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Morrison Residence
 Address: 5 Kinsmen Ln, Idaho Falls, Idaho 83404

Structural Notes

Issue Date:
 1/25/2017
S1
 No Scale

GENERAL NOTES:

- VISITS TO THE JOB SITE BY REPRESENTATIVES OF THE ENGINEER DO NOT SUBSTITUTE APPROVAL OF THE WORK PERFORMED BY THE CONTRACTOR OR HIS SUBCONTRACTORS AND ARE MERELY FOR THE PURPOSE OF OBSERVING THE WORK PERFORMED.
- CONTRACTOR SHALL NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN ALL CASES, UNLESS OTHERWISE DIRECTED, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN AND BE PERFORMED.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND ELEVATIONS, ETC., AT THE SITE AND SHALL COORDINATE WORK PERFORMED BY ALL TRADES. DO NOT SCALE DRAWINGS.
- SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER/ARCHITECT PRIOR TO FABRICATION OR ERECTION FOR ANY PREFABRICATED OR MANUFACTURER-DESIGNED COMPONENTS AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THIS STRUCTURE RESIDES.
- SIZES, LOCATIONS, LOADS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO FABRICATION OR INSTALLATION OF SUPPORTING STRUCTURES.
- TEMPORARY BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY, OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE INSTALLED.
- DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOAD.
- CONTRACTOR AND ALL SUBCONTRACTORS SHALL PERFORM THEIR TRADES AND DUTIES IN A MANNER CONFORMING TO THE PROCEDURES AND REQUIREMENTS AS STATED IN THE 2009 INTERNATIONAL RESIDENTIAL CODE, (OR LATEST ACCEPTED CODE ADOPTED BY THE LOCAL BUILDING OFFICIALS).
- ANY SPECIAL INSPECTIONS REQUIRED BY THE BUILDING OFFICIAL OR THE BUILDING CODE ARE THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.

LUMBER NOTES:

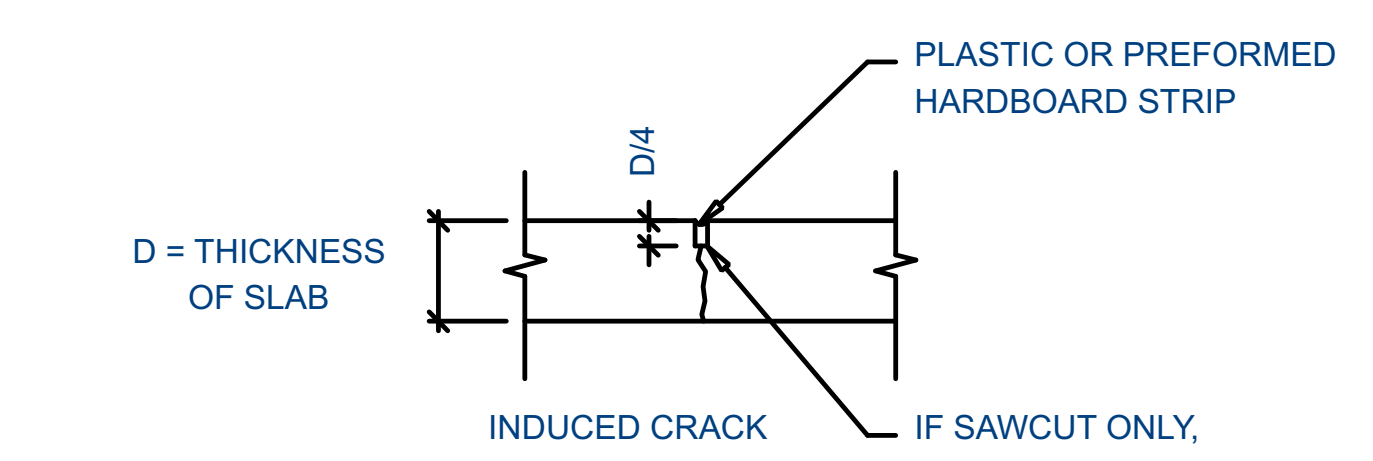
- MEMBER GRADES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 GLU-LAM BEAMS24F-V4 DF/DF
 JOISTSDF/L #2 BTR
 HEADERSDF/L #2 BTR
 POSTDF/L #1 BTR
 STUDS NON-BEARING WALLSDF/L STUD GRADE BTR
 STUDS BEARING WALLSDF/L #2 BTR
 PRE-FAB JOISTSAS PER MANUFACTURER
 SILL PLATES IN CONTACT WITH CONCRETEDF/L #2 PRESSURE TREATED FOR MOISTURE PROTECTION
- WHERE NOT NOTED OTHERWISE, CONNECT ALL WOOD TO CONCRETE, WOOD TO STEEL AND WOOD TO WOOD (EXCEPT STUD TO PLATE) WITH SIMPSON CONNECTORS.
- ALL MULTIPLE PLATES AND LEDGERS SHALL BE NAILED TOGETHER WITH 16d NAILS AT 8" ON CENTER.
- STUD WALLS SHALL RUN CONTINUOUS BETWEEN POINTS OF HORIZONTAL SUPPORT. PROVIDE BRACING WHERE OTHERWISE.
- BLOCK ALL HORIZONTAL EDGES OF PLYWOOD WALL SHEATHING WITH 2" NOMINAL BLOCKING. BLOCK EDGES OF PLYWOOD ON FLOORS AND ROOF AS DIRECTED ON DRAWINGS.
- SOLID 2" NOMINAL BLOCKING SHALL BE PROVIDED AT ENDS OR POINTS OF SUPPORT OF ALL WOOD JOISTS.
- ALL LEDGER BOLTS SHALL HAVE PLATE WASHERS WITH A MINIMUM DIA. EQUAL TO 3 TIMES THE BOLT DIA. UNLESS SHOWN OTHERWISE IN DETAILS.
- MINIMUM NAILING SHALL BE AS PER IRC.
- FASTENERS SUCH AS STAPLES, CAN ONLY BE SUBSTITUTED FOR NAILS AT A RATE EQUAL TO LOAD VALUES PROVIDED BY I.C.B.O. APPROVAL. SEE ATTACHED SCHEDULE.
- JOISTS SHALL HAVE BRIDGING, BLOCKING AND NOTCHED BEARING PLATES AS RECOMMENDED BY THE MANUFACTURER WITH A MINIMUM OF ONE ROW OF BRACING AT MID SPAN. MANUFACTURER SHALL SUPPLY AND CONTRACTOR SHALL INSTALL.

FOOTINGS, FOUNDATIONS, AND SLAB ON GRADE NOTES:

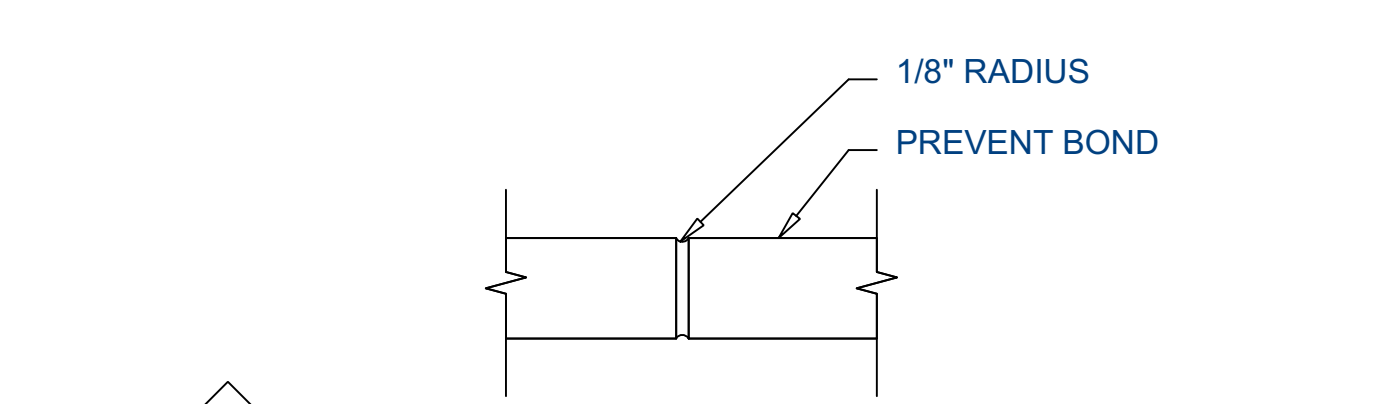
- ALL FOOTING SIZES ARE BASED ON AN ASSUMED SOIL BEARING PRESSURE OF 1500 PSF. ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THOSE USED FOR DESIGN OF FOOTINGS AS OUTLINED IN WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR ENGINEERED GRANULAR FILL COMPACTED TO 95% OF MAX. DENSITY, BASED ON ASTM D 1557 METHOD OF COMPACTION. FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX IN. IN DEPTH AFTER COMPACTION AND SHALL EXTEND DOWN TO IN-SITU SOILS. FILL SHALL BE COMPACTED UNDER ALL CONCRETE WORK ON THE SITE.
- NO FOOTINGS SHALL BE PLACED IN WATER, SNOW, FROZEN GROUND, OR UNSTABLE SOILS.
- ALL EXCAVATIONS ADJACENT TO AND BELOW FOOTING ELEVATION FOR OTHER TRADES SHALL BE ACCOMPLISHED PRIOR TO POURING ANY FOOTINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LATERALLY SUPPORTING ALL RETAINING TYPE FOUNDATION WALLS WHILE COMPACTING BEHIND WALLS AND UNTIL ALL SUPPORTING MEMBERS HAVE BEEN PLACED (SUCH AS FLOOR SLABS). ALL OPEN EXCAVATIONS AND TRENCHES SHALL BE SUPPORTED AND BARRICADED BY CONTRACTOR TO CONFORM WITH OSHA SAFETY STANDARDS.
- ALL REINFORCEMENTS SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE.
- PROVIDE DOWELS IN FOOTING AND FOUNDATIONS TO MATCH ALL VERTICAL BARS IN WALLS AND COLUMNS ABOVE, UNLESS NOTED OTHERWISE.
- PROVIDE CONTROL JOINTS (SEE TYPICAL DETAILS) IN SLABS AT A MAX. OF 10 FT. o.c. EACH WAY AND AS SHOWN ON PLANS. POUR SLABS BETWEEN CONTROL JOINTS, SO THAT ADJACENT POURS ARE STAGGERED AT LEAST TWO DAYS APART. SHORTLY AFTER SLABS ARE POURED, MAKE SAW-CUT JOINTS AT A MAX. OF 10 FT. o.c. BETWEEN POUR CONTROL JOINTS.

CONCRETE NOTES:

- ALL COLUMNS AND WALLS AND ALL EXTERIOR FLATWORK, CURBS, GUTTERS, ETC., SHALL BE NORMAL WEIGHT CONCRETE WITH A COMPRESSIVE STRENGTH EQUAL TO AT LEAST 4,500 LBS. PER SQUARE INCH WITHIN 28 DAYS AFTER POURING. THE WATER/CEMENT RATIO SHALL BE NO GREATER THAN 0.44 AND SLUMP SHALL BE 3" OR LESS. MINIMUM CEMENT CONTENT SHALL BE 564 LBS. PER CUBIC YARD.
- ALL FOOTINGS, FOUNDATIONS, AND INTERIOR SLABS ON GRADE SHALL BE NORMAL WEIGHT CONCRETE WITH A COMPRESSIVE STRENGTH EQUAL TO AT LEAST 3,000 LBS. PER SQUARE INCH WITHIN 28 DAYS AFTER POURING. THE WATER/CEMENT RATIO SHALL BE NO GREATER THAN 0.50 AND SLUMP SHALL BE 3" OR LESS. MINIMUM CEMENT CONTENT SHALL BE 470 LBS. PER CUBIC YARD.
- UNLESS OTHERWISE NOTED, ALL CONSTRUCTION JOINTS SHALL BE KEYED WITH A KEY 1-1/2" DEEP, A LENGTH 2" LESS THAN THE MEMBER, AND A WIDTH 1/2 OF THE MEMBER. REINFORCING SHALL BE CONTINUOUS THRU JOINT.
- ALL METAL REINFORCEMENT SHALL BE DEFORMED TYPE BARS AND SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS A.S.T.M. A615 GRADE 60. BEAM AND COLUMN TIE REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATION A.S.T.M. A615 GRADE 60.
- ALL SPLICES IN CONTINUOUS CONCRETE REINFORCING BARS SHALL LAP 40 BAR DIAMETERS. ALL SUCH SPLICES SHALL BE MADE IN A REGION OF COMPRESSION UNLESS OTHERWISE SHOWN.
- ALL REINFORCEMENT BARS SHALL BE SECURELY ANCHORED AND SHALL BE SPACED FROM THE FORMS (UNLESS SHOWN OTHERWISE) AS FOLLOWS: 2" IN BEAMS AND COLUMNS, 1" IN PROTECTED WALLS AND SUSPENDED SLABS, 2" IN UNPROTECTED WALLS, AND 3" ABOVE BOTTOM AND SIDES OF FOOTINGS.
- ALL OPENINGS IN CONCRETE WALLS SHALL BE REINFORCED WITH 2 #5 BARS EXTENDING 20" MIN BEYOND THE EDGE OF THE OPENING AT EACH FACE OF OPENING.
- ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.
- BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO INSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL SHORING AND FORMWORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENT, CLIPS OR GROUNDS, REQUIRED TO BE ENCASED IN CONCRETE AND FLOOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND SHALL HAVE A MINIMUM SIDE LAP OF 8 IN.
- ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315-95 AND ACI STANDARD 318-95.
- FOR STEPS IN FOUNDATION GREATER THAN 2 FEET, WRAP CORNER W/2- #4 BARS EXTENDING 18" EACH DIRECTION.

