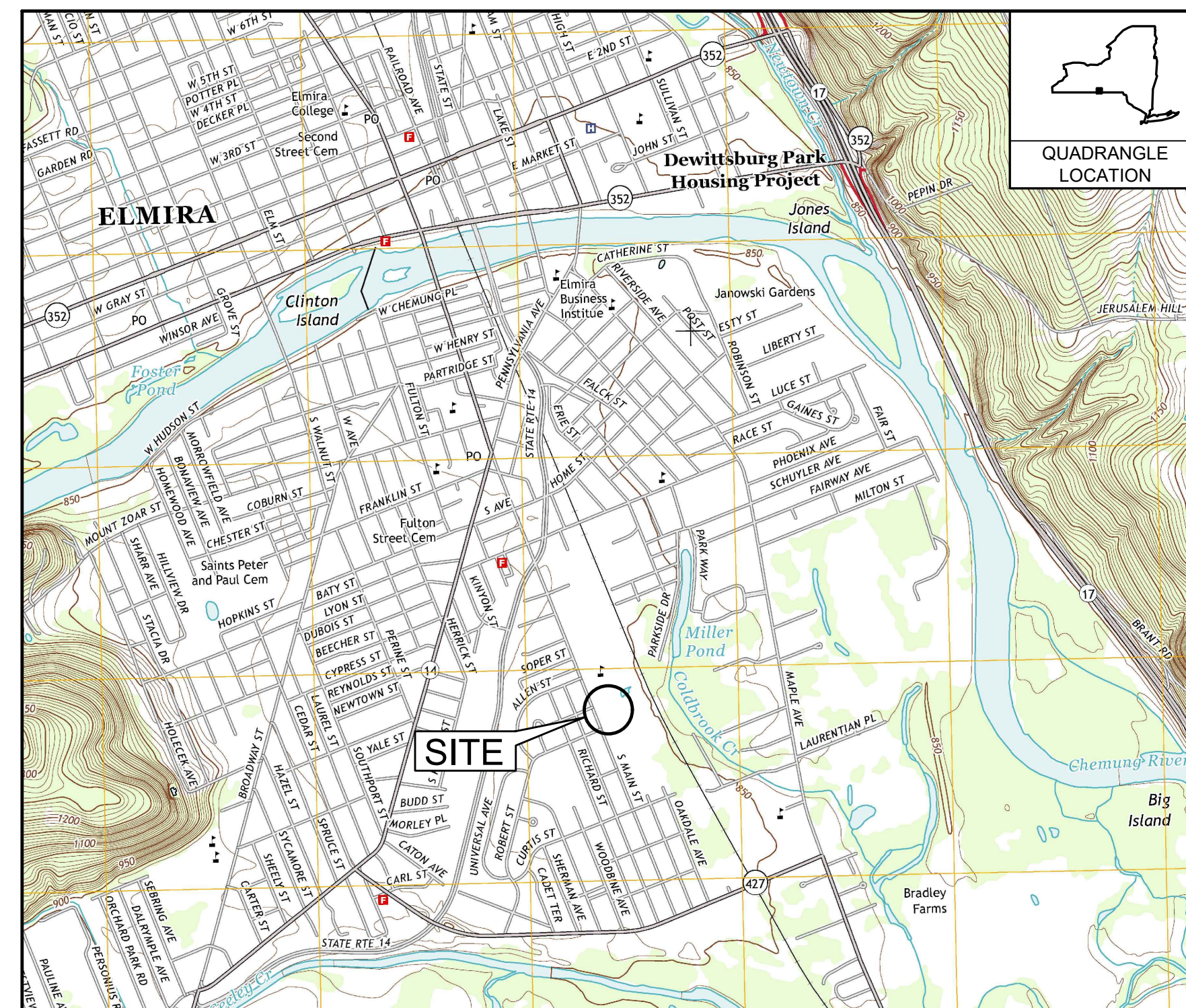


INTERIM REMEDIATION MEASURE #4

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

APRIL 2020



SOURCE: "ELMIRA, NEW YORK" USGS 7.5' QUADRANGLE, 2013

SCALE: 1" = 2000'

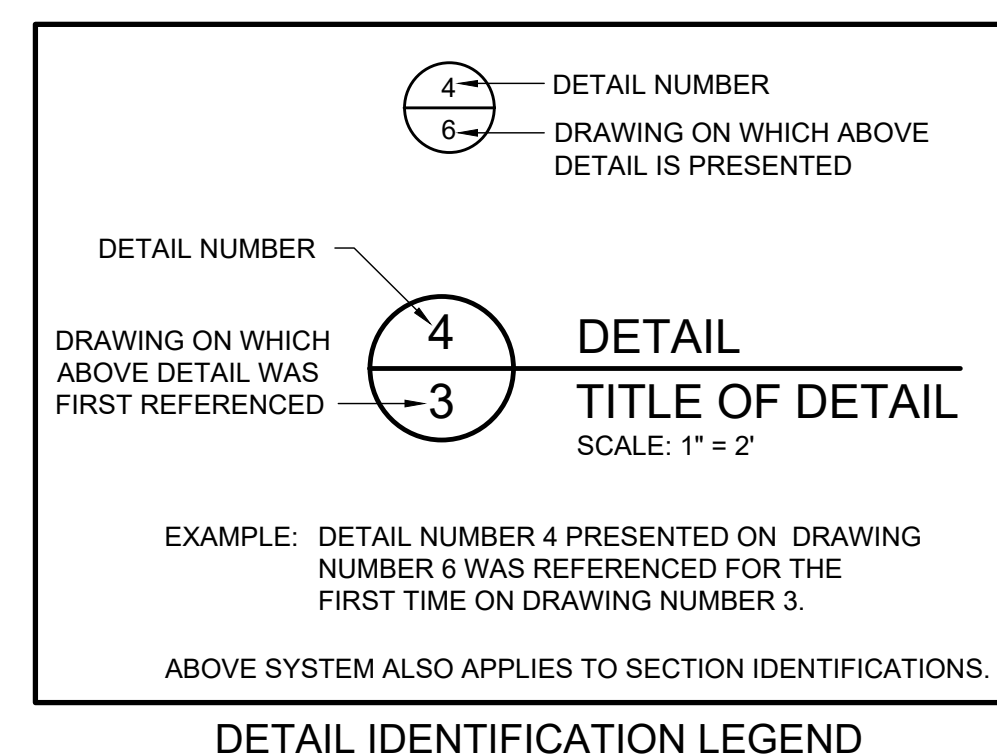
LOCATION MAP

DRAWING LIST	
NUMBER	TITLE
1	TITLE SHEET
2	OVERALL EXISTING CONDITIONS
3	SITE WORK PLAN
4	EXCAVATION GRADING PLAN
5	SUPPORT OF EXCAVATION PLAN
6	DEMOLITION PLAN
7	UTILITES REMOVAL
8	STORM DRAIN SYSTEM PUMP AROUND
9	TEMPORARY WATER SURVICE BYPASS
10	EXCAVATION PLAN 0-2 FT BGS
11	EXCAVATION PLAN 2-4 FT BGS
12	EXCAVATION PLAN 4-6 FT BGS
13	EXCAVATION PLAN 6-8 FT BGS
14	EXCAVATION PLAN 8-10 FT BGS
15	EXCAVATION PLAN 10-12 FT BGS
16	EXCAVATION PLAN 12-14 FT BGS
17	EXCAVATION PLAN 14-16 FT BGS
18	MATERIAL STAGING AREA PLAN (MSA) PLAN
19	TSCA ACCUMULATION AREA PLAN
20	DETAILS
21	EQUIPMENT WASH PAD
22	PROPOSED RESTORATION PLAN
23	PROPOSED UTILITY RESTORATION DETAILS
24	EROSION AND SEDIMENT CONTROL PLAN
25	EROSION AND SEDIMENT CONTROL DETAILS

PREPARED FOR: **UNISYS CORPORATION**
CORPORATE ENVIRONMENTAL AFFAIRS
3199 PILOT KNOB ROAD MS F1B05
EAGAN, MN 55121

PREPARED BY: **B&B Engineers & Geologists**
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10211 WINCOPIN CIRCLE, FLOOR 4
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REV	DATE	DESCRIPTION	BGF	AK
1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
			DRN	APP

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UNISYS

TITLE: TITLE SHEET

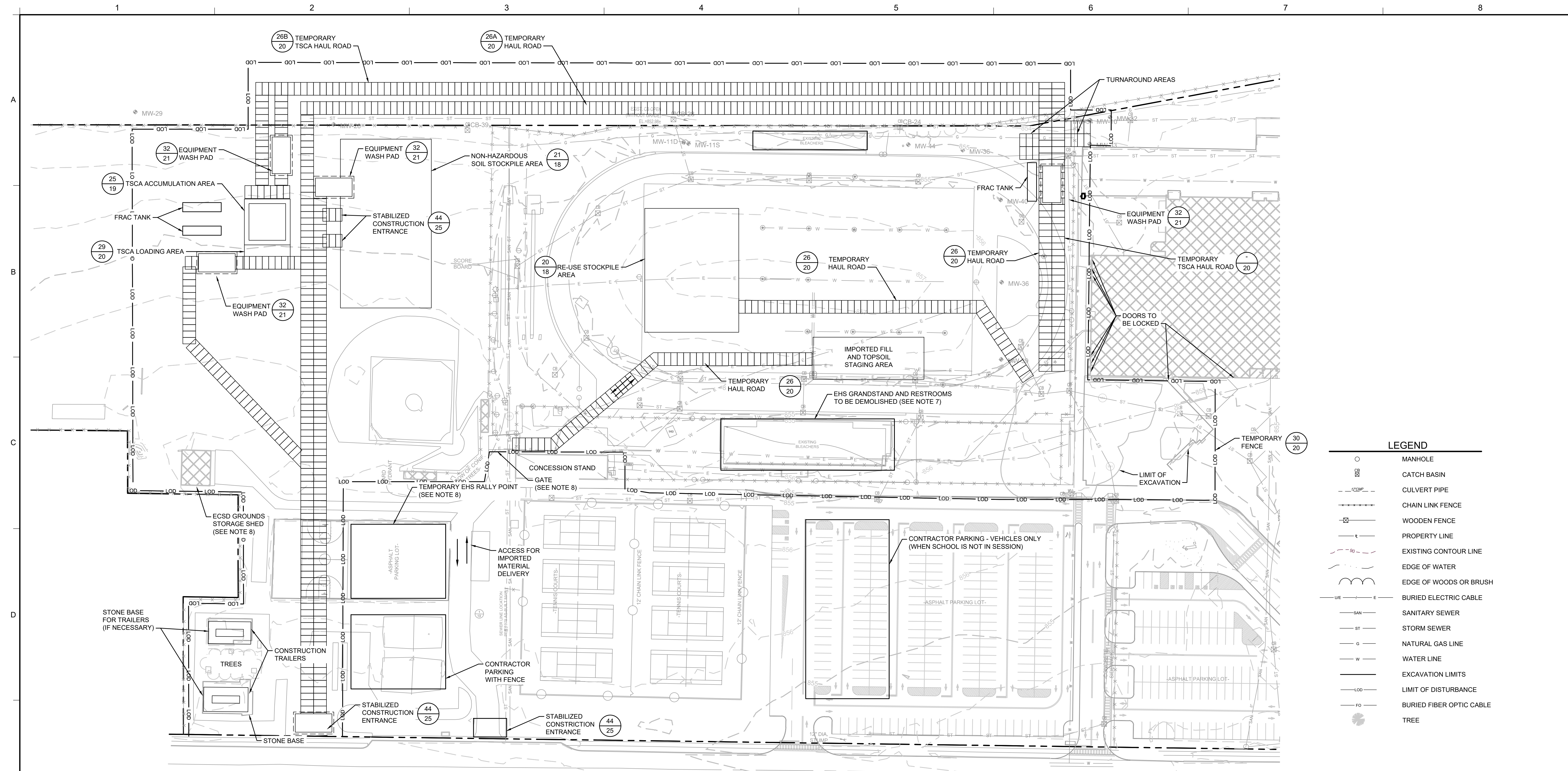
PROJECT: INTERIM REMEDIATION MEASURE #4

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

DESIGN BY:	AK	DATE:	APRIL 2020
DRAWN BY:	AD	PROJECT NO.:	MN0832I
CHECKED BY:	TBR	FILE:	MN0832I-01
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK		1 OF 25

5/19/2020
DATE

CONSTRUCTION DRAWING



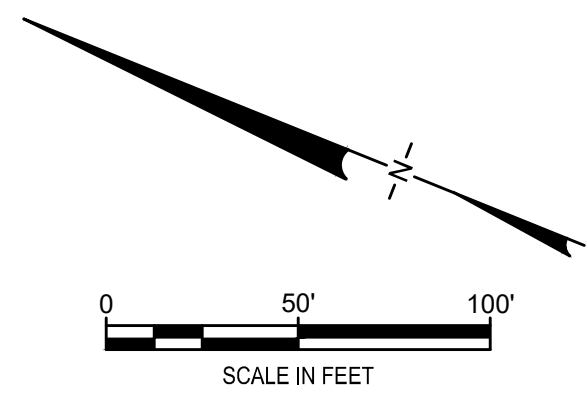
LEGEND

○	MANHOLE
⊗	CATCH BASIN
---	CULVERT PIPE
—X—X—	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
---	LIMIT OF DISTURBANCE
---	BURIED FIBER OPTIC CABLE
●	TREE



2 PLAN SITE WORK PLAN

NOTES:

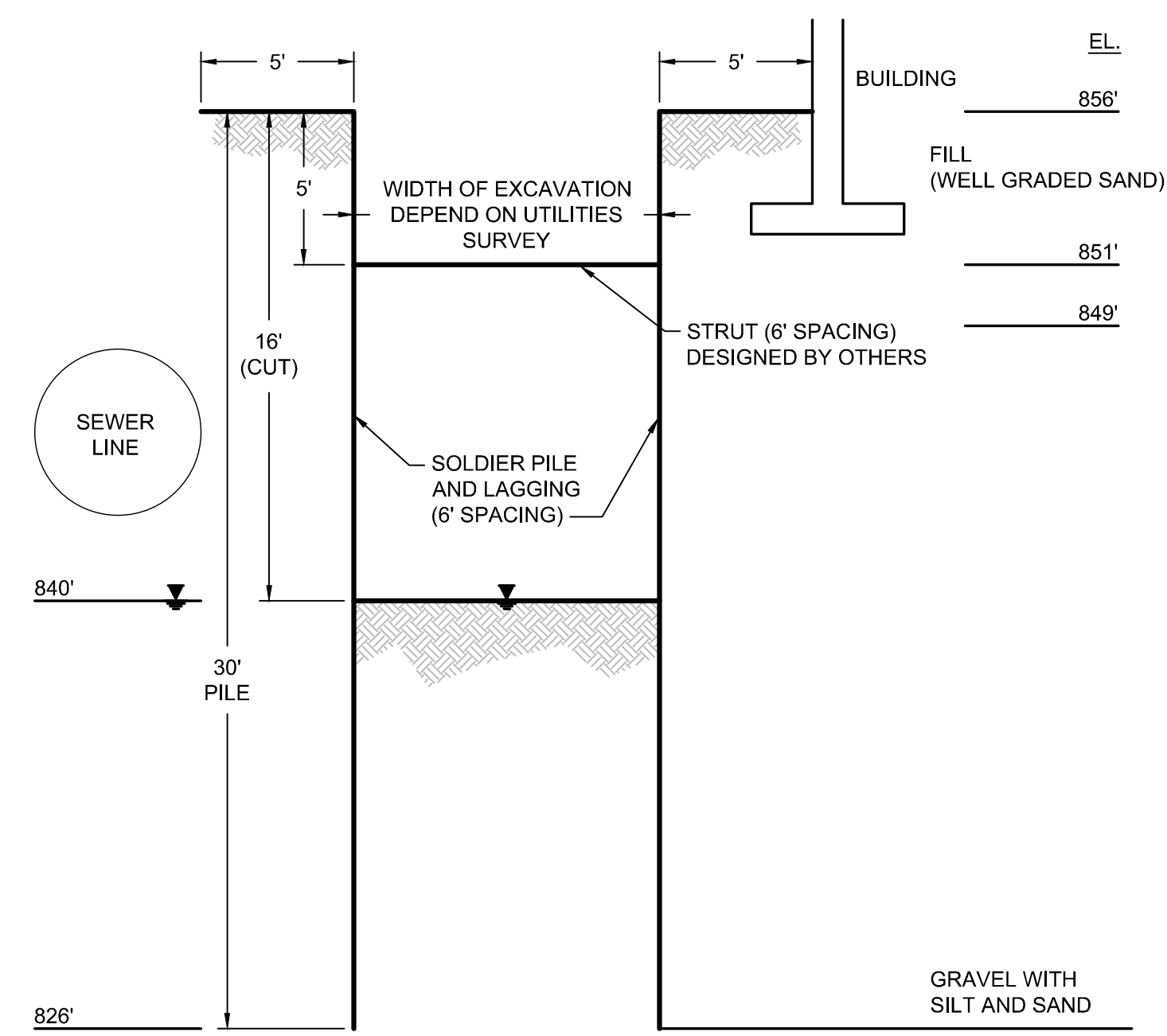
- CONSTRUCTION SEQUENCE:**
- INSTALL/MAINTAIN TEMPORARY SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH APPROVED SWPPP.
 - REMOVE EXISTING CHAIN-LINKED AS INDICATED ON SHEET 6.
 - INSTALL TEMPORARY FENCING AROUND THE LIMITS OF DISTURBANCE.
 - CLEAR THE CONSTRUCTION AREA WITHIN LIMITS OF DISTURBANCE.
 - DEMOLISH EHS GRANDSTANDS. SEE SECTION 02 41 16.
 - INSTALL TEMPORARY HAUL ROADS.
 - CONSTRUCT TSCA ACCUMULATION AREA AND STOCKPILE AREAS AS SHOWN ON DRAWING 3.
 - EXCAVATE AND DEMOLISH CONCRETE SIDEWALKS AS SHOWN ON DRAWING 6.
 - INSTALL SUPPORT OF EXCAVATION AS SHOWN ON DRAWING 5.
 - EXCAVATE SOILS AS SHOWN TO THE GRADES SHOWN ON DRAWING 6. SEE SECTION 02 61 13. 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 POTENTIAL RE-USE AS BACKFILL AS SHOWN ON DRAWINGS 9 TO 16.
 - REMOVE EXISTING UTILITIES WITHIN LIMITS OF EXCAVATION AS SHOWN ON DRAWINGS 7 IN ORDER TO COMPLETE EXCAVATION, CAP OR OTHERWISE PRESERVE ENDS OF UTILITIES TO ENABLE RE-CONNECTION IN-KIND REPLACEMENTS. REMOVED UTILITIES SHALL BE CHARACTERIZED FOR OFF-SITE DISPOSAL.
 - INSTALL STORMWATER BYPASS AS SHOWN ON SHEET 8.
 - INSTALL TEMPORARY WATER SERVICE CONNECTION AS SHOWN ON SHEET 9.
 - BACKFILL THE EXCAVATION USING STOCKPILED SOILS THAT ARE APPROVED FOR RE-USE. SEE DETAIL 29 ON DRAWING 18. CONFIRMATION SAMPLING AND APPROVAL TO BACKFILL SHALL BE REQUIRED PRIOR TO BACKFILLING.
 - RECONSTRUCT IN-KIND REMOVED UTILITIES.
 - FINISH EXCAVATION BACKFILL WITH APPROVED, OFF-SITE BORROW. THE UPPERMOST 2 FEET OF BACKFILL SHALL CONSIST OF A SOIL COVER SYSTEM. SEE DETAIL 31 ON DRAWING 20.
 - FINISH EXCAVATION TO FINAL GRADES SHOWN ON DRAWING 21.
 - RESTORE CONCRETE SIDEWALKS TO EXISTING CONDITIONS.
 - AMEND TOPSOIL AND INSTALL PERMANENT VEGETATION IN LOCATIONS THAT ARE TO BE GRASSED. REPLACE PLANTINGS WITH LIKE AND IN-KIND REPLACEMENTS APPROVED BY ECSD.
 - REMOVE TEMPORARY SEDIMENT AND EROSION CONTROLS.
 - SEE SHEET 3 FOR GENERAL NOTES.
 - 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.
 - CONSTRUCTION TRAFFIC PATTERNS MAY BE MODIFIED BY CONTRACTOR AS NECESSARY SUBJECT TO APPROVAL OF ENGINEER, ECSD AND NYSDEC.
 - 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 MANAGED IN ACCORDANCE WITH THE SOILS MANAGEMENT PLAN. STUMPS SHALL BE GROUND UP IN-PLACE AND WOOD CHIPS MANAGED WITH THE SOILS MANAGEMENT PLAN.
 - CONTRACTOR SHALL INSTALL TEMPORARY 6-FOOT TALL CHAIN LINK FENCING AROUND THE LIMITS OF CONSTRUCTION. FENCING SHALL INCLUDE VISUAL SCREENING.
 - TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS TRANSIT OF HAUL TRUCKS CARRYING SOILS WITH ≥ 50 MG/KG PCBs (TSCA HAUL TRUCKS).
 - CONTRACTOR SHALL DEMOLISH THE EXISTING HOME GRANDSTAND, PRESS BOX AND RESTROOMS IN ACCORDANCE WITH SPECIFICATION SECTION 02 41 16 AFTER CONSTRUCTION OF THE TEMPORARY RALLY POINT.
 - CONTRACTOR SHALL MAINTAIN ACCESS ECSD PERSONNEL, TO GROUND STORAGE SHED AND CONCESSION STAND STORAGE.
 - CONTRACTOR SHALL PROTECT EXISTING MONITORING WELLS WITHIN THE LIMIT OF DISTURBANCE DURING CONSTRUCTION AND RESTORE ACCESS DURING SITE RESTORATION.



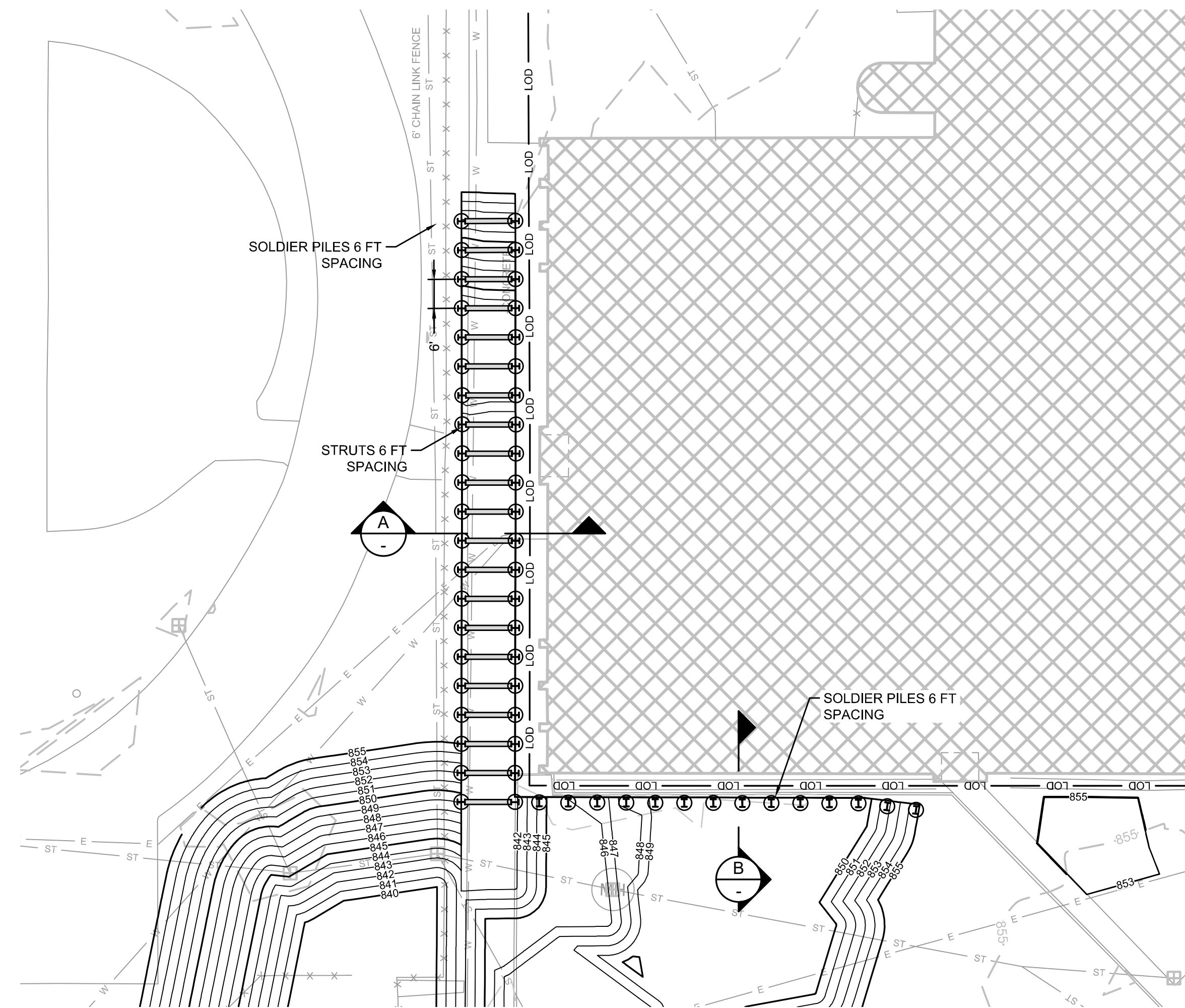
CONSTRUCTION DRAWING

1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
 				
TITLE: SITE WORK PLAN				
PROJECT: INTERIM REMEDIATION MEASURE #4				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
DESIGN BY: AK		DATE: APRIL 2020		
DRAWN BY: JWO		PROJECT NO.: MN0832I		
CHECKED BY: TBR		FILE: MN0832I-03		
REVIEWED BY: PLB		DRAWING NO.:		
APPROVED BY: AK		3 OF 25		

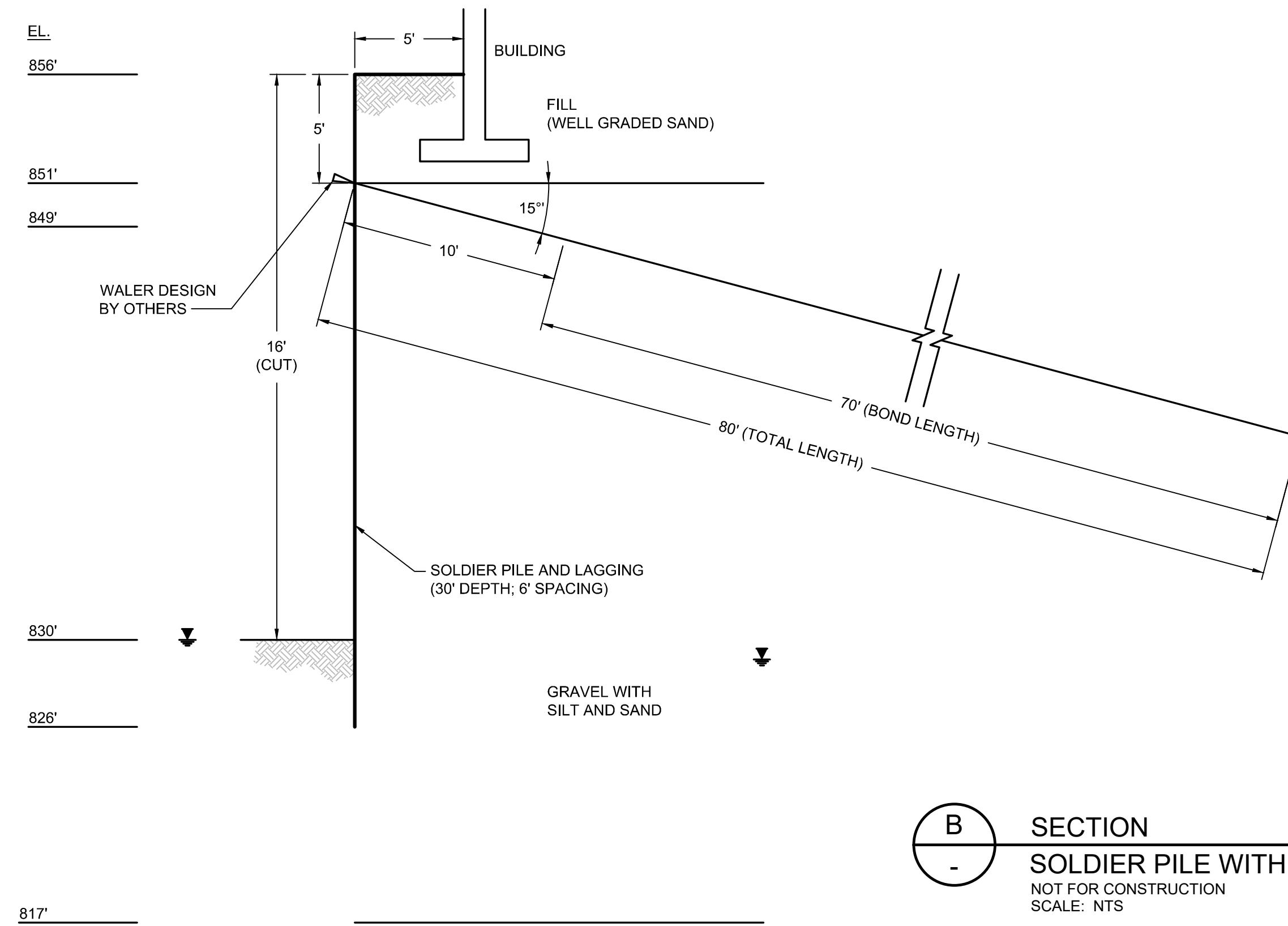
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A SECTION
SOLDIER PILE WITH LAGGING AND STRUT
NOT FOR CONSTRUCTION
SCALE: NTS



4 PLAN
EXCAVATION SUPPORT

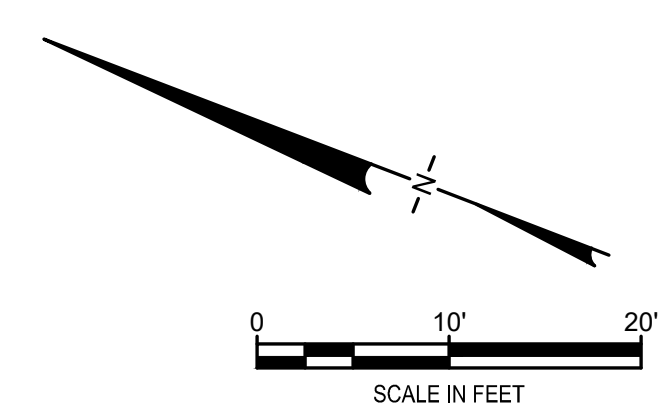


B SECTION
SOLDIER PILE WITH LAGGING AND TIEBACK
NOT FOR CONSTRUCTION
SCALE: NTS

NOTES:

- SEE SHEET 3 FOR GENERAL NOTES.
- SEE SHEET 4 FOR GRADING PLAN.
- SEE SECTION 31 15 00 FOR REQUIREMENTS REGARDING SUPPORT OF EXCAVATION. CONTINUOUS VIBRATION MONITORING TO BE CONDUCTED FOR THE BUILDING DURING INSTALLATION OF SUPPORT OF EXCAVATION ELEMENTS. SEE SECTION 02 22 13 FOR REQUIREMENTS.
- SOLDIER PILES AND STRUTS AND LAGGING INSTALLED ON THE NORTH WALL SHOWN ON SECTION A SHALL REMAIN IN PLACE AFTER EXCAVATION IS COMPLETED WITH THE ACCEPTANCE OF ECSD.
- SOLDIER PILES SHOWN ON SECTION B SHALL REMAIN IN PLACE AFTER EXCAVATION IS COMPLETED WITH THE ACCEPTANCE OF ECSD. SOLDIER PILES SHALL BE CUT OFF APPROX. 36" BELOW FINISHED GRADE (8" BELOW FINISHED GRADE AT DOORWAYS).
- LAGGING INSTALLED ON THE SOUTH WALL OF SECTION A AND LAGGING AND TIEBACKS INSTALLED ON SECTION B SHALL BE REMOVED AFTER EXCAVATION IS COMPLETED. GEOTEXTILE DEMARCATION SHALL BE USED IF RESIDUAL OR REMAINING CONTAMINATION IS LEFT IN PLACE.
- THE TYPE AND LOCATION OF SUPPORT OF EXCAVATION ELEMENTS THAT REMAIN IN PLACE AFTER EXCAVATION IS COMPLETED WILL BE SURVEYED PRIOR TO BACKFILLING. SEE SECTION 01 78 29.
- DOCUMENTATION SAMPLES SHALL BE COLLECTED BY ENGINEER AS EXCAVATION PROCEEDS, BEFORE LAGGING IS INSTALLED.
- ECSD WILL DO AN INSPECTION OF EXISTING CONDITION PRIOR TO DRIVING SOLDIER PILES TO DOCUMENT CONDITIONS OF MASONRY, TILE AND OTHER INTERIOR FINISHES. UPON COMPLETION, ECSD WILL DO A FOLLOW UP INSPECTION TO NOTE ANY CRACKING OR SETTLEMENT IN THE BUILDING FOLLOWING PILE ACTIVITIES. ANY DAMAGE SHALL BE SUBJECT TO REPAIR.

