



Howard County
Health Department

Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 12/6/12

ONSITE SEWAGE DISPOSAL SYSTEM

P 544418-A

INSTALLATION

APPROVAL DATE: 8/16/13

**PERMIT
CONSTRUCTION**

A

PROPERTY ADDRESS: 11303 Willow Ridge Lane

SUBDIVISION: Willow Ridge

LOT: 9

TAX ID: 03-594339

CONTRACTOR: Farm and Home Excavating

EMAIL: _____

CONTRACTOR ADDRESS: 901 Driver Road, Marriottsville, MD 21104

PHONE: 410-442-2139

PROPERTY OWNER: Aurora Havinder Singh and Kaur Kuljinder

EMAIL: _____

OWNER ADDRESS: 11303 Willow Ridge Lane

PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000

PUMP CHAMBER CAPACITY (GALLONS): _____

PUMP SIZE: _____

NUMBER OF BEDROOMS: 6

HOUSE SQ. FT. 7,105

APPLICATION RATE: 0.8

DISTRIBUTION SYSTEM: GRAVITY FED ☒

LOW PRESSURE DOSED ☐

TRENCHES:	LINEAR FEET REQUIRED: <u>300' - 310'</u>	INLET DEPTH: <u>3' ok</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8' ok</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>9</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>6' @ system</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	<p>Set septic tank per plan. Set distribution at SDA corner approx 30' beyond septic tank. Install 1 x 50', 1 x 70' and 2 x 85' trenches on contour.</p> <p><u>(490)</u> * set 3 x 45' over perc 611, 1 x 55' and 2 x 60' trenches over perc 614 * out of area.</p>	

ISSUED BY: Heidi Scott

ISSUE DATE: _____

EXPIRATION DATE: 12/6/13

NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION

NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING

NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

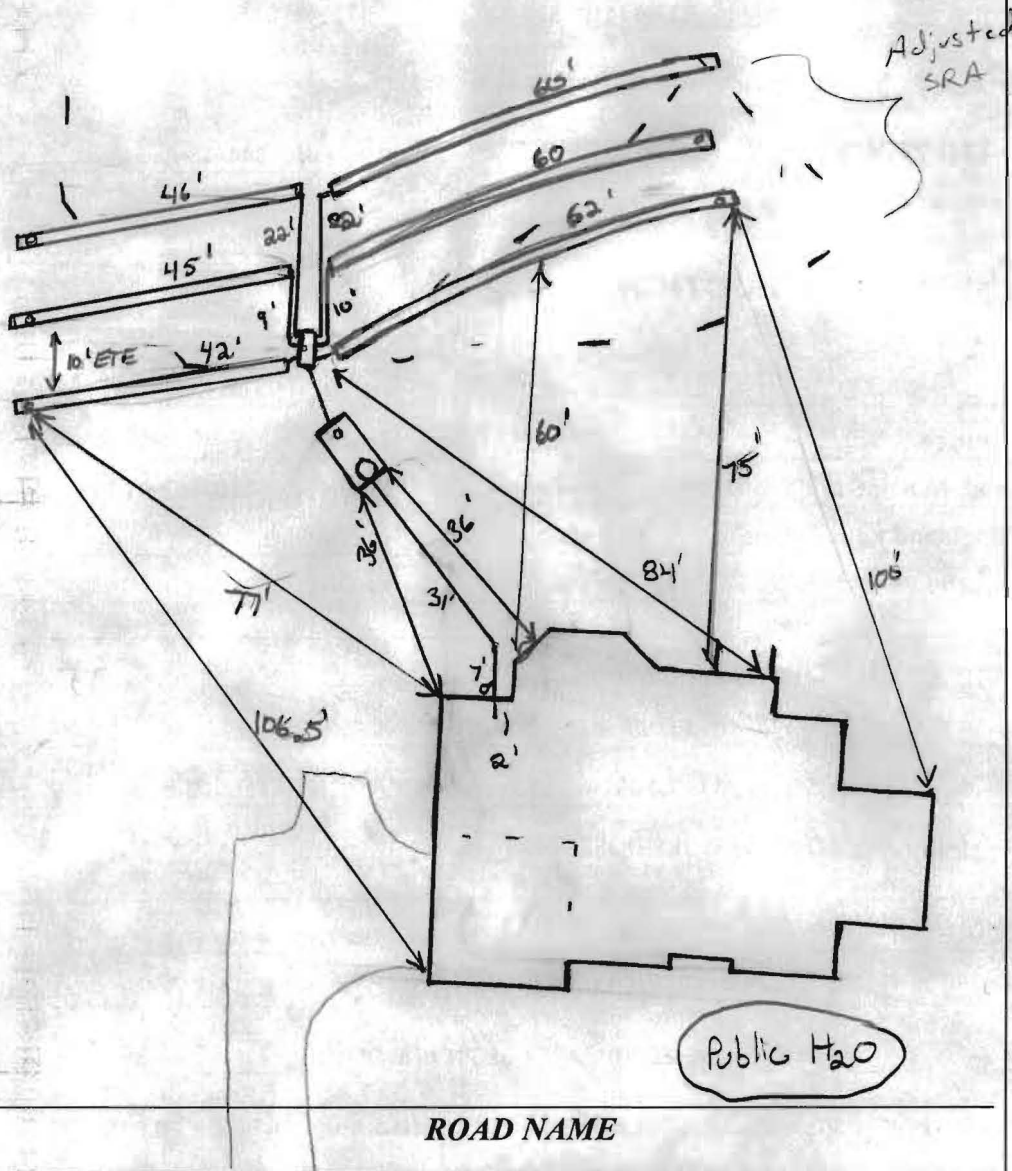
NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE
SUCCESSFUL OPERATION OF ANY SYSTEM.**

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
2'	3	8'
NUMBER OF TRENCHES		6
TOTAL LENGTH		315'
ABSORPTION AREA		630' ± SW
DISTRIBUTION BOX LEVEL		Leveler's
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		Yes

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	Yes
MANUFACTURER	Babylon
CAPACITY	2000 GAL
SEAM LOC	Top
TANK LID DEPTH	2.5'
BAFFLES	Yes
BAFFLE FILTER	—
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	—
SLOTTED	Yes
DATE ON LID	N/A
PUMP/SEPTIC TANK LEVEL	N/A
MANUFACTURER	—
CAPACITY	— GAL
SEAM LOC	—
TANK LID DEPTH	—
BAFFLES	—
BAFFLE FILTER	—
MANHOLE LOC	—
6" PORT LOC	—
WATERTIGHT TEST	—
SLOTTED	—
DATE ON LID	—

PRE-CONSTRUCTION:

7/29/13 Went over area some. Told contractor to inform builder/owner SRA will need to be adjusted for system sized @ 6 br. Set S.T. slightly north as shown on bp plan. Need to reuse spec's (KW)

INSTALLATION:

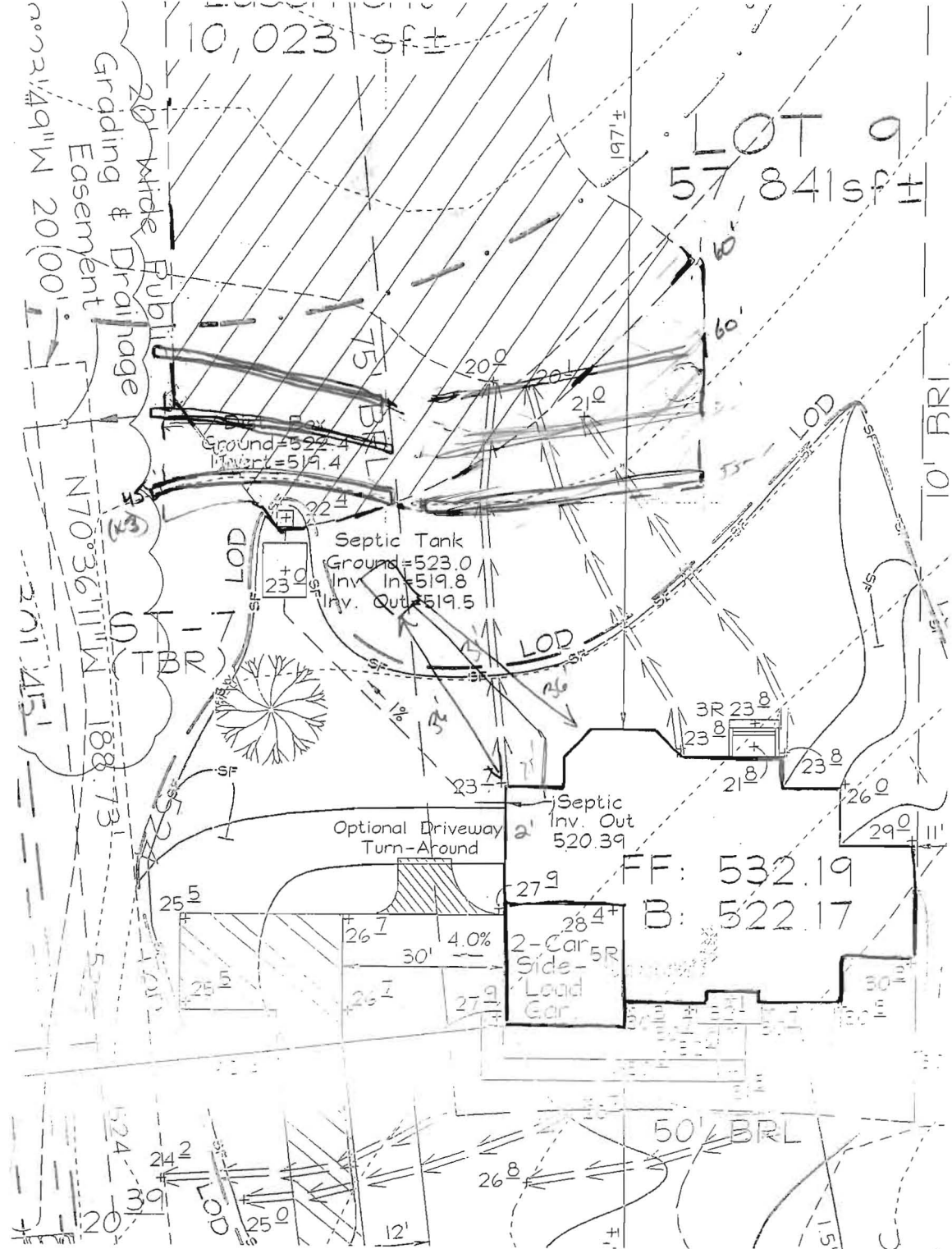
7/31/13 S.T. set. SRA per w/ 1% fall from house. No one on-site. (KW)
 8/6/13 Contour sheet. Adjusted SRA slightly to make room for trenches of a 6 BR house. Trench spec's adjusted. Install 3x45' trenches running south and 3x60' trenches on contour running north. Top 2x60' trench will be out of SRA. Homeowner and builder aware of this adjustment (KW)
 8/12/13 Top 2x60' trenches installed. Deep clamp but good seal below 6.5'. OK to continue (KW)
 8/16/13 System complete, OK to cover all work

