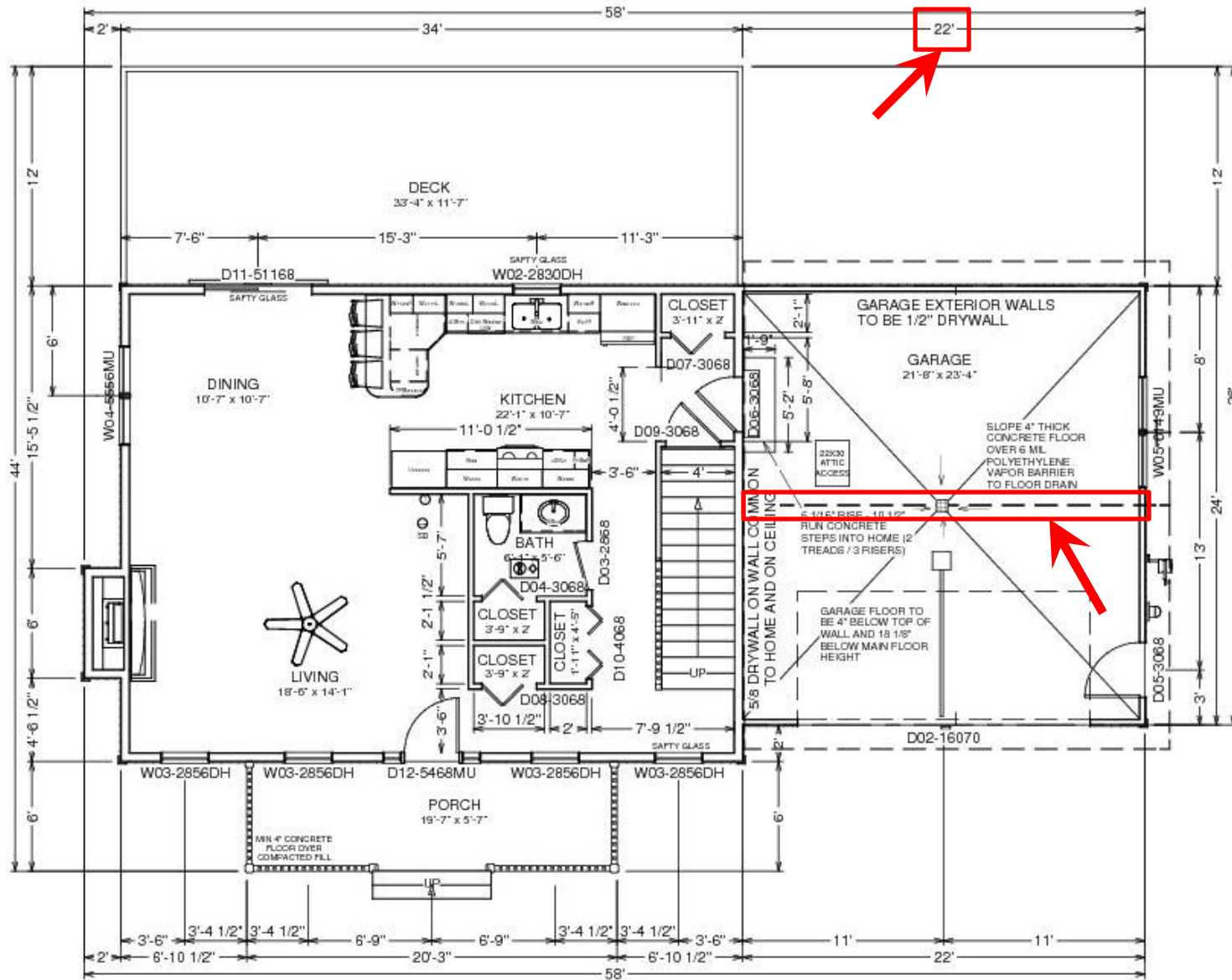


## Question #1

**Estimate the linear feet of ridge vent needed for this house.  
Do not include overhangs?**

- a. 54' - 56'
- b. 66' - 68'
- c. 70' - 72'
- d. 77' - 79'



MAIN FLOOR PLAN

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Sheet Title:  
MAIN FLOOR

#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

While great care and effort has been taken in the design, drafting and detailing for services of the architect, SC Consulting, LLC cannot guarantee against human error. Client(s) general contractor and subcontractors are responsible to verify all dimensions, materials, quantities and correct any omissions, errors and to local governing laws, regulations, and building codes before beginning construction.

Scale: 1/8" = 1'

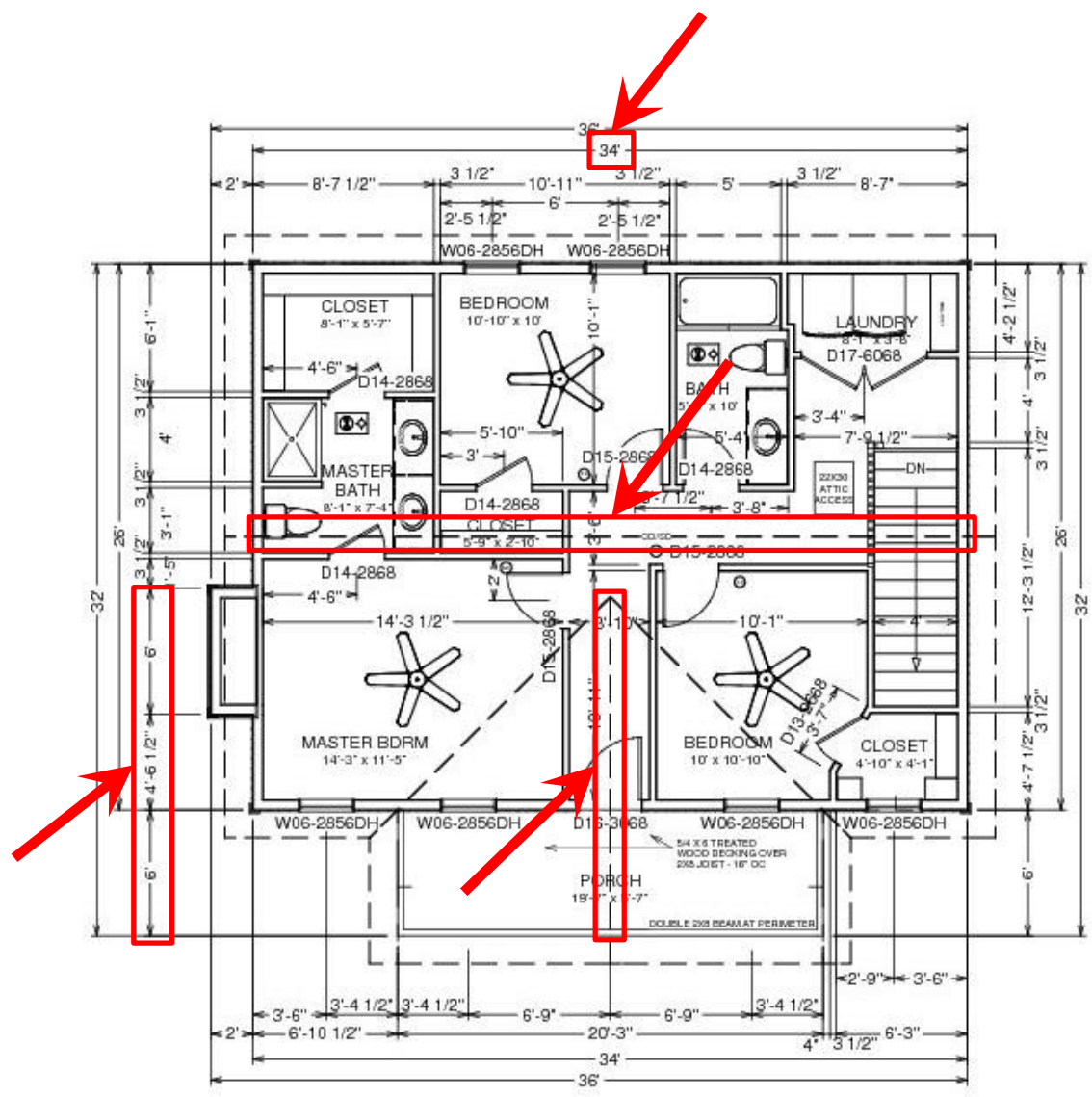
Sheet # 7

#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

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Scale: 1/8" = 1'

Sheet # 8



Answer:  $22' + 34' + 16' - 6 \frac{1}{2}'' = 72' - 6 \frac{1}{2}''$ , with the hold back: 70' - 72'

SECOND FLOOR PLAN

## Question #1

### Logic:

1. Look at the main floor plan, find the dashed ridge line in the center of the garage, this ridge is the same length as the garage at 22'.
2. Next look at the second floor plan, find the dashed ridge line in the center of the house, this ridge is the same length as the second floor at 34'.
3. Now look at the second floor plan, find the dashed ridge line at the center of the front porch, the exact dimension is not given, so we will estimate it at:
  - a. Porch width: 6'
  - b. Corner of house to chimney: 4' 6 ½"
  - c. Chimney width: 6'
  - d. Total porch ridge:  $6' + 4' - 6 \frac{1}{2}'' + 6' = 16' 6 \frac{1}{2}''$

The ridge vent on the porch needs to be held back from where the porch ridge meets the main roof.

**Answer:**  $22' + 34' + 16' 6 \frac{1}{2}'' = 72' 6 \frac{1}{2}''$ , with the hold back **70' to 72'**

## Question #2

How many cubic yards of concrete will it take to pour the garage floor slab?

- a. 158 - 160
- b. 151 - 153
- c. 5.5 – 5.7
- d. 5.9 - 6.1

**EROSION CONTROL NOTES:**

INSTALL SILT FENCE PRIOR TO ANY EXCAVATION OR CONSTRUCTION

MINIMIZE SITE DISTURBANCE BY TIGHT CONTROL OF EXCAVATION LIMITS.

ALL EXPOSED SOIL SHALL BE MULCHED WITH STRAW OR WOOD CHIPS TO MINIMIZE SOIL EROSION. NO SOIL SHALL BE LEFT IN AN EXPOSED CONDITION. IT IS RECOMMENDED THAT THE CONTRACTOR MAINTAIN A STOCK PILE OF THIS MATERIAL ON SITE FOR QUICK APPLICATION.

DISPERSION TRENCHES SHALL OVERFLOW ONTO NATIVE UNDISTURBED GROUND. NO SITE DISTURBANCE BELOW TRENCHES.

**FOUNDATION NOTES:**

ALL FOOTINGS TO REST ON CLEAN, FIRM UNDISTURBED SOIL. STEP FOOTINGS AS REQUIRED TO MAINTAIN REQUIRED DEPTH BELOW FINISH GRADES.

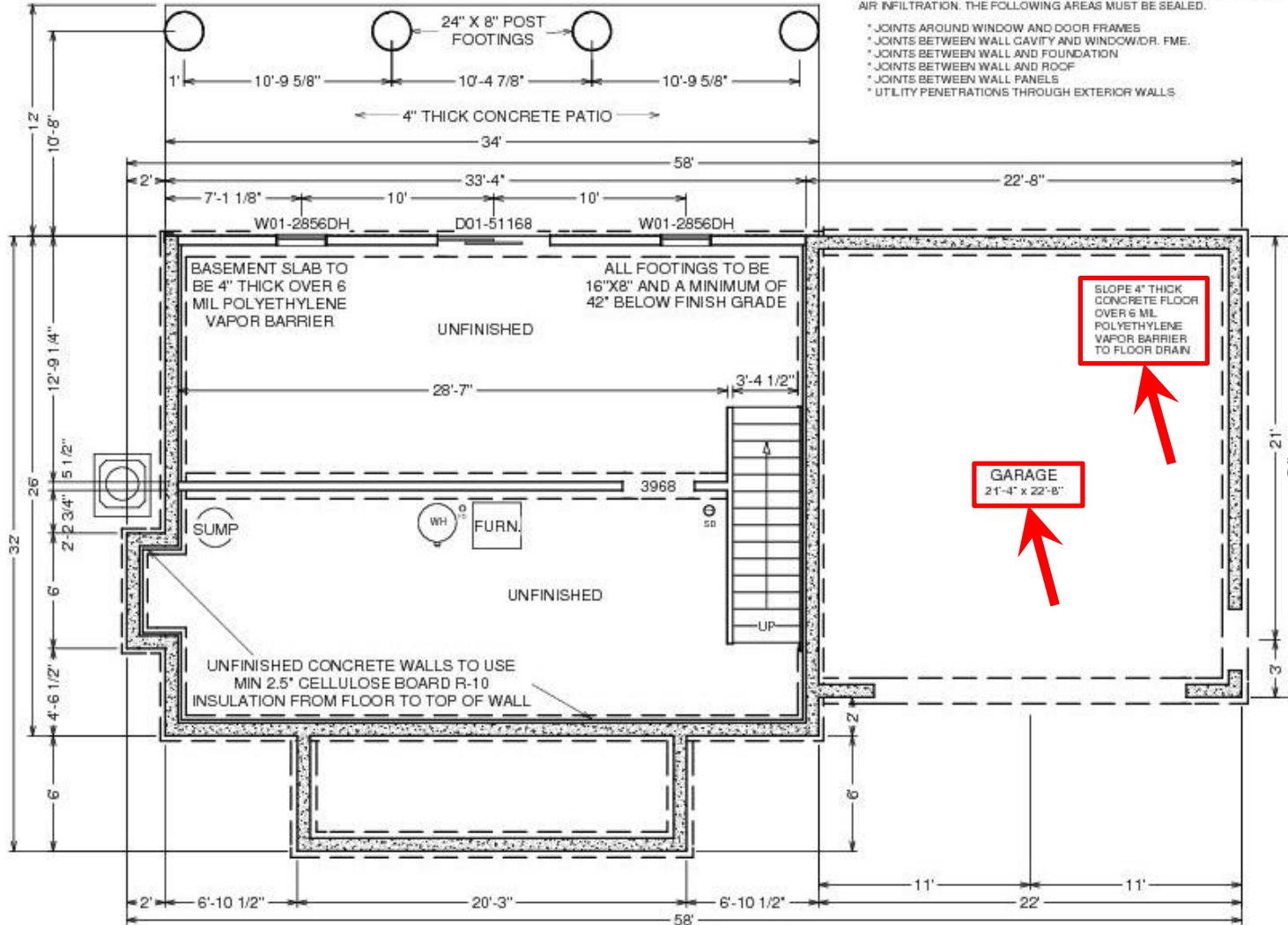
CONCRETE STRENGTH:  
 3,000 PSI AT 28 DAYS FOR FOOTINGS AND BASEMENT FLOOR  
 5,000 PSI AT 28 DAYS FOR FOUNDATION WALLS  
 3,500 PSI AT 28 DAYS FOR GARAGE FLOOR, DR/NEWAY, SIDEWALKS, PORCH, AND PATIO  
 MAXIMUM SLUMP, 4"

USE ASTM A-615 GRADE 60 DEFORMED REINFORCING BARS UNLESS NOTED OTHERWISE

CONCRETE EXPANSION ANCHORS SHALL BE 'SIMPSON WEDGE-ALL STUD ANCHORS' OR ENGINEER APPROVED EQUAL. EPOXY TO BE SIMPSON 'SET' ADHESIVE OR APPROVED EQUAL.

INFILTRATION, ALL OPENINGS IN THE EXT. BLDG. ENVELOPE SHALL BE SEALED AGAINST AIR INFILTRATION. THE FOLLOWING AREAS MUST BE SEALED.

- \* JOINTS AROUND WINDOW AND DOOR FRAMES
- \* JOINTS BETWEEN WALL CAVITY AND WINDOW/DR. FME.
- \* JOINTS BETWEEN WALL AND FOUNDATION
- \* JOINTS BETWEEN WALL AND ROOF
- \* JOINTS BETWEEN WALL PANELS
- \* UTILITY PENETRATIONS THROUGH EXTERIOR WALLS



FOUNDATION PLAN

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Sheet Title:  
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#	Date	Issue Description	Construction Final
1	3/12/2012		
2			
3			

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Scale: 1/8" = 1'

Sheet # 6



## Energy Efficiency

### Interior Trim

1. All interior trim is to be pre-primed paint grade MDF.
2. All interior trim shall meet the following:
  - a. Base size: 4 1/4" x 7/16"
  - b. Case size: 3 1/4" x 11/16"
  - c. Style: Colonial
  - d. Factory finish: Pre-primed
  - e. Field finish: White Acrylic Latex paint, semi-gloss
  - f. Joint treatment: Caulk all joints and nail holes
  - g. Fastening method: Face nailing

### Smoke and CO Alarms

1. All smoke alarms must comply with Section R314
2. All CO alarms must comply with Section R315
3. All smoke and CO alarms will be interconnected, AC powered with battery back-up
4. See floor plan for alarm locations

### Fire blocking

1. All fire blocking must comply with R302.11
2. All fire blocking materials must comply with R302.11.1 and R302.11.1.1 thru R302.11.1.3
3. Fire blocking must be provided at the following locations:
  - a. In concealed spaces of stud walls and partitions, including furred at the ceiling and floor levels and at 10' intervals both horizontal and vertical.
  - b. At all interconnections between horizontal and vertical spaces such as occur at soffits over cabinets, drop ceilings, cove ceilings and similar locations.
  - c. In concealed spaces between stair stringers at the top and bottom of the run
  - d. At openings around vents, pipes, ducts, chimneys, and fireplaces at ceiling and floor levels with noncombustible materials.

### Garage/Driveway/Porch/Patio/Sidewalk

1. All concrete floors must comply with R309.1, R402.2, R506
2. All garage floors, porch floors, driveways, patios, and sidewalks shall be a minimum 3500psi compressive strength air entrained concrete constructed over a clean sand base course.
3. The driveway and sidewalk portion as specified on the site plan shall be 6" thick slab
4. The garage, porch and patio shall be a 4" thick slab
5. The garage slab shall be over a 6 mil polyethylene vapor barrier

### Deck and Upper Floor Porch

1. Deck and upper floor porch shall constructed to meet or exceed American Wood Council, Design for Code Acceptance #6 (DCA 6), Prescriptive Residential Wood Deck Construction Guide
2. Finish skirt board applied around deck and upper floor porch to hide joists and beams.

### Insulation

1. All insulation must comply with the 2009 MUEC prescriptive approach and Section R315
2. All insulation shall meet the following:
  - a. Basement Wall: R-10, 2.5" thick cellulose board
  - b. Walkout Basement slab: R-10, 2" thick XPS on interior of frost wall, down 2' - top of XPS cut at 45 degree angle to allow basement floor to meet foundation wall
  - c. Wall cavities: R-20, Dense packed dry applied Cellulose.
  - d. Flat ceiling cavities: R-49, loose fill Cellulose
  - e. Attic hatch: R-38 + R-11 batts, for 24' O.C, securely fastened in place
  - f. Fenestrations: U Factor of 0.35 or lower

### Air Sealing

1. All air sealing must comply with the 2009 MUEC, Section 402.4
2. Air sealing verification shall be a visual inspection per Section 402.4.2.2
3. Building Envelope, all of the following will be caulked, gasketed, weatherstripped, or otherwise sealed with an air barrier material:
  - a. All joints, seams, and penetrations
  - b. Window and door rough openings
  - c. Utility penetrations
  - d. Knee walls
  - e. Wall and ceilings separating a garage from a conditioned space
  - f. Behind tubs and showers on exterior walls
  - g. Attic hatch will sealed with foam rubber weather strip tape per 402.2.3
  - h. Fireplace shall have door gasket per 402.4.3
4. All recessed lighting will be of type IC air tight construction

### Electrical/Lighting

1. All lighting will be high efficiency per Section 404 of the 2009 MUEC

### Mechanical/HVAC

1. 95% efficient natural gas forced air furnace with a 2 stage burner and a variable speed blower
  - a. Furnace shall be sized per M1401.3
2. 13 SEER air conditioner
3. A programmable thermostat shall be installed to control HVAC system
4. All duct joist must be sealed with foil peel and stick tape or duct mastic conforming to UL181

### Exhaust Fan

1. All exhaust fans must comply with Section R303, Section M1507, MUEC section 403.5, and manufactures installation instructions.
2. All bathroom exhaust fans are to be fan/light combination units with each function switched individually. The exterior color is to be white. The fan is to be rated at 110 CFM or greater, with the exhaust ducting terminated at the exterior of the structure. The fan will have an integrated gravity damper to close the system when on in use.

### Electrical Panel Certification

1. A permanent certificate shall be posted on or in the electrical distribution panel per 2009 MUEC Section 401.3

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Sheet Title:  
NOTES

Issue Description	Construction Final		
Date	3/12/2012		
#	1	2	3

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Scale: 1/8" = 1'

Sheet # 4

## Question #2

### Logic:

1. Look at the foundation plan, find the interior dimensions of the garage under the word GARAGE, they are 21' 4" by 22' 8"
2. Now look at the foundation plan, to find the thickness of the concrete from the note in the garage which calls for a 4" slab?