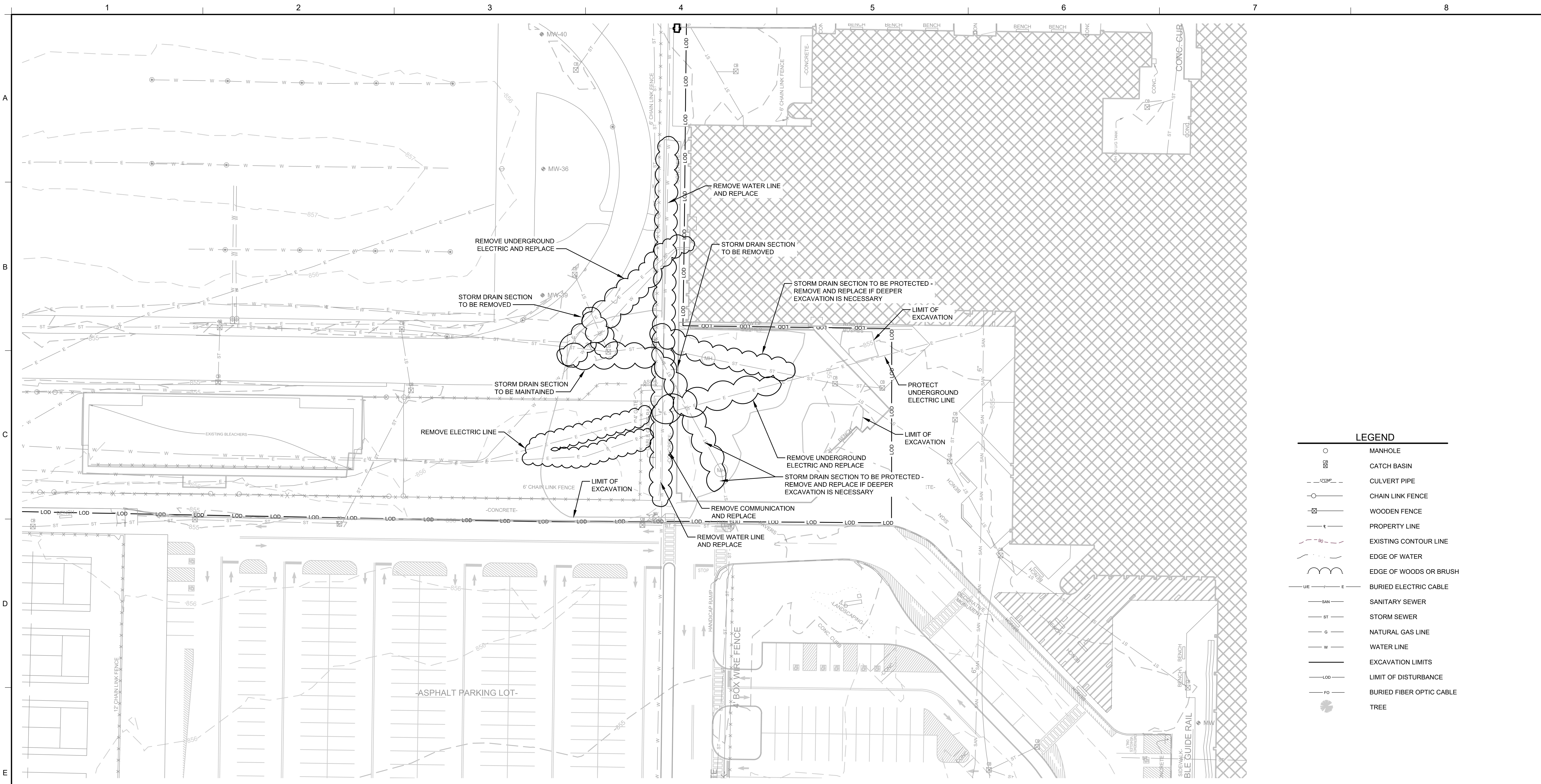
LEGEND			
	MANHOLE		HISTORIC SPOT ELEVATION
	CATCH BASIN		HISTORIC STRUCTURE
	CULVERT PIPE		EXISTING FOOTING
	CHAIN LINK FENCE		PROPOSED SPOT ELEVATION
	WOODEN FENCE		
	PROPERTY LINE		
	EXISTING CONTOUR LINE		
	EDGE OF WATER		
	EDGE OF WOODS OR BRUSH		
	BURIED ELECTRIC CABLE		
	SANITARY SEWER		
	STORM SEWER		
	NATURAL GAS LINE		
	WATER LINE		
	EXCAVATION LIMITS		
	LIMIT OF DISTURBANCE		
	BURIED FIBER OPTIC CABLE		
	TREE		



1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
TITLE: SUPPORT OF EXCAVATION PLAN				
PROJECT: INTERIM REMEDIATION MEASURE #4				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
DESIGN BY: AK		DATE: APRIL 2020		
DRAWN BY: JWO		PROJECT NO.: MN0832I		
CHECKED BY: TBR		FILE: MN0832I-05		
REVIEWED BY: PLB		DRAWING NO.:		
APPROVED BY: AK		5 OF 25		
 SIGNATURE 5/19/2020 DATE				

CONSTRUCTION DRAWING

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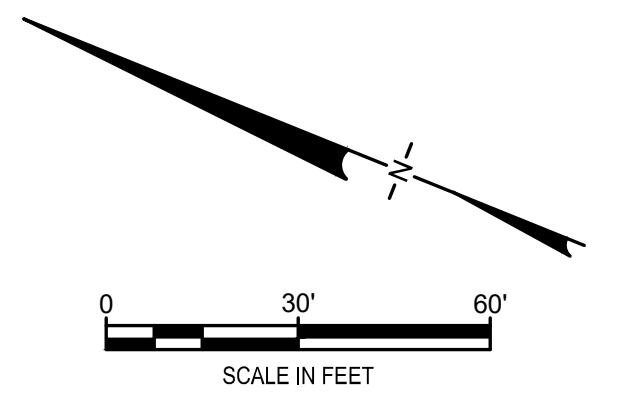


LEGEND





○	MANHOLE
⊗	CATCH BASIN
---	CULVERT PIPE
⊗	CHAIN LINK FENCE
⊗	WOODEN FENCE
---	PROPERTY LINE
---	EXISTING CONTOUR LINE
---	EDGE OF WATER
---	EDGE OF WOODS OR BRUSH
---	BURIED ELECTRIC CABLE
---	SANITARY SEWER
---	STORM SEWER
---	NATURAL GAS LINE
---	WATER LINE
---	EXCAVATION LIMITS
---	LIMIT OF DISTURBANCE
---	BURIED FIBER OPTIC CABLE
●	TREE

- NOTES:**
- SEE DRAWING 8 FOR STORMWATER BYPASS.
 - SEE DRAWING 9 FOR TEMPORARY WATER SERVICE.
 - 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.
 - UTILITY REMOVAL WILL BE LIMITED TO UTILITIES UNCOVERED DURING EXCAVATION SHOWN ON DRAWING 6.
 - 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.
 - CUT AND TEMPORARILY CAP UTILITIES IN A MANNER THAT ALLOWS FOR RE-CONNECTION OF IN-KIND REPLACEMENT UTILITIES DURING BACKFILLING.

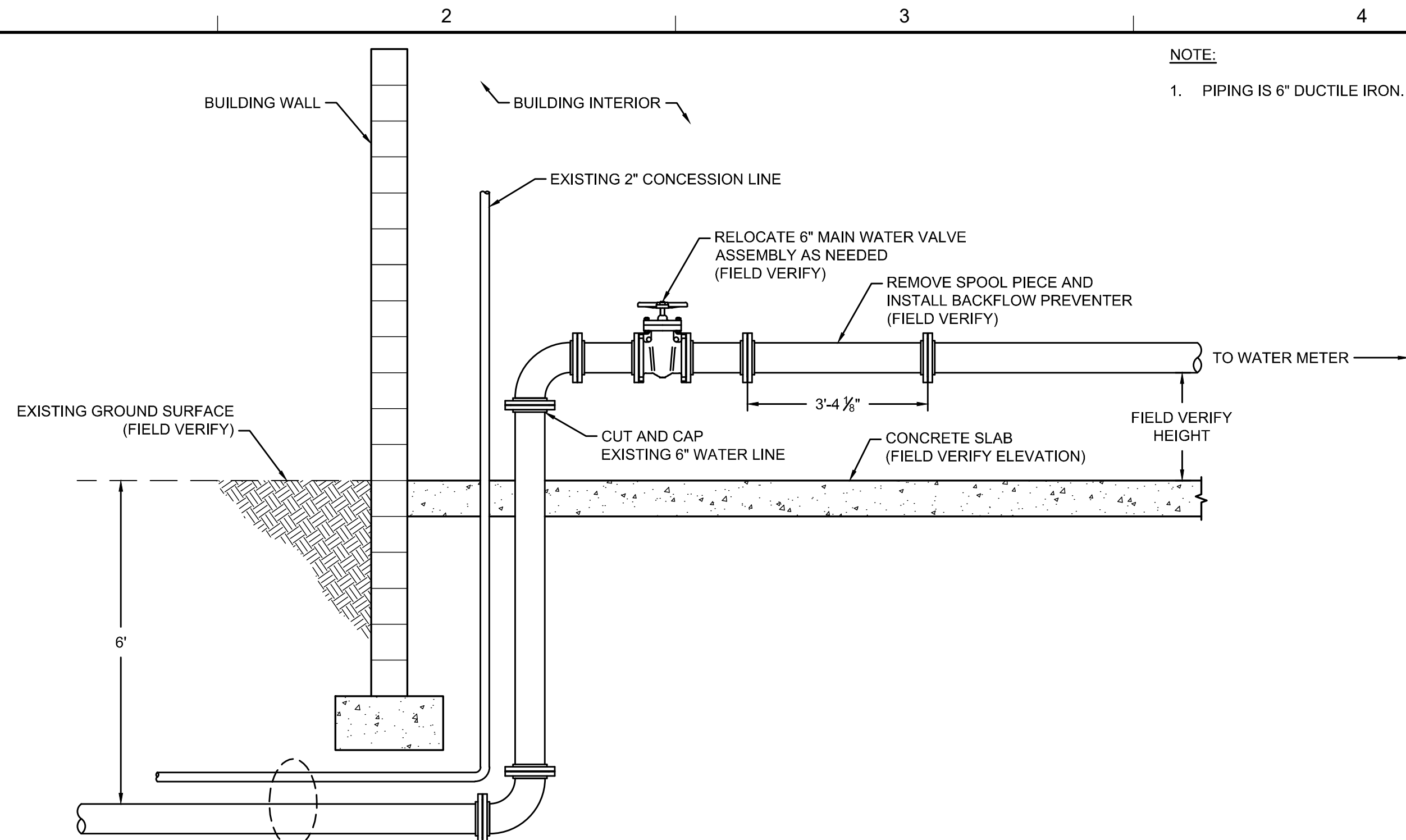
**6 PLAN
UTILITY ABANDONMENT**



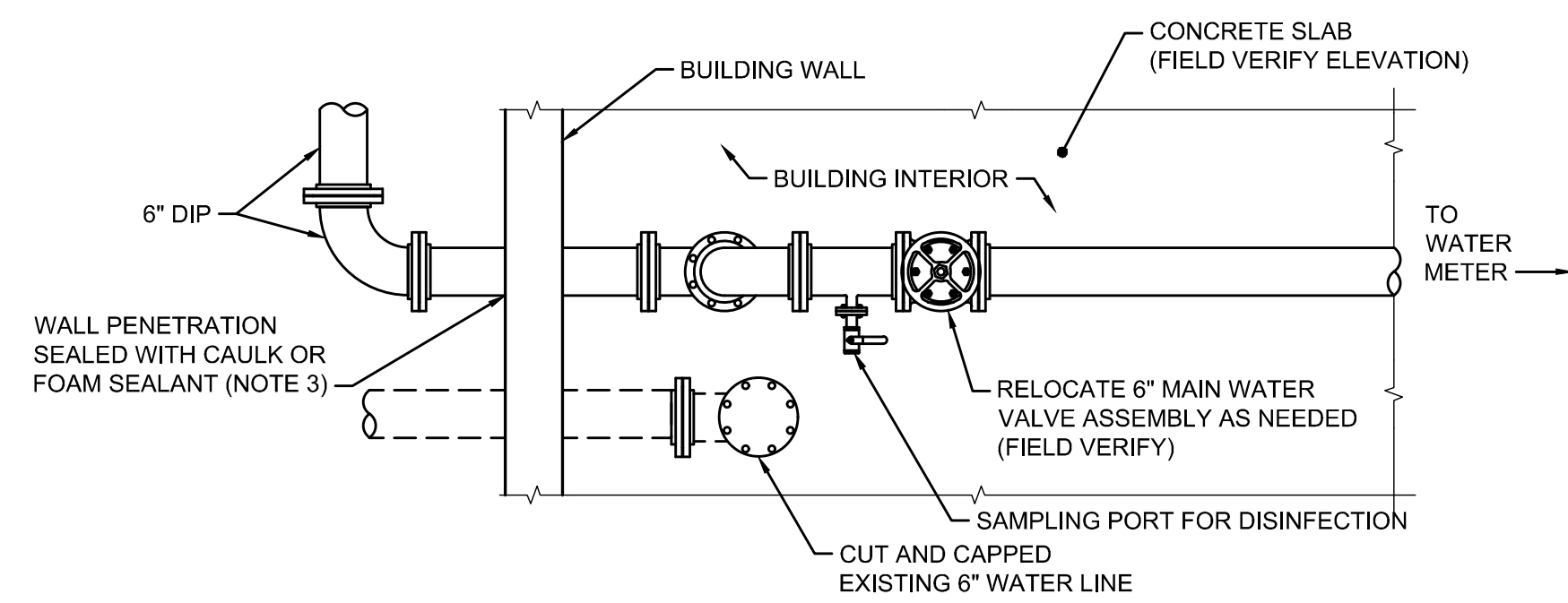
CONSTRUCTION DRAWING

1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
 				
TITLES: UTILITES REMOVAL				
PROJECT: INTERIM REMEDIATION MEASURE #4				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
DESIGN BY: AK DRAWN BY: JWO CHECKED BY: TBR REVIEWED BY: PLB APPROVED BY: AK		DATE: APRIL 2020 PROJECT NO.: MN0832I FILE: MN0832I-07 DRAWING NO.: 7 OF 25		
SIGNATURE  5/19/2020 DATE				

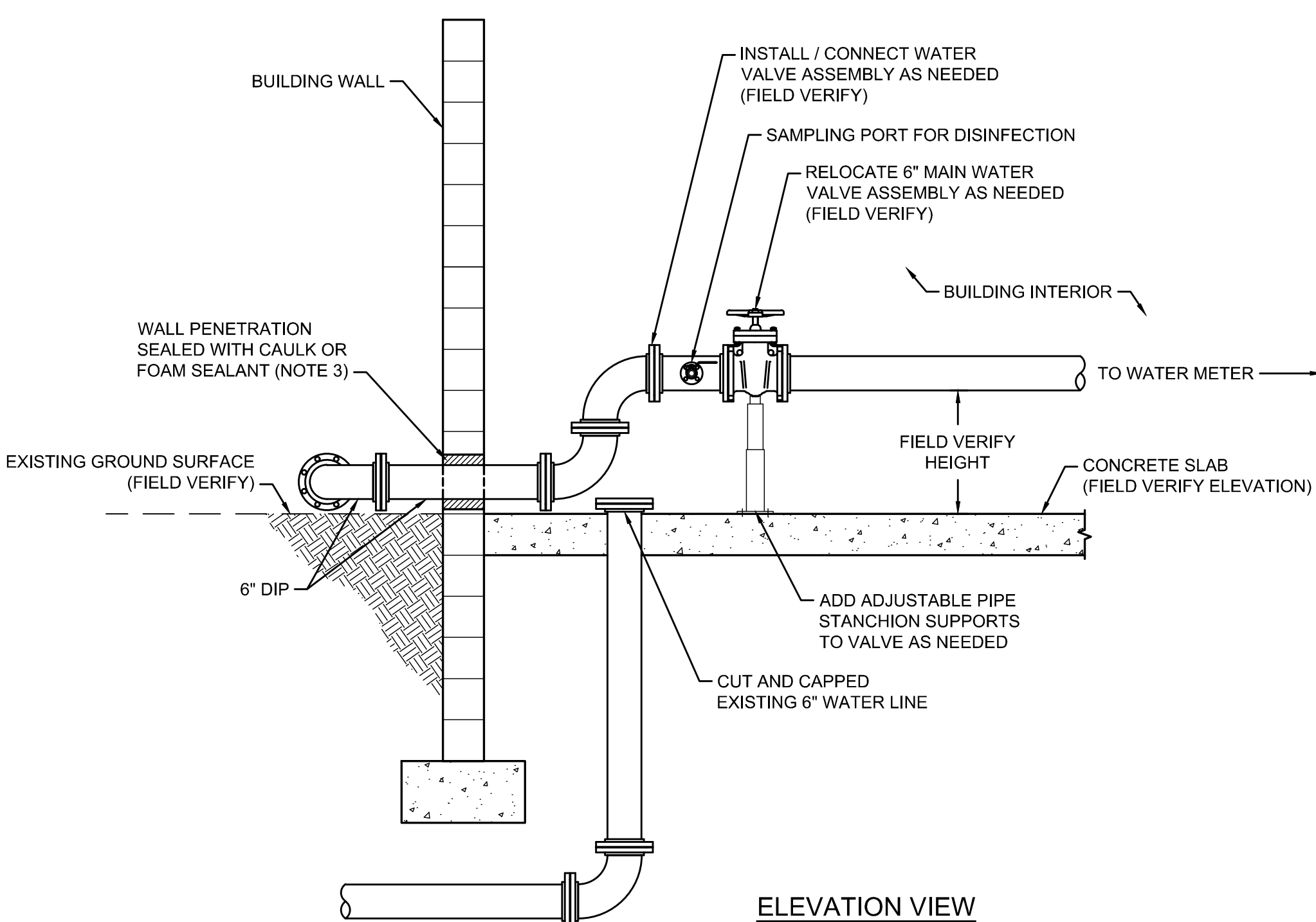
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9 DETAIL
EXISTING WATER SUPPLY CONNECTION
SCALE: 1" = 2'

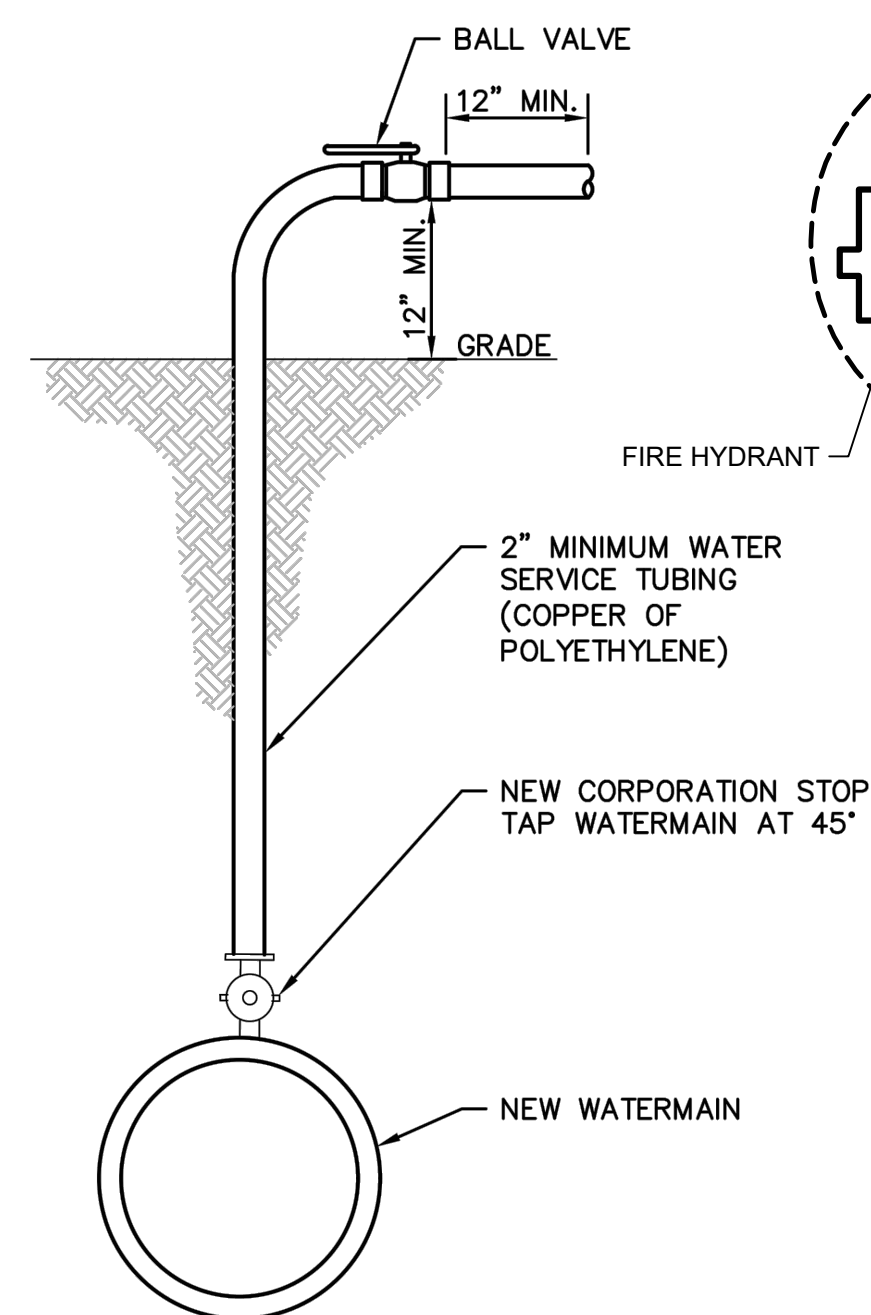


PLAN VIEW



10 DETAIL
PROPOSED TEMPORARY WATER SUPPLY CONNECTION
SCALE: 1" = 2'

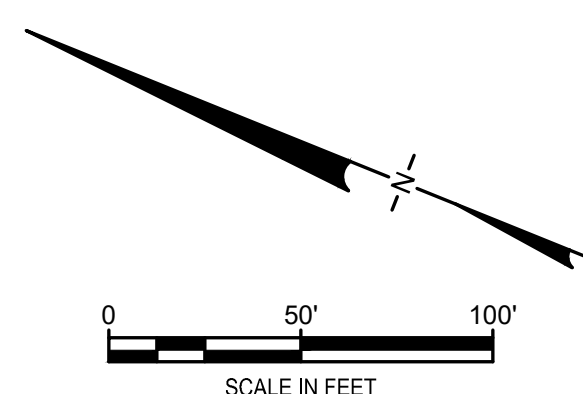
NOTE:
1. PIPING IS 6" DUCTILE IRON.



11 DETAIL
SAMPLING TAP
SCALE: NOT TO SCALE

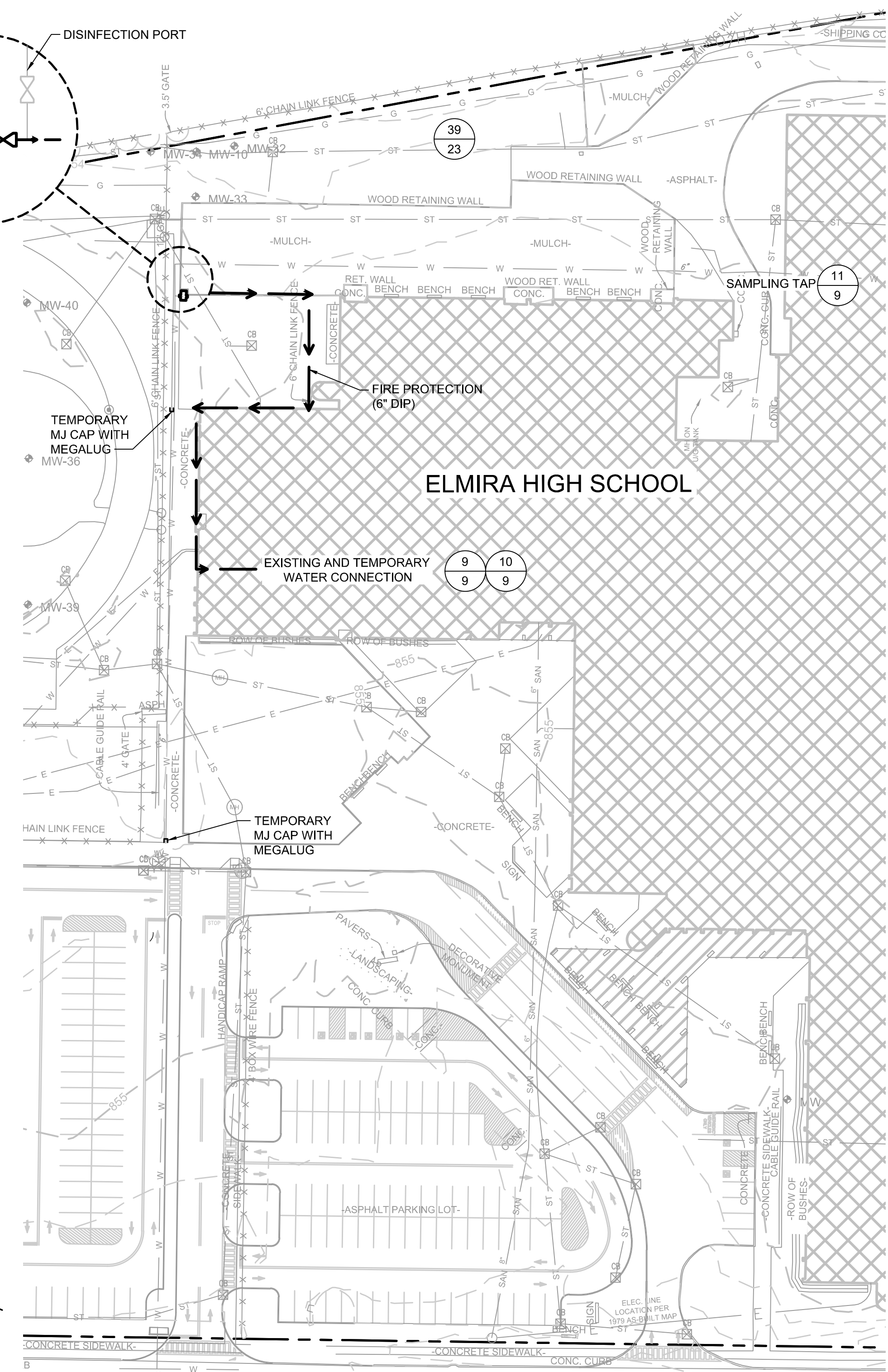
NOTE:
1. UPON NOTIFICATION FROM THE NYS HEALTH DEPARTMENT THAT A SATISFACTORY WATER SAMPLE HAS BEEN OBTAINED, SHUT DOWN CORPORATION STOP AND REMOVE THE SERVICE TUBING.
2. IMMEDIATELY PRIOR TO PLACING THE WATERMAIN IN SERVICE THE CONTRACTOR SHALL REMOVE ALL CORPORATIONS ASSOCIATED WITH TEMPORARY FACILITIES AND REPLACE WITH THREADED BRASS PLUGS.
3. COST FOR TEMPORARY FILLING/ BLOW-OFF TAP TO BE INCLUDED IN PIPE ITEM.

