

Approved MRE
7/7/23

Record Detail (This section is required.)

Permit Type	Permit Number	Opened Date
Building/Residential/Misc/Solar Panel	B23002527	07/05/2023
Description of Work		
SFD/ INSTALL (12) GROUND MOUND SOLAR PANESLS		

[check spelling](#)

Address (This section is required.)

Search Reset Clear Get Parcel & Owner

Street #	Street Name	Street Type	
667	WELLER	DR	
Unit Type	Unit #	X Coordinate	Y Coordinate
--Select--		-77.07185	39.35548
City	State	Zip Code	Primary
MOUNT AIRY	MD	21771	Yes

Parcel (This section is required.)

Search Reset Clear Get Address & Owner

GIS ID	Parcel	Parcel Area	Land Value	Improved Value	Exemption Value	Plan Area
830109	227	3.22	281600	575000	293400	RURAL

Legal Description
IMPSLOT 23 3.220 A[]667 WELLER DR[]PATAPSCO OVERLOOK S 2

[check spelling](#)

Block	Lot	Census Tract	Council Dist	Inspection Dist	Supervisor Dist	Map #	DAP Zone
	23	604001	5				
Plan Area	State Tax Id		Subdivision Name				
	1404344820		PATAPSCO OVERLOOK SEC				
Section	Area		Tax Map				
			2				
Grid	Zoning District		ADC Map				
2-24	RC-DEO		4691-J4				
SDP No.	Final Plan No.		WP File No.				
Record Plat No.	WS Contract No.		FDP No.	Primary			
6784				Yes			
Owner Occupied	Year Built		Historic District				
<input type="radio"/> Yes <input type="radio"/> No	1988		<input type="radio"/> Yes <input checked="" type="radio"/> No				
Historic District Registry No.	Stat Area		Flood Plain				
	4-02		<input type="radio"/> Yes <input checked="" type="radio"/> No				
Building No							

Owner (This section is required.)

Search Reset Clear

Name
CALDWELL JAMES A

Address Line 1
667 WELLER DR

Address Line 2

Address Line 3

Mail City
MOUNT AIRY

Mail State
MD

Mail Zip Code
21771

Phone
301-717-4889

E-mail

Primary
Yes

A4albie@yahoo.com

Cell Number

Fax Number

Professionals * (This section is required.)

License # *	Business Name		
08010102213	MILESTONE SOLAR CONSULTANTS LLC		
License Type *	First Name	Middle Name	Last Name
MHIC Ind	✓ BILLY		ANDERSON
Primary	Address Line 1		
Yes	✓ 730 LOCKHOUSE RD		
	Address Line 2		
	City	State	ZIP Code
	FALLING WATERS	WV	25419-0000
	Phone 1	Phone 2	Fax
	8666888322		8669726012
	E-mail		
	ROSE@MILESTONESOLAR.COM		

Applicant * (This section is required.)

Search As Owner As Lic. Prof As Contact

Type	First Name	MI	Last Name
Applicant	✓ Billy		Anderson
Relationship	Full Name		
--Select--	✓ Billy Anderson		
Primary	Organization Name		
Yes	Milestone Solar Consultants, LLC		
	Street Address		
	730 Lockhouse Road		
	Address Line 2		
	City	State	Zip Code
	Falling Waters	WV	25419
	Phone	Cell	Fax
	866-688-4274	304-279-9099	866-922-6012
	E-mail *		
	contacts@milestonesolar.com		

Addtl Info

Est Construction Cost *	Housing Units *	Number of Buildings *	Public Owned
36265	0	0	No
Construction Type	--Select--		

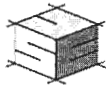
RESIDENTIAL SOLAR PANEL INFO

SOLAR PANEL INFORMATION

Capital Project-No Fee	Type of Installation *	Number of Panels *	Water Supply *	Sewage Disposal *	Expiration Date
<input type="radio"/> Yes <input checked="" type="radio"/> No	Solar Collector - Ground Mount	12	Private	Private	1/3/2024
Existing Use	Sprinkler System *				
SFD	<input type="radio"/> Yes <input checked="" type="radio"/> No				

PAYMENT INFORMATION

Submit Cancel



STRUCTURAL ENGINEERING UNLIMITED, LLC

Milestone Solar Consultants, LLC

P.O. Box 507

Falling Waters, WV 25419

July 1, 2023

Attn: Mr. Bill Anderson

Re: Caldwell Residence

667 Weller Drive – Mount Airy, MD 21771

Structural Certification.

