

LAYOUT 10/9/12 INSP 4 _____
 INSP 2 _____ INSP 5 _____
 INSP 3 _____ INSP 6 _____

ISSUE DATE: 9/25/2012
 APPROVAL DATE: 1/7/13

PERMIT

P 538875
 A _____

Tax ID # 04-375076
ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH

Cumberland Company Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS: _____ PHONE NUMBER: _____

SUBDIVISION: Florence Vista LOT NUMBER: 4

ADDRESS: 2925 Florence Road PROPERTY OWNER: Zhangshi Yin

SEPTIC TANK CAPACITY (GALLONS): 1500 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): ~~1000~~ 1250 COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4 APPLICATION RATE: 1.2

SQUARE FOOTAGE OF HOUSE: 2,100 * Ejector pit ok'd by homeowner.

LINEAR FEET OF TRENCH REQUIRED: ~~103~~ 140' 2' wide 3-6.5' 2x70' ~63 ton

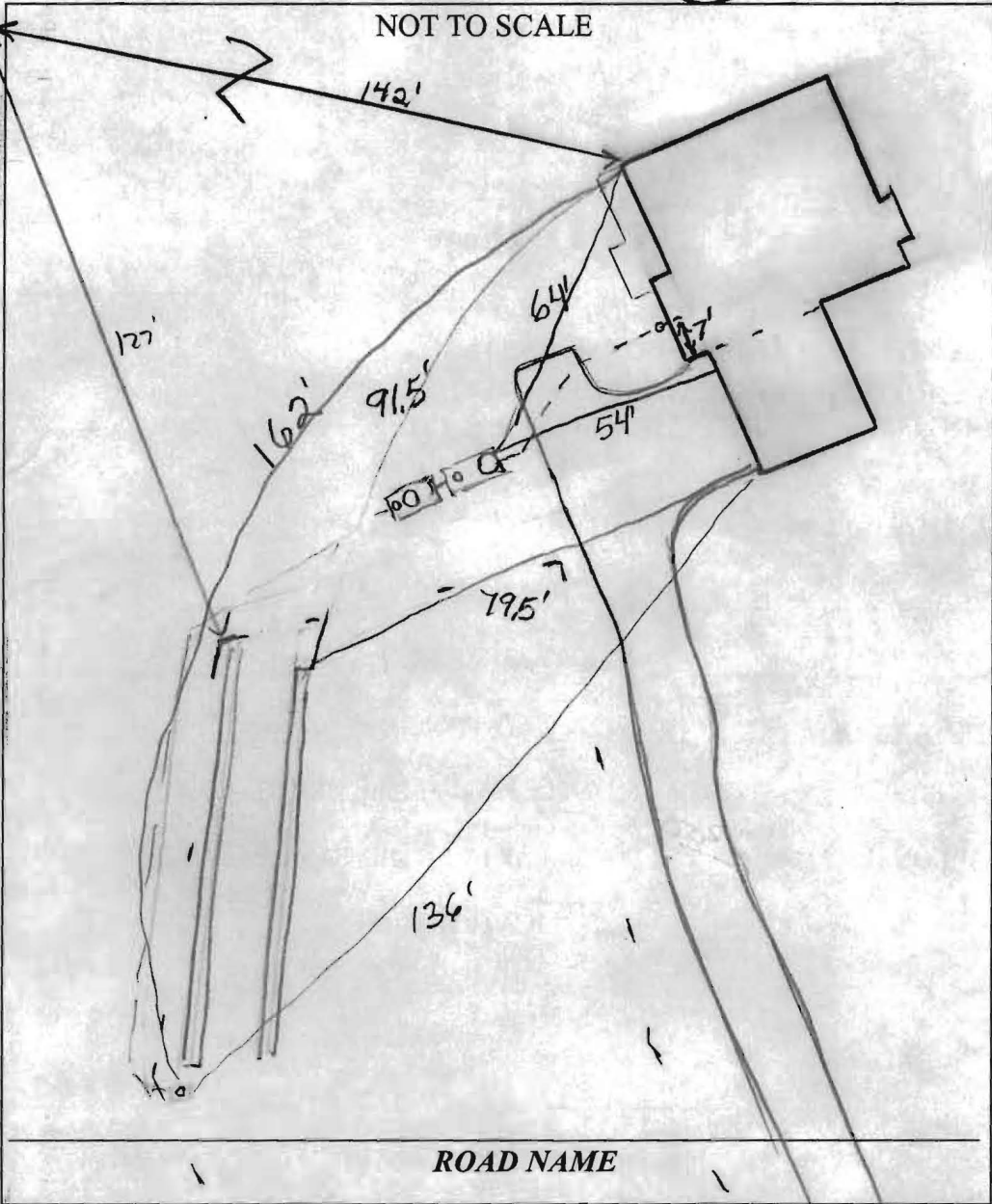
TRENCHES:	Trenches to be 3.0 feet wide. Inlet is at 2.5 feet below original grade with 2.5 feet of stone below the distribution pipe. Bottom maximum depth is 5.0 feet below original grade. Effective sidewall begins at 3.0 feet below original grade. Maintain at least 9.0 feet of spacing between trenches. ~52 ton
LOCATION:	Set septic tank per plan. Set distribution box at top corner of septic easement. Install 1 x 100' trench on contour. Basement will not sewer by gravity.
NOTES:	Do not order the septic tank until after layout inspection and Sanitarian approval. Stake easement corners. Call for layout inspection. Mark utilities. Gravel tickets must be available for Environmental Sanitarians. Stone must be approved by the Howard County Health Department. A written variance request is required for tanks deeper than 3 feet. A traffic bearing lid is required for tanks deeper than 4 feet.

PLANS APPROVED: Heidi Scott DATE: 9/4/12

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NEITHER THE HOWARD COUNTY COUNCIL OR 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 FOR INSPECTION OF SEPTIC SYSTEM

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
2'	3'	
NUMBER OF TRENCHES		2
TOTAL LENGTH _____		
ABSORPTION AREA _____		
DISTRIBUTION BOX LEVEL _____		
DISTRIBUTION BOX BAFFLE _____		
DISTRIBUTION BOX PORT <u>Yes</u>		

SEPTIC TANK DATA ?

SEPTIC TANK 1 LEVEL _____ ?

