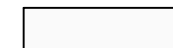




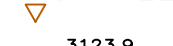







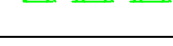



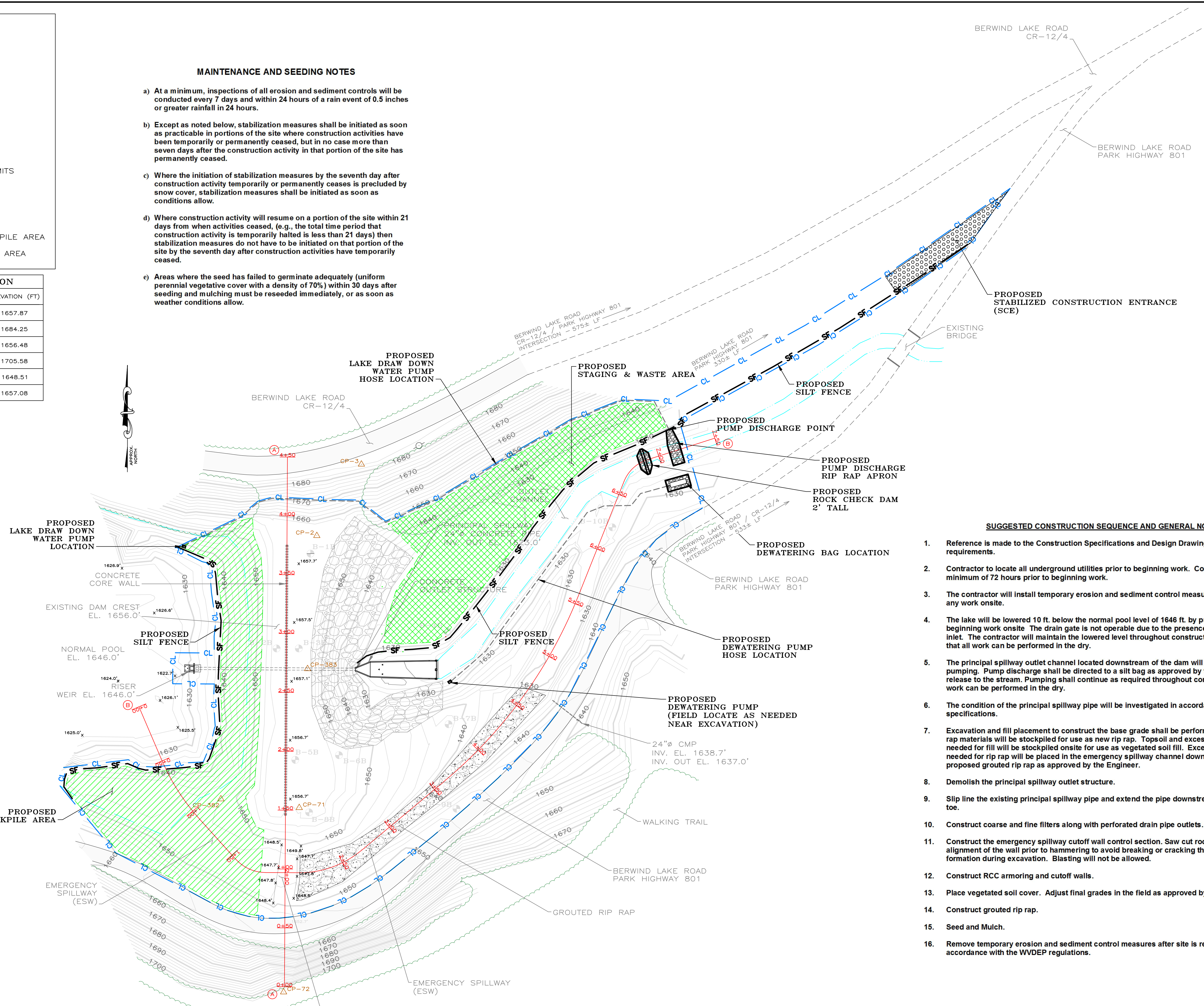
—LEGEND—

-  EXISTING PAVED ROAD
-  EXISTING RIP RAP
-  BASELINE
-  BORING LOCATION
-  TREE LINE
-  CONTROL POINT
-  SPOT ELEVATION
-  WATER SURFACE
-  EXISTING CONTOUR
-  PROPOSED CONSTRUCTION LIMITS
-  PROPOSED SILT FENCE
-  PROPOSED SCE
-  PROPOSED ROCK CHECK
-  PROPOSED STAGING & STOCKPILE AREA
-  PROPOSED STAGING & WASTE AREA

MAINTENANCE AND SEEDING NOTES

- a) At a minimum, inspections of all erosion and sediment controls will be conducted every 7 days and within 24 hours of a rain event of 0.5 inches or greater rainfall in 24 hours.
