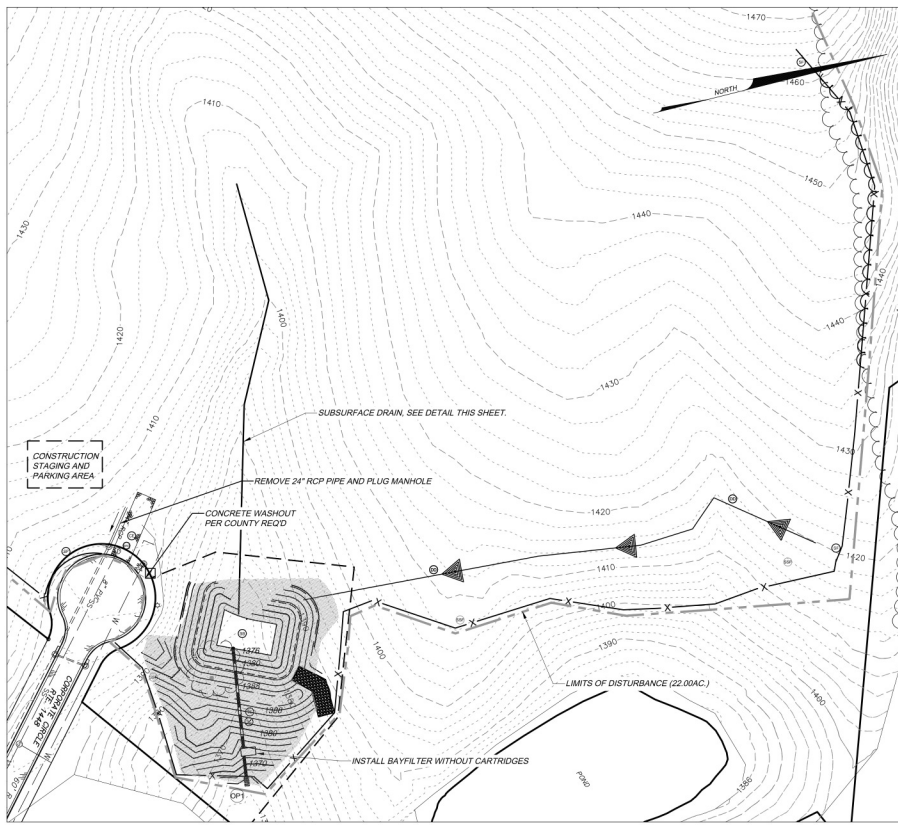
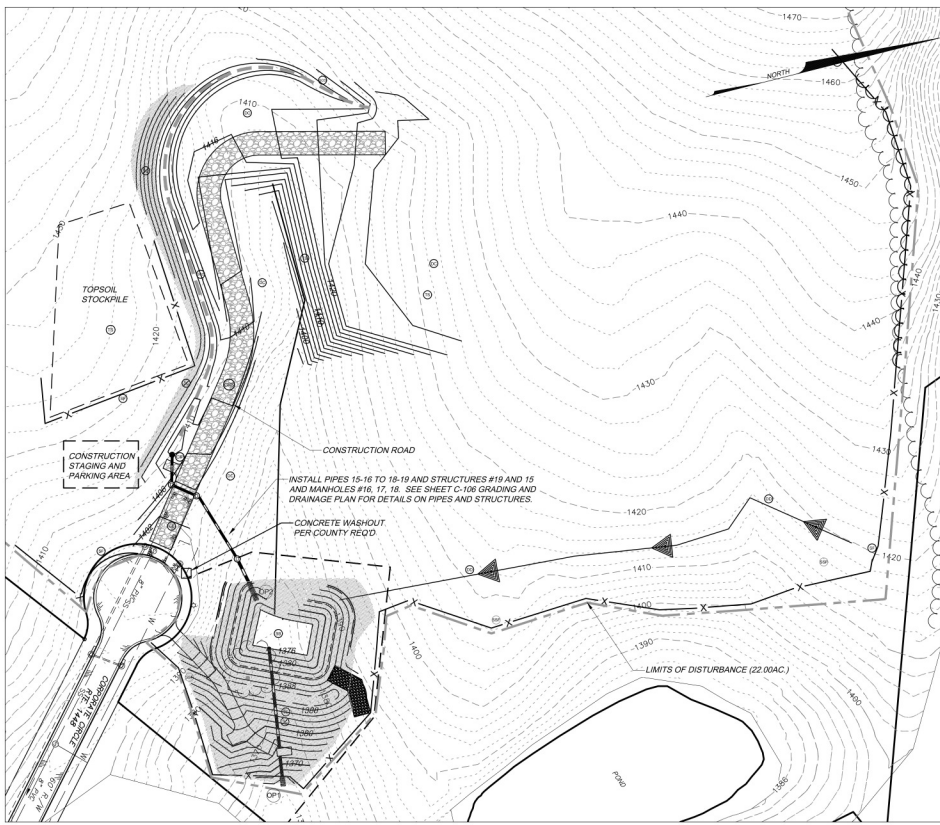