Mr. Anderson:

In accordance with your request I, Juan Utrera P.E. acting as an independent structural engineer for the project, located on 667 Weller Drive – Mount Airy, MD 21771, have reviewed the information provided by Milestone Solar Consultants, LLC for the ground supported installation of solar panels.

The proposed solar modules will be mounted to ground rack system built using the 2” & 3” Diameter Ground screws and the XR-1000 rails, with a maximum span of 12’-10”; to support the REC ALPHA PURE BLACK SERIES 405 solar panels.

The proposed solar panel collectors and the System to support the collectors comply with the 2018 International Building Code (IBC) and the Uniform Solar Energy Code.

Should you have any questions regarding the information submitted, or if I can be of further assistance please call me at (301) 748-2769.

Sincerely,

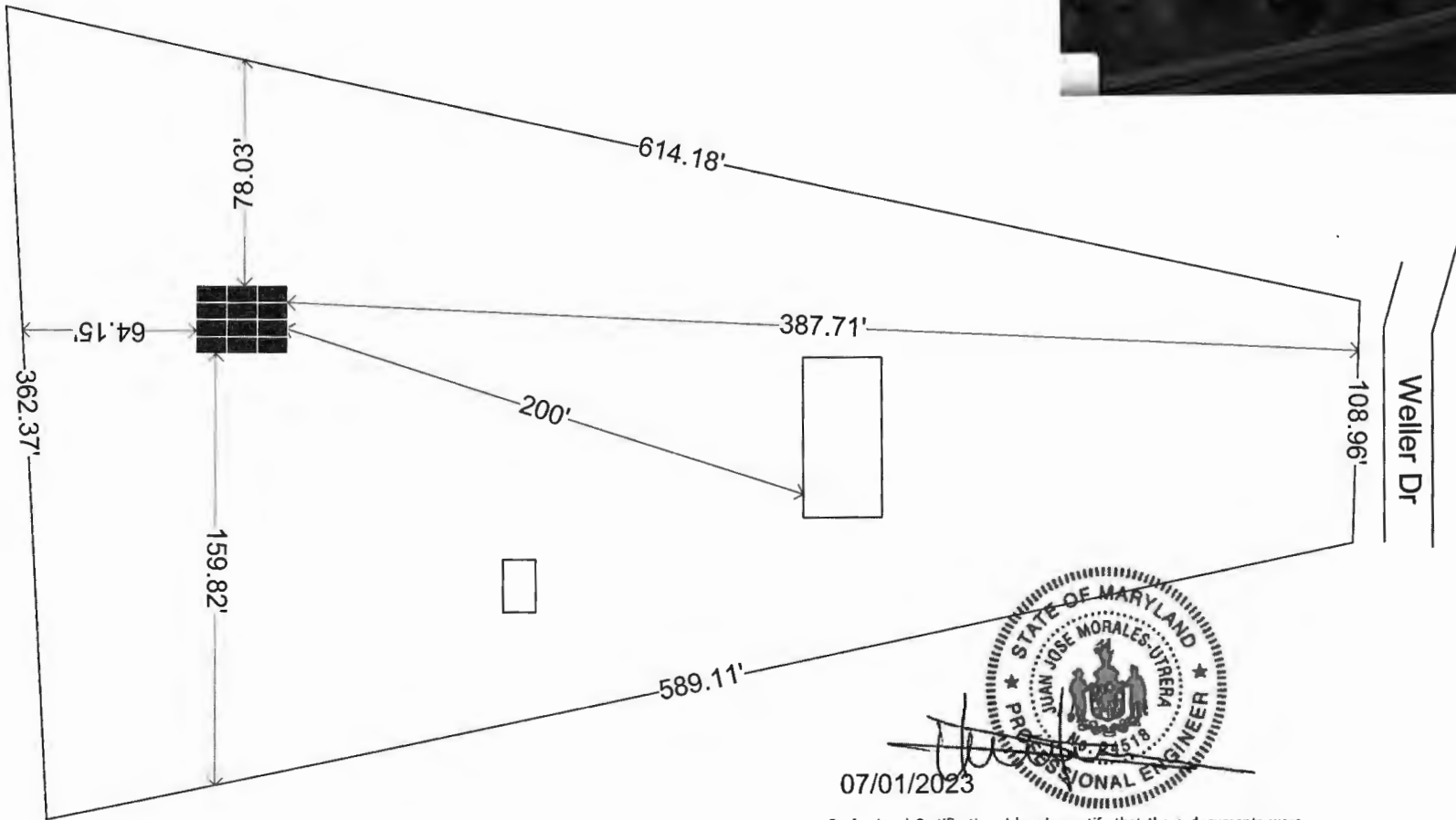
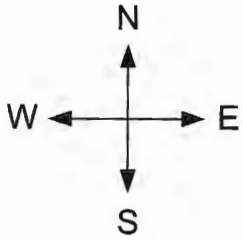