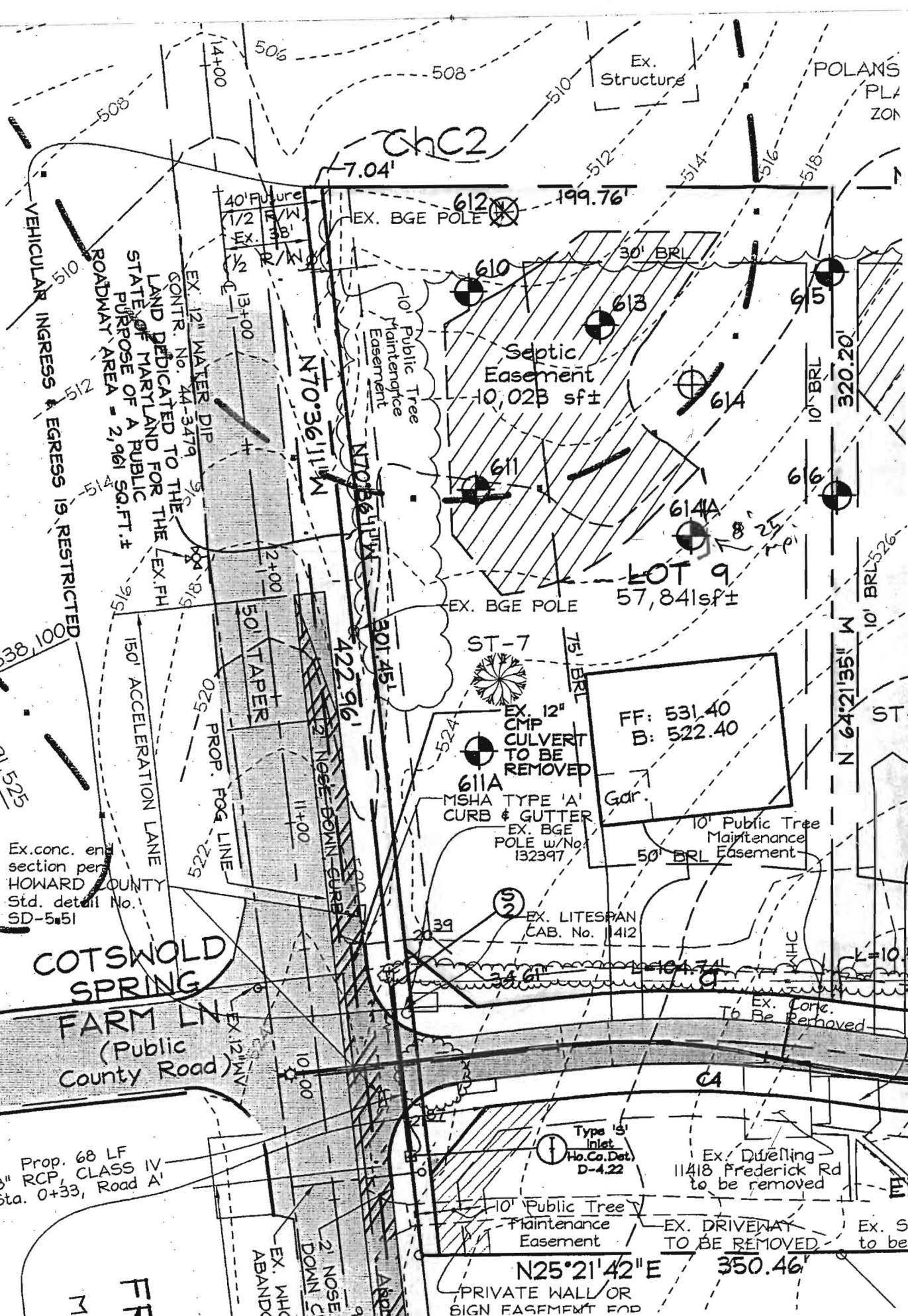
FINAL INSPECTOR

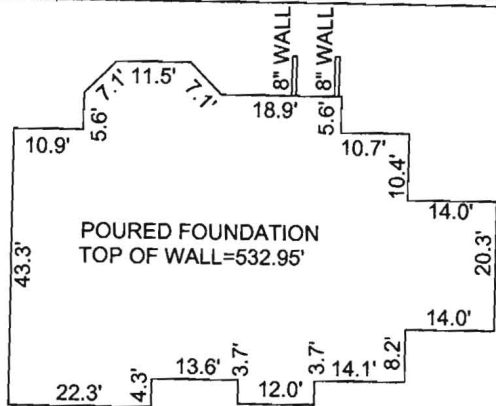
J. Wolf

DATE OF APPROVAL

8/16/13





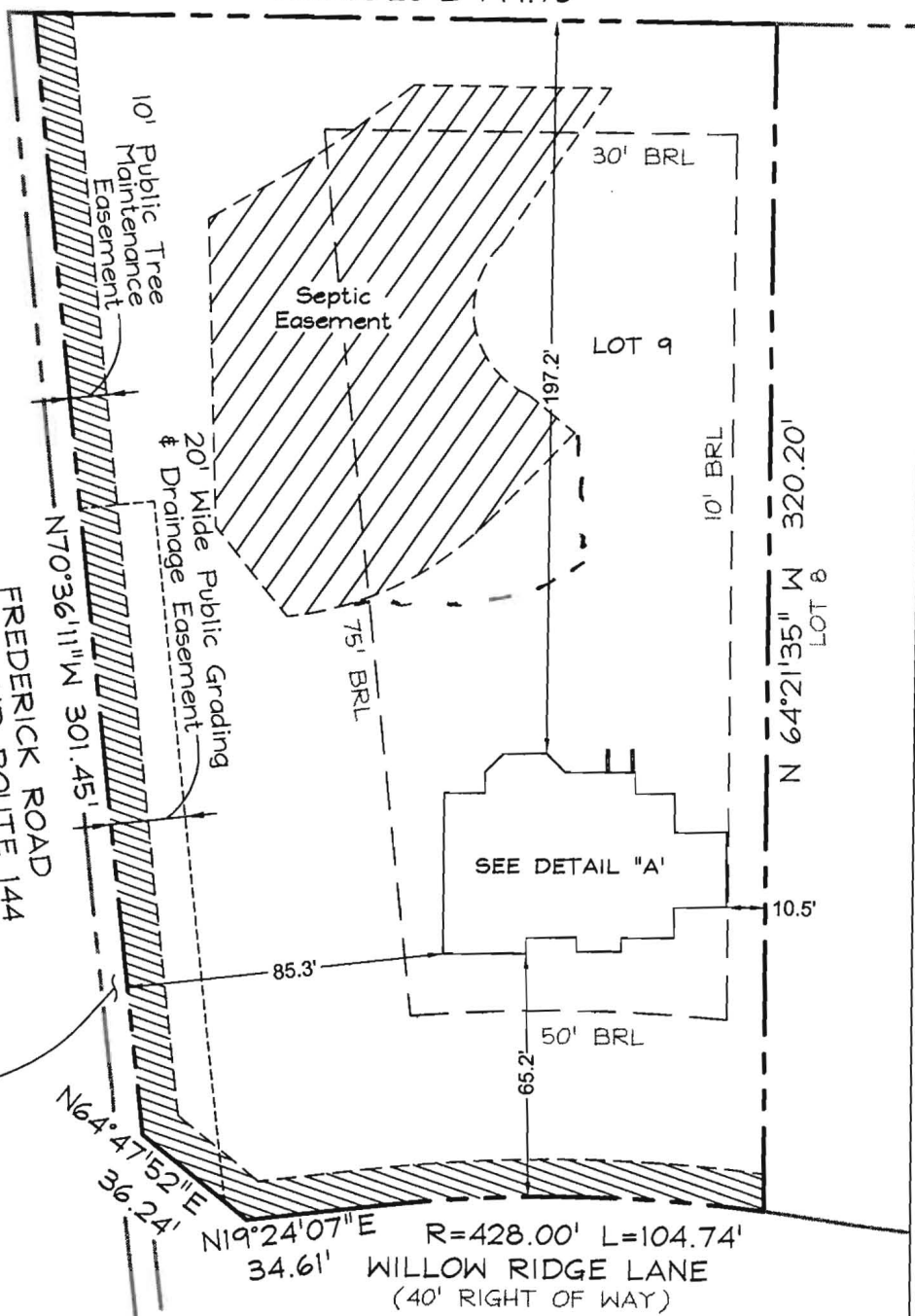


DETAIL "A"
SCALE: 1" = 30'

Land dedicated to the
State of Maryland for the
purposes of a public road
2961 sq. ft.

7/24/13
Wall Check OK
-KJB

FREDERICK ROAD
MARYLAND ROUTE 144
(66' RIGHT OF WAY)



DIMENSIONS FROM FOUNDATION WALL TO PROPERTY LINE ARE +/-0.1'.
ADDRESS No.: 11303 Willow Ridge Lane Lot 9 WILLOW RIDGE
TOP OF WALL ELEV. 532.95'

THIS LOCATION DRAWING IS OF BENEFIT TO THE CONSUMER ONLY
INSOFAR AS IT IS REQUIRED BY A LENDER OR A TITLE INSURANCE
COMPANY OR ITS AGENT IN CONNECTION WITH CONTEMPLATED
TRANSFER, FINANCING OR REFINANCING.

THIS LOCATION DRAWING IS NOT TO BE RELIED UPON FOR THE ES-
TABLISHMENT OR LOCATION OF FENCES, GARAGES, BUILDINGS, OR
OTHER EXISTING OR FUTURE IMPROVEMENTS.

THIS LOCATION DRAWING DOES NOT PROVIDE FOR THE ACCURATE
IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH
IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE
OR SECURING FINANCING OR REFINANCING.

FSH Associates

Engineers Planners Surveyors

6339 Howard Lane, Elkridge, MD 21075

Tel: 410-567-5200 Fax: 410-796-1562

E-mail: FSHERI.COM

Professional Certification. I hereby certify that these documents were
prepared by me or under my responsible charge, and that I am a duly
licensed property line surveyor under the laws of the State of Maryland,
License No. 135, Expiration Date: April 12, 2014.