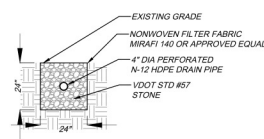
THIS SHEET IS INTENDED TO BE REPRODUCED AT 20"X30" REPRODUCTION OF THIS SHEET AS A SEPARATE SHEET. THIS SHEET SHALL BE USED IN CONJUNCTION WITH THE SCALE SHOWN ON THE SHEET.



EROSION CONTROL STAGE 1



EROSION CONTROL STAGE 2



SUBSURFACE DRAIN DETAIL
NTS

SEDIMENT BASIN TABLE (3.18) (S)

Sediment Basin Calculation Summary		
Drainage Area	AC	19.2
Dry Storage Volume Req'd	CY	1286
Dry Storage Volume Provided	CY	1286
Wet Storage Volume Req'd	CY	1286
Wet Storage Volume Provided	CY	1294
Length to Width Ratio		105'x80'
Number of Anti-Seep Collars		3

SEE SHEET C-703 FOR SEDIMENT BASIN DETAILS

EASC STAGE 1

1. CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND NOTIFY COUNTY OF ROANOKE PRIOR TO BEGINNING WORK.
2. A PRE-CONSTRUCTION CONFERENCE IS REQUIRED. CONTACT ROANOKE COUNTY TO SCHEDULE. LIMITS OF DISTURBANCE SHALL BE CLEARLY MARKED ALONG WITH ANY CRITICAL AREAS.
3. INSTALL CONSTRUCTION ENTRANCE AND PERIMETER SILT FENCE.
4. INSTALL SUBSURFACE DRAIN TO PROVIDE GROUNDWATER A ROUTE TO THE POND.
5. BEGIN INSTALLATION OF POND EMBANKMENT AND OUTLET PIPE PER PLANS. BAYFILTER VAULT SHALL BE INSTALLED AT THIS TIME WITHOUT FILTER CARTRIDGES PER MANUFACTURER'S INSTRUCTIONS, ALLOWING BASIN TO DRAIN THROUGH BYPASS SYSTEM.
6. ALL SLOPES 3:1 OR GREATER SHALL RECEIVE BLANKET/MATTING.
7. PROVIDE OUTLET PROTECTION FOR BASIN OUTLET PIPE.
8. CONSTRUCT DIVERSION DIKE TO ROUTE FLOW INTO BASIN.
9. BEGIN TOPSOIL STRIPPING, CLEARING AND GRUBBING.
10. PROVIDE CONCRETE WASHOUT NEAR SITE ENTRANCE.

EASC STAGE 2

1. AS TOPSOIL IS STRIPPED, PLACE IN STOCKPILE AS SHOWN ON PLANS. ANY WASTE MATERIAL EXPORTED FROM THE SITE SHALL BE TAKEN TO A PERMITTED LOCATION. CONTRACTOR IS RESPONSIBLE SECURING PERMITS FOR ANY OFFSITE WORK.
2. INSTALL PIPE SYSTEM FROM BASIN OUTLET STRUCTURE 15 TO PIPE INLET 19. STRUCTURE TOPS FOR INLETS 16, 17, AND 18 DO NOT NEED TO BE INSTALLED AT THIS TIME BUT MANHOLES SHALL BE INSTALLED ABOVE GRADE AND COVERED FOR SAFETY REASONS.
3. INSTALL CULVERT INLET PROTECTION DEVICE AT STRUCTURE 19.
4. INSTALL CONSTRUCTION ROAD AND BEGIN GRADING/STORMWATER CONVEYANCE CHANNEL TO CONVEY OFFSITE RUNOFF THROUGH CULVERT INLET PROTECTION DEVICE TO SEDIMENT BASIN.
5. PROVIDE CONSTRUCTION ROAD STABILIZATION AND DUST CONTROL ON CONSTRUCTION ROAD.
6. BEGIN BULK GRADING OF SITE, CUTTING FROM THE WESTERN SIDE AND FILLING LOW AREAS OVER THE SUBSURFACE DRAIN, WORKING DOWN TOWARD BASIN.
7. ALL SLOPES 3:1 OR GREATER SHALL RECEIVE BLANKET/MATTING.
8. PROVIDE TEMPORARY SEEDING AS REQUIRED TO STABILIZE DENUDATED AREAS.

