

LOCATION MAP
Scale: 1" = 500'

E&S LEGEND:

	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED INLET PROTECTION
	PROPOSED SUPER SILT FENCE
	PROPOSED COMPOST FILTER SOCK
	PROPOSED SLOPE MATTING
	PROPOSED ROCK CONSTRUCTION ENTRANCE
	PROPOSED CONCRETE WASHOUT
	PROPOSED SKIMMER AND TEMP RISER
	CHANNEL DRAINAGE AREA
	SEDIMENT TRAP DRAINAGE AREA
	PROJECT SITE BOUNDARY
	PROPOSED BAFFLE
	LIMITS OF TEMPORARY CHAIN LINK OBSTRUCTION

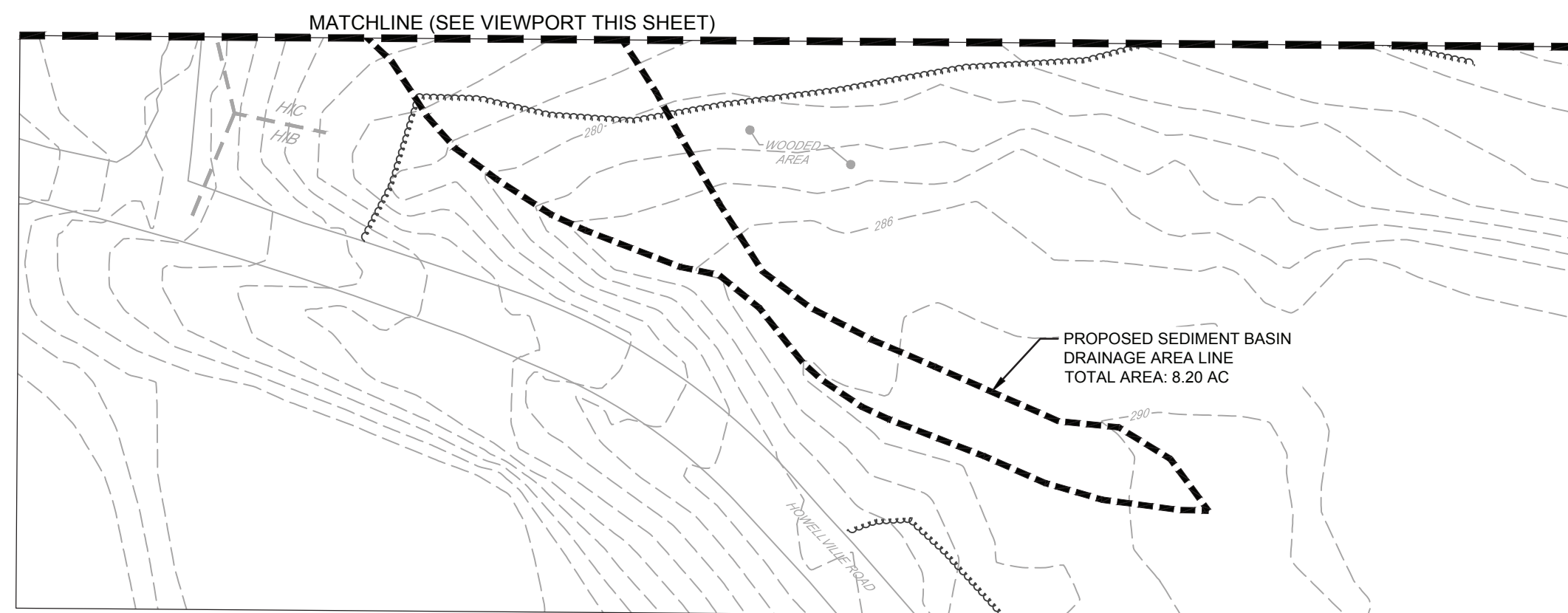
SYMBOL	NAME	HYDROLOGIC GROUP	SLOPES	HYDRIC	DEPTH TO		LIMITATIONS		RESOLUTION NOTES
					WATER TABLE (IN)	BEDROCK (IN)	FROST ACTION	SMALL COMMERCIAL BUILDINGS	
CIB	CONESTOGA SILT LOAM	B	3-8%	NO	>80	60-99	MODERATE	SOMEWHAT LIMITED	#2 - #3 SEE RESOLUTION NOTES
CIC	CONESTOGA SILT LOAM	B	8-15%	NO	>80	60-99	MODERATE	VERY LIMITED	-
HIC	HOLLINGER SILT LOAM	B	8-15%	NO	>80	60-99	MODERATE	VERY LIMITED	-
URB	URBAN LAND	-	0-8%	NO	-	-	NONE	NOT RATED	#1 SEE RESOLUTION NOTES

RESOLUTION NOTES

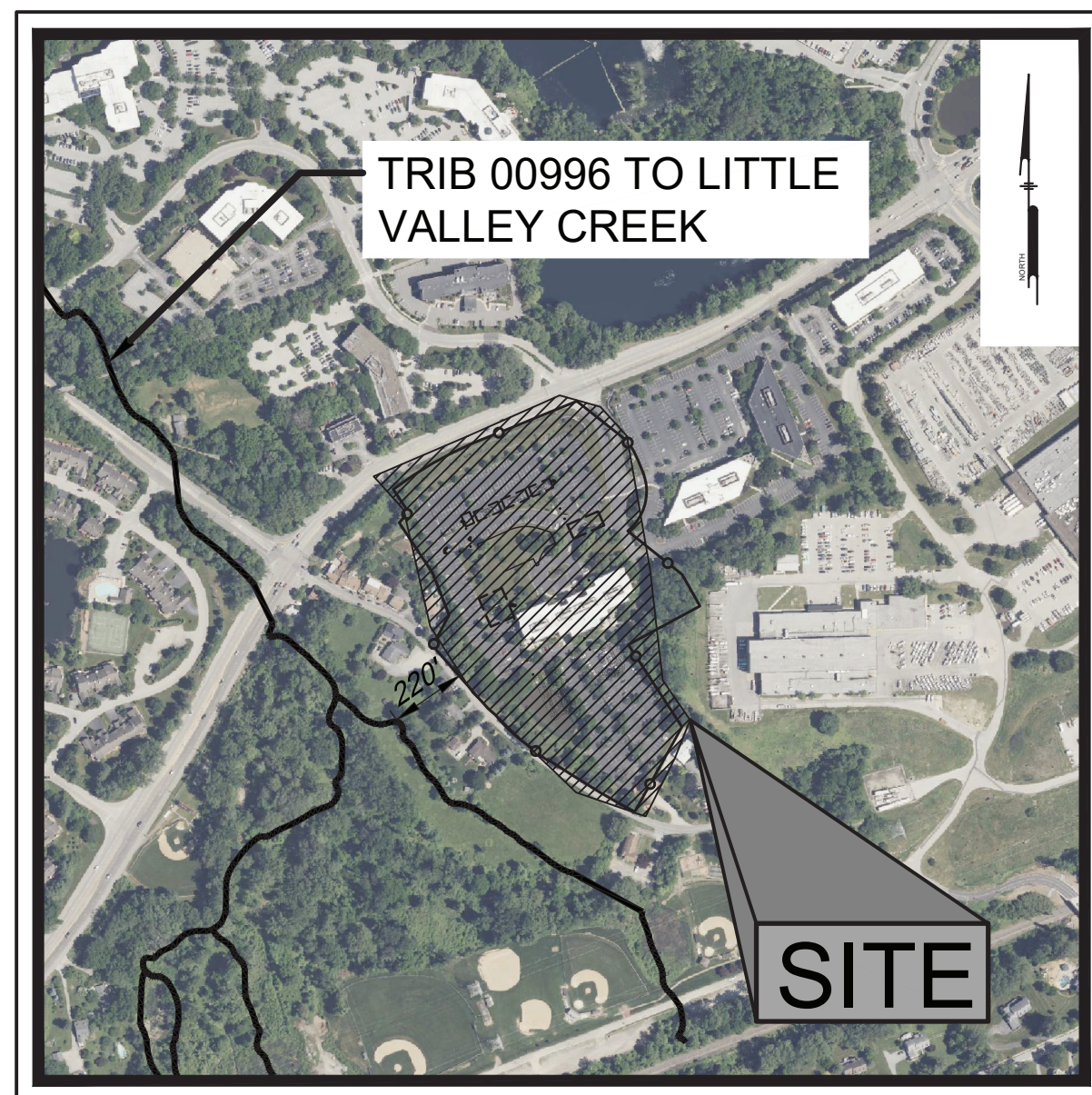
1. DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE:
SHOULD A HIGH GROUND WATER TABLE BE ENCOUNTERED DURING CONSTRUCTION, WATER WILL BE DRAINED OFF AND DISCHARGED OFF SITE. SATURATED SOILS WILL BE DRIED PRIOR TO BEING USED ON SITE.
2. PIRPING:
ADDITION OF EMBANKMENTS WITH PIPES PASSING THROUGH THEM SHALL HAVE ANTI-SEEP COLLARS INSTALLED PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTIONS (PA DEP) EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM.
3. CUT BANKS CAVE - ALMOST ALL PENNSYLVANIA SOILS ARE SUSCEPTIBLE TO CAVING OF CUT BANKS. CUT SLOPES WILL BE STABILIZED AS SOON AS POSSIBLE WITH SEED AND MULCH OR EROSION CONTROL BLANKETS TO PREVENT SLIDING. SLOPES ARE DESIGNED TO NOT EXCEED 2H:1V.
4. CORROSIVE TO CONCRETE/STEEL PIPE:
PIPES TO BE USED ON SITE SHALL BE HDPE OR COATED STEEL.
5. POTENTIAL SINKHOLE:
SHOULD A SINKHOLE BE ENCOUNTERED DURING CONSTRUCTION, REPAIR SHOULD BE DONE UNDER THE DIRECT OBSERVATION AND SUPERVISION OF A PROFESSIONAL GEOTECHNICAL ENGINEER.
6. LOW STRENGTH - MOST OF PENNSYLVANIA SOILS (73%) HAVE RELATIVELY LOW STRENGTH. PRECAUTIONS WILL BE TAKEN TO PREVENT SOLE FAILURES DUE TO IMPROPER CONSTRUCTION PRACTICES. SOILS WILL BE EVALUATED DURING CONSTRUCTION TO DETERMINE WHETHER ADDITIONAL MEASURES WILL NEED TO BE TAKEN.

GEOLOGY NOTE

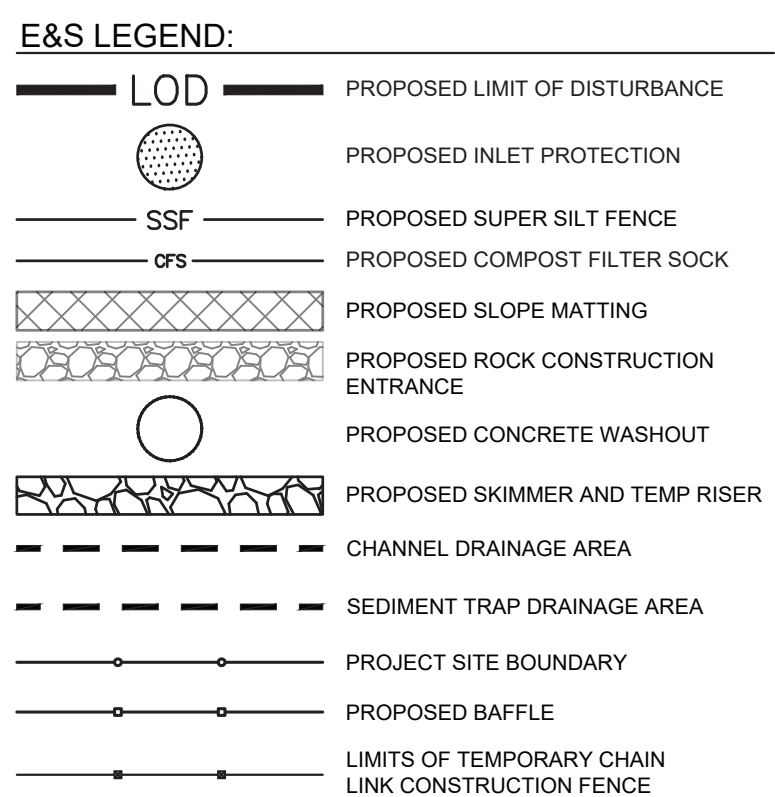
STATE: PENNSYLVANIA
NAME: CONESTOGA FORMATION
GEOLOGIC AGE: ORDOVICIAN AND CAMBRIAN
ORIGINAL MAP LABEL: OCc
PRIMARY ROCK TYPE: LIMESTONE
SECONDARY ROCK TYPE: SHALE,
CONGLOMERATIC LIMESTONE, PHYLLITE



NOT FOR CONSTRUCTION



LOCATION MAP
Scale: 1" = 500'



SOIL TABLE									
SYMBOL	NAME	HYDROLOGIC GROUP	SLOPES	HYDRIC	DEPTH TO		LIMITATIONS		RESOLUTION NOTES
					WATER TABLE (IN)	BEDROCK (IN)	FROST ACTION	SMALL COMMERCIAL BUILDINGS	
CIB	CONESTOGA SILT LOAM	B	3-8%	NO	>80	60-99	MODERATE	SOMEWHAT LIMITED	#2 - #6 SEE RESOLUTION NOTES
CIC	CONESTOGA SILT LOAM	B	8-15%	NO	>80	60-99	MODERATE	VERY LIMITED	-
HIC	HOLLINGER SILT LOAM	B	8-15%	NO	>80	60-99	MODERATE	VERY LIMITED	-
UrB	URBAN LAND	-	0-8%	NO	-	-	NONE	NOT RATED	#1 SEE RESOLUTION NOTES

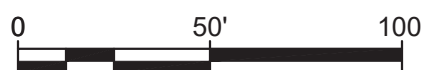
RESOLUTION NOTES:	GEOLOGY NOTE:
<p>1. DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE: SHOULD A HIGH GROUND WATER TABLE BE ENCOUNTERED DURING CONSTRUCTION, WATER WILL BE DRAINED AWAY FROM DISTURBED AREAS TO A WELL VEGETATED AREA OR A PLACED COMPOST FILTER SOCK PRIOR TO BEING DISCHARGED OFF SITE. SATURATED SOILS THE REQUIRE COMPACTION WILL BE DRIED PRIOR TO BEING USED ON SITE.</p> <p>2. PIPING: AREAS OF EMBANKMENTS WITH PIPES PASSING THROUGH THEM SHALL HAVE ANTI-SEEP COLLARS INSTALLED PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTIONS (PA DEP) EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM.</p> <p>3. CUT BANKS CAVES: ALMOST ALL PENNSYLVANIA SOILS ARE SUSCEPTIBLE TO CAVING OF CUT BANKS. CUT SLOPES WILL BE STABILIZED AS SOON AS POSSIBLE WITH SEED AND MULCH OR EROSION CONTROL BLANKETS TO PREVENT SLIDING. SLOPES ARE DESIGNED TO NOT EXCEED 2H:1V.</p> <p>4. CORROSIVE TO CONCRETE/STEEL PIPE: PIPES TO BE USED ON SITE SHALL BE HDPE OR COATED STEEL</p> <p>5. POTENTIAL SINKHOLE: SHOULD A SINKHOLE BE ENCOUNTERED DURING CONSTRUCTION, REPAIR SHOULD BE DONE UNDER THE DIRECT OBSERVATION AND SUPERVISION OF A PROFESSIONAL GEOLOGIST OR LICENSED GEOLOGICAL ENGINEER.</p> <p>6. LOW STRENGTH - MOST OF PENNSYLVANIA SOILS (73%) HAVE RELATIVELY LOW STRENGTH. PRECAUTIONS WILL BE TAKEN TO PREVENT SLOPE FAILURES DUE TO IMPROPER CONSTRUCTION PRACTICES. SOILS WILL BE EVALUATED DURING CONSTRUCTION TO DETERMINE WHETHER ADDITIONAL MEASURES WILL NEED TO BE TAKEN.</p>	<p>STATE PENNSYLVANIA NAME: CONESTOGA FORMATION GEOLOGIC AGE: ORDOVICIAN AND CAMBRIAN ORIGINAL MAP LABEL: C-3 PRIMARY ROCK TYPE: LIMESTONE SECONDARY ROCK TYPE: SHALE CONGLOMERATIC LIMESTONE, PHYLLITE</p>