WALL CHECK

FOUNDATION	Date: 04/10/13
FINAL	Date:
DRAWN BY:	KJB
SCALE:	1"=50'
W.O. No.:	3033



LOT 9

WILLOW RIDGE

#11303 WILLOW RIDGE LANE

MDR PLAT No. 22031

TAX MAP 16 GRID 15

PARCEL NOS. 89, 91, P/O 183 & 201

3rd ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

IN CASE OF CHEMICAL EMERGENCY CALL **CHEM-TREC** 1-800-424-9300

We are an Equal Opportunity Employer

SAVAGE STONE, LLC

SAVAGE, MARYLAND

Mailing Address: P.O. Box 850, Laurel, Maryland 20725

TRUCKER'S COPY

BILLING INQUIRIES

301-953-7650

410-792-7234

TICKET #00713063

STATION SS

DATE 08/13/13 TIME 07:40:45

DISPATCH / SALES

301-953-8973

410-792-3753

CUSTOMER FARHOM
FARM AND HOME EXCAVATING
901 DRIVER ROAD
MARRIOTTSTVILLE, MD 21104

JOB VARLOC : VARIOUS LOCATIONS
P.O. # PROJECT #: LOT 9 WILLOW RIDGE

TRUCK FH5124 LICENSE 3 AXLES
DRIVER: FARM AND HOME EXCAVATING

				Loads	Tons
GROSS	SCALE B	68920 lb	DAILY	1	21.01
TARE	IN (STORED)	26900 lb	TOTAL	26	532.28
NET		42020 lb	TIME IN 07:40:45		TIME OUT 07:40:45
NET		21.01 t			

MAT'L 0022 : MD #2 STONE
HAUL ZONE 0000

WEIGHMASTER

Stacey Hawke

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SAFETY FIRST! HAVE A GREAT DAY! PLEASE CHECK YOUR TICKET!

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SAVAGE STONE, LLC

SAVAGE, MARYLAND

Mailing Address: P.O. Box 850, Laurel, Maryland 20725

DISPATCH / SALES

301-953-8973

410-792-3753

TRUCKER'S COPY

BILLING INQUIRIES

301-953-7650

410-792-7234

TICKET #00712858

STATION SS

DATE 08/12/13 TIME 13:16:22

CUSTOMER FARHOM

FARM AND HOME EXCAVATING

901 DRIVER ROAD

MARRIOTTSTVILLE, MD 21104

JOB VARLOC : VARIOUS LOCATIONS

P.O. # PROJECT #: LOT 9 WILLOW RIDGE

TRUCK FH5124 LICENSE

3 AXLES

DRIVER: FARM AND HOME EXCAVATING

GROSS	SCALE B	69240 lb
TARE	IN (STORED)	26900 lb
NET		42340 lb
NET		21.17 t

	Loads	Tons
DAILY	3	62.92
TOTAL	5	105.85
TIME IN 13:16:22		TIME OUT 13:16:22

MAT'L 0029 : WASHED #2 STONE

HAUL ZONE 0000

WEIGHMASTER

Stacey Hawke

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SAVAGE STONE, LLC

SAVAGE, MARYLAND

Mailing Address: P.O. Box 850, Laurel, Maryland 20725

DISPATCH / SALES

301-953-8973

410-792-3753

TRUCKER'S COPY

BILLING INQUIRIES

301-953-7650

410-792-7234

TICKET #00712573

STATION SS

DATE 08/12/13 TIME 08:47:30

CUSTOMER FARHOM
FARM AND HOME EXCAVATING
901 DRIVER ROAD
MARRIOTTSVILLE, MD 21104

JOB VARLOC : VARIOUS LOCATIONS
P.O. # PROJECT #: LOT 9 WILLOW RIDGE

TRUCK FH5124 LICENSE 3 AXLES
DRIVER: FARM AND HOME EXCAVATING

GROSS	SCALE B	68860 lb
TARE	IN (STORED)	26900 lb
NET		41960 lb
NET		20.98 t

	Loads	Tons
DAILY	2	41.75
TOTAL	4	84.68
TIME IN 08:47:30		TIME OUT 08:47:30

MAT'L 0029 : WASHED #2 STONE
HAUL ZONE 0000

WEIGHMASTER

Stacey Hawke

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DISPATCH / SALES
301-953-8973
410-792-3753

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SAVAGE STONE, LLC

SAVAGE, MARYLAND

Mailing Address: P.O. Box 850, Laurel, Maryland 20725

TRUCKER'S COPY

BILLING INQUIRIES
301-953-7650
410-792-7234

TICKET 168712503

STATION SS

DATE 08/12/13 TIME 07:29:25

CUSTOMER FARMON
FARM AND HOME EXCAVATING
901 DRIVER ROAD
MARRIOTTSTVILLE, MD 21104

JOB VARLOC : VARIOUS LOCATIONS
P.O. # PROJECT #: LOT 9 WILLOW RIDGE

TRUCK FH5124 LICENSE 3 AXLES
DRIVER: FARM AND HOME EXCAVATING

				Loads	Tons
GROSS		SCALE B	68440 lb	DAILY 1	20.77
TARE	IN	(STORED)	26900 lb	TOTAL 3	63.70
NET			41540 lb	TIME IN 07:29:25	TIME OUT 07:29:25
NET			20.77 t		

MAT'L 0029 : WASHED #2 STONE
HAUL ZONE 0000

WEIGHMASTER

Gail Harrison

RECEIVED BY

John Dugan

SAFETY FIRST! HAVE A GREAT DAY! PLEASE CHECK YOUR TICKET!

We are an Equal Opportunity Employer

SAVAGE STONE, LLC

SAVAGE, MARYLAND

Mailing Address: P.O. Box 850, Laurel, Maryland 20725

DISPATCH / SALES

301-953-8973

410-792-3753

TRUCKER'S COPY

BILLING INQUIRIES

301-953-7650

410-792-7234

TICKET #00711471

STATION SS

DATE 08/07/13 TIME 14:02:44

CUSTOMER FARHOM

FARM AND HOME EXCAVATING
901 DRIVER ROAD
MARRIOTTSTVILLE, MD 21104

JOB VARLOC : VARIOUS LOCATIONS

P.O. # PROJECT #: LOT 9 WILLOW RIDGE

TRUCK FH5124 LICENSE

3 AXLES

DRIVER: FARM AND HOME EXCAVATING

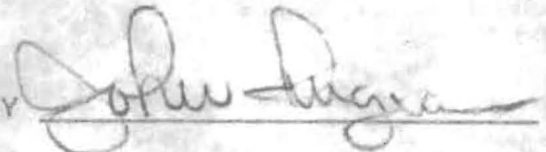
			Loads	Tons
GROSS	SCALE B	69720 lb	DAILY 2	42.93
TARE	IN (STORED)	26900 lb	TOTAL 2	42.93
NET		42820 lb	TIME IN 14:02:44	TIME OUT 14:02:44
NET		21.41 t		

MAT'L 0029 : WASHED #2 STONE
HAUL ZONE 0000

WEIGHMASTER

Stacey Hawke

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We are an Equal Opportunity Employer

SAVAGE STONE, LLC

SAVAGE, MARYLAND

Mailing Address: P.O. Box 850, Laurel, Maryland 20725

DISPATCH / SALES

301-953-8973

410-792-3753

TRUCKER'S COPY

BILLING INQUIRIES

301-953-7650

410-792-7234

TICKET #00711403

STATION SS

DATE 08/07/13 TIME 12:23:14

CUSTOMER FARMOM

FARM AND HOME EXCAVATING

901 DRIVER ROAD

MARRIOTTSTVILLE, MD 21104

JOB VARLOC : VARIOUS LOCATIONS

P.O. # PROJECT #: LOT 9 WILLOW RIDGE

TRUCK FH5124 LICENSE 3 AXLES
DRIVER: FARM AND HOME EXCAVATING

				Loads	Tons
GROSS	SCALE B	69940 lb	DAILY	1	21.52
TARE	IN (STORED)	26900 lb	TOTAL	1	21.52
NET		43040 lb	TIME IN 12:23:14		TIME OUT 12:23:14
NET		21.52 t			

MAT'L 0029 : WASHED #2 STONE

HAUL ZONE 0000

WEIGHMASTER

Gail Harrison

RECEIVED BY

SAFETY FIRST! HAVE A GREAT DAY! PLEASE CHECK YOUR TICKET!