Juan M. Utrera, P.E.

President

Structural Engineering Unlimited, LLC



Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a professional engineer duly licensed under the laws of the State of Maryland.
License No. 24518 Expiration Date: 9/21/2023



07/01/2023

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a professional engineer duly licensed under the laws of the State of Maryland.
 License No. 24518 Expiration Date: 9/21/2023

**MILESTONE
SOLAR
CONSULTANTS LLC**

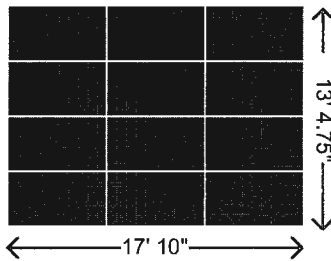
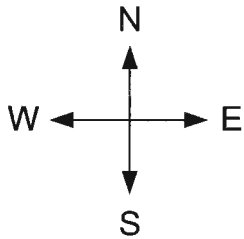
Signature with seal
 BILL ANDERSON, PMP
 NAPCEP PROFESSIONAL &
 CONSULTANT
 FALLING WATERS,
 WEST VIRGINIA

**Caldwell Residence
 667 Weller Drive,
 Mt. Airy, MD 21771**

SHEET NAME
 SITE PLAN

SHEET SIZE
 A4

SHEET No.
 01



07/01/2023

Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a professional engineer duly licensed under the laws of the State of Maryland.
 License No. 24518 Expiration Date: 9/21/2023

**MILESTONE
SOLAR**
CONSULTANTS LLC

Signature with seal
 BILL ANDERSON, PMP
 NAPCEP PROFESSIONAL &
 CONSULTANT
 FALLING WATERS,
 WEST VIRGINIA

Caldwell Residence
667 Weller Drive,
Mt. Airy, MD 21771

SHEET NAME
PV LAYOUT

SHEET SIZE
A4

SHEET No.
02

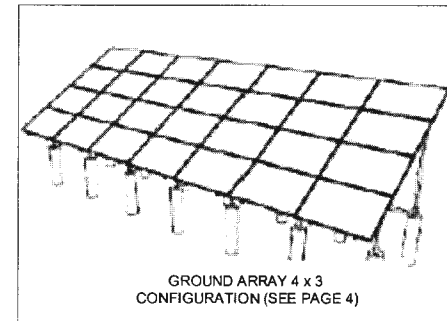
System Details:

- Residential 4.86kW grid tied (photovoltaic) system
- This system has been designed in accordance with all current and applicable NEC, OBC, and RCO codes
- Height of the Array: 3-4in above the roof, parallel to the roof
- Weight of the Array: Less than 4lbs/ft²
- Total Area of Array: 5.975ft x 3.33ft x 12 = 238sq. ft.
- Weight of the Array on Ground Mount Structure: 43lbs x 12 = 516lbs
- Stress of Array on Ground Mount Structure : 516lbs./239sq.ft.= 2.29 lbs/sq. ft.
- trenching would be needed with this project

