Permits: 410-313-2455 Inspections: 410-313-1810 Automated Line: 410-313-3800

# Howard Councy Building/Fire Permit Application Department of Inspections, Licenses & Permits

3430 Court House Drive Ellicott City, MD 21043 PARASKE VO POULOS

	- FIII	COLL CITY, IVIL	7 21043		1
	oushy 7A.Z Kun		Property Owner's Name: N.C		
Woodbine MD 21797			Address: 15507 BU		
Suite/Apt. #SDP/WP/BA #:			city: Woodbing st		
Census Tract:	Subdivision:		Home Phone: 410.489.5		
Section: Are			Applicant's Name & Mailing Ad	dress, (If other thar	stated herein):
Tax Map: Parcel:	Grid:				<del></del>
Zoning: Map Coordinat	es:Lot Size: _		Phone:	Fax:	
Existing Use: S-FG			Email:		
Proposed Use: Std W/ Q	ddition		Contractor Company: Roh	DE DUILE	Xers"
Estimated Construction Cost: \$ 75			Contact Person: SACK	KOHDE	
Description of Work: 1-5+01	addition with	h	Address: 3671 Cov		
basement	and the second		City: KeislersTown State:	: Zip C	ode: CYIVE
- William Control			Phone: 443 677,9494	Fax:	
Occupant or Tenant: 0 me-			Email: SAKE ROLDE	builders.	000
Was tenant space previously occupied?	□Yes	□No	Engineer/Architect Company:		
Contact Name:	**************************************		Responsible Design Prof.:		
Address:			Address:		
City:				Zip Cod	de:
Phone:			Phone: 443, 226, 574	ς <sub>Fax:</sub>	
Email:	SCOTORO .		Email:		
				CONSTICUT CONT	
Building Characteristics	ION - COMMERCIAL Utilities		Building Characteristics	SCRIPTION - RESIDEN	Utilities
Height:	Water Supply		☐ SF Dwelling ☐ SF Townhou		ater Supply
No. of stories:	Public		1st floor: Sg' L Si	th Public	
Gross area, sq. ft./floor:	☐ Private		2 <sup>nd</sup> floor:		vaae Disposal
A	Sewage Disposa	<u>!</u>	Basement:	☐ Public	
Area of construction (sq. ft.):	☐ Public ☐ Private		☐ Finished Basement ☐ Unfinished Basement	Private Electric:	Yes □ No
Use group:	The state of the s	□ No	☐ Crawl Space	Gas:	☐ Yes 🛍 No
	Gas: ☐ Yes	□ No	☐ Slab on Grade  No. of Bedrooms:	Electric	gting System
Construction type:	Heatina System		Multi-family Dweiling	□ OII	
☐ Reinforced Concrete	☐ Electric ☐ Oil		No. of efficiency units:	☐ Natural G	
☐ Structural Steel ☐ Masonry	☐ Natural Gas ☐ Propa  Sprinkler System		No. of 1 BR units:  No. of 2 BR units:	☐ Propane (	345
☐ Wood Frame	□ N/A	<u></u>	No. of 3 BR units:	j.6	,50 II
☐ State Certified Modular	□ Full		Other Structure: Dimensions:	1	7
> Roadside Tree Project Permit			Footings:	Roads	de Tres Project Permit
☐Yes ☐No	Other Suppression		Roof:	Dyes	
Roadside Tree Project Permit #	No. of Heads:		☐ State Certified Modular ☐ Manufactured Home	ET AP OF AT	Tree Project Permit #
THE UNDERSIGNED HEREBY CERTIFIES AND AGREE	S AS FOLLOWS: (1) THAT HE/SHE IS A	AUTHORIZED TO M	MAKE THIS APPLICATION: (2) THAT THE INFO	RMATION IS CORRECT; (3	) THAT HE/SHE WILL COMPLY
WITH ALL RECULATIONS OF HOWARD COUNTY W THIS APPLICATION: 15) THAT HE/SHE GRANTS COU	HICH ARE APPLICABLE THERETO: (4)	THAT HE/SHE WI	ILL PERFORM NO WORK ON THE ABOVE REF	ERENCED PROPERTY NO	I SPECIFICALLY DESCRIBED IN
4620			SACK KONUE		
Applicants Signature SAULG CONDES	U.L.Dersilon	PIII	ne nume		
Email Address ROHDI	Builde	Da	te ////		
Title/Company	- INDICHAL?				
			NANCE OF HOWARD COUNTY		
	THE REAL PROPERTY.	FOR OFFICE	TLY & LEGIBLY** USE ONLY:		
AGENCY DATE SH	SNATURE OF APPROVAL	DPZ SETBACK	INFORMATION	Filing Fee	\$ 2500
State Highways		Front:		Permit Fee	\$
Building Officials	Rear:		3	Tech Fee	\$
PSZA (Zoning)				Excise Tax PSFS	\$
PSZA ( Engineering )		Side St.:		Guaranty Fund	\$
Health 5-0912	ma yourand	All minimum s	setbacks met? Yes No	Add'i per Fee	\$
Fire Protection		Is Entrance Per	rmit Required? 🗆 Yes 🗆 No	Total Fees	\$
is Sediment Control approval required fo CONTINGENCY CONSTRUCTION START		Historic Distric	ct? Yes No	Sub- Total Paid	\$
☐ ONE STOP SHOP		Lot Coverage f	for New Town Zone:	Balance Due	\$
		SDP/Red-line	approval date:	Check	4330

Distribution of Copies: White: Building Officials Green: PSZA,Zoning T:\Operations\Updated Forms\New building app 11.10.2010.docx

SDP/Red-line approval date:

Yellow: PSZA,Engineering

Pink: Health

Gold: SHA

#### Bernard, Dana

From:

Bernard, Dana

Sent:

Wednesday, March 28, 2012 10:45 AM

To:

'jack@rohdebuilders.com'

Subject:

RE: Building Permit B12000692

Great! When you draw your plans make sure you place the propane tank in its exact location. I will have to come out for a site visit to confirm. The MDE statement must also be included on your plan. When you complete your all of your documents we can schedule an appointment to go over them. I will be available next week for appointments on Monday through Thursday. I have Fridays off, so call me to schedule when you are ready for a review.

Thanks Dana

----Original Message----

From: jack@rohdebuilders.com [mailto:jack@rohdebuilders.com]

Sent: Wednesday, March 28, 2012 10:34 AM

To: Bernard, Dana

Cc: jack@rohdebuilders.com

Subject: Re: Building Permit B12000692

Dana -

Thank you for meeting with me on short notice on Monday afternoon at 4pm. As we discussed I am moving forward on the requirements.

I did locate the Propane tank which on the permit from 2003 indicates it was 15' away from the house. It is actually about 100' feet from the addition side of the house and not 15'. I took 3 photos and attached them. Let me know your thoughts on how to proceed.

Additionally I have a few questions.

When I complete the information should I meet with you to submit everything? If so can we meet on Thursday or Friday? I think you may be off of Fridays.

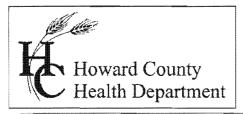
The MDE statement for lots created after 1972: Does that statement also have to be on the plot/map?

I think that should be everything.

Thank you for your time

Jack Rohde, MBA
Principal
Rohde Builders, Inc.
Office 443.507.5940
Mobile 443.677.9494
www.rohdebuilders.com

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>----Original Message----
>From: Bernard, Dana [mailto:dbernard@howardcountymd.gov]
>Sent: Thursday, March 22, 2012 05:26 PM
>To: JACK@ROHDEBUILDERS.COM
>Subject: Building Permit B12000692
>Mr. Rohde,
>I have attached a letter containing information regarding building permit # B12000692. If
you have any questions please don't hesitate to give me a call.
>
>
>Sincerely,
>Dana Bernard
>Dana Bernard, REHS/RS
>Bureau of Environmental Health
>Well and Septic Program
>Development and Coordination Section
>Phone (410) 313-2775
>Fax (410) 313-2648
>E-mail: DBernard@howardcountymd.gov<mailto:DBernard@howardcountymd.gov>
>CONFIDENTIALITY NOTICE
>
>
>This message and the accompanying documents are intended only for the use of the individual
or entity to which they are addressed and may contain information that is privileged,
confidential, or exempt from disclosure under applicable law. If the reader of this email is
not the intended recipient, you are hereby notified that you are strictly prohibited from
reading, disseminating, distributing, or copying this communication. If you have received
this email in error, please notify the sender immediately and destroy the original
transmission.
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7178 Columbia Gateway Drive, Columbia MD 21046
Phone (410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300

Website: www.hchealth.org

#### Peter L. Beilenson, M.D., M.P.H., Health Officer

March 22, 2012

RE: 15507 Bushy Tail Run

Woodbine, Maryland 21797 **Building Permit # B12000692** 

TO: Nicholas and Lisa PARASKEVOPOULOS (Applicant)

15507 Bushy Tail Run

Woodbine, Maryland 21797

Fortunately, our department can verify percolation testing has been completed on your property and a septic easement has been established. A percolation certification plan has not been located in your file but will be required to process your building permit.

The Howard County Code (sec.3.0808) requires a Percolation Certification Plan for an increase in living space of 250sq.ft. This plan delineates the existing septic reserve area and reflects any proposed changes to the property. Requirements for this plan can be found on our web site: http://www.howardcountymd.gov/Health/docs/perstestandplanreqs.pdf. Prior to building permit approval, an approved Percolation Certification Plan is required. Once you have submitted your Percolation Certification Plan and it is approved, it can serve as your building plan.

In addition, based on the square footage of the existing house and the proposed addition combined, you will be required to upgrade your septic tank to a 2000 gallon tank to accommodate the extra square footage.

And finally, floor plans for the existing house must be submitted to complete the review process.

Your building permit will be placed "on hold" until all Howard County Health Department requirements are met. If you have any questions or correspondence, I can be reached at the above address or by telephone at (410) 313-2775.

Respectfully,

Dana Bernard, REHS/RS

Bureau of Environmental Health

Well and Septic Program

Phone (410) 313-2775

E-mail: dbernard@howardcountymd.gov

DLB

cc: Well & Septic program file Contractor: Jack Rohde

Via e-mail at: JACK@ROHDEBUILDERS.COM

# **KEY NOTES**

(HD-2) 3/4" Ø x 12" DEEP HOLE FOR 5/8" Ø THREADED ROD ANCHOR

(AB-72) MIN.  $\frac{1}{2}$ " Ø ANCHOR BOLTS @ 72" O.C. OR EQUIVALENT. 7" EMBED. TYPICAL, UNO.

443.226.5745 www.jra-design.com

I certify that these documents by me, and that I am a duly licensed professional architect under the laws of the State of Maryland, License Number #14678 Expiration Date: 6/30/2012.



JAX APEX TECHNOLOGY, INC VA CA NO. F173645-5 4745 SUTTON PARK CT, SUITE 402 JACKSONVILLE, FL 32224

esidence Paraskevopoulos

2/23/2012



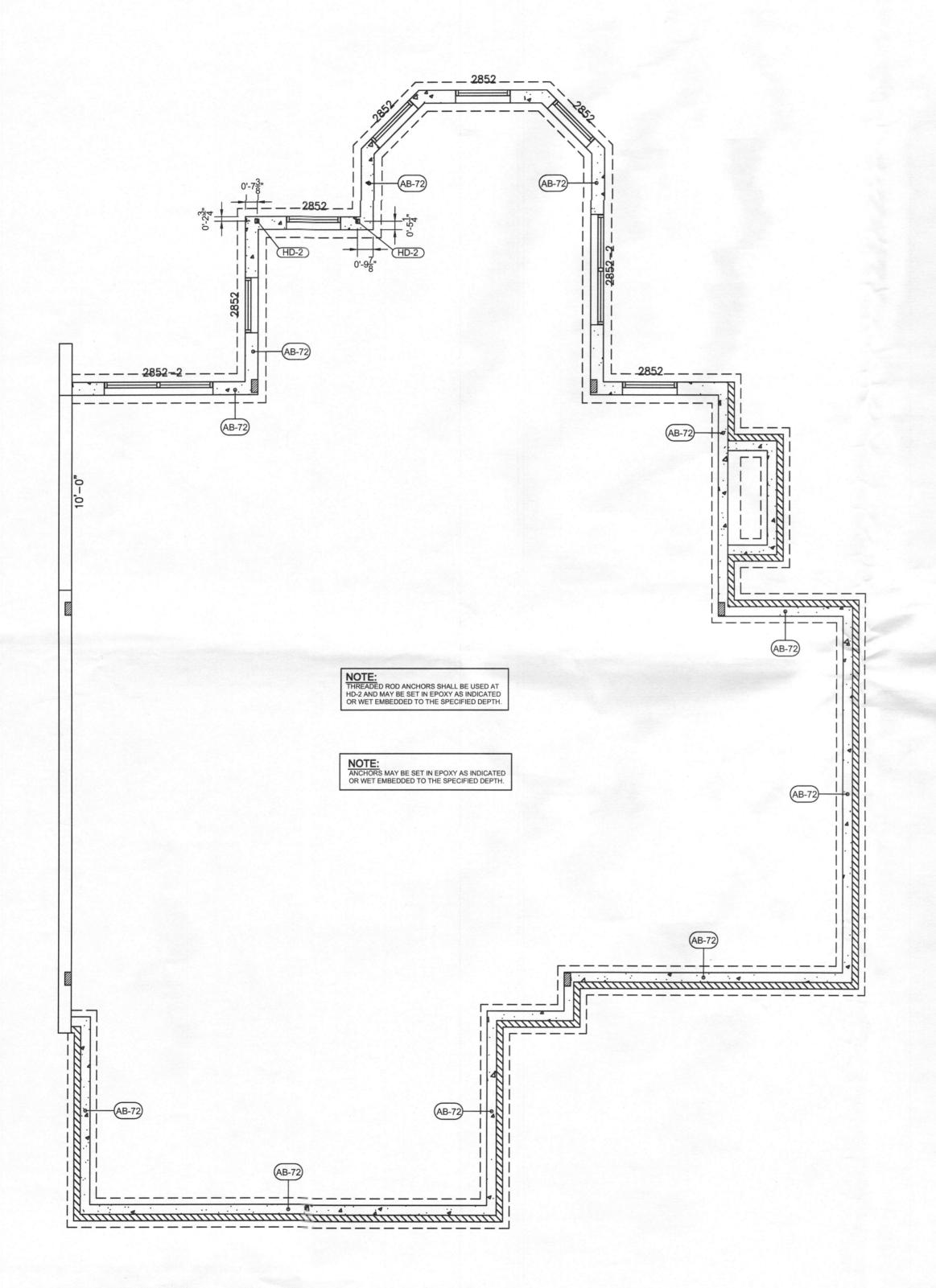
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PROJECT #