Level
ders
long

30' BRL

Septic
Easement
10,023 sf±

B13000381

Approved Septic System Plan
Howard County Health Department

Signature [Signature] Date 2/27/13

LOT 9
57,841 sf±

320.20'

Field Adjustment
of Septic Area

Per. Hike
~25 mi @
8'

Dist. Box
Ground=522.4
Invert=519.4

Septic Tank
Ground=523.0
Inv. In=519.8
Inv. Out=519.5

LOD

10' BRL

64°21'35" W

Optional Driveway
Turn-Around

Septic
Inv. Out
520.39

3R 23.8
23.8

Handwritten notes and signature at bottom right.

Kevin

Signed Field Adj.

from homeowner

Lot #9 Willow Ridge

Thats Bill

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone (42 lbs/1000 s.f.) And 600 lbs. / acre (20.7 lbs./1000s.f.) of 10-20-20 before seeding. Harrow or disc into upper 3 in. Of soil.

SEEDING: Apply a mixture of Turf Type Tall Fescue (80%) and Hard Fescue (20%) in accordance with seeding dates and rates shown in the Permanent Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below and apply permanent seeding when within proper seeding dates.

MULCHING: Immediately following seeding, apply a uniform 1-2 in. Deep layer of in-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 Tons/acre if a mulch anchoring tool is used). Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. Of wood fiber/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agra-Tack), DCA-70, Petrosel and other approved equals may be used at rates recommended by the manufacturers.

Permanent Seeding Summary									
Seed Mixture (Hardiness Zone 6a and 6b)					Fertilizer Rate		Lime Rate		
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P205	K20		
10	Tall Fescue (80%) Hard Fescue (20%)	100 30	5/1-5/15 8/15-11/15	0.5 in.	40lb/ac (2.0lb/1000sf)	75lb/ac (4lb/1000sf)	15lb/ac (.4lb/1000sf)	2tons/ac (100lb/500sf)	

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.

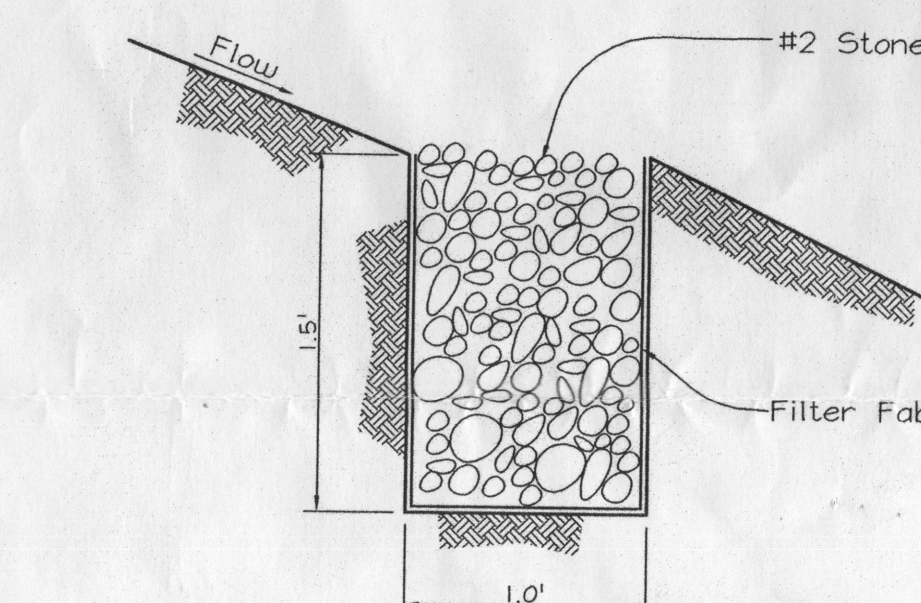
SOIL AMENDMENTS: In lieu of soil test recommendations, use the following schedule: Apply 2 tons per acre dolomitic limestone (42 lbs/1000 s.f.) And 600 lbs. / acre (15 lbs./1000s.f.) of 10-10-10 before seeding. Harrow or disc into upper 3 in. Of soil.

SEEDING: Apply the Maryland State Highway approved seed mixture of Barley or Rye plus Foxtail Millet in accordance with seeding dates and rates shown in the Temporary Seeding Summary shown on this sheet. For stabilization outside of the seeding dates, apply straw mulch at rates and methods specified below.

MULCHING: Immediately following seeding, apply a uniform 1-2 in. Deep layer of un-rotted small grain straw at a rate of 2 tons/acre. (Apply 2.5 Tons/acre if a mulch anchoring tool is used). Straw may be anchored with wood cellulose fiber at a rate of 750 lbs. / acre mixed at a ratio of 50 lbs. Of wood fiber/ 100 gal. of water. Synthetic liquid binders such as Terra Tax II, Acrylic DLR (Agra-Tack), DCA-70, Petrosel and other approved equals may be used at rates recommended by the manufacturers.

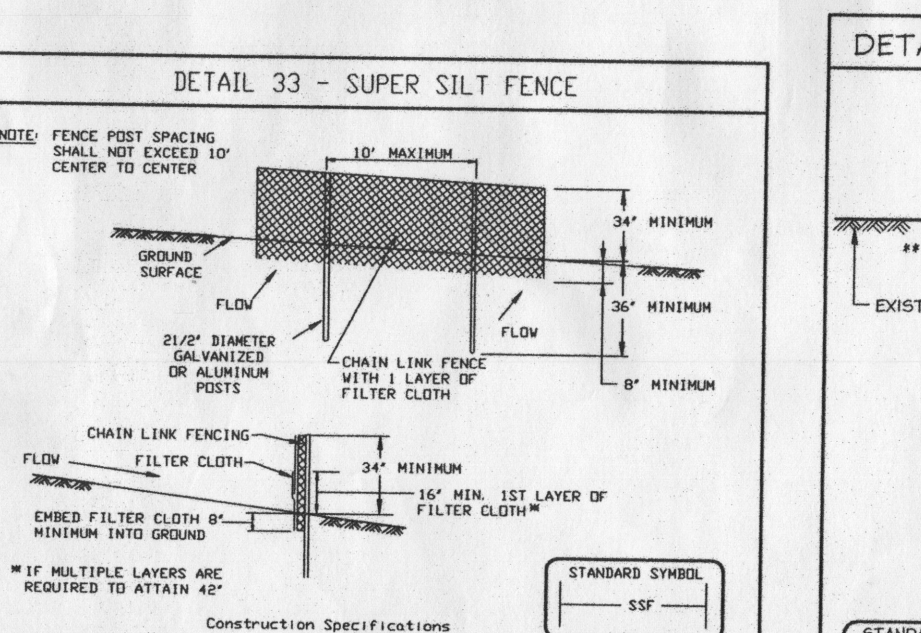
REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

