

BOBBY BARR
County Commissioner
KEVIN L. THOMAS
Health Officer
Public Health Coordinator
ALOYSIUS ONWUKA, M.D.
Medical Director

CAPE MAY COUNTY
DEPARTMENT OF HEALTH
4 Moore Road, Cape May Court House, N.J. 08210-1601
(609) 465-1209 after hours (609) 465-1190
Fax: (609) 465-6564



SEPTIC REPAIR COMPLIANCE

Owner: Asap Plumbing Chris Sutley
3 Canale Drive, Suite 1
Egg Harbor Twp, Nj 08234

Site Address: 176 South Ravenwood Drive

Township: Dennis Township
Block/Lot 256.01/20
Account #: 19979 -E

Review Date: 03/11/2025
Inspection Number: 389618

Dwelling: Residential

Bedrooms: 4

Estimated Use: 501-650 gal/day

Please be advised that this department has reviewed the final inspection information submitted by your engineer in regards to the septic repair/alteration. It has been determined that the installation is in substantial compliance with the submitted repair/alteration data.

If you have any further questions regarding this matter, please feel free to call me at (609) 465-1209.


INSPECTOR'S NAME: Heather Johnson
TITLE: Chief Reg. Env. Health Specialist
INSPECTOR'S PERM REG. NO.: B-2071
PHONE: (609) 465-1213

cc: Construction Official/Dennis Township
Engineer/Schaeffer, Nassar, Scheidegg

WILL MOREY
County Commissioner
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SEPTIC REPAIR APPROVAL

Owner: Asap Plumbing Chris Sutley
3 Canale Drive, Suite 1
Egg Harbor Twp, NJ 08234

Site Address: 176 South Ravenwood Drive

Review Date: 11/15/2024
Expiration Date: 11/16/2026
Inspection Number: 380619

Township: Dennis Township
Block/Lot 256.01/20
Account #: 19979 -E

Dwelling: Residential

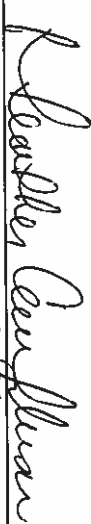
Bedrooms: 4

Estimated Use: 501-650 gal/day

Our department has completed a review of the engineering data and plans for the Repair/Alteration of the Subsurface Sewage Disposal System at the above mentioned location. This letter will serve as your approval to construct the Repair/Alteration under the Authority granted to the Local Board of Health, N.J.S.A. 58:11-23 et seq. Chapter 9A Standards for Individual Subsurface Sewage Disposal Systems.

Your engineer is to be notified when there is removal of impervious material and for a final inspection.

If you have any further questions regarding this matter, please feel free to call me at (609) 465-1209.


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TITLE: Chief Reg. Env. Health Specialist
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GENERAL NOTES:

1. NO NEW POTABLE WELLS ARE TO BE LOCATED WITHIN 100' OF THE PROPOSED DISPOSAL FIELD. THE PROPOSED SYSTEM IS LOCATED FURTHER FROM THE EXISTING WELLS IMPROVING THE CURRENT CONDITIONS.
2. SLOPES OF DISTRIBUTION LINES ARE TO BE LEVEL.
3. SYSTEM IS TO BE CONSTRUCTED IN ACCORDANCE WITH NJDEP "STANDARDS FOR THE CONSTRUCTION OF INDIVIDUAL SUBSURFACE DISPOSAL SYSTEMS", LATEST EDITION.
4. A PERMANENT MARKER SHALL BE PLACED AT THE FINISH GRADE TO INDICATE ALL ACCESS OPENINGS.
5. SEPTIC TANK IS TO BE OF PRE-CAST REINFORCED CONCRETE WATER TIGHT CONSTRUCTED IN ACCORDANCE WITH CURRENT NJDEP REQUIREMENTS.
6. ACCESS OPENINGS AND INLET AND OUTLET CONNECTIONS FOR ALL SEPTIC TANKS TO BE IN ACCORDANCE WITH ABOVE.
7. SEPTIC TANK WALLS SHALL SUPPORT A MINIMUM OF HYDROSTATIC EQUAL PRESSURE AS FOLLOWS:
ABOVE GROUNDWATER 40#/FT.
BELOW GROUNDWATER 100#/FT.
TOP AND BOTTOM SHALL SUPPORT A SUPERIMPOSED LIVE LOAD AS FOLLOWS:
TRAFFIC LOAD AASHTO HS-20 WHEEL LOAD, OTHER 100 PSF UNIFORM LOADS. MANUFACTURER SHALL CERTIFY STRUCTURAL DESIGN.
8. SURVEY INFORMATION TAKEN FROM SURVEY OF PROPERTY PREPARED BY ROBERT C. PRETTYMAN, LLC, SIGNED BY ROBERT C. PRETTYMAN, PLS.
9. AREA TO BE BACKFILLED IN ONE FOOT LIFTS WITH SUITABLE FILL COMPACTED TO A MINIMUM OF 90% OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY LABORATORY ANALYSIS. THE FILL WILL MEET THE FOLLOWING REQUIREMENTS:
 - I. COARSE FRAGMENT CONTENT (GREATER THAN A NO. 8 SIEVE) LESS THAN 15 PERCENT BY VOLUME OR LESS THAN 20 PERCENT BY WEIGHT;
 - II. TEXTURAL ANALYSIS (COMPOSITION, BY WEIGHT, OF SIZE FRACTION PASSING THE PARTICULAR SIEVE AS STATED BELOW IN THIS SUBPARAGRAPH) BETWEEN 80 AND 100 PERCENT MUST PASS A NO. 8 SIEVE (2.36 MM); BETWEEN 50 AND 85 PERCENT MUST PASS A NO. 16 SIEVE (1.18 MM); BETWEEN 25 AND 60 PERCENT MUST PASS A NO. 30 SIEVE (0.6 MM); BETWEEN 10 AND 30 PERCENT MUST PASS A NO. 50 SIEVE (0.3 MM); AND BETWEEN TWO AND 10 PERCENT MUST PASS A NO. 100 SIEVE (0.15 MM); AND
10. DWELLING FIRST FLOOR ELEVATION AS SHOWN IS AN APPROXIMATION ONLY SINCE THE TYPE OF HOUSE CONSTRUCTION VARIES, THE CONSTRUCTION VARIES. ALL ITEMS AS RELATED TO STRUCTURE CONSTRUCTION INCLUDING FOOTING, FOUNDATION, PILES, ETC. TO BE DETERMINED BY THE ARCHITECT.
THE OWNER/ARCHITECT SHALL PERFORM ALL SOIL TESTING AS NECESSARY TO DETERMINE IF A BASEMENT IS FEASIBLE ON THIS SITE. THE SOIL INFORMATION CONTAINED ON THIS PLAN IS FOR THE DESIGN OF THE SEPTIC SYSTEM ONLY.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ARCHITECTURAL PLANS FOR THE PROPOSED HOUSE TO ENSURE THAT THE TOP OF THE BLOCK AND FIRST FLOOR WILL ALLOW THE SEPTIC SYSTEM TO BE CONSTRUCTED AS SHOWN.
11. THE USE OF A GARBAGE GRINDER WAS NOT CONSIDERED IN THE DESIGN OF THIS SYSTEM.

DISTRIBUTION BOX SPECIFICATIONS:

1. DISTRIBUTION BOXES SHALL BE WATER-TIGHT AND CONSTRUCTED OF SOUND AND DURABLE MATERIALS WHICH WILL RESIST DECAY OR CORROSION BY SULPHURIC ACID, FROST DAMAGE, CRACKING OR BUCKLING DUE TO BACKFILLING OR OTHER ANTICIPATED STRESSES.
2. THE DISTRIBUTION BOX SHALL BE SET PERFECTLY LEVEL AND SHALL BE INSTALLED AS FOLLOWS:
 - I. IN THE CASE OF DISPOSAL BEDS, THE DISTRIBUTION BOX SHALL BE INSTALLED DIRECTLY ON THE FILTER MATERIAL WITHIN THE DISPOSAL BED.
 - II. IN THE CASE OF DISPOSAL TRENCHES, THE DISTRIBUTION BOX SHALL BE SET ON A LAYER OF GRAVEL OR A CONCRETE FOOTING EXTENDING DOWNWARD BELOW THE MAXIMUM EXPECTED DEPTH OF FROST PENETRATION. WHERE GRAVEL IS USED, THE GRAVEL SHALL EXTEND Laterally A MINIMUM OF SIX INCHES BEYOND THE SIDES OF THE DISTRIBUTION BOX.
3. A SEPARATE OUTLET SHALL BE PROVIDED FOR EACH DISTRIBUTION LATERAL. THE INVERTS OF ALL OUTLETS SHALL BE SECURELY SET AT THE SAME LEVEL WHICH SHALL BE A MINIMUM OF TWO INCHES ABOVE THE BOTTOM OF THE BOX. WHEN INSTALLATION IS COMPLETE THE DISTRIBUTION BOX SHALL BE FILLED WITH WATER AT WHICH TIME THE INSTALLATION SHALL BE CHECKED TO MAKE SURE THAT IT IS LEVEL. ADJUSTMENTS SHALL BE MADE AS NECESSARY SO THAT ALL OUTLETS ARE PERMANENTLY AND SECURELY FIXED AT EXACTLY THE SAME ELEVATION PRIOR TO BACKFILLING.
4. THE INVERT OF THE INLET SHALL BE AT LEAST ONE INCH ABOVE THE INVERT OF THE OUTLETS WHERE PASSING IS

