



YURDAER ARCHITECTURE 2012 W. 47th TERR.

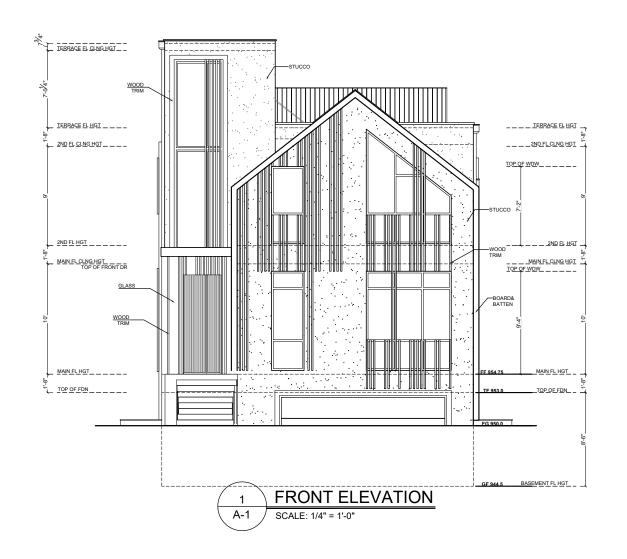


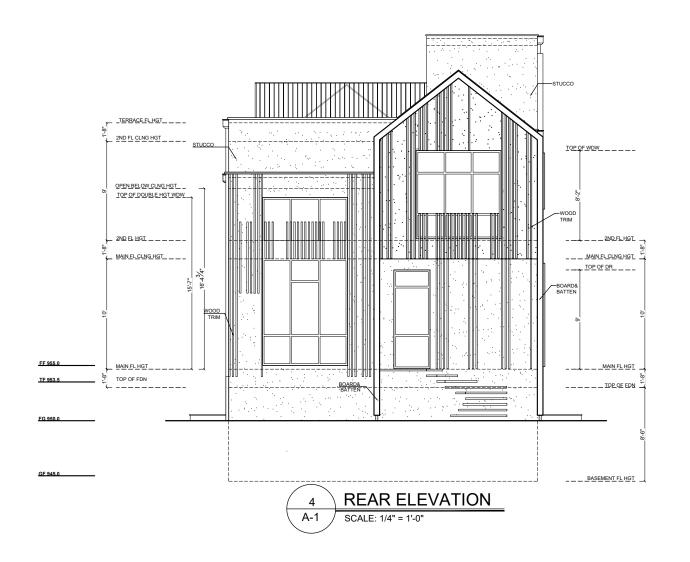
COMPLETE DRAFTING & DESIGN

Drawn by:

517.8 sqf UNFIN. BASEMENT 1070.6 sqf FINISHED BASEMENT 99.2 sqf SITE PLAN
A-0 FIRST FLOOR 1800 sqf SECOND FLOOR 1584.7 sqf ABOVE GRADE LIVING 3384.7 sqf TOTAL LIVING 3483.9 sqf

GARAGE





YURDAER ARCHITECTURE 2012 W. 47th TERR.

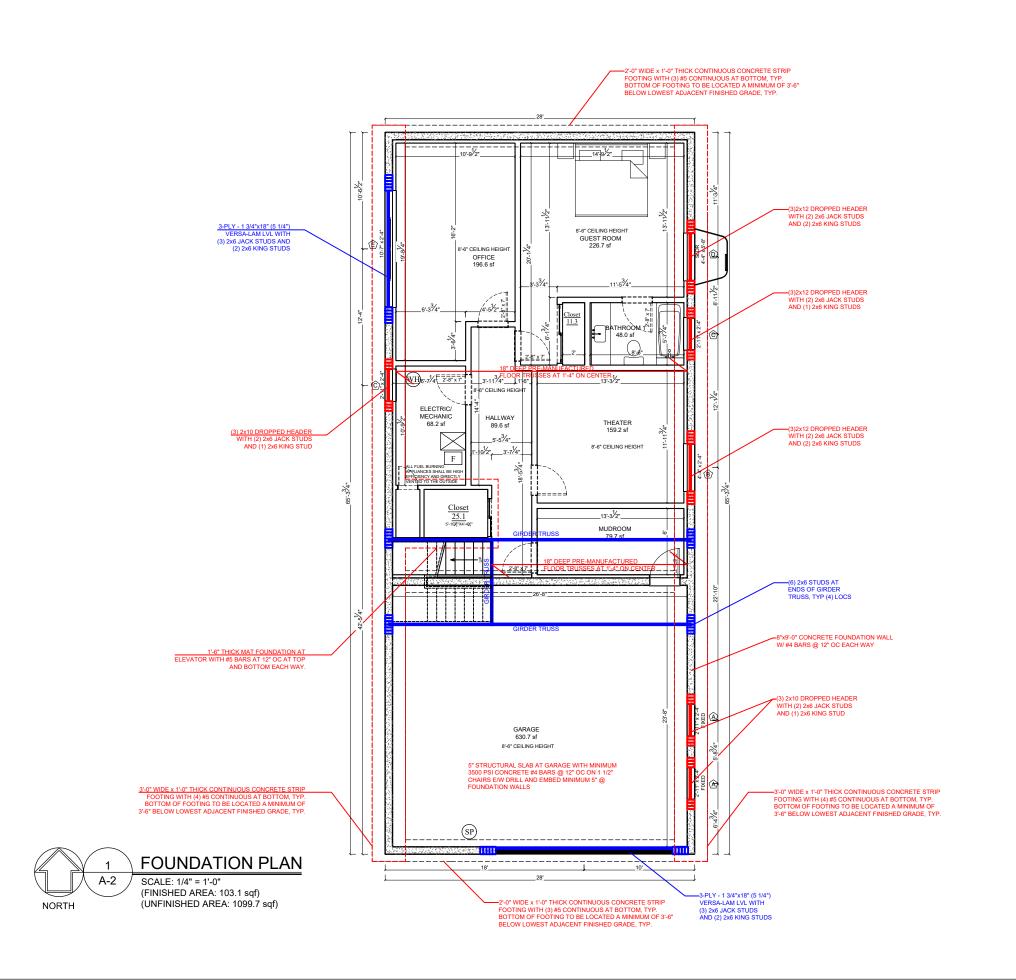
COMPLETE DRAFTING & DESIGN

Orawn by:

630.7 sqf BASEMENT 1056.7 sqf 1800 sqf **ELEVATIONS** FIRST FLOOR **A-1** SECOND FLOOR 1584.7 sqf ABOVE GRADE LIVING 3384.7 sqf TOTAL LIVING 4441.4 sqf

GARAGE





YURDAER ARCHITECTURE 2012 W. 47th TERR.



COMPLETE DRAFTING & DESIGN

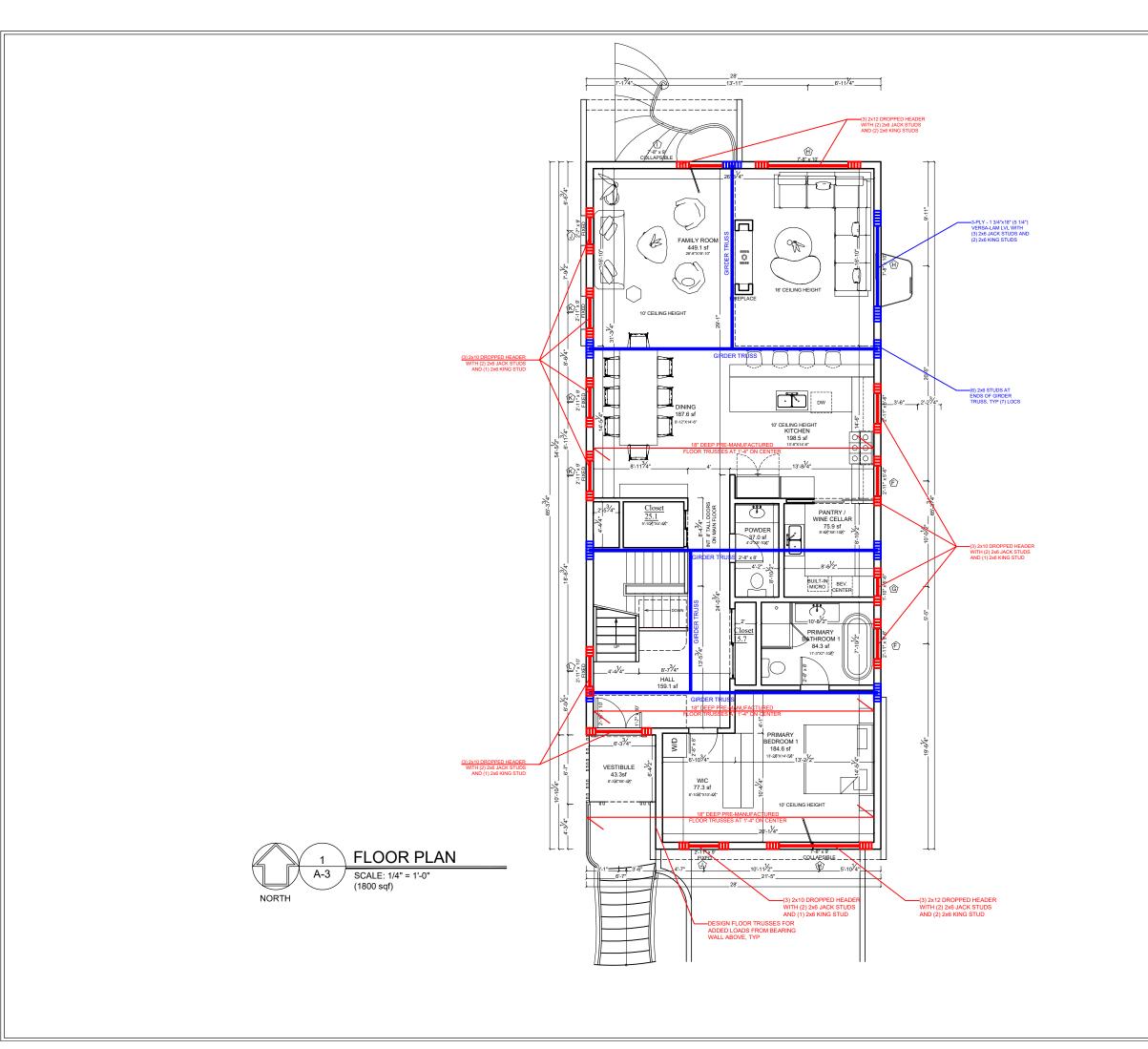
Project #:

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FOUNDATION PLAN A-2



YURDAER ARCHITECTURE 2012 W. 47th TERR.

COMPLETE DRAFTING & DESIGN

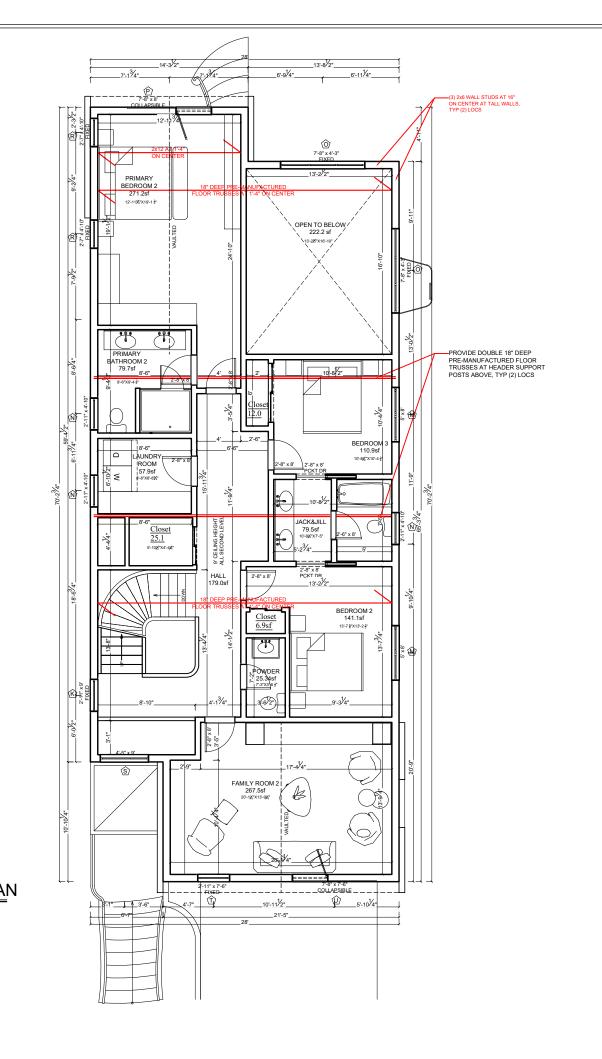
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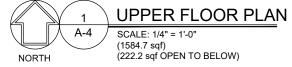
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FLOOR PLAN
A-3





YURDAER ARCHITECTURE 2012 W. 47th TERR.

