

## GENERAL NOTES

DO NOT SCALE DRAWINGS, USE PRINTED DIMENSIONS ONLY. IF ANY DISCREPANCY OCCURS NOTIFY THE ARCHITECT IMMEDIATELY FOR DIRECTION.

ALL FOURED CONC. FTGS. SHALL EXTEND TO A MINIMUM DEPTH OF 42" BELOW PROPOSED FINISHED GRADE IN ACCORDANCE WITH 2009 MICHIGAN RESIDENTIAL CODE, AND SHALL BEAR ON VIRGIN UNDISTURBED SOIL. ADDITIONAL DEPTH MAY BE REQUIRED AS DICTATED BY SOIL CONDITIONS. ALLOWABLE SOIL BEARING PRESSURE OF 3000 P.S.F. IS ASSUMED FOR FOOTING SIZES SHOWN ON PLAN. VERIFICATION OF ALLOWABLE SOIL BEARING CAPACITY OF 3000 P.S.F. AT EACH JOBSITE IS RESPONSIBILITY OF CONTRACTOR AND SHALL MEET MINIMUM 2009 MICHIGAN RESIDENTIAL CODE. QUESTIONABLE SOIL CONDITIONS ARE TO BE INVESTIGATED BY A QUALIFIED SOILS ENGINEER.

ALL FOURED CONC. WALLS WITH BRICK LEDGE GREATER THAN 4'-0" SHALL BE REINFORCED WITH #5 BARS 24" O.C. VERTICALLY WITH ONE #4 BAR TOP AND BOTTOM OF WALL HORIZONTALLY OR EQUAL.

ALL FOURED CONC. WALLS TO BE BACKFILLED WITH SUITABLE TYPE BACKFILL MATERIAL THAT IS NOT WET CLAY OR IN FROZEN CHUNKS AND BE WELL BRACED UNTIL CONC. IS THOROUGHLY CURED AND ADDITIONAL WEIGHT OF THE BUILDING IS IN PLACE. BACKFILLING SHALL COMPLY WITH THE 2009 MICHIGAN RESIDENTIAL CODE.

ALL FOURED CONC. WALLS WITH 1'-0" OR MORE BACKFILL TO BE REINFORCED WITH #4 BARS 16" O.C. VERTICALLY WITH ONE #4 BAR TOP AND BOTTOM OF WALL HORIZONTALLY. ALTERNATE: #5 BARS 24" O.C. VERTICALLY WITH ONE #4 BAR TOP AND BOTTOM OF WALL HORIZONTALLY.

ALL WINDOW NUMBERS REFER TO GENERIC WINDOW SIZES. NOTES REFER TO WIDTH BY LENGTH CALLED OFF IN FEET AND INCHES. EX: 3050 SH + 3'-0" WIDE BY 5'-0" TALL SINGLE HUNG. WINDOW MANUFACTURER TO MATCH ALL SIZES AND SHAPES DIMENSIONALLY. ANY VARIATIONS TO BE VERIFIED WITH ARCHITECT.

PROVIDE WIND BRACING IN CONFORMANCE WITH 2009 MICHIGAN RESIDENTIAL CODE.

ALL EGRESS WINDOWS SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT MORE THAN 44" ABOVE THE FLOOR. HAVE A NET CLEAR OPENING OF 5.7 SQ. FT. HAVE A MIN. CLEAR HEIGHT DIM. OF 24" AND A MIN. CLEAR OPENING WIDTH DIM. OF 20".

ROOF TRUSS DESIGN BY TRUSS MANUFACTURER TO CONFORM TO ALL MINIMUM DESIGN LOAD REQUIREMENTS AND BUILDER TO BRACE ROOF TRUSSES AS REQUIRED BY MANUFACTURER'S DETAILED DRAWINGS.

ROOF TRUSS FRAMING INDICATED ON DRAWINGS IS OUR ASSUMED LAYOUT. TRUSS MANUFACTURER SHALL REVIEW THE DRAWINGS AND INDICATE TO ARCHITECT, PRIOR TO FABRICATION, ANY CHANGE IN BEARING CONDITIONS THAT WOULD REQUIRE RE-FRAMING OF OUR STRUCTURE TO ACCOMMODATE TRUSSES.

BUILDER MUST PROVIDE TRUSS DESIGN DATA (R106.14) AT TIME OF PERMITTING OR PROVIDE TRUSS DESIGN DRAWINGS PRIOR TO INSTALLATION OF TRUSSES.

ALL CONVENTIONAL FRAMING HEADERS, BEAMS AND RAFTERS 2 X 10 AND LESS TO BE #2 OR BETTER HEM FIR. ALL 2 X 12'S TO BE #2 OR BETTER DOUGLAS FIR.

### FLOOR JOIST LOADING CRITERIA

#### FIRST FLOOR LOADING:

LIVE LOAD 40 P.S.F.  
DEAD LOAD 15 P.S.F.  
TOTAL LOAD 55 P.S.F.  
LIVE LOAD DEFLECTION L/480  
TOTAL LOAD DEFLECTION L/240

#### SECOND FLOOR LOADING:

LIVE LOAD 40 P.S.F.  
DEAD LOAD 10 P.S.F.  
TOTAL LOAD 50 P.S.F.  
LIVE LOAD DEFLECTION L/480  
TOTAL LOAD DEFLECTION L/240

#### FLOOR W/CERAMIC TILE/MARBLE:

LIVE LOAD 40 P.S.F.  
DEAD LOAD 25 P.S.F.  
TOTAL LOAD 65 P.S.F.  
LIVE LOAD DEFLECTION L/720  
TOTAL LOAD DEFLECTION L/360

### EXT. DECK JOIST LOADING CRITERIA

#### DECK LOADING:

LIVE LOAD 50 P.S.F.  
DEAD LOAD 10 P.S.F.  
TOTAL LOAD 60 P.S.F.  
LIVE LOAD DEFLECTION L/360  
TOTAL LOAD DEFLECTION L/240

### ROOF TRUSS LOADING CRITERIA

TOP CHORD LIVE LOAD 30 P.S.F.  
DEAD LOAD 1 P.S.F.

BOTT. CHORD LIVE LOAD 10 P.S.F.  
(UNINHABITABLE ATTICS W/OUT STORAGE)

LIVE LOAD 20 P.S.F.  
(UNINHABITABLE ATTICS WITH STORAGE)  
DEAD LOAD 10 P.S.F.

VERIFY AREAS OF DROPPED FLOORS FOR CERAMIC TILE WITH BUILDER AND COORDINATE ALL CERAMIC TILE AREAS SHOWN AND NOT SHOWN WITH I-JOIST MANUFACTURER OR ARCHITECT FOR PROPER DESIGN.

APPLY WATER-RESISTANT GYPSUM BACKER BOARD TO ALL AREAS SUBJECT TO REPEATED DAMP CONDITIONS AND MOISTURE ACCUMULATION AS WELL AS COMPLY WITH THE 2009 MICHIGAN RESIDENTIAL CODE IN RELATED AREAS.

ALL SMOKE DETECTORS TO BE INTER-CONNECTED W/ BATTERY BACKUP IN COMPLIANCE WITH 2009 MICHIGAN RESIDENTIAL BUILDING CODE.

ALL STAIRWAYS, STAIRWAY GUARDS, HANDRAILS, BALUSTERS, HANDRAIL GRIP SIZE AND HEADROOM REQUIREMENTS TO COMPLY WITH 2009 MICHIGAN RESIDENTIAL CODE REQUIREMENTS.

ALL I-JOISTS ARE DESIGNED WITH TRUSS JOIST MAVERICK DESIGN STANDARDS AND ARE TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

ALL L.V.L. BEAMS AND HEADERS TO HAVE A MINIMUM 2 STUD BEARING @ EACH END UNLESS NOTED OTHERWISE.

ALL LAMINATED VENEER LUMBER (L.V.L.) TO HAVE A MODULUS OF ELASTICITY OF 13 (E=13) AND ARE TO BE JOINED TOGETHER PER MANUFACTURER'S SPECIFICATIONS.

ALL LAMINATED STRAND LUMBER (TIMBERSTRAND/ L.S.L.) TO HAVE A MODULUS OF ELASTICITY OF 13 (E=13) AND ARE TO BE JOINED TOGETHER PER MANUFACTURER'S SPECIFICATIONS.

I-JOIST LAYOUT AND DETAILS ARE FOR REFERENCE ONLY, AND ALL FLOOR SYSTEMS AND DETAILS SHALL BE VERIFIED BY I-JOIST MANUFACTURER LAYOUT PLAN THAT IS COORDINATED WITH APPROVED ROOF TRUSS LAYOUT.

