



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

DILP 2019 JUL 28 PM 2:29

Date Received: _____

Permit No.: B19002425

Building Address: 3347 JENNINGS CHAPEL RD.
City: WOODBINE State: MD Zip Code: 21797
Suite/Apt. # _____ SDP/WP/BA #: F-18-021
Census Tract: _____ Subdivision: SQUARE WOODS
Section: _____ Area: _____ Lot: 1
Tax Map: 0020 Parcel: 0140 Grid: 0004
Zoning: _____ Map Coordinates: _____ Lot Size: 3,198A
ECP-17-03C

Existing Use: VACANT LOT
Proposed Use: NEW SINGLE FAM. DWELLING
Estimated Construction Cost: \$450,000
Description of Work: NEW SFD - ONE STORY, w/ partially fin. Bsmt. Three BDRMS, 4 FB, 1 PR, front porch, attic 3 CM GARAGE, REAR SCREENED porch, AND Deck w/ Steps to grade
Occupant or Tenant: _____

Was tenant space previously occupied? Yes No
Contact Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____
Email: _____

Commercial Building Characteristics	Residential Building Characteristics
Height: <u>N/A</u>	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories: <u>1</u>	Depth: _____ Width: _____
Gross area, sq. ft./floor: _____	1 floor: <u>39'</u> 86'
Area of construction (sq. ft.): _____	2 floor: <u>N/A</u> N/A
Use group: _____	Basement: <u>39'</u> 62'
Construction type:	<input checked="" type="checkbox"/> Finished Basement
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Unfinished Basement
<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space
<input type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade
<input type="checkbox"/> Wood Frame	No. of Bedrooms: _____
<input type="checkbox"/> State Certified Modular	<u>Multi-family Dwelling</u>
	No. of efficiency units: _____
	No. of 1 BR units: _____
	No. of 2 BR units: _____
	No. of 3 BR units: _____
	Other Structure: _____
	Dimensions: _____
<input checked="" type="checkbox"/> Roadside Tree Project Permit	Footings: _____
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Roof: _____
Roadside Tree Project Permit # _____	<input type="checkbox"/> State Certified Modular
	<input type="checkbox"/> Manufactured Home

Property Owner's Name: JENNIFER/PAUL CASASCO
Address: 3365 JENNINGS CHAPEL RD
City: WOODBINE State: MD Zip Code: 21797
Phone: 443-846-0437 Fax: _____
Email: _____

Applicant's Name & Mailing Address, (If other than stated herein)
Applicant's Name: CLSI - ENGINEER
Address: SEC ENGINEER Below
City: LALEXANDER State: MD Zip Code: 21157
Phone: _____ Fax: _____
Email: LAlexander@CLSI MAIL.COM

Contractor Company: JMB HOMES
Contact Person: JOHN BERGER
Address: 5880 TEN ESTATES
City: WOODBINE State: MD Zip Code: 21797
License No.: 6141
Phone: 443-244-1667 Fax: _____
Email: JBERGER@JMB HOMES.COM

Engineer/Architect Company: CLSI
Responsible Design Prof.: LINDA ALEXANDER
Address: 439 EAST MAIN ST.
City: Westminster State: MD Zip Code: 21157
Phone: 410-871-4475 Fax: _____
Email: LAlexander@CLSI MAIL.COM

Utilities	
<u>Water Supply</u>	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
<u>Sewage Disposal</u>	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Electric: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Gas: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<u>Heating System</u>	
<input type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input checked="" type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other: _____	
<u>Sprinkler System:</u>	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number: <u>G19000162</u>	
Building Shell Permit Number: _____	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE WILL WAIVE THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: Linda Alexander
Email Address: lalexander@clsimail.com
Title/Company: Associate / CLSI

Print Name: LAlexander@clsimail.com CLSI ENR.
Date: 6/26/2019

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
PLEASE WRITE NEATLY & LEGIBLY
FOR OFFICE USE ONLY

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>8/28/2019</u>	<u>[Signature]</u>

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION
Front: _____
Rear: _____
Side: _____
Side St.: _____
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone: _____
SDP/Red-line approval date: _____

Filing Fee	\$ 150
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub-Total Paid	\$
Balance Due	\$
Check	# <u>239</u>

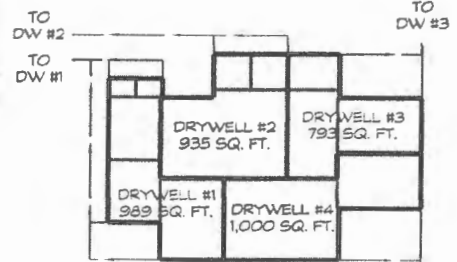
Distribution of Copies: White: Building Officials Green: PSZA, Zoning Yellow: PSZA, Engineering Pink: Health Gold: SHA

mylars NOT changed yet

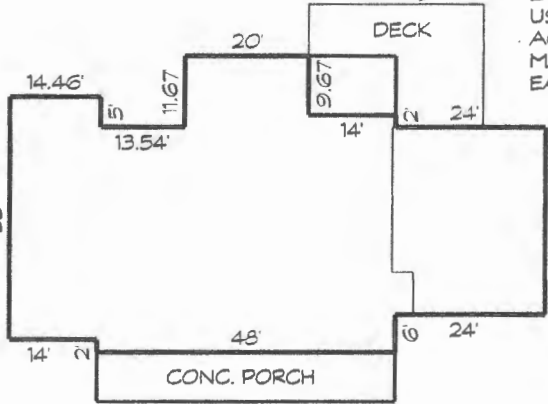
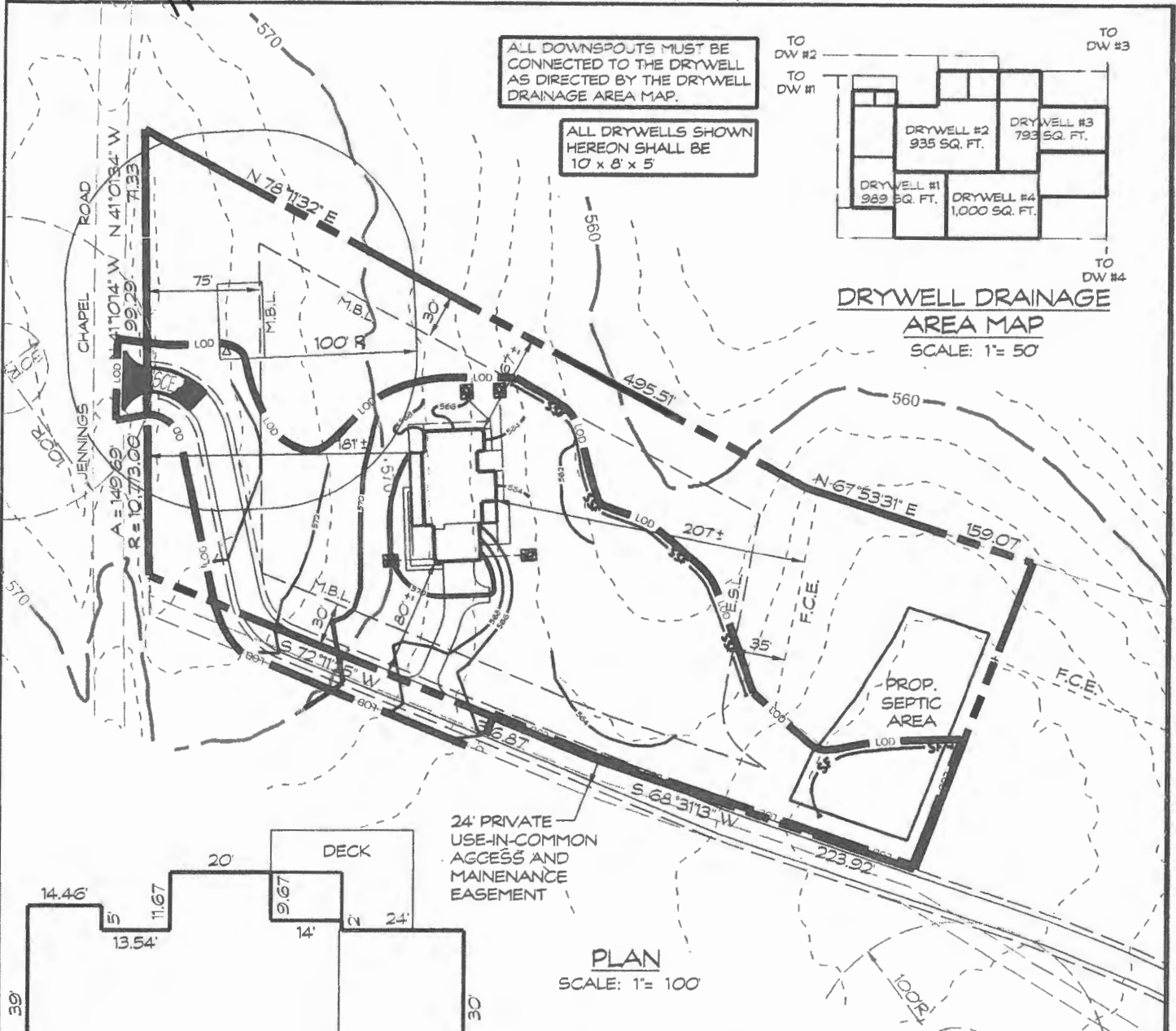
Approved BPA02425 M/E 8/28/2019

ALL DOWNSPOUTS MUST BE CONNECTED TO THE DRYWELL AS DIRECTED BY THE DRYWELL DRAINAGE AREA MAP.

ALL DRYWELLS SHOWN HEREON SHALL BE 10' x 8' x 5'



DRYWELL DRAINAGE AREA MAP
SCALE: 1" = 50'



HOUSE DETAIL
SCALE: 1" = 30'

PLAN
SCALE: 1" = 100'

24' PRIVATE USE-IN-COMMON ACCESS AND MAINTENANCE EASEMENT

L.O.D. - DENOTES LIMIT OF DISTURBANCE TOTAL AREA = 79,237 SQ. FT.

