

COUNTY #

SOIL PROFILE
834 833

5'-2" Heavy Br Loam
Red Br Si Cl Loam
~25% Rock
3'-4.5" Tan Sa Loam
10-15% Saprolite

832

Brand Red Br Heavy Loam and Si Cl Loam
~10% Rock

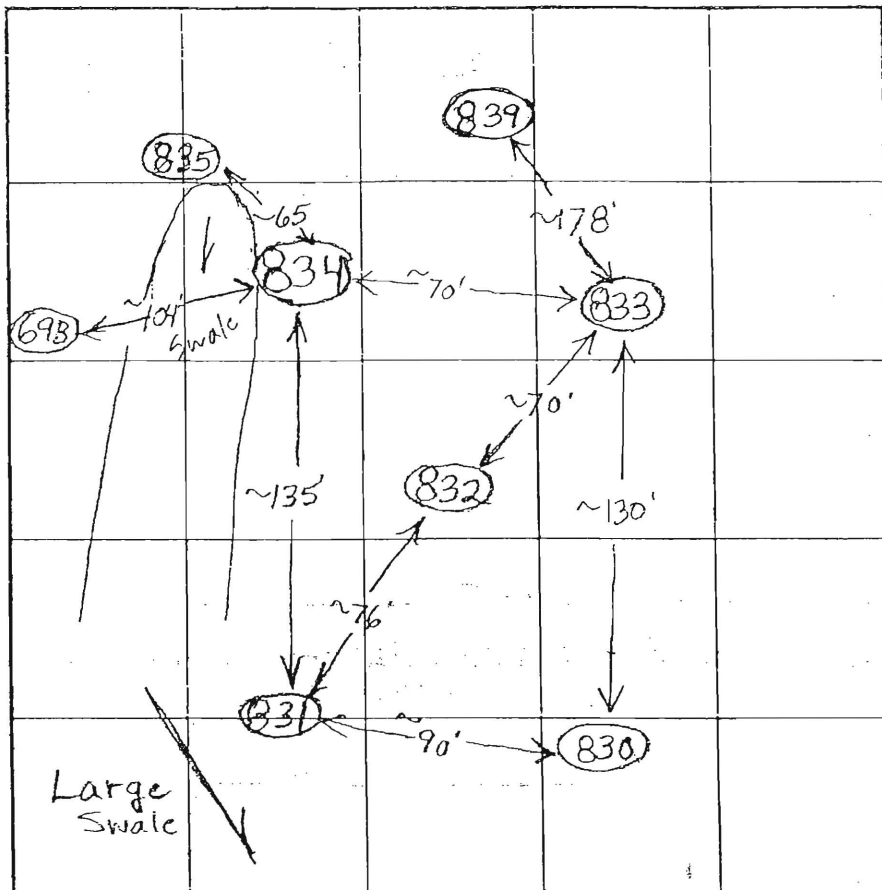
14" Tan Sa Loam
~10% Saprolite

830

Red Br Heavy Loam

1-3" Red Br Si Cl Loam
Mostly Silt
Trace Rock

5'-5.5" Or Br Si Cl Loam Gradually Turning To A Tan Sa Loam
~15% Saprolite
Wet Near Bottom



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE
831

2.5' Red Br Heavy Loam and Topsoil
Red Br Si Cl Loam and Sa Cl Loam
~10% Rock
6.5'-7' Med Br Sa Loam
~20% Rock and Saprolite
Water 13.5'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
2/17/04	834	4' / 14" V	10:20:30	10:32	10:32	10:47	15	O.K.
		6' 10"	10:20	10:20:45	10:20:45	10:22:15	1 1/2	
	833	4' / 14.5" V	10:37	10:48	10:48	11:09	21	O.K.
		6.5'	10:37	10:39:30	10:39:30	10:45	3 1/2	
	832	4' / 14" V	10:54	11:00	11:00	11:11	11	O.K.
		6.5'	10:54:15	10:56:30	10:56:30	11:01	4 1/2	
	830	5' / 13.5" V	11:17	< 1/4" in 10 minutes			Slow	(F)
		7' 3"	11:17	11:43	11:43	< 1/4" in 15 minutes		Slow
	831	6.5' / 13.5" V	11:43	< 1/4" in 15 minutes			Slow	Marg.
		7.5'	11:42	11:43	11:43	11:45:15	~2	

