	6-30-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
4	6-13-17	ADDRESS NYSDEC COMMENTS	TSJ	WMS/AK
3	5-31-17	REVISE EXCAVATION AREAS AND SOIL STOCKPILE LOCATION	TSJ	WMS/AK
2	5-12-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: COVER SHEET

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE 7/11/2017 DATE

STATE OF NEW YORK — ALAN A. KRASNOPOLER — 089954-1 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	TBR	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-401
REVIEWED BY:	PLB	DRAWING NO.:	1 OF 14
APPROVED BY:	AK		

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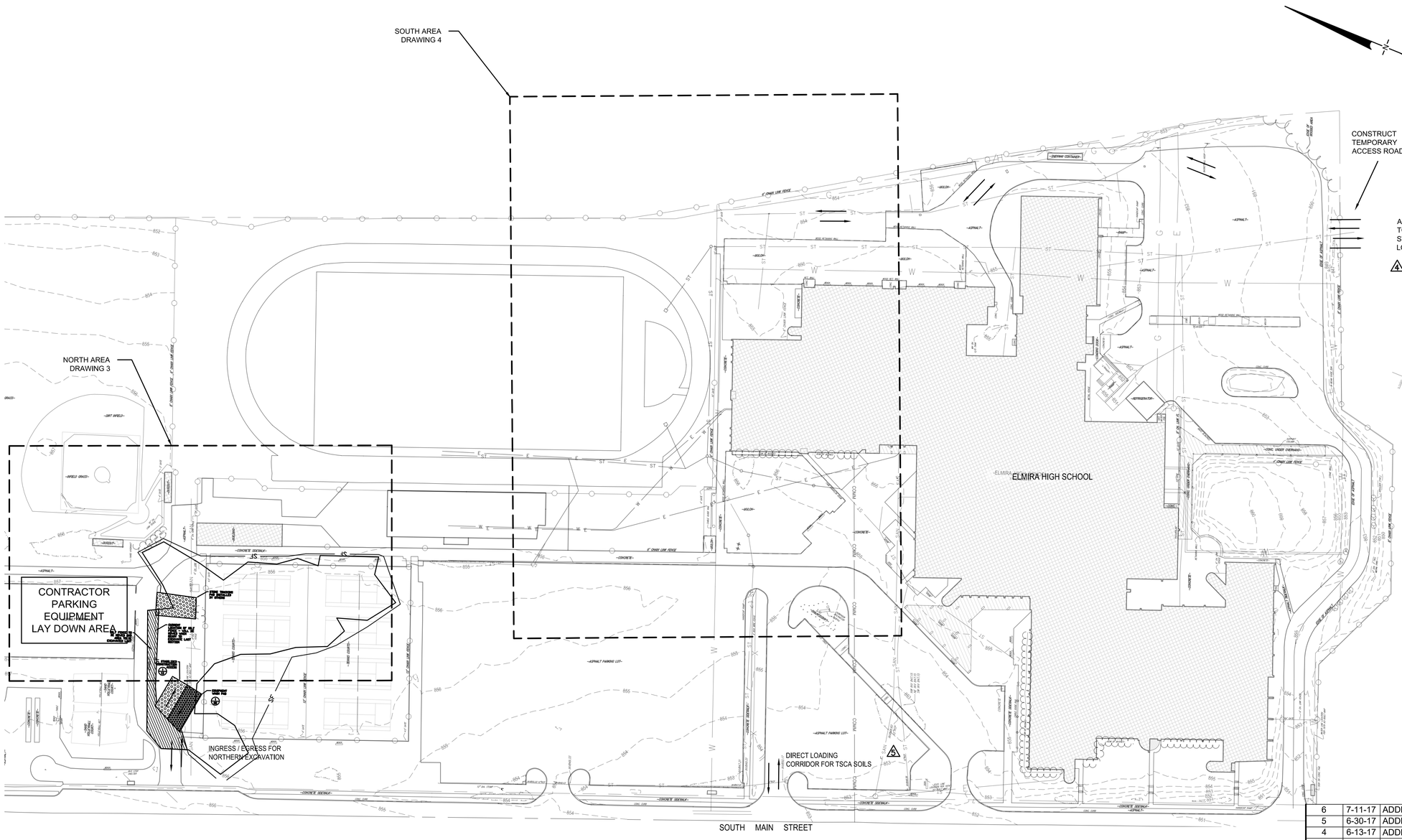

LEGEND

	MANHOLE
	CATCH BASIN
12"CMP	CULVERT PIPE
	CHAIN LINK FENCE
	WOODEN FENCE
℄	PROPERTY LINE
80	EXISTING CONTOUR LINE
	EDGE OF WATER
	EDGE OF WOODS OR BRUSH
SAN	SANITARY SEWER
ST	STORM SEWER
G	GAS PIPELINE
W	WATER PIPELINE
	INGRESS / EGRESS FOR EXCAVATION

4 1 CONSTRUCTION SEQUENCE:

1. INSTALL/MAINTAIN TEMPORARY SEDIMENT AND EROSION CONTROLS. PURSUANT TO DRAWINGS 11 TO 13 AND IN ACCORDANCE WITH APPROVED SWPPP.
2. EXCAVATE SOILS AND SEGREGATE INTO SOILS WITH TOTAL PCBS ≥ 50 MG/KG FOR DISPOSAL, SOILS WITH TOTAL PCBS < 50 BUT ≥ 10 MG/KG FOR DISPOSAL, AND SOILS WITH TOTAL < 10 MG/KG FOR RE-USE AS BACKFILL ENSURING THAT IMPACTED SOILS ARE EXCAVATED TO THE DEPTHS SHOWN ON DRAWINGS 7 AND 8. SEE SECTION 02110.
3. REMOVE EXISTING UTILITIES WITHIN LIMITS OF EXCAVATION. CAP OR OTHERWISE PRESERVE ENDS OF UTILITIES TO ENABLE RE-CONNECTION IN-KIND REPLACEMENTS. REMOVED UTILITIES SHALL BE CHARACTERIZED FOR OFF-SITE DISPOSAL.
4. BACKFILL THE EXCAVATION USING STOCKPILED SOILS THAT ARE APPROVED FOR RE-USE. SEE DETAIL 7 ON DRAWING 9.
5. RECONSTRUCT IN-KIND REMOVED UTILITIES.
6. FINISH EXCAVATION BACKFILL WITH APPROVED, OFF-SITE BORROW. THE UPPERMOST 2 FEET OF BACKFILL SHALL CONSIST OF A SOIL COVER SYSTEM. SEE DETAIL 7 ON DRAWING 9.
7. REMOVE TEMPORARY ACCESS ROADS AND WASH PADS. IN ACCORDANCE WITH SECTION 2.4 - SITE RESTORATION OF APPROVED IRM WORK PLAN.
8. AMEND TOPSOIL AND INSTALL PERMANENT VEGETATION IN LOCATIONS THAT ARE TO BE GRASSED.
9. REMOVE TEMPORARY SEDIMENT AND EROSION CONTROLS. SEE SECTIONS.

GENERAL NOTES:

1. EXISTING TOPOGRAPHY IS FROM A TOPOGRAPHIC SURVEY BY HUNT ENGINEERS, ARCHTECTS, 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).

   UNDERGROUND UTILITIES SHOWN WERE MAPPED USING A COMBINATION 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.
2. CONSTRUCTION TRAFFIC PATTERNS MAY BE MODIFIED BY CONTRACTOR AS NECESSARY SUBJECT TO ENGINEER APPROVAL.
3. CONTRACTOR SHALL NOTIFY CHEMUNG SOIL CONSERVATION DISTRICT AT LEAST 72 HOURS PRIOR TO EARTH DISTURBING ACTIVITIES.
4. CONTRACTOR SHALL NOTIFY CHEMUNG SOIL CONSERVATION DISTRICT AFTER SITE HAS BEEN CONSTRUCTED AND PROPERLY STABILIZED AND ACHIEVED AT LEAST 70 PERCENT STABILIZATION.
5. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED IRM WORK PLAN. ANY PROPOSED MODIFICATION TO THE WORK PLAN MUST BE APPROVED BY NYSDEC.

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0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: OVERALL EXISTING CONDITIONS

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

VICINITY MAP

0 60' 120'
SCALE IN FEET

SIGNATURE 8/8/2017
DATE

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

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-402
REVIEWED BY:	PLB	DRAWING NO.:	2 OF 14
APPROVED BY:	AK		

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BASELINE DIAMOND

RUNNING TRACK

BUILDING

SIDEWALK

EXCAVATION LIMITS

STONE TRACKING PAD INSTALLED BY OTHERS

CONTRACTOR PARKING AND EQUIPMENT LAYDOWN AREA

ASPHALT DRIVE

TENNIS COURTS

SAND VOLLEYBALL COURTS

INGRESS / EGRESS ROUTE FOR TRUCKS

LEGEND

- MANHOLE
- CATCH BASIN
- CULVERT PIPE
- CHAIN LINK FENCE
- WOODEN FENCE
- PROPERTY LINE
- EXISTING CONTOUR LINE
- EDGE OF WATER
- EDGE OF WOODS OR BRUSH
- SANITARY SEWER
- STORM SEWER
- GAS PIPELINE
- WATER PIPELINE
- EXCAVATION LIMITS 3
- LIMIT OF CONSTRUCTION DISTURBANCE 1/11 2 3

NOTES:

1. EXISTING TENNIS COURT SURFACE AND FENCING TO BE REMOVED BY OTHERS PRIOR TO THE START OF THE WORK.
2. SEE DRAWING 2 FOR GENERAL NOTES.

0 20' 40'
SCALE IN FEET

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0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

Beech and Bonaparte engineering p.c.
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UNISYS

TITLE: EXISTING CONDITIONS - NORTH

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
7/11/2017
DATE

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

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-403
REVIEWED BY:	PLB	DRAWING NO.:	3 OF 14
APPROVED BY:	AK		

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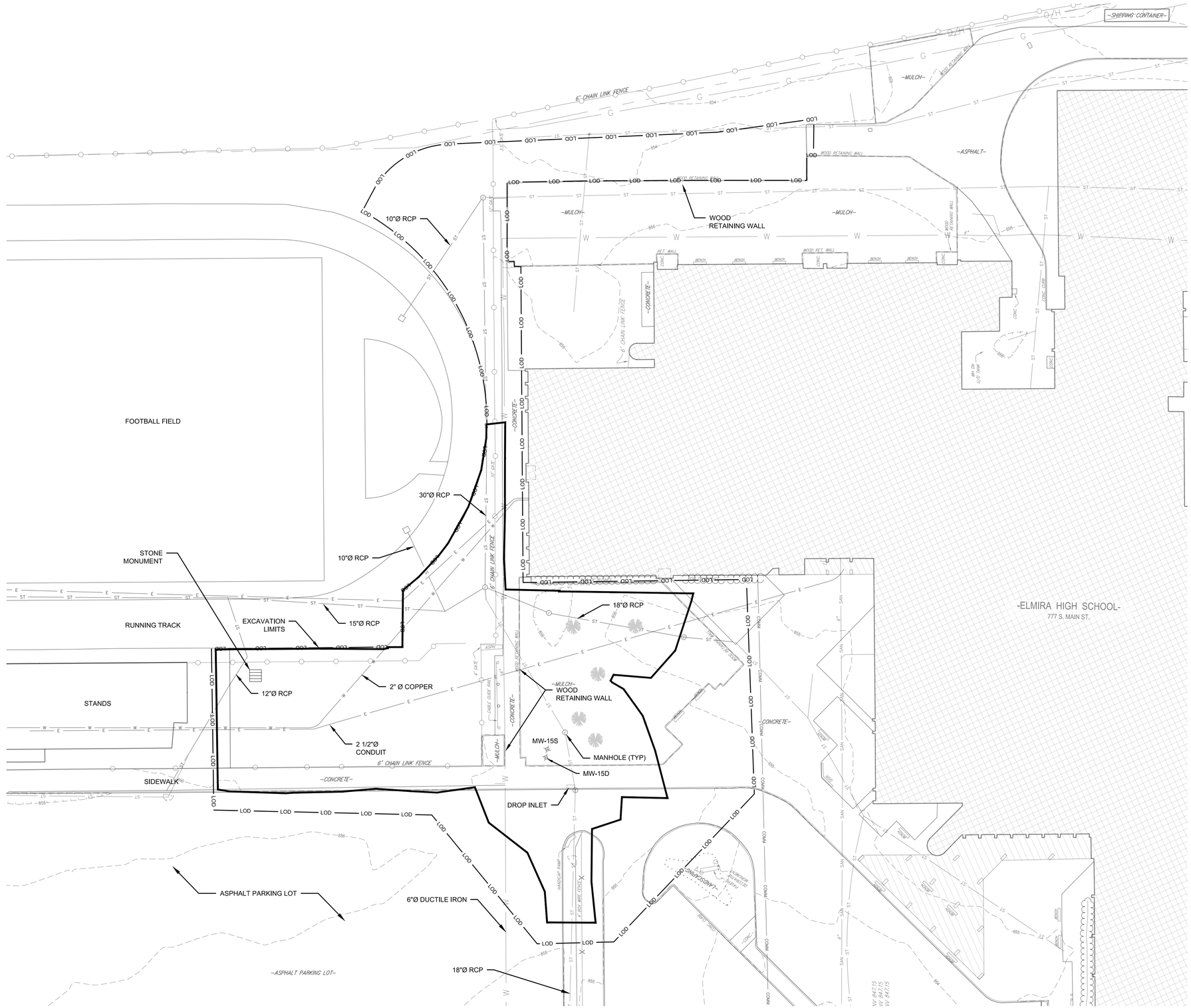