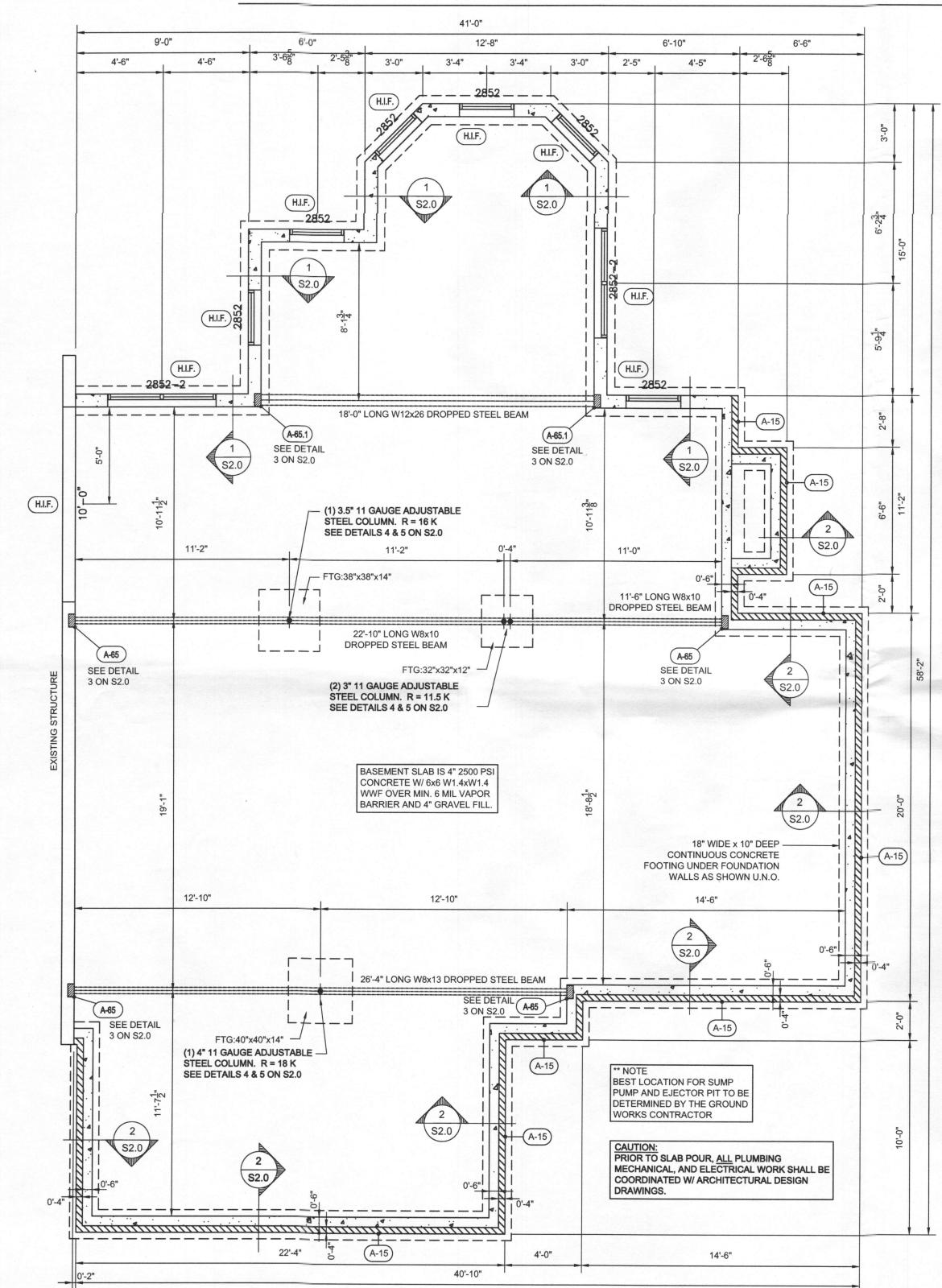
SCALE: 1/4" = 1'

WET EMBED PLAN

PRINT DATE: February 16, 2012



IT IS RECOMMENDED THAT A COPY OF THIS PLAN BE PROVIDED TO THE CONCRETE SUBCONTRACTOR PRIOR TO CONSTRUCTION



1/4" = 1'-0"

STRUCTURAL FOUNDATION PLAN

#### **GENERAL PLAN NOTES:**

- 1. EARTH AND EARTH FILL SUPPORTING SLABS ON GRADE IS ASSUMED TO HAVE A MINIMUM BEARING CAPACITY OF 2,000 psf AND SHALL BE FREE OF ORGANIC MATERIAL AND COHESIVE SOILS. COMPACT THE FILL IN 12" LIFTS TO AT LEAST 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY. IT IS THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO CONFIRM THESE ASSUMPTIONS.
- 2. IF CONTRACTOR OR BUILDING OFFICIAL DETERMINES THAT THE SOIL IS NOT SUITABLE FOR 2,000 PSF BEARING CAPACITY, CONTACT EOR. ADDITIONAL FOUNDATION WORK MAY BE REQUIRED.
- 3. GARAGE AND PORCH SLABS SHALL HAVE NO.4 TOP REINFORCING BAR AT 18" O.C. FOR TEMPERATURE SHRINKAGE. SEE DETAIL 5/S2.1
- 4. BUILDING FOOTING HAS BEEN ENGINEERED FOR ALLOWABLE SERVICE LOADS PER 2009 IRC AND ASCE 7-05 ASD LOAD

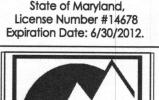
#### **KEY NOTES**

4" BRICK LEDGE. TOP OF LEDGE TO BE FIELD DETERMINED. A-65 BEAM POCKET; 8" WIDE x 4" DEEP x 9" HIGH. SEE DETAIL 3, S2.0 A-65.1 BEAM POCKET; 10" WIDE x 4" DEEP x 13" HIGH. SEE DETAIL 3, S2.0 H.I.F. HEADER OR BEAM IN FLOOR SYSTEM PER FLOOR FRAMING PLAN.



443.226.5745 www.jra-design.com

PROFESSIONAL CERTIFICATION I certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the





JAX APEX TECHNOLOGY, INC VA CA NO. F173645-5 4745 SUTTON PARK CT, SUITE 402 JACKSONVILLE, FL 32224

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Jeffrey P. ar

2/23/2012



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PROJECT #

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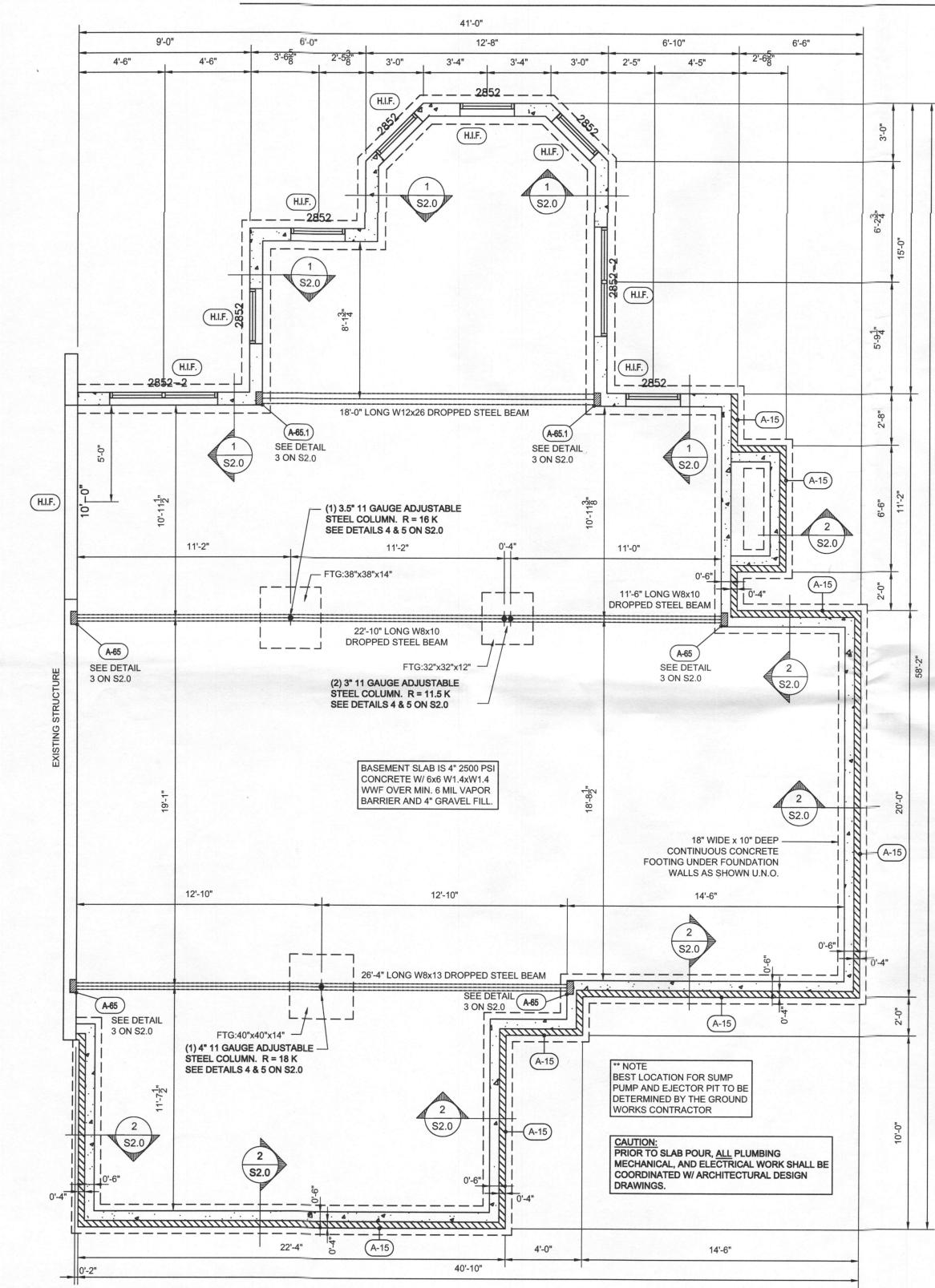
SCALE: 1/4" = 1'

**FOUNDATION** 

February 16, 2012

NOTE: SEE ANCHOR BOLT PLAN, SHEET S1.1, FOR LOCATION AND SPACING OF ANCHOR BOLTS IN SILL

PLATE AT TOP OF FOUNDATION WALLS.



STRUCTURAL FOUNDATION PLAN

1/4" = 1'-0"

#### **GENERAL PLAN NOTES:**

- 1. EARTH AND EARTH FILL SUPPORTING SLABS ON GRADE IS ASSUMED TO HAVE A MINIMUM BEARING CAPACITY OF 2,000 psf AND SHALL BE FREE OF ORGANIC MATERIAL AND COHESIVE SOILS. COMPACT THE FILL IN 12" LIFTS TO AT LEAST 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY. IT IS THE OWNER'S OR CONTRACTOR'S RESPONSIBILITY TO CONFIRM THESE ASSUMPTIONS.
- 2. IF CONTRACTOR OR BUILDING OFFICIAL DETERMINES THAT THE SOIL IS NOT SUITABLE FOR 2,000 PSF BEARING CAPACITY, CONTACT EOR. ADDITIONAL FOUNDATION WORK MAY BE REQUIRED.
- 3. GARAGE AND PORCH SLABS SHALL HAVE NO.4 TOP REINFORCING BAR AT 18" O.C. FOR TEMPERATURE SHRINKAGE. SEE DETAIL 5/S2.1
- 4. BUILDING FOOTING HAS BEEN ENGINEERED FOR ALLOWABLE SERVICE LOADS PER 2009 IRC AND ASCE 7-05 ASD LOAD

#### **KEY NOTES**

4" BRICK LEDGE. TOP OF LEDGE TO BE FIELD DETERMINED. A-65 BEAM POCKET; 8" WIDE x 4" DEEP x 9" HIGH. SEE DETAIL 3, S2.0 A-65.1 BEAM POCKET; 10" WIDE x 4" DEEP x 13" HIGH. SEE DETAIL 3, S2.0 H.I.F. HEADER OR BEAM IN FLOOR SYSTEM PER FLOOR FRAMING PLAN.



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PROFESSIONAL CERTIFICATION I certify that these documents were prepared or approved by me, and that I am a duly licensed professional

architect under the laws of the State of Maryland, License Number #14678 Expiration Date: 6/30/2012.



JAX APEX TECHNOLOGY, INC VA CA NO. F173645-5 4745 SUTTON PARK CT, SUITE 402 JACKSONVILLE, FL 32224

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Jeffrey P. ar

2/23/2012



**REVISIONS** 

PROJECT #

11969

SCALE: 1/4" = 1'

**FOUNDATION** 

February 16, 2012

NOTE: SEE ANCHOR BOLT PLAN, SHEET S1.1, FOR LOCATION AND SPACING OF ANCHOR BOLTS IN SILL PLATE AT TOP OF FOUNDATION WALLS.

#### 4.3 CONCRETE

SEE SECTION 4.4 FOR COLD WEATHER CONCRETE SPECIFICATIONS

CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) STANDARD 318-99, STANDARD 306.1-90 (COLD WEATHER CONCRETE), AND IRC.

CONCRETE WALLS AND FOOTINGS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI UNLESS OTHERWISE NOTED.

ALL INTERIOR CONCRETE SLABS SHALL BE 4" THICK AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND SHALL BE REINFORCED WITH 6x6 - W1.4 x W1.4 WWF AND BE POURED OVER A SIX (6) MIL POLY VAPOR BARRIER OVER 4" POUROUS GRANULAR FILL.

ALL INTERIOR CONCRETE SLABS 30'-0" OR GREATER IN ANY DIMENSION SHALL HAVE CONTROL JOIINTS.

VAPOR BARRIER - SHALL BE A 6 MIL POLYETHYLENE SHEET WITH ALL JOINING EDGES LAPPED A MINIMUM OF 6" AND TO BE PLACED OVER 4" POROUS GRANULAR FILL.

ALL EXTERIOR CONCRETE SLABS SHALL BE AIR ENTRAINED (AIR CONTENT BETWEEN 5% AND 7%) AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI (INCLUDING THE GARAGE SLAB).