SEDIMENT AND EROSION CONTROL SHOWN HEREON FROM APPROVED PLAN FOR SQUARE WOODS LOTS 1 THRU 3 F-18-021

SEE SHEET 2 OF 2 FOR DETAILED GRADING PLAN

BUILDER TO VERIFY AVAILABILITY OF BASEMENT SEWER SERVICE PRIOR TO DWELLING STAKEOUT.

THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HERE ON.

Luca A. Alexander
CARROLL LAND SERVICES, INC. DATE: 5/30/19

EXISTING GRADES SHOULD BE FIELD VERIFIED WHEN HOUSE STAKEOUT IS DONE.

DATE	REVISIONS

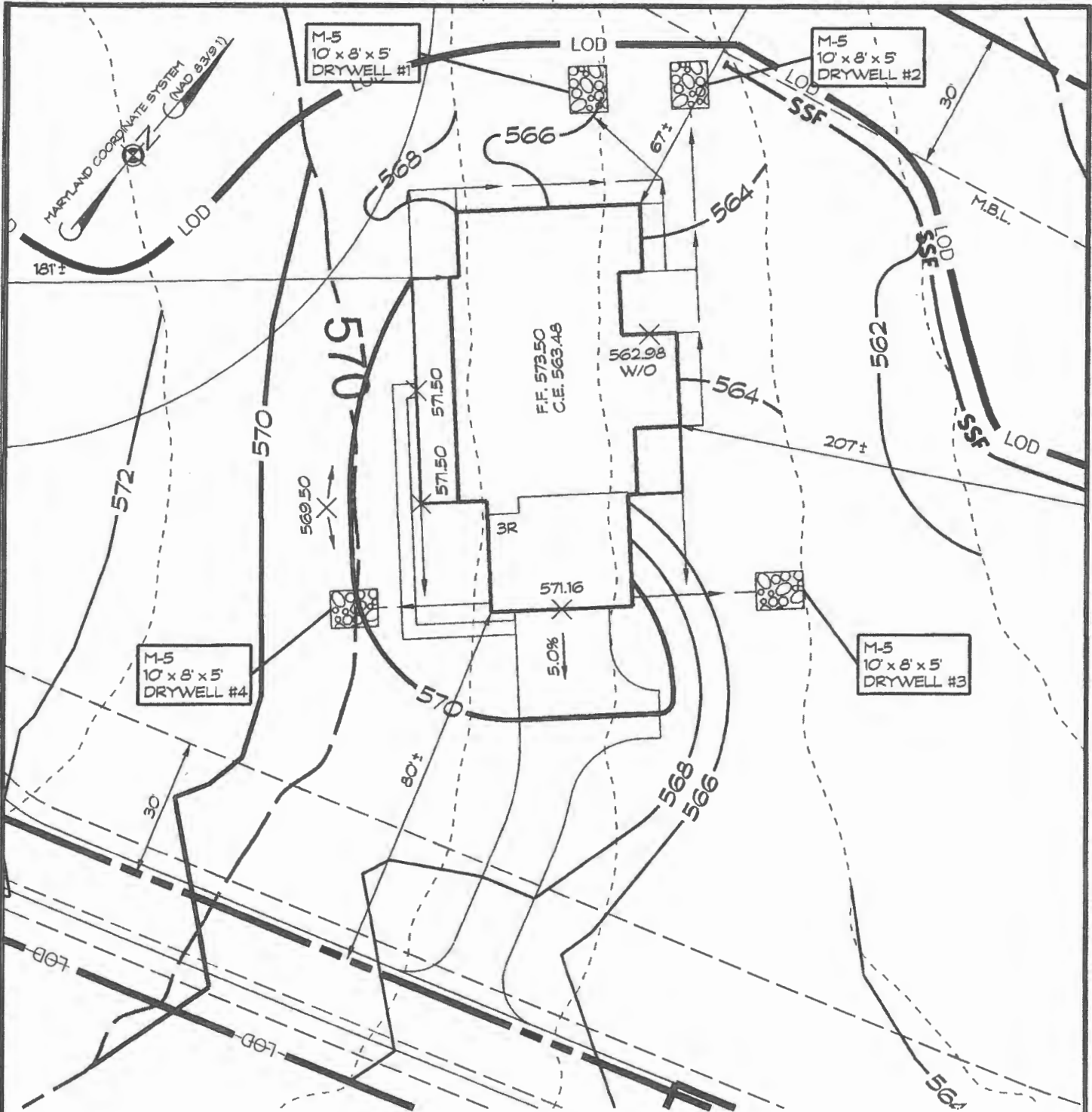
**PLOT PLAN - LOT 1
SQUARE WOODS**

3347 JENNINGS CHAPEL ROAD
TAX MAP: 20 * BLOCK: 4 * PARCEL: 140
4TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND



DRAWN BY: BH
DESIGN BY: BH
REVIEW BY:
DATE: 5-22-19
SCALE: AS SHOWN
JOB NO: 2019102
SHEET: 1 OF 2

439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791



PLAN
SCALE: 1" = 30'

**PLOT PLAN - LOT 1
SQUARE WOODS**

TAX MAP: 20 • BLOCK: 4 • PARCEL: 140
4TH ELECTION DISTRICT • HOWARD COUNTY, MARYLAND

EXISTING GRADES SHOULD BE FIELD VERIFIED WHEN HOUSE STAKEOUT IS DONE.

DATE	REVISIONS

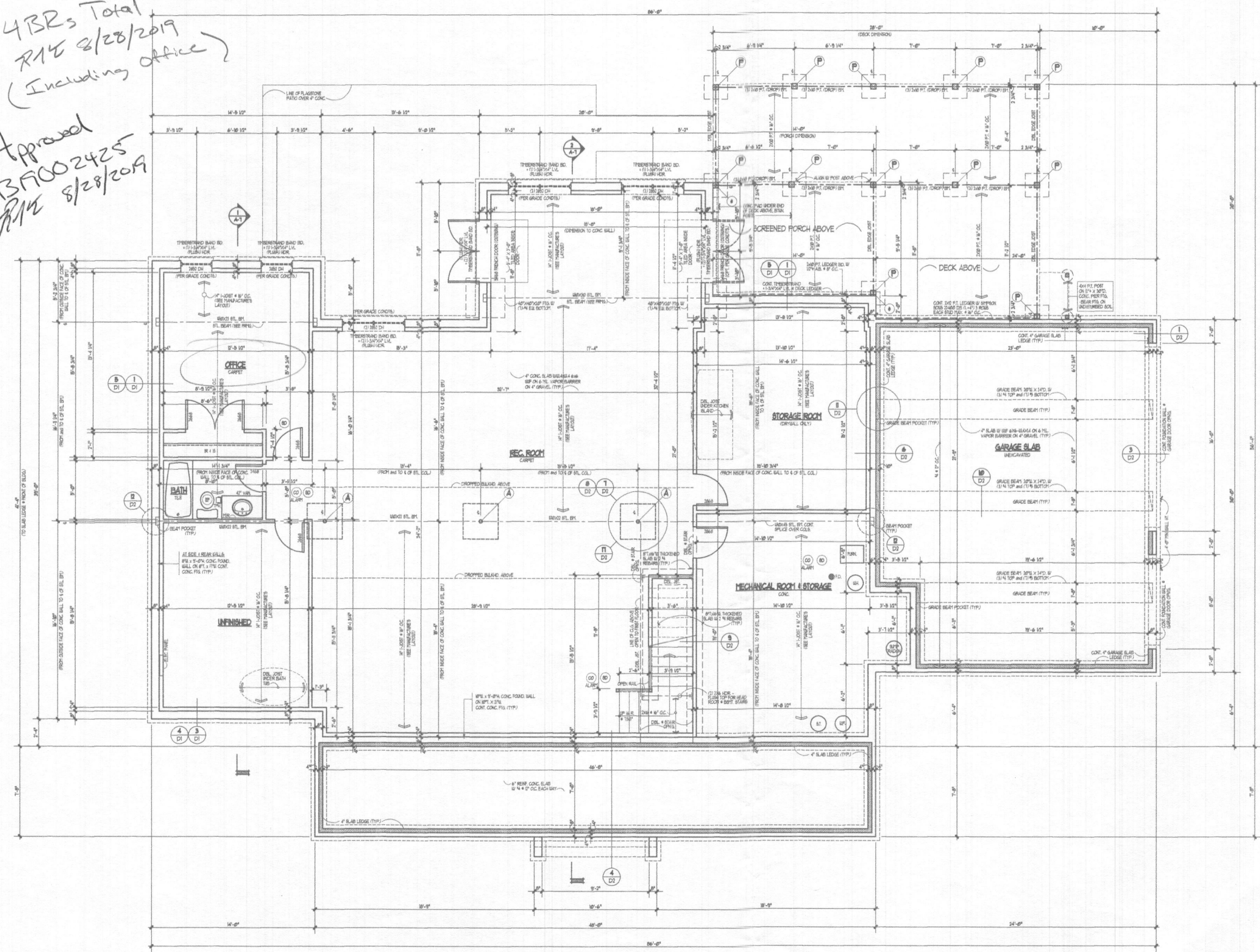


439 East Main Street Westminster, MD 21157-5539
(410) 848-1790 FAX (410) 848-1791

DRAWN BY: BH
DESIGN BY: BH
REVIEW BY:
DATE: 5-22-19
SCALE: AS SHOWN
JOB NO: 2019102
SHEET: 2 OF 2

4 BRs Total
 R14 8/28/2019
 (Including office)

Approved
 BFCO 2425
 R14 8/28/2019



FOUNDATION and BASEMENT PLAN
 2643 SQ. FT. SCALE: 1/4" = 1'-0"