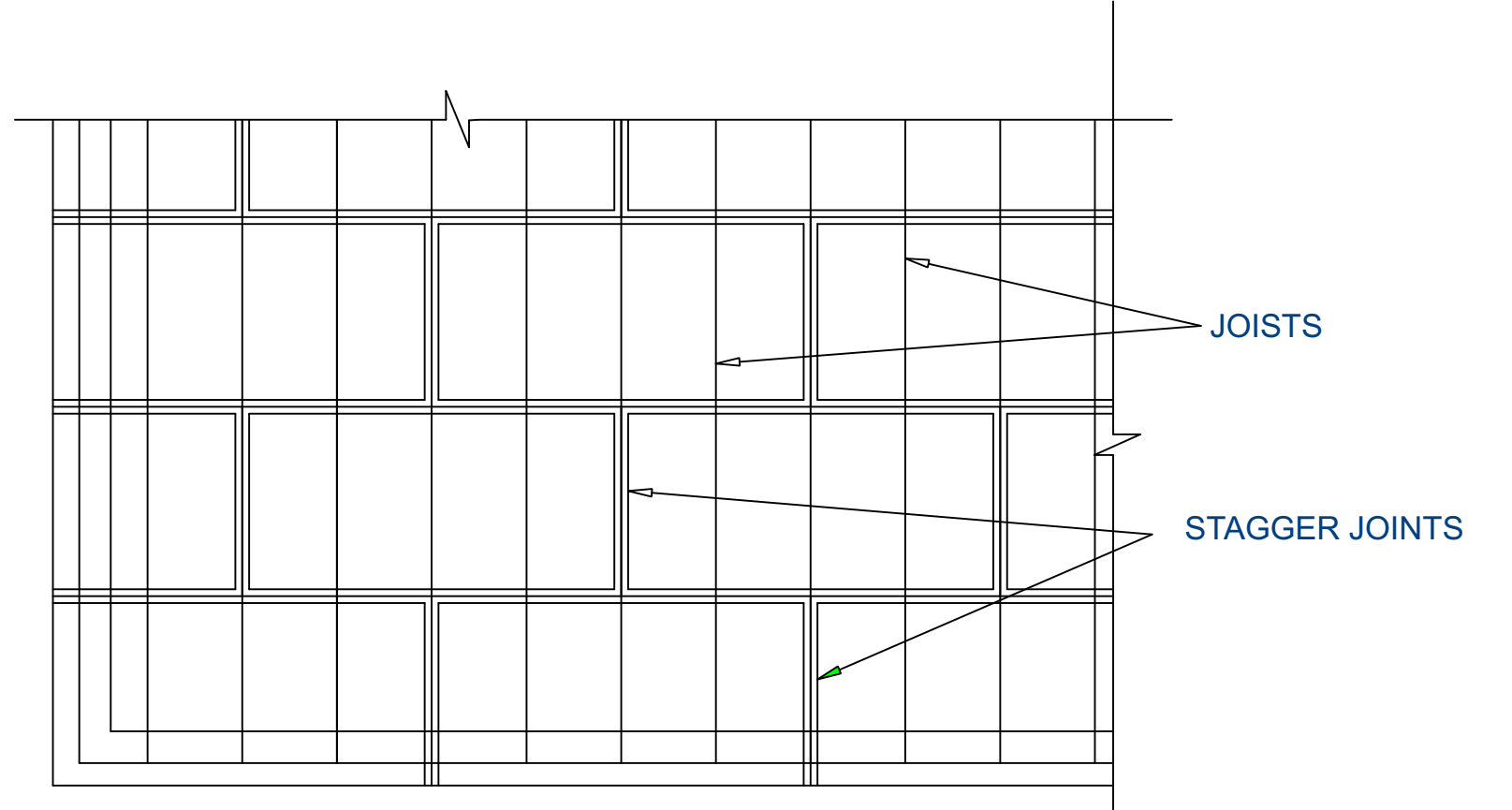


SAWED OR PREMOLDED CONTRACTION JOINT
 SCALE: NONE

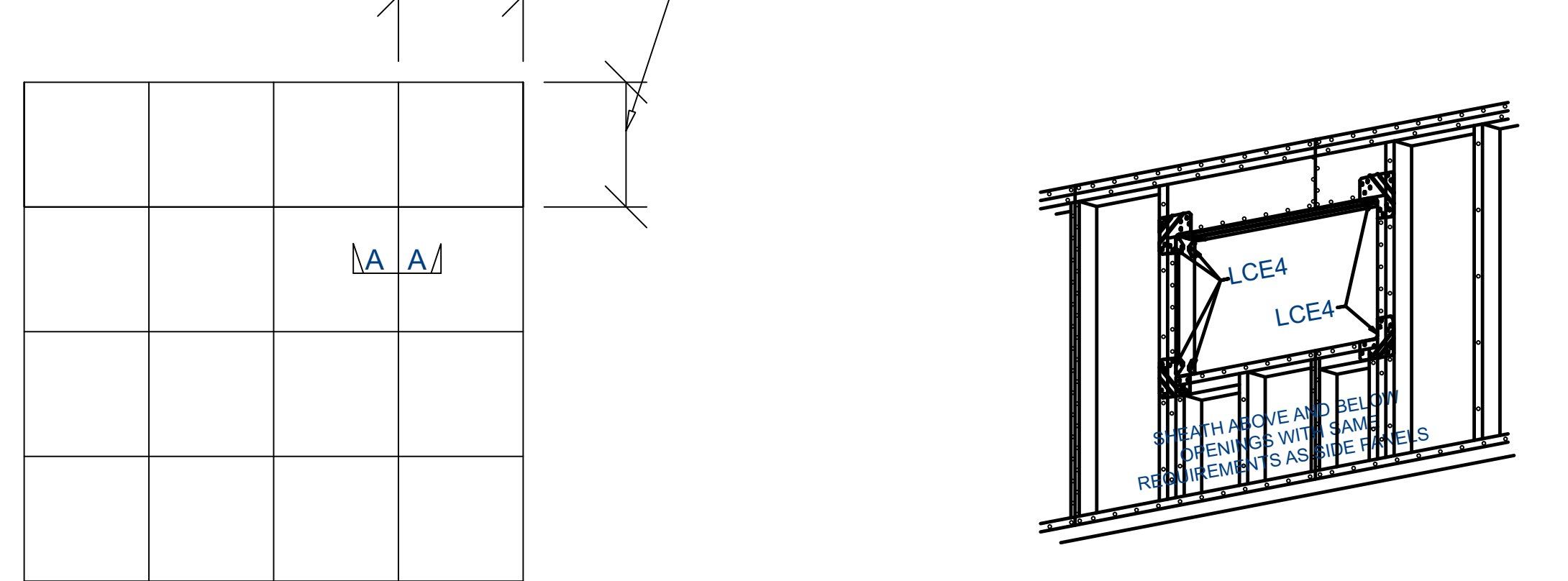


BUTT JOINT CONSTRUCTION JOINT
 SCALE: NONE

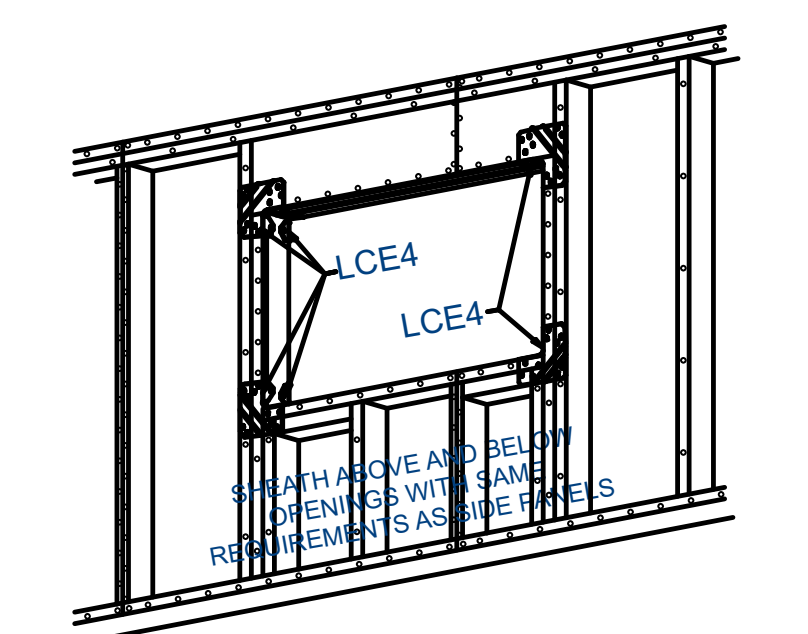
10' MAX. BETWEEN BUTT JOINT OR SAW OR PREMOLDED CONTRACTION JOINT.