LEGEND

	MANHOLE
	CATCH BASIN
12"DMP	CULVERT 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 LINER
W	WATER LINE
W	COMMUNICATION LINE
	EXCAVATION LIMITS 3
	TREE
MW15D	MONITORING WELL
LOD	LIMIT OF CONSTRUCTION DISTURBANCE 1/11 2

NOTES:

1. SEE DRAWING 2 FOR GENERAL NOTES.

0 30' 60'
SCALE IN FEET

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0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: EXISTING CONDITIONS - SOUTH

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
7/11/2017
DATE

STATE OF NEW YORK · ANNA L. KRASNOPOLSKY · 089954 · LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-404
REVIEWED BY:	PLB	DRAWING NO.:	4 OF 14
APPROVED BY:	AK		

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BASEBALL DIAMOND

RUNNING TRACK

BUILDING

SIDEWALK

EXCAVATION LIMITS

STONE TRACKING PAD INSTALLED BY OTHERS

CONTRACTOR PARKING AND EQUIPMENT LAYDOWN AREA

TENNIS COURTS

SANITARY SEWER TO BE REMOVED (IF REQUIRED FOR EXCAVATION)

CURRENT LOCATION OF SILT FENCE - WILL BE MOVED WHEN READY TO EXCAVATE LAST SECTION

SILT FENCE TO BE MOVED AND AREA TO BE EXCAVATED LAST

EXCAVATION LIMITS

ASPHALT DRIVE

STABILIZED CONSTRUCTION ACCESS (1/13)

EQUIPMENT WASH PAD (1/9B)

SAND VOLLEYBALL COURTS

INGRESS / EGRESS ROUTE FOR TRUCKS

12' CHAIN LINK FENCE

LEGEND

	MANHOLE
	CATCH BASIN
12"CMP	CULVERT PIPE
	CHAIN LINK FENCE
	WOODEN FENCE
℄	PROPERTY LINE
90	EXISTING CONTOUR LINE
	EDGE OF WATER
	EDGE OF WOODS OR BRUSH
SAN	SANITARY SEWER
ST	STORM SEWER
G	GAS PIPELINE
W	WATER PIPELINE
	EXCAVATION LIMITS (3)
	OBJECT TO BE DEMOLISHED
LOD	LIMIT OF CONSTRUCTION DISTURBANCE (1/11) (2) (3)
SF	SILT FENCE

(1)

(4) NOTES:

1. EXISTING UTILITIES SHOWN HAVE BEEN LOCATED BASED ON AVAILABLE RECORD DRAWINGS. THE LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES TO CONFIRM THEIR LOCATION, TYPE AND SIZE PRIOR TO INITIATING SOIL EXCAVATOR OR DRIVING SHEET PILES.
2. UTILITIES WITHIN THE EXCAVATION SHALL BE REMOVED DURING EXCAVATION CHARACTERIZED FOR OFF-SITE DISPOSAL AND REPLACED IN-KIND AS THE EXCAVATION IS BACKFILLED. PROVIDE TEMPORARY RELOCATION OF UTILITIES DURING CONSTRUCTION. CUT AND TEMPORARILY CAP UTILITIES IN A MANNER THAT ALLOWS FOR RE-CONNECTION OF IN-KIND REPLACEMENT UTILITIES DURING BACKFILLING.
3. FENCING THAT INTERFERES WITH THE WORK SHALL BE REMOVED AND MATERIALS DISPOSED OFF-SITE FOR RECYCLING.
4. CONCRETE AND ASPHALT PAVING THAT INTERFERES WITH THE WORK SHALL BE SAW CUT AND REMOVED AND DISPOSED OFF-SITE AT A PERMITTED FACILITY. ASPHALT PAVEMENT AND SIDEWALK WILL REQUIRE REPLACEMENT FOLLOWING EXCAVATION. SEE DRAWING 9 FOR DETAIL.
5. TREES AND WOODY VEGETATION SHALL BE CUT FLUSH WITH THE GROUND SURFACE AND DISPOSED OF OFF-SITE AT A PERMITTED LAND CLEARING MANAGEMENT FACILITY. ROOT BALLS SHALL BE SEGREGATED AND CHARACTERIZED FOR OFF-SITE DISPOSAL.
6. CONTRACTOR SHALL INSTALL TEMPORARY 6-FOOT TALL CHAIN LINK FENCING PARALLEL THE LIMITS OF CONSTRUCTION DISTURBANCE. FENCING SHALL INCLUDE VISUAL SCREENING.
7. SEE DRAWING 2 FOR GENERAL NOTES.

0 20' 40'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
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0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

Beech and Bonaparte engineering p.c.
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UNISYS

TITLE: DEMOLITION PLAN - NORTH

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE 8/11/2017 DATE

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

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-405
REVIEWED BY:	PLB	DRAWING NO.:	5 OF 14
APPROVED BY:	AK		

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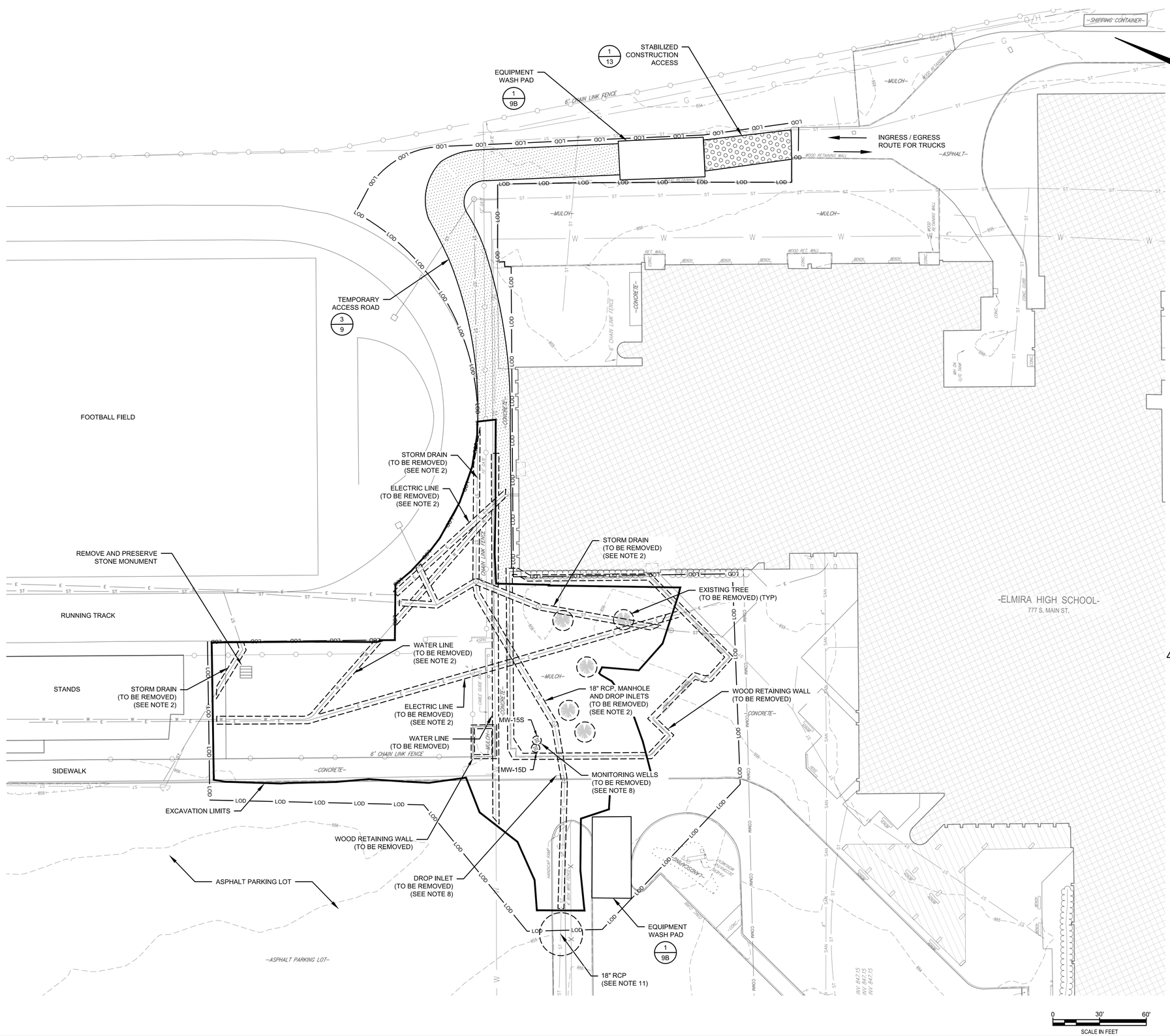

LEGEND

- 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 LINER
- WATER LINE
- EXCAVATION LIMITS 3
- TREE
- MW15D MONITORING WELL
- OBJECT TO BE REMOVED
- LOD LIMIT OF CONSTRUCTION DISTURBANCE 1/11 2

WELL NO.	WELL DEPTH FROM GROUND SURFACE (FEET)
MW-15D	76.5
MW-15S	19.0

1 4

NOTES:

1. EXISTING UTILITIES SHOWN HAVE BEEN LOCATED BASED ON AVAILABLE RECORD DRAWINGS. THE LOCATIONS SHOWN SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES TO CONFIRM THEIR LOCATION, TYPE AND SIZE PRIOR TO INITIATING SOIL EXCAVATION OR DRIVING SHEET PILES.
2. UTILITY REMOVAL WILL BE LIMITED TO UTILITIES UNCOVERED DURING EXCAVATION SHOWN ON DRAWING 8.
3. UTILITIES WITHIN THE EXCAVATION SHALL BE REMOVED AND CHARACTERIZED FOR OFF-SITE DISPOSAL DURING EXCAVATION AND REPLACED IN-KIND AS THE EXCAVATION IS BACKFILLED. CONTRACTOR IS RESPONSIBLE TO CONFIRM THAT WATER AND ELECTRIC SERVICES ARE SHUT OFF PRIOR TO REMOVAL.
4. CUT AND TEMPORARILY CAP UTILITIES IN A MANNER THAT ALLOWS FOR RE-CONNECTION OF IN-KIND REPLACEMENT UTILITIES DURING BACKFILLING.
5. FENCING THAT INTERFERES WITH THE WORK SHALL BE REMOVED AND MATERIALS DISPOSED OFF-SITE FOR RECYCLING.
6. CONCRETE AND ASPHALT PAVING THAT INTERFERES WITH THE WORK SHALL BE SAW CUT AND REMOVED AND DISPOSED OFF-SITE AT A PERMITTED FACILITY.
7. TREES AND WOODY VEGETATION SHALL BE CUT FLUSH WITH THE GROUND SURFACE AND DISPOSED OF OFF-SITE AT A PERMITTED LAND CLEARING MANAGEMENT FACILITY. ROOT BALLS SHALL BE SEGREGATED AND CHARACTERIZED FOR OFF-SITE DISPOSAL.
8. CONTRACTOR SHALL INSTALL TEMPORARY 6-FOOT TALL CHAIN LINK FENCING PARALLEL TO THE LIMITS OF CONSTRUCTION DISTURBANCE. FENCING SHALL INCLUDE VISUAL SCREENING.
9. CONTRACTOR SHALL ABANDON WELLS IN ACCORDANCE WITH NYSDEC POLICY CP-43 PRIOR TO INITIATING EXCAVATION.
10. 2 ALL VEHICLES LEAVING THE EXCAVATION AREA SHALL ONLY USE THE ESTABLISHED TEMPORARY ACCESS ROAD TO ENTER THE EQUIPMENT WASH PAD. WASH-DOWN OF ALL VEHICLE TIRES/UNDERCARRIAGE SHALL BE PERFORMED PRIOR TO VEHICLES LEAVING THE SITE. CONTRACTOR SHALL PROVIDE A SUBMITTAL DESCRIBING TEMPORARY STORAGE AND MANAGEMENT OF WASH WATER.
11. STORMWATER SHALL BE COLLECTED AT NEAREST UPGRADIENT STRUCTURE AND PUMPED TO BYPASS LIMITS OF EXCAVATION.
12. SEE DRAWING 2 FOR GENERAL NOTES.