- b) Except as noted below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have been temporarily or permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has permanently ceased.
- c) Where the initiation of stabilization measures by the seventh day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as conditions allow.
- d) Where construction activity will resume on a portion of the site within 21 days from when activities ceased, (e.g., the total time period that construction activity is temporarily halted is less than 21 days) then stabilization measures do not have to be initiated on that portion of the site by the seventh day after construction activities have temporarily ceased.
- e) Areas where the seed has failed to germinate adequately (uniform perennial vegetative cover with a density of 70%) within 30 days after seeding and mulching must be reseeded immediately, or as soon as weather conditions allow.

CONTROL POINT INFORMATION			
POINT NUMBER	NORTHING	EASTING	ELEVATION (FT)
CP-2 (HUB/TAC)	10113.08	10007.83	1657.87
CP-3 (SPIKE)	10173.78	10045.68	1684.25
CP-71 (SPIKE)	9882.00	9992.91	1656.48
CP-72 (SPIKE)	9725.40	9979.65	1705.58
CP-382 (SPIKE)	9889.40	9926.37	1648.51
CP-383 (HUB/TAC)	10000.00	10000.00	1657.08



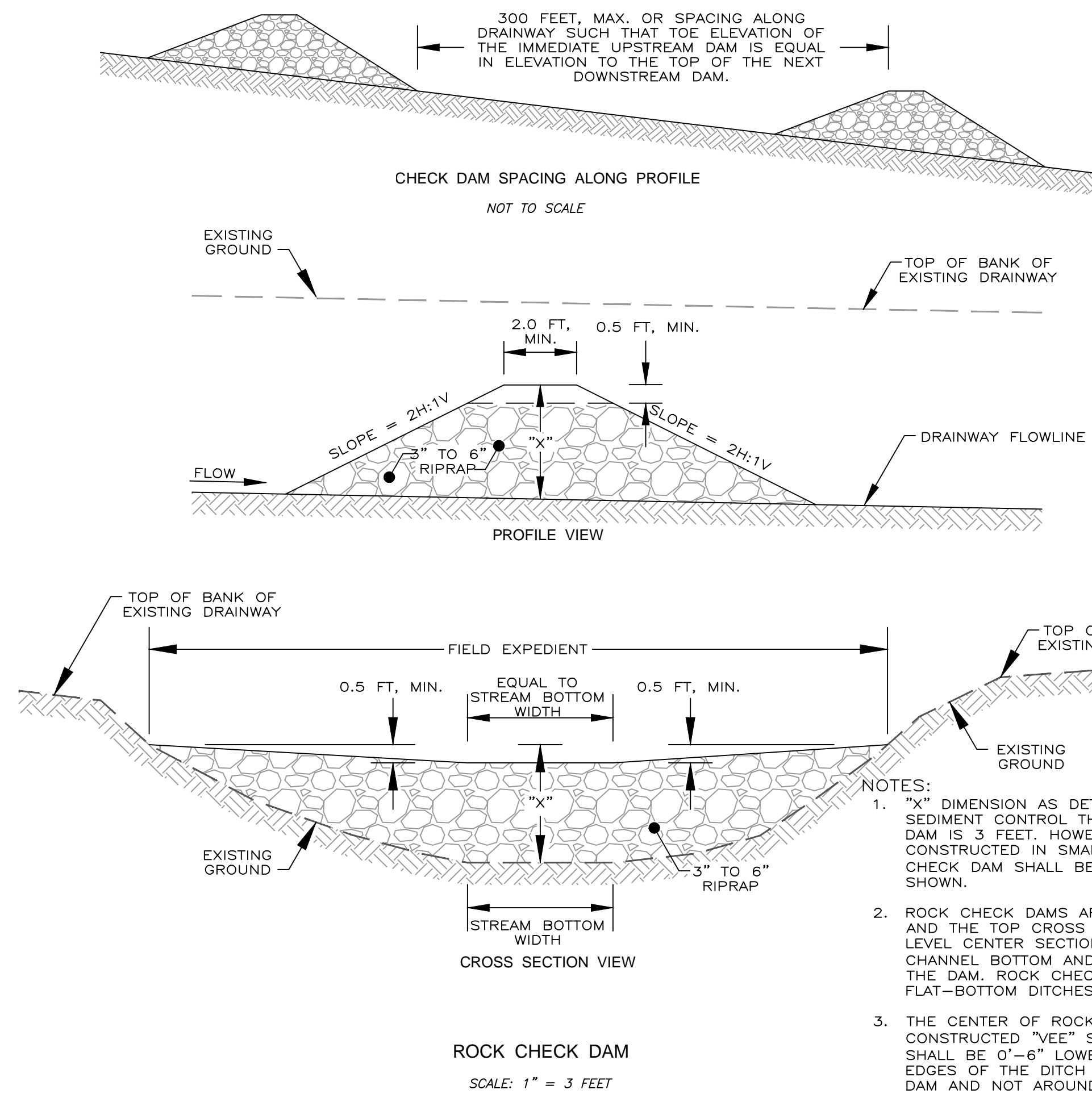
SUGGESTED CONSTRUCTION SEQUENCE AND GENERAL NOTES

1. Reference is made to the Construction Specifications and Design Drawings for detailed work requirements.
2. Contractor to locate all underground utilities prior to beginning work. Contact Miss Utility a minimum of 72 hours prior to beginning work.
3. The contractor will install temporary erosion and sediment control measures prior to beginning any work onsite.
