

GOMP ROOF ROOF & SOFFIT WENTS PER CODE

## FRONT ELEVATION SCALE: 1/4" = 1'-0"

Residential Area:

Residential, Living Area Residential, Un-Finished basements



BACK ELEVATION

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

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 12/03/2020

LSMO

SIDING

4/8 GUN NAILS

KENNETH SIDOROWICZ NUMBER E - 199**86** 

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SET

MODEL:

DATE:

617 SE 6TH ST.

64063

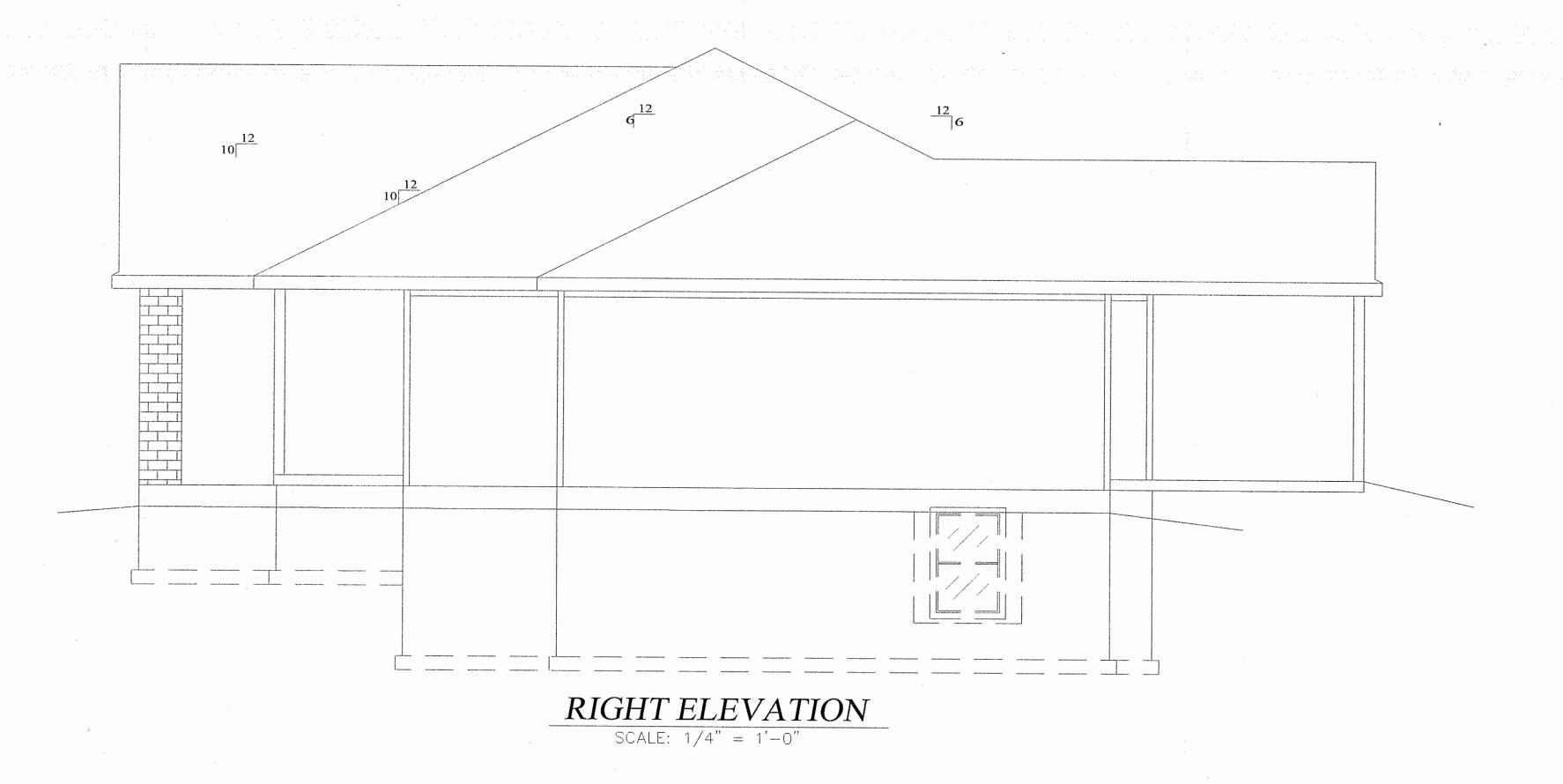
LEE'S SUMMIT MO

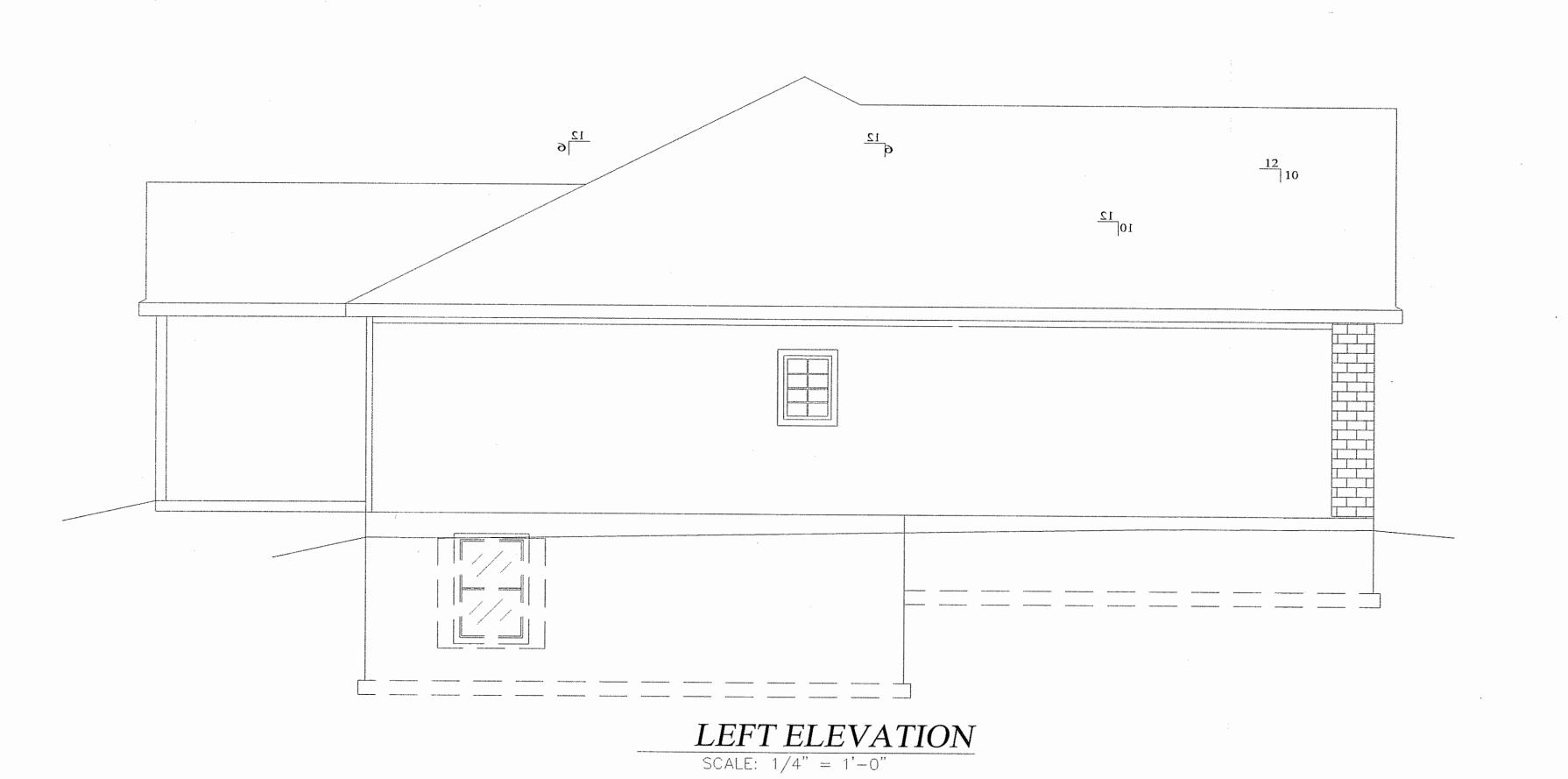
ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL ELEMENTS OF THESE PLANS. A STRUCTURAL ENGINEER MAY NEED TO VERIFY ALL STRUCTURAL ASPECTS OF THESE PRINTS BEFORE

CONSTRUCTION BEGINS. FIELD

CONDITIONS MAY BE DIFFERENT

FROM PLAN. ALL STATE AND LOCAL CODES TAKE PRECIDENCE OVER THESE PLANS. CONTRACTOR WILL BE RESPONSIBLE FOR PLAN INTEGRITY AND CODE COMPLIANCE





DESCRIPTION:
ELEVATIONS

MODEL:

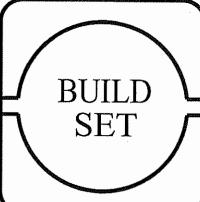
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DATE:

8-30-20 617 SE 6TH ST.