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0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: DEMOLITION PLAN - SOUTH

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
7/11/2017
DATE

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

DESIGN BY:	WMS	DATE:	MAY 2017
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REVIEWED BY:	PLB	DRAWING NO.:	6 OF 14
APPROVED BY:	AK		

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BASEBALL DIAMOND

RUNNING TRACK

CONTRACTOR PARKING AND EQUIPMENT LAYDOWN AREA

STONE TRACKING PAD INSTALLED BY OTHERS

CURRENT LOCATION OF SILT FENCE - WILL BE MOVED WHEN READY TO EXCAVATE LAST SECTION

SILT FENCE TO BE MOVED AND AREA TO BE EXCAVATED LAST

EXCAVATION LIMITS

STABILIZED CONSTRUCTION ACCESS (1/13)

EQUIPMENT WASH PAD (1/9B)

TENNIS COURTS

SAND VOLLEYBALL COURTS

ASPHALT DRIVE

BUS STOP SHELTER

CONC. CURB

LEGEND

- MANHOLE
- CATCH BASIN
- CULVERT PIPE
- CHAIN LINK FENCE
- WOODEN FENCE
- PROPERTY LINE
- EXISTING CONTOUR LINE
- EDGE OF WATER
- EDGE OF WOODS OR BRUSH
- SANITARY SEWER
- STORM SEWER
- GAS PIPELINE
- WATER PIPELINE
- NON RCRA / TSCA SOILS TO BE RE-USED AS BACKFIL (TOTAL PCB < 10 Mg/Kg) (1 3)
- LIMIT OF CONSTRUCTION DISTURBANCE (1/11) (2 3)

NOTES: (1 4)

1. EXCAVATE UPPER 2 FEET OF SOILS.
2. SEE DETAIL 7, DRAWING 9 FOR A TYPICAL CROSS-SECTION OF THE EXCAVATION BACKFILL.
3. SEE SECTION 02110 FOR REQUIREMENTS REGARDING EXCAVATION.
4. DO NOT ACCESS THE NORTH EXCAVATION AREA VIA THE FOOTBALL FIELD.
5. EXCAVATED SOILS SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING PER THE APPROVED IRM WORK PLAN.
6. PLACE DEMARCATION LAYER NETTING OVER BOTTOM OF EXCAVATION PRIOR TO BACKFILLING. SEE DETAIL 7 ON DRAWING 9.
7. 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.
8. SEE DRAWING 2 FOR GENERAL NOTES.
9. (5) EXCAVATION AND LOAD-OUT OF ALL MATERIALS EXCEPT FOR MATERIAL UNDER ASPHALT DRIVE AND EQUIPMENT WASH PAD WILL OCCUR USING CONSTRUCTION ENTRANCE AND EQUIPMENT WASH PAD AS SHOWN. REMAINING SOIL UNDER ASPHALT DRIVE SHALL BE REMOVED LAST. TRUCKS WILL BACK IN ON ASPHALT DRIVE BUT NOT ENTER THE EXCAVATION AREA. TRUCKS LOADED WITH BARRIERS TO PREVENT CONTACT WITH IMPACTED MATERIAL AS DESCRIBED IN SECTION 02110 OF THE SPECIFICATIONS. MATERIAL WILL BE LOADED WORKING SOUTH TO NORTH PROGRESSING OUT THE DRIVEWAY. EQUIPMENT WASH PAD SHALL REMAIN IN PLACE UNTIL THE VERY END IN CASE IT IS NEEDED AND THEN LOADED OUT IN THE FINAL LOADS.

0 20' 40'
SCALE IN FEET

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1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: EXCAVATION PLAN - NORTH

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
7/11/2017
DATE

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

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-407
REVIEWED BY:	PLB	DRAWING NO.:	7 OF 14
APPROVED BY:	AK		

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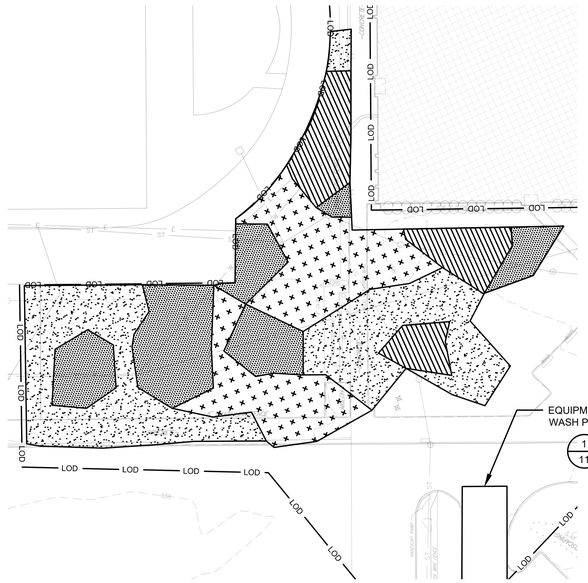
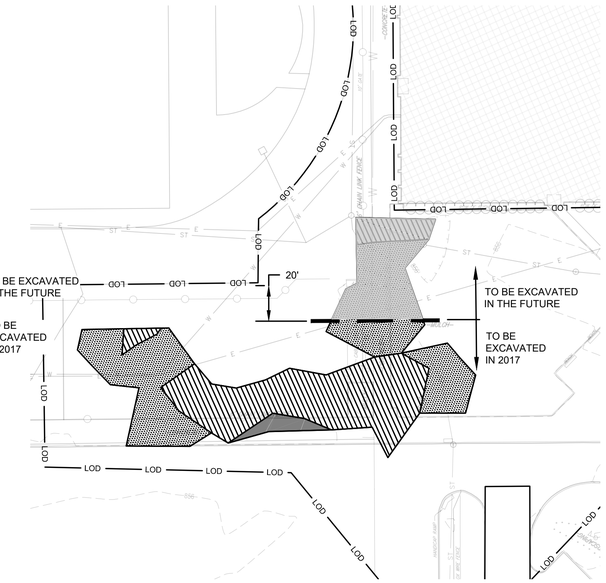


0-2 FT EXCAVATION

2-4 FT EXCAVATION

4-6 FT EXCAVATION



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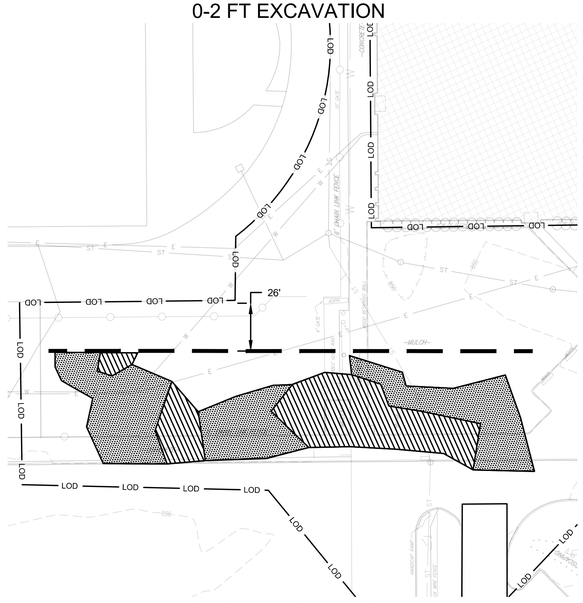

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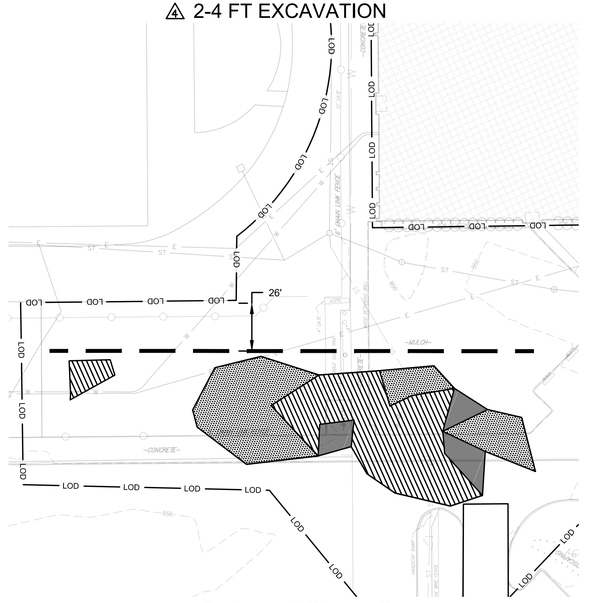
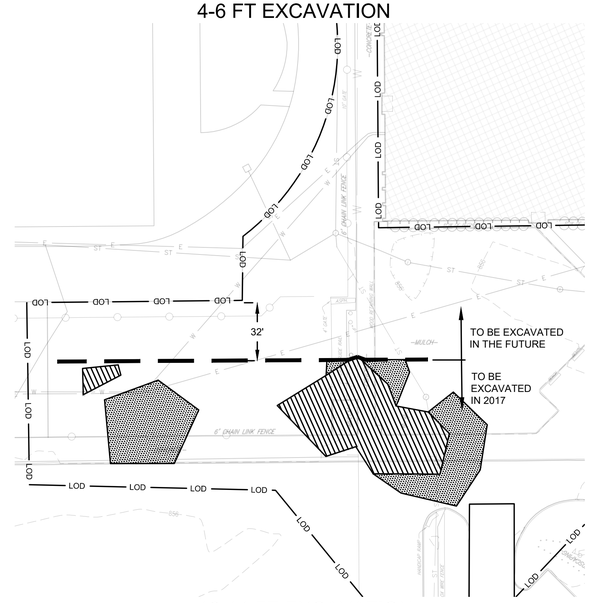
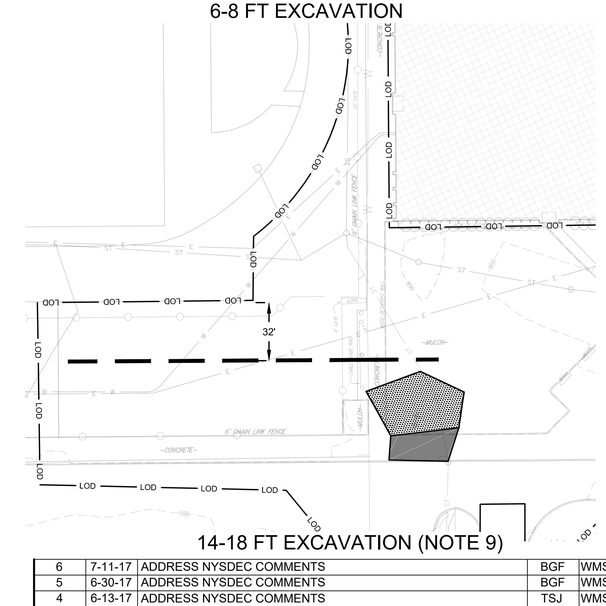


10-12 FT EXCAVATION



12-14 FT EXCAVATION



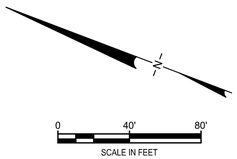
14-18 FT EXCAVATION (NOTE 9)