4. The lake will be lowered 10 ft. below the normal pool level of 1646 ft. by pumping prior to beginning work onsite. The drain gate is not operable due to the presence of sediment over the inlet. The contractor will maintain the lowered level throughout construction by pumping so that all work can be performed in the dry.
5. The principal spillway outlet channel located downstream of the dam will be dewatered by pumping. Pump discharge shall be directed to a silt bag as approved by the Engineer prior to release to the stream. Pumping shall continue as required throughout construction so that work can be performed in the dry.
6. The condition of the principal spillway pipe will be investigated in accordance with the specifications.
7. Excavation and fill placement to construct the base grade shall be performed. Rock fill and rip rap materials will be stockpiled for use as new rip rap. Topsoil and excess soil materials not needed for fill will be stockpiled onsite for use as vegetated soil fill. Excess rock materials not needed for rip rap will be placed in the emergency spillway channel downstream of the proposed grouted rip rap as approved by the Engineer.
8. Demolish the principal spillway outlet structure.
9. Slip line the existing principal spillway pipe and extend the pipe downstream to the new dam toe.
10. Construct coarse and fine filters along with perforated drain pipe outlets.
11. Construct the emergency spillway cutoff wall control section. Saw cut rock present in the alignment of the wall prior to hammering to avoid breaking or cracking the adjacent rock formation during excavation. Blasting will not be allowed.
12. Construct RCC armoring and cutoff walls.
13. Place vegetated soil cover. Adjust final grades in the field as approved by the Engineer.
14. Construct grouted rip rap.
15. Seed and Mulch.
16. Remove temporary erosion and sediment control measures after site is re-vegetated in accordance with the WVDEP regulations.