HORIZONTAL SHEATHING LAYOUT



SLAB ON GRADE CONTROL JOINTS



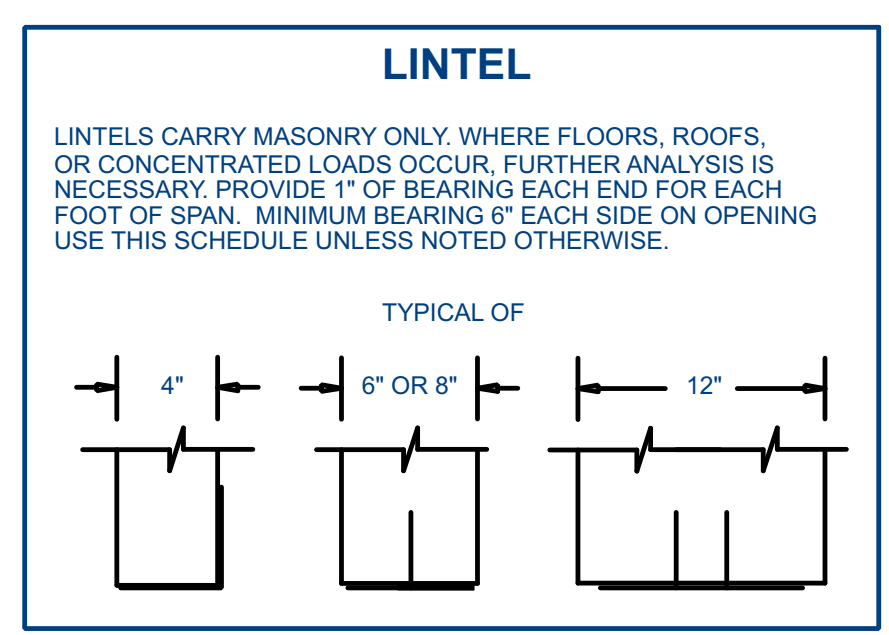
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MINIMUM NAILING SCHEDULE	
"CONNECTION"	"NAILING"
1. JOIST TO SILL GIRDER, TOENAIL	3-8d
2. BRIDGING TO JOIST, TOENAIL EA. END	2-8d
3. SOLE PLATE TO JOIST OR BLOCKING	Face Nail 16d @ 16" OC
4. TOP PLATE TO STUD, END NAIL	2-16d
5. STUD TO SOLE PLATE	4-8d TOENAIL, 2-16d END NAIL
6. DOUBLE STUDS, FACE NAIL	16d @ 24" OC
7. DOUBLE TOP PLATES, FACE NAIL	16d @ 16" OC
8. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
9. CONTINUOUS HEADERS TWO PIECES, ALONG EA. EDGE	16d @ 16" OC
10. CEILING JOISTS TO PLATE, TOENAIL	3-8d
11. CONTINUOUS HEADERS TO STUD, TOENAIL	4-8d
12. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-16d
13. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3-16d
14. RAFTER TO PLATE, TOENAIL	3-8d
15. BUILT-UP CORNER STUDS	16d @ 24" OC
16. BUILT-UP GIRDER AND BEAMS	20d @ 32" OC T/B STAGGERED 2-20d @ ENDS & SPLICES

TABLE OF EQUIVALENT FASTENERS					
STAPLES, NAILS AND T-NAILS					
(VALID FOR LATERAL LOAD ONLY)					
COMMON NAIL SPACING	EQUIV. SPACING OF APPR. FASTENERS				
	STAPLES	NAILS/T-NAILS			
GAUGE	16	15	14	113	131
6d AT	4"	3 1/2"	4"	5"	4"
	6"	5"	6"	7"	6"
	8"	6 1/2"	8"	9 1/2"	8"
	10"	8 1/2"	10"	12"	10"
8d AT	4"	2 1/2"	3 1/2"	4"	3 1/2"
	6"	4"	5"	6"	5"
	8"	5 1/2"	6 1/2"	8"	6 1/2"
	10"	6 1/2"	8"	10"	8"
10d AT	4"	2"	2 1/2"	3"	2 1/2"
	6"	3 1/2"	4"	5"	4"
	8"	4 1/2"	5 1/2"	6 1/2"	5 1/2"
	10"	5 1/2"	7"	8"	6 1/2"
12"	6 1/2"	8"	9 1/2"	8 1/2"	10"

NOTE: PENETRATION IS THE DEPTH OF EMBEDMENT OF THE STAPLE OR NAIL INTO THE MAIN MEMBER REQUIRED TO ATTAIN ITS FULL CAPACITY (SHEAR VALUE) FOR LATERAL LOADING.

STEEL LINTEL SCHEDULE	
CLEAR OPENING	SIZE ANGLE
UP TO 5'-0"	3 1/2" x 3 1/2" x 1/4"
5'-1" TO 7'-0"	3 1/2" x 3 1/2" x 1/4"
7'-1" TO 9'-0"	5" x 3" x 1/4"
9'-1" TO 10'-0"	5" x 3" x 5/16"
10'-1" TO 11'-0"	5" x 3" x 3/8"
11'-1" TO 12'-0"	6" x 3" x 3/8"
12'-1" AND OVER	ANALYSIS REQ'D.



LINTEL
 LINTELS CARRY MASONRY ONLY. WHERE FLOORS, ROOFS, OR CONCENTRATED LOADS OCCUR, FURTHER ANALYSIS IS NECESSARY. PROVIDE 1" OF BEARING EACH END FOR EACH FOOT OF SPAN. MINIMUM BEARING 6" EACH SIDE ON OPENING USE THIS SCHEDULE UNLESS NOTED OTHERWISE.