NOTES:
1. PIPING IS 6" DUCTILE IRON.
2. BACKFLOW PREVENTER MUST BE COMPLIANT WITH ASSE 1024 OR CSA B64.
3. EXISTING WATER LINE AND WALL PENETRATION SHALL BE RESTORED TO ORIGINAL CONDITION AFTER REMOVAL OF TEMPORARY CONNECTION.
4. CONTRACTOR SHALL COORDINATE USE OF FIRE HYDRANT WITH ECSD AND ELMIRA WATER BOARD.



LEGEND	
--- 12" CMP ---	CULVERT PIPE
- x - x - x -	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
- - - - -	TREE
(M)	MANHOLE
(CB)	CATCH BASIN
(SM)	SANITARY MANHOLE
(MP)	METAL POLE
(GP)	GATE POST
(SP)	SPRINKLER
(SL)	STREET LIGHT
(EB)	ELECTRIC BOX
(WV)	WATER VALVE
(H)	HYDRANT
(MW)	MONITORING WELL

CONSTRUCTION DRAWING



8 PLAN
TEMPORARY WATER SERVICE
SCALE: 1" = 50'

REV	DATE	DESCRIPTION	BGF	AK
1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
			DRN	APP

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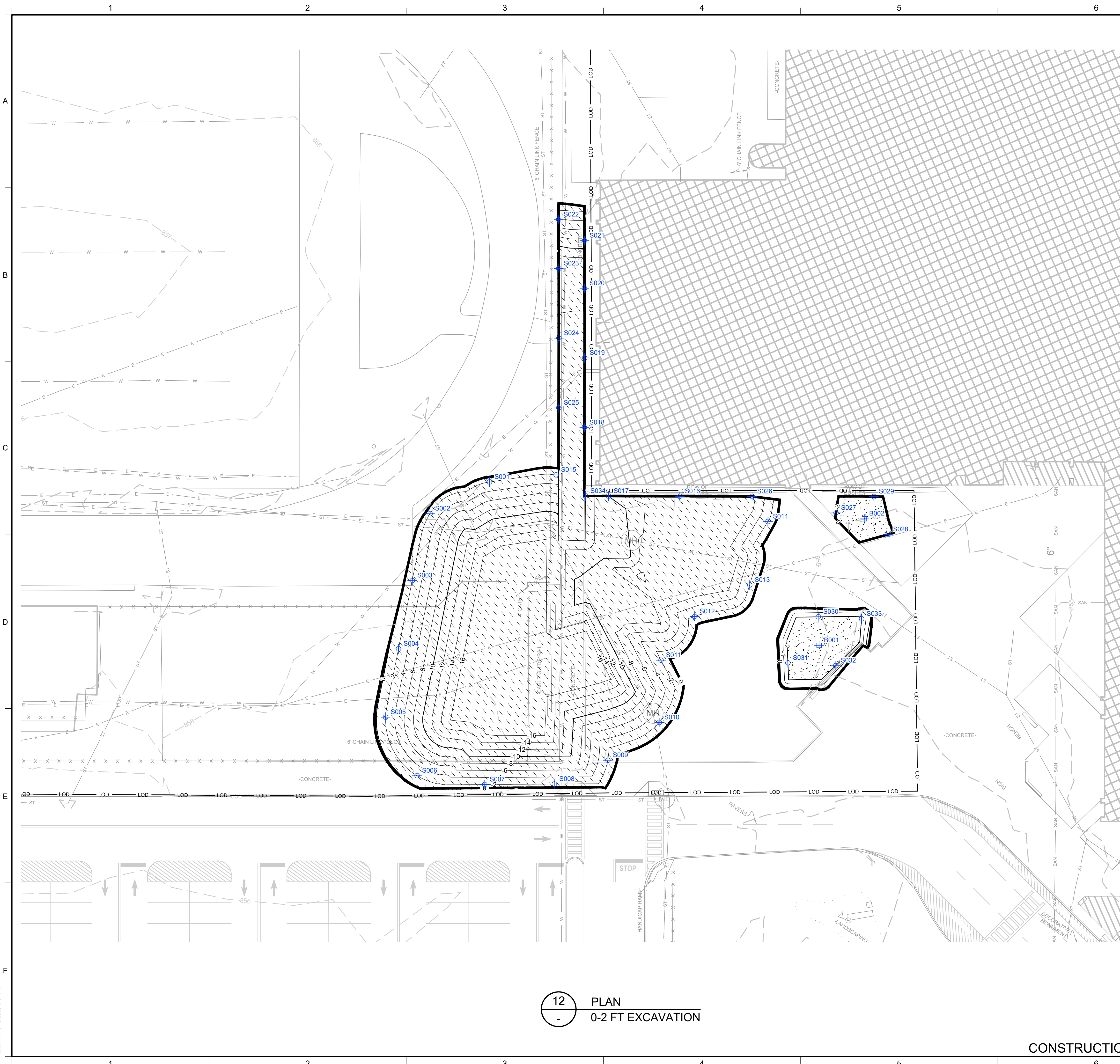
TITLE: TEMPORARY WATER SERVICE BYPASS

PROJECT: INTERIM REMEDIATION MEASURE #4

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

DESIGN BY: AK	DATE: APRIL 2020
DRAWN BY: AD	PROJECT NO.: MN0832I
CHECKED BY: TBR	FILE: MN0832I-09
REVIEWED BY: PLB	DRAWING NO.: 9 OF 25
APPROVED BY: AK	

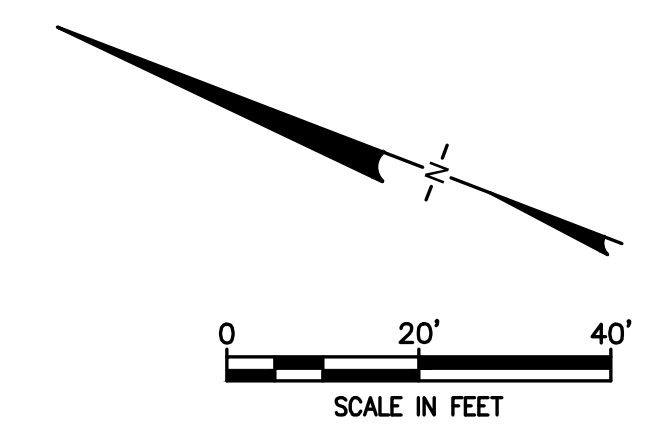
5/19/2020
DATE



LEGEND

	PRE-DELINEATION CONFIRMATION SAMPLE		NON RCRA/TSCA FOR OFF-SITE DISPOSAL (PCBS >=10 AND < 50 MG/KG)
	MANHOLE		LAYBACK SOIL TO BE REUSED AS BACKFILL PENDING TESTING
	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		
	LIMIT OF DISTURBANCE		
	BURIED FIBER OPTIC CABLE		
	TREE		
	TSCA OVERLAY AREA		
	BOTTOM AREA		
	SIDEWALL SAMPLE		
	BOTTOM SAMPLE		

- NOTES:**
- SEE SHEET 3 FOR GENERAL NOTES.
 - SEE SHEET 6 FOR GRADING PLAN.
 - SEE SECTION 02 61 00 FOR REQUIREMENTS REGARDING EXCAVATION.
 - EXCAVATED SOILS WITH PCBs BELOW 50 MG/KG SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING PURSUANT TO THE CATEGORIES SHOWN. SEE SECTION 2.4 OF IRM #4 WORK PLAN FOR SAMPLING REQUIREMENTS PRIOR TO STOCKPILING.
 - SOILS WITH PCBs > 50 Mg/Kg SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - SOILS WITH PCBs > 3.2 Mg/Kg FROM AT OR NEAR THE WATER TABLE SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - LAYBACK SOILS SHOWN ON SHEETS 10 TO 17 SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING BY THE ENGINEER FOR POTENTIAL REUSE PER PER-10 SECTION 5.4(e).
 - SIDEWALL AND BOTTOM SAMPLE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BASED ON FIELD OBSERVATIONS AND CHANGES TO THE EXCAVATION PLAN.
 - APPROVAL OF ENGINEER AND NYSDEC REQUIRED BEFORE BACKFILLING AREAS WHERE CONFIRMATION SIDEWALL AND BOTTOM SAMPLES ARE COLLECTED.

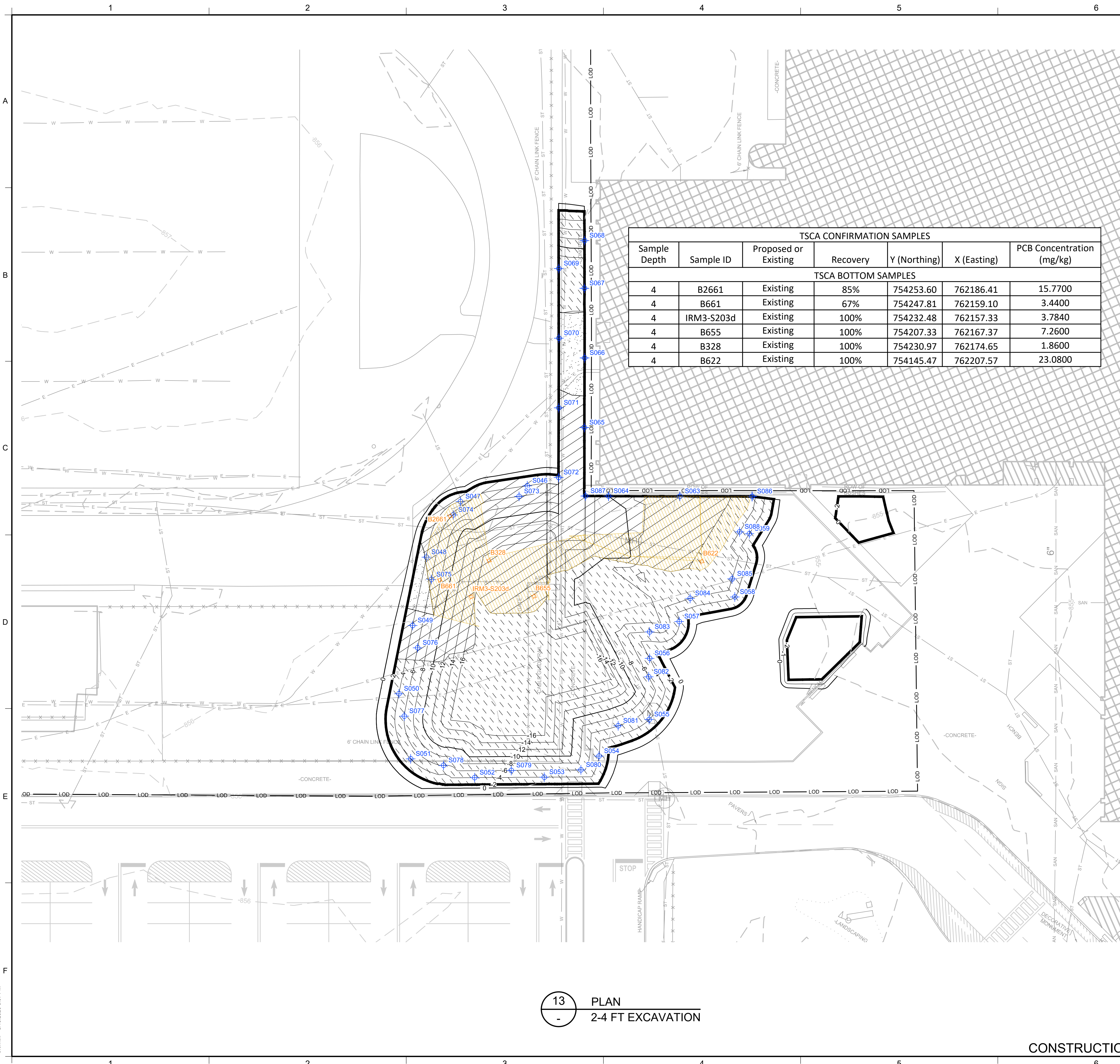


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12 PLAN
0-2 FT EXCAVATION

CONSTRUCTION DRAWING

1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
		 <i>an affiliate of Geosyntec Consultants</i>		
TITLE: 0-2 FT EXCAVATION				
PROJECT: INTERIM REMEDIATION MEASURE #4				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
DESIGN BY: AK		DATE: APRIL 2020		
DRAWN BY: AD		PROJECT NO.: MN0832I		
CHECKED BY: TBR		FILE: MN0832I-10-17		
REVIEWED BY: PLB		DRAWING NO.:		
APPROVED BY: AK		10 OF 25		
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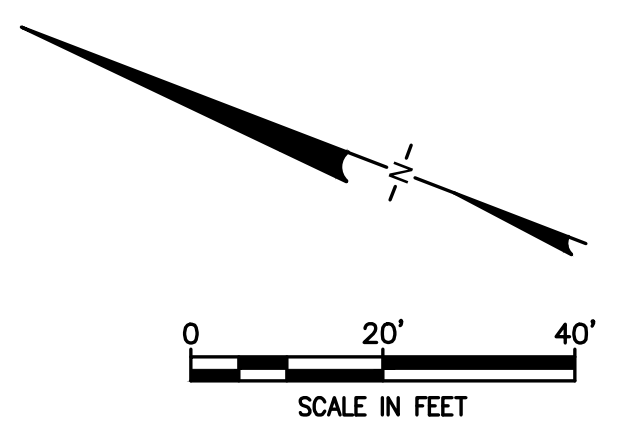


TSCA CONFIRMATION SAMPLES						
Sample Depth	Sample ID	Proposed or Existing	Recovery	Y (Northing)	X (Easting)	PCB Concentration (mg/kg)
TSCA BOTTOM SAMPLES						
4	B2661	Existing	85%	754253.60	762186.41	15.7700
4	B661	Existing	67%	754247.81	762159.10	3.4400
4	IRM3-S203d	Existing	100%	754232.48	762157.33	3.7840
4	B655	Existing	100%	754207.33	762167.37	7.2600
4	B328	Existing	100%	754230.97	762174.65	1.8600
4	B622	Existing	100%	754145.47	762207.57	23.0800

LEGEND

	PRE-DELINEATION CONFIRMATION SAMPLE		NON RCRA/TSCA FOR OFF-SITE DISPOSAL (PCBS >=10 AND < 50 MG/KG)
	MANHOLE		TSCA SOILS FOR OFF-SITE DISPOSAL (PCBS >= 50 MG/KG)
	CATCH BASIN		LAYBACK SOIL TO BE REUSED AS BACKFILL PENDING TESTING
	CULVERT PIPE		TSCA BOTTOMS
	CHAIN LINK FENCE		PROPOSED TSCA SIDEWALL OR BOTTOM SAMPLE
	WOODEN FENCE		EXISTING TSCA BOTTOM SAMPLE
	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		
	LIMIT OF DISTURBANCE		
	BURIED FIBER OPTIC CABLE		
	TREE		
	TSCA OVERLAY AREA		
	BOTTOM AREA		
	SIDEWALL SAMPLE		
	BOTTOM SAMPLE		

- NOTES:
- SEE SHEET 3 FOR GENERAL NOTES.
 - SEE SHEET 6 FOR GRADING PLAN.
 - SEE SECTION 02 61 00 FOR REQUIREMENTS REGARDING EXCAVATION.
 - EXCAVATED SOILS WITH PCBs BELOW 50 MG/KG SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING PURSUANT TO THE CATEGORIES SHOWN. SEE SECTION 2.4 OF IRM #4 WORK PLAN FOR SAMPLING REQUIREMENTS PRIOR TO STOCKPILING.
 - SOILS WITH PCBs > 50 Mg/Kg SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - SOILS WITH PCBs > 3.2 Mg/Kg FROM AT OR NEAR THE WATER TABLE SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - LAYBACK SOILS SHOWN ON SHEETS 10 TO 17 SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING BY THE ENGINEER FOR POTENTIAL REUSE PER DER-10 SECTION 5.4(e).
 - SIDEWALL AND BOTTOM SAMPLE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BASED ON FIELD OBSERVATIONS AND CHANGES TO THE EXCAVATION PLAN.
 - APPROVAL OF ENGINEER AND NYSDEC REQUIRED BEFORE BACKFILLING AREAS WHERE CONFIRMATION SIDEWALL AND BOTTOM SAMPLES ARE COLLECTED.

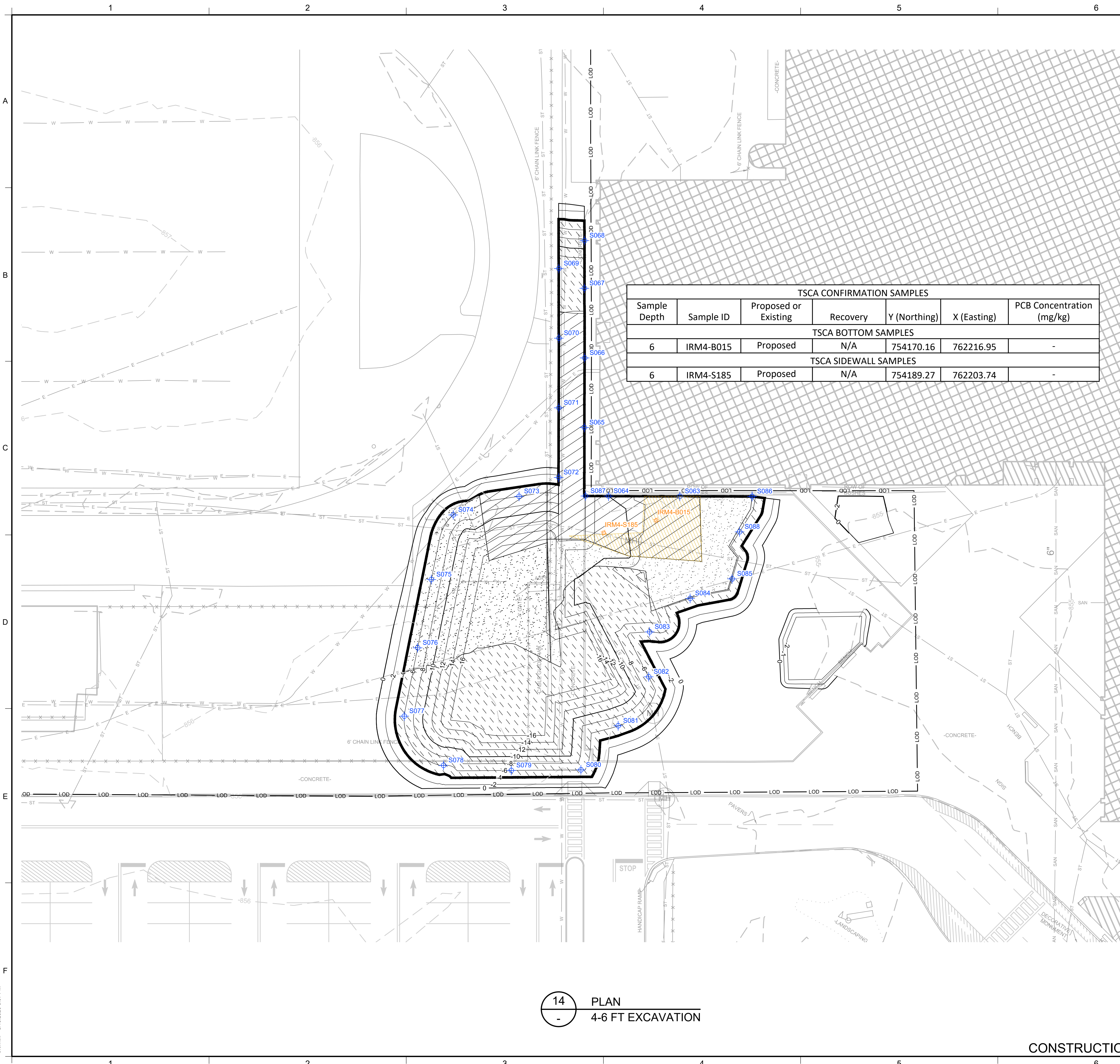


1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
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PROJECT: INTERIM REMEDIATION MEASURE #4				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
 SIGNATURE 5/19/2020 DATE		 DESIGN BY: AK DRAWN BY: AD CHECKED BY: TBR REVIEWED BY: PLB APPROVED BY: AK		
		DATE: APRIL 2020		
		PROJECT NO.: MN0832I		
		FILE: MN0832I-10-17		
		DRAWING NO.: 11 OF 25		

13 PLAN
2-4 FT EXCAVATION

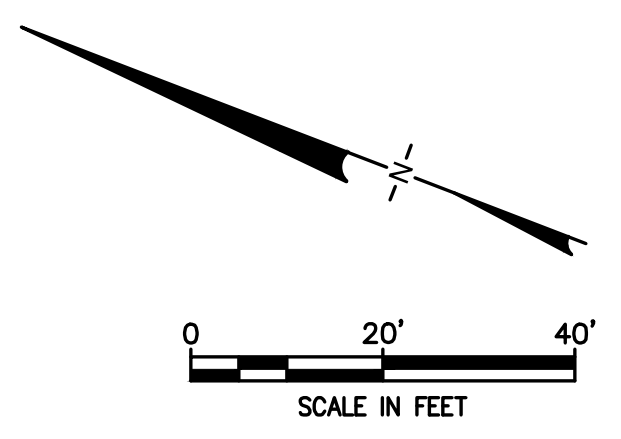
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LEGEND			
	PRE-DELINEATION CONFIRMATION SAMPLE		NON RCRA/TSCA FOR OFF-SITE DISPOSAL (PCBS >=10 AND < 50 MG/KG)
	MANHOLE		TSCA SOILS FOR OFF-SITE DISPOSAL (PCBS >= 50 MG/KG)
	CATCH BASIN		LAYBACK SOIL TO BE REUSED AS BACKFILL PENDING TESTING
	CULVERT PIPE		TSCA BOTTOMS
	CHAIN LINK FENCE		PROPOSED TSCA SIDEWALL OR BOTTOM SAMPLE
	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		
	LIMIT OF DISTURBANCE		
	BURIED FIBER OPTIC CABLE		
	TREE		
	TSCA OVERLAY AREA		
	BOTTOM AREA		
	SIDEWALL SAMPLE		
	BOTTOM SAMPLE		

- NOTES:
- SEE SHEET 3 FOR GENERAL NOTES.
 - SEE SHEET 6 FOR GRADING PLAN.
 - SEE SECTION 02 61 00 FOR REQUIREMENTS REGARDING EXCAVATION.
 - EXCAVATED SOILS WITH PCBs BELOW 50 MG/KG SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING PURSUANT TO THE CATEGORIES SHOWN. SEE SECTION 2.4 OF IRM #4 WORK PLAN FOR SAMPLING REQUIREMENTS PRIOR TO STOCKPILING.
 - SOILS WITH PCBs > 50 Mg/Kg SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - SOILS WITH PCBs > 3.2 Mg/Kg FROM AT OR NEAR THE WATER TABLE SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - LAYBACK SOILS SHOWN ON SHEETS 10 TO 17 SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING BY THE ENGINEER FOR POTENTIAL REUSE PER PER-10 SECTION 5.4(e).
 - SIDEWALL AND BOTTOM SAMPLE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BASED ON FIELD OBSERVATIONS AND CHANGES TO THE EXCAVATION PLAN.
 - APPROVAL OF ENGINEER AND NYSDEC REQUIRED BEFORE BACKFILLING AREAS WHERE CONFIRMATION SIDEWALL AND BOTTOM SAMPLES ARE COLLECTED.

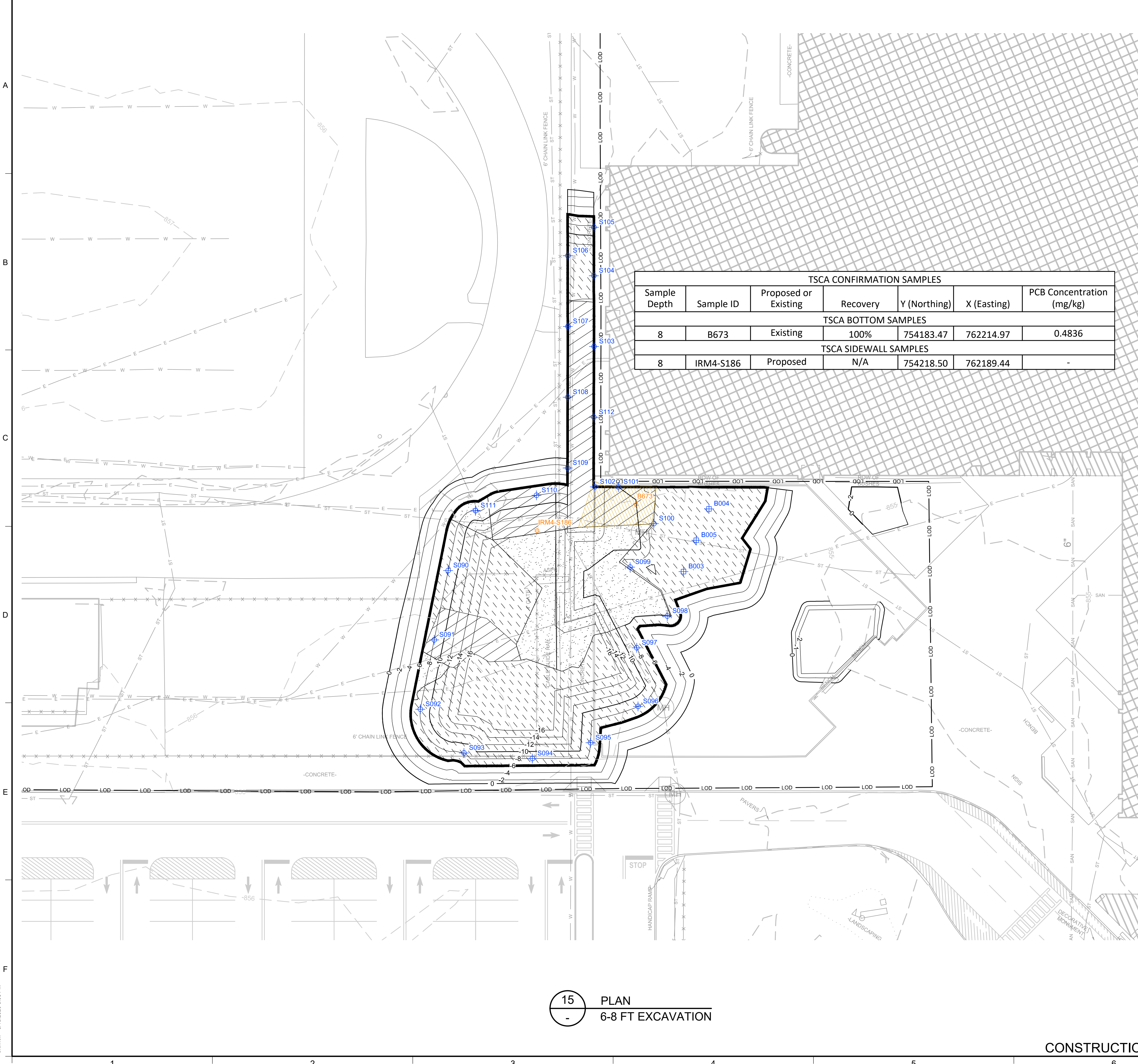


1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
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PROJECT:		INTERIM REMEDIATION MEASURE #4		
SITE:		FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK		
DESIGN BY:		AK	DATE:	APRIL 2020
DRAWN BY:		AD	PROJECT NO.:	MN0832I
CHECKED BY:		TBR	FILE:	MN0832I-10-17
REVIEWED BY:		PLB	DRAWING NO.:	
APPROVED BY:		AK	12	OF 25

14 PLAN
4-6 FT EXCAVATION

CONSTRUCTION DRAWING

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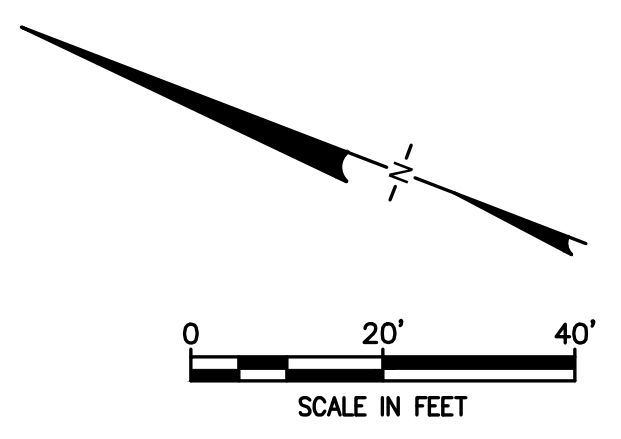


TSCA CONFIRMATION SAMPLES						
Sample Depth	Sample ID	Proposed or Existing	Recovery	Y (Northing)	X (Easting)	PCB Concentration (mg/kg)
TSCA BOTTOM SAMPLES						
8	B673	Existing	100%	754183.47	762214.97	0.4836
TSCA SIDEWALL SAMPLES						
8	IRM4-S186	Proposed	N/A	754218.50	762189.44	-

LEGEND

- PRE-DELINEATION CONFIRMATION SAMPLE
- 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
- LIMIT OF DISTURBANCE
- BURIED FIBER OPTIC CABLE
- TREE
- TSCA OVERLAY AREA
- BOTTOM AREA
- SIDEWALL SAMPLE
- BOTTOM SAMPLE
- NON RCRA/TSCA FOR OFF-SITE DISPOSAL (PCBS <=10 AND < 50 MG/KG)
- TSCA SOILS FOR OFF-SITE DISPOSAL (PCBS >= 50 MG/KG)
- LAYBACK SOIL TO BE REUSED AS BACKFILL PENDING TESTING
- TSCA BOTTOMS
- PROPOSED TSCA SIDEWALL OR BOTTOM SAMPLE
- EXISTING TSCA BOTTOM SAMPLE

- NOTES:
- SEE SHEET 3 FOR GENERAL NOTES.
 - SEE SHEET 6 FOR GRADING PLAN.
 - SEE SECTION 02 61 00 FOR REQUIREMENTS REGARDING EXCAVATION.
 - EXCAVATED SOILS WITH PCBs BELOW 50 MG/KG SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING PURSUANT TO THE CATEGORIES SHOWN. SEE SECTION 2.4 OF IRM #4 WORK PLAN FOR SAMPLING REQUIREMENTS PRIOR TO STOCKPILING.
 - SOILS WITH PCBs > 50 Mg/Kg SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - SOILS WITH PCBs > 3.2 Mg/Kg FROM AT OR NEAR THE WATER TABLE SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - LAYBACK SOILS SHOWN ON SHEETS 10 TO 17 SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING BY THE ENGINEER FOR POTENTIAL REUSE PER DER-10 SECTION 5.4(e).
 - SIDEWALL AND BOTTOM SAMPLE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BASED ON FIELD OBSERVATIONS AND CHANGES TO THE EXCAVATION PLAN.
 - APPROVAL OF ENGINEER AND NYSDEC REQUIRED BEFORE BACKFILLING AREAS WHERE CONFIRMATION SIDEWALL AND BOTTOM SAMPLES ARE COLLECTED.

