

## BASIS OF DESIGN 1. GOVERNING BUILDING CODE ROOF DEAD LOAD (TILE) ROOF LIVE LOAD .... 20 PSF 25 PSF FLOOR LIVE LOAD ... 3. SEISMIC DESIGN: SHEAR WALL $S_0=0.183$ $S_1=0.109$ $S_{DS}=0.195$ $S_{D1}=0.173$ R=6.5SITE CLASS (ASSUMED) ..... BASIC WIND SPEED... SOIL BEARING PRESSURE (ASSUMED PER 2018 IBC 1806.2)...... 1500 PSF

#### GENERAL

A. BECOME FAMILIAR WITH ALL PORTIONS OF THE CONTRACT DOCUMENTS AND ENSURE THAT ALL SUBCONTRACTORS ARE FAMILIAR WITH HOSE PORTIONS PERTAINING TO THEIR AREA OF WORK. NO DEVIATIONS WILL BE ALLOWED UNLESS AGREED UPON BY ALL PARTIES IN WRITING PRIOR TO CONSTRUCTION OR FABRICATION.

B. VERIFY ALL DIMENSIONS AND ELEVATIONS. COORDINATE ALL DOORS, WINDOWS, NON-BEARING INTERIOR AND EXTERIOR WALLS, ELEVATIONS, SLOPES, STAIRS, CURBS, DRAINS, RECESSES, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES, CHAMFERS, KERFS, ETC.

C. FIELD VERIFY ALL SITE CONDITIONS AND IMMEDIATELY NOTIFY
THE ARCHITECT AND STRUCTURAL ENGINEER REGARDING ACTUAL CONDITIONS
AT THE SITE WHICH ARE NOT PER THE DRAWINGS. D. COORDINATE ALL WORK BETWEEN THE VARIOUS TRADES AND SUBCONTRACTORS. REPORT ANY MODIFICATIONS TO THE STRUCTURAL PORTION OF THE BUILDING BY OTHER TRADES TO THE ARCHITECT AND STRUCTURAL ENCHAPPER.

E. BE RESPONSIBLE FOR SAFETY AND PROTECTION IN AND AROUND THE JOB SITE AND/OR ADJACENT PROPERTIES.

A. REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE DRAWINGS.

B. DETAILS, SECTIONS AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO ALL SIMILAR SITUATIONS ELSEWHERE, UNLESS NOTED OR SHOWN OTHERWISE.

C. THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE. D. INFORMATION ON DRAWINGS INDICATING EXISTING CONDITIONS IS BASED ON BEST PRESENT KNOWLEDGE, BUT MAY NOT BE ENTIRELY ACCURATE AND MUST BE FIELD VERIFIED.

3. BUILDING CODE COMPLIANCE:

MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND STANDARDS. ASTM AND IBC DESIGNATIONS SHALL BE AS AMENDED TO LATEST DATE UNLESS NOTED OTHERWISE.

REQUIRED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND/OR OTHER DRAWINGS PRIOR TO CONSTRUCTION. REPORT OPENINGS REQUIRED WHICH ARE NOT SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW. B. COORDINATE ANY CONSTRUCTION SITUATION NOT COVERED BY THESE PLANS, GENERAL NOTES, OR SPECIFICATIONS WITH THE ARCHITECT AND STRUCTURAL ENGINEER.

5. CONSTRUCTION SEQUENCE, SHORING, AND BRACING REQUIREMENTS:

MEANS, AND SEQUENCE OF ALL STRUCTURAL ERECTION EXCEPT WHEN SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. HE SHALL PROVIDE TEMPORARY SHORING AND BRACING AS HIS METHOD OF ERECTION REQUI TO PROVIDE ADEQUATE VERTICAL AND LATERAL SUPPORT DURING ERECTION. THIS SHORING AND BRACING SHALL REMAIN IN PLACE UNTIL ALL PERMANENT MEMBERS ARE PLACED AND ALL FINAL CONNECTIONS ARE COMPLETED, INCLUDING ALL ROOF AND FLOOR ATTACHMENTS.

B. SHORING AND SUPPORTING FORM WORK FOR SUSPENDED CONCRETE OF MASONRY MATERIAL SHALL REMAIN IN PLACE AND SHALL NOT BE REMOVED UNTIL THE STRUCTURAL MEMBERS HAVE ACQUIRED SUFFICIENT STRENGTH T SAFELY SUPPORT THEIR OWN WEIGHT AND ANY ADDITIONAL CONSTRUCTION STORAGE, AND/OR OTHER LOADS TO WHICH THEY MAY BE SUBJECTED. I NO CASE SHALL THEY BE REMOVED PRIOR TO 7 DAYS. RE-SHORING SHALI BE IMMEDIATELY INSTALLED UPON REMOVAL OF SUCH FORMS AND SHALL EMAIN IN PLACE UNTIL 28 DAYS AFTER PLACING OF MATERIAL OR UNTIL MATERIAL HAS REACHED ITS 28 DAY DESIGN STRENGTH, WHICHEVER IS LONGER. DO NOT REMOVE LARGE AREAS OF SHORING BEFORE STARTING RE-

C. NON-BEARING INTERIOR WALLS SHALL BE ADEQUATELY BRACED TO THE STRUCTURE ABOVE WITH ALLOWANCE FOR DEFLECTION OF THE STRUCTURE ABOVE AND/OR BELOW.

BUILDING WALLS WHICH RETAIN EARTH MUST BE BRACED AT THE COMPLETE FLOOR OR ROOF SYSTEM IS IN PLACE, TYPICAL, UNLESS NOTED

6. OMISSIONS AND/OR CONFLICTS:

OMISSIONS IN AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER AND SHALL BE RESOLVED BY THE SAME BEFORE PROCEEDING WITH ANY WORK INVOLVED.

B. IN CASE OF CONFLICTS IN THE STRUCTURAL WORK, THE MOST STRINGENT REQUIREMENTS, AS DIRECTED BY THE ARCHITECT AND STRUCTURAL ENGINEER, SHALL BE IMPLEMENTED AT NO ADDITIONAL COST

7. MISCELLANEOUS: A. DURING AND AFTER CONSTRUCTION, THE CONTRACTOR AND/OR SHALL KEEP THE LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE

B. OBSERVATION VISITS TO THE SITE BY REPRESENTATIVES OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL NOT BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION. 8. SUBMITTALS:

A. THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION, ERECTION, INSTALLATION, OR OTHERWISE BEING INCORPORATED INTO THE

REINFORCING STEEL SHOP DRAWINGS. STRUCTURAL STEEL SHOP DRAWINGS. ENGINEERED TRUSS DRAWINGS.

• THESE SUBMITTALS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF LICENSURE OF THE ENGINEER OF RECORD. B. A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE REVIEW OF ALL SUBMITTALS BY THE ARCHITECT AND STRUCTURAL ENGINEER.

C. REQUESTS FOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER IN WRITING. REASON(S) FOR THE REQUEST AND COST DIFFERENTIALS SHALL BE INCLUDED IN THE REQUESTS. SUBSTITUTIONS ARE NOT ALLOWED UNLESS APPROVED IN WRITING BY THE ARCHITECT AND STRUCTURAL ENGINEER.

### SITE PREPARATION

A. DO NOT PLACE FOOTINGS OR FOUNDATIONS ON DISTURBED SOILS UNDOCUMENTED FILL, DEBRIS, FROZEN SOIL, OR IN PONDED WATER. B. ALL UNSUITABLE SOILS AND VEGETATION, SUCH AS TOPSOIL, ORGANIC SOILS, UNDOCUMENTED FILL, DISTURBED NATIVE SOILS, AND OTHER DELETERIOUS MATERIALS, SHALL BE REMOVED FROM BELOW FOOTINGS, FOUNDATIONS, AND FLOOR SLABS.

#### CONCRETE

1. CODES AND STANDARDS

A. CONCRETE WORK SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) EDITIONS OF:

 ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". II. ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". III. ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK".

A. CEMENT SHALL CONFORM TO ASTM C150, TYPE II, PORTLAND CEMENT. B. HARD ROCK AGGREGATES SHALL CONFORM TO ASTM C33. LIGHTWEIGHT AGGREGATES SHALL CONFORM TO ASTM C330.

D. AIR ENTERTAINMENT SHALL CONFORM TO ASTM C260.

E. FLY ASH SHALL CONFORM TO ASTM C618.

F. CALCIUM CHLORIDE SHALL NOT BE USED. A. ONLY ONE TYPE OF CONCRETE SHALL BE PLACED AT THE SITE AT ANY

B. A MIX DESIGN THAT PRODUCES THE LOWEST SLUMP COMPATIBLE WITH PROPER PLACEMENT SHALL BE USED, 4" MAXIMUM.

C. CONCRETE MIXES SHALL CONFORM TO THE FOLLOWING:							
TYPE OF CONCRETE MEMBER	MINIMUM STRENGTH AT 28 DAYS (PSI)	MAX. W/C (RATIO)	DRY WEIGHT (PCF)	MAX AGGREGATE SIZE (INCHES)	AIR ENTRAINMENT (%)	MIN. CEMENT PER YARD (LBS)	
FOOTINGS:	2500	0.50	145	0'-0 3/4"	3 ±-1	517	
FOUNDATION WALLS:	2500	0.45	145	0'-0 3/4"	3 ±-1	564	
SLAB ON GRADE:							
INTERIOR	2500	0.45	145	0'-0 3/4"	3 ±-1	564	
EXTERIOR	2500	0.45	145	0'-0 3/4"	6 ±-1	564	
SLABS ON DECK:							
LT. WT.*	2500	0.53	110	0'-0 3/4"	6 ±-1	564	
COLUMNS:	2500	0.45	145	0'-0 3/4"	3 ±-1	564	

2500 0.45 145 0'-0 3/4" 3 ±-1 564

\* LT. WT. CONCRETE SHALL HAVE A MIN. SPLITTING TENSILE STRENGTH OF 450 PSI. D. LIMIT FLY ASH TO 15% OF THE TOTAL CEMENTITIOUS MATERIAL. E. PEA GRAVEL AGGREGATE AND/OR PLASTICIZER MAY BE USED IN CONGESTED AREAS WHEN REQUIRED TO PROPERLY FILL ALL VOIDS AND/OR FOR WORKABILITY. (CONTRACTOR'S OPTION).

A. CONCRETE SHALL BE PROPERLY VIBRATED DURING PLACEMENT B. PRIOR TO PLACING CONCRETE, CHECK WITH ALL TRADES TO

ENSURE PROPER PLACEMENT OF OPENINGS, BLOCK OUTS, SLEEVES, CURBS CONDUITS, BOLTS, INSERTS, EMBEDS, DOWELS, ETC. ANCHOR BOLTS AND DOWELS SHALL BE PLACED PRIOR TO CASTING CONCRETE C. CONSTRUCTION JOINTS AND BULKHEADS SHALL BE FORMED WITH A KEY WAY. ALL CONTACT SURFACES, NEW OR EXISTING, AT CONSTRUCTION JOINTS SHALL BE INTENTIONALLY ROUGHENED PRIOR TO CASTING ADJACENT POUR.

D. OPENINGS IN FLOORS AND/OR WALLS SHALL HAVE ADDITIONAL REINFORCING AROUND ALL SIDES OF THE OPENING EQUIVALENT TO THE BARS CUT BY THE OPENING WITH HALF ON EACH SIDE OF THE OPENING OR 2-#5 BARS, WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE. BARS PARALLEL TO THE PRINCIPAL REINFORCING SHALL RUN FULL LENGTH OF THE SPAN. BARS IN THE OTHER DIRECTION SHALL RUN 24 INCHES BEYOND THE EDGE OF THE OPENING OR END WITH A STANDARD HOOK. ALSO PROVIDE 2-#5 x 4'-0" DIAGONAL BARS AT EACH CORNER OF EACH OPENING.

E. NO PENETRATION SHALL BE ALLOWED THROUGH ANY CONCRETE BEAM, JOIST, COLUMN, PIER, OR JAMB WITHOUT THE ARCHITECT'S AND STRUCTURAL ENGINEER'S PRIOR WRITTEN APPROVAL. PENETRATIONS SHALL BE RE-ROUTED AS REQUIRED AT THESE LOCATIONS.

FOOTINGS SHALL BEAR ON PROPERLY PREPARED MATERIAL. SEE

B. FOOTINGS SHALL BE CENTERED BELOW THE WALL AND/OR COLUMN ABOVE, TYPICAL UNLESS NOTED OTHERWISE.

C. EXTERIOR FOOTINGS SHALL BEAR BELOW THE EFFECTS OF FROST D. PROVIDE 2x4 BEVELED KEY WAYS IN ALL CONTINUOUS WALL FOOTINGS. E. STAGGER FOOTING CONSTRUCTION JOINTS FROM WALL CONSTRUCTION JOINTS ABOVE BY AT LEAST 6 FEET.

F. REINFORCING IN CONTINUOUS FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND/OR INTERSECTIONS BY PROVIDING PROPER LAP LENGTHS AND/OR CORNER BARS.

G. NO PENETRATIONS SHALL BE ALLOWED THROUGH ANY CONCRETE FOOTING. WHEN CONFLICTS ARISE BETWEEN UNDERGROUND PLUMBING, UTILITIES, ETC., THE FOOTING SHALL BE STEPPED DOWN BELOW THE CONFLICT AND A CONCRETE WALL, PIER, COLUMN, ETC., SHALL BE EXTENDED TO THE FOOTING

H. BEARING SURFACES FOR FOOTINGS WHICH ARE, OR BECOME, UNDERMINED DURING CONSTRUCTION SHALL BE BACKFILLED WITH A LEAN-MIX CONCRETE (1000 PSI MIN.).

6. SLABS ON GRADE: A. INTERIOR SLABS ON GRADE SHALL BE A MINIMUM OF 4 INCHES THICK, SHALL BEAR ON A 4 INCH MINIMUM LAYER OF FREE-DRAINING GRAVEL, AND SHALL BE REINFORCED WITH #4 BARS AT 24" O.C. BOTH WAYS, TYPICAL UNLESS NOTED OTHERWISE. PROVIDE CHAIRS WITH SAND PLATES FOR PROPER PLACEMENT

B. LARGE AREAS OF INTERIOR SLABS ON GRADE SHALL BE PLACED IN STRIPS NOT TO EXCEED 120 FEET IN LENGTH NOR 30 FEET IN WIDTH WHICH ARE SUBDIVIDED BY CONSTRUCTION AND/OR CONTRACTION (CONTROL) JOINTS INTO ROUGHLY SQUARES WHOSE SIDES SHALL NOT EXCEED 15 FEET IN EITHER DIRECTION.

C. SEE ARCHITECTURAL FOR EXTERIOR SLABS ON GRADE, TYPICAL, UNLESS NOTED OTHERWISE.

MASONRY VENEER ANCHOR TIES

A. MASONRY VENEER ANCHOR TIES SHALL BE ONE OF THE FOLLOWING: DOVETAIL ANCHORS.

II. DX-10 SEISMIC CLIP INTERLOCK SYSTEM BY HOHMANN & BARNARD III. ARCHITECT AND STRUCTURAL ENGINEER APPROVED TWO PIECE ADJUSTABLE HOT-DIPPED GALVANIZED TIES.

A. MAXIMUM SPACING SHALL BE 16" O.C. HORIZONTAL AND VERTICAL. B. PROVIDE CONTINUOUS HORIZONTAL GALVANIZED #9 WIRE IN CENTER THIRD OF MORTAR JOINTS AT 16" O.C. ENGAGE #9 WIRE

C. CONSTRUCTION JOINTS IN MASONRY VENEER WALLS SHALL BE PROVIDED AS PER THE ARCHITECTURAL DRAWINGS, AND SHALL BE SPACED AT A MAXIMUM OF 15'-0" O.C. FOR MASONRY BLOCK VENEER.

REINFORCING STEEL

1. CODES AND STANDARDS:

A. REINFORCING STEEL SHALL COMPLY WITH: I. AMERICAN CONCRETE INSTITUTE BUILDING CODE & COMMENTARY II. AMERICAN CONCRETE INSTITUTE "DETAILING MANUAL", ACI 315 (OR SP-66).

REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS ANI SHALL CONFORM TO ASTM A615, GRADE 60, WITH A DESIGN YIELD STRENGTH OF 60,000 PSI, EXCEPT AS NOTED BELOW.

SHALL BE ASTM A615, GRADE 40 OR ASTM A706, GRADE 60, "LOW ALLOY STEEL".

II. REINFORCING TO BE WELDED SHALL BE ASTM A706, GRADE 60, "LOW-ALLOY STEEL". . MASONRY JOINT REINFORCING SHALL BE MANUFACTURED FROM WIRE WHICH CONFORMS TO ASTM A82.

A. REINFORCING SHALL BE DETAILED, BOLSTERED, AND SUPPORTED

B. REINFORCING STEEL SHALL BE FREE OF LOOSE, FLAKY RUST, SCALE, GREASE, OIL, DIRT, AND OTHER MATERIALS WHICH MIGHT

AFFECT OR IMPAIR BOND. C. REINFORCING SHALL BE CONTINUOUS IN WALLS, BEAMS, COLUMNS, SLABS, FOOTINGS, ETC.

D. SPLICES IN CONTINUOUS REINFORCING SHALL BE MADE IN AREAS OF COMPRESSION AND/OR AT POINTS OF MINIMUM STRESS, TYPICAL UNLESS NOTED OTHERWISE. LAP SPLICES SHALL BE 40 BAR DIAMETERS LONG IN CONCRETE AND 48 BAR DIAMETERS LONG IN MASONRY. MINIMUM LAP SHALL BE 24 INCHES LONG. DOWELS SHALL HAVE A MINIMUM OF 30 BAR DIAMETERS EMBEDMENT. TENSION SPLICES SHALL BE USED IN CONCRETE WHEN SPECIFICALLY NOTED, USE A CLASS B SPLICE. SPLICES IN TOP BARS IN SUSPENDED SLABS AND BEAMS SHALL BE MADE AT MID SPAN. SPLICES IN BOTTOM BARS IN SUSPENDED SLABS AND BEAMS SHALL BE MADE AT SUPPORTS.

E. BENDS SHALL BE MADE COLD. DO NOT USE HEAT. BENDS SHALL BE DONE IN THE FABRICATOR'S SHOP UNLESS SPECIFICALLY NOTED FOR THE FIELD. DO NOT UN-BEND OR RE-BEND A PREVIOUSLY DEPART DATE.

F. REINFORCING STEEL IN CONCRETE SHALL BE SECURELY ANCHORED AND TIED IN PLACE PRIOR TO PLACING CONCRETE AND SHALL BE POSITIONED WITH THE FOLLOWING MINIMUM CONCRETE COVER: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH..... CONCRETE EXPOSED TO EARTH OR WEATHER: #6 AND LARGER... #5 AND SMALLER... CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS AND WALLS, #11 AND SMALLER..... BEAMS AND COLUMNS, MAIN REINFORCING OR TIES...... 1 1/2" SLABS ON GRADE...... CENTER OF SLAB G. REINFORCING STEEL IN MASONRY SHALL BE PLACED PRIOR TO

GROUTING AND SHALL BE PLACED, POSITIONED, AND LOCATED ACCORDING TO THE STRUCTURAL DRAWINGS. IT SHALL BE SECURED AGAINST DISPLACEMENT AT INTERVALS NOT TO EXCEED 200 BAR DIAMETERS OR TEN FEET.

H. NO REINFORCING STEEL SHALL BE WELDED UNLESS SPECIFICALLY NOTED AS SUCH. USE E90XX ELECTRODES AND ASTM A706 REINFORCING. I. EPOXY COATED REINFORCING BARS SHALL BE USED WHEN SPECIFICALLY NOTED. INCREASE LAP SPLICE LENGTHS AS REQUIRED BY THE IBC.

STRUCTURAL STEEL

1. CODES AND STANDARDS: A. STRUCTURAL STEEL WORK SHALL COMPLY WITH: I. THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
"SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", WITH
"COMMENTARY".

II. AISC "CODE OF STANDARD PRACTICE" EXCLUDING SECTIONS 1.51, 3.3 (1ST SENTENCE), 4.2, 7.5.4, AND 7.11.5. III. AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE", EXCLUDING ITEMS CONFLICTING WITH AISC REQUIREMENTS

A. STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A572 GRADE 50 ENHANCED STEEL. STRUCTURAL STEEL PLATES SHALL CONFORM TO ASTM A36. B. STRUCTURAL TUBE STEEL SHALL CONFORM TO ASTM A500, GRADE B, WITH A MINIMUM YIELD STRENGTH Fy=46 KSI. C. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53, WITH A MINIMUM YIELD STRENGTH Fy=36 KSI.

D. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325. ALL OTHER BOLTS SHALL CONFORM TO ASTM A307 OR BETTER. E. WELDED ANCHOR STUDS AND DEFORMED BAR ANCHORS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.

A. FABRICATION SHALL BE DONE IN AN APPROVED FABRICATOR'S

B. CAMBER IN BEAMS SHALL BE AS INDICATED ON PLANS. C. PROVIDE A SHOP COAT OF PAINT ON ALL STEEL ITEMS, EXCEPT AT AREAS OF WELDING AND/OR BOLTING.

D. USE HIGH STRENGTH (8000 PSI MINIMUM AT 28 DAYS), NON-SHRINK, LIQUID EPOXY GROUT BENEATH ALL STEEL BASI PLATES AND BEARING PLATES. MIX GROUT WITH SAND OR PEA GROUT AS SOON AS STEEL MEMBER HAS BEEN PROPERLY

E. WHERE STRUCTURAL STEEL WIDE FLANGE, PIPE, OR TUBE SECTIONS ARE EMBEDDED IN CONCRETE OR MASONRY AND REINFORCING BARS BUTT TO IT, DEFORMED BAR ANCHORS OR THE ADJACENT REINFORCING BARS, 48 BAR DIAMETERS LONG, SHALL BE WELDED TO THE STRUCTURAL STEEL. THE MANUFACTURER'S WELDING PROCEDURES SHALL BE ADHERED TO.

4. BOLTED CONNECTIONS: A. BOLTS SHALL BE 3/4" DIAMETER, UNLESS NOTED OTHERWISE. B. BOLT SHALL BE BEARING TYPE CONNECTIONS UNLESS NOTED

C. STEEL TO STEEL BOLTED CONNECTIONS SHALL BE MADE WITH ASTM A325 HIGH STRENGTH BOLTS AND NUTS, UNLESS NOTED OTHERWISE. BOLTS SHALL CARRY THE IDENTIFYING MARK OF

D. ALL OTHER BOLTED CONNECTIONS SHALL BE MADE WITH BOLTS AND NUTS CONFORMING TO ASTM A307 UNLESS NOTED OTHERWISE, INCLUDING ANCHOR BOLTS. HAVE WASHERS AS REQUIRED BY AISC UNLESS NOTED

F. ENLARGING OF HOLES SHALL BE ACCOMPLISHED BY MEANS OF REAMING. DO NOT USE A TORCH ON ANY BOLT HOLES.

A. WELDED CONNECTIONS SHALL BE MADE USING LOW HYDROGEN MATCHING FILLER MATERIAL ELECTRODES, UNLESS NOTED OTHERWISE. B. WELDERS SHALL BE CURRENTLY CERTIFIED ACCORDING TO AWS WITHIN THE LAST 12 MONTHS. ALL WELDING PROCEDURES SHALL FOLLOW WELDING DECOMPOSED STATES.

C. WELDING AND GAS CUTTING SHALL BE DONE PER AWS. D. WELDS SHALL HAVE THE SLAG REMOVED.

GENERAL FRAMING NOTES 1. ALL JOISTS, RAFTERS, POSTS AND HEADERS SHALL BE DOUGLAS FIR LARCH NO.2 OR EQUAL U.N.O. IF TJI'S OR EQUAL ARE USED, THEY MUST BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS. ALSO PROVIDE BRIDGING • 8' O.C. FOR

2. ALL JOISTS AND RAFTERS SHALL HAVE SOLID BLOCKING AT THEIR BEARING POINTS. ROOF JOISTS TO HAVE HURRICANE CLIPS AT 24"

3. ALL WOOD/LUMBER PLACED ONTO CONCRETE SHALL BE PRESSURE TREATED OR REDWOOD. 4. ALL WOOD CONNECTIONS MUST CARRY THE CAPACITY OF THE MEMBER, CONTRACTOR IS RESPONSIBLE FOR CONNECTIONS. IF OTHER THAN STANDARD CONNECTIONS ARE REQUIRED, SEE PROJECT ENGINEER FOR ADDITIONAL ASSISTANCE. USE SIMPSON OR EQUAL CONNECTIONS FOR WOOD TO WOOD.

5. ALL COLUMNS SHALL EXTEND DOWN THROUGH THE STRUCTURE TO THE FOUNDATION. ALL COLUMNS SHALL BE BRACED AT ALL FLOOR LEVELS. COLUMNS SHALL BE AS WIDE AS THE MEMBER THEY SUPPORT. HEATHING OR EQUAL WITH 8d NAILS @ 6" O.C. EDGÉS AND @ 12" O.C. IN THE FIELD - BLOCKED, UNLESS OTHERWISE NOTED. 7. ALL FLOOR SHEATHING TO BE 3/4" THICK T&G SHEATHING GLUED AND NAILED WITH 10d COMMON NAILS OR EQUAL ● 6" O.C. EDGES AND ● 10" O.C. IN THE FIELD.

3. VERIFY ALL BEAM SIZES WITH ENGINEERING SPECIFICATIONS. 9. ALL BEAMS AND HEADERS OVER 48" SHALL BE SUPPORTED BY DOUBLE TRIMMERS UNLESS NOTED OTHERWISE. 10. TRUSS MANUFACTURER SHALL PROVIDE ENGINEERING SPECS. FOR

11. USE 7/16" O.S.B. OR CDX PLYWOOD SHEATHING WITH 8d NAILS @ 6" O.C. AT EDGES OF ROOF 10d NAILS ● 4" O.C. AT GABLE ENDS SPACE NAILS 12" O.C. ON INTERMEDIATE MEMBERS PLYWOOD PERP. TO RAFTERS AND TRUSSES

12. SOLID BLOCK BETWEEN TRUSSES. HOLD DOWN EVERY 3RD BLOCK FOR ATTIC VENTILATION.

13. ALL OVER FRAME AREAS TO HAVE FULL ROOF SHEATHING BELOW. 14. PROVIDE SQUASH BLOCKING AT RIM JOIST BELOW ALL POSTS FROM ROOF, HEADER OR BEAM POINT LOADS. 15. PROVIDE DOUBLE FLOOR JOISTS BELOW ALL PARALLEL BEARING WALLS

FRAMING LUMBER SHALL BE HEM FIR OR BETTER UNLESS A HIGHER GRADE IS NOTED OTHERWISE. GLULAM BEAMS SHALL BE 24F-V4 DF/DF FOR SINGLE SPANS AND 24F-V8 DF/DF FOR MULTIPLE SPANS, AND CANTILEVERED SPANS. 18. ALL RAFTERS AND JOISTS OVER THREE FEET LONG SHALL BE HANGERED IF NOT SUPPORTED BY BOTTOM BEARING. ALL HANGERS AND OTHER WOOD CONNECTIONS MUST BE DESIGNED TO CARRY THE CAPACITY OF THE MEMORIES WILLIAM SUPPORTED TO CARRY THE CAPACITY OF THE

19. FRAMING CONNECTIONS NOTED ON THE DRAWINGS ARE SIMPSON STRONGTIE OR EQUAL. INSTALL WITH THE CATALOG DESIGNATED CONNECTOR

20. NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED UNLESS SPECIFICALLY SHOWN, NOTED OR APPROVED BY ENGINEER. 21. LAG SCREWS SHALL BE INSERTED IN A DRILLED PILOT HOLE 60%-75% OF THE SHANK DIAMETER BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER. ALL NUTS, BOLTS AND LAG SCREWS SHALL BE PROVIDED WASHING WASHINGTON WASHINGTON

22. NAILS TO BE COMMON WIRE UNLESS OTHERWISE NOTED

23. ALL BOLT HOLES SHALL BE DRILLED WITH A BIT 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. 24. ALL JOINTS IN WALL SHEATHING SHALL OCCUR IN THE MIDDLE OF A

NAILING PER SHEARWALL SCHEDULE. 25. ALL OVER BUILT ROOF RAFTERS SHALL BE BRACED VERTICALLY TO THE TRUSSES BELOW AT 6'-0" O.C. MAXIMUM IN ORDER TO SPREAD THE LOAD

PLATE OR BLOCK AND NAILED ON EACH SIDE OF THE JOINT WITH EDGE

26. PROVIDE 1/2" MINIMUM CLEARANCE BETWEEN TOP PLATE OF INTERIOR PARTITIONS AND BOTTOM CHORD OF TRUSSES (TO ENSURE THAT LOADING WILL BE AS DESIGNED).

27. DOUBLE TOP PLATE WITH MINIMUM 48" LAP SPLICE. DECKS EXPOSED TO THE WEATHER OR TO WATER SPIASH OR IN BASEMENTS, AND WHICH SUPPORT PERMANENT STRUCTURES, SHALL BE SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS PROJECTING ABOVE FLOORS UNLESS APPROVED WOOD OF NATURAL RESISTANCE BO DECAY OR TREATED WOOD IS USED. THE PEDESTALS SHALL PROJECT AT LEAST 6" ABOVE EXPOSED EARTH AND AT LEAST 1" ABOVE SUICH FLOORS. AND AT LEAST 1" ABOVE SUCH FLOORS.

29. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE IBC, AND LOCAL ORDINANCES. 30. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING CONSTRUCTION.

WOOD TRUSS NOTES

BOTTOM CHORDS OF TRUSSES, ACTING AS CEILING MEMBERS MUST BE ABLE TO SUPPORT A 10 PSF LIVE LOAD PER IBC REQUIREMENTS. 2. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THE PRE-ENGINEERED TRUSSES, AND SHALL DESIGN THE TRUSSES PER ATTACHED ENGINEERING SPECS.

3. THE TRUSSES SHALL BE DESIGNED TO CARRY ANY ADDITIONAL LOADS DUE TO MECHANICAL UNITS, OVERHEAD DOORS, ROOF OVERBUILDS, ETC.

4. THE TRUSSES SHALL ALSO BE DESIGNED PER THE IBC, AND LOCAL ORDINANCES. ALL MEMBERS SHALL BE DESIGNED FOR COMBINED STRESSES, BASED ON 6. THE TRUSS MANUFACTURER SHALL INDICATE PROPER BRACING OF

COMPRESSION CHORD MEMBERS • 6'-0" LONG (OR LONGER), AS WELL AS BRACING 7. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION. 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE TRUSSES PER THE TRUSS MANUFACTURERS RECOMMENDATIONS AND

SPECIFICATIONS. NO WEB OR CHORD MEMBERS SHALL BE MODIFIED IN THE FIELD. 9. THE PROJECT ENGINEER, OR ENGINEER OF RECORD, IS NOT RESPONSIBLE FOR THE PROJECT ENGINEERED TRUSSES, NOR FOR THE INSTALLATION ETC. OF THE TRUSSES. TRUSS PLANT SHALL PROVIDE LICENSED ENGINEERED PLAN. (CONTRACTOR TO VERIFY TRUSS LAYOUT IS CONSISTENT WITH THESE PLANS. ENGINEER SHOULD BE NOTIFIED OF ANY DEVIATION).

10. FABRICATION OF TRUSSES SHALL BE AS APPROVED BY TPI EXCEPT THAT

THIS SPECIFICATION SHALL GOVERN WHEN IT EXCEEDS TPI REQUIREMENTS. 12. FABRICATE TRUSSES IN JIGS WITH MEMBERS ACCURATELY CUT TO PROVIDE GOOD BEARING AT JOINTS. JOINTS SHALL BE ACCEPTABLE IF THE AVERAGE OPENING BETWEEN ENDS OF MEMBERS IMMEDIATELY AFTER FABRICATION IS LESS THAN 1/16", EXCEPT THAT TRUSS COMPRESSION CHORD JOINTS AT SPLICES AND RIDGES SHALL HAVE FULL CONTACT BETWEEN MEMBERS.

13. EACH CHORD SECTION SHALL BE INVOLVED IN TWO PANEL POINTS BEFORE 14. PROVIDE 1/8" CAMBER FOR EACH 6 FEET OF TRUSS UNLESS OTHERWISE INDICATED.

MASONRY

15. TRUSS FABRICATORS USING METAL PLATES SHALL HAVE PLANT INSPECTED FOUR TIMES PER YEAR BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH TPI REGULATIONS AND COPIES OF INSPECTIONS MADE

1. CODES AND STANDARDS A. MASONRY WORK SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE (ACI) 530, BUILDING CODE REQUIREMENTS FOR MASONRY

A. MASONRY WALL CONSTRUCTION SHALL CONSIST OF OF GRADE N, TYPE II, MEDIUM WEIGHT OR NORMAL-WEIGHT, CLOSED END, CONCRETE MASONRY UNITS (CMU's)

CONFORMING TO ASTM C90. MORTAR SHALL BE TYPE "S" AS DEFINED BY THE ACI AND SHALL CONFORM TO ASTM C270, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS. IT SHALL CONSIST OF 1.0 PART PORTLAND EMENT, 0.25 TO 0.5 PARTS HYDRATED LIME OR PUTTY LIME, AND 3.5 TO 4.5 PARTS SAND. ALL MEASUREMENTS ARE PARTS BY VOLUME.

NO ADDITIVES ARE ALLOWED. C. GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. IT SHALL BE OF A FLUID CONSISTENCY AND SHALL CONSIST OF A MINIMUM OF 1.0 PART PORTLAND CEMENT, 2.25 TO 3.0 PARTS SAND, AND MAY CONTAIN AN ADDITIONAL 1 TO 2 PARTS PEA GRAVEL IF GROUT SPACES ARE 4" OR MORE IN EVERY DIRECTION. ALL MEASUREMENTS ARE PARTS BY VOLUME. DO NOT USE FLY ASH IN GROUT.

D. PRISM TESTS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'M=1,500 PSI AT 28 DAYS.

A. ALL MASONRY BLOCK SHALL BE STORED UNDER COVER AT THE

C. MORTAR JOINTS SHALL BE TOOLED CONCAVE. D. DO NOT USE MORTAR FOR GROUT. E. DO NOT USE ANY FROZEN MATERIAL.

B. FACE SHELLS SHALL BE FULLY BEDDED.

F. GROUT SHALL BE POURED IN ACCORDANCE WITH LOW LIFT PROCEDURES PER THE IBC, TYPICAL, UNLESS NOTED OTHERWISE

G. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABLITTY IS LOST. H. ALL CELLS WHICH CONTAIN REINFORCING, BOLTS, ANCHORS,

ETC. AND AS OTHERWISE SPECIFIED SHALL BE GROUTED SOLID.
ALL CELLS WHICH ARE TO BE GROUTED SHALL BE CLEAN
AND FREE FROM DELETERIOUS MATERIALS. I. GROUT SOLID AROUND ALL JOIST AND BEAM ENDS, TYPICAL UNLESS NOTED OTHERWISE. J. HOLES FOR BOLTS IN MASONRY FACE OR END SHELLS SHALL HAVE A DIAMETER TWO INCHES LARGER THAN THE BOLT DIAMETER

AND THE HOLE SHALL BE FILLED WITH GROUT. K. NO PENETRATION SHALL BE ALLOWED THROUGH ANY MASONRY BEAM, COLUMN, PIER, OR JAMB WITHOUT THE ARCHITECT'S AND STRUCTURAL ENGINEER'S PRIOR WRITTEN APPROVAL. PENETRATIONS SHALL BE REROUTED AS REQUIRED AT THESE LOCATIONS.

L. PRIOR TO PLACING MASONRY, CHECK WITH ALL TRADES TO INSURE PROPER PLACEMENT OF OPENINGS, BLOCK OUTS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, EMBEDS, DOWELS, ETC.

A. MASONRY WALLS SHALL BE CONSTRUCTED UTILIZING COMMON RUNNING BOND, TYPICAL, UNLESS NOTED OTHERWISE. B. MASONRY WALLS SHALL BE BUILT AS AN INTEGRAL UNIT AT CORNERS AND INTERSECTIONS. REINFORCING SHALL BE CONTINUOUS AND BACK TO BACK END SHELLS SHALL BE REMOVED. C. MASONRY WALLS SHALL BE REINFORCED AS FOLLOWS, UNLESS NOTED OTHERWISE.

1-#4 @ 32" O.C. 1-#4 @ 48" O.C. 1-#5 ● 32° 0.C. 2-#3 **●** 48" 0.C. 1-#5 ● 32" O.C. 2-#4 **●** 48" 0.C. 1-#6 **9** 32" 0.C. 2-#4 **9** 48" 0.C. PROVIDE LADDER-TYPE JOINT REINFORCING CONSISTING OF 2-#9

WIRES (3-#9 WIRES AT VENEER) AT 16" O.C. HORIZONTALLY IN ALL MASONRY WALLS. SEE PLANS, SCHEDULES, AND DETAILS FOR OTHER D. PLACE VERTICAL REINFORCING IN THE CENTER OF THE WALL UNLESS EACH FACE IS SPECIFIED OR UNLESS NOTED OTHERWISE. E. VERTICAL REINFORCING SHALL BE DOWELED TO CONCRETE FOOTING OR FOUNDATION WALL BELOW AND TO STRUCTURE ABOVE WITH

F. PROVIDE VERTICAL REINFORCING IN GROUTED CELL AT ALL

THE SAME SIZE BAR AND SPACING, TYPICAL, UNLESS NOTED

CORNERS AND INTERSECTIONS. USE SAME SIZE BAR AND SPACING AS THE HORIZONTAL REINFORCING.

H. HORIZONTAL REINFORCING SHALL TERMINATE AT THE ENDS OF WALLS AND AT OPENINGS WITH A STANDARD HOOK. I. HORIZONTAL REINFORCING SHALL OCCUR AT THE TOP AND BOTTOM COURSE OF ALL MASONRY WALLS EXCEPT THE BOTTOM COURSE HORIZONTAL REINFORCING MAY BE OMITTED WHEN THE WALL IS DOWELED TO A CONCRETE FOUNDATION WALL BELOW.

. OPENINGS IN WALLS WHICH EXCEED 24 INCHES IN EITHER DIRECTION SHALL BE REINFORCED WITH A MINIMUM OF 2-#5
BARS IN GROUTED SPACE ON ALL SIDES OF THE OPENING, TYPICAL,
UNLESS NOTED OTHERWISE. VERTICAL BARS SHALL EXTEND THE FULL HEIGHT OF THE WALL BETWEEN SUPPORTS. HORIZONTAL BARS SHALL EXTEND A MINIMUM OF 24 INCHES BEYOND THE EDGES OF THE OPENING. K. PENETRATIONS THROUGH ANY MASONRY WALL SHALL BE BUILT INTO THE WALL AS THE WALL IS BEING CONSTRUCTED AND SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER

L. CONSTRUCTION JOINTS IN REINFORCED MASONRY WALLS SHALL NOT OCCUR AT THE EDGE OF BEAM SUPPORTS AND SHALL BE PROVIDED PER THE STRUCTURAL DRAWINGS.

M. WHERE HORIZONTAL REINFORCING BARS JOINT CONCRETE WALLS, COLUMNS, OR PILASTERS, REINFORCING SHALL BE CONTINUOUS.
ALSO, A KEY SHALL BE PROVIDED BETWEEN THE MASONRY AND THE CONCRETE. FILL KEY WITH GROUT. A. BEAMS SHALL BE BUILT AS AN INTEGRAL PART WITH THE SUPPORT. NO TOOTHING OR DOWELING ONLY WILL BE PERMITTED

MASONRY UNITS WITH ONE END OPEN-ENDED SHALL BE USED IN

SHALL EXTEND A MINIMUM OF 72 BAR DIAMETERS BEYOND THE EDGE

ALL MASONRY BEAMS. BACK-TO-BACK END SHELLS ARE NOT ALLOWED. GROUT ALL MASONRY BEAMS SOLID FOR FULL DEPTH AND WIDTH SHOWN IN MASONRY BEAM SCHEDULE. B. REINFORCING IN THE MASONRY BEAM SCHEDULE IS AN ADDITION TO STANDARD WALL REINFORCING. C. HORIZONTAL REINFORCING BARS IN THE TOP OF THE MASONRY BEAM SHALL BE PLACED IN THE TOP 4 INCHES OF THE BEAM AND

OF THE OPENING OR SHALL BE HOOKED IF REQUIRED. D. HORIZONTAL REINFORCING BARS IN THE BOTTOM OF THE MASONRY BEAM SHALL BE PLACED IN THE BOTTOM 4 INCHES OF THE BEAM AND SHALL EXTEND A MINIMUM OF 24 INCHES BEYOND THE EDGE OF

E. VERTICAL REINFORCING BARS SHALL HOOK AROUND THE BOTTOM REINFORCING BARS. THEY SHALL ALSO HOOK AROUND THE TOP HORIZONTAL REINFORCING BARS OR EXTEND INTO THE WALL ABOVE THE MASONRY BEAM A MINIMUM OF 48 BAR DIAMETERS.

F. DO NOT SPLICE HORIZONTAL TOP OR BOTTOM BARS, TYPICAL,

G. FOR OPENINGS NOT SHOWN, USE SIMILAR BEAM AS SHOWN IN THAT WALL OR TYPE OF WALL FOR SIMILAR OPENINGS. VERIFY WITH THE STRUCTURAL ENGINEER.

UNLESS NOTED OTHERWISE.

H. USE THE FOLLOWING MASONRY BEAM SIZES FOR OPENINGS IN NON-BEARING MASONRY WALLS: UP TO 4'-0" SAME AS WALL 2 #5 BOTTOM UP TO 8'-0" SAME AS WALL 2 #5 TOP & BOTTOM UP TO 10'-0" SAME AS WALL 2 #5 TOP & BOTTOM FOR WIDER OPENINGS CONTACT THE STRUCTURAL ENGINEER. THE MASONRY BEAM SCHEDULE FOR ADDITIONAL INFORMATION.

A. GROUT JAMBS SOLID FOR FULL HEIGHT OF WALL (FLOOR TO FLOOR AND/OR ROOF) AT SIDES OF OPENING; ONE CELL FOR EACH 4'-0' OF SPAN OR PORTION THEREOF. REINFORCE WITH 2-#5
VERTICAL BARS IN EACH GROUTED CELL WITH ONE BAR PLACED
AT EACH FACE OF WALL, TYPICAL, UNLESS NOTED OTHERWISE.
SEE PLANS, SCHEDULES, AND DETAILS FOR OTHER REINFORCING
REQUIREMENTS.

SPECIAL INSPECTION

C. FIELD WELDING OF STRUCTURAL STEEL

1. Special inspection shall be required for the following items per  $\,$ CHAPTER 17 OF THE IBC: A. INSTALLATION OF POST-INSTALLED CONCRETE ANCHORS PER MANUFACTURER'S SPECIFICATIONS.
B. MASONRY CONSTRUCTION (TYPE A)

MINIMUM NA	ILING SCHEDULE		
CONNECTION	NAILING		
1. JOIST TO SILL OR GIRDER, TOENAIL	(3) 8d		
2. BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d		
3. 1"x6" (25mm x 152mm) SUB FLOOR OR LESS TO EACH JOIST, FACE NAIL	(2) 8d		
4. WIDER 1"x6" (25mm x 152mm) SUB FLOOR TO EACH JOIST, FACE NAIL	(3) 8d		
5. 2" (51mm) SUB FLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	(2) 16d		
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	16d ● 16" (406mm) 0.C.		
SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS	(3) 16d PER 16" (406mm)		
7. TOP PLATE TO STUD, END NAIL	(2) 16d		
8. STUD TO SOLE PLATE	(4) 8d, TOENAIL OR (2) 18d, END NAIL		
9. DOUBLE STUDS, FACE NAIL	16d ● 24" (610mm) 0.C.		
10. DOUBLE TOP PLATES, TYPICAL FACE NAIL	16d ● 16" (406mm) 0.C.		
DOUBLE TOP PLATES, LAP SPLICE	(8) 16d		
11. BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE, TOENAIL	(3) 8d		
12. RIM JOIST TO TOP PLATE, TOENAIL	8d ● 6" (152mm) 0.C.		
13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	(2) 16d		
14. CONTINUOUS HEADER, TWO PIECES	6d ● 16" (408mm) O.C. ALONG EACH EDGE		
15. CEILING JOIST TO PLATE, TOENAIL	(3) 8d		
16. CONTINUOUS HEADER TO STUD. TOENAIL	(4) 8d		
17. CEILING JOIST LAPS OVER PARTITIONS, FACE NAIL	(3) 16d		
18. CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL	(3) 16d		
19. RAFTERS TO PLATE, TOENAIL	(3) 16d		
20. 1" (25mm) BRACE TO EACH STUD AND PLATE, FACE NAIL	(2) 8d		
21. 1"x8" (25mm x 203 mm) SHEATHING OR LESS TO EACH BEARING, FACE NAIL			
22. WIDER THAN 1"x8" (25mm x 203mm) SHEATHING TO EACH BEARING, FACE NAIL	(2) 8d (3) 8d		
23. BUILT-UP CORNER STUDS	16d ● 24" (610mm) 0.C.		
24. BUILT-UP GIRDER AND BEAMS	20d ● 32" (813mm) O.C. AT TOP & BOTTOM & STAGGERED, (2) 20d AT ENDS & AT EACH SPLICE		
25. 2" (51mm) PLANKS	(2) 16d AT EACH BEARING		
26. WOOD STRUCTURAL PANELS AND PARTICLEBOARD: 2	(W) TOUR AT EAROIT DEPARTMENT		
SUBFLOOR AND WALL SHEATHING (TO FRAMING):			
1/2" (12.7mm) AND LESS	6d <sup>3</sup>		
19/32" - 3/4" (15mm-19mm)	8d <sup>4</sup> 0R 6d <sup>5</sup>		
7/8" - 1" (22mm-25mm)	8d 3		
1 1/8" - 1 1/4" (29mm-32mm)	10d <sup>4</sup> 0R 8d <sup>5</sup>		
COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING):	Tour on our		
3/4" (19mm) AND LESS	6d <sup>5</sup>		
7/8" - 1" (22mm-25mm)	8d <sup>5</sup>		
1 1/8" - 1 1/4" (29mm-32mm)	10d <sup>4</sup> 0R 8d <sup>5</sup>		
27. PANEL SIDING (TO FRAMING) 2:	Tour on ou		
1/2" (12.7mm) OR LESS	6d <sup>5</sup>		
5/8" (16mm)	8d 5		
28. FIBERBOARD SHEATHING: 7			
1/2" (12.7mm)	No. 11 GA <sup>4</sup> 6d No. 16 GA <sup>9</sup>		
25/32" (20mm)	No. 11 GA <sup>4</sup> 8d No. 16 GA <sup>9</sup>		
29. INTERIOR PANELING	110. 12 42 04 110. 10 42		
av. milledi imiemiy			
1/A" (6 Amm)	4d 10		
1/4" (6.4mm) 3/8" (9.5mm)	4d 10 6d 11		

1. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
2. NAILS SPACED AT 6 INCHES (152mm) ON CENTER AT EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152mm) AT ALL SUPPORTS WHERE SPANS ARE
48 INCHES (1219mm) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305
NAILS FOR WALL SHOWN OR DEPORTED SHANKY. 3. COMMON OR DEFORMED SHANK.

4. COMMON
5. DEFORMED SHANK.
6. CORROSION-RESISTANT SIDING OR CASING NAILS.
7. FASTENERS SPACED 3 INCHES (76mm) ON CENTER AT EXTERIOR EDGES AND 6 INCHES (152mm) ON CENTER AT INTERMEDIATE SUPPORTS.
8. CORROSION-RESISTANT ROOFING NAILS WITH 7/16 INCH DIAMETER (11mm) HEAD AND 1 1/2 INCH (38mm) LENGTH FOR 1/2 INCH (12.7mm) SHEATHING AND 1 3/4 INCH (44mm) LENGTH FOR 25/32 INCH (20mm) SHEATHING.

9. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16 INCH (11mm) CROWN AND 1 1/8 INCH (29mm) LENGTH FOR 1/2 INCH (12.7mm) SHEATHING AND 1 1/2 INCH (38mm) LENGTH

9. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16 INCH (11mm) CROWN AND 1 1/8 INCH (29mm) LENGTH FOR 1/2 INCH (12.7mm) SHEATHING AND 1 1/2 INCH (38mm) LENGTH 10. PANEL SUPPORTS AT 16 INCHES (406mm) [20 INCHES (506mm) IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED]. CASING OR FINISH NAILS SPACED 6 INCHES (152mm) ON PANEL EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS.

11. PANEL SUPPORTS AT 24 INCHES (610mm). CASING OR FINISH NAILS SPACED 6 INCHES (152mm) ON PANEL EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS.

ENGINEERS SURVEYORS

- A Utah Corporation

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STRUCTURAL ELEMENTS ONLY

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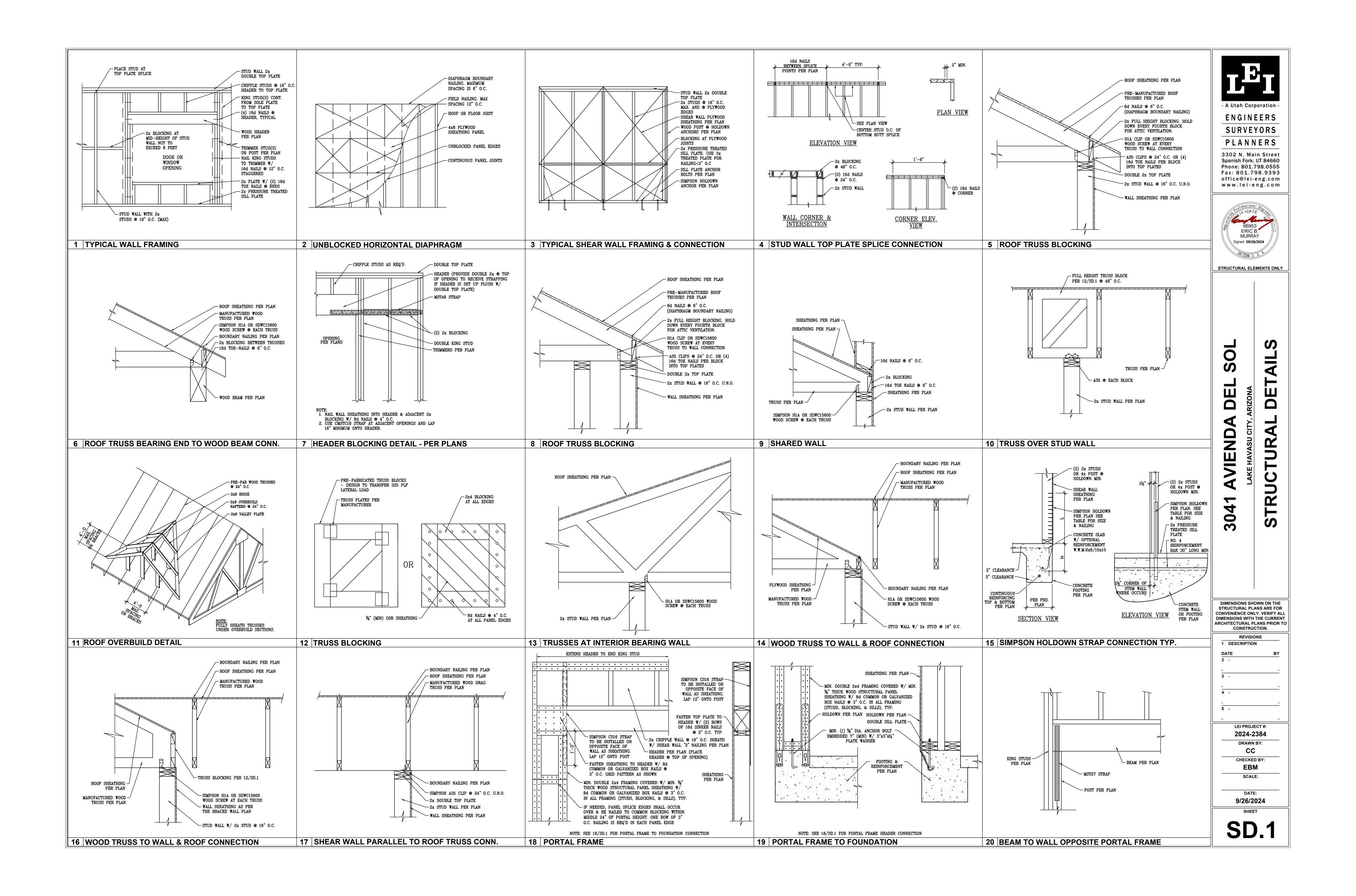
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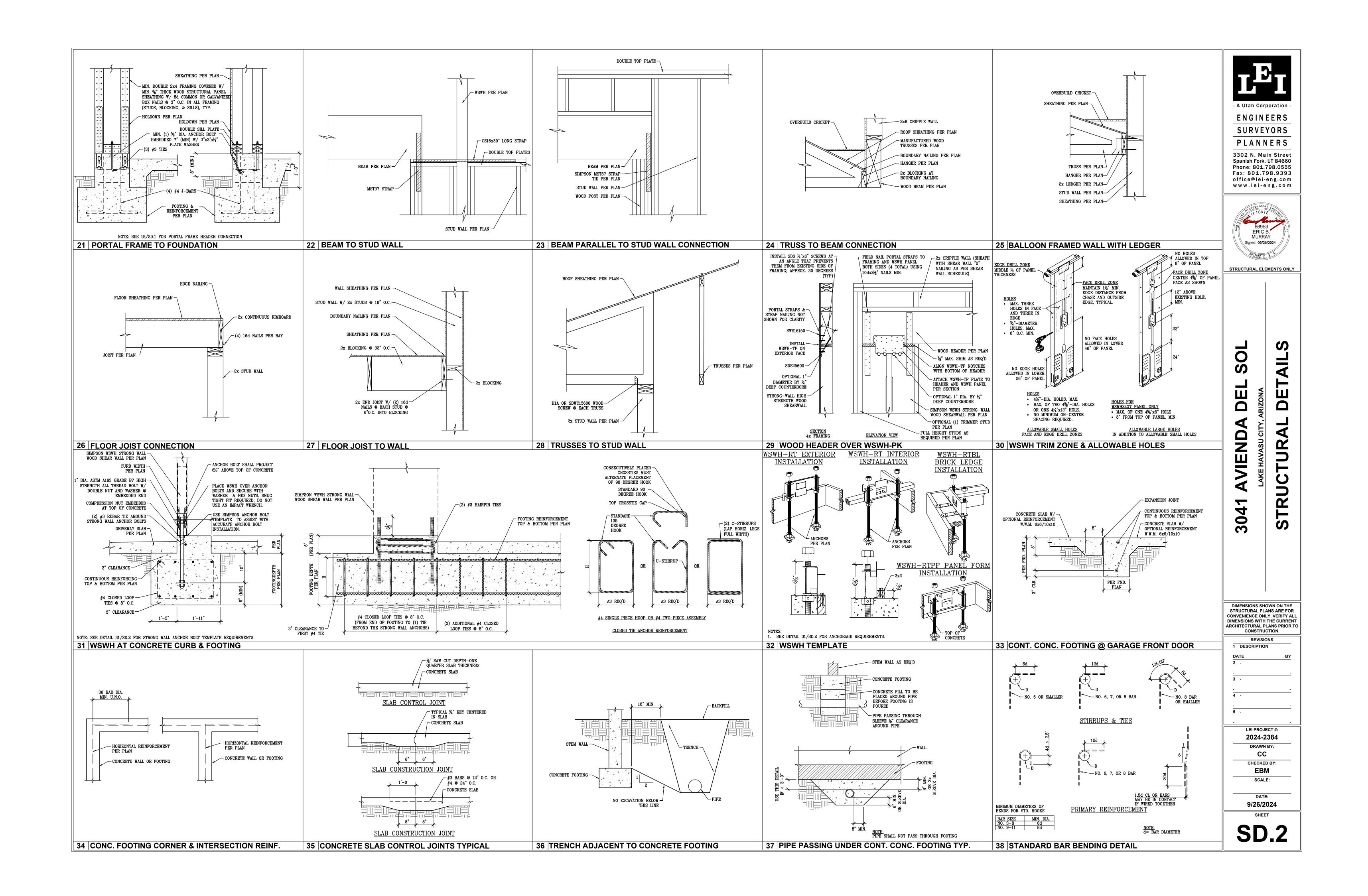
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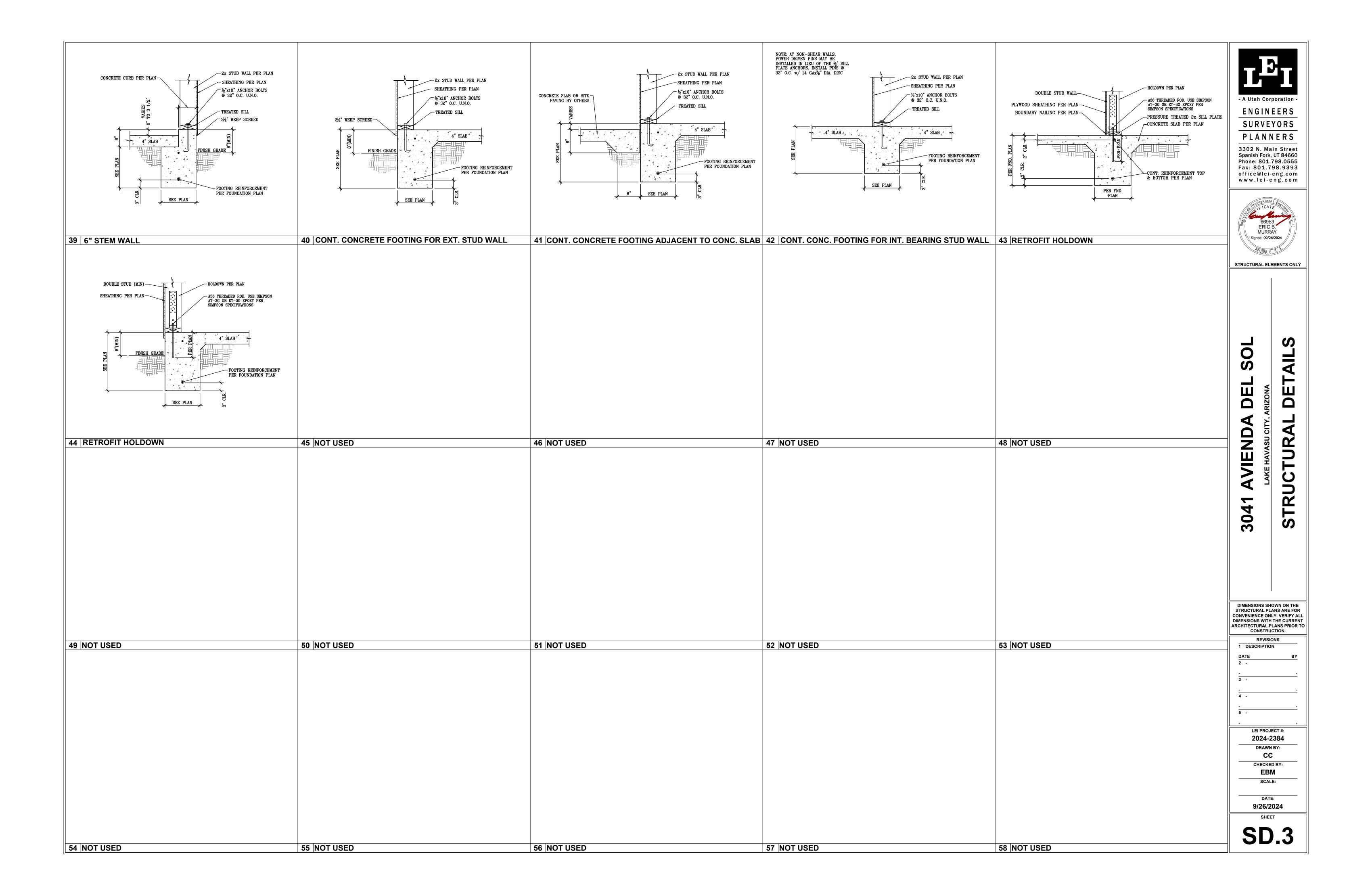
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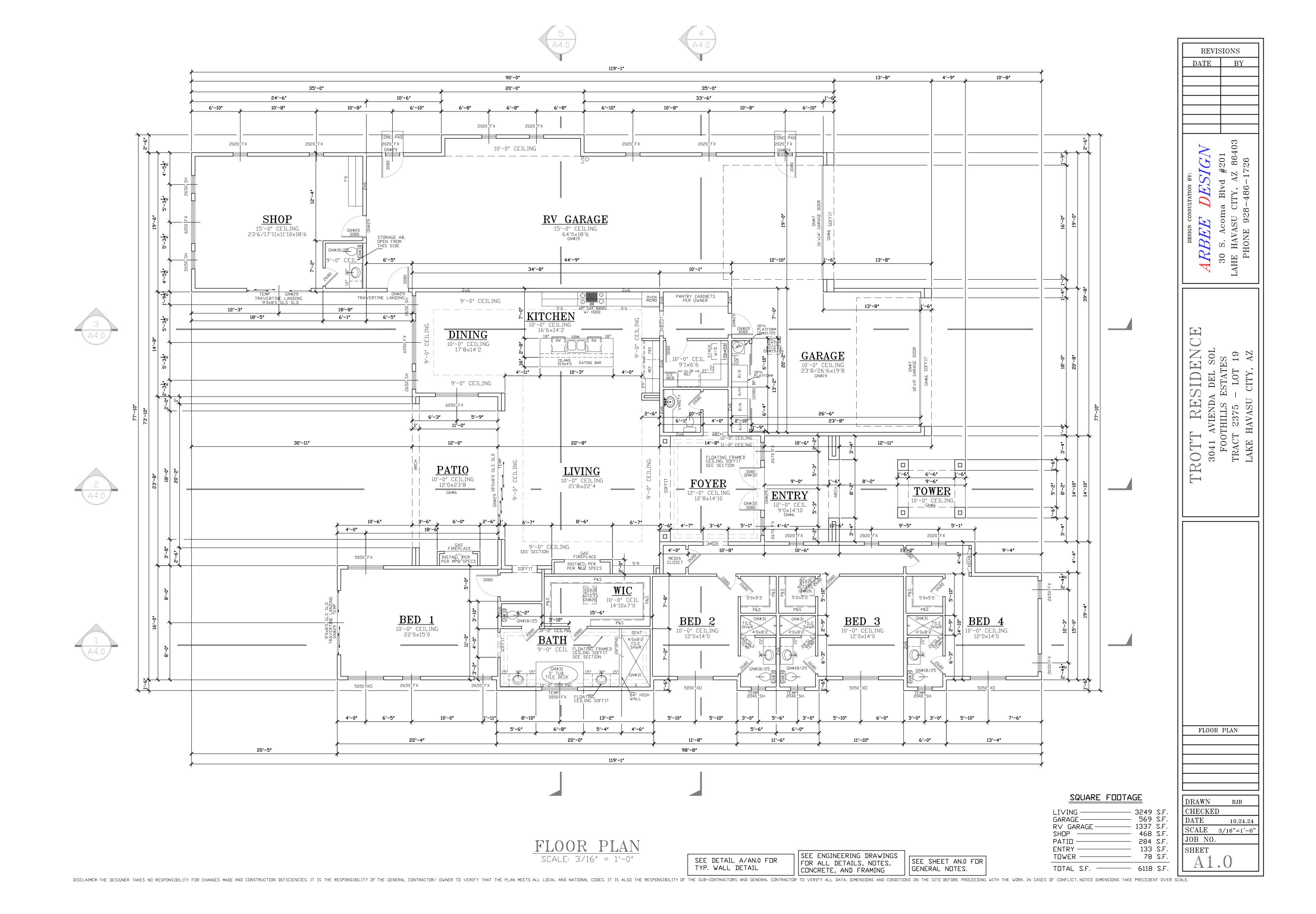
SHEET

9/26/2024











DISCLAIMER: THE DESIGNER TAKES NO RESPONSIBILITY FOR CHANGES MADE AND CONSTRUCTION DEFICIENCIES. IT IS THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND MATIONAL CODES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CODES.

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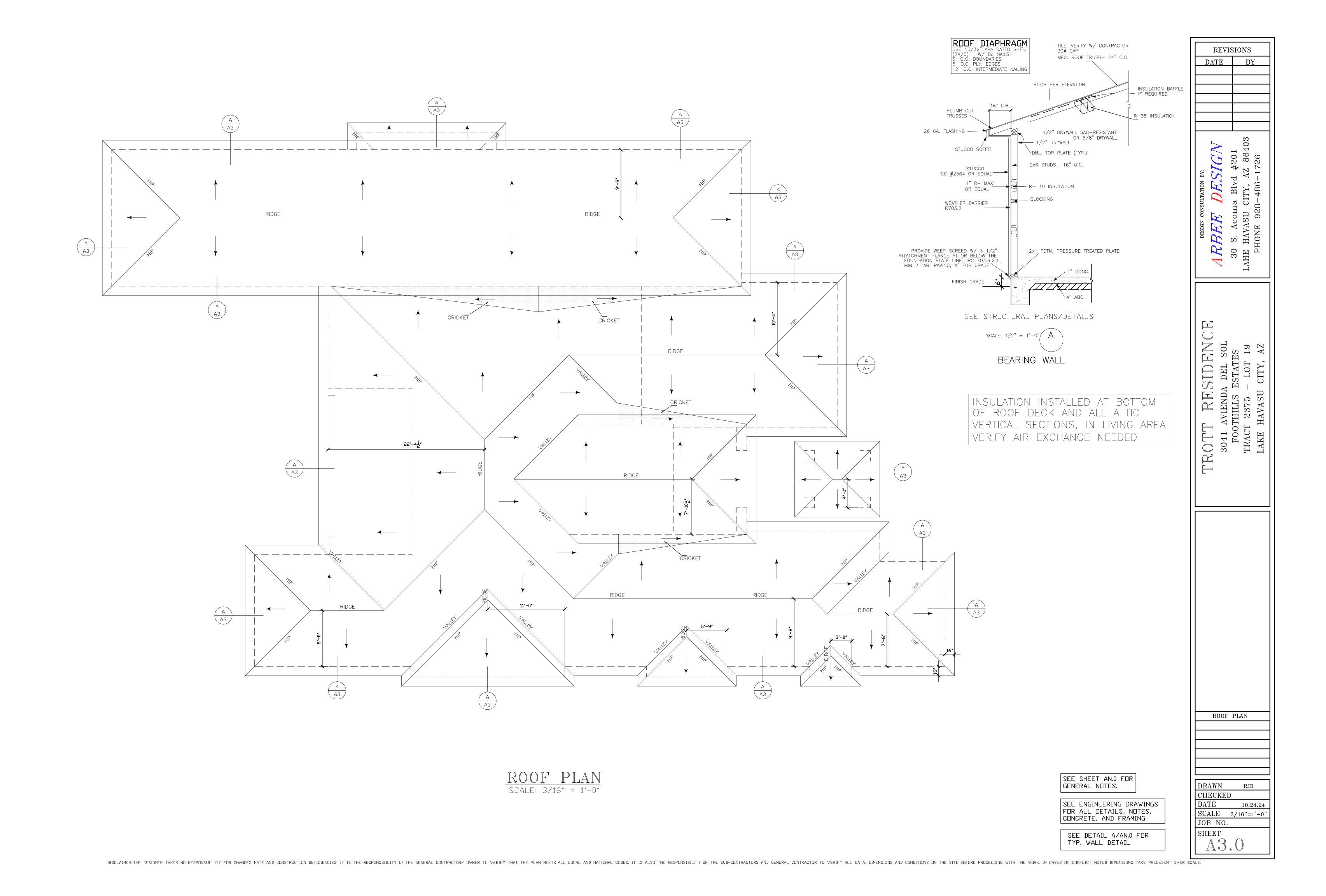
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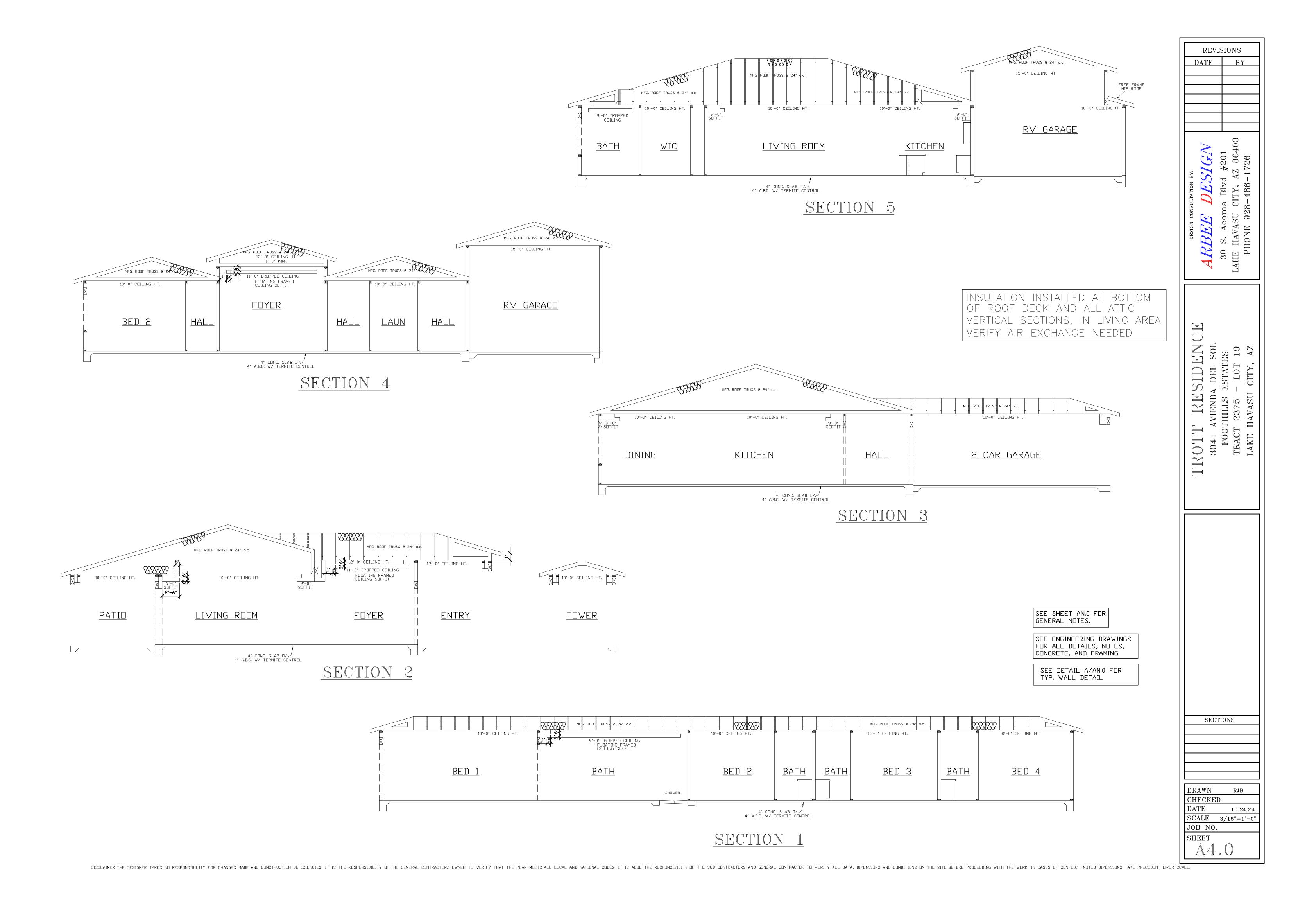
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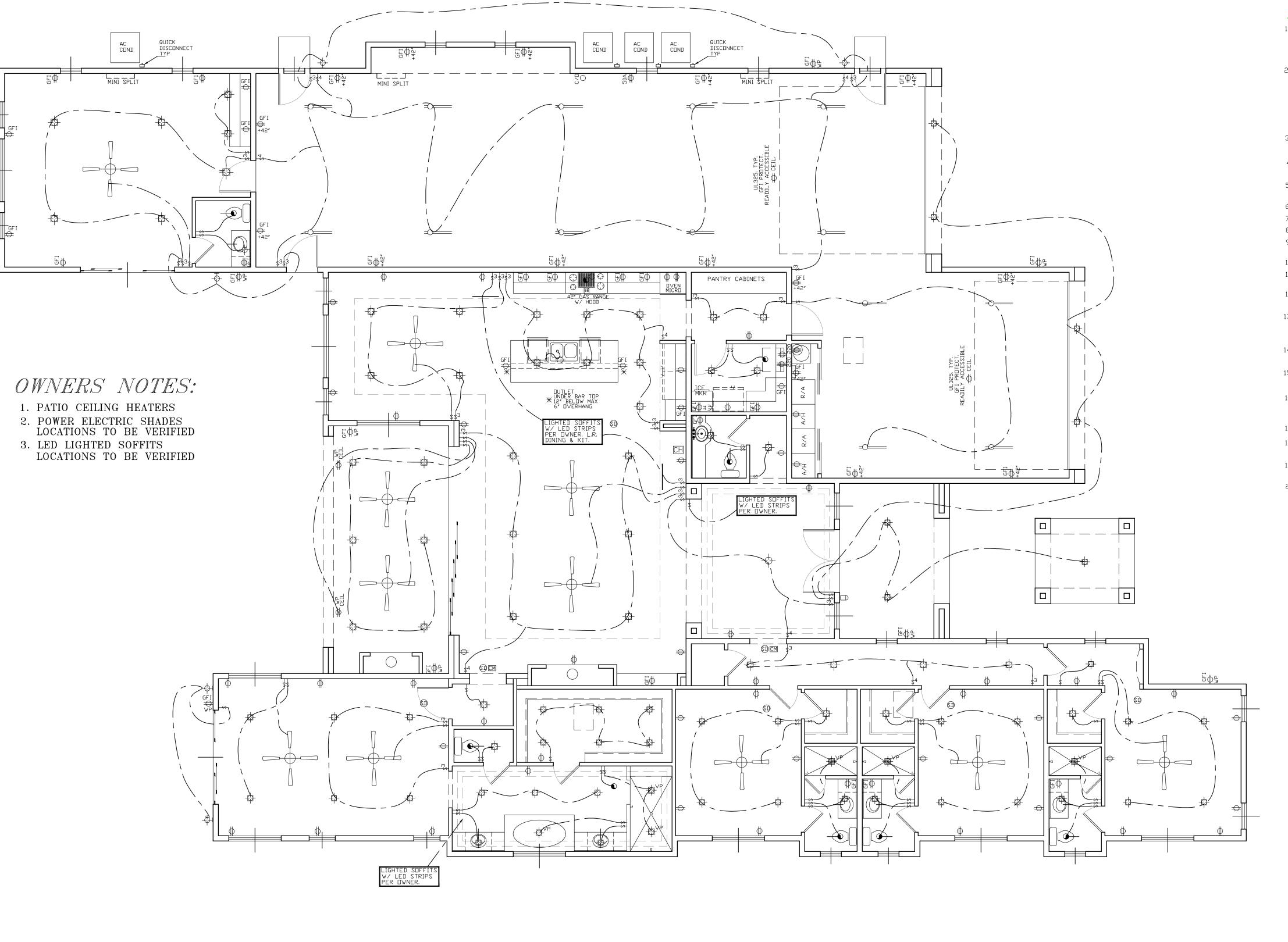
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DRAWN CHECKED DATE SEE ENGINEERING DRAWINGS FOR ALL DETAILS, NOTES, CONCRETE, AND FRAMING SCALE 3/16"=1'-0" JOB NO. SHEET

SEE DETAIL A/AN.O FOR TYP. WALL DETAIL







# CABANA ELECTRICAL PLAN

# ELECTRICAL LEGEND

UNDERCOUNTER

FLUORESCENT LIGHT FIXTURE CEILING FIXTURE WALL FIXTURE SINGLEPOLE SWITCH RECESSED FIXTURE THREEWAY SWITCH EYEBALL FIXTURE FOURWAY SWITCH LED STRIP LIGHTING  $\mathsf{T} \vee$ ΤV VAPORPROOF FIXTURE PH TELEPHONE DUAL FLOOD LIGHTS WATERPROOF SMOKE DETECTOR, 3' FROM R/A, PER R314.3 AND R315.1 220v DUTLET CARBON MONOXIDE DETECTOR PER R314.3 AND R315.1 110∨ DUTLET СН 1/2 SWITCHED BELL

(MIN. 5 AIR CHANGES PER HOUR)

DISCLAIMER: THE DESIGNER TAKES NO RESPONSIBILITY FOR CHANGES MADE AND CONSTRUCTION DEFICIENCIES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTOR TO VERIFY ALL DATA, DIMENSIONS AND CONDITIONS ON THE SITE BEFORE PROCEEDING WITH THE WORK. IN CASES OF CONFLICT, NOTED DIMENSIONS TAKE PRECEDENT OVER SCALE.

ALARM HUB PRE-WIRE LOCATION ALARM PANEL PRE-WIRE LOCATION

HEAT LAMP

DISCONNECT PER NEC ART.440-11

SPEAKER PRE-WIRE

CEILING FAN W/LIGHT

CEILING FAN PREWIRE (W/ APPROVED ELEC. BOX FOR CEIL' FANS)

(W/ APPROVED ELEC. BOX FOR CEIL' FANS)

PUSH BUTTON FOR GARAGE DR. OPENER - PREWIRE

HOSE BIBBS W/ BACK FLOW PREVENTER

# ELECTRICAL NOTES

- 1. ALL HEATING AND VENTILATING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH 2012 IRC. FURNACES AND WATER HEATERS SHALL BE SO INSTALLED THAT THEY CAN BE INDIVIDUALLY REMOVED WITHOUT REMOVING THE OTHER.
- 2. ELECTRICAL CONVIENIENCE DUTLETS SHALL BE SO SPACED THAT NO POINT ALONG THE FLOOR LINE OF ANY WALL SPACED IS MORE THAN SIX FEET FROM AN OUTLET, SWITCH BOTTOM HALF OF ELECTRICAL DUTLETS DNLY UNLESS DTHERWISE NOTED, IN ALL ROOMS DESIGNATED ELECTRICAL DUTLETS IN BATHROOMS, GARAGES, OR DUTSIDE OF BUILDING SHALL BE PROTECTED WITH APPROVED
- 3. G.F.C.I. REQUIRED ON ALL EXTERIOR, BATH GARAGE, AND COUNTER TOP RECEPTACLES WITHIN KITCHEN.
- 4. SMOKE DETECTOR TO BE PLACED 3' MIN. FROM RETURN AIR VENT, & PROVIDED WHERE CEILING HEIGHTS VARY BY 24" OR GREATER.
- 5. ELECTRICAL DUTLETS ARE TO BE PLACED @ COUNTER TOPS GREATER THAN 12%. ALL COUNTER TOPS SHALL HAVE (1) RECEPTACLE FOR EVERY 4'-0".
- 6. KITCHEN TO HAVE (2) 20 AMP. CIRCUITS EXCLUSIVE TO KITCHEN & DINING.
- 7. MICROWAVE TO HAVE A SEPARATE CIRCUIT (WHERE APPLICABLE)
- 8. LAUNDRY TO HAVE A SEPARATE 20 AMP. RECEPTACLE.
- 9. AN ELECTRICAL DUTLET IS REQUIRED @ KITCHEN/DINING ROOM COUNTER SPACES & PENINSULAS 12" DR WIDER, E3901.
- 10. PROVIDE RECEPTACLE IN HALLWAYS OVER 10 FEET. E3901.10.
- 11. DUTLET REQUIRED AT PENINSULA COUNTER SPACE 12 INCHES
- 12. ALL HEAT PUMP & A.C. COMPRESSOR'S SHELL BE EQUIPPED WITH DISCONNECT & 120∨ DUTLET. E3802.
- 13. RECEPTACLES IN HABITABLE ROOMS SHELL BE SPACED SUCH THAT NO POINT ALDNG THE FLOOR LINE IN ANY WALL SPACE IS MORE THEN 6 FEET FROM AN OUTLET. ANY WALL SPACE 2 FEET OR WIDER SHALL HAVE AN OUTLET. E3901.1
- 14. GFCI REQUIRED IN ALL BATHROOMS, KITCHEN AT COUNTERTOPS, UNFINISHED BASEMENTS, GARAGES, AND DUTDOORS. E3902.
- 15. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHELL BE "LISTED" TO BE SUITABLE FOR SUCH LOCATION, E4003.9.
- 16. BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY AT LEAST ONE 20-AMPERE BRANCH CIRCUIT, SUCH CIRCUITS SHALL BE SEPARATED FROM NON-BATHROOM RECEPTICALS.
- 17. OVEN/RANGE SHALL BE PROVIDED WITH A MINIMUM 40 AMPERE CIRCUIT. E3702.9.1.
- 18. PROVIDE 120 VOLT (GFIC) WITHIN 25 FEET OF DUTDOOR MECHANICAL EQUIPMENT.
- 19. SMOKE DETECTORS SHALL BE HARD WIRED WITH BATTERY BACK-UP. IRC/R314.3.
- 20. E3902.12 Arc-fault circuit-interrupter protection. All branch circuits that supply 120-volt, single-phase, 15and 20-ampere outlets instalzled in family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreations rooms, closets, hallways and similar rooms or areas shall be protected by a combination type arc-fault circuit interrupter installed to provide protection of the branch circuit.

#### Exception:

1. Where an outlet branch-circuit type AFCI is installed at the first outlet to provide protection for the remaining portion of the branch circuit, the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet shall be installed with metal outlet and junction boxes and RMC, IMC, EMT, type MC, or steel armored type AC cables meeting the requirements of Section E 3908.8.2. Where an outlet branch-circuit type AFCI is installed at the first outlet to provide protection for the remaining portion of the branch circuit, the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet shall be installed with metal or nonmetallic conduit or tubing that is encased in not less than 2 inches (51 mm) of concrete.3. AFCI protection is not required for an individual branch circuit supplying only a fire alarm system where the branch circuit is wired with metal outlet and junction boxes and RMC, IMC, EMT or steel-sheathed armored cable Type AC, or Type MC meeting the requirements of Section E3908.8.

21. E4001.11.1 FACE PLACE GROUNDING SNAP SWITCHES, INCLUDING DIMMER AND SIMILAR CONTROL SWITCHES, SHALL BE EFFECTIVELY GROUNDED AND SHALL PROVIDE A MEANS TO GROUND METAL FACE PLATES, WHETHER OR NOT METAL FACE PLATES ARE INSTALLED.

22. E4002.14 Tamper-resistant receptacles. In areas specified in Section E3901.1, 125-volt, 15- and 20-ampere receptacles shall be listed tamper-resistant receptacles.

Exception: Receptacles in the following locations shall not be required to be tamper resistant:

1. Receptacles located more than 5.5 feet (1676 mm) above the floor. 2. Receptacles that are part of a luminaire or appliance. 3. A single receptacle for a single appliance or a duplex receptacle for two appliances where such receptacles are located in spaces dedicated for the appliances served and, under conditions of normal use, the appliances are not easily moved from one place to another. The appliances shall be cond-and-plug-connected to such receptacles in accordance with Section

23, R315.1 Carbon monoxide alarms. For new construction, an approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms in dwelling units within which fuel-fired appliances are installed and in dwelling units that have attached garages.

## MECHANICAL NOTES

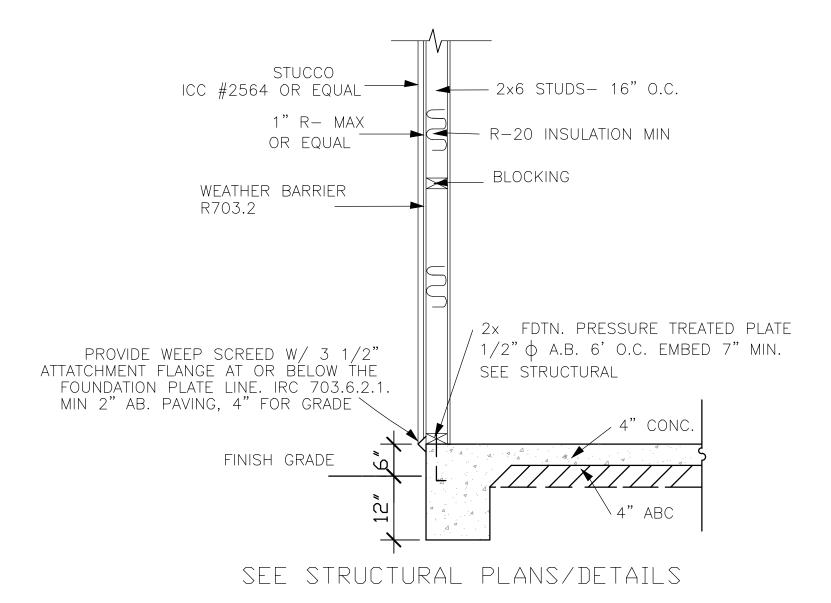
- 1. PRESSURE TEMPERATURE RELIEF VALVE REQUIRED FOR WATER HEATERS
- 2. CLOTHES DRYER EXHAUST LENGTH IDENTIFICATION: WHERE THE DRYER EXHAUST DUCT IS CONCEALED WITHIN THE BUILDING CONSTRUCTION, THE EQUIVALENT LENGTH OF THE EXHAUST DUCT SHALL BE IDENTIFIED ON THE PERMANENT LABEL OR TAG. THE LABEL OR TAG SHALL BE LOCATED WITHIN 6 FT. OF THE EXHAUST DUCT CONNECTION. THE LABEL OR TAG SHALL INDICATE THE TOTAL LENGTH AND TOTAL NUMBER OR 90 DEGREE AND 45 DEGREE TURNS OF THE DRYER EXHAUST SYSTEM. THE DWNER AND OR THE SUPPLIER SHALL VERIFY THAT ANY NEW DR REPLACEMENT DRYER MEETS THE EXHAUST SPECIFICATIONS SHOWN. IRC M1502.4.5 MODIFIED.L

REVISIONS DATE BY

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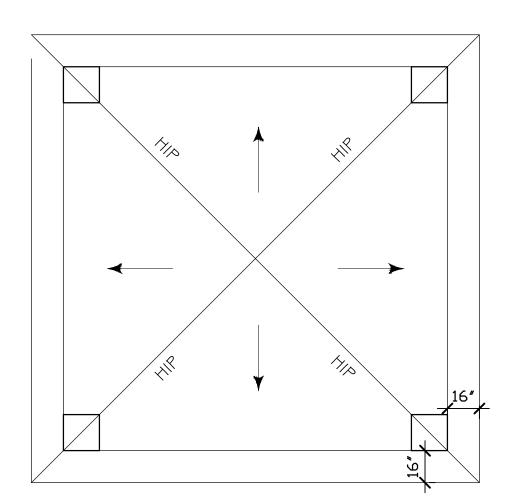
ELECTRICAL PLAN

DRAWN RJBCHECKED DATE10.24.24 SCALE 3/16"=1'-0" JOB NO. SHEET

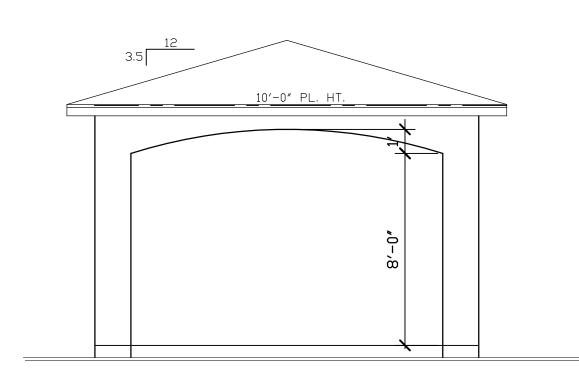


TYPICAL WALL

SCALE: 1/2" = 1'-0"



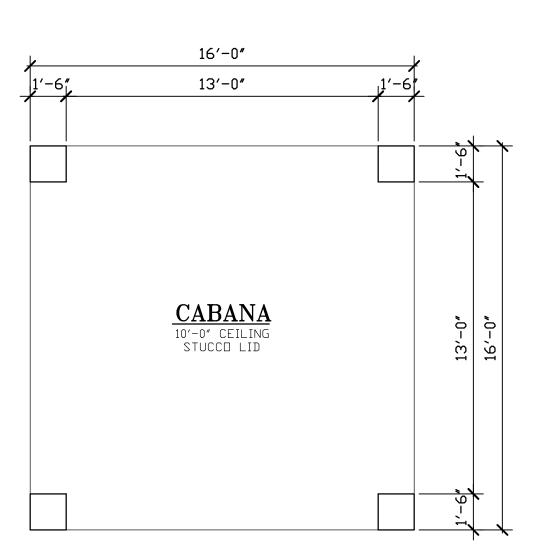
# CABANA ROOF PLAN SCALE: 1/4" = 1'-0"



CABANA TYP. ELEVATION

SQUARE FOOTAGE





#### GENERAL NOTES

- I. ALL CONSTRUCTION MUST COMPLY WITH THE CURRENT CODES LISTED BELOW, AS LOCALLY AMENDED, AND IS SUBJECT TO FIELD INSPECTION TO VERIFY COMPLIANCE 2018 INTERNATIONAL RESIDENTIAL CODE, 2018 INTERNATIONAL BUILDING CODE, 2018 INTERNATIONAL PLUMBING CODE, 2017 NATIONAL ELECTRIC CODE, 2018 INTERNATIONAL MECHANICAL CODE.
- 2. ALL PLYWOOD, LIGHT FRAMING DIMENSIONAL & ENG. SHALL BE STAMPED WITH THE APPROPRIATE IDENTIFYING MARK OF AN APPROVED INSPECTION AGENCY & OR LUMBER GRADING AGENCY. 2X JOIST & RAFTERS USE STUD GRADE OR BETTER U.N.O. BEAMS & HEADERS USE #2 OR BETTER, PLATES BLOCKING & STUDS USE STUD GRADE ALL HEADERS, JOIST & RAFTERS SHALL BE PLACED ON EDGE WITH CROWNS UP
- 3. R602.3.2 FRAMING DETAILS JOINT TOP PLATE OFFSET 24" MIN.
- 4. INTERIOR ¢ GARAGE WALLS ARE 3-1/2" WIDE.EXTERIOR HOUSE WALLS ARE 5 1/2 WIDE
- 5. ALL PLUMBING FIXTURES TO COMPLY WITH WATER CONSERVATION REQUIREMENTS.
- 6. I 2" MIN. WEATHER PROTECTION REQUIRED W/ SOFFIT BOARD OUT SIDE CLG. 7. ALL AUTOMATIC GARAGE DOOR OPENERS ARE TO COMPLY WITH FEDERAL BILL HR 4952.
- 8. ALL PLUMBING, ELECTRICAL, MECHANICAL, EXHAUST FANS AND DUCTS PENETRATING FIRE-RESISTIVE CONSTRUCTION MUST BE IN ACCORDANCE IRC R302.4 9. USE STC. TIE DOWNS FOR INTERIOR WALLS ROOF TRUSSES
- 10. PROVIDE ROOF VENTING PER 1.R.C R806
- | | . SKYLIGHTS TO BE INSTALLED PER I.R.C. R308.6 \$ ICC 4063.
- 12. GABLE END TRUSS TO HAVE VERTICAL BRACING UNDER EACH LOOK-OUT. GABLE END TRUSS ALT. VAPOR BARRIER PYROKURE FILE # 3783 VOL. I SEC. L
- 13. PROVIDE TRUSS CALC. @ H/AC UNIT BEARING
- 14. PROVIDE BEARING POST UNDER ALL GIRDERS, BEAMS, \$ HEADERS PER CODE.
- USE NAILING TABLE R602.3(1)

15. WALL CONSTRUCTION I.R.C. CHAPTER 6

- 16. PROVIDE FIRE STOPPING PER IRC R 302.11 PROVIDE DRAFT STOP PER IRC R 302.12
- 17. PROVIDE POST OFFICE-APPROVED ADDRESS NUMBERS ON THE DWELLING. ADDRESS SHALL BE PLAINEY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE DWELLING.
- 18. PROVIDE VENTILATION IN BATHROOMS, WATER CLOSET COMPARTMENTS, LAUNDRY ROOMS AND SIMILAR ROOMS. WINDOW OPEN ABLE AREA ONE TWENTIETH OF FLOOR AREA OR MECHANICAL VENTILATION I.R.C. M | 505.2
- 19. FIRE SEPARATION COMMON WALLS TO HOUSE & GARAGE (A) WALLS TO ROOF SHEATHING OR (B) ALL GARAGE SUPPORTING WALLS & CEILING USE 5/8" OR 1/2" SAG RESISTANT DRYWALL. I.R.C R302.6, PER TABLE 302.6 @ GARAGE USE DBL 5/8 TYP. (X) @ A/A LID
- 20. HOUSE/GARAGE MIN. I 3/8" SOLID WD DR OR 20 MIN LABELED SELF-CLOSING I.R.C R302.5. I
- 21. WATER HEATER & EXPANSION TANK PRESSURE RELIEF I.R.C. P2804.
- 22. APPLIANCES LOCATED IN A GARAGE OR CARPORT SHALL BE PROTECTED FROM IMPACT FROM AUTOMOBILES PER IRC M | 307.3.1
- 23. I.R.C. M I 502.3 BACK DRAFT DAMPER REQUIRED @ DRYER REFER TO M | 502.4.5 FOR DUCT LENGTH
- 24. DRYER EXHAUST DUCT I.R.C. M | 502. |
- 25. ACCESS TO WATER CLOSET I.R.C. R307.1 30" X 21" CLEAR SPACE
- 26. A/A UNOBSTRUCTED AREA I.R.C. R807.1
- 27. GLASS BLOCK TO BE INSTALLED PER R607
- 28. IRC R 302.5.2 DUCT PENETRATION: DUCTS INT THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OTHER OPENINGS INTO THE GARAGE.
- 29. EXTERIOR GARAGE MAN DOOR TO A MAX | 1/2" FROM TOP OF THRESHOLD TO EXTERIOR CONCRETE PAD.
- landings or finished floors at exterior doors, other than the required egress door shall not be more than 7 3/4 inches lower than the top of the threshold provided that the door does not swing over the landing or floor. 30. IRC R307.1/P2705.1. THE CENTERLINE OF WATER CLOSET, BIDETS, SINKS SHALL NOT
- BE LESSTHAN 15 INCHES FROM THE ADJACENT WALLS OR PARTITIONS OR NOT LESS THAN 15 INCHES FROM THE CENTERLINE OF A BIDET TO THE OUTERMOST RIM OF AN ADJACENT WATER CLOSET. THERE SHALL BE AT LEAST 21 INCHES CLEARANCE IN FRONT OF THE WATER CLOSET, BIDET OR LAVATORY TO ANY WALL, FIXTURE OR DOOR.
- 31. TILE WALLS TO BE BACKED WITH CEMENT BOARD R702.4.2.
- 32. IRC R3 I I .2 AT LEAST ONE EGRESS DOOR SHALL BE PROVIDED FOR EACH DWELLING UNIT. THE EGRESS DOOR SHALL BE SIDE-HINGED, AND SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 32 Inches (813 mm) WHEN MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES (1.57 rad). THE MINIMUM CLEAR HEIGHT OF THE DOOR OPENING SHALL NOT BE LESS THAN 78 inches (1981mm) IN.

## DOOR NOTES:

- 1. TYPICAL DOOR DESIGNATION (3080) INDICATES:
- 3'-0'' WIDTH  $\times$  8'-0'' HEIGHT OF DOOR. 2. ALL INTERIOR DOORS TO BE FRAMED WITH A MIN. OF 4" ON THE HINGE SIDE OF THE DOOR, CONFLICTS CALL THE OFFICE.
- 3. INTERIOR DOORS TO BE FRAMED 2" OVER THE CALL OUT WIDTH AND 2 1/2" OVER THE CALL OUT HEIGHT.
- 4. CLOSET BY-PASS DOORS: WOOD DOORS ARE FRAMED AT 83" OR 99" IN HT. MIRRORED DOORS ARE AT 81" OR 97".

## WINDOW NOTES:

- 1. TYPICAL WINDOW DESIGNATION (2040) INDICATES:  $2'-0'' \times 4'-0''$  WINDOW FRAME.
- 2. FX = FIXED WINDOW, XO = HORIZONTAL SLIDING
- SH = SINGLE HUNG, CM = CASEMENT

SEE SHEET AN.O FOR GENERAL NOTES.

SEE ENGINEERING DRAWINGS |FOR ALL DETAILS, NOTES, CONCRETE, AND FRAMING

SEE DETAIL A/AN.O FOR TYP. WALL DETAIL

SHEET	INDE

ASP1- SITE PLAN AN.O- GENERAL NOTES A1.0- FLOOR PLAN A2.0- ELEVATIONS A3.0- ROOF PLAN A4.0- SECTIONS

A5.0- ELECTRICAL PLAN FS1- FIRE SPRINKLER PLAN

S1.0- FOUNDATION PLAN S2.0- SHEAR WALL PLAN S3.0- FRAMING PLAN SD.O- STRUCTURAL NOTES SD.1- STRUCTURAL DETAILS

SD.2- STRUCTURAL DETAILS SD.3- STRUCTURAL DETAILS

BY :201 864 726

REVISIONS

ESOL 3041 AVIENDA FOOTHILLS FRACT 2375

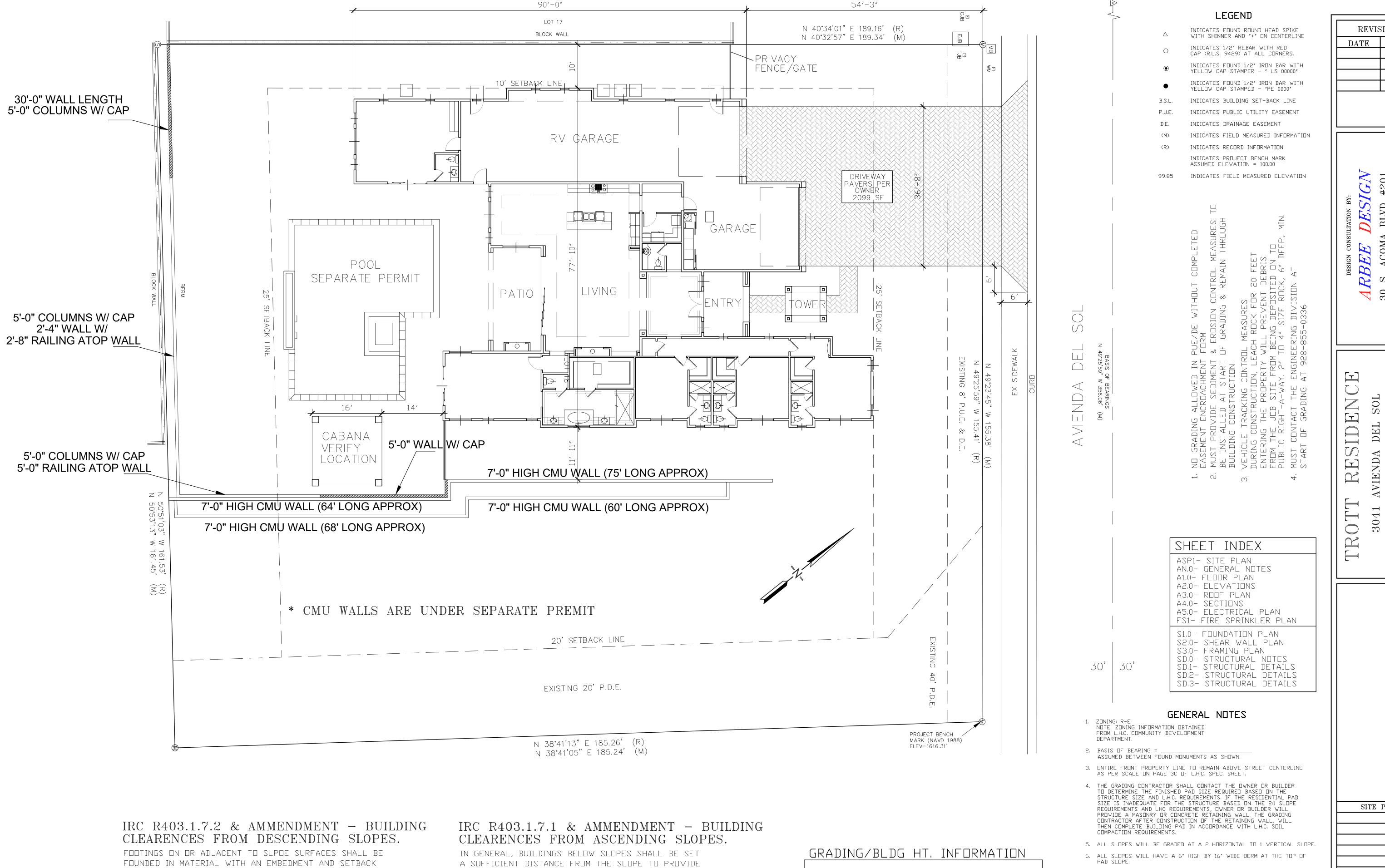
GENERAL NOTES

DRAWN RJBCHECKED 10.24.24

DATESCALE 1/4"=1'-0" JOB NO.

SHEET

LIVING — 256 S.F. DISCLAIMER: THE DESIGNER TAKES NO RESPONSIBILITY FOR CHANGES MADE AND CONSTRUCTION DEFICIENCIES. IT IS THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND GENERAL CONTRACTOR AND GENERAL CONTRACTOR TO VERIFY ALL DATA, DIMENSIONS AND CONDITIONS ON THE SITE BEFORE PROCEEDING WITH THE WORK. IN CASES OF CONFLICT, NOTED DIMENSIONS TAKE PRECEDENT OVER SCALE.



FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOOTING WITHOUT DETRIMENTAL SETTLEMENT. ONE AND TWO FAMILY DWELLINGS, TOWNHOUSES AND ACCESSORY STRUCTURES SHALL BE PLACED NO CLOSER THAN 3 FEET FROM THE TOP OF A DESCENDING SLOPE OR INSIDE FACE OF RETAINING WALL, BUT NOT LESS THAN H/3 NOT TO EXCEED 40 FEET.

\*\*FOR SLOPES STEEPER THAN 2:1 ADDITIONAL REQUIREMENTS MAY APPLY\*\*

PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES, DNE AND TWO FAMILY DWELLINGS, TOWNHOUSES AND ACCESSORY STRUCTURES SHALL BE PLACED NO CLOSER THAN 3 FEET FROM THE TOE OF A 2:1 ASCENDING SLOPE OR INSIDE FACE OF RETAINING WALL, BUT NOT LESS THAN HEIGHT OF THE SLOPE/2 NOT TO EXCEED 15 FEET. WHERE A RETAINING WALL IS CONSTRUCTEDAT THE TOE OF THE SLOPE, THE HEIGHT OF THE SLOPE SHALL BE MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE SLOPE.

DISCLAIMER: THE DESIGNER TAKES NO RESPONSIBILITY FOR CHANGES MADE AND CONSTRUCTION DEFICIENCIES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTORS AND GENERAL CONTRACTORS AND GENERAL CONTRACTORS AND CONSTRUCTION DEFICIENCIES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTORS AND GENERAL CONTRACTORS AND GENERAL CONTRACTORS AND GENERAL CONTRACTORS AND CONSTRUCTION DEFICIENCIES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTORS AND GENERAL CONTRACTORS AND GENERAL CONTRACTORS AND CONSTRUCTION DEFICIENCIES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTORS AND GENERAL CONTRACTORS AND CONSTRUCTION DEFICIENCIES. IT IS ALSO THE RESPONSIBILITY OF THE SUB-CONTRACTORS AND GENERAL CONTRACTORS AND GENERAL CONTRACTORS

PRE-GRADED SUB DIVISION

30'-0" MAX BLDG HT

BUILDING HEIGHT-LIVING = 17'-5" BUILDING HEIGHT-RV GARAGE = 18'-9"

PAD CERT. REQUIRED @ 1ST INSPECTION

9. DURING GRADING, THE GRADING CONTRACTOR WILL BE RESPONSIBLE FOR DUST CONTROL PER LHC REQUIREMENTS.

7. ALL BUILDING PADS WILL BE GRADED TO PROVIDE SLOPE AWAY FROM THE HOUSE TO DIRECT RAINWATER AWAY FROM THE STRUCTURE.

8. THE GRADING CONTRACTOR WILL PROVIDE A 3' WIDE (MINIMUM) LEVEL AREA AROUND THE STRUCTURE.

10. EXCAVATIONS OVER 3' WILL BE PROTECTED FROM PUBLIC ENCROACHMENT. 11. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING AND SCHEDULING COMPACTION TEST USING

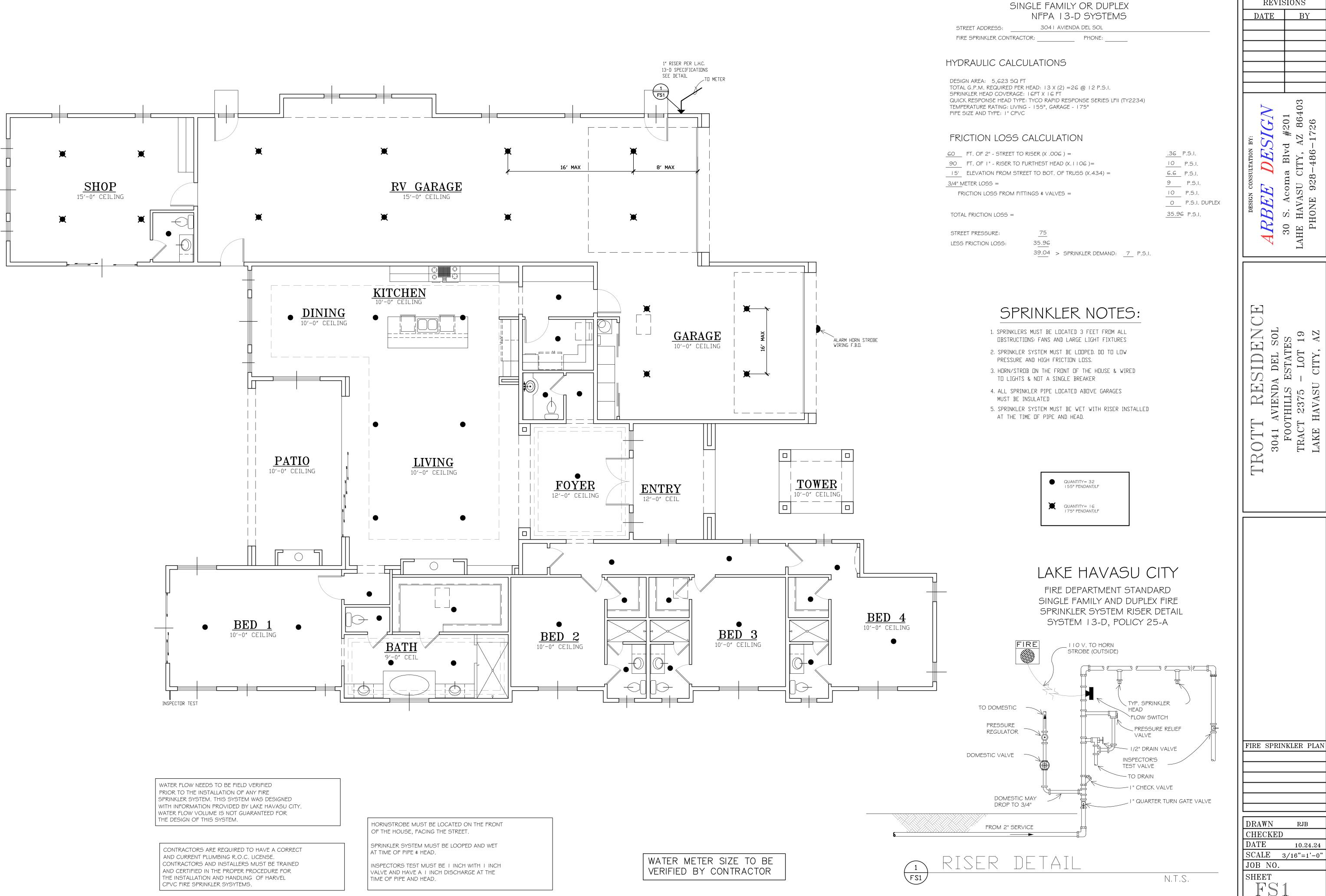
12. ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE THE LASTEST L.H.C. STANDARD DETAILS AND / OR SPECIFICIATIONS INCLUDING ANY SUPPLEMENTS REVISIONS

304 TR/

SITE PLAN

DRAWN RJBCHECKED DATE 10.24.24 SCALE 1"=10'-0"

JOB NO. SHEET



DISCLAIMER: THE DESIGNER TAKES NO RESPONSIBILITY FOR CHANGES MADE AND CONFLICT, NOTED DIMENSIONS TAKE PRECEDENT OVER SCALE.

REVISIONS

POLICY 25-B