

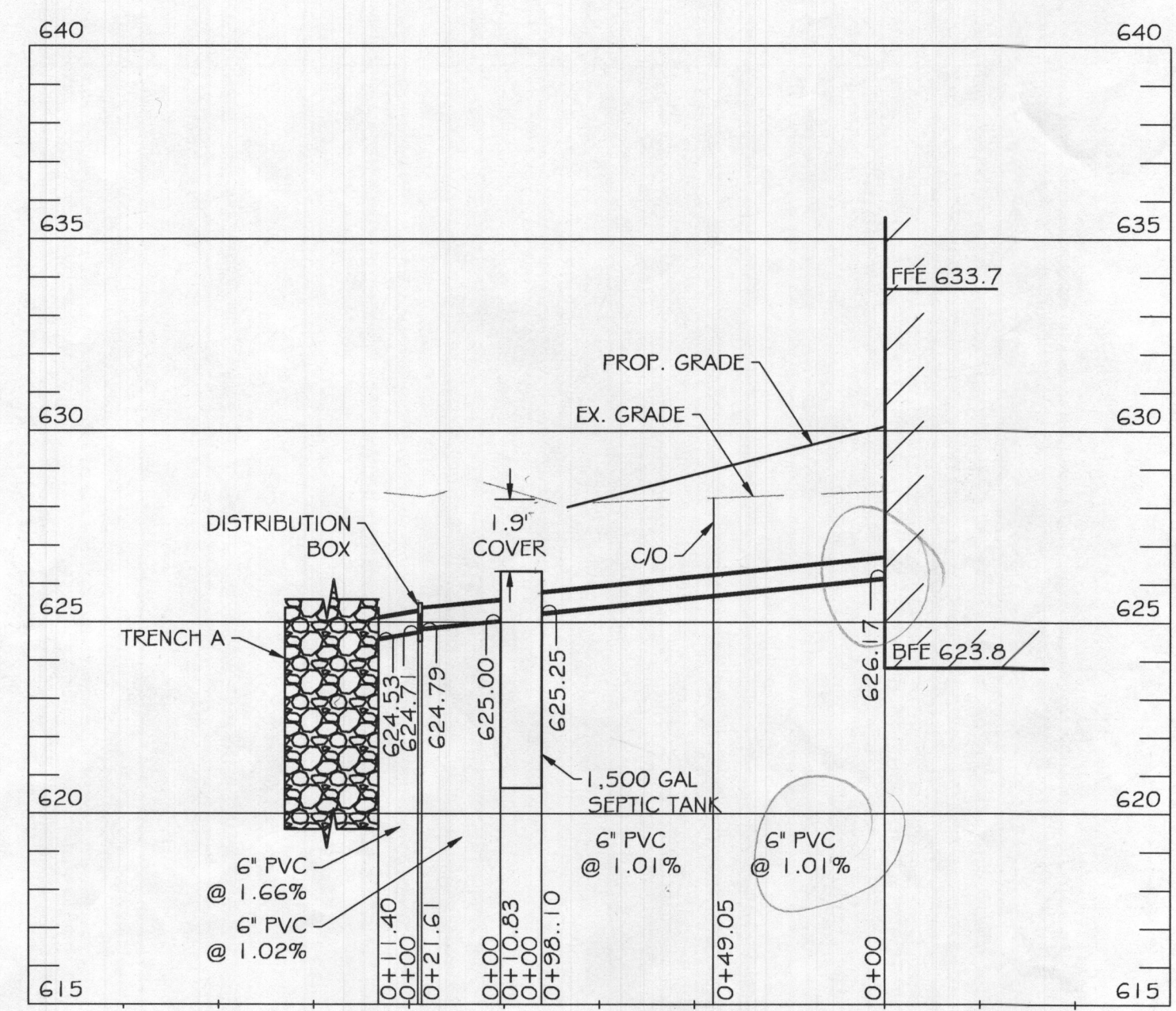
LEGEND

- 750--- EXISTING MINOR CONTOUR (2' INTERVAL)
- 760--- EXISTING MAJOR CONTOUR (10' INTERVAL)
- 307.90'--- ADJACENT PROPERTY LINE
- N22°37'16"W--- EXISTING PROPERTY BOUNDARY
- 761--- EXISTING ROAD / EDGE OF PAVING
- 760--- EXISTING ROAD CENTERLINE
- 761--- PROPOSED MINOR CONTOUR (2' INTERVAL)
- 760--- PROPOSED MAJOR CONTOUR (10' INTERVAL)
- [Symbol] EXISTING BUILDING
- [Symbol] PROPOSED BUILDING
- [Symbol] PROPOSED SPOT ELEVATION
- [Symbol] LIMIT OF DISTURBANCE
- [Symbol] PROPOSED SILT FENCE
- [Symbol] SOIL DELINEATION LINE
- [Symbol] EXISTING PERCOLATION TEST HOLE

Revise.
3/8/13/22

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE



EX. SEPTIC SYSTEM PROFILE
SCALE: H. 1" = 40'
V. 1" = 4'

TRENCH LENGTH AND SPACING CALCULATIONS
TRENCH DESIGN (4 BDRM X 150 GPD/BDRM = 600 GPD)

INITIAL SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 2" WIDE TRENCH W/ 60" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4' - 9"
750 SF / 2' WIDTH = 375 LF x 0.308 = 116 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES

1ST REPLACEMENT SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 2" WIDE TRENCH W/ 60" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4' - 9"
750 SF / 2' WIDTH = 375 LF x 0.308 = 116 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES

2ND REPLACEMENT SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 2" WIDE TRENCH W/ 60" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4' - 9"
750 SF / 2' WIDTH = 375 LF x 0.308 = 116 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES

2 - 58' LONG TRENCHES FOR INITIAL SYSTEM
2 - 58' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
2 - 58' LONG TRENCHES FOR 2ND REPLACEMENT SYSTEM

PERC RESULTS (10/10/1998)

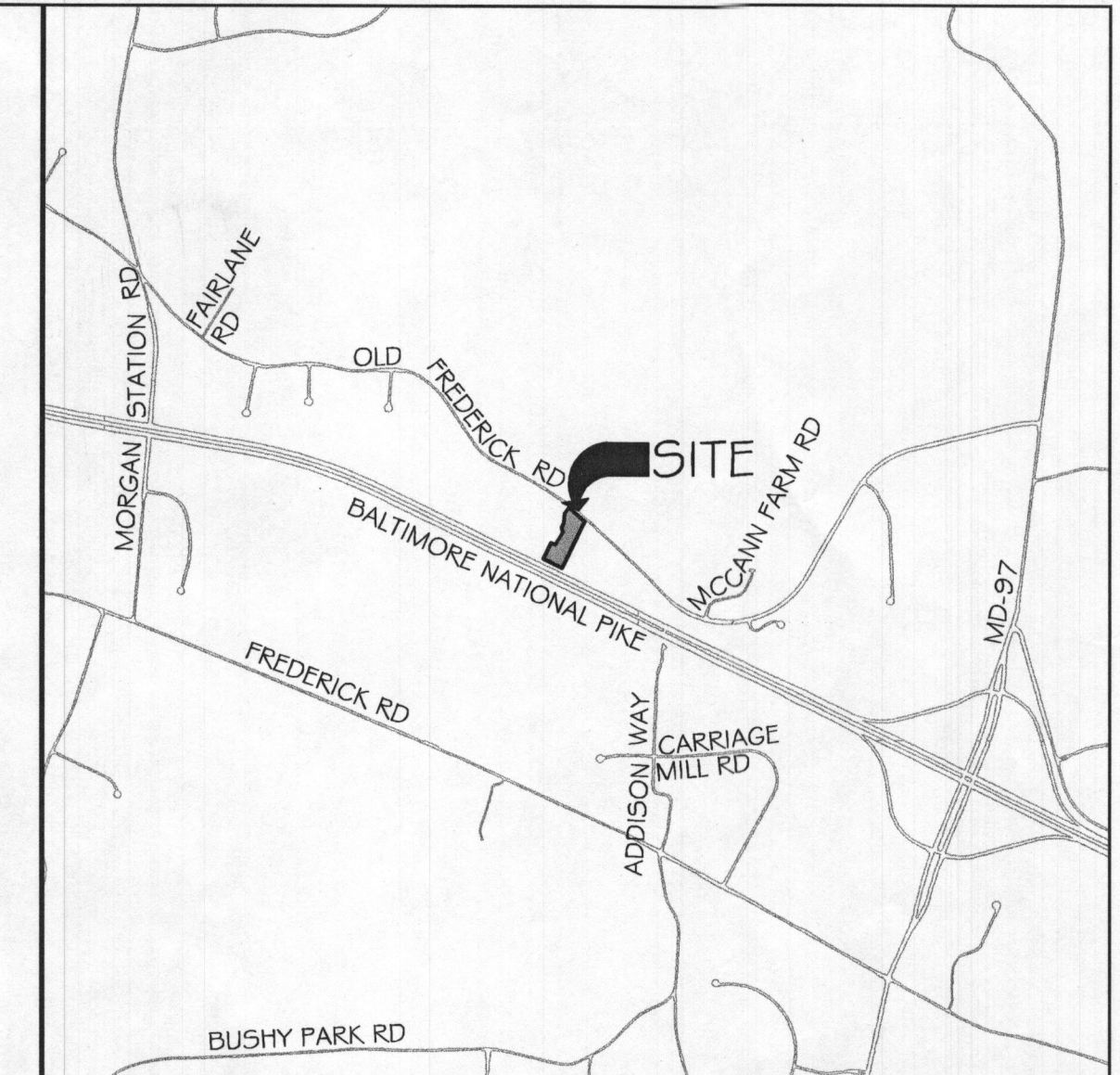
LINE	TIME FOR 1" DROP (MINUTES)
1	4
2	8
3	20
4	10
AVG.	10.5

PROPERTY BOUNDARY LINE TABLE

LINE	BEARING	DISTANCE
L1	N 26°02'56" E	200.48'
L2	S 63°57'04" E	55.73'
L3	N 30°12'56" E	161.98'
L4	N 17°18'48" W	54.62'
L5	N 26°02'56" E	62.49'
L6	N 06°19'11" E	106.56'
L7	N 36°24'52" E	73.94'
L8	S 56°22'55" E	14.02'

RELATIVE DEPTHS

	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A&B	4.0	4.0	9.0
1ST REPLACEMENT TRENCH A&B	4.0	4.0	9.0
2ND REPLACEMENT TRENCH A&B	4.0	4.0	9.0



VICINITY MAP
SCALE: 1" = 2000'

- GENERAL NOTES:
- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
 - THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
 - ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
 - ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN. EXISTING SYSTEM LOCATION HAS BEEN OBTAINED FROM THE HEALTH DEPARTMENT AND THE PROPERTY OWNER.
 - THIS AREA DESIGNATES A PRIVATE SEWAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENT OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
 - TOPOGRAPHY SHOWN IS AT TWO-FOOT CONTOUR INTERVALS (ONE-FOOT INTERVALS ARE REQUIRED FOR MOUND SYSTEMS AND SYSTEMS WITH PIPE DEPTH LESS THAN TWO FEET) AND HAS BEEN FIELD VERIFIED OR FIELD RUN.
 - ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
 - THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
 - THE 1ST REPLACEMENT SYSTEM WILL REQUIRE A PRESSURIZED DISTRIBUTION DESIGN AND A PUMP TANK AND PUMP WILL BE NEEDED AT TIME OF REPAIR.
 - A PROFESSIONAL SURVEYOR OR ENGINEER MUST MARK THE PROPERTY LINE WHEN THE TRENCHES ARE BEING INSTALLED IN AREAS WHERE THE PROPERTY LINE SETBACK HAS BEEN REDUCED.

APPROXIMATE ELEVATIONS

	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	628.5	624.5	619.5
INITIAL SYSTEM TRENCH B	628.0	624.0	619.0
1ST REPLACEMENT TRENCH A	627.9	623.9	618.9
1ST REPLACEMENT TRENCH B	627.0	623.0	618.0
2ND REPLACEMENT TRENCH A	626.4	623.4	618.4
2ND REPLACEMENT TRENCH B	625.7	622.7	617.7

OWNER:
ASKARI & SYMA RIZVI
12614 FAWN RUN CT.
ELLCOTT CITY, MD 21042
(240) 475-3884

DEVELOPER:
KEYSTONE CUSTOM HOMES
GREG REINSMITH
227 GRANITE RUN DR., SUITE 100,
LANCASTER, PA 17601
(717) 464-9060 EXT. 1108

DESIGNER:
KCI TECHNOLOGIES INC.
MICHAEL MARKAKIS
936 RIDGEBROOK RD.
SPARKS, MD 21152
(732) 535-3605

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREIN IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF. LICENSE NO. 28935 EXPIRATION DATE: 1/15/2023

KCI TECHNOLOGIES
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936 RIDGEBROOK ROAD
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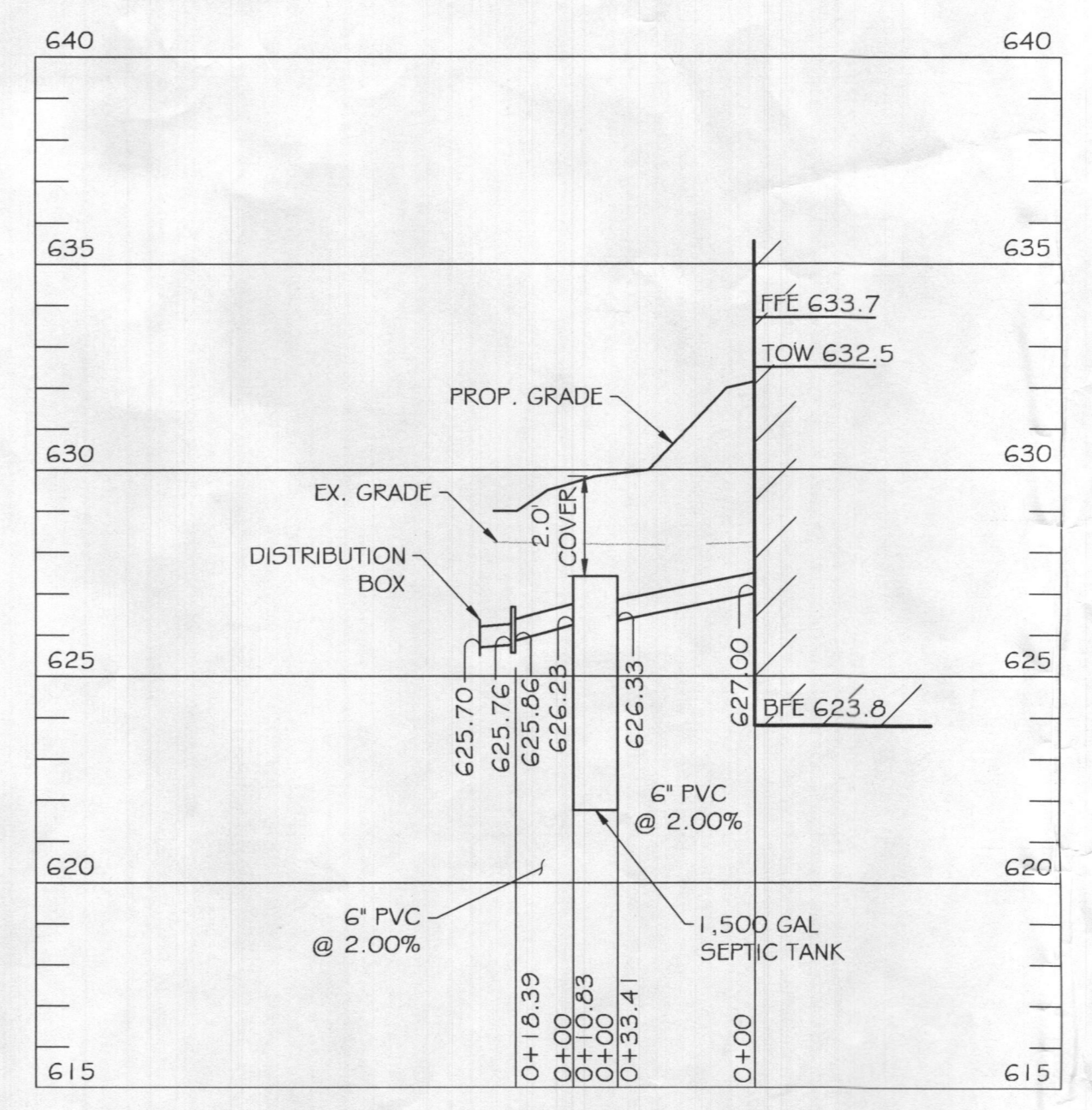
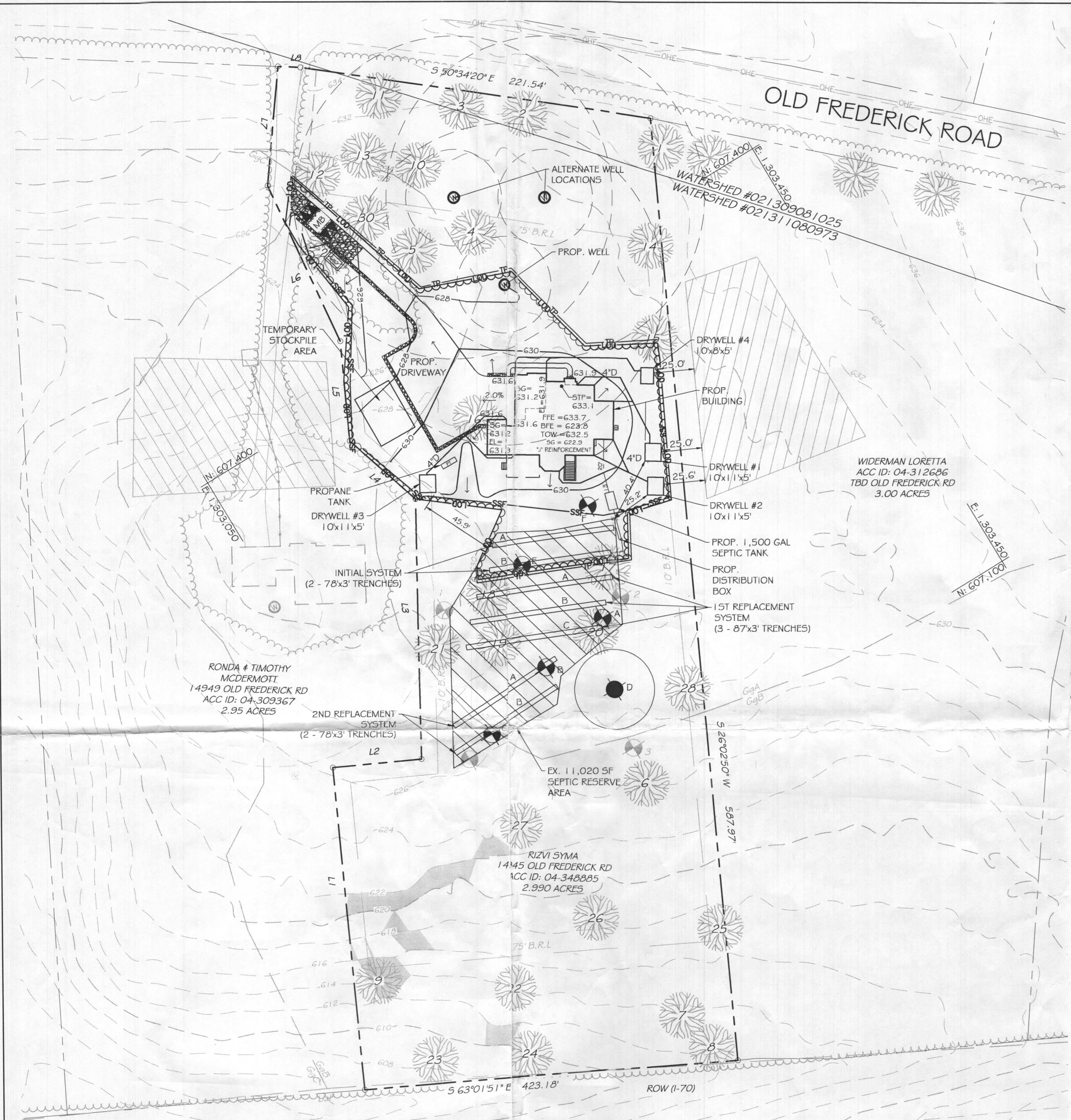
REVISIONS

NO.	DATE	DESCRIPTION	BY

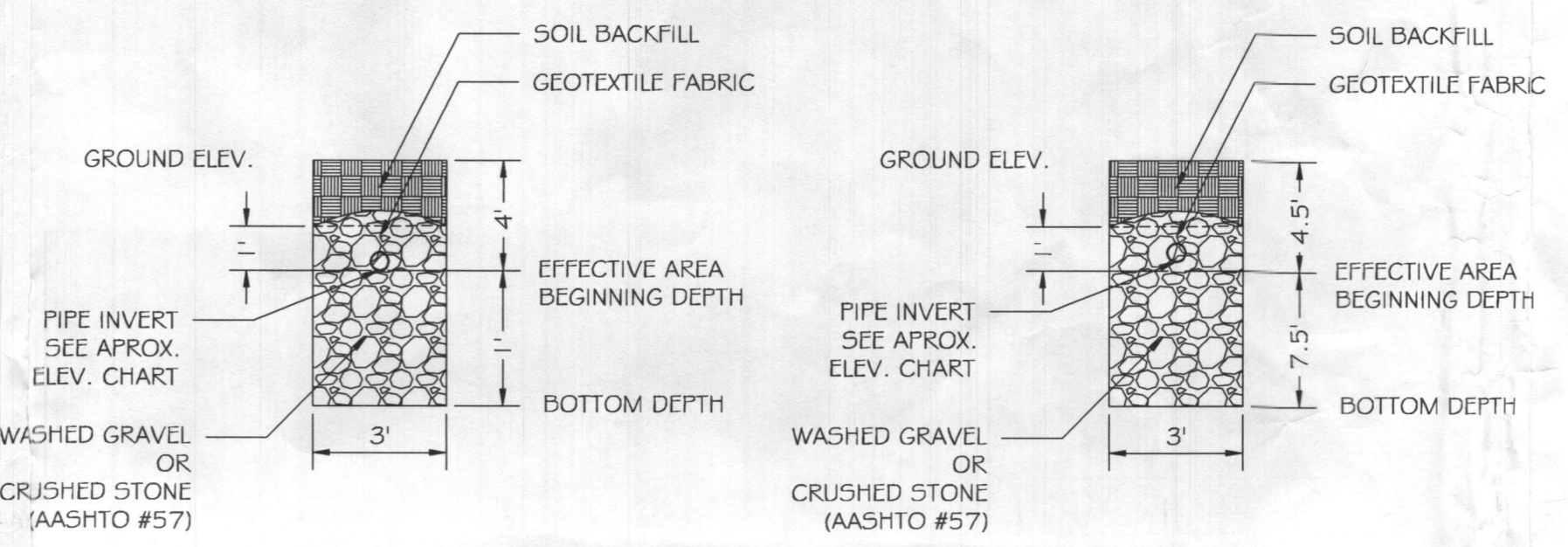
DATE: 12/09/2021
SCALE: 1" = 30'
DESIGNED BY: MAM
DRAWN BY: MAM

LOT 5, RIZVI PROPERTY
ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
14945 OLD FREDERICK ROAD
WOODBINE, MD 21797
TAX#: 348885, SUB: 1001

DRAWING NO.
SHEET 1 OF 1
KCI JOB NUMBER
271803754.112



EX. SEPTIC SYSTEM PROFILE
SCALE: H. 1" = 40'
V. 1" = 4'



1ST REPLACEMENT TRENCH DETAIL
N.T.S.

2ND REPLACEMENT TRENCH DETAIL
N.T.S.

TRENCH LENGTH AND SPACING CALCULATIONS
TRENCH DESIGN (5 BDRM X 150 GPD/BDRM = 750 GPD)

INITIAL SYSTEM
750 GPD / 0.8 GPD/SF (APP. RATE) = 938 SF
USE 3' WIDE TRENCH W/ 3" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 5' - 8'
938 SF / 3' WIDTH = 313 LF x 0.50 = 156 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES

1ST REPLACEMENT SYSTEM
750 GPD / 0.8 GPD/SF (APP. RATE) = 938 SF
USE 3' WIDE TRENCH W/ 12" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4' - 5'
938 SF / 3' WIDTH = 313 LF x 0.83 = 260 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES

2ND REPLACEMENT SYSTEM
750 GPD / 0.8 GPD/SF (APP. RATE) = 938 SF
USE 3' WIDE TRENCH W/ 3" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4.5' - 7.5'
938 SF / 3' WIDTH = 313 LF x 0.50 = 156 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES

2 - 78' LONG TRENCHES FOR INITIAL SYSTEM
3 - 87' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
2 - 78' LONG TRENCHES FOR 2ND REPLACEMENT SYSTEM

1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
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6. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
7. TOPOGRAPHY SHOWN IS AT TWO-FOOT CONTOUR INTERVALS (ONE-FOOT INTERVALS ARE REQUIRED FOR MOUND SYSTEMS AND SYSTEMS WITH PIPE DEPTH LESS THAN TWO FEET) AND HAS BEEN FIELD VERIFIED.
8. ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
9. THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
10. A PROFESSIONAL SURVEYOR OR ENGINEER MUST MARK THE PROPERTY LINE WHEN THE TRENCHES ARE BEING INSTALLED IN AREAS WHERE THE PROPERTY LINE SETBACK HAS BEEN REDUCED.

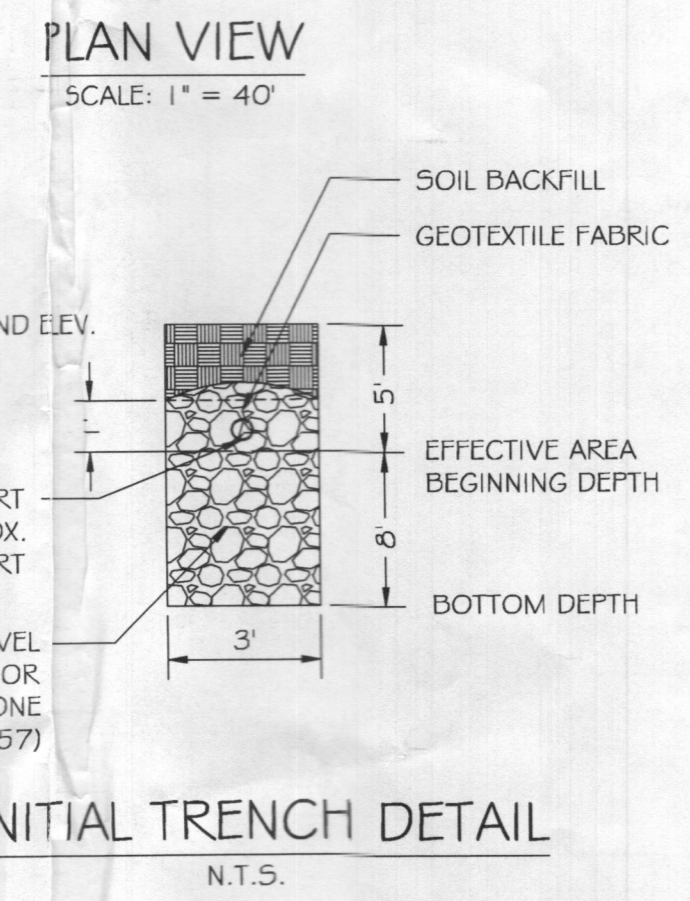
TEST #	TIME FOR 1" DROP (MINUTES)
1	4
2	8
3	20
4	10
AVG.	10.5

TEST #	DEPTH (FT)	TIME FOR 1ST 1" DROP (MINUTES)	TIME FOR 2ND 1" DROP (MINUTES)
A	5	3	5
B	5.5	5	11
C	6	8	11
D	FAILED	FAILED	FAILED
E	6	10	15
F	5	11	16

LINE	BEARING	DISTANCE
L1	N 26°02'56" E	200.48'
L2	S 63°57'04" E	55.73'
L3	N 30°12'56" E	161.98'
L4	N 17°18'48" W	54.62'
L5	N 26°02'56" E	62.49'
L6	N 06°19'11" E	106.56'
L7	N 36°24'52" E	73.94'
L8	S 56°22'55" E	14.02'

	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	629.7	625.7	621.7
INITIAL SYSTEM TRENCH B	629.3	625.7	621.3
1ST REPLACEMENT TRENCH A	629.0	625.0	624.0
1ST REPLACEMENT TRENCH B	628.5	625.0	623.5
1ST REPLACEMENT TRENCH C	628.0	625.0	623.0
2ND REPLACEMENT TRENCH A	627.3	623.3	619.8
2ND REPLACEMENT TRENCH B	626.6	623.3	619.1

	PIPE INVERT BELOW GROUND	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A&B	4.0'	5.0'	8.0'
1ST REPLACEMENT TRENCH A,B&C	4.0'	4.0'	5.0'
2ND REPLACEMENT TRENCH A&B	4.0'	4.5'	7.5'



INITIAL TRENCH DETAIL
N.T.S.

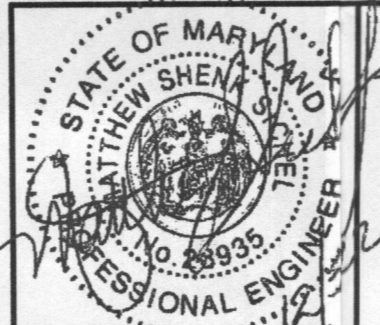
LEGEND

- 759- EXISTING MINOR CONTOUR (2' INTERVAL)
- 760- EXISTING MAJOR CONTOUR (10' INTERVAL)
- - - ADJACENT PROPERTY LINE
- - - 307.90' N22°37'18"W EXISTING PROPERTY BOUNDARY
- - - EXISTING ROAD / EDGE OF PAVING
- - - EXISTING ROAD CENTERLINE
- 761- PROPOSED MINOR CONTOUR (2' INTERVAL)
- 760- PROPOSED MAJOR CONTOUR (10' INTERVAL)
- - - EXISTING BUILDING
- - - PROPOSED BUILDING
- - - PROPOSED SPOT ELEVATION
- - - LIMIT OF DISTURBANCE
- - - PROPOSED SILT FENCE
- 765.0 x SOIL DELINEATION LINE
- BrC GdB EXISTING PERCOLATION TEST HOLE

Approved Septic System Plan
Howard County Health Department

Signature: *[Signature]* Date: 1/5/23

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KCI TECHNOLOGIES
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936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
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REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 12/05/2022
SCALE: 1"=30'
DESIGNED BY: JDL
DRAWN BY: JDL

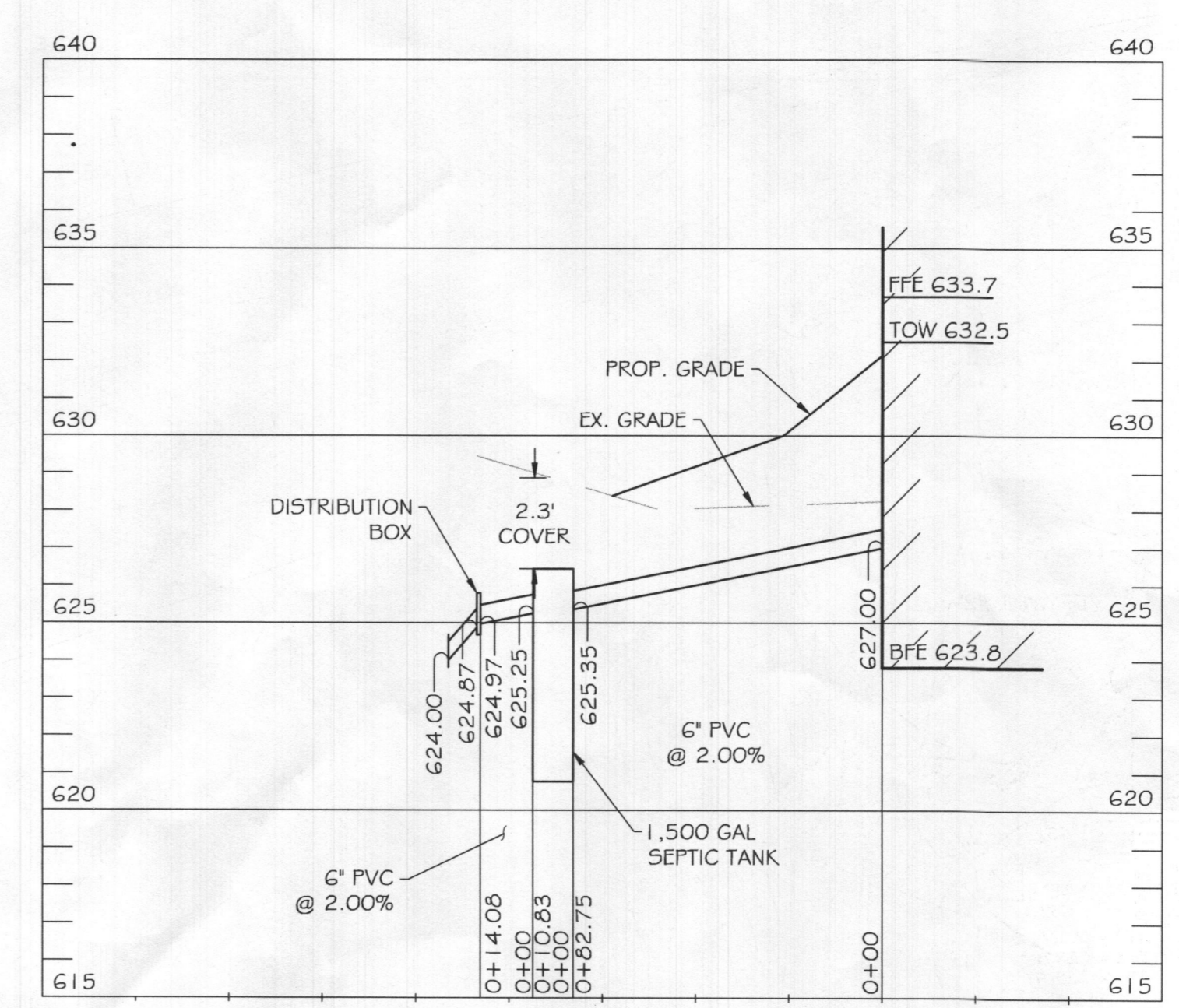
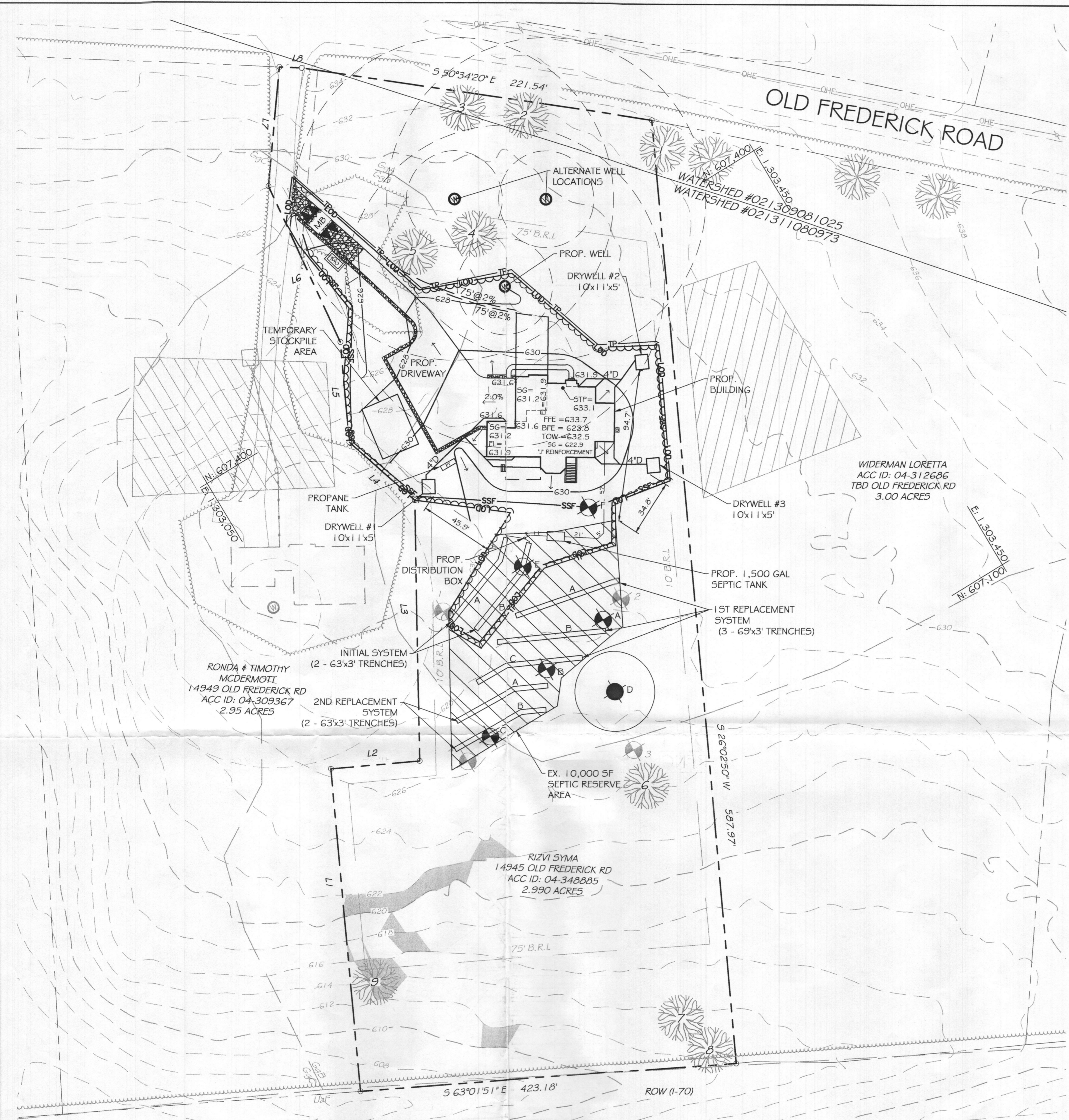
LOT 5, RIZVI PROPERTY
ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
14945 OLD FREDERICK ROAD
WOODBINE, MD 21797
TAX#: 348885, SUB: 1001

OWNER:
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12614 FAWN RUN CT.
ELICOTT CITY, MD 21042
(240) 475-3884

DEVELOPER:
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227 GRANITE RUN DR, SUITE 100,
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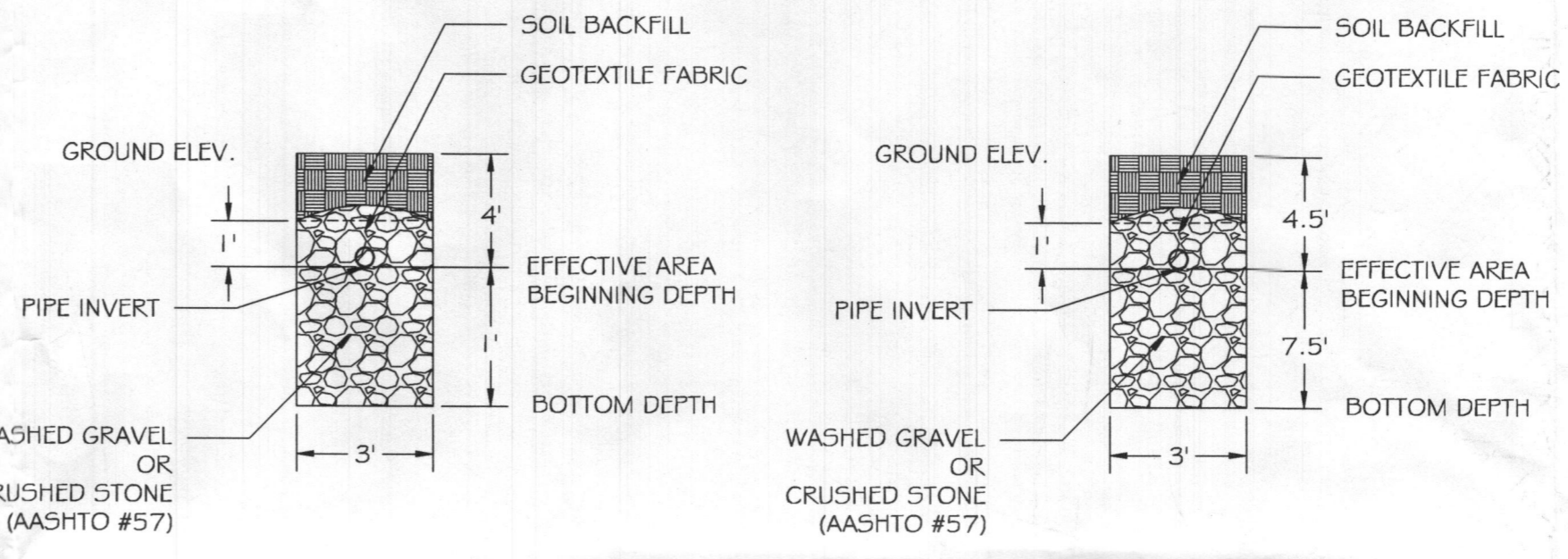
DESIGNER:
KCI TECHNOLOGIES INC.
FRANK WHITE
936 RIDGEBROOK RD,
SPARKS, MD 21152
(410) 316-0803

DRAWING NO. SHEET 1 OF 1
KCI JOB NUMBER 271803754.112



EX. SEPTIC SYSTEM PROFILE

SCALE: H. 1" = 40'
V. 1" = 4'



1ST REPLACEMENT TRENCH DETAIL

2ND REPLACEMENT TRENCH DETAIL

TRENCH LENGTH AND SPACING CALCULATIONS
TRENCH DESIGN (4 BDRM X 150 GPD/BDRM = 600 GPD)

INITIAL SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 3\"/>

1ST REPLACEMENT SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 2\"/>

2ND REPLACEMENT SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 3\"/>

- 2 - 63' LONG TRENCHES FOR INITIAL SYSTEM
- 3 - 69' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
- 2 - 63' LONG TRENCHES FOR 2ND REPLACEMENT SYSTEM

PERC RESULTS (10/01/99B)

TEST #	TIME FOR 1" DROP (MINUTES)
1	4
2	8
3	20
4	10
AVG.	10.5

PERC RESULTS (6/15/2022)

TEST #	DEPTH (FT)	TIME FOR 1ST 1" DROP (MINUTES)	TIME FOR 2ND 1" DROP (MINUTES)
A	5	3	5
B	5.5	5	11
C	6	8	11
D	FAILED	FAILED	FAILED
E	6	10	15
F	5	11	16

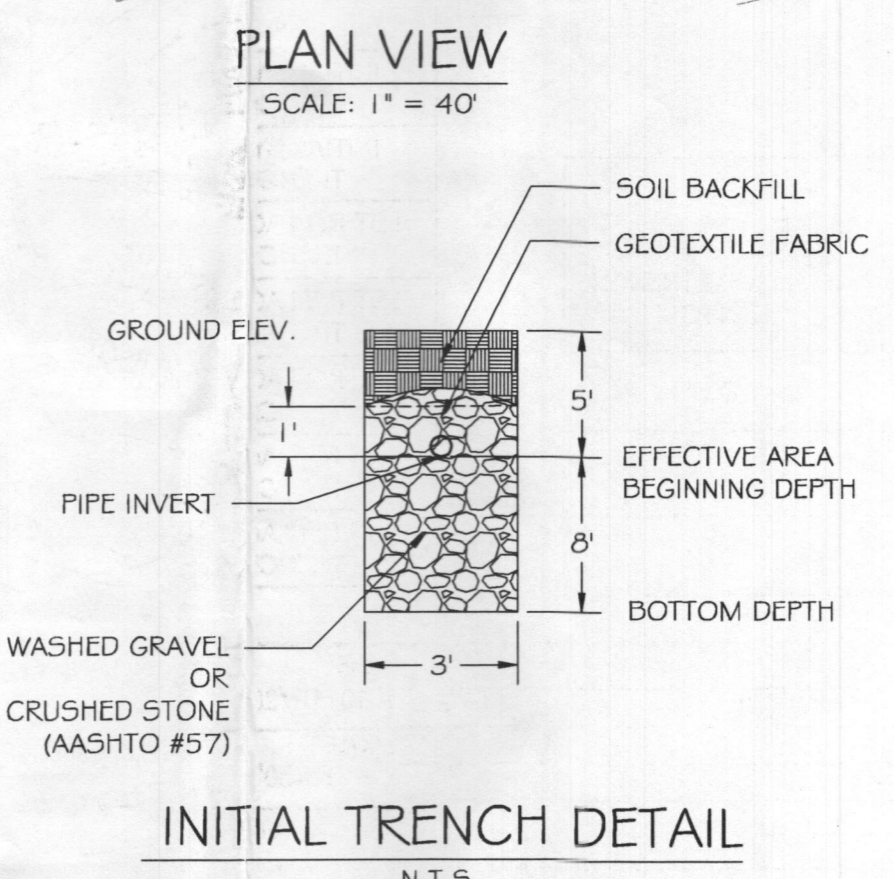
PROPERTY BOUNDARY LINE TABLE

LINE	BEARING	DISTANCE
L1	N 26°02'56" E	200.48'
L2	S 63°57'04" E	55.73'
L3	N 30°12'56" E	161.98'
L4	N 17°18'48" W	54.62'
L5	N 26°02'56" E	62.49'
L6	N 06°19'11" E	106.56'
L7	N 36°24'52" E	73.94'
L8	S 56°22'55" E	14.02'

Revise
gjb 11/29/22

LEGEND

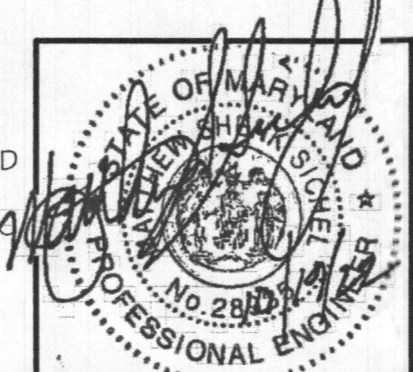
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- 761 --- PROPOSED MINOR CONTOUR (2' INTERVAL)
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- [Symbol] --- EXISTING BUILDING
- [Symbol] --- PROPOSED BUILDING
- 765.0 X --- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED SILT FENCE
- BrC --- SOIL DELINEATION LINE
- GdB --- EXISTING PERCOLATION TEST HOLE



INITIAL TRENCH DETAIL

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE

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REVISIONS			
NO.	DATE	DESCRIPTION	BY

APPROXIMATE ELEVATIONS

	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	629.7	624.0	621.0
INITIAL SYSTEM TRENCH B	629.0	624.0	621.0
1ST REPLACEMENT TRENCH A	629.0	623.8	622.8
1ST REPLACEMENT TRENCH B	628.0	623.8	622.8
1ST REPLACEMENT TRENCH C	627.8	623.8	622.8
2ND REPLACEMENT TRENCH A	627.3	622.1	619.1
2ND REPLACEMENT TRENCH B	626.6	622.1	619.1

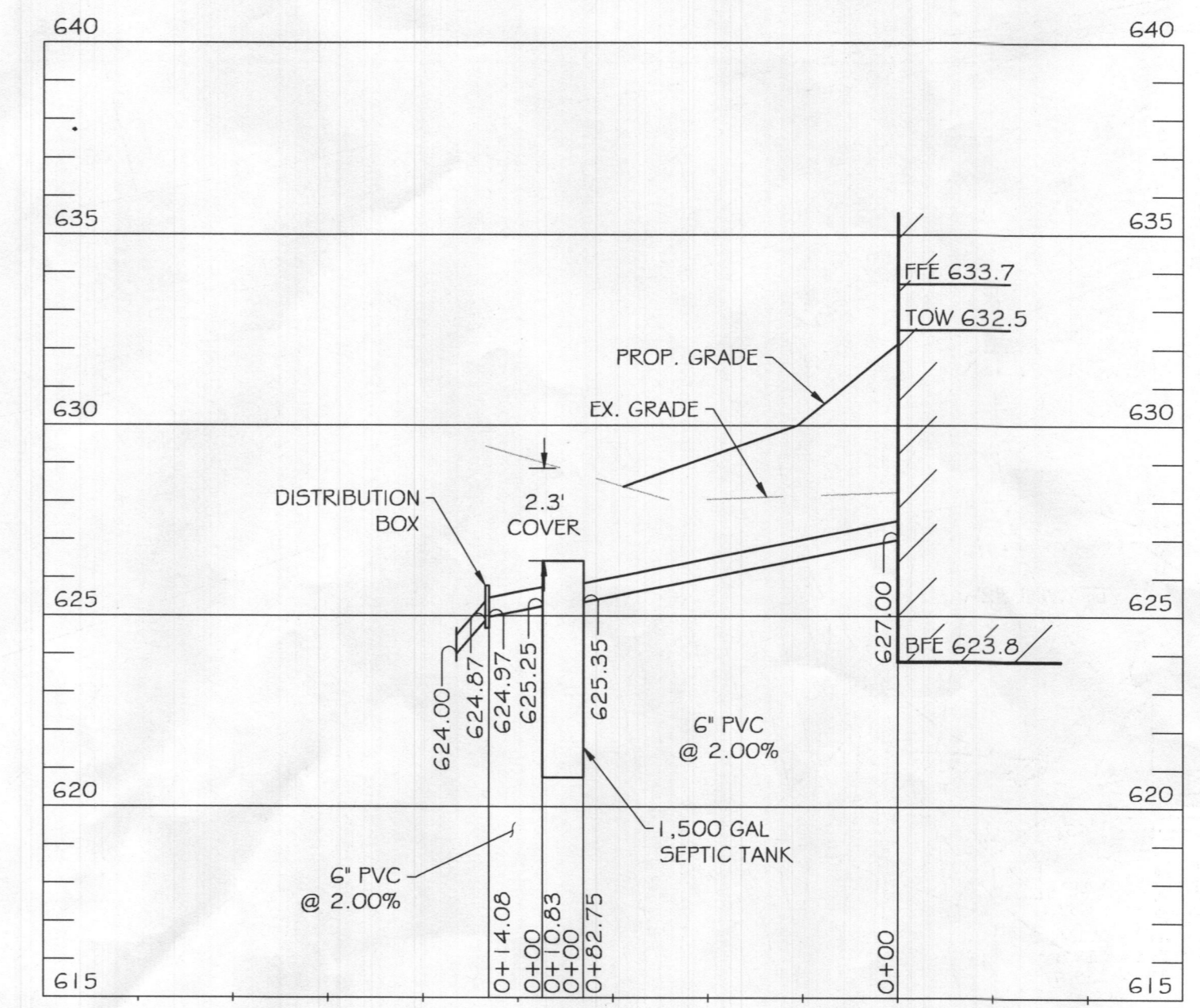
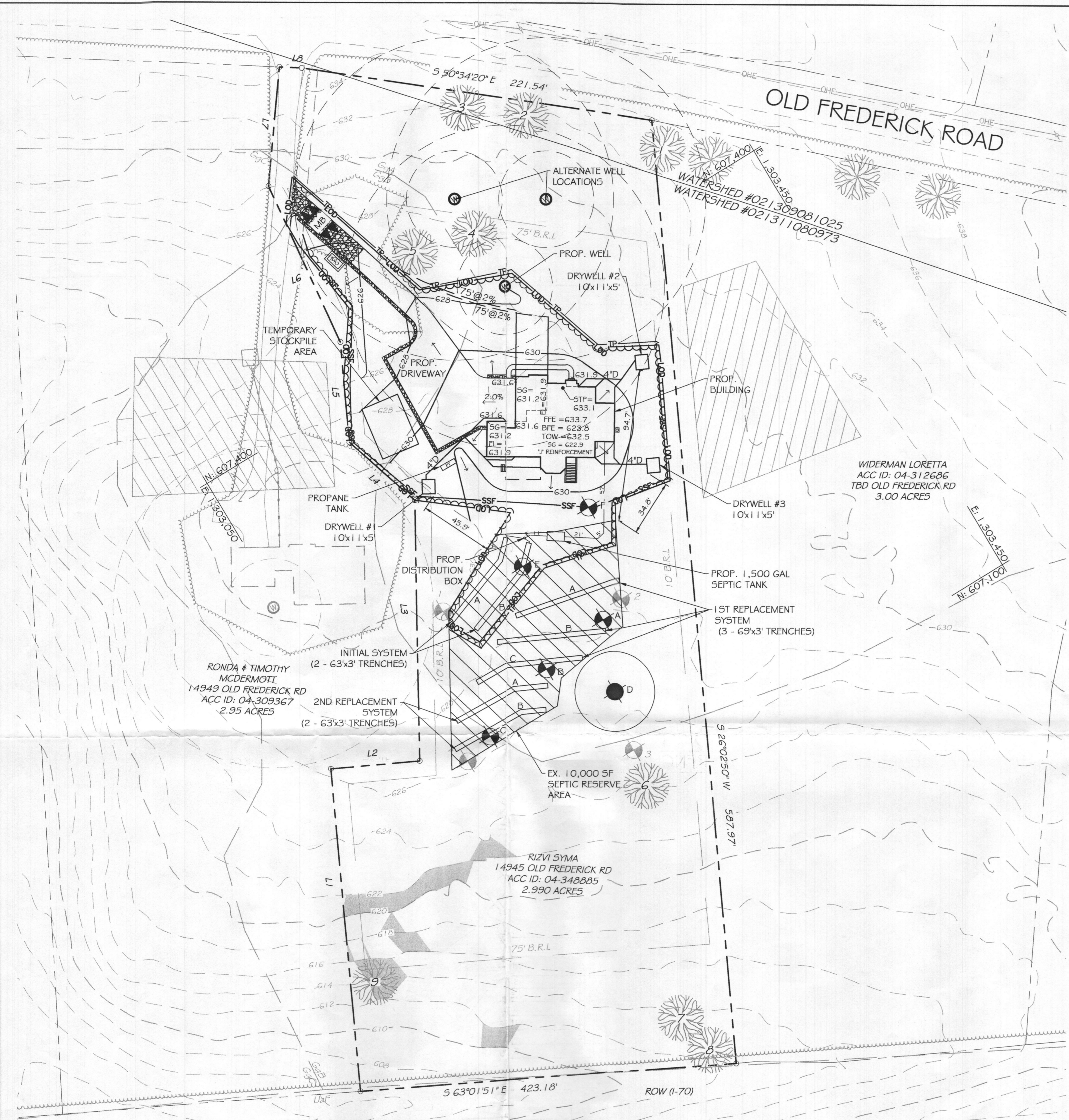
LOT 5, RIZVI PROPERTY
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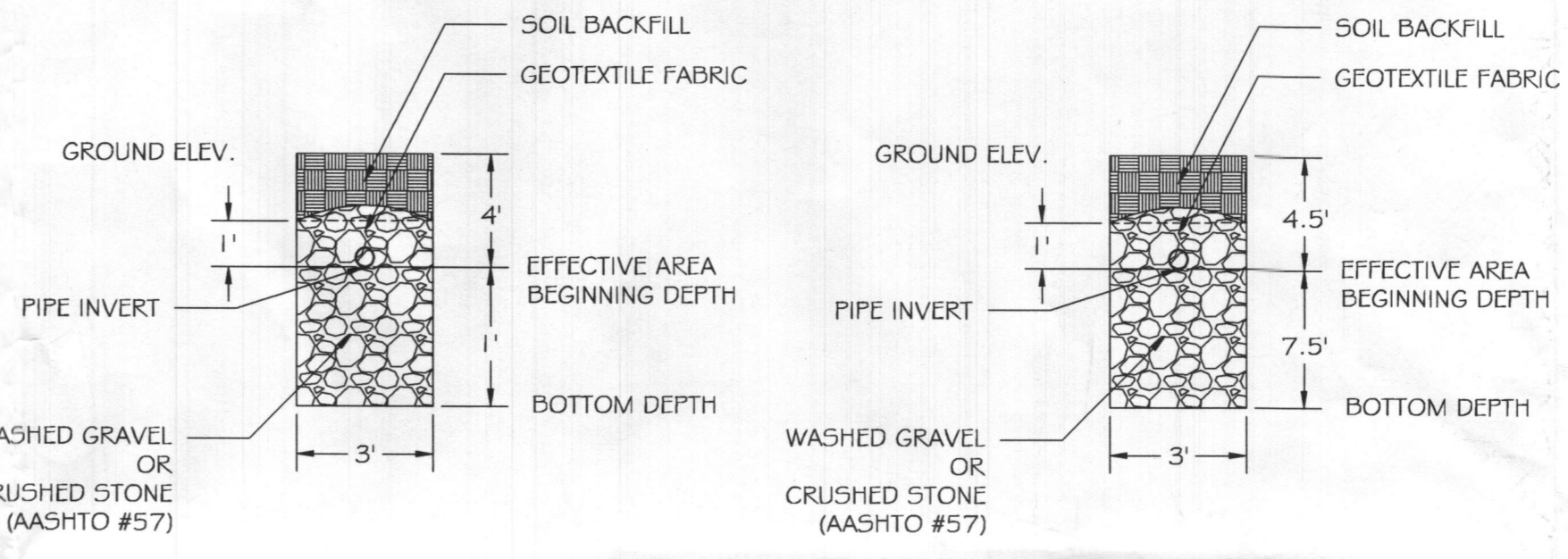
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DRAWING NO.
SHEET 1 OF 1
KCI JOB NUMBER
271803754.112



EX. SEPTIC SYSTEM PROFILE

SCALE: H. 1" = 40'
V. 1" = 4'



1ST REPLACEMENT TRENCH DETAIL

2ND REPLACEMENT TRENCH DETAIL

TRENCH LENGTH AND SPACING CALCULATIONS
TRENCH DESIGN (4 BDRM X 150 GPD/BDRM = 600 GPD)

INITIAL SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 3" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 5' - 8'
750 SF / 2' WIDTH = 250 LF x 0.50 = 125 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES

1ST REPLACEMENT SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 2" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4' - 5'
750 SF / 3' WIDTH = 250 LF x 0.83 = 208 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES

2ND REPLACEMENT SYSTEM
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 3' WIDE TRENCH W/ 3" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4.5' - 7.5'
750 SF / 2' WIDTH = 250 LF x 0.50 = 125 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES

- 2 - 63' LONG TRENCHES FOR INITIAL SYSTEM
- 3 - 69' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
- 2 - 63' LONG TRENCHES FOR 2ND REPLACEMENT SYSTEM

PERC RESULTS (10/01/99B)

TEST #	TIME FOR 1" DROP (MINUTES)
1	4
2	8
3	20
4	10
AVG.	10.5

PERC RESULTS (6/15/2022)

TEST #	DEPTH (FT)	TIME FOR 1ST 1" DROP (MINUTES)	TIME FOR 2ND 1" DROP (MINUTES)
A	5	3	5
B	5.5	5	11
C	6	8	11
D	FAILED	FAILED	FAILED
E	6	10	15
F	5	11	16

PROPERTY BOUNDARY LINE TABLE

LINE	BEARING	DISTANCE
L1	N 26°02'56" E	200.48'
L2	S 63°57'04" E	55.73'
L3	N 30°12'56" E	161.98'
L4	N 17°18'48" W	54.62'
L5	N 26°02'56" E	62.49'
L6	N 06°19'11" E	106.56'
L7	N 36°24'52" E	73.94'
L8	S 56°22'55" E	14.02'

APPROXIMATE ELEVATIONS

	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	629.7	624.0	621.0
INITIAL SYSTEM TRENCH B	629.0	624.0	621.0
1ST REPLACEMENT TRENCH A	629.0	623.8	622.8
1ST REPLACEMENT TRENCH B	628.0	623.8	622.8
1ST REPLACEMENT TRENCH C	627.8	623.8	622.8
2ND REPLACEMENT TRENCH A	627.3	622.1	619.1
2ND REPLACEMENT TRENCH B	626.6	622.1	619.1

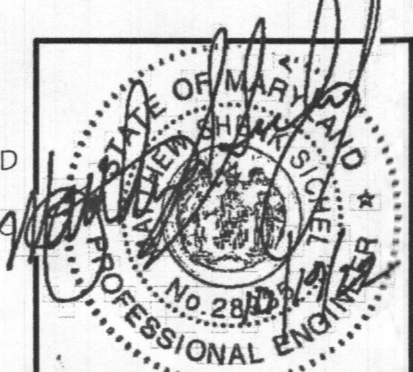
RELATIVE DEPTHS

	PIPE INVERT BELOW GROUND	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A#B	5.0'	5.0'	8.0'
1ST REPLACEMENT TRENCH A,B#C	4.0'	4.0'	5.0'
2ND REPLACEMENT TRENCH A#B	4.5'	4.5'	7.5'

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREIN IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. LICENSE NO. 28935 EXPIRATION DATE: 1/15/2023



KCI TECHNOLOGIES
ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
936 RIDGEBROOK ROAD
SPARKS, MARYLAND 21152
TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE: 10/18/2022
SCALE: 1" = 30'
DESIGNED BY: JDL
DRAWN BY: JDL

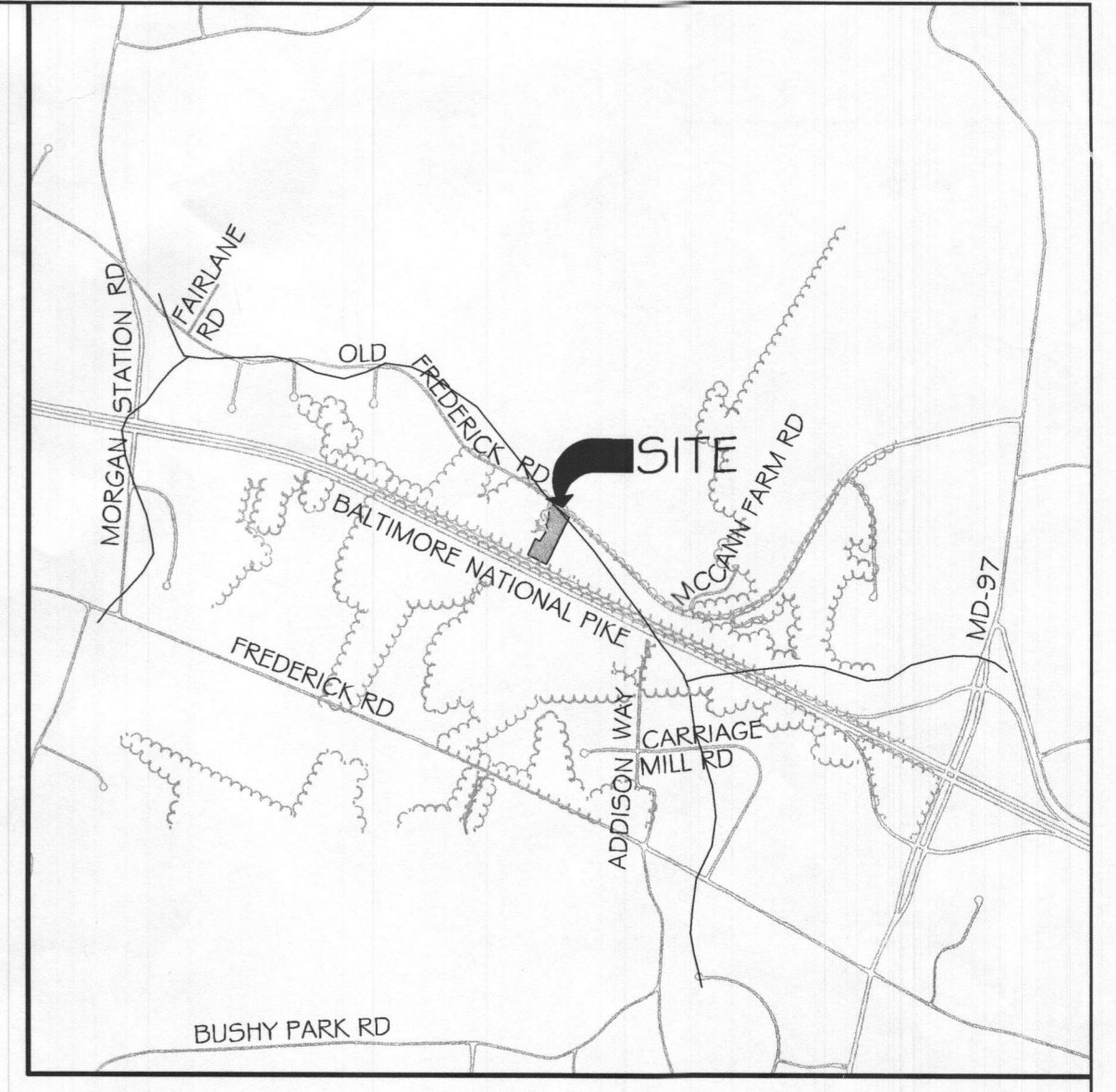
LOT 5, RIZVI PROPERTY
ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
14945 OLD FREDERICK ROAD
WOODBINE, MD 21797
TAX#: 348885, SUB: 1001

OWNER:
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DEVELOPER:
KEYSTONE CUSTOM HOMES
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227 GRANITE RUN DR, SUITE 100,
LANCASTER, PA 17601
(717) 464-9060 EXT. 1108

DESIGNER:
KCI TECHNOLOGIES INC.
FRANK WHITE
936 RIDGEBROOK RD,
SPARKS, MD 21152
(410) 316-0803

DRAWING NO.
SHEET 1 OF 1
KCI JOB NUMBER
271803754.112

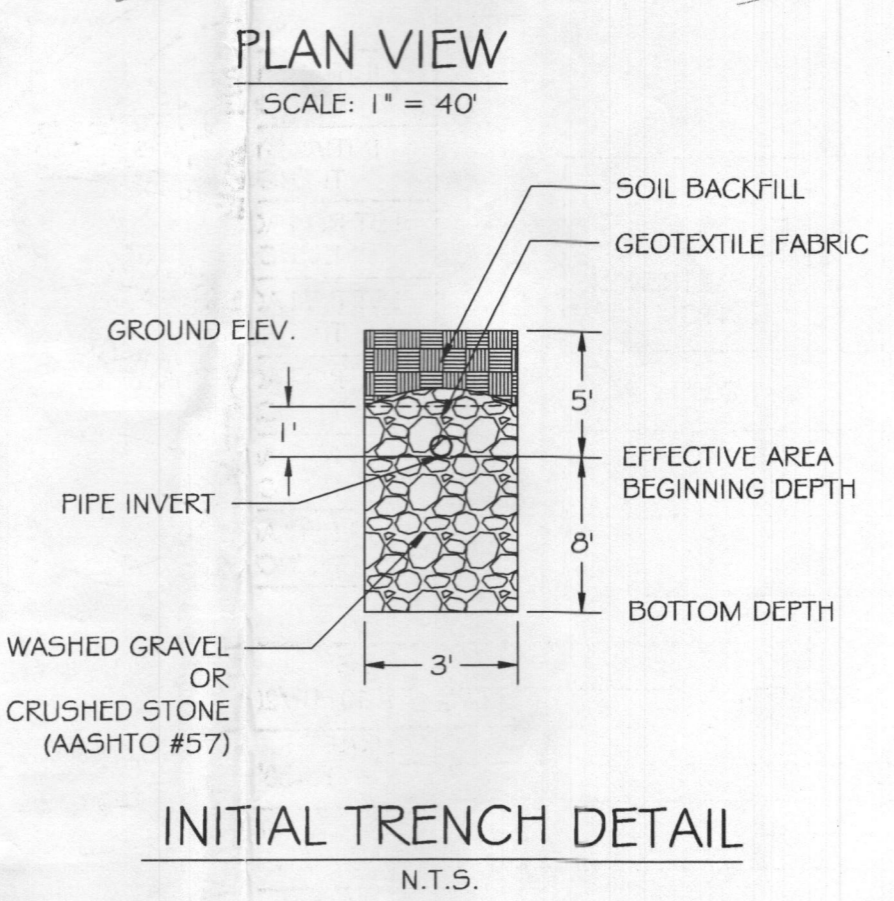


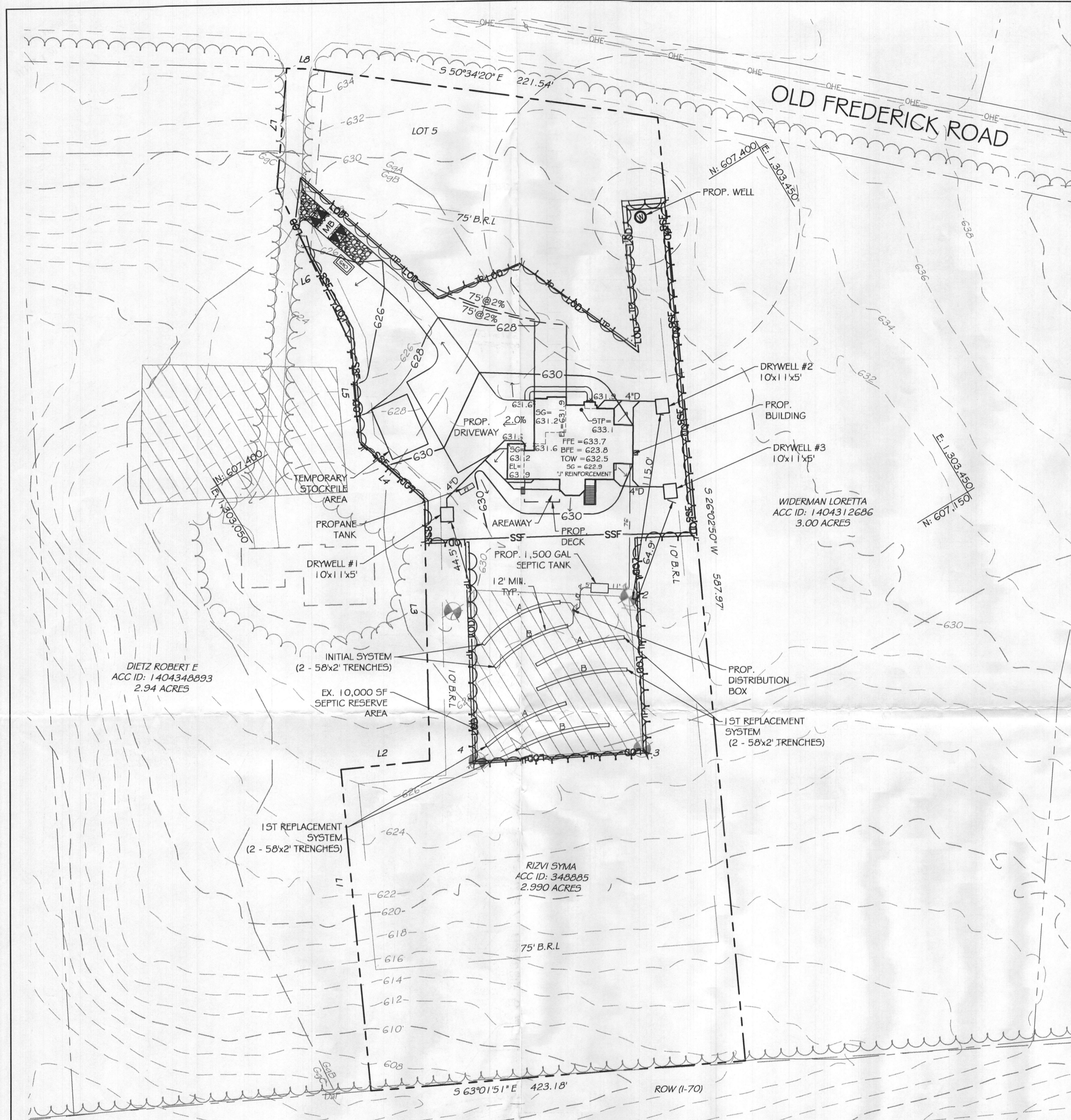
VICINITY MAP
SCALE: 1" = 2000'

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
- EXISTING SYSTEM LOCATION HAVE BEEN OBTAINED FROM THE HEALTH DEPARTMENT AND THE PROPERTY OWNER.
- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE AREA. RECORDATION OF A MODIFIED SEWAGE AREA SHALL NOT BE NECESSARY.
- TOPOGRAPHY SHOWN IS AT TWO-FOOT CONTOUR INTERVALS (ONE-FOOT INTERVALS ARE REQUIRED FOR MOUND SYSTEMS AND SYSTEMS WITH PIPE DEPTH LESS THAN TWO FEET) AND HAS BEEN FIELD VERIFIED.
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- THE LOT SHOWN HEREIN COMPLIES WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- A PROFESSIONAL SURVEYOR OR ENGINEER MUST MARK THE PROPERTY LINE WHEN THE TRENCHES ARE BEING INSTALLED IN AREAS WHERE THE PROPERTY LINE SETBACK HAS BEEN REDUCED.

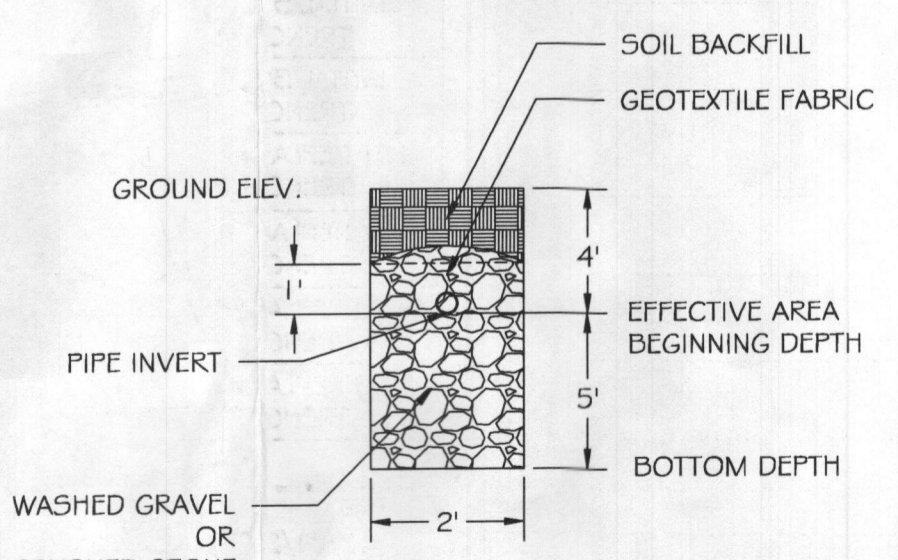
Revise.
gjb 11/29/22

- LEGEND**
- 759 --- EXISTING MINOR CONTOUR (2' INTERVAL)
 - 760 --- EXISTING MAJOR CONTOUR (10' INTERVAL)
 - 307.90 --- ADJACENT PROPERTY LINE
 - N22°37'18"W --- EXISTING PROPERTY BOUNDARY
 - EXISTING ROAD / EDGE OF PAVING
 - EXISTING ROAD CENTERLINE
 - 761 --- PROPOSED MINOR CONTOUR (2' INTERVAL)
 - 760 --- PROPOSED MAJOR CONTOUR (10' INTERVAL)
 - [Symbol] --- EXISTING BUILDING
 - [Symbol] --- PROPOSED BUILDING
 - 765.0 X --- PROPOSED SPOT ELEVATION
 - LIMIT OF DISTURBANCE
 - PROPOSED SILT FENCE
 - BrC --- SOIL DELINEATION LINE
 - GdB --- EXISTING PERCOLATION TEST HOLE





PLAN VIEW
SCALE: 1" = 40'



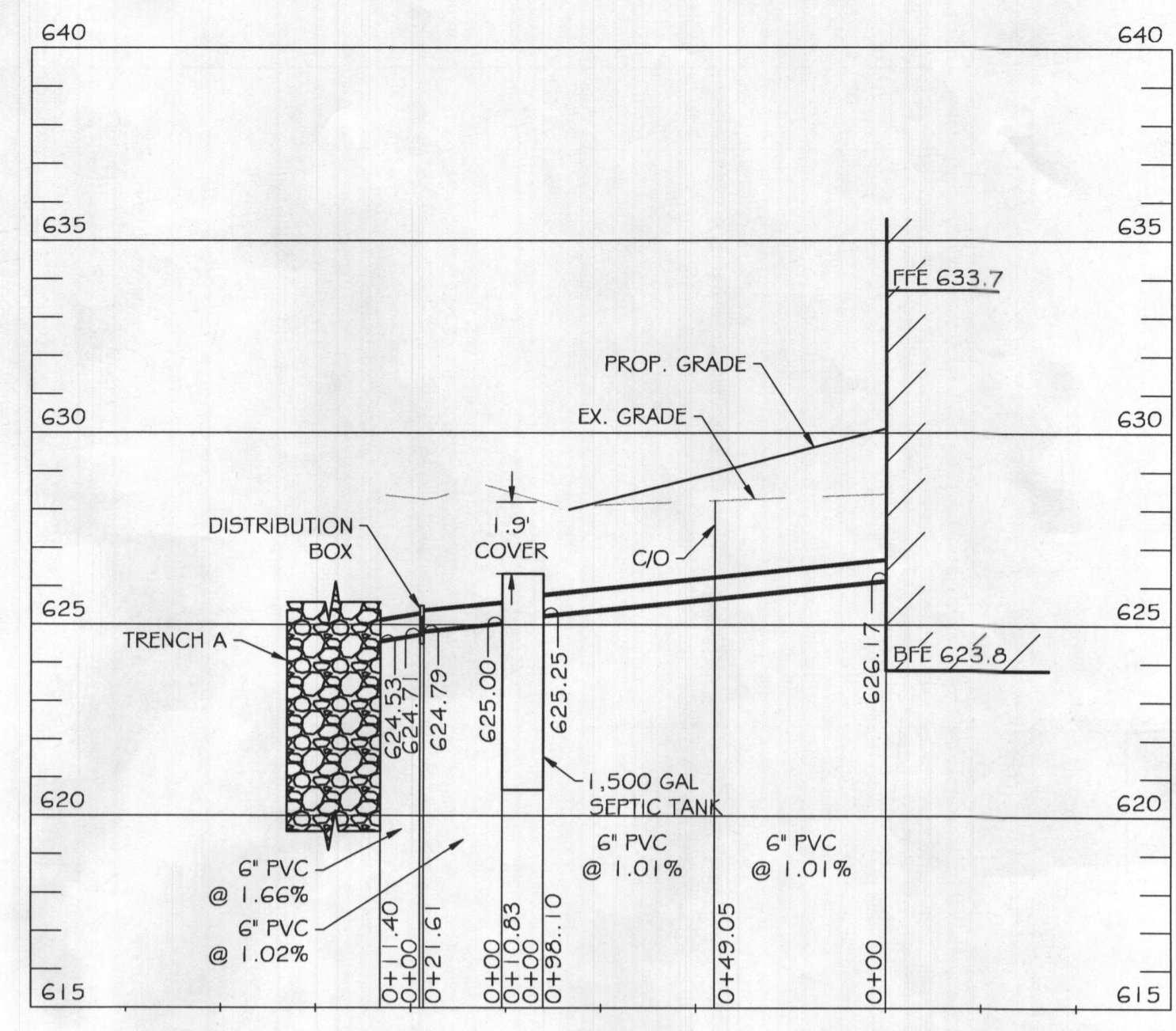
TRENCH DETAIL
N.T.S.

- LEGEND**
- 75.9- EXISTING MINOR CONTOUR (2' INTERVAL)
 - 76.0- EXISTING MAJOR CONTOUR (10' INTERVAL)
 - 307.90- ADJACENT PROPERTY LINE
 - 307.90- EXISTING PROPERTY BOUNDARY
 - 76.1- EXISTING ROAD / EDGE OF PAVING
 - 76.0- EXISTING ROAD CENTERLINE
 - 76.1- PROPOSED MINOR CONTOUR (2' INTERVAL)
 - 76.0- PROPOSED MAJOR CONTOUR (10' INTERVAL)
 - [Symbol] EXISTING BUILDING
 - [Symbol] PROPOSED BUILDING
 - [Symbol] PROPOSED SPOT ELEVATION
 - [Symbol] LIMIT OF DISTURBANCE
 - [Symbol] PROPOSED SILT FENCE
 - [Symbol] BrC SOIL DELINEATION LINE
 - [Symbol] GdB EXISTING PERCOLATION TEST HOLE

Revise. JB 1/31/22

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE

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EX. SEPTIC SYSTEM PROFILE
SCALE: H. 1" = 40' V. 1" = 4'

TRENCH LENGTH AND SPACING CALCULATIONS
TRENCH DESIGN (4 BDRM X 150 GPD/BDRM = 600 GPD)

- INITIAL SYSTEM**
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 2' WIDE TRENCH W/ 60" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4' - 9"
750 SF / 2' WIDTH = 375 LF x 0.308 = 116 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES
- 1ST REPLACEMENT SYSTEM**
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 2' WIDE TRENCH W/ 60" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4' - 9"
750 SF / 2' WIDTH = 375 LF x 0.308 = 116 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES
- 2ND REPLACEMENT SYSTEM**
600 GPD / 0.8 GPD/SF (APP. RATE) = 750 SF
USE 2' WIDE TRENCH W/ 60" OF GRAVEL BELOW PIPE, EFFECTIVE AREA 4' - 9"
750 SF / 2' WIDTH = 375 LF x 0.308 = 116 LF MIN. TRENCH
12' MIN. SPACING BETWEEN TRENCH EDGES

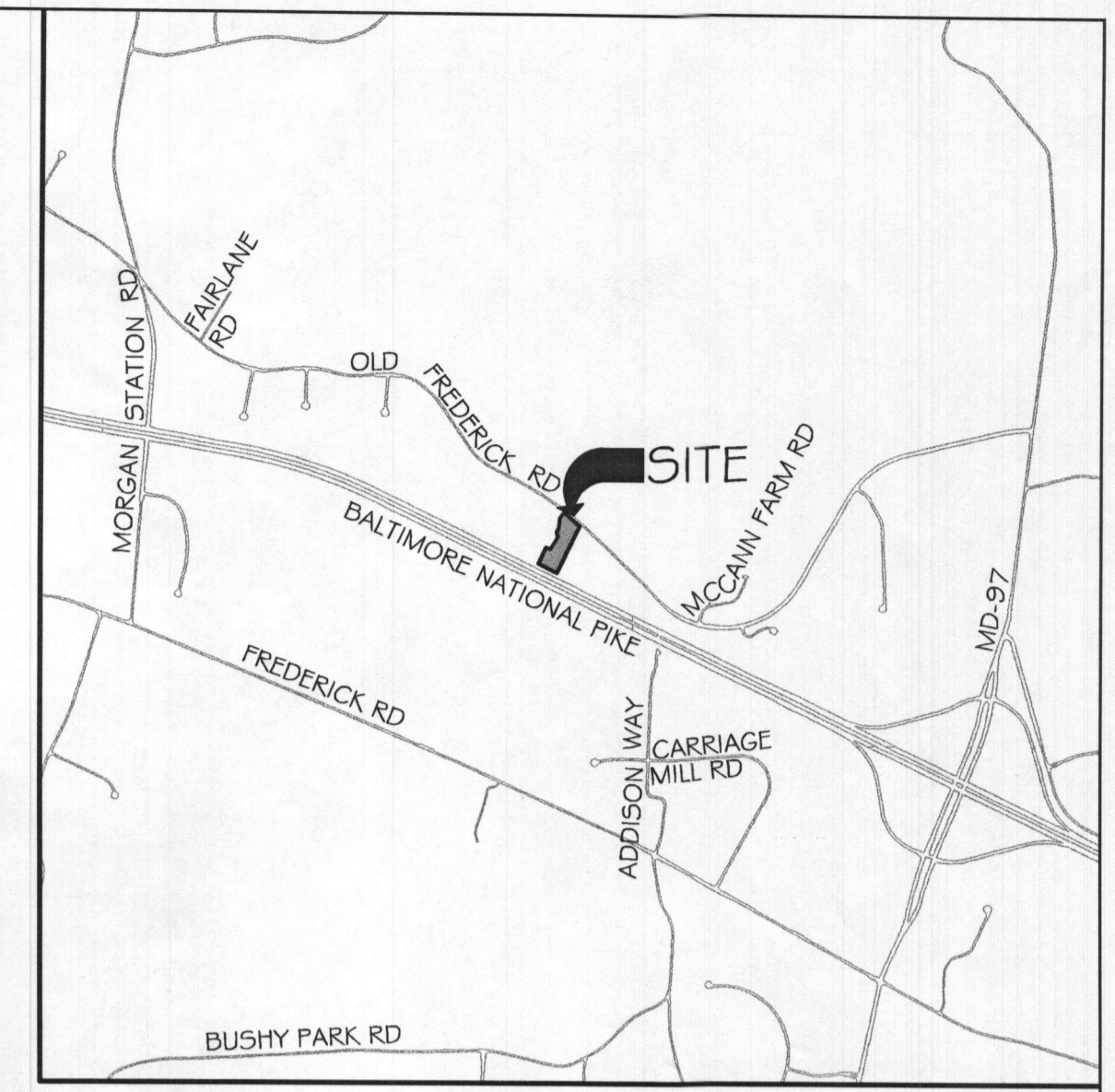
- 2 - 58' LONG TRENCHES FOR INITIAL SYSTEM
- 2 - 58' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
- 2 - 58' LONG TRENCHES FOR 2ND REPLACEMENT SYSTEM

PERC RESULTS (10/10/1990)	
LINE	TIME FOR 1" DROP (MINUTES)
1	4
2	8
3	20
4	10
AVG.	10.5

PROPERTY BOUNDARY LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 26°02'56" E	200.48'
L2	S 63°57'04" E	55.73'
L3	N 30°12'56" E	161.98'
L4	N 17°18'48" W	54.62'
L5	N 26°02'56" E	62.49'
L6	N 06°19'11" E	106.56'
L7	N 36°24'52" E	73.94'
L8	S 56°22'55" E	14.02'

RELATIVE DEPTHS			
	PIPE INVERT	EFFECTIVE AREA BEGINNING	MAXIMUM TRENCH BOTTOM
INITIAL SYSTEM TRENCH A	4.0	4.0	9.0
INITIAL SYSTEM TRENCH B	4.0	4.0	9.0
1ST REPLACEMENT TRENCH A	4.0	4.0	9.0
1ST REPLACEMENT TRENCH B	4.0	4.0	9.0

APPROXIMATE ELEVATIONS			
	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
INITIAL SYSTEM TRENCH A	628.5	624.5	619.5
INITIAL SYSTEM TRENCH B	628.0	624.0	619.0
1ST REPLACEMENT TRENCH A	627.9	623.9	618.9
1ST REPLACEMENT TRENCH B	627.0	623.0	618.0
2ND REPLACEMENT TRENCH A	626.4	623.4	618.4
2ND REPLACEMENT TRENCH B	625.7	622.7	617.7



VICINITY MAP
SCALE: 1" = 2000'

- GENERAL NOTES:**
1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
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 10. THE 1ST REPLACEMENT SYSTEM WILL REQUIRE A PRESSURIZED DISTRIBUTION DESIGN AND A PUMP TANK AND PUMP WILL BE NEEDED AT TIME OF REPAIR.
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OWNER:
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DEVELOPER:
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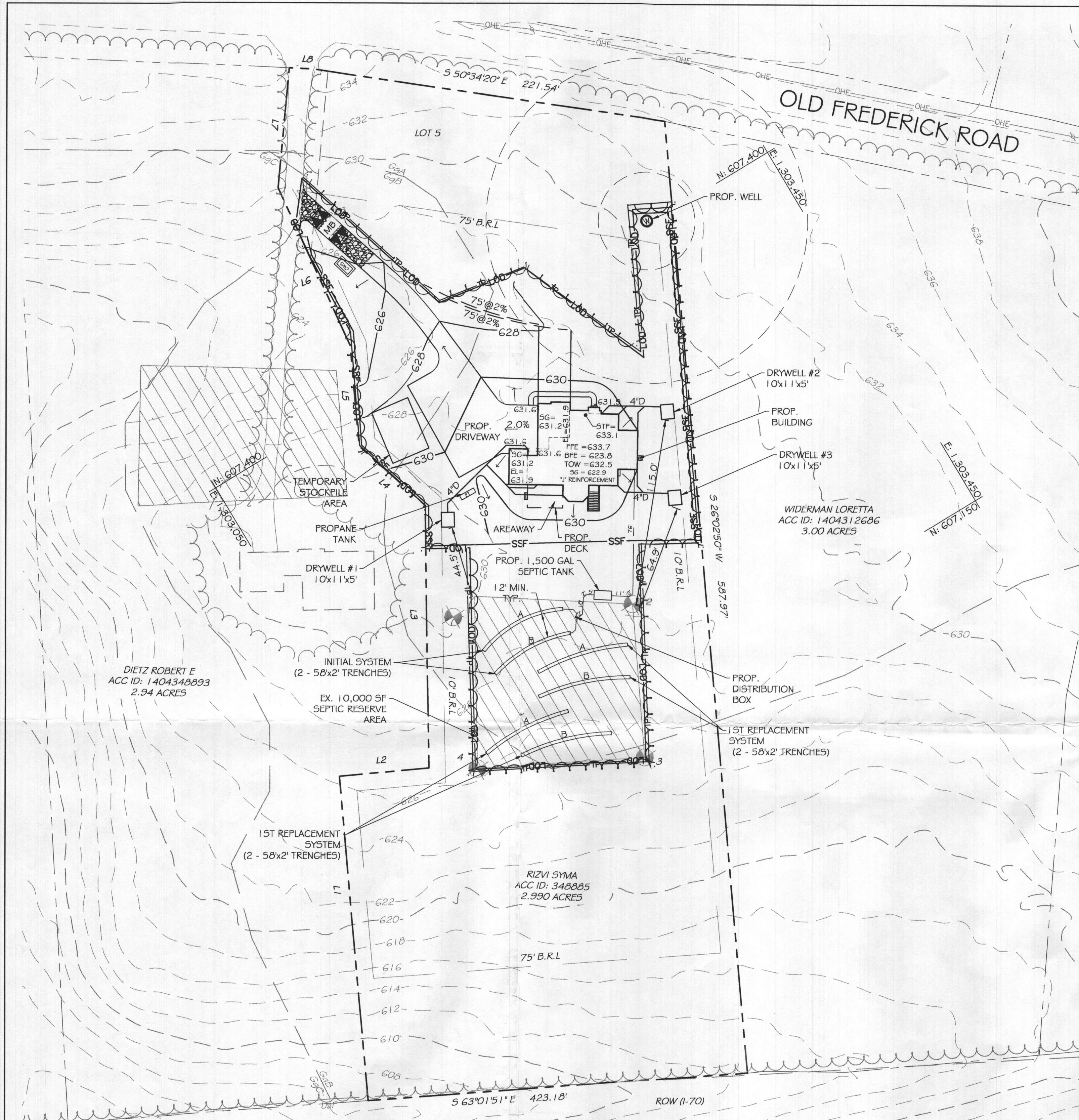
DESIGNER:
KCI TECHNOLOGIES INC.
MICHAEL MARKAKIS
936 RIDGEBROOK RD,
SPARKS, MD 21152
(732) 535-3605