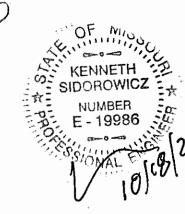
LEE'S SUMMIT MC 64063

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LSMO

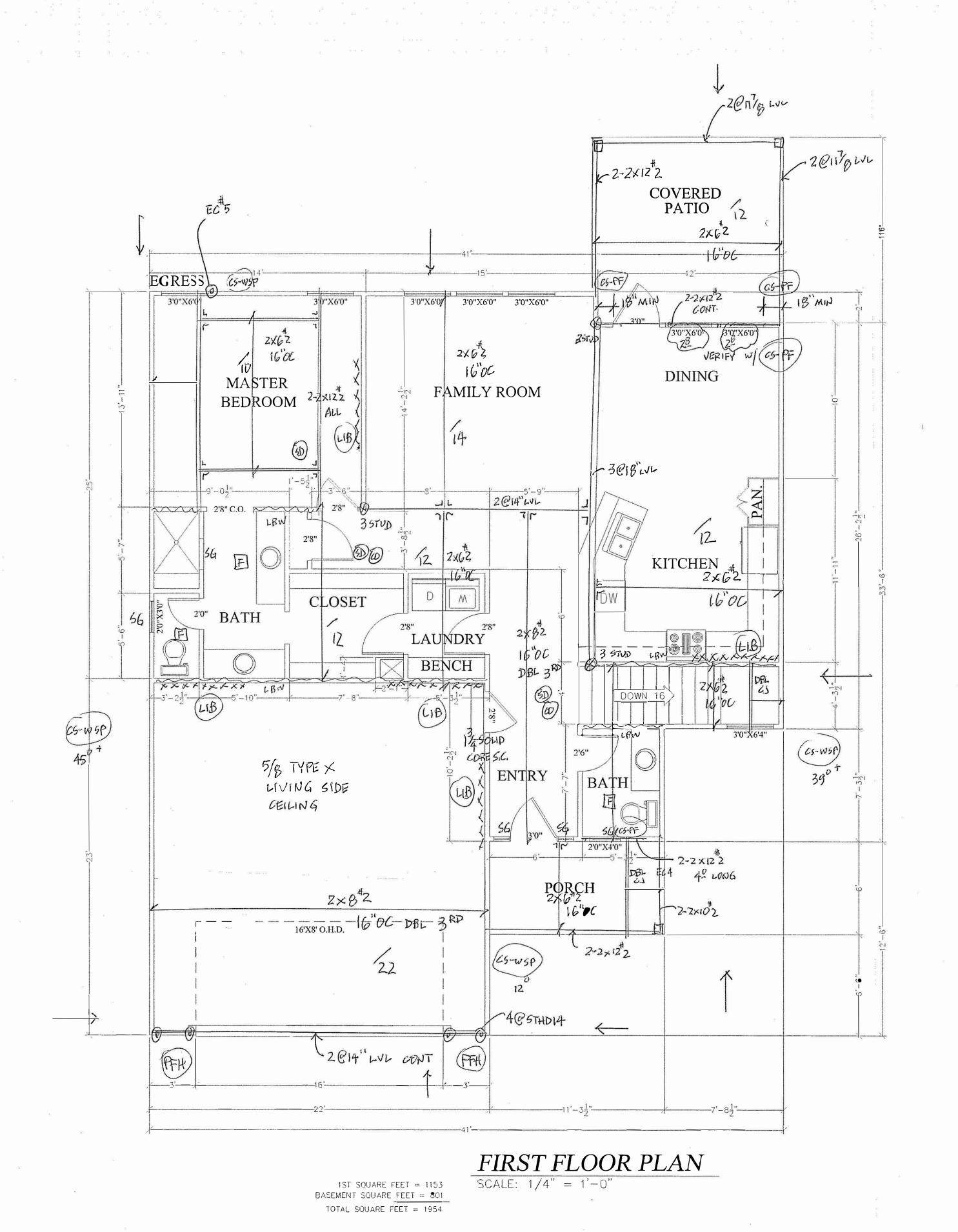
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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



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 $\begin{bmatrix} 2 & of & 5 \end{bmatrix}$ 

SHEET NO:



2 @ A35, 1 each Hdr.--

HOUSE IS SHEATHED W/ 18" OSB APA PANELS, SMART PANEL OR EQUAL, INSTALLED PER MANU. SPECS, SHIP LAPPED PANELS REQUIRE NAILING OF OVER AND UNDER PANELS SEPARATELY.

SIDING LAPS RIM 2x4, 9' PLATE, FULL HT. STUDS S.C. = SELF CLOSING D2 GN #25 FOR WINDOWS CS = CONTINUOUSLY SHEATHED EC == END CONDITION SEE D2 FOR INSULATION VALUES EC#5, 16" LONG CS16 STRAP, CENTERED ON SUBFLOOR, FILL ALL NAIL HOLES.

MODEL:

DESCRIPTION:

PL

**FIRST** 

DATE:

617 SE 6TH ST. LEE'S SUMMIT MO 64063

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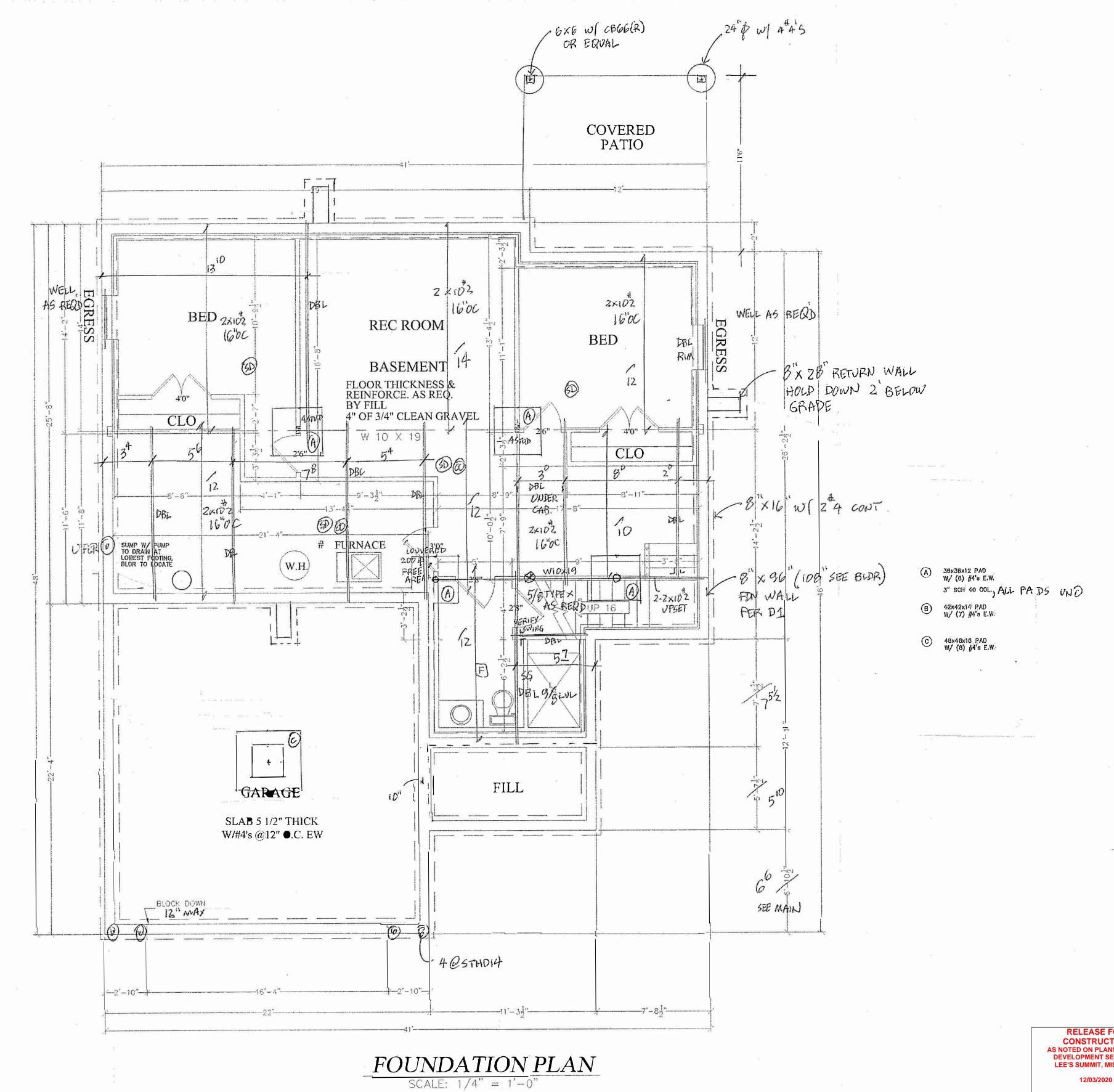
BUILD SET

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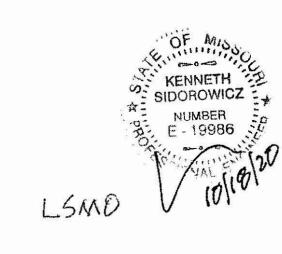
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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



BASEMENT SQUARE FEET = 801

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DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



FOUNDATION PLAN BASEMENT FRAMING DESCRIPTION: MODEL: DATE:

617 SE 6TH ST.

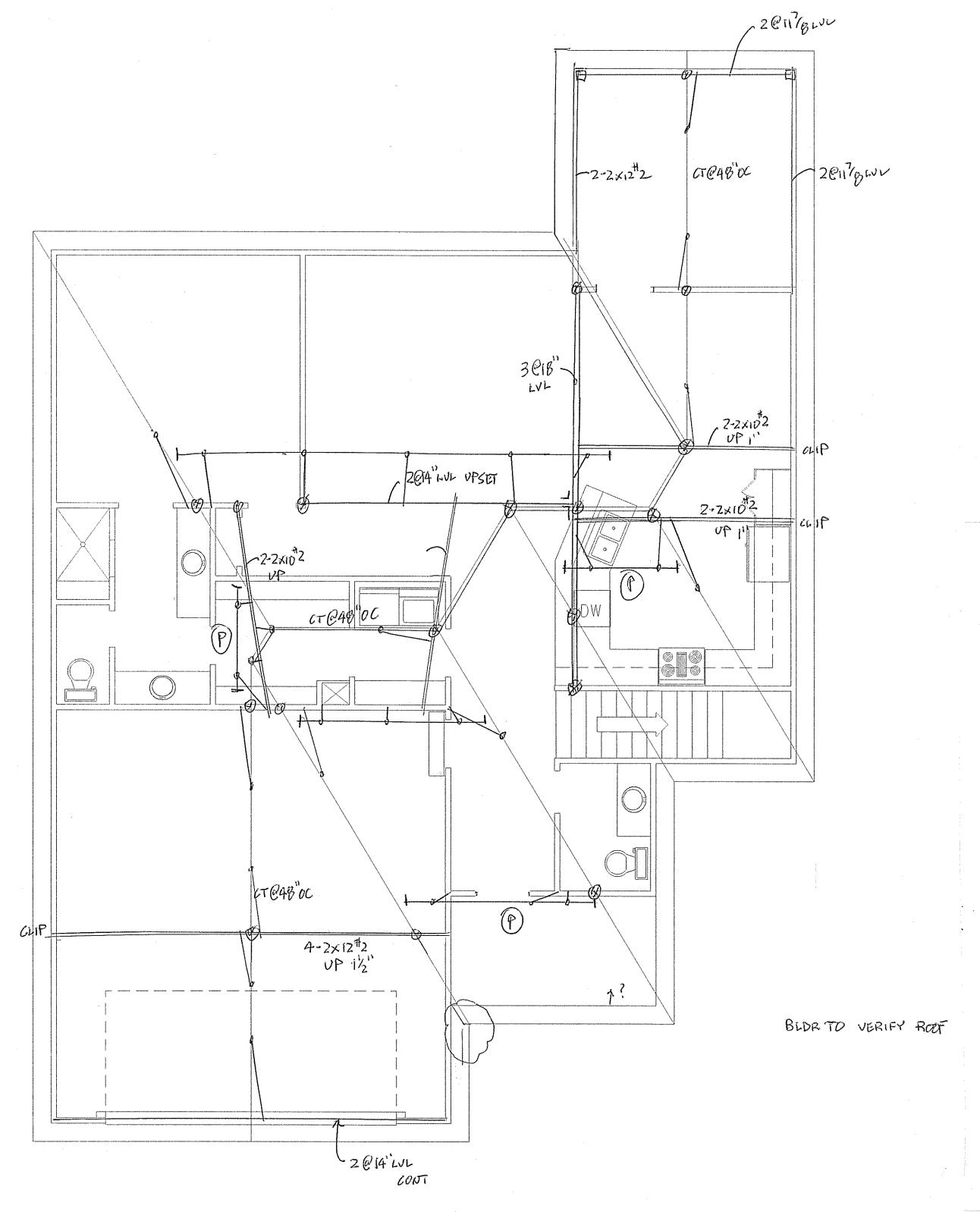
LEE'S SUMMIT MC

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BUILD SET

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SHEET NO:



RAFTER TIES SHALL BE PROVIDED PER 802.3.1 WHEN THE CJ'S ARE NOT CONNECTED TO THE RAFTERS AT THE TOP PLATE

COMP ROOF

ROOF & SOFFIT VENTS PER GODE

ASPHALT SHIVELES — 2/12 MIN.
WOOD SHIVELES/ISHAVES — 3/12 MIN.
CONCRETE TILES — 25/12 MIN.
FLASH & COUNTEFFLASH ALL FOOF PENETRATIONS
AND INTERSECTIONS

RAFTERS & CELLING JOSTS

COLLAR TES AT UPPER THIRD POINT 48° OC 2 x 4 MIN
CELLING JOSTS ARE TURNED AS REQUIRED FOR RAFTER TIES

FIDGE/RAFTER HANGERS AND STRAPS AS REQTO
OUTROGERS REQTO @ GABLE END SOFFITS FOR
COMP FOOF W/ SOFFITS > 12°
OUTROGERS REQTO @ GABLE END SOFFITS FOR TILE ROOF

ATTIC VENTILATION
VENT EACH ENCLOSED ATTIC SPACE
NET AREA OPENING = 1/50th OF VENTED AREA

UNLESS NOTED.
RAFTERS ARE 2 X 6 //2 DF/L @ 16° CC
MAX SPAN 11' +/
PROVIDE VERTICAL LOAD SUPPORT AT THE NOTED
LOAD BOINTS FOR HPS VALLEYS BURINGS & FIDGES

THE TOP OF THE RAFTER SUPPORT WALL

\*\*ALL HOOF FRAMING MEMBERS

\*\*THE SZED AS BEAMS AND BRACET

TO LEWG, HEADERS OR OTHER

\*\*THE TOP OF THE RAFTER SUPPORT WALL

\*\*THE TOP OF THE RAFTER SUPPORT WALL

\*\*THE TOP OF THE RAFTER SUPPORT WALL

BUILD

DESCRIPTION:

MODEL:

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LOCAL CODES TAKE PRECIDENCE OVER
THESE PLANS. CONTRACTOR WILL BE
RESPONSIBLE FOR PLAN INTEGRITY
AND CODE COMPLIANCE

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5 of 5

SHEET NO:

ROOF PLAN

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

RELEASE FOR
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LEE'S SUMMIT, MISSOURI
12/03/2020

2. ALL FOOTINGS ARE DESIGNED TO BEAR ON NATURAL UNDISTURBED SOIL CAPABLE OF ADEQUATELY SUSTAINING A MINIMUM BEARING PRESSURE OF 1,500 PSF. IF SUITABLE UNDISTURBED BEARING CAPACITY IS NOT ENCOUNTERED AT THE ELEVATION INDICATED ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF

3. ALL TOPSOIL, ORGANIC MATERIAL, AND EXISTING STRUCTURES SHALL BE REMOVED FROM BUILDING AREA AND FROM AREAS TO

4. REFERENCE THE SOILS REPORT FOR ALL FILL CONDITIONS.

5. OVEREXCAVATE BUILDING AREA BELOW SLAB SUBGRADE ELEVATION AND REPLACE WITH MATERIAL PER SOILS REPORT,

7. IN-SITU SOIL CONDITIONS, SEE SOILS REPORT OR 1,500 PSF BEARING C) REBAR SHALL BE CLEAN, AND FREE FROM RUST AND OIL PRIOR TO & 60 PCF EQUIVALENT FLUID WEIGHT.

∠ 48" LONG MIN.

8. SOIL CONDITIONS AT THE DEPTH OF EXCAVATION FOR THE FOOTING SHALL BE UNIFORM AND CONSISTENT. NOTIFY THE ENGINEER OF RECORD OF ANY INCONSISTENCIES.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ANY EXCESS EXCAVATION MATERIALS AND FOR OBTAINING AND SUPPLYING ADDITIONAL FILL MATERIAL AS

TOE OF CUT

SLAB ON FILL

TURN DOWN SLAB @ | HVAC BLOCK DOWN \_ \_ \_ \_ \_ DIAGONAL STEEL DETAIL MAY VARY  $\stackrel{\wedge}{\smile} > 0.58$ - LOAD PLANE STRESS ZONE

FOOTING FOOTING STRESS ZONE PEDESTAL 48" X 48" X 16" FTG. w/ 8 #4's EW DETAIL MAY VARY CAST w/ SLAB -3" MIN COVER -UNDISTURBED  $_{\Delta}$  3" MIN. COVER PEDESTAL PED @ FTG

DETAIL MAY VARY

<u>DIVISION 3</u> — CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 332 "REQUIREMENTS FOR RESIDENTIAL CONCRETE CONSTRUCTION."

CONCRETE MATERIALS SHALL COMPLY WITH: A) CEMENT — ASTM C 150 TYPE 1 B) AGGREGATE — ASTM C 33, MAXIMUM AGGREGATE SIZE  $^3\!\!/^{\circ}$ 

(AIR-ENTRAINED CONCRETE)

C) WATER - POTABLE, WATER/CEMENT RATIO .5 (MAX.) D) AIR-ENTRAINING ADMIXTURE - ASTM C 260 E) WATER-REDUCING ADMIXTURE - ASTM C 494, INCLUDING

SUPERPLASTICIZERS. F) FLY ASH — ASTM C 618, CLASS C

3. CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH (f'c): COMP. STRENGTH (f'c) TYPE OF CONSTRUCTION A) FOOTINGS, WALLS, AND SLABS SEE TABLE SEE TABLE B) EXTERIOR SLABS AND CURBS

CONCRETE PROPORTIONS SHALL BE ESTABLISHED ON THE BASIS OF FIELD EXPERIENCE AND/OR TRIAL MIXTURES IN ACCORDANCE WITH ACI 318-89 SECTIONS 5.2 AND 5.3. WHEN FLY ASH IS UTILIZED IN THE MIX, MIX SHALL CONTAIN A WATER-REDUCER. FLY ASH SHALL BE ADDED AT THE RATE OF NOT MORE THAN 100 POUNDS PER CUBIC YARD AND CEMENT SHALL BE REDUCED BY NOT MORE THAN 15 PERCENT BY WEIGHT.

4. PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT A POINT OF PLACEMENT OF NOT MORE THAN 4" TO 5".

5. USE AIR-ENTRAINING ADMIXTURES IN EXTERIOR EXPOSED CONCRETE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING AIR CONTENT OF 5 TO 7 PERCENT ENTRAINED AIR.

6. ALL PLUMBING AND ELECTRICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING THE SLAB

7. CONCRETE WORK EXECUTION:

A) MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE, UNLESS NOTED OTHERWISE ON DRAWINGS: CAST AGAINST AND EXPOSED TO EARTH\_ EXPOSED TO EARTH OR WEATHER\_

NOT EXPOSED TO EARTH OR WEATHER B) IN CORNERS OF GRADE BEAMS PROVIDE CORNER REINFORCEMENT LAP TWO FEET EACH DIRECTION IN OUTSIDE FACE, MATCHING SIZE AND SPACING OF HORIZONTAL REINFORCEMENT.

C) PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 20 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM ¼ OF THE SLAB DEPTH, AS SOON AFTER SLAB FINISHING AS POSSIBLE WITHOUT DISLODGING AGGREGATE. (DO NOT SAW CUT STRUCTURAL SLABS w/o APPROVAL).

BATCH TICKETS SHALL BE SUBMITTED TO A CONTRACTORS REPRESENTATIVE PRIOR TO OFF LOADING. ANY CONCRETE MORE THAN 45 MINUTES OUT PRIOR TO STARTING PLACEMENT SHALL BE

9. THE MAXIMUM ADDITION OF WATER SHALL BE LIMITED TO 1 GALLON PER YARD; NOTE THAT THIS ADDITION SHALL BE USED TO CONTROL HEAT ONLY (NOT SLUMP).

10. PUMPS SHALL NOT BE PRIMED IN FORMS.

11. REINFORCEMENT:

A) ALL REINFORCING BARS SHALL BE A615, GR40 MIN. LAP SPLICES 18" MIN FOR #4 BAR. SEE TABLE

B) WELDED WIRE FABRIC SHALL BE ASTM A185, LAP AT LEAST ONE FULL MESH AND LACE SPLICES WITH WIRE.