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH 2'

BAFFLES Yes

BAFFLE FILTER No

MANHOLE LOC Front

6" PORT LOC Rear

WATERTIGHT TEST No

SLOTTED _____

DATE ON LID _____

PUMP/SEPTIC TANK LEVEL _____ ?

MANUFACTURER _____

CAPACITY _____ GAL

SEAM LOC _____

TANK LID DEPTH 3'

BAFFLES _____

BAFFLE FILTER No

MANHOLE LOC Middle

6" PORT LOC Rear

WATERTIGHT TEST No

SLOTTED _____

DATE ON LID _____

PRE-CONSTRUCTION:

10/9/12 Tanks are to be set in front of house towards SRA. Maintain no more than 3' of cover on tanks. set D box @ top corner of SRA. Run 2x70' trenches on water back towards house. Ejector pit required in house. spec checked on permit (initials)

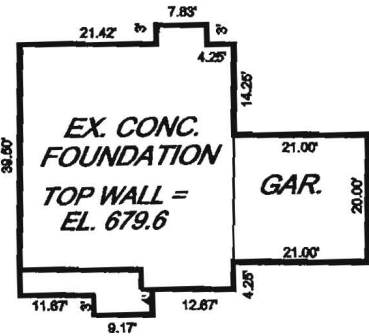
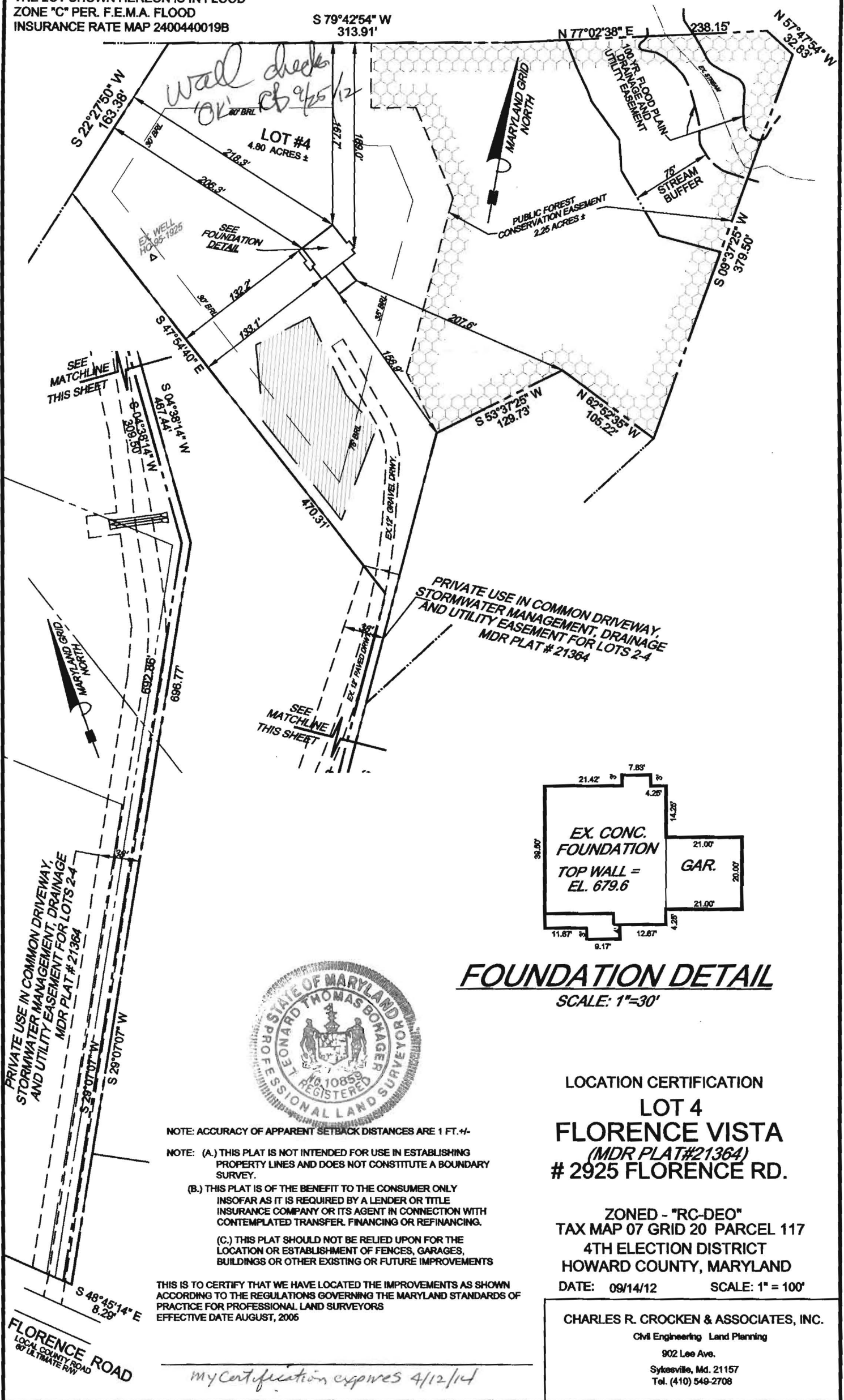
INSTALLATION: 1/19/2012

System covered by contractor. He thought it had already been inspected. Got what measurements I could. Need pump and alarm test. (initials) 1/7/13 Pump test ok. Alarm not set on dedicated circuit. Alarm does function properly.

FINAL INSPECTOR H. Valf DATE OF APPROVAL 1/7/13

THE LOT SHOWN HEREON IS IN FLOOD
 ZONE "C" PER F.E.M.A. FLOOD
 INSURANCE RATE MAP 2400440019B

S 79°42'54" W
 313.91'



FOUNDATION DETAIL
 SCALE: 1"=30'



NOTE: ACCURACY OF APPARENT SETBACK DISTANCES ARE 1 FT. ±

NOTE: (A.) THIS PLAT IS NOT INTENDED FOR USE IN ESTABLISHING PROPERTY LINES AND DOES NOT CONSTITUTE A BOUNDARY SURVEY.

(B.) THIS PLAT IS OF THE BENEFIT TO THE CONSUMER ONLY INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENT IN CONNECTION WITH CONTEMPLATED TRANSFER, FINANCING OR REFINANCING.