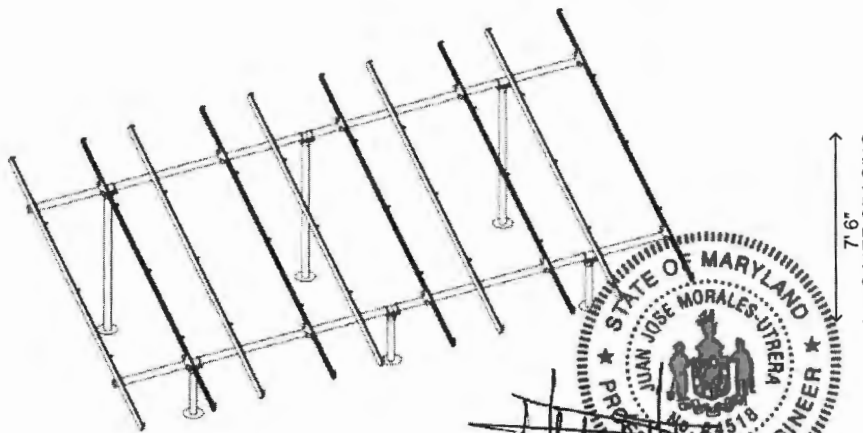
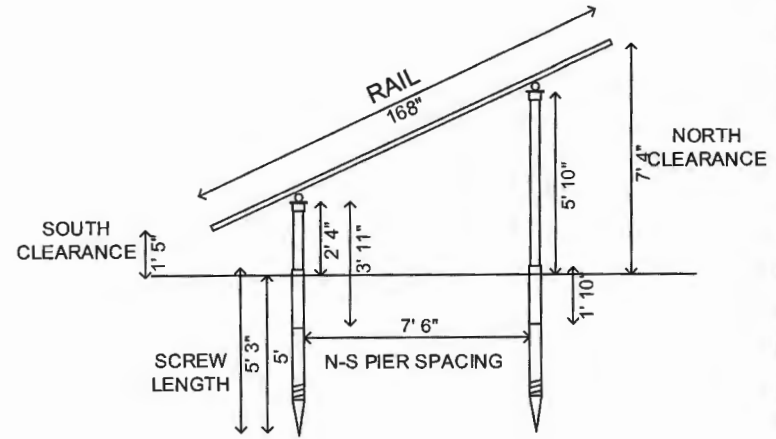
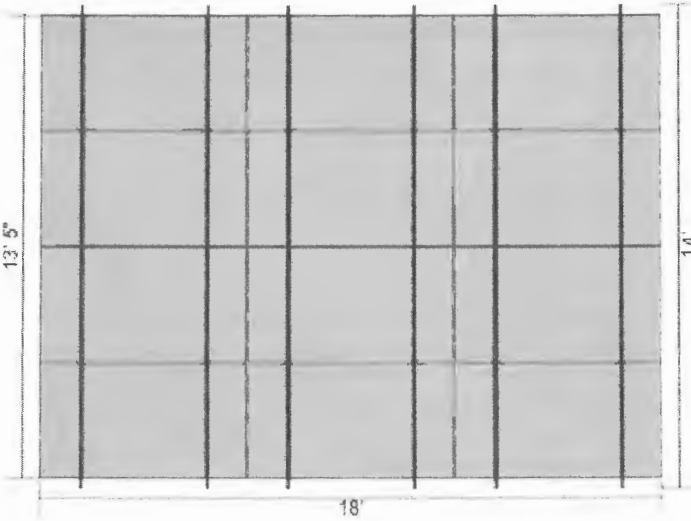
REC SOLAR
REC405AA-BLK/BLK



71.7 x 40 x 1.2 in
(1821 x 1016 x 30 mm)