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- CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL BUILDING CODES AND ORDINANCES. CSE DESIGNING, INC. MAY NOT BE HELD RESPONSIBLE FOR THE SITE CONDITIONS OR FOR THE USE OF THESE DRAWINGS DURING CONSTRUCTION.
- THE OWNER AND BUILDER AGREE TO HOLD THE ARCHITECT OF THESE DRAWINGS HARMLESS FOR ANY AND ALL ERRORS, OMISSIONS OR OTHER PROBLEMS ARISING FROM THE USE OF THESE PLANS.
- THESE DRAWINGS ARE ABSTRACTED AND ARE NOT INTENDED TO SPECIFY ALL STRUCTURAL DETAILS, MATERIAL SIZES OR CONDITIONS NECESSARY FOR CONSTRUCTION. THE BUILDER AND/OR THE OWNER WILL MAKE ANY AND ALL DECISIONS AND SELECTIONS NECESSARY FOR CONSTRUCTION.
- EXACT SIZE AND REINFORCEMENT OF ALL CONCRETE FOOTINGS MUST BE DETERMINED BY LOCAL SOIL CONDITIONS AND ACCEPTABLE PRACTICES OF CONSTRUCTION. VERIFY DEPTH WITH LOCAL ENGINEER.
- VERIFY ALL STRUCTURAL ELEMENTS FOR DESIGN AND SIZE WITH LOCAL ENGINEER AND BUILDING OFFICIALS.
- BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW FROST-LINE VERIFY DEPTH.
- ALL CONSTRUCTION IS TO COMPLY WITH THE LATEST EDITIONS OF THE APPLICABLE BUILDING CODES AND ALL OTHER APPLICABLE REGULATIONS (FEDERAL, STATE AND LOCAL).

PLAN and FRAMING NOTES:
 REFERENCED PLEASE SEE ALL PLAN and FRAMING NOTES ON SHEET A-0 FOR ADDITIONAL CODE COMPLIANCE INFORMATION NOT SHOWN ON THIS SHEET. THE NOTES ON SHEET A-0 ARE APPLICABLE TO THIS SHEET IN CONNECTION WITH THESE DRAWINGS TO INSURE CODE COMPLIANCE.

FRAMING NOTES:
 (1) USE 2x4 JACK STUDS BEHIND ALL INTERIOR DOOR & WINDOW OPENINGS UNLESS OTHERWISE NOTED.
 (2) PROTECTIVE CORNING ALL POSTS TO TRANSOM WALL OR BEARING BEAMS BELOW AND USE SOLID BLOCKING AT FLOOR JOINTS BETWEEN POSTS.
 (3) ALL METAL HANGERS SHALL BE DESIGNED AND SPECIFIED BY FLOOR JOINT MANUFACTURERS.
 (4) ALL HELPFULS & STUD POSTS SHALL BE NAILLED.
 (5) ALL JOINT MANUFACTURERS SIGNED & SEALED FLOOR FRAMING PLANS SHALL BE PROVIDED TO INSPECTOR AT FIELD INSPECTION.

FLOOR JOINT MANUFACTURER NOTES:
 (1) FLOOR FRAMING SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY CSE DESIGNING, INC. PRIOR TO FABRICATION, PANELIZATION AND ANY CONSTRUCTION.
 (2) ALL GRENIER JOISTS SHALL BE DESIGNED AND DIMENSIONED BY THE FLOOR JOINT MANUFACTURERS.
 (3) JOIST MANUFACTURERS SIGNED & SEALED FLOOR FRAMING PLANS SHALL BE PROVIDED TO INSPECTOR AT FIELD INSPECTION.

MANUFACTURED ROOF TRUSS NOTES:
 1. ROOF FRAMING SHOP DRAWINGS ARE TO BE SUBMITTED TO AND APPROVED BY CSE DESIGNING, INC. PRIOR TO FABRICATION, PANELIZATION AND ANY CONSTRUCTION.
 2. ALL GRENIER TRUSSES SHALL BE DESIGNED AND DIMENSIONED BY THE ROOF TRUSS MANUFACTURERS.
 3. TRUSS MANUFACTURERS SIGNED & SEALED ROOF FRAMING PLANS SHALL BE PROVIDED TO INSPECTOR AT THE FIELD INSPECTION.

- (A) 3-1/2" STRL. STEEL PIPE COLUMN (SCHEDULE 40) 18,000# LOAD - 48"x48"x30" CONC. FIG.
- (P) 6x6 PT. POST ON 24"x24"x36" CONC. PIER FIG. TYPICAL BEAM/POST CONNECTOR "LPC6" and POST/FIG. CONNECTOR "ME466".
- (4) BOTTOM FIGS. ALIGN W/ BASEMENT FIG. ELEVATION.

ALL FOOTINGS DESIGNED FOR 2000 PSF MINIMUM SOIL BEARING.

Date: **June 17, 2019**

Revisions:

Product Name: **JMB Homes**

The Marsh Residence

Sheet Title: **Basement & Foundation Plan**

CSE Designs, Inc.
 7271 Acton Walk Way,
 Suite 110,
 Charlottesville, Virginia 22916
 Ph: 703-969-2878
 Fax: 703-754-9871

CSE Designs

Scale: **A-1**

Revisions

JMB Homes
The Marsh Residence

Sheet Title

First Floor Plan

CSE Designs, Inc.
7371 Atlas Walk Way,
Suite 110,
Gainesville, Virginia 20155
Ph: 703-668-2876
Fax: 703-754-8517



Scale

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- THE OWNER AND BUILDER AGREE TO HOLD THE AUTHOR OF THESE DRAWINGS HARMLESS FOR ANY AND ALL ERRORS, OMISSIONS OR OTHER PROBLEMS ARISING FROM THE USE OF THESE PLANS.
- THESE DRAWINGS ARE PRELIMINARY AND ARE NOT INTENDED TO SPECIFY ALL STRUCTURAL DETAILS, MATERIAL SIZES OR CONDITIONS NECESSARY FOR CONSTRUCTION. THE BUILDER AND/OR THE OWNER WILL MAKE ANY AND ALL DECISIONS AND SELECTIONS NECESSARY FOR CONSTRUCTION.
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- VERIFY ALL STRUCTURAL ELEMENTS FOR DESIGN AND SIZE WITH LOCAL ENGINEER AND BUILDING OFFICIALS.
- BOTTOM OF ALL FOOTINGS SHALL EXTEND BEYOND PROPOSED VERIFY DEPTH.
- ALL CONSTRUCTION IS TO COMPLY WITH THE LATEST EDITIONS OF THE APPLICABLE BUILDING CODES AND ALL OTHER APPLICABLE REGULATIONS, FEDERAL, STATE AND LOCAL.

PLAN AND FRAMING NOTES:
REFERENCED PLEASE SEE ALL PLAN AND FRAMING NOTES ON SHEET A-4 FOR ADDITIONAL CODE COMPLIANCE INFORMATION NOT SHOWN ON THIS SHEET. THE NOTES ON SHEET A-4 AS APPLICABLE MUST BE USED IN CONJUNCTION WITH THESE DRAWINGS TO INSURE CODE COMPLIANCE.

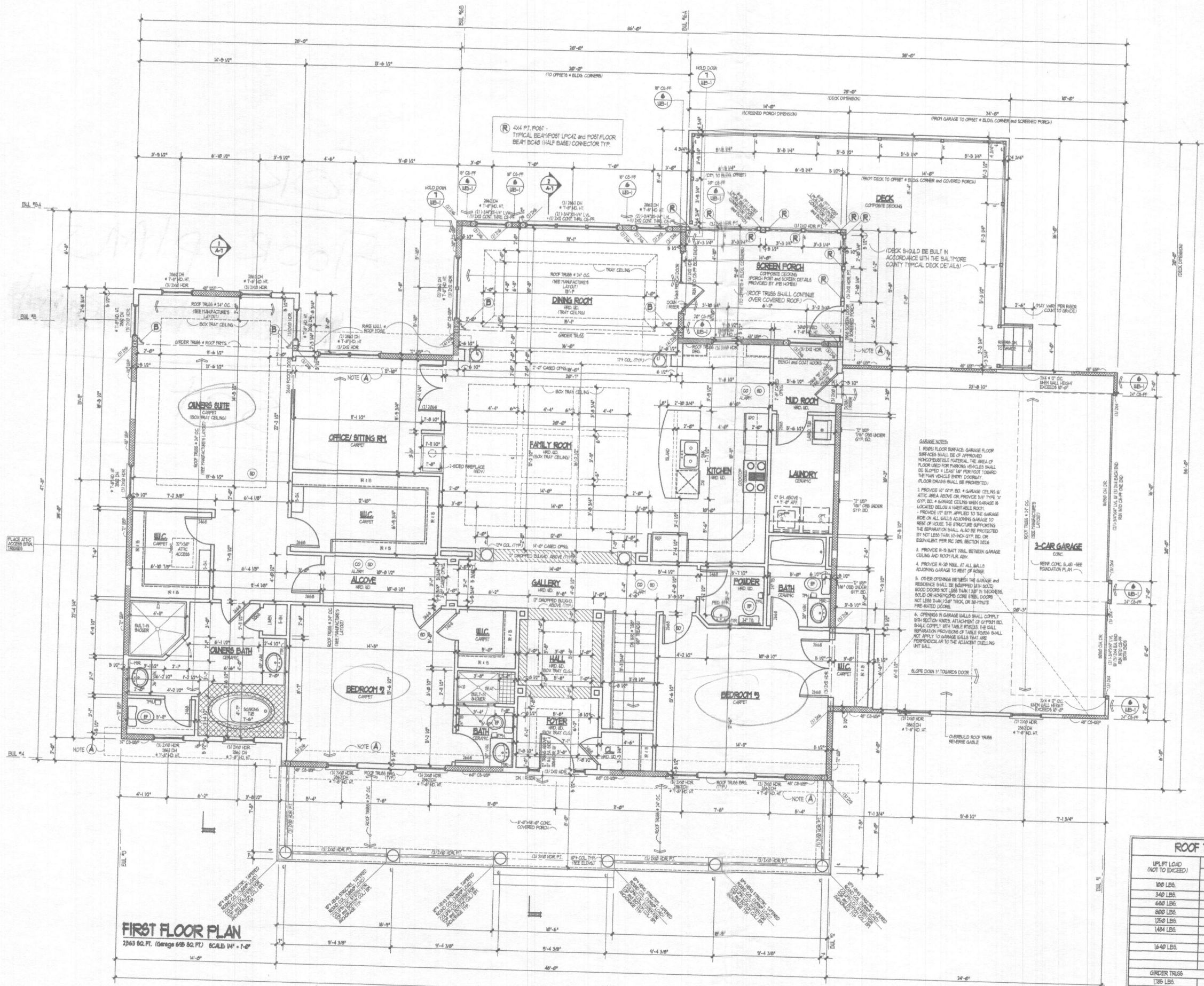
FRAMING NOTES:
(1) USE 12M JACK STUDS BEHIND ALL OUTSIDE DOOR & WINDOW OPENINGS UNLESS OTHERWISE NOTED.
(2) FLOOR JOISTS CONTINUE ALL POINTS TO FOUNDATION WALL OR BEARING WALLS BELOW AND USE SOLID FLOORING AT FLOOR SYSTEM BETWEEN POINTS.
(3) ALL METAL HANGERS SHALL BE DESIGNED AND SPECIFIED BY FLOOR JOIST MANUFACTURER.
(4) ALL MULTIPLE STUD POINTS SHALL BE NAILED.
(5) JOIST MANUFACTURER SIGNED & SEALED FLOOR FRAMING PLANS SHALL BE PROVIDED TO INSPECTOR AT FIELD INSPECTION.