(C.) THIS PLAT SHOULD NOT BE RELIED UPON FOR THE LOCATION OR ESTABLISHMENT OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS

THIS IS TO CERTIFY THAT WE HAVE LOCATED THE IMPROVEMENTS AS SHOWN ACCORDING TO THE REGULATIONS GOVERNING THE MARYLAND STANDARDS OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS EFFECTIVE DATE AUGUST, 2005

LOCATION CERTIFICATION
LOT 4
FLORENCE VISTA
 (MDR PLAT #21364)
2925 FLORENCE RD.

ZONED - "RC-DEO"
 TAX MAP 07 GRID 20 PARCEL 117
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 DATE: 09/14/12 SCALE: 1" = 100'

CHARLES R. CROCKEN & ASSOCIATES, INC.
 Civil Engineering Land Planning
 902 Lee Ave.
 Sykesville, Md. 21157
 Tel. (410) 549-2708

my certification expires 4/12/14

BQ

We are an Equal Opportunity Employer
S.W. Barrick & Sons
WOODSBORO, MARYLAND

CUSTOMER'S COPY

Barrick Dispatch 301-845-6343
Barrick Sale 301-845-6341

BILLING INQUIRIES
1-800-762-2294

Mailing Address:
P.O. Box 1504
Laurel, Maryland 20725

TICKET #00925209

STATION

DATE 10/27/12 TIME 07:48:00

CUSTOMER CUMDEV
CUMBERLAND DEVELOPMENT CORP.
16391 A.E. MULLINEX ROAD
WOODBINE, MD 21797

JOB ROLLAN : 2909 FLORENCE ROAD
P.O. # PROJECT #:
70-945-R/FLORENCE ROAD
1/2 MILE ON RIGHT
SEE SIGN "2901"

TRUCK 673A LICENSE 0 AXLES
DRIVER: COLSON TRUCKING

	lbs.	DAILY	Loads	Tons
GROSS	69920		2	43.91
TARE (STORED)	24100	TOTAL	13	291.11
NET	45820	TIME IN 07:48:09		TIME OUT 07:48:09
NET TONS	22.91			

MAT'L 22 : MD# 2 WASHED (AASHTO#3)
HAUL ZONE 108

WEIGHMASTER _____
SALLY GARDNER

RECEIVED BY _____
301-252-1123

OK To Dump

BQ

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S.W. Barrick & Sons
WOODSBORO, MARYLAND

CUSTOMER'S COPY

BILLING INQUIRIES
1-800-762-2294

TICKET #00925200

STATION

DATE 10/27/12 TIME 07:38:52

CUSTOMER CUMDEV
CUMBERLAND DEVELOPMENT CORP.
16391 A.E. MULLENEX ROAD
WOODBINE, MD 21797

JOB ROLLAN : 2909 FLORENCE ROAD
P.O. # PROJECT #:
70-94S-R/FLORENCE ROAD
1/2 MILE ON RIGHT
SEE SIGN "2901"

TRUCK 684A LICENSE 0 AXLES
DRIVER: A. J. TRANSPORTS, INC

GROSS 69420
TARE (STORED) 27420
NET 42000
NET TONS 21.00

	Loads	Tons
DAILY	1	21.00
TOTAL	12	268.20
TIME IN	07:38:52	TIME OUT 07:38:52

MAT'L 22 : MDF 2 WASHED (BASHTO#3)
HAUL ZONE 108

8:22 AM
10/27/2012

WEIGHMASTER
SALLY GARDNER

RECEIVED BY
301-252-1123

had already been inspected
system covered by contractor
measurements

He thought it

BQ

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S.W. Barrick & Sons
WOODSBORO, MARYLAND

INSPECTOR'S COPY

Barrick Dispatch 301-845-6343
Barrick Sale 301-845-6341

Mailing Address:
P.O. Box 1504
Laurel, Maryland 20725

BILLING INQUIRIES
1-800-762-2294

TICKET #00925211
STATION

DATE 10/27/12 TIME 07:51:55

CUSTOMER CUMDEV
UMBERLAND DEVELOPMENT CORP.
6391 A.E. MULLINEX ROAD
HOODBINE, MD 21797

JOB ROLLAN : 2909 FLORENCE ROAD
P.O. # PROJECT #:
70-945-R/FLORENCE ROAD
1/2 MILE ON RIGHT
SEE SIGN #2901

TRUCK 702A LICENSE
DRIVER: C.F. KERNS

0 AXLES

GROSS
TARE (STORED)
NET
NET TONS

lbs.
59360
23620
45740
22.87

	Loads	Tons
DAILY	3	66.78
TOTAL	14	313.98
TIME IN	07:51:55	TIME OUT 07:51:55

MAT'L 22 : MD# 2 WASHED (ASHTD#3)
HAUL ZONE 108

NEIGHMASTER

SALLY GARDNER

RECEIVED BY

301-252-1123

Scott, Heidi

From: Williams, Jeffrey
Sent: Tuesday, August 28, 2012 10:21 AM
To: albert young
Cc: Scott, Heidi
Subject: RE: Ask Health question

The reviewing Sanitarian, Heidi Scott, will be notifying shortly the company that designed the site plan that it must be revised. I will let her know to copy the builder on that communication.

From: albert young [mailto:albertyoungest@gmail.com]
Sent: Tuesday, August 28, 2012 10:15 AM
To: Williams, Jeffrey
Cc: Scott, Heidi
Subject: Re: Ask Health question

Dear Mr. Williams:

Thank you for professional and responsible analyses. When will you notify the builder? Thanks.

Albert

On Tue, Aug 28, 2012 at 1:24 PM, Williams, Jeffrey <jewilliams@howardcountymd.gov> wrote:

Coincidentally, our reviewing Sanitarian was just reviewing your building permit with a site plan identical to what you attached.

Upon close review, it looks like gravity is not an option to the top. The site plan shows the distribution box stopping several feet short of the top corner of the area, cutting off the top 1/3. We will need the distribution box to be placed in the top right corner of the area, which puts it at 682' elevation at the ground. In order to get gravity from the house, the box would have to be placed at 5.5' depth. That is too deep for the soil conditions you have out there. It starts to get rocky around 5' depth. Our septic specs will indicate that the distribution box shall be placed in top corner at 2.5' depth with a trench inlet at 2.5' and a bottom depth of 6'.