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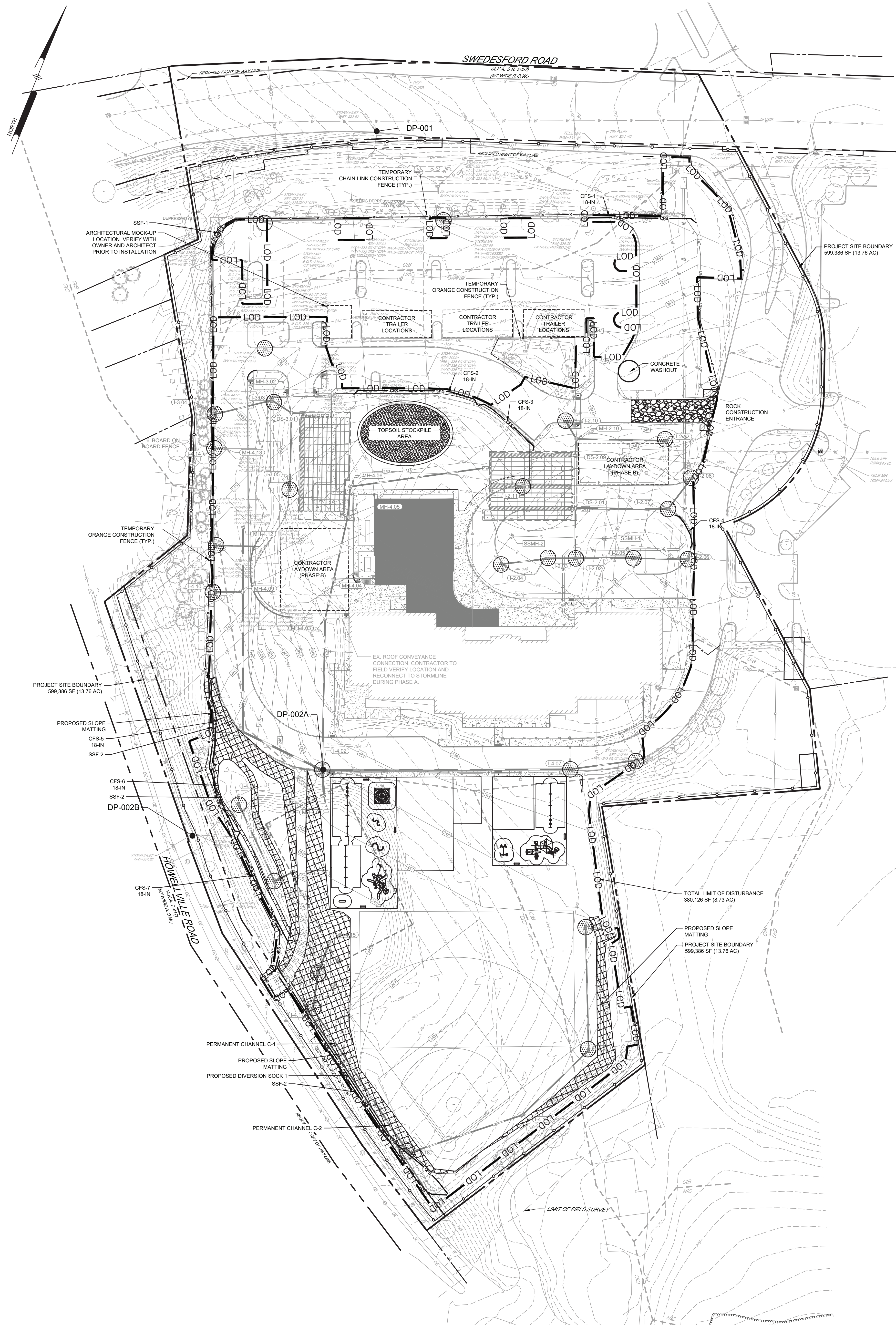
ISSUE HISTORY		
Δ	DATE	ISSUED FOR
	2025-03-28	BID ISSUE

SHEET TITLE
SITE CIVIL
EROSION AND
SEDIMENTATION
CONTROL PLAN-
PHASE B
DRAWING NUMBER

CS8002



NOT FOR CONSTRUCTION



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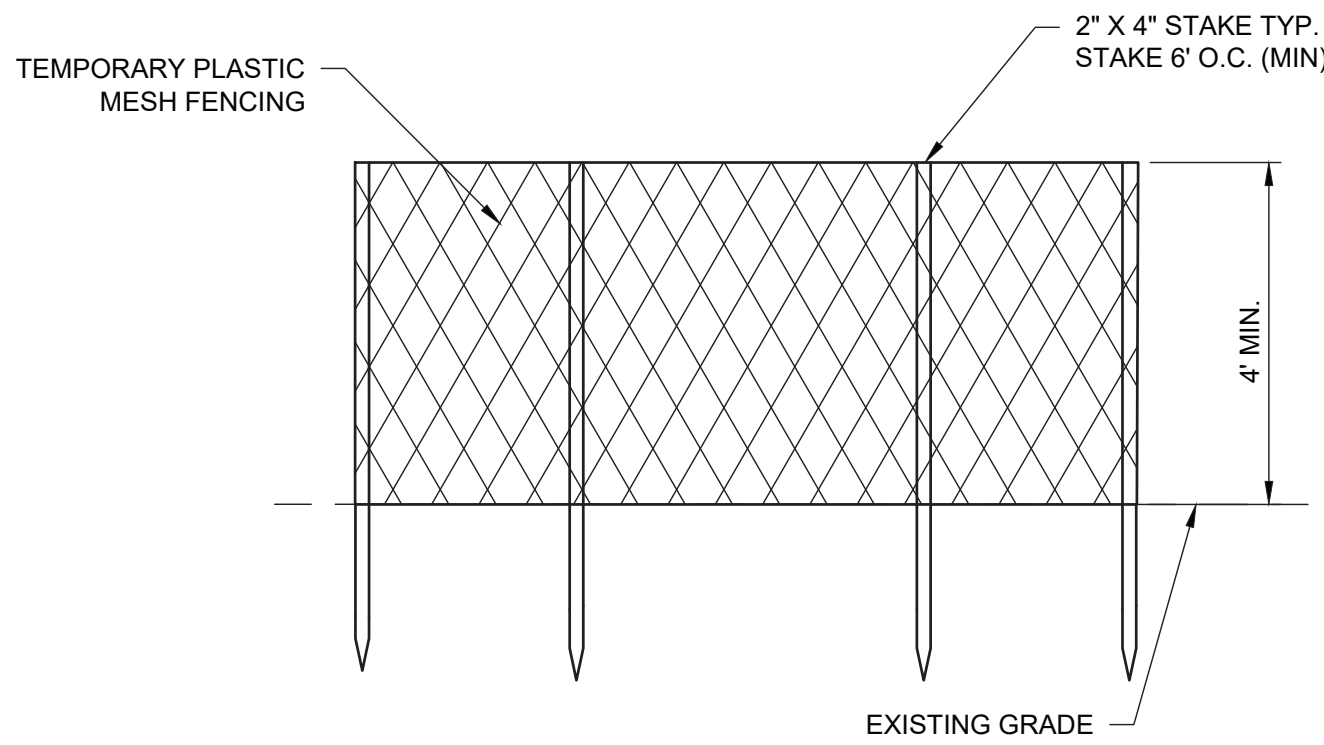
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158 W Gay Street, Suite 300
West Chester, PA 19380
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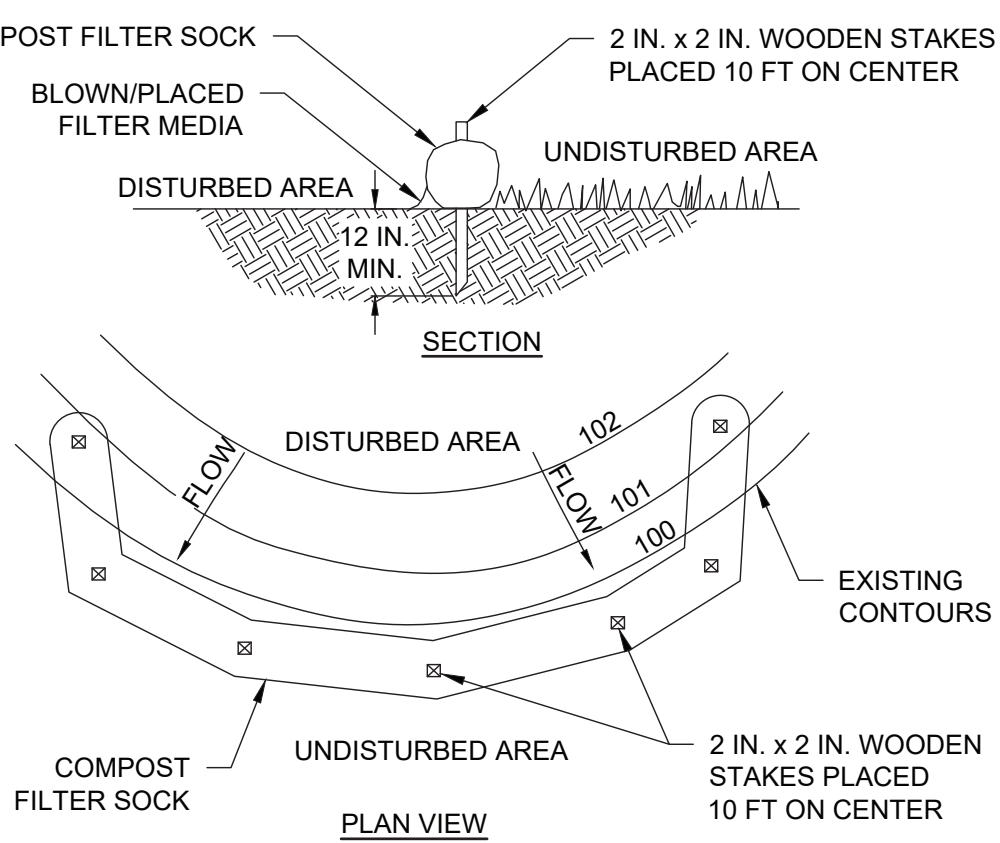
FOOD SERVICE
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610-541-822

NOT FOR
CONSTRUCTION



ORANGE CONSTRUCTION FENCE

NOT TO SCALE



COMPOST FILTER SOCKS				
SOCK NO.	DIA. (INCH)	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
CFS-1	18	NORTH EAST OF SUBSURFACE BASIN 2.0	3.5	476
CFS-2	18	NORTH WEST OF SUBSURFACE BASIN 2.0	1.6	287
CFS-3	18	NORTH WEST OF SUBSURFACE BASIN 2.0	2.2	233
CFS-4	18	SOUTH EAST OF SUBSURFACE BASIN 2.0	5.3	106
CFS-5	18	SOUTH WEST OF SUBSURFACE BASIN 3.0	5.9	175
CFS-6	18	WEST OF SUBSURFACE BASIN 4.0	5.1	207
CFS-7	18	SOUTH OF SUBSURFACE BASIN 4.0	1.2	112

NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

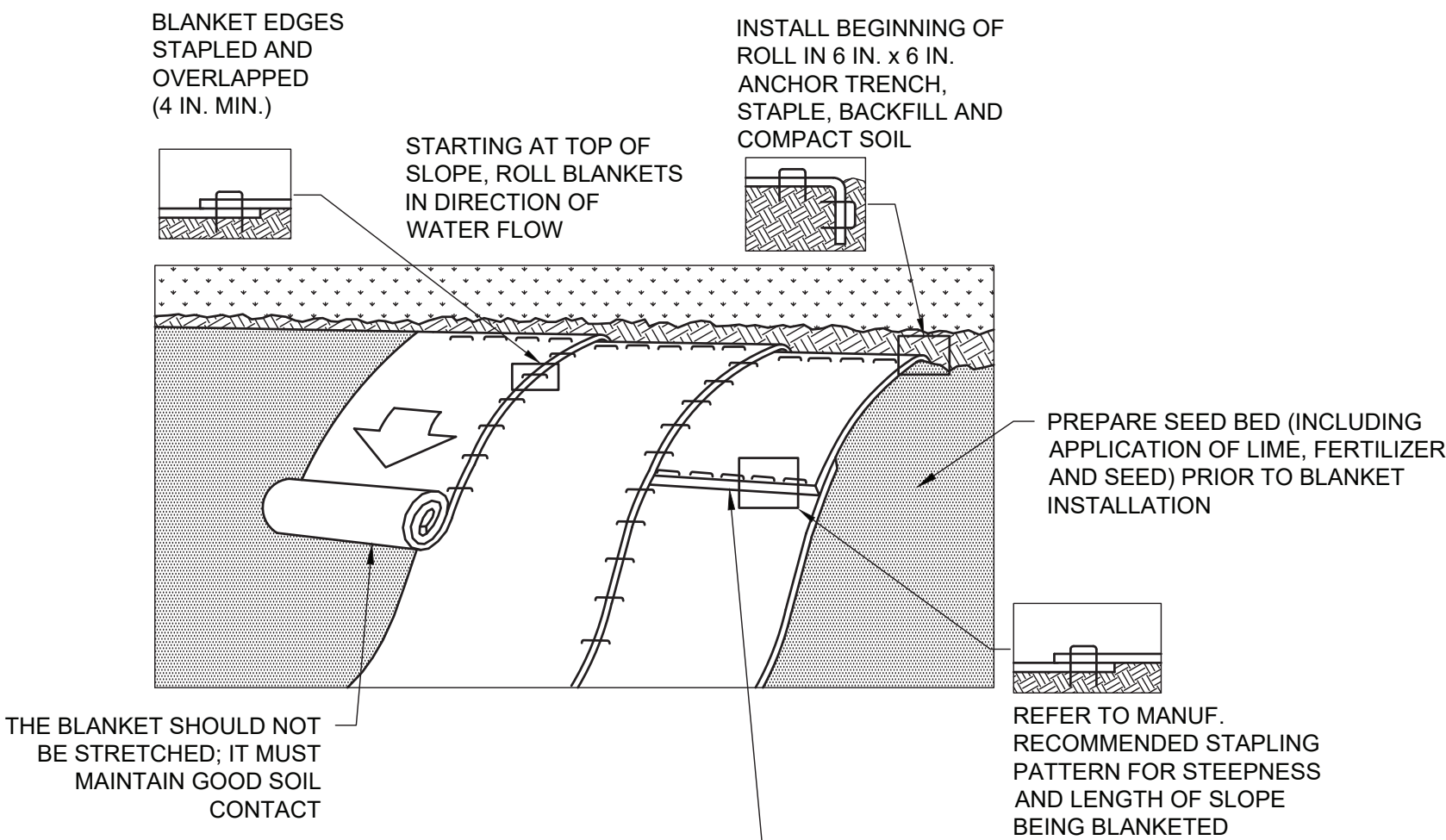
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCK

NTS STANDARD CONSTRUCTION DETAIL #4-1



NOTES:

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

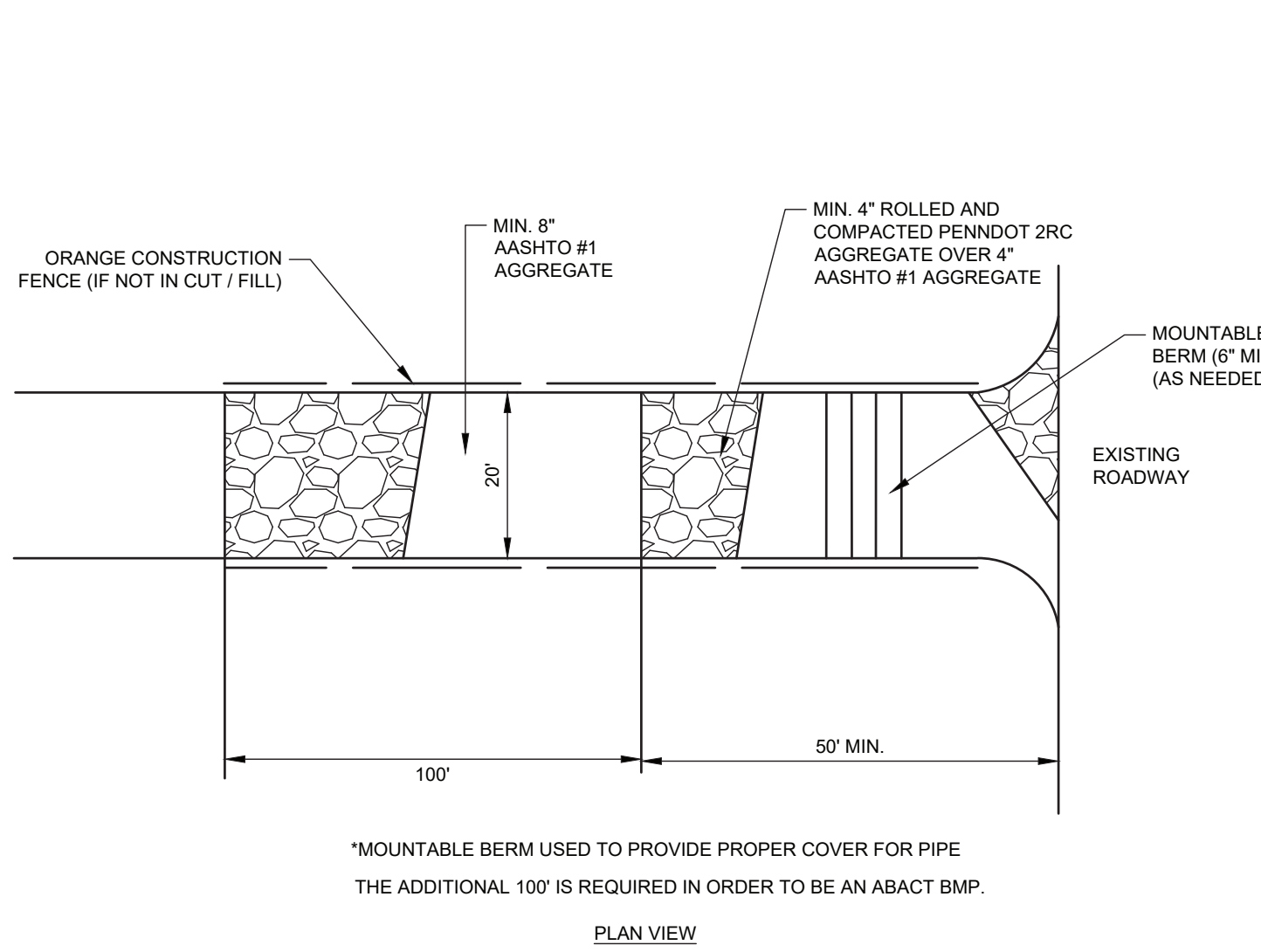
BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

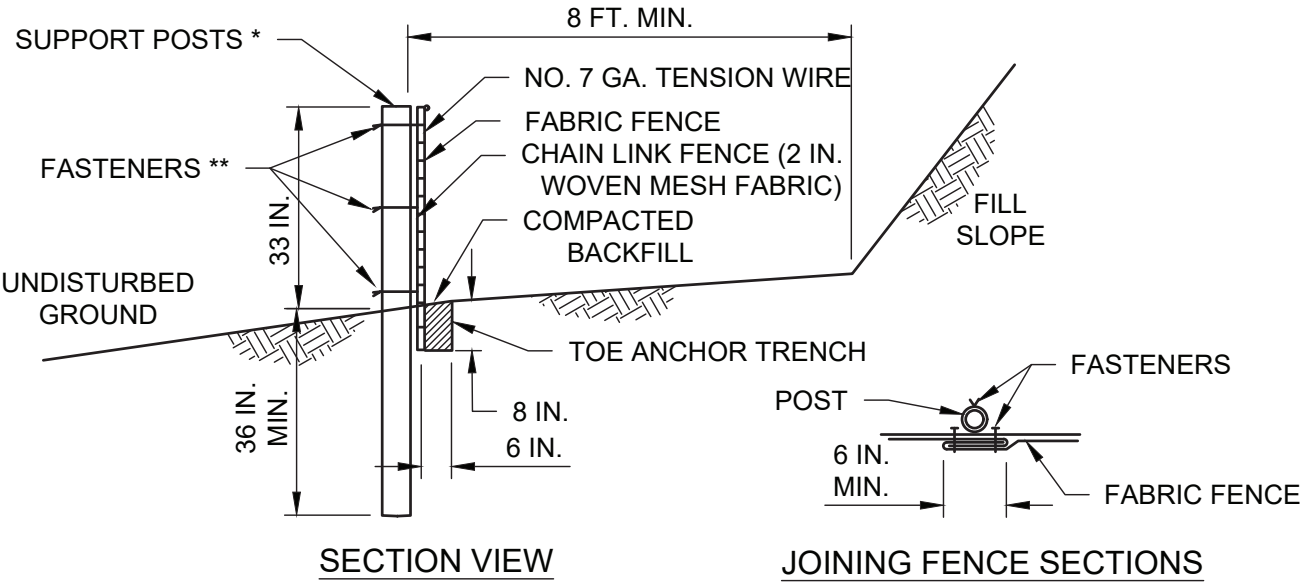
EROSION CONTROL BLANKET INSTALLATION

NTS STANDARD CONSTRUCTION DETAIL #11-1



ALTERNATE ROCK CONSTRUCTION ENTRANCE

NTS



* POSTS SPACED AT 10 FT. MAX. USE 2-1/2 IN. DIA HEAVY DUTY GALVANIZED OR ALUMINUM POSTS.

** CHAIN LINK TO POST FASTENERS SPACED AT 14 IN. MAX. USE NO. 9 GA. ALUMINUM WIRE OR NO. 9 GALVANIZED STEEL WIRE. FABRIC TO SHAFT FASTENERS SPACED AT 24 IN. MAX. ON CENTER.

NOTES:

FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.

FABRIC WIDTH SHALL BE 42 IN. MINIMUM.

POSTS SHALL BE INSTALLED USING A POSTHOLE DRILL.

CHAIN LINK SHALL BE GALVANIZED NO. 11.5 GA. STEEL WIRE WITH 2-1/4 IN. OPENING, NO. 11 GA. ALUMINUM COATED STEEL WIRE IN ACCORDANCE WITH ASTM-A-491, OR GALVANIZED NO. 9 GA. STEEL WIRE TOP AND BOTTOM WITH GALVANIZED NO. 11 GA. STEEL INTERMEDIATE WIRES. NO. 7 GAGE TENSION WIRE TO BE INSTALLED HORIZONTALLY THROUGH HOLES AT TOP AND BOTTOM OF CHAIN-LINK FENCE OR ATTACHED WITH HOG RINGS AT 5 FT MAX. CENTERS.

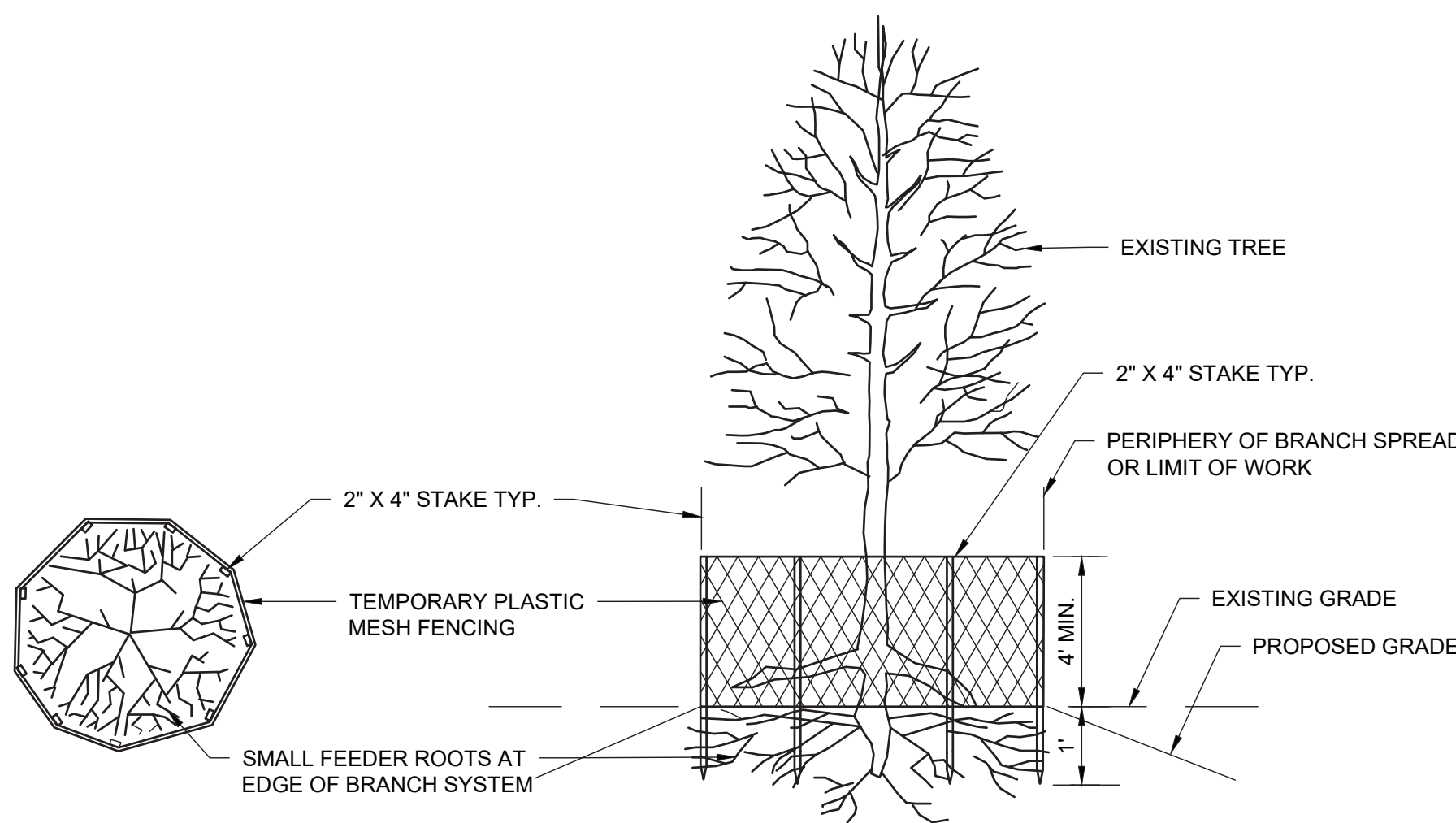
SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

SUPER SILT FENCE

NOT TO SCALE



NOTES:

1. THOSE TREES WHICH ARE WITHIN TWENTY-FIVE (25) FEET OF ANY PROPOSED EXCAVATION OR GRADING OPERATION, OR IN ANY OTHER LOCATION DEEMED APPROPRIATE BY THE ENGINEER, SHALL BE PROTECTED BY INSTALLING AND MAINTAINING A FENCE AT THE DRIP LINE.

2. NO BOARDS OR OTHER MATERIAL SHALL BE NAILED TO TREES DURING CONSTRUCTION.

3. HEAVY EQUIPMENT OPERATORS SHALL AVOID DAMAGING EXISTING TREE TRUNKS AND ROOTS. FEEDER ROOTS SHALL NOT BE CUT CLOSER THAN TWENTY-FIVE (25) FEEE FROM TREE TRUNKS.

4. TREE TRUNKS AND EXPOSED ROOTS DAMAGED DURING CONSTRUCTION SHALL BE PROTECTED FROM FURTHER DAMAGE BY BEING TREATED IMMEDIATELY.

5. TREE LIMBS DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY PRUNED ANDTREATED IMMEDIATELY.

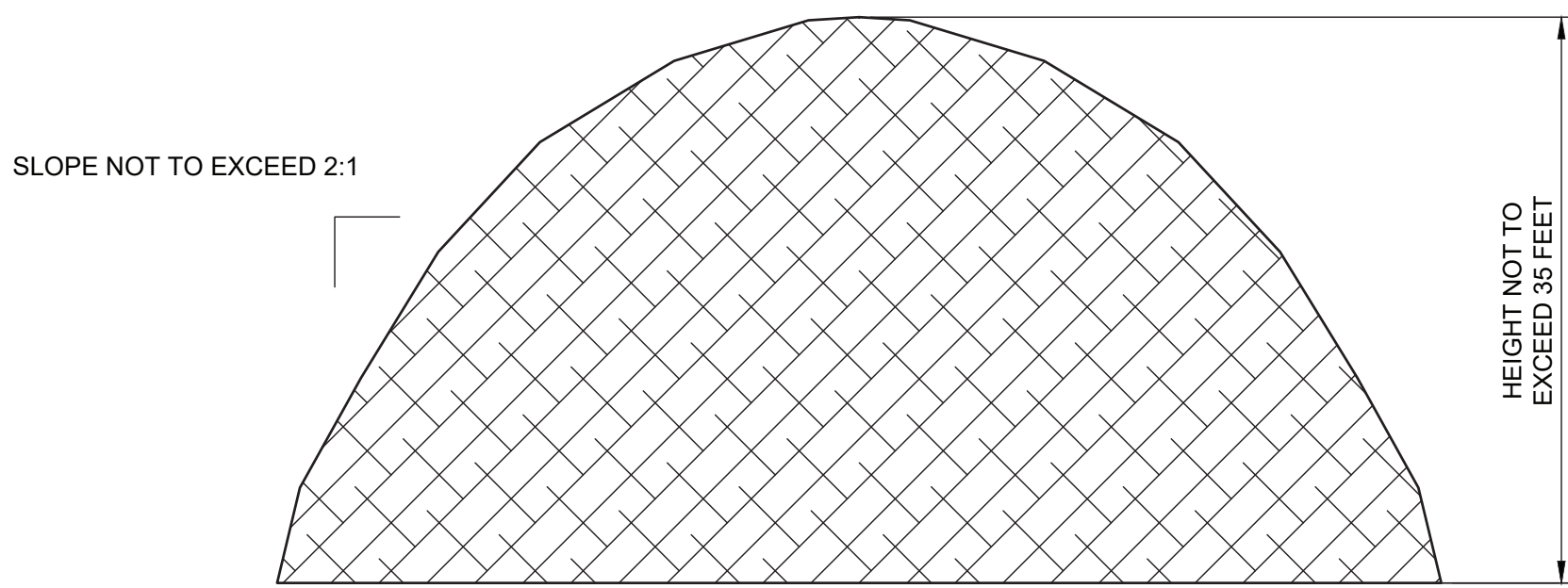
6. THE OPERATION OF HEAVY EQUIPMENT OVER ROOT SYSTEMS OF SUCH TREES SHALLBE MINIMIZED IN ORDER TO PREVENT SOIL COMPACTION.