LEGEND

	MANHOLE	SAN	SANITARY SEWER
	CATCH BASIN	ST	STORM SEWER
12"CMP	CULVERT PIPE	G	GAS PIPELINE
	CHAIN LINK FENCE	W	WATER PIPELINE
	WOODEN FENCE		NON RCRA / TSCA SOILS TO BE RE-USED AS BACKFILL (PCB < 10 Mg/Kg)
	PROPERTY LINE		NON RCRA / TSCA SOILS IN UPPER 2 FEET TO BE RE-USED AS BACKFILL (PCB < 10 Mg/Kg) OVERLAYING RCRA / TSCA SOILS (PCB > 50 Mg/Kg) 5
90	EXISTING CONTOUR LINE		NON RCRA / TSCA SOILS FOR OFF-SITE DISPOSAL (PCB > 10 Mg/Kg, < 50 Mg/Kg
	EDGE OF WATER		NON RCRA / TSCA SOILS IN UPPER 2 FEET TO BE RE-USED AS BACKFILL (PCB > 1 Mg/Kg, < 10 Mg/Kg)
	EDGE OF WOODS OR BRUSH		RCRA / TSCA SOILS (PCB > 50 Mg/Kg)
LOD	LIMIT OF CONSTRUCTION DISTURBANCE 1/11 2		

NOTES:

1. SEE SECTION 02110 FOR REQUIREMENTS REGARDING EXCAVATION
2. (1) 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. EXCAVATED SOILS BELOW 50 Mg/Kg PCBs SHALL BE SEGREGATED AND STOCKPILED AT THE STOCKPILE AND LAYDOWN AREA FOR SAMPLING PURSUANT TO THE CATEGORIES SHOWN. SOILS FOR REUSE THAT OVERLAY TSCA/RCRA SOILS AS SHOWN SHALL BE SEGREGATED SEPARATELY.
4. SOILS ABOVE 50 Mg/Kg PCBs SHALL BE LIVE LOADED INTO TRUCKS FOR OFF-SITE DISPOSAL.
5. (2) ALL VEHICLES LEAVING THE EXCAVATION AREA SHALL ONLY USE THE ESTABLISHED TEMPORARY ACCESS ROAD TO ENTER THE EQUIPMENT WASH PAD. WASH-DOWN OF ALL VEHICLE TIRES/UNDERCARRIAGE SHALL BE PERFORMED PRIOR TO VEHICLES LEAVING THE SITE.
6. PLACE DEMARCATION LAYER NETTING OVER BOTTOM OF EXCAVATION PRIOR TO BACKFILLING. SEE DETAIL 7 ON DRAWING 9.
7. 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.
8. (4) SEE DRAWING 2 FOR GENERAL NOTES.
9. EXCAVATION WILL PROCEED TO EITHER 18FT DEPTH OR 6" BELOW GROUNDWATER, WHICHEVER OCCURS FIRST.



REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
5	6-30-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
4	6-13-17	ADDRESS NYSDEC COMMENTS	TSJ	WMS/AK
3	5-31-17	REVISE EXCAVATION AREAS AND SOIL STOCKPILE LOCATION	TSJ	WMS/AK
2	5-12-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: EXCAVATION PLAN - SOUTH 3

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE 7/11/2017 DATE

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

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-408
REVIEWED BY:	PLB	DRAWING NO.:	8 OF 14
APPROVED BY:	AK		

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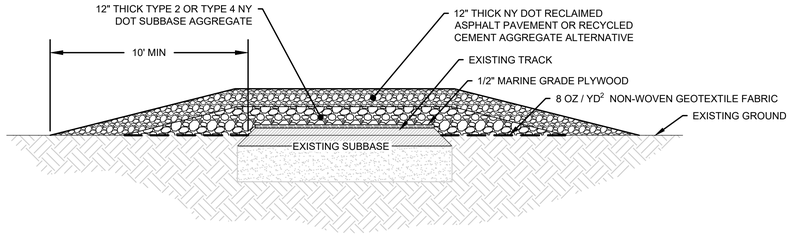
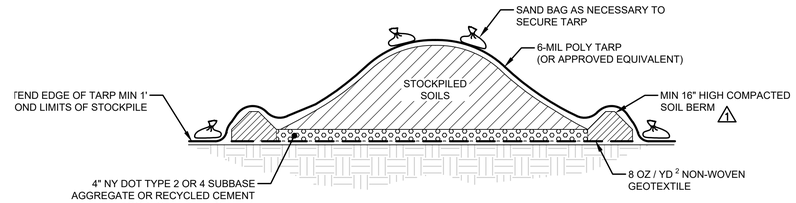


NOTES:

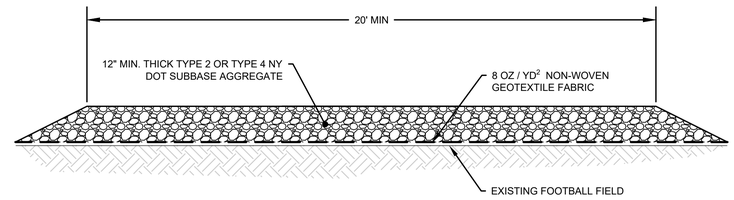
1. THOROUGHLY WASH AND CLEAN TRACK SURFACE AFTER REMOVING RUNNING TRACK PROTECTION.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING PROTECTION OF THE TRACK SURFACE.

1/6 DETAIL
RUNNING TRACK PROTECTION
SCALE: NTS
(SEE NOTE 1)

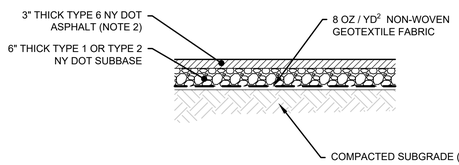


NOTE:
STOCKPILED SOILS SHALL BE TARPED AT THE END OF EVERY WORKING DAY.

2/13 DETAIL
SOIL STOCKPILE
SCALE: NTS



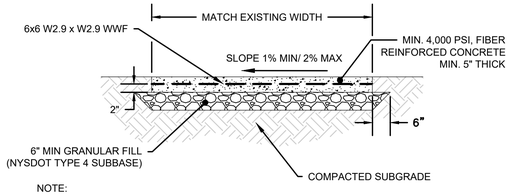
3/6 DETAIL
TEMPORARY ACCESS ROAD
SCALE: NTS



NOTE:

1. ADJUST SUBGRADE ELEVATION TO SMOOTHLY TRANSITION FROM EXISTING ASPHALT TO REPAIR.
2. SUBMIT ASPHALT MIX TO ENGINEER FOR APPROVAL.

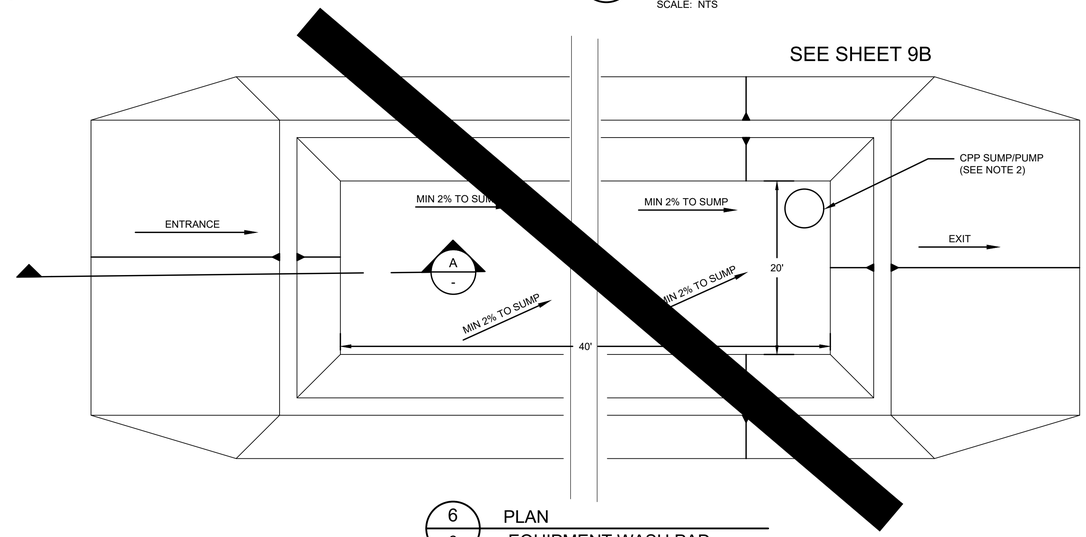
4/6 DETAIL
ASPHALT DRIVE REPLACEMENT
SCALE: NTS



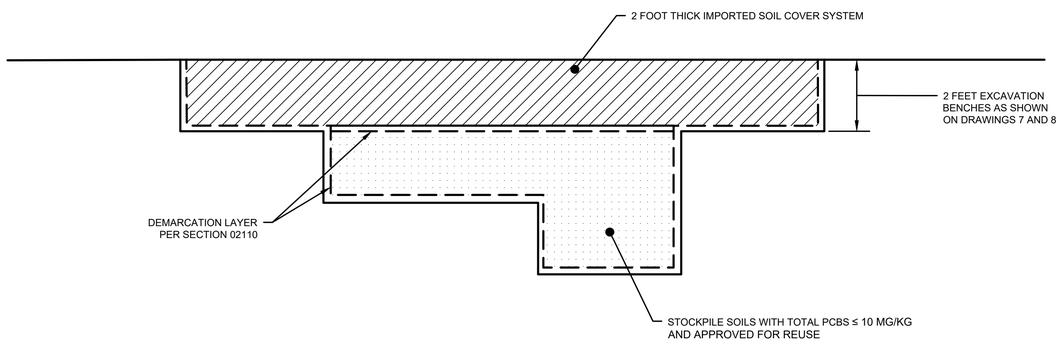
NOTE:

1. ADJUST SUBGRADE ELEVATION TO SMOOTHLY TRANSITION FROM EXISTING SIDEWALK TO REPAIR.
2. SIDEWALK TO BE SCORED IN A 5' x 5' SQUARE PATTERN OR AS SHOWN ON PLAN.

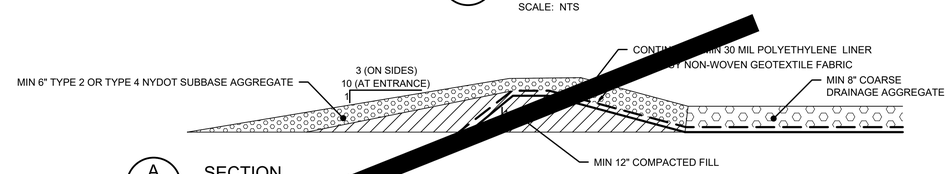
5/6 DETAIL
SIDEWALK REPLACEMENT
SCALE: NTS



6/6 PLAN
EQUIPMENT WASH PAD
SCALE: NTS



1 7/7 CROSS - SECTION
TYPICAL EXCAVATION BACKFILL
NOTE: ALL BACKFILL SHALL BE COMPACTED PER SECTION 02055



A/- SECTION
EQUIPMENT WASH PAD
SCALE: NTS

NOTES:

1. SHOULD CONTRACTOR REQUIRE EQUIPMENT OR TRUCK ACCESS OVER THE RUNNING TRACK, RUNNING TRACK PROTECTION SHALL BE INSTALLED AS SHOWN.
2. 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.

REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
5	6-30-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
4	6-13-17	ADDRESS NYSDEC COMMENTS	TSJ	WMS/AK
3	5-31-17	REVISE EXCAVATION AREAS AND SOIL STOCKPILE LOCATION	TSJ	WMS/AK
2	5-12-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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UNISYS

TITLE: DETAILS I

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
7/11/2017
DATE

STATE OF NEW YORK · ANDREA KRASNOPOLSKY · 089954-1 · LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-409
REVIEWED BY:	PLB	DRAWING NO.:	9 OF 14
APPROVED BY:	AK		

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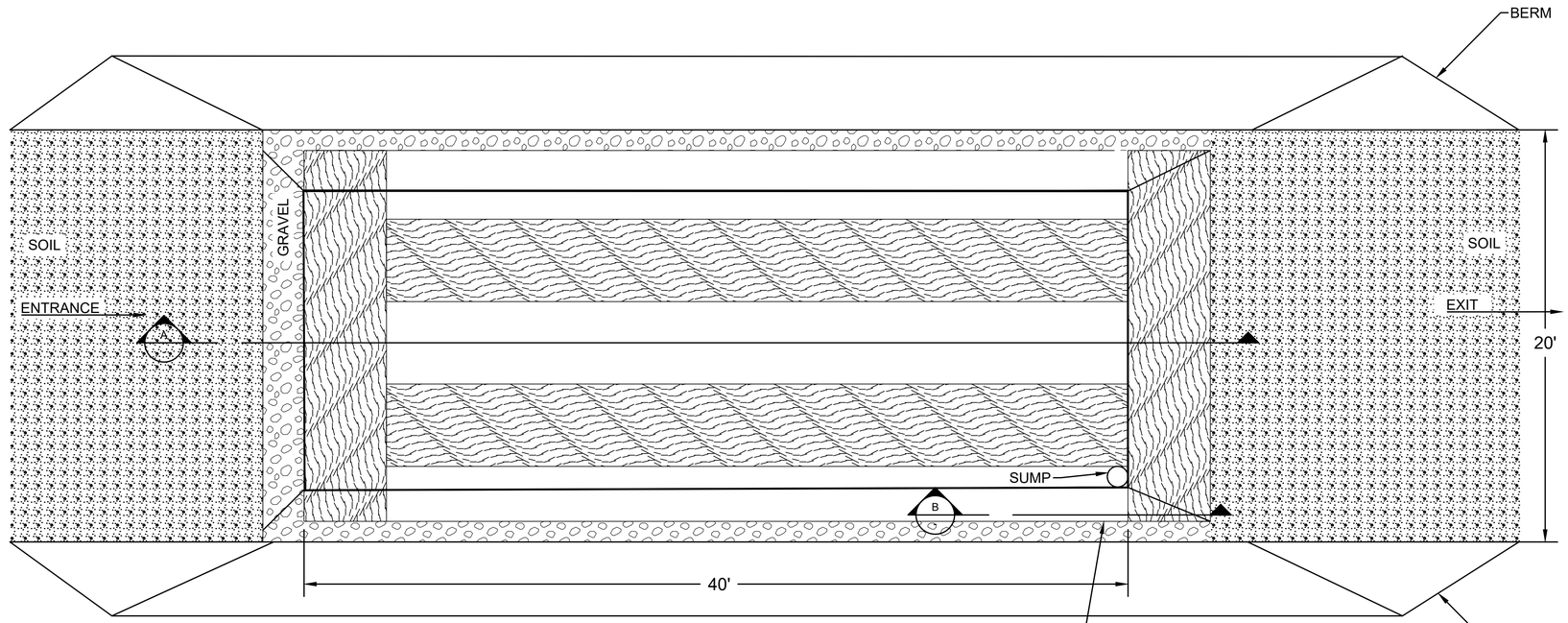
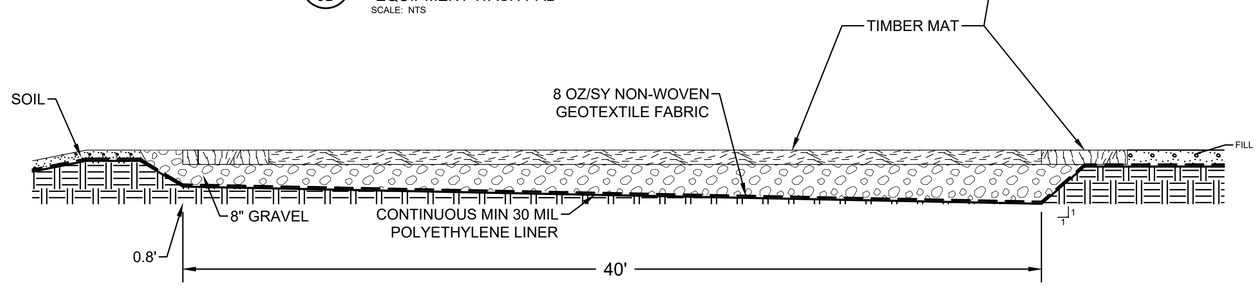
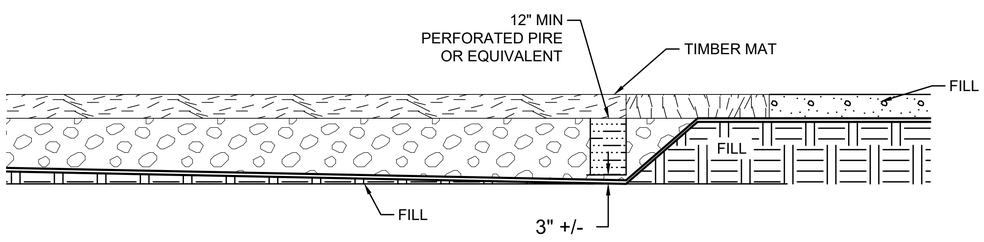


1 / 9B PLAN
EQUIPMENT WASH PAD
SCALE: NTS



A / - SECTION
EQUIPMENT WASH PAD
SCALE: NTS



B / - SECTION
EQUIPMENT WASH PAD SUMP
SCALE: NTS

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.

REV	DATE	DESCRIPTION	DRN	APP
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1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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UNISYS

TITLE: DETAILS II

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
2/1/2017
DATE

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

DESIGN BY:	WMS	DATE:	STET 2017
DRAWN BY:	BGF	PROJECT NO.:	MN0832B-STET
CHECKED BY:	AK	FILE:	0832-409B
REVIEWED BY:	TBR	DRAWING NO.:	9B OF 14
APPROVED BY:	AK		

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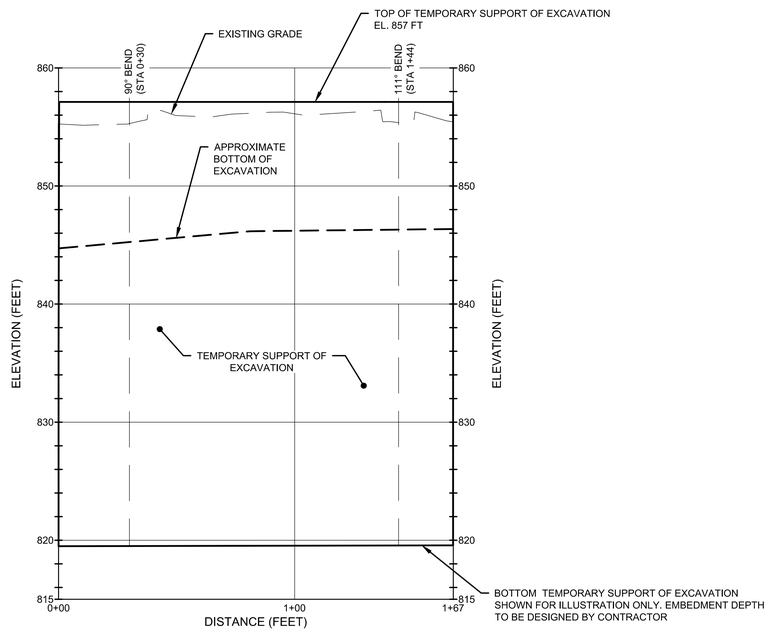

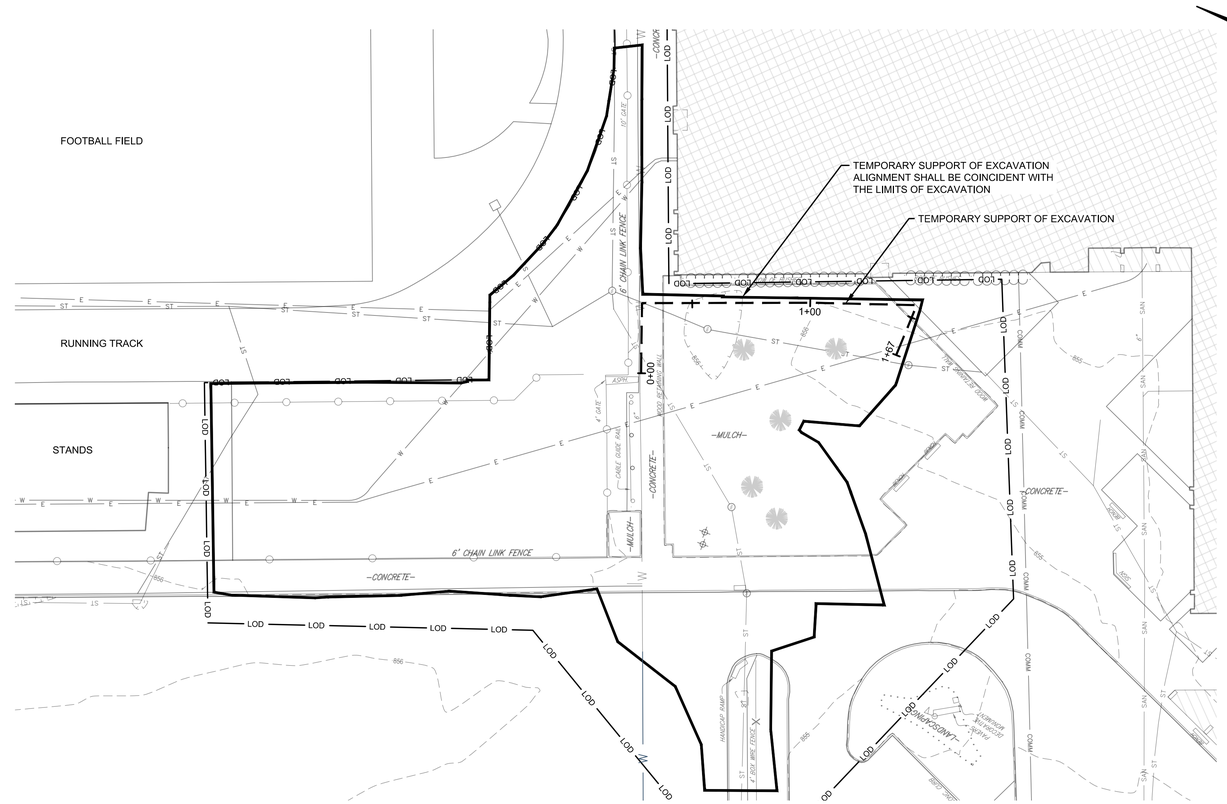

SHORING TO BE PERFORMED IN FUTURE EXCAVATION AFTER 2017

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 LINER
- WATER LINE
- EXCAVATION LIMITS
- TREE
- MONITORING WELL (MW15D)
- OBJECT TO BE DEMOLISHED
- LIMIT OF CONSTRUCTION DISTURBANCE

NOTES:

1. TEMPORARY SUPPORT OF EXCAVATION TO BE DESIGNED BY THE CONTRACTOR SEE SPECIFICATION SECTION 02260.
2. SEE DRAWING 2 FOR GENERAL NOTES.

REV	DATE	DESCRIPTION	DRN	APP
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0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: SHORING PLAN

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 6'