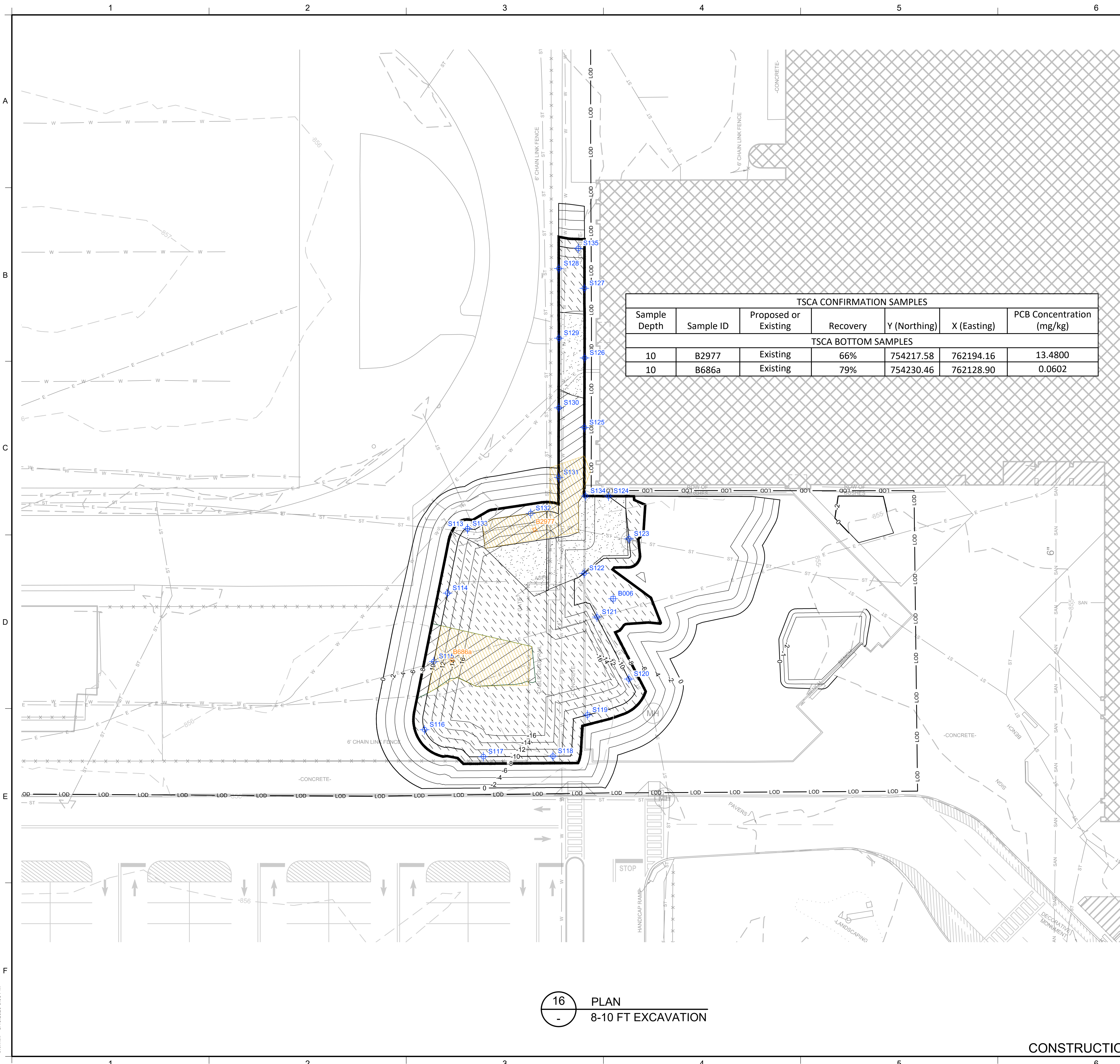


15 PLAN
6-8 FT EXCAVATION

CONSTRUCTION DRAWING

1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
TITLE: 6-8 FT EXCAVATION				
PROJECT: INTERIM REMEDIATION MEASURE #4				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
DESIGN BY: AK		DATE: APRIL 2020		
DRAWN BY: AD		PROJECT NO.: MN0832I		
CHECKED BY: TBR		FILE: MN0832I-10-17		
REVIEWED BY: PLB		DRAWING NO.: 13 OF 25		
APPROVED BY: AK				

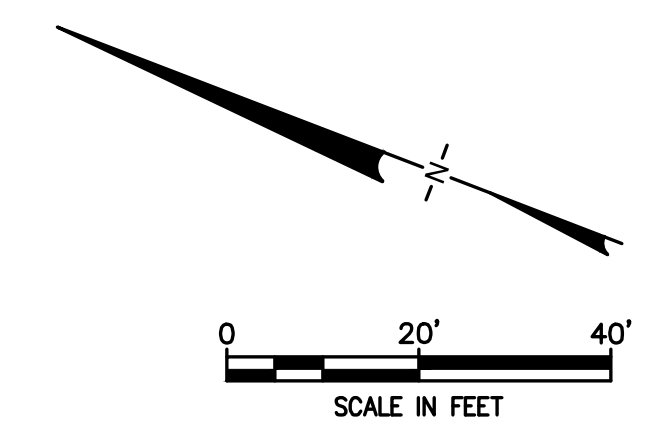
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LEGEND

- PRE-DELINEATION CONFIRMATION SAMPLE
- 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
- LIMIT OF DISTURBANCE
- BURIED FIBER OPTIC CABLE
- TREE
- TSCA OVERLAY AREA
- BOTTOM AREA
- SIDEWALL SAMPLE
- BOTTOM SAMPLE
- NON RCRA/TSCA FOR OFF-SITE DISPOSAL (PCBS >= 10 AND < 50 MG/KG)
- TSCA SOILS FOR OFF-SITE DISPOSAL (PCBS >= 50 MG/KG)
- LAYBACK SOIL TO BE REUSED AS BACKFILL PENDING TESTING
- TSCA BOTTOMS
- EXISTING TSCA BOTTOM SAMPLE

- NOTES:
- SEE SHEET 3 FOR GENERAL NOTES.
 - SEE SHEET 6 FOR GRADING PLAN.
 - SEE SECTION 02 61 00 FOR REQUIREMENTS REGARDING EXCAVATION.
 - EXCAVATED SOILS WITH PCBs BELOW 50 MG/KG SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING PURSUANT TO THE CATEGORIES SHOWN. SEE SECTION 2.4 OF IRM #4 WORK PLAN FOR SAMPLING REQUIREMENTS PRIOR TO STOCKPILING.
 - SOILS WITH PCBs > 50 Mg/Kg SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - SOILS WITH PCBs > 3.2 Mg/Kg FROM AT OR NEAR THE WATER TABLE SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - LAYBACK SOILS SHOWN ON SHEETS 10 TO 17 SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING BY THE ENGINEER FOR POTENTIAL REUSE PER DER-10 SECTION 5.4(e).
 - SIDEWALL AND BOTTOM SAMPLE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BASED ON FIELD OBSERVATIONS AND CHANGES TO THE EXCAVATION PLAN.
 - APPROVAL OF ENGINEER AND NYSDEC REQUIRED BEFORE BACKFILLING AREAS WHERE CONFIRMATION SIDEWALL AND BOTTOM SAMPLES ARE COLLECTED.

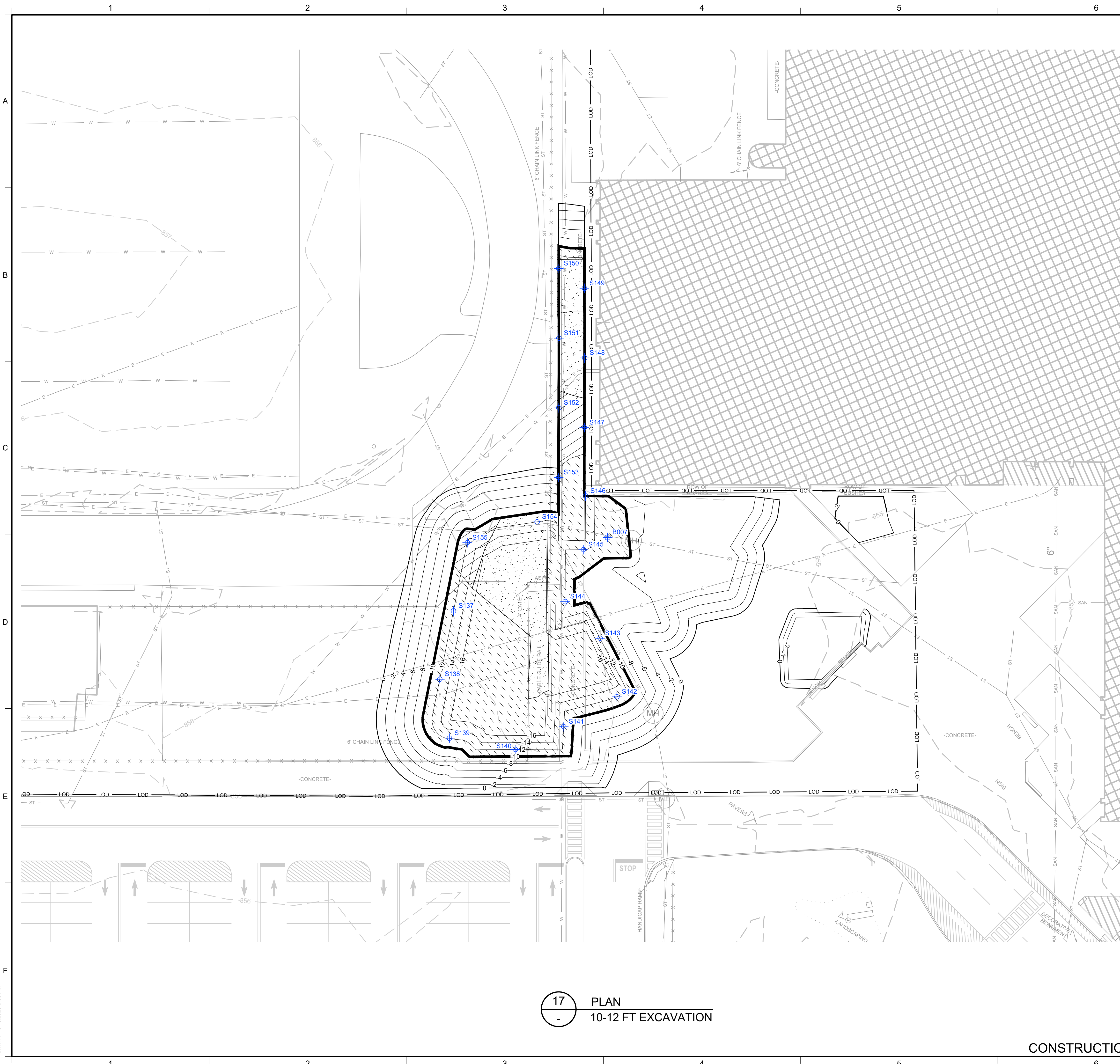


1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
 				
TITLE: 8-10 FT EXCAVATION				
PROJECT: INTERIM REMEDIATION MEASURE #4				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
 SIGNATURE 5/19/2020 DATE				
DESIGN BY:	AK	DATE:	APRIL 2020	
DRAWN BY:	AD	PROJECT NO.:	MN0832I	
CHECKED BY:	TBR	FILE:	MN0832I-10-17	
REVIEWED BY:	PLB	DRAWING NO.:	14 OF 25	
APPROVED BY:	AK			

16 PLAN
8-10 FT EXCAVATION

CONSTRUCTION DRAWING

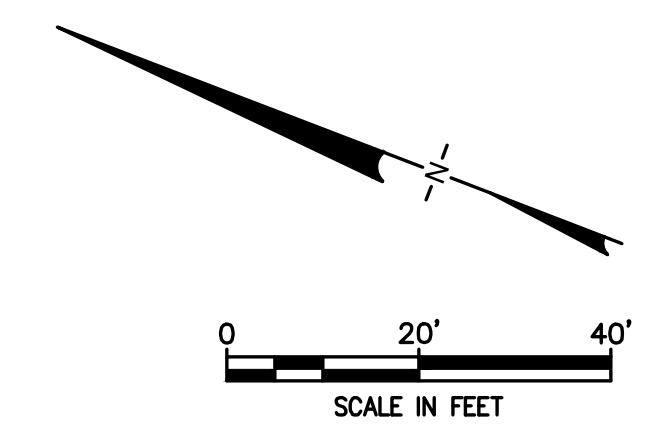
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LEGEND

	PRE-DELINEATION CONFIRMATION SAMPLE		NON RCRA/TSCA FOR OFF-SITE DISPOSAL (PCBS >=10 AND < 50 MG/KG)
	MANHOLE		TSCA SOILS FOR OFF-SITE DISPOSAL (PCBS >= 50 MG/KG)
	CATCH BASIN		LAYBACK SOIL TO BE REUSED AS BACKFILL PENDING TESTING
	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		
	LIMIT OF DISTURBANCE		
	BURIED FIBER OPTIC CABLE		
	TREE		
	TSCA OVERLAY AREA		
	BOTTOM AREA		
	SIDEWALL SAMPLE		
	BOTTOM SAMPLE		

- NOTES:**
- SEE SHEET 3 FOR GENERAL NOTES.
 - SEE SHEET 6 FOR GRADING PLAN.
 - SEE SECTION 02 61 00 FOR REQUIREMENTS REGARDING EXCAVATION.
 - EXCAVATED SOILS WITH PCBs BELOW 50 MG/KG SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING PURSUANT TO THE CATEGORIES SHOWN. SEE SECTION 2.4 OF IRM #4 WORK PLAN FOR SAMPLING REQUIREMENTS PRIOR TO STOCKPILING.
 - SOILS WITH PCBs > 50 Mg/Kg SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - SOILS WITH PCBs > 3.2 Mg/Kg FROM AT OR NEAR THE WATER TABLE SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - LAYBACK SOILS SHOWN ON SHEETS 10 TO 17 SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING BY THE ENGINEER FOR POTENTIAL REUSE PER DER-10 SECTION 5.4(e).
 - SIDEWALL AND BOTTOM SAMPLE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BASED ON FIELD OBSERVATIONS AND CHANGES TO THE EXCAVATION PLAN.
 - APPROVAL OF ENGINEER AND NYSDEC REQUIRED BEFORE BACKFILLING AREAS WHERE CONFIRMATION SIDEWALL AND BOTTOM SAMPLES ARE COLLECTED.

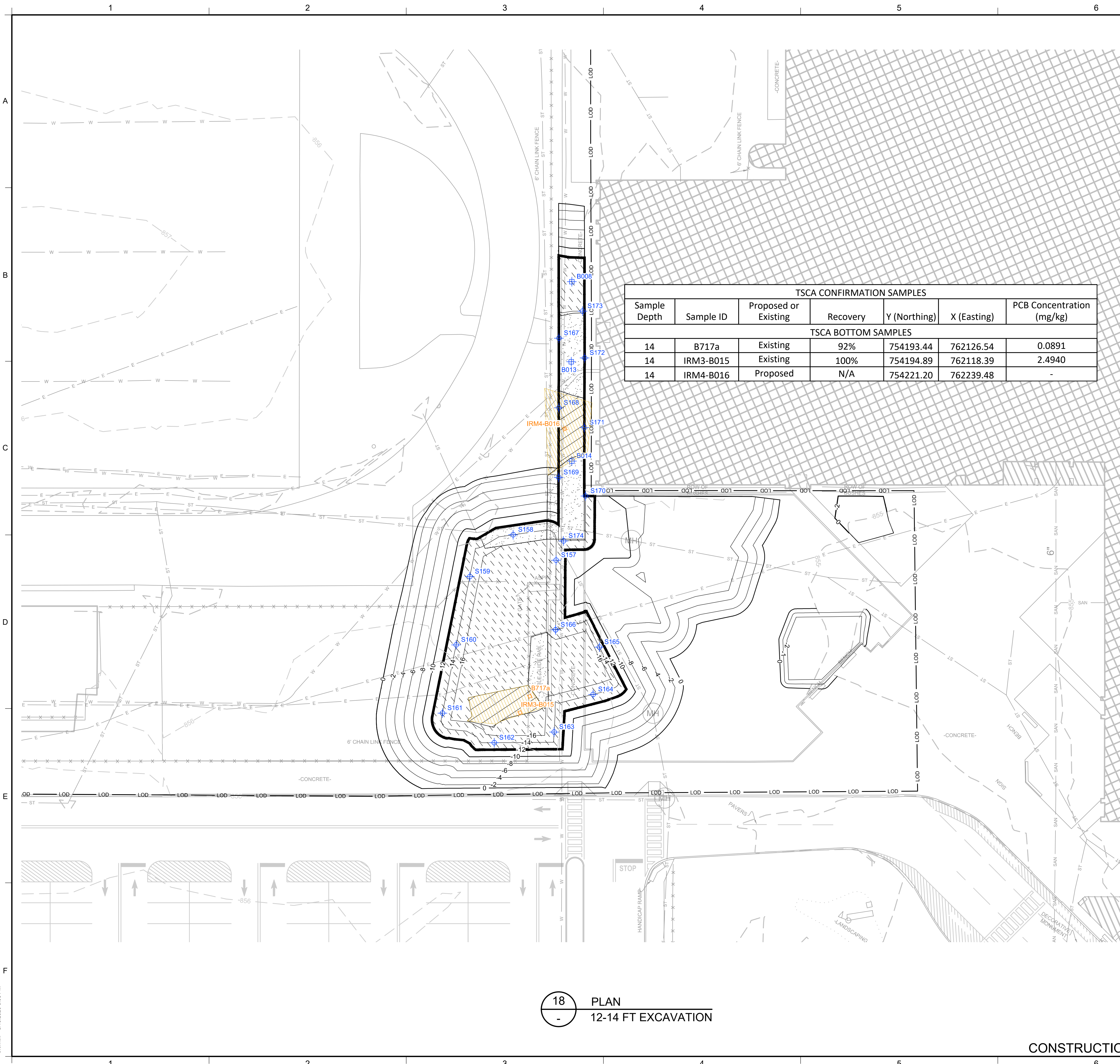


1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
TITLE: 10-12 FT EXCAVATION				
PROJECT: INTERIM REMEDIATION MEASURE #4				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
DESIGN BY: AK		DATE: APRIL 2020		
DRAWN BY: AD		PROJECT NO.: MN0832I		
CHECKED BY: TBR		FILE: MN0832I-10-17		
REVIEWED BY: PLB		DRAWING NO.: 15 OF 25		
APPROVED BY: AK				
 SIGNATURE 5/19/2020 DATE				

17 PLAN
10-12 FT EXCAVATION

CONSTRUCTION DRAWING

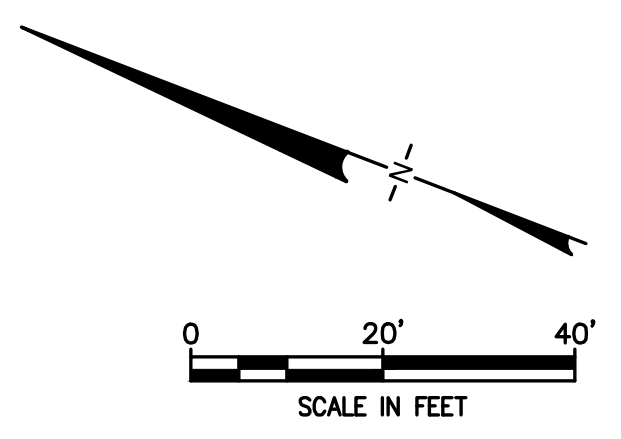
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TSCA CONFIRMATION SAMPLES						
Sample Depth	Sample ID	Proposed or Existing	Recovery	Y (Northing)	X (Easting)	PCB Concentration (mg/kg)
14	B717a	Existing	92%	754193.44	762126.54	0.0891
14	IRM3-B015	Existing	100%	754194.89	762118.39	2.4940
14	IRM4-B016	Proposed	N/A	754221.20	762239.48	-

LEGEND		
	PRE-DELINEATION CONFIRMATION SAMPLE	
	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	
	LIMIT OF DISTURBANCE	
	BURIED FIBER OPTIC CABLE	
	TREE	
	TSCA OVERLAY AREA	
	BOTTOM AREA	
	SIDEWALL SAMPLE	
	BOTTOM SAMPLE	

- NOTES:
- SEE SHEET 3 FOR GENERAL NOTES.
 - SEE SHEET 6 FOR GRADING PLAN.
 - SEE SECTION 02 61 00 FOR REQUIREMENTS REGARDING EXCAVATION.
 - EXCAVATED SOILS WITH PCBs BELOW 50 MG/KG SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING PURSUANT TO THE CATEGORIES SHOWN. SEE SECTION 2.4 OF IRM #4 WORK PLAN FOR SAMPLING REQUIREMENTS PRIOR TO STOCKPILING.
 - SOILS WITH PCBs \geq 50 Mg/Kg SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - SOILS WITH PCBs \geq 3.2 Mg/Kg FROM AT OR NEAR THE WATER TABLE SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - LAYBACK SOILS SHOWN ON SHEETS 10 TO 17 SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING BY THE ENGINEER FOR POTENTIAL REUSE PER DER-10 SECTION 5.4(e).
 - SIDEWALL AND BOTTOM SAMPLE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BASED ON FIELD OBSERVATIONS AND CHANGES TO THE EXCAVATION PLAN.
 - APPROVAL OF ENGINEER AND NYSDEC REQUIRED BEFORE BACKFILLING AREAS WHERE CONFIRMATION SIDEWALL AND BOTTOM SAMPLES ARE COLLECTED.

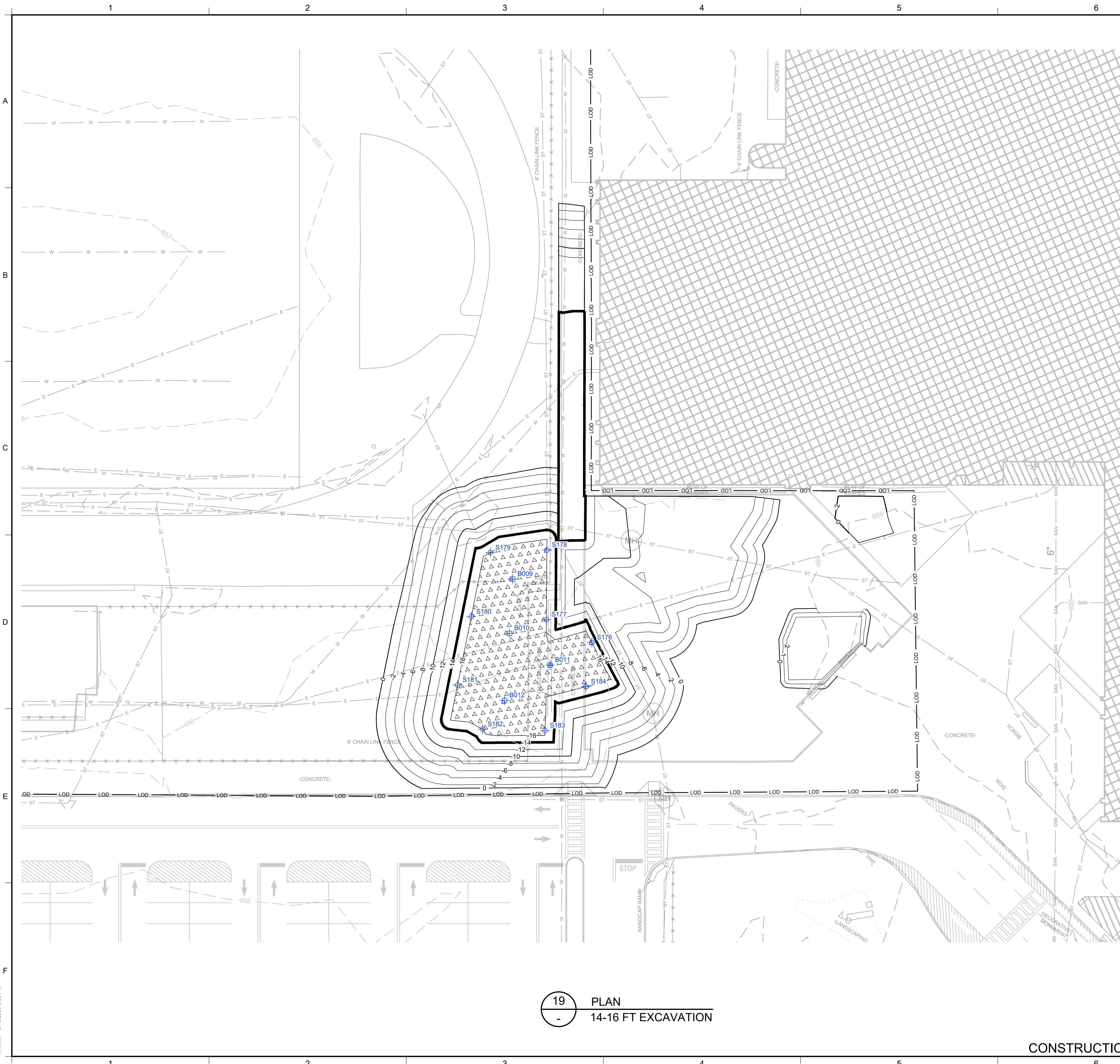


18 PLAN
12-14 FT EXCAVATION

CONSTRUCTION DRAWING

1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
TITLE:		12-14 FT EXCAVATION		
PROJECT:		INTERIM REMEDIATION MEASURE #4		
SITE:		FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK		
DESIGN BY: AK		DATE: APRIL 2020		
DRAWN BY: AD		PROJECT NO.: MN0832I		
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REVIEWED BY: PLB		DRAWING NO.:		
APPROVED BY: AK		16 OF 25		

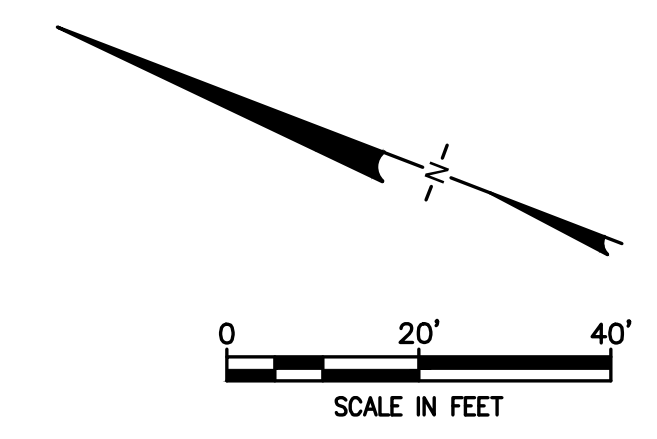
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LEGEND

	PRE-DELINEATION CONFIRMATION SAMPLE		TSCA SOILS FOR OFF-SITE DISPOSAL (PCBS NEAR WATER TABLE)
	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		
	LIMIT OF DISTURBANCE		
	BURIED FIBER OPTIC CABLE		
	TREE		
	TSCA OVERLAY AREA		
	BOTTOM AREA		
	SIDEWALL SAMPLE		
	BOTTOM SAMPLE		

- NOTES:**
- SEE SHEET 3 FOR GENERAL NOTES.
 - SEE SHEET 6 FOR GRADING PLAN.
 - SEE SECTION 02 61 00 FOR REQUIREMENTS REGARDING EXCAVATION.
 - EXCAVATED SOILS WITH PCBS BELOW 50 MG/KG SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING PURSUANT TO THE CATEGORIES SHOWN. SEE SECTION 2.4 OF IRM #4 WORK PLAN FOR SAMPLING REQUIREMENTS PRIOR TO STOCKPILING.
 - SOILS WITH PCBS \geq 50 MG/Kg SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - SOILS WITH PCBS \geq 3.2 MG/Kg FROM AT OR NEAR THE WATER TABLE SHALL BE BROUGHT TO A TSCA ACCUMULATION AREA FOR LOADING FOR OFF-SITE DISPOSAL. TEMPORARY TSCA TRANSIT ROAD SHALL BE PLACED OVER NON-TSCA AREAS WHEN BRINGING THESE SOILS TO THE TSCA ACCUMULATION AREA.
 - LAYBACK SOILS SHOWN ON SHEETS 10 TO 17 SHALL BE SEGREGATED AND STOCKPILED AT THE MATERIAL STAGING AREA FOR SAMPLING BY THE ENGINEER FOR POTENTIAL REUSE PER PER-10 SECTION 5.4(e).
 - SIDEWALL AND BOTTOM SAMPLE LOCATIONS ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BASED ON FIELD OBSERVATIONS AND CHANGES TO THE EXCAVATION PLAN.
 - APPROVAL OF ENGINEER AND NYSDEC REQUIRED BEFORE BACKFILLING AREAS WHERE CONFIRMATION SIDEWALL AND BOTTOM SAMPLES ARE COLLECTED.