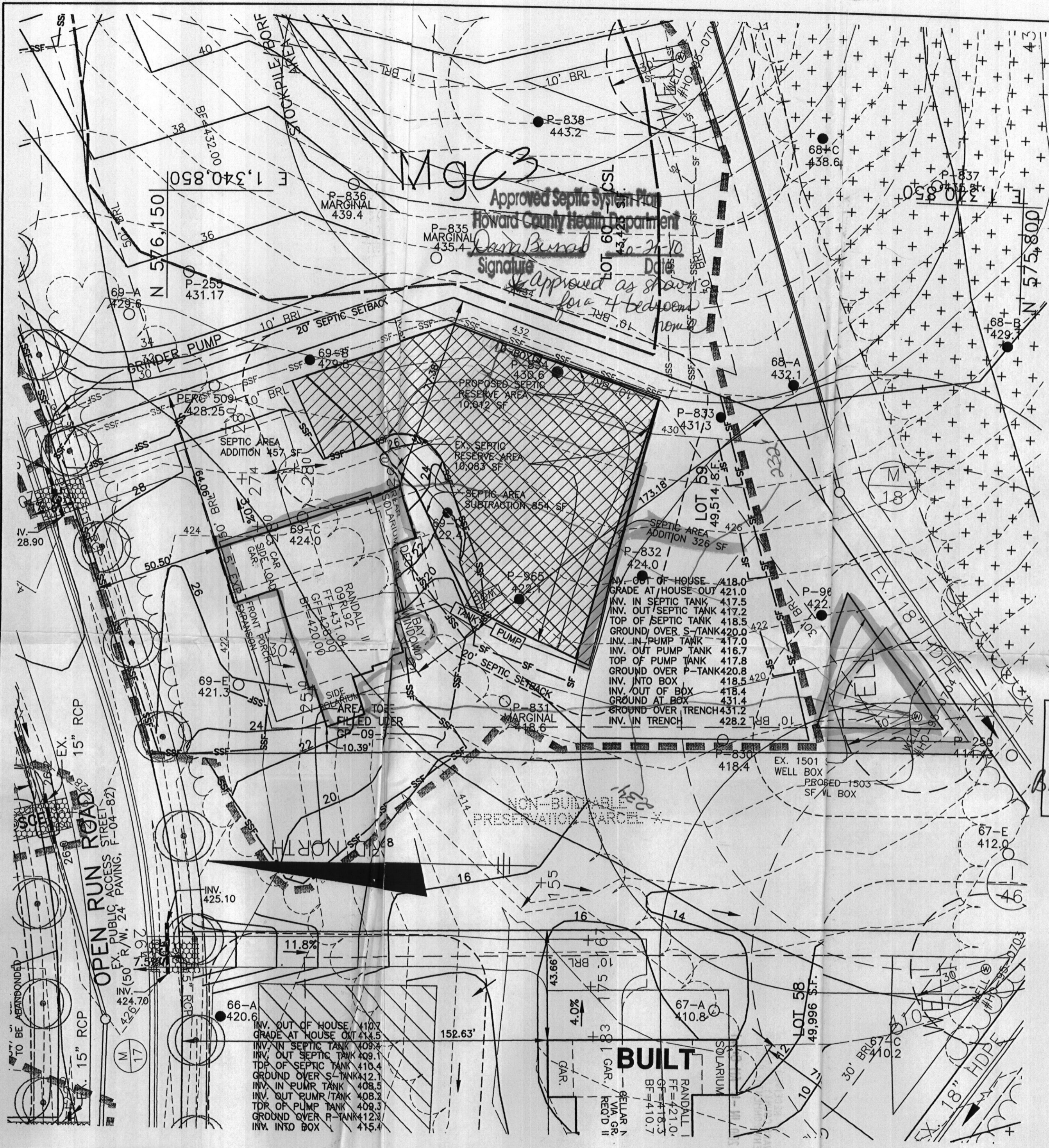
REMARKS Suggest Moving Uphill of Hole 831 - Water Level Near Large Center Swale Is Unpredictable