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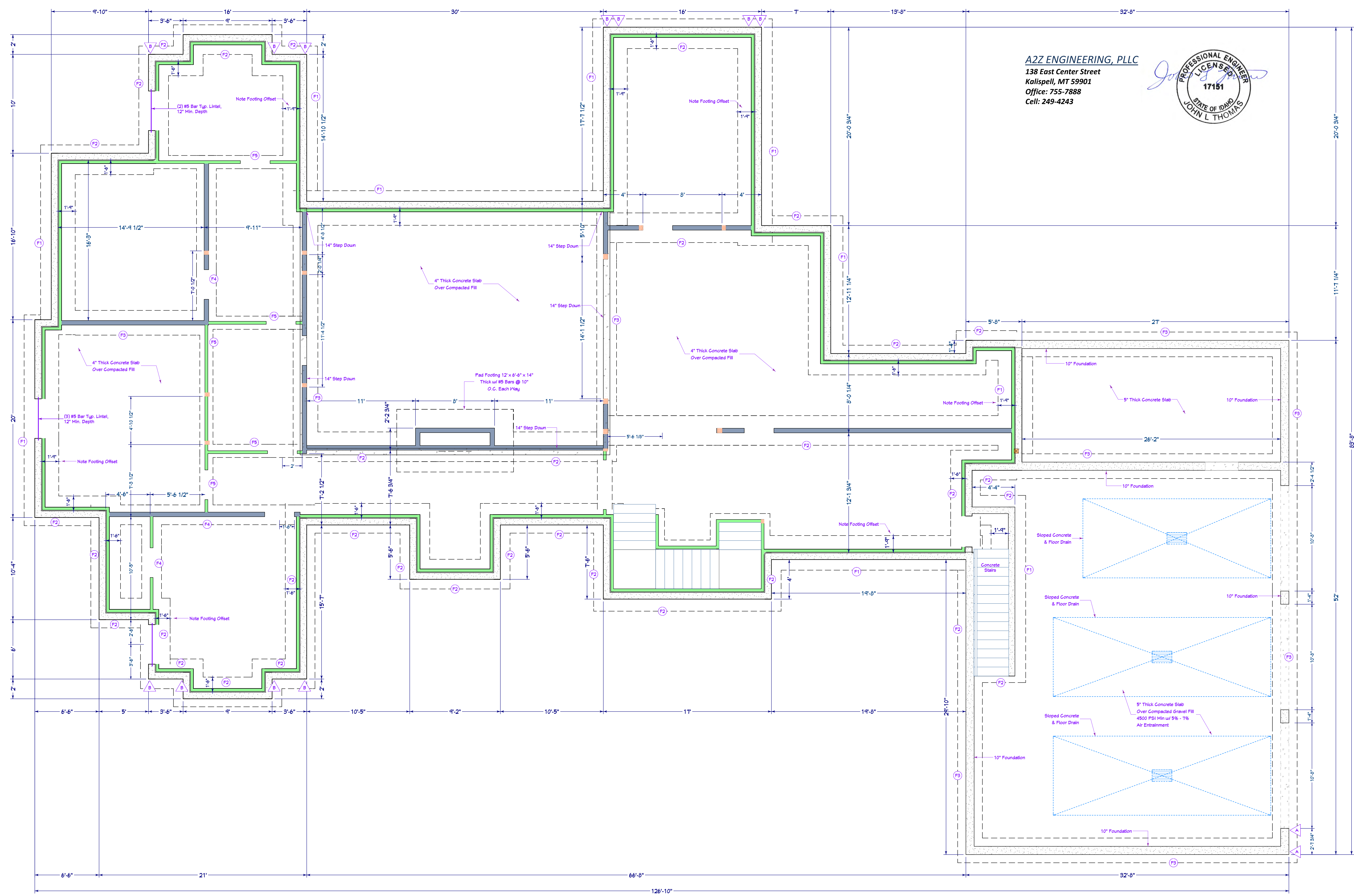
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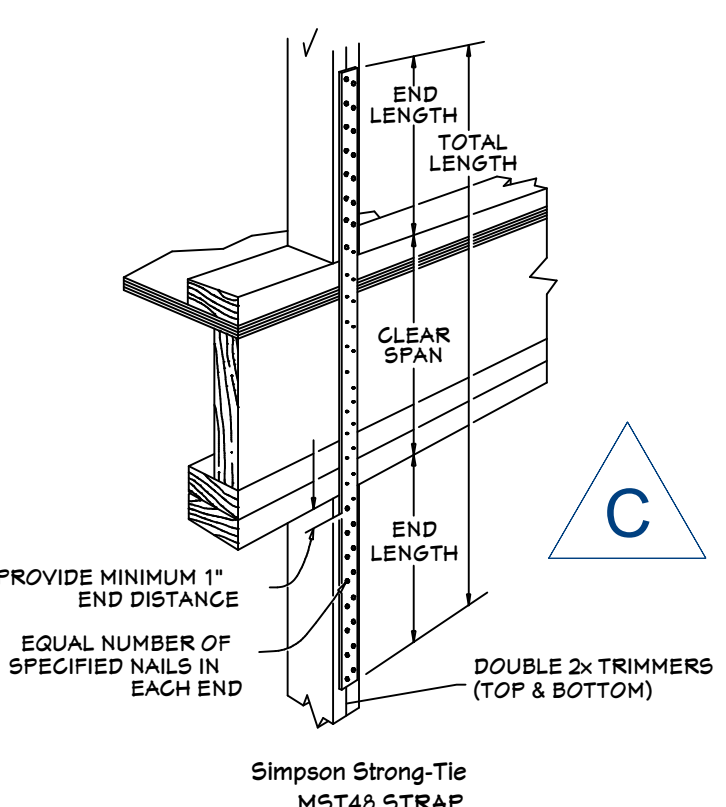
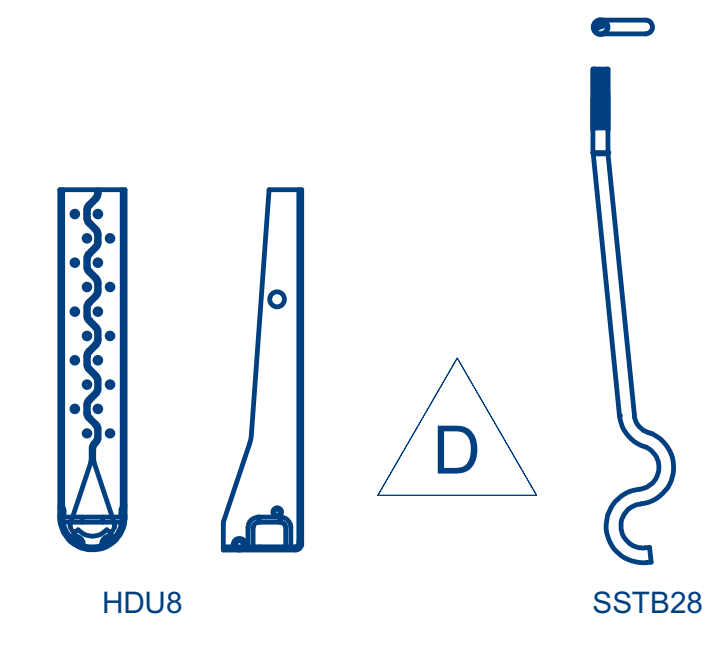
Foundation Plan

Issue Date: 1/25/2017

 No Scale

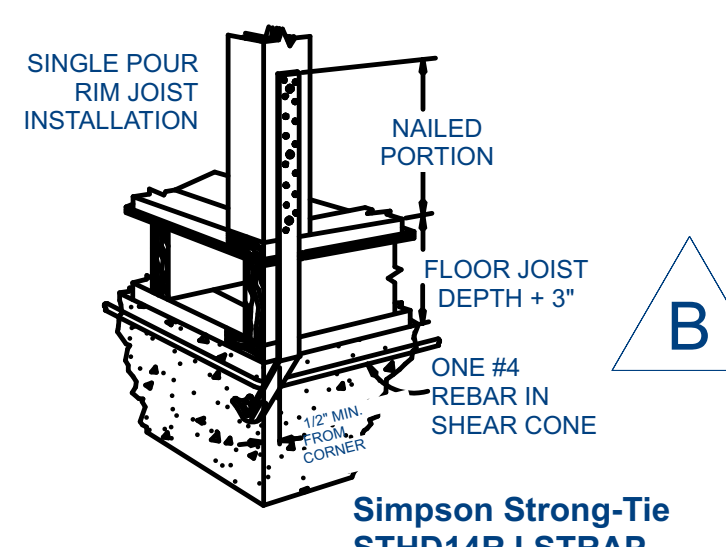
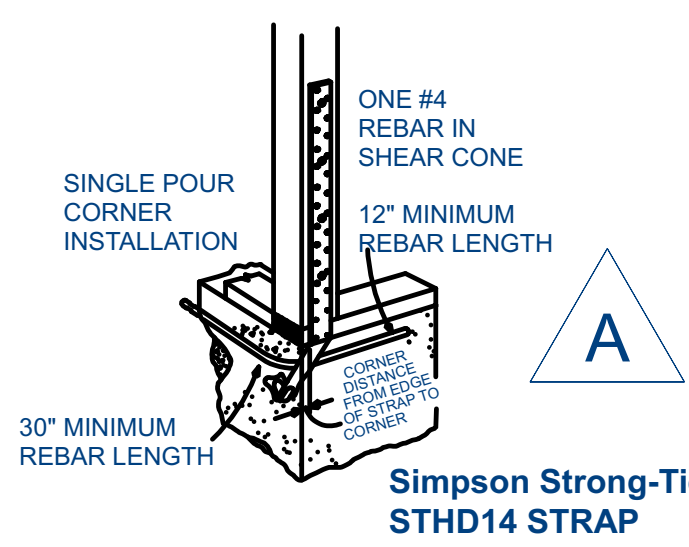


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HOLDDOWN & STRAP SCHEDULE	
Mark	Description
A	Simpson STHD14 Holddown
B	Simpson STHD14RJ Holddown
C	Simpson MST48 Strap
D	Simpson HDU8 w/SSB28

1) ANCHOR ALL HOLDDOWNS THROUGH A MINIMUM OF (2) 2 x STUDS.
 2) THE FOUNDATION CONTRACTOR SHALL PLACE ALL HOLDDOWN STRAPS TO LINE UP WITH A CORNER, WINDOW OR DOOR JAMB STUD IN THE FRAMED WALL DIRECTLY ABOVE.