### Math:

All units of measurement need to be converted to feet so that all of the math is calculated in the same units.

$$4'' \div 12 = .33'$$

$$8'' \div 12 = .666' \text{ rounded up to } .67'$$

### Answer:

$$21.33' \times 22.67' \times .33' = 159.57 \text{ cubic feet.}$$

To convert cubic feet to cubic yards, divide by 27

$$159.57 \div 27 = 5.91 \text{ cubic yards.}$$

**5.91 cubic yards**



### **Question #3**

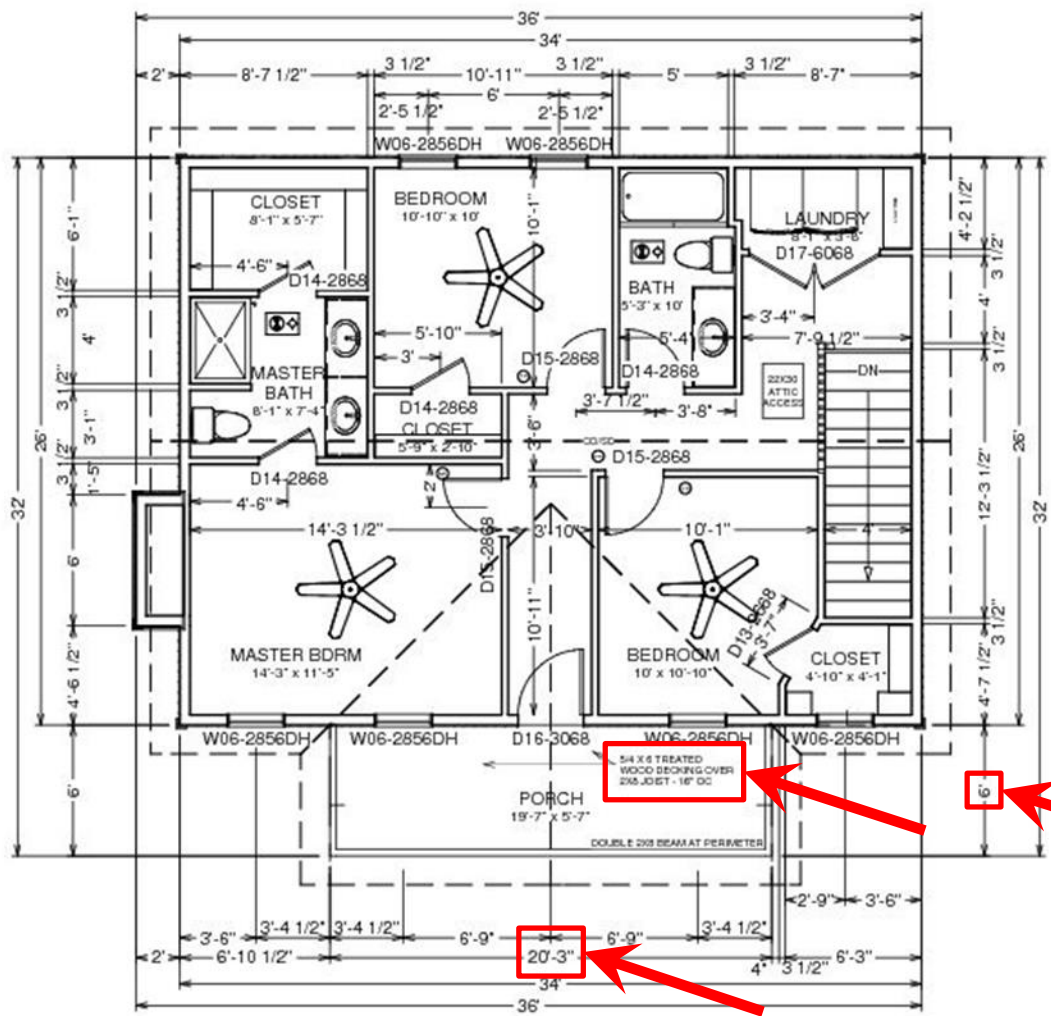
**How many linear feet of 2" x 8" floor joist is needed to construct the second floor covered porch floor?**

- a. 97 - 103**
- b. 90 - 93**
- c. 94 – 96**
- d. 122 - 124**

#	Date	Issue Description
1	3/12/2012	Construction Final
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3		

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Scale: 1/8" = 1'



SECOND FLOOR PLAN

## Question #3

### Logic:

1. Look at the second floor plan, find the dimensions of the porch, the porch is 20' 3" (243") by 6'.
2. Next look at the second floor plan, in the porch area, find the note that calls for 2"x 8" joists 16" O.C.

### Math:

3. Length of each joist: 6'
4. Number of joists:  $243'' \div 16 = 15.19$  spaces, round up to 16 spaces.  
Add 1 from spaces to get number of joists:  $16 + 1 = 17$  joists
5. Lineal feet of joist material:  $17 \times 6' = \underline{\mathbf{102'}}$

## Question #4

**What is between the siding and the wall sheathing?**

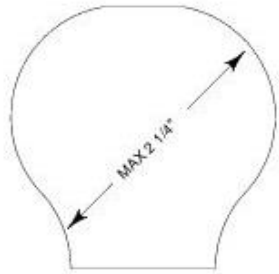
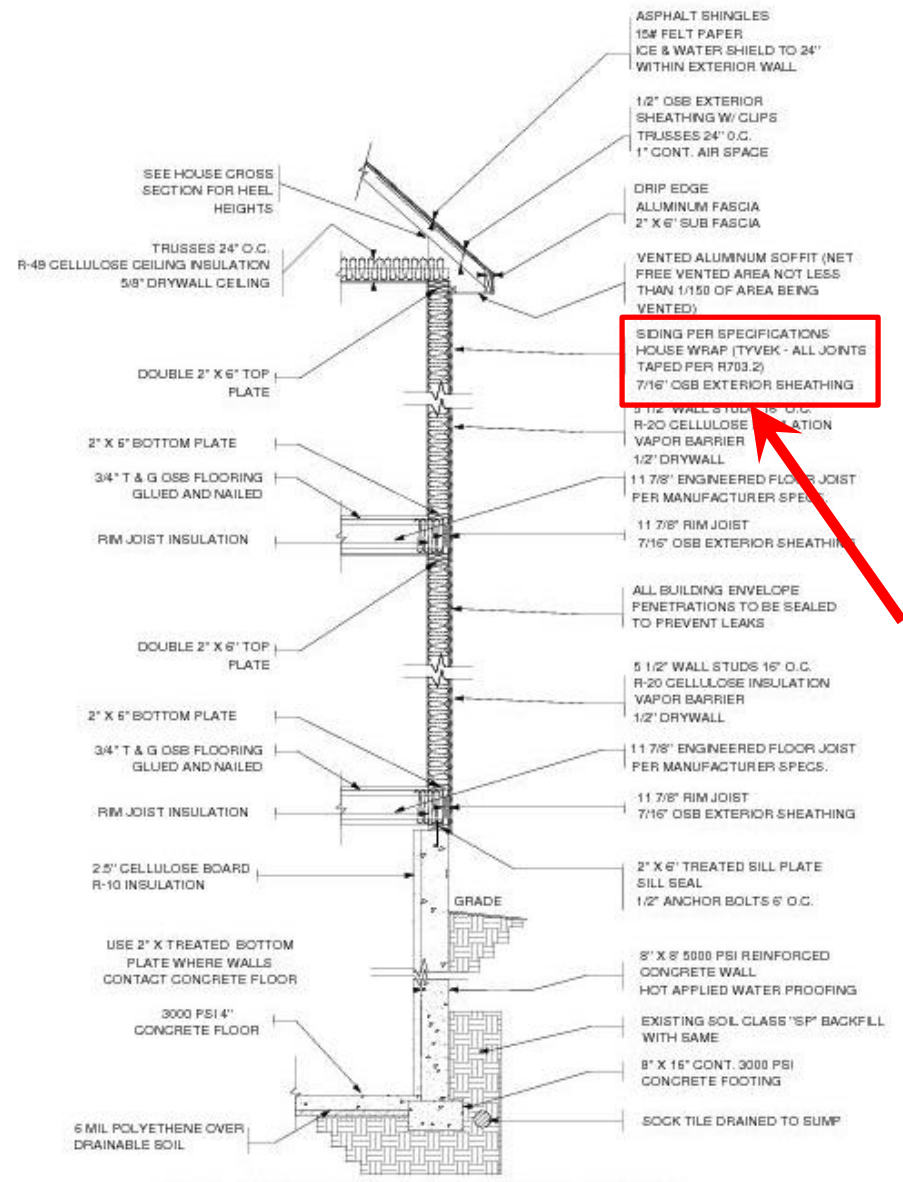
- a. 15 # felt paper overlapped 2”**
- b. House wrap (Tyvek - all joists taped)**
- c. Nothing**
- d. Rosin paper**

## Answer:

Look at sheet 16, find the note that calls out House wrap (Tyvek – joints taped)

Issue Description	Construction Final
Date	3/12/2012
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	2
	3

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PER R311 5.6.3 ALL HANDRAILS SHALL BE GRASPABLE WITH A PERIMETER NOT LESS THAN 4" AND NOT GREATER THAN 6 1/4" AND A MAXIMUM CROSS SECTION OF 2 1/4"

WALL SECTION NOTES (NOT TO SCALE)

## Question #5

How many cubic yards of concrete is needed to pour the concrete portion of the driveway?

- a. 149 - 151      c. 8.0 – 8.5  
b. 224 - 226      d. 5.1 - 5.6

### Logic:

1. Look at the site plan, find the dimensions of the concrete portion of the driveway, they are 25' by 18'.
2. Now look at the site plan, to find the thickness of the concrete from the note by the driveway which calls for a 6" slab (0.5')?

### Answer:

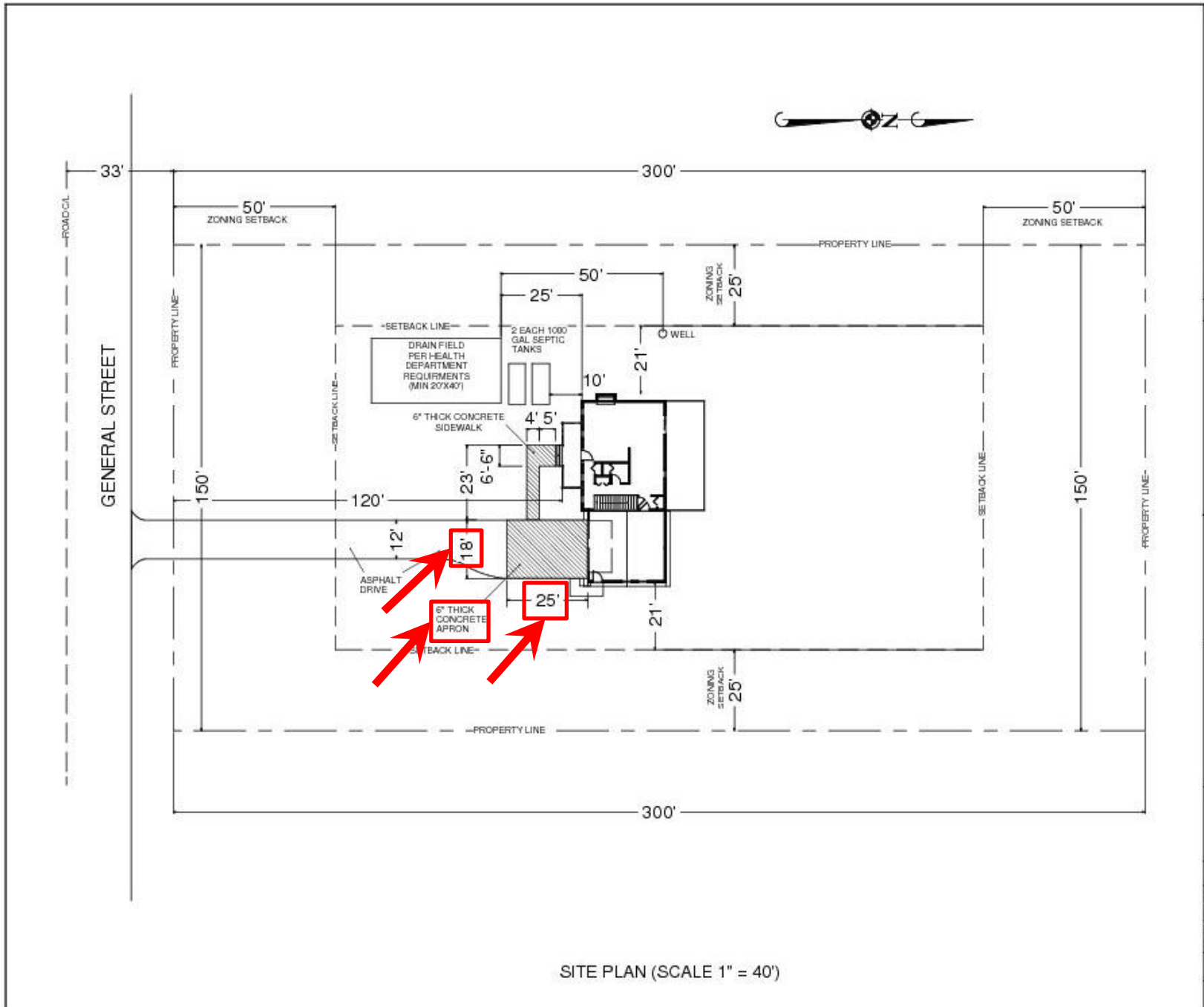
$25' \times 18' \times .5' = 225$  cubic feet.

To convert cubic feet to cubic yards, divide by 27

$225 \div 27 = 8.33$  cubic yards.

**8.33 cubic yards**





SITE PLAN (SCALE 1" = 40')

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Sheet Title:  
SITE PLAN

#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

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Scale: 1/8" = 1'

Sheet # 5

## Question #6

**Which rooms have tile floors?**

- a. 1<sup>st</sup> floor bathroom, 1<sup>st</sup> floor bathroom closet, 2<sup>nd</sup> floor bathroom, master bathroom, laundry room**
- b. Kitchen, 1<sup>st</sup> floor bathroom**
- c. 1<sup>st</sup> floor bathroom, 1<sup>st</sup> floor bathroom closet**
- d. 2<sup>nd</sup> floor bathroom, laundry room**

### **Logic:**

1. There is no mention of floor surface finishing on the floor plans.
2. Look at sheet 18, find the Room Finishing Schedules for the 1<sup>st</sup> and 2<sup>nd</sup> floors.

### **Answer:**

1<sup>st</sup> floor bathroom, 1<sup>st</sup> floor bathroom closet, 2<sup>nd</sup> floor bathroom, master bathroom, laundry room

ROOM FINISH SCHEDULE						
ROOM NAME	FLOOR	WALL MATERIAL	FLOOR FINISH	BASE MOLDING	WINDOW CASING	DOOR CASING
BATH	1	DRYWALL	SANDSTONE1 TILE	CA-28		CA-04
BATH CLOSET	1	DRYWALL	SANDSTONE1 TILE	CA-28		CA-04
CLOSET	1	DRYWALL	MEDIUM - MP PLANK	CA-28		CA-04
DINING	1	DRYWALL	MEDIUM - MP PLANK	CA-28	CA-04	CA-04
GARAGE	1	DRYWALL			CA-04	CA-04
HALL	1	DRYWALL	MEDIUM - MP PLANK	CA-28	CA-04	CA-04
KITCHEN	1	DRYWALL	MEDIUM - MP PLANK	CA-28	CA-04	CA-04
LIVING	1	DRYWALL	CARPET-A2	CA-28	CA-04	
STAIRS	1	DRYWALL				CA-04

ROOM FINISH SCHEDULE						
ROOM NAME	FLOOR	WALL MATERIAL	FLOOR FINISH	BASE MOLDING	WINDOW CASING	DOOR CASING
BATH	2	DRYWALL	SANDSTONE1 TILE	CA-28		CA-04
BEDROOM	2	DRYWALL	CARPET-A2	CA-28	CA-04	CA-04
CLOSET	2	DRYWALL	CARPET-A2	CA-28		CA-04
CLOSET	2	DRYWALL	CARPET-A2	CA-28	CA-04	CA-04
HALL	2	DRYWALL	CARPET-A2	CA-28		CA-04
LAUNDRY	2	DRYWALL	SANDSTONE1 TILE	CA-28		CA-04
MASTER BATH	2	DRYWALL	SANDSTONE1 TILE	CA-28		CA-04
MASTER BDRM	2	DRYWALL	CARPET-A2	CA-28	CA-04	CA-04
STAIRS	2	DRYWALL	CARPET-A2			

STRUCTURE LOADING SCHEDULE	
AREA	LOAD
FLOOR	40 PSF LIVE 10 PSF DEAD
ROOF	50 PSF LIVE 10 PSF DEAD
DECKS	40 PSF LIVE 10 PSF DEAD

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Sheet Title:  
SCHEDULES

#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

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Scale: 1/8" = 1'

Sheet # 18

## Question #7

**How many smoke detectors are in the building?**

- a. 2
- b. 3
- c. 4
- d. 6

### **Logic:**

Each of three bedrooms on the second floor have one, plus one more combo in the hallway outside of the bedrooms. There is one in the living room and one in the basement

**Answer: 6**

### **Note:**

Smoke detectors are required in bedrooms and in the immediate vicinity outside of bedrooms and on all floor levels.

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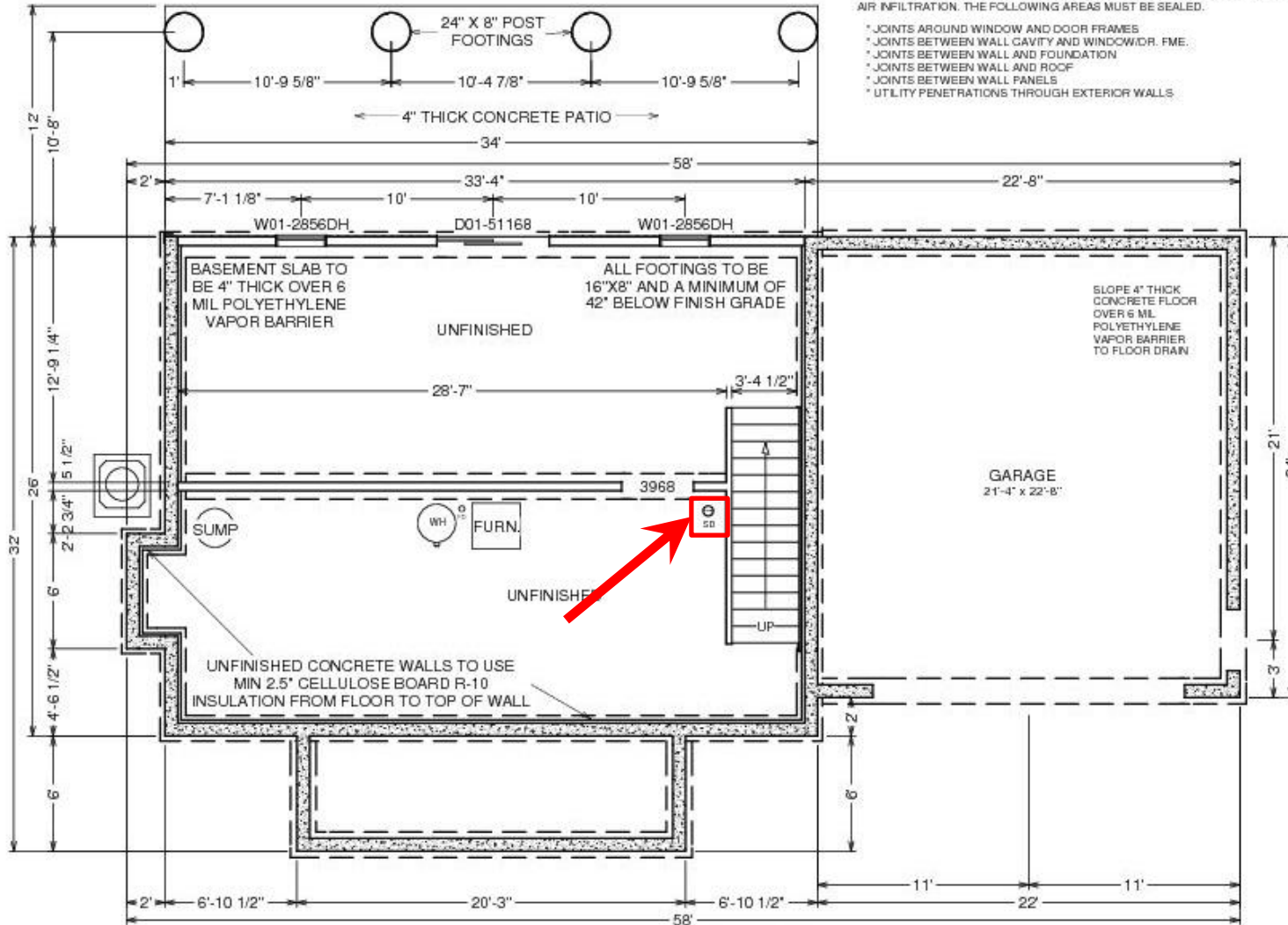
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Issue Description	Date	#
Construction Final	3/12/2012	1
		2
		3

