BUILDING CODE: 2018 EDITION OF THE INTERNATIONAL BUILDING CODE WITH CITY OF PHOENIX AMENDMENTS. LOADS: ROOF LIVE LOAD = 20 PSF (REDUCIBLE). TOTAL ROOF DEAD LOAD = 15 PSF. TOTAL FLOOR DEAD LOAD = 50 PSF. TOTAL LIVE LOAD = 40 PSF. BALCONY DEAD LOAD = 50 PSF BALCONY LIVE LOAD = 100 PSF STAIR DEAD LOAD = 30 PSF. STAIR LIVE LOAD = 100 PSF. WIND: 115 MPH BASIC WIND SPEED, EXPOSURE C. lw = 1.0INTERNAL PRESSURE COEFFICIENT (GCpi) = +/-0.18. SEISMIC: OCCUPANCY CATEGORY = I le = 1.0. DESIGN CATEGORY = B. SITE CLASS D. Ss = 0.1828, S1 = 0.0616, R = 2. Sds = 0.195, Sd1 = 0.099BASIC SEISMIC-FORCE-RESISTING SYSTEM (PANELS RATED FOR SHEAR RESISTANCE). ANALYSIS PRECEDURE USED (EQUIVALENT LATERAL FORCE ANALYSIS). Cs = 0.0975 (WORKING STRESS).

FOUNDATIONS:

SOIL REPORT BY ACS SERVICES LLC; JOB NO. 1801025, DATED MARCH 25, 2018; SPREAD FOOTINGS SHALL BEAR ON 24" MINIMUM CONTROLLED COMPACTED FILL IN ACCORDANCE WITH THE ABOVE REPORT. BOTTOM OF FOOTING TO BE 18" MINIMUM BELOW FINISHED GRADE. (THESE FOOTING DEPTHS ARE MINIMUMS AND THE CONTRACTOR SHALL COORDINATE WITH SOILS REPORT AND OTHERS TRADES TO ENSURE THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. COMPACTED FILL SHALL EXTEND 36" BEYOND EACH EDGE OF FOOTING. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE = 2000 PSF. FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY SOILS ENGINEER PRIOR TO

CONCRETE

PLACEMENT OF CONCRETE.

MINIMUM 28 DAY STRENGTH 3,000 PSI EXCEPT AS FOLLOWS: (TYPE II, U.N.O.) SLABS ON GRADE -----2,500 PSI

FOUNDATIONS ----------2.500 PSI

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, ETC. MAXIMUM SLUMP 4 1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED. A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL. CAST CLOSURE POUR AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS (KEYED OR SAW CUT), SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 225 SQUARE FEET. KEYED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING, ALL OTHER JOINTS MAY BE SAW CUT. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS FOR APPROVAL PRIOR TO CONSTRUCTION. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS. SHALL BE LIMITED TO 20% OF

CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR SPECIAL SLAB TREATMENTS AND VAPOR BARRIERS REQUIRED FOR FINISH FLOORING.

CONCRETE SLAB ON GRADE SHALL BE 4" THICKNESS WITH 6x6 W2.1 x W2.1 W.W.F. UNLESS NOTED OTHERWISE. INSTALL OVER 4" MINIMUM A.B.C. FILL. REFER TO SOILS REPORT FOR ADDITIONAL INFORMATION.

REINFORCING:

ASTM A615 (Fy = 60 KSI) DEFORMED BARS FOR ALL BARS. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706. WELDED WIRE FABRIC PER ASTM A185, WIRE PER ASTM A82. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. LATEST ACI CODE AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ------ 3" EXPOSED TO EARTH OR WEATHER

#6 OR LARGER ------#5 AND SMALLER ------

ALL OTHER PER LATEST EDITION OF ACI 318.

LAP SPLICES IN CONCRETE:

LAP SPLICES, UNLESS NOTED OTHERWISE, SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318. LAP SPLICES IN CONCRETE COLUMNS SHALL BE STANDARD COMPRESSION LAP SPLICES. STAGGER SPLICES A MINIMUM OF ONE LAP LENGTH. LAPS IN WELDED WIRE FABRIC SHALL BE MADE SO THAT THE OVERLAP, MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET. IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES. ALL WELDED WIRE FABRIC SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES

ALL SPLICE LOCATIONS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK, DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. CONCRETE COLUMN DOWEL EMBEDMENT SHALL BE A STANDARD COMPRESSION DOWEL WITH EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF THE ACI 318. (UNLESS NOTED OTHERWISE ON PLANS OR DETAILS).

DRYPACK

DRYPACK SHALL BE 5,000 PSI NON-SHRINK GROUT, FIVE STAR OR EQUIVALENT. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS INSTALL DRYPACK UNDER BASEPLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION.

WOOD

ALL WOOD STRUCTURAL MEMBERS AND ANY STRUCTURAL MEMBERS WITH WOOD COMPONENTS MUST CONSIST OF FIRE-RETARTANT WOOD WHERE SAID WOOD MEMBER OCCURS AT OR INTERSECTS ANY PORTION OF THE 2 HR EXTERIOR WALL CONSTRUCTION AS SPECIFIED BY THE IBC FOR TYPE III CONSTRUCTION.SEE ARCHITECTURAL PLANS FOR MORE INFORMATION. THE METHOD(S) USED TO TREAT THESE WOOD MEMBERS TO BE FIRE-RETARTANT ARE TO CAUSE A REDUCTION IN THE DESIGN STRENGTH(S) OF THESE MEMBERS OF NO MORE THAN 10% THEIR ORIGINAL VALUE (LE. THEY MUST HAVE AT LEAST 90% OF THEIR ORIGINAL DESIGN STRENGTH AFTER FIRE RETARTANT), THE METHOD OF FIRE RETARTANT IS ALSO TO CONFORM TO THE STANDARDS OF ASTM E84 OR UL723 AS REQUIRED. CONTRACTOR IS TO VERIFY IF ANY OF THESE TREATMENTS HAVE POTENTIAL CORROSION ISSUES AND IF SO, ANY METAL IN CONTACT WITH THESE MEMEBRS IS TO BE CORROSION RESISTANT.