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COMPLETE DRAFTING & DESIGN

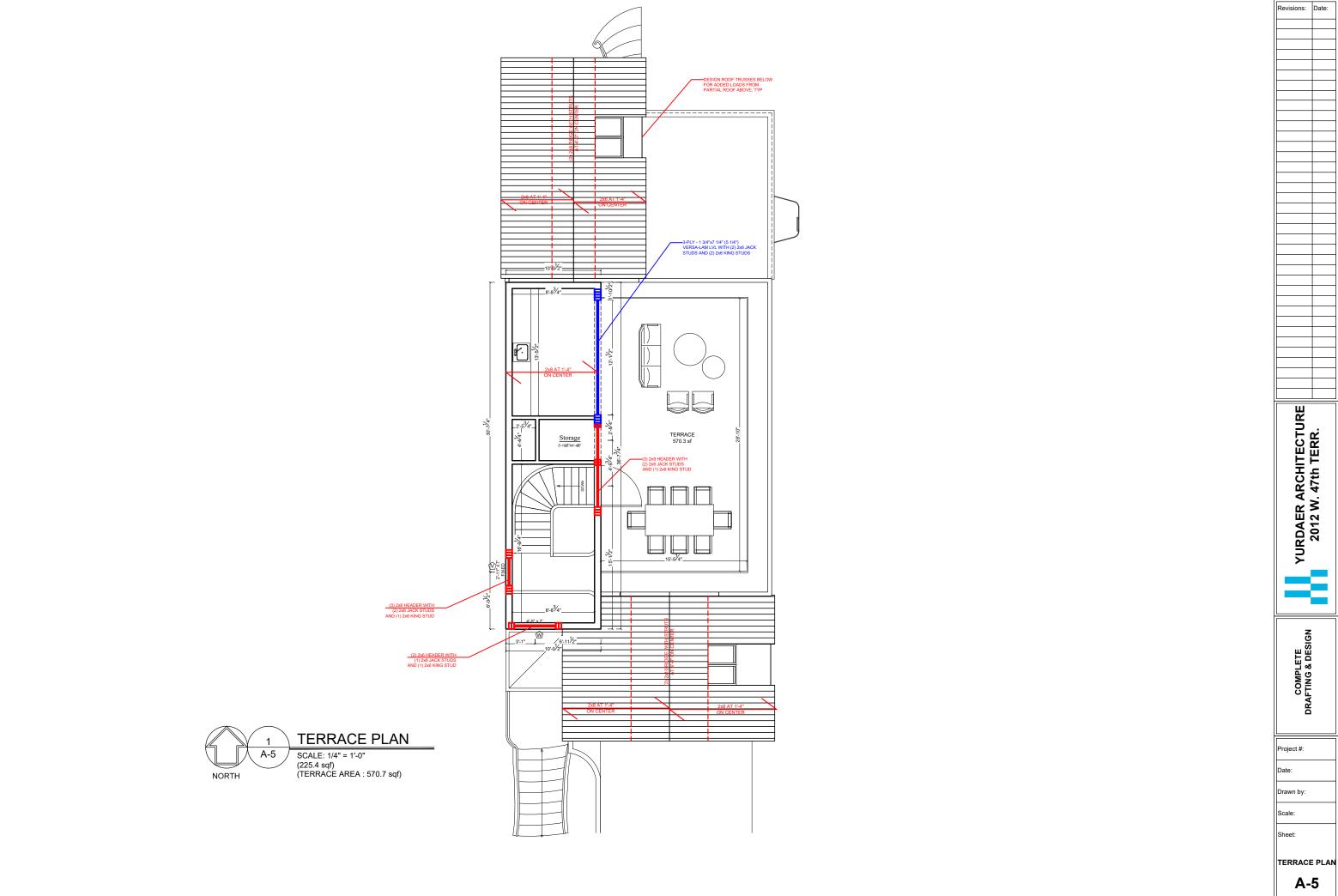
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UPPER FLOOR
PLAN
A-4







COMPLETE DRAFTING & DESIGN

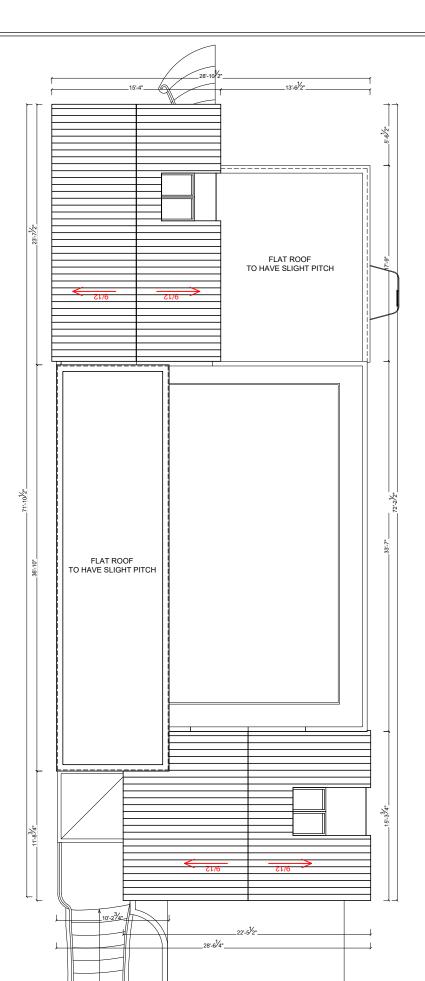
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Drawn by:

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ROOF PLAN

A-6



**ROOF PLAN** 

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

## NOTES

ROOF DESIGNED FOR LIGHT ROOF COVERING 30PSF TOTAL LOAD [10PSF DL, 20 PSF LL (SL)]

RAFTERS (DOUG-FIR, OR EQUAL): SEE SPAN CHARTS BELOW

### CODE MINIMUM

RAFTERS	SPACING	MAX HORIZANTAL CLEARSPAN
#2-2x6	@24" O.C.	11'-11"
#2-2x6	@16" O.C.	14'-1"
#2-2x8	@24" O.C.	15'-1"
#2-2x8	@16" O.C.	18'-5"
#2-2x10	@24" O.C.	18'-5"
#2-2x10	@16" O.C.	22'-6"

NOTE: CODE MINIMUM L/240 DEFLECTION

### **GRATER THAN CODE**

RAFTERS	SPACING	MAX HORIZANTAL CLEARSPAN
#2-2x6	@24" O.C.	8'-6"
#2-2x6	@16" O.C.	9'-9"
#2-2x8	@24" O.C.	11'-3"
#2-2x8	@16" O.C.	12'-9"
#2-2x10	@24" O.C.	14'-3"
#2-2x10	@16" O.C.	16'-3"

DEFLECTION = L/360 LIVE LOAD, L/240 TOTAL LOAD VAULTS TO BE 2x10 DEPTH

ALL RIDGES, HIPS AND VALLEYS NOT MARKED SHALL BE (1) NOMINAL SIZE LARGER THAN THE INTERSECTING RAFTERS

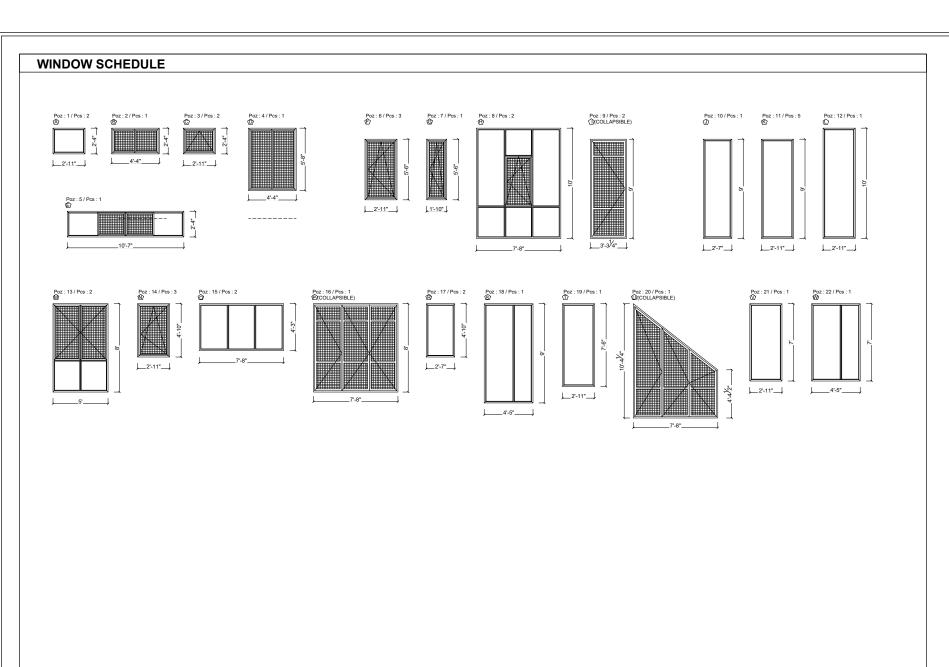
PURLINS ARE 2x8 MIN.
PURLIN STRUTS ARE AT 4'-0" O.C.
PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN
A 45 DEGREE ANGLE WITH THE HORIZONTAL
ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED
LENGHT OF 8'-0"
PURLINS STRUTS SHALL BE CONSTRUCTED IN A "T"
CONFIGURATION AND PER THE FOLLOWING CHART

PURLIN STRUT	MAX PURLIN STRUT LENGHT
(2) 2x4	8'-0"
(1) 2x4 & (1) 2x6	12'-0"
(1) 2x6 & (1) 2x8	20'-0"
(2) 2x6 & (1) 2x8	30'-0"
CONSULT ARCH./ENGR.	>30'-0"

-EACH END OF STRUT SHALL BE FASTENED WITH MIN. (3) 8d OR (2) 16d NAILS
-RIDGE BRACES ARE SAME AS PURLIN BRACES;
SPACING, SIZE, CONFIGURATION, AND INSTALLATION (SEE PURLIN BRACE NOTE ABOVE)
-HIP AND VALLEY BRACES ARE THE SAME AS PURLINS
SIZE, CONFIGURATION, AND INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)

SEE DETAILS 1, 5, 6, 7, 11, 12, 13, & 14 ON S-1.2 FOR ROOF FRAMING AND INSULATION OPTIONS

SEE DETAIL 12/S-1.2 FOR RAFTER TIE CONNECTION FOR CLG JOISTS PERPENDICULAR TO HIP RAFTERS ALL RIDGES, HIPS, & VALLEYS SHALL BE FASTENED TO EXTERIOR WALLS, BEAMS, OR LOAD BEARING WALL TOP PLATE PER FRAME FASTENING SCHEDULE ON S-1.0, AND PER R802.11, ALL UPLIFT OVER 200# SHALL BE FASTENED AS SHOWN ON THIS PLAN SHEET ALL RAFTERS SHALL BE FASTENED TO TOP PLATE WITH (3) 10d COMMON NAILS



Revisions: Date:

YURDAER ARCHITECTURE 2012 W. 47th TERR.