NOTES:

- 1) THE CONTRACTOR SHALL VERIFY THAT THE PROPOSED DISPOSAL FIELD IS NOT LOCATED WITHIN 100' OF ANY EXISTING POTABLE WELLS OR THAT THE PROPOSED WELL IS NOT LOCATED WITHIN 100' OF ANY EXISTING DISPOSAL FIELD. EXISTING CONDITIONS ARE ACCURATE AS OF THE DATE OF THE REFERENCED SURVEY. SUBSEQUENT INSTALLATION OF WELLS AND/OR SEPTIC SYSTEMS ON ADJOINING LOTS MAY EFFECT THE LOCATION AS SHOWN OF THIS DESIGN. THE OWNER/CONTRACTOR SHALL VERIFY MINIMUM DISTANCE SEPARATION PER NJAC 7:9A PRIOR TO INSTALLING ANY INSTALLATION.
- 2) CONTRACTOR SHALL SET FINISH FLOOR ELEVATION IN ACCORDANCE WITH THE ARCHITECTURAL PLANS. FINISH FLOOR ELEVATION AS SHOWN ON THIS PLAN IS MINIMUM NECESSARY TO ASSURE PROPER ON-SITE GRADING ONLY.
- 3) CONTRACTOR SHALL VERIFY THAT ALL INTERNAL EFFLUENT/WASTE LINES ARE CONNECTED TO THE MAIN SEWAGE DISCHARGE LINE FROM THE DWELLING.
- 4) CONTRACTOR SHALL REMOVE ALL TREES WITHIN 10 FEET OF THE DISPOSAL FIELD.
- 5) IF ANY SOILS OTHER THAN THOSE INDICATED ON THE SOILS LOG ARE ENCOUNTERED DURING EXCAVATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY, AND ALL CONSTRUCTION SHALL CEASE UNTIL DIRECTED BY THE ENGINEER.

VOLUME OF SEWAGE:

FIRST BEDROOM: = 200 GPD
ADDITIONAL BEDROOMS: 3 x 150 GDP = 450 GPD

TOTAL DAILY SEWAGE FLOW = 650 GPD

DISPOSAL BED TYPE: "SOIL REPLACEMENT-BOTTOM LINED" DISPOSAL FIELD (SRB)

SOIL PERMEABILITY AND SUITABILITY:

SOIL SUITABILITY CLASS: I
SOIL PERMEABILITY/CLASSIFICATION: "K4" 6-20 IN/HR

DISPOSAL BED SIZING CALCULATIONS:

BASED ON SOIL PERMEABILITY, MAXIMUM ALLOWABLE A/Q RATIO = 1.61 FT/GPD
DISPOSAL BED AREA = 650 GPD X 1.61 FT²/GPD = 1,046.5 S.F. (MINIMUM)
REQUIRED WIDTH - (6 PIPES x 3') + 3' = 21.0 FT. WIDE
REQUIRED LENGTH - 48' + (2 x 1') = 50.00 FT. LONG
TOTAL BED AREA PROVIDED = 21.0' x 50.0' = 1,050 S.F.
6 ROWS OF 48 L.F. 4" PERF. PVC PIPE = 288 L.F. TOTAL

CALCULATIONS

SOIL LOG TEST PIT No. 1

DATE: 1-18-24 ELEV.=21.00

Block: 256.01 Lot: 20 Municipality: Dennis Township

1. Log No.: SP-1 Elevation Method: Soil Test Pit

2. Soil Log:

Depth in Inches Moist color name and symbol, estimated textural class, estimated volume % coarse fragments, silt/clay From Top to Bottom moist or dry consistency, molding abundance, size and continuity

0-6	Very Dark Brown 10YR2/2 Topsoil and grass
6-36	Dark Yellowish Brown 10YR4/4 Medium Sandy Clay, SAB, friable.
36-70	Dark Yellowish Brown 10YR4/6 Medium Sand, single grain loose.
70-94	Yellowish Brown 10YR5/4 Medium, Sand, single grained loose. Morticles @ 74"
94-108	Yellowish Brown 10YR4/4
108-120	White 10YR8/1 Fine Sand, single grain, loose.
	Light Gray 10YR7/1 Fine Sand, single grain, loose, Damp.