SAWN LUMBER:

FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) OR THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) MAXIMUM MOISTURE CONTENT AT TIME OF INSTALL AND IN SERVICE NOT TO EXCEED 19%. ALL MEMBER SIZES SHOWN IN STRUCTURAL DRAWINGS ARE NOMINAL SIZES U.N.O. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES (USE OTHER GRADES WHERE NOTED ON PLANS):

	SPECIES & GRADE	ALL D Fb	ESIGN \ Ft	/ALUES Fv	LISTED IN F Fc perp	POUNDS Fc	S PER SQ. IN E
2x,3x,&4x	DF-L #2	900	575	180	625	1,350	1,600,000
POST AND TIMBERS (6x6,and larger)	DF-L #1	1,200	825	170	625	1,000	1,600,000
BEAMS AND STRINGERS (i.e.6x10,6x12	DF-L #1	1,350	675	170	625	925	1,600,000

ENGINEERED WOOD PRODUCTS. (GLULAM)

ALL ENGINEERED LUMBER SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. BEAM TO BEAR GRADE STAMP AND ATIC STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS. PRODUCTS SHALL BE MANUFACTURED, HANDLED, AND INSTALLED PER LATEST CODE APPROVAL REPORTS. ALL WOOD PRODUCTS EXPOSED TO WEATHER SHALL BE TREATED PER THE PROJECT SPECIFICATIONS.

GLUED-LAMINATED BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTES: Fb = 2,400 PSI, Fv = 215 PSI, Fc (PERPENDICULAR) = 650 PSI, Fc (PARALLEL) = 1,450 PSI, Ft = 1150 PSI, E = 1,700,000 PSI. BEAMS CONTINUOUS OVER SUPPORTS OR SUPPORTING SHEAR WALL SHALL HAVE THE SPECIFIED MINIMUM Fb = 2,400 PSI, TOP AND BOTTOM. MAXIMUM MOISTURE CONTENT AT TIME OF INSTALL AND IN SERVICE NOT TO EXCEPT 16%.

DOWEL TYPE FASTENERS:

USE COMMON NAILS WHERE DRAWINGS SHOW PENNYWEIGHT NAIL SIZES UNLESS NOTED OTHERWISE IN THE STRUCTURAL DRAWING. BOX. SINKER, OR OTHER NAILS TYPES DO NOT ACHIEVE THE REQUIRED CONNECTION STRENGTH. POWER DRIVEN NAILS MAY BE USED. THEY MUST BE EQUIVALENT IN LENGTH AND SHANK DIAMETER TO THE PENNYWEIGHT NAILS THEY ARE REPLACING. ALL POWER DRIVEN FASTENERS SHALL BE MANUFACTURED AND INSTALLED PER ESR-1539. ALL NAILING SHALL BE PER IBC TABLE 2304.9.1 UNLESS NOTED OTHERWISE IN THE STRUCTURAL DRAWINGS. ATTACH ALL MECHANICAL FRAMING ANCHORS AND HANGERS WITH COMMON NAILS OR OTHER APPROVED FASTENERS PER THE MANUFACTURER'S SPECIFICATIONS TO ACHIEVE 100% OF THE MAXIMUM LISTED CAPACITY OF THE HANGER UNLESS NOTED OTHERWISE. COMMON NAILS SHALL BE OF THE FOLLOWING MINIMUM DIMENSIONS:

PENNYWEIGHT	SHANK DIAMETER	LENGTH	HEAD DIAME
6d	0.113"	2"	0.266"
8d	0.131"	2 1/2"	0.281"
10d	0.148"	3"	0.312"
16d	0.162"	3 1/2"	0.344"
20d	0.192"	4"	0.406"

HOLES FOR BOLTS SHALL BE A MINIMUM OF 1/32" AND A MAXIMUM OF 1/16" LARGER THAN THE BOLT SHANK DIAMETER, A METAL PLATE, STRAP, OR WASHER NOT LESS THAN A STANDARD CUT WASHER SHALL BE BETWEEN THE WOOD AND THE BOLT HEAD AND THE WOOD AND THE NUT. PREDRILL LEAD HOLES AS REQUIRED TO PREVENT SPLITTING. WHERE SCREWS ARE INDICATED FOR WOOD TO WOOD ATTACHMENT USE STANDARD WOOD SCREWS (PER ANSI B18.6.1) UNLESS NOTED OTHERWISE.