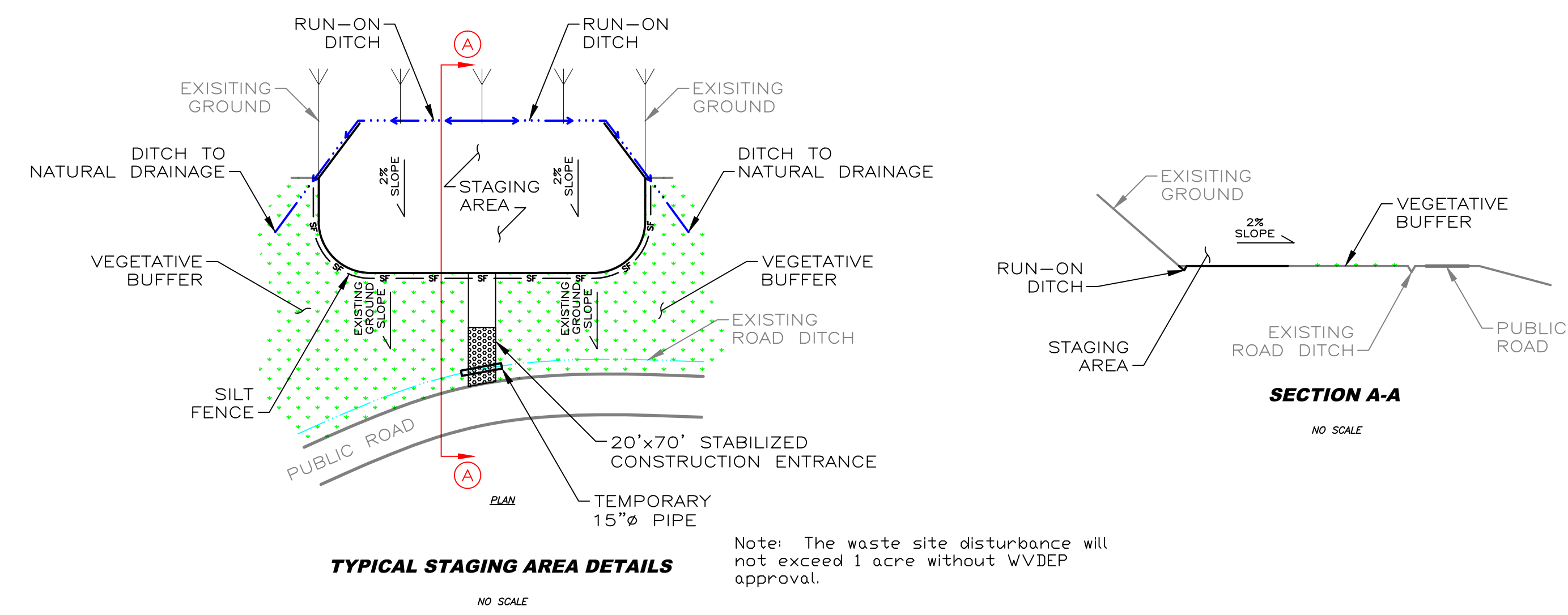
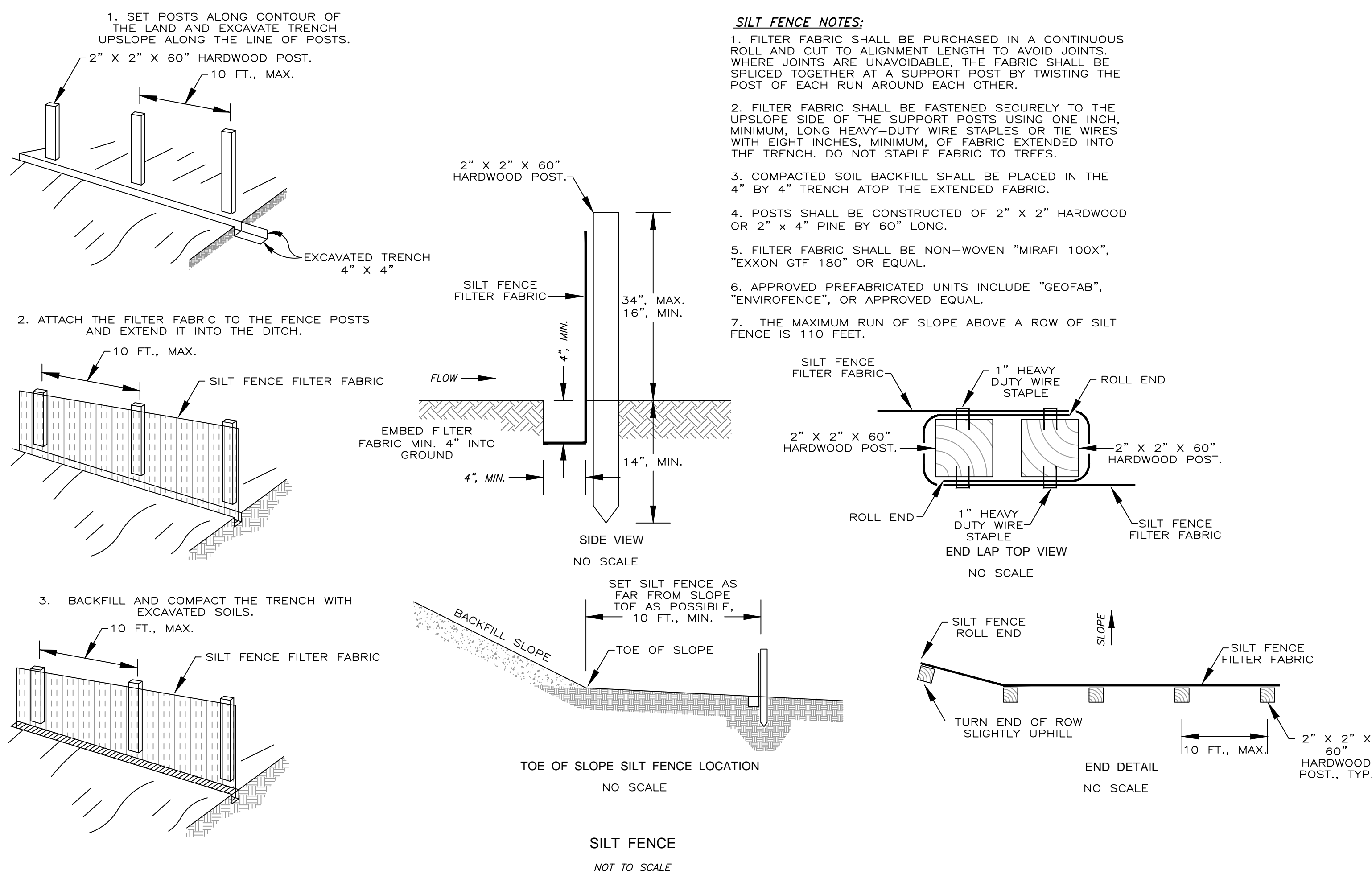