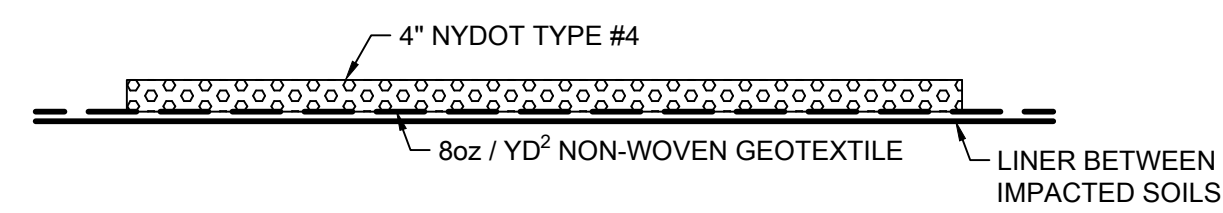


19 PLAN
14-16 FT EXCAVATION

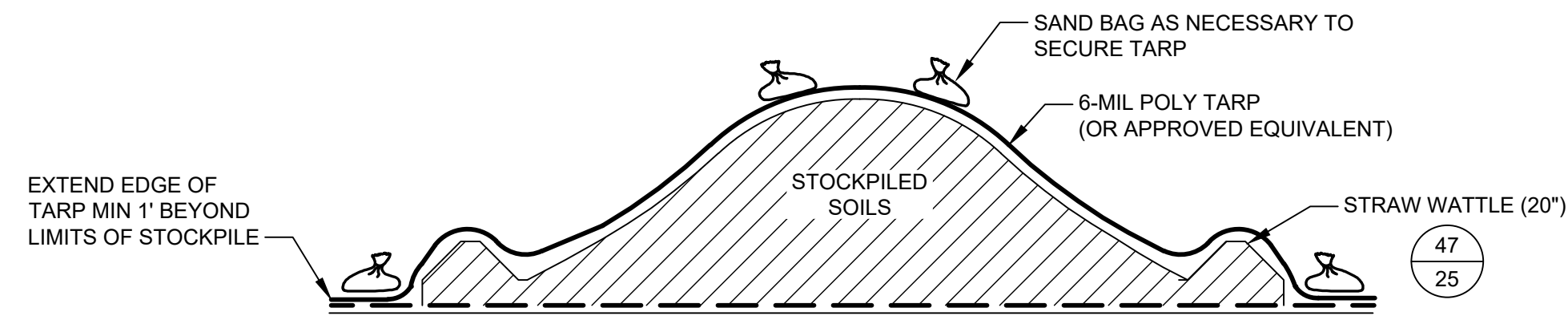
CONSTRUCTION DRAWING

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REV	DATE	DESCRIPTION	DRN	APP
		 <i>an affiliate of Geosyntec Consultants</i>		
TITLE: 14-16 FT EXCAVATION				
PROJECT: INTERIM REMEDIATION MEASURE #4				
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
 SIGNATURE 5/19/2020 DATE				
DESIGN BY:	AK	DATE:	APRIL 2020	
DRAWN BY:	AD	PROJECT NO.:	MN0832I	
CHECKED BY:	TBR	FILE:	MN0832I-10-17	
REVIEWED BY:	PLB	DRAWING NO.:	17 OF 25	
APPROVED BY:	AK			

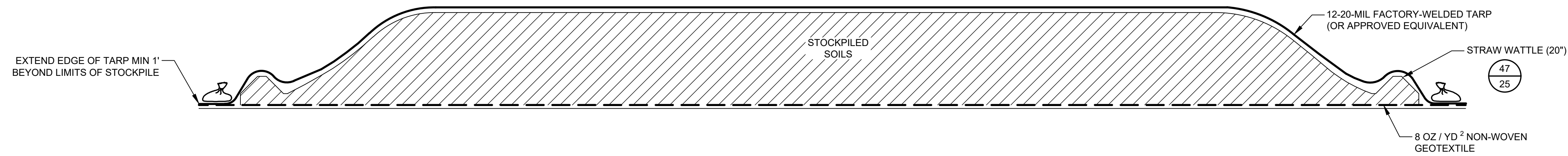
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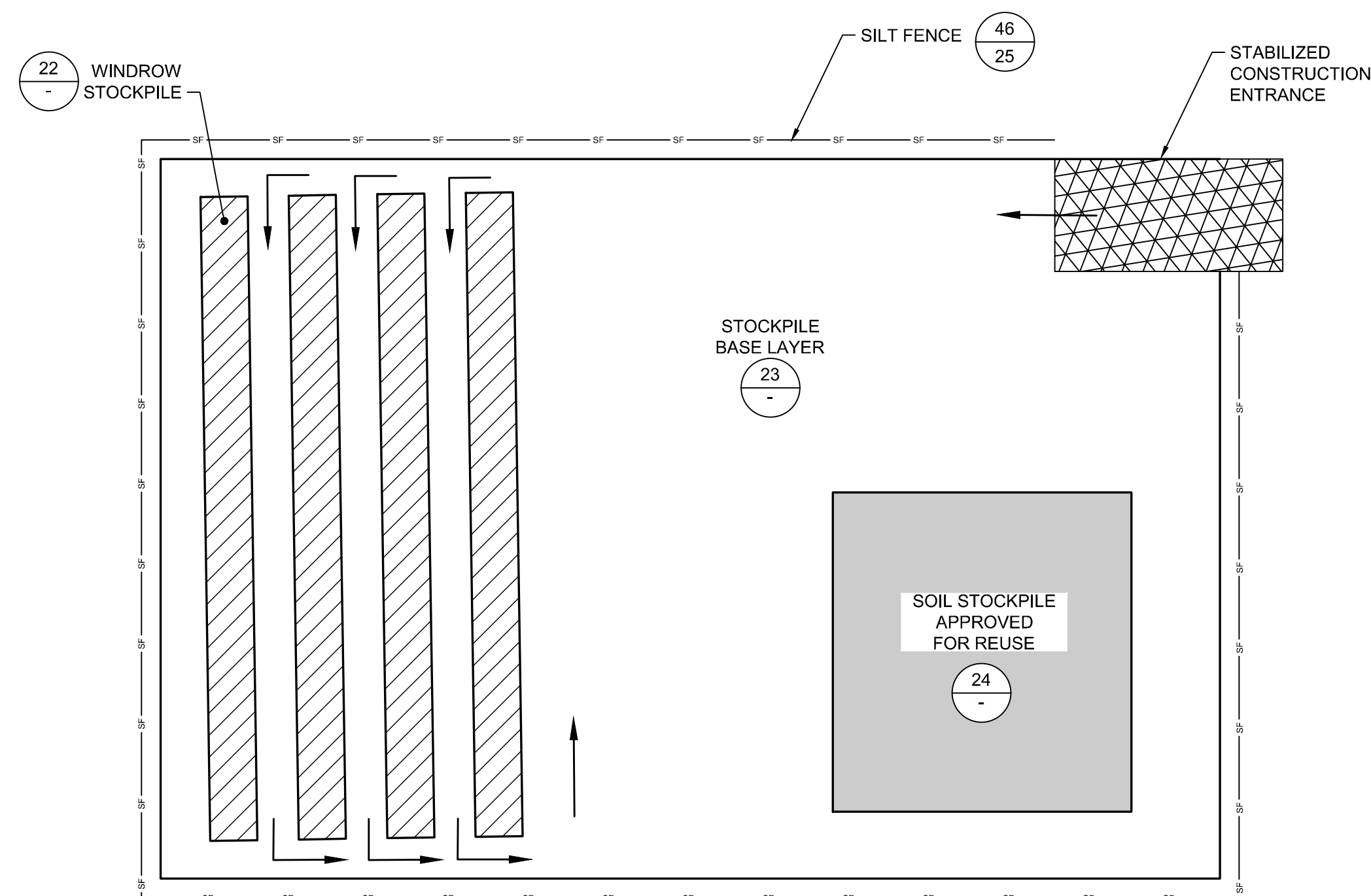
23
-
DETAIL
STOCKPILE AREA BASE LAYER
SCALE: NOT TO SCALE



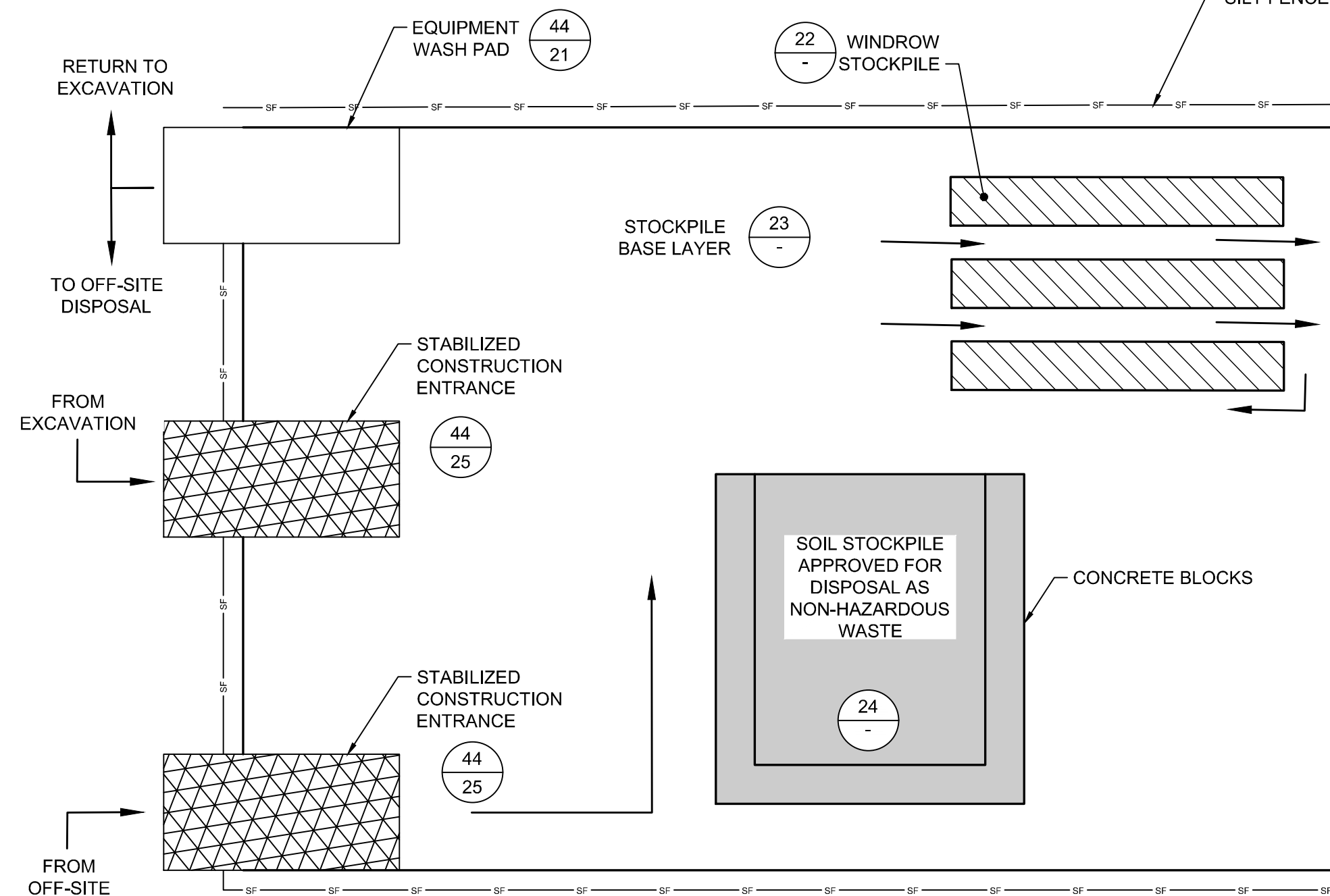
24
-
DETAIL
SOIL STOCKPILE
SCALE: NOT TO SCALE



22
-
DETAIL
WINDROW STOCKPILE
SCALE: NOT TO SCALE



20
3
DETAIL
RE-USE STOCKPILE AREA
SCALE: NOT TO SCALE



21
3
DETAIL
NON-HAZARDOUS SOIL STOCKPILE AREA
SCALE: NOT TO SCALE

NOTES

- NON-HAZARDOUS SOILS NOT APPROVED FOR OFF-SITE DISPOSAL SHALL BE STAGED IN WINDROW STOCKPILES FOR WASTE CHARACTERIZATION.
- UPON REMOVAL OF STOCKPILE AREAS, EXISTING SURFACE SOILS UNDER STOCKPILE AREAS WHICH ARE NOT DESIGNATED FOR REMOVAL DURING FUTURE REMEDIAL ACTIONS SHALL BE SAMPLED AT FREQUENCY OF ONE SAMPLER PER 3600 FT² TO DOCUMENT SOIL QUALITY.

REV	DATE	DESCRIPTION	DRN	APP
1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK

B&B Engineers & Geologists
of new york, p.c.
an affiliate of Geosyntec Consultants

TITLE: MATERIAL STAGING AREA PLAN (MSA) PLAN

PROJECT: INTERIM REMEDIATION MEASURE #4

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

Arun Kamphal

SIGNATURE

5/19/2020

DATE

DESIGN BY: AK

DRAWN BY: JWO

CHECKED BY: TBR

REVIEWED BY: PLB

APPROVED BY: AK

DATE: APRIL 2020

PROJECT NO.: MN0832I

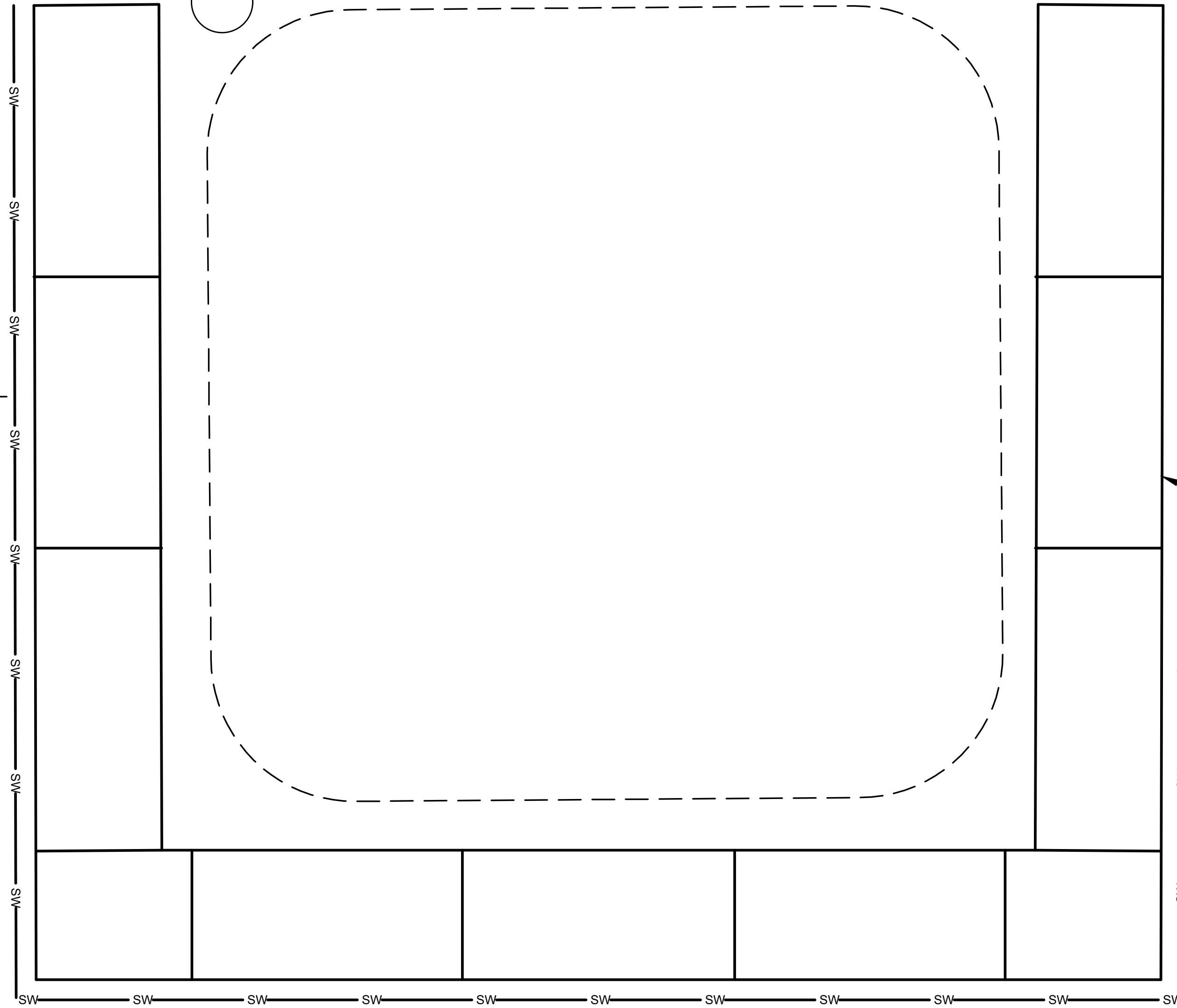
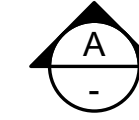
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DRAWING NO.: 18 OF 25

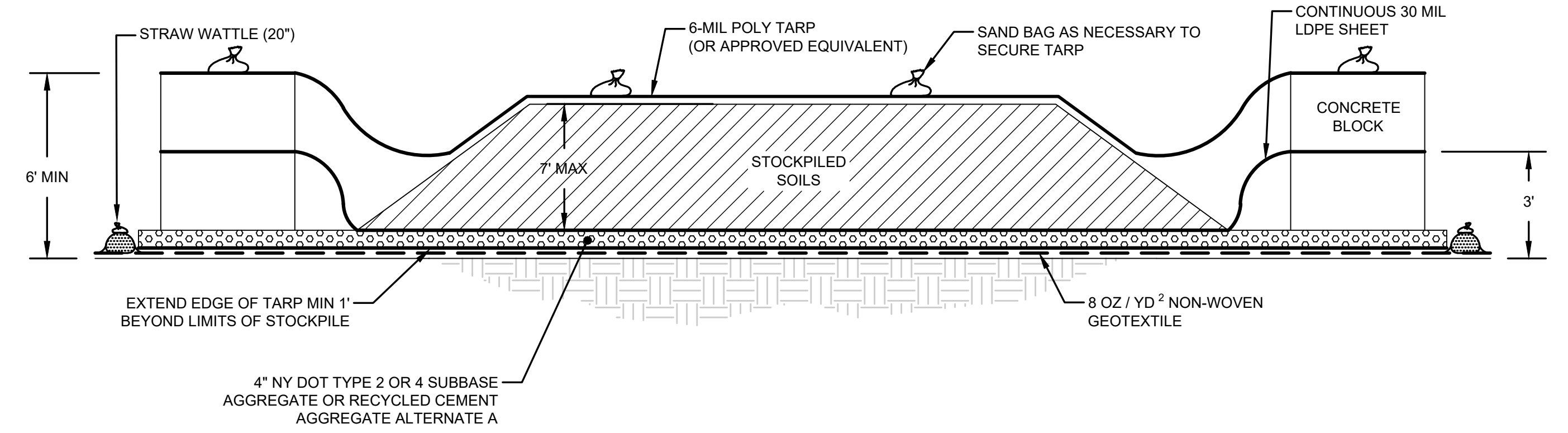
CONSTRUCTION DRAWING

28
20 SUMP PIT (NOTE 3)

TRANSPORT OF TSCA SOIL TO
TSCA ACCUMULATION AREA

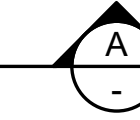


25
3 DETAIL
TSCA ACCUMULATION AREA
SCALE: NOT TO SCALE



A
SECTION
TSCA ACCUMULATION AREA
SCALE: NOT TO SCALE

47
25 STRAW WATTLE

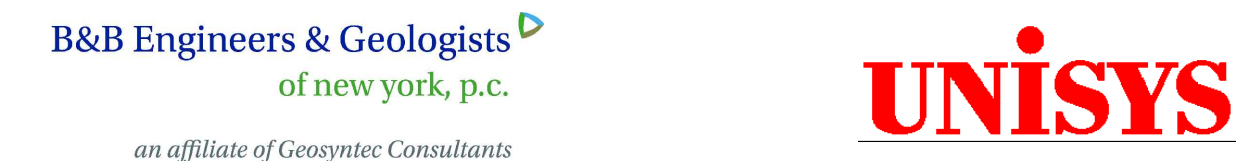


CONCRETE BLOCK

TSCA ACCUMULATION AREA NOTES:

1. THE HEIGHT OF THE SOIL STOCKPILE SHALL NOT EXCEED THE HEIGHT OF THE SURROUNDING CONCRETE BLOCKS. ADDITIONAL CONCRETE BLOCKS MAY BE PLACED TO INCREASE THE HEIGHT WITH THE APPROVAL OF THE ENGINEER AND NYSDEC.
2. THE AREA WILL BE CONSTRUCTED WITH AN IMPERMEABLE LINER EXTENDING OVER THE TOP OF THE LOWEST CONCRETE BLOCK. RUNOFF AND LEACHATE IN THIS AREA WILL BE COLLECTED FOR OFF-SITE DISPOSAL. AT THE END OF EACH WORK DAY AND DURING HEAVY RAIN EVENTS, CONTRACTOR SHALL COMPLETELY COVER STOCKPILED SOILS WITH A TARP THAT EXTENDS OVER THE HIGHEST CONCRETE BLOCK AND IS SECURED WITH SAND BAGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PCB-IMPACTED MATERIALS DO NOT MIGRATE FROM STAGING AND STOCKPILE LOCATIONS.
3. ALL STORMWATER RUNOFF SHALL BE CAPTURED WITHIN THE TSCA ACCUMULATION AREA AND NOT ALLOWED TO RUNOFF OR INFILTRATE.
4. 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.
5. ANY WATER COLLECTED WITHIN THE SUMP SHALL BE SEGREGATED, CHARACTERIZED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL STATE AND FEDERAL REGULATIONS.
6. UPON REMOVAL OF TSCA ACCUMULATION AND LOADING AREAS, EXISTING SHALLOW SOILS SHALL BE SAMPLED AT FREQUENCY OF ONE SAMPLER PER 3600 FT2 TO DOCUMENT SOIL QUALITY.

REV	DATE	DESCRIPTION	DRN	APP
1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK



TITLE: TSCA ACCUMULATION AREA PLAN
PROJECT: INTERIM REMEDIATION MEASURE #4
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION
ELMIRA, NEW YORK

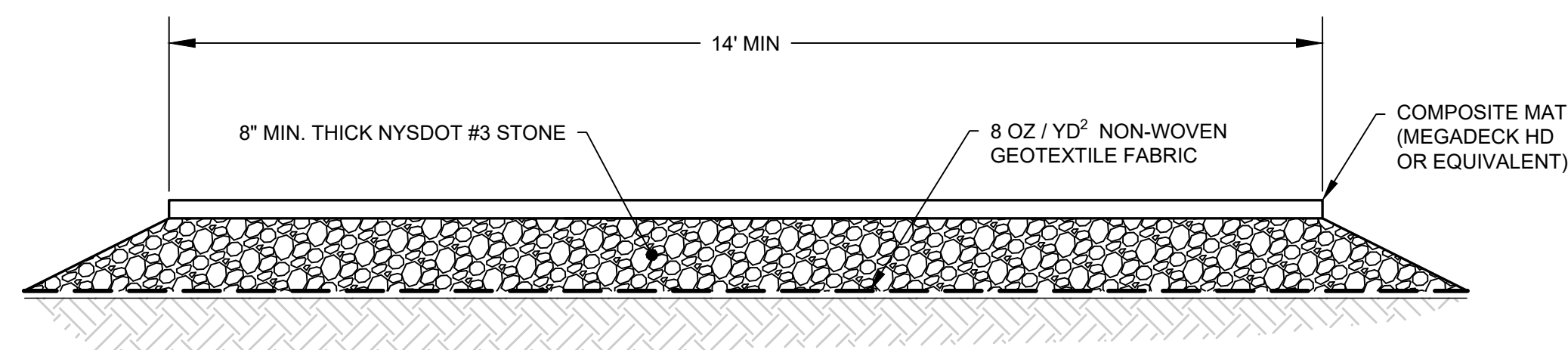
DESIGN BY: AK DATE: APRIL 2020
DRAWN BY: AD PROJECT NO.: MN0832I
CHECKED BY: TBR FILE: MN0832I-19
REVIEWED BY: PLB DRAWING NO.:
APPROVED BY: AK 19 OF 25

Ben Kozicki
SIGNATURE

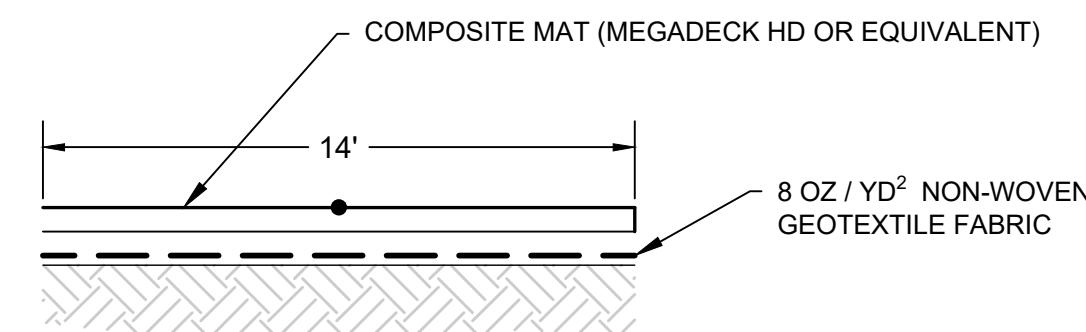


5/19/2020
DATE

CONSTRUCTION DRAWING

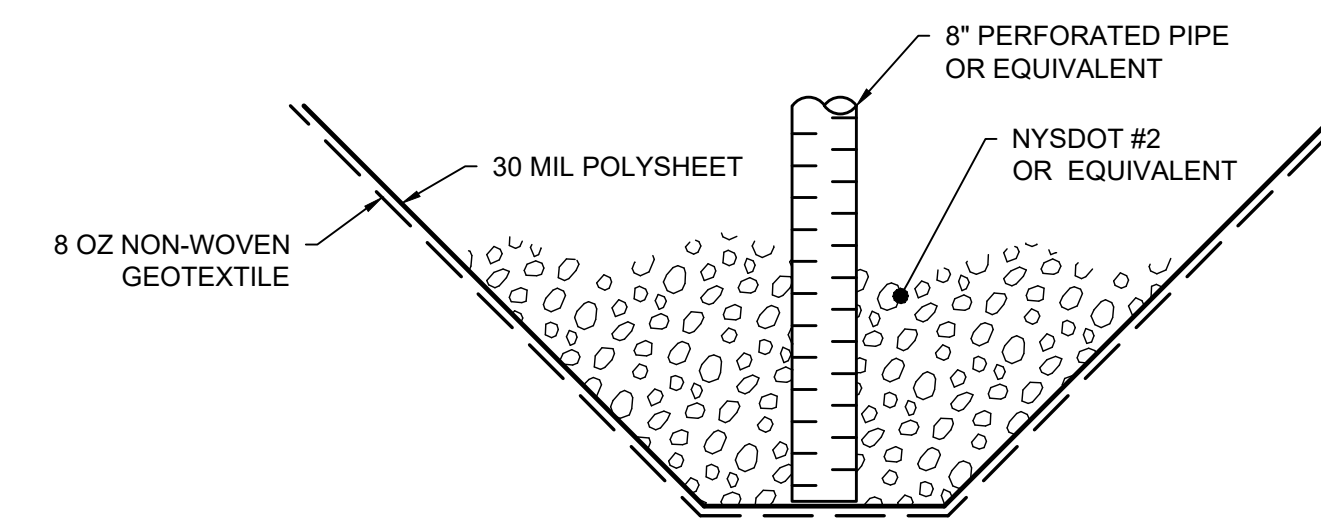


26A
3 DETAIL
TEMPORARY HAUL ROAD
SCALE: NOT TO SCALE

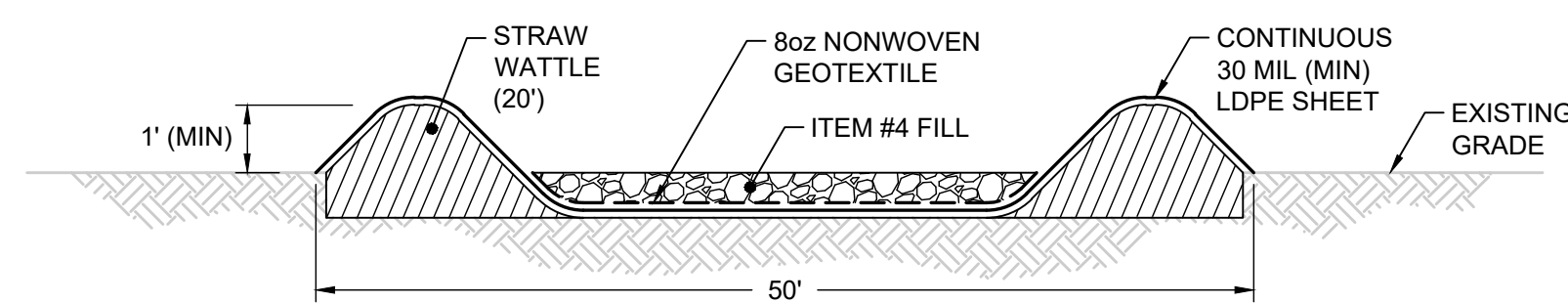


NOTE:
1. COMPOSITE MATS SHALL BE USED AS NECESSARY WITHIN THE EXCAVATION BASED ON FIELD CONDITIONS.
2. COMPOSITE MATS ARE REQUIRED FOR HAUL ROADS AND TSCA TRUCK LOOP.