PLYWOOD

ALL PLYWOOD SHALL BE C-D INTERIOR SHEATHING, STRUCTURAL 2 OR BETTER WITH EXTERIOR GLUE AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. (ON ROOFS WHERE PLYWOOD IS LAYED UP WITH FACE GRAIN PARALLEL TO NIDDODTE LISE A MINIMUM OF 5 DI V DI VWOOD), MAYIMUM MOISTUDE CONTENT AT TIME OF INSTALLATION BE LESS THAN 16%. STAGGER JOINTS. ALL NAILING, COMMON NAILS. WHERE SCREWS ARE INDICATED FOR WOOD TO WOOD ATTACHMENTS, USE WOOD SCREWS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATIO AND SHALL BE ATTACHED AS FOLLOWS UNLESS NOTED OTHERWISE: SPAN/INDEX EDGE USE THICKNESS RATIO ATTACHMENT

ROOF	1/2"	32/16	 10d @
FLOOR	3/4" T&G	48/24	 SCREWS
SHEAR WALL	3/8"	24/0	 - 8d @ 6"
	(U.N.O - SEE PLA	ANS	•
	AND SHEARWAL	L	
	SCHEDULE)		

WOOD SCREWS AT FLOOR SHEATHING SHALL BE #8 X 2 1/2" LONG FOR SHEATHING LESS THAN 1" THICK. SCREWS AT FLOOR SHEATHING SHALL BE #8 X 3" LONG FOR SHEATHING LESS THAN 1 1/4" THICK. ALL FLOOR SHEATHING SHALL BE GLUED TO JOISTS WITH AN APA AFG-01 QUALIFIED GLUE. ALTERNATE

AMERICAN PLYWOOD ASSOCIATION (APA) PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFING CONTRACTOR. WHERE ROOF IS TO BE GUARANTEED, IT MAY NOT BE USED WITHOUT PRIOR APPROVAL FROM BUILT-UP ROOF SYSTEM MANUFACTURER. RATED SHEATHING SHALL COMPLY WITH LC C. REPORT NO. NER-108. EXPOSURE 1. AND SHALL HAVE A SPAN RATING FOULVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/32") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

WOOD DECK:

NOMINAL 1 X 6 DECKING. TONGUE AND GROOVE TYPE. MINIMUM Fb - 1,200 PSI, MINIMUM E = 1,800,000 PSI. INSTALL WITH TONGUES UP SLOPE ON PITCHED ROOFS, AND OUTWARD IN THE DIRECTION OF LAYING ON FLAT ROOFS, NAIL EACH PLANK WITH 2 10d NAILS AT EACH SUPPORT. DECK SHALL BE INSTALLED AS SIMPLE SPAN WITH ALL PLANKS BEARING ON TWO SUPPORTS, FOR REFERENCE AND/OR ADDITIONAL INFORMATION, SEE SECTION TITLED "SHEATHING, FLOORING, AND DECKING," ON PAGE 4-105 OF THE SECOND EDITION OF THE AITC TIMBER CONSTRUCTION MANUAL.

GENERAL:

DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THRU THE ARCHITECT. DOUBLE UP FLOOR JOISTS AND BLOCKING UNDER PARTITIONS. PROVIDE 2" SOLID BLOCKING AT SUPPORTS OF ALL JOISTS. DOUBLE UP STUDS AT JAMBS AND AS REQUIRED UNDER BEAMS IN BEARING WALLS, EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON H3 ANCHOR TOP AND BOTTOM, EXCEPT AT THOSE WALLS WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. PROVIDE 2 X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO TABLE 23-II-B-1 OF THE UNIFORM BUILDING CODE. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT I.C.C. APPROVAL

DO NOT SUSPEND ANY SPRINKLERS, PIPING, CEILINGS OR ANY OTHER ITEMS FROM 2X JOISTS IN PANELIZED ROOF SYSTEM.

GENERAL STRUCTURAL NOTES APPLY UNLESS NOTED OTHERWISE

ANCHORAGES

ED IN POUNDS PER SQ. INCH (PSI) perp Fc E

TER MIN. EMBEDMENT 1 1/4" 1 3/8" 1 1/2" 1 5/8"

INTERMEDIATE ATTACHMENT @ 6" O.C. ----- 10d @ 12" O.C. /S @ 6" O.C. ----- SCREWS AT 10" O.C. --- 8d @ 12" O.C.

- 1. SILL PLATES RESTING ON CONCRETE OR MASONRY SHALL BE TREATED FIR OR FOUNDATION GRADE REDWOOD. ANCHOR BOLTS AT SILL PLATES SHALL BE 5/8" DIA x 7" EMBED AT 72" O.C. U.N.O. ON PLAN, DETAIL OR SCHEDULE. HOLDOWN BOLTS SHALL NOT BE CONSIDERED AS ANCHOR BOLTS.
- 2. INTERIOR SILL PLATES (6" AWAY FROM EDGE OF CONCRETE OR STEP) MAY BE ANCHORED WITH EXPANSION BOLTS IN LIEU OF ANCHOR BOLTS, EXPANSION BOLTS SHALL BE THE SAME DIAMETER AND SPACING AS ANCHOR BOLTS AND SHALL BE EMBEDDED 4" MINIMUM. INSTALL PER MANUFACTERER'S RECOMMENDATIONS AND I.C.C. REPORT. CONTRACTOR MUST LOCATE TENDONS PRIOR TO DRILLING TO AVOID DAMAGING TENDONS.
- 3. ALL METAL IN CONTACT WITH TREATED WOOD SHALL BE CORROSION RESISTANT. CONTRACTOR SHALL COORDINATE WITH SUPPLIER TO PROVIDE ADEQUATE CORROSION RESISTANT METALS (NAILS, WASHERS, BOLTS, ETC.) BASED UPON THE CHEMICALS USED IN TREATED WOOD.