THE PLACEMENT OF CONCRETE. REBAR SHALL BE TIED AND SECURED AS REQUIRED TO PREVENT DISPLACEMENT IN THE FORMS. D) TIE STEEL TO PREVENT DISPLACEMENT. HOOK AND TIE STEEL AS

POSSIBLE. TIES, CHAIRS, OR OTHER PRODUCTS SHALL BE PROTECTED WHEN LOCATED NEAR EXPOSED SURFACES. E) STEEL SHALL BE STORED ON SITE ABOVE GRADE, AND COVERED AS REQUIRED FOR PROTECTION FROM RAIN AND OTHER POSSIBLE

HVAC TRUNK

12" ADDITIONAL

SLAB @ HVAC

DETAIL MAY VARY

JOIST HNGR -

FLOOR

JOIST

6" MIN. STEM WALL-

1-1/2" LEDGE

BLOCK DOWN @ HVAC

DBL PLATE FOR GYP CRETE

CONCRETE SLAB

4

- 1—1/2" LEDGE MIN.

ICF WALL

FLUSH FRAMING @ FDN

2.5" INSULATION,

NTS

12. ADJUST FOUNDATION FOR SITE AND SOIL CONDITIONS AND VERIFY WITH EOR.

DIVISION 4 - MASONRY

1. COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION (CMU) SHALL BE AS FOLLOWS (PSI). MASONRY STRENGTH NOT SPECIFICALLY NOTED ON PLAN SHALL BE (f'm) 1500 PSI.

> MASONRY STRENGTH (F'm DESIGN)\_\_\_ BLOCK STRENGTH\_ 1900 MORTAR STRENGTH 1800 GROUT STRENGTH\_

2. CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C 90, TYPE N-II. ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN

3. MORTAR MIX SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 270. TYPE M OR S. TYPE M MORTAR SHALL BE USED WHERE MASONRY IS IN CONTACT WITH SOIL.

4. GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 476. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. ALL CELLS IN CONCRETE BLOCKS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID. HOLD GROUT DOWN 1-1" BELOW TOP OF BLOCK AT GROUT LIFT JOINTS AND AT CONCRETE PLACED OVER

5. MINIMUM LINTEL, WHERE NOT ON PLANS, SHALL HAVE A MINIMUM OF 2 — #5's CONTINOUS HORIZONTAL BARS IN BOTTOM OF BOND BEAM OR LINTEL BLOCK AND SHALL BE GROUTED SOLID TO A MIN. DEPTH OF 24." ALL LINTEL REINFORCING AND GROUT SHALL EXTEND 2' MINIMUM PAST JAMBS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

6. LAP REINFORCING 48 BAR DIAMETERS. STAGGER LAP SPLICES A MINIMUM OF ONE LAP LENGTH.

7. MASONRY VENEER SHALL BE ATTACHED TO SUPPORT WALL FRAMING WITH %" DIAMETER WALL TIES OR DOVETAIL—TYPE METAL TIES OF EQUIVALENT STIFFNESS EMBEDDED INTO HORIZONTAL MORTAR JOINTS. MAXIMUM VERTICAL SPACING OF TIES SHALL BE 16." MAXIMUM HORIZONTAL SPACING SHALL BE 24." TIES IN ALTERNATE COURSES SHALL BE STAGGERED. PROVIDE #9 WIRE REINFORCING IN HORIZONTAL MORTAR JOINTS AT 16" OC. ENGAGE #9 WIRE WITH WALL ANCHOR TIES. CONSTRUCTION JOINTS IN MASONRY VENEER WALLS SHALL BE LOCATED PER THE DRAWINGS.

8. WATERPROOFING, DRAINAGE PLANE, AND INSTALLATION PER ADOPTED BUILDING CODE.

<u>DIVISION 5.5</u> — MISC. STRUCTURAL STEEL

1. ALL MISCELLANEOUS STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC "SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR

2. MISCELLANEOUS STRUCTURAL STEEL MATERIAL SHALL COMPLY A) STRUCTURAL STEEL — ASTM A992

B) STEEL PIPE COLUMNS - ASTM A53 GRADE B(Sch 40 TYP) C) ANCHOR BOLTS - ASTM A307 GRADE A, NON-HEADED TYPE UNLESS OTHERWISE NOTED.

3. FLITCH PLATES SHALL HAVE 1" DIA. BOLTS @ 16" OC, STAGGERED TOP AND BOTTOM BETWEEN JOIST LAYOUT.

| RETURN WALLS                                    |   |
|---|---|
| UNBALANCED<br>BACKFILL HT.                      | RETURN SPACING<br>(hold down 24" below grade)             |
| UP TO 5'  | RETURN WALLS NOT REQ'D                                    |
| 5' TO 9'  | 16'—4" ON CENTER (MAX.), AND/OR<br>WITHIN 8' OF STEP DOWN |
| * RETURN WALLS ALLOW FOR BACKELL W/O FLOOR DECK |   |

\* RETURN WALLS ALLOW FOR BACKFILL W/O FLOOR DECK IN PLACE FOR 60 PCF EQUIVALENT FLUID WEIGHT SOIL. NO HEAVY EQUIPMENT OR SURCHARE LOADING.

FOUNDATION PER DETAIL MAY VARY FOUNDATION 2 X 4 OR 2 X 6 GUIDELINE LSIMPSON MAS ALTERNATIVE INSTALLATION

> ALTERNATIVE TO J-BOLTS DETAIL MAY VARY MIN. 2 X LEDGE 24" LAP, MIN - DRILL & SEAL AS REQ'D 1-1/2" COVER -— DOWELS @ 12" OC GARAGE SLAB:

MUDSILL ANCHORAGE

SLAB ON FILL CONCRETE OR CMU

SLAB @ WALL

CONC STRENGTH REQ'D STRENGTH 3,000 psi 3,500 psi 3,500 psi SUS-SLAB 7 SACK MIX

 $M_{\text{max}} = \frac{W_1 * L^2}{14} - 27,206 \#-in$ 40,000 \* 0.2  $\phi M_N = *\phi A * f(d - a/2)$ 

... Use #4 @ 12" OC EW

12'-6" (+/—) MODULE

= 0.9(0.2)(40000)(4-0.22/2)= 0.9(0.2)(40000)(4-0.22/2)= 28,008 #-in > 25,951 (OKAY)= 28,008 # -in > 27,206 (OKAY)

100 # /中' (LL)

67 # /中'(DL)

 $w_u = 1.2(DL) + 1.6(LL)$ 

 $= 240 \# / \oplus' (TL)$ 

15'-6" (+/-) MODULE

<u>DIVISION 6</u> — ROUGH CARPENTRY

1. ALL ROUGH CARPENTRY WORK SHALL CONFORM TO THE REQUIREMENTS OF NFPA "NATIONAL DESIGN SPECIFICATION OF WOOD CONSTRUCTION", TPI "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES", APA "PLYWOOD DESIGN SPECIFICATIONS", DOC PS 1 "PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD", DOC PS 56 "STRUCTURAL GLUED" LAMINATED TIMBER", AND APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE.

UFER GROUND NEAR PANEL -

2. ROUGH CARPENTRY MATERIALS SHALL COMPLY WITH: A) LUMBER - S4S, S-DRY, KD, OR S-GRN GRADE MARKED, COMPLYING WITH PS 20, GRADED UNDER WWPA OR SPIB RULES: STUD GRADE #2 DOUGLAS FIR MIN TYPICAL HEADER: RAFTER: #2 DOUGLAS FIR PLATES: #2 DOUGLAS FIR

BLOCKING: #2 DOUGLAS FIR B) METAL FRAMING FASTENERS - ASTM A 153, HOT-DIP GALVANIZED FASTENERS; EQUAL TO SIMPSON STRONG-TIE CONNECTORS COMPLYING WITH APPLICABLE ICC-ES REPORTS. C) PLYWOOD - APA RATED SHEATHING, COMPLYING TO PS 1. D) LVL - LAMINATED VENEER LUMBER SHALL BE GRADE 2800

F-2.0E AND SHALL MEET THE REQUIREMENTS OF APPLICABLE

ICC-ES REPORTS. E) GLULAM BEAMS - COMBINATION 24F-V3 IN ACCORDANCE WITH AITC A190.1

3. EXTERIOR WALL AND ROOF SHEATHING SHALL BE 76" APA RATED SHEATHING 24/0 EXTERIOR GLUED (MIN) FOR 16" OC STUD SPACING. NAIL SHEATHING TO SUPPORT MEMBERS WITH 8D COMMON NAILS AT 6" ON CENTER ALONG EDGE SUPPORTS AND 12" ON CENTER ALONG FIELD SUPPORTS UNLESS NOTED OTHERWIDE. PROVIDE SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES; 4/8 GUN NAILS.

NOTE: ROOF SHEATHING SHALL BE §" APA RATED SHEATHING FOR TILE ROOF, OR AS REQUIRED BY MANUFACTURER.

4. INTERIOR SHEAR WALL SHEATHING WHERE NOTED SHALL BE 76" APA RATED SHEATHING 24/0 EXTERIOR GLUED (MIN) FOR 16" OC STUD SPACING, NAIL SHEATHING TO SUPPORT MEMBERS WITH 8D COMMON NAILS AT 4" ON CENTER ALONG EDGE SUPPORTS AND 6" ON CENTER ALONG FIELD SUPPORTS UNLESS NOTED OTHERWISE, PROVIDE SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES.

5. ATTACH METAL FRAMING FASTENERS TO FRAMING MEMBERS WITH MINIMUM NUMBER AND SIZE OF NAILS LISTED IN THE APPLICABLE ICC-ES REPORTS.

6. WOOD TRUSS SYSTEM; TRUSS JOIST SYSTEM AND GLULAM SYSTEM FOR ROOFS: A) DESIGN, FABRICATE, AND ERECT IN ACCORDANCE WITH BCSI STANDARDS AND NDS SPECIFICATIONS. B) DESIGN LOADS:

> 25 PSF SNOW LIVE LOAD 10 PSF DEAD LOAD TOP CHORD (20 TILE) 10 PSF DEAD LOAD BOTTOM CHORD

C) SUBMIT SHOP DRAWINGS, INCLUDING DESIGN CALCULATIONS, MATERIAL STRESSES, GRADE AND SPECIES OF WOOD, AND PLACEMENT DRAWING.