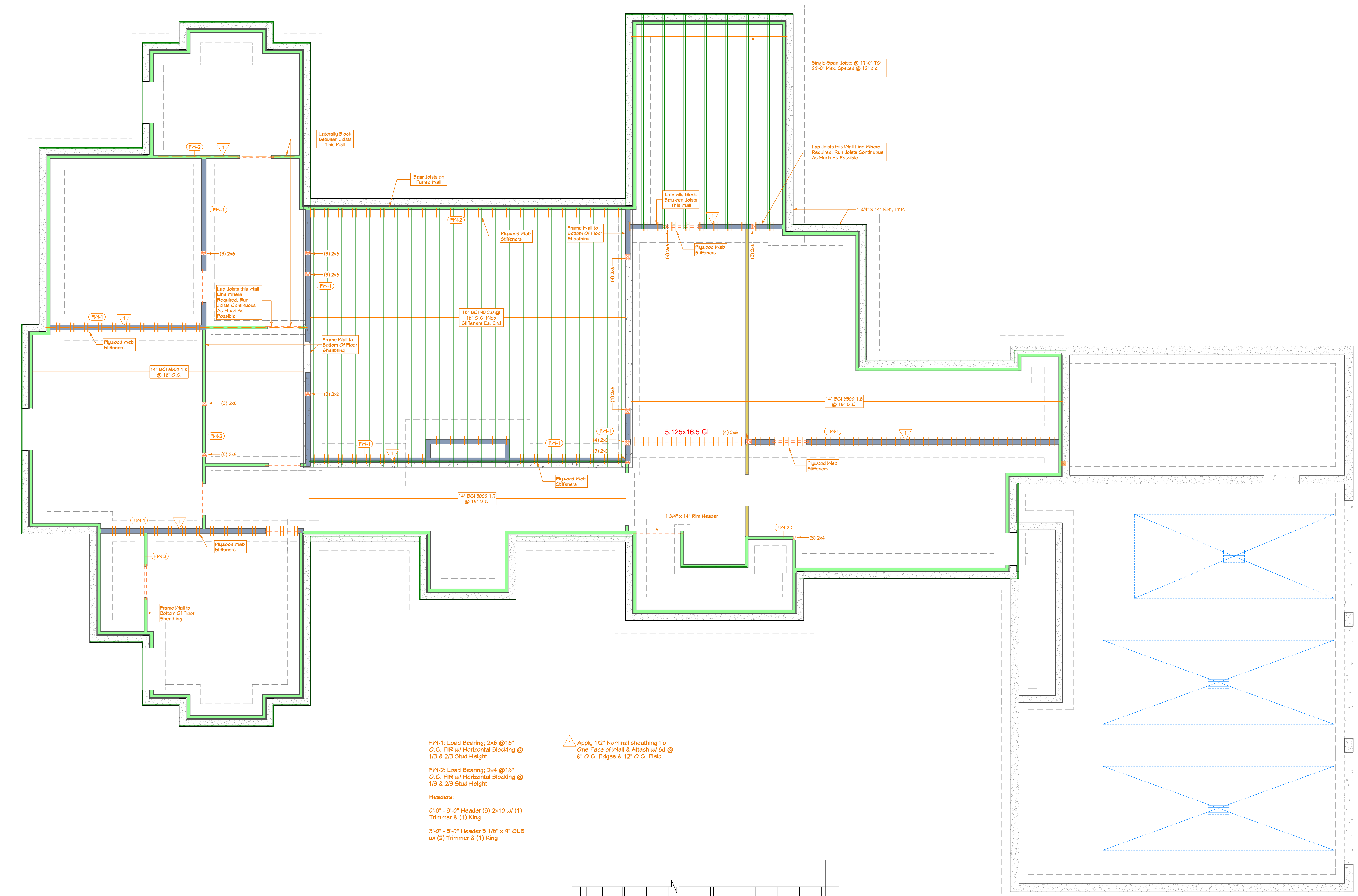
- 6-8 Mil Vapor Barrier Over
 3/4" Gravel & Sealed To
 Foundation Wall, Lap & Seal All
 Seams

FOUNDATION WALLS
 Basement Walls: 8" Thick, #5 Vert. Bars @ 12" O.C., #5 Horz. Bars @ 16" O.C., 3% to 5% Air Entrainment, 3000 PSI Min.
 Frost Walls: 8" or 10" Thick, #4 Vert. Bars @ 16" O.C., #4 Horz. Bars @ 16" O.C., 3% to 5% Air Entrainment, 3000 PSI Min.

Brown Treated Sill Plate On Sill Seal To Foundation w/ 5/8" x 10" L Anchors Within 12" Of Ends & Corners & 48" O.C. Thereafter 3x3x1/4 SQ Washers @ All Bolts

FOOTING SCHEDULE			
Mark	Width	Depth	Remarks
(F1)	3'-6"	12"	W/ (5) #4 Cont. Bars & #4 Transverse Bars @ 16" O.C., Mount 3" Off Bottom of Footing, 3000 PSI Min.
(F2)	3'-0"	12"	W/ (4) #4 Cont. Bars & #4 Transverse Bars @ 16" O.C., Mount 3" Off Bottom of Footing, 3000 PSI Min.
(F3)	2'-6"	12"	W/ (4) #4 Cont. Bars & #4 Transverse Bars @ 16" O.C., Mount 3" Off Bottom of Footing, 3000 PSI Min.
(F4)	2'-0"	12"	W/ (3) #4 Cont. Bars, Mount 3" Off Bottom of Footing, 3000 PSI Min.
(F5)	16"	12"	W/ (2) #4 Cont. Bars, Mount 3" Off Bottom of Footing, 3000 PSI Min.

NOTES:
 1. PLACE ALL FOOTING REINFORCING 3" FROM BOTTOM OF FOOTING WITH 3" CLEAR ON SIDES UNLESS NOTED OTHERWISE
 2. STRUCTURAL FILL UNDER FOOTINGS SHALL CONSIST OF EITHER 1" MINUS GRAVEL OR UNTREATED ROAD BASE AND SHALL BE COMPACTED TO 98% IN 6" MAX LIFTS
 3. FOOTINGS HAVE BEEN DESIGNED USING AN ASSUMED ALLOWABLE BEARING PRESSURE OF 1500 PSF UNLESS NOTED OTHERWISE