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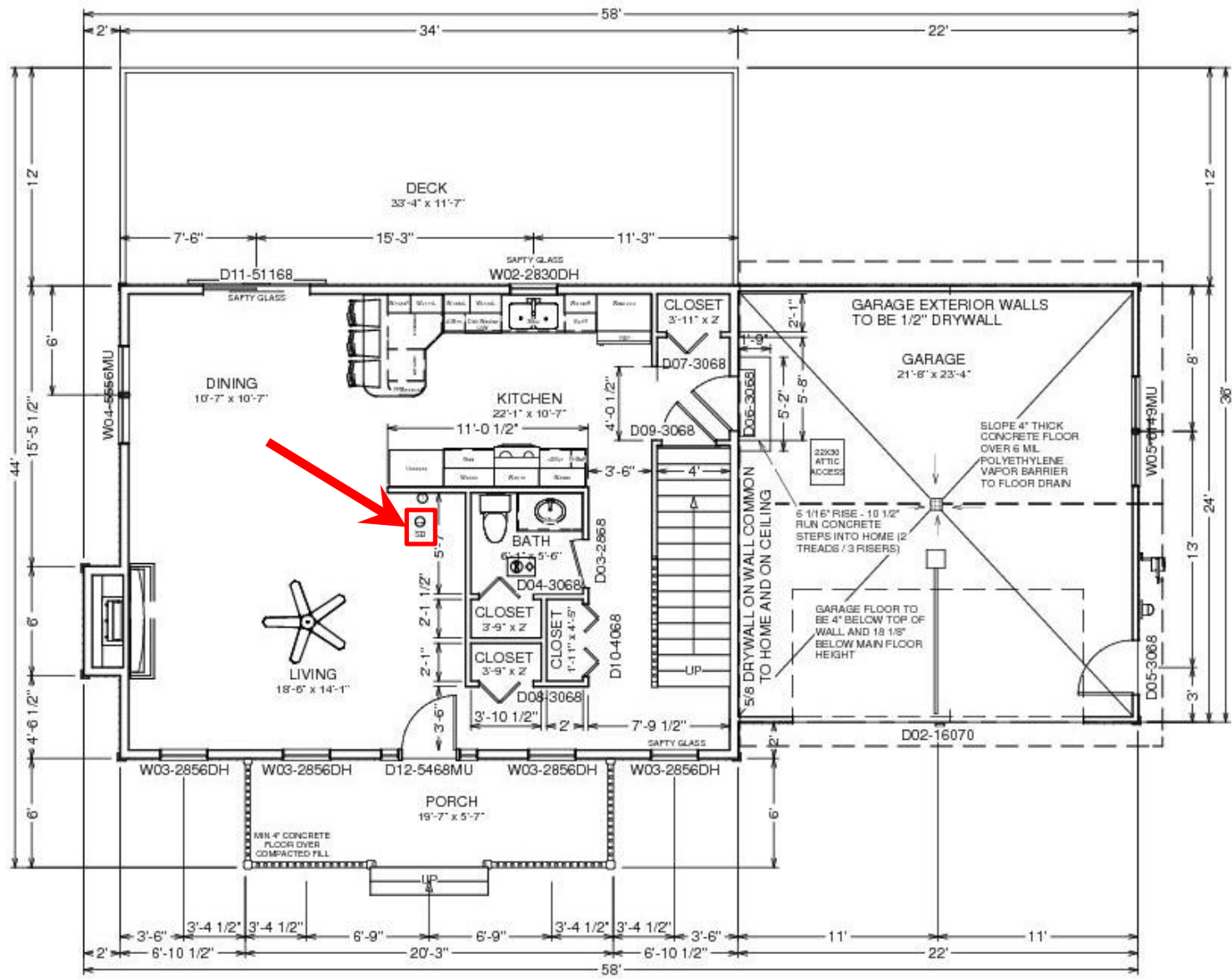
Scale: 1/8" = 1'

Sheet # 6

#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

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Scale: 1/8" = 1'



MAIN FLOOR PLAN

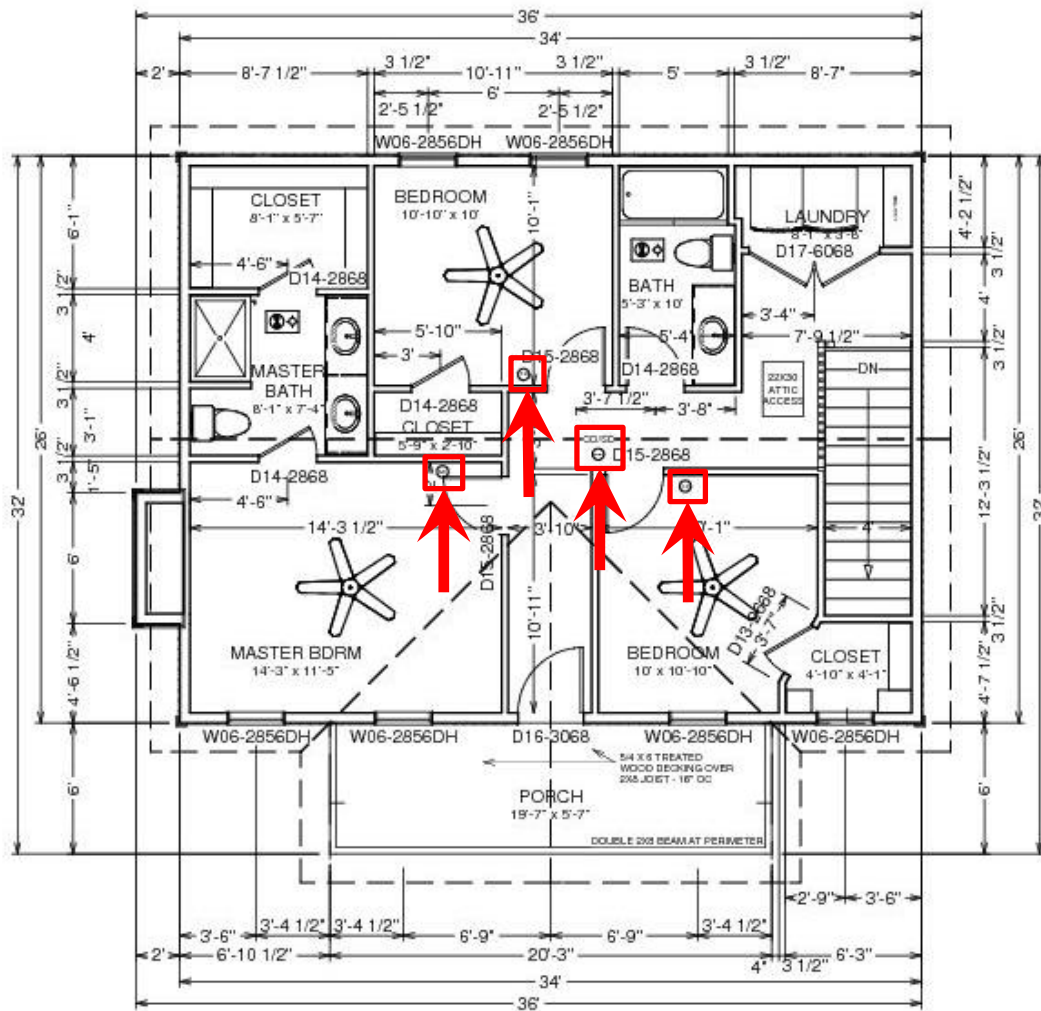


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3		

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Scale: 1/8" = 1'

Sheet # 8



SECOND FLOOR PLAN

## Question #8

**How many carbon monoxide detectors are in the building?**

- a. 0      c. 3**  
**b. 1      d. 6**

### **Logic:**

1. Look at the second floor plan, find the CO/SD detector in the hallway. This unit is a combination carbon monoxide and smoke detector.

**Answer: 1**

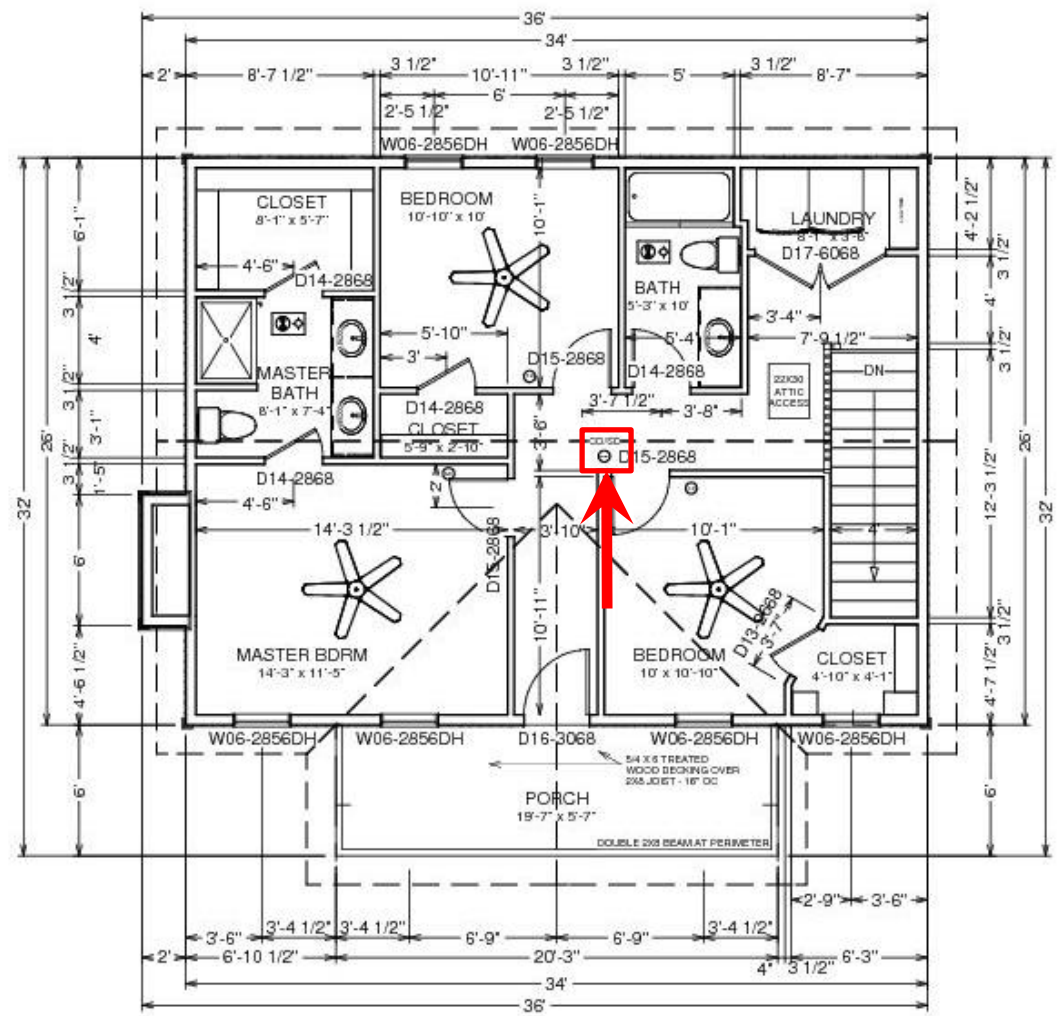
### **Note:**

Carbon monoxide detectors are required in the immediate vicinity outside of bedrooms for homes with attached garages or fuel fired devices.

#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

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Scale: 1/8" = 1'



SECOND FLOOR PLAN

## **Question #9**

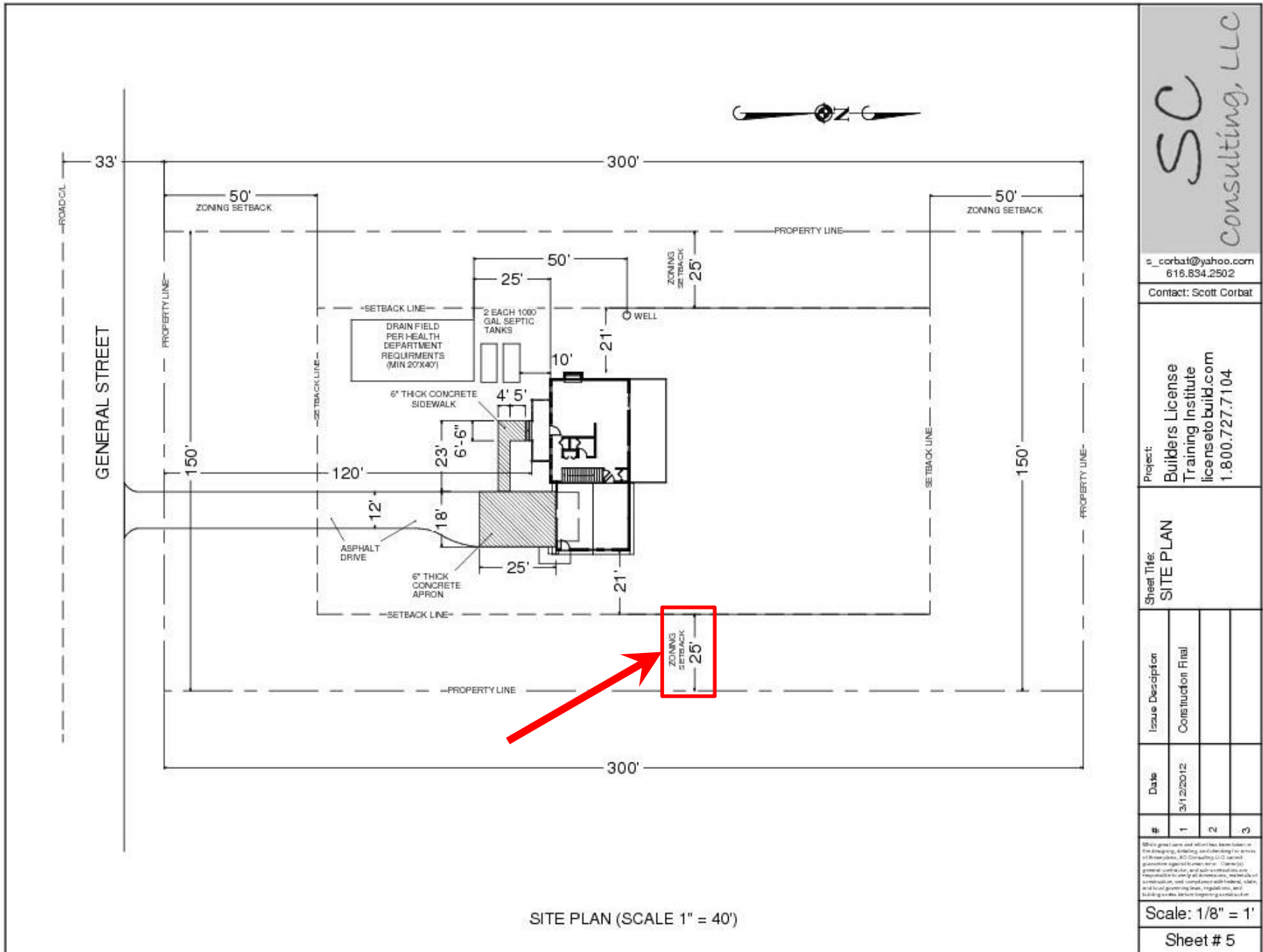
**What is the required side setbacks for this property?**

- a. 18 feet**
- b. 25 feet**
- c. 33 feet**
- d. 50 feet**

### **Logic:**

1. Look at the site plan, find the side setback dimension

**Answer: 25 feet**



SITE PLAN (SCALE 1" = 40')

#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

## **Question #10**

**How close can the rear of the building be to the rear property line?**

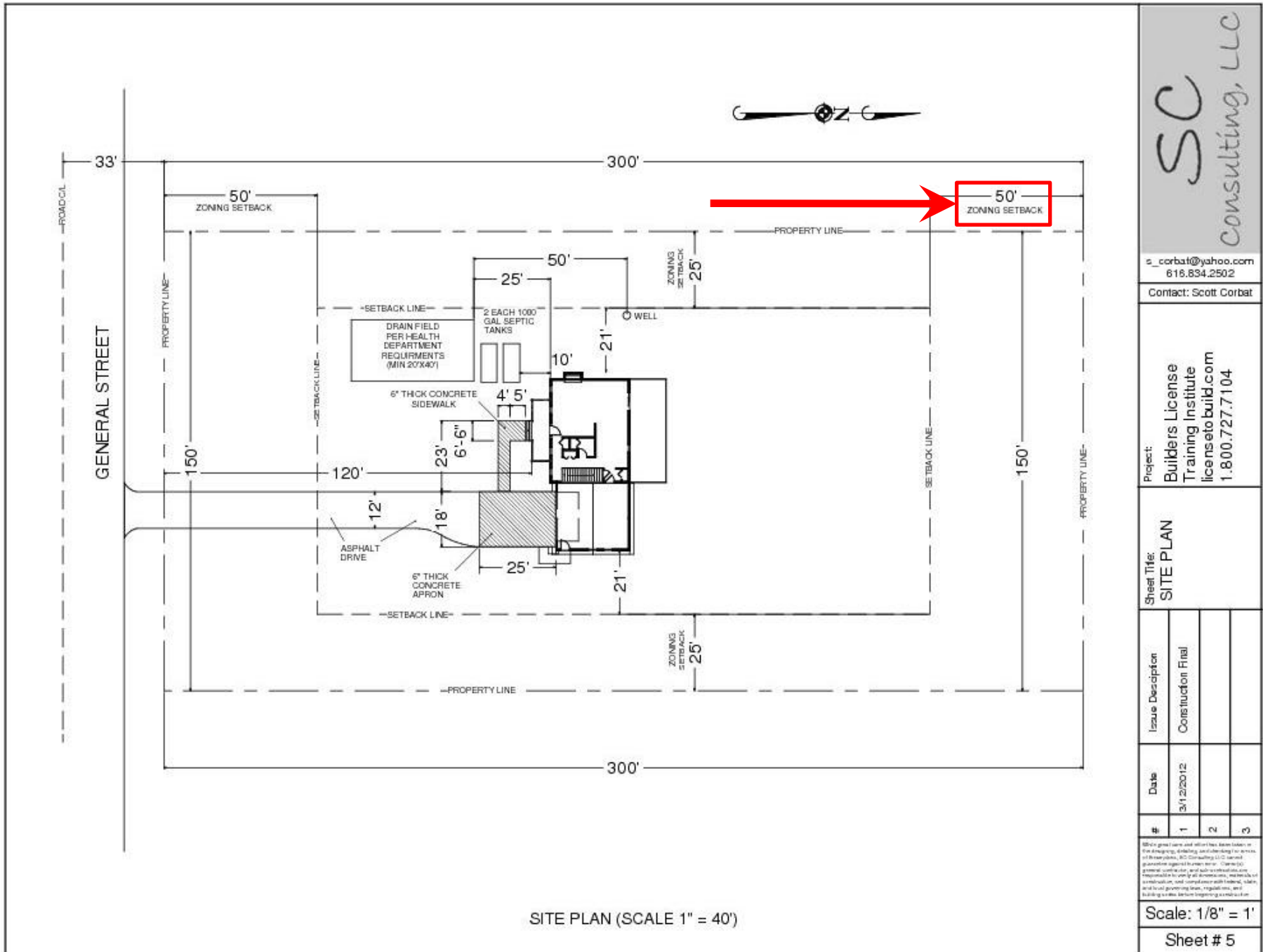
- a. 18 feet**
- b. 25 feet**
- c. 33 feet**
- d. 50 feet**

### **Logic:**

1. Look at the site plan, find the rear setback dimension

**Answer: 50 feet**





SITE PLAN (SCALE 1" = 40')

#	Date	Issue Description
1	3/12/2012	Construction Final
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## Question #11

How many acres is this site?

- a. 0.39 – 0.50      c. 0.61 – 0.80  
b. 0.51 – 0.60      d. 1.00 – 1.10

### Logic:

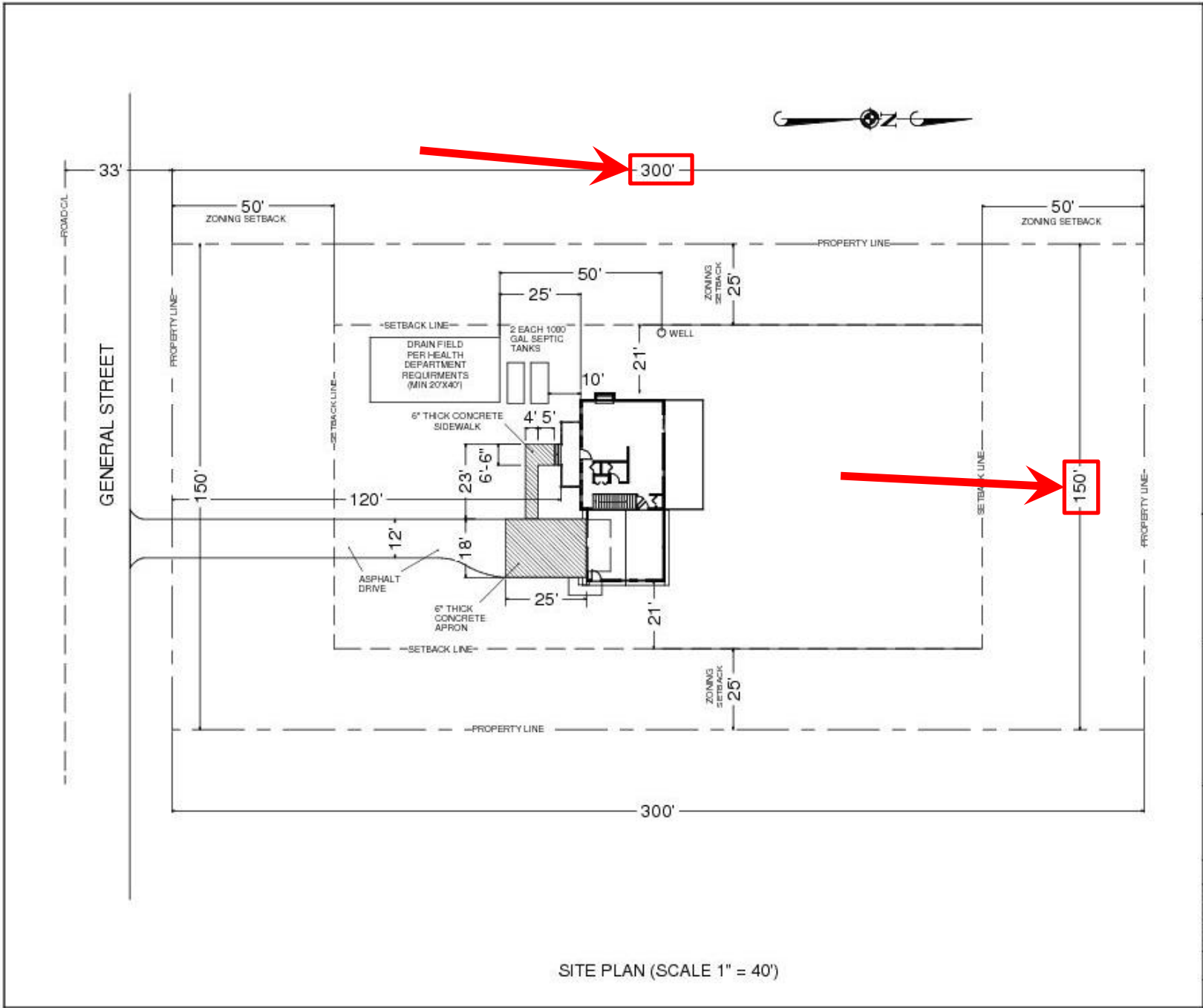
1. Look at the site plan, find the site dimensions, they are 150' by 300'. 1 acre is 43,560 sqft.