FLOOR JOIST MANUFACTURER NOTES:
(1) FLOOR FRAMING SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY CSE DESIGN, INC. PRIOR TO FABRICATION, PANELIZATION AND ANY CONSTRUCTION.
(2) ALL ORDER JOISTS SHALL BE DESIGNED AND ENGINEERED BY THE FLOOR JOIST MANUFACTURER.
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MANUFACTURED ROOF TRUSS NOTES:
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(2) ALL ORDER TRUSSES SHALL BE DESIGNED AND ENGINEERED BY THE ROOF TRUSS MANUFACTURER.
(3) TRUSS MANUFACTURER SIGNED & SEALED ROOF FRAMING PLANS SHALL BE PROVIDED TO INSPECTOR AT TIME OF FIELD INSPECTION.

NOTE (A)
SPRINKLER 1" RIGID BILL PLATE TO GRID CONNECTOR STARTING @ BOTH CORNERS PLACE 3 CONNECTORS @ 3" O.C. BALANCE SPACE @ 1" O.C. (PLACE ONLY ON CONTINUOUS STUDS THAT EXTEND FROM 2nd FLOOR PLATE TO DOUBLE TOP PLATE)

NOTE (B)
SEE HOLD DOWN SCHEDULE



ROOF TRUSS HOLD-DOWN STRAP SCHEDULE

UPLIFT LOAD (NOT TO EXCEED)	FASTENER (8" MIN OR EQUAL)	
	ITEM #	TO RAFTERS/ TRUSSES TO PLATES/ STUDS
100 LBS.		2 - 16d TOE NAILS - PER CODE
340 LBS.	(1)H2A	5 - 8d
680 LBS.	(2)H2A	10 - 8d
800 LBS.	HT90	1 - 10d
1250 LBS.	(2)L192	2 - 10d
1484 LBS.	(2)H2A	16 - 8d X 1-1/2
1648 LBS.	(2)HT92	TO TRUSSES TO WALL FRAMING
		4 - 10d
GIRDER TRUSS		
1706 LBS.	LG72 (2-PLY)	16 - 16d
2655 LBS.	LG75 (3-PLY)	2 - 8d6 1/2x3
2925 LBS.	LG74 (4-PLY)	2 - 8d6 1/2x3
		30 - 16d

USE 16d BANKERS
* LOADS MODIFIED FOR GFRUCE FINE FRAMING MATERIAL

FIRST FLOOR PLAN
7363 SQ. FT. (Garage @ 925 SQ. FT.) SCALE 1/4" = 1'-0"

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Date
June 17, 2011

- 1.** CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL BUILDING CODES AND ORDINANCES. CSE Designs, Inc. MAY NOT BE HELD RESPONSIBLE FOR THE SITE CONDITIONS OR FOR THE USE OF THESE DRAWINGS DURING CONSTRUCTION.
- 2.** THE OWNER AND BUILDER AGREE TO HOLD THE ARCHITECT OF THESE DRAWINGS HARMLESS FOR ANY AND ALL ERRORS, OMISSIONS OR OTHER PROBLEMS ARISING FROM THE USE OF THESE PLANS.
- 3.** THESE DRAWINGS ARE PREPARED AND ARE NOT INTENDED TO SPECIFY ALL STRUCTURAL DETAILS, MATERIALS, SIZES OR CONDITIONS NECESSARY FOR CONSTRUCTION. THE BUILDER AND/OR THE OWNER WILL MAKE ANY AND ALL DECISIONS AND SELECTIONS NECESSARY FOR CONSTRUCTION.
- 4.** EXACT SIZE AND REINFORCEMENT OF ALL CONCRETE FOOTINGS MUST BE DETERMINED BY LOCAL BOI, CONDITIONS AND ACCEPTABLE PRACTICES OF CONSTRUCTION. VERIFY DEPTH WITH LOCAL INSURER.
- 5.** VERIFY ALL STRUCTURAL ELEMENTS FOR DESIGN AND SIZE WITH LOCAL ENGINEER AND BUILDING OFFICIAL.
- 6.** BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW FINISH LINE VERIFY DEPTH.
- 7.** ALL CONSTRUCTION IS TO COMPLY WITH THE LATEST EDITIONS OF THE APPLICABLE BUILDING CODES AND ALL OTHER APPLICABLE REGULATIONS, FEDERAL, STATE AND LOCAL.

PLAN AND FRAMING NOTES:
 1. REFER TO ALL PLAN AND FRAMING NOTES ON SHEET A-2 FOR ADDITIONAL CODE COMPLIANCE INFORMATION NOT SHOWN ON THIS SHEET. THE NOTES ON SHEET A-2 (AS APPLICABLE) MUST BE USED IN CONJUNCTION WITH THESE DRAWINGS TO INSURE CODE COMPLIANCE.

- FRAMING NOTES:**
- (1) USE 2x4 JACK STUDS
 - (2) REINFORCE ALL GROUND FLOOR UNFINISHED OPENINGS UNLESS OTHERWISE NOTED
 - (3) FLOOR JOIST CONTINUE ALL POINTS TO FOUNDATION WALL OR BEARING BEAMS BELOW AND USE SOLID BLOCKING AT FLOOR FINISH BETWEEN POORS
 - (4) ALL METAL HANGERS SHALL BE DESIGNED AND SPECIFIED BY FLOOR JOIST MANUFACTURERS
 - (5) ALL HANGERS TO STUD POORS SHALL BE NAILED
 - (6) JOIST MANUFACTURERS SIGNED & SEALED FLOOR FRAMING PLANS SHALL BE PROVIDED TO INSPECTOR AT FIELD INSPECTION

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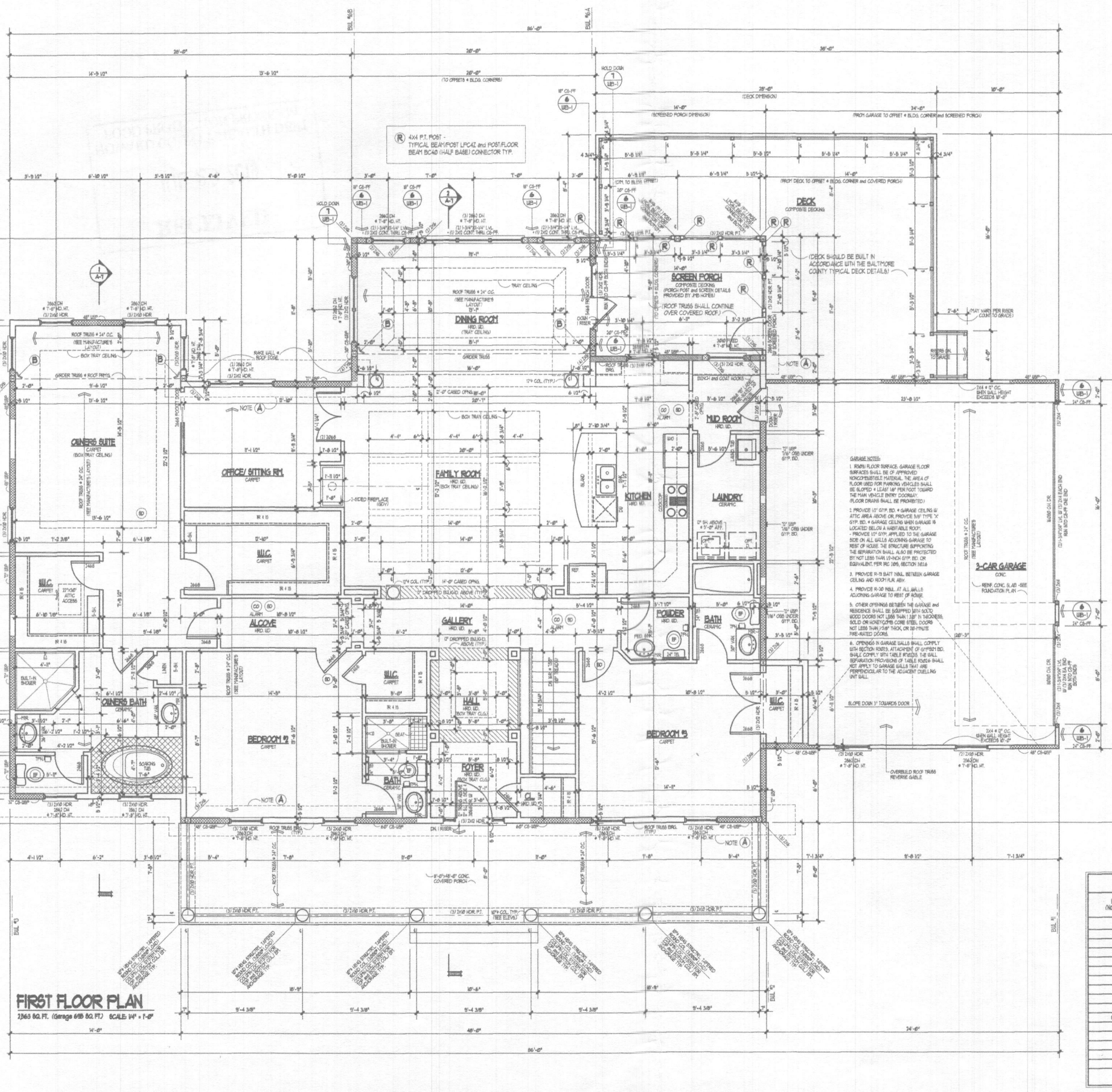
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 - (3) TRUSS MANUFACTURERS SIGNED & SEALED ROOF FRAMING PLANS SHALL BE PROVIDED TO INSPECTOR AT FIELD INSPECTION