4" GRANULAR FILL MIN BELOW CONCRETE SLAB.

WEEP HOLES 2 INCHES IN DIAMETER SHALL BE PROVIDED THRU BASE OF FOUNDATION WALLS (ABOVE FOOTER) AT 6'-0" O.C. OR PER LOCAL CODE. MOST RESTRICTIVE GOVERNS.

FLOOR SYSTEMS SHALL BE SEPERATED FROM POURED CONCRETE PORCHES/PATIOS BY A ½" ASPHALT IMPREGNATED FIBER BOARD EXPANSION JOINT AND A 28 GAGE ALUMINIUM FLASHING AND/OR 6 MIL POLY VAPOR BARRIER

WHERE CONCRETE FLAT WORK ABUTTS AN EXISTING CONCRETE SLAB, PROVIDE A 1/2" ASPHALT IMPREGNATED FIBER **BOARD EXPANSION JOINT** 

ALL FOOTINGS AND TURNED DOWN SLABS SHALL BE LOCATED AT A MIINMUM OF 30" BELOW THE FROST LINE/GRADE PER LOCAL CODE.

## 4.4 COLD WEATHER CONCRETE

COLD WEATHER IS DEFINED AS A PERIOD WHEN FOR MORE THAN (3) SUCCESSSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40 DEGREES FARENHEIT. WHEN TEMPERATURES ABOVE 50 DEGREE FARENHEIT OCCUR DURING MORE THAN HALF OF ANY 24 HOUR PERIOD, THE CONCRETE SHOULD NO LONGER BE REGARDED AS "COLD WEATHER CONCRETE."

ALL MATERIALS AND EQUIPMENT REQUIREDED FOR PROTECTION SHALL BE AVAILABLE AT THE PROJECT SITE BEFORE COLD WEATHER CONCRETE.

THE CONCRETE MIX DESIGN PROVIDED BY THE SUPPLIER SHALL AT A MINIMUM REACH THE AVERAGE 28 DAY MIX DESIGN COMPRESSIVE STRENGTH IN MINIMUM 72 HOURS OR 2000 PSI - WHICHEVER IS GREATER. THE CONTRACTOR SHALL SUBMIT A MIX DESIGN TO THE ENGINEER FOR REVIEW PRIOR TO USE.

THE TEMPERATURE OF CONCRETE AT PLACEMENT SHALL BE 55 DEGREES FARANHEIT MINIMUM

THE MINIMUM CONCRETE TEMPERATURE AT THE TIME OF MIXING SHALL NOT BE BELOW 65 DEGREES FARENHEIT. CONCRETE MANUFACTURER SHALL FOLLOW GUIDELINES SET FORTH BY ACI 306R (LATEST EDITION).

ALL SNOW, ICE, AND FROST MUST BE REMOVED SO THAT IT DOES NOT OCCUPY SPACE WHICH IS INTENDED TO BE FIILLED WITH CONCRETE. CONCRETE CONTRACTOR SHALL USE NECESSARY MEANS SO AS TO PROVIDE A NON-FROZEN SURFACE. THIS WORK SHOULD BE DONE IMMEDIATELY PRIOR TO CONCRETE PLACEMENT TO PREVENT RE-FREEZING.

THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF CONCRETE AGAINST FREEZING AND MAINTAIN A CONCRETE TEMPERATURE OF 55 DEGREES FARANHEIT FOR A 72 HOUR PERIOD AFTER CONCRETE PLACEMENT. THIS MAY BE ACHIEVED WITH THE USE OF INSULATING BLANKETS DROPPED OVER WALLS, SLABS, AND FOOTINGS, AND/OR THE USE OF TEMPORARY HEATERS

GROUND TEMPERATURE AT THE TIME OF PLACEMENT OF SLAB OR FOOTINGS SHALL NOT BE LESS THAN 35 DEGREES FARANHEIT. THE CONTRACTOR SHALL TAKE INSULATIVE MEASURES AND/OR PROVIDE TEMPORARY HEAT IN ORDER TO PROVIDE A GROUND TEMPERATURE OF AT LEAST 35 DEGREES AT THE TIME OF CONCRETE INSTALLATION

AFTER THE 72 HOUR PERIOD THE INSULATION, FORMS, AND HEATERS MAY BE REMOVED

MAINTAIN ADEQUATE PROTECTION OF SUB GRADE AND ADEQUATE DRAINAGE AWAY FROM EXPOSED CONCRETE ELEMENT TO PREVENT FREEZING AND POTENTIAL FROST HEAV THAT MAY DAMAGE STRUCTURALLY SOUND CONCRETE

THE USE OF CALCIUM CHLORIDE SHALL BE PERMITTED ONLY IN CONVENTIONAL BASEMENT FLOOR SLAB ON GRADE AND IS NOT PERMITTED IN ANY OTHER CONCRETE APPLICATION. THE AMOUNT OF CALCIUM CHLORIDE PERMITTED IN UNREINFORCED BASEMENT FLOOR SLABS SHALL NOT EXCEED 1% BY WEIGHT OF CEMENT

#### 4.7 STEEL

ALL STRUCTURAL STEEL DESIGNED PER A.I.S.C. ASD 9TH EDITION AND IS TO BE FABRICATED OF THE FOLLOWING STRENGTHS:

WIDE FLANGE SHAPES AND CHANNELS

ASTM A992, OR ASTM A572 (GRADE 50) STEEL TUBES

ASTM A500, GRADE B (46 KSI) ALL OTHER STEEL

ALL CONTINUOUS HORIZONTAL REINFORCEMENT SHALL HAVE 90 DEGREE BENDS AT CORNERS AND SHALL HAVE 25" LAP AT SPLICES.

ALL REINFORCING BARS SIZE #3 OR GREATER SHALL BE ASTM A615 GRADE 60 REBAR

WELDED DOWEL BAR REINFORCING SHALL BE ASTM A706 WELDABLE STEEL

WELDED WIRE FABRIC TO BE ASTM A 185.

TRUSS HANGERS, CONNECTORS, STRAPS, AND THE LIKE SHALL BE HOT DIPPED GALVANIZED IN A MANNER CONSISTENT WITH THE CORROSIVE SALT ENVIRONMENT OF THE OCEANFRONT.

#### 4.8 NAILS

COMMON WIRE NAILS AND THREADED HARDENED STEEL NAILS SHALL CONFORM TO THE NOMINAL SIZES SPECIFIED IN ASTM F1667. NOMINAL DIAMETER SIZES APPLY TO FASTENERS BEFORE APPLICATION OF PROTECTIVE COATING.

WHEN A BORED HOLE IS REQUIRED TO PREVENT SPLITTING OF A WOOD DUE TO FASTENER PENETRATION, THE BORED HOLE SHALL NOT EXCEED 75% OF THE NAIL OR SPIKE DIAMETER

THE NOMINAL DIAMETER AND LENGTH OF TYPICAL FASTENERS SPECIFIED FOR THIS PROJECT ARE AS LISTED IN TABLE 4.6-1 BELOW

#### TABLE 4.8-1: NAIL SIZE LEGEND

	DIA.	LENGTH
16d COMMON	0.165"	3 1/ 2"
16d COMMON	0.148"	3 1/4"
12d COMMON	0.148"	3 1/4"
10d COMMON	0.148"	3"
10d x 1½"	0.148"	1 1/ 2"
8d COMMON	0.131"	2 1 /2"
10d RINGSHANK	0.148"	3"
8d RINGSHANK	0.113"	2 1/ 2"

#### 4.9 WOOD STRUCTURAL PANEL (PLYWOOD OR OSB)

ALL WOOD STRUCTURAL PANEL SHALL CONFORM TO THE MOST CURRENT APPLICABLE SPECIFICATION AND SUPPLEMENTS OF THE APA.

ALL PANEL END JOINTS SHALL OCCUR OVER SUPPORTS AND SHALL BE STAGGERED ONE HALF PANEL LENGTH FROM ADJACENT PANELS. PROVIDE 1/8 INCH SPACE AT PANEL ENDS.

WOOD STRUCTURAL PANELS SHALL BE INSTALLED AS FOLLOWS:

- 1. TYPICAL EXTERIOR WALLS: FULLY SHEATHED WITH MIN 7/6" OSB OR PLYWOOD w/ 8d COMMON: 6" O.C. AT PANEL EDGE, 12" O.C. IN THE FIELD. (OPTIONAL: 15 OR 16 GAUGE x 1 ¾" STAPLES @ 4" O.C. AT PANEL EDGES, 8" O.C. IN THE FIELD UNO.)
- 2. BRACED WALLS AND SHEARWALLS: SEE SHEET S6.0 AND STRUCTURAL PLANS.
- 3. **ROOF DECK SHEATHING:** MIN  $\frac{7}{6}$ " 24/16 SPAN RATED OSB OR PLYWOOD (3-PLY OR BETTER) 8d COMMON NAILS: 6" O.C. AT PANEL EDGES, 6" O.C. IN THE FIELD. ROOF SHEATHING SHALL SPAN OVER A MINIMUM OF (3) SUPPORTS.
- 4. FLOOR DECK SHEATHING: 3/4" ADVANTECH FLOOR SHEATHING GLUED AND NAILED W/ 10d COMMON: 6" O.C. AT PANEL EDGES, 12" O.C. IN THE FIELD OR ALTERNATIVE FASTENERS AS PROVIDED FOR IN IRC TABLE R602.3 (2).
- PORCH AND OVERHANG SOFFIT CEILING BOARD SHEATHING: MIN 3/8" OSB OR PLYWOOD (3-PLY OR BETTER) INSTALLED PERPENDICULAR TO SUPPORTS W/ 8d COMMON: 6" O.C. AT PANEL EDGES, 6" O.C. IN THE FIELD.

### 4.10 PRE-FABRICATED WOOD ROOF TRUSSES

ROOF TRUSSES FABRICATED TO ACHIEVE THE ROOF PLANES DEPICTED ON THE ARCHITECTURAL PLANS SHALL BE DESIGNED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER. FABRICATION DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH ANSI/TPI1-2002 AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION. TEMPORARY BRACING DESIGN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LEFT IN PLACE AFTER CONSTRUCTION IS COMPLETE.

#### TRUSS LOADING

ROOF TRUSSES EXPOSED TO WIND SHALL BE DESIGNED FOR ASCE 7-05 90 MPH EXPOSURE C ENCLOSED BUILDING DESIGN. TRUSSES SPANNING OVER EXTERIOR PORCH AREA ARE TO BE DESIGNED WITH AN INTERIOR PRESSURE COEFFICIENT OF 1.0 APPLIED TO THE UNDERSIDE OF THE TRUSS BOTTOM CHORD FOR THE LENGTH OF TRUSS EXPOSED TO PORCH AREA.

WOOD ROOF TRUSSES SHALL BE DESIGNED TO SUPPORT THE LOADS INDICATED BELOW AT THE SPACING INDICATED ON THE DRAWINGS

14		L DIVAVIIVOS.	
	a.	UNIFORM TOP CHORD DEAD LOAD	7 PSF.
	b.	UNIFORM TOP CHORD LIVE LOAD	20 PSF
		UNIFORM BOTTOM CHORD DEAD LOAD	
	d.	UNIFORM BOTTOM CHORD LIVE LOAD	
		ATTICS WITH STORAGE	20 PSF
		ATTICS WITHOUT STORAGE	
	d.	MINIMUM NET AVERAGE UPLIFT	
		MWFRS	15 PSF
		C&C	20 PSF
	e.	LATERAL LOADS IN ACCORDANCE WITH THE 2009 IRC.	
	f	GROUND SNOW LOAD.	30 PSF.

NOTE: IN ADDITION TO BASIC LOAD COMBINATIONS, TRUSS DESIGNER SHALL RUN THE SNOW LOAD DESIGN OPTION USING THE GROUND SNOW LOAD INDICATED ABOVE.

### 4.11 MANUFACTURED WOOD I-JOISTS

PRE-FABRICATED FLOOR JOISTS SHALL BE MIN 14" DEEP TJI OR EQUIVALENT AS INDICATED ON FLOOR FRAMING PLANS. JOISTS SHALL BE DESIGNED AS FOLLOWS:

MINIMUM 13 PRO RATING
UNIFORM LIVE LOADS
TYPICAL
SOAK OR WHIRLPOOL BATHS45 PS
UNIFORM DEAD LOADS
TYPICAL10 PS
SOAK OR WHIRLPOOL BATHS 20 PS
TILE OR MARBLE FLOORS
MAX DEFLECTION

JOISTS UNDER MARBLE OR TILE ROOF (OTHER THAN POWDER ROOMS AND HALL BATHS) SHALL BE SPACED NO MORE THAN 19.2" O.C.

#### 4.12 THREADED ROD ANCHOR

HOLD-DOWN CONNECTORS SPECIFIED AT ENDS OF SHEARWALLS ARE TO BE SECURED TO BASEMENT WALL w/ SIMPSON HIGH STRENGTH SET EPOXY OR EQUIVALENT. DRILL HOLE 1/8" DIAMETER LARGER THAN THREADED ROD TO THE DEPTH

#### 4.13 ENGINEERED WOOD PRODUCT

ENGINEERED WOOD PRODUCTS SPECIFIED ON STRUCTURAL DRAWINGS HAVE BEEN SIZED USING LITERATURE AND SOFTWARE PROVIDED BY ILEVEL BY WEYERHAUSER.