### Math:

$$150' \times 300' = 45,000 \text{ sqft} \quad 45,000 \div 43,560 = 1.033 \text{ acres}$$

**Answer: 1.033 acres**

**Note: Remember 1 acre is 43,560 sqft.**



SITE PLAN (SCALE 1" = 40')

SC

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Sheet Title:  
**SITE PLAN**

#	Date	Issue Description
1	3/12/2012	Construction Final
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3		

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Scale: 1/8" = 1'

Sheet # 5

## Question #12

What is this building floor live load?

- a. 10
- b. 20
- c. 40
- d. 60

### Logic:

1. The information isn't provided notes sheets. Look at sheet 18, find the structural loading schedule.

**Answer: 40 psf** (psf is pounds per square foot)

### Note:

It is a good idea to spend some time before starting the exam getting familiar with **ALL PAGES** in the house plan package.

ROOM FINISH SCHEDULE						
ROOM NAME	FLOOR	WALL MATERIAL	FLOOR FINISH	BASE MOLDING	WINDOW CASING	DOOR CASING
BATH	1	DRYWALL	SANDSTONE1 TILE	CA-28		CA-04
BATH CLOSET	1	DRYWALL	SANDSTONE1 TILE	CA-28		CA-04
CLOSET	1	DRYWALL	MEDIUM - MP PLANK	CA-28		CA-04
DINING	1	DRYWALL	MEDIUM - MP PLANK	CA-28	CA-04	CA-04
GARAGE	1	DRYWALL			CA-04	CA-04
HALL	1	DRYWALL	MEDIUM - MP PLANK	CA-28	CA-04	CA-04
KITCHEN	1	DRYWALL	MEDIUM - MP PLANK	CA-28	CA-04	CA-04
LIVING	1	DRYWALL	CARPET-A2	CA-28	CA-04	
STAIRS	1	DRYWALL				CA-04

ROOM FINISH SCHEDULE						
ROOM NAME	FLOOR	WALL MATERIAL	FLOOR FINISH	BASE MOLDING	WINDOW CASING	DOOR CASING
BATH	2	DRYWALL	SANDSTONE1 TILE	CA-28		CA-04
BEDROOM	2	DRYWALL	CARPET-A2	CA-28	CA-04	CA-04
CLOSET	2	DRYWALL	CARPET-A2	CA-28		CA-04
CLOSET	2	DRYWALL	CARPET-A2	CA-28	CA-04	CA-04
HALL	2	DRYWALL	CARPET-A2	CA-28		CA-04
LAUNDRY	2	DRYWALL	SANDSTONE1 TILE	CA-28		CA-04
MASTER BATH	2	DRYWALL	SANDSTONE1 TILE	CA-28		CA-04
MASTER BDRM	2	DRYWALL	CARPET-A2	CA-28	CA-04	CA-04
STAIRS	2	DRYWALL	CARPET-A2			

STRUCTURE LOADING SCHEDULE	
AREA	LOAD
FLOOR	40 PSF LIVE
	10 PSF DEAD
ROOF	50 PSF LIVE
	10 PSF DEAD
DECKS	40 PSF LIVE
	10 PSF DEAD




  
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Sheet Title:  
**SCHEDULES**

Issue Description	Date	#
Construction Final	3/12/2012	1
		2
		3

We have prepared these drawings and specifications for the project, and we warrant that they conform to the general requirements of the applicable building codes and regulations. We do not warrant that the drawings and specifications are complete or that they will conform to all applicable laws, regulations, and codes. The contractor is responsible for obtaining all necessary permits and for complying with all applicable laws, regulations, and codes. The contractor is also responsible for obtaining all necessary permits and for complying with all applicable laws, regulations, and codes.

Scale: 1/8" = 1'

Sheet # 18

## **Question #13**

**What type of roof shingles are used on this building?**

- a. 3 tab fiberglass asphalt composition shingles**
- b. Dual layer fiberglass mat asphalt, algae resistant architectural shingles**
- c. 30 year algae resistant architectural shingles**
- d. Cedar shingles**

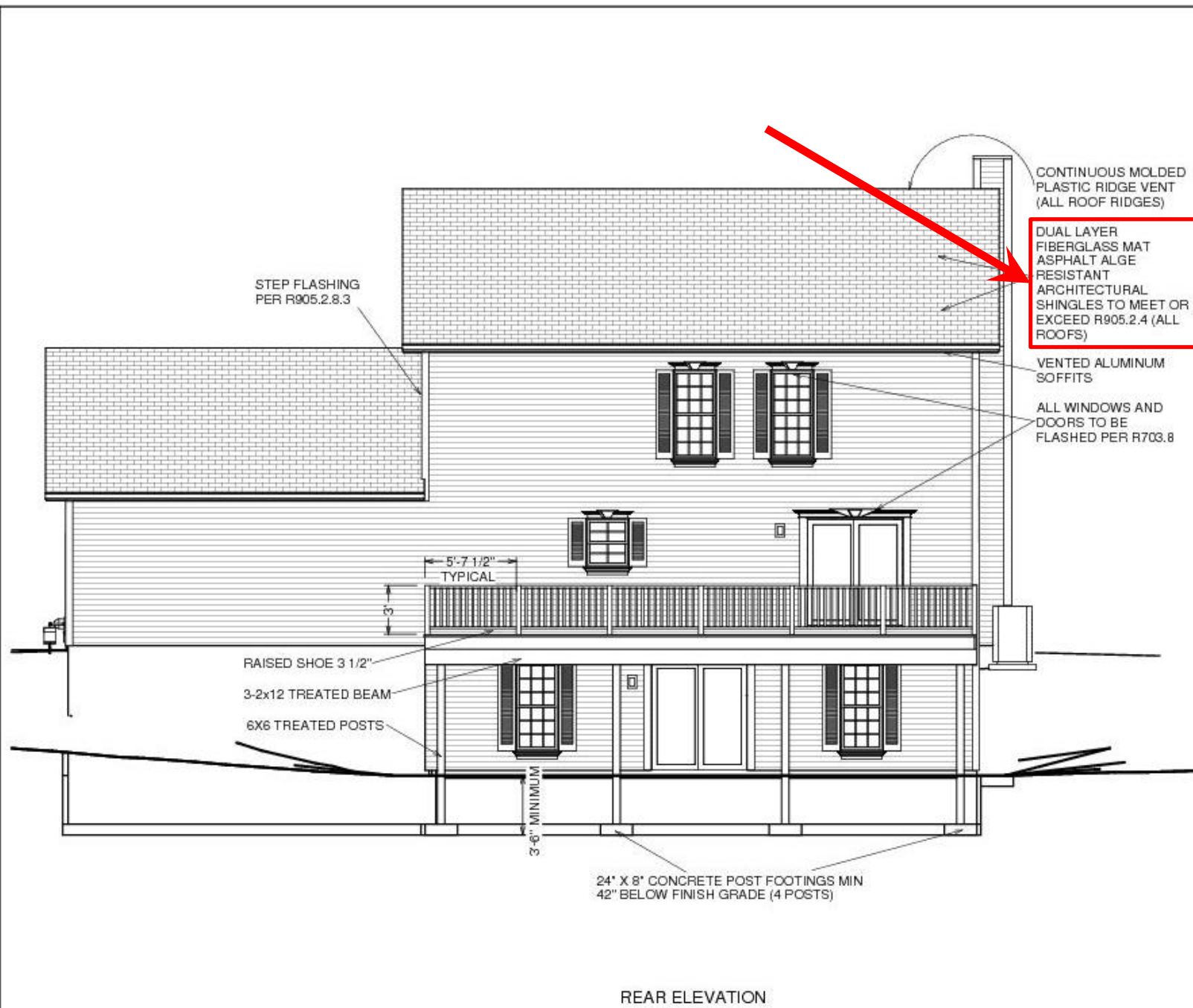
### **Logic:**

1. Look at the front or rear elevations, find the note that calls out Dual layer fiberglass mat asphalt, algae resistant architectural shingles. This information is also on sheet 2.

### **Answer:**

**Dual layer fiberglass mat asphalt, algae resistant architectural shingles.**





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Sheet Title:  
REAR  
ELEVATION

Issue Description	Date	#
Construction Final	3/12/2012	1
		2
		3

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Scale: 1/8" = 1'  
Sheet # 10

REAR ELEVATION

#	Date	Issue Description	
		Construction	Final
1	3/12/2012		
2			
3			

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Scale: 1/8" = 1'

**CARPENTRY:**

SAWN LUMBER DESIGN IS BASED ON THE NATIONAL DESIGN SPECIFICATION, LATEST EDITION. SAWN LUMBER SHALL CONFORM TO WEST COAST LUMBER INSPECTION BUREAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES. ALL LUMBER NOT SPECIFICALLY NOTED TO BE D.F. #2 OR BETTER. ALL WOOD IN PERMANENT CONTACT WITH CONCRETE OR CMU SHALL BE PRESSURE TREATED UNLESS AN APPROVED BARRIER IS PROVIDED. FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY (OR ENGINEER APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HANGERS NOT SHOWN SHALL BE SIMPSON HU OF SIZE RECOMMENDED FOR MEMBER. ALL HANGERS AND NAILS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE SIMPSON Z-MAX HANGERS OR STAINLESS STEEL. ALL SHEAR WALL SHEATHING NAILS SHALL BE COMMON NAILS. ALL FRAMING NAILS SHALL BE COMMON NAILS. OR HOT DIPPED GALVANIZED BOX NAILS. FRAMING NAILS SHALL BE PER IBC TABLE 2304.9.1 OR IFC TABLE R602.3(1).

PLYWOOD PANELS SHALL CONFORM TO THE REQUIREMENTS OF "U.S. PRODUCT STANDARD PS 1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" OR APA PRP-108 PERFORMANCE STANDARDS. UNLESS NOTED, PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS. PLYWOOD INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

ALL ROOF SHEATHING AND SUB-FLOORING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. ROOF SHEATHING SHALL EITHER BE BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. SHEAR WALL SHEATHING SHALL BE BLOCKED WITH 2X FRAMING AT ALL PANEL EDGES. NAILING NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS TO CONFORM WITH IRC TABLE R602.3(1).

PROVIDE BRIDGING IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS. JOISTS AND BRIDGING SHALL BE CAPABLE OF RESISTING THE WIND UPLIFT NOTED ON THE DRAWINGS. THE JOIST MANUFACTURER SHALL VISIT JOB SITE AS REQUIRED AND VERIFY THE PROPER INSTALLATION OF JOISTS IN WRITING TO THE ARCHITECT/ENGINEER. PREMANUFACTURED WOOD JOIST ALTERNATES WILL BE CONSIDERED, PROVIDED THE ALTERNATE IS COMPATIBLE WITH THE LOAD CAPACITY, STIFFNESS, DIMENSIONAL, AND FIRE RATING REQUIREMENTS OF THE PROJECT, AND IS ICBO APPROVED.

LUMBER SPECIES:  
A. POSTS, BEAMS, HEADERS, JOISTS, AND RAFTERS TO BE SPF# 2 OR BETTER

B. SILLS, PLATES BLOCKING, AND BRIDGING TO BE SPF #2.

C. ALL STUDS TO BE SPF#2 OR BETTER.

D. PLYWOOD SHEATHING SHALL BE AS FOLLOWS:  
ROOF SHEATHING SHALL BE 1/2" OSB.  
WALL SHEATHING SHALL BE 7/16" OSB.  
FLOOR SHEATHING SHALL BE 3/4" T & G INT-APA RATED OSB.

E. '1' JOISTS SHALL BE MANUFACTURED BY TRUS JOIST OR ENGINEER APPROVED EQUAL.

F. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

**ROOF FRAMING / TRUSS NOTES:**

TRUSS DRAWING IS FOR ILLUSTRATION ONLY. ALL TRUSSES SHALL BE INSTALLED & BRACED TO MANUFACTURERS DRAWINGS & SPECIFICATIONS.

ALL TRUSSES SHALL CARRY MANUFACTURERS STAMP.

ALL TRUSSES WILL NOT BE FIELD ALTERED WITHOUT PRIOR BUILDING DEPT. APPROVAL OF ENGINEERING CALCULATIONS.

ALL TRUSSES SHALL HAVE DESIGN DETAILS & DRAWINGS ON SITE FOR FRAMING INSPECTION.

ALL CONNECTIONS OF RAFTERS, JACK OR HIP TRUSSES TO MAIN GIRDER TO BE PROVIDED BY TRUSS MANUFACTURER.

ALL ROOF FRAMING 24" O.C.

ALL OVERHANGS 16".

INSTALL POLYISOCYANURATE FOAM TYPE INSULATION AT FLOOR AND PLATE LINES, OPENINGS IN PLATES, CORNER STUD CAVITIES AND AROUND DOOR AND WINDOW ROUGH OPENING CAVITIES.

ATTIC VENTILATION: REQUIRED ABOVE HOUSE.

MIN. SNOW LOAD 50 LBs PER SQUARE FOOT.

WALL HEADERS : (2) 2 X 10 SPF 2 TYP. UNO

ROOF & FLOOR TRUSS MANUFACTURER:

**EXTERIOR FINISH NOTES:**

EXTERIOR FINISH TO BE DOUBLE 6" VINYL SIDING OVER 7/16 OSB. WINDOW AND DOOR TRIM PAINTED MIRATEC. MATERIAL AND COLOR BY OWNER.

DUAL LAYER FIBERGLASS MAT ASPHALT ALGAE RESISTANT ARCHITECTURAL SHINGLES TO MEET OR EXCEED R905.2.4

DECKING TO BE PRESURE TREATED WOOD. FINAL COLOR BY OWNER.

CHIMNEYS ARE DECORATIVE AND PROVIDE FOR VENTING OF GAS FIREPLACES ONLY

DOWNSPOUTS TO BE COLLECTED AND ROOF RUN OFF TO BE DIRECTED AWAY FROM STRUCTURE PER THE SITE PLAN.

FINISH GRADE SHALL SLOPE AWAY FROM STRUCTURE MIN. 6" IN FIRST 10'

RETAINING WALLS AS NECESSARY AND INSTALLED BY LANDSCAPE DESIGN APPROVED BY HOMEOWNER

**DOOR AND WINDOW NOTES:**

EVERY BEDROOM SHALL BE PROVIDED WITH AN EGRESS WINDOW WITH FINISH SILL HEIGHT NOT GREATER THAN 44" ABOVE THE FINISH FLOOR HEIGHT AND SHALL HAVE A MINIMUM OPENABLE AREA OF 5.7 SQ. FT. EGRESS WINDOWS SHALL NOT HAVE AN OPENABLE AREA LESS THAN 20" WIDE OR 24" HIGH.

INTERIOR DOORS SHALL BE PAINTED. ENTRY DOOR TO BE DEFINED BY HOME OWNER PRIOR ORDERING

DOORS BETWEEN GARAGE AND LIVING AREA SHALL BE 1-3/4" TIGHT FITTING SOLID CORE DOORS

EXTERIOR EXIT DOORS WILL BE 36" MIN. NET CLEAR DOORWAY SHALL BE 32" MIN. DOOR SHALL BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. GLAZING IN DOORS SHALL BE DUAL PANE SAFETY GLASS WITH MIN. U-VALUE OF 0.60

GARAGE DOORS TO BE SECTIONAL, OVERHEAD DOORS

**MISCELLANEOUS NOTES:**

EACH BEDROOM TO HAVE A MINIMUM WINDOW OPENING OF 5.7 SQ. FT. WITH A MINIMUM WIDTH OF 20 IN. AND A SILL LESS THAN 44" ABOVE FIN. FLR.

ALL GLAZING WITHIN 18 IN. OF THE FLOOR AND/OR WITHIN 24 IN. OF ANY DOOR (REGARDLESS OF WALL PLANE) ARE TO HAVE SAFETY GLAZING. ALL GLAZING WITHIN 60 IN. OF TUB OR SHOWER FLOOR, 60 IN. OF A STAIR LANDING OR GREATER THAN 9 SQUARE FEET ARE TO HAVE SAFETY GLAZING

ALL TUB AND SHOWER ENCLOSURES ARE TO BE GLAZED WITH SAFETY GLASS.

ALL EXTERIOR WINDOWS ARE TO BE DOUBLE GLAZED AND ALL EXTERIOR DOORS ARE TO BE SOLID CORE WITH WEATHERSTRIPPING. PROVIDE 1/2 IN. DEADBOLT LOCKS ON ALL EXTERIOR DOORS, AND LOCKING DEVICES ON ALL DOORS AND WINDOWS WITHIN 10 FT. (VERTICAL) OF GRADE.

PROVIDE ONE SMOKE DETECTOR IN EACH ROOM AND ONE IN EACH CORRIDOR ACCESSING BEDROOMS. CONNECT SMOKE DETECTORS TO HOUSE POWER AND INTER-CONNECT SMOKE DETECTORS TO HOUSE POWER AND INTERCONNECT SO THAT, WHEN ANY ONE IS TRIPPED, THEY ALL WILL SOUND. PROVIDE BATTERY BACKUP FOR ALL UNITS.

PROVIDE COMBUSTION AIR VENTS (W/SCREEN AND BACK DAMPER) FOR GAS FIRE-PLACE AND ANY OTHER APPLIANCES WITH AN OPEN FLAME.

BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A FAN CAPABLE OF PRODUCING A MINIMUM OF 5 AIR EXCHANGES PER HOUR.

RANGE HOODS ARE ALSO TO BE VENTED TO THE OUTSIDE.

ELECTRICAL RECEPTACLES IN BATHROOMS, KITCHENS AND GARAGES SHALL BE G.F.I. OR G.F.I.C. PER NATIONAL ELECTRICAL CODE REQUIREMENTS.

INSULATE ALL ACCESS DOORS/ HATCHES TO CRAWL SPACES AND ATTICS TO THE EQUIVALENT RATING OF THE WALL, FLOOR OR CEILING THROUGH WHICH THEY PENETRATE AND SEAL TO STOP AIR LEAKS



## Question #14

**What is the scale of the Main Floor Plan?**

a.  $1'' = 1'$

c.  $1/4'' = 1'$

b.  $1' = 1'$

d.  $1/8'' = 1'$

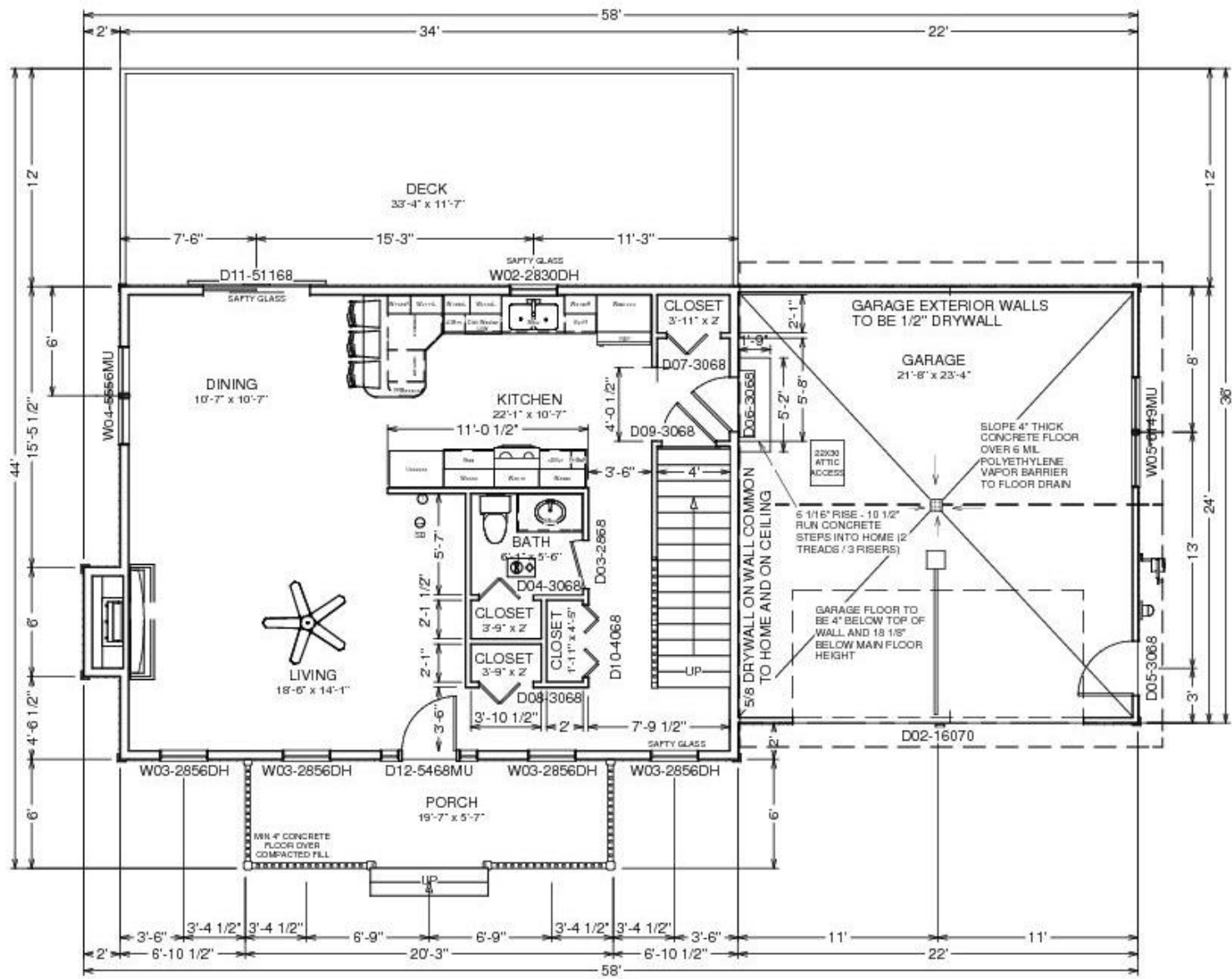
**Logic:**

1. Look at the main floor plan, find the scale in the lower right part of the title block.

**Answer: Scale:  $1/8''$  to  $1'$**

**Note:**

Always look to the sheet that is mentioned



MAIN FLOOR PLAN

#	Date	Issue Description
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Scale: 1/8" = 1'

## Question #15

What is the total rise of the basement stairway?

