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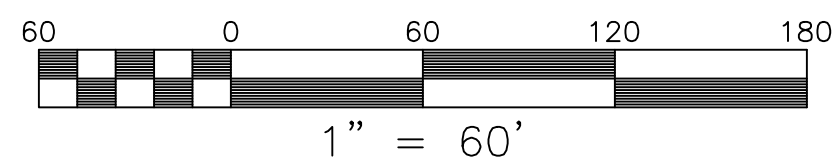
RWW36 LLC FALLING BRANCH MASS GRADING PLAN

ROANOKE ST & FALLING BRANCH RD S.E.

GRADING PLAN

SHAMSVILLE MAGISTERIAL DISTRICT
TOWN OF CHRISTIANBURG, VIRGINIA

DRAWN BY	WRS
DESIGNED BY	WRS
CHECKED BY	JRT
DATE	12/02/2022
SCALE	1" = 60'
REVISIONS	
2/1/2023	
02/13/2023	
02/17/2023	



Michael Kelley

02/24/2023
3:31:25 PM
Date

APPROVED: Engineering

Benjamin Tripp

02/24/2023
3:29:16 PM
Date

APPROVED: Planning

D-1
DRAINAGE AREA=6.73 AC.
MIN. CONSTRUCTED DEPTH = 1.5 FT
PROFILE GRADE = 2.10%
LINING=EC-3 (TREATMENT 2)
Q₂ =11.22 cfs
V₂ =4.20 fps
Q₁₀ =14.98 cfs
D₁₀ =1.05 ft

D-2A
DRAINAGE AREA=4.91 AC.
MIN. CONSTRUCTED DEPTH = 3.5 FT
PROFILE GRADE = 2.00%
LINING=EC-3 (TREATMENT 2)
Q₂ =6.92 cfs
V₂ =3.78 fps
Q₁₀ =9.34 cfs
D₁₀ =0.96 ft

D-2B
DRAINAGE AREA=5.23 AC.
MIN. CONSTRUCTED DEPTH = 4.0 FT
PROFILE GRADE = 2.75%
LINING=EC-3 (TREATMENT 2)
Q₂ =7.36 cfs
V₂ =4.49 fps
Q₁₀ =9.92 cfs
D₁₀ =1.01 ft