ELECTRICAL CONDUIT IN CONCRETE SLABS:

ELECTRICAL CONDUIT SHALL BE RIGID STEEL CONDUIT OR FLEXIBLE PLASTIC CONDUIT. ALUMINUM CONDUIT IS PROHIBITED. CONDUIT WITH A MAXIMUM OUTSIDE DIAMETER OF 1/6 TIMES THE SLAB THICKNESS MAY BE EMBEDDED IN ONE LAYER AT THE MID-DEPTH OF SLABS. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE 3 TIMES CONDUIT DIAMETER. CONDUIT SHALL BE FIRMLY CHAIRED AND TIED TO PREVENT DISPLACEMENT DURING POURING, PLACE #3 AT 12 INCHES ADDITIONAL REINFORCING ABOVE AND BELOW. PERPENDICULAR TO THE CONDUIT. THE ADDED REINFORCING SHALL EXTEND 1'-0" PAST THE CONDUIT ON BOTH SIDES. FOR CONDUIT PLACED IN SLABS ON METAL DECKING, CONDUIT SHALL RUN IN THE METAL DECK FLUTES PER THE TYPICAL CONDUIT IN SLAB ON METAL DECK DETAIL.

EXPANSION AND SCREW ANCHORS:

USE STUD TYPE EXPANSION ANCHOR WITH A SINGLE PIECE WEDGE ONLY WHERE NOTED ON PLANS. IF USE IS REQUESTED FOR OTHER THAN WHERE NOTED CONTACT STRUCTURAL ENGINEER THROUGH ARCHITECT FOR APPROVAL.

CONTRACTOR SHALL SUBMIT MANUFACTURER'S SIZE AND STRENGTH DATA TO ENGINEER THROUGH ARCHITECT PRIOR TO CONSTRUCTION. INSTALL ALL BOLTS AS OUTLINED IN MANUFACTURER'S SPECIFICATIONS, UTILIZING PROPER SIZE AND TYPE OF DRILL, CLEANING HOLE, DRIVING AND TIGHTENING BOLT.

IN CONCRETE:

ANCHORS USED MUST HAVE ICC APPROVAL AND INCLUDE HILTI KWIK BOLT TZ (ESR-1917), AND SIMPSON STRONG BOLT (ESR-1771), AND SIMPSON TITEN HD (ESR-2713), HILTI KWIK HUS-EZ (ESR-3027), OR APPROVED EQUAL.

EPOXY ANCHORS IN CONCRETE:

INJECTABLE ADHESIVE SHALL BE USED FOR INSTALLATION OF REINFORCING STEEL DOWELS OR THREADED ANCHOR RODS AND INSERTS INTO NEW OR EXISTING CONCRETE OR SOLID GROUTED CONCRETE MASONRY UNITS ONLY WHERE SPECIFIED ON PLANS. IF USE IS REQUESTED FOR OTHER THAN WHERE NOTED CONTACT STRUCTURAL ENGINEER THROUGH ARCHITECT FOR APPROVAL. ADHESIVE SHALL BE FURNISHED IN SIDE BY SIDE PACKS WHICH KEEP COMPONENT A AND COMPONENT B SEPARATE. USE ONLY INJECTION TOOLS AND STATIC MIXING NOZZLES RECOMENDED BY MANUFACTURER. MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED.

IN CONCRETE

ANCHORS USED MUST HAVE I.C.C. APPROVAL IN CRACKED CONCRETE AND INCLUDE SIMPSON SET-XP (ESR-2508), HILTI HIT-RE500-SD (ESR-2322), OR APPROVED EQUIVALENT. THE USE OF ANY EPOXY ANCHOR MUST BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO INSTALLATION.

STRUCTURAL FILL:

ALL FILL PLACED TO SUPPORT SLABS ON GRADE, BEHIND PERMANENT WALLS, AND AROUND ALL DRAINS SHALL CONSIST OF WELL GRADED, GRANULAR MATERIAL PER THE SPECIFICATIONS, SOILS FOR STRUCTURAL FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. STRUCTURAL FILL SHALL BE PLACED ON SOUND NATIVE MATERIAL. PROOF-ROLL CUT AREAS WHICH PROVIDE SUPPORT FOR PERMANENT STRUCTURES. AREAS WHICH ARE EXCESSIVELY YIELDING, AS DETERMINED BY THE CONTINUOUS OBSERVATION OF THE GEOTECHNICAL ENGINEER. SHALL BE OVEREXCAVATED AND REPLACED WITH STRUCTURAL FILL, STRUCTURAL FILL SHALL BE PLACED PER THE SPECIFICATION. USE LEAN CONCRETE FILL BELOW ALL PIPES EXISTING OUT OF BASEMENT WALL, FULL HEIGHT OF WALL. CONCRETE SHALL CONTAIN 2 SACKS OF CEMENT PER YARD.

NOTES ON CRACKING OF CONCRETE STRUCTURES:

CRACKING IS INHERENT TO THE MATERIAL PROPERTIES OF CONCRETE CONSTRUCTION (INCLUDING POST-TENSIONED CONCRETE STRUCTURES). WHILE EVERY EFFORT HAS BEEN MADE TO MINIMIZE THE EFFECTS OF UNSIGHTLY CRACKING, THE PRESENCE OF CRACKS ARE NORMAL AND UNAVOIDABLE. THE DESIGN OF THE CONCRETE STRUCTURAL ITEMS HAVE BEEN ANALYZED USING A "CRACKING SECTION." THE PRESENCE OF THE CRACKING SHOULD NOT BE CONSIDERED DETRIMENTAL TO THE STRUCTURE. CRACKS LARGER THAN 10 MILS SHALL BE FILLED AND SEALED WITH AM APPROVED CRACK FILLER TO PREVENT FUTURE DETERIORATION. ALLOWANCE SHALL BE MADE IN THE CONSTRUCTION BUDGET FOR SEALING OF SUCH CRACKS. IN SOME CASE, CRACKS DO NOT APPEAR UNTIL WELL AFTER CONSTRCUTION HAS BEEN COMPLETED. IT IS THE RESPONSIBILITY OF THE OWNER TO MAINTAIN THE STRUCTURE PROPERLY OVER THE LIFE OF THE STRUCTURE. CONCRETE CRACKS, SHOULD THEY OCCUR, SHALL BE FILLED AND SEALED TO PREVENT PREMATURE DETERIORATION OF THE STRUCTURE.

SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON HIS REVIEW.

VERIFY ALL DIMENSIONS WITH ARCHITECT AND ALL FINISHED GRADE WITH CIVIL DRAWINGS.

ANY CHANGES SUBSTITUTIONS OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER OR FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNLESS NOTED ACCORDINGLY

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT ARE NOT TO BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY

REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

FOR THE PURPOSES OF THIS SECTION, DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND THAT ARE TO BE SUBMITTED TO

DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE PROFESSIONAL IN RESPONSIBLE CHARGE FOR REVIEW. THE CONTRACTOR SHALL FORWARD THE REVIEWED DOCUMENTS TO BUILDING OFFICAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE **BUILDING OFFICIAL**

GENERAL:

ENTIRE CONTRACT DOCUMENTS SHALL BE USED TO BUILD BUILDING. SOME CRITICAL ITEMS REQUIRED BY OTHER DISCIPLINES MAY NOT BE SHOWN ON STRUCTURAL DRAWING (i.e. WALL, FLOOR AND ROOF OPENING, ARCHITECTURAL, MECHANICAL AND PLUMBING LOADS, SUPPORT PLATES ETC.)

ITEMS SHOWN BY OTHER DISCIPLINES WITH REFERENCE TO STRUCTURAL DRAWING BUT NOT SHOWN ON THESE STRUCTURAL DOCUMENT SHALL BE CONSIDERED DESIGN BUILD ITEMS. CONTRACTOR SHALL SUBMIT DESIGN BY OTHERS FOR REVIEW.

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE. BUT NOT BE LIMITED TO. BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS. METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND

OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF HE CHOOSES AN OPTION, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT

ALL DIMENSIONS SHOWN (INCLUDING ELEVATIONS) ON STRUCTURAL DRAWINGS ARE TO ASSIST CONTRACTOR IN VERIFICATION. SCALING DIMENSIONS FROM DRAWINGS IS NOT PERMITTED. LOCATION OF ALL ITEMS SHALL BE DETERMINED BY DIMENSIONS OR NOTES ONLY; DO NOT USE GRAPHIC APPEARANCE TO ASSUME SPECIFIC I OCATIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL AND FINISHED GRADE WITH CIVIL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS,

THE GREATER REQUIREMENTS SHALL GOVERN.

ENGINEER REGISTERED IN THE STATE OF ARIZONA. SUPPLIER OF ENGINEERED STRUCTURAL COMPONENTS (i.e. STEEL JOISTS, STAIRS, PRECAST ITEMS) SHALL BE RESPONSIBLE FOR COMPLETE DESIGN AND SHALL USE ENTIRE CONTRACT DOCUMENTS TO INCLUDE ALL LOADS AND DETAIL REQUIREMENTS FROM ALL DISCIPLINES. SUPPLIER SHALL PROVIDE ADDITIONAL MATERIAL REQUIRED TO MEET ALL THEIR REQUIREMENTS FOR INSTALLATION (i.e. WIDER BEARING PLATES,

SHIMS, ERECTION BOLTS ETC.). STRUCTURAL STEEL SUPPLIER SHALL FURNISH BOLTS FOR OSHA CONNECTIONS (SEE DRAWINGS FOR DETAILS).

BUILDING TOLERANCES:

STANDARD TOLERANCES SHALL BE BASED ON THE REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE AND ACI 117, STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS. SEQUENCING CONSTRUCTION AND LATERAL STABILITY:

THE STRUCTURAL COMPONENTS BY THEMSELVES ARE A NON-SELF-SUPPORTING STRUCTURE. LATERAL FORCES DUE TO WIND, EARTHQUAKE, OR SOIL ARE CARRIED BY THE ROOF AND FLOOR DIAPHRAGMS TO THE LATERAL SYSTEM. CERTAIN ELEMENTS SHOWN ON OR LOCAL STABILITY OF OTHER ELEMENTS (SUCH AS BEAMS, COLUMNS, AND WALLS), IF, DUE TO SEQUENCING OF CONSTRUCTION, THESE STABILITY FLEMENTS ARE NOT IN PLACE. THE CONTRACTOR SHALL RETAIN A LICENSED STRUCTURAL ENGINEER WHO SHALL INVESTIGATE WHERE TEMPORARY SHORING/BRACING IS REQUIRED, AND SHALL DESIGN THIS TEMPORARY SHORING/BRACING.

MISCELLANEOUS:

REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, ELEVATOR, OR OTHER SPECIALTY ENGINEERING DRAWINGS FOR DIMENSIONS NOT SHOWN, INCLUDING BUT NOT LIMITED TO: SIZE AND LOCATION OF CURBS, FOUIPMENT HOUSEKEEPING PADS, WALLAND, FLOOR OPENINGS, BLOCKOUTS, FLOOR DEPRESSIONS, SUMPS, DRAINS, ANCHOR BOLTS, EMBEDDED ITEMS, ARCHITECTURAL TREATMENT, ETC. CONTRACTOR SHALL VERIFY DIMENSIONS AND RESOLVE DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. WHERE SECTIONS ARE INDICATED ON THE PLAN BY A NUMBER AND A DRAWING NUMBER THUS. 1/S5.01, THE INDICATED SECTION (1) IS SHOWN ON STRUCTURAL DRAWING S5.01.