Temporary Seeding Summary									
Seed Mixture (Hardiness Zone 6a and 7a)					Fertilizer Rate		Lime Rate		
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P205	K20		
2	Barley or Rye plus Foxtail Millet	150 lbs (3 lbs/1000sf)	2/1-11/30 (7a) 3/15-10/31 (6a)	1/4 in. 1/2 in.	600 lb/ac (15lb/1000sf)	2 tons/ac (100lb/500sf)			



TYPICAL LEVEL SPREADER

NOT TO SCALE
See plan for level spreader lengths



Construction Specifications

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway details for Chain Link Fencing. The specification for a 6" fence shall be used, substituting 42" fabric and 6" length posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and true rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth shall be fastened securely to the chain link fence with wire ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 8" into the ground.
- When the sections of filter cloth join each other, they shall be overlapped by 6" and folded.
- Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSHT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSHT 509
Flow Rate	0.3 gal/ft/min (max.)	Test: MSHT 322
Filtering Efficiency	75% (min.)	Test: MSHT 322

U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

ENGINEERS CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Zacharia Y. Fisch
SIGNATURE OF ENGINEER
ZACHARIA Y. FISCH, P.E.
12/29/12
DATE

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
CHB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
GLC2	Glencoe loam, 8 to 15 percent slopes, moderately eroded	B

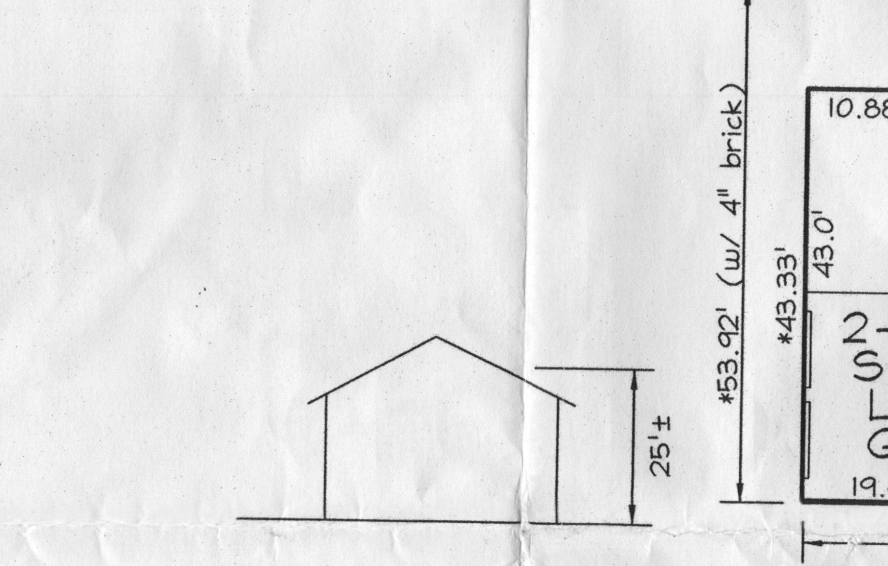
SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permit Sediment Control Division prior to the start of any construction (410-313-1855).
- All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL and revisions thereto.
- Following initial soil disturbance or redisturbance, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1; (b) 14 days for all other disturbed or graded areas on the project site.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. I, Chapter 7, HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding, soil, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:

Total Area	1.328 Acres
Area Disturbed	0.465 Acres
Area to be roofed or paved	0.114 Acres
Area to be vegetatively stabilized	0.351 Acres
Total Cut	500 CY±
Total Fill	500 CY±
Offsite waste/borrow area location	

- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Trenches for the construction of utilities is limited to three pipe lengths whichever is shorter.
- Earthwork quantities are solely for the purpose of calculating fees.
- Contractor to verify all quantities prior to the start of construction.
- To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

Temporary Seeding Summary									
Seed Mixture (Hardiness Zone 6a and 7a)					Fertilizer Rate		Lime Rate		
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P205	K20		
2	Barley or Rye plus Foxtail Millet	150 lbs (3 lbs/1000sf)	2/1-11/30 (7a) 3/15-10/31 (6a)	1/4 in. 1/2 in.	600 lb/ac (15lb/1000sf)	2 tons/ac (100lb/500sf)			



DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE

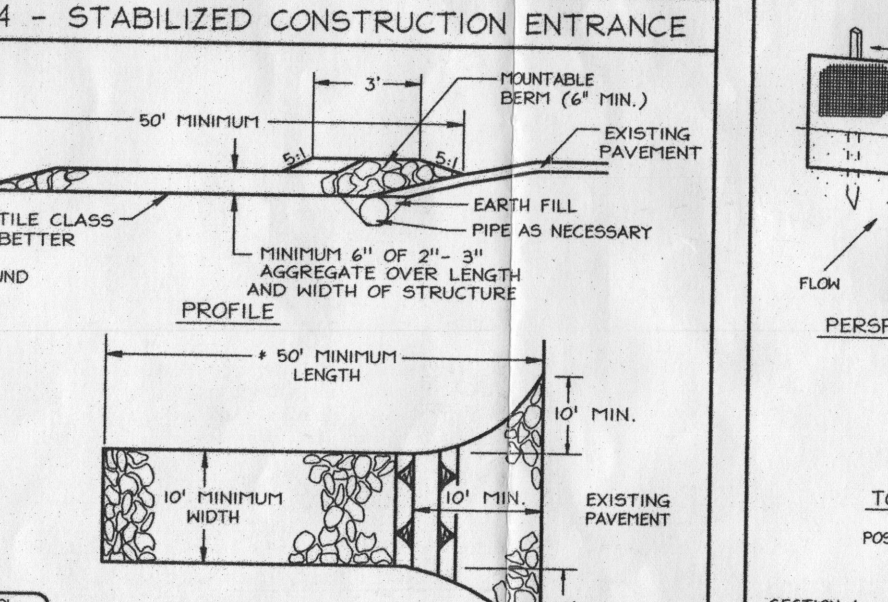
* Denotes dimensions including 4" brick.