3. Groundwater Observations:

Seepage -- Indicate Depth
Pit - Water Level after

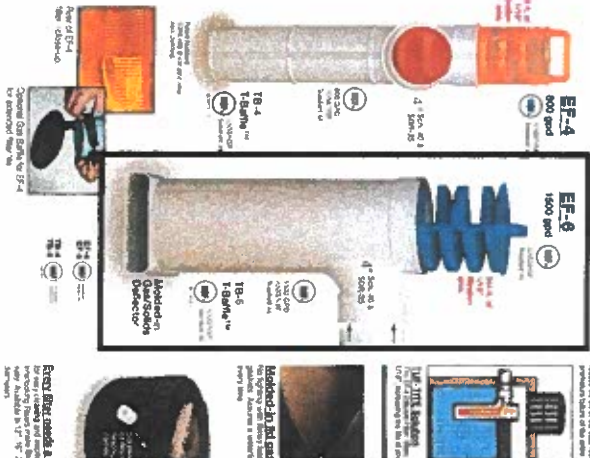
4. Soil Limiting Zones (check appropriate categories):

- Excessively Coarse Horizon - Depth Top to Bottom
Excessively Coarse Substratum - Depth to Top
Hydraulically Restrictive Horizon - Depth Top to Bottom
Hydraulically Restrictive Substratum - Depth to Top
Perched Zone of Saturation - Depth Top to Bottom
☒ Regional Zone of Saturation - Depth to Top 74"

5. Soil Suitability Classification: I

Hydraulically Restrictive Horizon: N/A
Estimated seasonally high water table at: 74" (ELEV = 14.83)
Actual water table encountered at: N/A
Soil boring was witnessed by the CAPE MAY County Health Department
Soil boring was performed by Berni Nassar

TUFITTE Effluent Filters.



Block: 256-01 Lot: 20 Municipality:

1. Log No.: SP-1 Elevation Meth

2. Soil Log:

Length in inches

From Top to Bottom

Munsell color name and symbol, estimated textural class, soil moist or dry consistency, molding shrunken, size and content

0-6	Very Dark Brown 10YR2/2 Topsoil and grass
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4. Soil Limiting Zones (check appropriate categories)

Excessively Coarse Substratum - Depth Top to Bottom

Excessively Restrictive Horizon - Depth Top to Bottom

Hydraulically Restrictive Substratum - Depth Top to Bottom

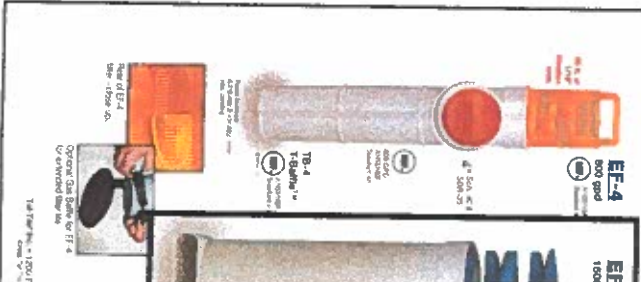
Hydraulically Restrictive Substratum - Depth Top to Bottom

Perched Zone of Saturation - Depth Top to Bottom

☒ Regional Zone of Saturation - Depth to Top 74

5. Soil Suitability Classification: 1

Hydraulically Restrictive Horizon: N/A
Estimated seasonally high water table at: 74" (ELEV.)
Actual water table encountered at: N/A
Soil boring was witnessed by the CAPE MAY County
Soil boring was performed by Ramon Nassar



- LOCATED WITHIN 100' OF ANY EXISTING POTABLE WELLS OR THAT THE PROPOSED WELL IS NOT ACCURATE AS OF THE DATE OF THE REFERENCED SURVEY. SUBSEQUENT INSTALLATION OF WELLS AND/OR SEPTIC SYSTEMS ON ADJOINING LOTS MAY EFFECT THE LOCATION AS SHOWN OF THIS DESIGN. THE OWNER/CONTRACTOR SHALL VERIFY MINIMUM DISTANCE SEPARATION PER NJAC 7-9A PRIOR TO INSTALLING ANY INSTALLATION.
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11. THE USE OF A GARBAGE GRINDER WAS NOT CONSIDERED IN THE DESIGN OF THIS SYSTEM.