COMPLETE DRAFTING & DESIGN

Project #:

Date:

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SCHEDULES &
TYPICAL
SECTION

A-7 ??

### MINIMUM SHEATHING REQUIREMENTS

BUILDING COMPONENT	MATERIAL
ROOF SHEATING	5/8" PLYWOOD
1001 SHEATING	1 x 4 #3 FURRING
FLOOR SHEATING	3/4" T&G YELLOW PINE PLYWOOD
WALL COVERING	1/2" GYPSUM SHEATING
CEILING COVERING	1/2" GYPSUM SHEATING
EXTERIOR WALL	15/32" APA RATED SHEATING
SHEATING	RATED PANEL SIDING, RATED
5.12/11110	16" O.C. 7/16" THICK

ALL SHEATHING MATERIALS TO BE APPLIED PERPENDICULAR TO JOISTS AND ENDS STAGGERED REFERED TO TABLE R602.3(1) ON S-1.1 FOR FASTENING SCHEDULE

## HIP/VALLEY ALLOWABLE SPAN TABLE

TYPF	MAX. UNSUPPORTED SPAN				
	2x8	2x10	2x12	1 3/4"x9 1/2" LVL	1 3/4"x11 7/8" LVL
HIP RAFTER	11'-3"	13'-3"	15'-2"	15'-8"	18'-2"
VALLEY RAFTER	8'-11"	10'-6"	12'-0"	13'-2"	15'-3"

## CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA: 1. IRC 2018. INTERNATIONAL RESIDENTIAL CODE

- ROOF SNOW LOAD = 20 PSF
- WIND SPEED = 90 MPH (110 MPH PER ASCE 7-16 FOR ENGINEERED DESIGN)
  TOPOGRAPHIC EFFECTS = NO
- SEISMIC DESIGN CATEGORY = A
- WEATHERING = SEVERE
- FROST LINE DEPTH = 36 INCHES TERMITE = MODERATE TO HEAVY

- TERMITE = MODERATE TO HEAVY
  DECAY = SLIGHT TO MODERATE
  WINTER DESIGN TEMPERATURE = SIX DEGREES FAHRENHEIT
  ICE BARRIER UNDERLAYMENT REQUIRED = YES
  FLOOR HAZARDS = LATEST ADOPTED FIRMAND FBFM DOCUMENTS
  AIR FREEZING INDEX = 1000
  MEAN ANNUAL TEMPERATURE = \$4.7 DEGREES FAHRENHEIT
  SHEAR WALLS ARE DESIGNED AND CONSTRUCTED USING ENGINEERED DESIGN PROVISIONS OF IRC 2018
  TION R301.1.3 AS CONVENTIONAL CONSTRUCTED USING ENGINEERED DESIGN PROVISIONS OF IRC 2018
  TION R301.1.3 AS CONVENTIONAL CONSTRUCTED USING ENGINEERED DESIGN PROVISIONS OF IRC 2018

- FOUNDATION CRITERIA AND PRESUMPTIVE LOAD BEARING VALUES:

  1. FOUNDATION DESIGN IS BASED ON REQUIREMENTS OF PRESUMPTIVE LOAD BEARING VALUES OF SOILS AS FOUNDATION DESIGN IS BASED ON REQUIREMENTS OF PRESUMPTIVE LOAD BEARING VALUES ALLOWED BY THE BUILDING CODE:
   ALLOWABLE BEARING PRESSURE (IBC 2018 TABLE 1806.2 AND IRC 2018 TABLE R401.4.1) = 1,500 PSF
- LATERAL BEARING PRESSURE (IBC 2018 TABLE 1806.2)= 150 PSF/FT COEFFICIENT OF SLIDING FRICTION (IBC 2018 TABLE 1806.2)= 0.25
- COHESION (IBC 2018 TABLE 1806.2)= 130 PCF
- EQUITINGS SHALL BEAR ON COMPACTED NATURAL MATERIAL AND/OR COMPACTED ENGINEERED FILL COMPACTED NATURAL MATERIAL AND/OR COMPACTED ENGINEERED FILL SHALL BE COMPACTED TO AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-698.

- PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-698.

  3. SITE PREPARATION (INCLUDING TREE CLEARING, GRUBBING, UNDOCUMENTED FILL REMOVAL, SOIL STABILIZATION, PROOFROCLING, UNDERCUTTING, OVEREXCAVATION AND FILL), GRADING (INCLUDING) SCARIFICATION, MOISTURE CONDITIONING, COMPACTION AND/OR RECOMPACTION), AND USE OF NONEXPANSIVE ENGINEERED FILL MATERIAL SHALL BE BY THE CONTRACTOR.

  4. SUPPORTING FLOORS SHALL BE PLACED PRIOR TO BACK FILLING AGAINST BASEMENT WALLS OR CONTRACTOR SHALL PROVIDE ADEQUATE BRACING TO SUPPORT AND STABILIZE WALLS UNTIL THE SUPPORTING MEMBERS ARE INSTALLED.

  5. DO NOT UNDERMINE EXISTING FOUNDATIONS WHILE INSTALLING NEW FOUNDATIONS ADJACENT TO EXISTING FOUNDATIONS.

  6. NO FOOTINGS OR SLABS SHALL BE PLACED ONTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICC. CONTRACTOR SHALL PROVIDED AND STABILIZE WALLS UNTIL THE SUPPORTING MEMBERS ARE PLUTY PROTECTED BY THE PERMANNENT BUILDINGS STRUCKED FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING CONCRETE UNTIL SUCH SUBGRADES ARE PULLY PROTECTED BY THE PERMANNENT BUILDING STRUCTURE OR PROPER DETH OF BURY.

  7. FROST MIGHT PENETRATE DEEPER THAN THE BOTTOM OF FOUNDATIONS DURING CONSTRUCTION DUE TO CONSTRUCTION ACTIVITIES, SEQUENCING, SNOW REMOVAL, ETC. IF CONSTRUCTION OCCURS DURING FREEZING TEMPERATURES, CONTRACTOR SHALL TAKE NECESSARY MEASURES SUCH AS BLANKETING, INSULATING, GROUND THAWNING, ETC. TO ENSURE THAT FROST DOES NOT PENETRATE BELOW THE BOTTOM OF FOUNDATIONS.

## 

TOP CHORD = 25 PSF LIVE LOAD .....

- ... ALL AREAS = 40 PSF (PER IRC 2018 TABLE R301.5) ROOF LIVE LOAD... SLOPED = 16 PSF (PER IRC 2018 TABLE R301.6)

## FRAME FASTENING SCHEDULE

BUILDING COMPONENT	FASTEN TO	FASTEN WITH			
	RIDGE/VALLEY/HIP	TOENAIL W/ (4) 16D, FACENAIL W/ (3) 16D			
	PLATE	TOENAIL W/ (3) 10D			
RAFTERS	LEDGER STRIPS SUPPORTING JOISTS OR RAFTERS	FACENAIL W/ (3) 16D			
	COLLAR TIE TO RAFTERS	FACENAIL W/ (3) 10D			
	TOP PLATE	TOENAIL W/ (3) 8D @ EACH END			
	WHERE CLG JST RUN PARALLEL TO RAFTERS FACENAIL TO RAFTERS W/(3) 10D MINIMUM				
CEILING JOISTS	LAPS OVER PARTITIONS	FACENAIL W/ (3) 10D			
	BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE	TOENAIL W/ (3) 8D			
	BUILT-UP BEAMS, 2" LUMBER LAYERS, FACENAIL OPPOSITE SIDES, (2) @ EACH END PLUS	10D @ 32" O.C. STAGGERED, TOP & BOTTOM, OPPOSITE SIDES			
BEAMS	BUILT-UP BEAMS OF ENGINEERED LUMBER, FACENAILOPPOSITE SIDES	(2) ROWS @ 12" O.C.			
	BUILT-UP HEADER, TWO-PIECES W/ A 1/2" SPACER	16D @ 16" O.C. ALONG EDGES			
	BUILT-UP HEADER, TWO-PIECES W/ NO 1/2" SPACER	3" x 0.131" NAILS @ 12" O.C. ALONG EDGE			
	BEARING	TOENAIL W/ (2) 18D @ EACH END			
	RIM JOIST TO SILL OR TOP PLATE	TOENAIL W/ 8D COMMON OR 10D BOX @ 6" O.C.			
	JOIST TO SILL OR GIRDER	TOENAIL W/ (3) 8D			
	JOIST TO RIM JOIST	FACENAIL W/ (3) 16D			
	BRIDGING TO JOIST	TOENAIL W/ (2) 8D			
FLOOR JOISTS	I-JOIST TO BEARING PLATE	TOENAIL W/ (2) 8D - ONE INTO EACH SID AT LEAST 1 1/2" FROM THE END			
	RIM JOIST TO I-JOIST	FACENAIL W/ (2) 10D BOX - ONE INTO EACH FLANGE			
	SOLE PLATE TO LSL RIM BOARD	16D BOX @12" O.C.			
	SINGLE JOIST HANGERS*	10D FACENAILS AND TOENAILS			
	DOUBLE JOIST HANGERS*	16D FACENAILS AND TOENAILS			
	TOP AND SOLE PLATE TO STUD	END NAIL W/ (2) 16D			
	STUD TO SOLE AND TOP PLATE	TOENAIL W/ (4) 8D			
	DOUBLE TOP PLATES	FACENAIL W/ 16D @ 16" O.C.			
	DOUBLE TOP PLATE LAP SPLICE	FACENAIL W/ (8) 16D			
	TOP PLATE LAPS AND INTERSECTIONS	FACENAIL W/ (2) 16D			
	DOUBLE STUDS	FACENAIL W/ 16D @ 24" O.C.			
	BUILT-UP CORNER STUDS	FACENAIL W/ 16D - 2 ROWS @ 24" O.C.			
	STEEL "X" BRACING	FACENAIL W/ (2) 16D IN EACH TOP AND BOTTOM PLATE AND (1) 8D PER STUD			
	SOLE PLATE TO JOIST OR BLOCKING	FACENAIL W/ 16D @ 16" O.C.			
WALLS	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PERPENDICULAR TO FRAMING	FACENAIL W/ (3) 16D @ 16" O.C. ALONG BRACED WALL PANEL			
	TOP PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PERPENDICULAR TO FRAMING	TOENAIL W/ 8D @ 6" O.C. ALONG BRACED WALL PANEL			
	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PARALLEL TO FRAMING, BLOCKING @ 16" O.C.	FACENAIL W/ (3) 16D @ 16" O.C. ALONG BRACED WALL PANEL AND AT EACH BLOC			
	TOP PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PARALLEL TO FRAMING, BLOCKING @ 16" O.C.	TOENAIL W/ 8D @ 6" O.C. ALONG BRACEI WALL PANEL AND AT EACH BLOCK			
	NON-STRUCT. SIDING OVER STRUCT. SHEATHING	(1) 6D BOX IN EACH STUD			
	FIBER -CEMENT PLANK SIDING	(1) 6D GALVANIZED IN EACH STUD			
	WINDOW INSTALLATION NAILING	1 3/4" - 2" ROOFING NAILS @ 12" O.C. MAX			

SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.

COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE DOTTOM FLANGE OF THE BEAM. FOR A BEARING PLATE, FOUR HOLES SHALL BE ORILLED IN THE BOTTOM FLANGE OF THE STEEL BEAM TO MATCH THE HOLE PATTERN OF THE PLATE. 1/2" x 2" BOLTS SHOULD THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY BE WELDED TO THE STEEL BEAM IN ACCORDANCE WITH AWS D1.1-92 AS AN ALTERNATIVE, AND WOULD NEED TO BE INSPECTED BY AN AWSCERTIFIED INSPECTED.