SIGNATURE
7/11/2017
DATE

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

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-410
REVIEWED BY:	PLB	DRAWING NO.:	10 OF 14
APPROVED BY:	AK		

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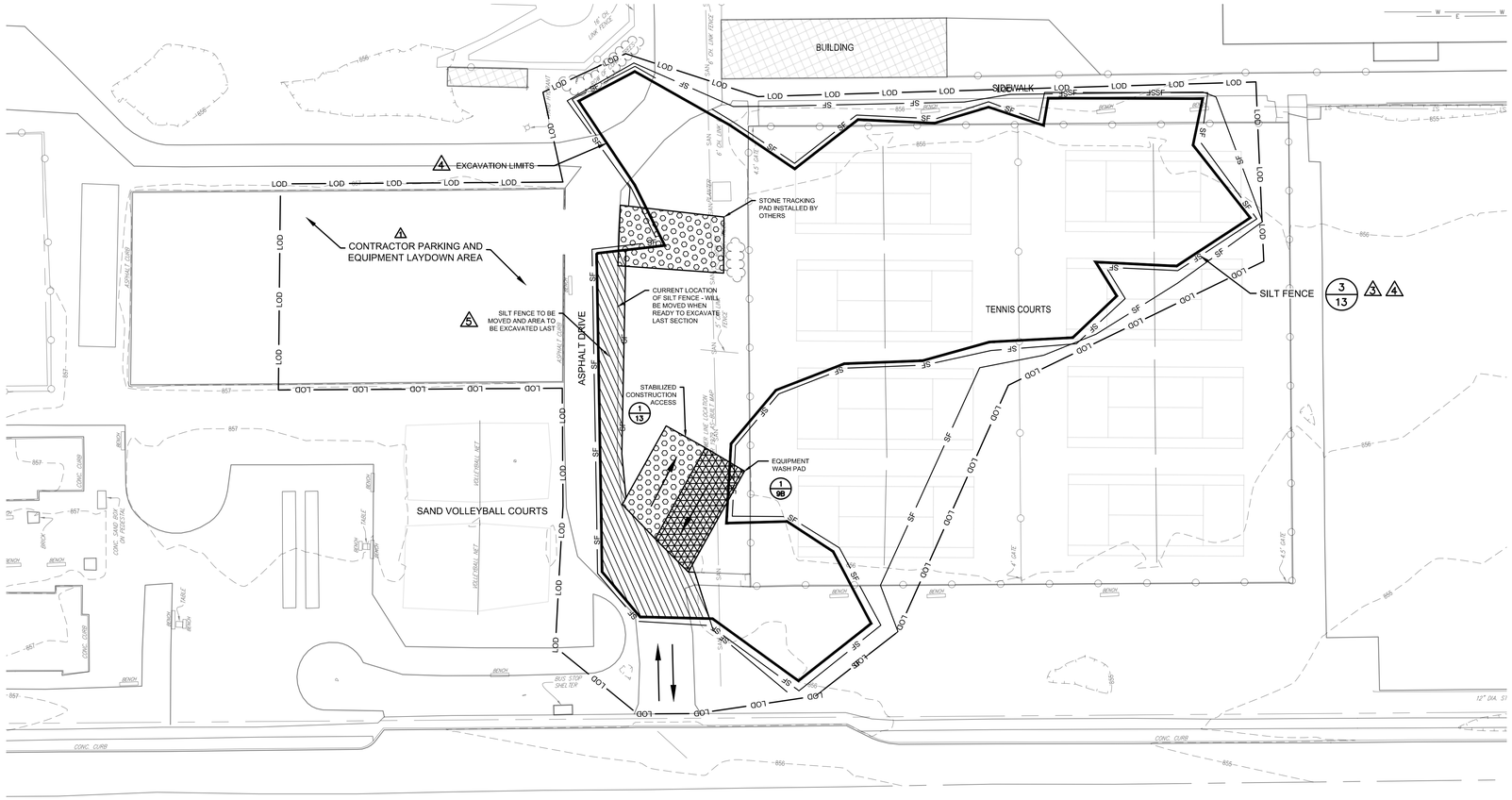
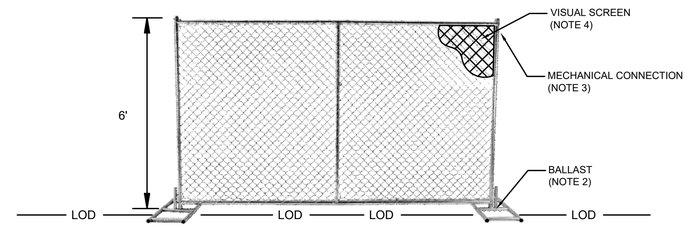


LEGEND

- 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
- EXCAVATION LIMITS 2
- LIMIT OF CONSTRUCTION DISTURBANCE 1/11 2 3



1/11 DETAIL
LIMIT OF CONSTRUCTION DISTURBANCE

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.

NOTES:

1. SILT FENCE SHALL BE INSTALLED AROUND THE EXCAVATION EXCEPT AT THE TRUCK AND EQUIPMENT ACCESS POINT.
2. CONTRACTOR SHALL INSTALL EARTH DIKES PER DETAIL 2 ON DRAWING 13 AS REQUIRED TO PREVENT RUN-OFF FROM ENTERING THE EXCAVATION.
3. SEE DRAWING 2 FOR GENERAL NOTES.
4. 1 GENERAL SPECIFICATIONS OF THE SWPPP DO NOT SUPERCEDE DETAILED REQUIREMENTS OF THE APPROVED IRM WORK PLAN

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

GENERAL REQUIREMENTS

1. POTENTIAL POLLUTANTS: THIS CONSTRUCTION PROJECT INVOLVES THE EXCAVATION, STOCKPILING, AND OFFSITE DISPOSAL OF SOILS CONTAINING HAZARDOUS CHEMICAL SUBSTANCES, INCLUDING PCBs. CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS, DRAWINGS, AND ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
2. CONTRACTOR SHALL ENSURE THAT ALL PROVISIONS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER PROTECTION ARE IMPLEMENTED AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY THE TECHNICAL SPECIFICATIONS.
3. CONTRACTOR SHALL FULLY ESTABLISH ALL PERIMETER EROSION AND SEDIMENT CONTROLS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
4. CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROLS UNTIL ALL DISTURBED AREAS HAVE ACHIEVED FINAL STABILIZATION AND A NOTICE OF TERMINATION (NOT) SUBMITTED TO THE NYSDEC.
5. CONTRACTOR SHALL MAINTAIN COPIES OF THE FOLLOWING DOCUMENTS ON-SITE DURING CONSTRUCTION:
   - A. GENERAL PERMIT GP-0-15-002;
   - B. NOTICE OF INTENT;
   - C. NOI ACKNOWLEDGEMENT LETTER;
   - D. STORMWATER POLLUTION PREVENTION PLAN (SWPPP);
   - E. MS4 (I.E. CITY OF ELMIRA) SWPPP ACCEPTANCE FORM;
   - F. INSPECTION REPORTS; AND
   - G. ANY OTHER DOCUMENTATION NECESSARY TO ELIGIBILITY AND COMPLIANCE WITH PERMIT GP-0-15-002.
6. CONTRACTOR SHALL NOT DISTURB GREATER THAN 5 ACRES OF SOIL AT ANY ONE TIME WITHOUT PRIOR AUTHORIZATION FROM THE CITY OF ELMIRA.
7. CONTRACTOR SHALL APPLY SOD OR SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES TO ALL DISTURBED AREAS AND STOCKPILES WITHIN SEVEN (7) CALENDAR DAYS AFTER STRIPPING AND GRADING ACTIVITIES HAVE CEASED IN THE AREA. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.
8. TEMPORARY SILT FENCE SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED FOR MORE THAN ONE DAY.
9. CONSTRUCTION DETAILS, MATERIAL REQUIREMENTS, DESIGN CRITERIA, AND MAINTENANCE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL PRACTICES ARE PROVIDED ON THE DRAWING DETAILS.
10. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (NOVEMBER 2016). PRACTICES SELECTED FOR IMPLEMENTATION A INCLUDING:
    - A. STABILIZED CONSTRUCTION ENTRANCE
    - B. EARTH DIKE
    - C. SILT FENCE
    - D. COMPOST FILTER SOCK
    - E. DEWATERING SUMP
    - F. TEMPORARY CONSTRUCTION AREA SEEDING
    - G. RECREATIONAL AREA SEEDING
11. OTHER PRACTICES NOT SHOWN ON THE DRAWINGS OR LISTED ABOVE SHALL BE IMPLEMENTED AS NECESSARY TO PROTECT WATER QUALITY AND MINIMIZE SEDIMENT RUNOFF.
12. CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.
13. CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES AND NON-SEDIMENT POLLUTION CONTROL MEASURES UNTIL THROUGHOUT CONSTRUCTION AND UNTIL A NOTICE OF TERMINATION FOR PERMIT GP-0-15-002 IS REVIVED.
14. CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED IN CONSTRUCTION ACTIVITIES THAT MAY AFFECT STORMWATER QUALITY SHALL SIGN THE CONTRACTOR CERTIFICATION STATEMENT.

3 15. SITE INFORMATION:
   - A. AREA DISTURBED 4.5 ACRES

SOIL STABILIZATION AND DUST CONTROL

1. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (NOVEMBER 2016) FOR TEMPORARY CONSTRUCTION AREA SEEDING, RECREATIONAL AREA SEEDING, TOPSOILING, AND MULCHING.
2. TEMPORARY CONSTRUCTION AREA SEEDING.
   - A. DURING SPRING, SUMMER OR EARLY FALL SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS PER ACRE (APPROXIMATELY 0.7 TO 1 LBS./1000 SQ. FT.)
   - B. DURING LATE FALL OR EARLY WINTER SEED WITH CERTIFIED 'AROOSTOOK' WINTER RYE (CERYLE RYE) AT 100 LBS. PER ACRE (2.5 LBS./1000 SQ. FT.)
   - C. ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION OF SEED TO THE AREA AND RESULT IN RELATIVELY GOOD SOIL TO SEED CONTACT.
   - D. MULCH THE AREA WITH HAY OR STRAW AT 2 TONS/ACRE (APPROX. 90 LBS./1000 SQ. FT. OR 2 BALES). QUALITY OF HAY OR STRAW MULCH ALLOWABLE WILL BE DETERMINED BASED ON LONG TERM USE AND VISUAL CONCERNS. MULCH ANCHORING WILL BE REQUIRED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE OF CONCERN. WOOD FIBER HYDROMULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL MAY BE USED IF APPLIED ACCORDING TO MANUFACTURERS' SPECIFICATION.
3. PERMANENT RECREATION AREA SEEDING.
   - A. TIME OF PLANTING: FALL PLANTING IS PREFERRED. SEED AFTER AUGUST 15. IN THE SPRING, PLANT UNTIL MAY 15. IF SEEDING IS DONE BETWEEN MAY 15 AND AUGUST 15, IRRIGATION MAY BE NECESSARY TO ENSURE A SUCCESSFUL SEEDING.
   - B. SITE PREPARATION:
   - I. INSTALL NEEDED WATER AND EROSION CONTROL MEASURES AND BRING AREA TO BE SEEDED TO DESIRED GRADES. A MINIMUM OF 4 IN. TOPSOIL IS REQUIRED.
   - II. PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4-6 INCHES AND DECOMPACTING REQUIRED AREAS PER SOIL RESTORATION STANDARD.
   - III. SEE STANDARD AND SPECIFICATION OF TOPSOILING.
   - IV. LIME TO A PH OF 6.5. SEE LIME APPLICATION STANDARD.
   - V. FERTILIZE AS PER SOIL TEST OR, IF SOIL MUST BE FERTILIZED BEFORE RESULTS OF A SOIL TEST CAN BE OBTAINED TO DETERMINE FERTILIZER NEEDS, APPLY COMMERCIAL FERTILIZER AT 850 POUNDS OF 5-5-10 OR EQUIVALENT PER ACRE (20 LBS/1,000 SQ. FT.). SEE FERTILIZER APPLICATION STANDARD.
   - VI. INCORPORATE LIME AND FERTILIZER IN TOP 2-4 INCHES OF TOPSOIL.
   - VII. SMOOTH. REMOVE STICKS, FOREIGN MATTER, AND STONES OVER 1 INCH IN DIAMETER, FROM THE SURFACE. FIRM THE SEEDBED.
   - C. PLANTING: USE A CULTIPACKER TYPE SEEDER IF POSSIBLE. SEED TO A DEPTH OF 1/8 TO 1/4 INCH. IF SEED IS TO BE BROADCAST, CULTIPACK OR ROLL AFTER SEEDING. IF HYROSEEDED, LIME AND FERTILIZER MAY BE APPLIED THROUGH THE SEEDER, AND ROLLING IS NOT PRACTICAL.
   - D. MULCHING: MULCH ALL SEEDINGS IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS FOR MULCHING. SMALL GRAIN STRAW IS THE BEST MATERIAL.
   - E. SEED MIXTURE:

65% CREEPING RED FESCUE:	2.0 - 2.6 LBS./1000 SQ.FT. (PLS)
20% PERENNIAL RYEGRASS:	0.6 - 0.8 LBS./1000 SQ.FT. (PLS)
15% FINE FESCUE:	0.4 - 0.6 LBS./1000 SQ.FT. (PLS)
TOTAL SEED WEIGHT	3.0 - 4.0 LBS./1000 SQ. FT.

FOR VARIETIES OF SEED SUITABLE FOR SPECIFIC LOCATIONS CONTACT CORNELL COOPERATIVE EXTENSION TURF SPECIALIST.

4. SOILS MAP: ALL AREAS OF WORK ARE CLASSIFIED AS, "MADE LAND", AS PROVIDED BY USDA-NRCS, SOIL SURVEY AREA: CHEMUNG COUNTY, NEW YORK SURVEY AREA DATA: VERSION 13, SEP 23, 2016.
5. DUST CONTROL: CONTRACTOR SHALL PERFORM DUST CONTROL AS REQUIRED BY THE CONTRACT SPECIFICATIONS AND DUST CONTROL MONITORING PLAN.