ALL WINDOW SYSTEMS SHALL BE DESIGNED TO ACCOMMODATE VERTICAL DEFLECTION OF THE STRUCTURE OF 1/2" MINIMUM LIVE LOAD DEFLECTION, UNLESS GREATER VALUE IS NOTED ON PLANS OR DETAILS.

FLOOR FLATNESS/LEVELNESS SHALL MEET ARCHITECTURAL SPECIFICATIONS (1/4" IN 10 FOOT MINIMUM LEVELNESS UNLESS TIGHTER REQUIREMENT IN SPECIFICATIONS) IN HEIGHT FOR ALL STRUCTURAL SYSTEMS. CONTRACTOR SHALL INCLUDE COST FOR LEVELING ALL FLOORS. FOR ESTIMATING PURPOSES ONLY, ASSUME 1/2" THICK LEVELING AGENT OVER 15% OF FLOOR AREA.

DEFERRED SUBMITTAL ITEMS: - PREFABRICATED WOOD TRUSSES

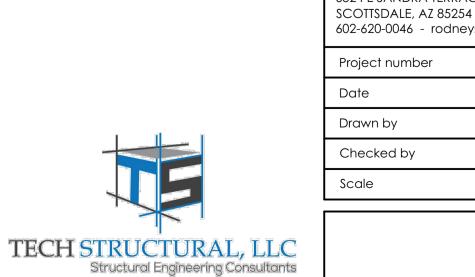
DEFERRED SUBMITTALS: (PER 2016 IBC 107.3.4.1)

THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.

ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF AN

THE CONTRACTOR SHALL PROVIDE THIS SHORING/BRACING UNTIL THE REQUIRED STRUCTURAL ELEMENTS AND THEIR CONNECTIONS HAVE BEEN INSTALLED AND REACH THEIR FINAL DESIGN STRENGTHS.



18521 E. Queen Creek Rd. STE 105-170

Queen Creek, AZ 85142

Phone: (602) 920-5756 Email: info@techstructural.com OWNER

PROPERTY

TPSA LLC

Illini House

23 E Illini St. Phoenix, AZ 85040



GENERAL STRUCTURAL NOTES

REFER TO "SPECIAL INSPECTIONS" SCHEDULE THIS SHEET FOR ADDITIONAL INFORMATION.

Note to Contractor Regarding Pricing/Bidding of City Submittal Drawings:

THESE DRAWINGS HAVE BEEN PREPARED FOR CITY SUBMITTAL. AND ARE NOT TO BE CONSIDERED 100% CONSTRUCTION DOCUMENTS UNTIL CITY PLAN REVIEW HAS BEEN COMPLETED AND FINAL BUILDING PERMIT HAS BEEN ISSUED. IF THESE DOCUMENTS ARE TO BE USED FOR PRICING, BID, OR STEEL MILL ORDER, THE CONTRACTOR SHALL PROVIDE IN THE PROJECT BUDGET AN ALLOWANCE FOR POTENTIAL CHANGES BETWEEN THE CITY SUBMITTAL DRAWINGS AND THE FINAL APPOVED SUBMITTAL AND CONSTRUCTION DOCUMENTS. ADDITIONALLY, MISCELLANEOUS ITEMS MAY NOT BE SHOWN ON THESE DRAWINGS. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, ELEVATOR AND EQUIPMENT SUPPORTS, BLOCKOUTS, ETC. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND OTHER SPECIALTY DRAWINGS FOR ADDITIONAL INFORMATION. THE CONSTRUCTION BUDGET SHALL INCLUDE THESE ITEMS. THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR CHANGE ORDER COSTS INCURRED (INCLUDING DISCARDED MATERIAL COSTS) DUE TO BIDDING OR STEEL MILL ORDER FROM THESE DRAWINGS. CONTACT STRUCTURAL ENGINEER FOR CLARIFICATION IF THE SCOPE AND QUANTITY OF ALLOWANCE TO BE CARRIED IS NOT CLEAR.

