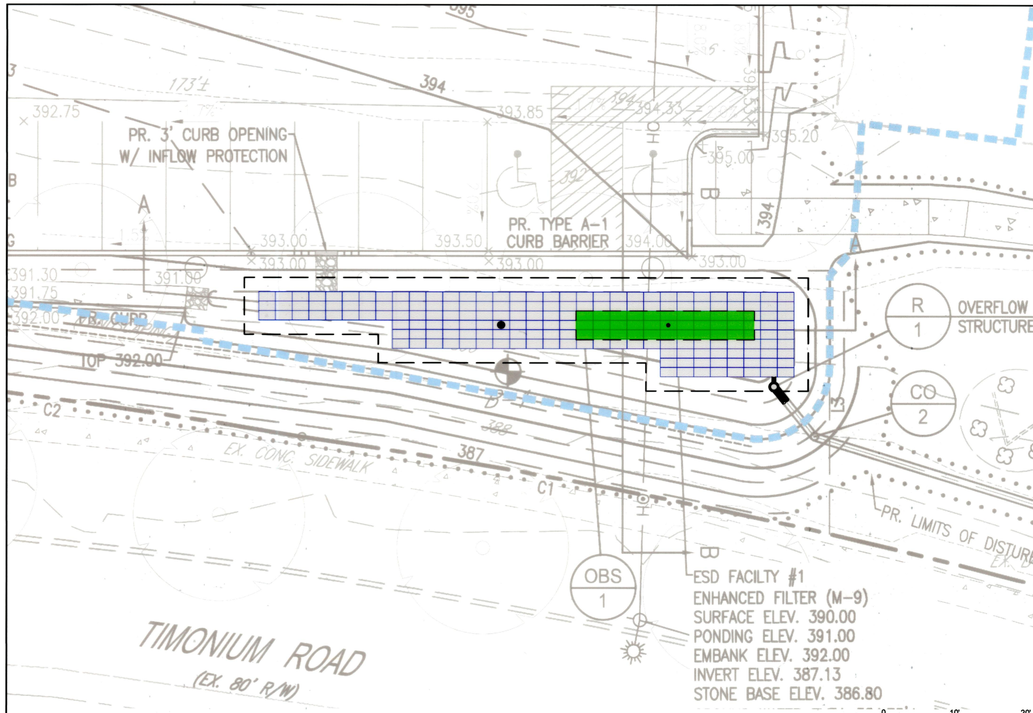


FOCALPOINT SYSTEM OVERLAY
SCALE: 1" = 10'

FocalPoint BIOFILTRATION SYSTEMS

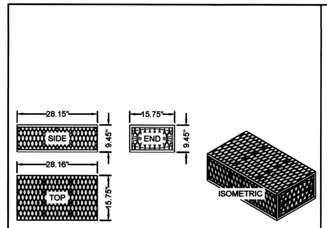
ENGINEER OF RECORD TO REVIEW, APPROVE AND ENDORSE FINAL SITE SPECIFIC DESIGN.

FOR ADDITIONAL INFORMATION PLEASE CONTACT ACF ENVIRONMENTAL 1-800-448-3836 www.acfenvironmental.com

ACF ENVIRONMENTAL LET'S GET IT DONE

FOCALPOINT SYSTEM OVERLAY
THE AGAPE CHRISTIAN CHURCH
TIMONIUM, MD
SITE DESIGNATION: ESD FACILITY #1
ACF ENVIRONMENTAL, 1-800-448-3836, www.acfenvironmental.com

DRAWN BY: EDQ
DATE: 08/19/21
SHEET NO.: 1 of 8

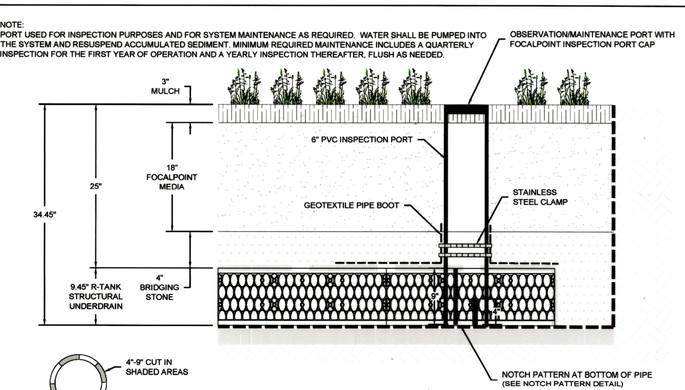


MODULE DATA

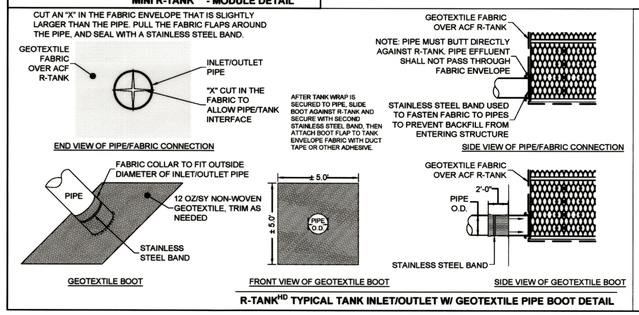
GEOMETRY:	**LOAD RATING:**
LENGTH = 28.15 IN. (715 MM)	42.9 PSI. (MODULE ONLY)
WIDTH = 15.75 IN. (400 MM)	HS25. (WITH ACF COVER SYSTEM)
HEIGHT = 9.45 IN. (240 MM)	**MATERIAL:**
TANK VOLUME = 2.42 CF	100% RECYCLED POLYPROPYLENE
STORAGE VOLUME = 2.30 CF	**SMALL PLATES PER**
VOID INTERNAL VOLUME: 95%	**SEGMENT/TOTAL:**
VOID SURFACE AREA: 90%	5/5

MINI R-TANK^{HD} - MODULE DETAIL

NOTE:
PORT USED FOR INSPECTION PURPOSES AND FOR SYSTEM MAINTENANCE AS REQUIRED. WATER SHALL BE PUMPED INTO THE SYSTEM AND RESUSPEND ACCUMULATED SEDIMENT. MINIMUM REQUIRED MAINTENANCE INCLUDES A QUARTERLY INSPECTION FOR THE FIRST YEAR OF OPERATION AND A YEARLY INSPECTION THEREAFTER, FLUSH AS NEEDED.



FOCALPOINT OBSERVATION & MAINTENANCE PORT DETAIL



R-TANK^{HD} TYPICAL TANK INLET/OUTLET W/ GEOTEXTILE PIPE BOOT DETAIL

R-TANK^{HD} QUANTITIES

R-TANK^{HD} MODULE TYPE	MINI
# OF MINI R-TANKS	192
TOTAL SYSTEM STORAGE	811 CF
R-TANK STORAGE VOLUME	442 CF
STONE STORAGE VOLUME (40% VOID RATIO)	369 CF
STONE BED FOOTPRINT	955 SF
STONE QUANTITY	34 CY
ACF FP-100 MICROGRID (UNDER FOCALPOINT)	186 SF (21 SY)
M200 WOVEN GEOTEXTILE TANK WRAP	1,517 SF (169 SY)
M200 WOVEN GEOTEXTILE EXCAVATION WRAP	1,416 SF (157 SY)
6" FOCALPOINT INSPECTION PORT	1
12" MAINTENANCE PORTS	1
6" PIPE BOOTS	1
NOTE: STONE QUANTITY INCLUDES 6" OF COVER AND 4" OF BASE.	
NOTE: GEOTEXTILE / LINER QUANTITIES INCLUDE A 15% WASTE FACTOR.	

FocalPoint BIOFILTRATION SYSTEMS

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ACF ENVIRONMENTAL LET'S GET IT DONE

FOCALPOINT SYSTEM DETAILS
THE AGAPE CHRISTIAN CHURCH
TIMONIUM, MD
SITE DESIGNATION: ESD FACILITY #1
ACF ENVIRONMENTAL, 1-800-448-3836, www.acfenvironmental.com

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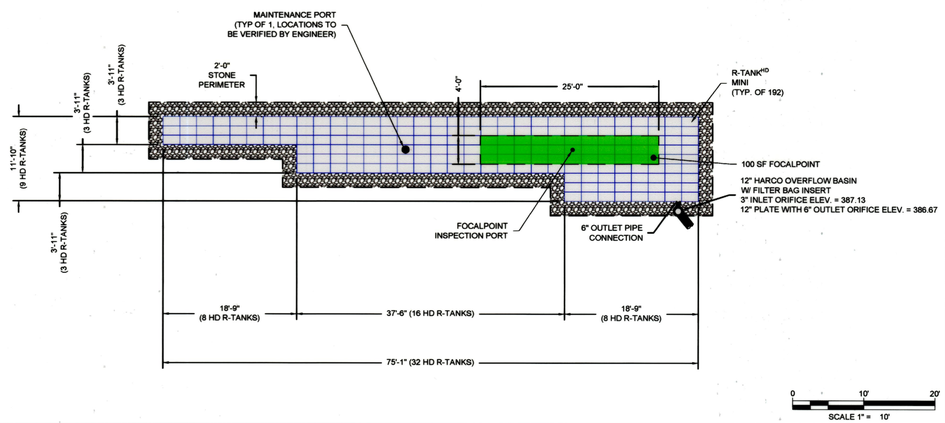
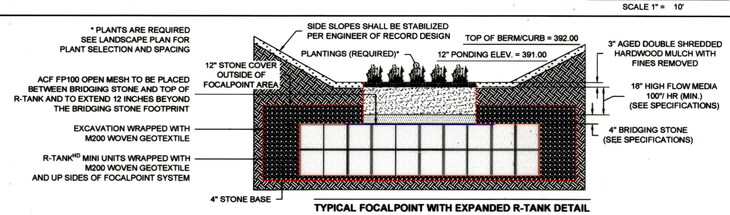


LAYOUT SCALE	1" = 10'
FOCALPOINT FILTER SURFACE AREA	100 SF
TOP OF MULCH ELEVATION	390.00
TOP OF MEDIA ELEVATION	389.75
DEPTH OF MEDIA	18"
TOP OF BRIDGING STONE ELEVATION	388.25
TOP OF R-TANK UNDERDRAIN ELEV.	387.92
R-TANK UNDERDRAIN INVERT	387.13
INVERT OF STONE BASE (4")	386.80
R-TANK^{HD} MODULE TYPE	MINI
# OF MINI R-TANKS	192
TOTAL R-TANK SYSTEM STORAGE	811 CF
R-TANK STORAGE VOLUME	442 CF
STONE STORAGE VOLUME (40% VOID RATIO)	369 CF



TYPICAL FOCALPOINT WITH EXPANDED R-TANK DETAIL
(ACTUAL MODULE HEIGHT VARIES)

FocalPoint BIOFILTRATION SYSTEMS

ENGINEER OF RECORD TO REVIEW, APPROVE AND ENDORSE FINAL SITE SPECIFIC DESIGN.

FOR ADDITIONAL INFORMATION PLEASE CONTACT ACF ENVIRONMENTAL 1-800-448-3836 www.acfenvironmental.com

ACF ENVIRONMENTAL LET'S GET IT DONE

FOCALPOINT SYSTEM LAYOUT
THE AGAPE CHRISTIAN CHURCH
TIMONIUM, MD
SITE DESIGNATION: ESD FACILITY #1
ACF ENVIRONMENTAL, 1-800-448-3836, www.acfenvironmental.com

DRAWN BY: EDQ
DATE: 08/19/21
SHEET NO.: 2 of 8

DESIGN AND DRAWINGS ARE BASED ON MARYLAND COORDINATE SYSTEM (MCS).
HORIZONTAL – NAD 83/(2011).
VERTICAL – NAVD 88.

KEYSHEET: SNE
POSITION SHEET: 54 NW 2
COUNCILMANIC DISTRICT: 3
ELECTION DISTRICT: 8

APPROVED:_____ Chief
STORMWATER MANAGEMENT DIVISION
BALTO. CO. DEPT. OF
ENVIRONMENTAL PROTECTION
AND SUSTAINABILITY

OWNER / DEVELOPER

THE AGAPE CHRISTIAN CHURCH INC.
100 E. TIMONIUM ROAD
TIMONIUM, MARYLAND 21093
CONTACT: CHIMA UGAH
PHONE: (410) 252-4255
EMAIL: CHIMAUGAH@GMAIL.COM

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NUMBER 46853, EXPIRATION DATE: 06-11-2023.

MARYLAND NO. 46853 REGISTERED PROFESSIONAL ENGINEER
10-6-2021

Richardson Engineering, LLC
7 Deneison Street
Timonium, Maryland 21093
Phone: 410-560-1502 Fax: 443-901-1208
MARK@RICHARDSONENGINEERING.NET

FINAL STORMWATER MANAGEMENT
ENVIRONMENTAL SITE DESIGN
MANUFACTURER SPECIFICATIONS, NOTES & DETAILS 1

100 E TIMONIUM ROAD

TIMONIUM, MARYLAND 21093

BALTIMORE COUNTY — MARYLAND
8TH ELECTION DISTRICT — 3RD COUNCILMANIC DISTRICT

REVISIONS	DRAWN BY:	CHECKED BY:	SCALE:
	MAV	PCR	AS SHOWN
	DATE: 10-6-2021	JOB NO.: 19213	SHEET NO.: 7 OF 9