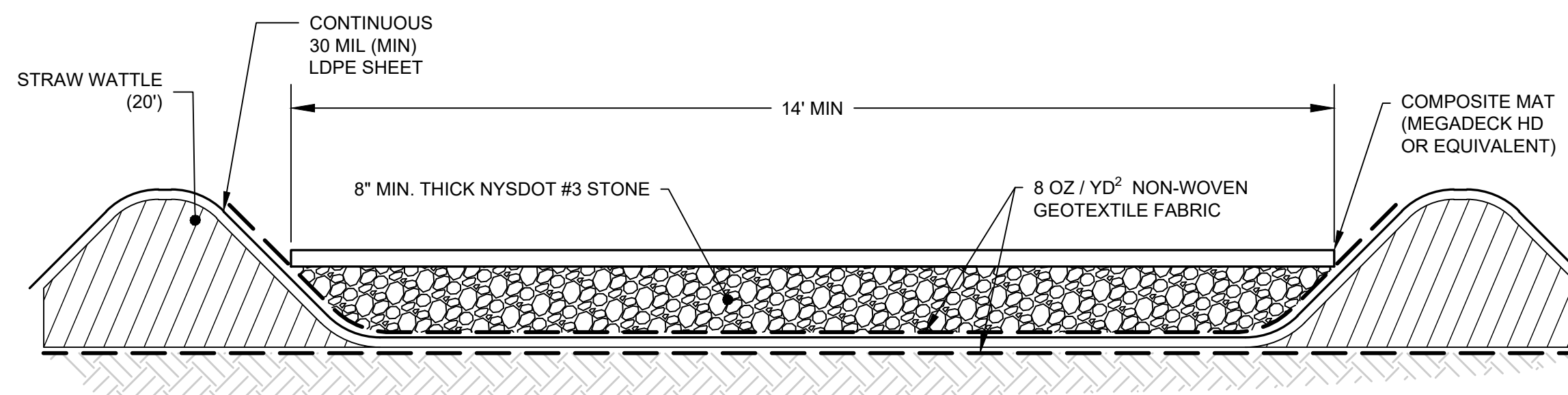
27
3 DETAIL
TEMPORARY TSCA TRANSIT ROAD
SCALE: NOT TO SCALE



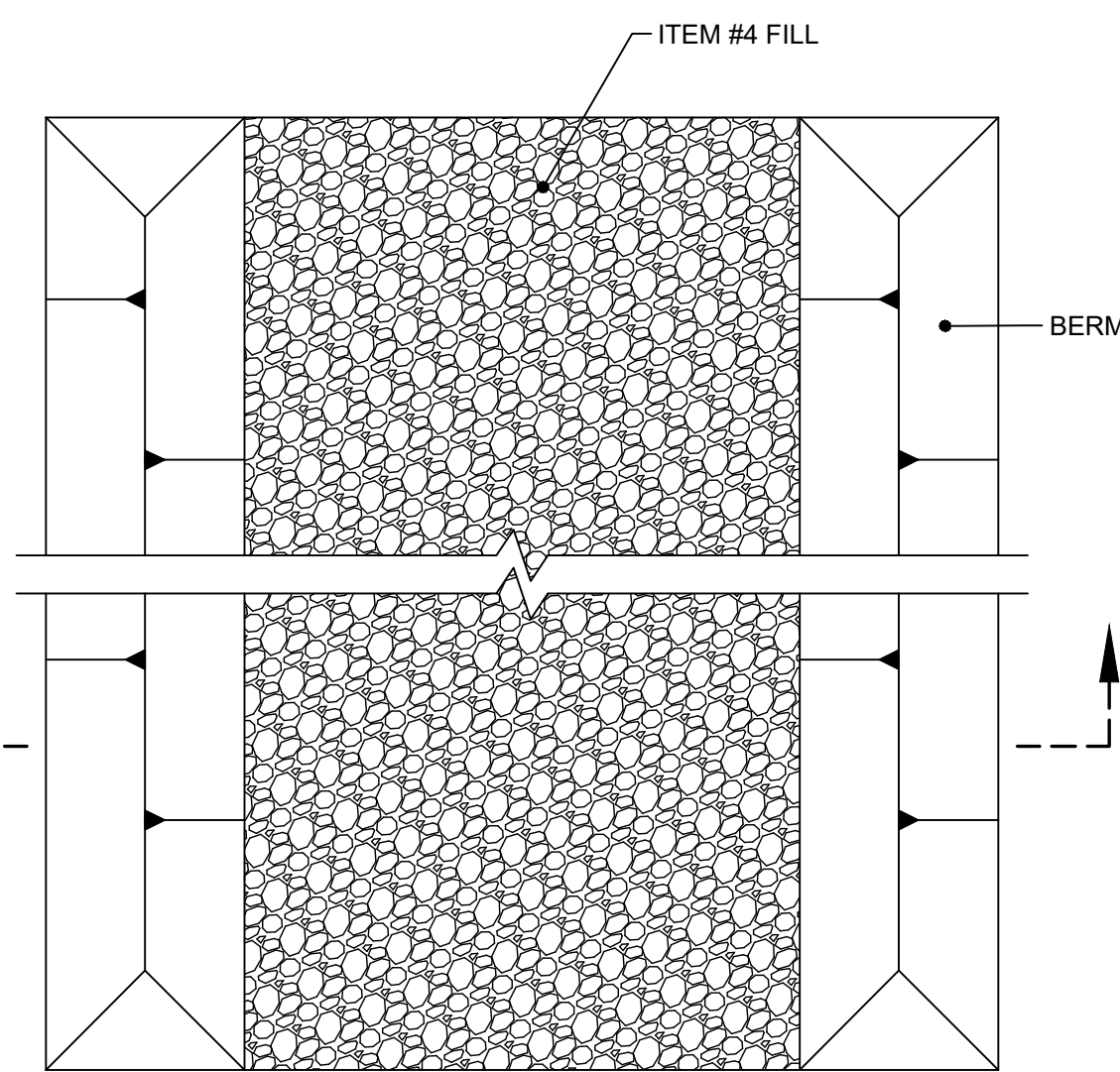
28
19 DETAIL
SUMP
SCALE: NOT TO SCALE



SECTION



26B
3 DETAIL
TEMPORARY TSCA HAUL ROAD
SCALE: NOT TO SCALE
XREF: MN08321-X064

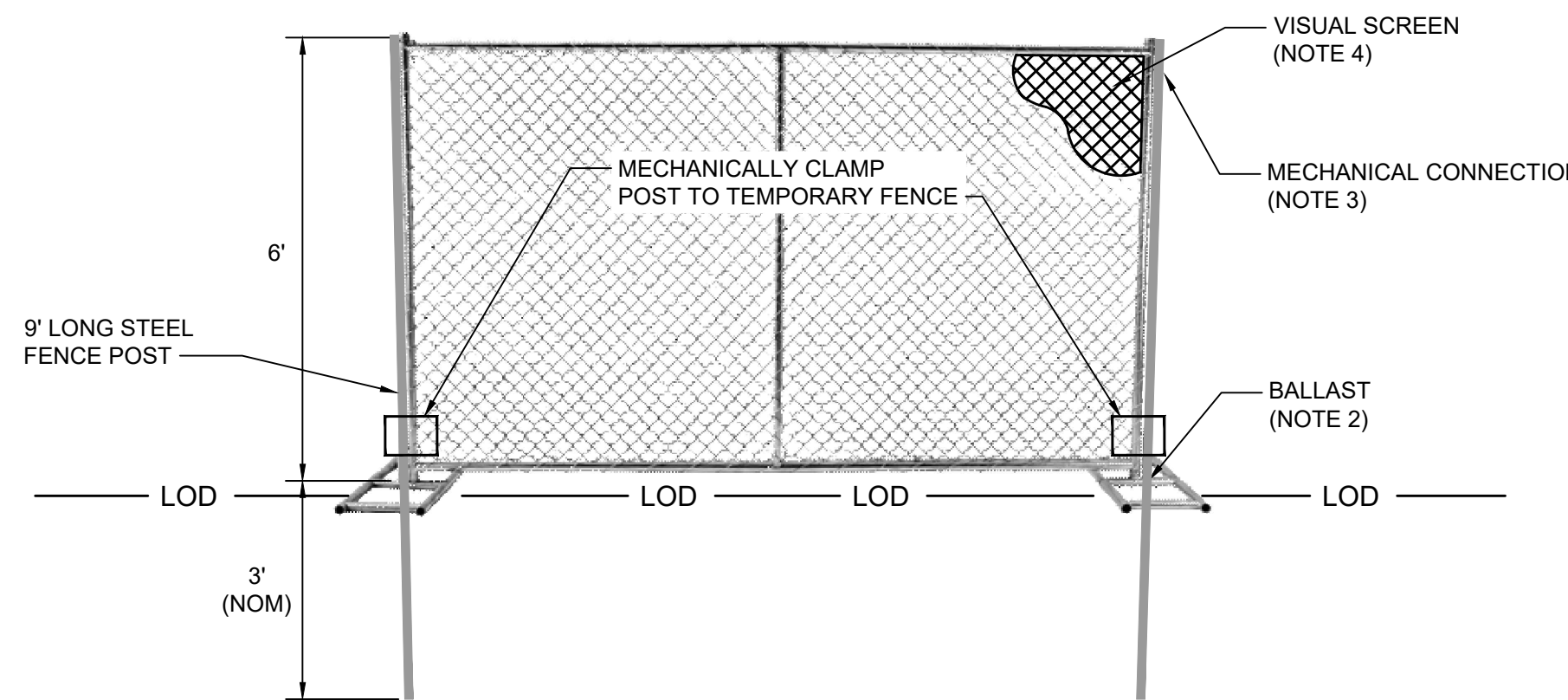


PLAN

TSCA LOADING AREA NOTES:

- SEE DRAWING 3 FOR GENERAL NOTES.
- CONTRACTOR SHALL PLACE SUMP (SEE DETAIL 25) AT LOWEST POINT OF TSCA LOADING AREA. SUMP LOCATION SHALL BE APPROVED BY ENGINEER. SEE DETAIL 28 FOR SUMP CONSTRUCTION.
- TSCA LOADING AREA SHALL BE COVERED USING CONTINUOUS 6-MIL POLY SHEETING AT THE END OF EACH DAY AND ON DAYS WHEN NOT IN USE.
- TSCA LOADING AREA SHALL BE CONSTRUCTED WITH AN IMPERMEABLE MEMBRANE EXTENDING BETWEEN BERMS. RUNOFF AND LEACHATE IN THIS AREA WILL BE COLLECTED FOR OFF-SITE DISPOSAL.

29
3 DETAIL
TSCA LOADING AREA
SCALE: NOT TO SCALE

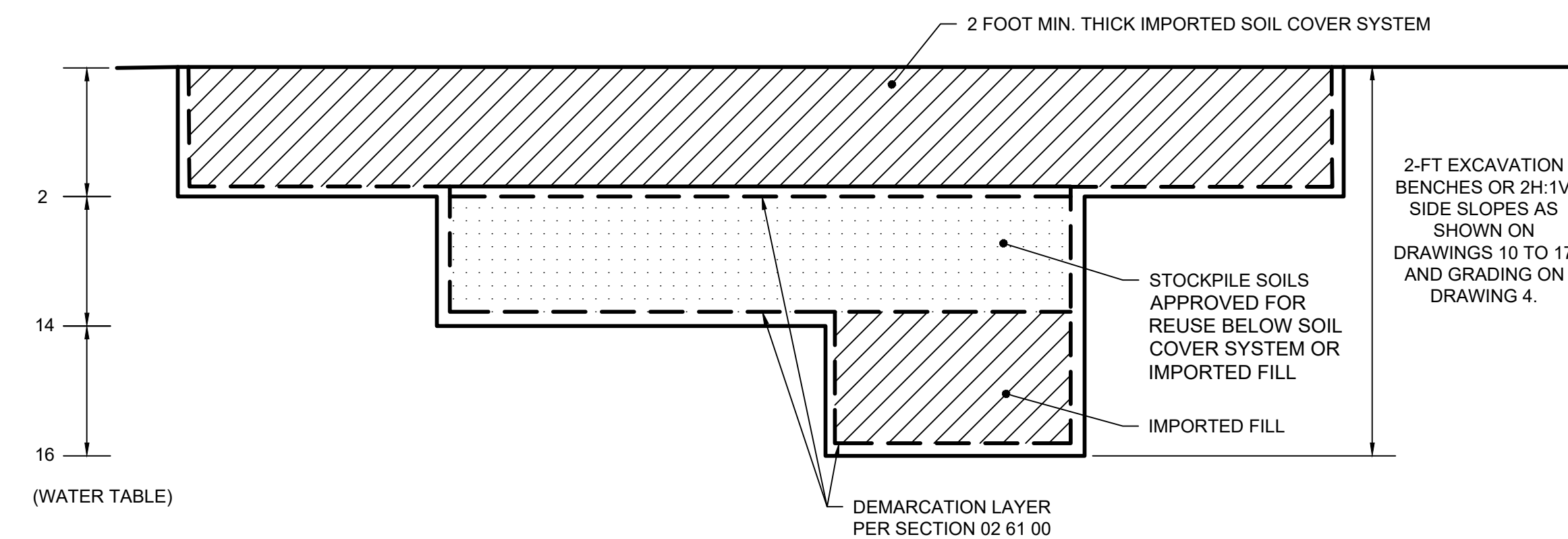


TEMPORARY FENCE ANCHORING

30
3 DETAIL
TEMPORARY FENCE
SCALE: NOT TO SCALE
XREF: MN08321-X050 (TEMP FENCE)

NOTES:

- 6-FT TALL, PORTABLE CHAIN-LINK FENCE PANELS, SET ON THE EXISTING GROUND SURFACE, COINCIDENT WITH THE LIMIT OF CONSTRUCTION DISTURBANCE.
- TEMPORARY BALLAST SHALL INCLUDE SAND BAGS.
- FLEXIBLE, MECHANICAL CONNECTION, BETWEEN FENCE PANELS.
- FULL-COVERAGE VISUAL SCREENING OVER EACH ENTIRE FENCE PANEL.
- TEMPORARY FENCE ANCHORING SHALL BE INSTALLED AS NEEDED FOR ADDITIONAL SUPPORT (E.G., EVERY SECOND OR THIRD FENCE PANEL).



31
4 DETAIL
EXCAVATION BACKFILL
SCALE: NOT TO SCALE

REV	DATE	DESCRIPTION	DRN	APP
1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK

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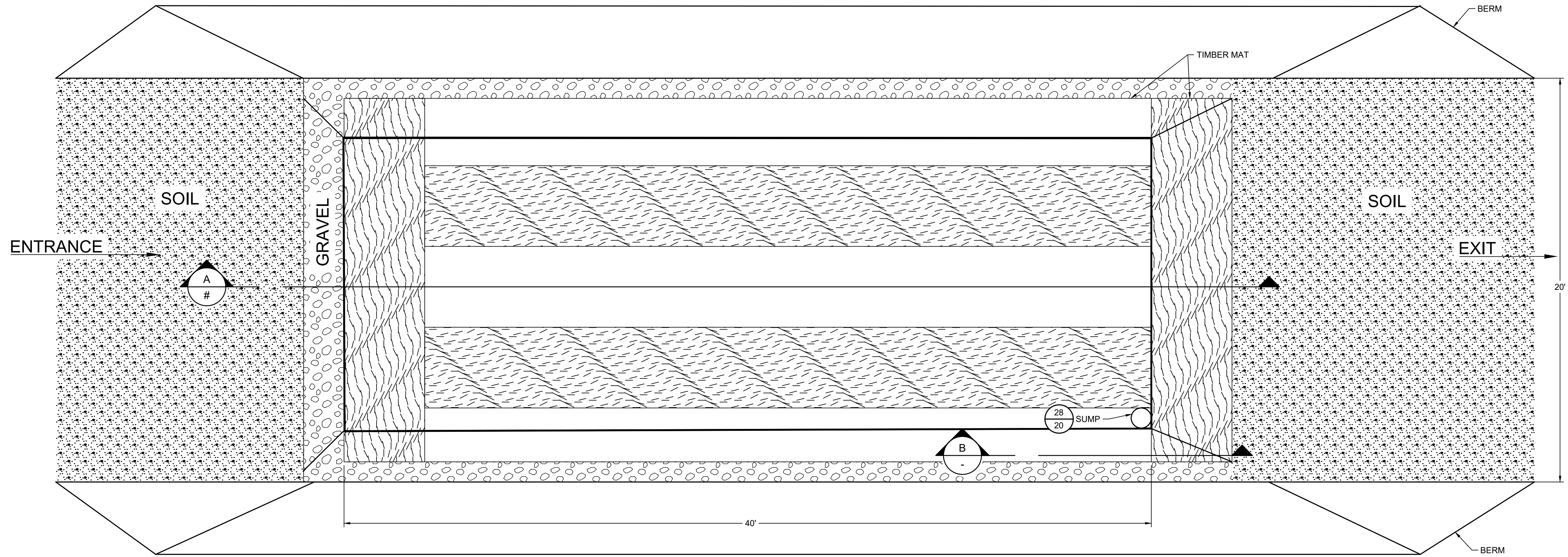
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PROJECT: INTERIM REMEDIATION MEASURE #4

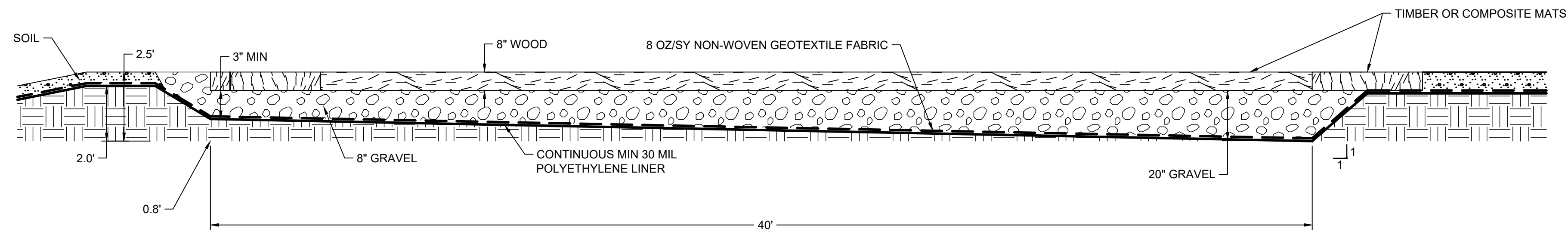
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION
ELMIRA, NEW YORK

DESIGN BY: AK	DATE: APRIL 2020
DRAWN BY: JWO	PROJECT NO.: MN08321
CHECKED BY: TBR	FILE: MN08321-20
REVIEWED BY: PLB	DRAWING NO.: 20 OF 25
APPROVED BY: AK	

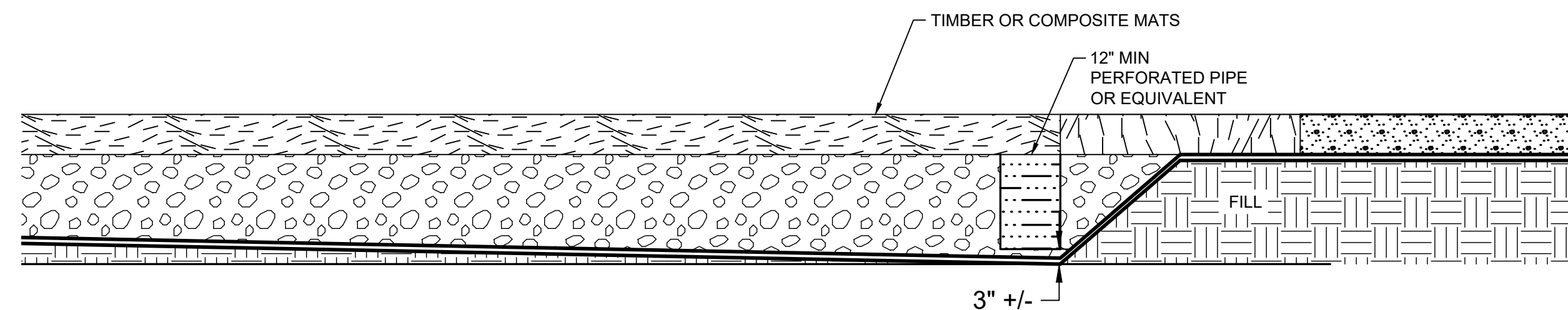
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5/19/2020
DATE



32 PLAN
3 EQUIPMENT WASH PAD
SCALE: NOT TO SCALE



A SECTION
EQUIPMENT WASH PAD
SCALE: NOT TO SCALE







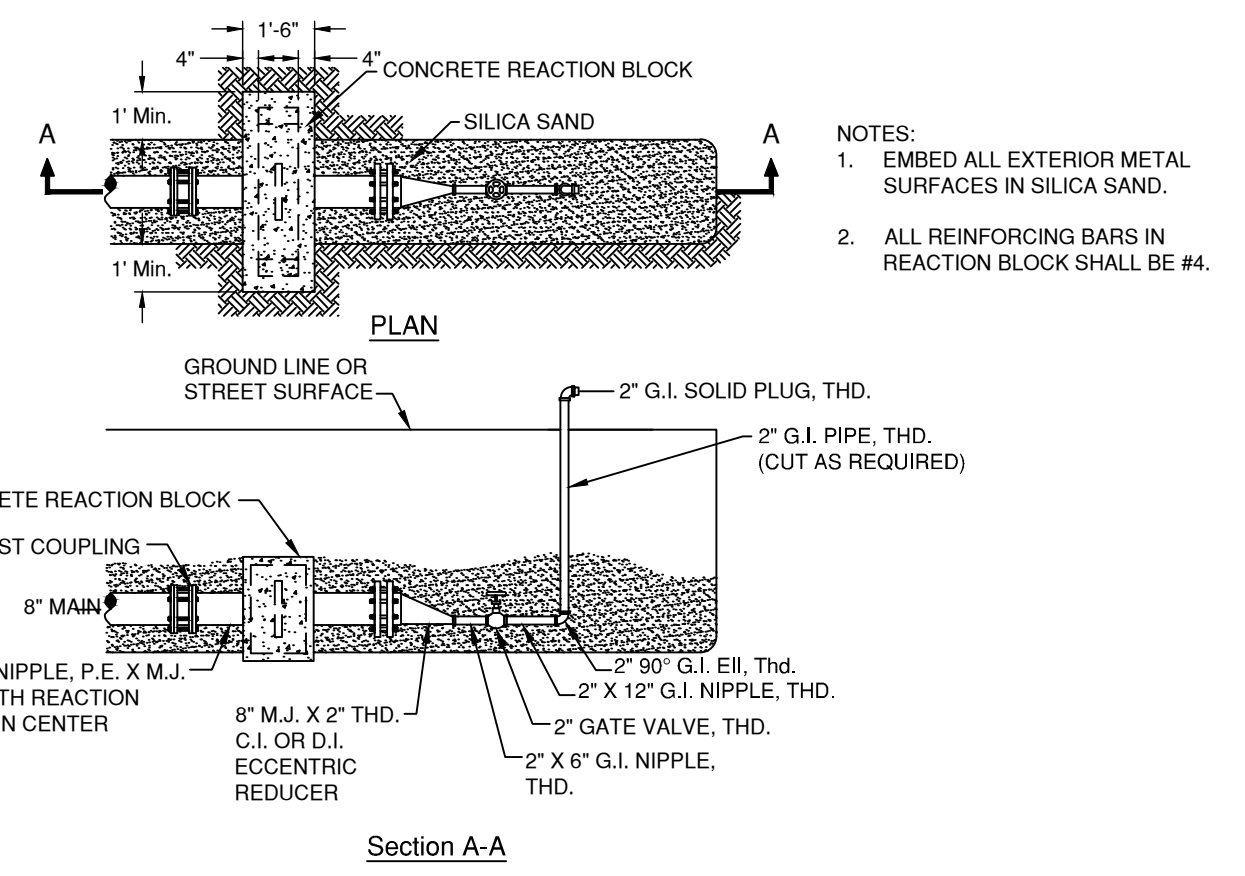
B SECTION
EQUIPMENT WASH PAD SUMP
SCALE: NOT TO SCALE

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.

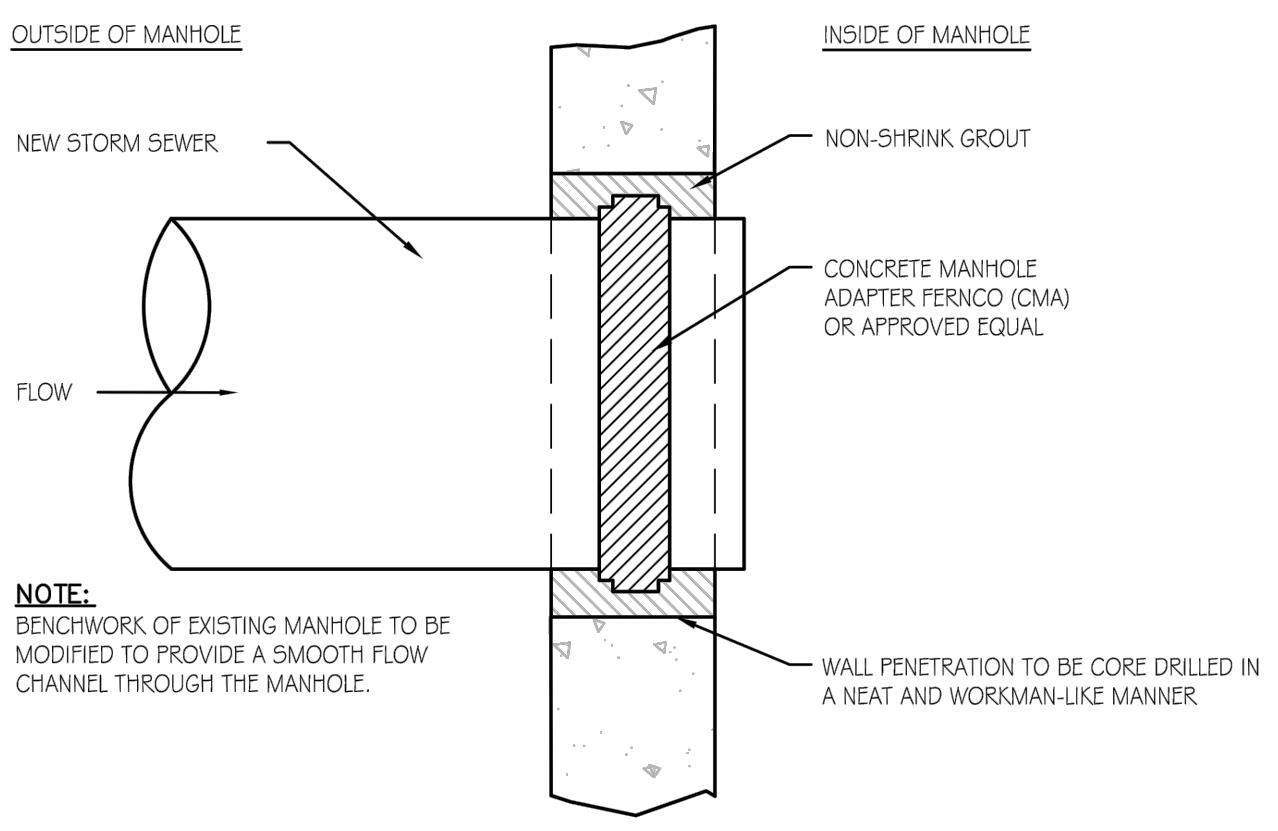
CONSTRUCTION DRAWING

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REV	DATE	DESCRIPTION	DRN	APP
		 		
TITLE:		EQUIPMENT WASH PAD		
PROJECT:		INTERIM REMEDIATION MEASURE #4		
SITE:		FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK		
DESIGN BY: AK		DATE: APRIL 2020		
DRAWN BY: JWO		PROJECT NO.: MN0832I		
CHECKED BY: TBR		FILE: MN0832I-21		
REVIEWED BY: PLB		DRAWING NO.:		
APPROVED BY: AK		21 OF 25		
SIGNATURE: 				
DATE: 5/19/2020				



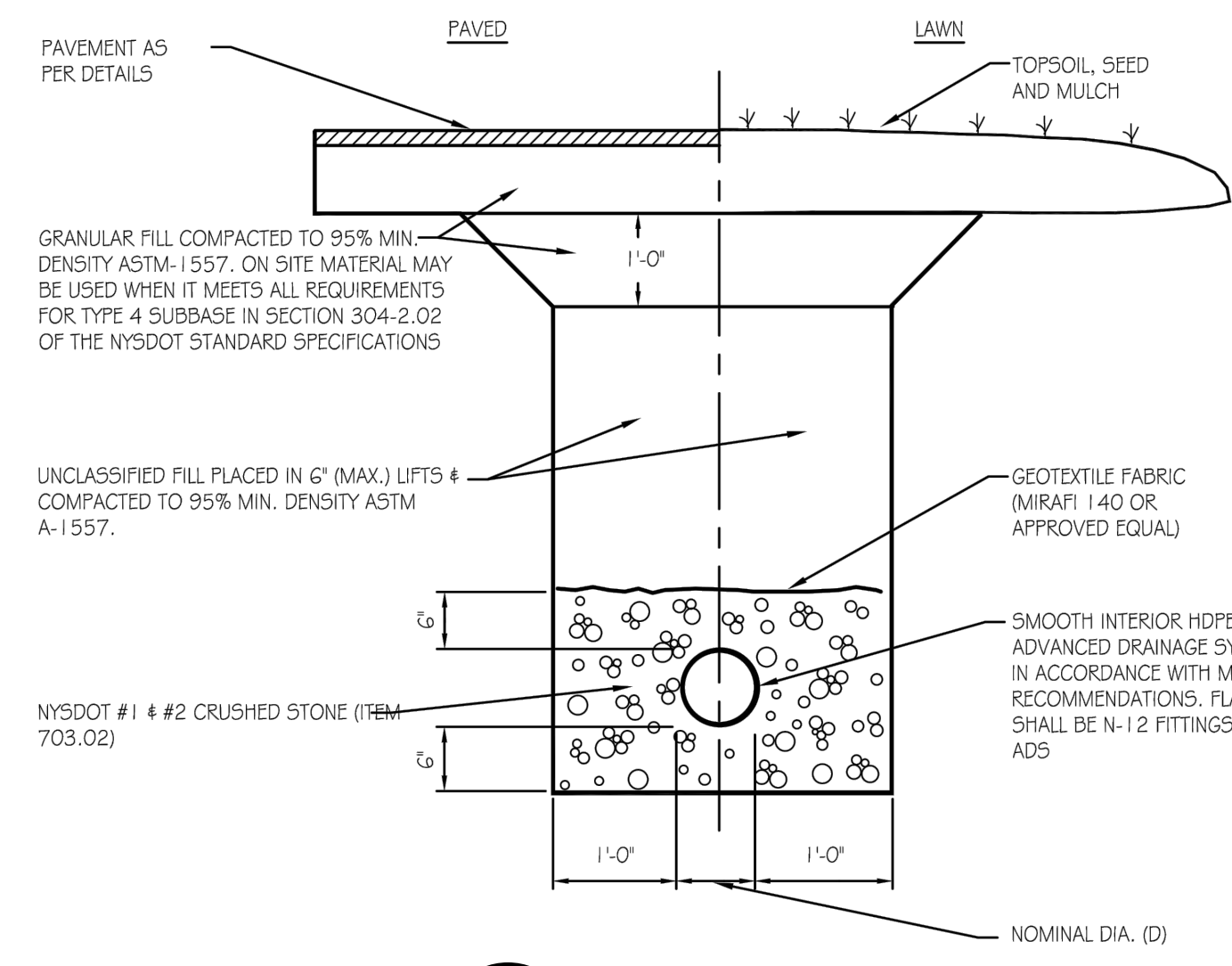
- NOTES:
 1. EMBED ALL EXTERIOR METAL SURFACES IN SILICA SAND.
 2. ALL REINFORCING BARS IN REACTION BLOCK SHALL BE #4.