ID	OP1	OP2	OP3	OP4
DESIGN FLOW	14.6cfs	8.8cfs	7.5cfs	8.0cfs
TAILWATER DEPTH	1.0'	1.7'	1.0'	1.5'
DISCHARGE VELOCITY	18.1fps	4.0fps	4.9fps	3.8fps
RIP RAP GRADATION	Class 1A	Class 1A	Class 1A	Class 1A
APRON LENGTH	12.0'	8.0'	7.0'	6.0'
APRON WIDTH(S)	7.5', 7.5'	6.0', 6.0'	4.5', 4.5'	6.0', 6.0'
SIDE SLOPES	48/1	48/1	48/1	48/1
APRON DEPTH	12"	12"	12"	12"

NOTE: THE LOCATION OF ALL OFF-SITE FILL OR BORROW AREAS ASSOCIATED WITH THE CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT. AN EROSION CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THIS AREA.

*LIMITS OF DISTURBANCE: (22.00 AC.)
0.70 AC. LINEAR UTILITY DISTURBANCE
21.30 SITE DISTURBANCE

VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES
* CHART TAKEN FROM THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (JULY 1992)

- (SE) TEMPORARY CONSTRUCTION ENTRANCE (3.02)
- (RE) CONSTRUCTION ENTRANCE STABILIZATION (3.03)
- (SF) SILT FENCE (3.06) (WR) WIRE REINFORCED SILT FENCE (3.05)
- (DD) DIVERSION DIKE (3.09)
- (FD) FILL DIVERSION (3.10)
- (SB) TEMPORARY SEDIMENT BASIN (3.14)
- (CP) OUTLET PROTECTION (3.18)
- (RD) ROCK CHECK DAMS (3.20)
- (SR) SURFACE ROUGHENING (3.29)
- (TS) TEMPORARY SEEDING (3.31)
- (PS) PERMANENT SEEDING (3.32)
- (ML) MULCHING (3.35)
- (BL) SOIL STABILIZATION BLANKETS & MATTING (3.36)
- (DC) DUST CONTROL (3.39)
- (SM) SOIL STABILIZATION BLANKETS & MATTING (3.36)

THE ENGINEER AND/OR SURVEYOR TAKES NO RESPONSIBILITY FOR THE LOCATION OR ACCURACY OF THE UTILITIES AS SHOWN HEREON OR ANY UTILITIES WITHIN THE PROJECT THAT MAY NOT BE SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO SEE IF ANY UTILITIES EXIST WITHIN THE AREA OF THE PROJECT BEFORE ANY CONSTRUCTION BEGINS. ANY COST INCURRED BY DAMAGING ANY UTILITY WITHIN THE PROJECT SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

48 WORKING HOURS PRIOR TO STARTING THE WORK, THE CONTRACTOR SHALL CALL MISS UTILITY AT PHONE NUMBER 611 AND ADVISE THE NATURE AND LOCATION OF THE WORK.

HURT & PROFFITT
INSPIRED / RESPONSIVE / TRUSTED

434.847.7796
2524 LANCHORNE ROAD
LYNCHBURG, VA 24501
OFFICE: 434.847.7796
CELL: 434.847.7796
FAX: 434.847.7796
WWW.HURTANDPROFFITT.COM
CONSTRUCTION SERVICES & SUBCONTRACTOR • CULTURAL RESOURCES

EROSION AND SEDIMENT CONTROL STAGE 1 & 2

FOR

AEP PROJECT BROOK TROUT

ROANOKE COUNTY, VIRGINIA

PROJECT NO. 20190196
LAT. 37.267010°
LONG. -80.171511°
DATE: 08/20/2019
DRAWN BY: ELC
CHECKED BY: PSB

SIGNATURE SET

0 30 60 120
SCALE 1" = 60'

HURT & PROFFITT

SHEET NO. C-102
REV.

APPROVED, 1/17/2020