DISTRIBUTION BOX SPECIFICATIONS:

1. DISTRIBUTION BOXES SHALL BE WATER-TIGHT AND CONSTRUCTED OF SOUND AND DURABLE MATERIALS WHICH WILL RESIST DECAY OR CORROSION BY SULPHURIC ACID, FROST DAMAGE, CRACKING OR BUCKLING DUE TO BACKFILLING OR OTHER ANTICIPATED STRESSES.
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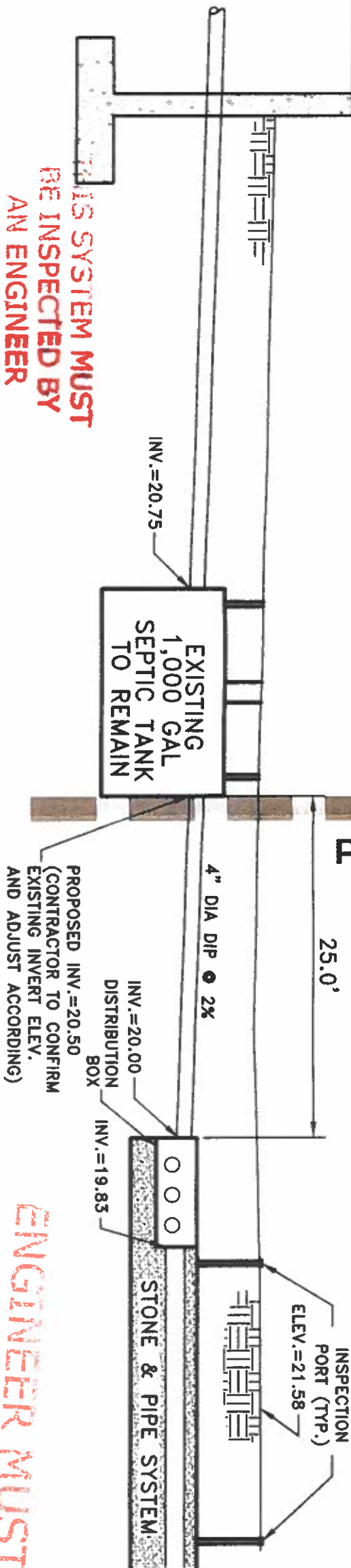
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4. THE INVERT OF THE INLET SHALL BE AT LEAST ONE INCH ABOVE THE INVERT OF THE OUTLETS, WHERE DOSING IS EMPLOYED, OR WHERE THE CONNECTING PIPE FROM THE PRE-TREATMENT UNIT HAS A STEEP SLOPE, MEASURES SHALL BE TAKEN TO PREVENT DIRECT FLOW OF EFFLUENT ACROSS THE DISTRIBUTION BOX RESULTING IN UNEQUAL DISTRIBUTION OF EFFLUENT AMONG THE DISTRIBUTION BOX OUTLETS. THIS MAY BE ACCOMPLISHED BY INSTALLATION OF A BAFLE OR ELBOW WITHIN THE DISTRIBUTION BOX OR BY USE OF TWO DISTRIBUTION BOXES CONNECTED IN SERIES. IN THE LATTER CASE, ALL OUTLETS OF THE FIRST DISTRIBUTION BOX SHALL BE SEALED OFF EXCEPT FOR THE OUTLET WHICH DISCHARGES TO THE SECOND DISTRIBUTION BOX.

5. DISTRIBUTION BOXES SHALL BE PROVIDED WITH A MEANS OF ACCESS WHICH MAY BE A REMOVABLE LID IN THE CASE OF SMALLER BOXES. ACCESS TO LARGER BOXES MAY BE PROVIDED BY MEANS OF MANHOLES AND INSPECTION PORTS WITH REMOVABLE WATER-TIGHT COVERS. IN ANY CASE, THE FOLLOWING REQUIREMENTS SHALL BE MET:

EXISTING DWELLING
BENCHMARK ASSUMED
DATUM F.F.
ELEV.=24.00

EXISTING
PROPOSED

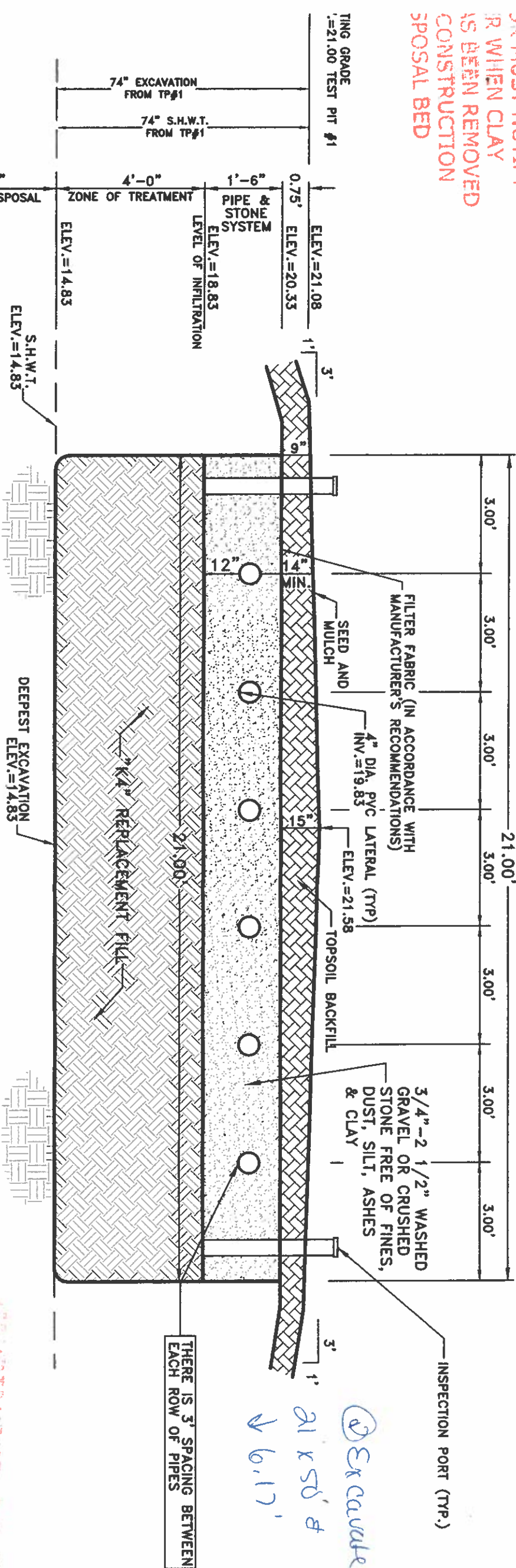


THIS SYSTEM MUST
BE INSPECTED BY
AN ENGINEER
BEFORE IT IS
COVERED FROM
VIEW

ENGINEER MUST
VERIFY CLAY
REMOVAL

SEPTIC SYSTEM PROFILE

NTS



FIELD CROSS SECTION

ENGINEER MUST
RE-PERK AND
CERTIFY FILL

RAMI N. NASSAR
PROFESSIONAL ENGINEER

NEW JERSEY LIC. NO. 34902

10-30-24
DATE

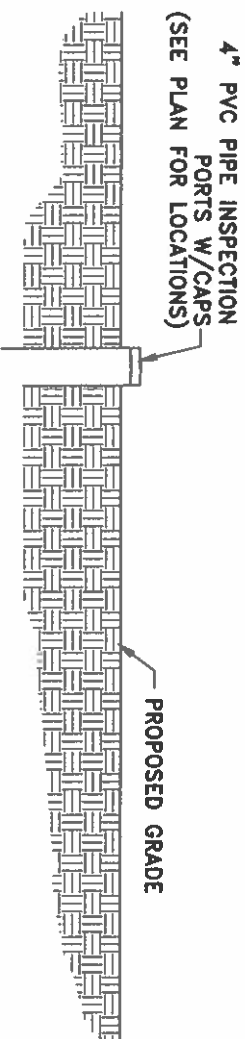
THIS PLAN IS VALID AND VOID UNLESS
THE SIGNATURE OF THE ENGINEER IS
PRINTED AND THE SEAL IS ATTACHED HERETO



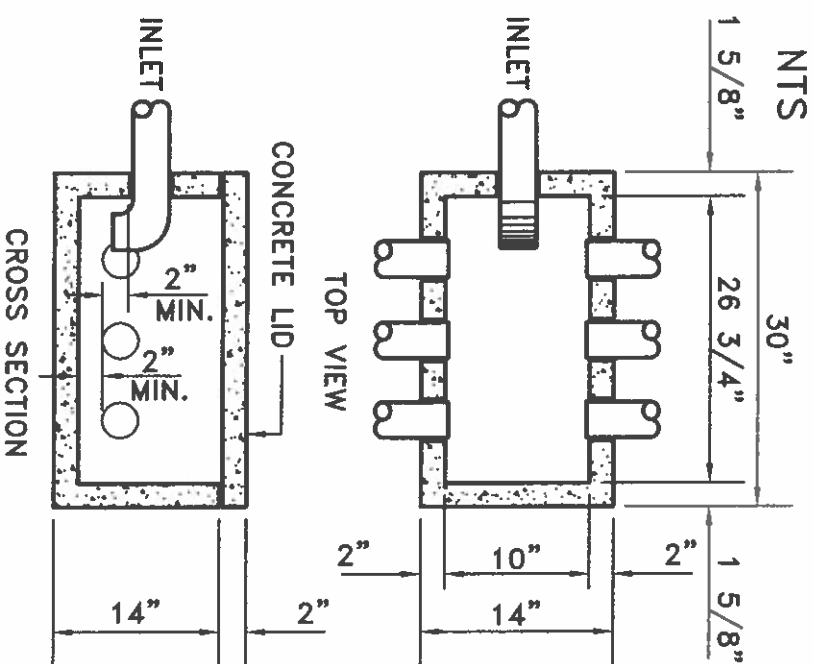
Schaeffer Nassar Scheid
CONSULTING ENGINEERS, LLC
Surveyors • Environmentalists • Planners

1425 Cantillon Boulevard • Mays Landing • New Jersey
Telephone: (609) 625 - 7400 • Fax: (609) 909 - 0253

Certificate of Authorization #24GA28103800

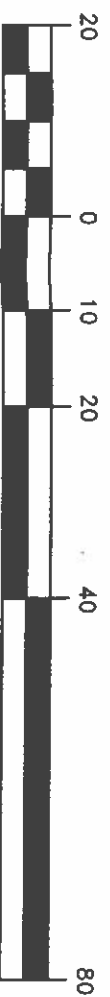


INSPECTION PORT DETAIL

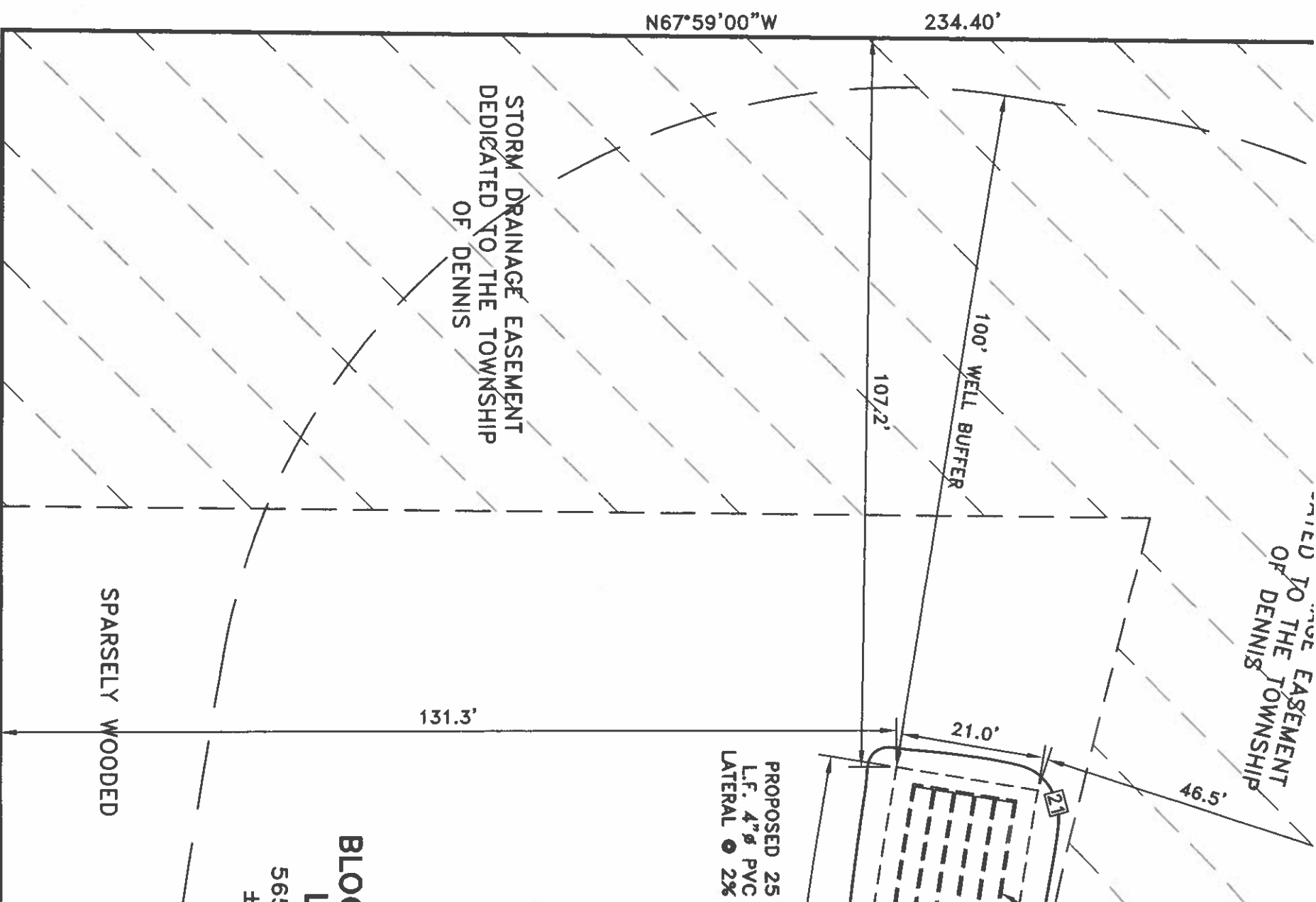


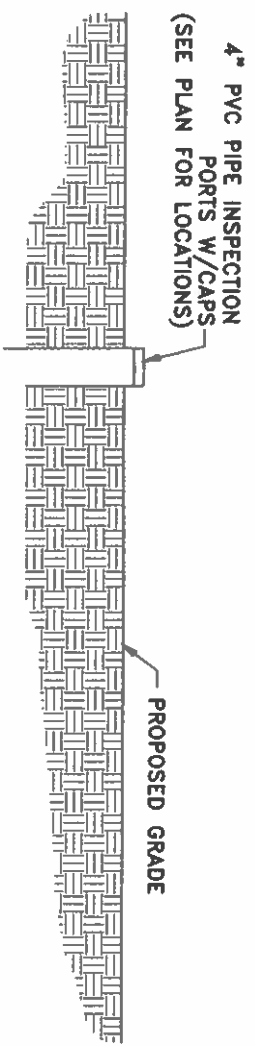
PRECAST CONCRETE
DISTRIBUTION BOX
6 WAY
N.T.S.

GRAPHIC SCALE

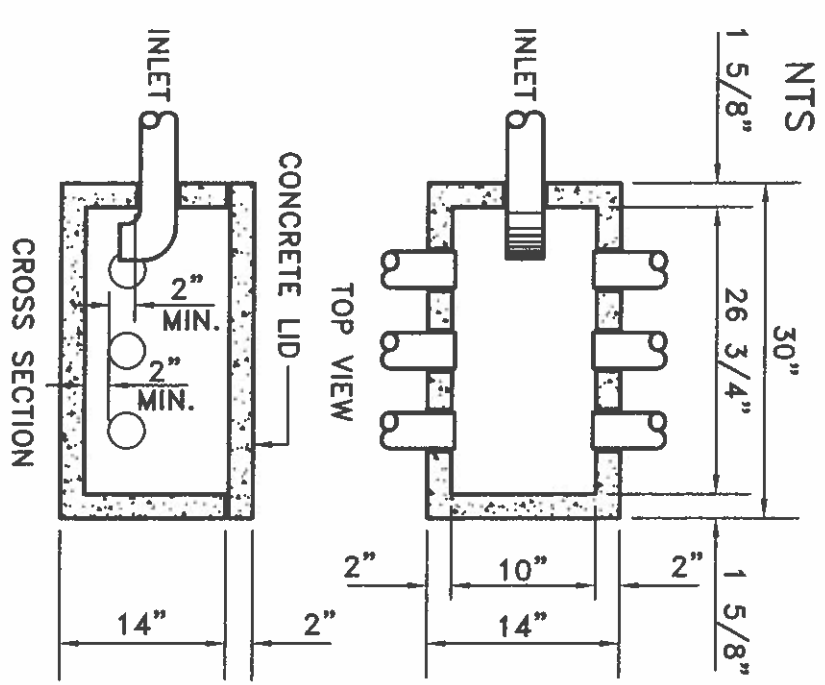


1 INCH = 20 FT





INSPECTION PORT DETAIL



PRECAST CONCRETE DISTRIBUTION BOX 6 WAY N.T.S.

GRAPHIC SCALE



1 INCH = 20 FT