34
22 DETAIL
 TEMORARY BLOW OFF CONNECTION
 SCALE: NOT TO SCALE



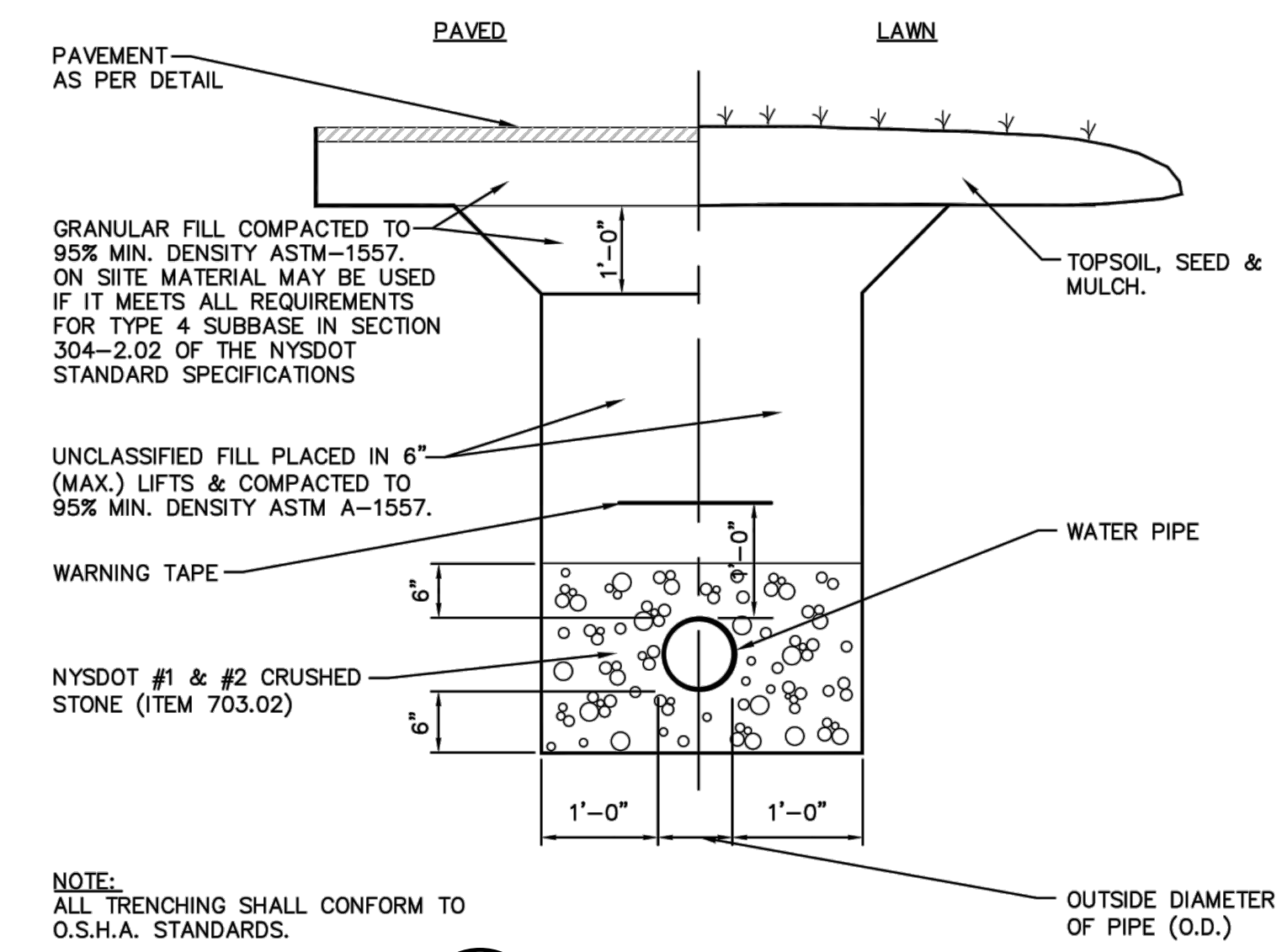
- NOTE:
 BENCHMARK OF EXISTING MANHOLE TO BE MODIFIED TO PROVIDE A SMOOTH FLOW CHANNEL THROUGH THE MANHOLE.

35
22 DETAIL
 STORM STRUCTURE CONNECTION
 SCALE: NOT TO SCALE



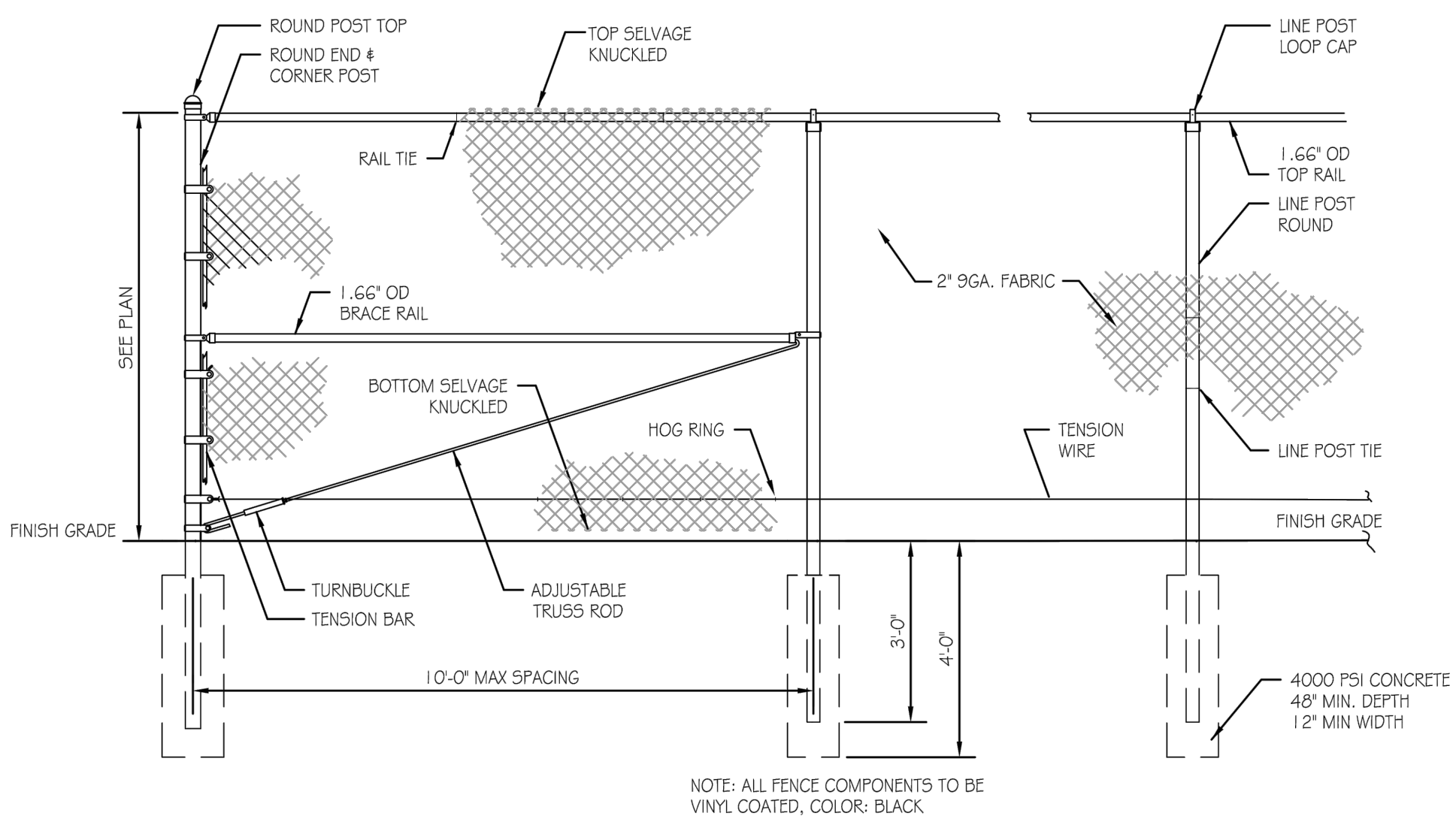
- PAVEMENT AS PER DETAILS
 GRANULAR FILL COMPACTED TO 95% MIN. DENSITY ASTM-1557. ON SITE MATERIAL MAY BE USED WHEN IT MEETS ALL REQUIREMENTS FOR TYPE 4 SUBBASE IN SECTION 304-2.02 OF THE NYSOT STANDARD SPECIFICATIONS
 UNCLASSIFIED FILL PLACED IN 6\"/>

36
22 DETAIL
 STORM SEWER
 SCALE: NOT TO SCALE



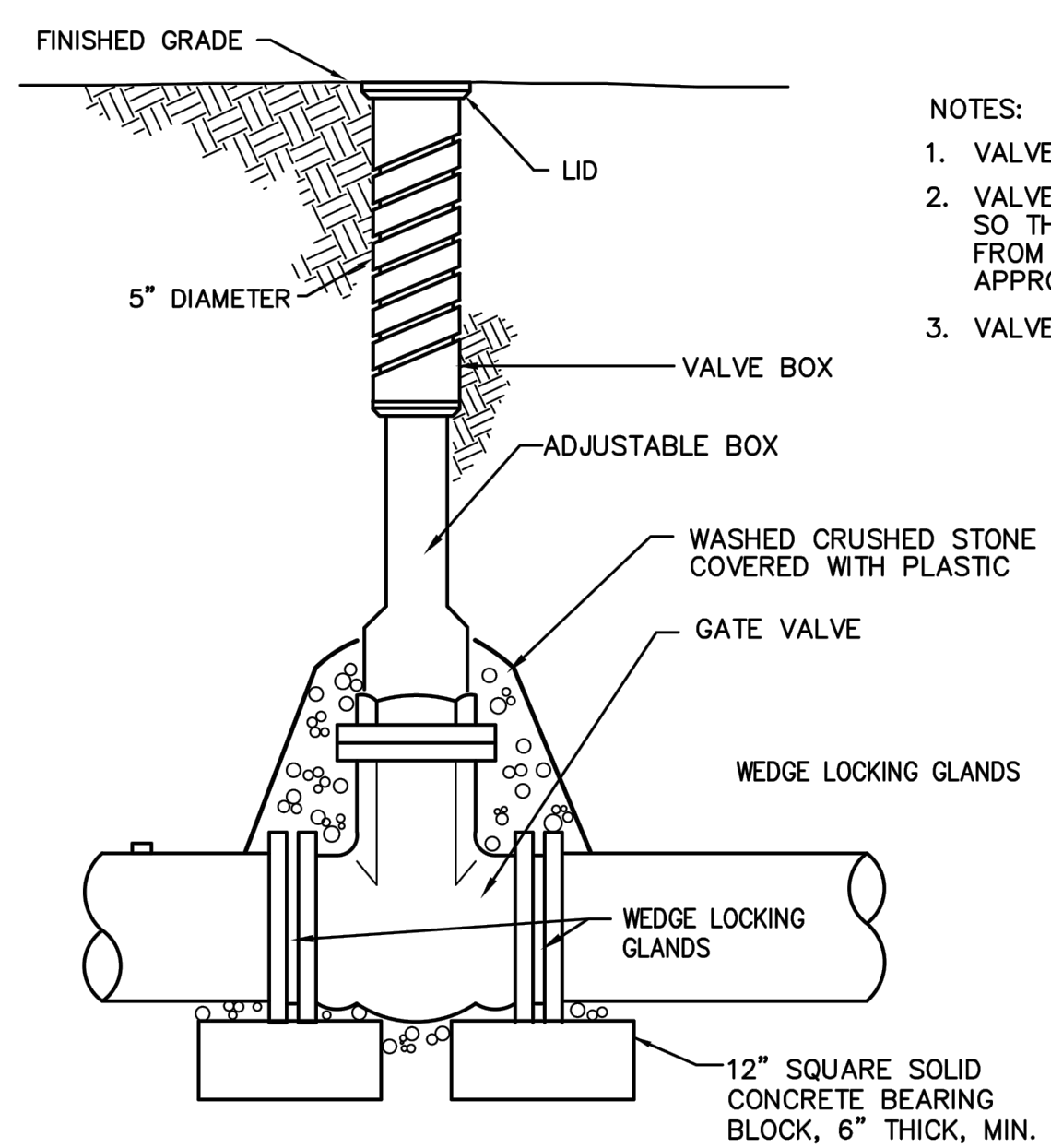
- PAVEMENT AS PER DETAIL
 GRANULAR FILL COMPACTED TO 95% MIN. DENSITY ASTM-1557. ON SITE MATERIAL MAY BE USED IF IT MEETS ALL REQUIREMENTS FOR TYPE 4 SUBBASE IN SECTION 304-2.02 OF THE NYSOT STANDARD SPECIFICATIONS
 UNCLASSIFIED FILL PLACED IN 6\"/>

37
22 DETAIL
 WATER TRENCH
 SCALE: NOT TO SCALE



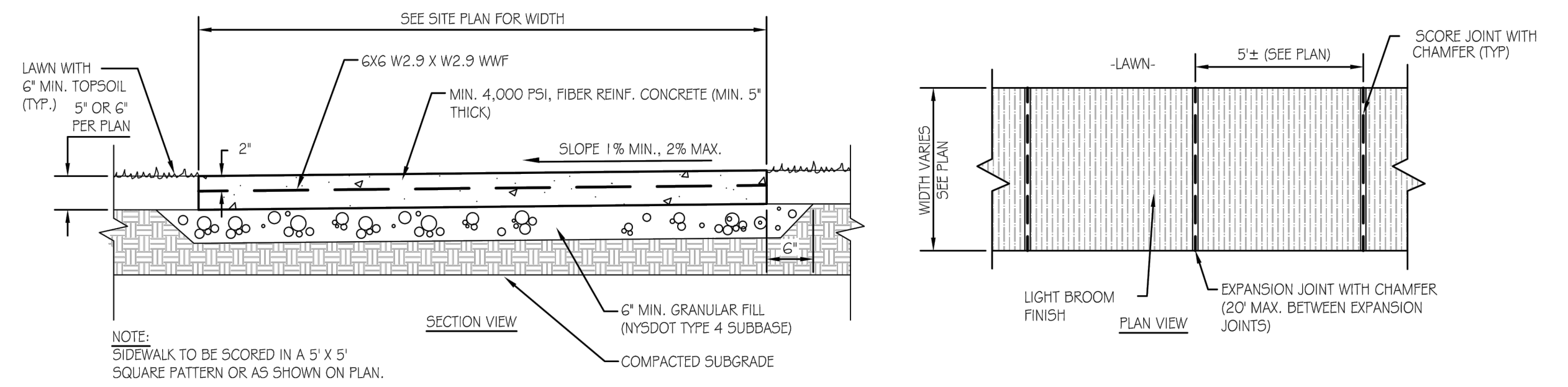
- NOTE: ALL FENCE COMPONENTS TO BE VINYL COATED, COLOR: BLACK

38
22 DETAIL
 CHAIN LINK FENCE
 SCALE: NOT TO SCALE



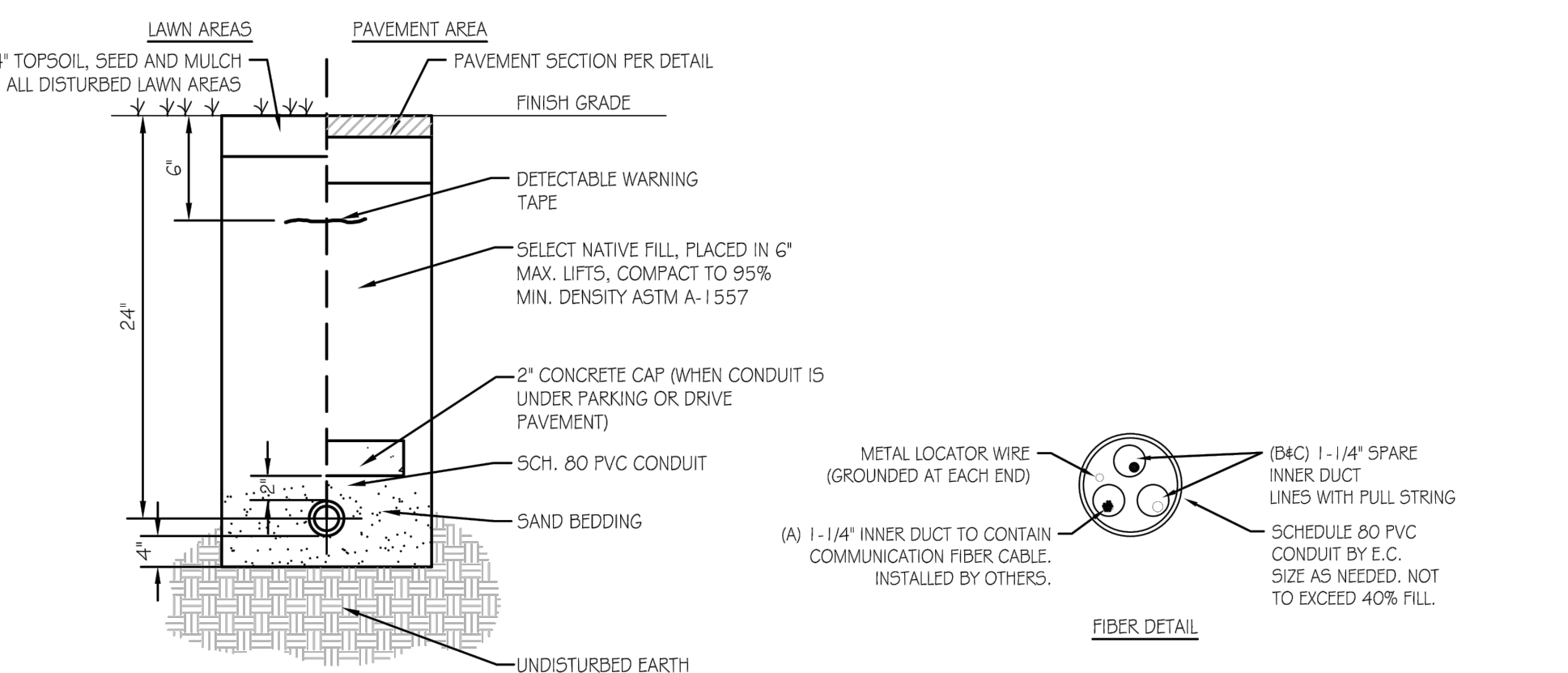
- NOTES:
 1. VALVE BOX COVER SHALL BE STAMPED "WATER"
 2. VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 5\"/>

39
22 DETAIL
 GATE VALVE
 SCALE: NOT TO SCALE

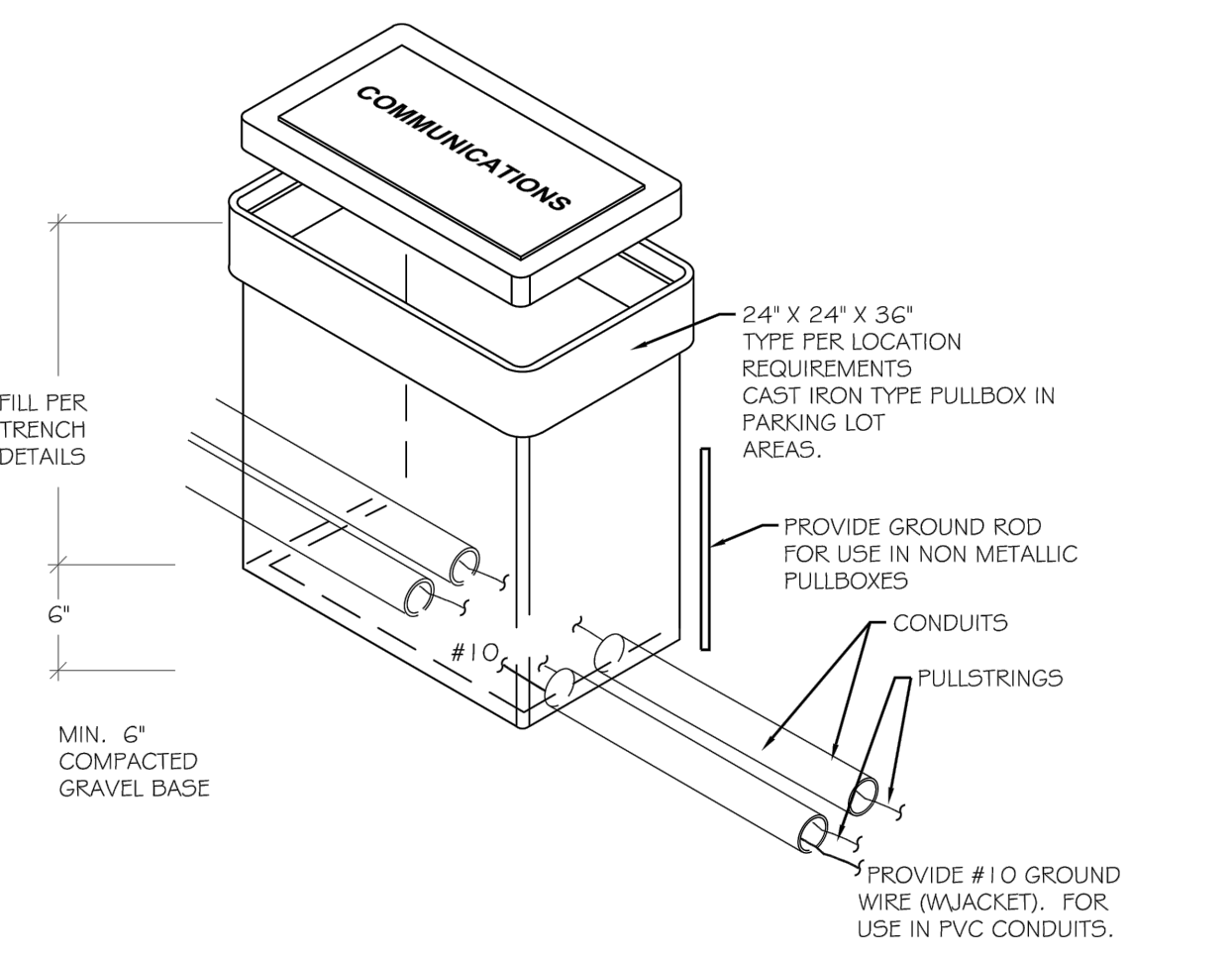


- NOTE: SIDEWALK TO BE SCORED IN A 5' X 5' SQUARE PATTERN OR AS SHOWN ON PLAN.

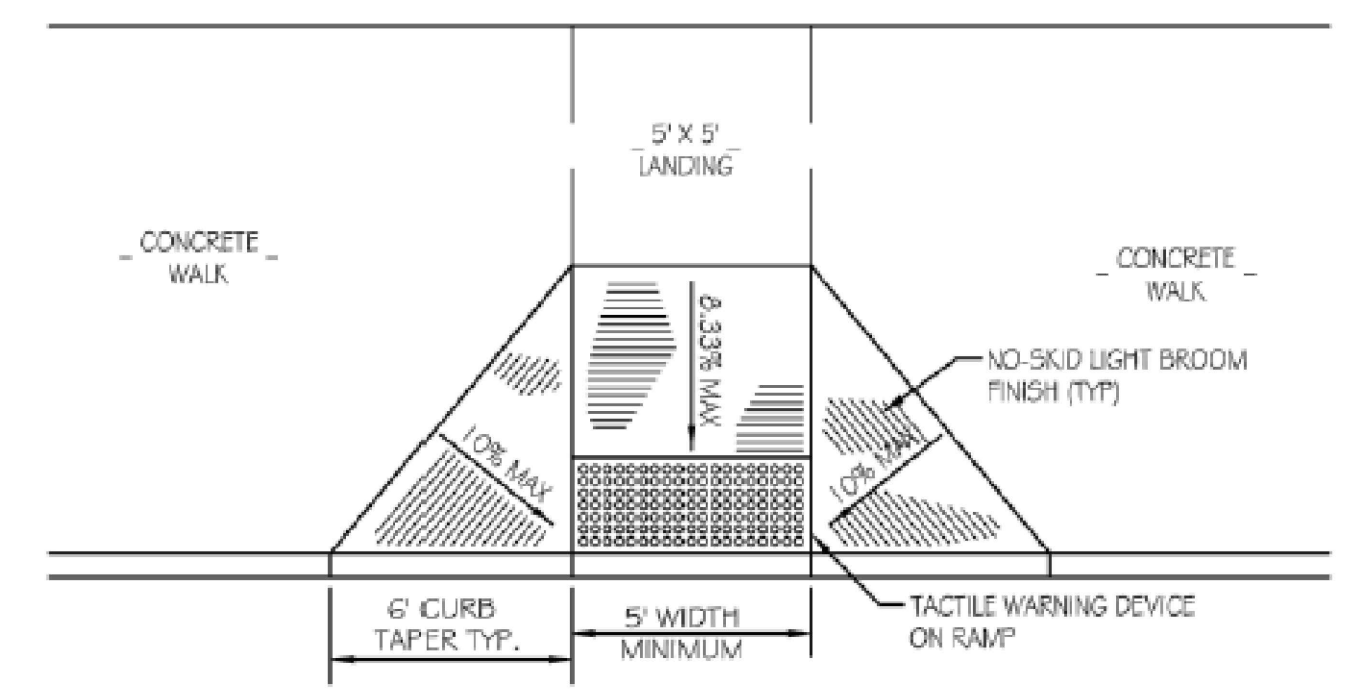
40
22 DETAIL
 CONCRETE SIDEWALK
 SCALE: NOT TO SCALE



41A
22 DETAIL
 CONDUIT TRENCH
 SCALE: NOT TO SCALE



41A
22 DETAIL
 PULL BOX
 SCALE: NOT TO SCALE

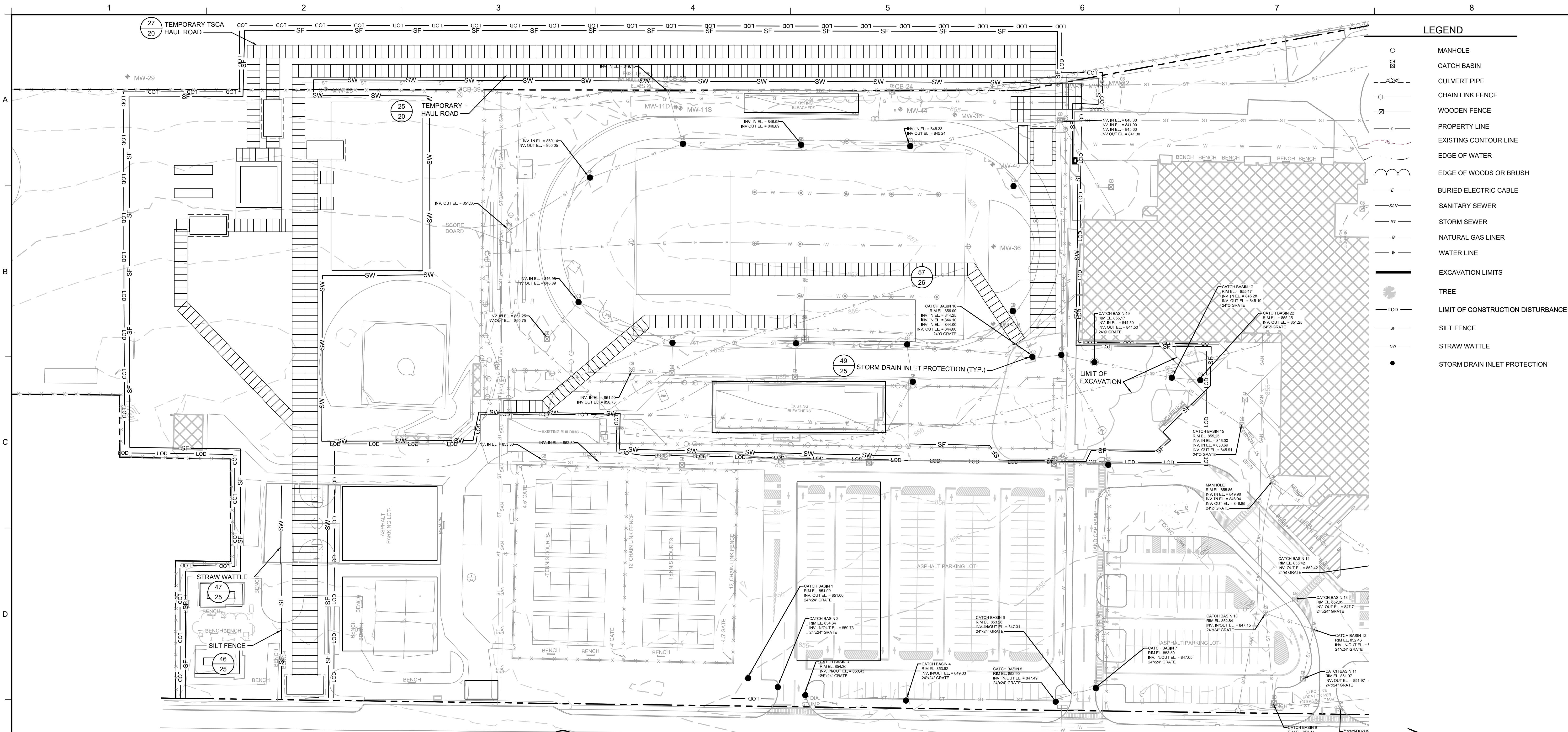


42
22 DETAIL
 ADA ACCESSIBLE CURB RAMP LAYOUT
 SCALE: NOT TO SCALE

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CONSTRUCTION DRAWING

1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP
B&B Engineers & Geologists of new york, p.c. <i>an affiliate of Geosyntec Consultants</i>				
UNISYS				
TITLE: PROPOSED UTILITY RESTORATION DETAILS PROJECT: INTERIM REMEDIATION MEASURE #4 SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
DESIGN BY: JSW		DATE: APRIL 2020		
DRAWN BY: JSW		PROJECT NO.: MN08321		
CHECKED BY: AK		FILE: MN08321-22-23		
REVIEWED BY: CHP		DRAWING NO.:		
APPROVED BY: AK		23 OF 25		



43 PLAN
EROSION AND SEDIMENT CONTROL PLAN

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

GENERAL REQUIREMENTS

- 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.
- 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.
- CONTRACTOR SHALL FULLY ESTABLISH ALL PERIMETER EROSION AND SEDIMENT CONTROLS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
- 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.
- CONTRACTOR SHALL MAINTAIN COPIES OF THE FOLLOWING DOCUMENTS ON-SITE DURING CONSTRUCTION:
 - GENERAL PERMIT GP-0-15-002;
 - NOTICE OF INTENT;
 - NOI ACKNOWLEDGEMENT LETTER;
 - STORMWATER POLLUTION PREVENTION PLAN (SWPPP);
 - MS4 (I.E. CITY OF ELMIRA) SWPPP ACCEPTANCE FORM;
 - INSPECTION REPORTS; AND
 - ANY OTHER DOCUMENTATION NECESSARY TO ELIGIBILITY AND COMPLIANCE WITH PERMIT GP-0-15-002.
- CONTRACTOR SHALL NOT DISTURB GREATER THAN 5 ACRES OF SOIL AT ANY ONE TIME WITHOUT PRIOR AUTHORIZATION FROM THE CITY OF ELMIRA.
- 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.
- TEMPORARY SILT FENCE SHALL BE PLACED ON ALL PERIMETER FENCING AND IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED FOR MORE THAN ONE DAY.
- CONSTRUCTION DETAILS, MATERIAL REQUIREMENTS, DESIGN CRITERIA, AND MAINTENANCE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL PRACTICES ARE PROVIDED ON THE DRAWING DETAILS.
- 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:
 - STABILIZED CONSTRUCTION ENTRANCE
 - EARTH DIKE

SILT FENCE

- SILT FENCE
- COMPOST FILTER SOCK
- DEWATERING SUMP
- TEMPORARY CONSTRUCTION AREA SEEDING
- RECREATIONAL AREA SEEDING

- OTHER PRACTICES NOT SHOWN ON THE DRAWINGS OR LISTED ABOVE SHALL BE IMPLEMENTED AS NECESSARY TO PROTECT WATER QUALITY AND MINIMIZE SEDIMENT RUNOFF.
- 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.
- 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.
- CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED IN CONSTRUCTION ACTIVITIES THAT MAY AFFECT STORMWATER QUALITY SHALL SIGN THE CONTRACTOR CERTIFICATION STATEMENT.
- SITE INFORMATION:
 - AREA DISTURBED 6.38 ACRES.
- CONTRACTOR SHALL USE SAND BAGS, COMPOST FILTER SOCKS, GEO-TUBES FILLED WITH BALLAST OR MANUFACTURES SURFACE BARRIERS AS STORMWATER INLET BMPs AROUND CATCH BASINS AND STORMWATER INLETS.