SPECIAL INSPECTION

SPECIAL INSPECTION:						STEEL CONSTRUCTION OTHER THAN STRUCTURA	L STEEL:		REFERENCED	IBC
PER IBC CHAPTER 17, SPECIAL INSPECTION IS REQUIR	ED FOR THE FOLLOWING	G ITEMS:				VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	STANDARD (NOTE1)	REFERENCE
CONCRETE: VERIFICATION AND INSPECTION	CONTINUOUS	6 PERIODIC	REFERREN STANDARD (NOTE 1)		IBC EFERENCE	 Material verification of cold-formed steel deck: Identification markings to conform to ASTM standards specified in the approved construction documents. Manufacturer's certified test reports. 		X X	APPLICABLE ASTM MATERIAL STANDARDS	
 Inspection of reinforcing steel, including prestressing tendons, and placement. 	-	x	ACI 318: 3.5, 7.1-7.7		1910.4	2. Inspection of welding:				
2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b.	-	-	AWS D1.4 ACI 318: 3.5.2			 a. Cold formed steel deck: 1) Floor and roof deck welds. b. Reinforcing steel: 1) Verification of weldability of reinforcing 	-	Х	AWS D1.3	
 Inspect anchors to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used. 	-	x	ACI 318: 8.1.3, 21.2.8	190	08.5, 1909.1	steel other than ASTM A 706. 2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete	-	X	AWS D1.4 ACI 318: 3.5.2	
 Inspection of anchors post-installed in hardened concrete members. 	_	x	ACI 318: 3.8.6, 8.1.3, 21.2.8		1909.1	and shear reinforcement. 3) Shear reinforcement. 4) Other reinforcing steel.	X X -	- - X		
5. Verifying use of required design mix.	-	х	ACI 318: CH. 4, 5.2-5.4		1904.2, 0.2, 1910.3	SOILS: Not the responsibility of the structural engineer. Special inspection certificate to be completed by				
 At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. 	x	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8		1910.10	 geotechnical engineer. 1. Verify materials below shallow foundations are adequate to achieve the design bearing apacity. 2. Verify excavations are extended to proper depth and have reached proper material. 		x x		
 Inspection of concrete and shotcrete placement for proper application techniques. 	x	-	ACI 318: 5.9, 5.10		1910.6, 0.7, 1910.8	 Perform classification and testing of compacted fill materials. Verify use of proper materials, densities and lift thicknesses during placement and compaction of 	-	Х		
 Inspection for maintenance of specified curing temperature and techniques. 	-	х	ACI 318: 5.11-5.13		1910.9	compacted fill. 5. Prior to placement of compacted fill, observe subgrade and verify that site has been properly	Х			
 Inspect formwork for shape, location and dimensions of the concrete member being formed. 		x	ACI 318: 6.1.1			prepared. EXPANSION AND EPOXY BOLTS:	-	Х		
NOTES: 1. WHERE APPLICABLE, SEE ALSO SECTION 1707.1, SI 2. TABLES TAKEN DIRECTLY FROM IBC FOR REFEREN		R SEISMIC RESIST	ANCE.			 During placement of all expansion and epoxy bolts, for visual verification of hole diameter and depth and placement of bolt and/or epoxy. 	-	Х		
MASONRY LEVEL 1 INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LIST	5/TMS 402	ACI 530.1/ASCE 6/TMS 602 (NOTE 1)	IBC REFERENCE	 DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR: A) THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATION. B) THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE ENGINEER. C) UPON COMPLETION OF THE ASSIGNED WORK THE ENGINEER OR ARCHITECT SHALL COMPLETE AND 				
 As masonry construction begins, the following Shall be verified to ensure compliance: Proportions of site-prepared mortar. Construction of mortar joints. Location of reinforcement, connectors, 	:	X X		ART. 2.6A ART. 3.3B ART. 3.4,3.6A						
 The inspection program shall verify: a. Size and location of structural elements. b. Type, size and location of anchors, 	-	х		ART. 3.3G		SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE IN CONFORMANCE WITH THE APPROVED PLANS AND SPECI WORKMANSHIP PROVISIONS OF THE CODE.				

ART. 2.4,3.4

ART. 1.8C, ART. 1.8D

ART. 3.2D

ART. 3.4

ART. 2.6B

ART. 3.5

ART. 1.4

ART. 1.5

SEC. 2104.3,

2104.4

IBC REFERENCE

MASONRY LEVEL 1 INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	ACI 530/ASCE 5/TMS 402 (NOTE 1)	ŀ
 As masonry construction begins, the following Shall be verified to ensure compliance: Proportions of site-prepared mortar. Construction of mortar joints. Location of reinforcement, connectors, 	-	x x		
 The inspection program shall verify: a. Size and location of structural elements. b. Type, size and location of anchors, including other details of anchorage 	-	x		
of masonry to structural members, frames or other construction. c. Specified size, grade and type of	-	x	SEC.1.2.2(e), 2.1.4,3.1.6	
e. opconica size, grade and type of reinforcement. d. Welding of reinforcing bars.	×	x -	SEC. 1.13 SEC. 2.1.10.7.2, 3.3.3.4(b)	
e. Protection of masonry during cold weather	-	x		
 Prior to grouting, the following shall be verified to ensure compliance: a. Grout space is clean. b. Placement of reinforcement and connectors c. Proportions of site-prepared grout and d. Construction of mortar joints. 	-	x x	SEC. 1.13	
 4. Grout placement shall be verified to ensure Compliance with code and construction document provisions. a. Grouting of prestressing bonded tendons. 	x x	-		Ī
 Preparation of any required grout specimens, Mortar specimens and/or prisms shall be observed. 	x	-	SEC. 2105.2.2, 2105.3	
 Compliance with required inspection provisions of the construction documents and the approved submittal shall be verified. 		x		T
NOTES: 1. THE SPECIFIC STANDARDS ARE THOSE LISTED IN CHAPTE 2. TABLES TAKEN DIRECTLY FROM INC. FOR REFERENCE	R 35	•		-

1.	THE SPECIFIC STANDARDS ARE THOSE LISTED IN CHAPTER
2.	TABLES TAKEN DIRECTLY FROM IBC FOR REFERENCE.

STEEL: VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD (NOTE1)
 Material verification of high-strength bolts, nuts and washers: Identification markings to conform to ASTM standards specified in the approved construction documents. Manufacturer's certificate of compliance required. 	-	x	APPLICABLE ASTM MATERIAL SPECS AISC 360, SEC. A3.3
2. Inspection of high-strength bolting: a. Bearing-type connections. AISC 360, Section M2.5 1704.3.3		x	
 Material verification of structural steel: a. Identification markings to conform to ASTM standards specified in the approved construction documents. b. Manufacturers' certified mill test reports. 	-	-	AISC 360, SEC. M2.5 ASTM A 6 OR ASTM A 568
 4. Material verification of weld filler materials: a. Identification markings to conform to AWS specification in the approved construction documents. b. Manufacturer's certificate of compliance required. 	-	-	AISC 360, SEC. A3.5
 5. Inspection of welding: a. Structural steel: 1) Complete and partial penetration groove welds. 2) Multipass fillet welds. 3) Single-pass fillet welds > 5/16" 4) Single-pass fillet welds = 5/16" 5) Floor and roof deck welds. b. Reinforcing steel: 1) Verification of weld ability of reinforcing steel other than ASTM A 706. 2) Reinforcing steel-resisting flexural and Axial forces in intermediate and special Moment frames, and boundary elements of Special reinforcement. 3) Shear reinforcement. 4) Other reinforcing steel. 	- X X X - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - -	AWS D1.1 AWS D1.1 AWS D1.1 AWS D1.1 AWS D1.3 AWS D1.4 ACI 318: 3.5.2
 6. Inspection of steel frame joint details for compliance with approved construction documents: a. Details such as bracing and stiffening. b. Member locations. c. Application of joint details at each connection. 		X - -	

