

LOCAL BOARD OF HEALTH REGULATION VARIANCE REQUIRED
 THE REGULATORY BOARD OF HEALTH REGULATION VARIANCE REQUIRED FOR THE PROPOSED SERVICE AREAS IS NOT REQUIRED FOR AN UPGRADE TO THE EXISTING SERVICE AREAS.

NOTE: UNDERGROUND UTILITY LOCATIONS, INCLUDING WATER, GAS, AND CABLE ARE SHOWN BY DASHED LINES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

LOT AREA: 14,457 S.F.
 LOT CREATED: OCTOBER 14, 1970
 SHEET 1 OF 2



SEE SHEET 2 FOR SYSTEM DETAILS

CONTACT

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PROPOSED UPGRADE PLAN OF A SUBSURFACE TREATMENT SYSTEM WITH INNOVATIVE ALTERNATIVE TECHNOLOGY

DESIGNED BY: SARA FITZGERALD

DATE: 23 AUGUST 88

SCALE: 1" = 20'

PROJECT NO: 88-07378

BLANKET & ASSOCIATES, INC.
 20 TRAVEL CREST - WASHINGTON, VA 22091
 80269

REVISIONS:

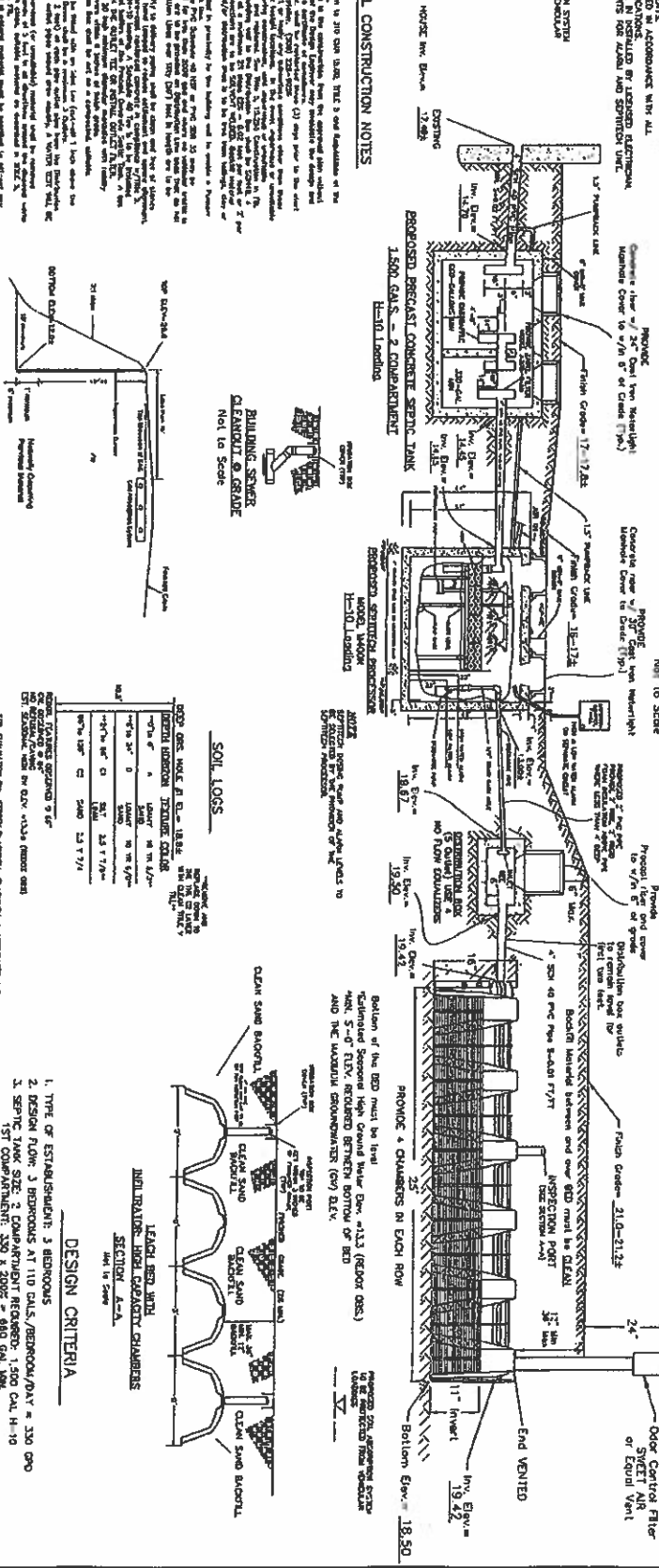
NO. 1	DATE	DESCRIPTION
1	10/14/70	ISSUED FOR PERMITS
2	10/14/70	ISSUED FOR PERMITS
3	10/14/70	ISSUED FOR PERMITS
4	10/14/70	ISSUED FOR PERMITS
5	10/14/70	ISSUED FOR PERMITS
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7	10/14/70	ISSUED FOR PERMITS
8	10/14/70	ISSUED FOR PERMITS
9	10/14/70	ISSUED FOR PERMITS
10	10/14/70	ISSUED FOR PERMITS