7. DEFAULT HEADER SIZE NOT SPECIFIED SPANNING 8'-0" MAX SHALL BE 2 — 2 X 10 #2, WITH 2 STUD SUPPORT.

8. ALL HEADERS OVER 4'-0" SHALL HAVE DOUBLE TRIMMER @ EACH SUPPORT, OR AS SPECIFIED, UNO.

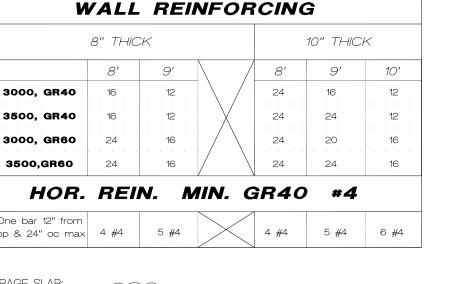
9. SOLID BLOCKING BETWEEN JOISTS @ 36" OC FOR JOISTS PARALLEL TO THE EXTERIOR FOUNDATION WALL, MIN. 48" OR 3 JOIST SPACES.

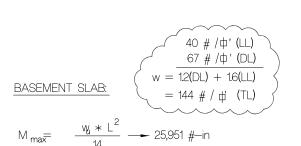
10. ALL FLUSH FRAMING @ HEADERS OR GIRDERS SHALL BE HANGERED. 11. BLOCK BETWEEN JOISTS @ SUPPORTS OR OVER BEAMS.

12. RATED CONSTRUCTION FOR PROJECTIONS INTO SETBACKS AS REQ'D.

13. DOUBLE JOIST BELOW PARALLEL NONBEARING WALLS ON LAYOUT, SINGLE JOIST OFF LAYOUT. STRUCTURE BELOW LOAD-BEARING WALLS AS NOTED ON PLANS.

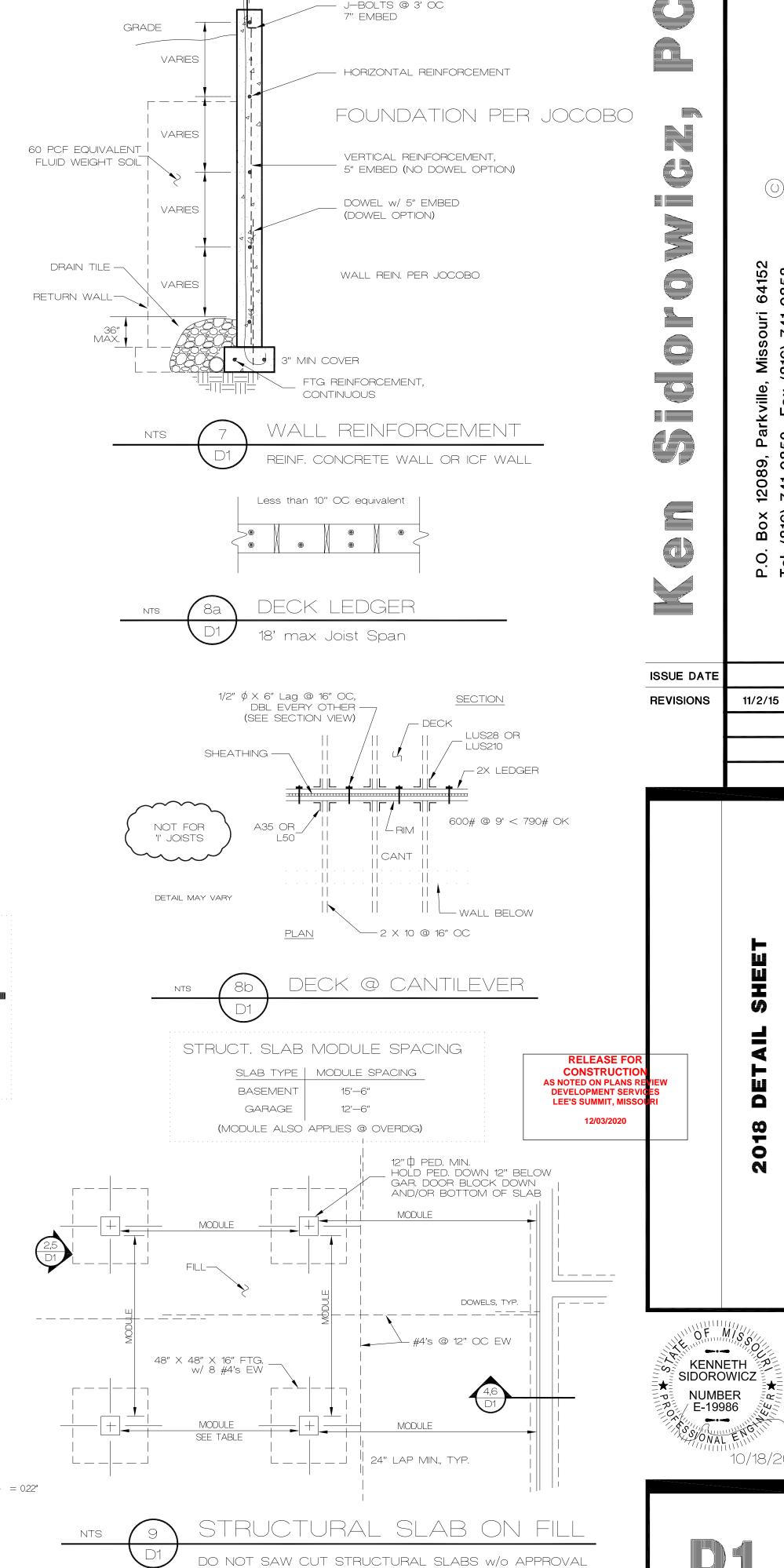
## JOCOBO RESIDENTIAL





40,000 \* 0.2  $\phi M_N = *\phi A * f(d - a/2)$ 

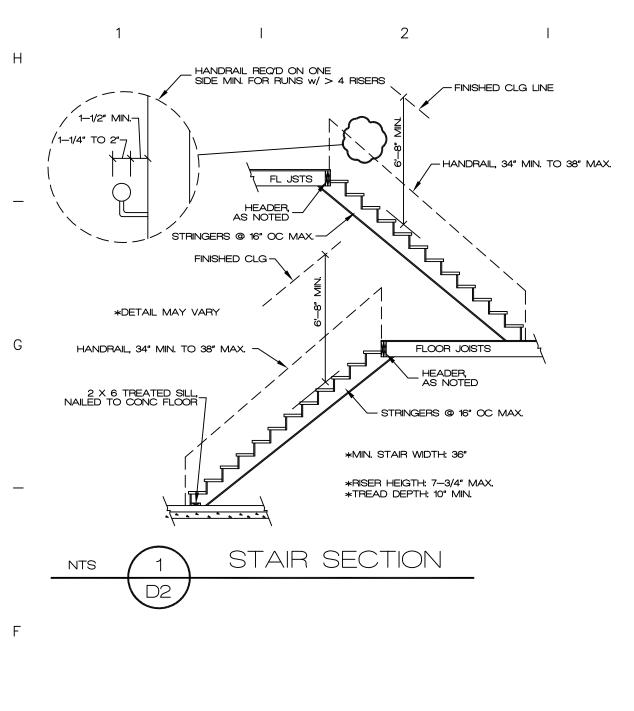
... Use #4 @ 12" OC EW

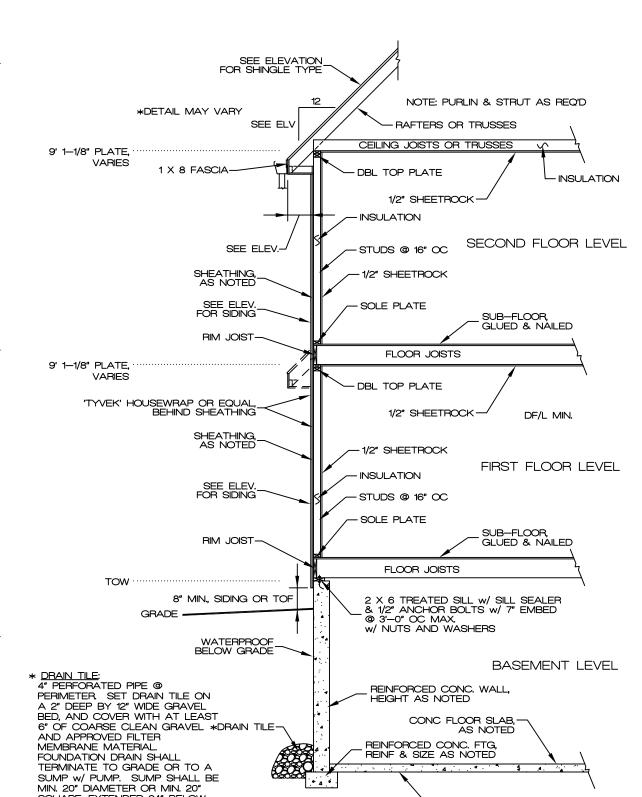


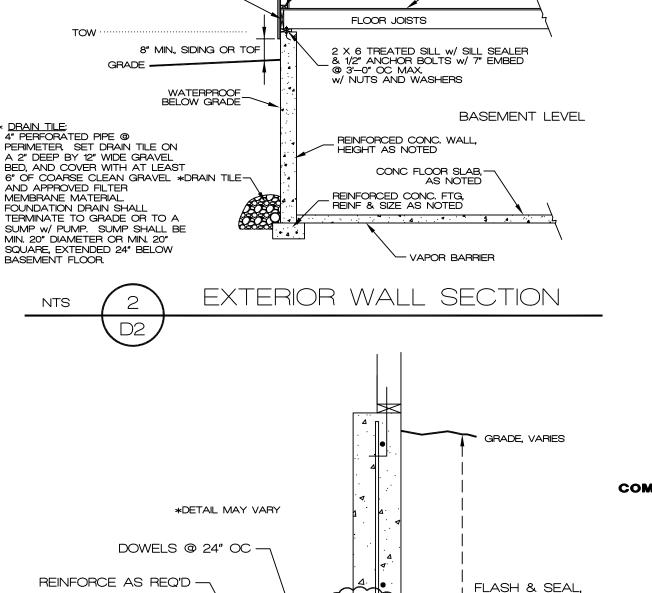
VERIFY ALL STRUCTURAL SLAB DETAILS W/ ENGINEER

DO NOT ISOLATE COLUMNS FROM STRUCTURAL SLABS

DETAIL MAY VARY







SLAB @ FROST TRENCH

w/ STEM WALL (< 4')

VAPOR BARRIER

UNDISTURBED

1-1/2" COVER MIN.