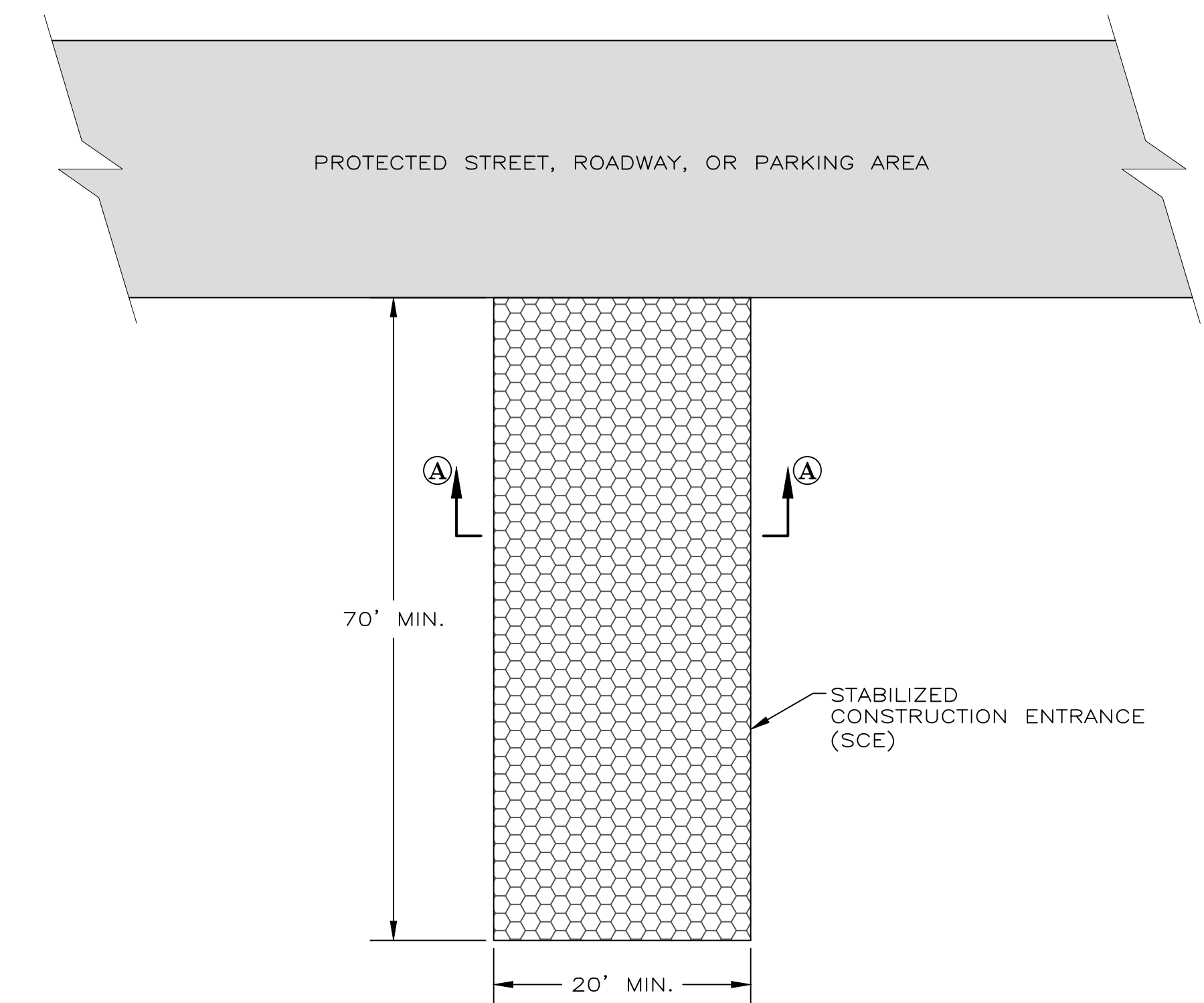
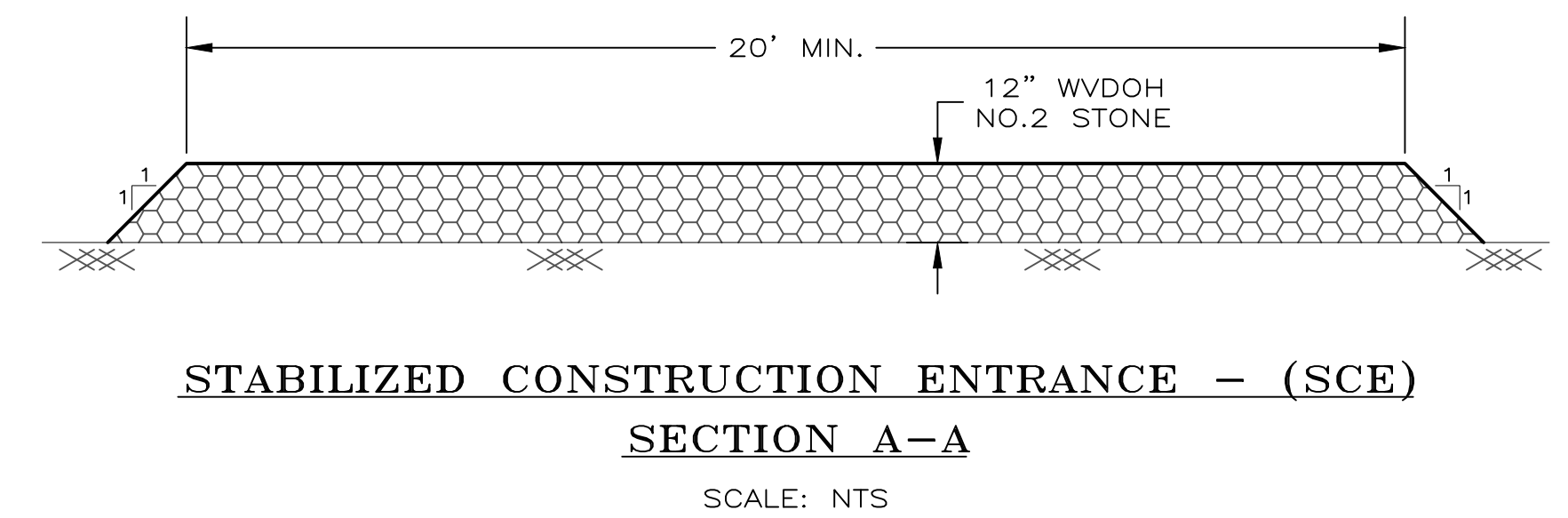