### **DUCT SEALING METHOD, PER 2018 IRC W1103.3.2**

- M103.22 (R403.22) SEALING (MANDATORY) DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1601.4.1 OF THIS CODE. EXCEPTIONS:

  1. AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT SEALS.

  2. WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE, THREE SCREWS OR RIVETS SHALL BE EQUALLY SPACED ON THE EXPOSED PORTION OF THE JOINT SO AS TO PREVENT A HINGE EFFECT.

  3. CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURE LESS THAN 2 INCHES OF WATER COLUMN (500 Pa) PRESSURE CLASSIFICATION SHALL NOT REQUIRE ADDITIONAL CLOSURE SYSTEMS.

  DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING:

  1. POST CONSTRUCTION TEST: TOTAL LEAKAGE SHALL NOT BE LESS THAN OR EQUAL TO 4 CFM (113.3 L/MIN) PER 100FT2 (9.29m2) OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. (25 Pa) ACROSS THE ENTIRE SYSTEM. Pa) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS
- ROUGH-IN TEST: TOTAL AIR LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM (113.3 L/MIN) PER 100FT2 (9.29m2) OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. (25 Pa) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HANDLER IS NOT INSTALLED AT THE TIME OF THE TEST, TOTAL AIR LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CFM (85 L/MIN) PER 100FT2 (9.29m2) OF CONDITIONED FLOOR

EXCEPTION: THE TOTAL LEAKAGE IS NOT REQUIRED FOR DUCTS AND AIR HANDLERS LOCATED ENTIRELY WITHIN

GENERAL NOTES:

1. PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE, ICC AS ADOPTED BY AHJ, AND ALL AMENDMENTS AS ADOPTED BY THE AHJ. IF ANY CHANGES OR DEVIATIONS ARE MADE FROM THESE PLANS THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITY AND THE ENGINEER TO EVALUATE THE CHANGES AND

MAKE ANY APPROPRIATE MODIFICATIONS TO THE PLANS.
2. WHERE DISCREPANCIES EXIST BETWEEN THE STANDARD COMMENTS, NOTES FOR THE DESIGN PROFESSIONAL OR THE CODE, THE MOST RESTRICTIVE SHALL APPLY.

- FOUNDATION NOTES:

  1. THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION RESIDENTIAL FOUNDATION STANDARD IN LIEU OF ENGINEERING REPORT REQUIREMENTS BASED ON ACTUAL SITE CONDITIONS.

  2. FOUNDATION WALLS SHALL BE DAMP-PROOFED PER IRC SECTION R406.

  3. PROVIDE A MINIMUM 2" PERFORATED DRAIN AROUND USABLE SPACE BELOW GRADE OR OTHER EQUIVALENT MATERIALS PER IRC SECTION 405.1. THE PIPE SHALL BE COVERED WITH NOT LESS THAN 8" OF WASHED GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT TO THE EXTERIOR BELOW THE FLOOR LEVEL OR TERMINATE IN A MINIMUM 20 GALLON SUMP PIT.

  4. FOUNDATION DESIGN SHALL BE BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF.

  5. FOOTINGS SHALL BE A MINIMUM OF 16" WIDE AND 8" DEEP WITH (2) #4 BARS CONTINUOUS, LOCATED A MINIMUM OF 3" CLEAR FROM THE BOTTOM. FOOTINGS SHALL BE A MINIMUM OF 3" SELOW GRADE FOR FROST PROTECTION.

  6. COLUMN PADS SHALL BE A MINIMUM OF 24"X24"X8" WITH (3) #4 BARS EACH WAY.

  7. FOUNDATION WALLS SHALL BE A MINIMUM OF 3" THICK WITH MINIMUM #4 BARS @ 24" O.C. HORIZONTAL AND VERTICAL WITH THE TOP BAR WITHIN 8" OF THE TOP OF THE WALL UNLESS NOTED OTHERWISE ON PLAN.

  8. REINFORCEMENT SHALL LAP A MINIMUM OF 24".

- REINFORCEMENT SHALL LAP A MINIMUM OF 24".
  INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB.
- INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE BY A SEPARATION
- OF 1/2.

  11. CONCRETE FLOOR SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK OVER A MINIMUM 4" BASE OF SAND, GRAVEL, OR CRUSHED STONE, BASEMENT SLABS SHALL HAVE A MINIMUM 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" AND SHALL BE PLACED BETWEEN THE FLOOR SLAB
- AND THE BASE COURSE.
  12. FLOOR SLABS SUPPORTED BY FILL CONSISTING OF MORE THAN 24" OF GRANULAR FILL OR 8" OF EARTH SHALL BE REINFORCED PER A SEPARATE ENGINEERING DESIGN.

- 12. FLOOR SLABS SUPPORTED BY FILL CONSISTING OF MORE THAN 24" OF GRANULAR FILL OR 8" OF EARTH SHALL BE REINFORCED PER A SEPARATE ENGINEERING DESIGN
  13. BASEMENT FOUNDATION SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH MINIMUM 2"D AUGHORED AND THE FOUNDATION BY A SECONDER THE AND SPACED NOT MORE THAN 3" ON CENTER AND WITHIN 12" OF EACH END OF THE PLATE SECTION PER IRC SECTION R403.1.6.
  14. FOUNDATION WINDOW WELLS FOR SECONDARY MEANS OF EGRESS SHALL PROVIDE A MINIMUM 3"A"S HORIZONTAL AREA.
  15. THE BASE OF ALL FOOTING EXCAVATIONS SHOULD BE FREE OF ALL MATER AND LOOSE MATERIAL PRIOR TO PLACING CONCRETE. CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATINGS OF THAT EXCESSIVE DRYING OR DISTURBANCE OF BEARING MATERIALS DOES NOT OCCUR. SHOULD THE MATERIALS AT BEARING LEVEL BECOME EXCESSIVELY DRY OR SATURATED, WE RECOMMEND THAT THE AFFECTED MOVED PRIOR TO PLACING CONCRETE.
  16. IT IS RECOMMENDED THAT ALL FOOTING EXCAVATIONS BE EVALUATED AND TESTED BY A GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACEMENT OF FOUNDATION CONCRETE. UNSUITABLE AREAS IDENTIFIED AT THIS TIME SHOULD BE CORRECTED. CORRECTIVE PROCEDURES WOULD BE DEPENDENT UPON CONDITIONS ENCOUNTERED AND MAY INCLUDE THE DEEPENING OF FOUNDATION ELEMENTS, OR THE UNDERCUTTING OF UNSUITABLE MATERIALS AND REPLACEMENT WITH ENGINEERE IMMEDIATELY PRIOR TO PLACEMENT OF

- STAIRWAY NOTES:

  STAIRWAYS SHALL PROVIDE A MAXIMUM 7 3/4" RISE AND A MINIMUM 10" RUN.
- 2. PROVIDE MINIMUM 36" GUARDRAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES, AND BALCONIES. PROVIDE MINIMUM 34" GUARDRAILS ON THE OPEN SIDES OF STAIRWAYS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW. GUARDRAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A 4" DIAMETER SPHERE.
- T DO NOT ALLOW PASSAGE OF A 4" DIAMETER SPHERE.

  EACH STAIRWAY OF 3 OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.

  HANDRAILS SHALL HAVE A CIRCULAR CROSS-SECTION OF 1 1/4" MINIMUM TO 2" MAXIMUM OR ANOTHER APPROVED GRASPABLE SHAPE PER IRC SECTION R311.7.8.5.

  PROVIDE A MINIMUM 6"-8" OF HEADROOM CLEARANCE IN STAIRWAYS.

  ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON THE
- 7. WINDERS SHALL PROVIDE A MINIMUM TREAD OF 6" AT ANY POINT WITHIN CLEAR WIDTH OF STAIRS, WINDER TREAD PROPORTION IS TO COMPLY WITH IRC SECTION R311.7.52.1.

GLAZING NOTES:

1. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR, WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR, ENCLOSURES FOR SPAS, TUBS, SHOWERS AND WHIRLPOOLS, GLAZING IN FIXED OR OPERABLE PANELS EXCEEDING 9 S.F. AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36".

ABOVE THE FLOOD OF WILLING SUPFACE WITHIN 30. 2. IN DWELLING UNTER THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72° ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24° ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF A 4" DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24" OF THE FINISHED FLOOR.

- FRAMING NOTES:

  1. ALL LUMBER SIZES ARE FOR DOUGLAS FIR-LARCH UNLESS NOTED OTHERWISE.

  1. ALL LUMBER SIZES ARE FOR DOUGLAS FIR-LARCH UNLESS NOTED OTHERWISE.
  - ALL HEADERS ARE TO BE A MINIMUM OF (2) #2 2x10'S UNLESS NOTED OTHERWISE. BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS.

- 2. ALL HEADERS ARE TO BE A MINIMUM OF (2) #2 2x10'S UNLESS NOTED OTHERWISE.

  8. BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS.
  4. ALL HEADERS/BEAMS ARE TO BEAR ON A MINIMUM OF (2) 2x4 POSTS UNLESS NOTED OTHERWISE.
  5. INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE.
  6. WHERE JOISTS RUN PARALLEL TO FOUNDATION WALLS, SOLID BLOCKING FOR A MINIMUM OF (2) JOIST SPACES SHALL BE PROVIDED AT A MAXIMUM OF 4' ON CENTER TO TRANSFER LATERAL LOADS ON THE WALL TO THE FLOOR DIAPHRAGM. THE BLOCKING SHALL BE SECURELY NAILED TO THE JOISTS AND FLOORING, NAIL JOISTS FRAMING FIND AND SHALL BE SIZED TO CARRY THE DESIGN LOAD IN ACCORDANCE WITH IRC SECTION RS02.4.

  10. JOISTS FRAMING FIND A WOOD GIRDER OR BEAM SHALL BE SUPPORTED BY APPROVED FRAMING ANCHORS OR ON MINIMUM 2722" ELECTRIC TORSON FLOORING, NAIL BE DOUBLED WHEN THE HEADER SHALL BE SUPPORTED BY APPROVED FROM THE FLOOR FRAMING. TRIMMER JOISTS SHALL BE DOUBLED WHEN THE HEADER IS SUPPORTED MORE THAN 3'FROM THE IRIMMER, JOISTS BEARING, WHEN THE HEADER SHAD EXCEDS 4'. THE HEADER AND TRIMMER SHALL BE DOUBLED.

  13. JOISTS AT SUPPORTS SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL DEPTH SOLID BLOCKING NOT LESS THAN 2' IN NOMINAL THICKNESS OR BY ATTACHMENT TO A HEADER, BAND, OR RIM JOIST OR TO

CONCRETE NOTES:

1. CONCRETE SHALL BE AIR-ENTRAINED (5%-7%) WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI FOR BASEMENT AND INTERIOR FLOOR SLABS, 3000 PSI FOR BASEMENT AND FOUNDATION WALLS, AND 3500 PSI FOR PORCHES, CARPORTS AND GARAGE FLOOR SLABS.

EMERGENCY EGRESS AND RESCUE NOTES:

1. PROVIDE ONE WINDOW FOR EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 S.F. WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21". IN ADDITION, THE OPENABLE PORTION OF EGRESS WINDOWS SHALL NOT EXCEED 44" ABOVE THE ADJOINING FLOOR OR PERMANENT STEP.

2. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA, AND ON EACH FLOOR INCLUDING BASEMENTS. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.

3. PROVIDE CARBON MONOXIDE ALARMS AS REQUIRED PER IRC, CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF EACH SLEEPING AREA. WHERE FUEL-BURNING APPLIANCES ARE LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED IN THE BEDROOM.