That puts the distribution box at 679.5' elevation, which is higher than the house invert out elevation of 677.7', hence the need for a pump chamber after the septic tank.

From: albert young [mailto:albertyoungest@gmail.com]
Sent: Friday, August 24, 2012 10:15 AM
To: Williams, Jeffrey
Subject: Re: Ask Health question

Dear Mr. Williams:

Thank you for answering my septic question. Attached is gravity septic system drawing. Do you think sewage will flow to top septic field?

Thanks.

On Mon, Jul 23, 2012 at 5:41 PM, Williams, Jeffrey <jewilliams@howardcountymd.gov> wrote:

This is a response to your ask health question:

Recently I bought lot on 2925 Florence Road, Woodbine. From original site map, septic field is on top and house is at lower location. Apparently it needs septic pump. But builder wants to save money on septic pump and move house location a little higher place for using gravity septic system. Based on my observation, sewage still cannot flow to highest part of drain field, maybe just flow to middle of drain field. This will make highest and best part of drain field useless. If sewage really cannot flow to the highest point, only flow to middle of drain field, do you permit this installation? Do you have any requirement to install pump septic system or gravity septic system on this lot?

We will require the septic system to be installed in the upper portion of the septic reserve. If a house location can be moved to avoid pumping the sewage to that upper portion, we do not object as long as all applicable setbacks are met. We will review the house location on a building permit site plan to determine if it is acceptable. A building permit site plan also must include the proposed location of the septic tank and distribution box with elevations, so we will be able to determine if gravity flow is obtainable or if a pumped system is necessary before signing off on the building permit.

Jeff Williams

Program Supervisor, Well & Septic Program

Bureau of Environmental Health

Howard County Health Dept.

410-313-4261

jewilliams@howardcountymd.gov

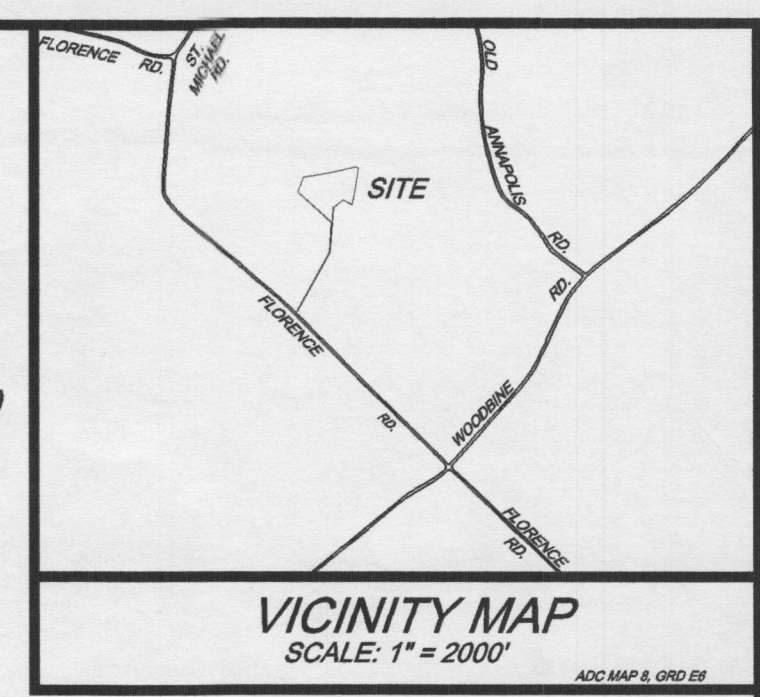
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SOILS LEGEND		
SYMBOL	NAME/DESCRIPTION	SOIL GROUP
GnB	Glenville-Balta silt loam, 0 to 3 percent slopes	C
GnC	Glenelg loam, 3 to 8 percent slopes	B
GnD	Glenelg loam, 8 to 15 percent slopes	B
BrD	Brinklow channery loam, 15 to 25 percent slopes	B

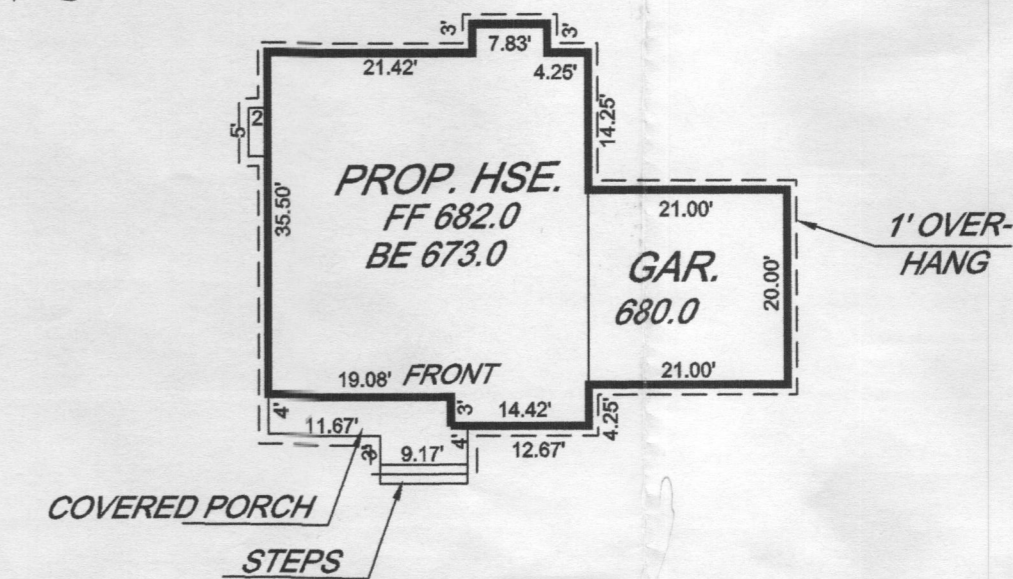
REQUIRED SEQUENCE OF CONSTRUCTION (SINGLE FAMILY LOT)