A FLASHING INSPECTION IS REQUIRED PRIOR TO THE INSTALLATION OF A FULL WALL OF BRICK, AND SHALL COMPLY WITH THE 2009 MICHIGAN RESIDENTIAL CODE.

ALL HOLES NOTCHES CUT OR BORED INTO I-JOIST'S OR L.V.L.'S TO BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

NO. 15 FELT PAPER OR APPROVED WEATHER RESISTANT MATERIAL (R103.2) TO BE ATTACHED TO SHEATHING FLASHING BEHIND ANY VENEERS OF BRICK, CLAY, TILE, CONCRETE, OR NATURAL/ARTIFICIAL STONE AND SHALL COMPLY WITH THE 2009 MICHIGAN RESIDENTIAL CODE (TABLE R103.4).

ALL MASONRY VENEER WALLS TO BE PROVIDED WITH WALL TIES & WEERPOLES PER CURRENT CODES INCLUDING COMPLIANCE WITH THE 2009 MICHIGAN RESIDENTIAL CODE WHEN INSTALLING STONE AND MASONRY VENEERS.

### NOTE:

ALL FOOTINGS ARE DESIGNED FOR 3000 P.S.F. IT IS THE RESPONSIBILITY OF THE BUILDER TO FIELD TEST THE SOIL AND TO CONTACT THE ARCHITECT AND/ OR ENGINEER IF THE SOIL CAPACITY IS UNDER 3000 P.S.F.

### NOTE:

ALL WOOD TRIM BOARDS TO BE PACKED OUT 1/2" FROM FRAMING

### EGRESS WINDOW REQUIREMENTS

- MIN. NET CLEAR OPENING OF 5.7 SQ. FT. (SECOND FLOOR BEDROOMS)
- MIN. NET CLEAR OPENING OF 5.0 SQ. FT. (FIRST FLOOR BEDROOMS ONLY)
- MIN. NET CLEAR OPENING HT. OF 24 INCHES
- MIN. NET CLEAR OPENING WIDTH OF 20 INCHES
- MAX. SILL HT. ABOVE FINISH FLOOR OF 44 INCHES

### AREAS THAT REQ. SAFETY GLAZING

UPDATED FOR THE 2009 MICHIGAN RESIDENTIAL CODE

FIXED OR OPERABLE GLAZING ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60" ABOVE THE WALKING SURFACE.

GLAZING IN DOORS & ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS & SHOWERS.

ANY GLAZING BENEATH HANDRAILS.

GLAZING ADJACENT TO STAIRWAYS, LANDINGS AND RAMPS WITHIN 36 INCHES HORIZONTALLY OF A WALKING SURFACE WHEN THE EXPOSED SURFACE OF THE GLASS IS LESS THAN 60 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE.

GLAZING ADJACENT TO STAIRWAYS WITHIN 60 INCHES HORIZONTALLY OF THE BOTTOM TREAD OF A STAIRWAY IN ANY DIRECTION WHEN THE EXPOSED SURFACE OF THE GLASS IS LESS THAN 60 INCHES ABOVE THE NOSE OF THE TREAD.

FIXED OR OPERABLE GLAZING THAT MEETS ALL THE FOLLOWING CONDITIONS:

- 1) EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THEN 9 SQ. FT.
- 2) BOTTOM EDGE LESS THAN 18" ABOVE THE FLOOR.
- 3) TOP EDGE GREATER THAN 36" ABOVE THE FLOOR.
- 4) ONE OR MORE WALKING SURFACES WITHIN 36" HORIZONTALLY OF THE GLAZING.

TABLE R103.13  
ALLOWABLE SPANS FOR LINTELS  
SUPPORTING MASONRY VENEER A,B,C

UPDATED FOR THE 2009 MICHIGAN RESIDENTIAL CODE

ANGLE SIZE	BEARING TO FASCIA	BEARING ONE LEVEL ABOVE	BEARING TWO LEVELS ABOVE	# OF 1/2" REINFORCING BARS REQ.
3 X 3 X 1/4"	6'-0"	4'-6"	3'-0"	1
4 X 3 X 1/4"	8'-0"	6'-0"	4'-6"	1
5 X 3 1/2 X 5/16"	10'-0"	8'-0"	6'-0"	2
6 X 3 1/2 X 5/16"	14'-0"	9'-6"	7'-0"	2
2-6 X 3 1/2 X 5/16"	20'-0"	12'-0"	9'-6"	4

- LONG SIDE OF ANGLE TO BE PLACED IN A VERTICAL POSITION.
- REINFORCED LINTELS SHALL NOT BE LESS THAN 8 IN. TALL & ALL CELLS OF HOLLOW MASONRY LINTELS TO BE GROUTED SOLID. REINFORCEMENT SHALL NOT EXTEND LESS THAN 8 INCHES INTO THE SUPPORTING UNIT.
- ABOVE ITEMS ARE EXAMPLES. OTHER STEEL MEMBERS MEETING STRUCTURAL DESIGN REQUIREMENTS MAY BE USED.

### NOTE:

#### SECTION R103.12.2:

STEEL ANGLES SUPPORTING BRICK VENEER THAT IS LAG BOLTED TO ROOF CONSTRUCTION WITH SLOPES GREATER THAN 1:12 BUT NOT MORE THAN 12:12 SHALL HAVE STOPS OF A MINIMUM 3 INCHES X 3 INCHES X 1/4 INCH STEEL PLATE WELDED TO THE STEEL ANGLE AT 24 INCHES ON CENTER ALONG THE ANGLE OR AS APPROVED BY THE BUILDING OFFICIAL.

### REQ. ATTIC VENTILATION FIRST FLOOR

ATTIC SPACE = 930 SF.  
330 SF. / 3000 = 31 (SF. REQ'D)  
31 x 144 = 446 (SQ. INCH CONV.)  
446 / 2/3 = 298 (SQ. INCH REQ'D)

### REQ. ATTIC VENTILATION SECOND FLOOR

ATTIC SPACE = 1912 SF.  
1912 SF. / 3000 = 637 (SF. REQ'D)  
637 x 144 = 917 (SQ. INCH CONV.)  
917 / 2/3 = 631 (SQ. INCH REQ'D)  
631 / 18 = 35.1 (LIN. FT. OF RIDGE VENT REQ'D)

### SQUARE FOOTAGE

1ST FLOOR = 2431 SF  
2ND FLOOR = 1012 SF  
TOTAL = 3443 SF

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Job No:

007-109

SUBDIVISION: WILLOWBROOK III  
LOT #: 103  
SANDHU RESIDENCE  
CUSTOM ELEVATION  
GARAGE LEFT

CONST. SET ISSUED: 5/16/12

PERMIT SET ISSUED: 6/20/12

REV. PERMIT SET ISSUED: 9/27/12

REV. PERMIT SET ISSUED: 2/22/13

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GENERAL NOTES

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**FIRE SEPARATION NOTE** FOR LIVING SPACE ABOVE GARAGE

SPRINKLED FOR THE GARAGE FROM MECHANICAL CODE  
**FIRE SEPARATION (R302.3)**  
 GARAGE SPACE BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8-INCH TYPE X GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR-CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2-INCH GYPSUM BOARD OR EQUIVALENT. ALL OTHER GARAGE SPACE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2-INCH GYPSUM BOARD APPLIED TO THE GARAGE SIDE. DROP CLG. UNDER FLR. ABV. (ENCLOSE MECHANICAL AND STRUCTURAL ELEMENTS) VERIFY W/ BLDR

**NOTE:** STAIRWAY ILLUMINATION (R302.6)

ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS TO ILLUMINATE THE STAIRS, INCLUDING THE LANDINGS AND TREADS. INTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING OF THE STAIRWAY. FOR INTERIOR STAIRS THE ARTIFICIAL LIGHT SOURCES SHALL BE CAPABLE OF ILLUMINATING TREADS AND LANDINGS TO LEVELS NOT LESS THAN 1 FOOT-CANDLES MEASURED AT THE CENTER OF TREADS AND LANDINGS. EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIRWAY. EXTERIOR STAIRWAYS PROVIDING ACCESS TO A BASEMENT FROM THE OUTSIDE GRADE LEVEL SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE BOTTOM LANDING OF THE STAIRWAY. THE LIGHTING AND SWITCHING OF THE STAIRWELL WILL BE INSPECTED AN ELECTRICAL INSPECTOR.

**NOTE**

SECTION R102.42.4 & R102.4.3  
 WATER-RESISTANT GYPSUM BACKER BOARD SHALL NOT BE USED OVER A VAPOR RETARDER IN A SHOWER OR BATHTUB COMPARTMENT, WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY

**NOTE:**

1. ALL FIRST FLOOR CEILING HEIGHTS TO BE 9'-0" HIGH UNLESS NOTED OTHERWISE.
2. ALL FIRST FLOOR BASH HEIGHTS TO BE 8'-0" UNLESS NOTED OTHERWISE.

