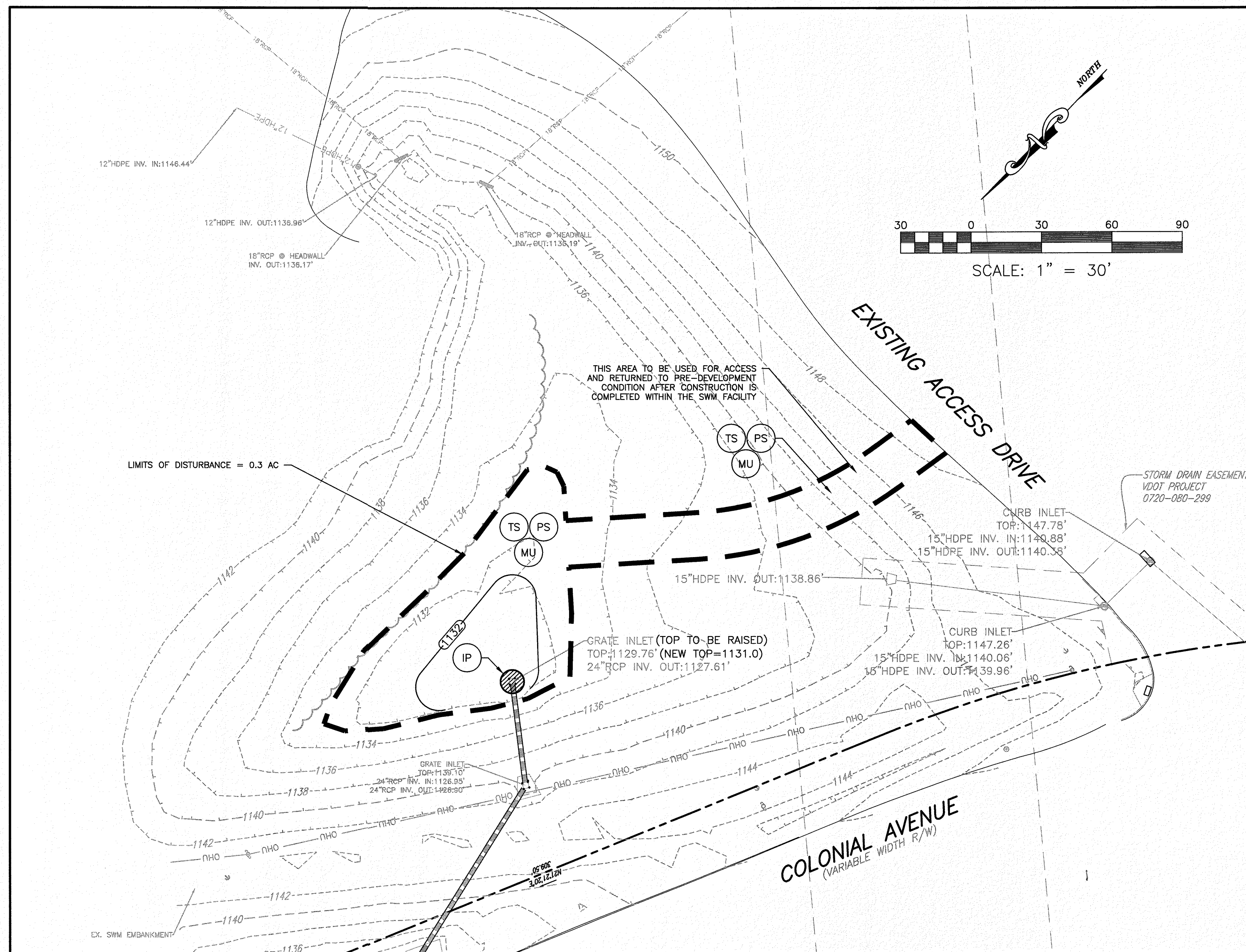


PLAN VIEW



SWM FACILITY ESC SEQUENCE

- ACCESS TO THE SWM FACILITY SHALL BE FROM THE EXISTING ACCESS DRIVE.
- THE EXISTING INLET SHALL BE RAISED AS INDICATED ON THE PLANS. INLET PROTECTION SHALL BE INSTALLED ON THE EXISTING INLET IMMEDIATELY AFTER THE TOP IS ADJUSTED.
- THE BOTTOM OF THE POND SHALL BE REGRADED TO MEET THE NEW INLET ELEVATION AND PROVIDE A MINIMUM 2% SLOPE ACROSS THE BOTTOM OF THE POND.
- AFTER REACHING FINAL GRADE, ALL DISTURBED AREAS OF THE POND SHALL RECEIVE PERMANENT SEEDING.
- AFTER ALL DISTURBED AREAS ARE STABILIZED, THE INLET PROTECTION SHALL BE REMOVED.
- G.C. SHALL NOTIFY ROANOKE COUNTY INSPECTOR AND RECEIVE APPROVAL PRIOR TO REMOVAL OF ANY ESC MEASURES.
- LIMITS OF DISTURBANCE SHALL BE STRICTLY ADHERED TO.

STORMWATER SITE STATISTICS

	EXISTING	PROPOSED
TOTAL DISTURBED AREA (AC)	---	5.3
TOTAL SITE AREA (AC)	5.3	5.3
IMPERVIOUS AREA (AC)	2.38	2.60
MANAGED TURF AREA (AC)	2.92	2.70
OPEN SPACE/FOREST (AC)	0.00	0.00
RIGHT OF WAY DISTURBANCE (SF)	---	---
KARST PRESENT (Y/N)	UNDETERMINED	UNDETERMINED

BMP INFORMATION TABLE

	BMP #1	BMP #2
BMP TYPE	NUTRIENT BANK CREDIT	N/A
NAME OF AUTHORIZED NUTRIENT BANK	SAXE NUTRIENT BANK	N/A
REQUIRED PHOSPHORUS TO BE REMOVED (LB/YR)	2.00 LBS	N/A
AMOUNT OF PHOSPHORUS CREDIT PURCHASED (LB/YR)	2.00 LBS	N/A
TECHNICAL REQUIREMENTS MET (PART IIB OR IIC)	PART IIB	PART IIB
TOTAL AREA TREATED (AC)	5.3 AC.	34.09 AC.