- GARAGE NOTES:

  1. THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS OR SLOPE TO A TRENCH OR UNTRAPPED DRAIN THAT DISCHARGES DIRECTLY TO THE EXTERIOR DOORS BETWEEN THE GARAGE AND DWELLING - MINIMUM 1 3/8" THICK SOLID WOOD. MINIMUM 1 3/8" THICK SOLID OR HONEY-COMB-CORE STEEL DOOR, OR 20-MINUTE
- FIRE-RATED EQUIPPED WITH A SELF-CLOSING DEVICE PER IRC SECTION R302.5.1. GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115-MPH 3-SECOND GUST LOADING PER DASMA 108 AND ASTM E 330-96 PER
- ECTION NOTIZET.
  THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM 5/8" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE, THE FLOOR/CEILING ASSEMBLY SHALL BE PROTECTED WITH MINIMUM 5/8" TYPE X GYPSUM BOARD ON THE GARAGE CEILING WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE THE GARAGE, COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/8"
- WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE THE GARAGE, COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/8" GYPSUM BOARD OR EQUIVALENT.

  5. GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BLANCE SHALL CONSIST OF THE FOLLOWING: 2:6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING ATTACHED WITH 1 3/4"x0.120" NAILS AT 7" ON CENTER STAGGERED WITH (7) 3 1/4"x0.120" NAILS THROUGH THE JAMB INTO THE HEADER, MINIMUM 2x8 HEADER FOR ATTACHMENT OF THE COUNTER BALANCE SYSTEM.

  6. ANY ATTACHED GARAGE TO THE MAIN HOUSE SHALL BE PROVIDED WITH A SINGLE HEAT DETECTOR. THE HEAT DETECTOR SHALL BE HARDWIRED AND INTERCONNECTED WITH THE HOUSEHOLD SMOKE ALARM SYSTEM. THE HEAT DETECTOR SHALL BE LISTED FOR THE AMBIENT ENVIRONMENT AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

MECHANICAL/INSULATION:
1. BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.2 OR THE 2018 IECC.

VENTILATION:
1. ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW.

1. ENCLOSED ATTICS SHALL HAVE CROSS VENTILATING AREA SHALL NOT BE VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH, WITH 1/8" TO 1/4" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150th OF THE AREA OF SPACE VENTILATED. WHERE THE VENTILATORS ARE LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED, THE REQUIRED AREA MAY BE REDUCED TO 1/300th

**ARCHITECTURE** TERR 47th > YURDAER 2012



DETAILS STRUCTURAL D & NOTES

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GENERAL NOTES

## **TABLE R602.3(1) FASTENING SCHEDULE**

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER <sup>3, b, c</sup>	SPACING AND LOCATION
		ROOF	
1	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE	4-8D BOX (2 ½" x 0.113"); OR 3-8D COMMON (2 ½" x 0.131"); OR	TOE NAIL
2	CEILING JOISTS TO PLATE	3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	PER JOIST, TOE NAIL
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.5.2)	4-10D BOX (3" x 0.128"); OR 3-16D COMMON (3 ½" x 0.162"); OR 4-3" x 0.131" NAILS	FACE NAIL
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION R802.5.2 AND TABLE R802.5.2)	TABLE R802.5.2	FACE NAIL
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" x 20 GA. RIDGE STRAP TO RAFTER	4-10D BOX (3" x 0.128"); OR 3-10D COMMON (3" x 0.148"); OR 4-3" x 0.131" NAILS	FACE NAIL EACH RAFTER
6	RAFTER OR ROOF TRUSS TO PLATE	3-16D BOX NAILS (3 1/2" x 0.135"); OR 3-10D COMMON NAILS (3" x 0.148"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	4-16D (3 ½" x 0.135"); OR 3-10D COMMON (3" x 0.148"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS 3-16D BOX (3 ½" x 0.135"); OR 2-16D COMMON (3 ½" x 0.162"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	TOE NAIL END NAIL
		WALL	
		16D COMMON (3 1/2" x 0.162")	24" O.C. FACE NAIL
8	STUD TO STUD (NOT BRACED WALL PANELS)	10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS	16" O.C. FACE NAIL
		16D BOX (3 ½" x 0.135"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16D COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL
		16D COMMON (3 ½ × 0.162 )	16" O.C. EACH EDGE FACE NAIL
10	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)		
		16D BOX (3 ½" x 0.135")	12" O.C. EACH EDGE FACE NAIL
11	CONTINUOUS HEADER TO STUD	5-8D BOX (2 1/2" x 0.113"); OR 4-8D COMMON (2 1/2" x 0.131"); OR 4-10D BOX (3" x 0.128")	TOE NAIL
12	TOP PLATE TO TOP PLATE	16D COMMON (3 <sup>1</sup> / <sub>2</sub> " x 0.162")	16" O.C. FACE NAIL
		10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL
13	DOUBLE TOP PLATE SPLICE	8-16D COMMON (3 ½" x 0.162"); OR 12-16D BOX (3 ½" x 0.135"); OR 12-10D BOX (3" x 0.128"); OR 12-3" x 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	16D COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL
17	(NOT AT BRACED WALL PANELS)	16D BOX (3 ½" x 0.135"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANEL)	3-16D BOX (3 ½" x 0.135"); OR 2-16D COMMON (3 ½" x 0.162"); OR 4-3" x 0.131" NAILS	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL
16	TOP OR BOTTOM PLATE TO STUD	4-8D BOX (2 ½" x 0.113"); OR 3-16D BOX (3 ½" x 0.135"); OR 4-8D COMMON (2 ½" x 0.131"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	TOE NAIL
		3-16D BOX (3 1/2" x 0.135"); OR 2-16D COMMON (3 1/2" x 0.162"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10D BOX (3" x 0.128"); OR 2-16D COMMON (3 ½" x 0.162"); OR 3-3" x 0.131" NAILS	FACE NAIL
18	1" BRACE TO EACH STUD AND PLATE	3-8D BOX (2 1/2" x 0.113"); OR 2-8D COMMON (2 1/2" x 0.131"); OR 2-10D BOX (3" x 0.128"); OR 2 STAPLES 1 3/4"	FACE NAIL
19	1" x 6" SHEATHING TO EACH BEARING	3-8D BOX (2 1/2" x 0.113"); OR 2-8D COMMON (2 1/2" x 0.131"); OR 2-10D BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG	FACE NAIL
20	1" x 8" AND WIDER SHEATHING TO EACH BEARING	3-8D BOX (2 ½" x 0.113"); OR 3-8D COMMON (2 ½" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3 STAPLES, 1" CROWN, 16 GA., 1 ¾" LONG  WIDER THAN 1" x 8"  4-8D BOX (2 ½" x 0.113"); OR 3-8D COMMON (2 ½" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ¾" LONG	FACE NAIL
		FLOOR	
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2 ½" x 0.113"); OR 3-8D COMMON (2 ½" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	TOE NAIL
0-	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE	8D BOX (2 ½" x 0.113")	4" O.C. TOE NAIL
22	(ROOF APPLICATIONS ALSO)	8D COMMON (2 <sup>1</sup> / <sub>2</sub> " x 0.131"); OR 10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS	6" O.C. TOE NAIL
23	1" x 6" SUBFLOOR OR LESS TO EACH JOIST	3-8D BOX (2 ½* x 0.113**); OR 2-8D COMMON (2 ½* x 0.131*); OR 3-10D BOX (3* x 0.128*); OR 2 STAPLES, 1* CROWN, 16 GA., 1 ¾* LONG	FACE NAIL
		FLOOR	
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16D BOX (3 ½" x 0.135"); OR	BLIND AND FACE NAIL
25	2" PLANKS (PLANK & BEAM-FLOOR AND ROOF)	2-16D COMMON (3 ½" x 0.162") 3-16D BOX (3 ½" x 0.135"); OR 2 16D COMMON (3 ½" x 0.155");	AT EACH BEARING, FACE NAIL
26	BAND OR RIM JOIST TO JOIST	2-16D COMMON (3 ½" x 0.162") 3-16D COMMON (3 ½" x 0.162"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS; OR	END NAIL
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	4-3" x 14 GA. STAPLES, 7/16" CROWN 20D COMMON (4" x 0.192"); OR 10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS	NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED. 24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	AND: 2-20D COMMON (4" x 0.192"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 4-16D BOX (3 ½" x 0.135"); OR 3-16D COMMON (3 ½" x 0.162"); OR	FACE NAIL AT ENDS AND AT EACH SPLICE  AT EACH JOIST OR RAFTER, FACE NAIL
28	BRIDGING OR BLOCKING TO JOIST	4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS 2-10D BOX (3" x 0.128"); OR 2-8D COMMON (2 1/2" x 0.131" OR 2-3" x 0.131") NAILS	EACH END, TOE NAIL
6563	= 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi = 6.895 MPa.	(2 <sup>1</sup> / <sub>2</sub> " x 0.131" OR 2-3" x 0.131") NAILS	ENOTIEND, TOE NAIL

SECTION AND ASSESSMENT THRESPORTED AS A DESCRIPTION OF THE ARMS OF THE ASSESSMENT AND AS A SECTION AS A DESCRIPTION AS A DESCRIPTION AS A SECTION AS A SECTION AS A DESCRIPTION AS A SECTION AS A SECTIO

## **CONTINUED TABLE R602.3(1) FASTENING SCHEDULE**

			SPACING OF FASTENERS			
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER <sup>a, b, c</sup>	EDGES (INCHES)h	INTERMEDIATE SUPPORTS <sup>C, ©</sup> (INCHES)		
	WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [SEE TABLE R602.3(3) FOR WOOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO WALL FRAMING]					
30	3/8" - 1/2"	6D COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8D COMMON (2 <sup>1</sup> / <sub>2</sub> " x 0.131") NAIL (ROOF); OR RSRS-01 (2 <sup>3</sup> / <sub>8</sub> " x 0.113") NAIL (ROOF)	6	12 <sup>f</sup>		
31	<sup>19</sup> / <sub>32</sub> " - 1"	8D COMMON NAIL (2 1/2" x 0.131"); OR RSRS-01 (2 3/6" x 0.113") NAIL (ROOF)	6	12 <sup>f</sup>		
32	1 1/8" - 1 1/4"	10D COMMON (3" x 0.148") NAIL; OR 8D (2 ½" x 0.131") DEFORMED NAIL	6	12		
	то	THER WALL SHEATHING <sup>9</sup>				
33	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 ½" GALVANIZED ROOFING NAIL, ½" HEAD DIAMETER, OR 1 ¼" LONG 16 GA. STAPLE WITH ½" OR 1" CROWN	3	6		
34	<sup>25</sup> / <sub>32</sub> " STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR 1 1/2" LONG 16 GA. STAPLE WITH 7/16" OR 1" CROWN	3	6		
35	1/2" GYPSUM SHEATHING <sup>d</sup>	1 1/2" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1 1/2" LONG; 1 1/4" SCREWS, TYPE W OR S	7	7		
36	5/8" GYPSUM SHEATHING <sup>d</sup>	1 3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1 5/6" LONG; 1 5/6" SCREWS, TYPE W OR S	7	7		
	WOOD STRUCTURAL PANELS, CO	OMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING				
37	3/4" AND LESS	6D DEFORMED (2" x 0.120") NAIL; OR 8D COMMON (2 1/z" x 0.131") NAIL	6	12		
38	7/8" - 1"	8D COMMON (2 <sup>1</sup> / <sub>2</sub> " x 0.131") NAIL; OR 8D DEFORMED (2 <sup>1</sup> / <sub>2</sub> " x 0.120") NAIL	6	12		
39	1 1/6" - 1 1/4"	10D COMMON (3" x 0.148") NAIL; OR 8D DEFORMED (2 ½" x 0.120") NAIL	6	12		