**NOTE**

SECTION E3802.11  
 ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.

**NOTE:** O.S.D.

ALL SMOKE DETECTORS INTERCONNECTED W/ BATTERY BACK-UP PER CODE.

**NOTE:**

BATHROOM EXHAUST FANS ARE TO VENT DIRECTLY TO THE OUTSIDE OF STRUCTURE

**NOTE:**

LANDINGS AT DOORS (R310.4.3)  
 THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF EACH EXTERIOR DOOR. WHERE A STAIRWAY OF 2 OR FEWER RISERS IS LOCATED ON THE EXTERIOR SIDE OF A DOOR, OTHER THAN THE REQUIRED EXIT DOOR, A LANDING IS NOT REQUIRED FOR THE EXTERIOR SIDE.

**NOTE:**

FRAME GARAGE WALLS EXCEEDING 10'-0" IN HEIGHT WITH 2x6 STUDS.

**NOTE:**

A LANDING AT AN EXTERIOR DOOR SHALL NOT BE MORE THAN 1 3/4" BELOW THE TOP OF THE THRESHOLD. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SWED. EVERY LANDING SHALL HAVE A MIN. DIMENSION OF 36" MEASURED IN THE DIRECTION OF TRAVEL.

**WALL BRACING NOTE:**

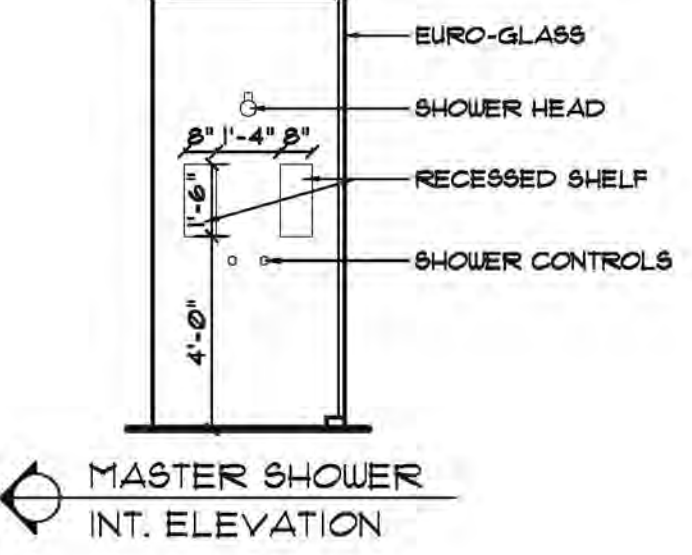
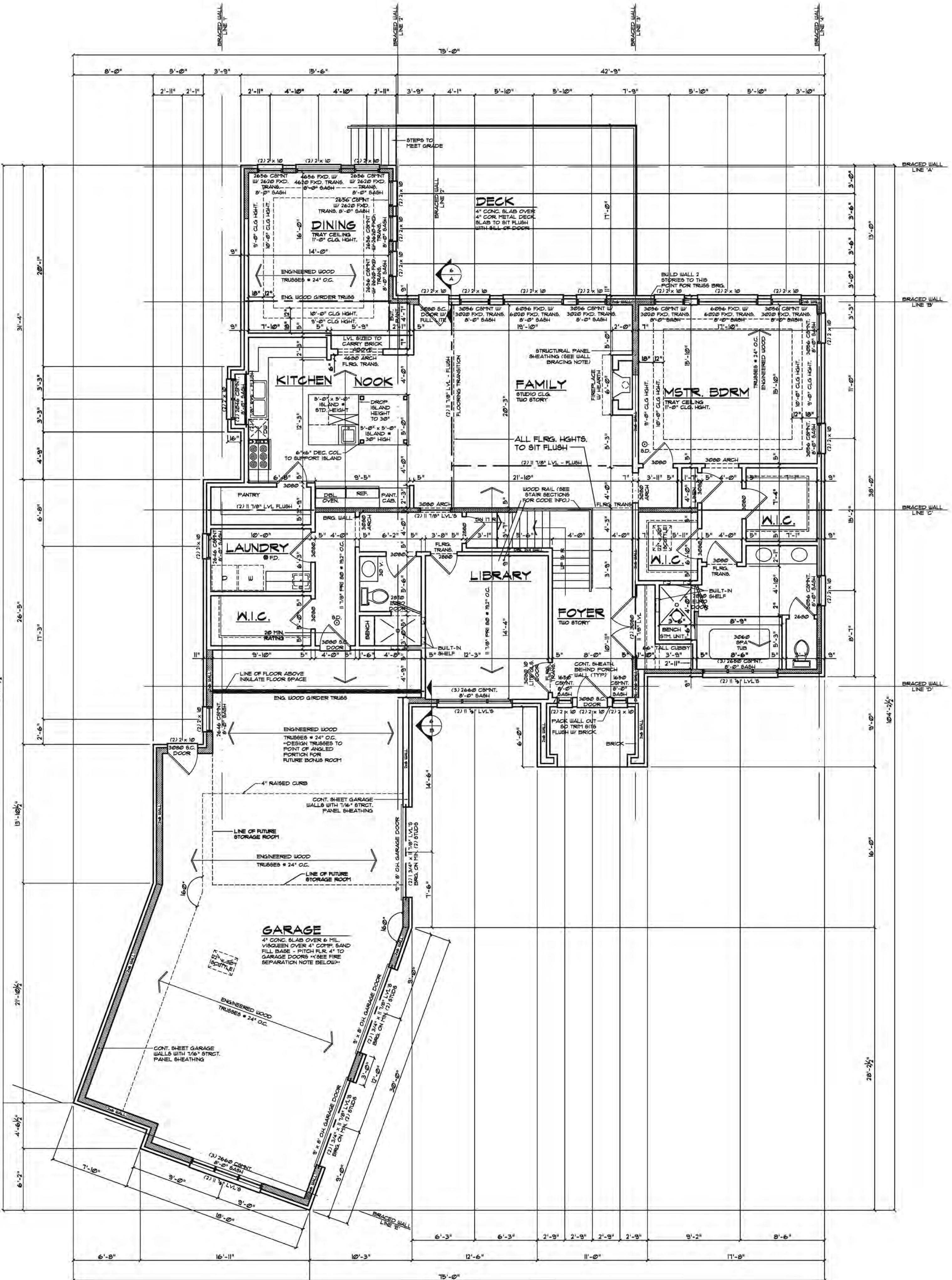
PER SECTION R602  
 WALL BRACING DESIGN BASED ON C8-108P FOR ALL EXTERIOR WALLS. WALLS TO BE BRACED WITH MIN. 3/8" STRUCTURAL PANEL SHEATHING PER R602.10.4

WIND LOAD BASED ON LESS THAN OR EQUAL TO 90 MPH

WALL BRACING DESIGN BASED ON GYPSUM BOARD FOR ALL INTERIOR WALLS PER R-602.10.2

BRACED WALLS TO BE ATTACHED TO FRAMING AT SILL AND TOP PLATES PER CODE

WALL CORNERS OFR CONTINUOUS STRUCTURAL SHEATHING TO BE CONSTRUCTED PER FIGURE R602.10.4(1)