IMPERVIOUS AREA TREATED BY BMP (AC)	2.77 AC.	5.06 AC.
MANAGED TURF AREA TREATED BY BMP (AC)	2.53 AC.	13.07 AC.
OPEN SPACE / FOREST AREA TREATED BY BMP (AC)	0.00 AC.	15.96 AC.
SURFACE AREA OF BMP (AC)	N/A	1.258
STORAGE VOLUME OF BMP (AC-FT)	N/A	6.701
QUALITY, QUANTITY, OR BOTH?	QUALITY	QUANTITY
TMDL ADDRESSED? (PHOSPHORUS, BACTERIA, SEDIMENT, ETC)	PHOSPHORUS	N/A
NAME OF RECEIVING WATER (PROJECT SITE)	ROANOKE RIVER - PETERS CREEK	
HYDROLOGIC UNIT CODE FOR PROJECT SITE (ALPHANUMERIC CODE RU14, ETC)	RU14	
MAXIMUM AVERAGE DEPTH (FT)	N/A	7.0
LATITUDE (DECIMAL DEGREES XX.XXXX)	N/A	37.2013
LONGITUDE (DECIMAL DEGREES -XX.XXXX)	N/A	-79.9508

Existing Sanitary Sewer Schedule:

- (S1) Ex. S.S. Manhole
Top=1152.31'
Inv. In=1145.41' (6" PVC)
Inv. Out=1145.39' (8" PVC)
Bench=1145.87'
- (S2) Ex. S.S. Manhole
Top=1156.15'
Drop Invert=1147.90'
Inv. In=1141.10' (6" PVC)
Inv. In=1138.55' (8")
Inv. In=1139.45'
Bench=1140.25'
- (S3) Ex. S.S. Manhole
Top=1155.96'
Inaccessible (Asphalt Covered)
- (S4) Ex. S.S. Manhole
Top=1156.44'
Inv. In=1153.22' (8")
Inv. Out=1153.18' (8")
- (S5) Ex. S.S. Cleanout
Top=1152.34'
Inaccessible (BOLTED)
- (S6) Ex. S.S. Manhole
Top=1147.57'
Inv. In=1144.59'
- (S7) Ex. S.S. Manhole
Top=1147.63'
Inv. In=1143.53'
- (S8) Ex. S.S. Manhole
Top=1152.31'
Inv. In=1142.03' (8" PVC)
Inv. Out=1141.95' (8" PVC)
- (S9) Ex. S.S. Manhole
Top=1159.90' NEW TOP=1158.0
Inv. In=1152.04' (NW)
Inv. In=1154.35' (S)
Inv. Out=1151.94'