SCHEMATIC ELEVATION

NOT TO SCALE

HOUSE PLAN

SCALE: 1" = 20'



Construction Specifications

- Length - minimum of 50' (+ 30' for a single residence lot).
- Width - 10" minimum, should be flared at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. * The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or from the stabilized construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe entrances shall be installed through the stabilized construction entrance with a minimum 12" slope and a minimum of 6" of stone over the pipe. Pipe has to be no drainage to convey, a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

Tensile Strength	50 lbs/in (min.)	Test: MSHT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSHT 509
Flow Rate	0.3 gal/ft/min (max.)	Test: MSHT 322
Filtering Efficiency	75% (min.)	Test: MSHT 322

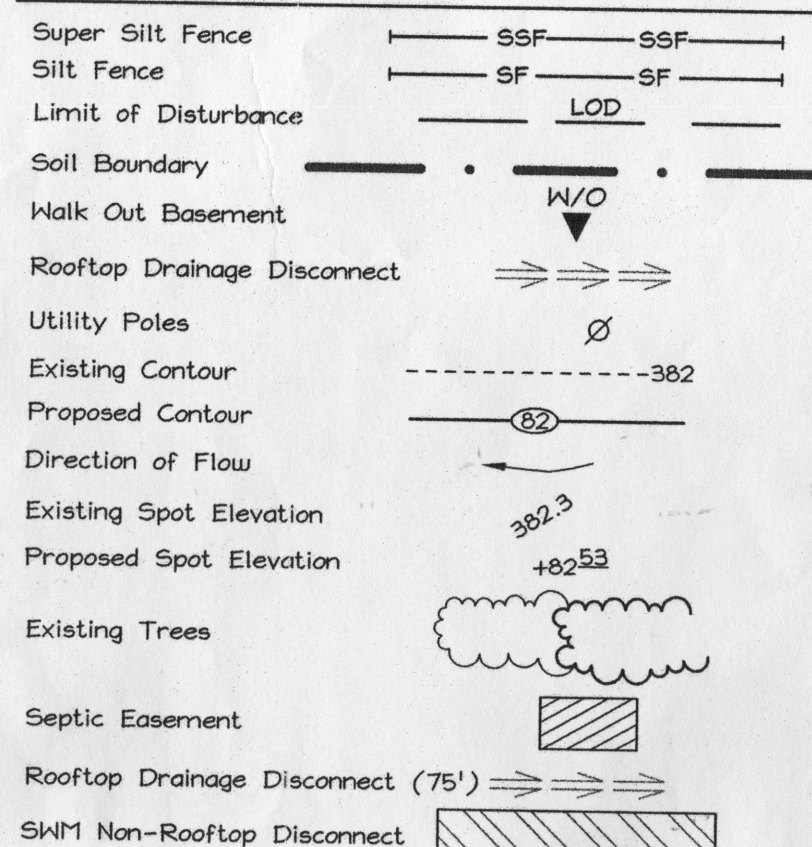
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

DEVELOPER'S CERTIFICATE

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL. PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT." I ALSO CONSERVATION DISTRICT.

John P. Roberts
SIGNATURE OF DEVELOPER
12/29/12
DATE

LEGEND

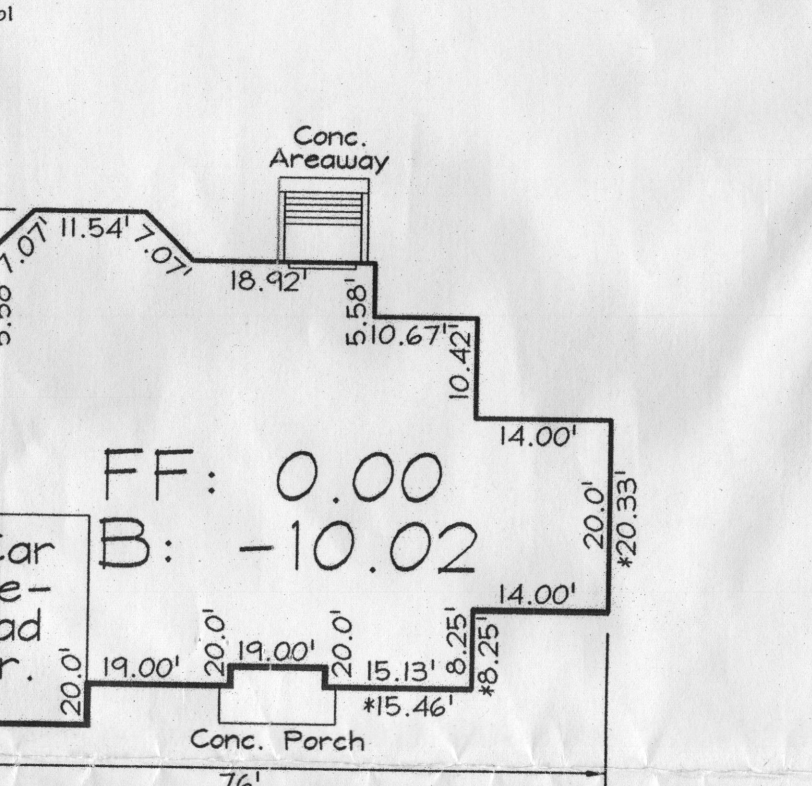


LEGEND

Scale: 1" = 20'

PLAN

SCALE: 1" = 20'



PLAN

SCALE: 1" = 20'

GENERAL NOTES

- This property is zoned "RR-DEO" per the 02/02/04 Comprehensive Zoning Plan and the Camp Lite Zoning Regulations Amendments effective 07/28/06.
- Total area of property = 1.328 Ac±
- Public water and private septic will serve this lot.
- On-site topography and existing utilities based on a Field Run Topographic Survey prepared by FSH Associates in July, 2003 with two foot contours.
- A septic tank will not be permitted on site.
- Per F-208-050 approved Final plans, CPV is not required. Rev and WQV are provided by FSH Associates and Non-Rooflap disconnects.
- Spill from septic line trench excavation to be placed on the uphill side of the excavation.
- Silt fence is to be changed to super silt fence at the direction of the Sediment Control Inspector.

SEQUENCE OF CONSTRUCTION

- Obtain grading permit.
- Notify Howard County Department of Inspections, License and Permits at (410) 313-1880 at least 48 hours before starting any work.
- Install Stabilized Construction Entrance and Silt Fence.
- After receiving permission from the sediment control inspector, rough grade site and begin building construction.
- Construct driveway and finish building construction.
- Fine grade and permanently stabilize site.
- Upon stabilization of all disturbed areas and with the permission of the Sediment Control Inspector, remove all sediment control measures and stabilize any remaining disturbed area.
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BUILDER

CLASSIC HOMES
50 W. Edmondston Drive, Suite 405
Rockville, Maryland 20852
301.256.4110

