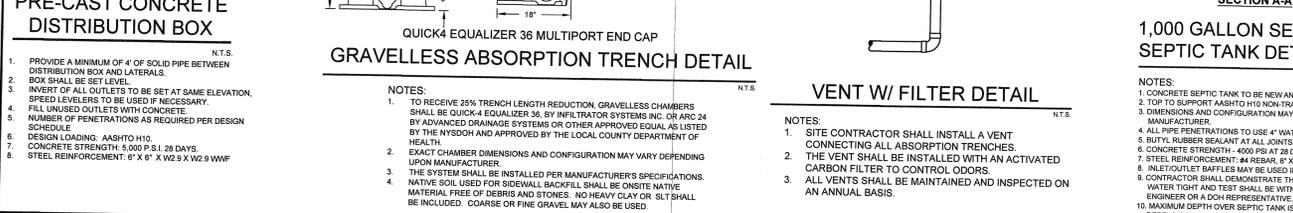
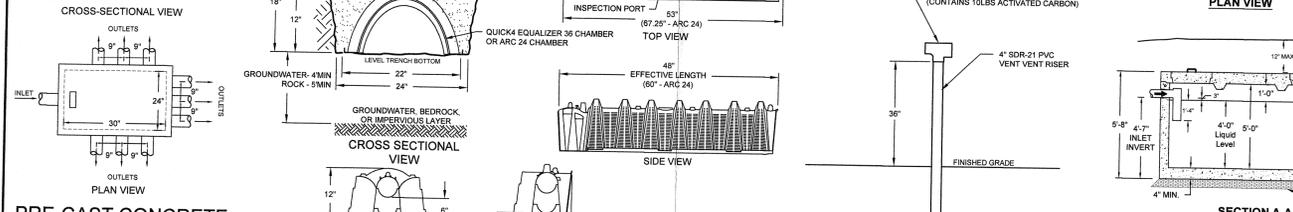
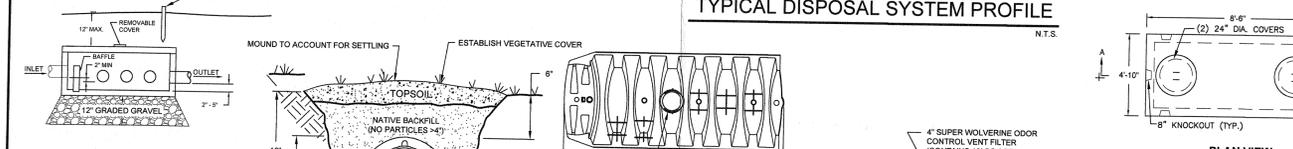
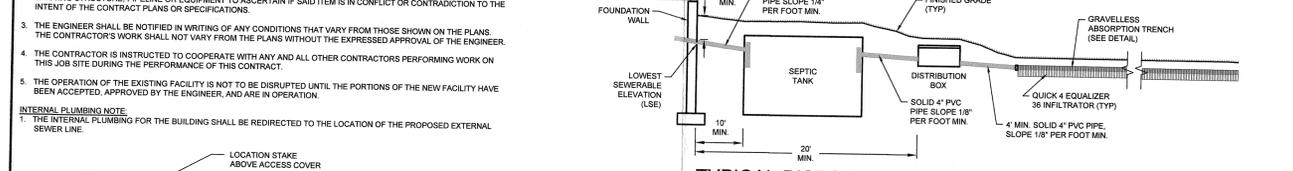


EXISTING CONDITION NOTES:

- THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA. EXACT LOCATIONS OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR APPROXIMATE LOCATIONS OF SUCH PIPES, LINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY NOT BE SHOWN, AND IT SHALL BE HIS CONTRACTOR'S RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK.
- PRIOR TO THE INSTALLATION OF ANY NEW STRUCTURE, PIPELINE OR EQUIPMENT WHICH REQUIRES CONNECTION TO OR CROSSING OF ANY EXISTING STRUCTURE, PIPELINE OR EQUIPMENT, THE CONTRACTOR IS DIRECTED TO LOCATE SUCH EXISTING STRUCTURE, PIPELINE OR EQUIPMENT TO ASCERTAIN IF SAID ITEM IS IN CONFLICT OR CONTRADICTION TO THE INTENT OF THE CONTRACT PLANS OR SPECIFICATIONS.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
- THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
- THE OPERATION OF THE EXISTING FACILITY IS NOT TO BE INTERRUPTED UNTIL THE PORTIONS OF THE NEW FACILITY HAVE BEEN ACCEPTED, APPROVED BY THE ENGINEER, AND ARE IN OPERATION.

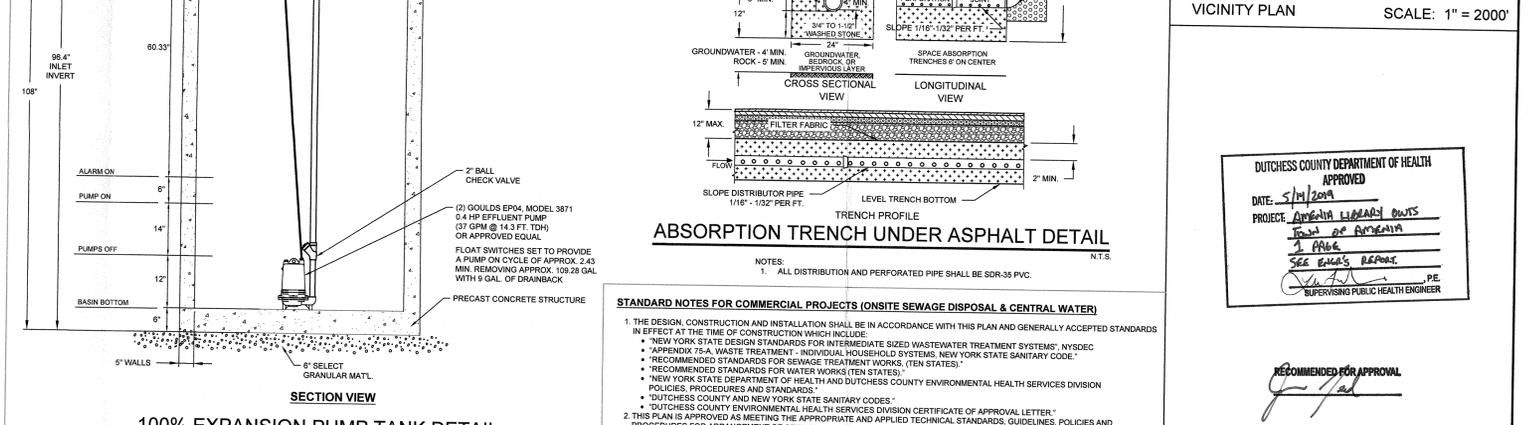
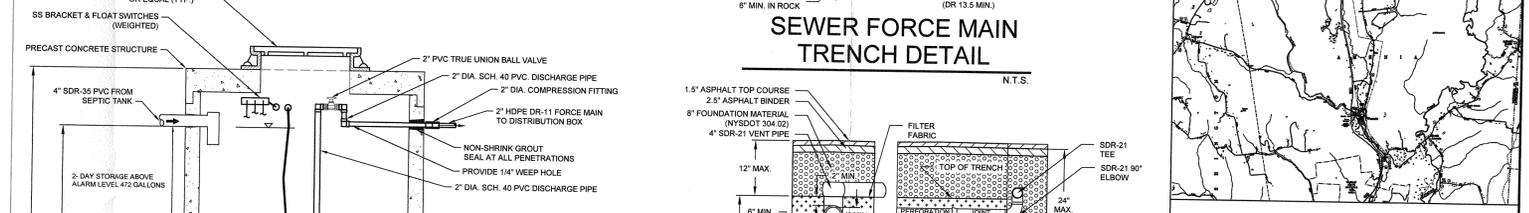
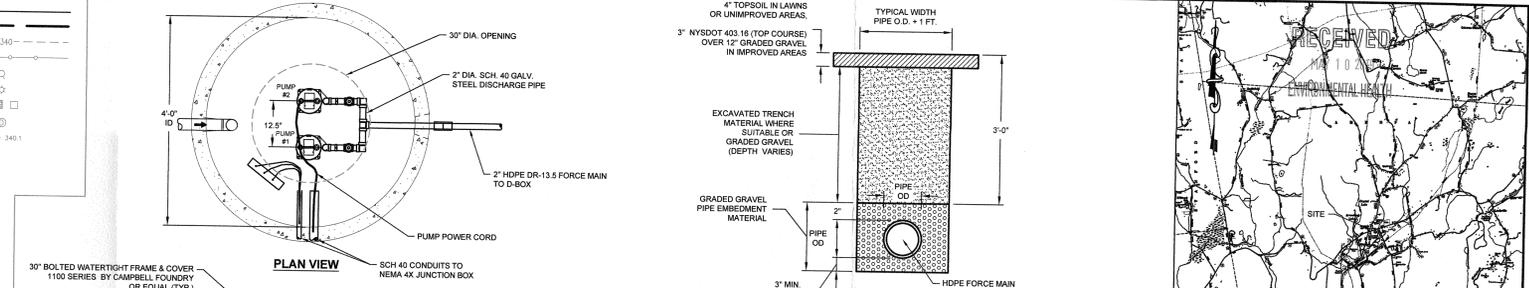
INTERNAL PLUMBING NOTE:

- THE INTERNAL PLUMBING FOR THE BUILDING SHALL BE REDIRECTED TO THE LOCATION OF THE PROPOSED EXTERNAL SEWER LINE.



NOTES:

- TO RECEIVE 25% TRENCH LENGTH REDUCTION, GRAVELLESS CHAMBERS SHALL BE QUICK4 EQUALIZER 36, BY INFILTRATOR SYSTEMS INC. OR ARC 24 BY ADVANCED DRAINAGE SYSTEMS OR OTHER APPROVED EQUAL AS LISTED BY THE NYSDOH AND APPROVED BY THE LOCAL COUNTY DEPARTMENT OF HEALTH.
- EXACT CHAMBER DIMENSIONS AND CONFIGURATION MAY VARY DEPENDING UPON MANUFACTURER.
- THE SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. NATIVE SOIL USED FOR SIDEWALL BACKFILL SHALL BE ONSITE NATIVE MATERIAL FREE OF DEBRIS AND STONES. NO HEAVY CLAY OR SILT SHALL BE INCLUDED. COARSE OR FINE GRAVEL MAY ALSO BE USED.



LEGEND

- EXISTING PROPERTY LINE
- EXISTING CONTOUR
- EXISTING FENCE
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING CATCH BASIN
- EXISTING DRAINAGE MANHOLE
- EXISTING SPOT GRADE

STANDARD NOTES FOR COMMERCIAL PROJECTS (ONSITE SEWAGE DISPOSAL & CENTRAL WATER)

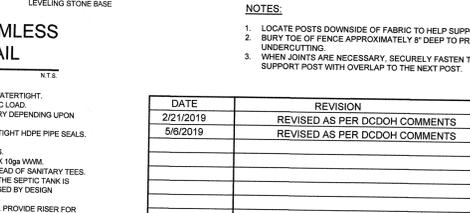
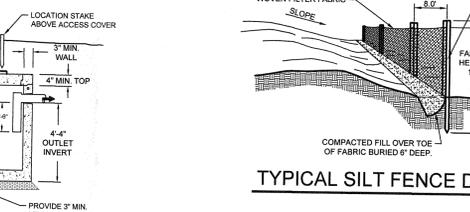
- THE DESIGN, CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN EFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:
 - NEW YORK STATE DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEMS, NYSDOH
 - APPENDIX 7-A, WASTE TREATMENT - INDIVIDUAL HOUSEHOLD SYSTEMS, NEW YORK STATE SANITARY CODE
 - RECOMMENDED STANDARDS FOR SEWAGE TREATMENT WORKS, (TEN STATES)
 - RECOMMENDED STANDARDS FOR WASTEWATER TREATMENT WORKS (TEN STATES)
 - NEW YORK STATE DEPARTMENT OF HEALTH AND DUTCHESS COUNTY ENVIRONMENTAL HEALTH SERVICES DIVISION POLICIES, PROCEDURES AND STANDARDS
 - DUTCHESS COUNTY AND NEW YORK STATE SANITARY CODES
 - DUTCHESS COUNTY ENVIRONMENTAL HEALTH SERVICES DIVISION CERTIFICATE OF APPROVAL LETTER
- THIS PLAN IS A PRELIMINARY DESIGN AND APPROVED TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES FOR ARRANGEMENT OF SEWAGE DISPOSAL AND TREATMENT AND WATER SUPPLY FACILITIES.
- UPON COMPLETION OF THE FACILITY, THE FINISHED WORKS SHALL BE INSPECTED, TESTED, AND CERTIFIED COMPLETE TO THE DC EHD BY THE NEW YORK STATE REGISTERED PROFESSIONAL SUPERVISING ENGINEER AT THE TIME OF THE APPROVAL.
- APPROVAL OF ANY PLANS OR AMENDMENTS THERETO SHALL BE VALID FOR A PERIOD OF 5 YEARS FROM THE DATE OF APPROVAL. FOLLOWING THE EXPIRATION OF SAID APPROVAL, THE PLANS SHALL BE RE-SUBMITTED TO THE COMMISSIONER OF HEALTH FOR CONSIDERATION FOR RE-APPROVAL. RE-SUBMISSION OR REVISED SUBMISSION OF PLANS AND/OR ASSOCIATED DOCUMENTS SHALL BE SUBJECT TO COMPLIANCE WITH THE TECHNICAL STANDARDS, GUIDELINES, POLICIES AND PROCEDURES IN EFFECT AT THE TIME OF THE RE-SUBMISSION.
- ALL ONSITE WASTEWATER TREATMENT SYSTEMS EXISTING OR APPROVED WITHIN 300 FEET OF THE PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM ARE SHOWN ON THIS PLAN ALONG WITH ANY OTHER ENVIRONMENTAL HAZARDS IN THE AREA THAT MAY AFFECT THE DESIGN AND FUNCTIONALITY OF THE ONSITE WASTEWATER TREATMENT SYSTEM.
- IT SHALL BE DEMONSTRATED BY THE CONTRACTOR TO THE DC EHD FIELD INSPECTOR AND/OR DESIGN PROFESSIONAL THAT THE TANK IS SEALED, WATER-TIGHT AND ACCEPTABLE FOR USE. AT A MINIMUM, THE FILING OF THE TANK WITH WATER TO REQUIREMENTS, INCLUDING POSSIBLE ELECTRICAL AND SAFETY STANDARDS.
- ALL PROPOSED SERVICE LINES ON THIS PLAN ARE ACCESSIBLE FOR INSTALLATION AND PLACEMENT.
- NO CELLAR, FOOTING, FLOOR, GARAGE, COOLER OR ROOF DRAINS SHALL BE DISCHARGED INTO THE ONSITE WASTEWATER TREATMENT SYSTEM.
- ALL BUILDINGS SHALL BE CONSTRUCTED AT AN ELEVATION HIGH ENOUGH TO ENSURE GRAVITY FLOW TO THE ONSITE WASTEWATER TREATMENT SYSTEM. PAGE #88
- THERE SHALL BE NO VEHICULAR TRAFFIC OVER THE ONSITE WASTEWATER TREATMENT SYSTEM PRIOR TO CONSTRUCTION. THE AREA OF THE SYSTEM SHALL BE STRIKED OUT AND FENCED OFF.
- ONSITE WASTEWATER TREATMENT SYSTEMS SHALL NOT BE INSTALLED IN WET OR FROZEN SOIL.
- THE DC EHD SHALL BE NOTIFIED PRIOR TO THE BACKFILLING OF ANY COMPLETED ONSITE WASTEWATER TREATMENT SYSTEM SO THAT A FINAL INSPECTION MAY BE PERFORMED.
- THE DC EHD SHALL BE NOTIFIED SIXTY DAYS PRIOR TO ANY CHANGE IN USE. USE CHANGES MAY REQUIRE RE-APPROVAL BY THE DC EHD.
- ALL REQUIRED EROSION & SEDIMENT CONTROL AND STORMWATER POLLUTION PREVENTION WATER QUALITY & QUANTITY CONTROL STRUCTURES, PERMANENT AND TEMPORARY, ARE SHOWN ON THE PLANS.
- NO BUILDINGS ARE TO BE BEUILT AND THE NEW WATER SYSTEM SHALL NOT BE PLACED INTO SERVICE, UNTIL A COMPLETED WORKS APPROVAL IS ISSUED UNDER SECTION 61-122(2) OF PART 5 OF THE NEW YORK STATE SANITARY CODE (10 WORKS).
- THE UNDERSIGNED OWNERS OF THE PROPERTY HEREON STATE THAT THEY ARE FAMILIAR WITH THIS MAP, ITS CONTENTS AND ITS LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON.

DEEP TEST RESULTS (9/14/2017 & 5/3/19):

HOLE #	TOTAL DEPTH	ROCK DEPTH	WATER DEPTH	MOTTLING DEPTH	SOIL DESCRIPTION
1	10'	N/A	N/A	N/A	0'-6" TOPSOIL
					6'-28" SANDY GRAVEL
					28'-10" SILTY LOAM
					0'-3" TOPSOIL
					3'-21" GRAVELLY LOAM
					21'-9" GRAVELLY SILT
2	9'	N/A	N/A	N/A	0'-10" PROCESS RUN
					10'-9" SANDY LOAM W/ RUBBLE
3	10'	N/A	N/A	N/A	0'-10" PROCESS RUN
					10'-4" SANDY LOAM W/ RUBBLE
					0'-10" PROCESS RUN
					6'-10" MEDIUM GRAINED SAND
4	10'	N/A	N/A	N/A	0'-6" TOPSOIL
					6'-32" GRAVELLY LOAM
					32'-7" SILTY LOAM
A	7'	N/A	7'	N/A	0'-6" TOPSOIL
					6'-32" GRAVELLY LOAM
					32'-7" SILTY LOAM
B	8'	N/A	8'	N/A	0'-9" PROCESS RUN
					9'-8" GRAVELLY LOAM W/ RUBBLE

PERC TEST RESULTS (10/19/2017):

Test Hole No.	Test Hole Depth	Soil Type	Soaked	TEST RUNS					
				1	2	3	4	5	
1	24'	GRAVELLY LOAM	YES	Finish	12:14	12:44	1:15	1:49	
				Start	11:46	12:14	12:45	1:16	
				Time	28 min	30 min	30 min	30 min	
2	24'	SANDY LOAM W/ RUBBLE	YES	Finish	3:19	3:34	3:51	4:09	4:27
				Start	3:08	3:19	3:35	3:52	4:10
				Time	14 min	15 min	16 min	17 min	17 min
3	24'	SANDY LOAM W/ RUBBLE	YES	Finish	4:15	4:42	5:09		
				Start	3:53	4:15	4:42		
				Time	22 min	27 min	27 min		



NOTES:

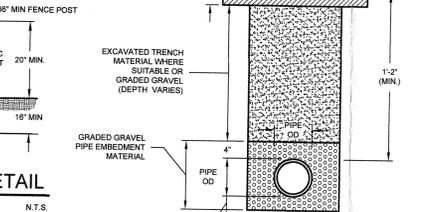
- CONCRETE SEPTIC TANK TO BE NEW AND WATER-TIGHT.
- TOP TO SUPPORT ASHTO H10 NON-TRAFFIC LOAD.
- DIMENSIONS AND CONFIGURATION MAY VARY DEPENDING UPON MANUFACTURER.
- ALL PIPE PENETRATIONS TO USE 4" WATER-TIGHT HOPE PIPE SEALS.
- 6" RUBY RUBBER SEALANT AT ALL JOINTS.
- CONCRETE STRENGTH - 4000 PSI AT 28 DAYS.
- STEEL REINFORCEMENT #4 REBAR, 8" X 8" X 10ga W/M.
- INLET/OUTLET Baffles MAY BE USED, NOT EXCEED 10" OF SANITARY TEES.
- CONTRACTOR SHALL DEMONSTRATE THAT THE SEPTIC TANK IS WATER TIGHT AND TEST SHALL BE WITNESSED BY DESIGN ENGINEER OR A DOJ REPRESENTATIVE.
- MAXIMUM DEPTH OVER SEPTIC TANK IS 12". PROVIDE RISER FOR DEPTHS GREATER THAN 12".

PRIMARY SDS - BASIS OF DESIGN:

DESCRIPTION:	FLOW (GPD)
5 WORKERS @ 12 GPD EA	60
44 PATRONS @ 4 GPD EA	176
TOTAL POTENTIAL FLOW:	236

100% EXPANSION SDS - BASIS OF DESIGN:

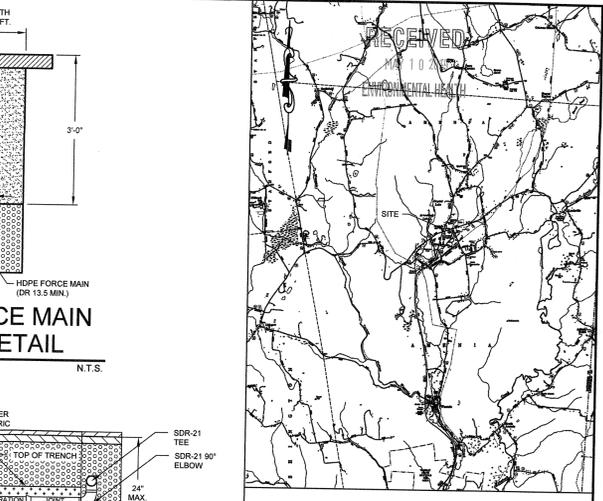
DESCRIPTION:	FLOW (GPD)
5 WORKERS @ 12 GPD EA	60
44 PATRONS @ 4 GPD EA	176
TOTAL POTENTIAL FLOW:	236



REVISION

DATE	REVISION
2/21/2019	REVISED AS PER DCDOH COMMENTS
6/6/2019	REVISED AS PER DCDOH COMMENTS

ENGINEERING, DESIGN, & PLANS PREPARED BY:
RENNIA ENGINEERING DESIGN, PLLC
 CIVIL • ENVIRONMENTAL • STRUCTURAL
 6 Dover Village Plaza, Suite 5, P.O. Box 400, Dover Plains, NY 12522
 Tel: (845) 877-0595 Fax: (845) 877-0598
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DUTCHESS COUNTY DEPARTMENT OF HEALTH
 APPROVED
 DATE: 5/11/2019
 PROJECT: AMENIA LIBRARY BOWLS
 FILE # OF APPROVAL: 1 PAGE
 SEE ENGINEER REPORT
 SUPERVISING PUBLIC HEALTH ENGINEER

DUTCHESS COUNTY DOH - APPROVAL BLOCK

OWNER'S CONSENT NOTE:
 THE UNDERSIGNED OWNER OF THE PROPERTY HEREON STATES THAT I AM FAMILIAR WITH THIS MAP, ITS CONTENTS AND LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON AND TO THE FILING OF THIS PLAN IN THE OFFICE OF THE CLERK OF THE COUNTY OF DUTCHESS, IF REQUIRED.

SIGNED THIS _____ DAY OF _____ 2019
 _____ OWNER'S SIGNATURE
 _____ SITE DATA

ZONING DISTRICT: "M" HAMLET MIXED USE
LOT SIZE: 0.226 ACRES
TAX GRID NO.: 132000-7167-13-174496
PROPERTY ADDRESS: 3309 ROUTE 343
 AMENIA, NY 12501
PROPERTY OWNER: AMENIA FREE LIBRARY ASSN
 P.O. BOX 51
 AMENIA, NY 12501
APPLICANT: AMENIA FREE LIBRARY ASSN
 P.O. BOX 51
 AMENIA, NY 12501

PUBLIC WATER SUPPLY SYSTEM:
 AMENIA WATER SUPPLY
 4888 ROUTE 22
 AMENIA, NY 12501

AMENIA LIBRARY
 DUTCHESS COUNTY, NY

SEWAGE DISPOSAL SYSTEM PLAN

DATE: 10/31/2018 SCALE: 1" = 10' DESIGNED BY: RCT DRAWN BY: RCT CHECKED BY: RAR JOB NO: 17-016 SHEET NO: 1 of 1