1. OBTAIN GRADING PERMIT (1-2 DAY)
2. CLEAR AND GRUB FOR INSTALLATION OF TEMPORARY SEDIMENT CONTROL MEASURES, SILT FENCE AND STONE CONSTRUCTION ENTRANCE. (12 DAY)
3. INSTALL TEMPORARY SEDIMENT CONTROL MEASURES (12 DAY)
4. UPON APPROVAL OF SEDIMENT CONTROL INSPECTOR CLEAR AND GRUB SITE FOR CONSTRUCTION OF DWELLING, DRIVEWAY AND WALKS. (1 DAY)
5. GRADE SITE AND CONSTRUCT DWELLING, DRIVEWAY AND WALKS PER APPROVED PLAN (12 - WEEKS)
6. STABILIZE ALL DISTURBED AREAS WITH SEED AND MULCH PER SCS STANDARDS. (2 DAYS)
7. UPON APPROVAL OF THE SEDIMENT CONTROL INSPECTOR REMOVE ALL TEMPORARY SEDIMENT CONTROL MEASURES AND STABILIZE ALL DISTURBED AREAS PER SCS STANDARDS. (2 DAYS)



GENERAL NOTES

1. OWNERS: ROY EDMON SPEEDY CLARK
LOIS ISABELLE CLARK
DEED REFERENCE: LIBER 8809, FOLIO 309
DATE: FEBRUARY 29, 2008
GRANTOR, ROY E. S. CLARK
LOUIS ISABELLE CLARK
2. TAX MAP 07, GRID 20, PARCEL 117
3. THE BOUNDARY SHOWN HEREON IS BASED UPON CURRENT TITLE DEED.
4. NEAREST PUBLIC WATER SUPPLY, DAMASCUS, DISTANCE 5 MILES (J)
5. THERE IS NO 100 YEAR FLOOD PLAIN LOCATED ON THIS PROPERTY BASED ON FEMA INSURANCE RATE MAP COMMUNITY PANEL #04044-00007 B, 12/4/85.
6. TOPOGRAPHY SHOWN HEREON IS FIELD RUN BY SILL, ADCOCK & ASSOC. L.L.C. AS SHOWN ON THE SUPPLEMENTAL INFORMATION PLAN OF FLORENCE VISTA, HOWARD COUNTY FILE # F-10-076, AND FIELD CHECKED BY CRC & ASSOC.
7. THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FT OF THE SUBJECT PROPERTY UNLESS OTHERWISE SHOWN HEREON.
8. EXISTING WELLS HO-85-1624 AND HO-85-1825 SHOWN HEREON HAVE BEEN FIELD LOCATED AND SHOWN ACCURATELY.
9. SUBJECT PROPERTY IS ZONED RC-DEO.
10. THE SUBJECT PROPERTY SHOWN HEREON IS NOT SUBJECT TO ANY ZONING CASES VARIANCES OR SPECIAL EXCEPTIONS.
11. STORMWATER MANAGEMENT FOR THE SUBJECT PROPERTY SHOWN HEREON HAS BEEN SATISFIED BY TAKING CREDIT FOR DISCONNECTED NON-ROOF TOP RUNOFF AND SHEET FLOW TO THE FOREST CONSERVATION EASEMENT IN ACCORDANCE WITH THE STORM WATER DESIGN MANUAL VOL. 1, SEC. 5.1 AND MDE ENVIRONMENTAL SITE DESIGN (ESD), THE HOWARD CO. DESIGN MANUAL VOLL. CHAPTER 5 REVISED AND THE HOWARD CO. DESIGN ESD ON SMALL PROJECTS.
12. THE REQUIREMENTS FOR A SIMPLIFIED ENVIRONMENTAL CONCEPT PLAN AND FOREST CONSERVATION FOR LOT 4 SHOWN HEREON HAVE BEEN STAMPED UNDER THE FINAL PLAN FOR FLORENCE VISTA F-16/076.



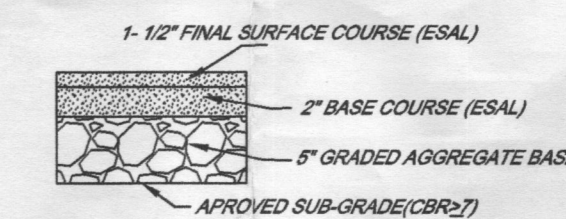
HOUSE DETAIL
SCALE: 1"=30'

SITE ANALYSIS

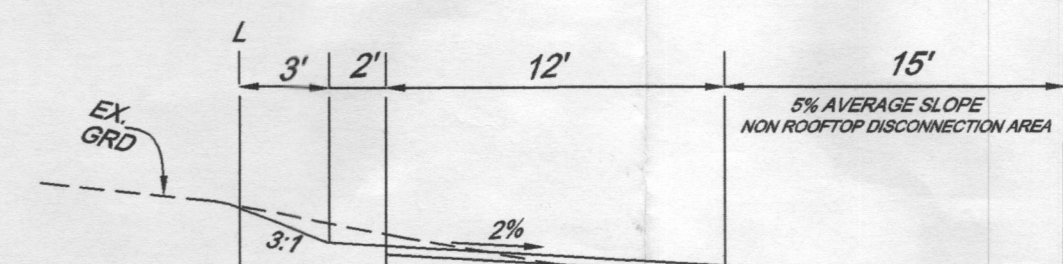
TOTAL AREA SITE	4.80 ACRES
AREA DISTURBED	28,285 SF
AREA TO BE ROOFED	2000 SF
AREA TO BE PAVED	4190 SF
TOTAL IMPERVIOUS AREA	6,190 SF
AREA TO BE VEGETATIVELY STABILIZED	22,075 SF
TOTAL VOLUME CUT	948 CY.
TOTAL VOLUME FILL	948 CY.

SWM REQUIREMENTS

TOTAL AREA SITE	3.00 ACRES
PERCENT IMPERVIOUS	= 6%, RCI = 63, TYPE 'B' SOIL
P = 1.0', ESD VOL = 588 CU-FT., SATISFIED BY DISCONNECTED RUNOFF.	



DRIVEWAY PAVING SECTION (P-1)
NOT TO SCALE

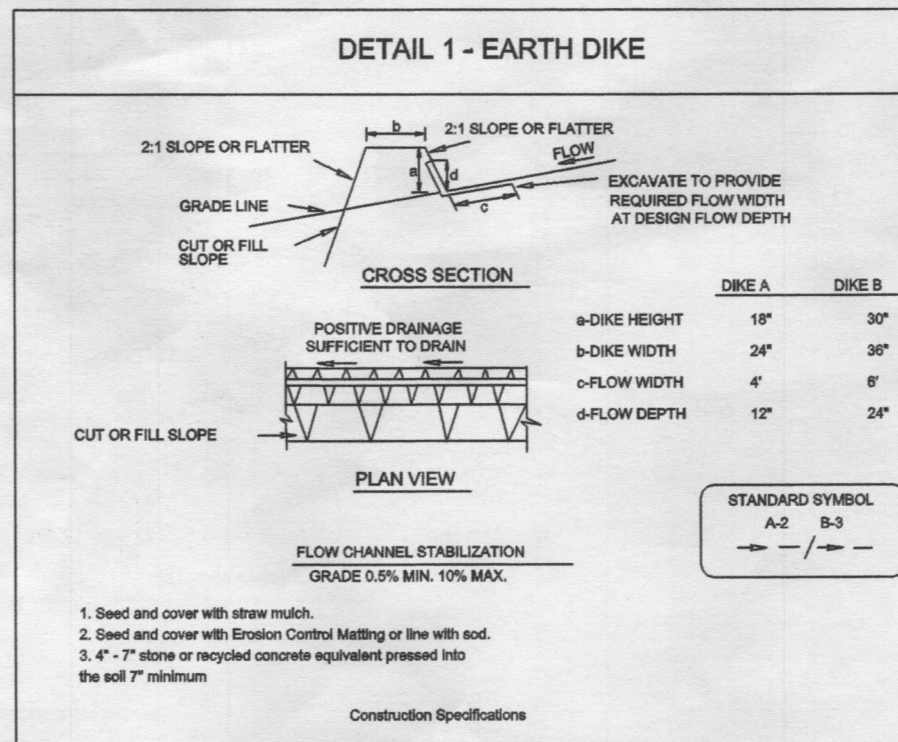


DRIVEWAY DETAIL
NOT TO SCALE

SEPTIC SYSTEM DATA

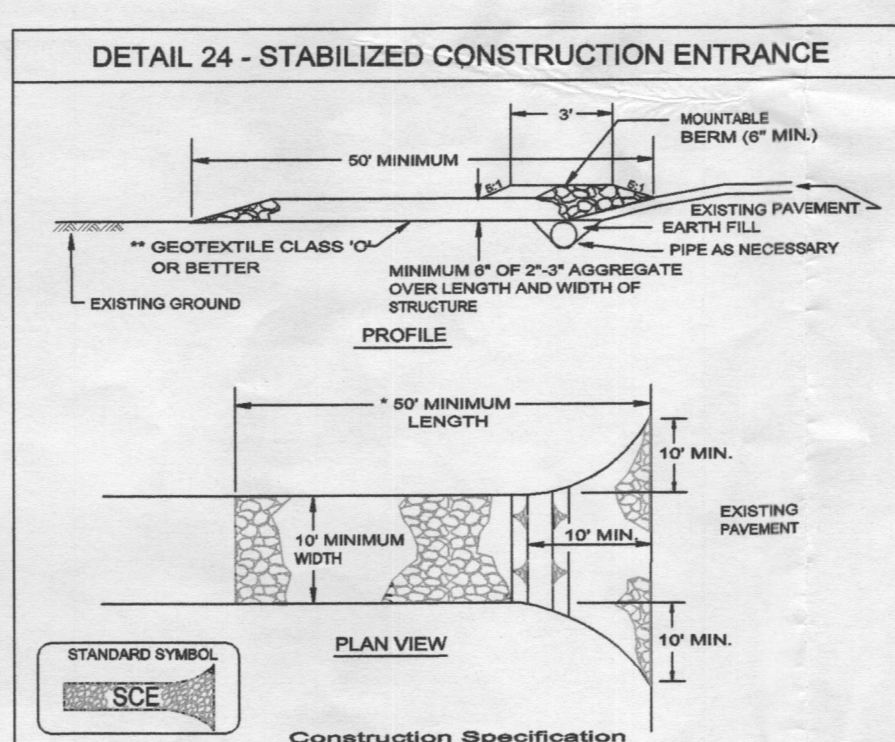
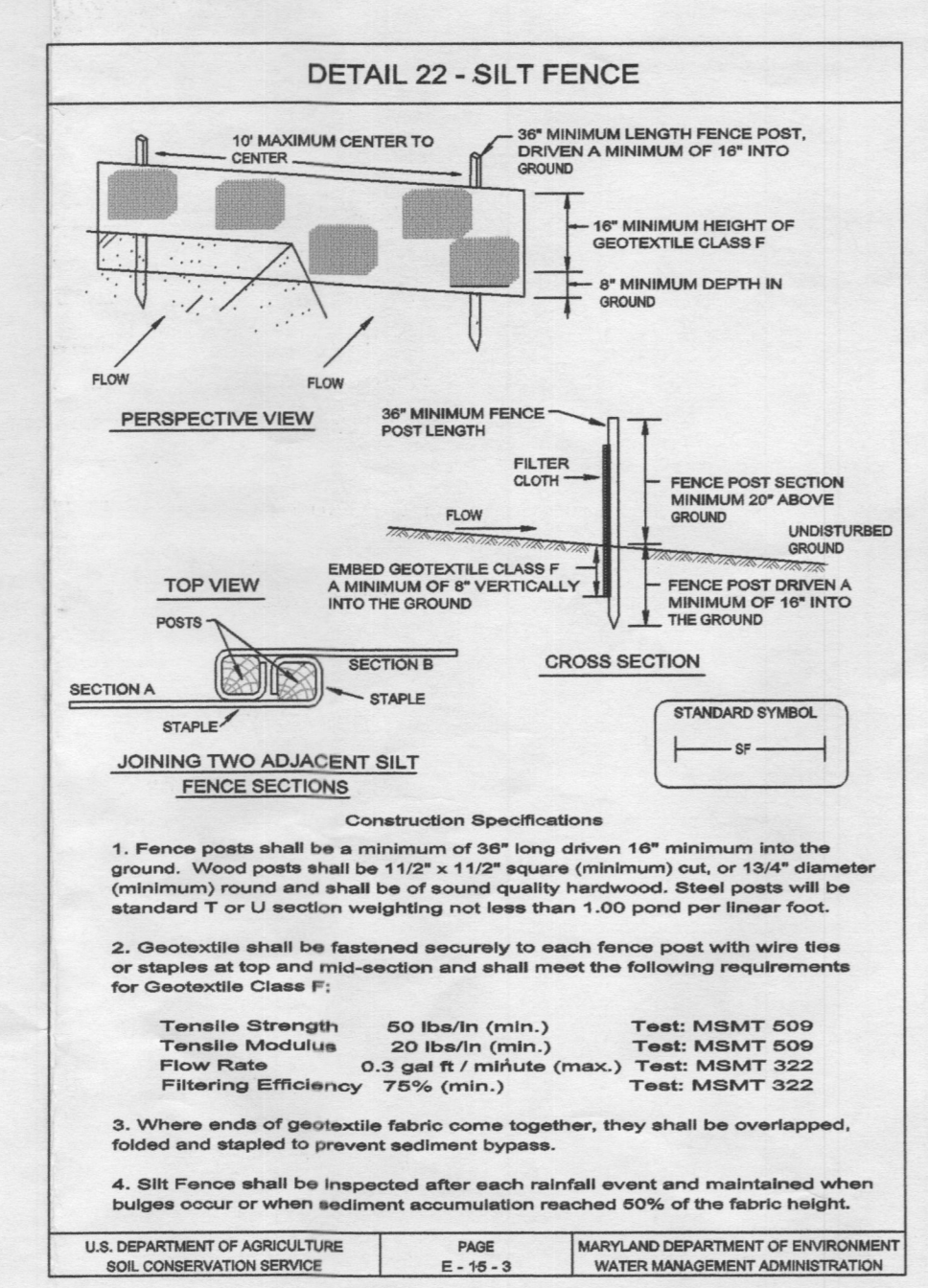
HOUSE	INV. AT HOUSE 670.50
SEPTIC TANK (1500 gal)	EX. GRADE 672.00
	FIN. GRADE 673.00
	INV. IN 670.20
	INV. OUT 670.04
PUMP CHAMBER (1000 gal)	EX. GRADE 671.00
	FIN. GRADE 672.25
	INV. IN 669.94
	INV. OUT 671.00
DISTRIBUTION BOX	EX. GRADE 682.00
	FIN. GRADE 682.00
	INV. IN 679.66
	INV. OUT 679.50

THE NUMBER OF TRENCHES, THEIR LENGTH, DEPTH AND ORIENTATION TO BE DETERMINED BY HEALTH DEPARTMENT.
GRAVITY SEWER SERVICE IS AVAILABLE TO FIRST FLOOR.
SEWER SERVICE TO BASEMENT AVAILABLE BY GRINDER PUMP.



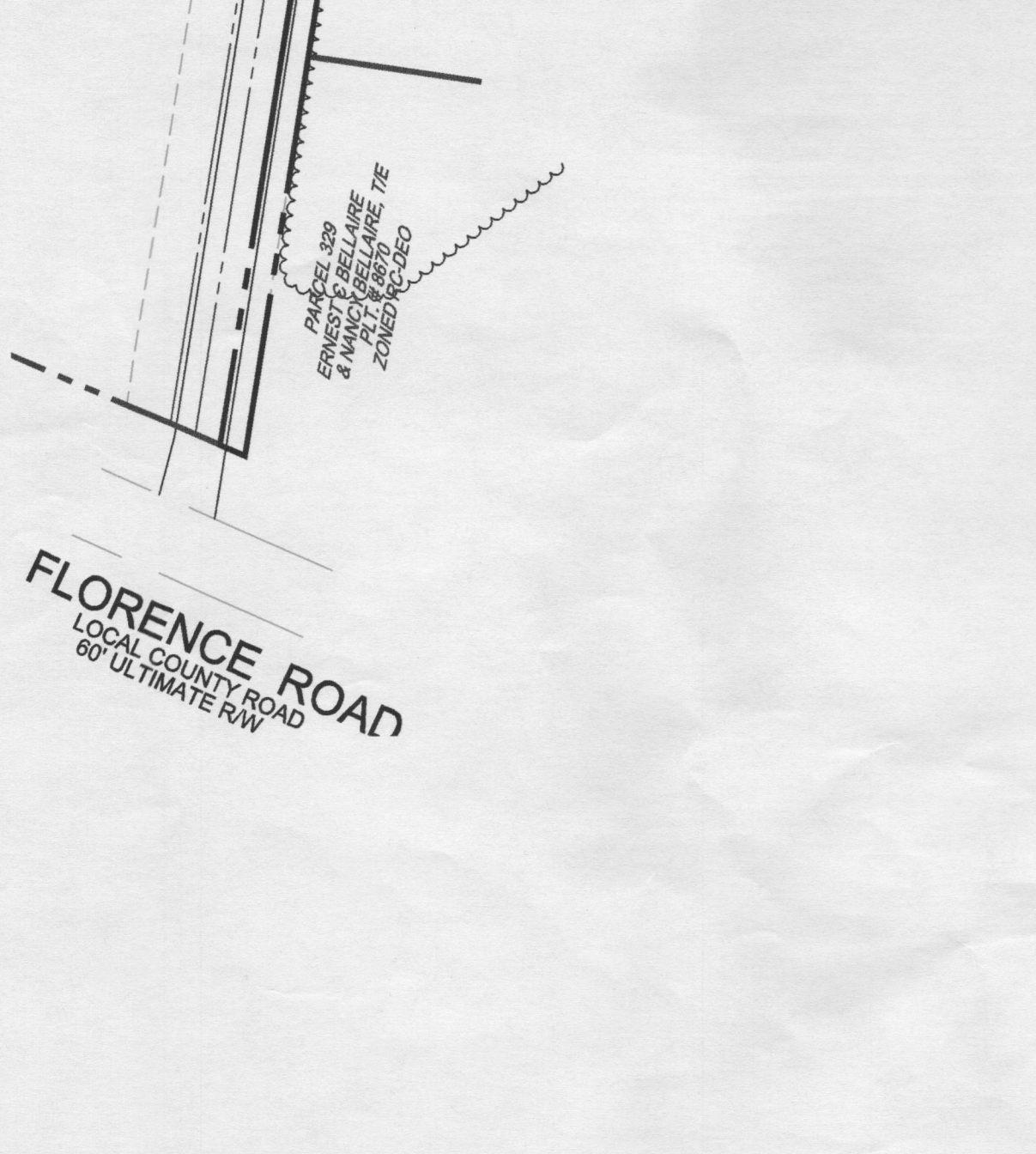
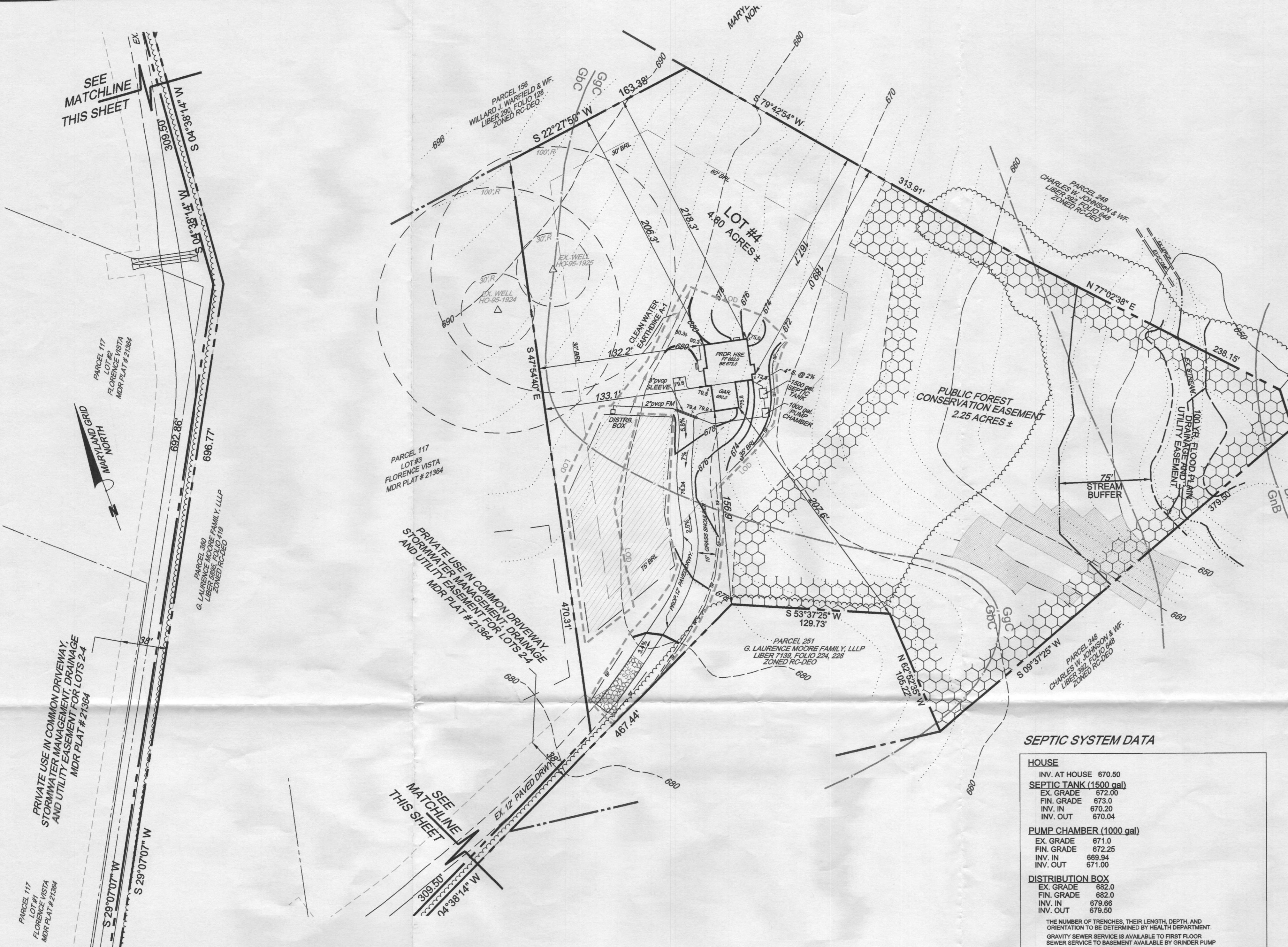
Construction Specifications

1. All temporary earth dikes shall have uninterrupted positive grade to outlet. Spot elevations may be necessary for grades less than 1%.
2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
5. The dike shall be excavated or shaped to fit, grade and cross section as required to meet the criteria specified herein and be free of base projections or other irregularities which will impede normal flow.
6. Fill shall be compacted by earth moving equipment.
7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
8. Inspection and maintenance must be provided periodically and after each rain event.



Construction Specification

1. Length - minimum of 50' (30' for single residence lot).
2. Width - 10' minimum, should be flared at the existing road to provide a turning radius.
3. 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.
4. 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.
5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a rountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has 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.
6. 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.



OWNER:
ROY EDMON SPEEDY CLARK
LOIS ISABELLE CLARK
2901 FLORENCE RD
WOODBINE MD 21797

DEVELOPER:
CUMBERLAND DEVELOPMENT CORP.
C/O CURTIS CUMBERLAND
16391 MULLINX RD.
WOODBINE MD 21797

NO.	DATE	REVISION

NON-SDP RESIDENTIAL PLOT PLAN
LOT 4
FLORENCE VISTA
(MDR PLAT #21364)
2925 FLORENCE RD.

TAX MAP 07 GRID 20 PARCEL 117
4TH ELECTION DISTRICT

ZONED - "RC-DEO"
HOWARD COUNTY, MARYLAND

DESIGNED BY: C.R.C.	DATE: AUGUST, 2012
DRAWN BY: C.H.C.	SCALE: 1" = 50'
PROJECT NO.:	DRAWING NO. 1 OF 1

Prepared by: CHARLES R. CROCKEN AND ASSOCIATES, INC.
Civil Engineering - Land Planning
302 LEE AVE.
SYKESVILLE, MD 21784
Tel. (410) 549-2708
Fax. (410) 549-9083

Professional Engineer Seal for Charles R. Crocken, No. 1903, State of Maryland.