NON-SEDIMENT POLLUTION PREVENTION

THIS SITE POLLUTION PREVENTION PLAN DESCRIBES GENERAL ACTIVITIES TO PREVENT GENERATION OF POLLUTANTS DUE TO IMPROPER HANDLING STORAGE AND SPILLS, AND PREVENT THE MOVEMENT OF TOXIC SUBSTANCES FORM THE SITE INTO SURFACE WATERS. THE FOLLOWING MINIMUM PRACTICES FOR STORMWATER POLLUTION PREVENTION WILL BE PERFORMED:

1. ALL STATE AND FEDERAL REGULATIONS SHALL BE FOLLOWED FOR THE STORAGE, HANDLING, APPLICATION, USAGE, AND DISPOSAL OF PESTICIDES, FERTILIZERS, AND PETROLEUM PRODUCTS.
2. VEHICLE AND CONSTRUCTION EQUIPMENT STAGING AND MAINTENANCE AREAS WILL BE LOCATED AWAY FROM ALL DRAINAGE WAYS WITH THEIR PARKING AREAS GRADED SO THE RUNOFF FROM THESE AREAS IS COLLECTED, CONTAINED AND TREATED PRIOR TO DISCHARGE FROM THE SITE.
3. CONTRACTOR SHALL PROVIDE SANITARY FACILITIES FOR ON-SITE PERSONNEL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
4. CONTRACTOR SHALL STORE, COVER, AND ISOLATE CONSTRUCTION MATERIALS INCLUDING ALL EXCAVATION SPOILS, AND CHEMICALS, TO PREVENT RUNOFF OF POLLUTANTS AND CONTAMINATION OF GROUNDWATER AND SURFACE WATERS.
5. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SPILL PREVENTION AND CONTROL PLAN. THE PLAN SHOULD INCLUDE NYSDEC'S SPILL REPORTING AND INITIAL NOTIFICATION REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE ADEQUATE DISPOSAL FOR SOLID WASTE INCLUDING WOODY DEBRIS, STUMPS, AND OTHER CONSTRUCTION WASTE AND MUNICIPAL WASTE. FILL, WOODY DEBRIS, STUMPS AND CONSTRUCTION WASTE SHALL NOT BE PLACED IN REGULATED WETLANDS, STREAMS OR OTHER SURFACE WATERS.
7. CONTRACTOR SHALL POST INFORMATIONAL MATERIAL REGARDING PROPER HANDLING, SPILL RESPONSE, SPILL KIT LOCATION, AND EMERGENCY ACTIONS TO BE TAKEN, TO ALL CONSTRUCTION PERSONNEL.
8. REFUELING EQUIPMENT SHALL BE LOCATED AT LEAST 100 FEET FROM ALL WETLANDS, STREAMS AND OTHER SURFACE WATERS.

MAINTENANCE AND INSPECTION

1. All TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES AND STORMWATER POLLUTION PREVENTION PLAN PRACTICES SHALL BE INSPECTED DAILY FOR PROPER APPLICATION AND FUNCTION AS DEFINED IN THE SPECIFICATIONS AND/OR NEW YORK STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
2. DAILY INSPECTION REPORTS SHALL BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION.

1 **DISCHARGE**

1. ANY WATER CONTACTING EXCAVATION AREAS PRIOR TO BACKFILLING WITH SOIL COVER SYSTEM (SEE DETAIL 7, SHEET 9) OR WATER COLLECTED WITHIN THE EQUIPMENT WASH PAD SUMP, SHALL BE SEGREGATED, CHARACTERIZED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
2. 2 AT THE COMPLETION OF CONSTRUCTION, ALL TEMPORARY ACCESS ROAD CONSTRUCTION MATERIALS AND EQUIPMENT WASH PAD CONSTRUCTION MATERIALS SHALL BE REMOVED, CHARACTERIZED, AND DISPOSED OF ACCORDANCE WITH NYSDEC-APPROVED IRM WORK PLAN.

0 30' 60'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
5	6-30-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
4	6-13-17	ADDRESS NYSDEC COMMENTS	TSJ	WMS/AK
3	5-31-17	REVISE EXCAVATION AREAS AND SOIL STOCKPILE LOCATION	TSJ	WMS/AK
2	5-12-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: EROSION AND SEDIMENT CONTROL PLAN - NORTH

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE 7/11/2017 DATE

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

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-411
REVIEWED BY:	PLB	DRAWING NO.:	11 OF 14
APPROVED BY:	AK		

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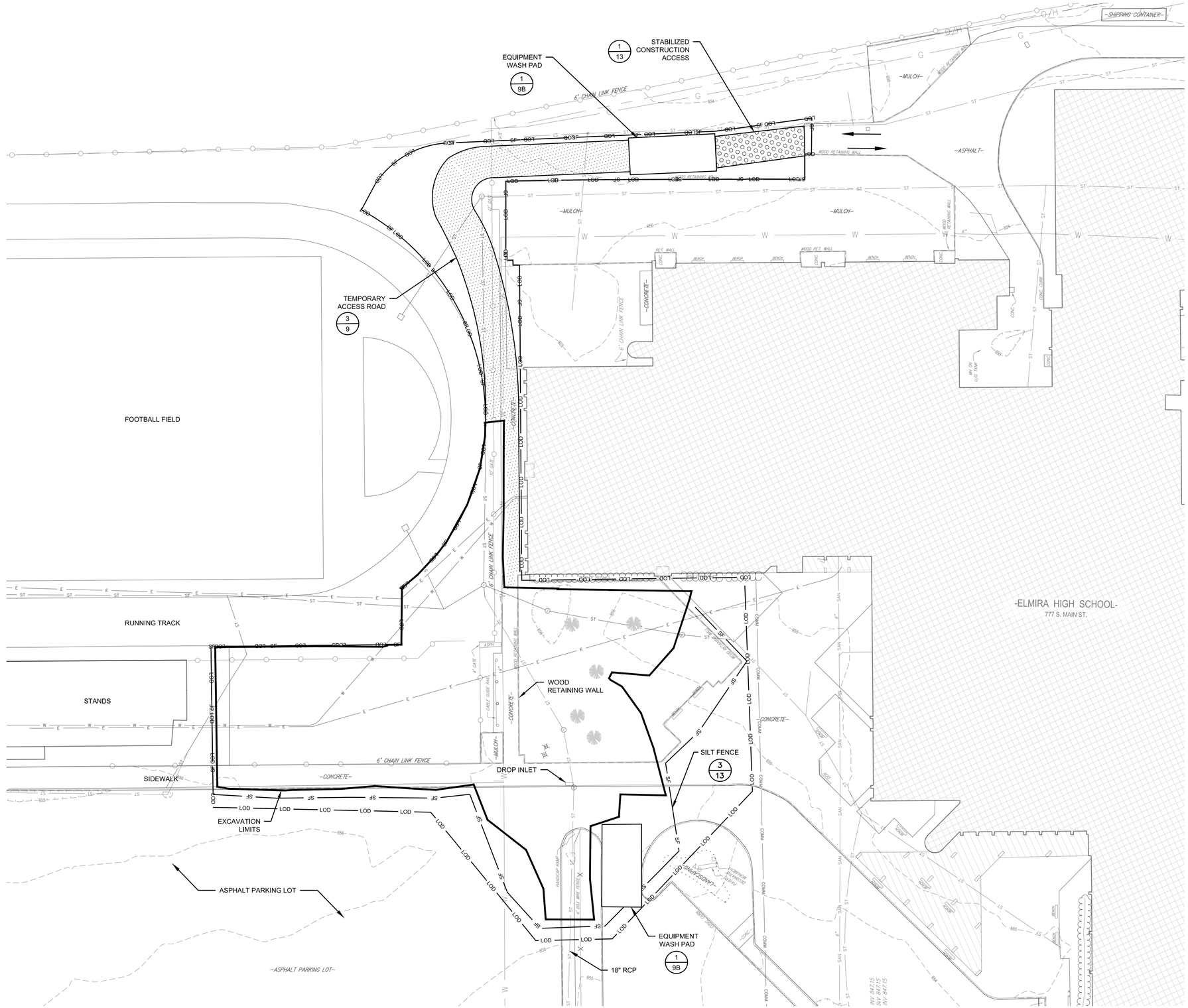

LEGEND

	MANHOLE
	CATCH BASIN
12"CMP	CULVERT 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 LINER
W	WATER LINE
	EXCAVATION LIMITS 3
	TREE
LOD	LIMIT OF CONSTRUCTION DISTURBANCE 1/11 2

NOTES:

1. SILT FENCE SHALL BE INSTALLED COINCIDENT WITH THE LOD WHERE INDICATED.
2. CONTRACTOR SHALL INSTALL EARTH DIKES PER DETAIL 2 ON DRAWING 13 AS REQUIRED TO PREVENT RUN-OFF FROM ENTERING THE EXCAVATION.
3. SEE DRAWING 2 FOR GENERAL NOTES.

0 30' 60'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
5	6-30-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
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1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: EROSION AND SEDIMENT CONTROL PLAN - SOUTH

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
7/11/2017
DATE

STATE OF NEW YORK · ARON A. KRASNOPOLSKY · 089955-1 · LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-412
REVIEWED BY:	PLB	DRAWING NO.:	12 OF 14
APPROVED BY:	AK		

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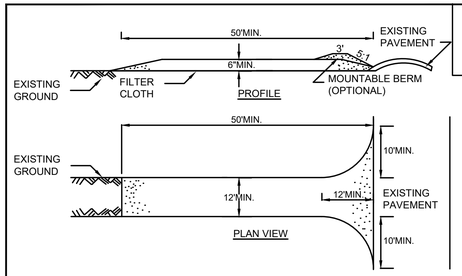


SYMBOL

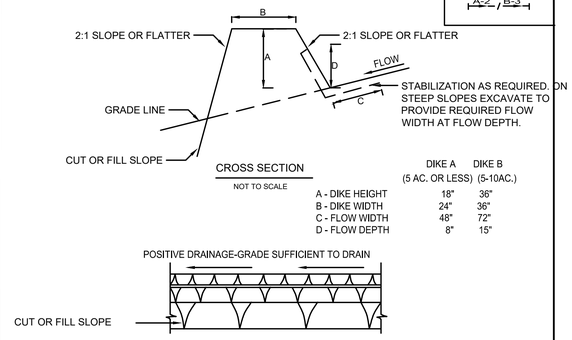
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED CONSTRUCTION ACCESS

1/6 DETAIL
STABILIZED CONSTRUCTION ACCESS



SYMBOL

	DIKE A (5 AC. OR LESS)	DIKE B (5-10AC.)
A - DIKE HEIGHT	18"	36"
B - DIKE WIDTH	24"	36"
C - FLOW WIDTH	48"	72"
D - FLOW DEPTH	8"	15"

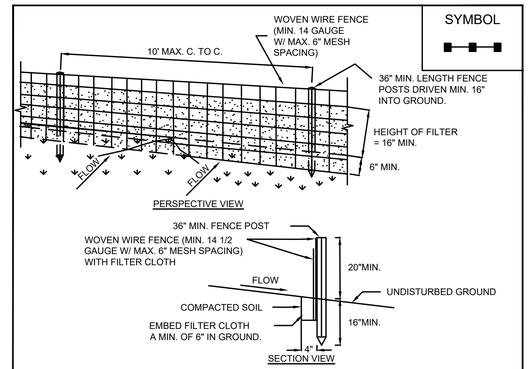
CONSTRUCTION SPECIFICATIONS

1. ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
2. ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
3. TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
4. FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
5. EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
6. FILL STABILIZATION SHALL BE: (A) IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SEED AND STRAW MULCH IF NOT IN SEEDING SEASON, (B) FLOW CHANNEL STABILIZATION PER THE STANDARD CHART BASED ON CHANNEL GRADE.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

EARTH DIKE

2/- DETAIL
EARTH DIKE



SYMBOL

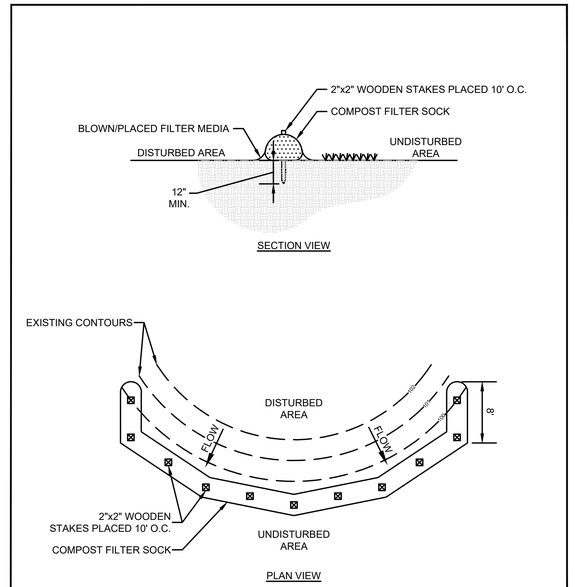
CONSTRUCTION SPECIFICATIONS

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, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 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.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SILT FENCE