LSL MATERIAL MAY BE REPLACED WITH LVL OR PSL MATERIAL OF EQUAL OR BETTER

LVL MATERIAL MAY BE REPLACED WITH PSL MATERIAL OF EQUAL OR BETTER

FOR EQUIVALENCY OF DESIGN PURPOSES, A COMPRESSION PERPENDICULAR TO GRAIN VALUE OF 750 PSI IS USED FOR 1.55E LSL, 1.9E LVL, AND 2.0E PSL BEAMS

EQUIVALENT MANUFACTURED PRODUCTS BY OTHER MAY BE USED AS AN ACCEPTABLE ALTERNATIVE TO BEAM SPECIFIED ON STRUCTURAL DRAWINGS

#### 4.14 BRICK VENEER

- 1. BRICK VENEER SHALL BE INSTALLED AS FOLLOWS:
- HORIZONTAL TIES @ 24" O.C.
- VERTICAL TIES @ 16" O.C.
- WEEP TUBES OR WICKS @ 16" O.C. OR OPEN HEAD JOINTS @ 24" O.C.
- 2. BRICK LINTELS SHALL BE INSTALLED IN ACCORDANCE w/ TABLE 4.13-1 BELOW:

#### TABLE 4.13-1: BRICK LINTEL INSTALLATION SPECIFICATIONS

LINTEL DIMENSION	MINIMUM BEARING	MAXIMUM TOTAL SPAN
3" Vx3 ½" Hx¼"T	4 INCHES	6 FEET
4" ∨ x 3 ½"H x ¼"T	6 INCHES	8 FEET
5" V x 3 ½" H x ¼"T	6 INCHES	10 FEET
6" V x 3 ½"H x ¼" Т	6 INCHES	12 FEET
7" V x 4" H x ½" T	6 INCHES	16 FEET

#### TABLE 4.13-1 NOTES:

- STEEL LINTELS TO BE MIN 36 KSI.
- LINTEL MUST HAVE CORROSION RESISTENT COATING OF EPOXY BASED PAINT
- ALL LINTELS GREATER THAN 8 FEET SHALL BE LATERALLY SUPPORTED AT A NO GREATER THAN 6 FEET ON CENTER W/ (1) 1/4" X 3" WOOD SCREW INTO HEADER. PROVIDE A 1" VERTICALLY SLOTTED HOLE FOR SCREW.

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PROJECT #

SCALE:

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STRUCTUAL SUMMARY

February 16, 2012

## 1.0 DESIGN CRITERIA AND GENERAL STRUCTURAL NOTES

ALL DESIGN AND CONSTRUCTION WORK SHALL CONFORM TO THE 2009 INTERNATIONAL RESIDENTIAL BUILDING CODE AND THE INTERNATIONAL EXISTING BUILDING CODE. WIND LOADS SHALL BE CALCULATED USING ASCE 7-05.

THIS DRAWING HAS BEEN PRODUCED ENTIRELY ON APEX TECHNOLOGY'S CADD SYSTEM. ANY OTHER LETTERING, LINES OR SYMBOLS, OTHER THAN PROFESSIONAL STAMPS AND SIGNATURES, HAVE BEEN MADE WITHOUT THE AUTHORIZATION OF APEX TECHONOLOGY ENGINEERING SERVICES AND ARE INVALID.

THE STRUCTURAL DRAWINGS SHALL GOVERN THE WORK FOR ALL STRUCTURAL FEATURES, UNLESS NOTED OTHERWISE. THE ARCHITECTURAL DRAWINGS SHALL GOVERN THE WORK FOR ALL DIMENSIONS.

STEP FOOTINGS BELOW ALL SANITARY AND WATER LINES.

ALL WINDOWS AND DOORS MUST BE TESTED TO RESIST THE DESIGN WIND LOADS LISTED IN TABLE 1-1 AND MUST BE INSTALLED IN ACCORDANCE WITH MANF. INSTALLATION DRAWINGS.

#### LOADING CRITERIA:

ROOF LOADING	
ROOF LIVE LOAD	20 PSF
ATTIC LIVE LOAD	
WITH STORAGE	20 PSF
WITHOUT STORAGE	10 PSF
GROUND SNOW LOAD	30 PSF
FLOOR LIVE LOAD	40 PSF
DECK LIVE LOAD	60 PSF
BALCONY LIVE LOAD	100 PSF
WIND LOADING	(Cd= 1.60)
ASCE 7-05, 3S GUST	
BASIC WIND SPEED	90 MPH
EXPOSURE CATEGORY	С
IMPORTANCE FACTOR	1.0
BUILDING CATEGORY	ll .
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFF.	0.18
C&C DESIGN PRESSURES	SEE TABLE 1-1

WINDOWS AND DOORS

VINYL SOFFITS

#### TABLE 1-1: COMPONENT AND CLADDING DESIGN PRESSURES

SEE TABLE 1-1

+19.7 / -26.3

Designation Effective Wind Area		r Zone sf)		Zone psf)
0 - 20 sq. ft.	+19.7	-21.3	+19.7	-26.3
21 - 50 sq. ft.	+18.7	-20.4	+18.7	-24.4
51 - 100 sq. ft.	+17.6	-19.2	+17.6	-22.2
101 - 200 sq. ft.	+16.7	-18.4	+16.7	20.4

#### SEE WALL FRAMING PLANS: EZ=END ZONE IZ=INTERIOR ZONE.

SNOW LOADING	(Cd= 1.15)
ASCE 7-05	
<b>EXPOSURE CATEGORY</b>	С
IMPORTANCE FACTOR	1.0
<b>BUILDING CATEGORY</b>	II II

SOIL BEARING CAPACITY 2000 PSF (ASSUMED)

SITEWORK REQUIRED IN ACCORDANCE W/ITH GEOTECHNICAL REPORT

#### **DEFLECTION CRITERIA**

A.) ROOF TRUSSES

1. TRUSSES AND BEAMS W/ DEFLECTION GREATER THAN 3/4" SHALL BE SUBMITTED FOR REVIEW BY BUILDER PRIOR TO FABRICATION AND SHALL OTHERWISE CONFORM TO THE FOLLOWING:

LL/240 TL/180 TL/600 (SUPPORTING BRICK OR STONE) LL/360 TL/240

### LEGEND

LSL	TIMBERSTRAND ENGINEERED WOOD PRODUCT OR EQUIVALENT
LVL	MICROLLAM ENGINEERED WOOD PRODUCT OR EQUIVALENT
PSL	PARALLAM ENGINEERED WOOD PRODUCT OR EQUIVALENT
PFG	INTERMITTENT BRACED WALL METHOD GARAGE PORTAL FRAME
	(IRC SECTION R602.10.3.4)
PFH	INTERMITTENT BRACED WALL METHOD GARAGE PORTAL FRAME
	WITH HOLD-DOWNS (IRC SECTION 602.10.3.3)
CS-PF	CONTINUOUSLY SHEATHED GARAGE PORTAL FRAME
	(IRC SECTION R602.10.4.1.1)



INTERIOR LOAD BEARING WALL WOOD FRAMED HEADER IN WALL



#### **MWFRS WALL LINE**

MWFRS WALL LINES ARE IMAGINARY LINES SHOWN ON PLAN TO INDICATE CENTER-TO-CENTER SPACING OF BRACED WALL PANEL SEGMENTS OR AND/OR SHEARWALLS USED TO RESIST RACKING DUE TO MWFRS WIND LOADS. BRACED WALL PANELS SHALL BE INSTALLED IN ACCORDANCE WITH IRC R602.10 AND THESE DRAWINGS. ENGINEERED SHEARWALLS, IF APPLICABLE, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS. WHERE THESE PLANS ARE MORE RESTRICTIVE THAN CODE, THE PROVISIONS OF THIS PLAN SHALL GOVERN.

#### SEE SHEET S-6.0 FOR BRACED WALL PANEL DESIGN DETAILS

BRACED WALL METHOD PER IRC R602.10

CS-WSP -PRESCRIPTIVE CONTINUOUSLY SHEATHED BRACED WALL METHOD "CS-WSP" AS DESCRIBED IN IRC SECTION R602.10.4

PRESCRIPTIVE INTERMITTENT BRACED WALL METHOD "WSP" AS DESCRIBED IN

IRC SECTION R602.10.2 PRESCRIPTIVE INTERMITTENT BRACED WALL METHOD "GB" AS DESCRIBED IN IRC SECTION R602.10.2.1\

SHEATH ALL GABLE END WALLS TO RAKE OF ROOF

GB -

SEE SECTION 4.9 THIS SHEET AND SECTION 6.0 FOR FASTENING OF OSB/GYPSUM BOARD AT BRACED WALLS

#### SEE SHEET S-6.0 FOR SHEARWALL DESIGN DETAILS

ENGINEERED SHEARWALL IN ACCORDANCE WITH 2009 INTERNATIONAL BUILDING CODE. USED ONLY FOR PORTIONS OF STRUCTURE THAT DO NOT CONFORM TO VIRGINIA CODE BRACED WALL PROVISIONS

NOTE: SHEATH ALL GABLE ENDS CONT. OVER LENGTH OF ENGINEERED SHEAR WALLS UP TO RAKE OF ROOF

- PERFORATED SHEARWALLS ARE SHEARWALLS INDICATED ON PLAN WITH WINDOW AND DOOR OPENINGS WITHIN THE SHEARWALL AND HAVE BEEN DESIGNED IN ACCORDANCE WITH IRC 2305.3.7.2
- DBL STUD GROUP AND HOLDDOWN CONNECTORS ARE REQUIRED ONLY AT THE EXTREME ENDS OF THE SHEARWALL. ALL ELSE IS TO BE INSTALLED PER "SW" SPECIFICATIONS.
- SHEAR WALLS DESIGNED USING FORCE TRANSFER METHOD ARE INDICATED ON PLAN AND WERE ANALYZED AS A SIMPLE PORTAL FRAME WITH RIGID JOINT CONNECTION BETWEEN THE BEAM ABOVE AND THE SHEAR WALL. DETAILS ARE PROVIDED AS INDICATED ON PLAN. SHEAR WALLS DESIGNED WITH FORCE TRANSFER METHOD REQUIRE HOLD-DOWNS AT EACH END OF EACH SHEAR WALL.

ALL STRUCTURAL FRAMING HAS BEEN DESIGNED FOR IN-PLACE LOADING CONDITIONS ONLY. THE CONTRACTOR SHALL HANDLE, STORE AND ERECT ALL STRUCTURAL FRAMING MEMBERS IN A MANNER TO NOT OVER STRESS OR DAMAGE THESE MEMBERS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND ENGINEER IF SUCH DAMAGE OCCURS. THE DAMAGED MEMBER SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE ARCHITECT AND ENGINEER

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION SITE SAFETY INCLUDING BUT NOT LIMITED TO PROVIDING PROPERLY DESIGNED TEMPORARY SHORING, BRACING, FORMWORK, SCAFFOLDING, AND OTHER SAFETY EQUIPMENT REQUIRED TO PROTECT THE STRUCTURE, WORKERS, AND GENERAL PUBLIC. SHORING AND BRACING SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF MEMBER ERECTION AND ALL PERMANENT BRACING IS IN PLACE. THE DESIGN ARCHITECT AND ENGINEER DOES NOT BEAR ANY RESPONSIBILITY FOR ANY OF THE ABOVE ITEMS AND OBSERVATION VISITS TO THE SITE DO NOT IN ANY WAY INCLUDE INSPECTION OF THESE ITEMS

## 4.0 MATERIAL SPECIFICATIONS

#### 4.1 **WOOD**

ALL STRUCTURAL LUMBER SHALL CONFORM TO THE MOST CURRENT APPLICABLE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.

ALL LUMBER SHALL COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND WITH THE APPLICABLE RULE OF INSPECTION AGENCIES CERTIFIED BY AMERICAN LUMBER STANDARD. FACTORY MARK EACH PIECE OF LUMBER WITH GRADE STAMP OF INSPECTION AGENCY EVIDENCING COMPLIANCE WITH GRADING RULE REQUIREMENTS.

ALL LOAD BEARING STUDS SHALL BE NO. 2 SPF OR BETTER (UNO).

ALL LOAD BEARING HEADERS AND BEAMS TO BE MIN. NO. 2 SYP (UNO).

ALL DBL PLATES IN VERTICAL FRAMING SHALL LAP SPLICED DBL TOP PLATE. THE TOP PLY SHALL BE FIELD APPLIED NO. 2 SYP. THE BOTTOM PLY MAY BE NO. 2 SPF OR BETTER. (EXTERIOR WALLS AND INTERIOR LOAD BEARING WALLS SHALL HAVE DBL TOP PLATE).

BOTTOM PLATES IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED

ALL RAFTERS AND JOISTS SHALL BE NO. 2 SYP OR BETTER (UNO).

NO CUTS, HOLES, OR COPES REQUIRED FOR OTHER TRADES IN STRUCTURAL WOOD FRAMING WILL BE PERMITTED WITHOUT PRIOR REVIEW AND APPROVAL OF ENGINEER AND ARCHITECT.

PRESSURE TREAT ALL WOOD WITH WATER-BORNE PRESEVATIVES ALL LUMBER FOR SILL PLATES AND OTHER WOOD WHICH MAY BE EXPOSED TO WEATHER OR EARTH. PRESSURE TREATMENT SHALL COMPLY WITH REQUIREMENTS OF AWPB STANDARDS C2 AND LP-22.

ALL METAL FASTENERS AND CONNECTORS INSTALLED IN PRESSURE TREATED LUMBER SHALL BE PROTECTED IN ACCORDANCE WITH TABLE 4.1-1 BELOW

## TABLE 4.1-1: FASTENERS IN PRESSURE TREATED LUMBER

PRESERVATIVE	
ACQ & NON-DOT BORATE	CONNECTORS MUST HAVE Z-MAX, G120 OR TRIPLE ZINC COATED FINISH. ALL FASTENERS MUST BE HOT DIPPED GALVANIZED.
SODIUM BORATE	STANDARD FINISH IS ACCEPTABLE (UNO)
ACZA	NOT RECOMMENDED. STAINLESS CONNECTORS AND FASTENERS REQUIRED.