- a. 7' 0" – 7' 2"      c. 8' 9" – 8' 11"  
b. 7' 8" – 7' 11"      d. 9' 0" - 9' 2"

### Logic:

1. Look at sheet 14, find the dimension from the finished basement floor to the finished main floor.

**Answer: 8' 10 1/8"**

### Note:

Cross sections are the best place to information on the height of things in a buildings.

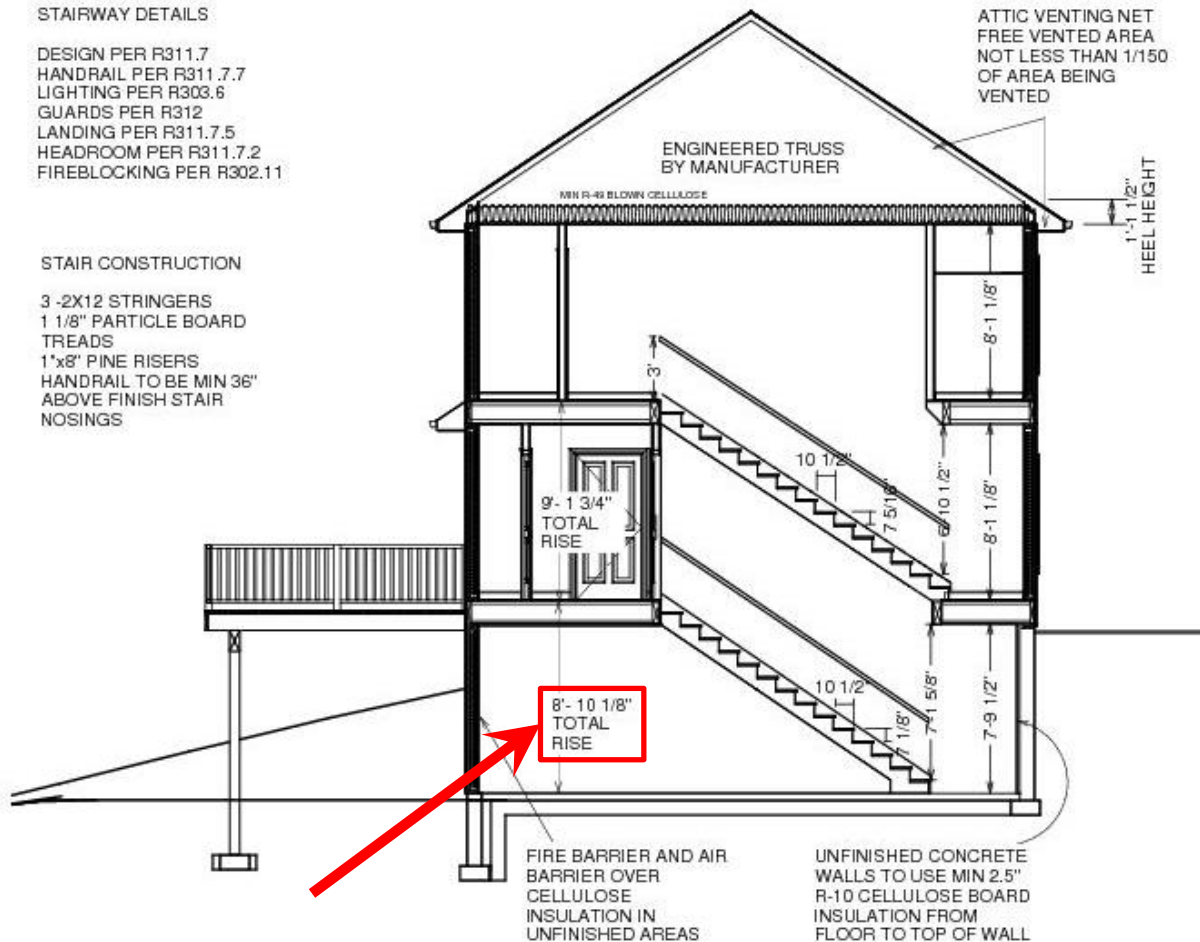


STAIRWAY DETAILS

DESIGN PER R311.7  
 HANDRAIL PER R311.7.7  
 LIGHTING PER R303.6  
 GUARDS PER R312  
 LANDING PER R311.7.5  
 HEADROOM PER R311.7.2  
 FIREBLOCKING PER R302.11

STAIR CONSTRUCTION

3 -2X12 STRINGERS  
 1 1/8" PARTICLE BOARD  
 TREADS  
 1"x8" PINE RISERS  
 HANDRAIL TO BE MIN 36"  
 ABOVE FINISH STAIR  
 NOSINGS



FRONT TO BACK CROSS SECTION

#	Date	Issue Description
1	3/12/2012	Construction Final
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## Question #16

What is the rise of each individual step in the basement stairway?

- a.  $6 \frac{1}{4}'' - 6 \frac{1}{2}''$       c.  $7 \frac{5}{16}'' - 7 \frac{1}{2}''$   
b.  $7'' - 7 \frac{1}{4}''$               d.  $10 \frac{1}{4}'' - 10 \frac{5}{8}''$

Logic:

1. Look at sheet 14, find the basement stairway
2. Now find individual step rise

Answer:

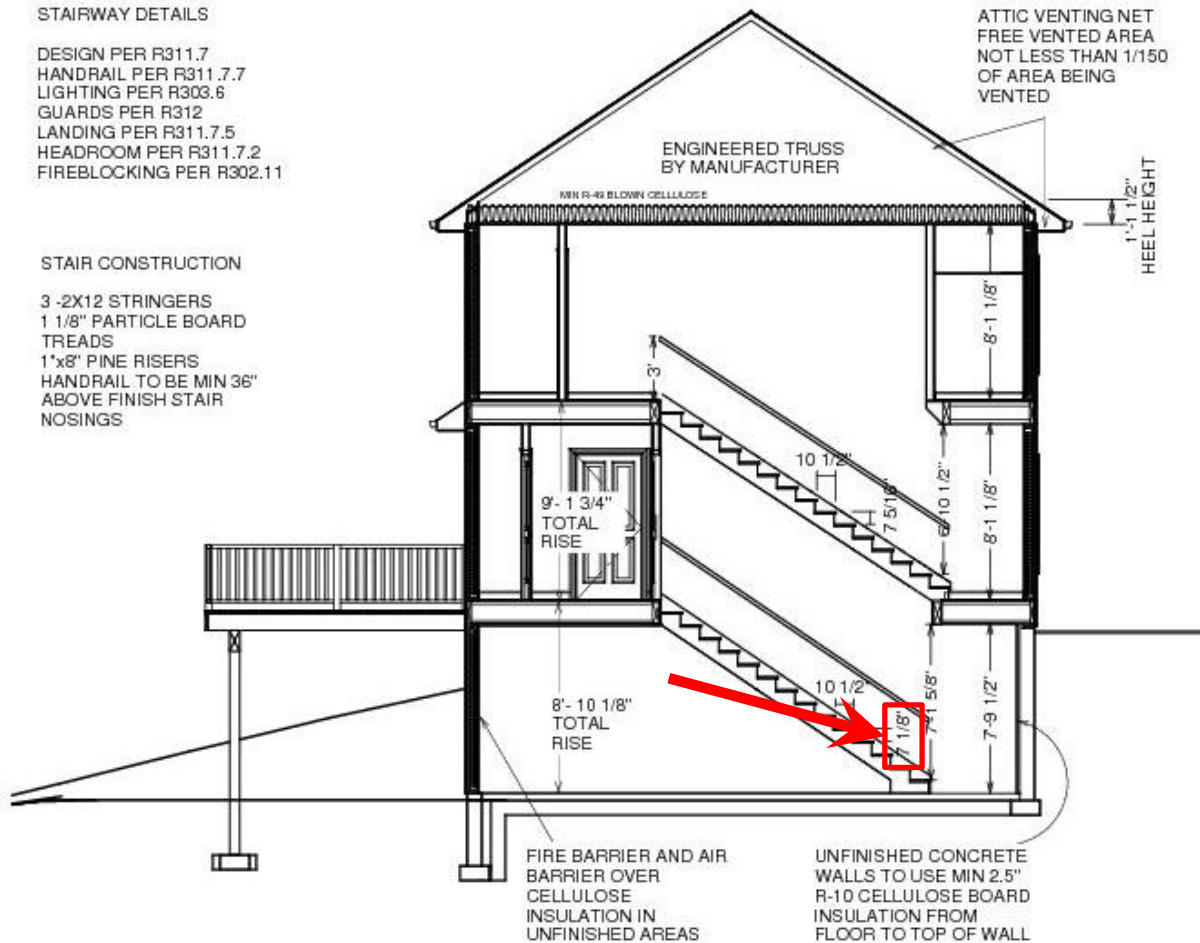
**$7 \frac{1}{8}''$**

STAIRWAY DETAILS

DESIGN PER R311.7  
 HANDRAIL PER R311.7.7  
 LIGHTING PER R303.6  
 GUARDS PER R312  
 LANDING PER R311.7.5  
 HEADROOM PER R311.7.2  
 FIREBLOCKING PER R302.11

STAIR CONSTRUCTION

3 -2X12 STRINGERS  
 1 1/8" PARTICLE BOARD  
 TREADS  
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 HANDRAIL TO BE MIN 36"  
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 NOSINGS



FRONT TO BACK CROSS SECTION

#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

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## Question #17

What is the tread depth of an individual step in the basement stairway?

- a.  $6 \frac{1}{4}'' - 6 \frac{1}{2}''$       c.  $7 \frac{5}{16}'' - 7 \frac{1}{2}''$   
b.  $7'' - 7 \frac{1}{4}''$       d.  $10 \frac{1}{4}'' - 10 \frac{5}{8}''$

### Logic:

1. Look at sheet 14, find the basement stairway
2. Now find individual tread depth

### Answer

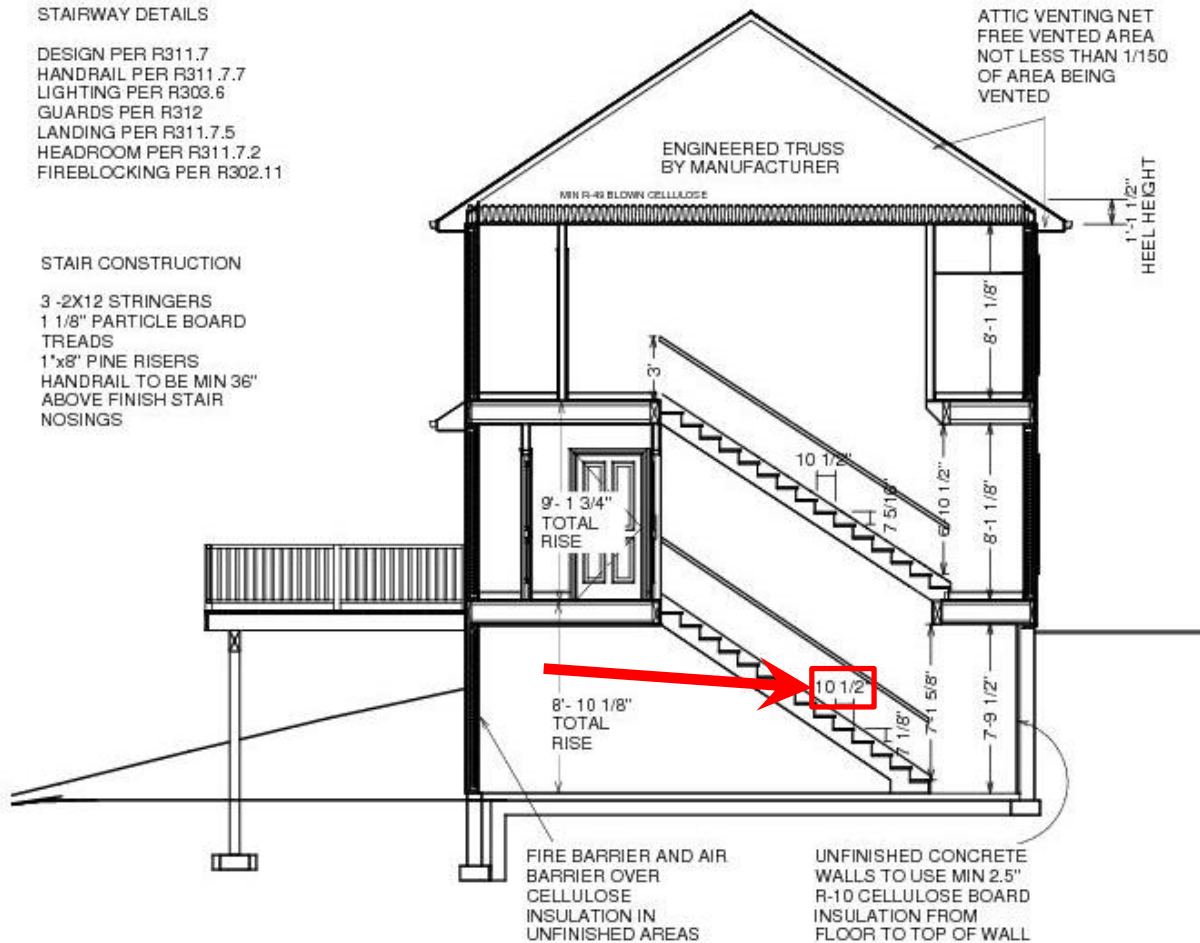
**$10 \frac{1}{2}''$**

STAIRWAY DETAILS

DESIGN PER R311.7  
 HANDRAIL PER R311.7.7  
 LIGHTING PER R303.6  
 GUARDS PER R312  
 LANDING PER R311.7.5  
 HEADROOM PER R311.7.2  
 FIREBLOCKING PER R302.11

STAIR CONSTRUCTION

3 -2X12 STRINGERS  
 1 1/8" PARTICLE BOARD  
 TREADS  
 1"x8" PINE RISERS  
 HANDRAIL TO BE MIN 36"  
 ABOVE FINISH STAIR  
 NOSINGS



FRONT TO BACK CROSS SECTION

#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

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## Question #18

How many linear feet of 1" x 8" material is needed to complete the risers on the basement stairway?

- a. 48 - 50
- b. 59 - 61
- c. 55 - 57
- d. 63 - 65

### Logic:

1. Look at sheet #14, count the number of rises on the basement stairway.
2. Look at the Main Floor Plan, find the width of the stairway
3. The stringers are typically hung on a piece of  $\frac{3}{4}$ " OSB that also creates the top riser. The rise from the last step to the house floor is not counted

### Answer:

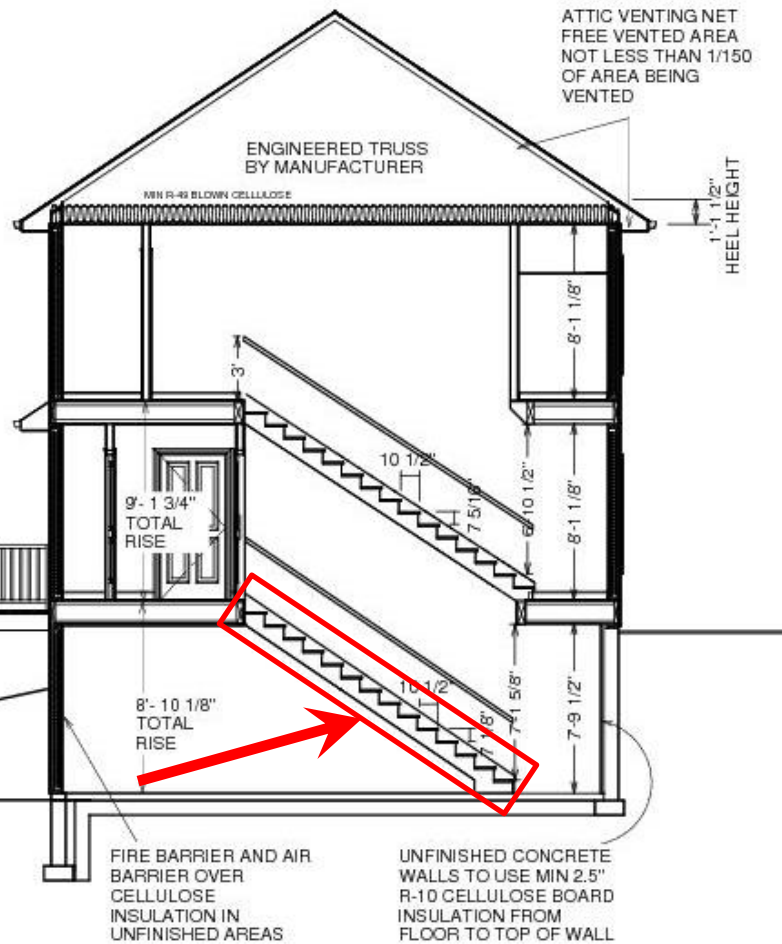
$$15 \times 4 = \mathbf{60'}$$

STAIRWAY DETAILS

DESIGN PER R311.7  
 HANDRAIL PER R311.7.7  
 LIGHTING PER R303.6  
 GUARDS PER R312  
 LANDING PER R311.7.5  
 HEADROOM PER R311.7.2  
 FIREBLOCKING PER R302.11

STAIR CONSTRUCTION

3 -2X12 STRINGERS  
 1 1/8" PARTICLE BOARD  
 TREADS  
 1"x8" PINE RISERS  
 HANDRAIL TO BE MIN 36"  
 ABOVE FINISH STAIR  
 NOSINGS



FRONT TO BACK CROSS SECTION

ATTIC VENTING NET  
 FREE VENTED AREA  
 NOT LESS THAN 1/150  
 OF AREA BEING  
 VENTED

ENGINEERED TRUSS  
 BY MANUFACTURER

MIN R-49 BLOWN CELLULOSE

1'-1 1/2"  
 HEEL HEIGHT

FIRE BARRIER AND AIR  
 BARRIER OVER  
 CELLULOSE  
 INSULATION IN  
 UNFINISHED AREAS

UNFINISHED CONCRETE  
 WALLS TO USE MIN 2.5"  
 R-10 CELLULOSE BOARD  
 INSULATION FROM  
 FLOOR TO TOP OF WALL

#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

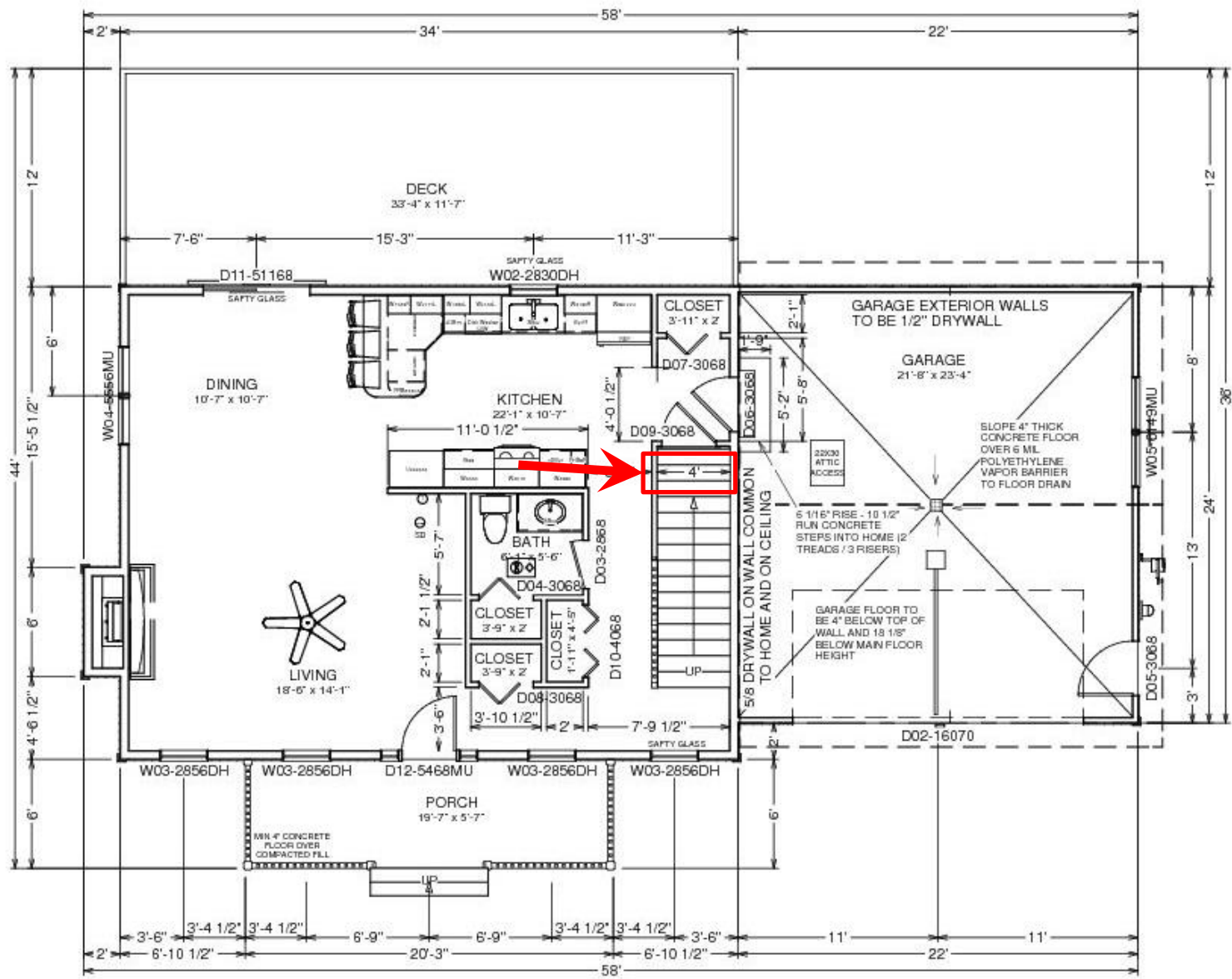
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#	Date	Issue Description
1	3/12/2012	Construction Final
2		
3		

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Scale: 1/8" = 1'

Sheet # 7



MAIN FLOOR PLAN

## Question #19

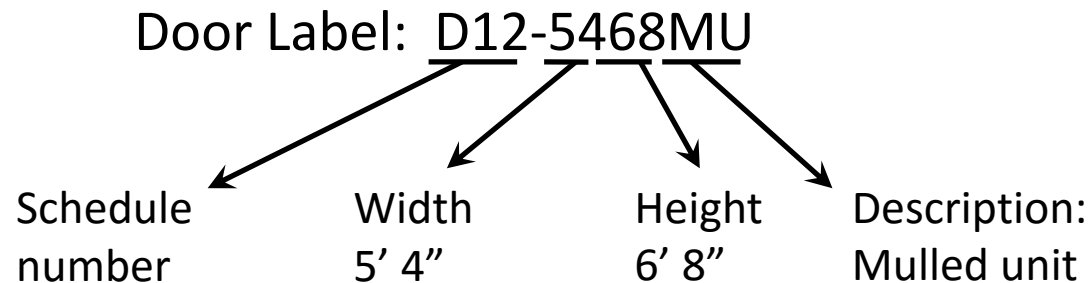
What is the size of the front door assembly?

- a. 2'8" x 6'8"      c. 3'0" x 6'8"  
b. 2'8" x 5'6"      d. 5'4" x 6'8"

Logic:

1. Look at the Main Floor Plan, find the front door and its label

Answer:



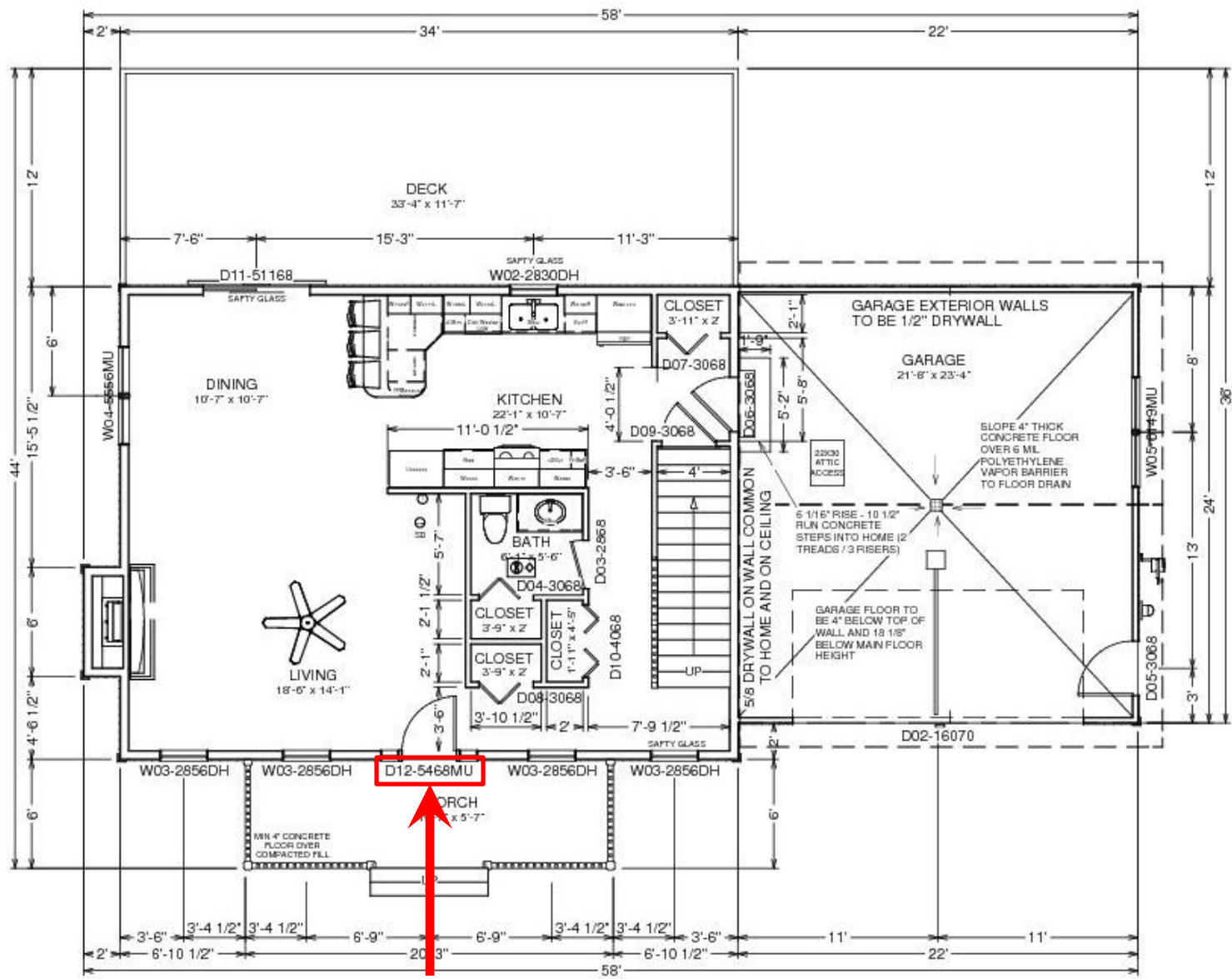
**5'4" wide by 6'8" tall**

#	Date	Issue Description
1	3/12/2012	Construction Final
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3		

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Scale: 1/8" = 1'

Sheet # 7



MAIN FLOOR PLAN

## Question #20

**How many board feet is the header above the main front door?**

- a. 9.5 – 9.7                      c. 110 – 120  
b. 19.1 – 19.2                    d. 225 – 235

### Logic:

1. Look at the Main Floor Plan, find the front door and its label
2. Now look at sheet 17, find the door schedule
3. Next find D12 in the schedule and look in the header column to find the size and quantity of header material. It is 2x10x69 (2)  
It is 2" x 10" material, 69" long, quantity of 2

### Math:

Board Feet = (width x thickness x length) ÷ 144 (all in inches)

$$(2 \times 10 \times 69) \div 144 = 9.58 \text{ bf for one 2x10}$$

$$2 \times 9.58 = \mathbf{19.17 \text{ board feet}}$$

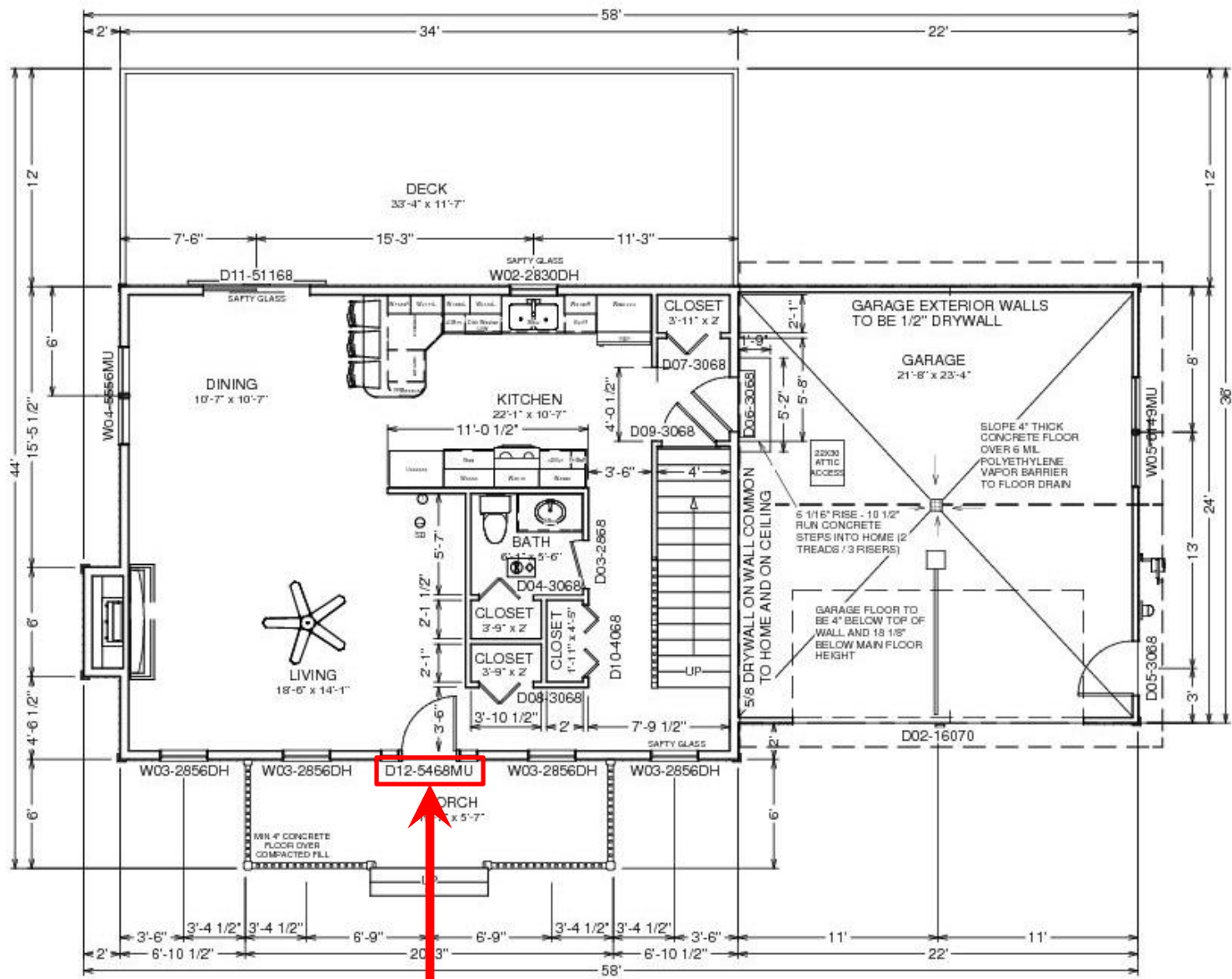


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Scale: 1/8" = 1'

Sheet # 7



MAIN FLOOR PLAN

DOOR SCHEDULE NUMBER	QTY	FLOOR	SIZE	R/O	DESCRIPTION	HEADER
D01	1	0	51168 R EX	71 1/4"X80"	EXT. SLIDER-GLASS - COLOR - WHITE	2X10X74 1/4" (2)
D02	1	1	16070	195"X85 1/2"	GARAGE 4-PANEL (LONG) - COLOR - WHITE	2X6 Lam. Gar. Tr.
D03	1	1	2868 L IN	34"X82 1/2"	HINGED 2 PANEL - COLOR - WHITE	2X10X37" (2)
D04	1	1	3068 L	38"X82 1/2"	2 DR. BIFOLD-SLAB	2X10X41" (2)
D05	1	1	3068 L EX	38"X82 1/2"	EXT. HINGED 4 PANEL - COLOR - WHITE	2X10X41" (2)
D06	1	1	3068 L EX	38"X82 1/2"	EXT. HINGED 4 PANEL - COLOR - WHITE	2X10X41" (2)
D07	1	1	3068 R	38"X82 1/2"	2 DR. BIFOLD 2-PANEL - COLOR - WHITE	2X10X41" (2)
D08	1	1	3068 R	38"X82 1/2"	2 DR. BIFOLD 2-PANEL - COLOR - WHITE	2X10X41" (2)
D09	1	1	3068 R IN	38"X82 1/2"	HINGED 2 PANEL - COLOR - WHITE	2X10 (4) (2)
D10	1	1	4068	50"X82 1/2"	4 DR. BIFOLD-SLAB	2X10 (4) (2)
D11	1	1	51168 R EX	71 1/4"X80"	EXT. SLIDER-GLASS - COLOR - WHITE	2X10 (74 1/4" (2)
D12	1	1	5468	66"X82 1/2"	MULLED UNIT	2X10X69" (2)
D13	1	2	2868 R IN	32"X82 1/2"	HINGED 2 PANEL - COLOR - WHITE	2X10X35" (2)
D14	4	2	2868 L IN	34"X82 1/2"	HINGED 2 PANEL - COLOR - WHITE	2X10X37" (2)
D15	3	2	2868 R IN	34"X82 1/2"	HINGED 2 PANEL - COLOR - WHITE	2X10X37" (2)
D16	1	2	3068 R EX	38"X82 1/2"	EXT. HINGED-GLASS - COLOR - WHITE	2X10X41" (2)
D17	1	2	5068 IN	74"X82 1/2"	DOUBLE HINGED 2 PANEL - COLOR - WHITE	2X10X80" (2)

WINDOW SCHEDULE NUMBER	QTY	FLOOR	SIZE	DIMENSIONS	R/O	EGRESS	DESCRIPTION	HEADER
W01	2	0	2856DH	31 1/2"X65 5/8" DH	32"X66 1/8"	YES	DOUBLE HUNG	2X10X35" (2)
W02	1	1	2830DH	31 1/2"X35 1/2" DH	32"X36"	NO	DOUBLE HUNG	2X10X35" (2)
W03	4	1	2856DH	31 1/2"X65 5/8" DH	32"X66 1/8"	YES	DOUBLE HUNG	2X10X35" (2)
W04	1	1	6149	73"X56 5/8"	73 1/2"X57 1/8"	YES	MULLED UNIT	2X10X79 1/2" (2)
W05	6	2	2856DH	31 1/2"X65 5/8" DH	32"X66 1/8"	YES	DOUBLE HUNG	2X10X35" (2)
W06	1	1	5556	65"X65 5/8"	65 1/2"X66 1/8"	YES	MULLED UNIT	2X10X68 1/2" (2)

CABINET SCHEDULE						
NUMBER	LABEL	QTY	FLOOR	DIMENSIONS	HEIGHT	DESCRIPTION
C01	4DB15	1	1	15X24X36"	36"	BASE CABINET
C02	4DB21	1	1	21X24X36"	36"	BASE CABINET
C03	B2142R	1	1	21X24X42"	42"	BASE CABINET
C04	B21R	1	1	21X24X36"	36"	BASE CABINET
C05	B33	1	1	33X24X36"	36"	BASE CABINET
C06	DCB3642R	1	1	36X36X42"	42"	CORNER BASE CABINET
C07	FHB9R	1	1	9X24X36"	36"	BASE CABINET
C08	PRB24942	1	1	24X9X42"	42"	PENINSULA RADIUS BASE CABINET
C09	SB42	2	1	42X24X36"	36"	BASE CABINET
C10	SB4222	2	2	42X22X36"	36"	BASE CABINET
C11	SB5422	1	2	54X22X36"	36"	BASE CABINET
C12	U362484	1	1	36X24X84"	84"	UTILITY CABINET
C13	U441584	1	2	44X15X84"	84"	UTILITY CABINET
C14	W1530R	1	1	15X12X30"	30"	WALL CABINET
C15	W1830L	1	1	18X12X30"	30"	WALL CABINET
C16	W2115L	1	1	21X12X15"	15"	WALL CABINET
C17	W2130L	1	1	21X12X30"	30"	WALL CABINET
C18	W2130R	1	1	21X12X30"	30"	WALL CABINET
C19	W3015	1	1	30X12X15"	15"	WALL CABINET
C20	W3030	1	1	30X12X30"	30"	WALL CABINET
C21	W3330	1	1	33X12X30"	30"	WALL CABINET
C22	W361224	1	1	36X24X12"	12"	WALL CABINET

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**SCHEDULES**

#	Date	Issue Description	
		Construction	Final
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SB-01 general contract and all other items listed in this program, including, but not limited to, items of mechanical, electrical, plumbing, and fire protection, shall be the responsibility of the contractor. The contractor shall be responsible to verify all dimensions, materials, and quantities, and coordinate with the architect and building codes before beginning construction.

Scale: 1/8" = 1'

Sheet # 17

## Question #21

What is the swing of door D05-3068 in the garage?

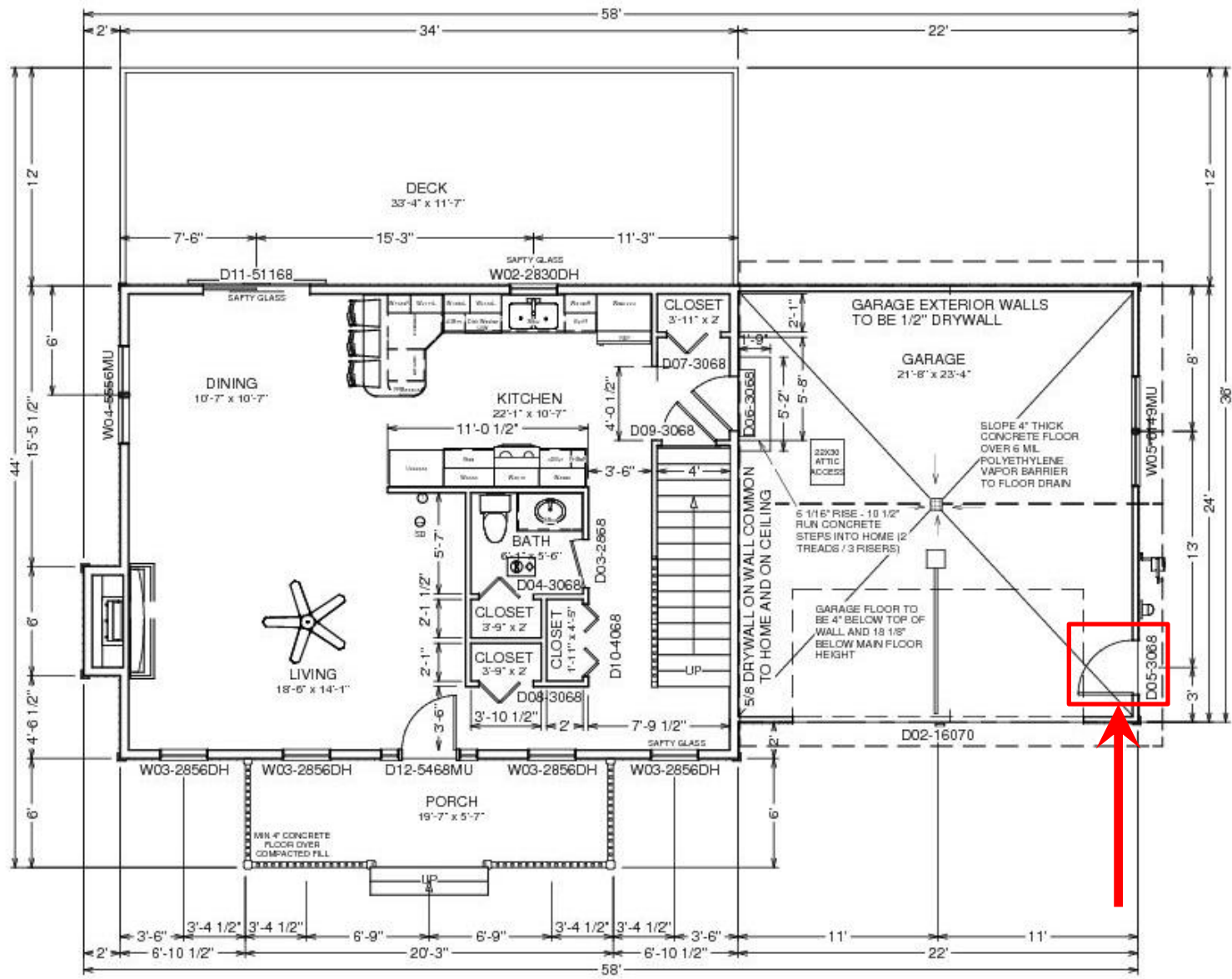
- a. Sliding
- b. Bi-Fold
- c. Right
- d. Left

### Logic:

1. Look at the Main Floor Plan, find door D05-3068 in the side of the garage. From the outside the hinges are on the left. It is a left hand swing door.
2. Or look at sheet 17 in the size column for D05, find 3068 L EX. 3068 is the size, L stands for left swing door, EX stands for exterior

### Answer:

**Left swing door**



MAIN FLOOR PLAN

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**MAIN FLOOR**

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1	3/12/2012	Construction Final
2		
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Scale: 1/8" = 1'



DOOR SCHEDULE NUMBER	QTY	FLOOR	SIZE	R/O	DESCRIPTION	HEADER
D01	1	0	51168 R EX	71 1/4"X80"	EXT. SLIDER-GLASS - COLOR - WHITE	2X10X74 1/4" (2)
D02	1	1	16071	195"X85 1/2"	GARAGE 4-PANEL (LONG) - COLOR - WHITE	2X6 Lam. Gar. Hdr.
D03	1	1	2868 L IN	34"X82 1/2"	HINGED 2 PANEL - COLOR - WHITE	2X10X37" (2)
D04	1	1	3068	38"X82 1/2"	2 DR. BIFOLD-SLAB	2X10X41" (2)
D05	1	1	3068 L EX	38"X82 1/2"	EXT. HINGED 4 PANEL - COLOR - WHITE	2X10X41" (2)
D06	1	1	3068 L EX	38"X82 1/2"	EXT. HINGED 4 PANEL - COLOR - WHITE	2X10X41" (2)
D07	1	1	3068 R	38"X82 1/2"	2 DR. BIFOLD 2-PANEL - COLOR - WHITE	2X10X41" (2)
D08	1	1	3068 R	38"X82 1/2"	2 DR. BIFOLD 2-PANEL - COLOR - WHITE	2X10X41" (2)
D09	1	1	3068 R IN	38"X82 1/2"	HINGED 2 PANEL - COLOR - WHITE	2X10X41" (2)
D10	1	1	4068	50"X82 1/2"	4 DR. BIFOLD-SLAB	2X10X53" (2)
D11	1	1	51168 R EX	71 1/4"X80"	EXT. SLIDER-GLASS - COLOR - WHITE	2X10X74 1/4" (2)
D12	1	1	5468	56"X82 1/2"	MULLED UNIT	2X10X69" (2)
D13	1	2	2668 R IN	32"X82 1/2"	HINGED 2 PANEL - COLOR - WHITE	2X10X35" (2)
D14	4	2	2868 L IN	34"X82 1/2"	HINGED 2 PANEL - COLOR - WHITE	2X10X37" (2)
D15	3	2	2868 R IN	34"X82 1/2"	HINGED 2 PANEL - COLOR - WHITE	2X10X37" (2)
D16	1	2	3068 R EX	38"X82 1/2"	EXT. HINGED-GLASS - COLOR - WHITE	2X10X41" (2)
D17	1	2	5068 IN	74"X82 1/2"	DOUBLE HINGED 2 PANEL - COLOR - WHITE	2X10X80" (2)

WINDOW SCHEDULE NUMBER	QTY	FLOOR	SIZE	DIMENSIONS	R/O	EGRESS	DESCRIPTION	HEADER
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W02	1	1	2830DH	31 1/2"X35 1/2" DH	32"X36"	NO	DOUBLE HUNG	2X10X35" (2)
W03	4	1	2856DH	31 1/2"X65 5/8" DH	32"X66 1/8"	YES	DOUBLE HUNG	2X10X35" (2)
W04	1	1	5149	73"X56 5/8"	73 1/2"X57 1/8"	YES	MULLED UNIT	2X10X79 1/2" (2)
W05	6	2	2856DH	31 1/2"X65 5/8" DH	32"X66 1/8"	YES	DOUBLE HUNG	2X10X35" (2)
W06	1	1	5556	55"X65 5/8"	55 1/2"X66 1/8"	YES	MULLED UNIT	2X10X68 1/2" (2)

CABINET SCHEDULE						
NUMBER	LABEL	QTY	FLOOR	DIMENSIONS	HEIGHT	DESCRIPTION
C01	4DB15	1	1	15X24X36"	36"	BASE CABINET
C02	4DB21	1	1	21X24X36"	36"	BASE CABINET
C03	B2142R	1	1	21X24X42"	42"	BASE CABINET
C04	B21R	1	1	21X24X36"	36"	BASE CABINET
C05	B33	1	1	33X24X36"	36"	BASE CABINET
C06	DCB3642R	1	1	36X36X42"	42"	CORNER BASE CABINET
C07	FHB9R	1	1	9X24X36"	36"	BASE CABINET
C08	PRB24942	1	1	24X9X42"	42"	PENINSULA RADIUS BASE CABINET
C09	SB42	2	1	42X24X36"	36"	BASE CABINET
C10	SB4222	2	2	42X22X36"	36"	BASE CABINET
C11	SB422	1	2	54X22X36"	36"	BASE CABINET
C12	U362484	1	1	36X24X84"	84"	UTILITY CABINET
C13	U441584	1	2	44X15X84"	84"	UTILITY CABINET
C14	W1530R	1	1	15X12X30"	30"	WALL CABINET
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C16	W2115L	1	1	21X12X15"	15"	WALL CABINET
C17	W2130L	1	1	21X12X30"	30"	WALL CABINET
C18	W2130R	1	1	21X12X30"	30"	WALL CABINET
C19	W3015	1	1	30X12X15"	15"	WALL CABINET
C20	W3030	1	1	30X12X30"	30"	WALL CABINET
C21	W3330	1	1	33X12X30"	30"	WALL CABINET
C22	W361224	1	1	36X24X12"	12"	WALL CABINET

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			1	2
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Scale: 1/8" = 1'

Sheet # 17

## Question #22

How many cubic yards of concrete are needed to pour the front port slab?

- a. 1.30 – 1.40                      c. 2.0 – 2.1  
b. 1.45 – 1.55                      d. 2.2 – 2.3

### Logic:

1. Look at the Main Floor Plan, find the porch dimensions. The dimensions are 20' 3" (243") x 6' (72")
2. Look at the Main Floor Plan, find the note in the porch area calling out a 4" (.33') thick slab.

### Math:

All units of measurement need to be converted to feet so that all of the math is calculated in the same units.  $3'' \div 12 = .25'$ ,  $4'' \div 12 = .33'$

### Answer:

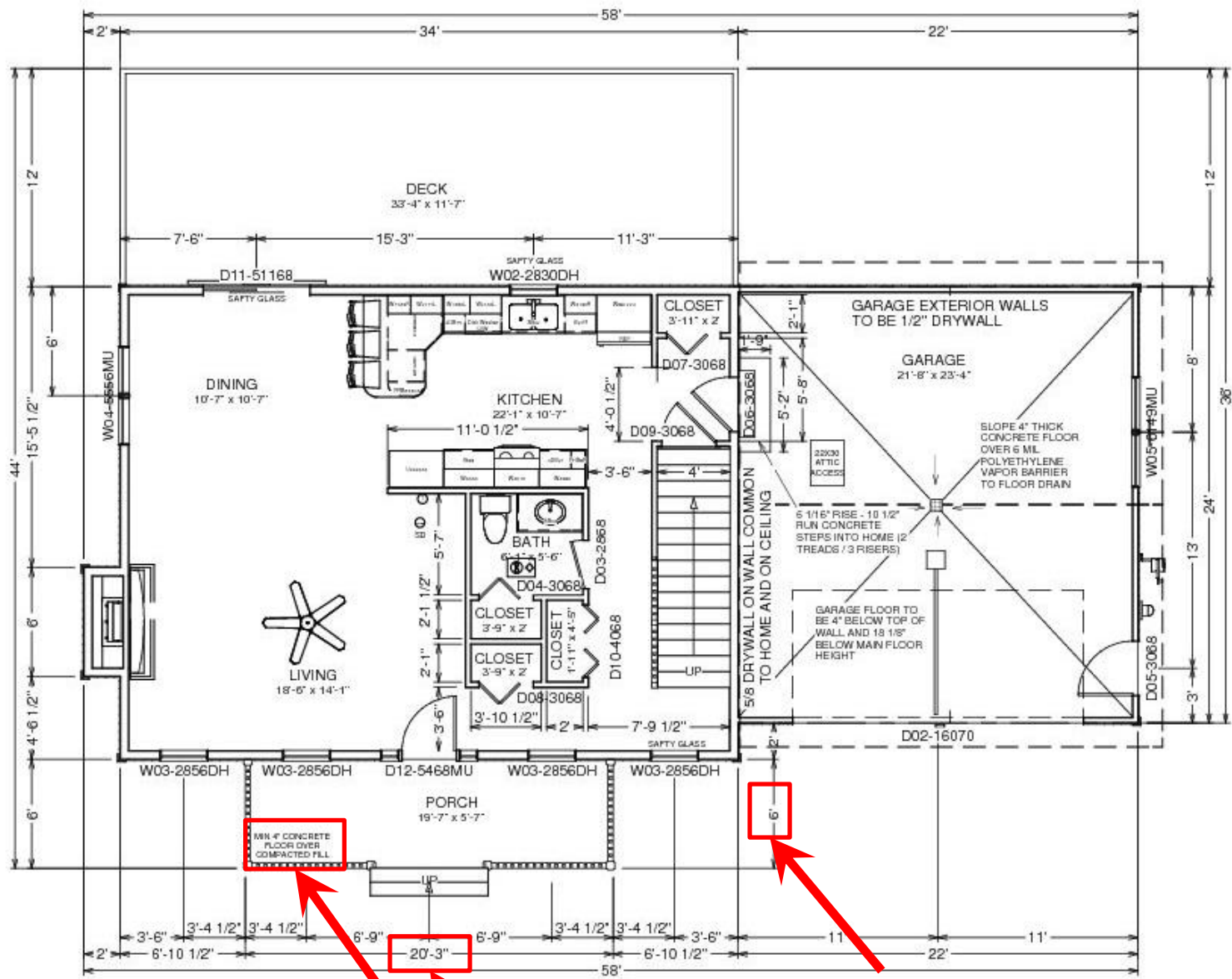
$20.25' \times 6' \times .33' = 40.1$  cubic feet (To convert cubic feet to cubic yards, divide by 27)

$40.1 \div 27 = \underline{\underline{1.49 \text{ cubic yards}}}$

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Scale: 1/8" = 1'



MAIN FLOOR PLAN

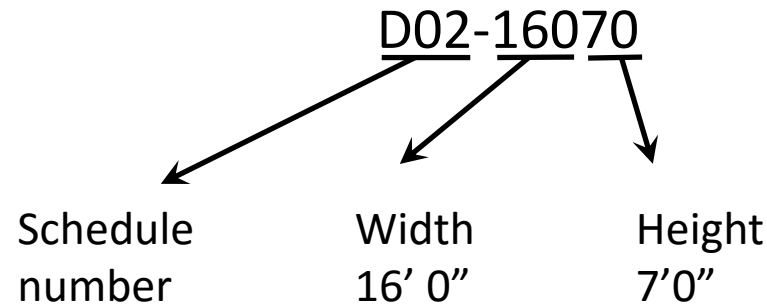
## Question #23

What is the size of the garage door?

- a. 8' x 7'                      c. 16' x 7'  
b. 160" x 70"                d. 160" x 7'

**Logic:**

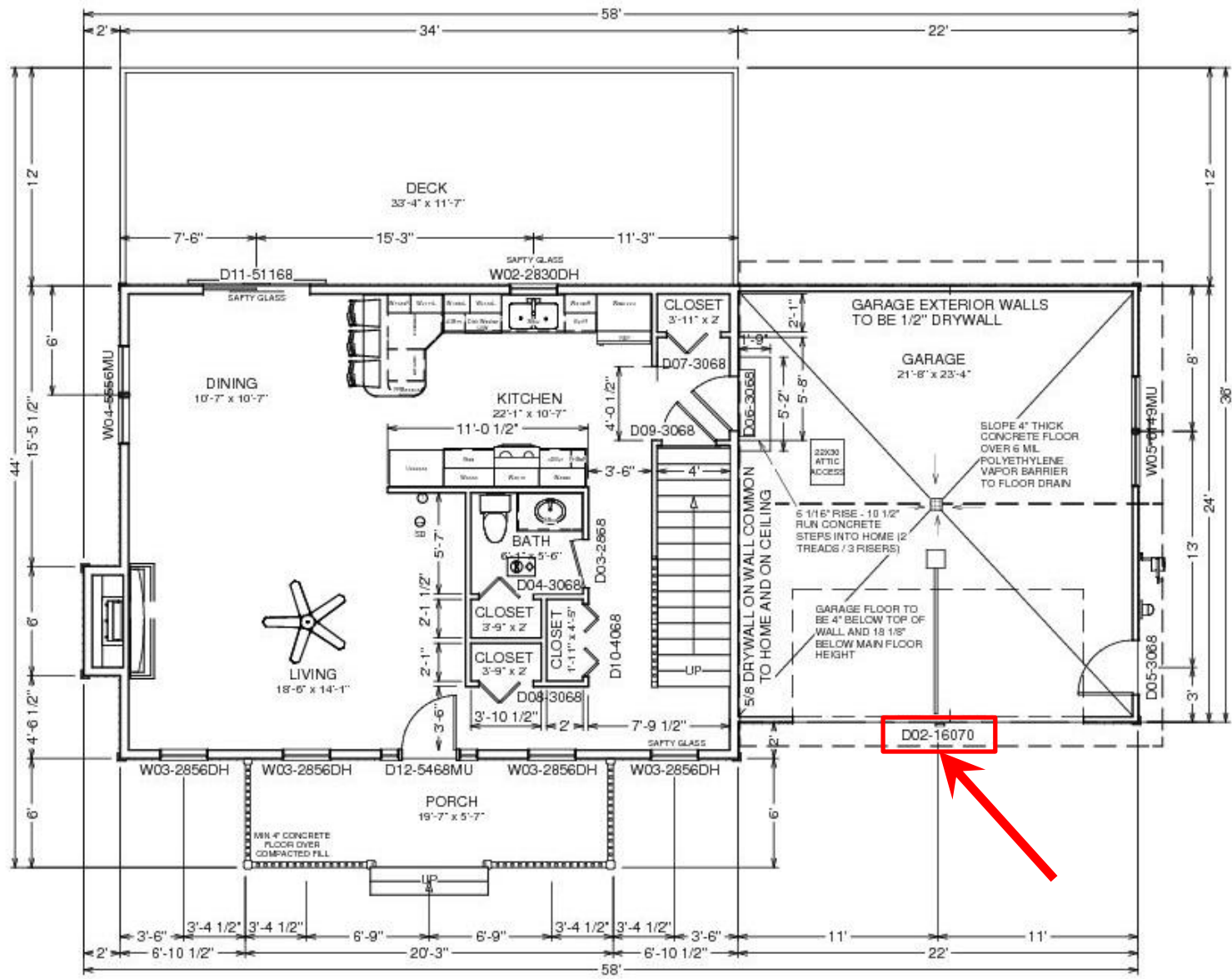
1. Look at the Main Floor Plan, find the garage door and its label



**Note:** Width is always the first dimension with windows and doors.

**Answer:**     **16' x 7'**





MAIN FLOOR PLAN

#	Date	Issue Description
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2		
3		

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Scale: 1/8" = 1'

## Question #24

What is the height of the floor joist?

- a. 9 1/4"
- b. 11 1/4"
- c. 11 7/8"
- d. 1' 0 5/8"

### Logic:

1. Look at sheet 13, find the note that calls out 11 7/8" I joist 16" O.C. typical

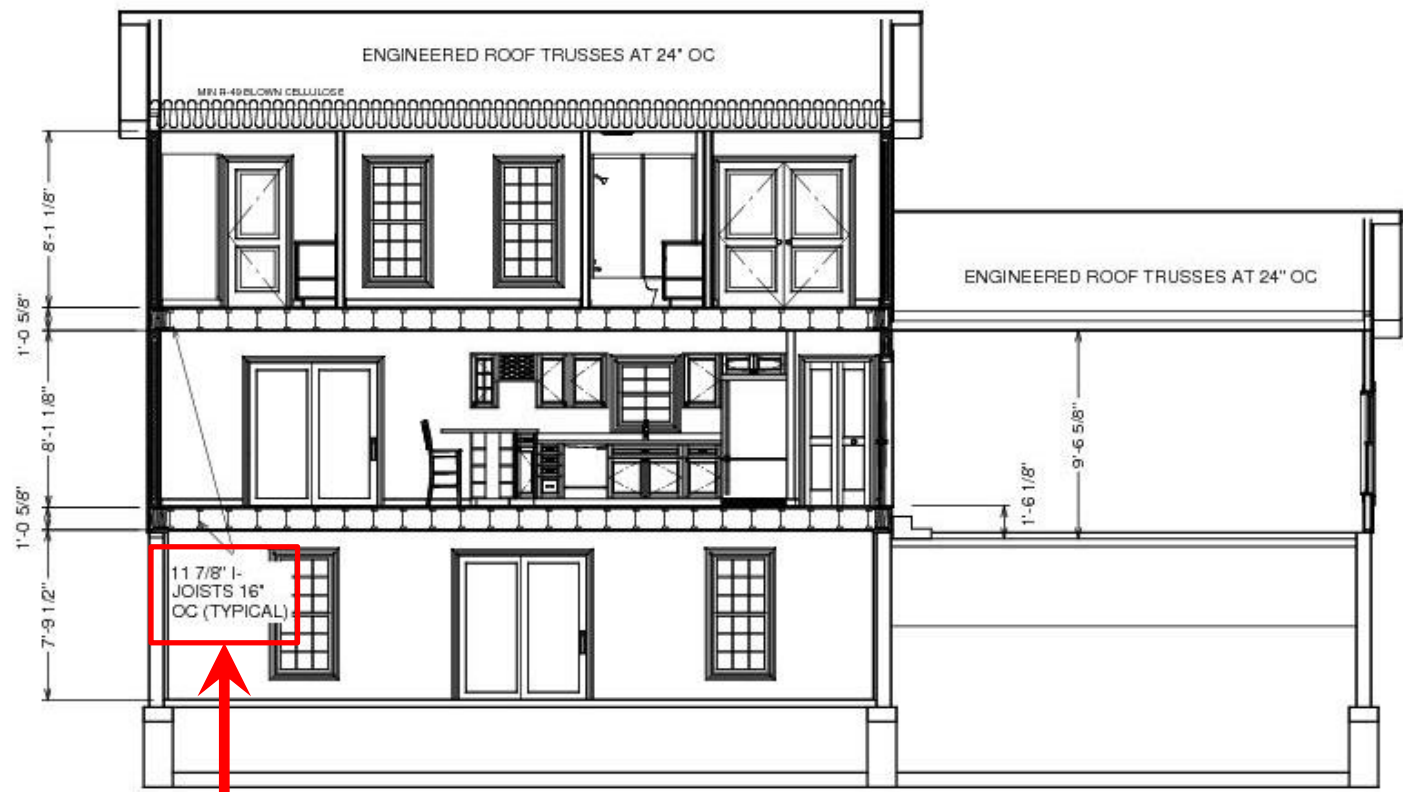
**Answer: 11' 7/8"**

#	Date	Issue Description
1	3/12/2012	Construction Final
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Scale: 1/8" = 1'

Sheet # 13



RIGHT TO LEFT CROSS SECTION

## Question #25

**What is the distance from the floor to the top of all windows?**

- a. 60"
- b. 65"
- c. 80'
- d. 80"

### Logic:

1. Look at sheet 3, find the specification in the window section that calls out top of all windows are to be 80" from floor

**Answer: 80"**

## General Notes:

### Local Design Criteria Assumptions

1. Ground Snow Load: 50 psf per figure R301.2(5)
2. Wind Speed: 90 mph per figure R301.2(4)
3. Wind Exposure Category: B per R301.2.1.4
4. Seismic Category: A per figure R301.2(2)
5. Weathering: Severe per figure R301.2(3)
6. Frost Line Depth: 42" per R403.1.4
7. Termites: Slight to Moderate per figure R301.2(6)
8. Winter Design Temp.: 0°F per figure R301.2(1)
9. Ice Shield Under-Layment: Yes per R905.2.7.1
10. Flood Hazards: N/A
11. Air Freezing Index: 1000 – 1500 per figure R403.3(2)
12. Mean Annual Air Temp.: 50 °F per [www.ncdc.noaa.gov/fpsf.html](http://www.ncdc.noaa.gov/fpsf.html)
13. Site Soil Group & Class: Group 1 & Class SP/SM per table R405.1
14. Soil Bearing Capacity: 2000 lbs/sqft per table R401.4.1
15. Climate Zone: 5A

### Site Address

1. Premise to be identified per R319

### Public Utilities

1. Natural gas, 220V/200A electricity, 4 line telephone, and cable TV are to be underground and installed per the site plan/Main floor, floor plan

### Windows

1. All windows must comply with R303, R308, R310, R612, 2009 MUEC 303.1.3, 2009 MUEC 402.3
2. All windows shall meet the following:
  - a. Construction: Wood frame and sash
  - b. Exterior cladding: Vinyl or Aluminum
  - c. Glass: Dual pane, High Performance, Low-E, insulated
  - d. Exterior color: White
  - e. Interior color: Pre-finished White
  - f. Style: Double hung, Tilt wash
  - g. Size and swing: Per plan and schedule
  - h. Hardware: Include, color: white
  - i. Screens: Include, color: white
  - j. Extension jambs: Include, Pre-finished White
3. Top of all windows are to be 80" from floor
4. Extension jambs (if needed) are to be factory applied 6 9/16" jamb width

### Doors

#### Exterior doors

1. All doors must comply with R311, MUEC 303.1.3, 2009 MUEC 402.3
2. All exterior doors shall meet the following:
  - a. Construction: Insulated steel
  - b. Style: 4 Panel (no glass)
  - c. Appearance: Smooth surfaces
  - d. Hardware finish: Brushed Nickel
  - e. Size and swing: Per plan and schedule
  - f. Factory finish: Pre-primed
  - g. Field finish: 100% acrylic latex paint
  - h. Handles: Supplied by homeowner
3. Garage to house door must be per R302.5.1
4. Main entrance door (3'-0") is to have two 12" full height glass side lights, on a factory assembly one piece continuous sill.

5. All garage doors shall meet the following:
  - a. Construction: Insulated steel
  - b. Style: Raised panel (no glass)
  - c. Exterior appearance: Textured surface
  - d. Size: Per plan and schedule
  - e. Factory finish: Pre-finished white
  - f. Field finish: None
  - g. Opener: Screw drive, 1/2 HP

#### Interior doors

1. All doors must comply with Section R311
2. All interior passage doors shall meet the following:
  - a. Construction: Molded, solid core
  - b. Style: 2 Panel
  - c. Appearance: Smooth surfaces
  - d. Hardware finish: Brushed Nickel
  - e. Size and swing: Per plan and schedule
  - f. Factory finish: Pre-primed
  - g. Field finish: White Acrylic Latex paint, semi-gloss
  - h. Handles: Schlage Georgian Brushed Nickel
3. All interior bi-fold doors shall meet the following:
  - a. Construction: Molded, hollow core
  - b. Style: 2 Panel
  - c. Appearance: Smooth surfaces
  - d. Hardware finish: Brushed Nickel
  - e. Size and swing: Per plan and schedule
  - f. Factory finish: Pre-primed
  - g. Field finish: White Acrylic Latex paint, semi-gloss
  - h. Handles: Schlage Georgian Brushed Nickel

#### Exterior Coverings

1. All siding is to be vinyl double 6" exposure. The siding must comply with R703.1, R703.11, and table R702.3.7
2. All siding shall meet the following:
  - a. Type: Lap
  - b. Exterior appearance: Cedar wood siding
  - c. Exposure: 6"
3. Weather resistive barrier shall be installed per R703, all joints must be taped and all penetration must be sealed to prevent water intrusion and air leakage
4. Flashing shall be installed per R708.3 to prevent water intrusion

#### Exterior Trim

1. All exterior trim is to be a composite wood material resistant to decay.
2. All exterior trim shall meet the following:
  - a. Exterior appearance: Cedar wood siding
  - b. Size and exposure: 5/4" x 6" or supplier spec. x 6"
  - c. Factory finish: Pre-primed
  - d. Field finish: 100% acrylic latex paint
  - e. Joint treatment: Caulk all joints
  - f. Fastening method: Face nailing
3. All doors and windows shall be wrapped with exterior trim. All outside exterior corners shall have exterior trim.
4. Flashing shall be installed per R708.3 to prevent water intrusion

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Issue Description	Construction Final
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#	1
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Scale: 1/8" = 1'

Sheet # 3

## Question #26

What is efficiency rating of the air conditioner?

- a. 10
- b. 11
- c. 12
- d. 13

### Logic:

1. Look at sheet 4, find the specification in the mechanical/HVAC section that calls out 13 SEER air conditioner

**Answer: 13 SEER**

**Note:** The higher the SEER number, the more efficient the unit



## Energy Efficiency

### Interior Trim

1. All interior trim is to be pre-primed paint grade MDF.
2. All interior trim shall meet the following:
  - a. Base size: 4 1/4" x 7/16"
  - b. Case size: 3 1/4" x 11/16"
  - c. Style: Colonial
  - d. Factory finish: Pre-primed
  - e. Field finish: White Acrylic Latex paint, semi-gloss
  - f. Joint treatment: Caulk all joints and nail holes
  - g. Fastening method: Face nailing

### Smoke and CO Alarms

1. All smoke alarms must comply with Section R314
2. All CO alarms must comply with Section R315
3. All smoke and CO alarms will be interconnected, AC powered with battery back-up
4. See floor plan for alarm locations

### Fire blocking

1. All fire blocking must comply with R302.11
2. All fire blocking materials must comply with R302.11.1 and R302.11.1.1 thru R302.11.1.3
3. Fire blocking must be provided at the following locations:
  - a. In concealed spaces of stud walls and partitions, including furred at the ceiling and floor levels and at 10' intervals both horizontal and vertical.
  - b. At all interconnections between horizontal and vertical spaces such as occur at soffits over cabinets, drop ceilings, cove ceilings and similar locations.
  - c. In concealed spaces between stair stringers at the top and bottom of the run
  - d. At openings around vents, pipes, ducts, chimneys, and fireplaces at ceiling and floor levels with noncombustible materials.

### Garage/Driveway/Porch/Patio/Sidwalk

1. All concrete floors must comply with R309.1, R402.2, R506
2. All garage floors, porch floors, driveways, patios, and sidewalks shall be a minimum 3500psi compressive strength air entrained concrete constructed over a clean sand base course.
3. The driveway and sidewalk portion as specified on the site plan shall be 6" thick slab
4. The garage, porch and patio shall be a 4" thick slab
5. The garage slab shall be over a 6 mil polyethylene vapor barrier

### Deck and Upper Floor Porch

1. Deck and upper floor porch shall constructed to meet or exceed American Wood Council, Design for Code Acceptance #6 (DCA 6), Prescriptive Residential Wood Deck Construction Guide
2. Finish skirt board applied around deck and upper floor porch to hide joists and beams.

### Insulation

1. All insulation must comply with the 2009 MUEC prescriptive approach and Section R316
2. All insulation shall meet the following:
  - a. Basement Wall: R-10, 2.5" thick cellulose board
  - b. Walkout Basement slab: R-10, 2" thick XPS on interior of frost wall, down 2' - top of XPS cut at 45 degree angle to allow basement floor to meet foundation wall
  - c. Wall cavities: R-20, Dense packed dry applied Cellulose.
  - d. Flat ceiling cavities: R-49, loose fill Cellulose
  - e. Attic hatch: R-38 + R-11 batts, for 24' O.C, securely fastened in place
  - f. Fenestrations: U Factor of 0.35 or lower

### Air Sealing

1. All air sealing must comply with the 2009 MUEC, Section 402.4
2. Air sealing verification shall be a visual inspection per Section 402.4.2.2
3. Building Envelope, all of the following will be caulked, gasketed, weatherstripped, or otherwise sealed with an air barrier material:
  - a. All joints, seams, and penetrations
  - b. Window and door rough openings
  - c. Utility penetrations
  - d. Knee walls
  - e. Wall and ceilings separating a garage from a conditioned space
  - f. Behind tubs and showers on exterior walls
  - g. Attic hatch will sealed with foam rubber weather strip tape per 402.2.3
  - h. Fireplace shall have door gasket per 402.4.3
4. All recessed lighting will be of type IC air tight construction

### Electrical/Lighting

1. All lighting will be high efficiency per Section 404 of the 2009 MUEC

### Mechanical/HVAC

1. 95% efficient natural gas forced air furnace with a 2 stage burner and a variable speed blower
  - a. Furnace shall be sized per M1401.3
  - 2. 13 SEER air conditioner**
3. A programmable thermostat shall be installed to control HVAC system
4. All duct joist must be sealed with foil peel and stick tape or duct mastic conforming to UL181

### Exhaust Fan

1. All exhaust fans must comply with Section R303, Section M1507, MUEC section 403.5, and manufactures installation instructions.
2. All bathroom exhaust fans are to be fan/light combination units with each function switched individually. The exterior color is to be white. The fan is to be rated at 110 CFM or greater, with the exhaust ducting terminated at the exterior of the structure. The fan will have an integrated gravity damper to close the system when on in use.

### Electrical Panel Certification

1. A permanent certificate shall be posted on or in the electrical distribution panel per 2009 MUEC Section 401.3

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Sheet Title:  
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Issue Description	Date	1	2	3
Construction Final	3/12/2012			

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Scale: 1/8" = 1'

Sheet # 4

## **Question #27**

**What type of wall insulation is to be installed in the wall cavities?**

- a. R-10 cellulose board**
- b. R-13 kraft faced fiberglass batts**
- c. R-20 dense packed dry applied cellulose**
- d. R-49 loose fill cellulose**

### **Logic:**

1. Look at sheet 4, find the specification in the insulation section that calls out R20, dense packed dry applied cellulose

### **Answer:**

**R-20 dense packed dry applied cellulose**



## Energy Efficiency

### Interior Trim

1. All interior trim is to be pre-primed paint grade MDF.
2. All interior trim shall meet the following:
  - a. Base size: 4 1/4" x 7/16"
  - b. Case size: 3 1/4" x 11/16"
  - c. Style: Colonial
  - d. Factory finish: Pre-primed
  - e. Field finish: White Acrylic Latex paint, semi-gloss
  - f. Joint treatment: Caulk all joints and nail holes
  - g. Fastening method: Face nailing

### Smoke and CO Alarms

1. All smoke alarms must comply with Section R314
2. All CO alarms must comply with Section R315
3. All smoke and CO alarms will be interconnected, AC powered with battery back-up
4. See floor plan for alarm locations

### Fire blocking

1. All fire blocking must comply with R302.11
2. All fire blocking materials must comply with R302.11.1 and R302.11.1.1 thru R302.11.1.3
3. Fire blocking must be provided at the following locations:
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  - c. Utility penetrations
  - d. Knee walls
  - e. Wall and ceilings separating a garage from a conditioned space
  - f. Behind tubs and showers on exterior walls
  - g. Attic hatch will sealed with foam rubber weather strip tape per 402.2.3
  - h. Fireplace shall have door gasket per 402.4.3
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3. A programmable thermostat shall be installed to control HVAC system
4. All duct joist must be sealed with foil peel and stick tape or duct mastic conforming to UL181

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2. All bathroom exhaust fans are to be fan/light combination units with each function switched individually. The exterior color is to be white. The fan is to be rated at 110 CFM or greater, with the exhaust ducting terminated at the exterior of the structure. The fan will have an integrated gravity damper to close the system when on in use.

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Issue Description	Date	1	2	3
Construction Final	3/12/2012			

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Scale: 1/8" = 1'

Sheet # 4

## Question #28

What is the size of the steel reinforcement in the foundation walls?

- a. #1
- b. #3
- c. #4
- d. #5

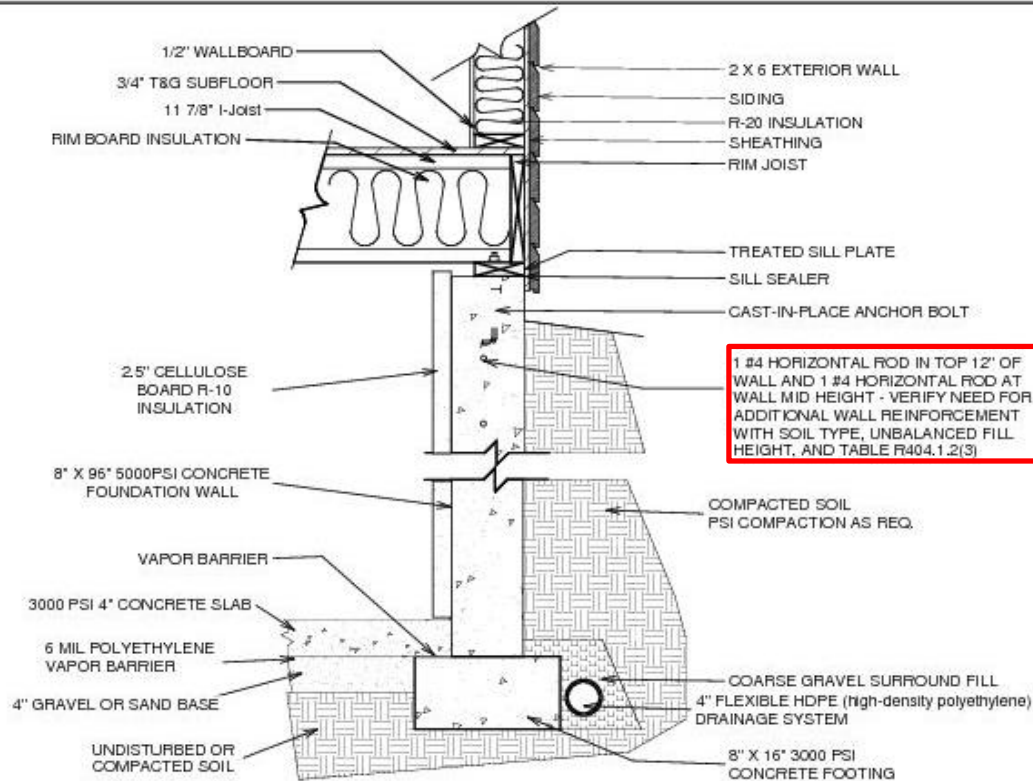
### Logic:

1. Look at sheet 15, find the note that calls out the size of the steel reinforcement

**Answer: #4**

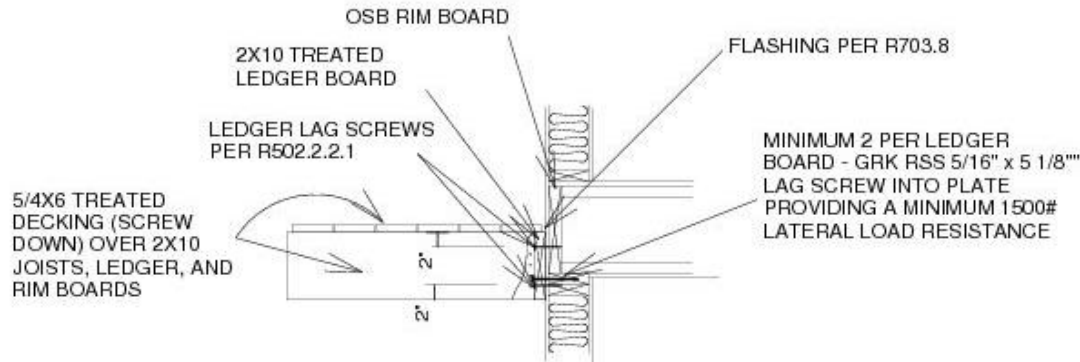
### Note:

The English measurement for diameter of reinforcement bar is measured in 1/8<sup>th</sup> of an inch. Example: #4 is 4/8 or 1/2", #5 is 5/8".



1 #4 HORIZONTAL ROD IN TOP 12" OF WALL AND 1 #4 HORIZONTAL ROD AT WALL MID HEIGHT - VERIFY NEED FOR ADDITIONAL WALL REINFORCEMENT WITH SOIL TYPE, UNBALANCED FILL HEIGHT, AND TABLE R404.1.2(3)

BASEMENT FOUNDATION DETAIL



DECK ATTACHMENT DETAIL (TYPICAL ALL DECKS)

Issue Description	Date	1	2	3
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## Question #29

**What type of exterior trim is required for finishing around windows and doors?**

- a. 1" x 6" Treated pine**
- b. 5/4" x 6" Composite wood material**
- c. 1" x 6" Cedar**
- d. 2" x 6" Composite wood material**

### **Logic:**

1. Look at sheet 3, find the specification in the exterior trim section that calls out the type and style of exterior trim.

### **Answer:**

**Composite wood material 5/4" x 6" (cedar appearance)**



## General Notes:

### Local Design Criteria Assumptions

1. Ground Snow Load: 50 psf per figure R301.2(5)
2. Wind Speed: 90 mph per figure R301.2(4)
3. Wind Exposure Category: B per R301.2.1.4
4. Seismic Category: A per figure R301.2(2)
5. Weathering: Severe per figure R301.2(3)
6. Frost Line Depth: 42" per R403.1.4
7. Termites: Slight to Moderate per figure R301.2(6)
8. Winter Design Temp.: 0°F per figure R301.2(1)
9. Ice Shield Under-Layment: Yes per R905.2.7.1
10. Flood Hazards: N/A
11. Air Freezing Index: 1000 – 1500 per figure R403.3(2)
12. Mean Annual Air Temp.: 50 °F per [www.ncdc.noaa.gov/fpsf.html](http://www.ncdc.noaa.gov/fpsf.html)
13. Site Soil Group & Class: Group 1 & Class SP/SM per table R405.1
14. Soil Bearing Capacity: 2000 lbs/sqft per table R401.4.1
15. Climate Zone: 5A

### Site Address

1. Premise to be identified per R319

### Public Utilities

1. Natural gas, 220V/200A electricity, 4 line telephone, and cable TV are to be underground and installed per the site plan/Main floor, floor plan

### Windows

1. All windows must comply with R303, R308, R310, R612, 2009 MUEC 303.1.3, 2009 MUEC 402.3
2. All windows shall meet the following:
  - a. Construction: Wood frame and sash
  - b. Exterior cladding: Vinyl or Aluminum
  - c. Glass: Dual pane, High Performance, Low-E, insulated
  - d. Exterior color: White
  - e. Interior color: Pre-finished White
  - f. Style: Double hung, Tilt wash
  - g. Size and swing: Per plan and schedule
  - h. Hardware: Include, color: white
  - i. Screens: Include, color: white
  - j. Extension jambs: Include, Pre-finished White
3. Top of all windows are to be 80" from floor
4. Extension jambs (if needed) are to be factory applied 6 9/16" jamb width

### Doors

#### Exterior doors

1. All doors must comply with R311, MUEC 303.1.3, 2009 MUEC 402.3
2. All exterior doors shall meet the following:
  - a. Construction: Insulated steel
  - b. Style: 4 Panel (no glass)
  - c. Appearance: Smooth surfaces
  - d. Hardware finish: Brushed Nickel
  - e. Size and swing: Per plan and schedule
  - f. Factory finish: Pre-primed
  - g. Field finish: 100% acrylic latex paint
  - h. Handles: Supplied by homeowner
3. Garage to house door must be per R302.5.1
4. Main entrance door (3'-0") is to have two 12" full height glass side lights, on a factory assembly one piece continuous sill.

5. All garage doors shall meet the following:
  - a. Construction: Insulated steel
  - b. Style: Raised panel (no glass)
  - c. Exterior appearance: Textured surface
  - d. Size: Per plan and schedule
  - e. Factory finish: Pre-finished white
  - f. Field finish: None
  - g. Opener: Screw drive, 1/2 HP

#### Interior doors

1. All doors must comply with Section R311
2. All interior passage doors shall meet the following:
  - a. Construction: Molded, solid core
  - b. Style: 2 Panel
  - c. Appearance: Smooth surfaces
  - d. Hardware finish: Brushed Nickel
  - e. Size and swing: Per plan and schedule
  - f. Factory finish: Pre-primed
  - g. Field finish: White Acrylic Latex paint, semi-gloss
  - h. Handles: Schlage Georgian Brushed Nickel
3. All interior bi-fold doors shall meet the following:
  - a. Construction: Molded, hollow core
  - b. Style: 2 Panel
  - c. Appearance: Smooth surfaces
  - d. Hardware finish: Brushed Nickel
  - e. Size and swing: Per plan and schedule
  - f. Factory finish: Pre-primed
  - g. Field finish: White Acrylic Latex paint, semi-gloss
  - h. Handles: Schlage Georgian Brushed Nickel

#### Exterior Coverings

1. All siding is to be vinyl double 6" exposure. The siding must comply with R703.1, R703.11, and table R702.3.7
2. All siding shall meet the following:
  - a. Type: Lap
  - b. Exterior appearance: Cedar wood siding
  - c. Exposure: 6"
3. Weather resistive barrier shall be installed per R703, all joints must be taped and all penetration must be sealed to prevent water intrusion and air leakage
4. Flashing shall be installed per R708.3 to prevent water intrusion

#### Exterior Trim

1. All exterior trim is to be a composite wood material resistant to decay.
2. All exterior trim shall meet the following:
  - a. Exterior appearance: Cedar wood siding
  - b. Size and exposure: 5/4" x 6" or supplier spec. x 6"
  - c. Factory finish: Pre-primed
  - d. Field finish: 100% acrylic latex paint
  - e. Joint treatment: Caulk all joints
  - f. Fastening method: Face nailing
3. All doors and windows shall be wrapped with exterior trim. All outside exterior corners shall have exterior trim.
4. Flashing shall be installed per R708.3 to prevent water intrusion

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Issue Description	Construction Final
Date	3/12/2012
#	1
	2
	3

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Scale: 1/8" = 1'

Sheet # 3

## Question #30

What is the height and width of the basement foundation walls measured from the footings?

- a. 8" x 9'
- b. 8" x 16"
- c. 8" x 8'
- d. 4" x 8'

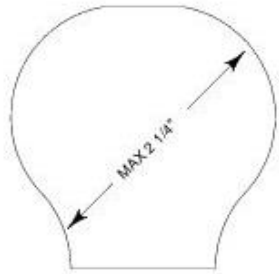
### Logic:

1. Look at sheet 16, find the note that calls out an 8" x 8' 5000psi reinforced concrete wall

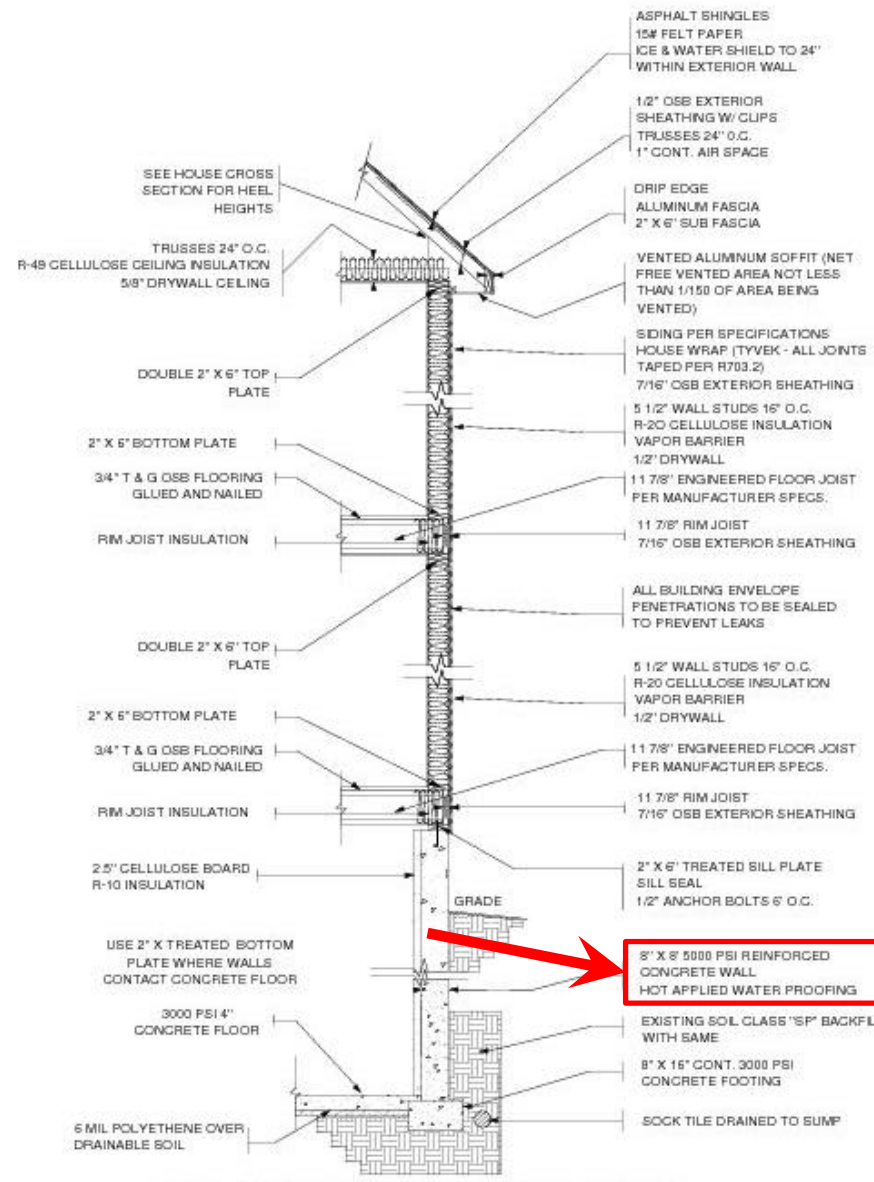
### Answer:

**8" x 8'**

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		3



PER R311.5.6.3 ALL HANDRAILS SHALL BE GRASPABLE WITH A PERIMETER NOT LESS THAN 4" AND NOT GREATER THAN 6 1/4" AND A MAXIMUM CROSS SECTION OF 2 1/4"



**8" X 8" 5000 PSI REINFORCED CONCRETE WALL  
HOT APPLIED WATER PROOFING**

WALL SECTION NOTES (NOT TO SCALE)

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