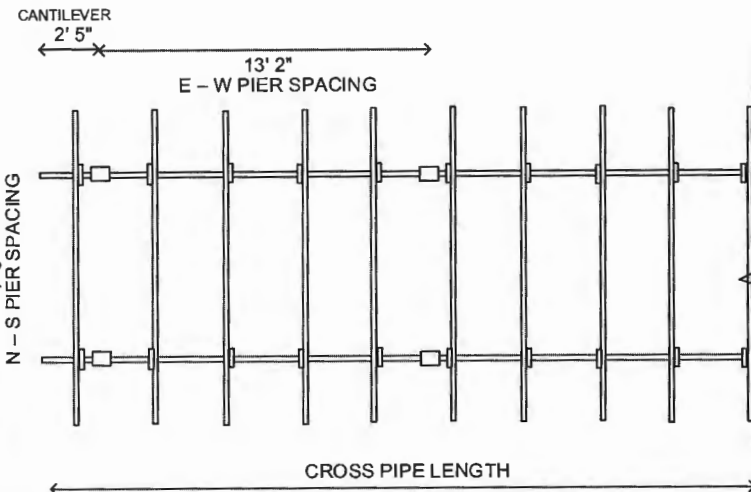


GROUND ARRAY 4 x 3
CONFIGURATION (SEE PAGE 4)



07/01/2023

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License No. 24518 Expiration Date: 9/21/2023



Rail type	E/W spacing	Rail cantilever	Size	Edge clearances	Shear Φ	Moment Φ	Uplift Φ	
XR1000	13' 2"	2' 10"	18" (EW) x 13' 7" (NS)	1' 5" (S); 7' 4" (N)	946 lbs	2,365 ft.-lbs	-1,159 lbs	
Rows	Columns	# Arrays	Piers/array	Total South piers	Total North piers	Total cross pipes	Pipe cantilever	Total pipe length
4	3	1	4	2 (3' 11")	2 (7' 5")	2 (18)	2' 5"	56' 9"

Signature with seal
BILL ANDERSON, PMP
NAPCEP PROFESSIONAL &
CONSULTANT
FALLING WATERS,
WEST VIRGINIA

Caldwell Residence
667 Weller Drive,
Mt. Airy, MD 21771

SHEET NAME
RACKING LAYOUT
(Ground Mount Array)

SHEET SIZE
A4

SHEET No.
03

8/26/88 AM MEET CONTRACTOR
8/21/88 2 PM
Septic + Water line to + from well

9/1/88/NOJ File

✓ 8/31 Partial - C.O. C.B.A.

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

P 42298

A 31257

DISTRICT 4th

DATE 8/05/88

DATE SYSTEM APPROVED 9/1/88

INSPECTOR C.R. Stecker

04-344820
INDEXED

J. Joseph Gartland Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS 1835 W. Old Liberty Road, Westminster, MD 21157 PHONE _____

SUBDIVISION Patapsco Overlook ROAD 667 Weller Drive LOT 23, Sec.2

PROPERTY OWNER Oakland Builders, Inc.

ADDRESS Barbara Caldwell

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES _____ NO

SEPTIC TANK CAPACITY 1250 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 194 sq. ft. per bedroom. Trench to be 3 feet wide. Inlet 3 1/2 feet below original grade. Bottom maximum depth 7 feet below original grade. Effective area begins at 3 1/2 feet below original grade. 20 feet of stone below distribution pipe.

LOCATION - SHALLOW SYSTEM ONLY. Beginning from left front lot corner, place 1st trench 300 feet down the left (588.00') lot line and 110 feet off the left line as seen when facing property from Weller Drive. Run trenches along contour towards the right (615.50') line.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. D/C/W

PLANS APPROVED BY Bert Nixon DATE 6/04/87

COVER NO WORK UNTIL INSPECTED AND APPROVED.

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

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E., TANK, DISTRIBUTION BOX, TRENCHES) TO BE 100 FEET FROM WELL. (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCHES ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCHES).

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER. NO ABSORPTION TRENCH TO EXCEED 100 FEET

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 40 PVC OR ABS.

PERMIT VOID AFTER TWO YEARS.

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL. STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES.