SOIL STABILIZATION AND DUST CONTROL

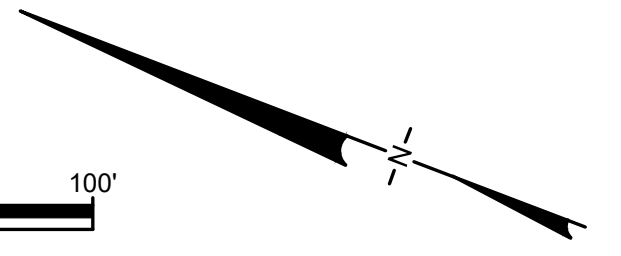
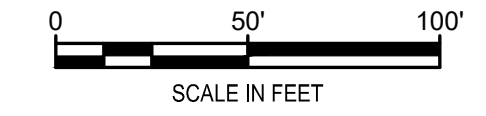
- VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (NOVEMBER 2016) FOR TEMPORARY CONSTRUCTION AREA SEEDING, RECREATIONAL AREA SEEDING, TOPSOILING, AND MULCHING.
- TEMPORARY CONSTRUCTION AREA SEEDING:
 - 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.)
 - DURING LATE FALL OR EARLY WINTER SEED WITH CERTIFIED 'AROSTOOK' WINTER RYE (CERYLE RYE) AT 100 LBS PER ACRE (2.5 LBS/1000 SQ. FT.)
 - 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.
 - 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.

PERMANENT RECREATION AREA SEEDING

- 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.
- SITE PREPARATION:
 - INSTALL NEEDED WATER AND EROSION CONTROL MEASURES AND BRING AREA TO BE SEED TO DESIRED GRADES. A MINIMUM OF 4 IN. TOPSOIL IS REQUIRED.
 - PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4-6 INCHES AND DECOMPACTING REQUIRED AREAS PER SOIL RESTORATION STANDARD.
 - SEE STANDARD AND SPECIFICATION OF TOPSOILING.
 - LIME TO A PH OF 6.5. SEE LIME APPLICATION STANDARD.
 - 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.
 - INCORPORATE LIME AND FERTILIZER IN TOP 2-4 INCHES OF TOPSOIL.
 - SMOOTH, REMOVE STICKS, FOREIGN MATTER, AND STONES OVER 1 INCH IN DIAMETER, FROM THE SURFACE. FIRM THE SEEDBED.
- 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 HYDROSEEDED, LIME AND FERTILIZER MAY BE APPLIED THROUGH THE SEEDER, AND ROLLING IS NOT PRACTICAL.
- MULCHING: MULCH ALL SEEDINGS IN ACCORDANCE WITH STANDARD AND SPECIFICATIONS FOR MULCHING. SMALL GRAIN STRAW IS THE BEST MATERIAL.
- SEED MIXTURE:
 - RECREATIONAL AREAS: PREFERRED SEED CO. SUMMER GREEN SUPREME MIX 8 LBS/1000 SQ. FT. SPORT FIELD AREAS: PREFERRED SEED CO. 50/50 SPORTS SUNNY MIX 4 LBS/1000 SQ. FT.
- 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.
- DUST CONTROL: CONTRACTOR SHALL PERFORM DUST CONTROL AS REQUIRED BY THE CONTRACT SPECIFICATIONS AND DUST CONTROL MONITORING PLAN.

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
	LIMIT OF CONSTRUCTION DISTURBANCE
	SILT FENCE
	STRAW WATTLE
	STORM DRAIN INLET PROTECTION



REV	DATE	DESCRIPTION	BGF	AK
1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
REV	DATE	DESCRIPTION	DRN	APP

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UNISYS

TITLE: **EROSION AND SEDIMENT CONTROL PLAN**

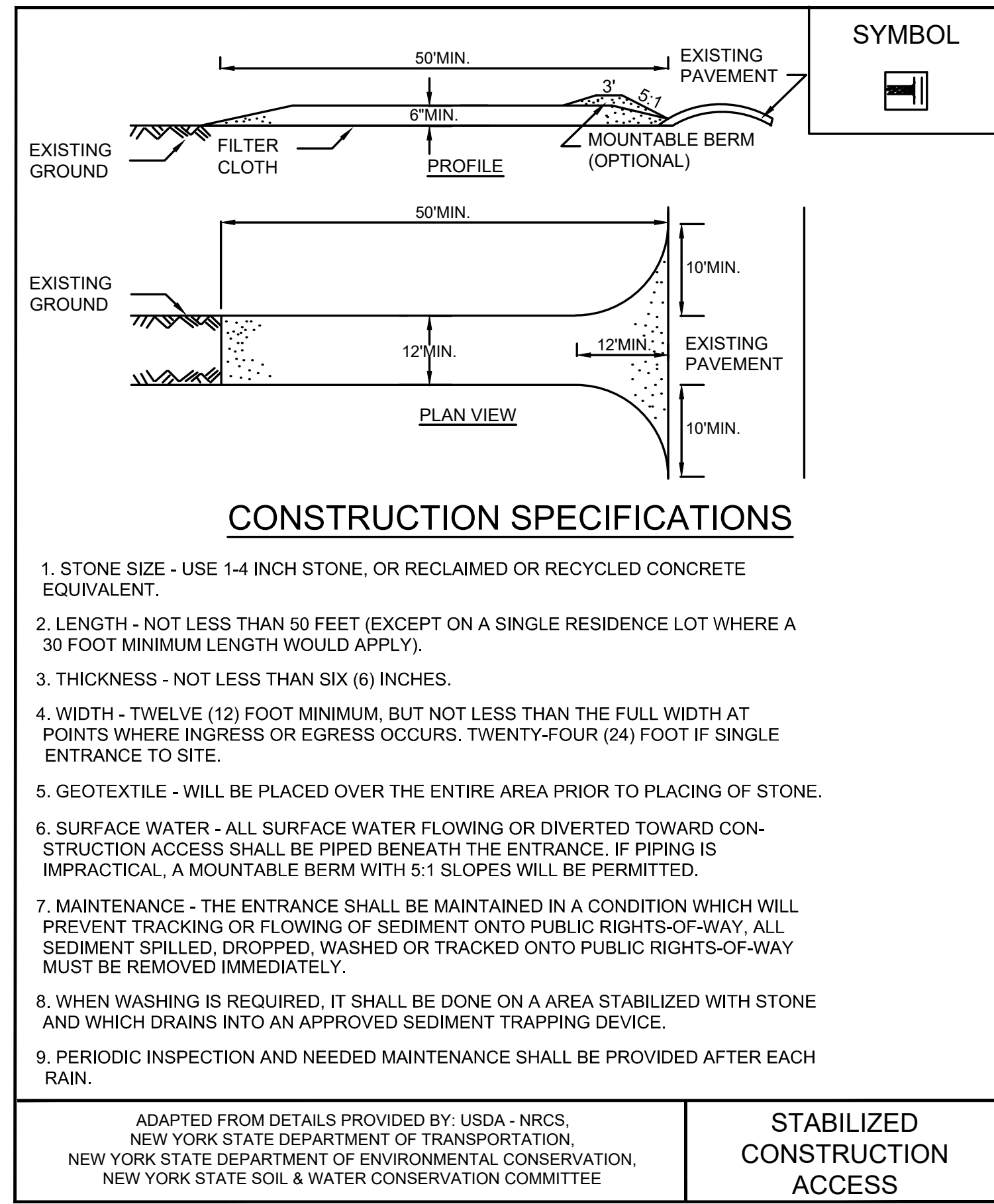
PROJECT: **INTERIM REMEDIATION MEASURE #4**

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

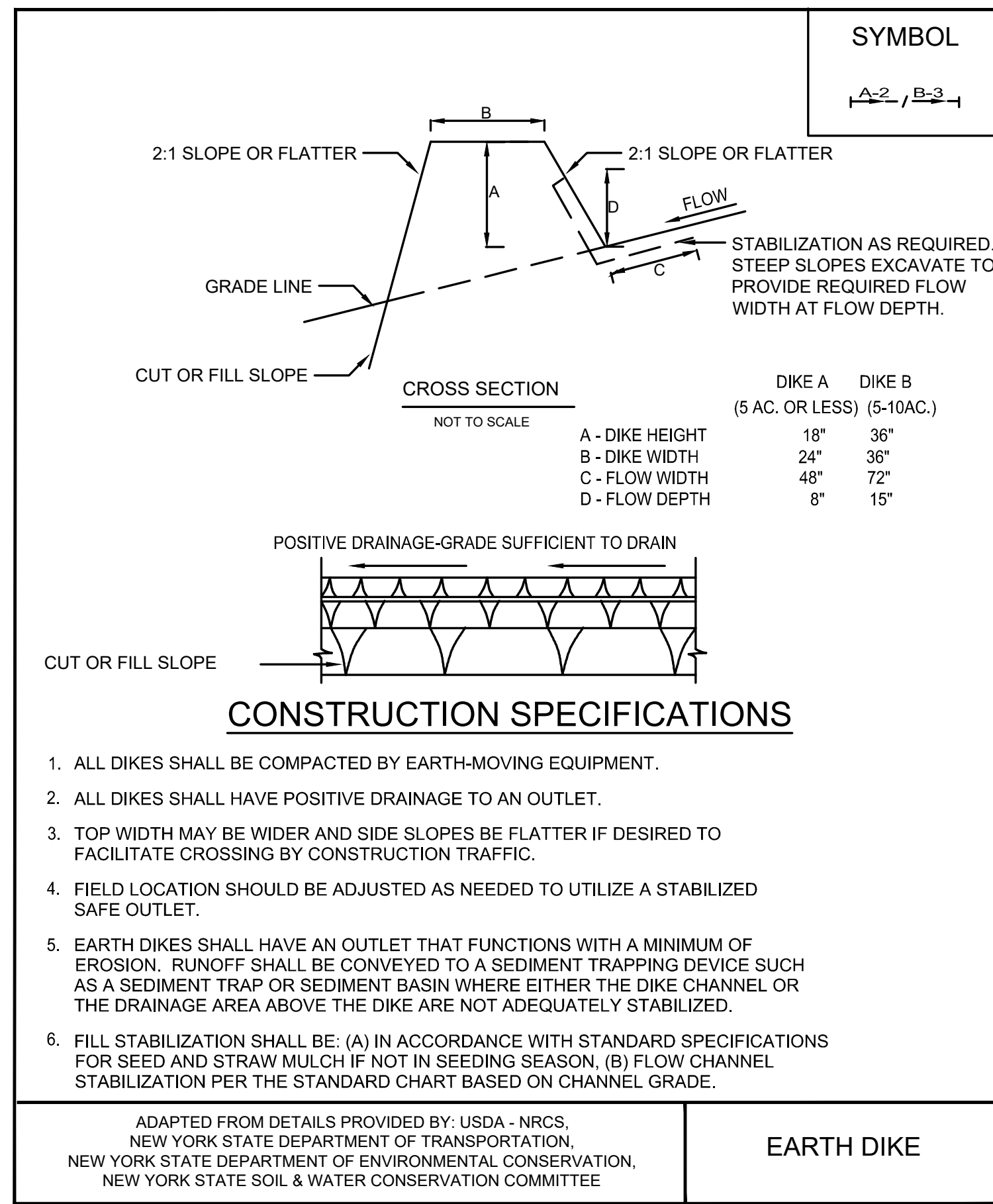
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DRAWN BY:	JWO	PROJECT NO.:	MN08321
CHECKED BY:	TBR	FILE:	MN08321-24
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK	24	OF 25

CONSTRUCTION DRAWING

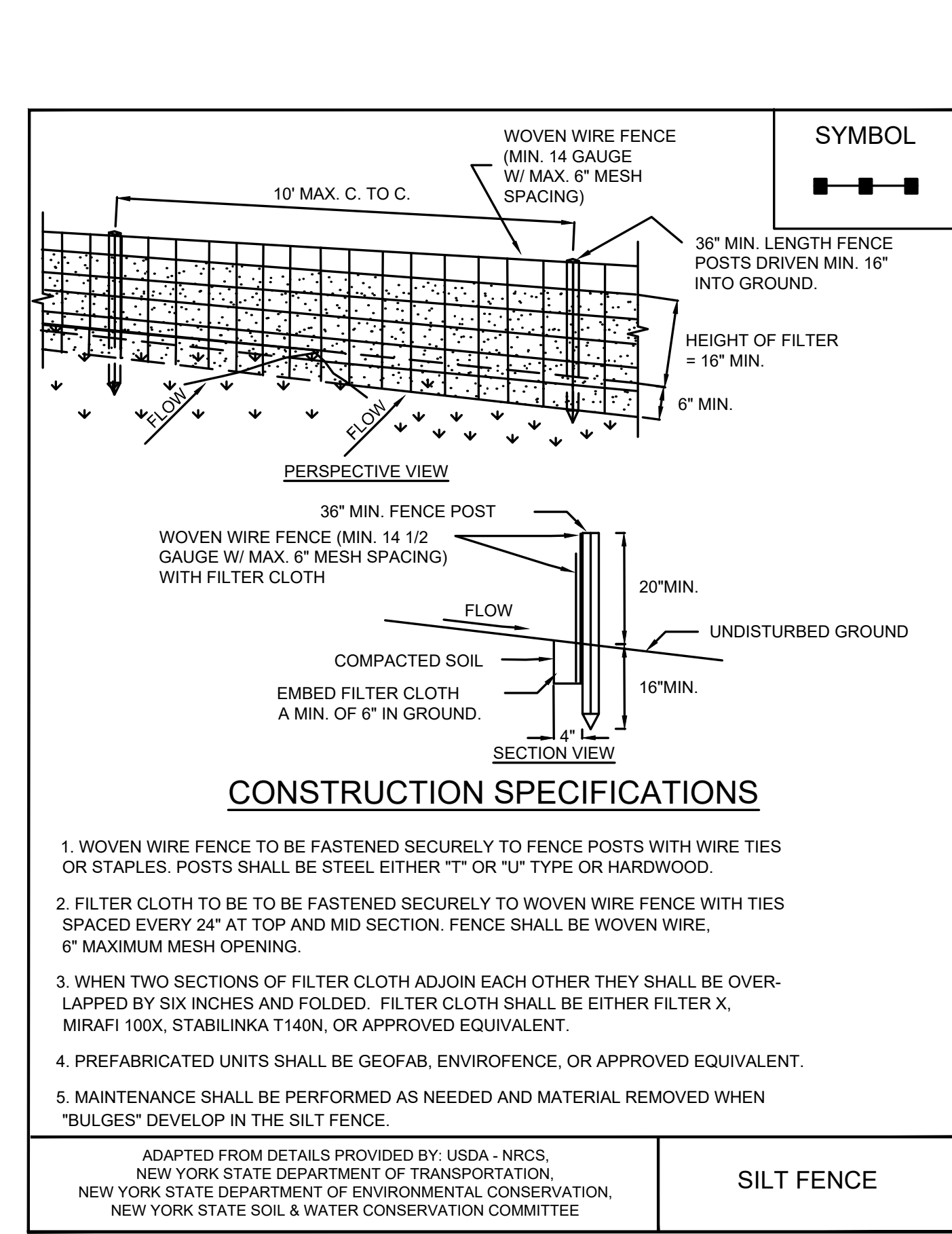
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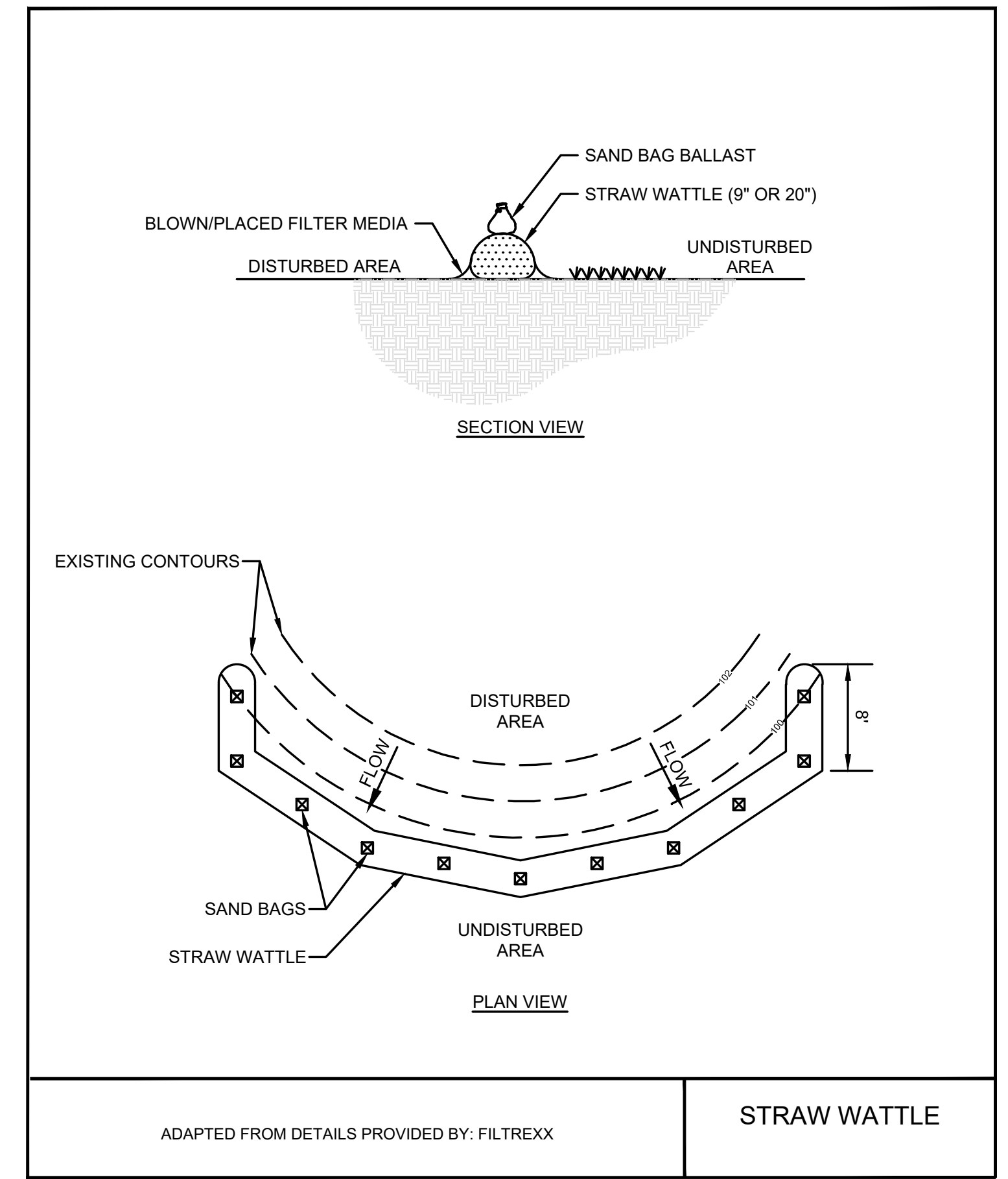
44 **DETAIL**
25 **STABILIZED CONSTRUCTION ACCESS**
SCALE: NOT TO SCALE



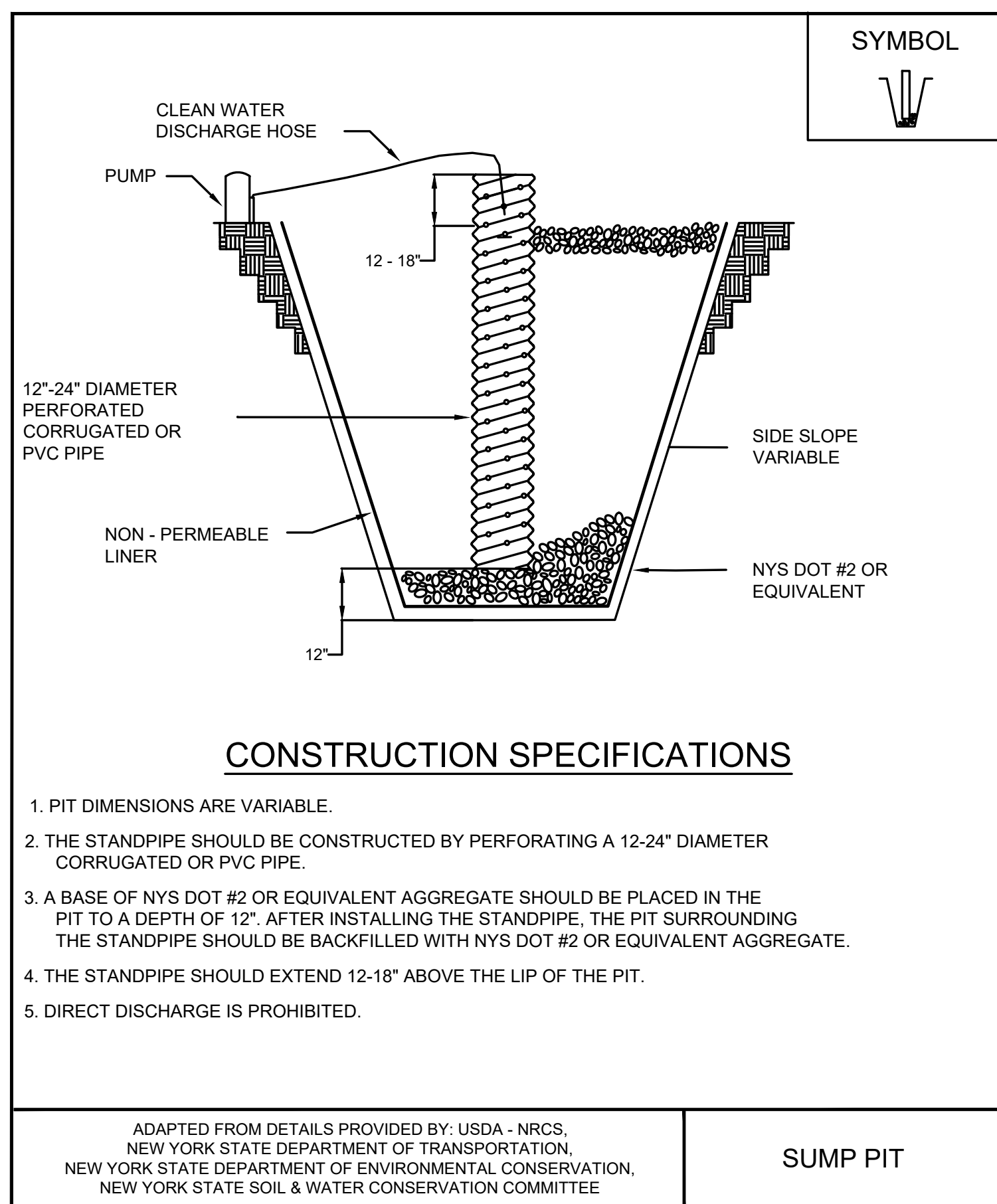
45 **DETAIL**
- **EARTH DIKE**
(NOTE: AS NEEDED)
SCALE: NOT TO SCALE



46 **DETAIL**
18 **SILT FENCE**
SCALE: NOT TO SCALE



47 **DETAIL**
20 **STRAW WATTLE**
SCALE: NOT TO SCALE



48 **DETAIL**
- **EXCAVATION DEWATERING SUMP PIT**
(NOTE: AS NEEDED)
SCALE: NOT TO SCALE

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 FROM THE SITE INTO SURFACE WATERS. THE FOLLOWING MINIMUM PRACTICES FOR STORMWATER POLLUTION PREVENTION WILL BE PERFORMED:

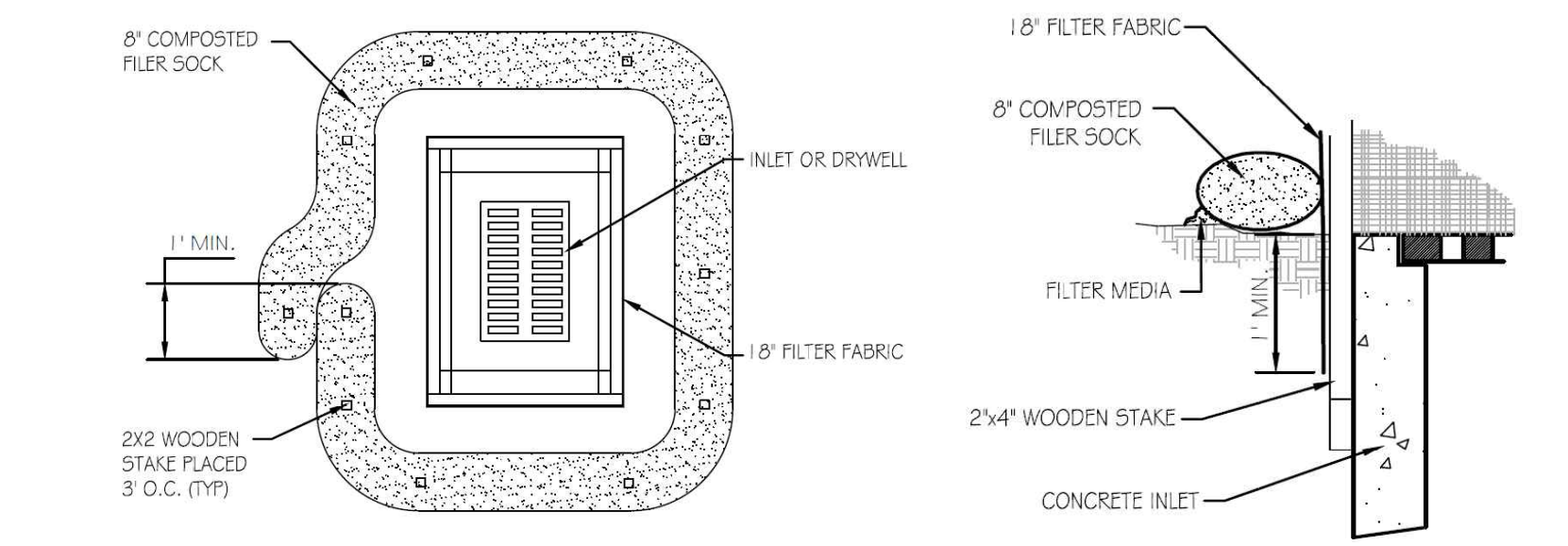
- ALL STATE AND FEDERAL REGULATIONS SHALL BE FOLLOWED FOR THE STORAGE, HANDLING, APPLICATION, USAGE, AND DISPOSAL OF PESTICIDES, FERTILIZERS, AND PETROLEUM PRODUCTS.
- VEHICLE AND CONSTRUCTION EQUIPMENT STAGING AND MAINTENANCE AREAS WILL BE LOCATED AWAY FROM ALL DRAINAGE WAYS WITH THEIR PARKING AREAS GRADED SO THE RUNOFF FROM THESE AREAS IS COLLECTED, CONTAINED AND TREATED PRIOR TO DISCHARGE FROM THE SITE.
- CONTRACTOR SHALL PROVIDE SANITARY FACILITIES FOR ON-SITE PERSONNEL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 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.
- CONTRACTOR SHALL DEVELOP AND IMPLEMENT A SPILL PREVENTION AND CONTROL PLAN. THE PLAN SHOULD INCLUDE NYSDEC'S SPILL REPORTING AND INITIAL NOTIFICATION REQUIREMENTS.
- 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.
- CONTRACTOR SHALL POST INFORMATIONAL MATERIAL REGARDING PROPER HANDLING, SPILL RESPONSE, SPILL KIT LOCATION, AND EMERGENCY ACTIONS TO BE TAKEN, TO ALL CONSTRUCTION PERSONNEL.
- REFUELING EQUIPMENT SHALL BE LOCATED AT LEAST 100 FEET FROM ALL WETLANDS, STREAMS AND OTHER SURFACE WATERS.

MAINTENANCE AND INSPECTION

- 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.
- DAILY INSPECTION REPORTS SHALL BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION.

DISCHARGE

- 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.
- 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.



49 **DETAIL**
20 **DROP INLET PROTECTION DETAIL**
SCALE: NOT TO SCALE

NOTES:

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

1	5/19/2020	RESPONSE TO AGENCY COMMENTS	BGF	AK
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EROSION AND SEDIMENT CONTROL DETAILS				
INTERIM REMEDIATION MEASURE #4				
FORMER SPERRY-REMINGTON SITE - NORTH PORTION ELMIRA, NEW YORK				
DESIGN BY:	AK	DATE:	APRIL 2020	
DRAWN BY:	JWO	PROJECT NO.:	MN0832I	
CHECKED BY:	TBR	FILE:	MN0832I-25	
REVIEWED BY:	PLB	DRAWING NO.:	25 OF 25	
APPROVED BY:	AK	DATE:	5/19/2020	