#### 4.2 FOUNDATION AND EARTHWORK

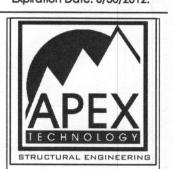
ALL EARTHWORK AND SUB GRADE PREPERATION SHALL BE EXECUTED AS PER RECOMMENDATIONS PRESCRIBED IN THE GEOTECHNICAL REPORT PREPARED SPECIFIC TO THIS SITE

A QUALIFIED SOILS ENGINEER SHALL BE RESPONSIBLE FOR THE OBSERVATION OF THE SITEWORK AND FOOTING EXCAVATIONS PRIOR TO POURING FOOTINGS TO VERIFY THE BEARING STRATUM IS PROPERLY

PROVIDE WEATHER TIGHT COVERING FOR ALL FOUNDATIONS AFTER EXCAVATION; DO NOT EXPOSE TO RAINWATER OR FREEZING

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**EDWARD RESIDENCE:** 

SHEETS S0, S1.0, S1.1, S2.0, S2.1 S3.0, S4.0, S5.0, S5.1, S6.0, S7.0, S7.1



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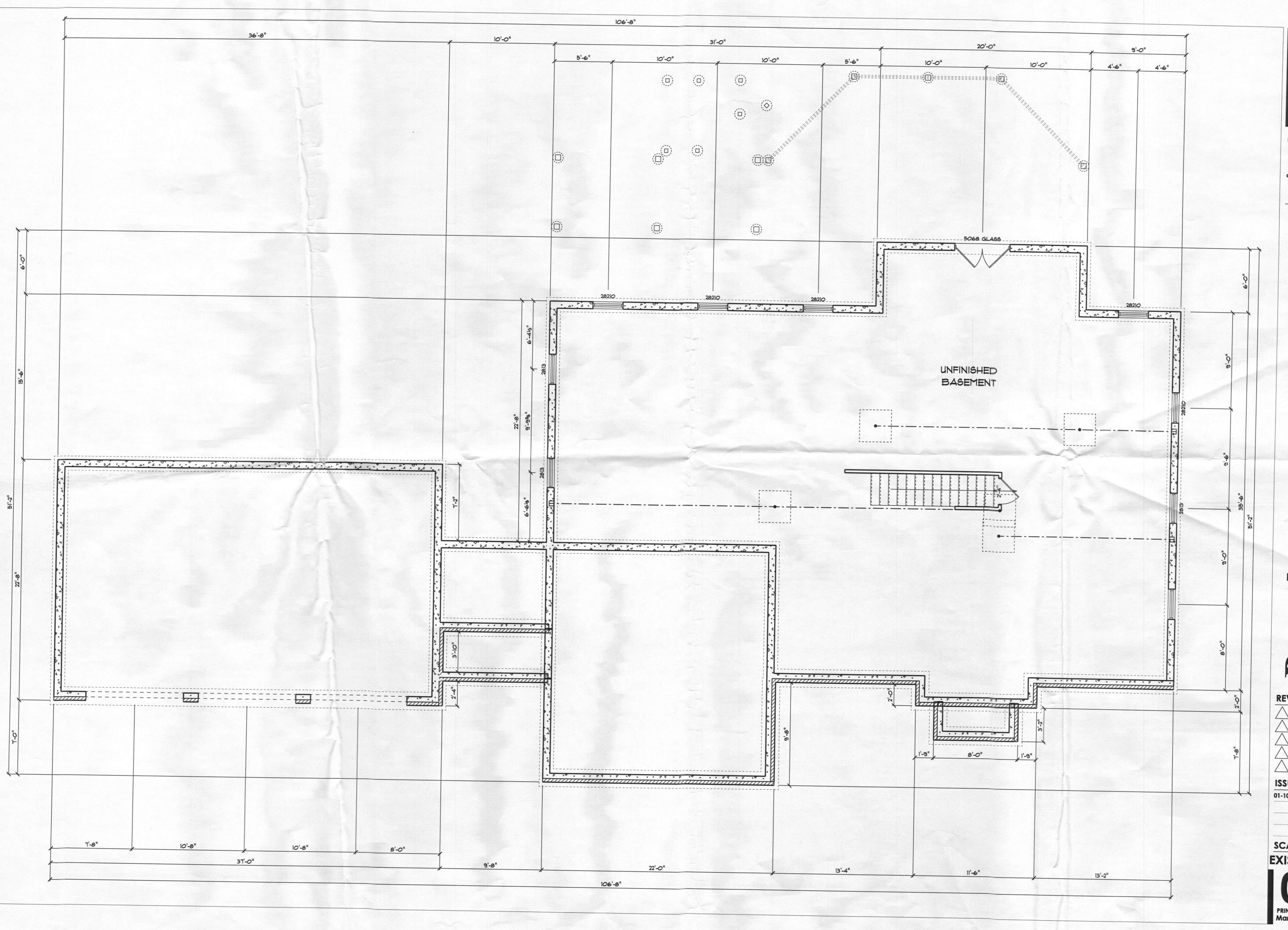
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SUMMARY

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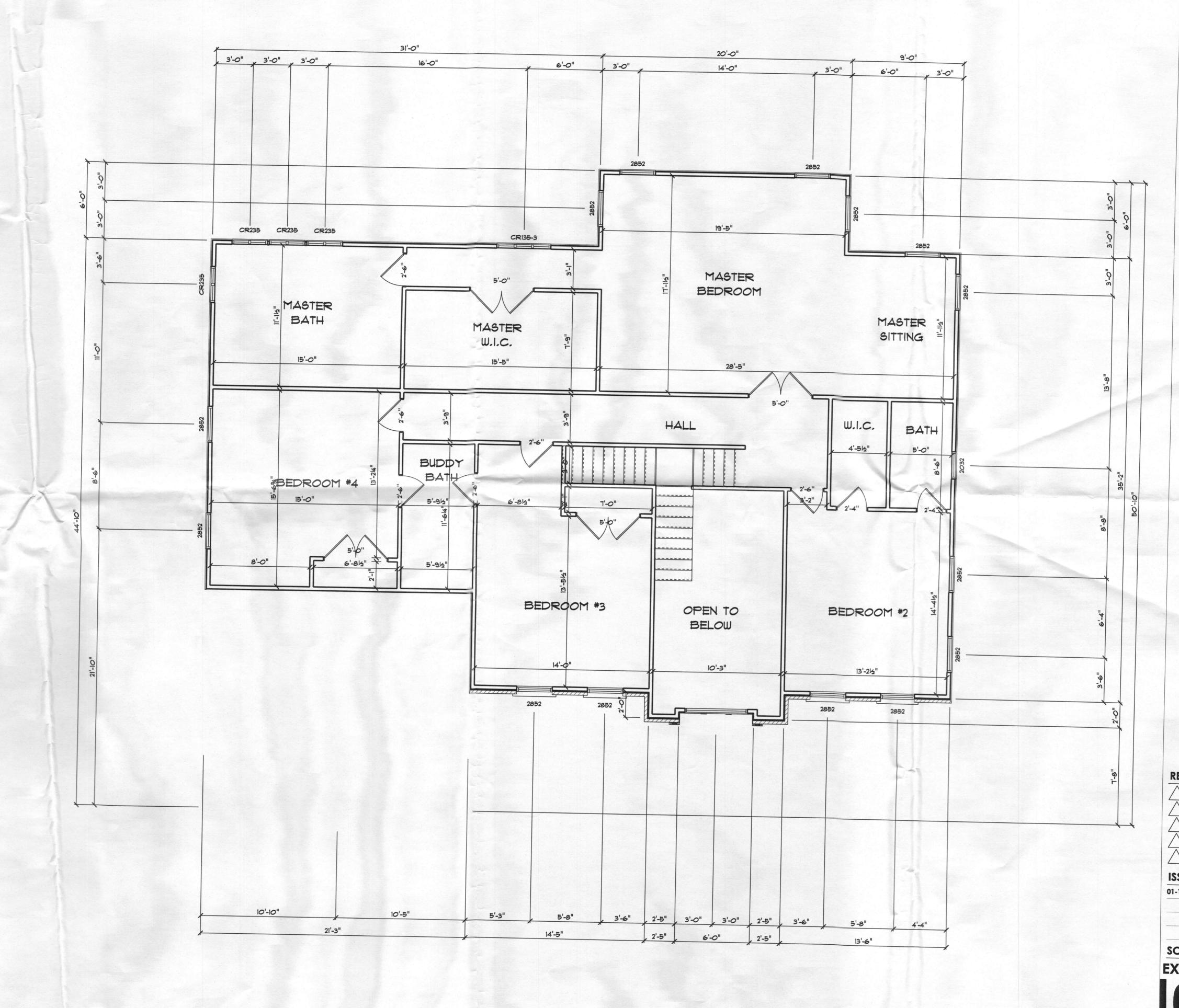
**REVISIONS** 

**ISSUE DATES:** 

01-10-12

**SCALE:** 1/8" = 1'-0"

**EXIST. BASEMENT** 

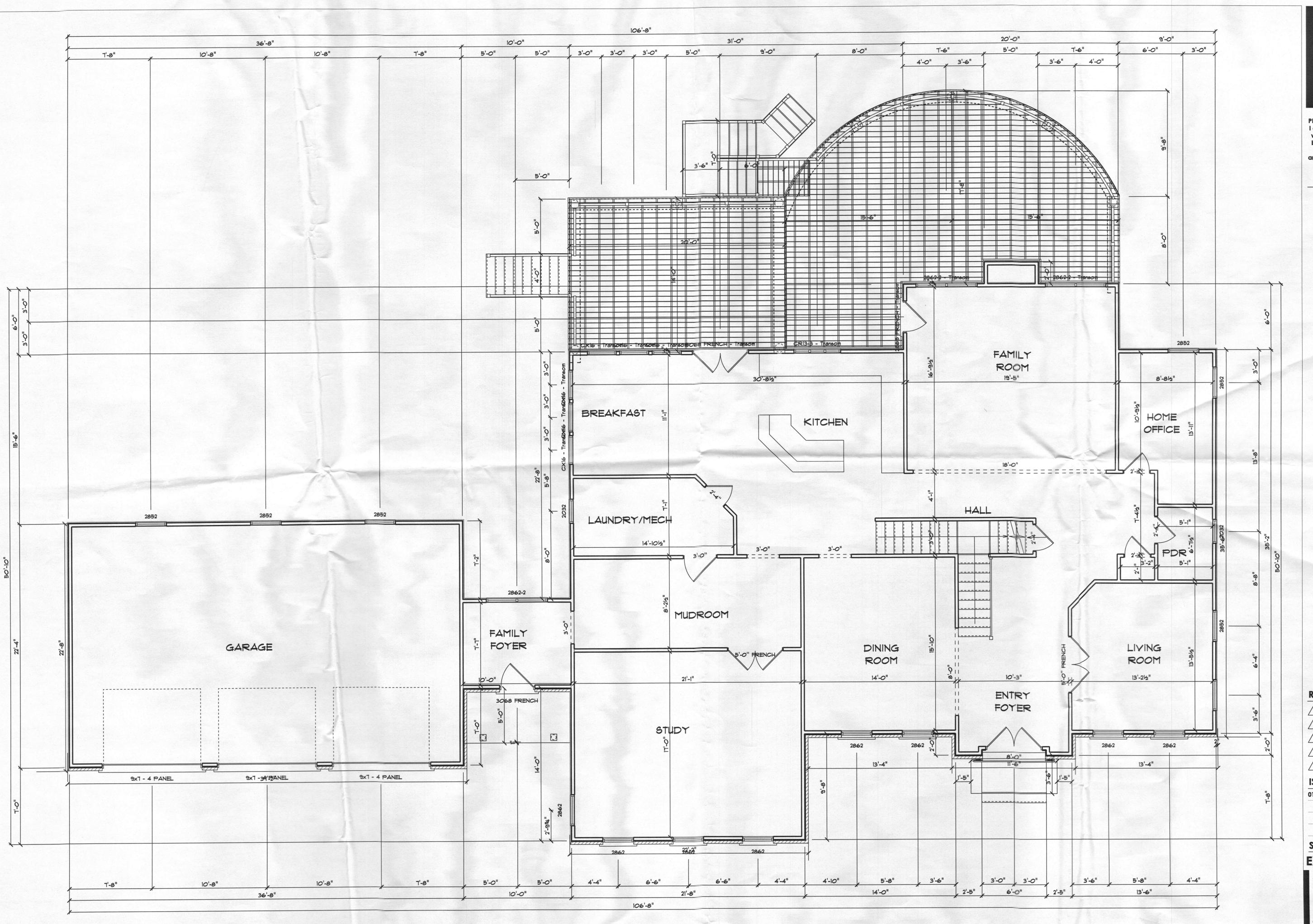


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REVISIONS ISSUE DATES:

SCALE: 1/8" = 1'-0"
EXIST. 2nd FLOOR





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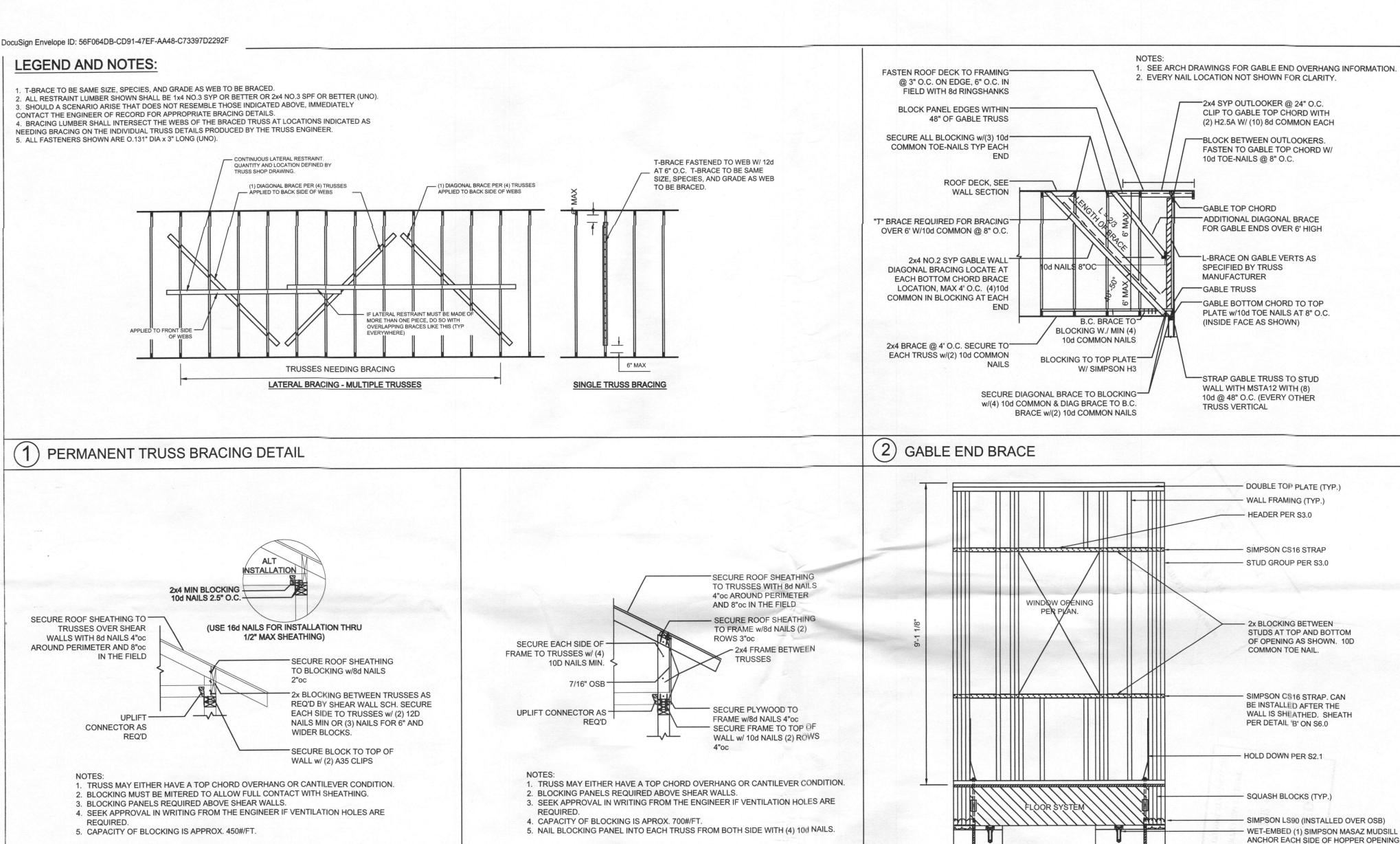
**REVISIONS** 