NOTES:
 1. CONSTRUCTION TO EXISTING WASTE PIPE DIRT LOCATIONS.
 2. EXISTING WASTE PIPING TO BE REMOVED AND REPLACED WITH ALL
 3. SYSTEM TO BE INSTALLED IN ASSEMBLY WITH ALL
 4. MANUFACTURER'S SPECIFICATIONS.
 5. PROVIDE SUFFICIENT CLEARANCE FOR MAINT. AND SERVICE UNIT.
 6. PROVIDE FOR ABSORPTION TRENCH
 7. TO BE PROVIDED FROM WASTEWATER
 8. LOCATIONS

GENERAL CONSTRUCTION NOTES

1. All construction is subject to 210 GPM DAILY TREATMENT CAPACITY OF THE
2. Any material to be used in the construction shall be approved and tested
3. All work shall be done in accordance with the approved plan and subject
4. to the supervision of a registered professional engineer (PE) duly licensed in the
5. State of Maryland.
6. All work shall be done in accordance with the approved plan and subject
7. to the supervision of a registered professional engineer (PE) duly licensed in the
8. State of Maryland.
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10. to the supervision of a registered professional engineer (PE) duly licensed in the
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31. to the supervision of a registered professional engineer (PE) duly licensed in the
32. State of Maryland.

SEPTIC SYSTEM PROFILE



SEPTIC TANKS AND ABSORPTION TRENCHES

1. SEPTIC TANKS AND ABSORPTION TRENCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
 2. SEPTIC TANKS SHALL BE CONSTRUCTED OF CONCRETE OR BRICK WITH A MINIMUM WALL THICKNESS OF 8" AND A MINIMUM HEIGHT OF 4' ABOVE FINISHED FLOOR.
 3. ABSORPTION TRENCHES SHALL BE CONSTRUCTED OF CONCRETE OR BRICK WITH A MINIMUM WALL THICKNESS OF 8" AND A MINIMUM HEIGHT OF 4' ABOVE FINISHED FLOOR.
 4. THE SEPTIC TANKS AND ABSORPTION TRENCHES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLAN AND SUBJECT TO THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER (PE) DULY LICENSED IN THE STATE OF MARYLAND.

SOIL LOGS

DEPTH	DESCRIPTION	PERCENT MOISTURE	PERCENT SOLIDS	PERCENT ORGANICS
0 - 12"	Topsoil	15%	85%	5%
12" - 24"	Subsoil	10%	90%	2%
24" - 36"	Clay	8%	92%	1%
36" - 48"	Sand	5%	95%	0%
48" - 60"	Gravel	3%	97%	0%

DESIGN CRITERIA

1. TYPE OF ESTABLISHMENT: 3 BEDROOMS
2. DESIGN FLOW: 3 BEDROOMS AT 110 GALS./BEDROOM/DAY = 330 GPD
3. SEPTIC TANK SIZE: 2 COMPARTMENT REQUIRED: 1500 GAL. H-10
4. ABSORPTION TRENCH: 25' X 10" OR 25' X 12" WITH 15" PERFORATED LINE
5. DESIGN PERCOLATION RATE: 45 MINUTES/INCH - SOIL CLASS I
6. FROM TITLE 5 SECTION 13.24.E: LINE-EFFLUENT LOADING RATES: 0.74 GPD/SF
7. SOIL ABSORPTION SYSTEM (SAS): 330 GPD / 0.74 GPD/SF = 446 SF BEDD
8. WITH 4 ROWS X 4 CHAMBERS X 25.6 SF/CHAMBER = 412.6 SF.
9. LEACHING CAPACITY (BY TITLE 5): 330 GPD = 473.5 SF X 0.74 GPD/SF
10. MAXIMUM ALLOWABLE LOADING (BY TITLE 5): 330 GALLONS/DAY ACTUAL HYDRAULIC LOADING (DESIGN FLOW) = 330 GALLONS/DAY

PROPOSED UPGRADE PLAN OF A SUBSURFACE SEWERAGE AND WASTEWATER SYSTEM WITH INNOVATIVE/ALTERNATIVE TECHNOLOGY

Prepared by: **SABRA PETERSON**

DATE: **08/15/2024**

PROJECT NO: **24-0000000000**

CLIENT: **BLACKWELL & ASSOCIATES, INC.**

ADDRESS: **20 TOWNSEND DRIVE, SUITE 200, ANNAPOLIS, MD 21403**

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