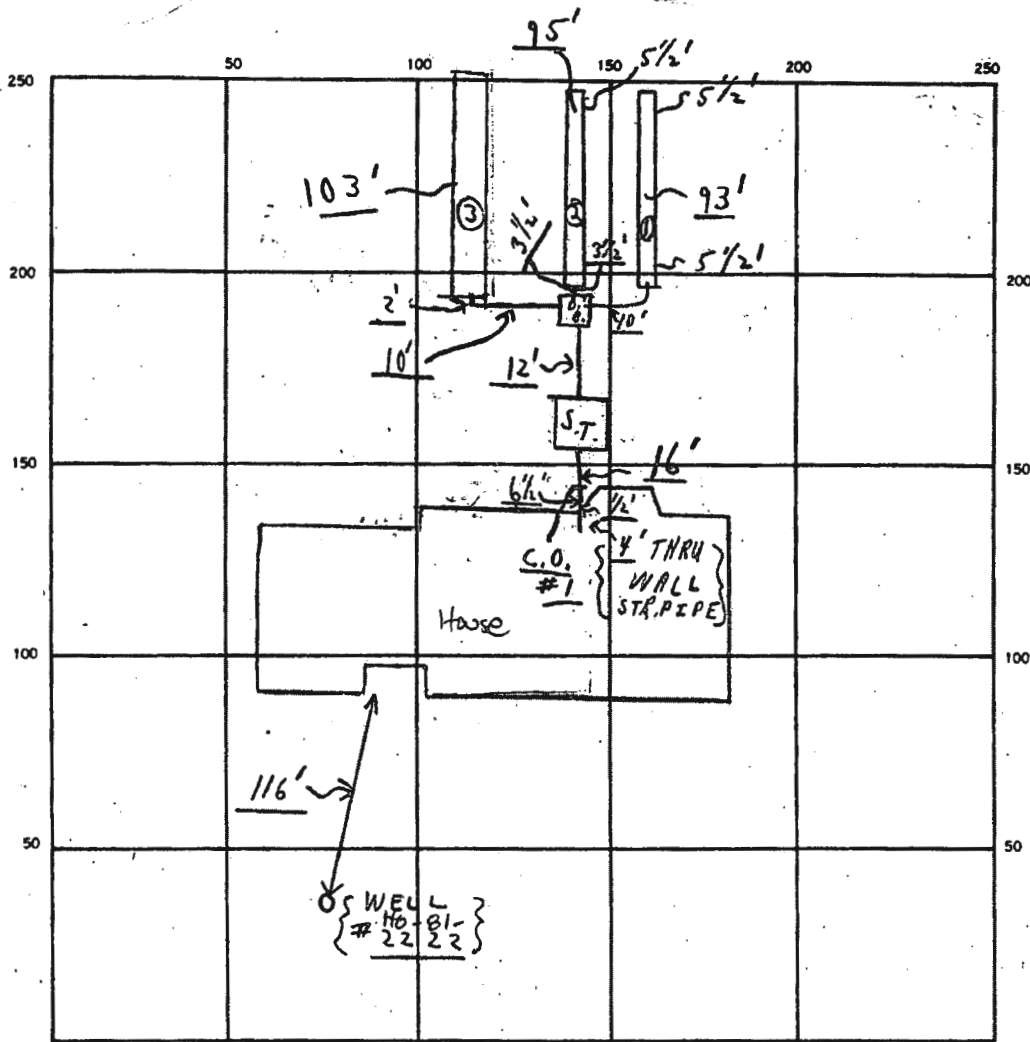
BLDG PERMIT SIGNED AND RETURNED 7-2-98
Serial # Bro 118071 deck

BLDG PERMIT SIGNED AND RETURNED 9/5/01 = 800172265
finish 13 smt to create family room full bath

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

A 31257



INDICATE NORTH. — NAME ADJOINING ROADWAY AS BASE LINE.
Weller, Dr.

#1	C.O.
C.O.	S.T.
OK	OK

SEPTIC TANK LEVEL OK CLEANOUTS OK

DISTRIBUTION BOX LEVEL OK - (BAFFLE IN)

DRAIN FIELD/TILE FIELD. DEPTH 5.5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 3 1/2 FT.

EFFECTIVE GRAVEL DEPTH _____ FT. TOTAL LENGTH 93' FT. 95' FT. 103' FT. } 291' FT.

NUMBER OF TRENCHES (3) ONE SIDEWALL/BOTTOM AREA 873 SQ. FT.