ISSUE DATES:

01-10-12

**SCALE:** 1/8" = 1'-0" **EXIST. 1st FLOOR** 

**ROOF END CONNECTION** 



**ROOF END CONNECTION** 

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BOLT PER S2.1

**HOPPER** 

FORCE TRANSFER SHEAR WALL DETAIL

6-5 1/2"

FOUNDATION

WALL

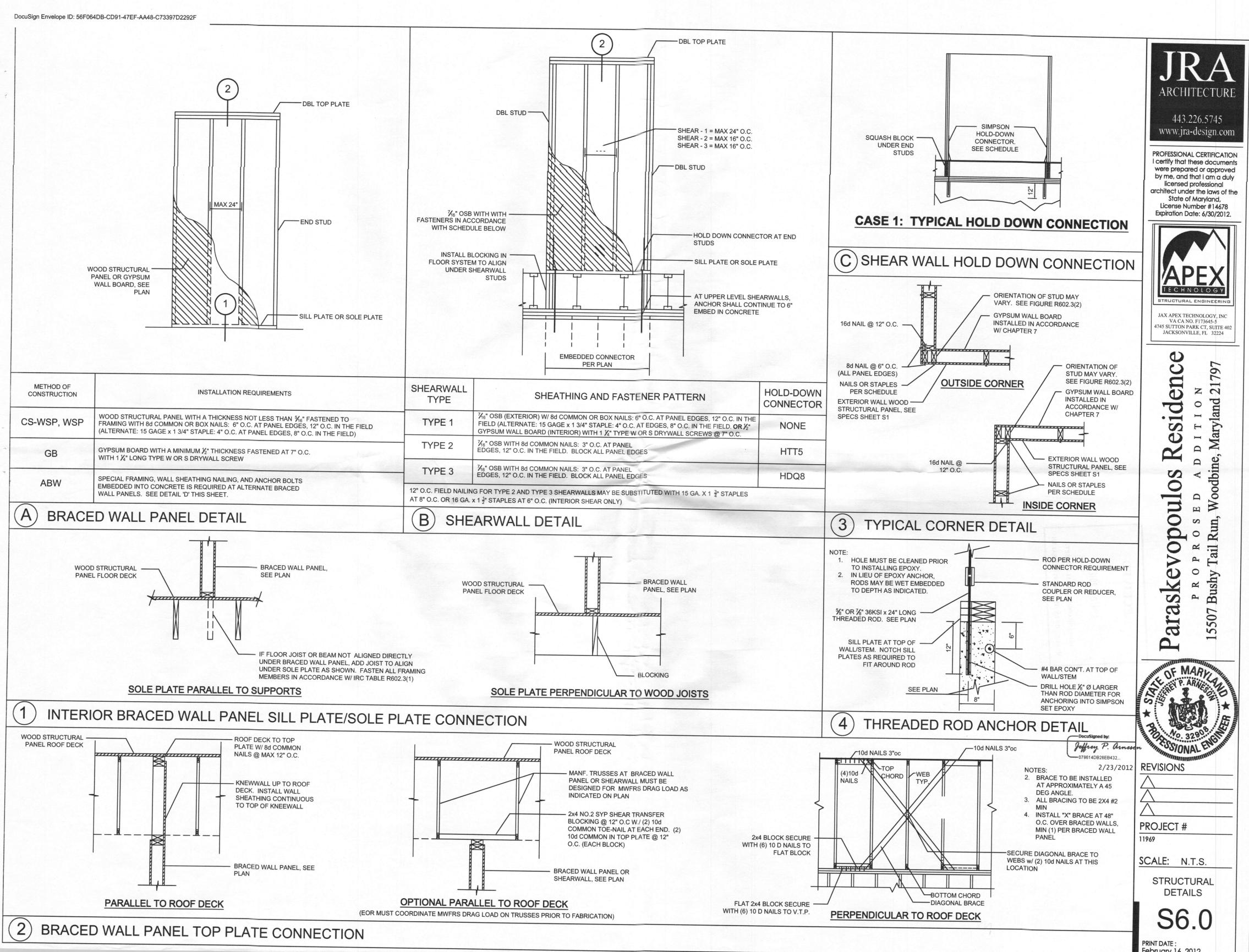
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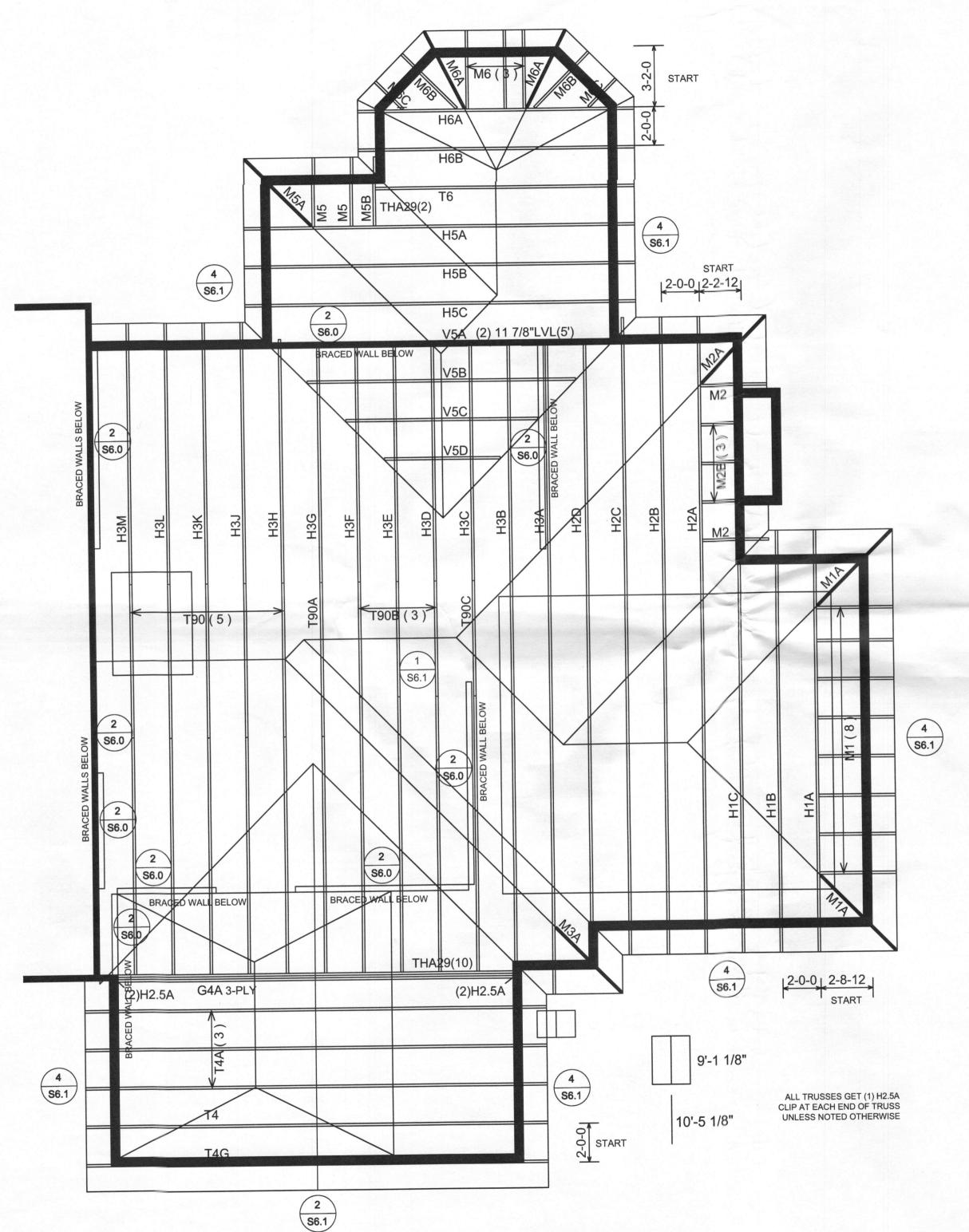
SCALE: N.T.S.

STRUCTURAL **DETAILS** 

S6.

PRINT DATE: February 16, 2012





#### **PLAN NOTES:**

SEE SHEET S-000 FOR GENERAL ROOF FRAMING REQUIREMENTS. SEE SHEET S-000 FOR TRUSS LOADING PROVISIONS.

## 3. PRE-ENGINEERED WOOD ROOF TRUSSES

ROOF TRUSSES FABRICATED TO ACHIEVE THE ROOF PLANES DEPICTED ON THE ARCHITECTURAL PLANS SHALL BE DESIGNED UNDER THE SUPERVISION OF A REGISTERED LOCAL PROFESSIONAL ENGINEER. ENGINEERING SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH ANSI/TPI-2002 AND SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO FABRICATION. DESIGN CRITERIA IS LOCATED ON SHEET SO OF THE PLAN SET. TEMPORARY BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE LEFT IN PLACE AFTER CONSTRUCTION IS COMPLETE.

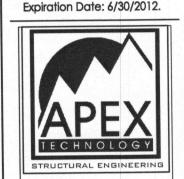
TRUSSES SHALL BE DESIGNED TO MATCH THE ORIENTATION, SPAN DIRECTION, SPACING, AND BEARING LOCATION OF THE LAYOUT SHOWN HERE.

#### TRUSS TO TOP PLATE CONNECTIONS

TRUSSES SHALL BE CONNECTED TO BEARING WALLS AND TRUSSES AS INDICATED ON PLAN.

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Jeffrey P. a. 2/23/2012



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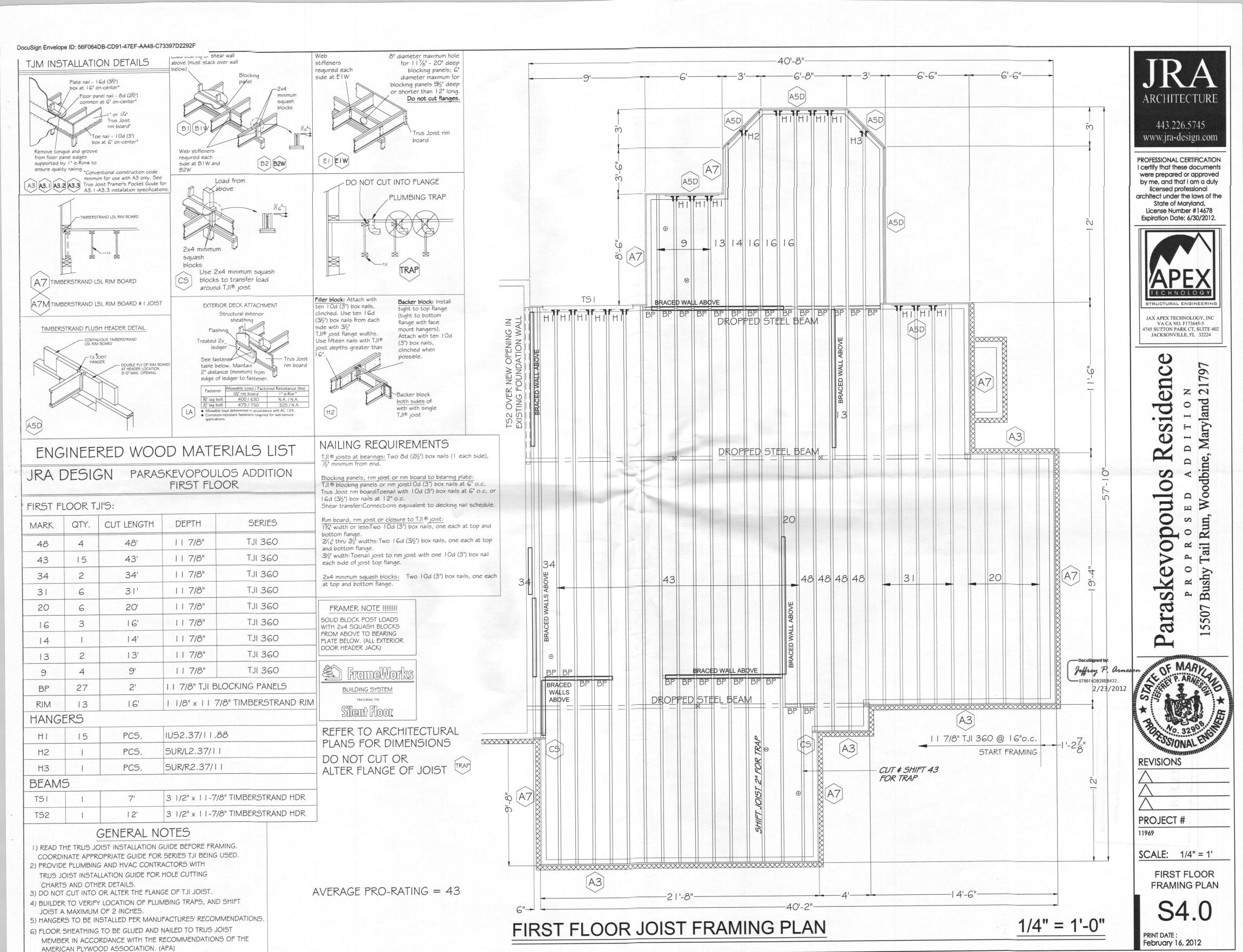
SCALE: 1/4" = 1'