**NOTE:**  
 INSTALL BLOCKING FOR FUTURE HANDRAILS

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Job No: **007-109**

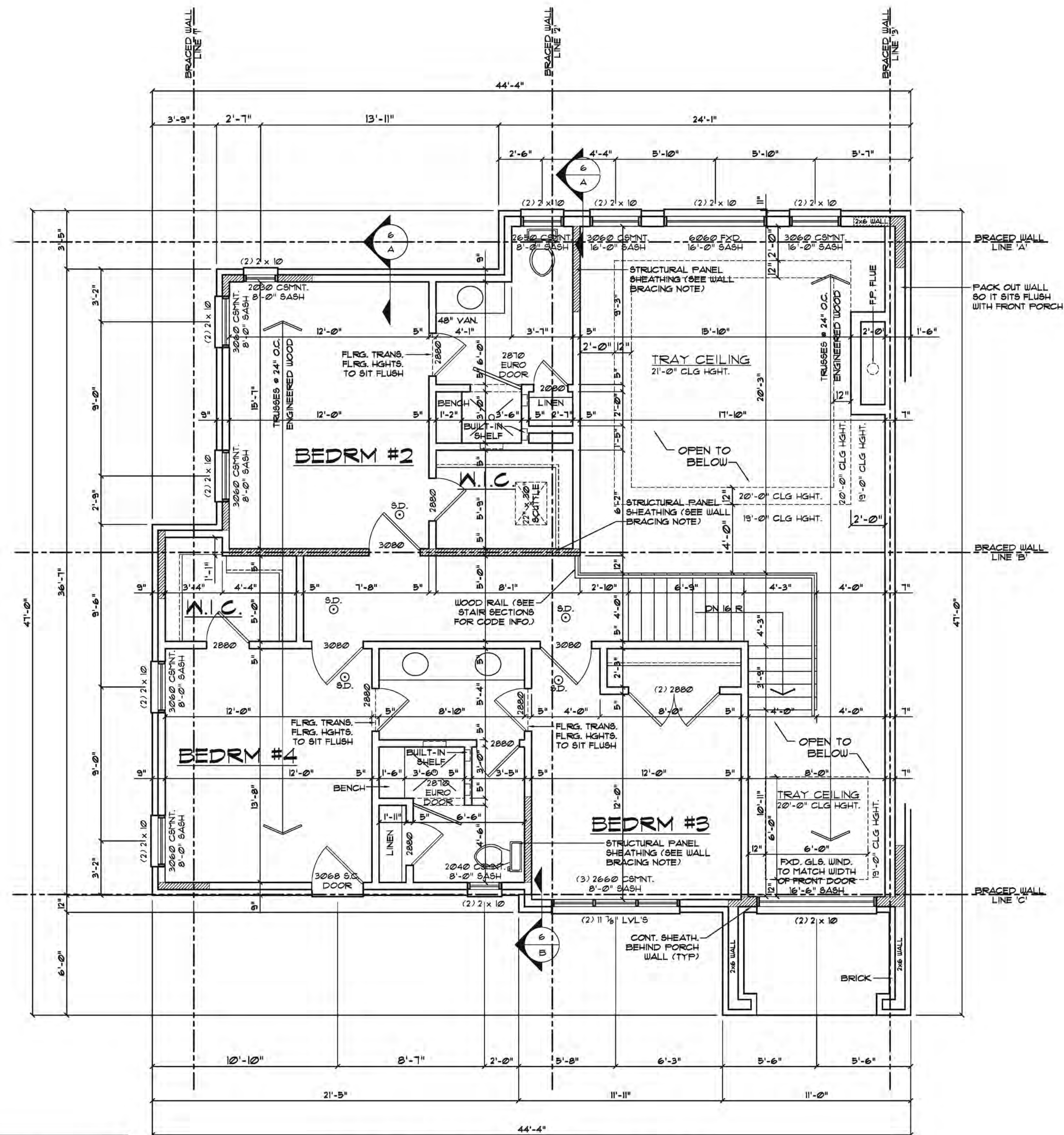
SUBDIVISION: WILLOWBROOK III  
 LOT # 103  
 SANDHU RESIDENCE  
 CUSTOM ELEVATION  
 GARAGE LEFT

CONST. SET ISSUED: 5/16/12  
 PERMIT SET ISSUED: 6/20/12  
 REV. PERMIT SET ISSUED: 9/27/12  
 REV. PERMIT SET ISSUED: 2/22/13

Sheet Name:  
**1ST FLOOR PLAN**

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**FIRST FLOOR PLAN**  
 SCALE: 3/8" = 1'-0"



### SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

#### FIRE SEPARATION NOTE FOR LIVING SPACE ABOVE GARAGE

UPDATED FOR THE 2009 IBC RESIDENTIAL CODE  
**FIRE SEPARATION (R302)**  
 GARAGE SPACE BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8-INCH TYPE X GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR-CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2-INCH GYPSUM BOARD OR EQUIVALENT. ALL OTHER GARAGE SPACE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2-INCH GYPSUM BOARD APPLIED TO THE GARAGE SIDE. DROP CLG. UNDER FLR. ABV. (ENCLOSE MECHANICAL AND STRUCTURAL ELEMENTS) VERIFY W/ BLDGR.

#### NOTE: STAIRWAY ILLUMINATION (R302.6)

ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS TO ILLUMINATE THE STAIRS, INCLUDING THE LANDINGS AND TREADS. INTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING OF THE STAIRWAY. FOR INTERIOR STAIRS THE ARTIFICIAL LIGHT SOURCES SHALL BE CAPABLE OF ILLUMINATING TREADS AND LANDINGS TO LEVELS NOT LESS THAN 1 FOOT-CANDLES MEASURED AT THE CENTER OF TREADS AND LANDINGS. EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIRWAY. EXTERIOR STAIRWAYS PROVIDING ACCESS TO A BASEMENT FROM THE OUTSIDE GRADE LEVEL SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE BOTTOM LANDING OF THE STAIRWAY. THE LIGHTING AND SWITCHING OF THE STAIRWELL WILL BE INSPECTED AN ELECTRICAL INSPECTOR.

#### NOTE: LANDINGS AT DOORS (R314.3)

THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF EACH EXTERIOR DOOR WHERE A STAIRWAY OF 2 OR FEWER RISERS IS LOCATED ON THE EXTERIOR SIDE OF A DOOR, OTHER THAN THE REQUIRED EXIT DOOR. A LANDING IS NOT REQUIRED FOR THE EXTERIOR SIDE.

A LANDING AT AN EXTERIOR DOOR SHALL NOT BE MORE THAN 1 3/4" BELOW THE TOP OF THE THRESHOLD. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SWAY. EVERY LANDING SHALL HAVE A MIN. DIMENSION OF 36" MEASURED IN THE DIRECTION OF TRAVEL.

#### NOTE: BATHROOM EXHAUST FANS

ARE TO VENT DIRECTLY TO THE OUTSIDE OF STRUCTURE

#### NOTE: S.D.

ALL SMOKE DETECTORS INTERCONNECTED W/ BATTERY BACK-UP PER CODE.

#### NOTE:

1. ALL SECOND FLOOR CEILING HEIGHTS TO BE 8'-0" HIGH UNLESS NOTED OTHERWISE.
2. ALL SECOND FLOOR SASH HEIGHTS TO BE 8'-0" UNLESS NOTED OTHERWISE.

#### NOTE

SECTION R102.4.2 & R102.4.3: WATER-RESISTANT GYPSUM BACKER BOARD SHALL NOT BE USED OVER A VAPOR RETARDER IN A SHOWER OR BATHUB COMPARTMENT, WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY

#### NOTE

SECTION E302.2: ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF THE ENTIRE BRANCH CIRCUIT.

#### WALL BRACING NOTE:

PER SECTION R602.2 WALL BRACING DESIGN BASED ON CS-WSP FOR ALL EXTERIOR WALLS. WALLS TO BE BRACED WITH MIN. 3/8" STRUCTURAL PANEL SHEATHING PER R602.10.4

WIND LOAD BASED ON LESS THAN OR EQUAL TO 30 MPH  
 WALL BRACING DESIGN BASED ON GYPSUM BOARD FOR ALL INTERIOR WALLS PER R-602.10.2

BRACED WALLS TO BE ATTACHED TO FRAMING AT SILL AND TOP PLATES PER CODE

WALL CORNERS OFR CONTINUOUS STRUCTURAL SHEATHING TO BE CONSTRUCTED PER FIGURE R602.10.4.4(1)

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 LOT #: 103  
 SANDHU RESIDENCE  
 CUSTOM ELEVATION  
 GARAGE LEFT

CONST. SET ISSUED: 5/16/12  
 PERMIT SET ISSUED: 6/20/12  
 REV. PERMIT SET ISSUED: 9/21/12  
 REV. PERMIT SET ISSUED: 2/22/13

Sheet No: 2ND FLOOR PLAN

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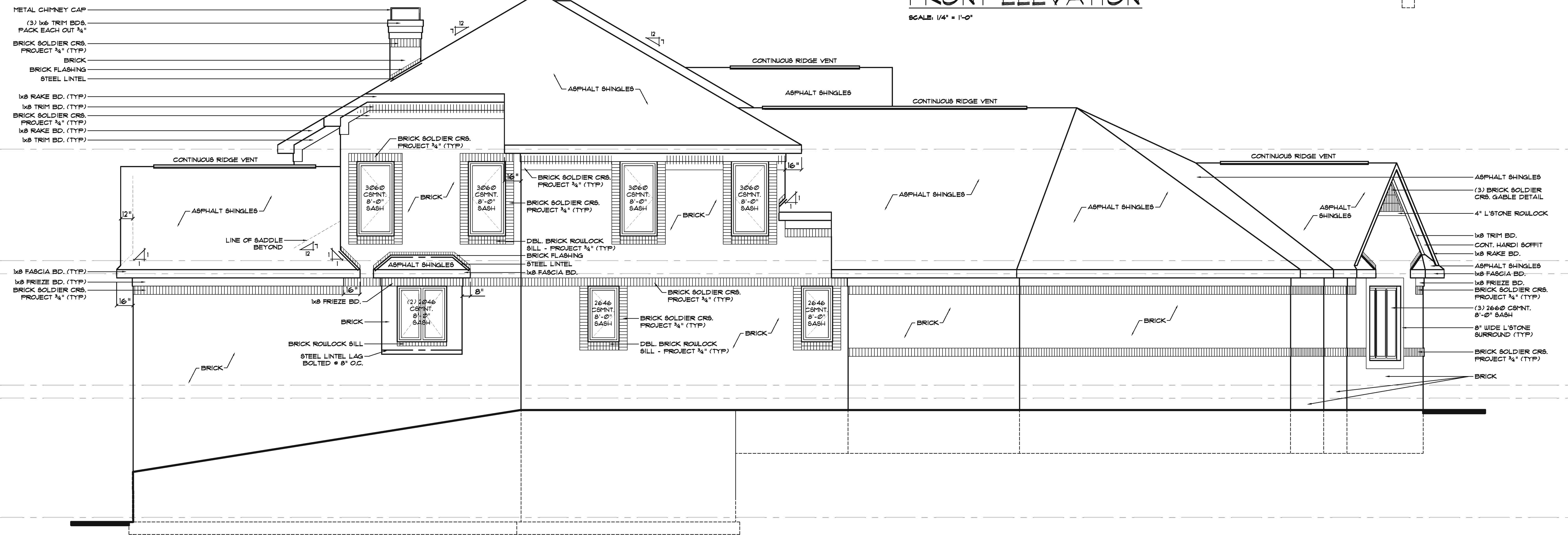


**NOTE:**  
ALL EXTERIOR TRIM BDB.  
TO BE JAMES HARDI FIB.  
CEMENT OR SIMILAR

**NOTE:**  
RAISE HEEL ON TRUSSES 4"  
TO ALLOW FOR 8'-0" SASH  
HEIGHT

**FRONT ELEVATION**

SCALE: 1/4" = 1'-0"



**LEFT ELEVATION**

SCALE: 1/4" = 1'-0"

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LOT #: 103  
SANDHU RESIDENCE  
CUSTOM ELEVATION  
GARAGE LEFT

CONST. SET ISSUED: 5/16/12  
PERMIT SET ISSUED: 6/20/12  
REV. PERMIT SET ISSUED: 9/2/12  
REV. PERMIT SET ISSUED: 1/22/13

Sheet Name:  
**ELEVATIONS**

Sheet No:  
**5 OF 7**

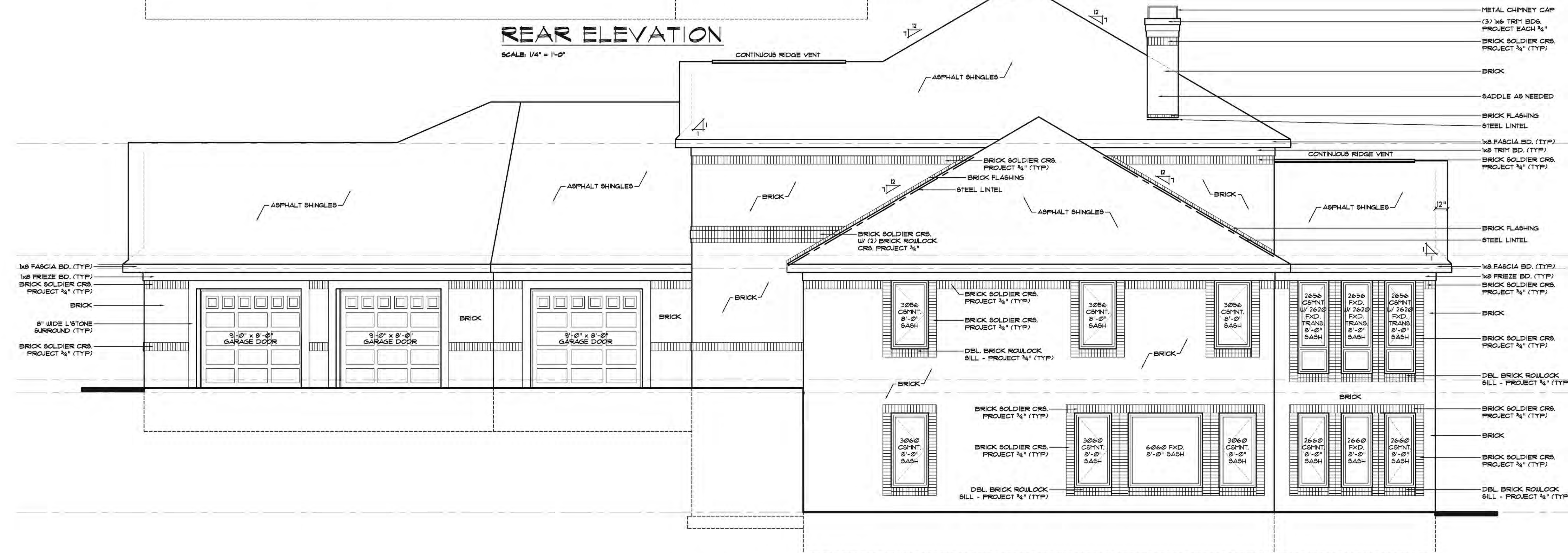


**REAR ELEVATION**

SCALE: 1/4" = 1'-0"

**NOTE:**  
ALL EXTERIOR TRIM BDB.  
TO BE JAMES HARDI FIB.  
CEMENT OR SIMILAR

**NOTE:**  
RAISE HEEL ON TRUSSES 4"  
TO ALLOW FOR 8'-0" SASH  
HEIGHT



**RIGHT ELEVATION**

SCALE: 1/4" = 1'-0"

**SINGH**  
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LOT #: 103  
SANDHU RESIDENCE  
CUSTOM ELEVATION  
GARAGE LEFT

CONST. SET ISSUED: 5/16/12  
PERMIT SET ISSUED: 6/20/12  
REV. PERMIT SET ISSUED: 9/27/12  
REV. PERMIT SET ISSUED: 2/22/13

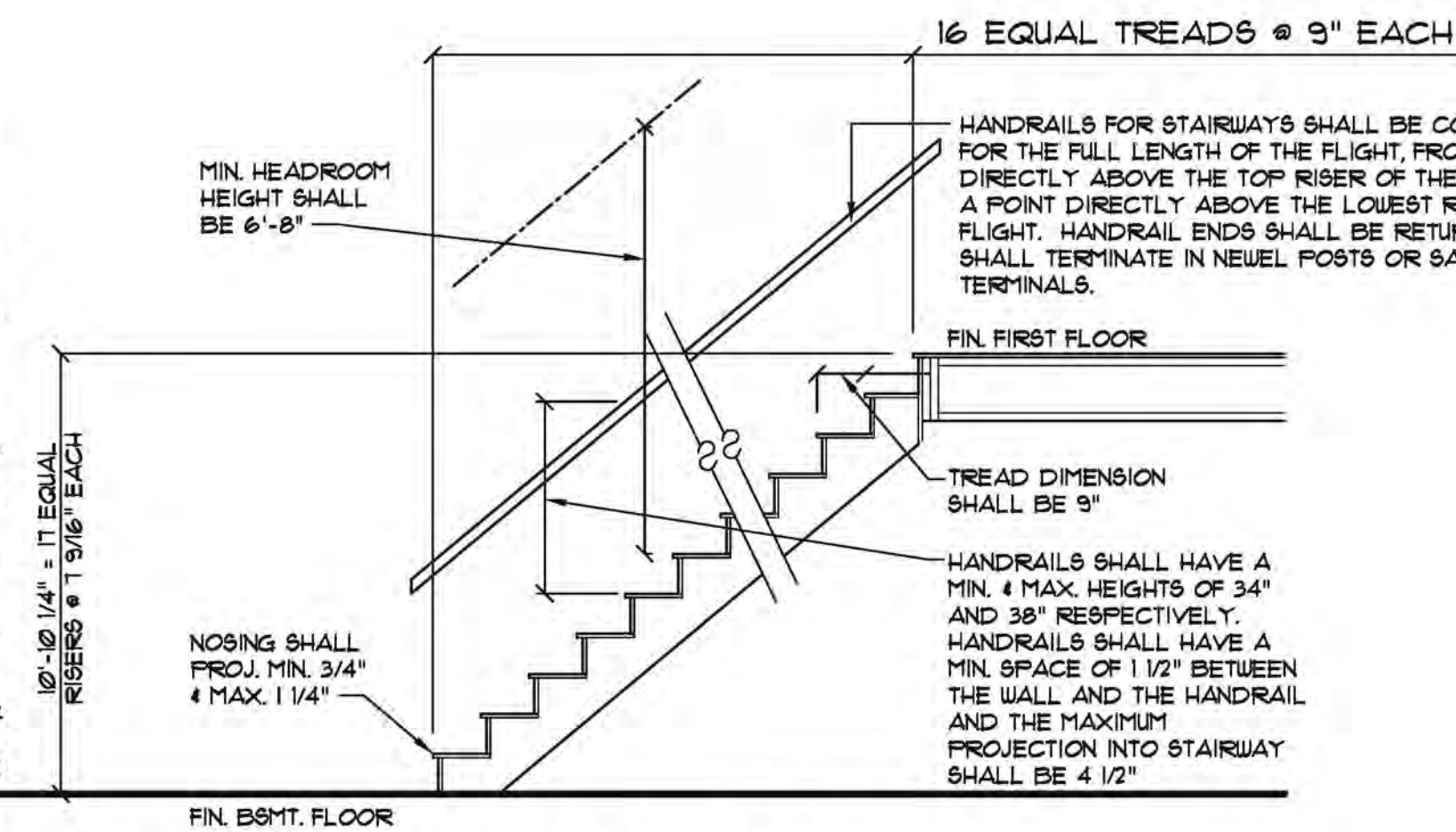
Sheet Name:  
**ELEVATIONS**

Sheet No:  
**6 OF 7**

**HANDRAILS**

**TYPE I, HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1 1/4 INCHES AND NOT GREATER THAN 2 INCHES. IF THE HANDRAIL IS NOT CIRCULAR IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4 INCHES AND NOT GREATER THAN 6 1/4 INCHES WITH A MAXIMUM CROSS SECTION OF DIMENSION OF 2 1/4 INCHES.**

**TYPE II, HANDRAILS WITH A PERIMETER GREATER THAN 6 1/4 INCHES SHALL PROVIDE A GRASPABLE FINGER RECESS AREA ON BOTH SIDES OF THE PROFILE. THE FINGER RECESS SHALL BEGIN WITHIN A DISTANCE OF 3/4 INCH MEASURED VERTICALLY FROM THE TALLEST PORTION OF THE PROFILE AND ACHIEVE A DEPTH OF AT LEAST 5/16 INCH WITHIN 1/8 INCH BELOW THE WIDEST PORTION OF THE PROFILE. THIS REQUIRED DEPTH SHALL CONTINUE FOR AT LEAST 3/8 INCH TO A LEVEL THAT IS NOT LESS THAN 1 3/4 INCHES BELOW THE TALLEST PORTION OF THE PROFILE. THE MINIMUM WIDTH OF THE HANDRAIL ABOVE THE RECESS SHALL BE 1 1/4 INCHES TO A MAXIMUM OF 2 3/4 INCHES. EDGES SHALL HAVE A MINIMUM RADIUS OF ØØ1 INCHES.**



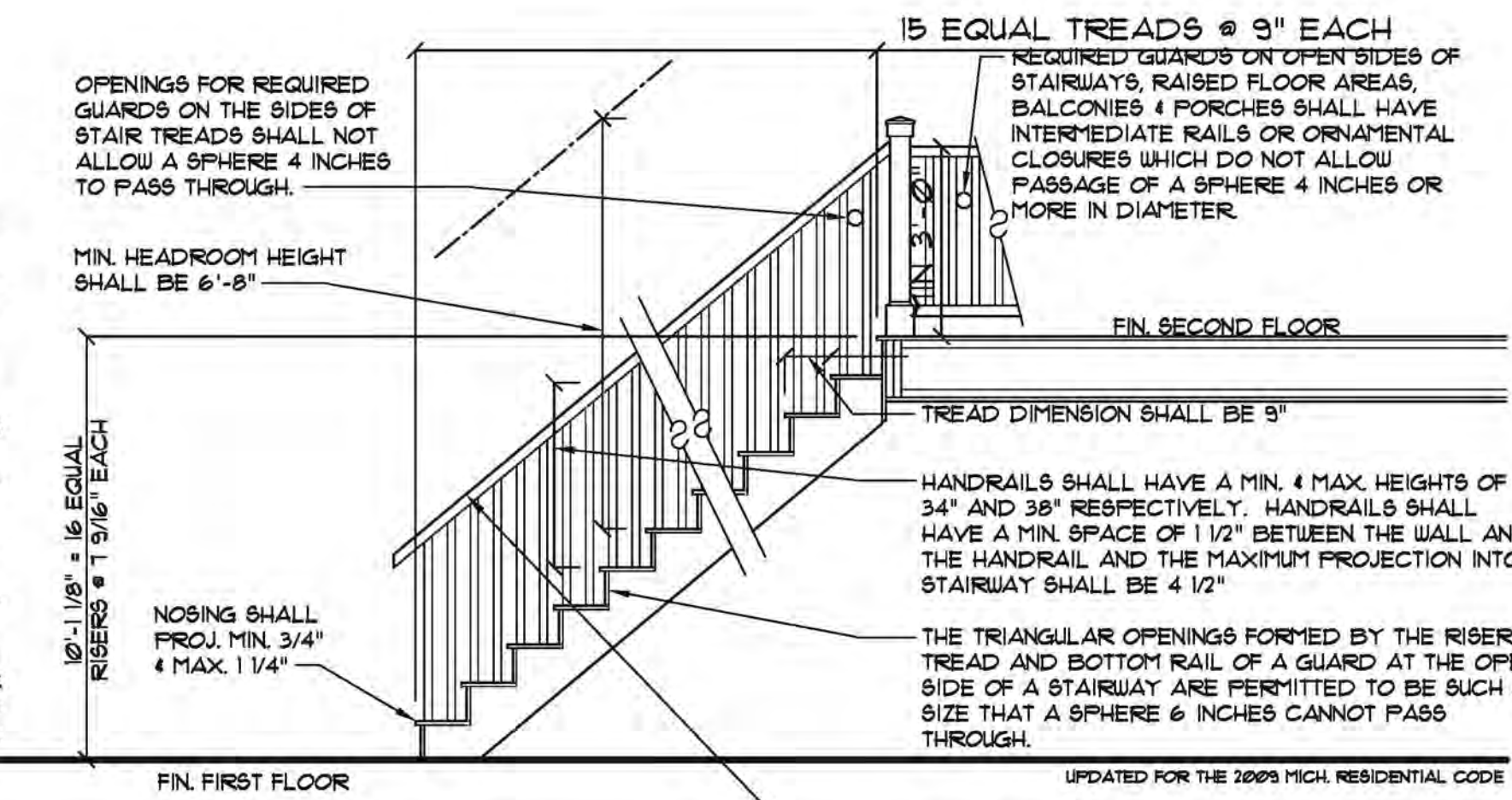
**BASEMENT TO FIRST FLOOR STAIR SECTION**

SCALE: 3/8" = 1'-0"

**HANDRAILS**

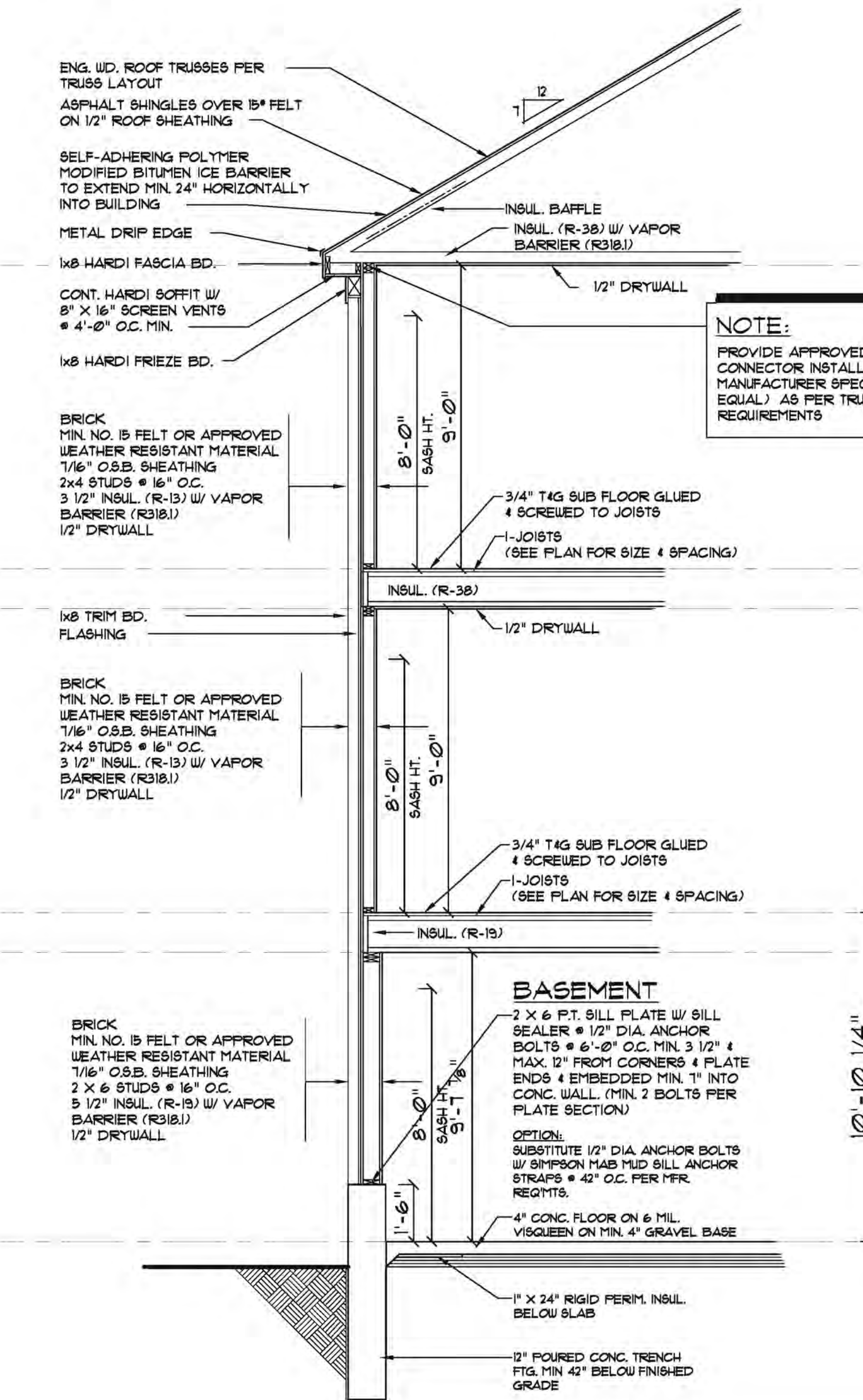
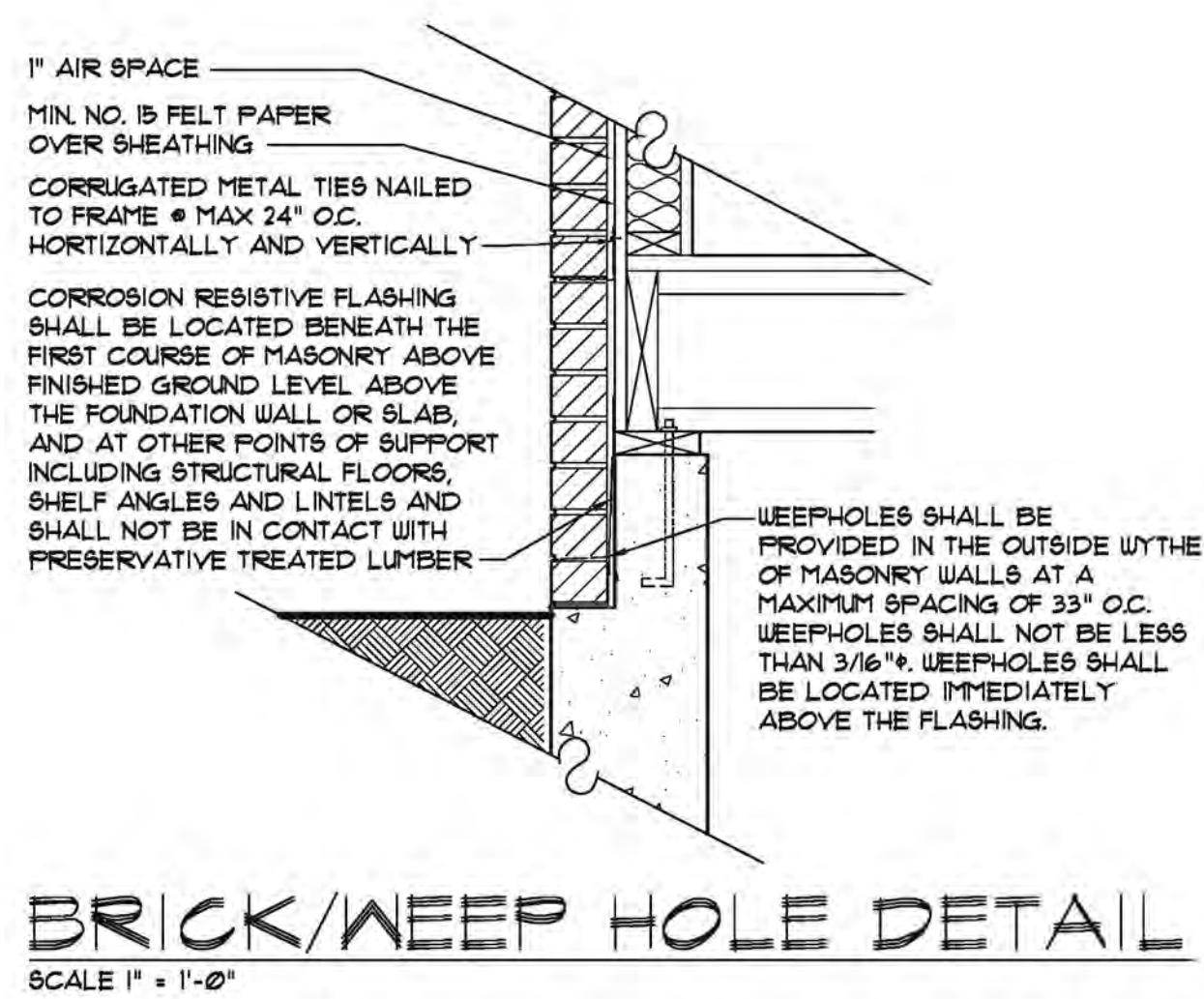
**TYPE I, HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1 1/4 INCHES AND NOT GREATER THAN 2 INCHES. IF THE HANDRAIL IS NOT CIRCULAR IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4 INCHES AND NOT GREATER THAN 6 1/4 INCHES WITH A MAXIMUM CROSS SECTION OF DIMENSION OF 2 1/4 INCHES.**

**TYPE II, HANDRAILS WITH A PERIMETER GREATER THAN 6 1/4 INCHES SHALL PROVIDE A GRASPABLE FINGER RECESS AREA ON BOTH SIDES OF THE PROFILE. THE FINGER RECESS SHALL BEGIN WITHIN A DISTANCE OF 3/4 INCH MEASURED VERTICALLY FROM THE TALLEST PORTION OF THE PROFILE AND ACHIEVE A DEPTH OF AT LEAST 5/16 INCH WITHIN 1/8 INCH BELOW THE WIDEST PORTION OF THE PROFILE. THIS REQUIRED DEPTH SHALL CONTINUE FOR AT LEAST 3/8 INCH TO A LEVEL THAT IS NOT LESS THAN 1 3/4 INCHES BELOW THE TALLEST PORTION OF THE PROFILE. THE MINIMUM WIDTH OF THE HANDRAIL ABOVE THE RECESS SHALL BE 1 1/4 INCHES TO A MAXIMUM OF 2 3/4 INCHES. EDGES SHALL HAVE A MINIMUM RADIUS OF ØØ1 INCHES.**



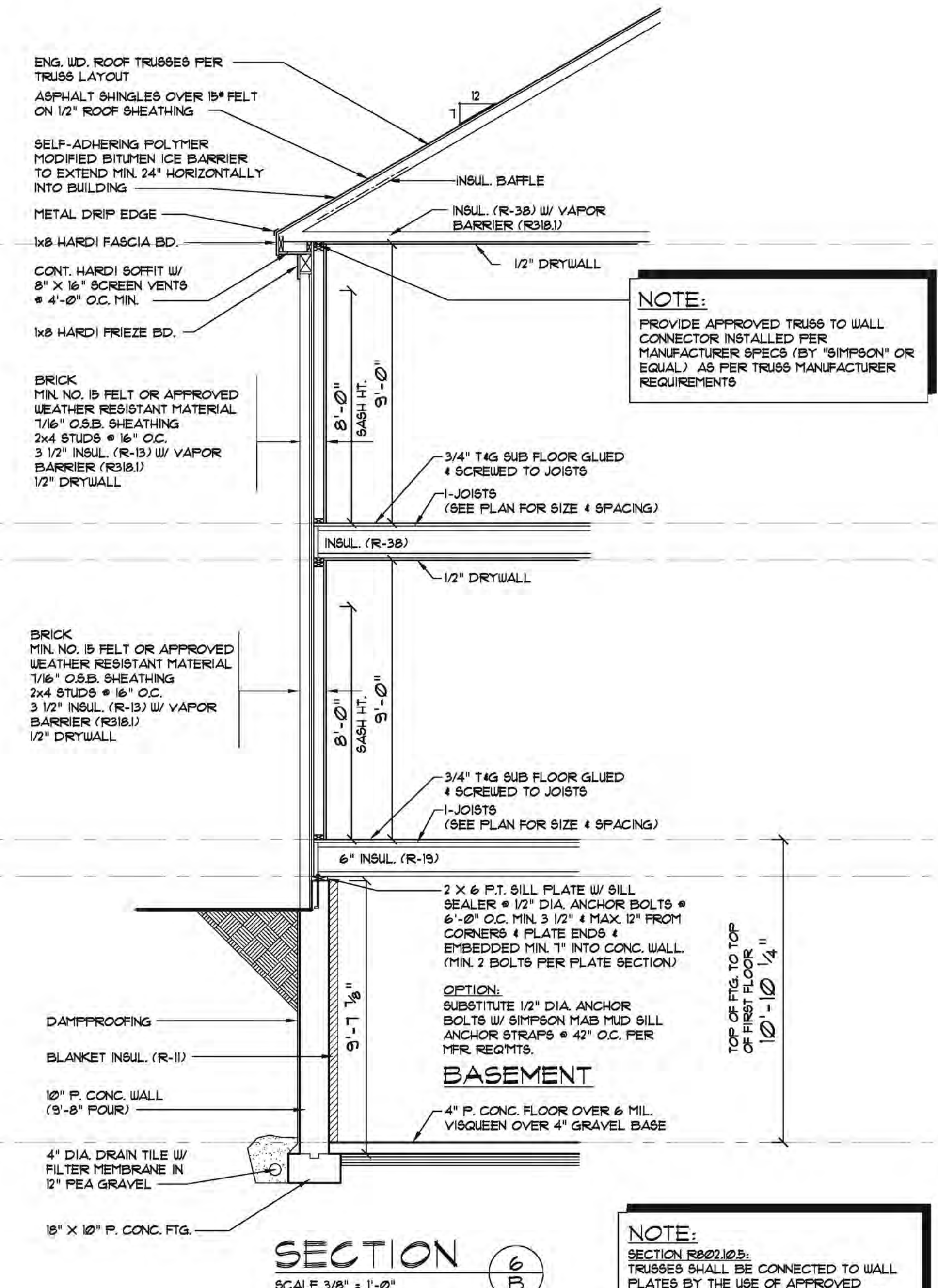
**FIRST FLOOR TO SECOND FLOOR STAIR SECTION**

SCALE: 3/8" = 1'-0"



**NOTE:**

SECTION R202.10.5: TRUSSES SHALL BE CONNECTED TO WALL PLATES BY THE USE OF APPROVED CONNECTORS HAVING A RESISTANCE TO UPLIFT OF NOT LESS THAN 175# AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS (SEE SECTIONS FOR FURTHER NOTATIONS)



**NOTE:**

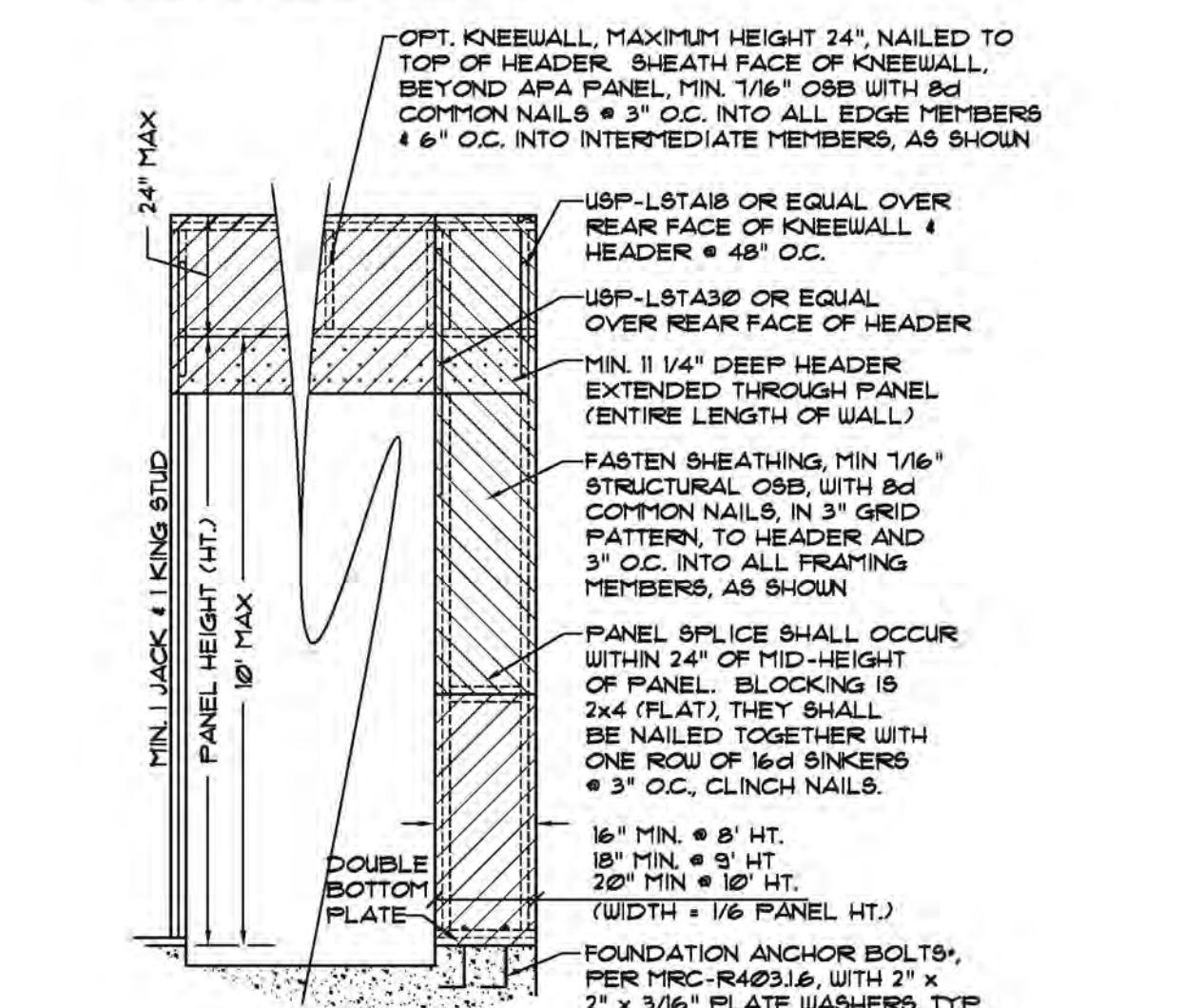
SECTION R202.10.5: TRUSSES SHALL BE CONNECTED TO WALL PLATES BY THE USE OF APPROVED CONNECTORS HAVING A RESISTANCE TO UPLIFT OF NOT LESS THAN 175# AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS (SEE SECTIONS FOR FURTHER NOTATIONS)

**NOTE:**

**ABBREVIATIONS**

1. MRC = MICHIGAN RESIDENTIAL CODE

2. ADAPTED FROM APA T2003-48



\* ALLOWABLE SUBSTITUTIONS: SIMPSON 5/8" #5ET W/ 5" MIN. EMBEDMENT DEPTH OR, HILTI KB 11 5/8-6" w/ 3 1/2" MIN. EMBEDMENT DEPTH.

**BRACED GARAGE WALL DETAIL**

SCALE: 3/16" = 1'-0"

**SINGH**

A TRADITION OF EXCELLENCE

1725 ORCHARD LAKE ROAD SUITE 200  
WEST BLOOMFIELD, MI 48221-2608  
PHONE: (248) 885-1000 FAX: (248) 885-1000

**SINGH HOMES BUILDING CO., L.L.C.**

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Job No: **007-109**

SUBDIVISION: WILLOWBROOK III  
LOT #: 103  
SANDHU RESIDENCE  
CUSTOM ELEVATION  
GARAGE LEFT

CONST. SET ISSUED: 5/16/12  
PERMIT SET ISSUED: 6/20/12  
REV. PERMIT SET ISSUED: 9/27/12  
REV. PERMIT SET ISSUED: 2/22/13

Sheet No: \_\_\_\_\_

**SECTIONS**

Sheet No: **7 OF 7**