DRYWELL INSIDE DIAMETER _____ FT. EFFECTIVE DEPTH BELOW INLET _____ FT.

ABSORBENT AREA 873 SQ. FT.

REMARKS 8/31/88 ① OK TO COVER FROM HOUSE TO D. BOX; OK TO COVER ① TRENCH;
 (PARTIAL PERMIT SIGNED); NEED TO SEE GRAVEL LEVEL IN #②
 AND #③ TRENCH; NEED TO MEASURE #③ TRENCH. C.B.S.
9/1/88 OK TO COVER; FINALED ON PERMIT.

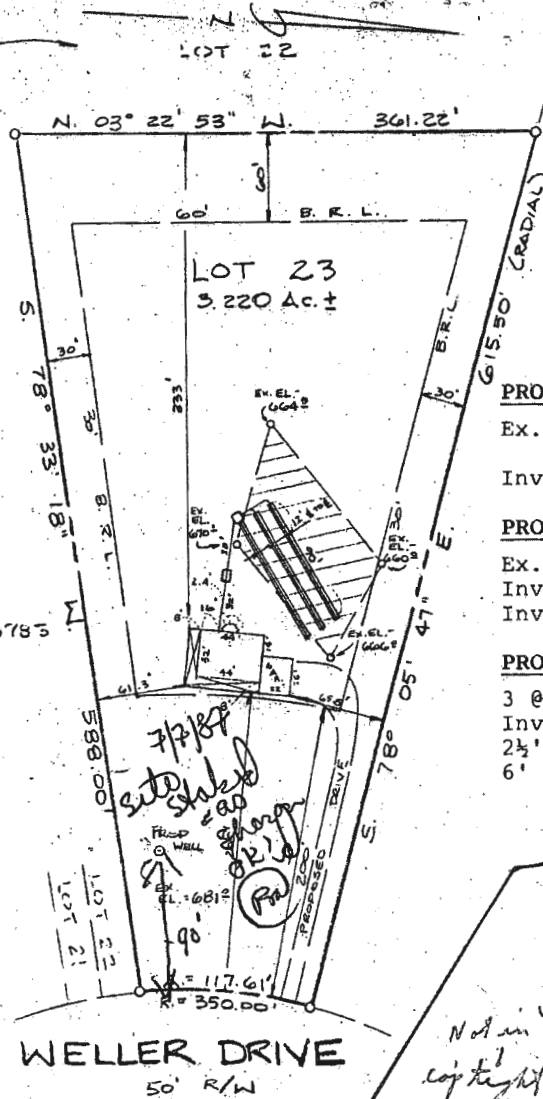
DATE SYSTEM APPROVED 9/1/88 INSPECTOR Charles Bryan H. Trecker

PATAPSCO
OVERLOOK

SECTION 2

SHEET 2 OF 3

PLAT C.M.P. NO 6785



PROP. 2 STORY HSE.

F.F. EL. = 676.0
Bsmt. El. = 667.5
Inv. Out. = 666.8

PROP. DISTRIBUTION BOX

Ex. El. = 669.2
LOT 24
Inv. In = 665.9

PROP. SEPTIC TANK-

Ex. El. = 671.1
Inv. In = 666.5
Inv. Out = 666.24

PROP. TRENCHES-

3 @ 90' (length)
Inv. El. = 665.7
2 1/2' of stone
6' bottom max.

WELLER DRIVE
50' R/W

Left application
date
Parted for
8/31/88
Kittles adapted
C.B.C.

Only line not connected @ well.
4' of line only to 7' of well
to house. See folder
green card
9/1/88 Kittles
adapted
C.B.C.

PLOT PLAN
LOT 23, SECTION 2
SHEET 3 OF 3

PATAPSCO OVERLOOK
SITUATED ON WELLER DRIVE
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE: 1" = 100'

JUNE, 1987



I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.



SHELADIA Associates, Inc.
CONSULTING ENGINEERS
310-A South Main Street, Mt. Airy MD. 21771
(301) 820-2990

N7256

REFERENCE
PLAT C.M.P. NO 6784

JOB NO.
87-1536