KCI TECHNOLOGIES
ENGINEERS
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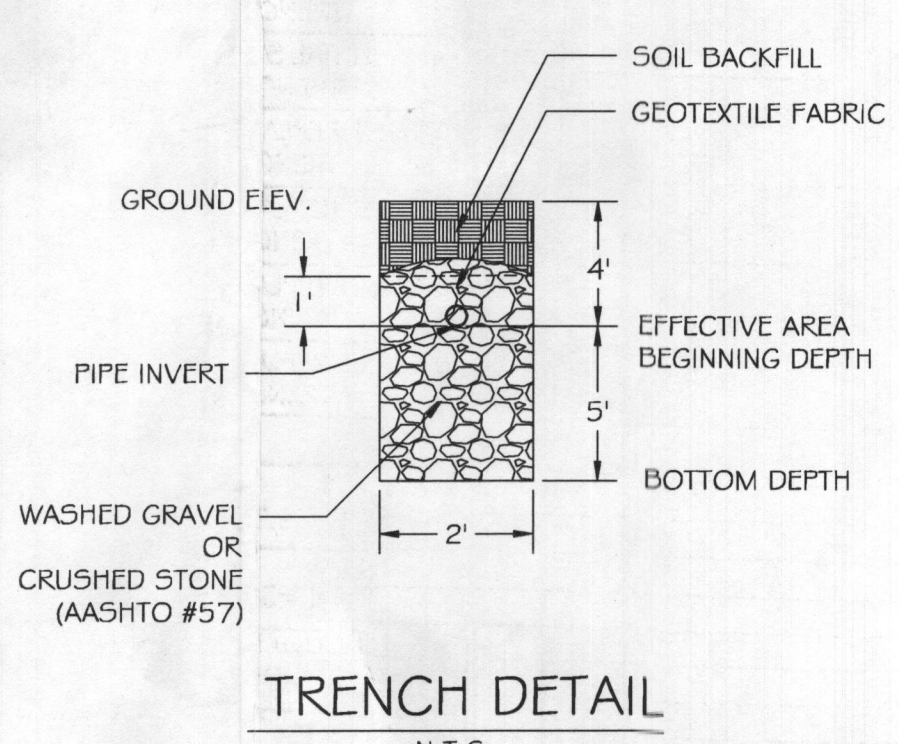
REVISIONS			
NO.	DATE	DESCRIPTION	BY

LOT 5, RIZVI PROPERTY
ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
14945 OLD FREDERICK ROAD
WOODBINE, MD 21797
TAX#: 348885, SUB: 1001

DRAWING NO.
SHEET 1 OF 1
KCI JOB NUMBER
271803754.112



PLAN VIEW
SCALE: 1" = 40'



TRENCH DETAIL
N.T.S.

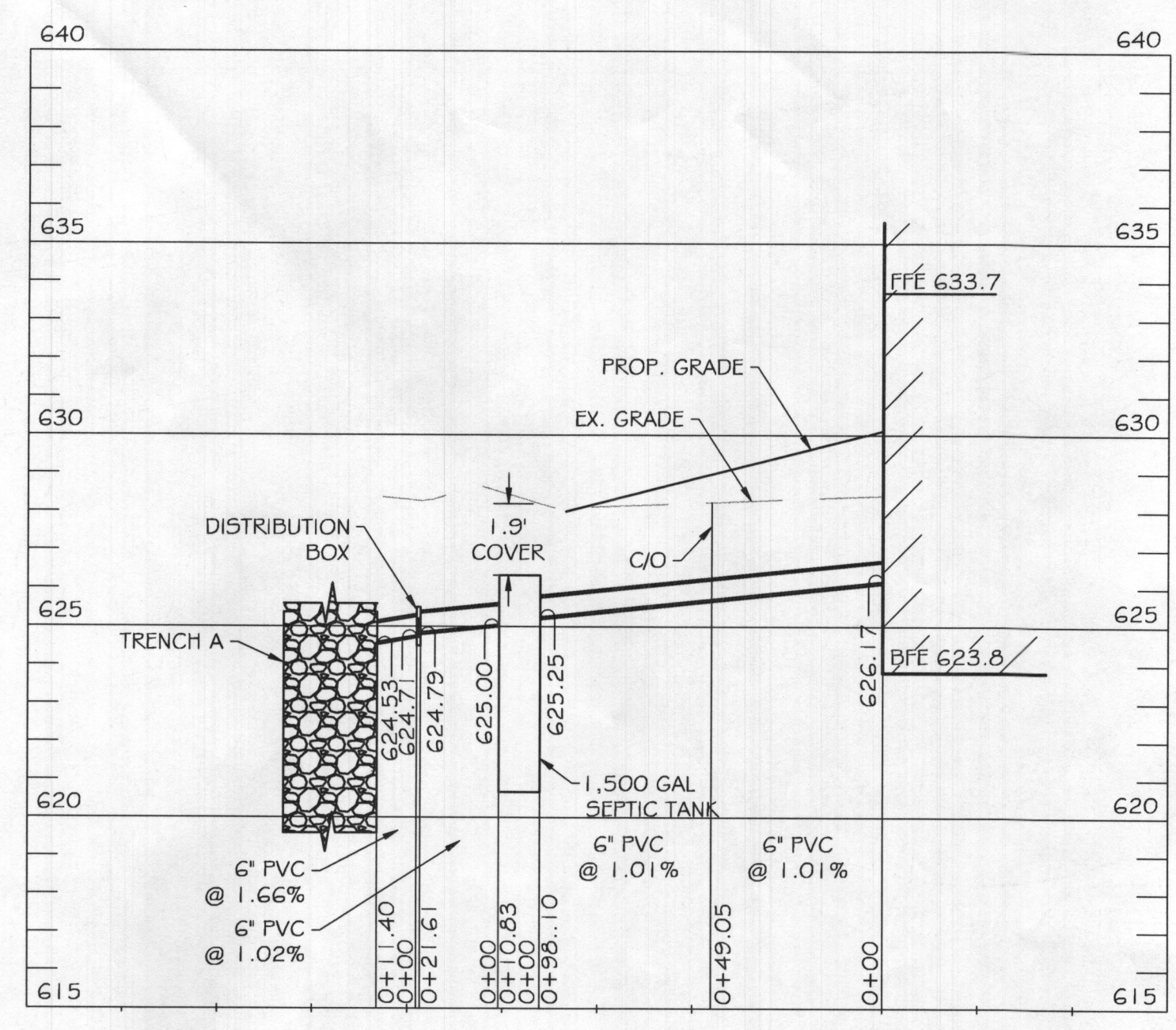
LEGEND

- 750- EXISTING MINOR CONTOUR (2' INTERVAL)
- 760- EXISTING MAJOR CONTOUR (10' INTERVAL)
- ADJACENT PROPERTY LINE
- EXISTING PROPERTY BOUNDARY
- EXISTING ROAD / EDGE OF PAVING
- EXISTING ROAD CENTERLINE
- 761- PROPOSED MINOR CONTOUR (2' INTERVAL)
- 760- PROPOSED MAJOR CONTOUR (10' INTERVAL)
- EXISTING BUILDING
- PROPOSED BUILDING
- PROPOSED SPOT ELEVATION
- LIMIT OF DISTURBANCE
- PROPOSED SILT FENCE
- SOIL DELINEATION LINE
- EXISTING PERCOLATION TEST HOLE

Revise.
gB 1/31/22

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
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TRENCH DESIGN (4 BDRM X 150 GPD/BDRM = 600 GPD)

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12' MIN. SPACING BETWEEN TRENCH EDGES

2ND REPLACEMENT SYSTEM
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2 - 58' LONG TRENCHES FOR INITIAL SYSTEM
2 - 58' LONG TRENCHES FOR 1ST REPLACEMENT SYSTEM
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PERC RESULTS (10/10/1998)

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1	4
2	8
3	20
4	10
AVG.	10.5

PROPERTY BOUNDARY LINE TABLE

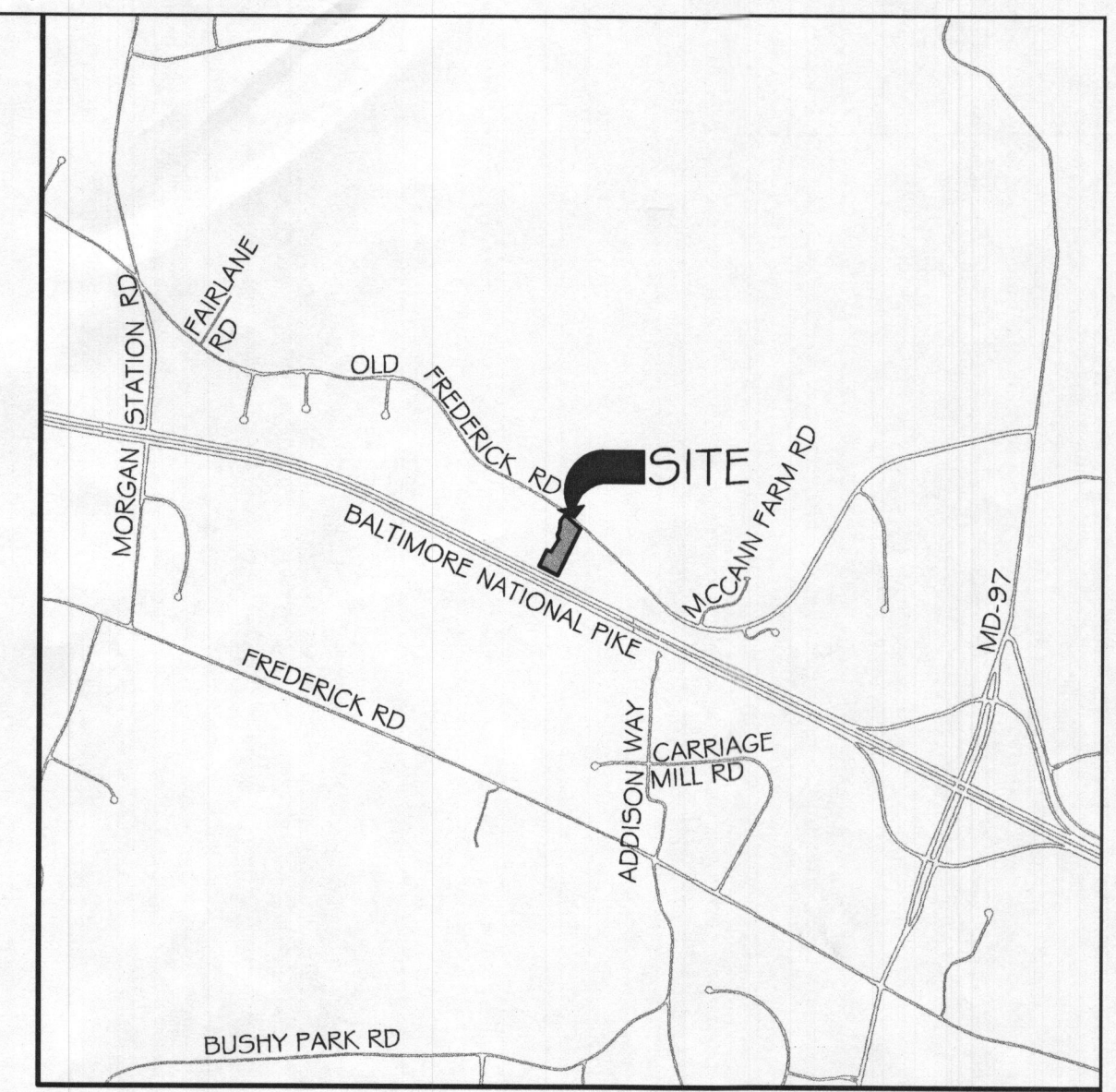
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RELATIVE DEPTHS

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VICINITY MAP
SCALE: 1" = 200'

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TELEPHONE: (410) 316-7800
FAX: (410) 316-7818

REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE: 12/09/2021
SCALE: 1" = 30'
DESIGNED BY: MAM
DRAWN BY: MAM

LOT 5, RIZVI PROPERTY
ON-SITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN
14945 OLD FREDERICK ROAD
WOODBINE, MD 21797
TAX#: 348885, SUB: 1001

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