BY BLDR

FROST DEPTH (36" MIN) AND 12" MIN. BELOW

UNDISTURBED



4

CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR, WALLS ENCLOSING STAIRWAYS AND

LANDINGS WHERE THE GLASS IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR, ENCLOSURES FOR SPAS, TUBS

SURFACE WITHIN 36". A MINIMUM OF ONE EGRESS WINDOW

BASEMENT WITH A MINIMUM OPERABLE AREA OF 5.7 S.F., MINIMUM HEIGHT OF 24 INCHES AND MINIMUM WIDTH OF 20

2. <u>SMOKE DETECTORS</u> — PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR AT THE STAIRS, INCLUDING BASEMENTS. ALARMS

SHALL BE INTERCONNECTED SO THE ACTUATION OF ONE ALARM

WILL ACTIVATE ALL THE SMOKE DETECTORS IN THE DWELLING.

\*CARBON MONOXIDE DETECTORS REQ'D OUTSIDE EACH SLEEPING AREA IN DWELLING UNITS WITH FUEL-FIRED APPLIANCES

AND/OR ATTACHED GARAGES, AND IN APPLIANCE AREAS

4. <u>ATTIC VENTILATION</u>: THE NET FREE VENTILATION AREA SHALL BE NOT LESS THAN 1/150 OF THE AREA OF THE SPACE BEING VENTILATED; THE NET VENTILATION AREA MAY

BE REDUCED TO 1/300 IF 50% TO 80% OF THE REQUIRED

VENTILATION AREA IS PROVIDED BY VENTILATOR LOCATE

RAFTERS SPACES ENCLOSED BY CEILING DIRECTLY APPLIED TO UNDERSIDE OF RAFTERS SHALL BE SIZED T

ALLOW A MINIMUM OF 1 INCH CLEAR VENTED AIR SPACE ABOVE THE INSULATION. ATTICS WITH A MAXIMUM

VERTICAL CLEAR HEIGHT OF LESS THAN 30 INCHES ARE NOT REQ'D TO HAVE ACCESS OPENING.

THIS REQUIREMENT IS WAIVED FOR A COCOON SYSTEM MAKE—UP AIR REQ'D

6. <u>HVAC IGNITION SOURCE</u>: EQUIPMENT AND APPLIANCES WITH AN IGNITION SOURCE THAT ARE LOCATED IN THE GARAGE

AND FOR INSTALLATION WITHOUT ELEVATION.

PROTECTED BY A PRESSURE REGULATOR.

EXTERIOR GRADE.

ALL OTHER AREAS.

5. <u>MAKE-UP/COMBUSTION AIR</u>: MAKE-UP OR COMBUSTION AIR SHALL BE PROVIDED FROM OUTSIDE AS REQ'D FOR KIT. EXHAUST

OR GARAGE CLOSET SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18" ABOVE THE FLOOR, OR ARE LISTED AS FLAMMABLE VAPOR RESISITANT

7. EXHAUST AIR: ALL EXHAUST FANS SHALL EXHAUST DIRECTLY TO THE BUILDING EXTERIOR.

8. <u>GARAGE FLOOR SLOPE</u>: GARAGE FLOORS SHALL SLOPE 2% MIN. TO THE GARAGE DOOR(S), AN OPEN TRENCH, OR AN UNTRAPPED

THAT DISCHARGES DIRECTLY TO THE TO THE

9. <u>FINISHED GRADE</u>: THE FINISHED GRADE OF THE YARD SHALL SLOPE 6" MIN. WITHIN THE FIRST 10 FEET, THEN 296 MIN. IN

10, <u>WINDOWS</u>: WINDOW FLASHING AND INSTALLATION MANUAL FROM MANUFACTURER SHALL BE ON SITE.

LOCATION

**SLEEPING ROOMS ATTICS SERVED** BY MAN DOOR

MONOLITHIC W/ SLAB

11. <u>WATER HEATER</u>: PROVIDE MEANS OF CONTROLLING PRESSURE CAUSED BY THERMAL EXPANSION IF THE WATER SERVICE IS

OVER 400 cfm, FURNACE OR WH THRU ROOF OR OUTSIDE WALL.

IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED, AT LEAST 3 FT ABOVE EAVES OR CORNICE VENTS.

3. <u>INSULATION REQUIREMENTS</u>: INSULATION VALUES SHALL COMPLY WITH APPLICABLE 2018 IRC STANDARDS.

INCHES. THE OPERABLE PORTION SHALL NOT EXCEED 44 INCHES A.F. WATER RESISTANT WINDOW WELLS AS REQ'D

SHOWERS, AND GLASS EXCEEDING 9 S.F. AND WHOSE BOTTOM EDGE IS LESS THAN 18" A.F.F. OR WALKING

COVER ALL JOINTS WITH WATER RESISTANT SEALANT. FINISH TO EXTEND 72" ABOVE DRAIN. 13. GFCI'S: SHALL BE LOCATED IN THE GARAGE, AT ALL KITCHEN COUNTER RECEPTACLES, IN BATHROOMS, AT ALL OUTDOOR RECEPTACLES, AND THOSE WITHIN 6' OF SINKS. SPA AREAS: GFCI WITHIN 10' AND >5', NO RECEPTACLE WITHIN AND NO SWITCH WITHIN 5'. WITHIN 36" OF BATHROOM OR POWDER LAVATORY. PLUG-IN-PLANE COVERS AS REQ'D. SHALL BE PROVIDED IN EACH BEDROOM AND ONE FROM THE

14. <u>DRYWALL</u>: GARAGES AND ENCLOSED SPACE BELOW STAIRS SHALL HAVE 5/8" TYPE X ON CEILING, BEAM, COLUMN, AND ON COMMON WALLS WITH LIVING SPACE.

15. <u>APPLIANCES</u>: SHALL BE DIRECT VENT, VENT TERMINALS SHALL BE LOCATED PER CODE, WITH THE BOTTOM OF VENT NOT LESS THAN 12" ABOVE FINISHED GRADE, UNO. DRYER SHALL HAVE 4" DIAMETER EXHAUST DUCT TO EXTERIOR, WITH A MAXIMUM LENGTH OF 25 FEET. ALL DUCT SYSTEMS SHALL BE AIR TIGHT.

16. <u>FURNACE</u>: SHALL HAVE 18" CLEARANCE ON CONTROL SIDE, AND 12" CLEARANCE ON ALL OTHER SIDES.

17. <u>LAWN IRRIGATION</u>: THE POTABLE WATER SUPPLY SHALL BE PROTECTED BY BACKFLOW PREVENTION.
ALL OUTDOOR RECEPTACLES, AND WITHIN 6' OF ANY SINK. SPA AREAS: GFCI WITHIN 10' AND >5', NO RECEPTACLE WITHIN 5', AND NO SWITCH WITHIN 5'.

18. <u>PLUMBING FIXTURES</u>: FIXTURES WITH A FLOOD LEVEL BELOW THE ELEVATION OF THE NEXT UPSTREAM PUBLIC SEWER MANHOLE COVER SHALL BE PROTECTED WITH AN APPROVED BACKWATER VALVE (INCLUDING DRAINAGE DISCHARGE). BASEMENT HOSE CONNECTIONS SHALL HAVE AN ANTI-SIPHON DEVICE INSTALLED. ACCESS TO PUMPS UNDER WHIRLPOOL SHALL BE 18" X 18" MIN.

19. <u>GAS PIPING</u>: GAS PIPING SERVING A TOWNHOME SHALL NOT PASS THROUGH ADJACENT UNITS.

20. <u>ELECTRICAL FIXTURES</u>: FIXTURES IN DAMP AND WET LOCATIONS SHALL BE LISTED AS SUITABLE FOR THAT LOCATION. RECEPTACLE OUTLETS SHALL BE SPACED 6' MAX. (MEASURED HORIZONTALLY ALONG FLOOR LINE) AND IN ANY WALL SPACE 2' WIDE OR GREATER.

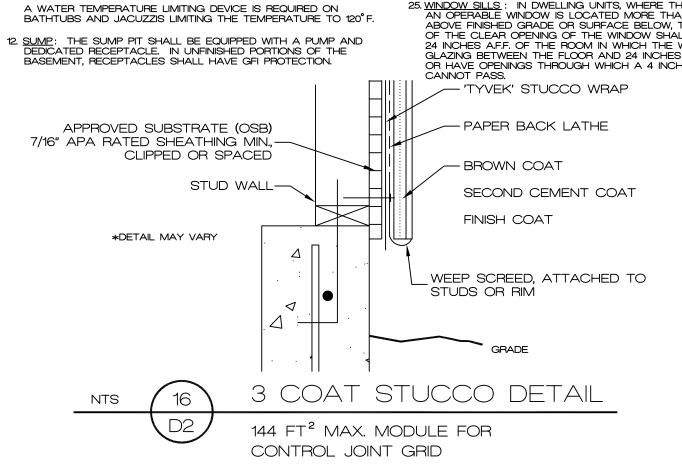
21. <u>AFCI</u>: ALL RECEPTA AFCI PROTECTED. ALL RECEPTACLE CIRCUITS EXCEPT GFCI SHALL BE 22. <u>BONDING</u>: ALL METALLIC BOXES SHALL BE BONDED. PROVIDE BONDING TO ALL METAL PIPING, GAS, AND OTHER BUILDING