NOTE (A)
 SPS-PON 175P SILL PLATE TO STUD CONNECTOR, STARTING AT BOTH CORNERS, PLACE 3 CONNECTORS @ 3'-0" O.C. BALANCE SPACE @ 48" O.C. (PLACE ONLY ON CONTIGUOUS STUDS THAT EXTEND FROM 2nd FLOOR PLATE TO DOUBLE TOP PLATES)

NOTE (B)
 SEE HOLD-DOWN SCHEDULE

UP/LIFT LOAD (NOT TO EXCEED)	FASTENER (SPS-PON OR EQUAL)		
	ITEM #	TO RAFTERS/ TRUSS	TO PLATES/ STUDS
100 LBS.		3 - 16d TOE NAILS - PER CODE	
340 LBS.	H2BA	5 - 8d	5 - 8d
680 LBS.	(2) H2BA	10 - 8d	10 - 8d
800 LBS.	M150	7 - 10d	7 - 10d
1260 LBS.	(2) L160	11 - 10d	11 - 10d
1480 LBS.	(2) H4BA	16 - 8d X 1-1/2	16 - 8d X 1-1/2
1640 LBS.	(2) M150	TO WALL FRAMING	TO TRUSS
		14 - 10d	14 - 10d
GRINDER TRUSS			
1700 LBS.	L671 (2-PLY)	16 - 16d	14 - 16d
2625 LBS.	L673 (3-PLY)	18 - 16d X 1-1/2	16 - 16d
2925 LBS.	L674 (4-PLY)	18 - 16d X 1-1/2	16 - 16d
		18 - 16d X 1-1/2	16 - 16d
USE 16d BANKERS			

* LOADS MODIFIED FOR SPRUCE PINE FRAMING MATERIAL

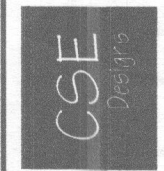


FIRST FLOOR PLAN
 2363 SQ. FT. (Garage 609 SQ. FT.) SCALE: 1/4" = 1'-0"

JMB Homes
The Marsh Residence

First Floor Plan

CSE Designs, Inc.
 7971 Atlas Walk Way,
 Suite 110,
 Gainesville, Virginia 20155
 Ph: 703-969-2575
 Fax: 703-754-9517



Sheet Title

Drawing No.
A-2

JMB HOMES

UNIQUE HOME BUILDER

July 16, 2019- Revised June 18, 2019

Department of Licenses, Inspections and Permits
3430 Court House Drive
Ellicott city Maryland 21043

Attention: Robert J. Frances, P.E. Director

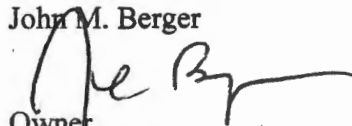
To whom it may concern;

I would like to attach this request to our Building Permit Submission as suggested by the Chief Building Inspection for Howard County for review under the OLDER adopted code which coincides with my plan sets that drawn to IRC 2015. As a result of process changes and untimely delays in securing the required "SPEED MEMO" associated with my grading plan I was unable to submission prior to the change-over date of July 15th. In addition after acquiring our "Speed Memo" with the direct Assistance from Chad Edmonson we returned to Submit our Application only to be told by zoning that they do not know what a "Speed Memo" is and submission requires "APPROVED" Redline drawing before the submission can taken in. For the Record the Record the confusion associated with these processes as delayed permit and on site construction almost 4 weeks at this point. Any assistance in getting this permit Application "APPROVED" once and if we ever get it submitted would be greatly appreciated.

If needed I can present evidence of untimely delays associated to the "NEW" guidelines requested associated to a "SPEED MEMO" and the confusion and lack direction and cooperation associated to all procedures allowing me to make submission prior to the above date. This request is an effort to avoid future unaccounted for delays and expenses as a result (Plan Update and code related upcharges).

Thank you for your consideration,

Sincerely,
John M. Berger



Owner
JMB Homes
MD. Builder #6141
240-372-3571

DEPARTMENT OF INSPECTIONS,
 LICENSES & PERMITS
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MD 21043
 PERMITS (410) 313-2455
 INSPECTIONS (410) 313-1850

HOWARD COUNTY
 RESIDENTIAL
 HEATING-VENTILATION-AIR
 CONDITIONING AND
 REFRIGERATION PERMIT
 APPLICATION

HVACR PERMIT # M19000882
 BUILDING PERMIT #
B19002425

BUILDING ADDRESS: 3347 JENNINGS CHAPEL Rd. SUITE/APT:
WOODBINE, MD, 21797
 SUBDIVISION:
 CENSUS TRACT: SECTION: AREA:
 LOT: TAX MAP: PARCEL:
 BLOCK: ZONE:
 PROPERTY ID: MAP COORDINATES:
 TYPE OF IMPROVEMENTS: USE:

OWNERS NAME: CASASCO JENNIFER K
 ADDRESS: 3365 JENNINGS CHAPEL Rd.
 CITY: WOODBINE
 STATE: MD. ZIP CODE: 21797
 HOME PHONE: 443-8460437 WORK PHONE:

CHECK ONE	HOW MANY
SINGLE FAMILY DWELLING <input checked="" type="checkbox"/>	<u>1</u> ZONES
SINGLE FAMILY TOWNHOUSE <input type="checkbox"/>	___ ZONES
MULTI-FAMILY / HOTEL/MOTEL <input type="checkbox"/>	___ ROOMS
ASSISTED LIVING HOMES (16 OR FEWER RESIDENTS) <input type="checkbox"/>	___ ROOMS

COMPANY NAME: WATERVALE HEATING & A/C.
 LICENSEE NAME: Joseph F. Opdyke
 ADDRESS: 2116 WATERVALE Rd.
 CITY: FALLSTON
 STATE: MD. ZIP CODE: 21047
 PHONE: 410-899-0292 HVACR LICENSE NO: 7629

- New**
- Heating and Air Conditioning
 - Geo Thermal System
 - Heating System Only
 - Ductless Mini Splits
 - Other Work (Describe):
 - Thru The Wall Systems
- Replacement**
- Heating
 - Air Conditioning
 - Heating and Air Conditioning
- Additions and Alterations**
- Heating
 - Air Conditioning
 - Heating and Air Conditioning
- 1-4 TON
 NDV0495101CR0BN
 WATERVALE*

****Replacement Geo Thermal Systems are not required; However, if a tax credit is being sought a permit is required****

Zones

Permit Fee = # of Zones x \$40 = 40
 Technology Fee (10% of Permit Fee) = 4
 Plus Application Fee \$50.00
 Total Fees Due = 940

Rooms

Permit Fee = # of Rooms x \$80 = _____
 Technology Fee (10% of Permit Fee) = _____
 Plus Application Fee \$50 \$50.00
 Total Fees Due = _____

I HAVE CAREFULLY EXAMINED AND READ THIS APPLICATION AND KNOW IT IS TRUE AND CORRECT. THE WORK DESCRIBED HEREIN WILL BE PERFORMED BY A STATE HVACR LICENSED PERSON(S), AND ALL WORK WILL BE PERFORMED IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS OF HOWARD COUNTY THE STATE OF MARYLAND.