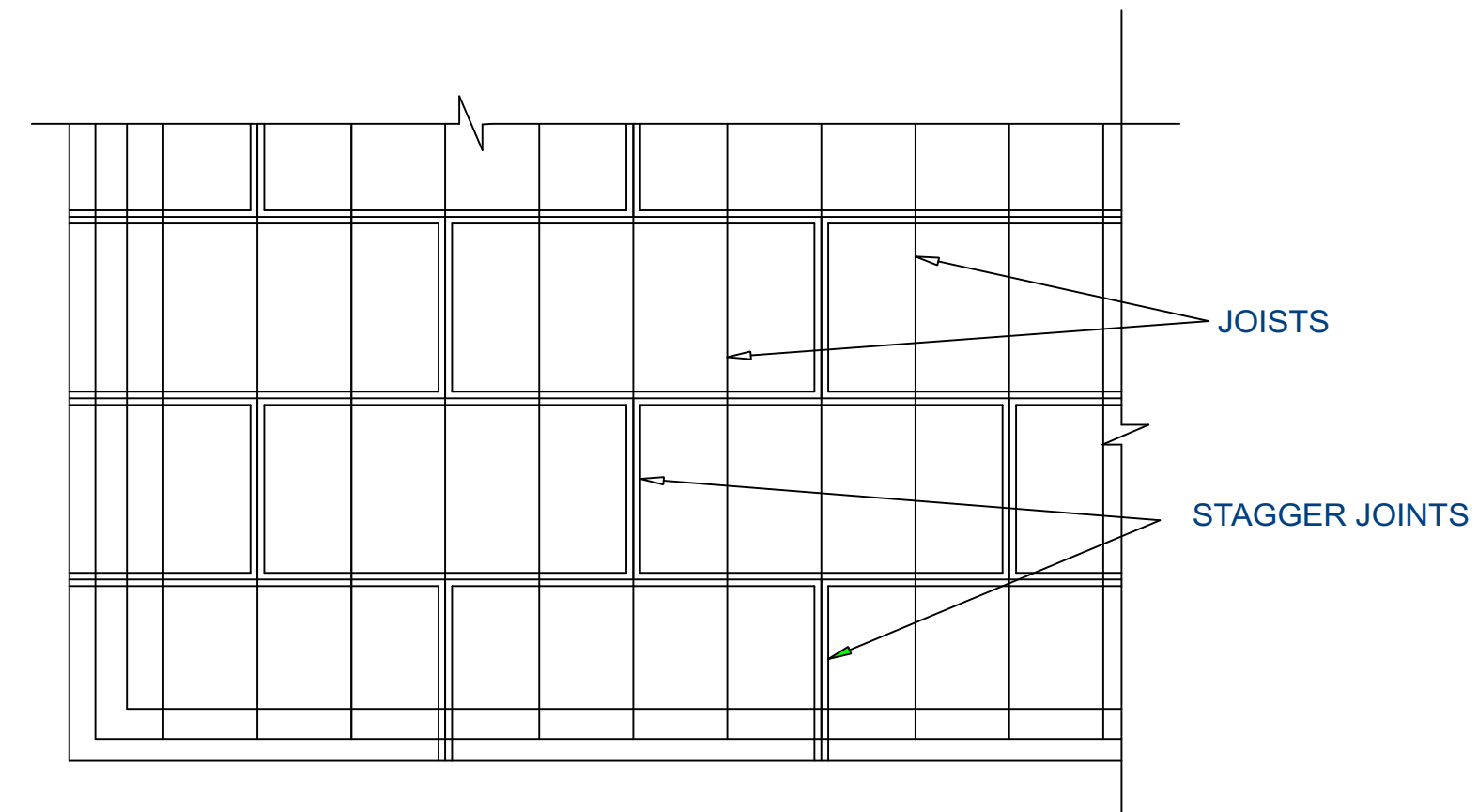


FN-1: Load Bearing; 2x6 @ 16" O.C. FIR w/ Horizontal Blocking @ 1/3 & 2/3 Stud Height
 FN-2: Load Bearing; 2x4 @ 16" O.C. FIR w/ Horizontal Blocking @ 1/3 & 2/3 Stud Height
Headers:
 0'-0" - 3'-0" Header (3) 2x10 w/ (1) Trimmer & (1) King
 3'-0" - 5'-0" Header 5 1/2" x 9" GLB w/ (2) Trimmer & (1) King

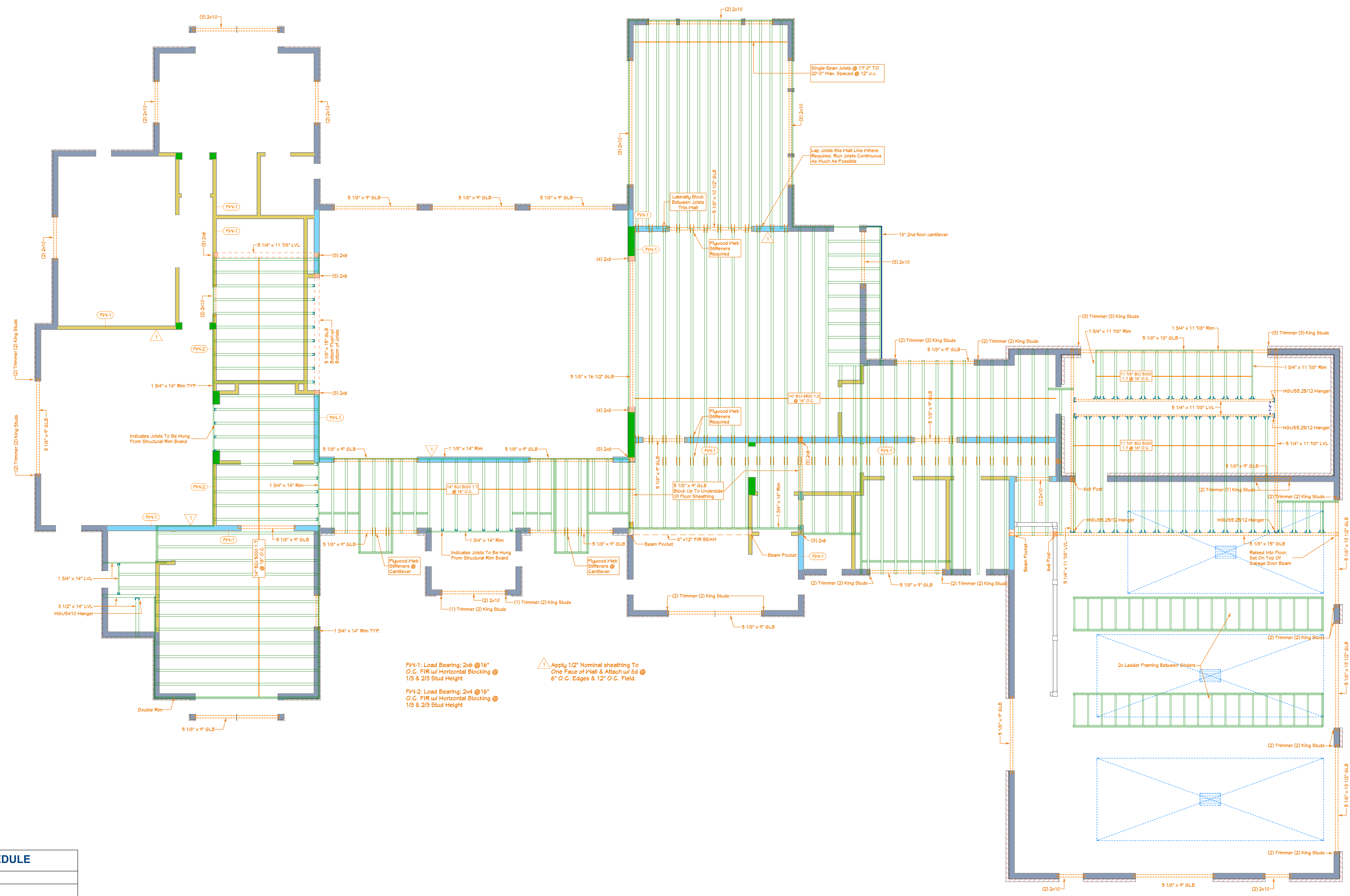
△ Apply 1/2" Nominal sheathing To One Face of Wall & Attach w/ bd @ 6" O.C. Edges & 12" O.C. Field.

1. INSTALL JOIST HANGERS AS PER MANUFACTURE SPECIFICATIONS
2. INSTALL WEB STIFFENERS AS PER MANUF. SPECS.

FLOOR SHEATHING NOTES:
 FLOOR SHEATHING SHALL BE 3/4" T&G WAFFERBOARD GLUED & NAILED WITH 10d NAILS AT 8" OC AT ALL PANEL ENDS, SUPPORTED EDGES AND ALL BLOCKING; 10d AT 12" OC ALONG INTERMEDIATE FRAMING MEMBERS. GLUE WITH GLUE CONFORMING TO AFG-G1 ACCORDING TO APA SPECIFICATIONS.
 BLOCK JOISTS SOLID AT ALL BEARING POINTS.
 PROVIDE SQUASH BLOCKING AT ALL POINT LOADS THROUGH FLOOR



HORIZONTAL SHEATHING LAYOUT



HEADER & BEAM SCHEDULE

Mark	Description
H1	(2) 2x10 DF/L #2, (2) Trimmer, (1) King, 2x6
H2	(2) 2x8 DF/L #2, (1) Trimmer, (1) King, 2x6
H3	GLB: 5-1/2" x 12" 24F-V4, Per Detail
H4	(3) 2x10 DF/L Select Struc, (2) 2x6 Trimmer, (2) 2x6 King, Nail Laminater Can Sub Trimmer & King For Timber Column Note: Where Headers Hit 8x8 Timber Post A Simpson HUCQ210-3SOS May Be Used In Lieu of King & Trimmer Studs, Timber Post Must Be Carried Through Floor & Terminate on Simpson CBSQ88-SOS22 (Wet Set)
H5	(2) 2x10 DF/L #2, (1) 2x6 Trimmer, (1) 2x6 King
H6	GLB: 3-1/8" x 12" 24F-V4, (2) 2x6 Trimmer, (1) 2x6 King
BM1	6x12 DF/L #2 Timber (up-sized to 10x12, see arch.) Okay to Bevel Cut Top For Purlin, Solid Pack Trimmers For Uplift, Note: Toe Screw 2x8 Purlins to BM1 Using (2) .188x6" SDWH Screws in an "X" Pattern For Uplift

STUD HEIGHT CHART FOR ALL STUD'S U.N.O.