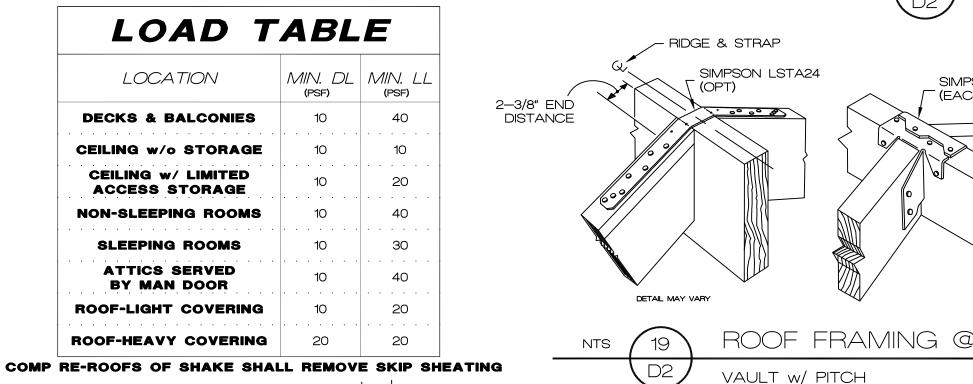
SYSTEMS. PROVIDE BOND JUMPER ACROSS METALLIC HOT AND COLD WATER LINES AT THE WATER HEATER. 23. BRANCH CIRCUITS: BATHROOM RECEPTACLES SHALL BE SUPPLIED BY MINIMUM OF ONE 20-AMP BRANCH CIRCUIT, SUPPLYING NO OTHER OUTLETS. PROVIDE SEPARATE 20-AMP BRANCH CIRCUIT FOR LAUNDRY. PROVIDE MINIMUM OF TWO 20-AMP SMALL APPLIANCE BRANCH CIRCUITS FOR THE

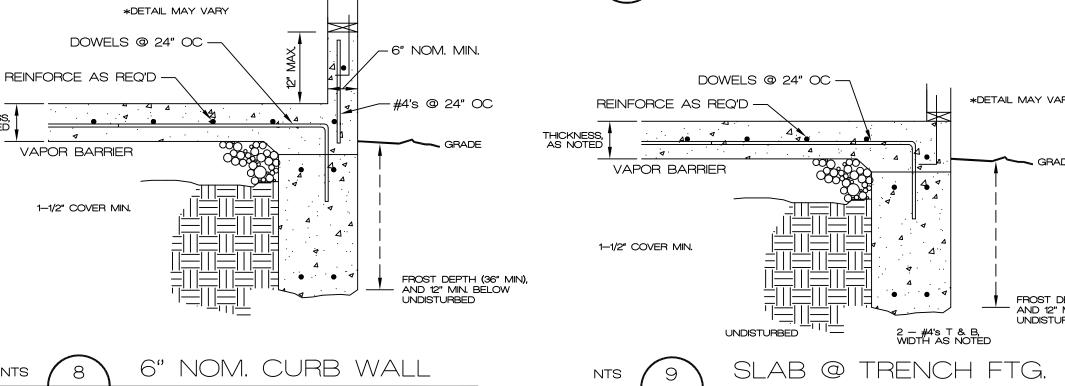
24. <u>GUARD OPENINGS</u>: OPENINGS IN REQ'D GUARDS SHALL NOT PERMIT THE PASSAGE OF A 4" SPHERE FROM THE WALKING SURFACE TO THE REQ'D GUARD HEIGHT.

KITCHEN/DINING/BREAKFAST.

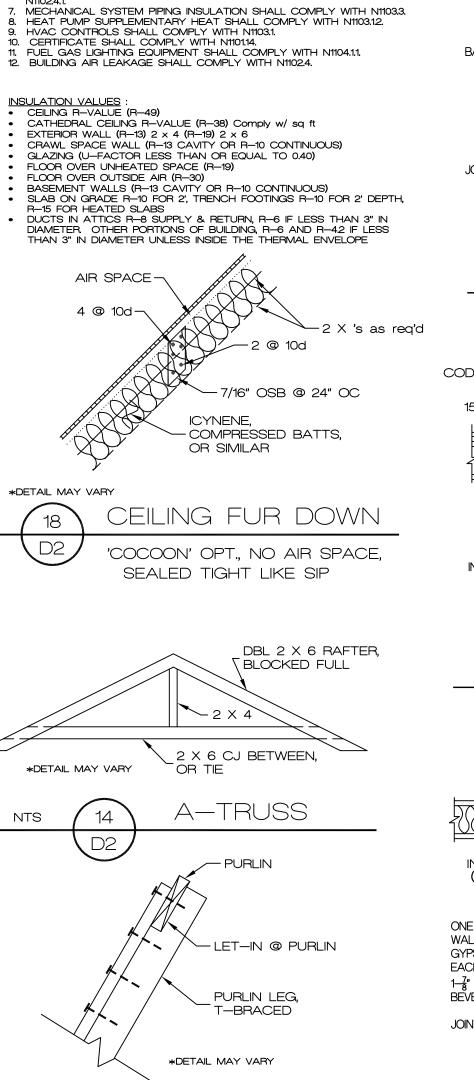
25. <u>WINDOW SILLS</u>: IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES ABOVE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MIN. OF 24 INCHES A.F.F. OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND 24 INCHES SHALL BE FIXED OR HAVE OPENINGS THROUGH WHICH A 4 INCH DIA. SPHERE CANNOT PASS. — 'TYVEK' STUCCO WRAP