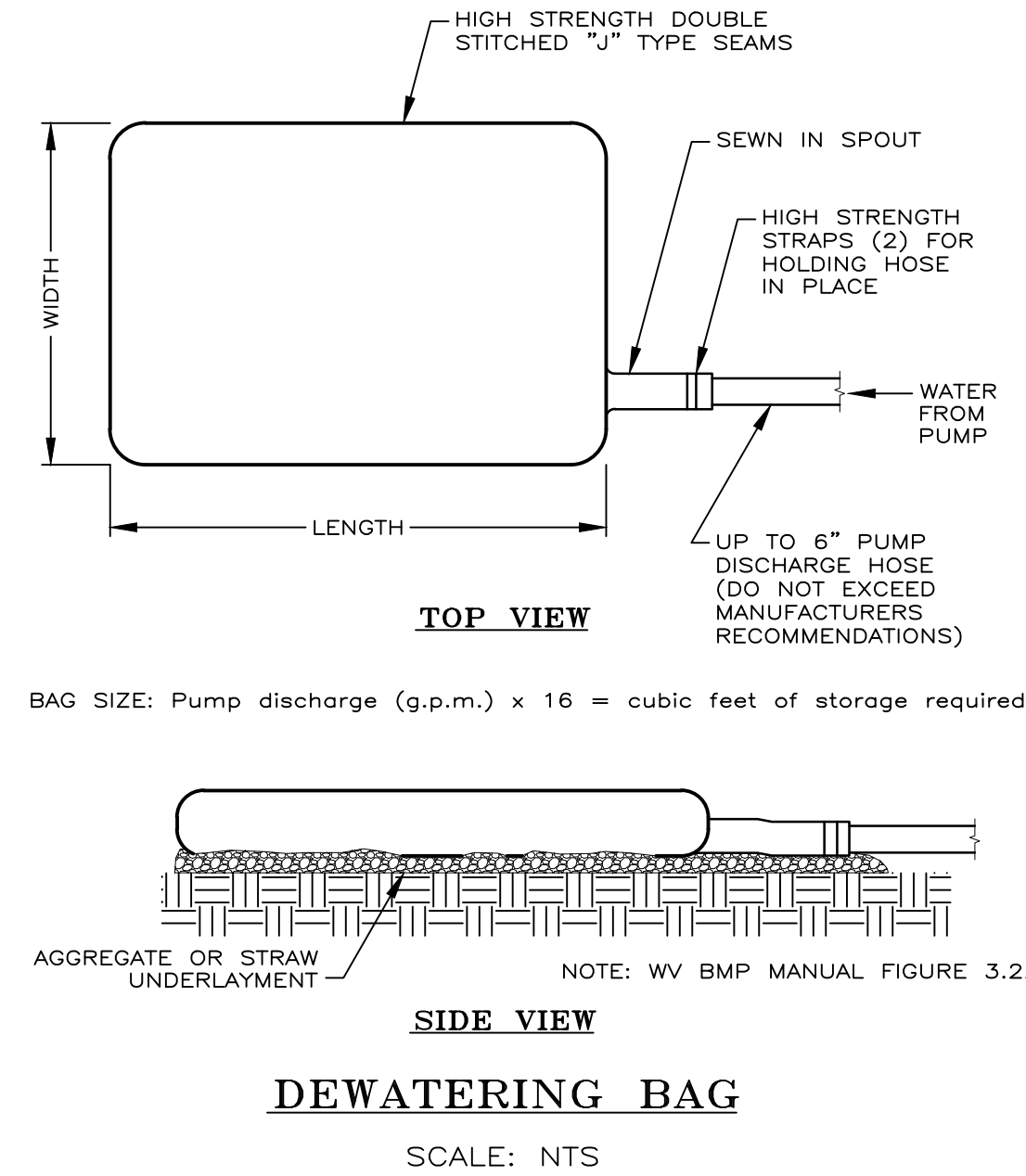
TEMPORARY EROSION & SEDIMENT CONTROL MEASURES PLAN

SCALE: 1" = 40'

REVISIONS
 1-10-2012 CDA SHIFTED ROCK CHECK FROM STA. 7+17 TO 6+87.
 1-10-2012 CDA ADDED LAKE DRAW DOWN PUMP/HOSE/OUTLET LOCATIONS.
 1-10-2012 CDA ADDED DEWATERING PUMP/HOSE/OUTLET LOCATIONS.
 SCALE: AS SHOWN
 DRAWN BY: HNC
 CHECKED BY: MEP
WV PARKS & RECREATION
 SOUTH CHARLESTON, WV
TEMPORARY EROSION & SEDIMENT CONTROL MEASURES PLAN
 BERWIND LAKE DAM MODIFICATION
 BERWIND WILDLIFE MANAGEMENT AREA
CIVIL TECH ENGINEERING, INC.
 HURRICANE, WEST VIRGINIA
 DATE: 2/15/11
 DRAWING NO. 08150-9



- NOTES:**
- "X" DIMENSION AS DETAILED BY THE SPECIFICATIONS, FOR SEDIMENT CONTROL THE MAXIMUM HEIGHT OF THE ROCK CHECK DAM IS 3 FEET. HOWEVER, ROCK CHECK DAMS CAN BE CONSTRUCTED IN SMALLER DITCHES. THE CENTER OF THE ROCK CHECK DAM SHALL BE 0'-6" LOWER THAN THE OUTER EDGES AS SHOWN.
 - ROCK CHECK DAMS ARE NORMALLY INSTALLED IN EXISTING DRAINS AND THE TOP CROSS SECTION OF THE DAM SHOULD HAVE A LEVEL CENTER SECTION THE SAME WIDTH AS THE EXISTING CHANNEL BOTTOM AND 0'-6" LOWER THAN THE OUTER EDGES OF THE DAM. ROCK CHECK DAMS PLACED IN PROJECT CONSTRUCTED FLAT-BOTTOM DITCHES SHALL HAVE SIMILAR DIMENSIONS.
 - THE CENTER OF ROCK CHECK DAMS CONSTRUCTED IN PROJECT CONSTRUCTED "VEE" SHAPED OR EXISTING "VEE" SHAPED DITCHES SHALL BE 0'-6" LOWER THAN AND SLOPED TO THE OUTER TOP EDGES OF THE DITCH SO HIGH FLOWS GO OVER THE TOP OF THE DAM AND NOT AROUND THE EDGES.
 - ROCK CHECK DAMS SHALL BE REMOVED AFTER THE FIRST GROWING SEASON.



REVISIONS	12.05.2011 CDA	ADDED TYPICAL STAGING AREA DETAIL.
	1.10.2012 CDA	ADDED DEWATERING BAG DETAIL.
SCALE: AS SHOWN	DRAWN BY: HNC	
	CHECKED BY: MEP	
WV PARKS & RECREATION SOUTH CHARLESTON, WV		
TEMPORARY EROSION & SEDIMENT CONTROL MEASURES DETAILS BERWIND LAKE DAM MODIFICATION BERWIND WILDLIFE MANAGEMENT AREA		
CIVIL TECH ENGINEERING, INC. HURRICANE, WEST VIRGINIA		
DATE	2/15/11	
DRAWING NO.	08150-10	