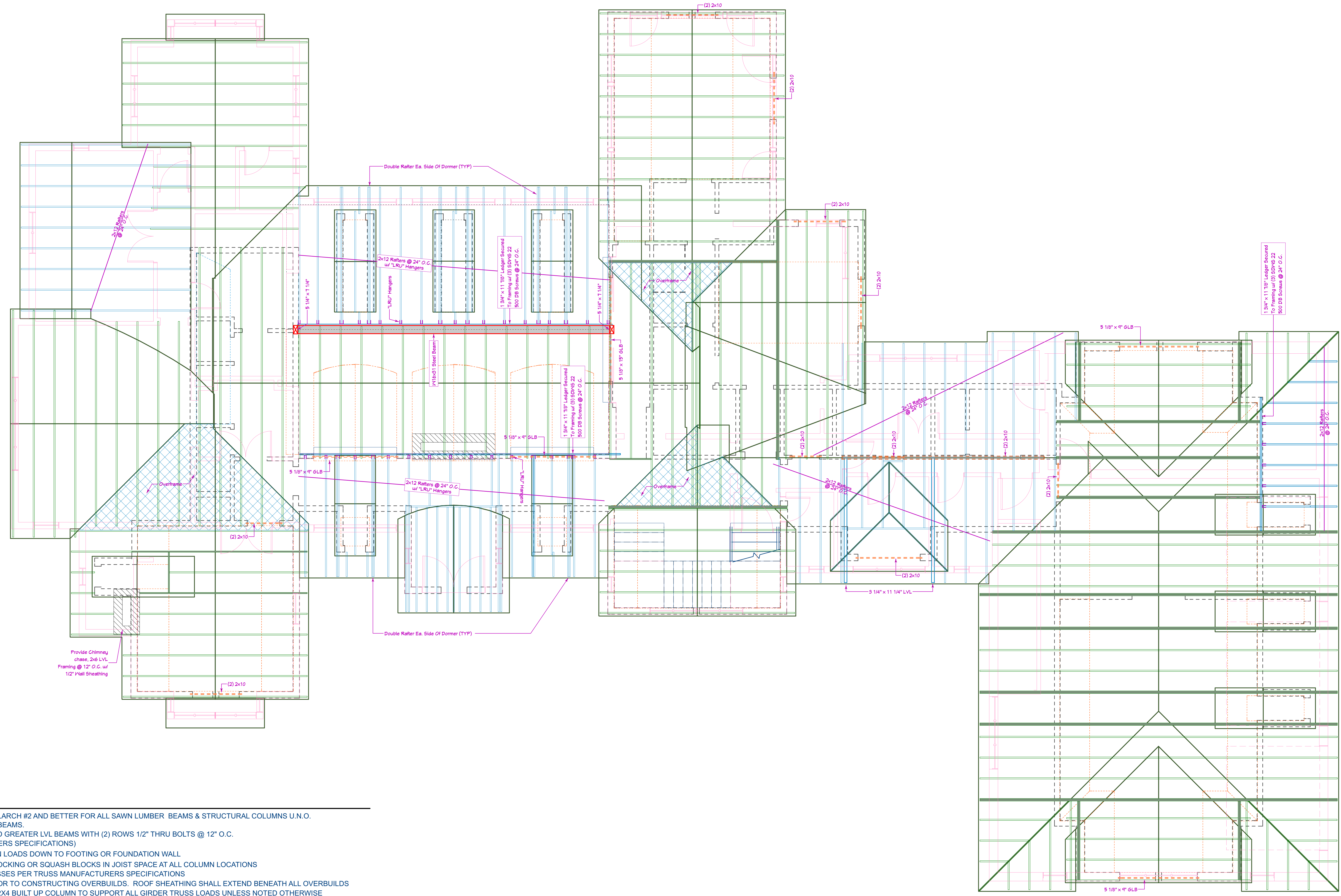
STUDS	SPACING	MAX. HEIGHT
2x4	16" O.C.	10'-0"
2x4	12" O.C.	11'-6"
2x6	12" O.C.	14'-0"
5 1/2" LVL 2x6 T.S.	16" O.C.	18'-0"
5 1/2" LVL 2x6 T.S.	12" O.C.	20'-0"

T.S. = TIMBERSTRAND

- 6-8 Mil Vapor Barrier Over Pea Gravel & Sealed To Foundation Wall, Lap & Seal All Seams

PK-1: Load Bearing: 2x6 @ 16" O.C. FIR w/ Horizontal Blocking @ 1/3 & 2/3 Stud Height
 PK-2: Load Bearing: 2x4 @ 16" O.C. FIR w/ Horizontal Blocking @ 1/3 & 2/3 Stud Height

Apply 1/2" Nominal sheathing To One Face of Wall & Attach w/ Bd @ 6" O.C. Edges & 12" O.C. Field.



- NOTES:**
1. USE DOUGLAS FIR-LARCH #2 AND BETTER FOR ALL SAWN LUMBER BEAMS & STRUCTURAL COLUMNS U.N.O.
 2. USE 1.9E (MIN) LVL BEAMS.
 3. CONNECT 4 PLY AND GREATER LVL BEAMS WITH (2) ROWS 1/2" THRU BOLTS @ 12" O.C. (SEE MANUFACTURERS SPECIFICATIONS)
 4. CARRY ALL COLUMN LOADS DOWN TO FOOTING OR FOUNDATION WALL
 5. PROVIDE SOLID BLOCKING OR SQUASH BLOCKS IN JOIST SPACE AT ALL COLUMN LOCATIONS
 6. CONNECT ALL TRUSSES PER TRUSS MANUFACTURERS SPECIFICATIONS
 7. SHEATH ROOF PRIOR TO CONSTRUCTING OVERBUILDS. ROOF SHEATHING SHALL EXTEND BENEATH ALL OVERBUILDS
 8. PROVIDE (MIN) (3) 2X4 BUILT UP COLUMN TO SUPPORT ALL GIRDER TRUSS LOADS UNLESS NOTED OTHERWISE
 9. USE MIN. 2x6 OVERBUILD RAFTERS @ 24" O.C. - DO NOT SPAN RAFTERS MORE THAN 5'-0" AT OVERBUILDS.

DESIGN CRITERIA:

GOVERNING CODE	2009 IBC
SEISMIC MAPPED ACCELERATION	1 = 1.00 R = 6 Sds = 0.456g
BASIC WIND SPEED	115 MPH EXPOSURE B
Ground Snow Load	1 = 1.00 25 PSF
DEAD LOAD	15 PSF
LIVE LOAD	20 PSF
DEAD LOAD	25 PSF
LIVE LOAD	40 PSF
SOIL BEARING PRESSURE	1500 PSF (ASSUMED)

*** STANDARD OCCUPANCY ***

- ROOF SHEATHING NOTES:**
1. ROOF SHEATHING SHALL BE 5/8" APA RATED SHEATHING W/SPAN RATING OF 32/16 NAILED WITH 8d NAILS AT 6" O.C. AT ALL PANEL ENDS, SUPPORTED EDGES, TOP OF SHEAR WALLS AND ALL BLOCKING; 8d NAILS AT 12" O.C. ALONG INTERMEDIATE FRAMING MEMBERS. PROVIDE 1/8" GAP BETWEEN ALL PANELS.
 2. BLOCK JOISTS SOLID AT ALL BEARING POINTS.

- ROOF TRUSS NOTES:**
1. TRUSSES SHALL BE DESIGNED FOR 25 PSF LIVE LOAD.
 2. DESIGN TRUSSES TO LIMIT DEFLECTION TO SPAN (IN.) DIVIDED BY 240.
 3. CHECK DIMENSIONS WITH ARCH. DRAWINGS. TRUSS MANUFACTURER IS RESPONSIBLE TO PROVIDE WEB AND CHORD MEMBERS TO SATISFY LOAD REQUIREMENTS.
 4. TRUSS MANUFACTURER SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL BY ENGINEER.

USE (2) ply 9-1/2" M.L. Door & Window Headers as The Builder preferred Option (no 2x10 headers)

(Information Use Only, Engineering and Design by Truss MFG)

Truss Package to be approved by the Building Engineer