PLOT PLAN

Rev 5

WILLOW RIDGE

LOT 9

Plat #22030-22033

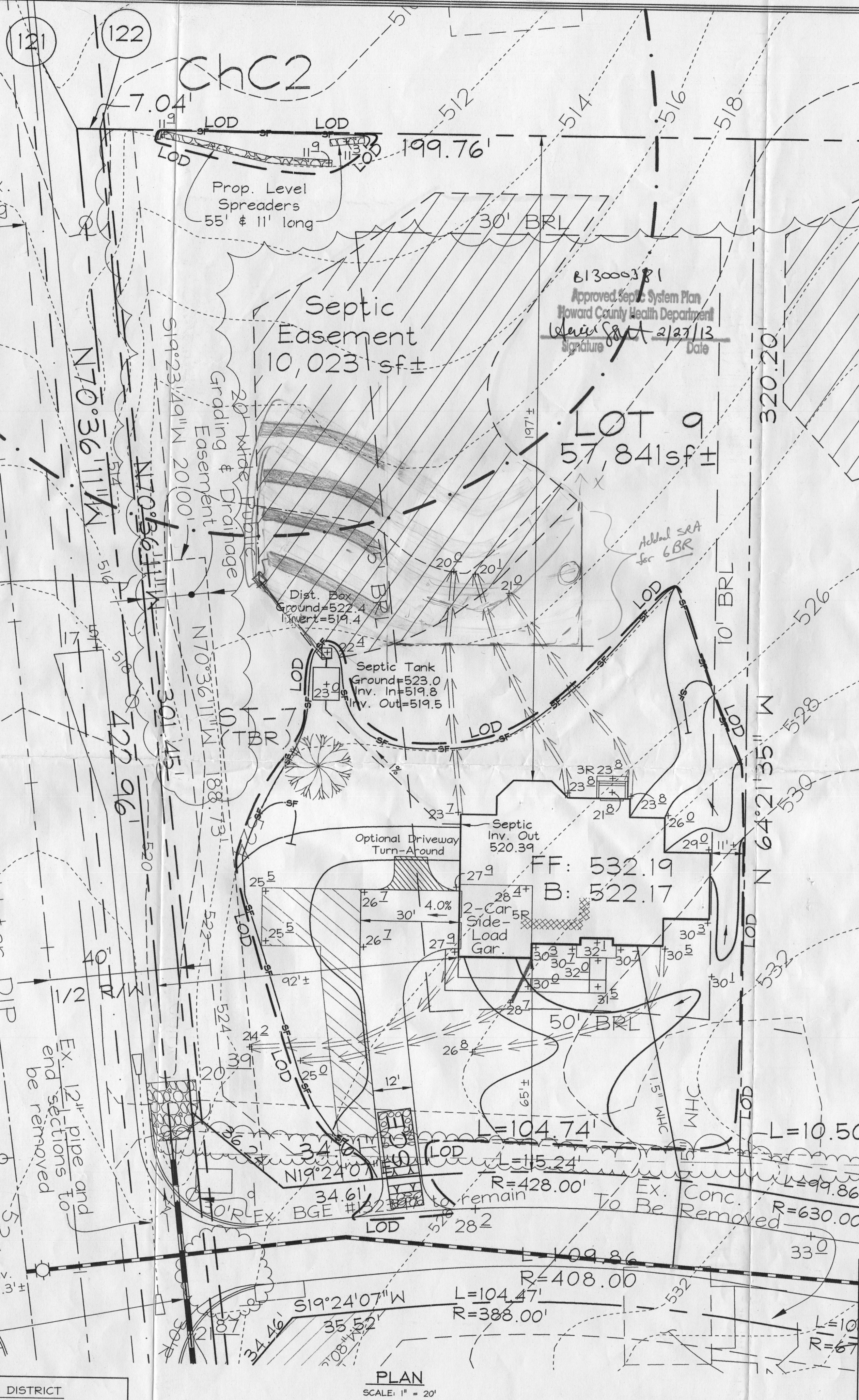
TAX MAP 16 GRID 15
3RD ELECTION DISTRICT

PARCELS 89, 91 & 201
HOWARD COUNTY, MARYLAND

DESIGN BY: CRH2
DRAWN BY: CRH2
CHECKED BY: ZYF
SCALE: 1" = 20'
DATE: Dec. 28, 2012
W.O. No.: 3093
SHEET No.: 1 OF 1

PROFESSIONAL CERTIFICATION
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer in the State of Maryland, License No. #22418, Expiration Date: 07/29/2013.

Zacharia Y. Fisch
SIGNATURE OF ENGINEER
ZACHARIA Y. FISCH, P.E.
12/29/12
DATE



PLAN

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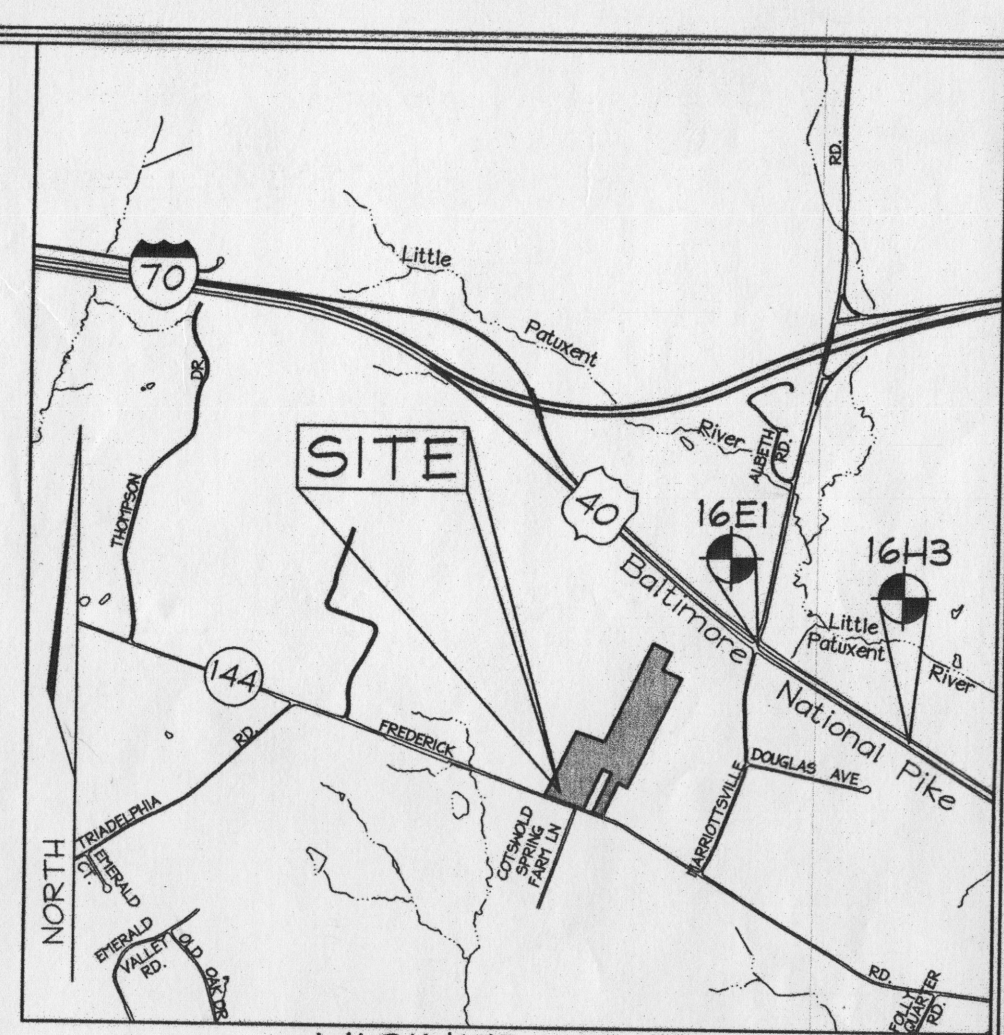
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Zacharia Y. Fisch
SIGNATURE OF ENGINEER
ZACHARIA Y. FISCH, P.E.
12/29/12
DATE



VICINITY MAP

SCALE: 1"=2000'
ADC MAP 10 K5

GEODETIC CONTROL STATIONS

Coordinates based on NAD'83, Maryland coordinate system as projected by Howard County geodetic control stations no. 16E1 and no. 16H3 denotes approximate location (see vicinity map).

Sta. 16E1 N 549,250.9638 E 1,340,192.7010 El.: 463.893
Sta. 16H3 N 542,048.0425 E 1,341,523.9677 El.: 469.712

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