SIGNATURE OF LICENSEE: Joseph F. Opdyke DATE: 10-9-19
 PRINT NAME OF LICENSEE: Joseph F. Opdyke
 Email Address: watervalegeo@gmail.com

Validation

Check Number: 258711
 Cash: _____
 Receipt Number: _____

Approved Septic System Plan
 Howard County Health Department

RECEIVED

Make check payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY

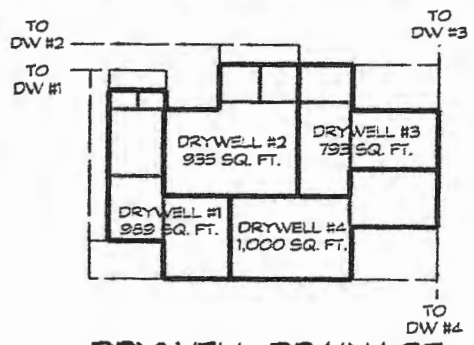
Signature _____ Date _____
 LICENSES & PERMITS DIVISION

* Horizontal Loops

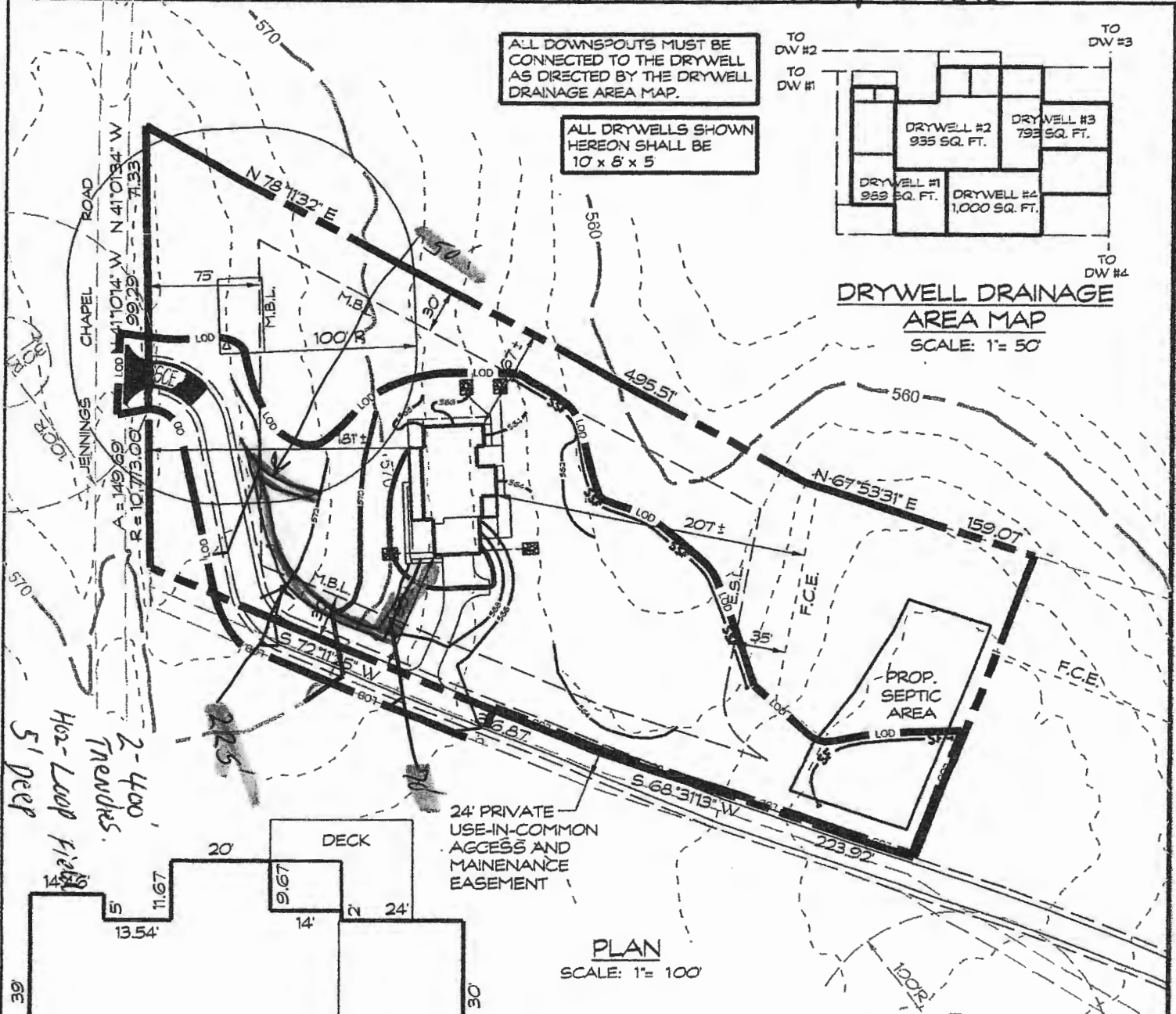
KL19000882

ALL DOWNSPOUTS MUST BE CONNECTED TO THE DRYWELL AS DIRECTED BY THE DRYWELL DRAINAGE AREA MAP.

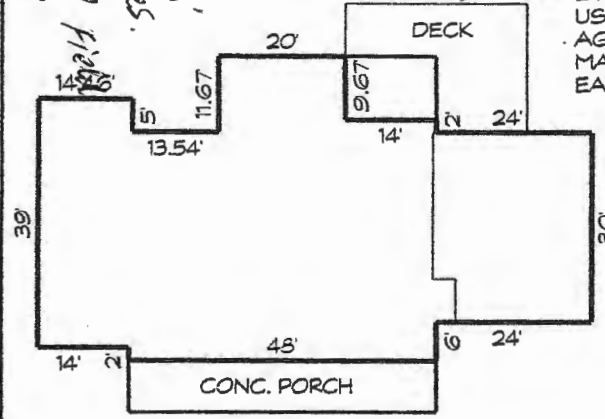
ALL DRYWELLS SHOWN HEREON SHALL BE 10' x 6' x 5'



DRYWELL DRAINAGE AREA MAP
SCALE: 1" = 50'



5' Deep
High-Loop Pile
2-400
Trenches



HOUSE DETAIL
SCALE: 1" = 30'

BUILDER TO VERIFY AVAILABILITY OF BASEMENT SEWER SERVICE PRIOR TO DWELLING STAKEOUT.

THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HERE ON.

Carroll Land Services, Inc.
CARROLL LAND SERVICES, INC.

5/30/19
DATE

EXISTING GRADES SHOULD BE FIELD VERIFIED WHEN HOUSE STAKEOUT IS DONE.

DATE	REVISIONS

L.O.D. - DENOTES LIMIT OF DISTURBANCE TOTAL AREA = 79,237 SQ. FT.

SEDIMENT AND EROSION CONTROL SHOWN HEREON FROM APPROVED PLAN FOR SQUARE WOODS LOTS 1 THRU 3 F-18-021

SEE SHEET 2 OF 2 FOR DETAILED GRADING PLAN

**PLOT PLAN - LOT 1
SQUARE WOODS
3347 JENNINGS CHAPEL ROAD**

TAX MAP: 20 * BLOCK: 4 * PARCEL: 140
4TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND



439 East Main Street Westminster, MD 21157-5539
(410) 845-1790 FAX (410) 845-1791

DRAWN BY: BH
DESIGN BY: BH
REVIEW BY:
DATE: 5-22-19
SCALE: AS SHOWN
JOB NO: 2019102
SHEET: 1 OF 2

M1900088d

*JMB Homes
HVAC Load Calculations*

for

Casalo Jennifer
3347 Jennings Chapel, Rd.
Woodbine, Md. 21797



RHVAC RESIDENTIAL
HVAC LOADS

Prepared By:

Watervale Heating & A.C.
2116 Watervale, Rd.
Fallston, Md. 21047
410-879-0292
Wednesday, October 09, 2019



Project Report

Project Title: JMB Homes
 Project Date: Wednesday, March 13, 2019
 Client Name: Casalo Jennifer
 Client Address: 3347 Jennings Chapel, Rd.
 Client City: Woodbine, Md. 21797
 Company Name: Watervale Heating & A.C.
 Company Address: 2116 Watervale, Rd.
 Company City: Fallston, Md. 21047
 Company Phone: 410-879-0292
 Company Fax: 410-803-0223

Reference City: Baltimore, Maryland
 Daily Temperature Range: Medium
 Latitude: 39 Degrees
 Elevation: 148 ft.
 Altitude Factor: 0.995
 Elevation Sensible Adj. Factor: 1.000
 Elevation Total Adj. Factor: 1.000
 Elevation Heating Adj. Factor: 1.000
 Elevation Heating Adj. Factor: 1.000

	Outdoor Dry Bulb	Outdoor Wet Bulb	Indoor Rel.Hum	Indoor Dry Bulb	Grains Difference
Winter:	5	0	30	72	29
Summer:	95	75	50	75	34

Total Building Supply CFM:	1,452	CFM Per Square ft.:	0.284
Square ft. of Room Area:	5,120	Square ft. Per Ton:	1,450
Volume (ft ³) of Cond. Space:	46,080	Air Turnover Rate (per hour):	1.9

Total Heating Required With Outside Air:	39,267 Btuh	39.267 MBH
Total Sensible Gain:	31,774 Btuh	94 %
Total Latent Gain:	1,904 Btuh	6 %
Total Cooling Required With Outside Air:	33,678 Btuh	2.81 Tons (Based On Sensible + Latent)
		3.53 Tons (Based On 75% Sensible Capacity)

Calculations are based on 8th edition of ACCA Manual J.
 All computed results are estimates as building use and weather may vary.
 Be sure to select a unit that meets both sensible and latent loads.

Load Preview Report

Scope	Has AED	Net Ton	Rec Ton	ft ² /Ton	Area	Sen Gain	Lat Gain	Net Gain	Sen Loss	Sys Htg CFM	Sys Ctg CFM	Sys Act CFM	Duct Size
Building		2.81	3.53	1,450	5,120	31,774	1,904	33,678	39,267	513	1,452	1,452	
System 1	Yes	2.81	3.53	1,450	5,120	31,774	1,904	33,678	39,267	513	1,452	1,452	14x17
Zone 1					2,560	6,785	370	7,155	14,100	184	310	310	8x8
1-Basement					2,560	6,785	370	7,155	14,100	184	310	310	3-6
Zone 2					2,560	27,947	1,534	29,481	25,167	329	1,277	1,277	12x18
2-First Floor					2,560	27,947	1,534	29,481	25,167	329	1,277	1,277	12-6
Sum of room airflows may be greater than system airflow because system has multiple zones.													