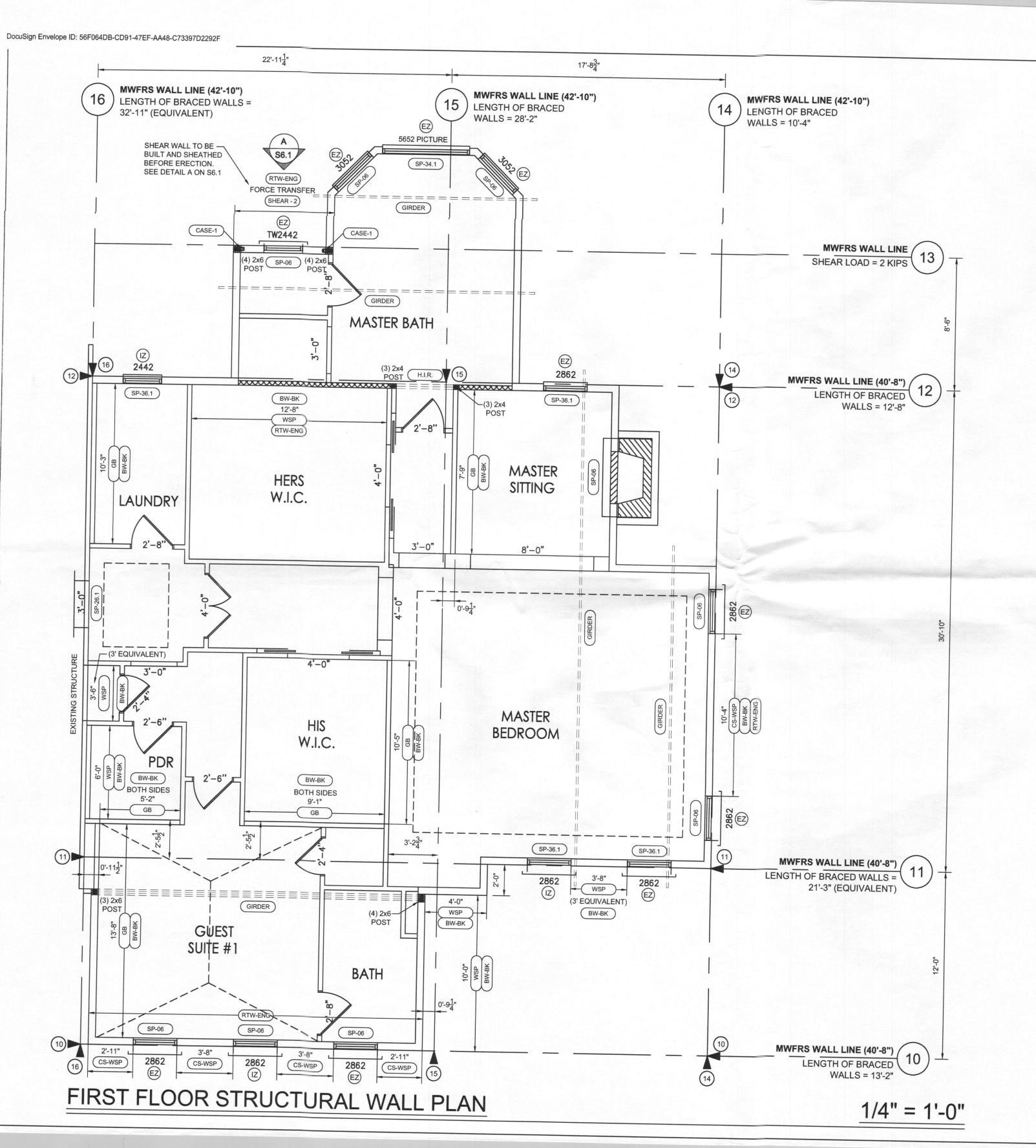
ROOF TRUSS FRAMING PLAN

S5.0

PRINT DATE: February 16, 2012

1/4" = 1'-0"





## **GENERAL PLAN NOTES:**

- FOR GENERAL NOTES AND KEYNOTE SPECIFICATIONS, SEE SHEET SO
- 2. IF HEADER NOT SPECIFIED, CONTACT ENGINEER OF RECORD
- FASTEN ALL MULTI-PLY/BUILT UP STUD COLUMNS UNDER BEAMS/GIRDERS W./ (2) ROWS 10d COMMON @ 8" O.C. STAGGERED
- ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY, UNO. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHER.
- 5. LENGTHS OF BRACED WALL PANEL SEGMENTS AND BRACED WALL LINES INDICATED ON STRUCTURAL PLANS ARE NOT TO BE USED FOR CONSTRUCTION. THESE DIMENSIONS ARE FOR CALCULATION PURPOSES ONLY. ALL FRAMING DIMENSIONS ARE TO BE TAKEN FROM ARCHITECTURAL PLANS.
- SPECIAL POSTS INDICATED ON PLAN ARE TO BE INSTALLED AS SUCH:
  - SAWN LUMBER POSTS ARE TO BE INSTALLED "IN LINE" WITH WALL PANEL. BEAM OR TRUSS TO BEAR ON NO.2 SYP FIELD APPLIED TOP PLATE.
  - WALL PANELS ARE DISCONTINUOUS AT ENGINEERED WOOD POSTS. TRUSS OR BEAM TO BEAR DIRECTLY OVER POST. SECURE ADJACENT WALL PANELS TO POST w/ 10d COMMON @ 8" O.C.

### **KEYNOTES:**

- BM-PKT BEAM POCKET INTO DBL STUD GROUP IN WALL, U.N.O.
- H.I.R. HEADER OR BEAM IN ROOF SYSTEM PER ROOF FRAMING PLAN,
- GIRDER GIRDER TRUSS ABOVE PER ROOF TRUSS FRAMING PLAN
- SP-06 (1) 2x6 NO.2 SYP PLANK HEADER
- SP-26.1 (2) 2x6 NO.2 SYP HEADER WITH (1) JACK POST SP-34.1 (3) 2x4 NO.2 SYP HEADER WITH (1) JACK POST
- SP-36.1 (3) 2x6 NO.2 SYP HEADER WITH (1) JACK POST
- PRESCRIPTIVE CONTINUOUSLY SHEATHED BRACED WALL IN ACCORDANCE WITH IRC SECTION R602.10.4
  - SP PRESCRIPTIVE INTERMITTENT BRACED WALL METHOD "WSP" AS DESCRIBED IN
- GB PRESCRIPTIVE INTERMITTENT BRACED
  WALL METHOD "GB" AS DESCRIBED IN
  IRC SECTION R602.10.2.1

IRC SECTION R602.10.2

- BW-BK BRACED WALL INDICATED ON PLAN REQUIRED TO HAVE 2x4 SPF BLOCKING AT HORIZONTAL JOINTS IN OSB/GYPSUM
- SHEAR # ENGINEERED SHEARWALL IN ACCORDANCE w/ 2009 INTERNATIONAL BUILDING CODE. SEE SPECS, SHEET SO AND DETAILS ON SHEET S6.0. USED ONLY AT PORTIONS OF STRUCTURE THAT DO NOT MEET THE BRACED WALL DESIGN REQUIREMENTS OF
- CASE-# POST TO FOUNDATION CONNECTION WITH METAL HOLD-DOWN STRAP OR CONNECTOR PER CASE NO. INDICATED ON PLAN. SEE DETAIL C/S6.0
- RTW-ENG TRUSS/BLOCKING TO TOP PLATE W./ 0.113" x 2 1/2" LONG TOE-NAIL @ 4" O.C.

THE 2009 IRC.

- TOP PLATE NAILING OF DBL TOP PLATE W./ 0.128" x 3" LONG NAIL @ 6" O.C. STAGGERED
- IZ/EZ ZONE DESIGNATION FOR WINDOW/ DOOR DESIGN PRESSURE. SEE TABLE 1-1, SHEET S0

Jeffrey P. Arne

2/23/2012

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PROJECT #

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SCALE: 1/4" = 1'

STRUCTURAL FLOOR PLAN

S3.0

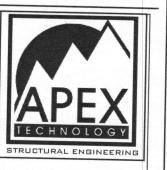
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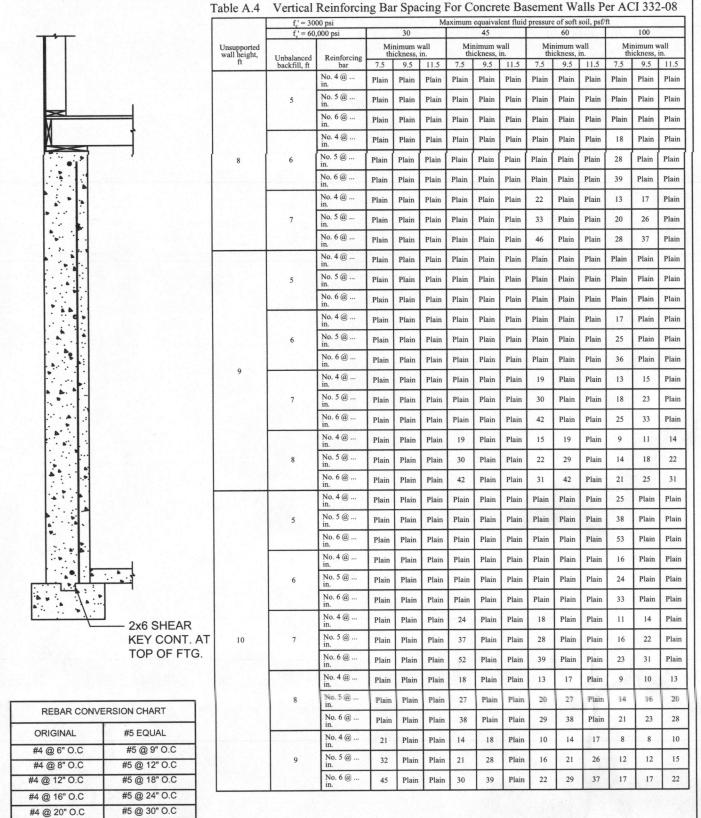
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# FOUNDATION WALL REINFORCEMENT SCHEDULE



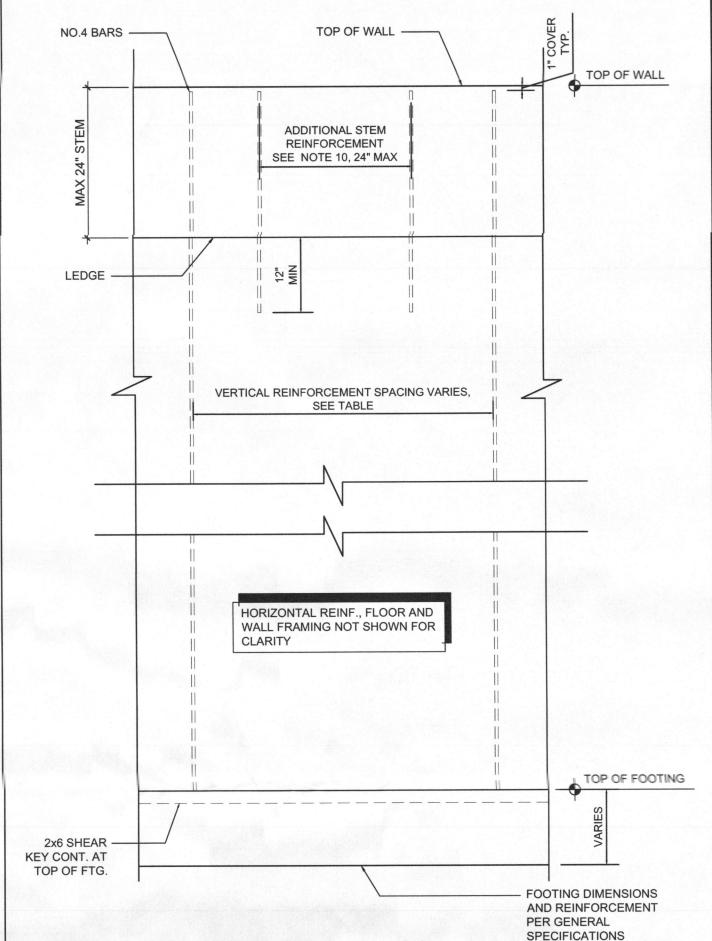
#### Table A.4 Notes:

1. Numbers in the table indicate spacing in inches of vertical reinforcing as indicated. The term "plain" in the table refers to concrete where minimum vertical reinforcement is required. Minimum reinforcement for all plain concrete walls is as follows:

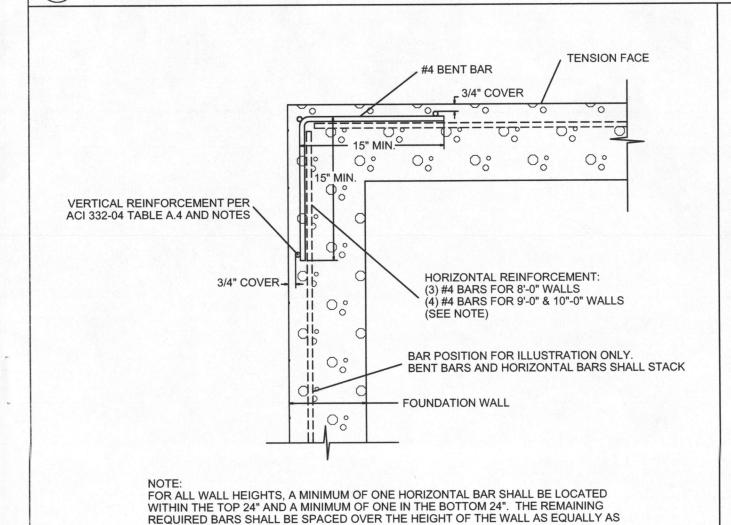
No.4 bar @ 36" o.c. No.5 or No.6 bar @ 48" o.c.

Additional vertical and horizontal reinforcing work is required per notes 5,7,8,9,10,11, and 12.