TESTED BY B. Baker

ALSO PRESENT

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

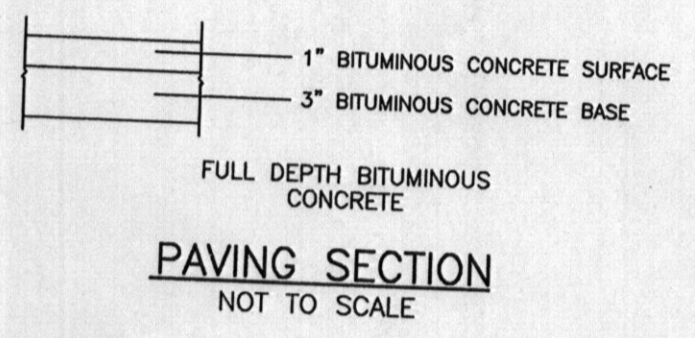
INLET DEPTH MAXIMUM BOTTOM DEPTH SQ. FT. BEDROOM



Approved Septic System Plan
Howard County Health Department
Dan Burnad
 Signature
 Approved as shown for 4 bedrooms
 Date 6/3/10

NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR RIVERWOOD, PLAT No. 19723. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREAS AND ALL EASEMENTS.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT 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 SEWERAGE EASEMENT. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
3. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER GP-05-31 AND MODIFIED FOR THIS SPECIFIC HOUSE.
4. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND HAS BEEN FIELD VERIFIED BY J.A. RICE, INC., ON OR ABOUT SEPTEMBER 2002.
5. EXACT LENGTH OF SEPTIC TRENCHES ARE BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
6. SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
7. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
8. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS.
9. SEPTIC TANK FOR THIS LOT TO BE 2,000 GALLONS.
10. THE EXISTING WELL SHOWN ON THIS PLAN, HO-95-0704, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.
11. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
12. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
13. STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED IN POND #4 OF F-04-082, A WET ED POND.
14. THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO REVISE THE SEPTIC AREA FOR GRADING ASSOCIATED WITH THE HOUSE CONSTRUCTION AND TO LOCATE THE WELL BOX FURTHER FROM THE SEPTIC AREA.



LEGEND

- EXISTING CONTOURS ESTABLISHED UNDER F-04-082
- FIELD SURVEYED WELL LOCATION
- PASSED PERCOLATION TEST PER TEST NOTES
- FAILED PERCOLATION TEST PER TEST NOTES
- EXISTING APPROVED SEPTIC RESERVE AREA
- PROPOSED REVISED SEPTIC RESERVE AREA

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF.