## **TABLE R602.3(2) ALTERNATE ATTACHMENTS TO TABLE R602.3(1)**

aniowa applateuro					
NOMINAL MATERIAL THICKNESS (INCHES)	DESCRIPTION <sup>a, b</sup> OF FASTENER AND LENGTH (INCHES)		ACING <sup>c</sup> OF FASTENERS		
			INTERMEDIATE SUPPORTS (INCHES)		
WOOD STRUCTURAL PANELS SUBFLOOR, ROOF® AND WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING!					
	STAPLE 15 GA. 1 3/4	4	8		
UP TO 1/2	0.097 - 0.099 NAIL 2 <sup>1</sup> / <sub>4</sub>	3	6		
	STAPLE 16 GA. 1 3/4	3	6		
	0.113 NAIL 2	3	6		
<sup>19</sup> / <sub>32</sub> AND <sup>5</sup> / <sub>8</sub>	STAPLE 15 AND 16 GA. 2	4	8		
	0.097 - 0.099 NAIL 2 <sup>1</sup> / <sub>4</sub>	4	8		
	STAPLE 14 GA. 2	4	8		
<sup>23</sup> / <sub>32</sub> AND <sup>3</sup> / <sub>4</sub>	STAPLE 15 GA. 1 3/4	3	6		
13271110 14	0.097 - 0.099 NAIL 2 <sup>1</sup> / <sub>4</sub>	4	8		
	STAPLE 16 GA. 2	4	8		
	STAPLE 14 GA. 2 1/4	4	8		
1	0.113 NAIL 2 <sup>1</sup> / <sub>4</sub>	3	6		
,	STAPLE 15 GA. 2 1/4	4	8		
	0.097 - 0.099 NAIL 2 1/2	4	8		
NOMINAL MATERIAL		SP	ACING® OF FASTENERS		
THICKNESS (INCHES)	DESCRIPTION <sup>2, 5</sup> OF FASTENER AND LENGTH (INCHES)	EDGES (INCHES)	BODY OF PANEL® (INCHES)		
	FLOOR UNDERLAYMENT; PLYWOOD-HARDBOARD-PARTICLEBOARD-F	IBER-CEMENTh			
	FIBER-CEMENT				
	3D, CORROSION-RESISTANT, RING SHANK NAILS (FINISHED FLOORING OTHER THAN TILE)	3	6		
	STAPLE 18 GA., <sup>7</sup> / <sub>8</sub> LONG, <sup>3</sup> / <sub>4</sub> CROWN (FINISHED FLOORING OTHER THAN TILE)	3	6		
1/4	1 1/4 LONG x .121 SHANK x .375 HEAD DIAMETER CORROSION-RESISTANT (GALVANIZED OR STAINLESS STEEL) ROOFING NAILS (FOR TILE FINISH)	8	8		
	1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, RIBBED WAFER-HEAD SCREWS (FOR TILE FINISH)	8	8		
	PLYWOOD	•			
	1 1/4 RING OR SCREW SHANK NAIL-MINIMUM 12 1/2 GA. (0.099*) SHANK DIAMETER	3	6		
1/4 AND 5/16	STAPLE 18 GA., 7/8, 3/16 CROWN WIDTH	2	5		
11/ <sub>32</sub> , 3/ <sub>8</sub> , 15/ <sub>32</sub> AND 1/ <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub> RING OR SCREW SHANK NAIL-MINIMUM 12 <sup>1</sup> / <sub>2</sub> GA. (0.099") SHANK DIAMETER	6	8e		
	1 ½ RING OR SCREW SHANK NAIL-MINIMUM 12 ½ GA. (0.099*) SHANK DIAMETER	6	8		
19/ <sub>32</sub> , 5/ <sub>8</sub> , <sup>23/</sup> <sub>32</sub> AND <sup>3</sup> / <sub>4</sub>	STAPLE 16 GA.1 1/2	6	8		
	HARDBOARD <sup>1</sup>				
	1 ½ LONG RING-GROOVED UNDERLAYMENT NAIL	6	6		
0.200	4D CEMENT-COATED SINKER NAIL	6	6		
	STAPLE 18 GA., <sup>7</sup> /8 LONG (PLASTIC COATED)	3	6		
	PARTICLEBOARD		<u> </u>		
	4D RING-GROOVED UNDERLAYMENT NAIL	3	6		
1/4	STAPLE 18 GA., <sup>7</sup> / <sub>8</sub> LONG, <sup>3</sup> / <sub>16</sub> CROWN	3	6		
	6D RING-GROOVED UNDERLAYMENT NAIL	6	10		
3/a	STAPLE 16 GA., 1 1/8 LONG, 3/6 CROWN	3	6		
	6D RING-GROOVED UNDERLAYMENT NAIL	6	10		
1/2, 5/8	STAPLE 16 GA., 1 % LONG, 3/6 CROWN	3	6		
			·		

inch \* 23 mm.

ANL IS A GENERAL DESCRIPTION AND SHALL BE PERMITTED TO BE T-HEAD, MODIFIED ROUND HEAD OR ROUND HEAD, STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 71/6-INCH ON DIAMETER EXCEPT AS NOTED.

ANLE OR STAPLES SHALL BE SPACED AT NOT MODE THAN B INCHES ON CENTRE AT ALL SUPPORTS WHERE SPANS ARE 48 INCH

MALE OR STRUCES SHALL BE SPACED AT NOT MODE THAN B MALES ON LERITERAL BLADFACES WITHOUT STRUCE OF MALES AND ADMINISTRATION OF MALES AND ADMINI

## **DESIGN LOADS (PSF)**

AREA	MIN. DEAD LOAD	MIN. LIVE LOAD
EXTERIOR BALCONIES	10	60
DECKS, STAIRS	10	40
CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE 3:12 OR LESS	10	10
CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE OVER 3:12	10	10
CEILING JOISTS / ATTICS WITH STORAGE - DOOR PULL DOWN LADDER ACCESS	10	20
ROOMS: NON-SLEEPING	10	40
ROOMS: SLEEPING	10	30
ROOF: LIGHT ROOF COVERING	10	20
ROOF: HEAVY ROOF COVERING / CONCRETE / TILE / SLATE	20	20
GUARDRAILS, HANDRAILS	200# LL 1	NORMAL

HEAVY ROOF COVERING MATERIAL (TILE, CONCRETE, SLATE, ETC.) SHALL NOT BE USED UNILESS 20 PSF DEAD L.OAD AND HEAVY ROOF IS NOTED ON THE ROOF PLAN. IN FHAVY ROOFING IS TO SE USED AND IS NOT NOTED ON THE ROOF PLAN, NOTHEY ENGINEER PRIOR TO ANY CONSTRUCTION, INCLUDING FOUNDATION AND SITE WORK. IF THE PLAN HAS BEEN DESIGNED FOR HEAVY ROOF LOADS IT WILL BE NOTED IN THE ROOF NOTES ON THE ROOF PLAN.

## **ENGINEERED LUMBER**

	F <sub>b</sub> (psi)	E (psi)	F <sub>v</sub> (psi)
LVL	2600	1.8x10	285
GLULAM	2400	1.8x10	190
PARALAM	2600	2.0x10	290

BUILDER'S PLANS: THE TERM 'BUILDER'S PLANS' REFERS TO A CERTAIN LEVEL OF DEVELOPMENT OF THE DRAWINGS. AS THE NAME IMPLIES, THESE PLANS REQUIRE THAT THE CONTRACTOR POSSESSES COMPETENCE IN RESIDENTIAL CONSTRUCTION AND A THOROUGH UNDERSTANDING OF THE INTERNATIONAL RESIDENTIAL COOPE (RIC.) THE CONTRACTOR WARRANTS TO HO ENGINEERING & DESIGN THAT THEY POSSESSES THE PARTICULAR COMPETENCE AND SKILL IN CONSTRUCTION NECESSARY TO BUILD THIS PROJECT WITHOUT FULL ENGINEERING AND DESIGN SERVICES, AND FOR THAT REASON THE CONTRACTOR OR HOME OWNER HAS RESTRICTED THE SCOPE OF PROFESSIONAL SERVICES. THE CONSTRUCTION DOCUMENTS PROVIDED BY THE LIMITED SERVICES SHALL BE TERMED 'BUILDER'S PLANS' IN RECOGNITION OF THE CONTRACTOR'S SOPHISTICATION. ALTHOUGH HDE PROIDERERINGS ADDITION ADDITION THE SERVICES WITH DUE CARE AND DILIGENCE, WE CANNOT GUARANTEE PERFECTION. ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS SHALL BE REPORTED BILDER'S PLANS' IN RECOGNITION OF THE CONTRACTOR ADAPT THE 'BUILDER'S PLANS' IN THE FIGURE OF THE SERVICES WITH DUE CARE AND DILIGENCE, WE CANNOT GUARANTEE PERFECTION. ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS SHALL BE REPORTED BILDER'S PLANS SHALL BE REPORTED BILDER'S PLANS' IN THE SERVICES WITH DUE CARE AND DILIGENCE, WE CANNOT GUARANTEE PERFECTION. ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS SHALL BE REPORTED BILDER'S PLANS' TO THE FIGURE ON THE SERVICES WITH THE CONTRACTOR ADAPT THE 'BUILDER'S PLANS' TO THE FIGURE ON THE COUNTRECT AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSION AND QUANTITY. CHANGES MADE FROM THE PLANS WITHOUT THE CONSENT OF DE DISCREPANCY OF THE FIGURE OF A PROVINCE OF THE PLANS SHALL BE REFORDED BY THE USE OF THE PLANS SHALL BY PLANS TO THE CONTRACTOR WILL BE RESPONSIBLE FOR MEETING ALL APPLICABLE BUILDING CODES IN CONSENT OF DENGINEERING & DESIGN OR A CALLIFIED ENGINEER SHALL IMMEDIATELY BE REFTANDED FAILURE ON THE CONTRACTOR OR HOMEOWNER FOR CONSTRUCTION OF ANY ASPECT OF THE PROJECT, IN ENGINEERING & DESIGN OR A POLABL