7. DAMAGED TREES SHALL BE FERTILIZED TO AID IN THEIR RECOVERY.

8. CONSTRUCTION DEBRIS SHALL NOT BE DISPOSED OF NEAR OR AROUND TREES.

TREE PROTECTION FENCE

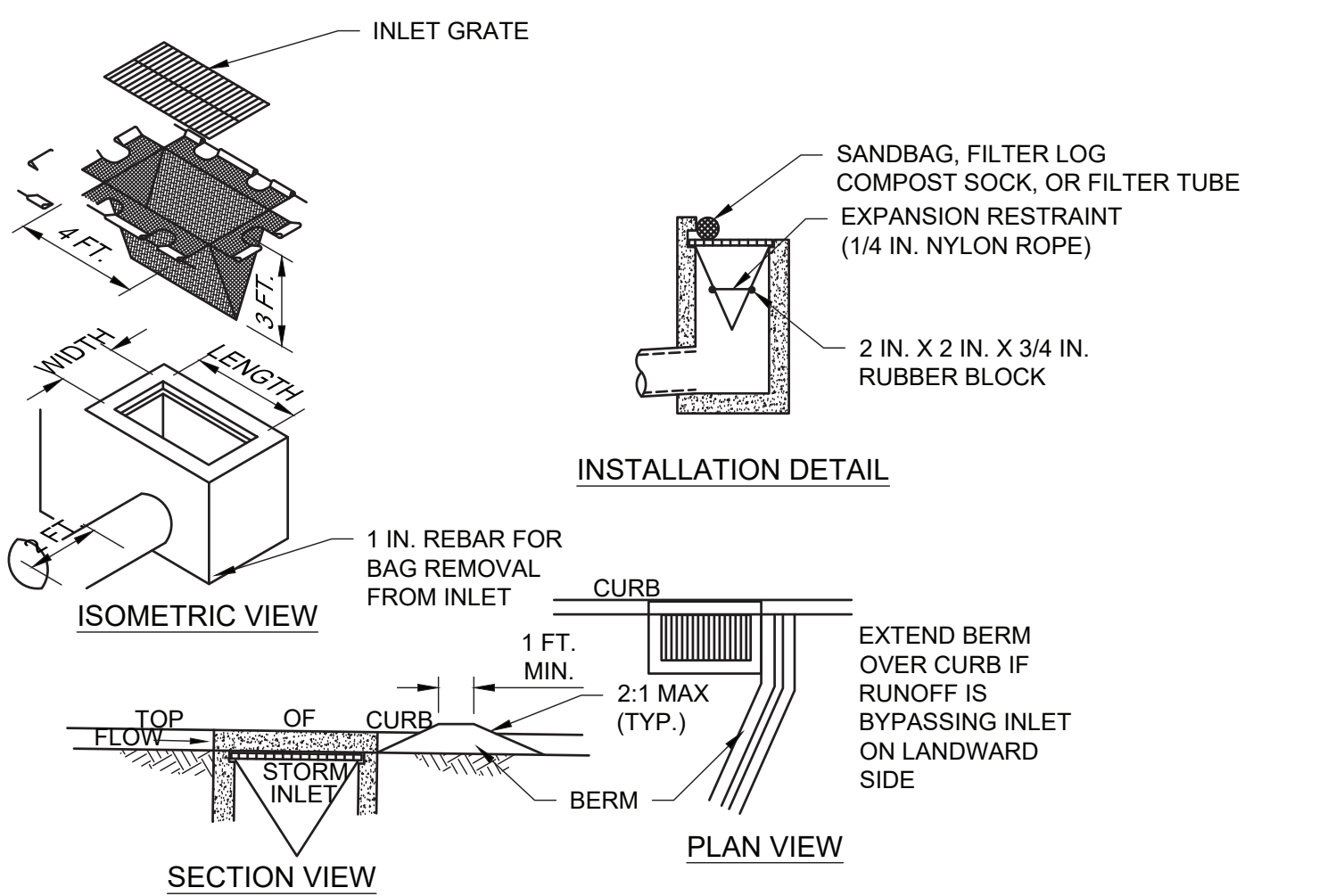
NTS



NOTE:
1. TEMPORARY TOP SOIL STOCKPILE IS TO BE SURROUNDED BY 24" COMPOST FILTER SOCK ON DOWNGRADE SIDE.
2. IMMEDIATELY APPLY TEMPORARY SEEDING TO ALL STOCKPILES

TOPSOIL STOCKPILE

NTS



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

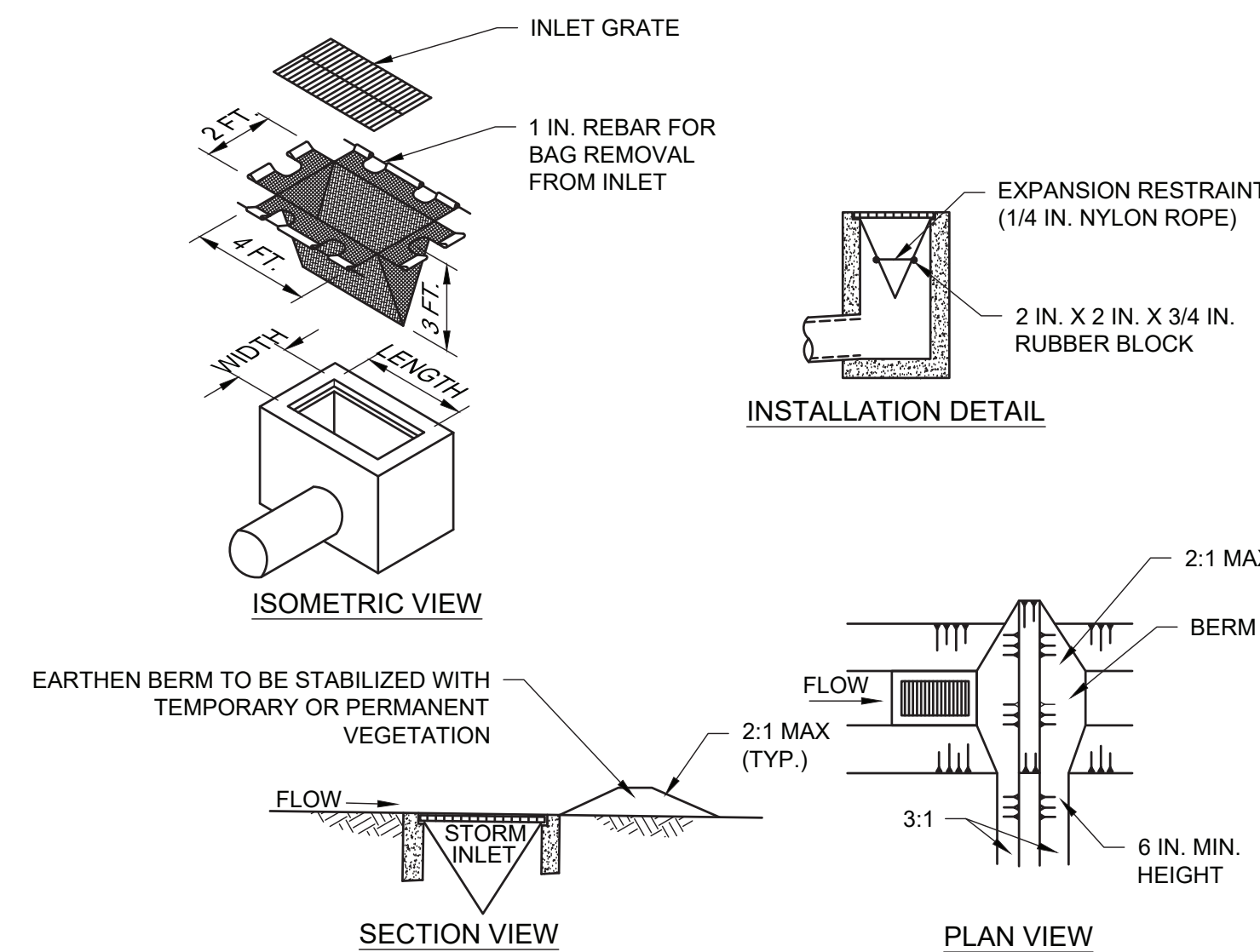
ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS, A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER BAG INLET PROTECTION- TYPE C INLET

NTS STANDARD CONSTRUCTION #4-15



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

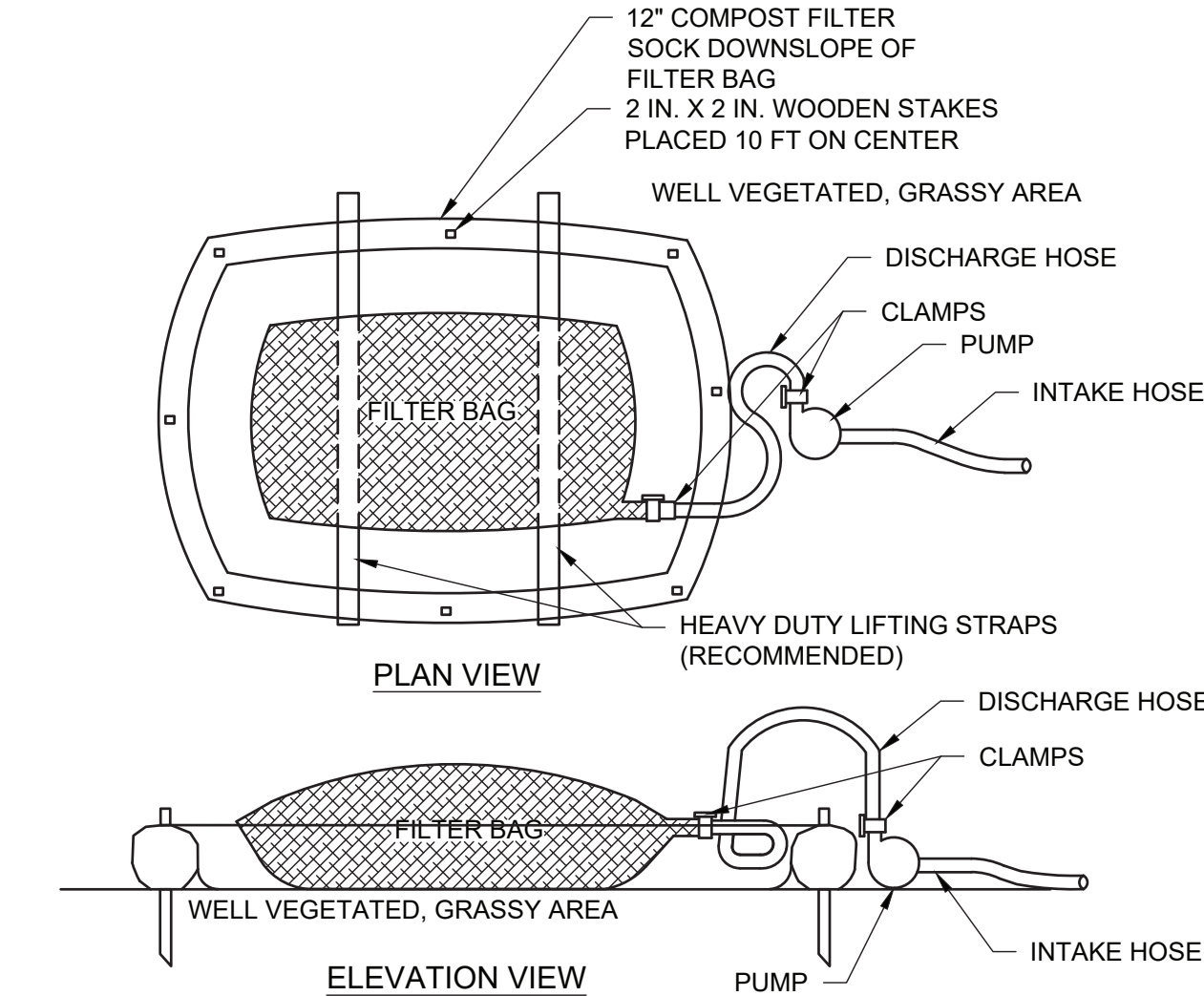
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INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

FILTER INLET PROTECTION - TYPE M INLET

NTS STANDARD CONSTRUCTION DETAIL #4-16



NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4854	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
ACS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%. CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

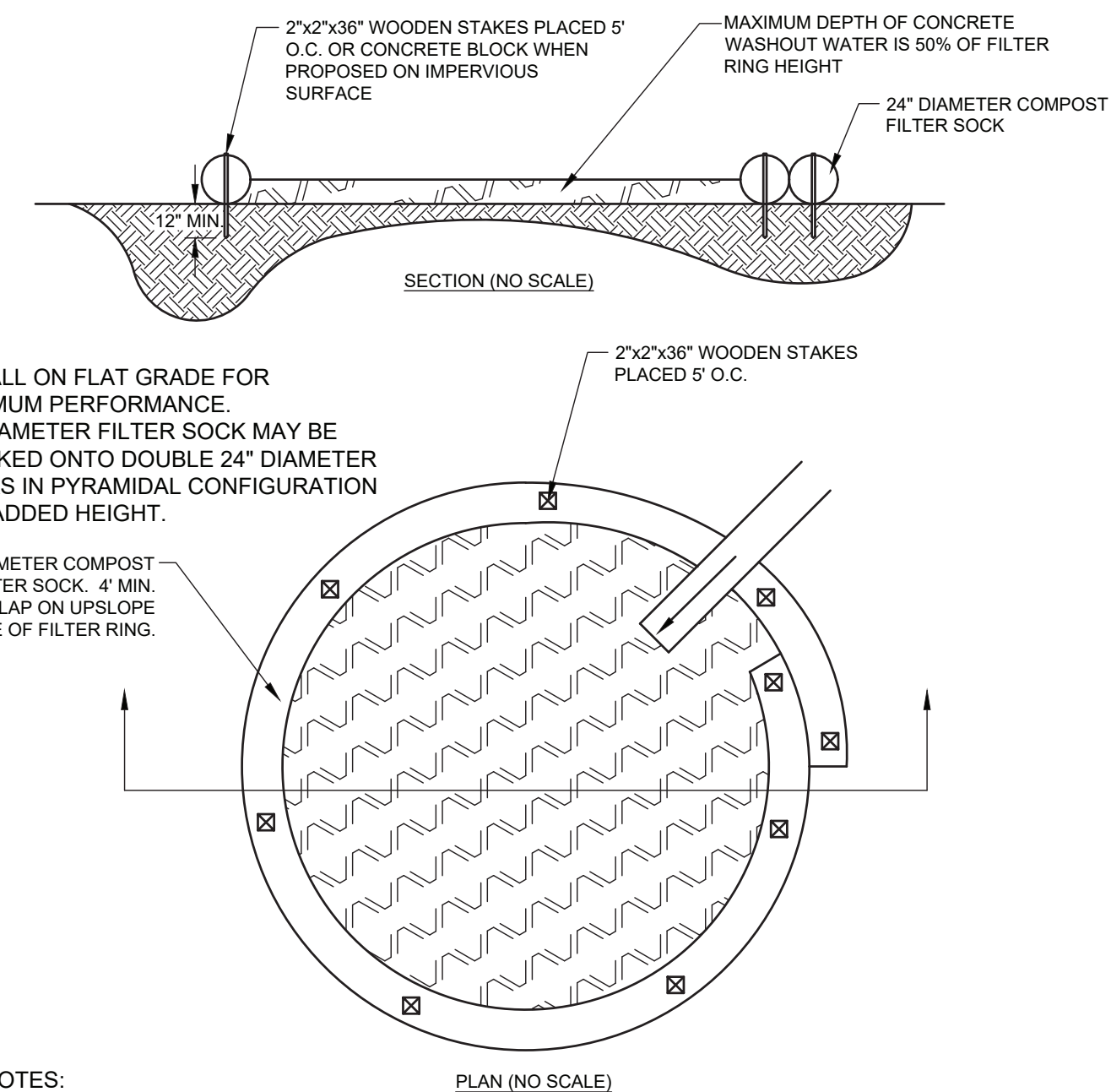
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

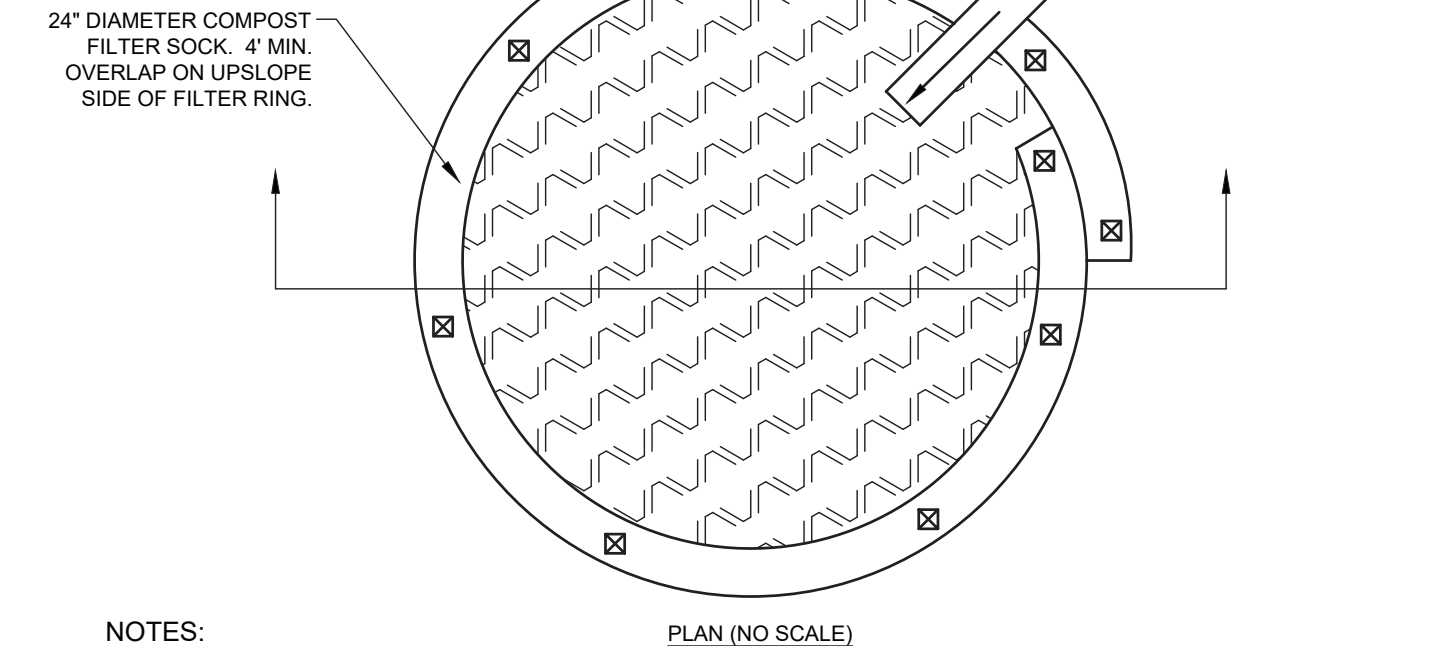
PUMPED WATER FILTER BAG

NTS STANDARD CONSTRUCTION DETAIL #3-16



NOTES:

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.



NOTES:

1. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
2. WHENEVER COMPOST SOCK WASHOUTS ARE USED, A SUITABLE IMPERVIOUS GEOMEMBRANE SHOULD BE PLACED AT THE LOCATION OF THE WASHOUT. COMPOST SOCKS SHOULD BE STAKED IN THE MANNER RECOMMENDED BY THE MANUFACTURER AROUND THE PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITH THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER (AS SHOWN ABOVE). CARE SHOULD BE TAKEN TO ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS. WHERE NECESSARY, SOCKS MAY BE STACKED AND STAKED SO AS TO FORM A TRIANGULAR CROSS SECTION.
3. ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

TYPICAL COMPOST SOCK/ CONCRETE WASHOUT

NTS STANDARD CONSTRUCTION DETAIL #4-16

ISSUE HISTORY

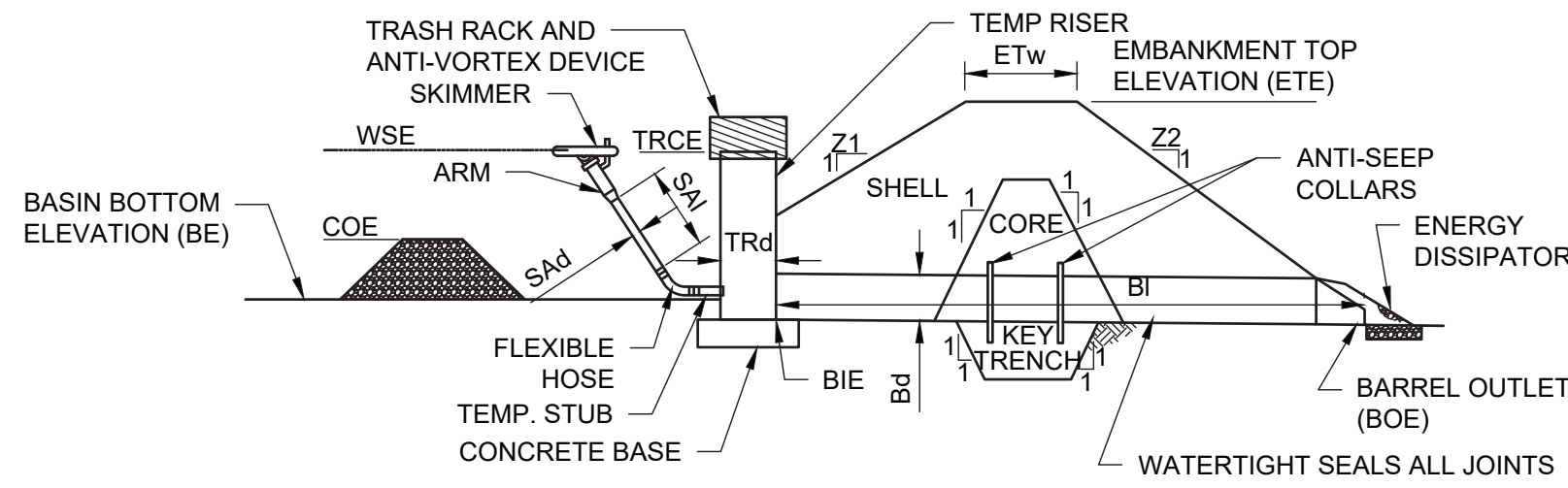
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2025-03-28 BID ISSUE

SHEET TITLE
SITE CIVIL

EROSION AND
SEDIMENTATION
CONTROL DETAILS
DRAWING NUMBER

CS8502



BASIN NO.	Z1 (FT)	Z2 (FT)	TEMPORARY RISER			MATL	DIA Bd (IN)	INLET ELEV BE (FT)	BARREL		OUTLET ELEV BOE (FT)
			DIA TRd (IN)	CREST ELEV TRCE (FT)	KEY TRENCH DEPTH (FT)				MATL	LENGTH (FT)	
1	3	3	30	233.50	CMP		18	229.50	RCP	92	225.90

TOP ELEV ETE (FT)	TOP WIDTH (FT)	KEY TRENCH DEPTH (FT)	EMBANKMENT		CLEANOUT ELEV COE (FT)	BOTTOM ELEV BE (FT)	DIA Sd (IN)	LENGTH SAI (FT)	MATL
			TRd	ETw					
238.30	10	2	4		230.50	229.50	4	7	PVC

NOTES:

SEDIMENT BASINS, INCLUDING ALL APPURTENANT WORKS, SHALL BE CONSTRUCTED TO THE DETAIL AND DIMENSIONS SHOWN ON THE E&S PLAN DRAWINGS.

AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO A DEPTH OF TWO FEET PRIOR TO ANY PLACEMENT AND COMPACTION OF EARTHEN FILL. FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS. THE EMBANKMENT SHALL BE COMPACTED IN LAYERED LIFTS OF NOT MORE THAN 6 TO 9 IN. THE MAXIMUM ROCK SIZE SHALL BE NO GREATER THAN 2/3 THE LIFT THICKNESS. UPON COMPLETION, THE EMBANKMENT SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED ACCORDING TO THE SPECIFICATIONS OF THE E&S PLAN DRAWINGS. TREES SHALL NOT BE PLANTED ON THE EMBANKMENT.

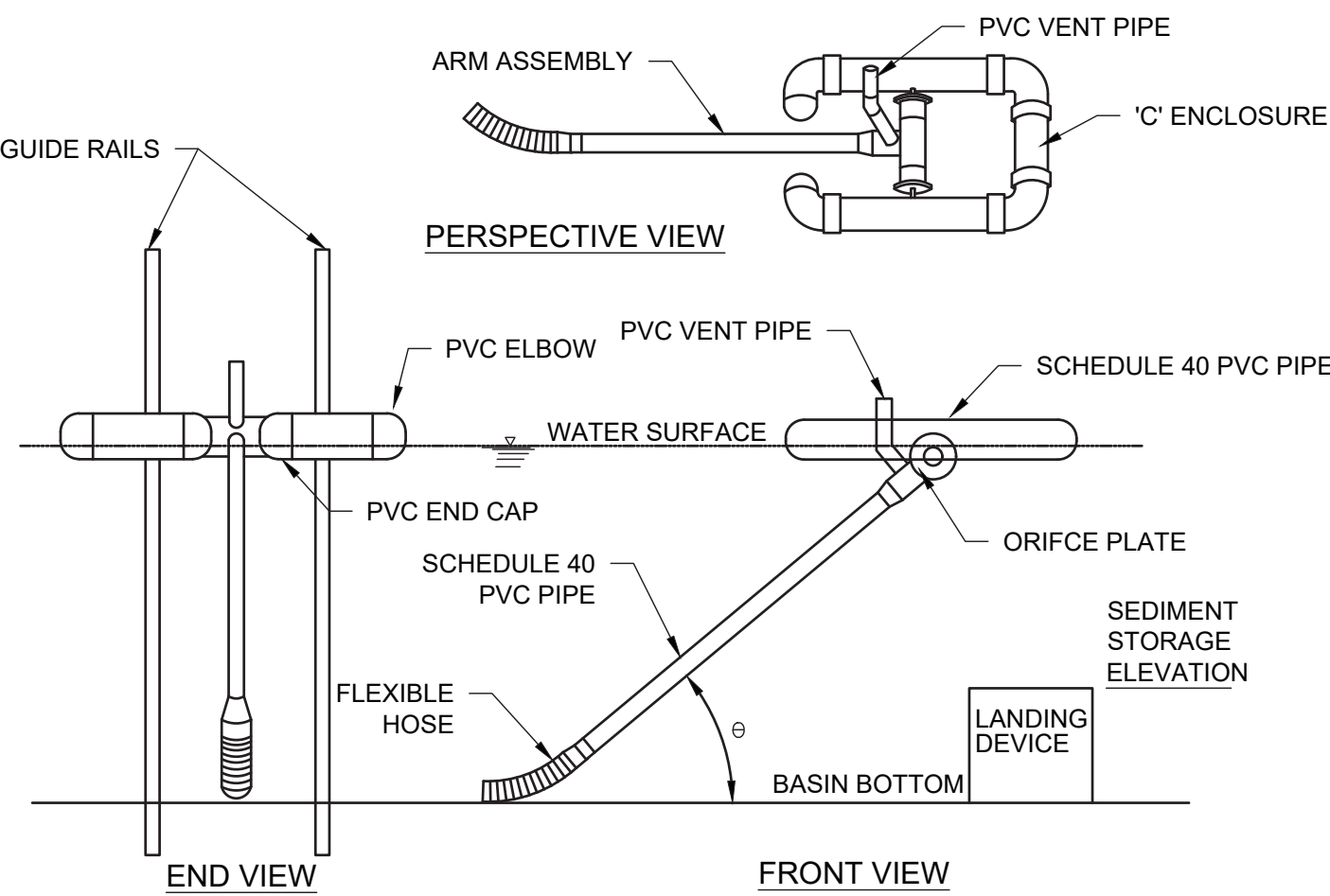
ACCESS SHALL BE PROVIDED FOR SEDIMENT REMOVAL AND OTHER REQUIRED MAINTENANCE ACTIVITIES.

A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH BASIN. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE BASIN IN THE MANNER DESCRIBED IN THE E&S PLAN.

INSPECT ALL SEDIMENT BASINS ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. CHECK BASIN EMBANKMENTS, SPILLWAYS, AND OUTLETS FOR EROSION, PIPING AND SETTLEMENT. NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY. DISPLACED RIPRAP WITHIN THE OUTLET ENERGY DISSIPATOR SHALL BE REPLACED IMMEDIATELY. ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISTURBED AREAS SHALL BE STABILIZED INSIDE THE BASIN BEFORE CONVERSION TO A STORMWATER MANAGEMENT FACILITY. THE DEVICE SHOWN IN STANDARD CONSTRUCTION DETAIL #7-16 MAY BE USED TO DEWATER SATURATED SEDIMENT PRIOR TO ITS REMOVAL. ROCK FILTERS SHALL BE ADDED AS NECESSARY.

SEDIMENT BASIN WITH PERFORATED RISER

NTS STANDARD CONSTRUCTION DETAIL #7-6



BASIN NO.	WATER SURFACE ELEVATION (FT)	ARM LENGTH (FT)	ARM DIA. (IN)	ORIFICE DIA. (IN)	TOP OF LANDING DEVICE ELEVATION (FT)	FLEXIBLE HOSE LENGTH (IN)	FLEXIBLE HOSE ATTACHMENT ELEVATION (FT)
BASIN 1	234.50	7	4	3.3	230.50	24	229.50

NOTES:

ORIFICE DIAMETER MUST BE EQUAL TO OR LESS THAN ARM DIAMETER

A ROPE SHALL BE ATTACHED TO THE SKIMMER ARM TO FACILITATE ACCESS TO THE SKIMMER ONCE INSTALLED.

SKIMMER SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.

ANY MALFUNCTIONING SKIMMER SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION.

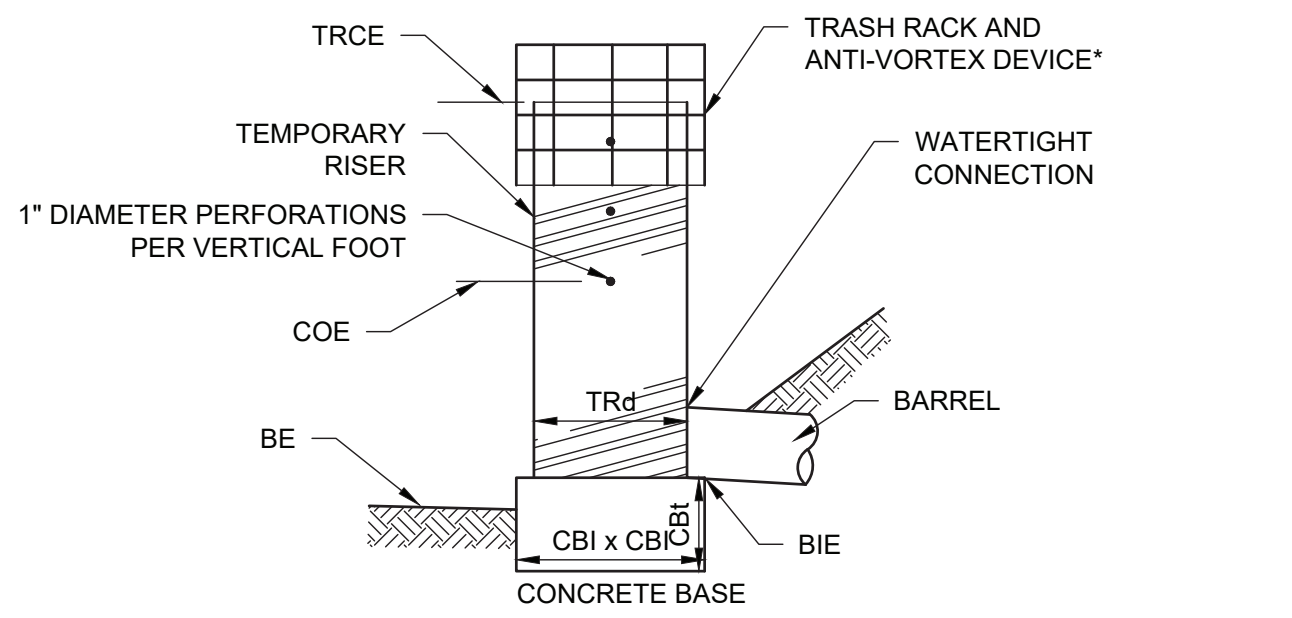
ICE OR SEDIMENT BUILDUP AROUND THE PRINCIPAL SPILLWAY SHALL BE REMOVED SO AS TO ALLOW THE SKIMMER TO RESPOND TO FLUCTUATING WATER ELEVATIONS.

SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES THE LEVEL MARKED ON THE SEDIMENT CLEAN-OUT STAKE OR THE TOP OF THE LANDING DEVICE.

A SEMI-CIRCULAR LANDING ZONE MAY BE SUBSTITUTED FOR THE GUIDE RAILS (STANDARD CONSTRUCTION DETAIL # 7-3).

SKIMMER

NTS STANDARD CONSTRUCTION DETAIL #7-1



* SEE STANDARD CONSTRUCTION DETAIL #7-5, TRASH RACK AND ANTI-VORTEX DEVICE

** LOWEST HOLE AT SEDIMENT CLEAN-OUT ELEVATION

TRAP NO.	DIA TRd (IN)	TEMPORARY RISER		CLEAN OUT ELEV. COE (FT)	CONCRETE BASE			INLET ELEV BIE (FT)
		CREST ELEV TRCE (FT)	MATL		LENGTH CBI (IN)	WIDTH CBIW (IN)	THICK. CBI (IN)	
BASIN 1	30	233.50	CMP	230.50	36	36	6	229.50

NOTES:

A MINIMUM OF 2-#6 REBAR SHALL BE PLACED AT RIGHT ANGLES AND PROJECTING THROUGH SIDES OF RISER TO ANCHOR IT TO CONCRETE BASE. REBAR SHALL PROJECT A MINIMUM OF 1/4 RISER DIAMETER BEYOND OUTSIDE OF RISER.

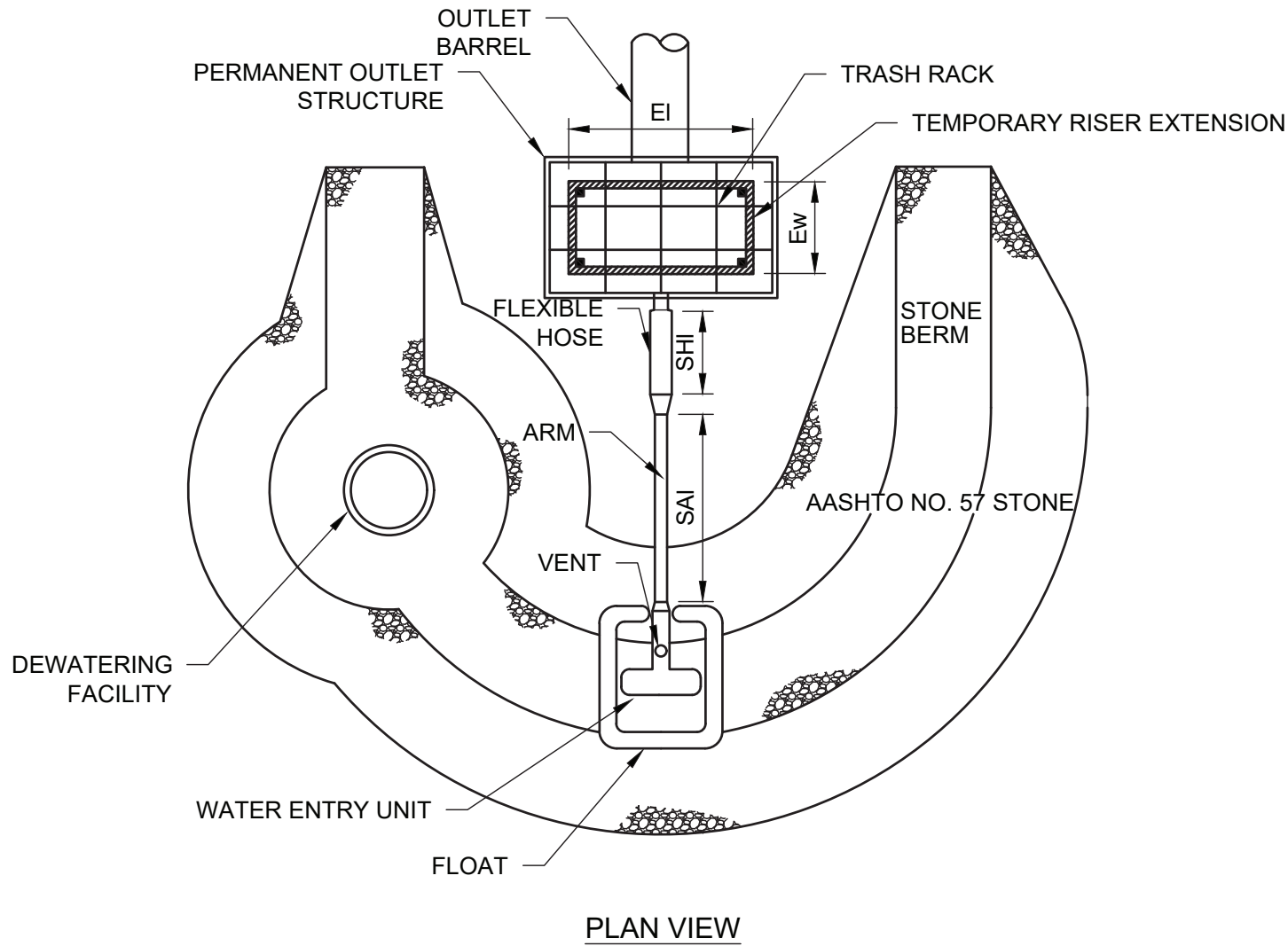
CONCRETE BASE SHALL BE POURED IN SUCH A MANNER SO AS TO INSURE THAT CONCRETE FILLS BOTTOM OF RISER TO INVERT OF THE OUTLET PIPE TO PREVENT RISER FROM BREAKING AWAY FROM THE BASE. MINIMUM BASE WIDTH EQUALS 2 TIMES RISER DIAMETER

EMBEDDED SECTION OF ALUMINUM OR ALUMINIZED PIPE SHALL BE PAINTED WITH ZINC CHROMATE OR EQUIVALENT.

CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER.

SEDIMENT BASIN TEMPORARY RISER

NTS STANDARD CONSTRUCTION DETAIL #8-3



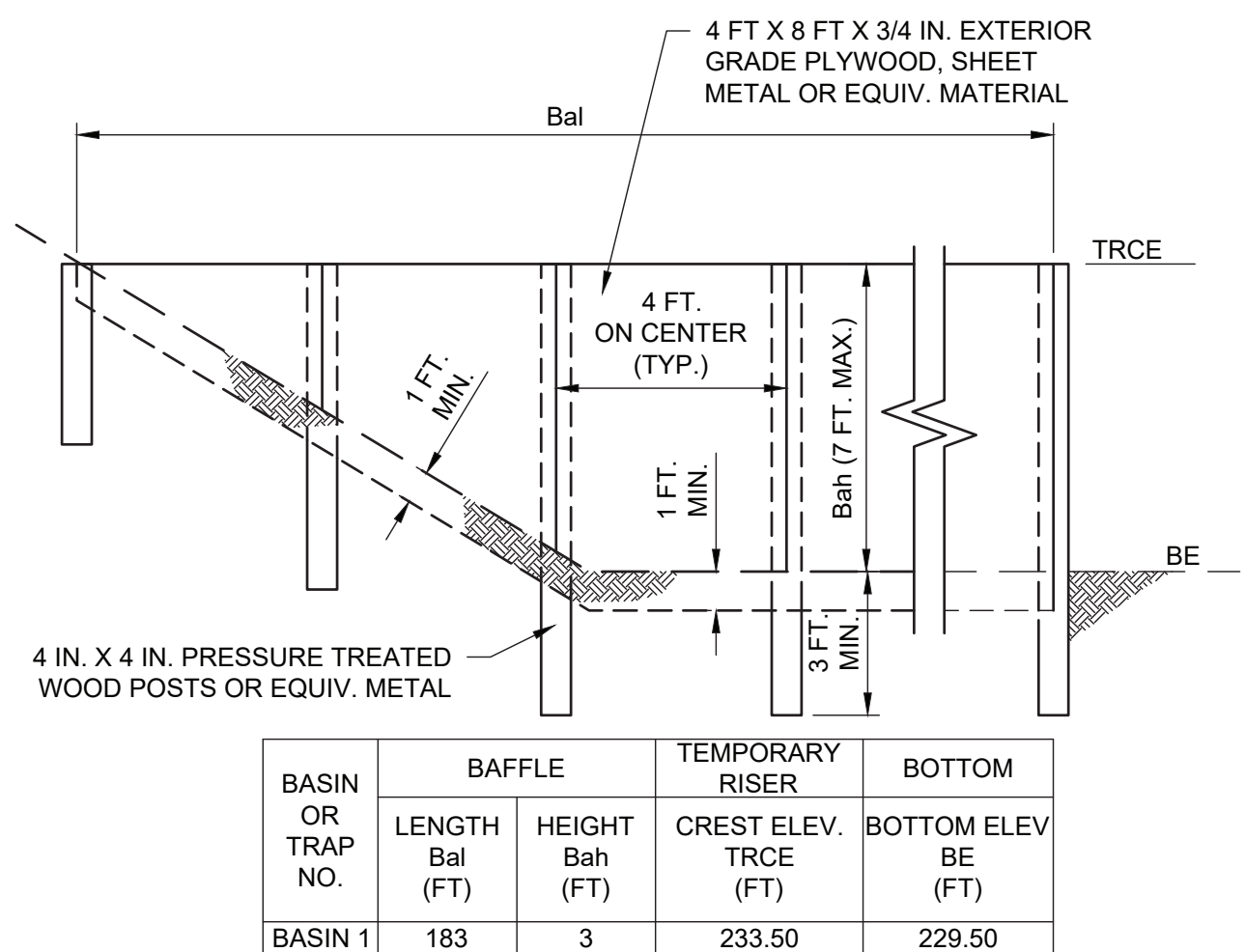
NOTES:

NO GUIDE RAILS SHALL BE REQUIRED FOR THIS INSTALLATION.

THIS DETAIL SHALL BE USED IN CONJUNCTION WITH STANDARD CONSTRUCTION DETAILS #7-2 AND #7-4.

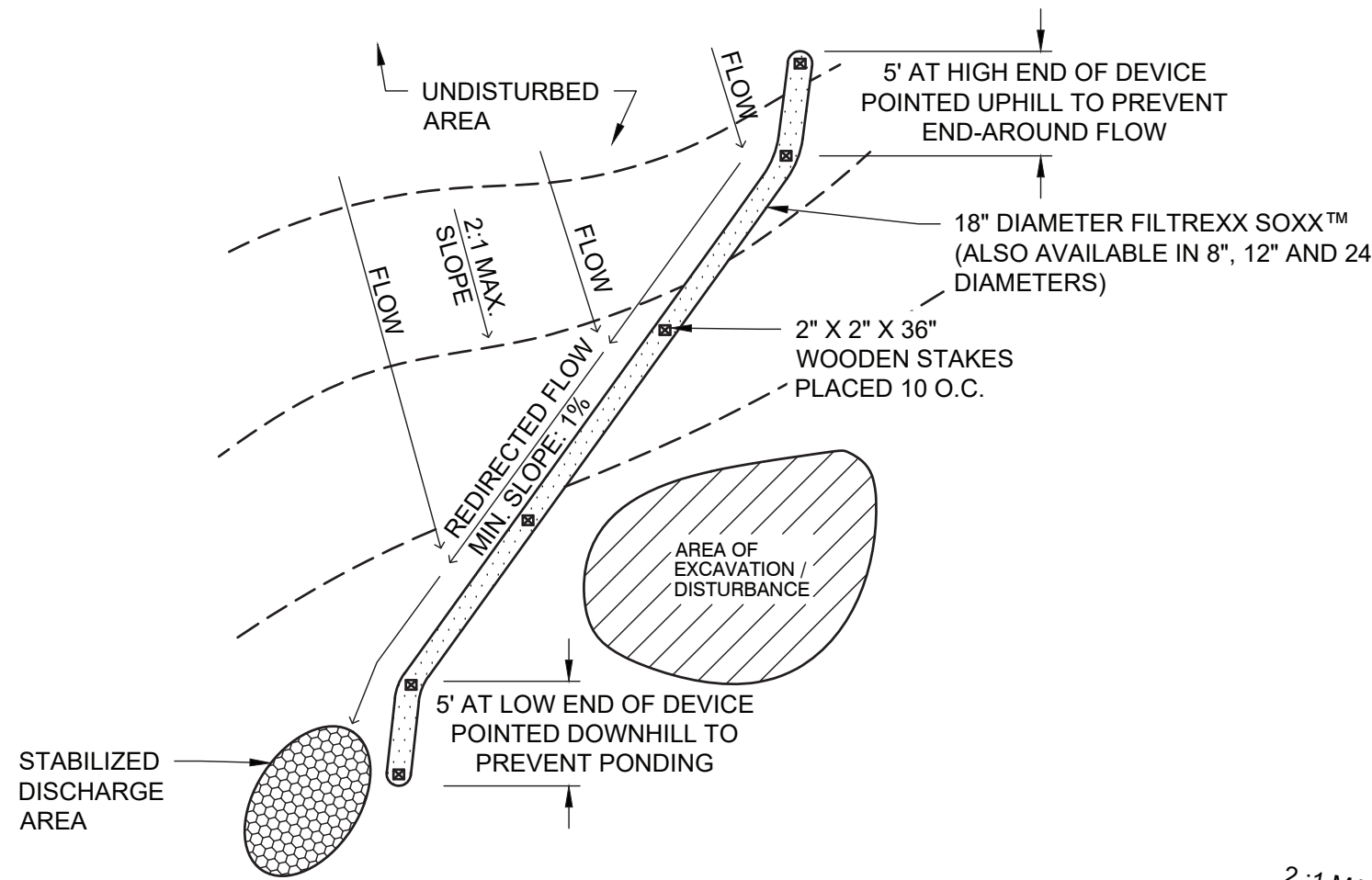
SKIMMER WITH STONE LANDING BERM

NTS STANDARD CONSTRUCTION DETAIL #7-3



BAFFLE

NTS STANDARD CONSTRUCTION DETAIL #7-14



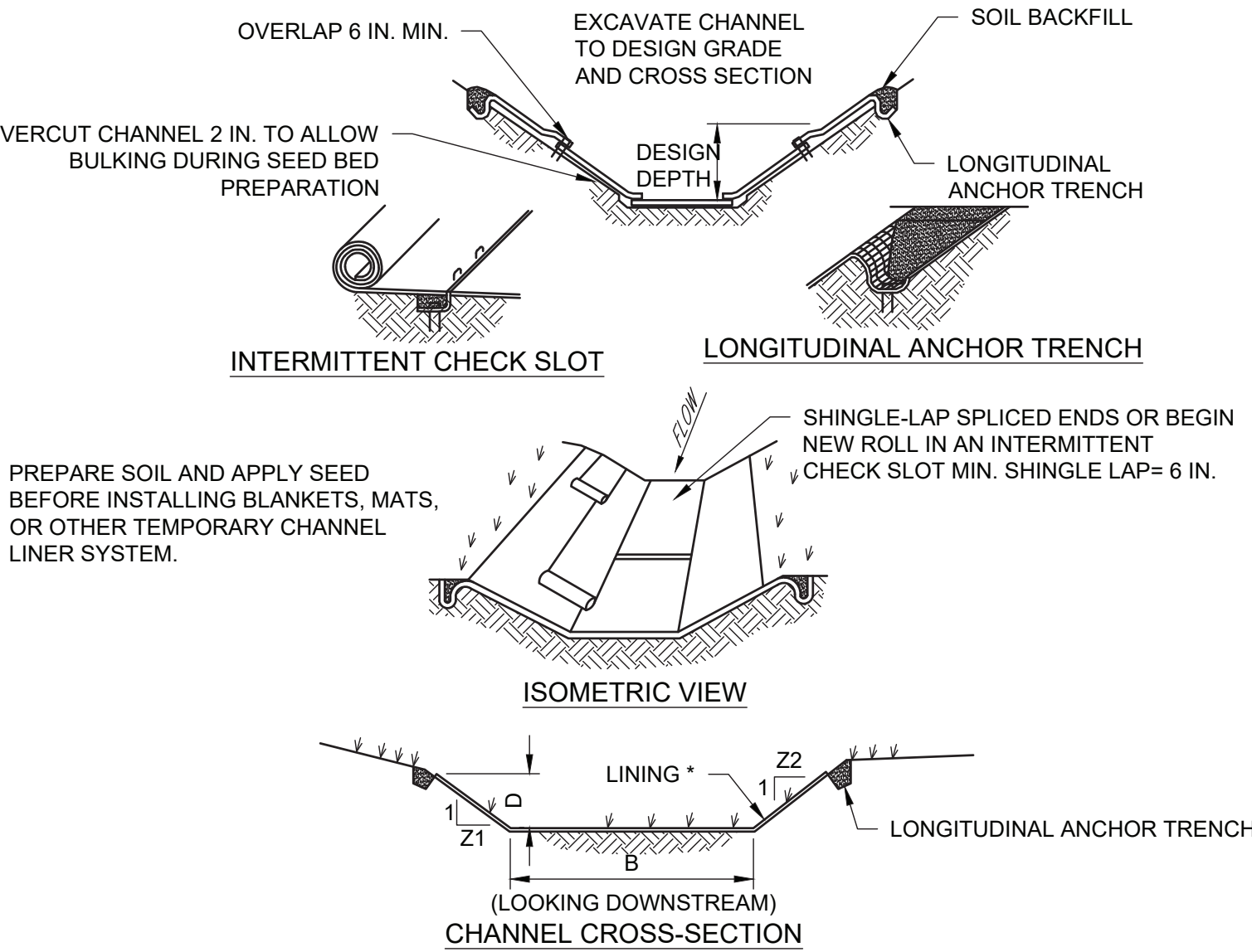
NOTES:

- REMOVE SEDIMENT FROM THE UPSLOPE SIDE OF THE SOXX™ WHEN ACCUMULATION HAS REACHED 1/2 OF EFFECTIVE HEIGHT OF SOXX™
- SLOPES GREATER THAN 5% MAY REQUIRE ADDITIONAL STABILIZATION PRACTICES
- SOXX™ MAY BE SEEDED AT THE TIME OF INSTALLATION
- FILTREXX FILTER SOXX NEEDS TO BE FILLED WITH FILTREXX CERTIFIED GROWING MEDIA

DIVERSION SOCKS			
SOCK NO.	DIA. (INCH)	LOCATION	SLOPE PERCENT
DS-1	18	WEST OF ATHLETIC FIELDS	5.0

DIVERSION SOCK DETAIL

NOT TO SCALE



* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

CHANNEL NO.	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING *
C-1	3	0.59	6.54	50	3	S150BN
C-2	3	0.67	7.02	3	50	S150GN

NOTES:

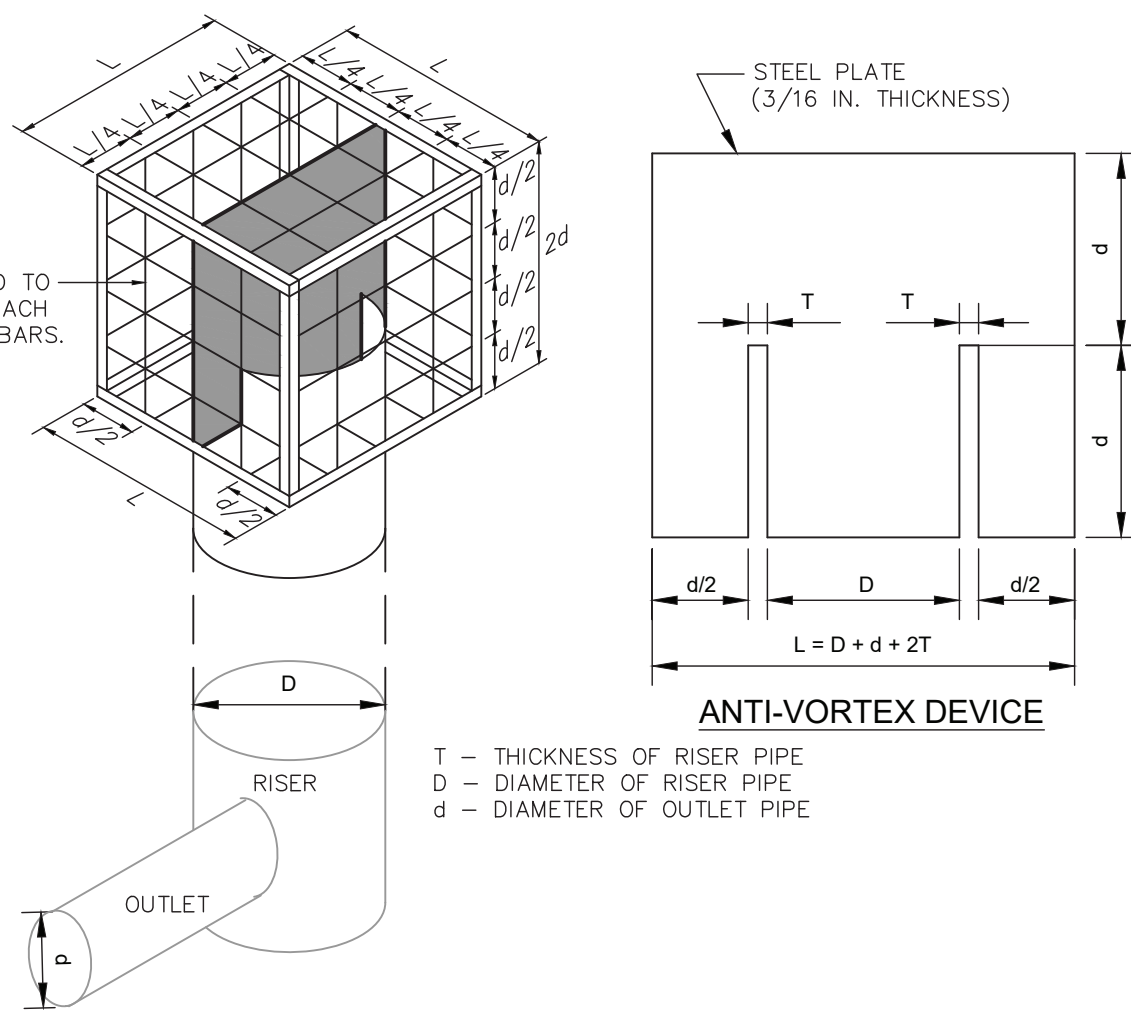
ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

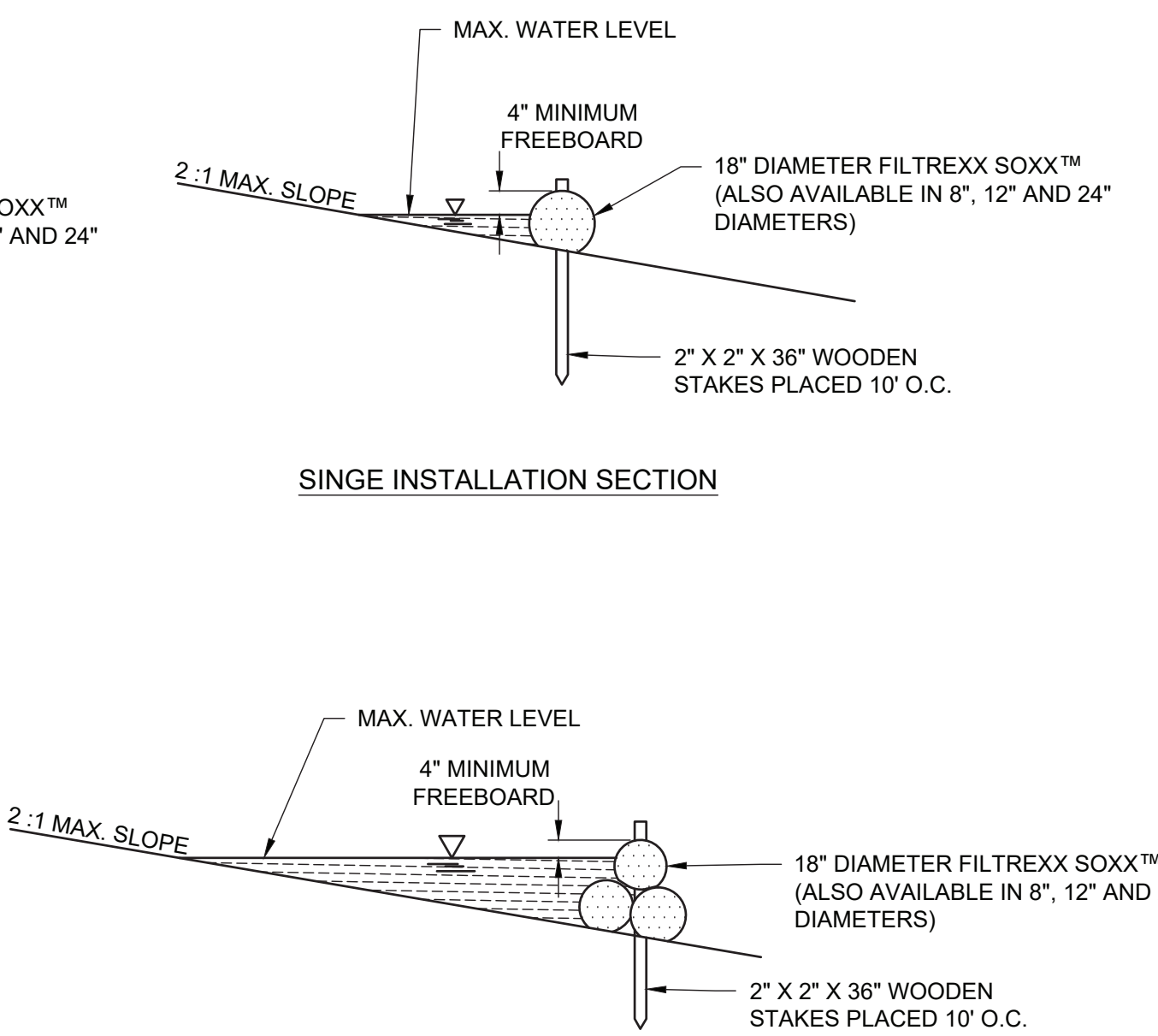
VEGETATED CHANNEL

NTS STANDARD CONSTRUCTION DETAIL #6-1



STANDARD CONSTRUCTION DETAIL #7-5 TRASH RACK AND ANTI-VORTEX DEVICE

NOT TO SCALE



PYRAMID INSTALLATION SECTION



Specification Sheet BioNet® S150BN® Erosion Control Blanket

DESCRIPTION
The Short-term Double net erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with a 100% biodegradable woven natural fiber netting. The netting shall consist of machine directional strands formed from two intertwined yarns with cross directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form an approximate 0.50 x 1.0 in. (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 150 inch (3.81 m) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The S150BN shall meet Type 2, D specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FH-03 Section 713.17

Material Content		
Matrix	100% Straw Fiber	0.5 lb/yd ² (0.27 kg/m ²)
Netting	Top: Leno woven 100% biodegradable organic jute	9.35 lb/1000 sq ft (4.5 kg/100 m ²)
	Bottom: 100% biodegradable organic jute	7.7 lb/1000 sq ft (3.76 kg/100 m ²)
Thread	Biodegradable	

Standard Roll Sizes		
Width	6.0 ft (1.83 m)	8.0 ft (2.4 m)
Length	128 ft (39.3 m)	192 ft (58.5 m)
Weight ± 10%	52.22 lbs (23.69 kg)	65.28 lbs (29.6 kg)
Area	80 sq yd (66.9 m ²)	160 sq yd (133.8 m ²)
	Leno weave top only	Leno top and bottom

Slope Design Data: C Factors		
Slope Gradients (S)		
Slope Length (L)	≤ 3:1	3:1 - 2:1
20-50 ft (6-15 m)	0.0004	0.039
≥ 50 ft (15.2 m)	0.01	0.070

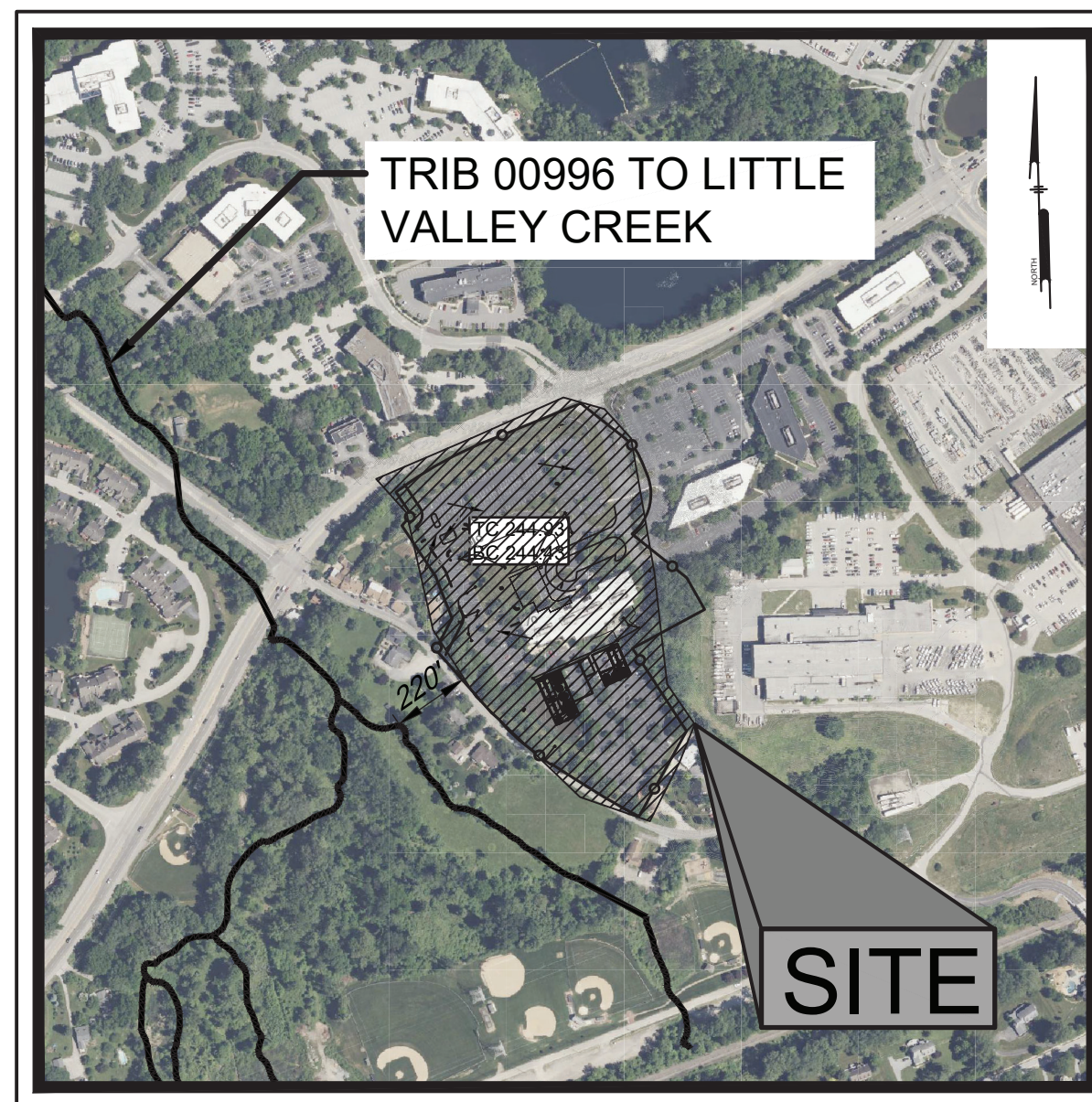
Roughness Coefficients - Unveg.		
Flow Depth	Manning's n	
≤ 0.50 ft (0.15 m)	0.055	
0.50 - 2.0 ft (0.15 - 0.61 m)	0.055-0.021	
≥ 2.0 ft (0.61 m)	0.021	

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ECTC, AASHTO, FHWA, S150BN, S150

EROSION CONTROL BLANKET PRODUCT

NOT FOR CONSTRUCTION



Scale: 1" = 500'

— LOD —

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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN NOTES:

1. THE PROJECT'S RECEIVING ENCLOSURE IS TRIBUTARY 00909 TO LITTLE VALLEY CREEK, WHICH IS CLASSIFIED AS EXCEPTIONAL VALUE, MIGRATORY FISHERY (EVMF) BY TITLE 25, CHAPTER 83 OF THE PENNSYLVANIA CODE.
2. A NOTICE OF TERMINATION (NOT) WILL BE REQUIRED TO BE SUBMITTED FOLLOWING APPROVAL OF THE FINAL AS-BUILT PLANS, PRIOR TO ACCEPTING THE NOTICE OF TERMINATION. THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION TO ENSURE SITE STABILIZATION AND VERIFY ADEQUATE INSTALLATION AND FUNCTION OF STORMWATER BMP'S.
3. UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY UNDER §102.22(a)(2) (RELATING TO PERMANENT STABILIZATION), AND INSTALLATION OF BMP'S IN ACCORDANCE WITH AN APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH THE PROVISIONS OF THE ACT, THE PERMITTEE SHALL BE REQUIRED TO SUBMIT A NOTICE OF TERMINATION TO THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.

THE NOTICE OF TERMINATION MUST INCLUDE

- (1) THE FACILITY NAME, ADDRESS AND LOCATION.
- (2) THE OPERATOR NAME AND ADDRESS.
- (3) THE PERMIT NUMBER.
- (4) THE REASON FOR PERMIT TERMINATION.
- (5) IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs IN ACCORDANCE WITH §102.8(M) AND PROOF OF COMPLIANCE WITH §102.8(M)(2).

PRIOR TO ACCEPTING THE NOT, THE DEPARTMENT AND/OR CONSERVATION DISTRICT STAFF WILL PERFORM A FINAL INSPECTION AND APPROVE OR DENY THE NOTICE OF TERMINATION.

4. THE PERMITTEE SHALL INCLUDE WITH A NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED PROFESSIONAL, WHICH READS AS FOLLOWS:

"I, OWNER, DO HEREBY CERTIFY PURSUANT TO THE PENALTIES OF 18 P. C. S. A. §4904 TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE TRUE AND CORRECT, AND ARE IN CONFORMANCE WITH CHAPTER 102 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PCSM PLAN AND ALL APPROVED PLAN CHANGES AND ACCEPTED CONSTRUCTION PRACTICES."

- (1) THE PERMITTEE SHALL RUN A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN.
- (2) THE PERMITTEE SHALL PROVIDE A COPY OF THE RECORD DRAWINGS AS A PART OF THE APPROVED PCSM PLAN TO THE PERSON IDENTIFIED IN THIS SECTION AS BEING RESPONSIBLE FOR THE LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BAMPS.
5. ALL STORMWATER CONVEYANCE AND MANAGEMENT FACILITIES SHOWN ON THIS PLAN ARE PERMANENT AND ARE NOT TO BE REMOVED OR ALTERED WITHOUT THE APPROVAL OF THE TOWNSHIP. THE INDIVIDUAL LOT OWNER, HIS/HER AGENT, ASSIGNS OR SUCCESSORS SHALL BE RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF THE SAID FACILITIES.
6. THE OWNER HEREBY GRANTS PERMISSION TO THE TOWNSHIP, ITS AUTHORIZED AGENTS AND EMPLOYEES, TO ENTER UPON THE LOT AND ADJACENT AREAS TO INSPECT, MAINTAIN, REPAIR, REPLACE, OR REMOVE THE BAMPS WHENEVER THE TOWNSHIP DEEMS NECESSARY. THE TOWNSHIP SHALL NOTIFY THE OWNER AT LEAST 24 HOURS PRIOR TO ENTERING THE PROPERTY.

SOIL TABLE

SYMBOL	NAME	HYDROLOGIC GROUP	SLOPES	HYDRIC	DEPTH TO		LIMITATIONS		RESOLUTION NOTES
					WATER TABLE (IN)	BEDROCK (IN)	FROST ACTION	SMALL COMMERCIAL BUILDINGS	
CIB	CONESTOGA SILT LOAM	B	3-8%	NO	>80	60-99	MODERATE	SOMEWHAT LIMITED	#2 - #6 SEE RESOLUTION NOTES
CIC	CONESTOGA SILT LOAM	B	8-15%	NO	>80	60-99	MODERATE	VERY LIMITED	-
HIC	HOLLINGER SILT LOAM	B	8-15%	NO	>80	60-99	MODERATE	VERY LIMITED	-
UIB	URBAN LAND	-	0-8%	NO	-	-	NONE	NOT RATED	#1 SEE RESOLUTION NOTES

RESOLUTION NOTES:

- DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE: SHOULD A HIGH GROUND WATER TABLE BE ENCOUNTERED DURING CONSTRUCTION, WATER WILL BE DRAINED AWAY FROM DISTURBED AREAS TO A WELL VEGETATED AREA OR A PLACED COMPOST FILTER SOCK PRIOR TO BEING DISCHARGED OFF SITE. SATURATED SOILS WILL REQUIRE COMPACTION WILL BE DRIED PRIOR TO BEING USED ON SITE.
- PIPING:
 - AREAS OF EMBANKMENTS WITH PIPES PASSING THROUGH THEM SHALL HAVE ANTI-SEEP COLLARS INSTALLED PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S (PA DEP) EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM.
- CUTO BANKS CAVES - ALMOST ALL PENNSYLVANIA SOILS ARE SUSCEPTIBLE TO CAVING OF CUTO BANKS. CUTO SLOPES WILL BE STABILIZED AS SOON AS POSSIBLE WITH SEED AND MULCH OR EROSION CONTROL BLANKETS TO PREVENT SLIDING. SLOPES ARE DESIGNED TO NOT EXCEED 2H:1V.
- CORROSIVE TO CONCRETE/STEEL PIPE:
 - PIPES TO BE USED ON SITE SHALL BE HDPE OR COATED STEEL.
- POTENTIAL SINKHOLE:
 - SHOULD A SINKHOLE BE ENCOUNTERED DURING CONSTRUCTION, REPAIR SHOULD BE DONE UNDER THE DIRECT OBSERVATION AND SUPERVISION OF A PROFESSIONAL GEOLOGIST OR LICENSED GEOTECHNICAL ENGINEER.
- LOW STRENGTH - MOST OF PENNSYLVANIA SOILS (73%) HAVE RELATIVELY LOW STRENGTH. PRECAUTIONS WILL BE TAKEN TO PREVENT FAILURE DUE TO EXCESSIVE LOADS TO IMPROPERLY COMPACTED SOILS. WILL BE EVALUATED DURING CONSTRUCTION TO DETERMINE WHETHER ADDITIONAL MEASURES WILL NEED TO BE TAKEN.

GEOLOGY NOTE:

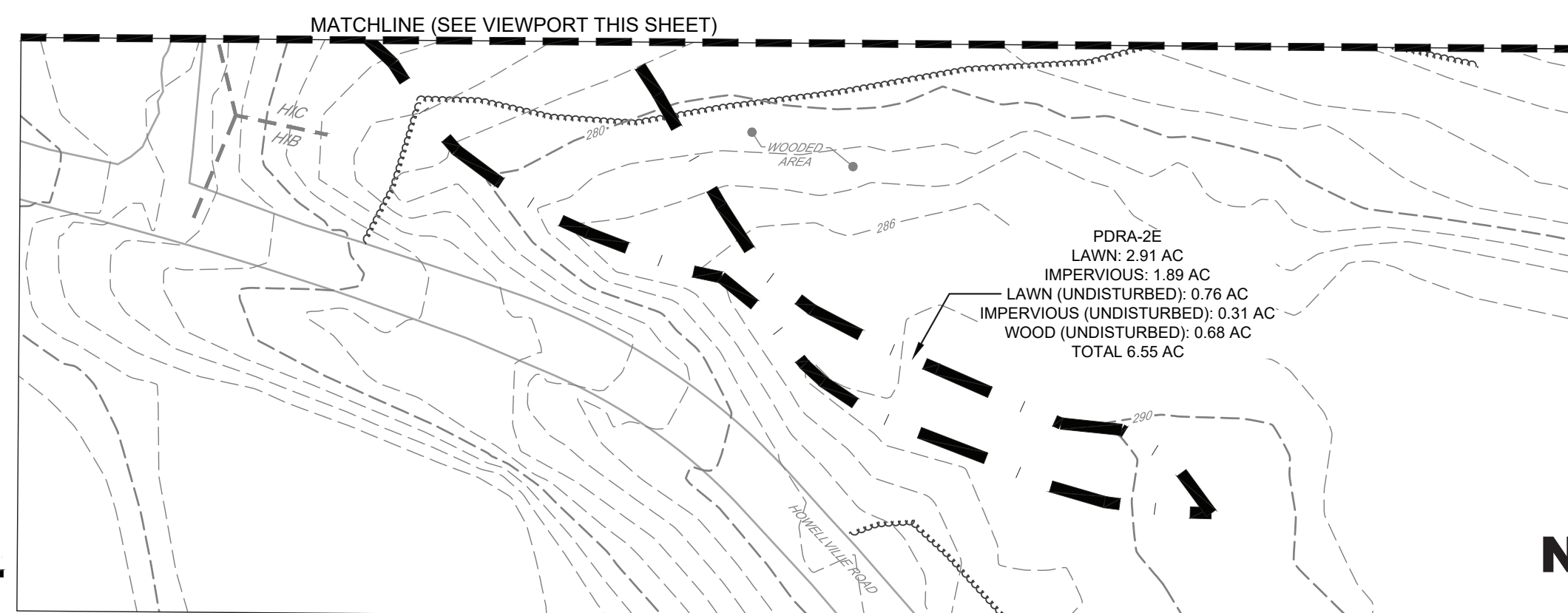
STATE: PENNSYLVANIA
NAME: CONESTOGA FORMATION
GEOLOGIC AGE: ORDOVICIAN AND CAMBRIAN
ORIGINAL MAP LABEL: OCc
PRIMARY ROCK TYPE: LIMESTONE
SECONDARY ROCK TYPE: SHALE,
CONGLOMERATIC LIMESTONE, PHYLLITE

INFILTRATION TEST SUMMARY						
INFI TEST TEST NUMBER	EX. FINISH GRADE ELEVATION	INFI TRATION TEST		LIMITING ZONE CHECK		INFI TRATION RATE (IN/HR)
		ELEVATION	DEPTH (FT)	DEPTH (FT)	TYPE	
IT-1	249.00	240.50	8.5	NE		<1
IT-2	245.50	240.50	5.0	NE		<1
IT-3	247.00	240.50	6.5	7	DECOMPOSED ROCK	<1
IT-4	245.00	237.50	7.5	NE		<1
IT-5	250.00	237.50	12.5	NE		<1
IT-6	247.00	237.50	9.5	NE		<1
IT-7	244.00	230.00	14.0	NE		<1
IT-8	242.00	230.00	12.0	NE		<1
IT-9	239.00	230.00	9.0	NE		<1
IT-10	248.00	240.00	8.0	NE		<1

CERTIFICATE OF DESIGN

I, MICHAEL KISSINGER, ON THIS DATE _____, 20____ HEREBY CERTIFY THAT WITHIN REFERENCED DRAINAGE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE TREDFFRIN TOWNSHIP STORMWATER MANAGEMENT ORDINANCE

PROFESSIONAL ENGINEER PA LICENSE NO.



A horizontal graphic scale bar with three segments. The first segment is black, the second is white, and the third is black. Above the bar, the numbers 0, 50', and 100 are marked at the beginning, middle, and end respectively.

NOT FOR CONSTRUCTION