Detailed Room Loads - Room 1 - Basement (Peak Fenestration Gain Procedure)

Room is in zone 1, which peaks at 10 am

Calculation Mode:	Htg. & clg.	Occurrences:	1
Room Length:	64.0 ft.	System Number:	1
Room Width:	40.0 ft.	Zone Number:	1
Area:	2,560.0 sq.ft.	Supply Air:	310 CFM
Ceiling Height:	9.0 ft.	Supply Air Changes:	0.8 AC/hr
Volume:	23,040.0 cu.ft.	Required Vent.:	0 CFM
Number of Registers:	3	Actual Winter Vent.:	0 CFM
Runout Air:	0 CFM	Percent of Supply.:	0 %
Runout Duct Size:	6 in.	Actual Summer Vent.:	0 CFM
Runout Air Velocity:	526 ft./min.	Percent of Supply:	0 %
Runout Air Velocity:	526 ft./min.	Actual Winter Infil.:	29 CFM
Actual Loss:	0.177 in.wg./100 ft.	Actual Summer Infil.:	16 CFM

Item Description	Area Quantity	-U Value	Htg HTM	Sen Loss	Clg HTM	Lat Gain	Sen Gain
E -Wall-12E-0sw 64 X 9	522	0.068	4.6	2,378	1.5	0	795
N -Wall-15A19-0ocw-6 40 X 9	360	0.044	3.5	1,276	0.4	0	138
W -Wall-15A-20s3fc-4 64 X 9	576	0.045	2.9	1,693	0.4	0	216
S -Wall-15A-15sffc-2 40 X 9	360	0.042	3.5	1,258	0.7	0	253
E -Gls-3A-w-o shgc-0.61 0%S	54	0.530	35.5	1,918	93.2	0	5,033
Floor-21A-32 40 X 64	2560	0.020	1.3	3,430	0.0	0	0
Subtotals for Structure:				11,953		0	6,435
Infil.: Win.: 29.3, Sum.: 16.0	1,298		1.654	2,147	0.270	370	350
Room Totals:				14,100		370	6,785

Detailed Room Loads - Room 2 - First Floor (Peak Fenestration Gain Procedure)

Room is in zone 2, which peaks at 5 pm

Calculation Mode:	Htg. & clg.	Occurrences:	1
Room Length:	64.0 ft.	System Number:	1
Room Width:	40.0 ft.	Zone Number:	2
Area:	2,560.0 sq.ft.	Supply Air:	1,277 CFM
Ceiling Height:	9.0 ft.	Supply Air Changes:	3.3 AC/hr
Volume:	23,040.0 cu.ft.	Required Vent.:	0 CFM
Number of Registers:	12	Actual Winter Vent.:	0 CFM
Runout Air:	0 CFM	Percent of Supply:	0 %
Runout Duct Size:	6 in.	Actual Summer Vent.:	0 CFM
Runout Air Velocity:	542 ft./min.	Percent of Supply:	0 %
Runout Air Velocity:	542 ft./min.	Actual Winter Infil.:	42 CFM
Actual Loss:	0.187 in.wg./100 ft.	Actual Summer Infil.:	23 CFM

Item Description	Area Quantity	-U- Value	Htg HTM	Sen Loss	Clg HTM	Lat Gain	Sen Gain
E -Wall-12F-0sw 64 X 9	462	0.065	4.4	2,012	1.3	0	610
N -Wall-12F-0sw 40 X 9	318	0.065	4.4	1,385	1.3	0	420
W -Wall-12F-0sw 64 X 9	461	0.065	4.4	2,008	1.3	0	608
S -Wall-12F-0sw 40 X 9	318	0.065	4.4	1,385	1.3	0	420
S -Door-11J 6 X 7	42	0.600	40.2	1,688	18.6	0	781
N -Door-11J 6 X 7	42	0.600	40.2	1,688	18.6	0	781
E -Gls-3A-w-o shgc-0.61 0%S	114	0.530	35.5	4,048	43.3	0	4,937
W -Gls-3A-w-o shgc-0.61 0%S	115	0.530	35.5	4,084	107.1	0	12,312
UP-Ceil-16A-44 64 X 40	2560	0.022	1.5	3,773	1.7	0	4,224
Subtotals for Structure:				22,071		0	25,093
Infil.: Win.: 42.2, Sum.: 23.0	1,872		1.654	3,096	0.269	534	504
People: 200 lat/per, 230 sen/per:	5					1,000	1,150
Equipment:						0	1,200
Room Totals:				25,167		1,534	27,947



Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

DILP 2020 JAN 30 PM 2:45
Date Received: _____

Permit No.: B2000375

Building Address: 3347 JENNINGS CHAPEL ROAD
 City: WOODBINE State: MD Zip Code: 21797
 Suite/Apt. # _____ SDP/WP/BA #: _____
 Census Tract: _____ Subdivision: _____
 Section: _____ Area: _____ Lot: _____
 Tax Map: _____ Parcel: _____ Grid: _____
 Zoning: _____ Map Coordinates: _____ Lot Size: _____

Existing Use: SFD
 Proposed Use: SFD W/TANK
 Estimated Construction Cost: \$ 4000
 Description of Work: INSTALL A 1000 GAL UNDER GROUND PROPANE TANK
 Occupant/Tenant Name: _____
OWNER Was tenant
 space previously occupied? Yes No Contact Name: _____
 Address: _____ City: _____
 State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Property Owner's Name: STEVEN MARSH
 Address: 250 SOUTH RIVER LANDING ROAD
 City: EDGEWATER State: MD Zip Code: 21037
 Phone: _____ Fax: _____
 Email: _____
 Applicant's Name & Mailing Address, (If other than stated herein)
 Applicant's Name: APPLIED & APPROVED PERMITS
 Address: PO BOX 310
 City: PERRY HALL State: MD Zip Code: 21128
 Phone: 443-610-7514 Fax: _____
 Email: MICHELLE@APPLIEDANDAPPROVED.COM

Contractor Company: TEVIS OIL
 Contact Person: C NEVIN HAINES
 Address: 1618 N MAIN STREET
 City: HAMPSTEAD State: MD Zip Code: 21074
 License No.: 468
 Phone: 410-984-0399 Fax: _____
 Email: _____

Engineer/Architect Company: CONTRACTOR
 Responsible Design Prof.: _____
 Address: _____
 City: _____ State: _____ Zip Code: _____
 Phone: _____ Fax: _____
 Email: _____

Commercial Building Characteristics	Residential Building Characteristics
Height:	<input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories:	Depth Width
Gross area, sq. ft./floor:	1 st floor: _____ 2 nd floor: _____
Area of construction (sq. ft.):	Basement: <input type="checkbox"/> Finished Basement <input type="checkbox"/> Unfinished Basement <input type="checkbox"/> Crawl Space <input type="checkbox"/> Slab on Grade
Use group:	<input type="checkbox"/> Reinforced Concrete <input type="checkbox"/> Structural Steel <input type="checkbox"/> Masonry <input type="checkbox"/> Wood Frame <input type="checkbox"/> State Certified Modular
Construction type:	No. of Bedrooms: _____ Multi-family Dwelling No. of efficiency units: _____ No. of 1 BR units: _____ No. of 2 BR units: _____ No. of 3 BR units: _____ Other Structure: _____ Dimensions: _____
<input type="checkbox"/> Roadside Tree Project Permit <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Footings: _____ Roof: _____ <input type="checkbox"/> State Certified Modular <input type="checkbox"/> Manufactured Home

Utilities	
Electric:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Gas:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Water Supply	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Sewage Disposal	
<input type="checkbox"/> Public	
<input checked="" type="checkbox"/> Private	
Heating System	
<input type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other:	
Sprinkler System:	
<input type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number: _____	
Building Shell Permit Number: _____	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

MICHELLE CLANCY
 Applicant's Signature
MICHELLE@APPLIEDANDAPPROVED.COM
 Email Address
PERMITS
 Title/Company

MICHELLE CLANCY
 Print Name
1/30/2020
 Date
RECEIVED
JAN 30 2020
 LICENSES & PERMITS
 DIVISION

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
 PLEASE WRITE NEATLY & LEGIBLY
 -FOR OFFICE USE ONLY-

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>4/6/20</u>	<u>[Signature]</u>

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION
Front: _____
Rear: _____
Side: _____
Side St.: _____
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone: _____
SDP/Red-line approval date: _____

Filing Fee	\$ <u>110.00</u>
Permit Fee	\$
Tech Fee	\$
Excise Tax	\$
PSFS	\$
Guaranty Fund	\$
Add'l per Fee	\$
Total Fees	\$
Sub- Total Paid	\$
Balance Due	\$
Check	# <u>7473</u>

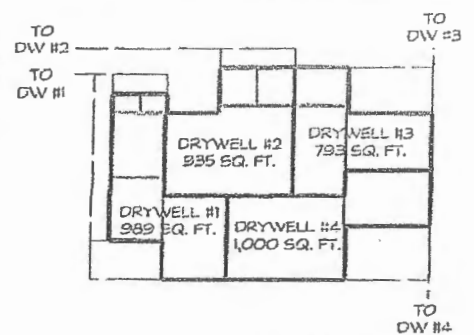
Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA

AS

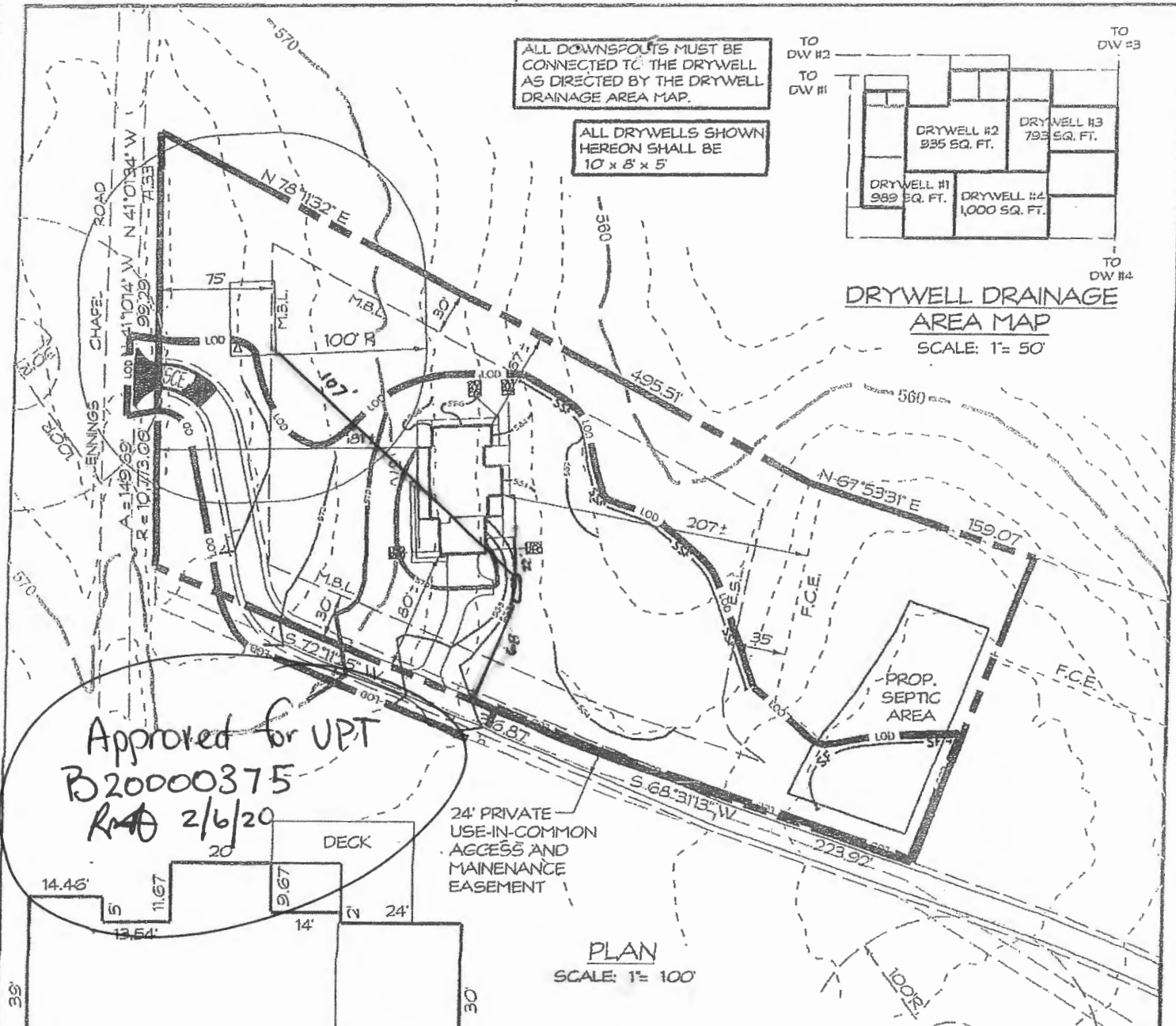
FSK APPLIED & APPROVED

ALL DOWNSPOUTS MUST BE CONNECTED TO THE DRYWELL AS DIRECTED BY THE DRYWELL DRAINAGE AREA MAP.

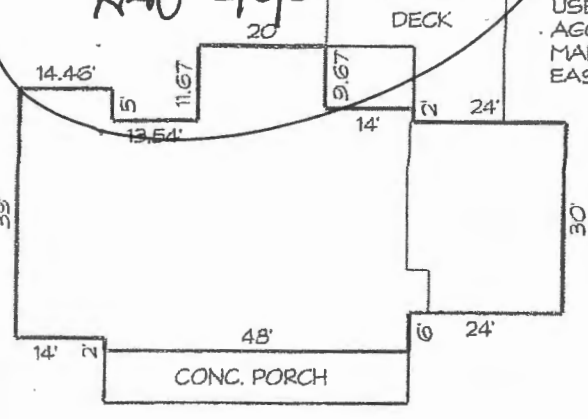
ALL DRYWELLS SHOWN HEREON SHALL BE 10' x 8' x 5'



DRYWELL DRAINAGE AREA MAP
SCALE: 1" = 50'



Approved for UPT
B20000375
RMA 2/6/20



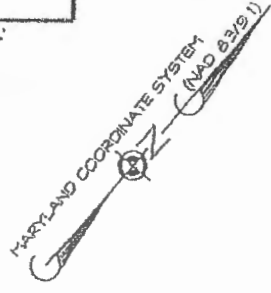
HOUSE DETAIL
SCALE: 1" = 30'

PLAN
SCALE: 1" = 100'

L.O.D. - DENOTES LIMIT OF DISTURBANCE TOTAL AREA = 79,237 SQ. FT.

SEDIMENT AND EROSION CONTROL SHOWN HEREON FROM APPROVED PLAN FOR SQUARE WOODS LOTS 1 THRU 3 F.18-021

SEE SHEET 2 OF 2 FOR DETAILED GRADING PLAN



PLOT PLAN - LOT 1
SQUARE WOODS
3347 JENNINGS CHAPEL ROAD

TAX MAP: 20 * BLOCK: 4 * PARCEL: 140
4TH ELECTION DISTRICT * HOWARD COUNTY, MARYLAND

BUILDER TO VERIFY AVAILABILITY OF BASEMENT SEWER SERVICE PRIOR TO DWELLING STAKEOUT.

THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HERE ON.

Carroll Land Services, Inc.
CARROLL LAND SERVICES, INC.

5/30/19
DATE

EXISTING GRADES SHOULD BE FIELD VERIFIED WHEN HOUSE STAKEOUT IS DONE.

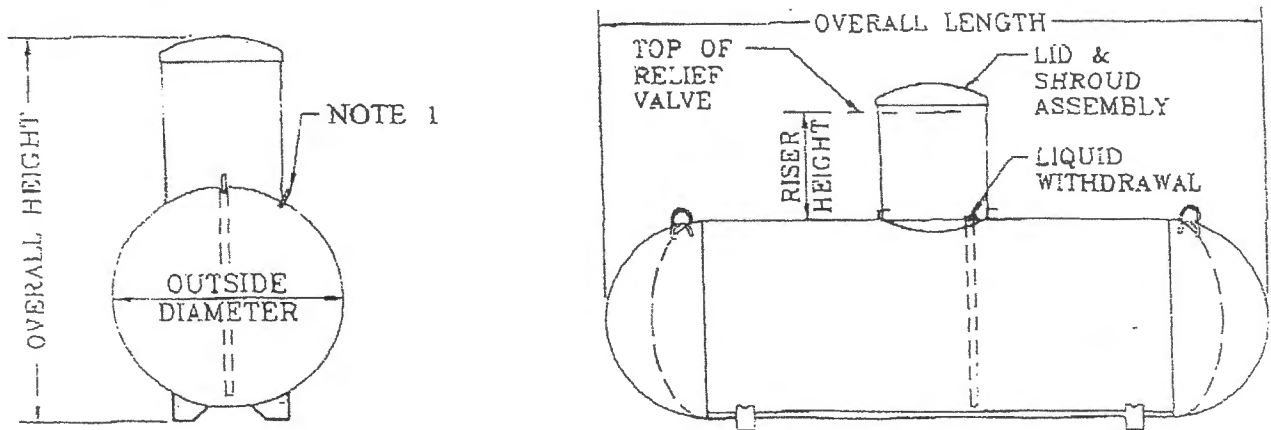
DATE	REVISIONS

439 East Main Street Westminster, MD 21157-5539
(410) 845-1790 FAX (410) 845-1791

DRAWN BY: BH
DESIGN BY: BH
REVIEW BY:
DATE: 5-22-19
SCALE: AS SHOWN
JOB NO: 2019102
SHEET: 1 OF 2

TRINITY INDUSTRIES, INC.

Underground Vessel



General Specifications

Conforms to the latest edition and addenda of the ASME, Section VIII, div.1 code for Pressure Vessels. Complies with NFPA 58 and is listed by Underwriters Laboratories, Inc.

Rated at 250 psig from -20°F. to 125°F. All tanks may be evacuated to a full (14.7 psi) vacuum.

Vessel Finish: Coated with epoxy red powder.

Applicable federal, state or local regulations may contain specific requirements for protective coatings and cathodic protection. The purchaser and installer are responsible for compliance with such federal, state or local regulations.

All vessel dimensions are approximate

WATER CAPACITY	OUTSIDE DIAMETER	HEAD TYPE	OVERALL LENGTH	OVERALL HEIGHT		WEIGHT	QUANTITY IN FULL LOAD
				Riser Height			
				14"	28"		
120 wg 454.2 L	24" 609.6 mm	Ellip	5' - 5 7/8" 1671.6 mm	3' - 9 7/8" 1165.2 mm	4' - 8 3/8" 1431.9 mm	252 lbs. 114.3 kg	63
250 wg 946.3 L	31.5" 800.1 mm	Hemi	7' - 2 1/2" 2197.1 mm	4' - 5 3/8" 1355.7 mm	5' - 3 3/8" 1609.7 mm	472 lbs. 214.1 kg	42
320 wg 1211.2 L	31.5" 800.1 mm	Hemi	8' - 11 3/4" 2736.9 mm	4' - 5 3/8" 1355.7 mm	5' - 3 3/8" 1609.7 mm	588 lbs. 266.7 kg	35
500 wg 1892.5 L	37.42" 950.5 mm	Hemi	9' - 10" 2997.2 mm	4' - 11 3/8" 1506.6 mm	5' - 9 7/8" 1773.2 mm	921 lbs. 417.8 kg	25
1000 wg 3785.0 L	40.96" 1040.4 mm	Hemi	15' - 10 7/8" 4846.6 mm	5' - 2 7/8" 1597.0 mm	6' - 1 3/8" 1863.7 mm	1731 lbs. 785.2 kg	15
2000 wg 3785.6 L	46.614" 1183.9 mm	Ellip	23' - 9 3/8" 7248.5 mm	5' - 8 13/16" 1747.8 mm	6' - 7 5/16" 2014.5 mm	3685 lbs. 1671.4 kg	8