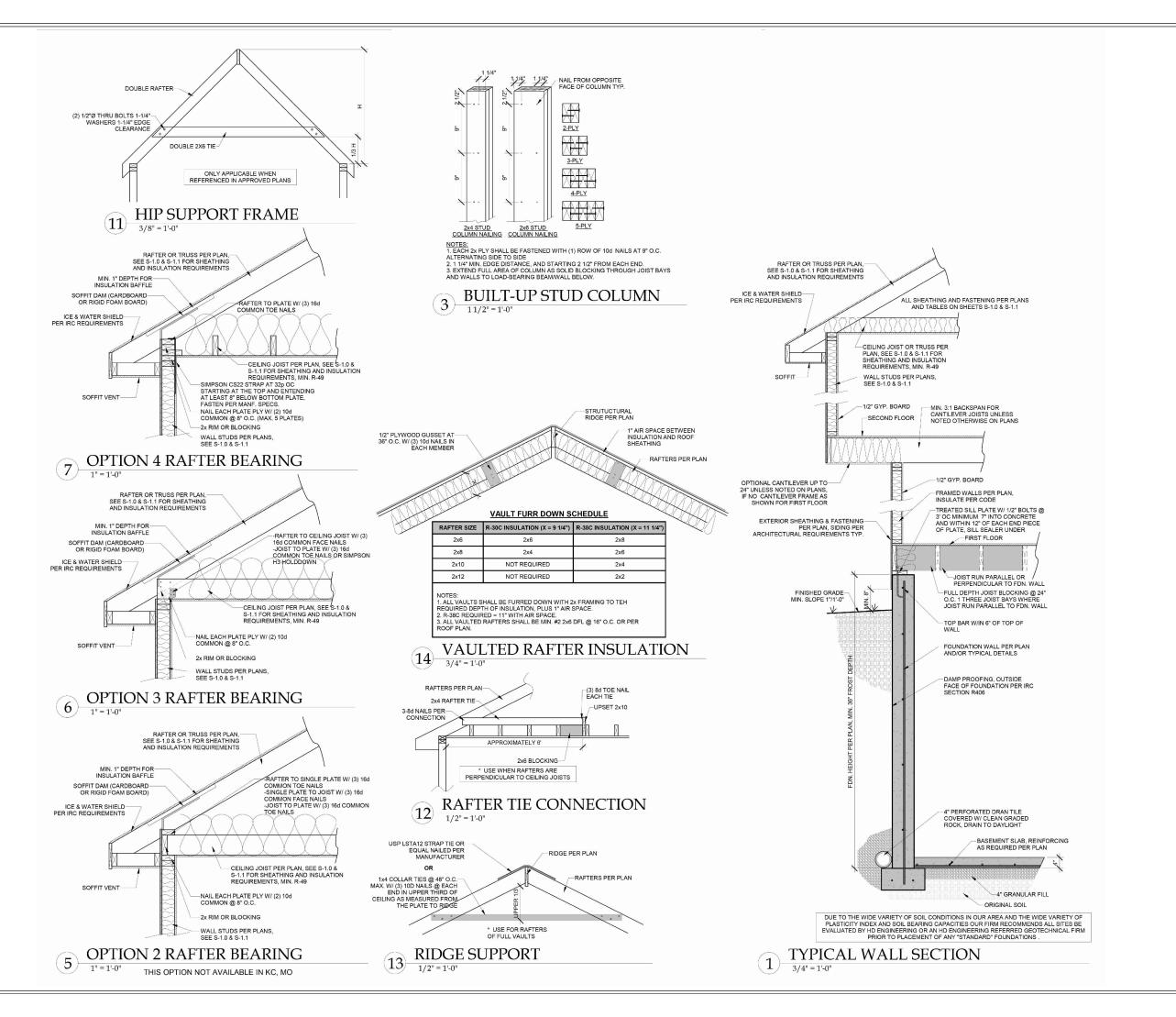
YURDAER ARCHITECTURE 47th TERR Ś 2012

STRUCTURAL DETAILS & NOTES

	DATE	<u>:</u> :		
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GENERAL NOTES

**S-1.1** 



YURDAER ARCHITECTURE 2012 W. 47th TERR.

STRUCTURAL DETAILS & NOTES

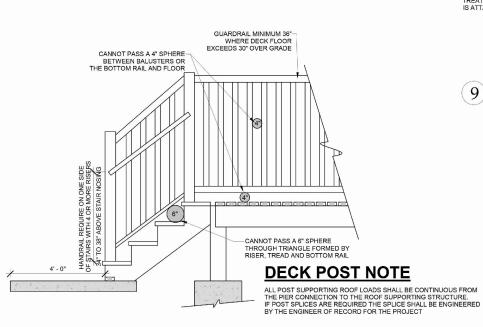
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NO. ISSUE/REVISION Revision Date

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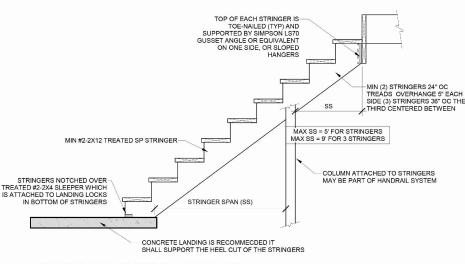
GENERAL NOTES

S-1.2

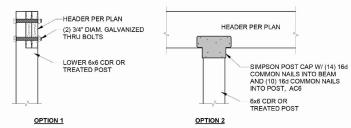


**GUARD RAIL** 

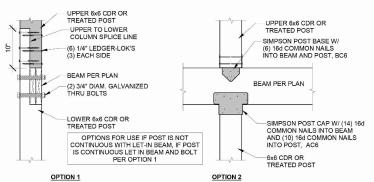
18" DEEP PRE-MANUFACTURED FLOOR TRUSSES AT 1'-4" ON CENTER



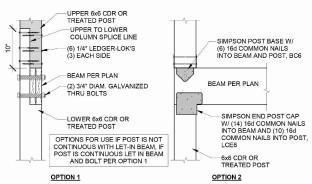
STAIR STRINGER DETAIL



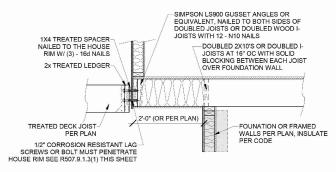
ROOF LEVEL INTERIOR BEAM TO COLUMN



DECK LEVEL INTERIOR BEAM TO COLUMN



DECK LEVEL EXTERIOR BEAM TO COLUMN



DECK LEDGER TO CANTILEVER

## **TABLE IRC2018 R507.9.1.3(1)** DECK LEDGER CONNECTION TO BAND JOIST \*\* (DECK LIVE LOAD = 40 PSF, DECK HEAD LOAD = 10 PSF, SNOW LOAD < 40 PSF)

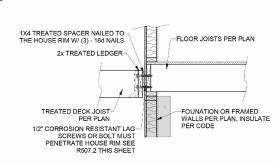
JOIST SPAN	6' AND LESS	6'-1" TO 8'	8'-1" TO 10'	10'-1" TO 12'	12'-1" TO 14'	14'-1" TO 16'	16'-1" TO 18'
CONNECTION DETAILS ON-CENTER SPACING OF FASTENERS d. e							
1/2" LAG SCREW WITH 15/32" MAX. SHEATHING <sup>c,d</sup>	30	23	18	15	13	11	10
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING <sup>d</sup>	36	36	34	29	24	21	19
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING & 1/2" STACKED WASHERS <sup>e</sup>	36	36	29	24	21	18	16

- For SI: 1 inch = 25.4mm, 1 foot = 304.8mm, 1 pound per square foot = 0.0479 kPa
  a. Ledges shall be flashed in accordance with Section R703.4 to prevent water from contacting the house band joist.
  b. Snow load shall not be assumed to act concurrently with live load.
  c. The tip of the lag screw shalf fully extend beyond the inside face of the band joist.
  d. Sheathing shall be wood structural panel or solid sawn lumber.
  e. Sheathing shall be permitted to be wood structural panel, gypsum board, fiberboard lumber or foam sheathing. Up to 1/2" thinckness of stacked washers shall be permitted to substitute for you to 1/2" of allowable sheathing thickness where combined with wood structural panel or lumbers sheathing.

## **TABLE IRC2018 R507.9.1.3(2)** PLACEMENT OF LAG SCEWS AND BOLT IN **DECK LEDGERS AND BAND JOISTS**

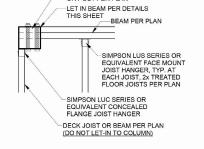
MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS								
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING				
LEDGER <sup>a</sup>	2 inches d	3/4 inches	2 inches <sup>b</sup>	1 5/8 inches b				
BAND JOIST <sup>c</sup>	3/4 inches	2 inches	2 inches	1 5/8 inches b				

- For SI: 1 inch = 25.4mm.
  a. Lag screws of bolts shall be staggered from the top to the bottom along the horizontal run of the deck ledger in accordance with Figure R507.9.1.3(1)
  b. Maximum 5 inces
  c. For engineered rim joists, the manufacturer's recommendations shall govern.
  d. The minimum distances from bottom row of lag screws or bolts to the top of the ledger shall be in accordance with Figure R507.9.1.3(1)



DECK LEDGER ATTACHMENT

3/4" = 1'-0'



-6x6 CDR OR TREATED POST OR POST PER PLAN

DECK CORNER COLUMN

FLOOR TRUSS PERIMETER DETAIL

YURDAER ARCHITECTURE

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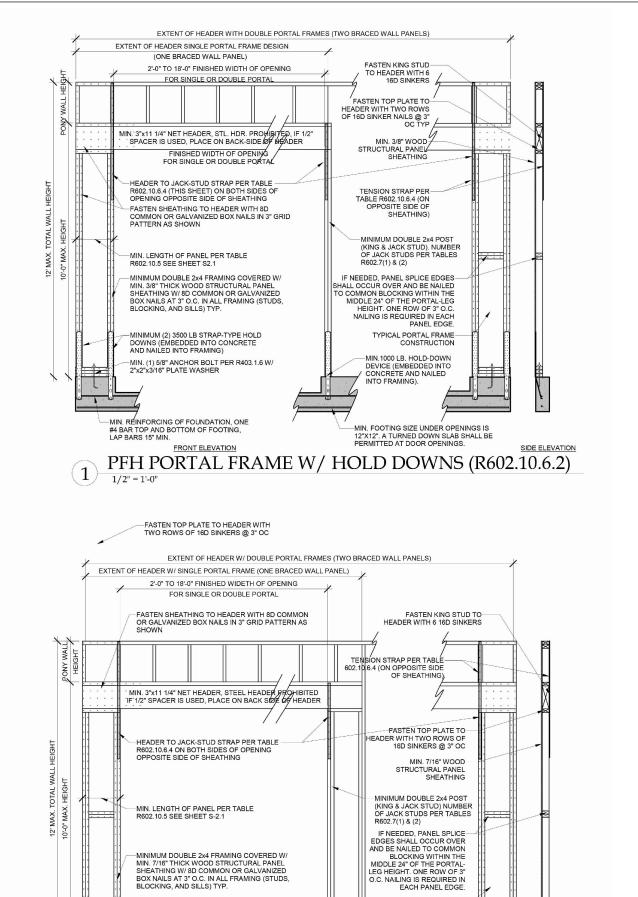
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**S-1.3** 



FULL DEPTH BLOCKING @ 16" O.C. ALONG BRACED WALL PANEL BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING JOISTS CONTINUOUS RIM OR END JOIST FULL DEPTH BLOCKING @ 16" O.C. ALONG BRACED WALL PANEL ADDITIONAL FRAMING MEMBER ABOVE BW 8d AT 6" OC ALONG 8d AT 6" OC (3) 16d AT EACH ALONG BW PANEL (3) 16d AT FACH BW PANEL BW PANEL (3) 16d AT 16" O.C. ALONG BW PANEL (3) 16d AT 16" O.C. ALONG BW PANEL -CONTINUOUS RIM ADDITIONAL FRAMING FULL DEPTH BLOCKING OR END JOIST @ 16" O.C. ALONG BRACED WALL PANEL MEMBER UNDER BW BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING JOISTS

-FULL DEPTH BLOCKING @ 16" O.C. ALONG BRACED WALL PANEL

ALONG BW PANEL

—(3) 16d AT 16" O.C. ALONG BW PANEL

PERPENDICULAR

CONTINUOUS RIM OR END JOIST

8d AT 6" OC ALONG

PERPENDICULAR JOISTS

CONTINUOUS RIM OR END JOIST

BW PANEL -(3) 16d AT 16" O.C. ALONG BW PANEL

BRACED WALL PANEL CONNECTIONS

PFG PORTAL FRAME W/OUT HOLD DOWNS (R602.10.6.3)

FRONT ELEVATION

SEE CORNER FRAMING DETAIL -MIN. (2) 1/2" DIAM. ANCHOR BOLT INSTALLED PER R403.1.6 W/ 2"x2"x3/16' TYPICAL PORTAL FRAME CONSTRUCTION