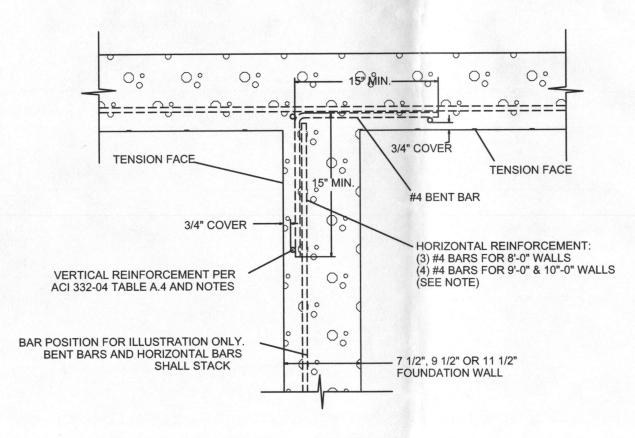
- 2. This table is applicable to walls of the specified height, unbalanced backfill height, equivalent fluid pressure of soil, concrete strength, and the yield strength of reinforcement. Foundation walls shall have functioning foundation drains and weep holes to prevent development of hydrostatic head at the wall face. Foundation walls shall be waterproofed or dampproofed in accordance with the current adopted edition of the International Residential Code or local Code requirements. Prior to application of any required waterproofing or darnpproofing, fins or projections of concrete greater than 1/2" shall be removed after stripping forms. Bug holes over 1/2" deep, honeycombing, voids, and areas where reinforcement is exposed shall be repaired.
- 3. This table is applicable only when the structure Is not assigned to Seismic Design Category D, E, or F
- 4. Values in this table were reproduced directly from Table A.4 of ACI 332-04. All engineering data in this table was developed by the Committee responsible for ACI 332-04 "Requirements Far Residential Concrete". Construction of walls detailed using this table shall conform to the requirements of ACI 332-04. Wood frame wall plates shall be anchored to foundation walls in accordance with the current adopted edition of the International Residential Code or local Code requirements.
- 5. Horizontal Reinforcement for Plain & Reinforced Walls: 8'-0" tal1 walls (3) # 4 bars, 9'-0" & 10'-0" tall walls (4) # 4 bars. A minimum of one horizontal bar shall be located within the top 24" and a minimum of one in the bottom 24" of the wall, The remaining required bars shall be spaced over the height of the wall as equally as practical. Provide minimum 24" lap splices unless otherwise noted. Provide bent bars at corners, wall intersections, and wall offsets. The horizontal reinforcement shall be secured as close as practical to the tension face of the wall, but behind vertical reinforcement where present. At corners, horizontal reinforcement shall extend around comers and lap reinforcement a minimum of 30 bar
- 6. Slab-on-grade shall be installed and cured to a minimum compressive strength of 1,700 psi prior to backfill placement. First floor framing shall be installed prior to backfill placement in excess of 4 feet above footing elevation. Frame to foundation wall anchors shall be per the current adopted edition of the International Residential Code or equal. Concrete compressive strength: minimum 3,000 psi at 28 days. Foundation wall concrete compressive strength shall be a minimum of 1,700 psi prior to backfilling in excess of 4 feet above footing elevation. All reinforcing steel shall be Grade 60.
- 7. Wall-to-Footing Connection: The wall-to-footing connection shall consist of a No. 4 reinforcing bar dowel that extends at least 12" into the wall and 6" into the footing, spaced at a maximum of 24" on-center along the footing. To facilitate positioning before concrete placement, vertical dowels are permitted to be driven into the grade in the bottom of the footing.
- 8. Unsupported Footing Span: Where an unsupported wall footing section does not exceed a 3 ft. span, a minimum of two No. 4 reinforcement bats shall be placed in the bottom of the footing and extend at least 18" into the supported sections on both sides. Reinforcement ban shall have a minimum cover of 3" from the sides and bottom of the footing. Unsupported footing sections with spans exceeding 3 ft. are not permitted and require an independent structural design.
- 9. Discontinuous Wall Footings: Where a wall footing is discontinuous due to an abrupt elevation change (step), the maximum horizontal discontinuity of the wall footing not exceed 4'. In addition, the reinforcement in the foundation wall at such a location shall conform to the following: (a) At discontinuous wall footings, where wall footing elevation change is greater than twice the footing thickness, place a minimum of two No. 4 horizontal reinforcing bars, one at the top and the other at the bottom of the wall, in addition to other required wall reinforcement. These bars shall extend at each end at least 36" into the wall portion supported directly by the top and bottom wall footings. (b) The bars shall be placed in the middle third of the wall thickness.
- 10. Reduction of Wall Thickness: The thickness of the top of a foundation wall shall be permitted to be reduced to accept masonry and stone finishes. The height of the reduced thickness section shall not exceed 24". The reduced thickness section shall comply with (a) and (b): (a) Unless otherwise determined by a registered professional engineer, reduced wall thickness shall not be less than 3-1/2"; and (b) Where the wall thickness is reduced, a minimum of one vertical No. 4 reinforcing bar spaced at 24 in. on center along the length of the reduced wall section shall be placed at the tension face of the wall. This bar shall extend a minimum of 12" into the full thickness wall section, and full height into the reduced thickness section. Additional wall reinforcing requirements, at sections of reduced wall thickness, are permitted to include vertical reinforcing bars in fulfillment of the additional reinforcement. requirement. If the vertical bar spacing is greater than the additional wall reinforcing requirements, add straight bars, in addition to the vertical wall reinforcement, to meet the additional reinforcement spacing requirements at wall sections of reduced wall thickness.
- 11. Cast-in-Place Lintels: Lintel beams that conform to the empirical requirements given in (a) through (c) shall be permitted: (a) Lintel beam depth shall be not less than 8"; (b) Lintel beam span shall not exceed 40"; and (c) A minimum of two No. 4 longitudinal reinforcing bars shall be placed at the bottom, extending 24" into the wall at each end. Concrete cover to the bottom OF the lintel shall be 1-1/2"
- 12. Reentrant Comers: Where a wall opening, or an abrupt elevation change greater than 8" in top or bottom of wall, creates a reentrant comer, a minimum of one 24" long No. 4 reinforcing bar shall be placed diagonally within 1-1/2" to the reentrant corner. The bar shall be centered in the wall thickness
- following minimum requirements: (a) Concrete cast directly against earth: 3"; (b) Concrete directly exposed to earth or weather: 1-1/2"; (c) Concrete coated with exterior grade paint, code compliant waterproofing systems, or not exposed to weather: 3/4". The tolerance on concrete cover shall be + 3/8". 13. Concrete Cover for Reinforcement: All installed reinforcement shall have concrete cover meeting the



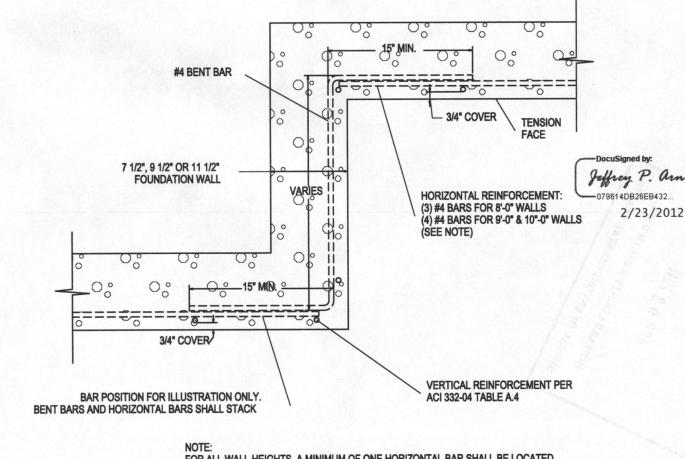
TYPICAL VERTICAL WALL REINFORCING



VERTICAL WALL REINFORCING SPECIFICATIONS



FOR ALL WALL HEIGHTS, A MINIMUM OF ONE HORIZONTAL BAR SHALL BE LOCATED WITHIN THE TOP 24" AND A MINIMUM OF ONE IN THE BOTTOM 24". THE REMAINING REQUIRED BARS SHALL BE SPACED OVER THE HEIGHT OF THE WALL AS EQUALLY AS



FOR ALL WALL HEIGHTS, A MINIMUM OF ONE HORIZONTAL BAR SHALL BE LOCATED WITHIN THE TOP 24" AND A MINIMUM OF ONE IN THE BOTTOM 24". THE REMAINING REQUIRED BARS SHALL BE SPACED OVER THE HEIGHT OF THE WALL AS EQUALLY AS PRACTICAL.

REINFORCING AT "Z" INTERSECTIONS

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PROFESSIONAL CERTIFICATION I certify that these documents were prepared or approved by me, and that I am a duly licensed professional architect under the laws of the State of Maryland, License Number #14678 Expiration Date: 6/30/2012.



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Maryland 0 Woodbine, 0 0 Run, 0 Tail 0 Bushy 0 0 S ara 15507

A P. ARNES **REVISIONS** 

PROJECT # 11969

SCALE: N.T.S.

FOUNDATION **DETAILS** 

PRINT DATE: February 16, 2012

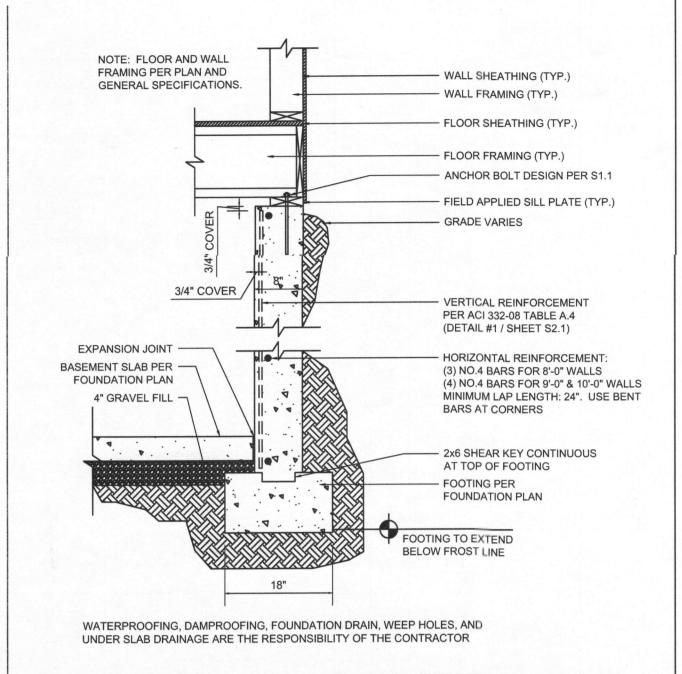
CORNER REINFORCING DETAIL

PRACTICAL.

#5 @ 36" O.C

#4 @ 24" O.C

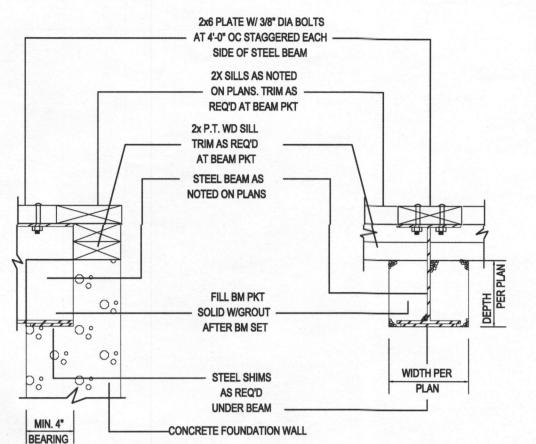
REINFORCING AT "T" INTERSECTIONS



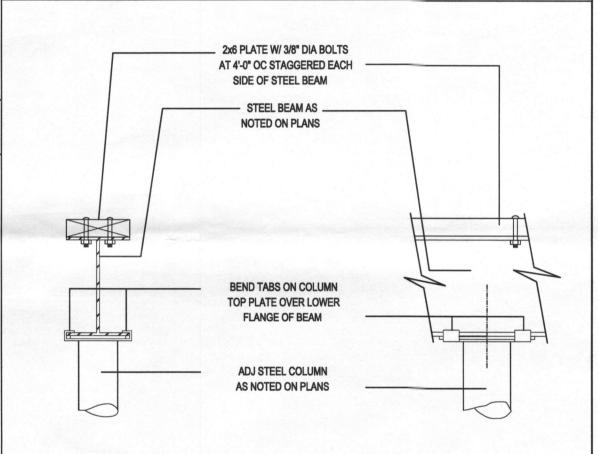
FOUNDATION WALL SECTION (TYP.)

NOTE: FLOOR AND WALL FRAMING PER PLAN AND WALL SHEATHING (TYP.) GENERAL SPECIFICATIONS. WALL FRAMING (TYP.) BRICK BY OTHERS FLOOR SHEATHING (TYP.) FLOOR FRAMING (TYP.) ANCHOR BOLT DESIGN PER S1.1 -GROUT SOLID BEHIND GRADE FIELD APPLIED SILL PLATE (TYP.) TOP OF BRICK LEDGE TO BE FIELD DETERMINED **GRADE VARIES** VERTICAL REINFORCEMENT PER ACI 332-08 TABLE A.4. ADDITIONAL STEM REINFORCEMENT PER ACI 32-08 TABLE A.4, NOTE 10 (DETAIL #1 / SHEET S2.1) 3/4" COVER **EXPANSION JOINT** HORIZONTAL REINFORCEMENT: BASEMENT SLAB PER (3) NO.4 BARS FOR 8'-0" WALLS **FOUNDATION PLAN** (4) NO.4 BARS FOR 9'-0" & 10'-0" WALLS MINIMUM LAP LENGTH: 24". USE BENT 4" GRAVEL FILL BARS AT CORNERS 2x6 SHEAR KEY CONTINUOUS AT TOP OF FOOTING FOOTING PER **FOUNDATION PLAN** FOOTING TO EXTEND BELOW FROST LINE WATERPROOFING, DAMPROOFING, FOUNDATION DRAIN, WEEP HOLES, AND UNDER SLAB DRAINAGE ARE THE RESPONSIBILITY OF THE CONTRACTOR

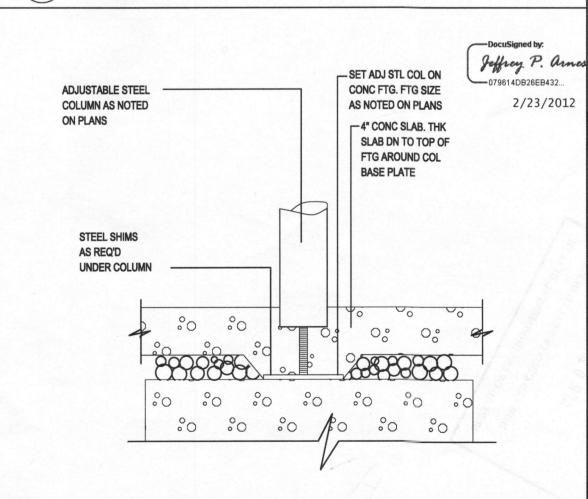
FOUNDATION WALL SECTION WITH BRICK LEDGE



STEEL BEAM POCKET DETAIL



**BEAM / COLUMN DETAIL** 



COLUMN / FOOTING DETAIL





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15507 **REVISIONS** 

PROJECT # 11969

SCALE: N.T.S **FOUNDATION** 

S2.0

DETAILS

PRINT DATE: February 16, 2012