Existing Storm Sewer Schedule:

- (A) Approx. Location Ex. Storm m.h. (Plan)
- (B) Ex. Grate Inlet
Top=1147.59'
Inv. In=1144.93'
- (C) Ex. Grate Inlet
- (D) Ex. Grate Inlet (T.B.R.)
Top=1155.88'
Inv. In=1153.59'
- (E) Ex. Grate Inlet (STRUCTURE T.B.R. AND REPLACED WITH VDOT STD. DI-1)
Top=1156.11' NEW TOP 1155.5
Inv. In=1153.36' (6" PVC)
Inv. In=1152.51' (12" RCP) T.B.R.
Inv. In=1152.36' (12" PLASTIC)
Inv. Out=1152.31' (18" RCP)
NEW INV. IN=1153.4 (STR. #17)
- (F) Ex. Storm Manhole
Top=1156.43'
Inv. In=1150.93' (15" RCP)
Inv. In=1150.53' (15" RCP)
Inv. In=1150.33' (12" PVC)
Inv. In=1143.86' (18" RCP)
Inv. Out=1143.83' (18" RCP)
NEW INV. IN=1152.0 (STR. #21)
- (G) Ex. Storm Manhole
Top=1132.36'
Inv. In=1126.72' (18" HDPE)
Inv. Out=1126.64' (24" HDPE)
- (H) Ex. Storm Manhole
Top=1133.51'
Inv. In=1128.06' (18" HDPE)
Inv. Out=1128.01' (18" HDPE)
- (I) Ex. Storm Manhole
Top=1134.69'
Inv. In=1129.24' (18" HDPE)
Inv. Out=1129.19' (18" HDPE)
- (J) Ex. Storm Manhole
Top=1146.77'
Inv. In=1142.47'
Inv. Out=1134.47'
- (K) Ex. Storm Grate Inlet
Top=1161.61'
Inv. In=1157.41'
Inv. Out=1157.41'
- (L) Ex. Storm Manhole
Top=1161.43'
Inv. In=1158.43'
Inv. Out=1158.01'
- (M) Ex. Storm Manhole
Top=1161.45'
Inv. In=1156.05'
- (N) Ex. Grate Inlet
(TO BE CONVERTED TO MH-2 TOP)
Top=1156.35' (NEW TOP=1157.2)
Inv. In=1154.40' (12" PVC)
Inv. In=1153.40' (15" PVC)
Inv. In=1150.85' (16" PVC)
Inv. Out=1152.08' (18" RCP)
Inv. Out=1150.80' (15" RCP)
- (O) Ex. Storm Drop Inlet
Top=1155.79'
Inv. In=1151.32'
- (P) Ex. Storm Manhole
Top=1153.75'
Inv. Out=1151.55' (15" RCP)
- (Q) Ex. Storm Manhole (TOP TO BE ADJUSTED AS NECESSARY)
Top=1159.14'
Inv. In=1150.07' (15" RCP)
Inv. In=1150.04' (15" RCP)
Inv. In=1150.04' (15" RCP)
Inv. Out=1150.01' (18" RCP)
- (R) Ex. Storm Manhole
Top=1161.75'
Inv. In=1151.86'
NEW INV. IN=1153.0 (STR. #16)
- (S) Ex. Storm Manhole
Top=1127.20'
Inv. In=1123.35' (24" HDPE)
Inv. Out=1123.25' (24" HDPE)
- (T) Ex. Storm Manhole
Top=1130.80'
Inv. In=1125.00' (24" HDPE)
Inv. Out=1124.95' (24" HDPE)
- (U) Ex. Storm Grate Inlet
Top=1127.51'
Inv. In=1123.61' (24" RCP)
Inv. Out=1123.51' (24" HDPE)
- (V) Ex. Storm Grate Inlet
Top=1131.54'
Inv. In=1126.04' (24" RCP)
Inv. Out=1124.64' (24" HDPE)
- (W) Ex. Storm Grate Inlet
Top=1144.31'
Inv. Out=1141.41' (15" HDPE)
- (X) Ex. Storm Curb Inlet
Top=1127.51'
Inv. In=1123.51' (24" RCP)
Inv. Out=1123.51' (24" HDPE)
- (Y) Ex. Storm Curb Inlet
Top=1147.26'
Inv. In=1140.06' (15" HDPE)
Inv. Out=1139.96' (15" HDPE)
- (Z) Ex. Storm Grate Inlet
Top=1155.08'
Inv. In=1152.36'
- (A1) Ex. Storm Drop Inlet
Top=1155.91'
Inv. In=1152.31'
- (A2) Ex. Storm Manhole (TOP TO BE ADJUSTED AS NECESSARY)
Top=1157.89'
Inv. In=1155.39'
Inv. Out=1155.35'