INTERMITTENT BRACED

WALL PANEL REQUIRED ADJACENT OPENING FOR

SINGLE PORTAL FRAME ANCHOR BOLTS PER SECTION R403.1.6

**S-2.0** 

GENERAL NOTES

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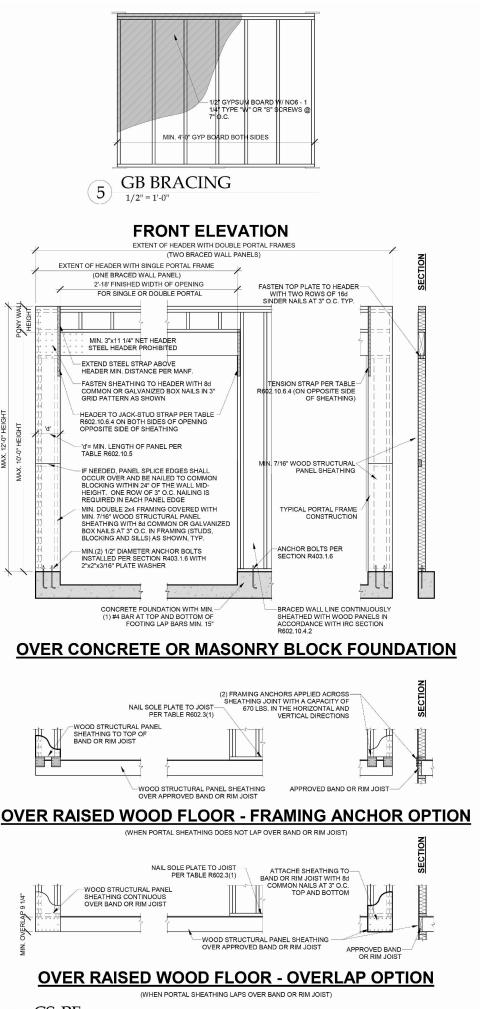
STRUCTURAL DETAILS & NOTES

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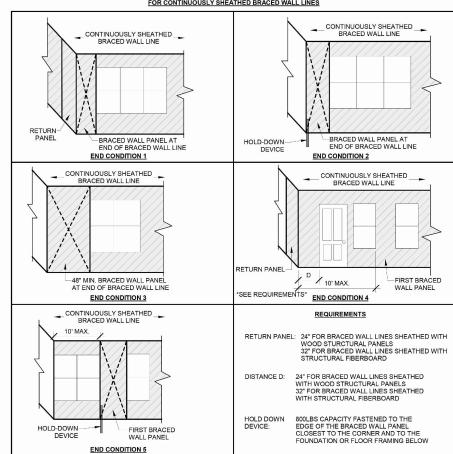
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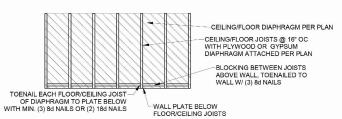
2012



## **END WALL CONDITIONS**

FOR CONTINUOUSLY SHEATHED BRACED WALL LINES





DIAPHRAGM CONNECTION TO INTERIOR WALL

CS-PF 1/2" = 1'-0" **YURDAER ARCHITECTURE** 47th TERR ≶ 2012

STRUCTURAL DETAILS & NOTES

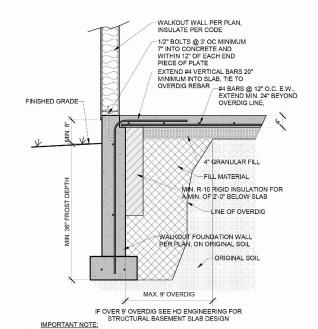
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GENERAL NOTES

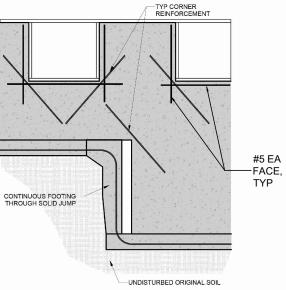
FOR SUSPENDED SLABS A MAXIMUM OF 10' ABOVE FLOOR BELOW: TEMPORARY SHORING WALLS SHALL BE PLACED AT A MAXIMUM OF 4' O.C. #2-224 STUDS AT 16' O.C. W/ TOP AND BOTTOM PLATE, WALL TO HAVE CONTINUOUS DIAGONAL BRACING. LATERAL BRACING TO BE RUN FROM WALL TO WALL AT MID HEIGHT 4' ON CENTER. SHORING TO REMAIN IN PLACE FOR AT LEAST 21 DAYS.

# SUSPENDED PORCH STOOP SLAB



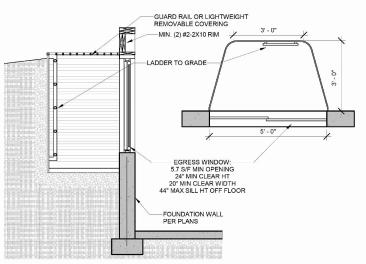
IMPORTANT NOTE:
ANY SLAB WITH GREATER THAT 2' OF GRADED ROCK OR 8' OF FILL SOIL BELOW
SHALL BE DESIGNED AS STRUCTURAL PER PLAN. OUR FIRM SHOULD BE
CONTACTED IMMEDIATELY FOR DESIGN RECOMMENDATIONS. DESIGN MUST BE
COMPLETED PRIOR TO PLACEMENT OF PIERS OR FOOTINGS.

WALKOUT DETAIL

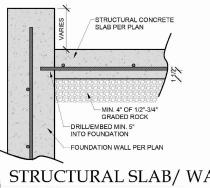


WHERE OPENINGS OR ABRUPT ELEVATION CHANGES OCCUR IN THE TOP OR BOTTOM OF THE WALL AT LEAST ONE #5 BAR 48" LONG SHALL BE DIAGONALLY AS CLOSE A PRACTICAL TO EACH FACE

## REINFORCEMENT AT CORNERS AND STEPS



**EGRESS WINDOW SECTION** (11)



CONCRETE STRENGTH	8" THIC	K WALL	10" THICK WALL		
CONCRETE STRENGTH	8'	9'	8'	9'	
3000 PSI/ 40 KSI	16	12	24	16	
3500 PSI/ 40 KSI	16	12	24	24	
3000 PSI/ 60 KSI	24	16	24	20	
3500 PSI/ 60 KSI	24	16	24	24	

- \* CONCRETE SHALL HAVE AIR ENTRAINMENT OF 5-7%.
  \* MINIMUM REQUIREMENT FOR VERTICAL REBAR IN PLAIN CONCRETE WALLS IS #4 @ 36" ON
- \* VERTICAL BARS SHALL BE CONTINUED UP TO WITHIN 8" OF THE TOP OF THE WALL.

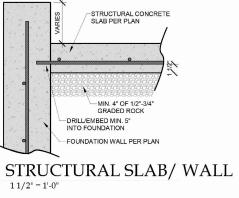
  \* REBAR SHALL BE POSITIONED AT THE TENSION FACE OF THE WALL (2" FROM THE INSIDE
- \* REINFORCEMENT SHALL LAP A MINIMUM OF 24 INCHES AT ENDS, SPLICES, AND AROUND CORNERS.

MAX. SPACING 24" O.C.

- \*\* #4 BARS @ 24" ON CENTER.

  \*\* #4 BAR WITHIN 12 OF TOP AND BOTTOM OF WALL.

  \*\* MINIMUM GRADE 40 (40ksi) STEEL (PER ACI 332).
- \*\* HORIZONTAL REINFORCEMENT SHALL BE INSTALLED ON THE COMPRESSION SIDE (SOIL SIDE) OF THE VERTICAL REINFORCEMENT



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## MINIMUM INSULATION & FENSTRATION VALUES BY COMPONENT, PER IRC2018 N1102.1.2

CLIMATE ZONE	FENSTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED SHGC FENSTRATION		INSULATED WOOD DOOR U-VALUE		WOOD FRAMED WALL R-VALUE	FLOOR R-VALUE			WALL R-VALUE	DUCTWORK OVER OUTSIDE R-VALUE	
4 EXCEPT MARINE	0.32	0.55	0.40	0.60	0.50	49	20 OR 13 CAV. +5	19	10 CONTINUOUS OR 13 CAVITY	R-10, 2 FT.	10 CONTINUOUS OR 13 CAVITY	8	6

NOTES: 1) BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED WITH AN AIR BARRIER AS PER N1102.4.1 OF THE 2018 IRC
2) RECESSED LIGHTING SHALL BE SEALED TO PREVENT LEAKAGE BETWEEN THE CONDITIONED SPACE AND UNCONDITIONED SP

## **CATHEDRAL / VAULTED CEILING** FRAMING AND INSULATION

MINIMUM R-38 INSULATION REQUIRED, SEE DETAIL 14/S-1.2

WHERE THE CEILING IS APPLIED DIRECTLY TO THE BOTTOM OF THE PRAFTERS, A MINIMUM 1" AIR SPACE SHALL BE PROVIDED BETWEEN THE TOP OF THE INSULATION AND THE SHEATHING FOR VENTILATION (R806.3) NOTE: RAFTER SIZES SPECIFIED ON PLANS ARE THE MINIMUM REQUIRED FOR STRUCTURAL PURPOSES ONLY. BULLDER TO VERIFY:

BUILDER TO VERIFY:

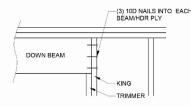
IF FULL RAFTER DEPTH IS NOT ADEQUATE FOR MINIMUM INSULATION VALUE, RAFTER SIZES WILL NEED TO BE INCREASED,
OR ADEQUATE FURRING SHALL BE USED TO OBTAIN THE MINIMUM JOIST DEPTH FOR THE REQUIRED INSULATION. IN
ADDITION, IF THE RAFTER SIZE IS INCREASED IT SHALL BE VERIFIED THAT THE RIDGE BE A MINIMUM OF ONE NOMINAL SIZE
LARGER THAN THE RAFTERS BEING RECEIVED. (SEE CHART BELOW)

MAXIMUM INSULATION VALUE	2x6	2x8	2x10	2x12
1" AIR SPACE (FIBERGLASS)	R-13, 3 1/2"	R-19, 6 1/4"	CONDENSED R-38, 8 1/4"	R-38, 10 1/4"

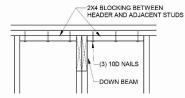
## TABLE N1103.6.1 (R403.6.1) WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)	AIR FLOW RATE MAXIMUM (CFM)
HRV OR ERV	ANY	1.2 CFM/WATT	ANY
RANGE HOODS	ANY	2.8 CFM/WATT	ANY
IN-LINE FAN	ANY	2.8 CFM/WATT	ANY
BATHROOM, UTILITY ROOM	10	1.4 CFM/WATT	< 90
BATHROOM, UTILITY ROOM	90	2.8 CFM/WATT	ANY

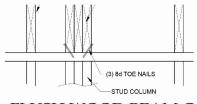
For SI: 1 cubic foot per minute = 28.3 L/min.
a WHEN TESTED IN ACCORDANCE WITH HVLSTANDARD 916.



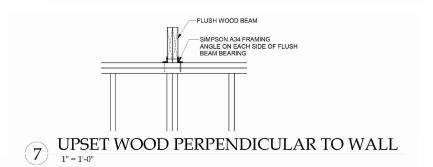
DOWN WOOD BEAM PARALLEL

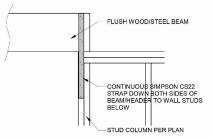


DOWN WOOD BEAM PERPENDICULAR

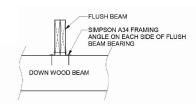


FLUSH WOOD BEAM CONNECTION

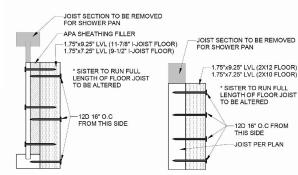




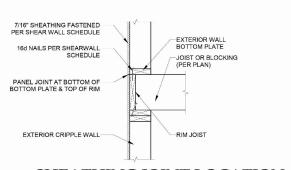
UPSET WOOD/STEEL PARALLEL TO WALL



WOOD TO WOOD STACKED CONNECTION



ZERO ENTRY SHOWER DETAIL



SHEATHING JOINT LOCATION

YURDAER ARCHITECTURE 47th TERR 2012 W.

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GENERAL NOTES **S-4.0**