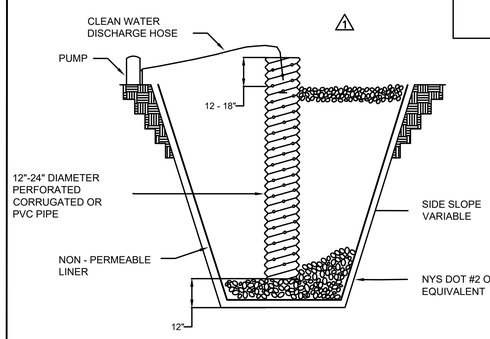
3/13 DETAIL
SILT FENCE



ADAPTED FROM DETAILS PROVIDED BY: FILTREXX

COMPOST FILTER SOCK

4/13 DETAIL
COMPOST FILTER SOCK



SYMBOL

CONSTRUCTION SPECIFICATIONS

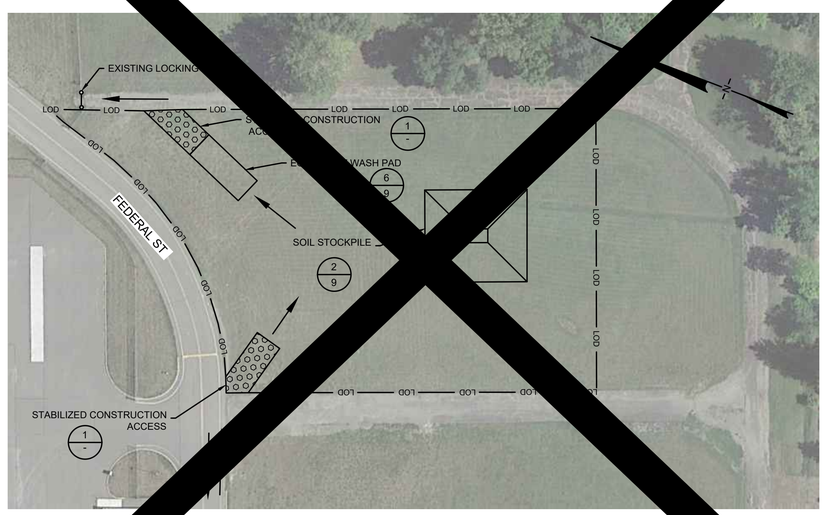
1. PIT DIMENSIONS ARE VARIABLE.
2. THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12-24" DIAMETER CORRUGATED OR PVC PIPE.
3. A BASE OF NYS DOT #2 OR EQUIVALENT AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD BE BACKFILLED WITH NYS DOT #2 OR EQUIVALENT AGGREGATE.
4. THE STANDPIPE SHOULD EXTEND 12-18" ABOVE THE LIP OF THE PIT.
5. DIRECT DISCHARGE IS PROHIBITED. (1)

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SUMP PIT

5/- DETAIL
DEWATERING SUMP PIT

SEE SHEET 14



(3) 6/- PLAN
STOCKPILE AREA
SCALE" NOT TO SCALE

LEGEND

- INGRESS / EGRESS FOR SOIL STOCKPILE AREA
- LOD — LIMIT OF CONSTRUCTION DISTURBANCE (1/11)
- SF — SILT FENCE

NOTES:

1. CONTRACTOR SHALL UTILIZE EARTH DIKE, COMPOST FILTER SOCK, AND DEWATERING SUMP PIT. (6)
2. CONTRACTOR SHALL INSTALL TEMPORARY 6' TALL CHAIN LINK FENCING PARALLEL TO THE LIMITS OF CONSTRUCTION DISTURBANCE. FENCING SHALL INCLUDE VISUAL SCREENING.

REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
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1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: EROSION AND SEDIMENT CONTROL DETAILS

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE 8/11/2017
DATE

STATE OF NEW YORK · ARON L. KRASNOPOLSKY · 089954-1 · LICENSED PROFESSIONAL ENGINEER

DESIGN BY:	WMS	DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	0832-413
REVIEWED BY:	PLB	DRAWING NO.:	13 OF 14
APPROVED BY:	AK		

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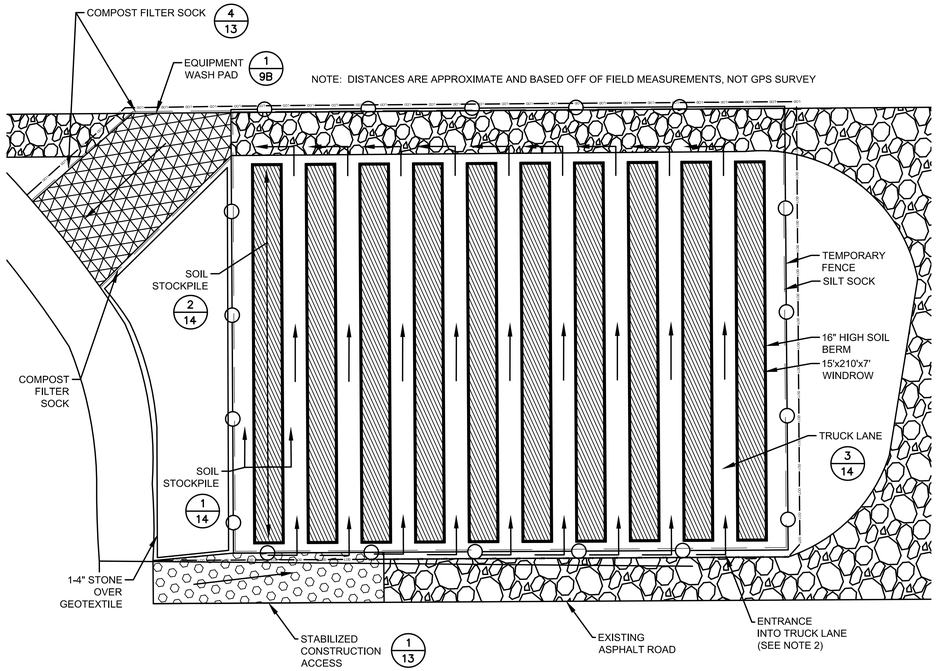


1/14 PLAN
STOCKPILE AREA
NTS

UNLOADING SEQUENCE:

1. TRUCK ENTERS TEMPORARY ENTRANCE INTO MSA.
2. TRUCK PULLS UP TO END OF ACTIVE WINDROW.
3. TRUCK BACKS ONTO ACTIVE WINDROW.
4. TRUCK UNLOADS AT END OF ACTIVE WINDROW.
5. TRUCK PULLS FORWARD INTO TRUCK LANE.
6. TRUCK EXITS ONTO ASPHALT ROAD
7. TRUCK ENTERS EQUIPMENT WASH PAD FOR WET DECON.
8. TRUCK EXITS EQUIPMENT WASH PAD AND RETURNS TO EXCAVATION AREA.

LOADING SEQUENCE:

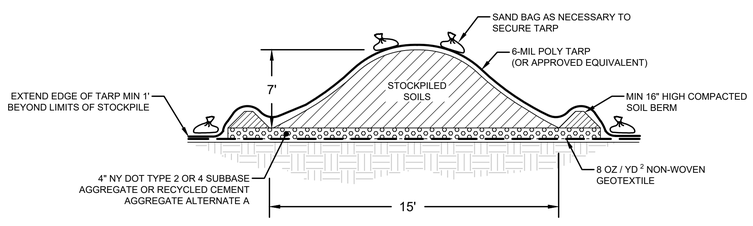
1. TRUCK ENTERS TEMPORARY ENTRANCE INTO MSA.
2. TRUCK PULLS UP TO ACTIVE WINDROW TO BE LOADED, STAYING IN TRUCK LANE.
3. TRUCK IS LOADED BY EXCAVATOR.
4. TRUCK EXITS ONTO ASPHALT ROAD.
5. TRUCK ENTERS EQUIPMENT WASH PAD FOR WET DECON.
6. TRUCK EXITS EQUIPMENT WASH PAD AND RETURNS TO EXCAVATION AREA.

LEGEND

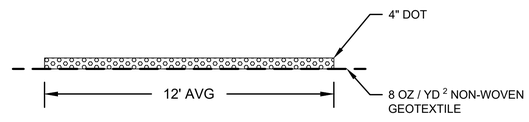
- CHAIN LINK FENCE
- COMPOST FILTER SOCK
- TRUCK TRANSFER DIRECTION
- STOCKPILE SOIL
- LOD — LIMIT OF DISTURBANCE 1/11 2 3

NOTES:

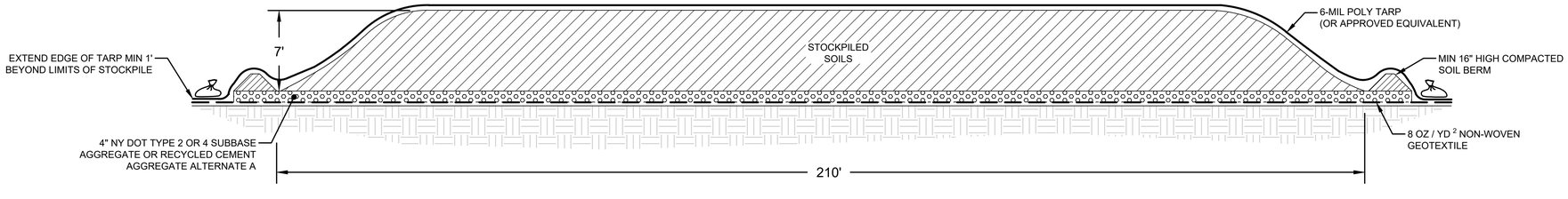
1. CONTRACTOR SHALL UTILIZE EARTH DIKE, COMPOST FILTER SOCK, AND DEWATERING SUMP PIT. 6
2. CONTRACTOR SHALL INSTALL TEMPORARY 6' TALL CHAIN LINK FENCING PARALLEL TO THE LIMITS OF CONSTRUCTION DISTURBANCE. FENCING SHALL INCLUDE VISUAL SCREENING.
3. SECTION(S) OF TEMPORARY FENCE WILL BE REMOVED TO CREATE AN ENTRANCE TO THE MSA AT THE BEGINNING OF EACH DAY OF UNLOADING OR LOADING OPERATIONS. SECTION LOCATION(S) MAY VARY. REMOVED SECTIONS SHALL BE RESTORED AND SECURED AT THE END OF EACH DAY OF MSA OPERATIONS.
4. STOCKPILING OF SOILS FOR POTENTIAL RE-USE SHALL BEGIN AT THE SOUTH END OF THE MSA.
5. STOCKPILING OF SOILS FOR POTENTIAL OFF-SITE TRANSPORT AND DISPOSAL AS NON-HAZARDOUS WASTE WILL BEGIN AT THE NORTH END OF THE MSA.
6. WINDROW LAYOUT ALLOWS FOR STOCKPILING OF APPROX. 4000 CUBIC YARDS (CY) OF SOIL. IF GREATER VOLUME IS REQUIRED, CONTRACTOR MAY REQUEST STOCKPILING OF SOILS WITH LIKE ANALYTICAL RESULTS APPROVED FOR RE-USE OR OFF-SITE DISPOSAL.
7. APPROX. 30 LINEAR FEET OF WINDROW IS EQUIVALENT TO 100 CY.
8. ALL TRUCKS WILL BE WET DECONNED BEFORE LEAVING THE MSA.



1/- DETAIL
SOIL STOCKPILE (SIDE VIEW)



3/- DETAIL
TRUCK LANE



2/- DETAIL
SOIL STOCKPILE (FRONT VIEW)

0 40' 80'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
5	6-30-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
4	6-13-17	ADDRESS NYSDEC COMMENTS	TSJ	WMS/AK
3	5-31-17	REVISE EXCAVATION AREAS AND SOIL STOCKPILE LOCATION	TSJ	WMS/AK
2	5-12-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

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

UNISYS

TITLE: MATERIAL STAGING AREA (MSA) PLAN

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
7/11/2017
DATE

STATE OF NEW YORK · ANDREA L. KRASNOFF · 089954-1 · LICENSED PROFESSIONAL ENGINEER

DESIGN BY:		DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	Stockpile Detail
REVIEWED BY:	PLB	DRAWING NO.:	14 OF 14
APPROVED BY:	AK		

P:\Local\Syracuse\Minneapolis\0832 Unisys\0832-400\0833-414.dwg, Stockpile Area, 7/11/2017 2:39:06 PM, bbrock