STORM STRUCTURE SCHEDULE

- 1 OMITTED
- 2 VDOT STD. DI-1
TOP=1155.7
INV. OUT=1153.3
- 3 35 LF OF 15" TYPE S
HDPE PIPE @ 0.57%
- 4 VDOT STD. DI-1
TOP=1155.5
INV. IN=1153.1
INV. OUT=1153.0
- 5 112 LF OF 15" TYPE S
HDPE PIPE @ 0.53%
- 6 VDOT STD. DI-3A
TOP=1157.0
INV. IN=1153.1 (ROOF LEADER)
INV. OUT=1153.0
- 7 60 LF OF 15" TYPE S
HDPE PIPE @ 0.66%
- 8 VDOT STD. DI-1
TOP=1155.7
INV. IN=1152.6
INV. OUT=1152.5
- 9 78 LF OF 18" TYPE S
HDPE PIPE @ 1.15%
- 10 VDOT STD. DI-1
TOP=1156.4
INV. IN=1151.6
INV. OUT=1151.5
- 11 62 LF OF 18" TYPE S
HDPE PIPE @ 0.65%
- 11A VDOT STD. MH-2
TOP=1157.26
INV. IN=1151.1
INV. OUT=1151.0
- 11B 12 LF OF 18" TYPE S
HDPE PIPE @ 0.82%
INV. OUT=1150.9
- 12 VDOT STD. DI-3A
TOP=1156.9
INV. OUT=1152.5
- 13 9 LF OF 15" TYPE S
HDPE PIPE @ 6.27%
- 14 VDOT STD. MH-2
TOP=1156.8
INV. IN=1151.95
INV. OUT=1151.95
- 15 VDOT STD. DI-3A
TOP=1156.9
INV. OUT=1153.3
- 16 28 LF OF 15" TYPE S
HDPE PIPE @ 1.07%
- 17 80 LF OF 12" TYPE S
HDPE PIPE @ MIN. 1% W/
NYLOPLAST 12" STD. GRATE INLET
UPPER INV.=1154.2
LOWER INV.=1153.4 (STR. E)
- 18 290 LF OF 12" TYPE S
HDPE PIPE @ 0.75% W/
(6) NYLOPLAST 12" STD. GRATE INLETS
UPPER INV.=1155.1
LOWER INV.=1152.75
- 19 73 LF OF 12" TYPE S
HDPE PIPE @ MIN. 1% W/
(1) NYLOPLAST 12" STD. GRATE INLET
UPPER INV.=1155.1
LOWER INV.=1153.1
- 20 130 LF OF 12" TYPE S
HDPE PIPE @ MIN. 1% W/
NYLOPLAST 12" STD. GRATE INLET &
NYLOPLAST CLEANOUT
UPPER INV.=1150.0
LOWER INV.=1145.0
- 21 145 LF OF 12" TYPE S
HDPE PIPE @ MIN. 1% W/
(1) NYLOPLAST CLEANOUT &
(3) NYLOPLAST 12" STD. GRATE INLETS
UPPER INV.=1154.5
LOWER INV.=1152.0 (STR. F)