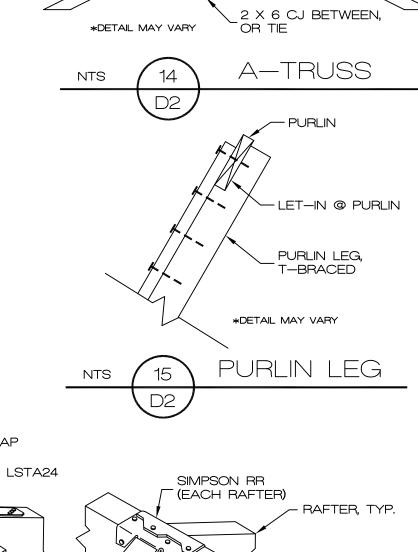


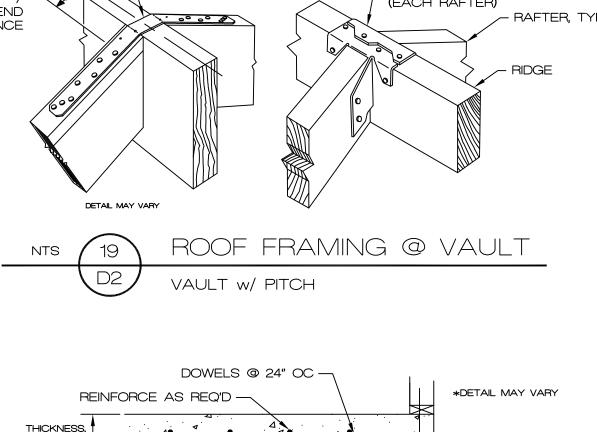


D2

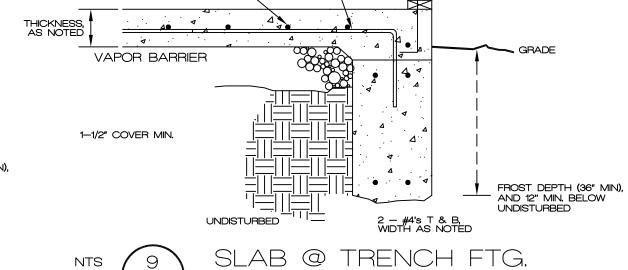


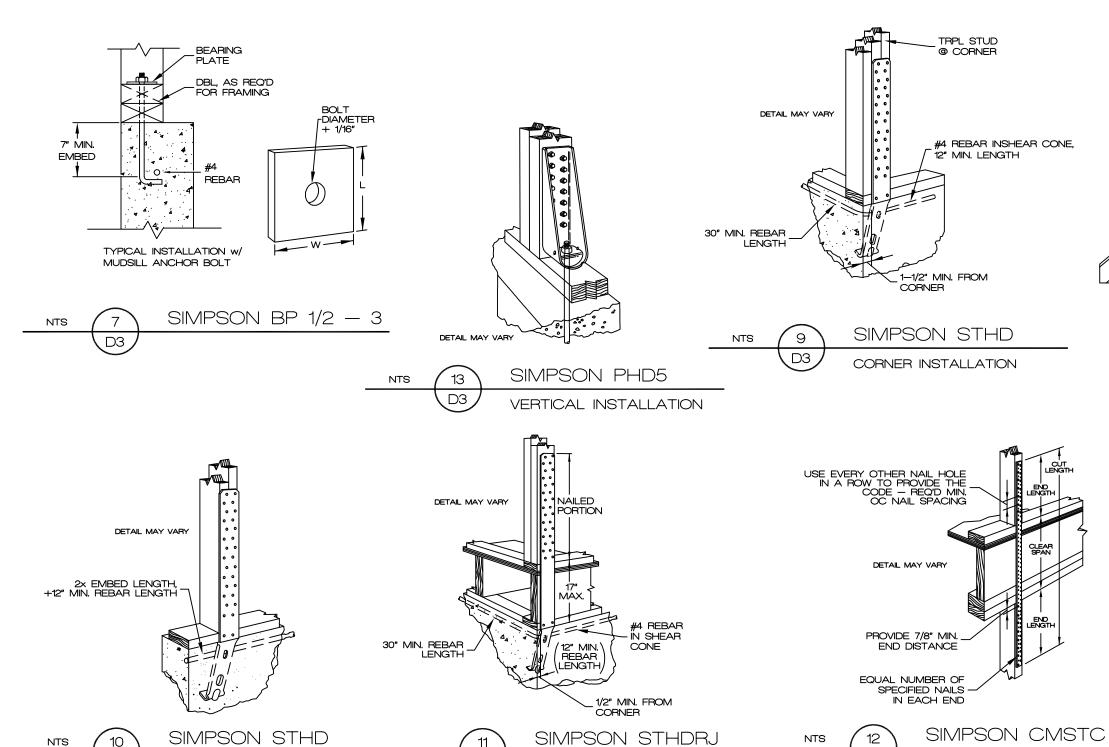
16" OC



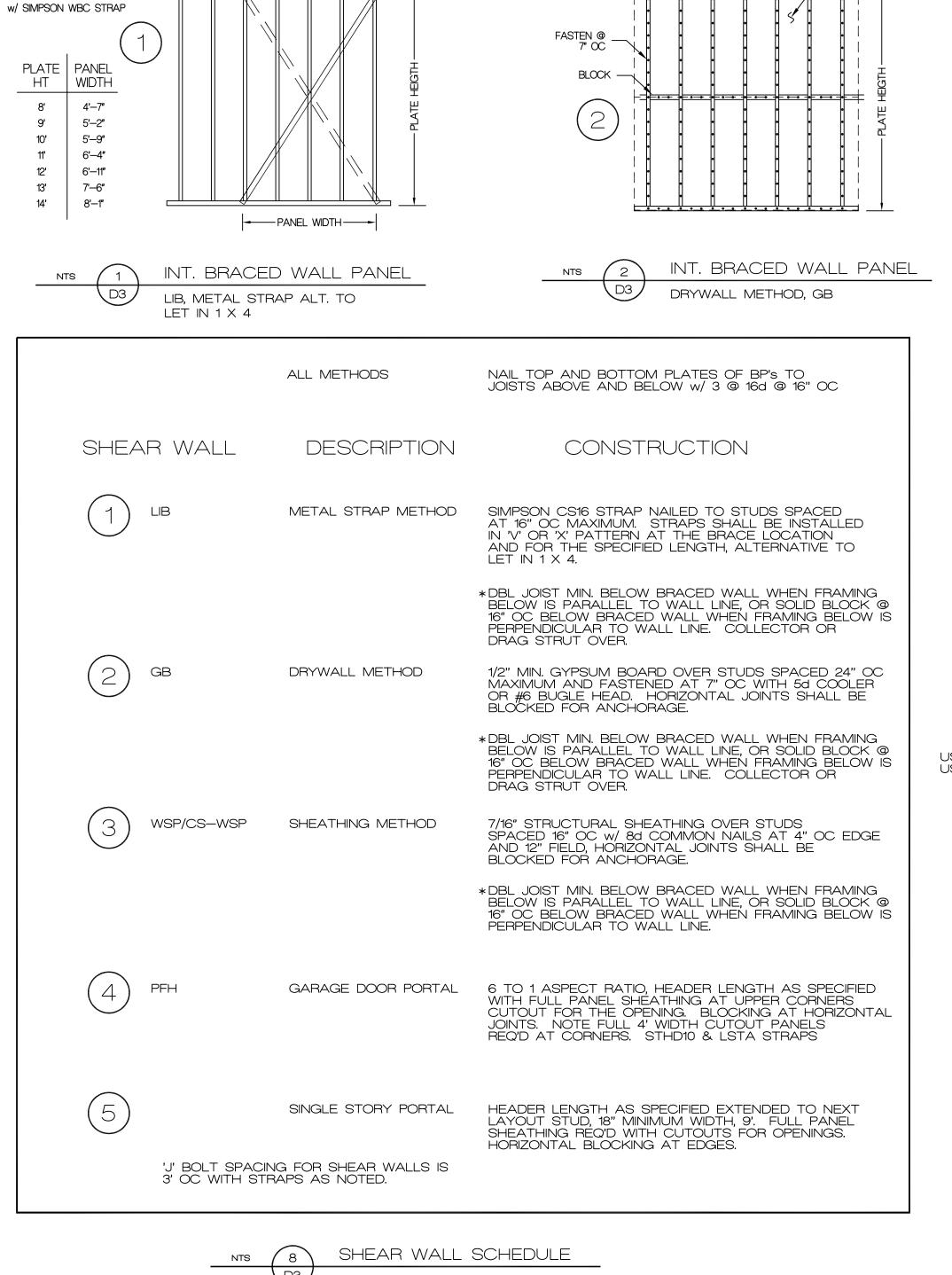


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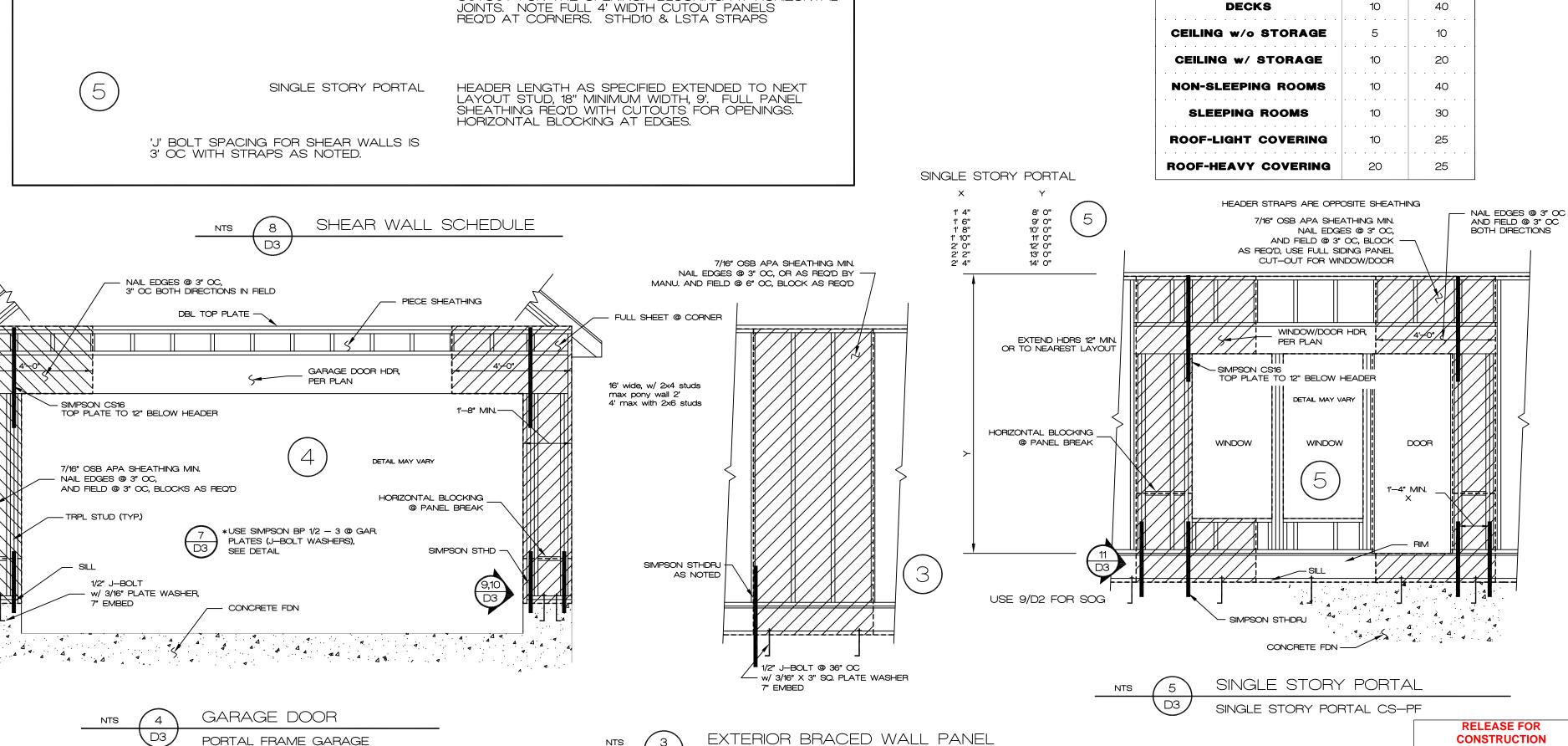




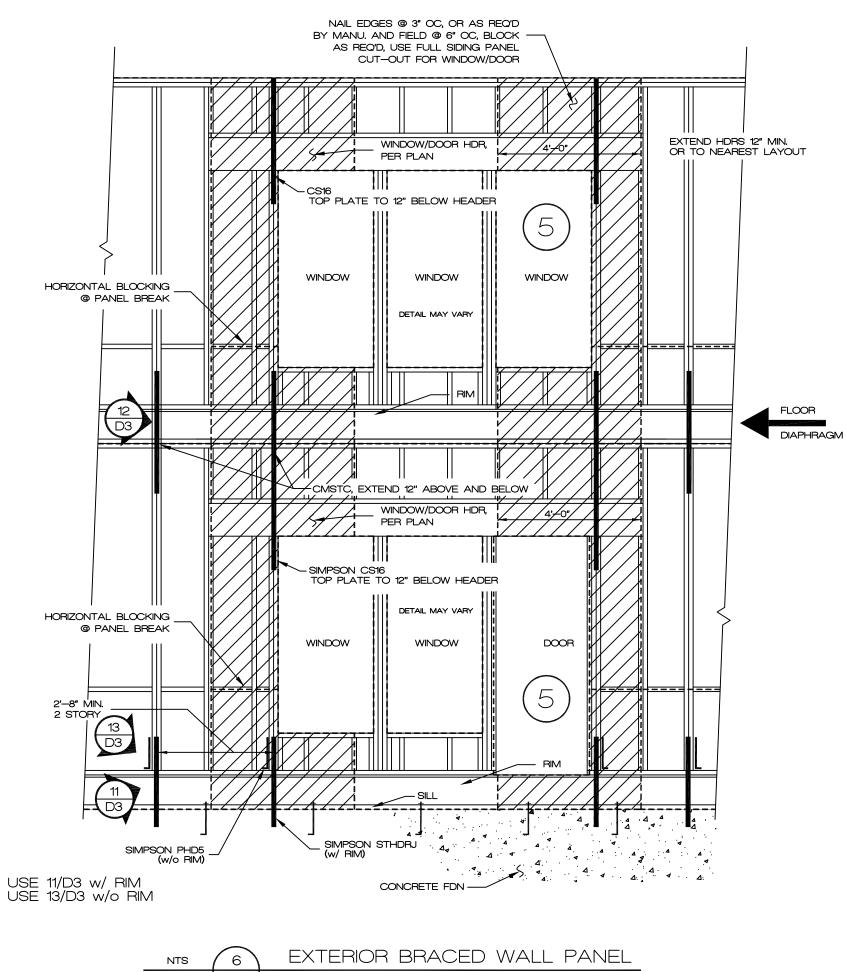
RIM JOIST INSTALLATION



INTERIOR BRACED PANELS



- GYP, BOARD



MULTI STORY PORTAL CS-PF

LOCATION

EXTERIOR BALCONIES

LOAD TABLE

MIN. DL MIN. LL

(PSF)

60

10 7/16" OSB APA SHEATHING MIN.

REVISIONS

ISSUE DATI

2018 DETAIL SHEE

KENNETH SIDOROWICZ NUMBER E-19986

D3

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI