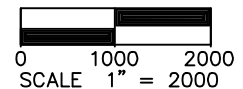


Site Location
Latrobe, PA USGS Quadrangle



Construction Sequence

The construction sequence listed below can be adjusted and/or varied depending on weather conditions, equipment availability, operator preference, etc. Variations to this plan will be discussed with and approved by the construction inspector before being implemented.

1. Mobilize equipment to the site necessary for the installation of E&S control measures
2. Construct project access road including rock construction entrance
3. Remove and stockpile topsoil from access road footprint in the designated topsoil stockpile area
4. Cut material from grading of road can be used to construct stream crossing at upper end of site
5. Install 24" HDPE smooth bore corrugated culvert pipe at stream crossing
6. Install silt sock as shown on plans.
7. Remove and store topsoil from treatment system footprint in designated topsoil storage area as shown on plans
8. Grade and construct settling ponds and manganese pond
9. Install erosion control blanket on all slopes 3:1 and steeper as work progresses
10. Install plumbing components including outfall protection
11. Install aggregate in manganese bed
12. Install 8" pipeline from ALD to settling pond including influent fountain
13. Backfill and seed/mulch the pipeline trench at the end of every day.
14. Install water deflectors in access road
15. Remove equipment from site.
16. Removal all garbage and construction related materials and dispose of properly
17. Seed and mulch all affected areas based on the rates and frequency given below

As soon as possible following each activity and as weather conditions permit, all disturbed areas should be graded to a condition suitable for public use, seeded and mulched per the following rates. All temporary seeding and mulching must occur within four (4) days of disturbance. Final graded areas shall be seeded and mulched immediately.

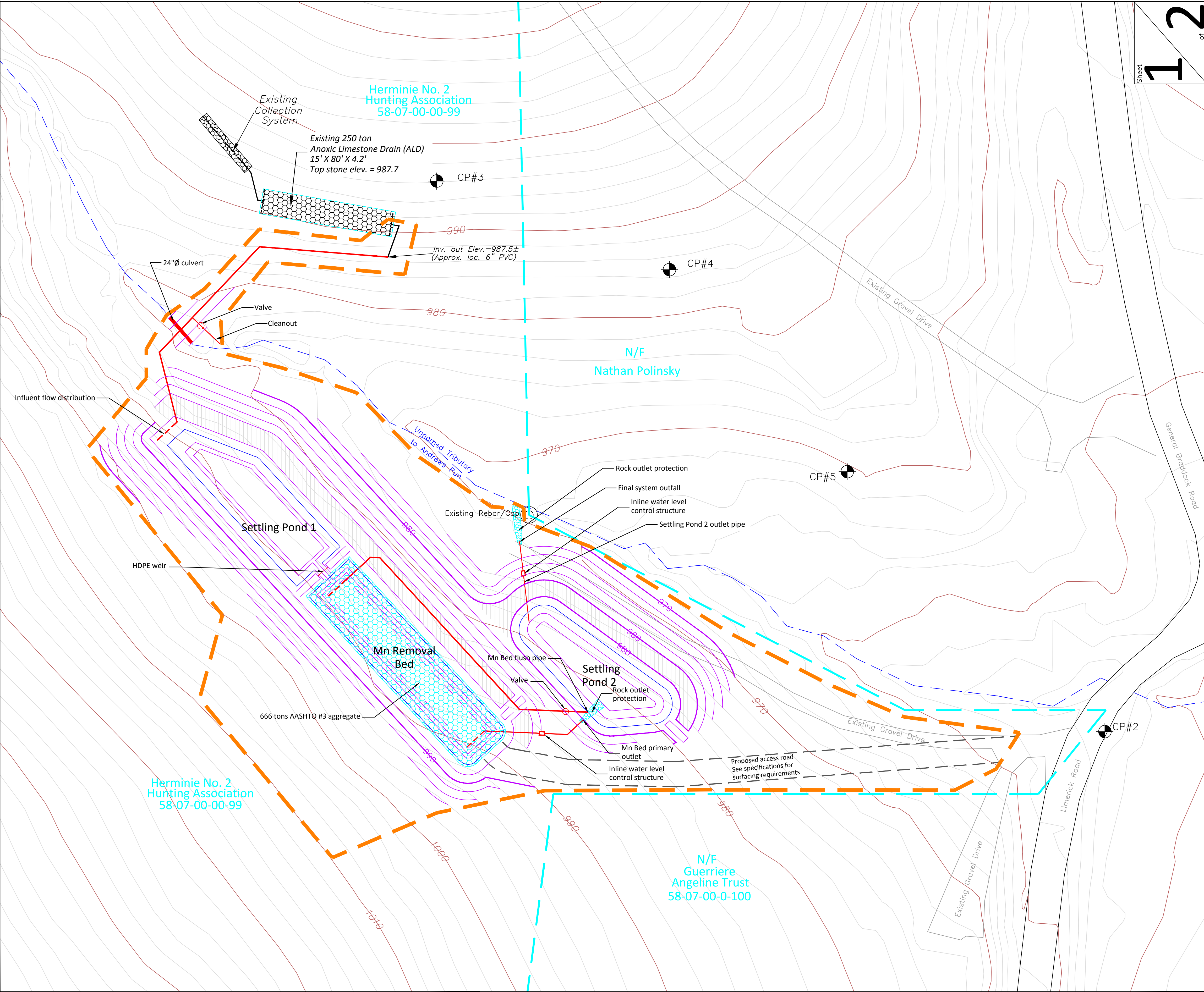
Permanent Mulch, fertilizer and seed rates

Straw Mulch	3 tons/acre or 100 bales/acre.*
Fertilizer (10-20-20)	500 lbs/acre
Perennial Rye Grass	10 lbs/acre
Red Fescue Grass	10 lbs/acre
White Dutch Clover	5 lbs/acre
Crimson Clover	5 lbs/acre
Birdsfoot Trefoil	3 lbs/acre
Rye or Wheat Grain	2 bushel/acre
Lime	4 tons/acre

*Must use chain flail mulcher or mulched by hand if using square bales. No mulcher with knives can be used.

Temporary seed rate

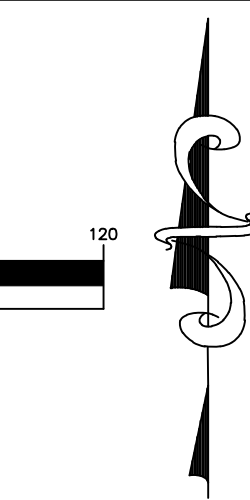
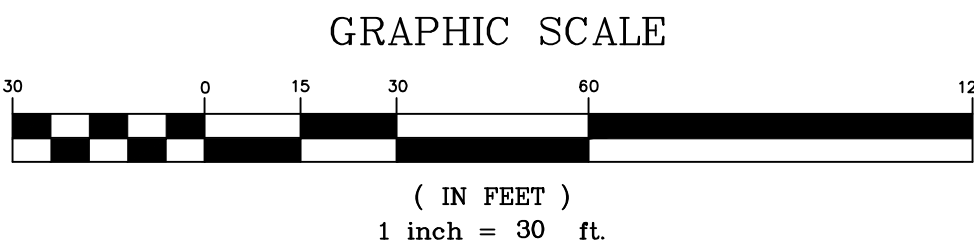
Annual Rye Grass	10 lbs/acre
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SURVEY CONTROL POINTS				
NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP#2	348542.7	1423876.2	955.7	SET RxR Spike
CP#3	348871.1	1423477.7	996.0	SET 5/8" REBAR
CP#4	348818.3	1423616.6	984.7	SET 5/8" REBAR
CP#5	348697.8	1423722.6	969.2	SET 5/8" REBAR

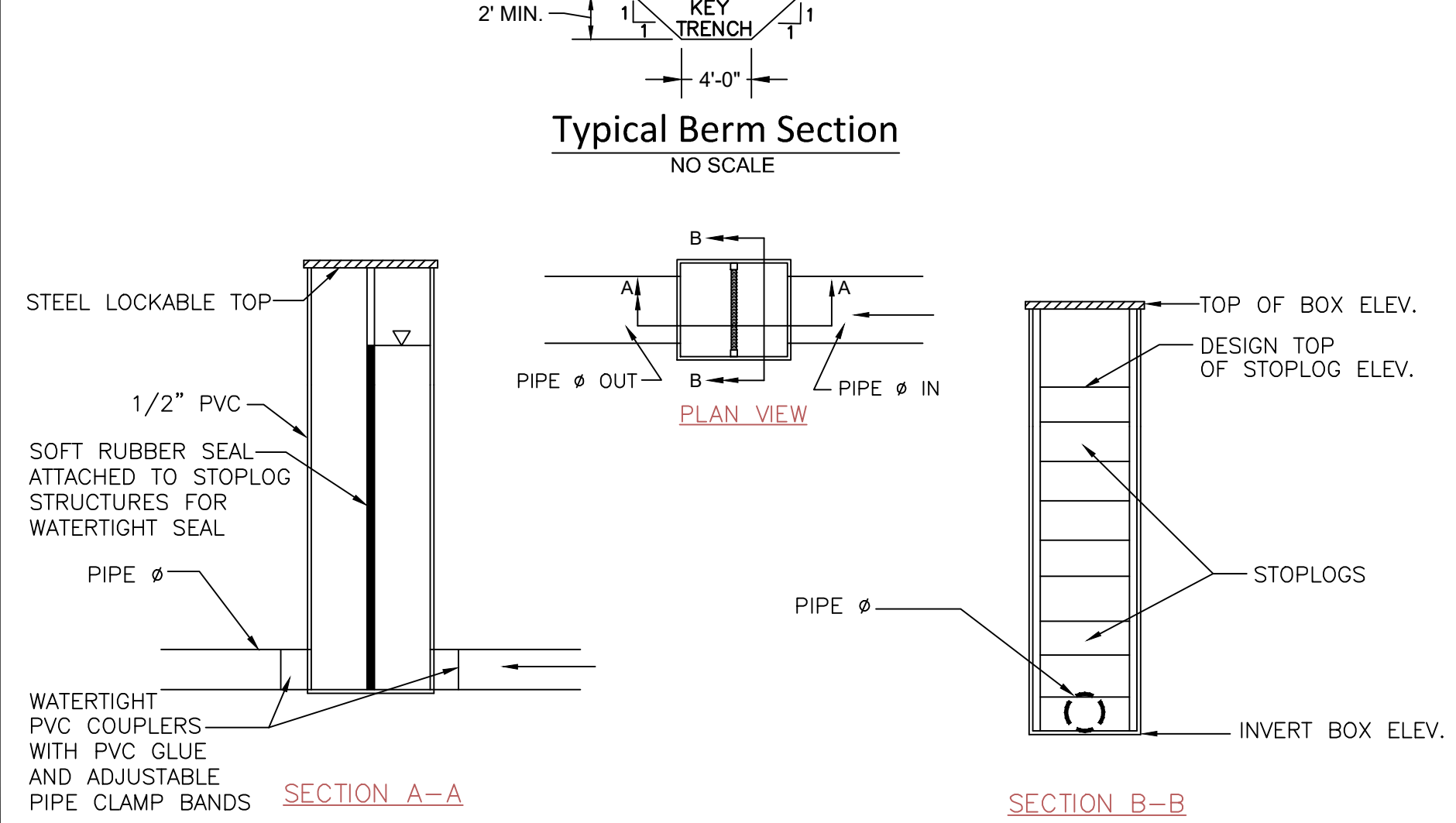
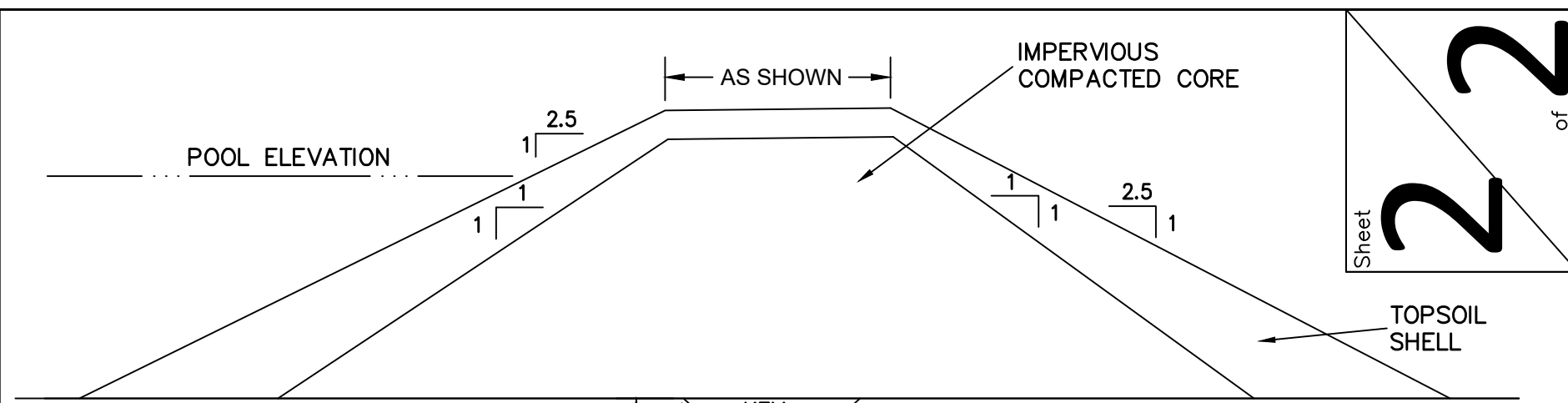
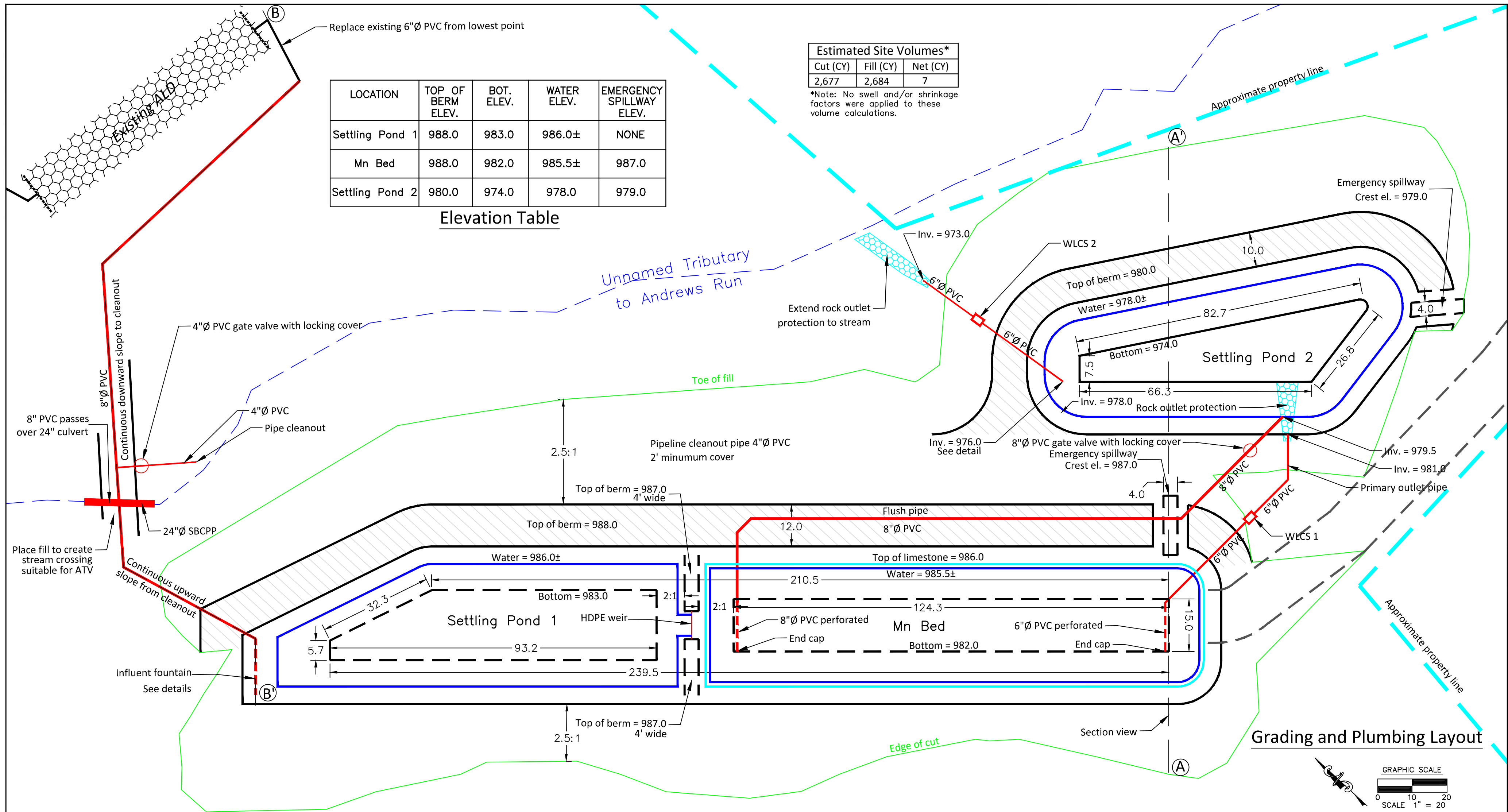
LEGEND:

- Index contour
- Intermediate contour
- Proposed index contour
- Proposed int. contour
- Proposed pipe
- Proposed access road
- Existing gravel drive
- Existing ditch or water
- Approx. property line
- Existing road
- Set bench mark (as labeled)
- Project boundary
- Proposed top of berm
- Proposed rock placement
- Existing rock placement



Sheet
1
2
of

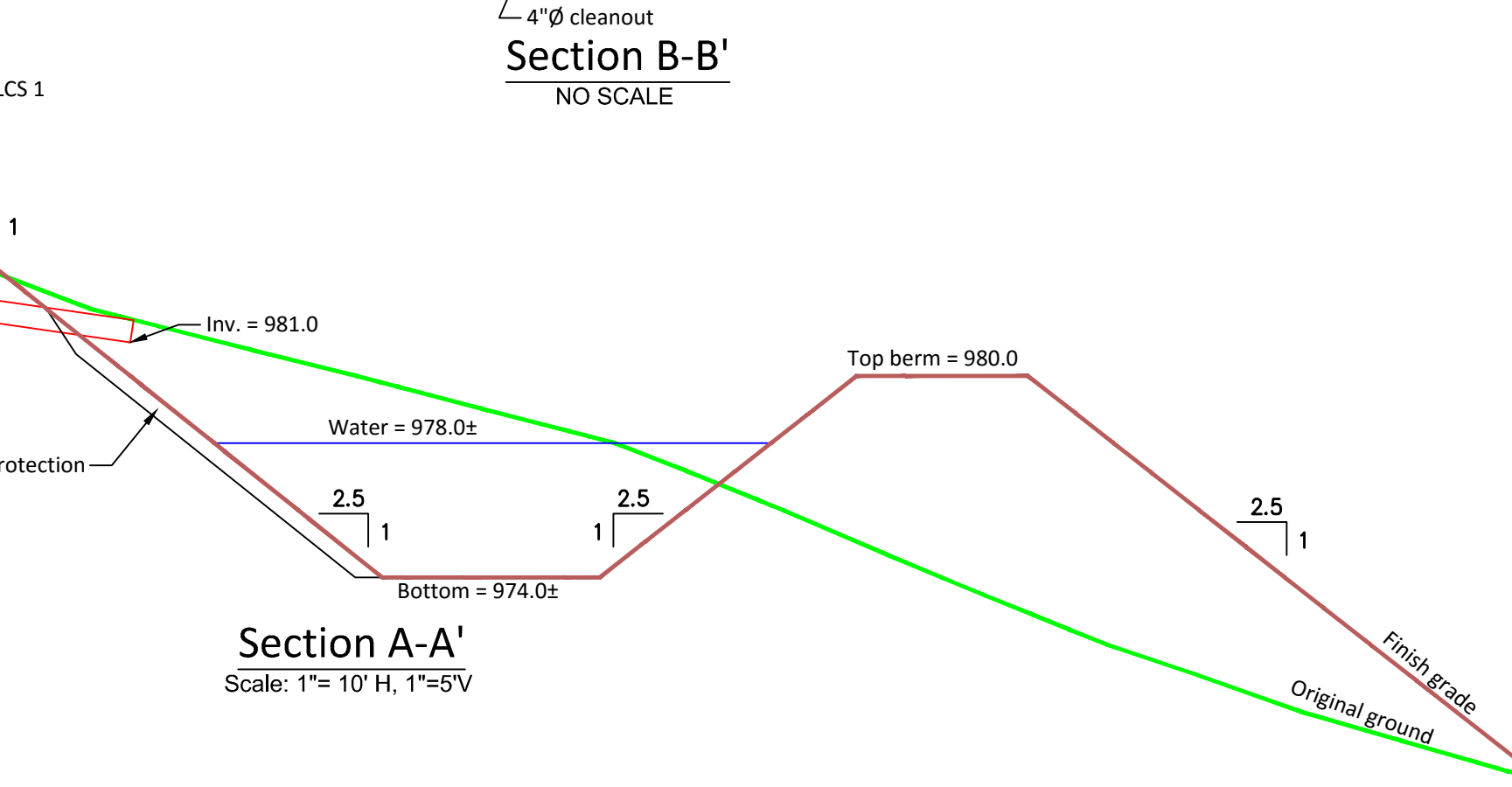
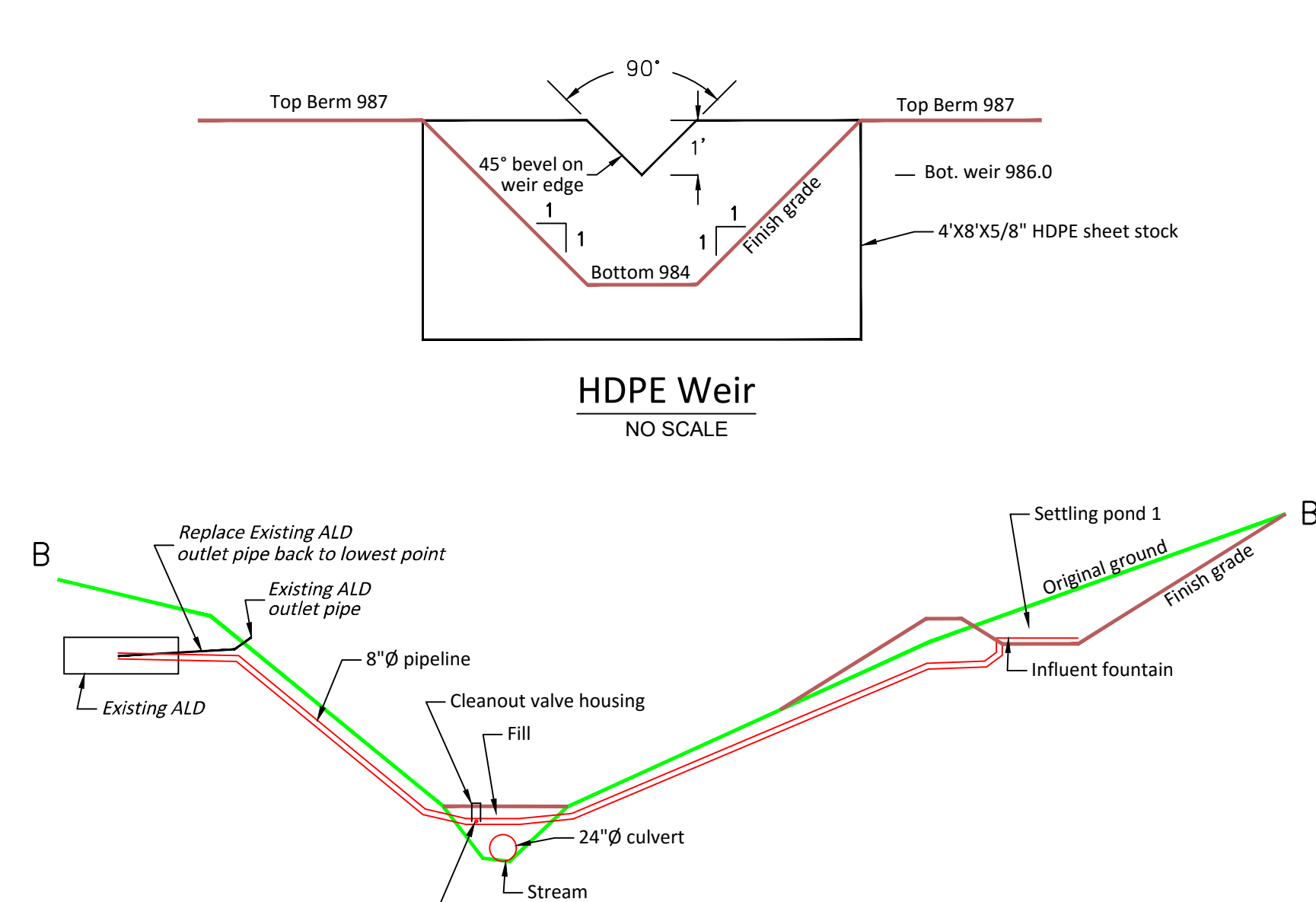
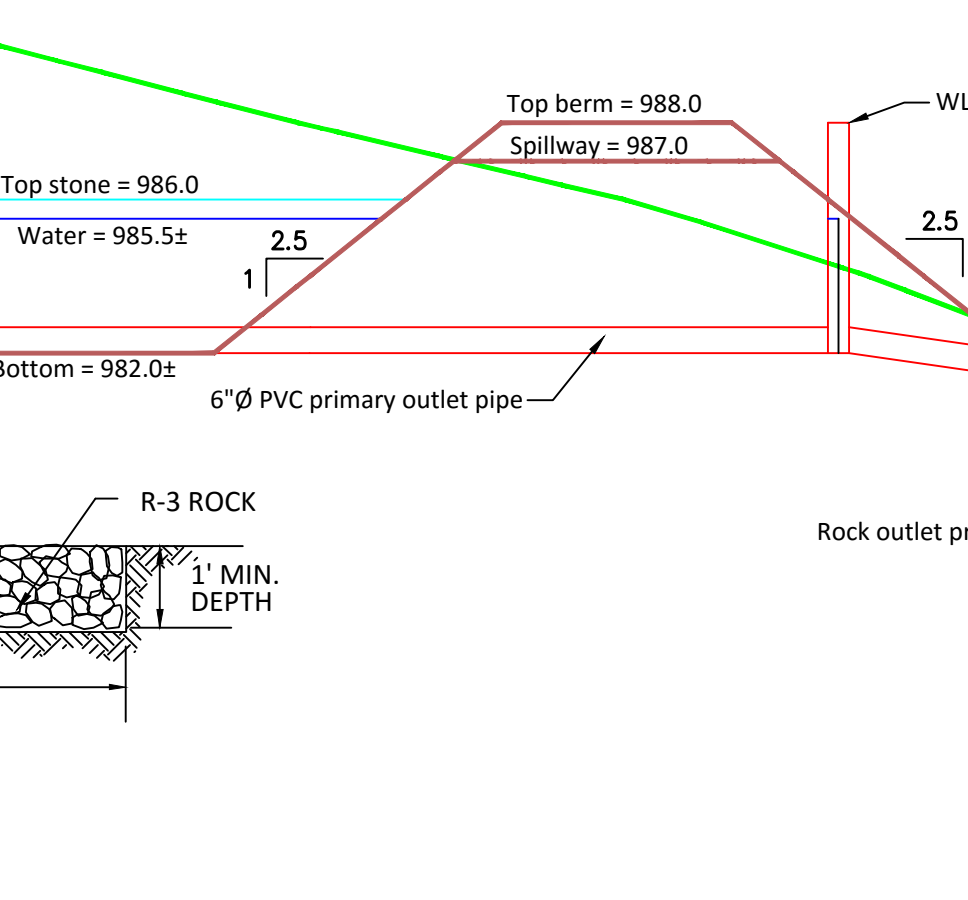
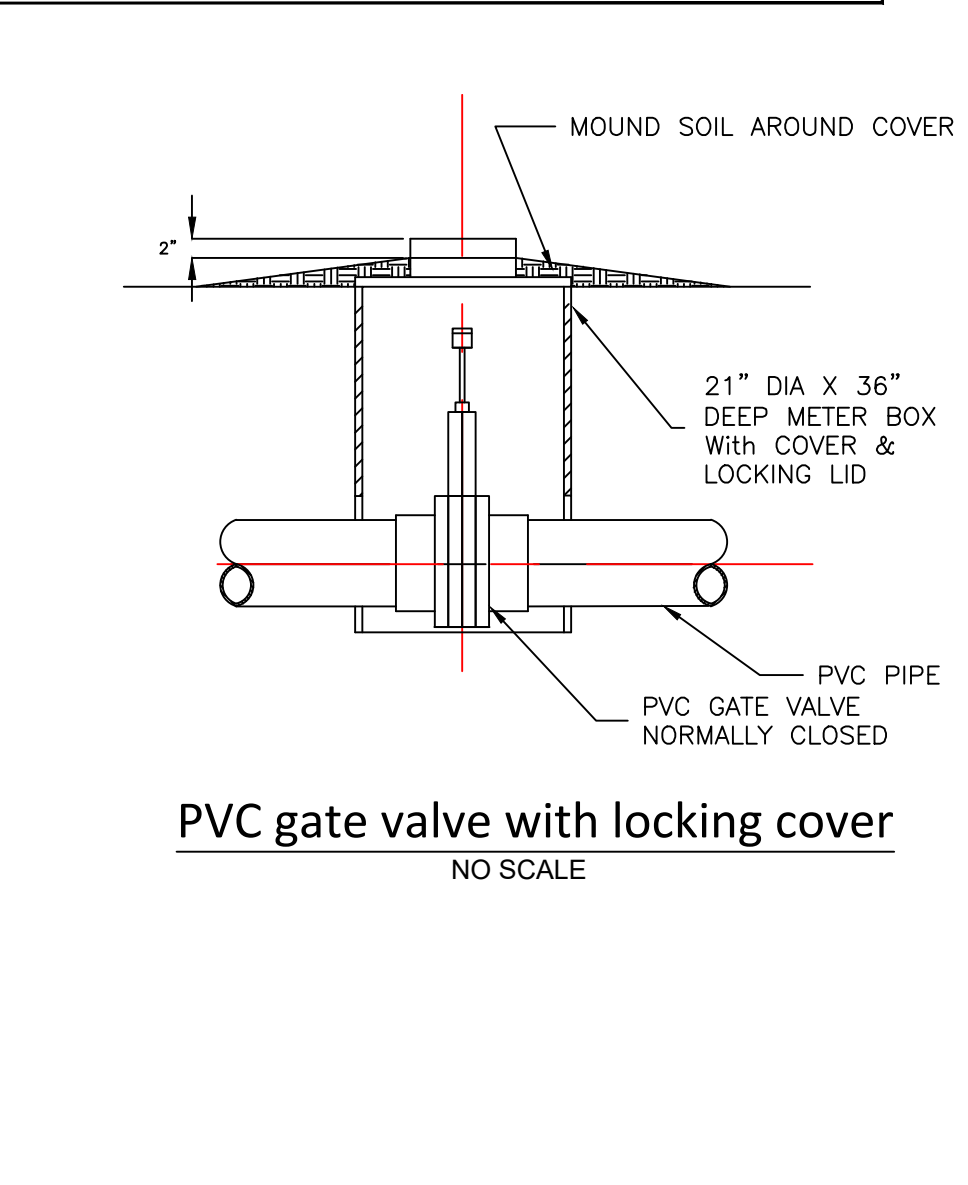
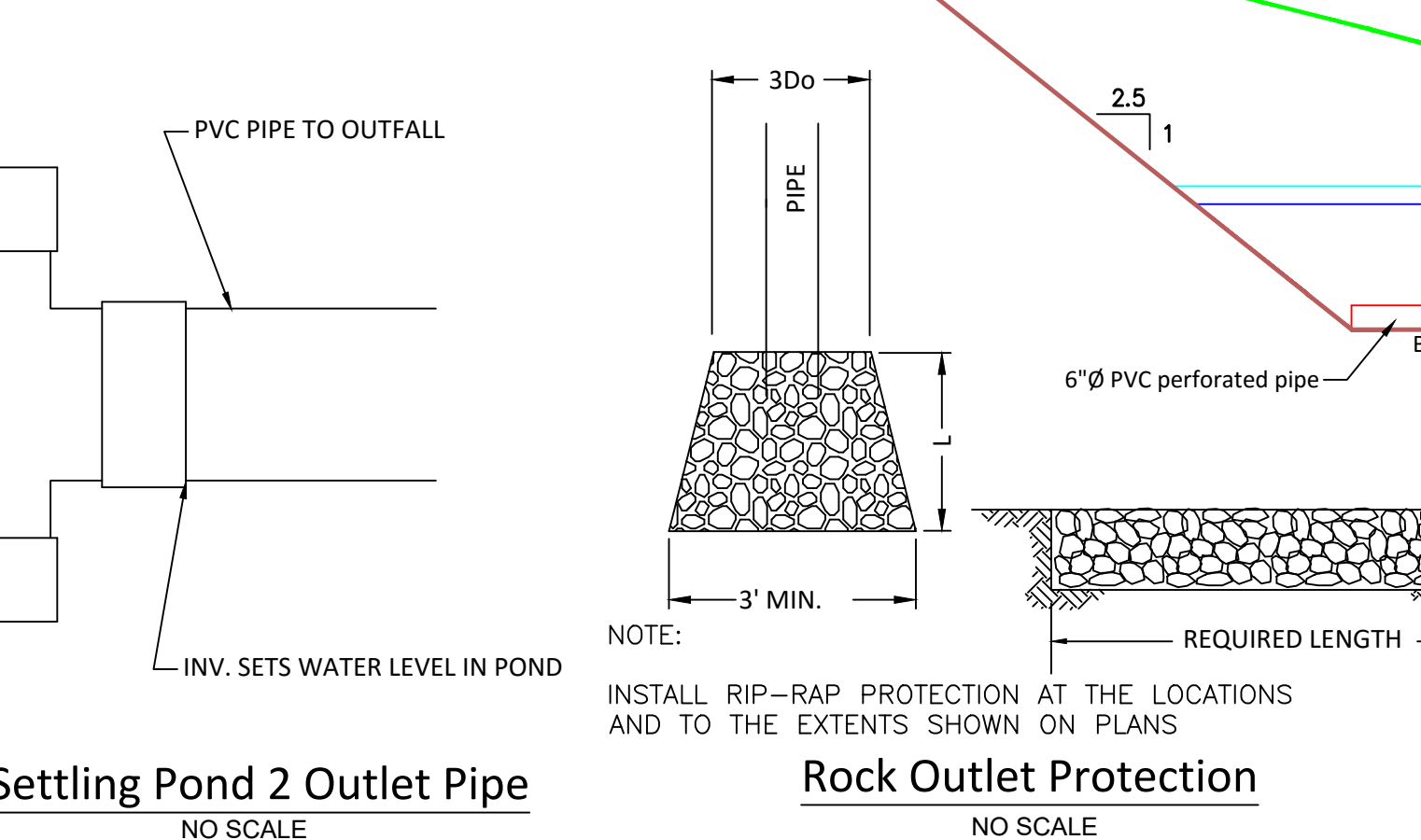
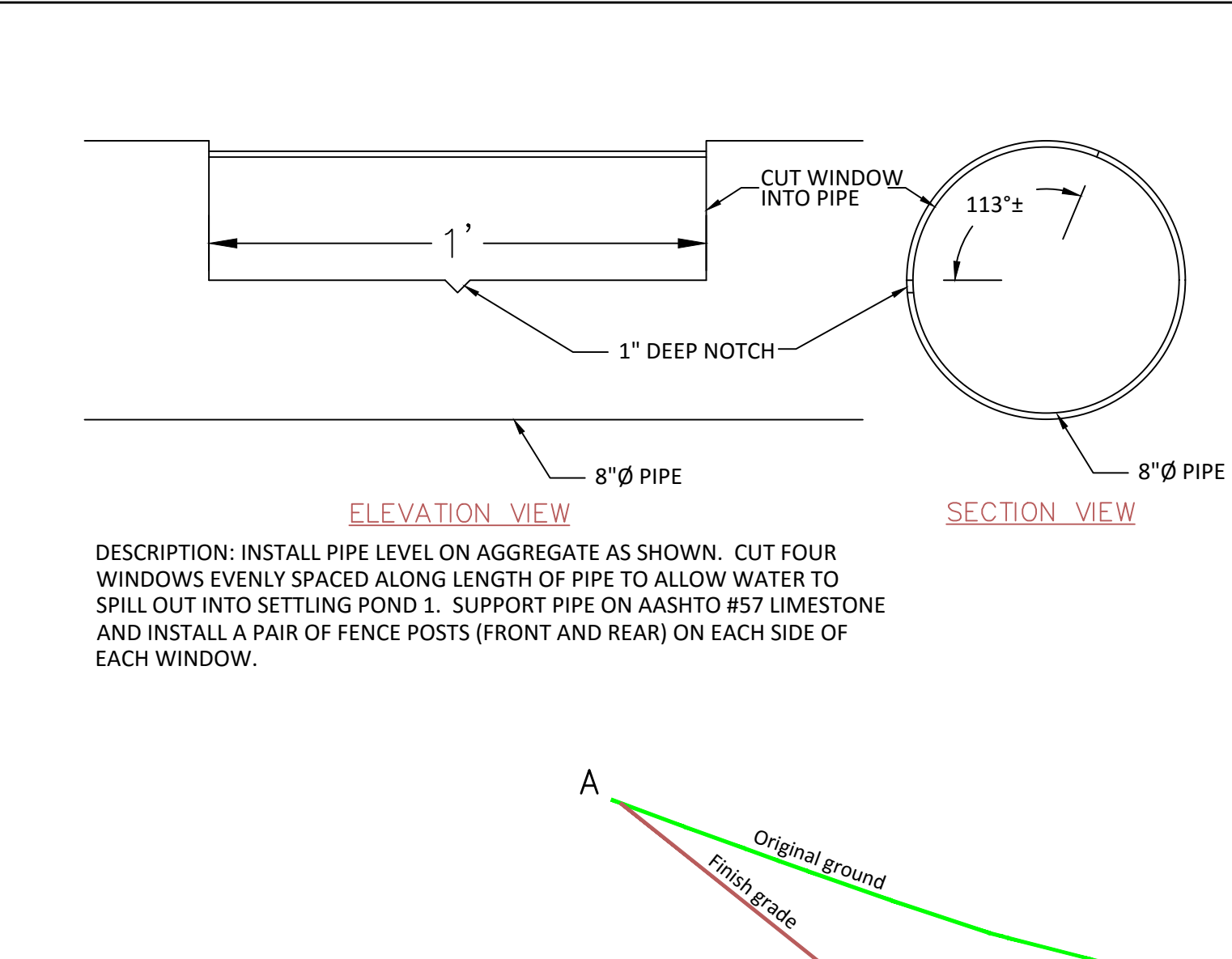
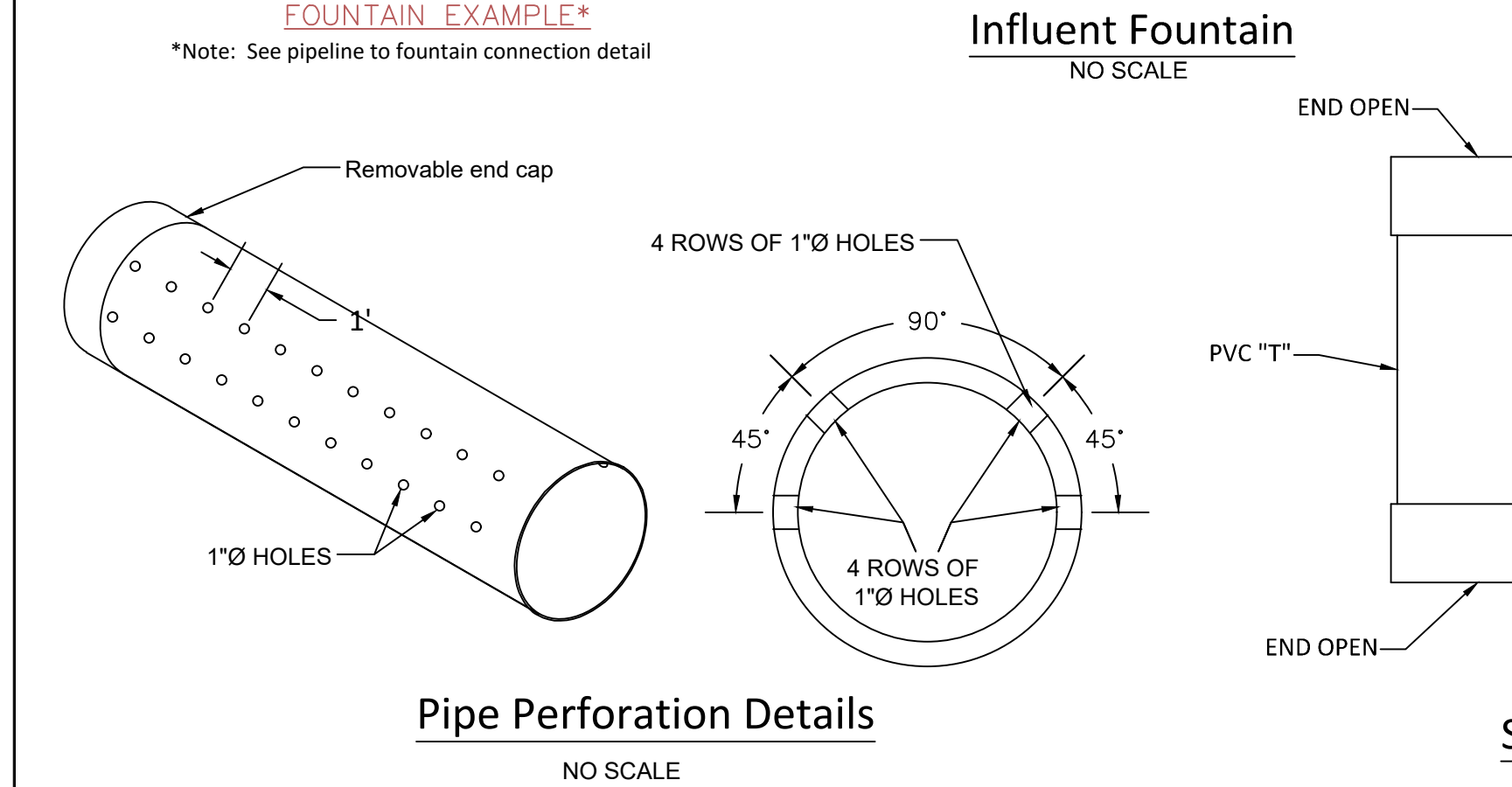
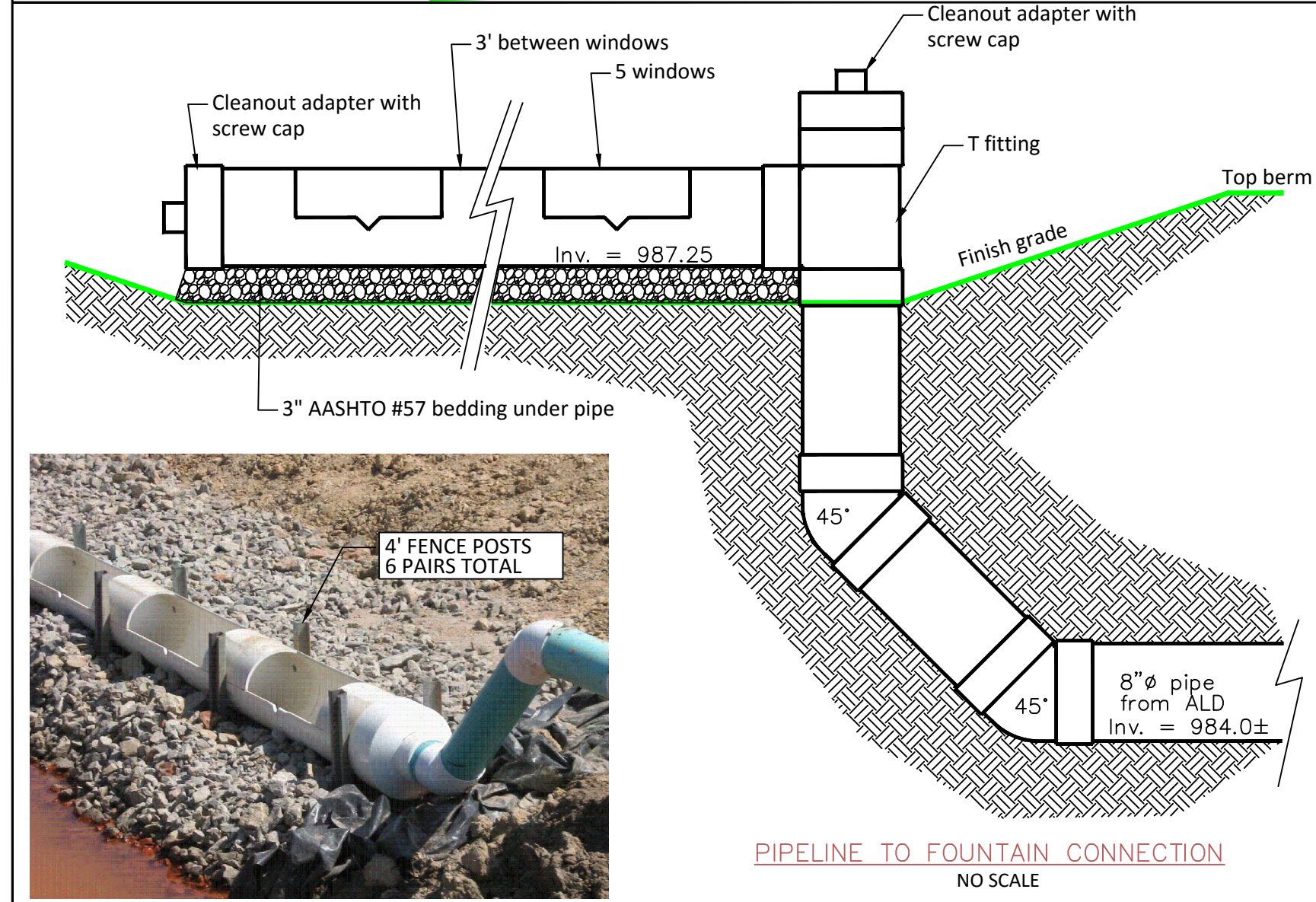
8					Notes: Topography source: PA DOE PA/PAAP Program. Control points and site features surveyed by D.E.M. Surveying Company, PA. Approximate property lines plotted from deed description and found points.	Design Criteria Developed By Hedin Environmental	 195 Castle Shannon Blvd. Pittsburgh, PA 15228 www.hedinenv.com	Construction Site Plan		
7								Bulldog Site		
6								Passive Treatment System		
5										
4										
3						MUNICIPALITY:	DATE:	SEE REVISION	BLOCK	FILE NAME:
2		6/3/16	Construction sequence edits, remove draft stamp	N/A		SEWICKLEY	TWP.	NAW	Bulldog.dwg	
1		5/9/16	File creation	N/A		COUNTY:	DRAWN BY:	SCALE:		
No.		Date	Description	By		WESTMORELAND		NAW	AS SHOWN	



INLINE STRUCTURE	TOP OF BOX ELEV.	INVERT BOX ELEV.	STRUCTURE HEIGHT (FT)	INSIDE DIMENSION WIDTH	INSIDE DIMENSION DEPTH	PIPE Ø (IN)	PIPE TYPE	TOP STOPLOG ELEV.
WLCS 1	988.0	982.0	6	8"	10"	6	PVC	986.0
WLCS 2	980.0	976.0	4	8"	10"	6	PVC	978.0

AgriDrain Inline Water Level Control Structure

NO SCALE



Construction Details

Andrews Run Site Passive Treatment System

FILE NAME: Bulldog.dwg
DATE: SEE REVISION BLOCK
MUNICIPALITY: SEWICKLEY TWP.
COUNTY: WESTMORELAND
DRAWN BY: NAW
SCALE: AS SHOWN

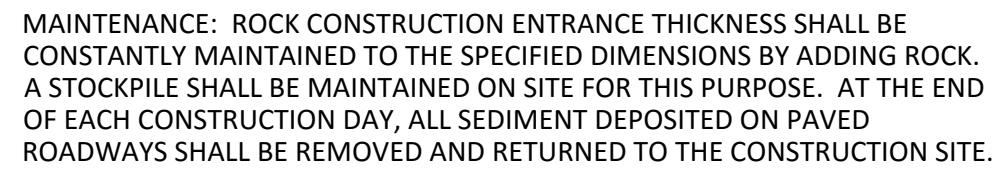
Design Criteria Developed By
Hedin Environmental

By

No.	Date	Description
8		
7		
6		
5		
4		
3	6/3/16	Remove draft stamp
2	6/3/16	File creation
1	5/9/16	

HedinEnvironmental

195 Castle Shannon Blvd.
Pittsburgh, PA 15228
www.hedinenv.com



NO SCALE



Maintenance: Deflector shall be inspected weekly and after each runoff event. Accumulated sediment shall be removed from deflector within 24 hours of inspection.
Belt shall be replaced when worn and no longer effective.

NO SCALE



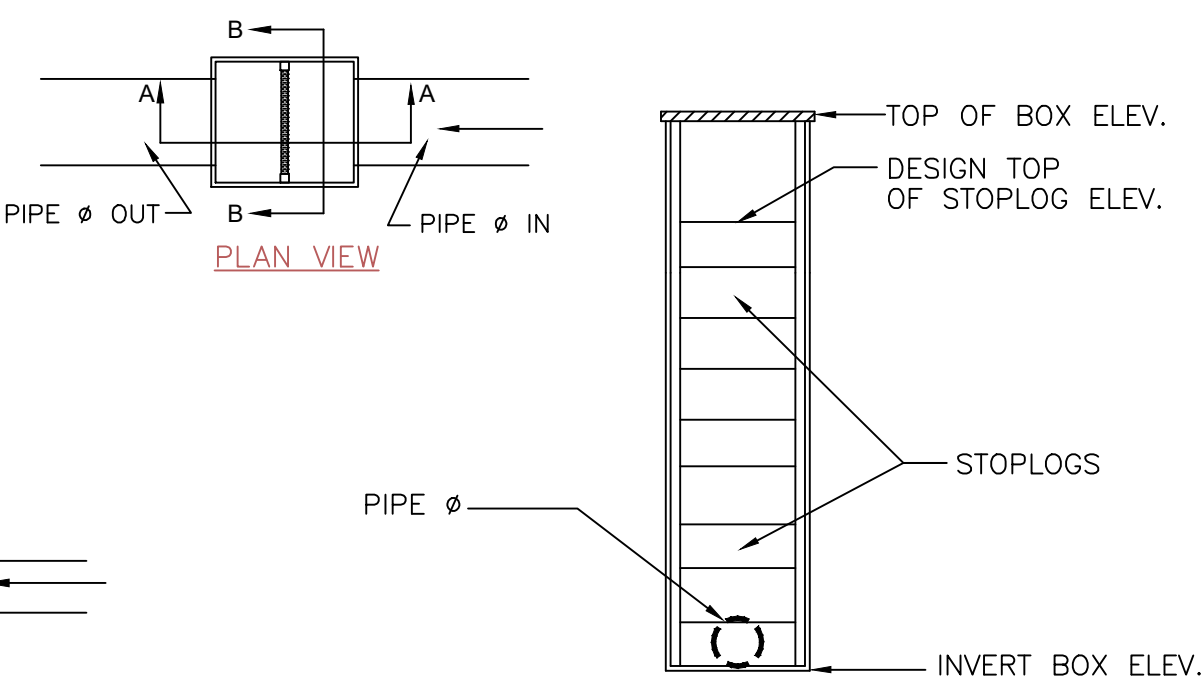
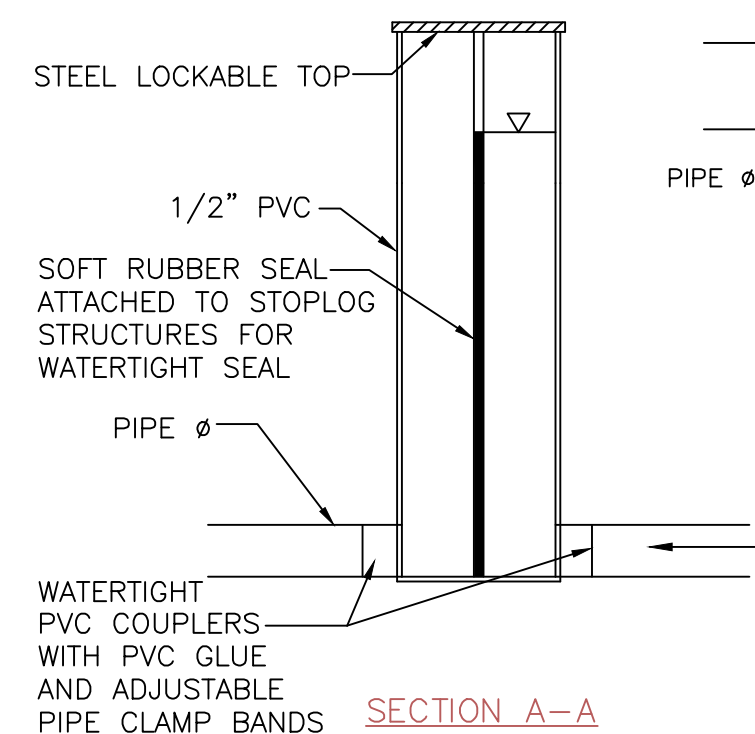
Provide anchor trench at toe of slope in similar fashion as at top of slope.

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.

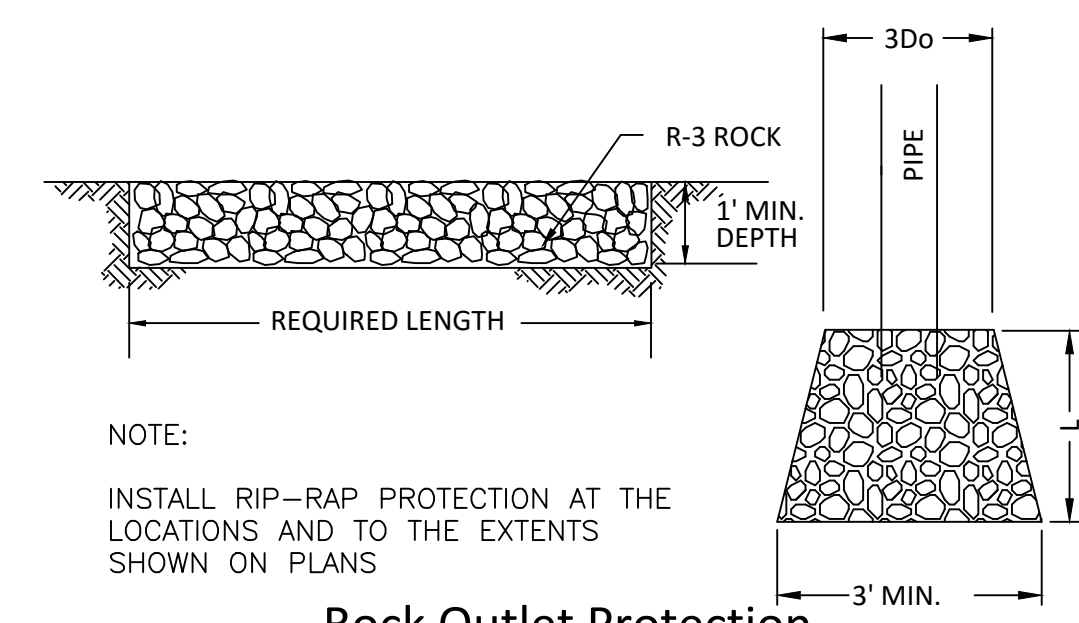
The blanket shall be stapled in accordance with the manufacturer's recommendations.

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.

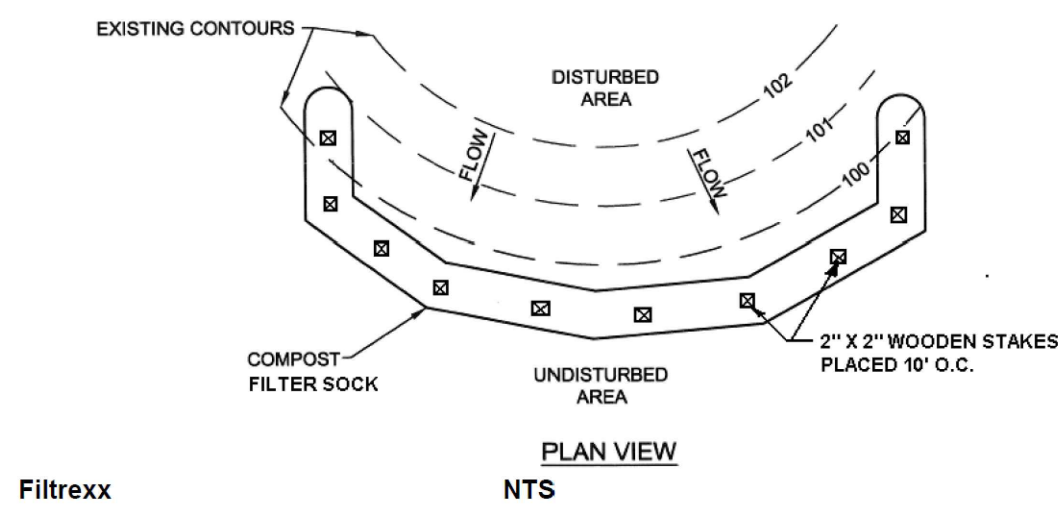
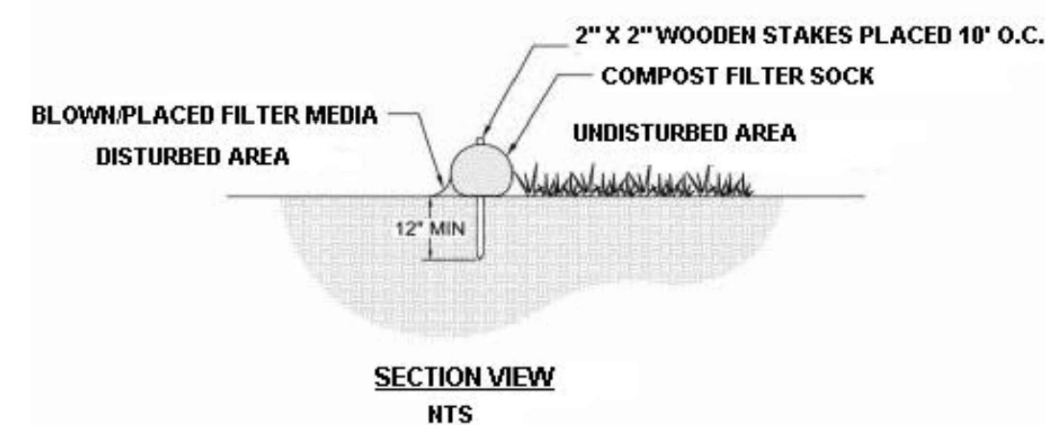


INLINE STRUCTURE	TOP OF BOX ELEV.	INVERT BOX ELEV.	STRUCTURE HEIGHT (FT)	INSIDE DIMENSION WIDTH	INSIDE DIMENSION DEPTH	PIPE Ø (IN)	PIPE TYPE	TOP STOPLOG ELEV.
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WLCS 2	980.0	976.0	4	11-8/8"	10"	6	PVC	978.0

NO SCALE



NO SCALE



Compost filter sock shall be placed at existing level grade. Both ends of the sock shall be extended at least 8 feet up slope at 45 degrees to the main sock alignment (Figure 4.1). Maximum slope length above any sock shall not exceed that shown on Figure 4.2. Stakes may be installed immediately downslope of the sock if so specified by the manufacturer.

Traffic shall not be permitted to cross filter socks.

Accumulated sediment shall be removed when it reaches half the aboveground height of the sock and disposed in the manner described elsewhere in the plan.

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 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.