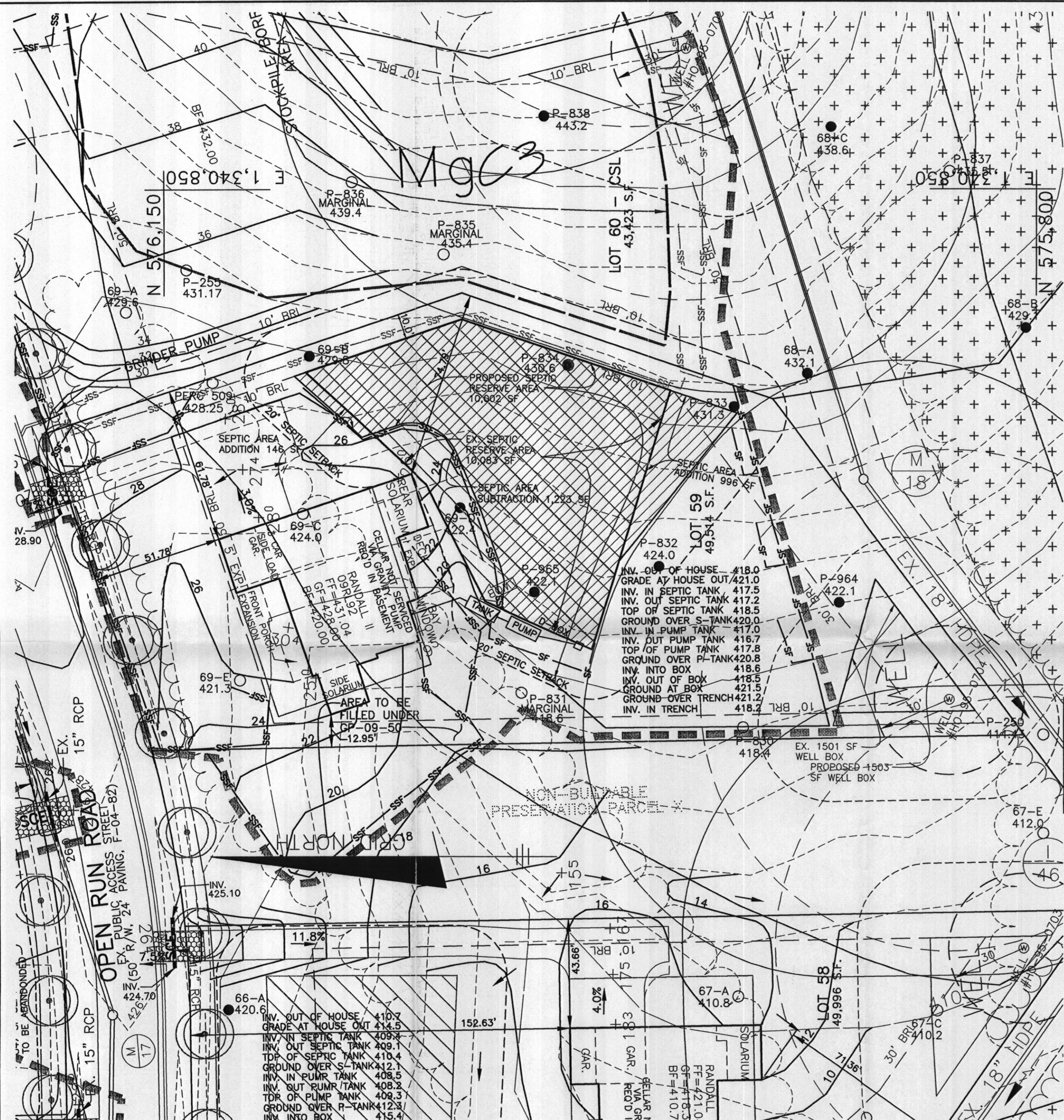
John M. Carney 6/3/10
 PLAN PREPARER
 JOHN M. CARNEY FOR BENCHMARK ENGINEERING, INC.

APPROVED:
 FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
 HOWARD COUNTY HEALTH DEPARTMENT
B. W. [Signature] 6/21/10
 COUNTY HEALTH OFFICER DATE

BENCHMARK
 ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.

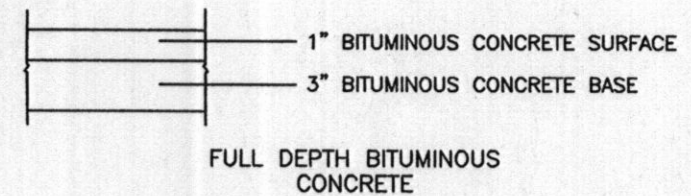
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 ▲ FAX: 410-465-6644
 EMAIL: benchmrk@cais.com

OWNER/BUILDER: CAMBERLEY HOMES, INC. 6905 ROCKLEDGE DRIVE SUITE 800 BETHESDA, MD 20817 PHONE: 301-803-4800 FAX: 301-803-4929		PROJECT: RIVERWOOD LOT 59	
LOCATION: 12057 OPEN RUN ROAD ELLICOTT CITY, MD 21042 TAX MAP No. 29 - BLOCK Nos. 3, 4, 9 & 10 - PARCEL No. 20 3rd ELECTION DISTRICT, HOWARD COUNTY, MARYLAND		TITLE: REVISED PERCOLATION CERTIFICATION PLAN	
HOUSE TYPE: RANDALL II		DATE: JUNE, 2010	
DESIGN: JMC	DRAFT: JMC	PROJECT NO. 1950	DRAWING 1 OF 1
SCALE: 1" = 30'			



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PAVING SECTION
NOT TO SCALE

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John M. Carney 5/5/10
PLAN PREPARER
JOHN M. CARNEY FOR BENCHMARK ENGINEERING, INC.

APPROVED:
FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

COUNTY HEALTH OFFICER _____ DATE _____

Note - additional revisions done w/ 6/3/10 submitted

<p>BENCHMARK ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS ENGINEERING, INC.</p> <p>8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418 ELLCOTT CITY, MARYLAND 21043 PHONE: 410-465-6105 ▲ FAX: 410-465-6644 EMAIL: benchmrk@cais.com</p>	
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DESIGN: JMC	DRAFT: JMC