GENERAL STRUCTURAL NOTES APPLY UNLESS NOTED OTHERWISE

INTERPRETATION OF DRAWINGS

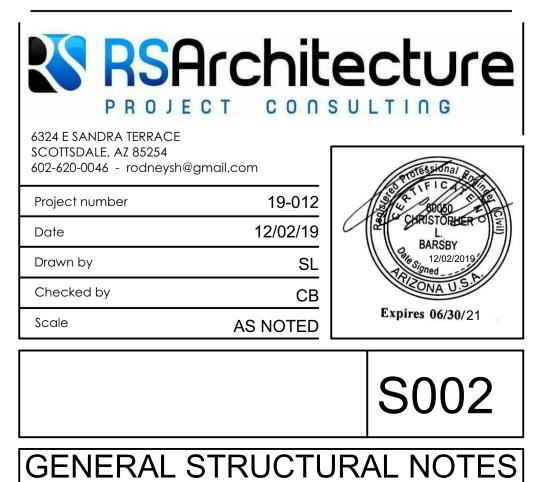
	ABBREV	/IATIONS				
	— — AGGREGATE BASE COURSE	GLB (GLULAM) – –	– — — GLUED-LAMINATED BEAM			
A/C — — — —	— — AIR CONDITIONER	I.F.W. — — — –	– – – INSIDE FACE OF WALL			
A.F.F. — — — —	— — ABOVE FINISHED FLOOR	HORIZ	— — — HORIZONTAL			
ALT. — — — —	— — ALTERNATE	K(KIP)	– – – 1000 POUNDS			
A.B. — — — —	— — ANCHOR BOLT	L.L	— — — LIVE LOAD			
@	— — AT (MEASUREMENT)	LBS (#)	– – – POUNDS			
ВМ — — — —	— — BEAM		— — — LONG LEG HORIZONTAL			
B.F.F — — — —	— — BELOW FINISHED FLOOR	LLV	– – – LONG LEG VERTICAL			
B.O.B. — — — —	— — BOTTOM OF BEAM	MFR('S) — — — –	– — — MANUFACTURER('S)			
B.O.D. — — — —	— — BOTTOM OF DECK	MAS C.J. — — — —	- — — MASONRY CONTROL JOINT			
B.O.F. — — — —	— — BOTTOM OF FOOTING	MECH'L — — — — —	– — — MECHANICAL			
BRG — — — —	— — BEARING	N/A	– – – NOT APPLICABLE			
C.I.P. — — — —	— — CAST IN PLACE	N.T.S. — — — — –	– – – NOT TO SCALE			
C.L. — — — —	— — CENTERLINE	O.C	– – – ON CENTER			
C.L.B. — — — —	— — CENTERLINE OF BEAM	O.F.W.— — — — –	– – – OUTSIDE FACE OF WALL			
C.L.C. — — — —	— — CENTERLINE OF COLUMN	OPP	– – – OPPOSITE			
C.L.F. — — — —	CENTERLINE OF FOOTING	P.C	– – – PRECAST CONCRETE			
C.L.W. — — — —	CENTERLINE OF WALL	PLF	– – – POUNDS PER LINEAR FOOT			
CLR ————	— — CLEAR	PREFAB — — — –	– – – PREFABRICATED			
CONC	— — CONCRETE	PSF	– – – POUNDS PER SQUARE FOOT			
CONC C.J	- — – CONCRETE CONTROL JOINT	PSI	POUNDS PER SQUARE INCH			
	– – – CONCRETE SAWCUT JOINT	REINF	– – – REINFORCING			
	— — CONCRETE MASONRY UNIT	SLH	– – – SHORT LEG HORIZONTAL			
CONN	CONNECTION	SLV	– – – SHORT LEG VERTICAL			
CONT	— — CONTINUOUS	SIM	— — — SIMILAR			
D.L. — — — — —	– — — DEAD LOAD	SQ	– – – SQUARE			
ØOR DIA	– – – DIAMETER	STD	– – – STANDARD			
DN	— — DOWN	T.L	– – – TOTAL LOAD			
DWG(S) — — — —	– — – DRAWING(S)	Т.О.В. — — — — –	— — — TOP OF BEAM			
	— — EDGE OF SLAB	T.O.D	– – – TOP OF DECK			
EQ	— — EQUAL	T.O.F. — — — — –				
		T.O.L				
	EXPANSION BOLT		- $-$ TOP OF MASONRY			
	- $-$ EXPANSION JOINT		- $-$ TOP OF PLATE			
E.W			- $-$ TOP OF STEEL			
	— — FINISHED FLOOR	T.O.W				
	— — FACE OF MEMBER	TYP				
F.O.S. — — — —	— — FACE OF STEEL		– – UNLESS NOTED OTHERWISE			
	— — FACE OF WALL	VERT				
	— — GAGE		– – – WELDED WIRE FABRIC			
	— — GALVANIZED		- $ -$ WITH			
	— — GENERAL STRUCTURAL NOTES					



PROPERTY

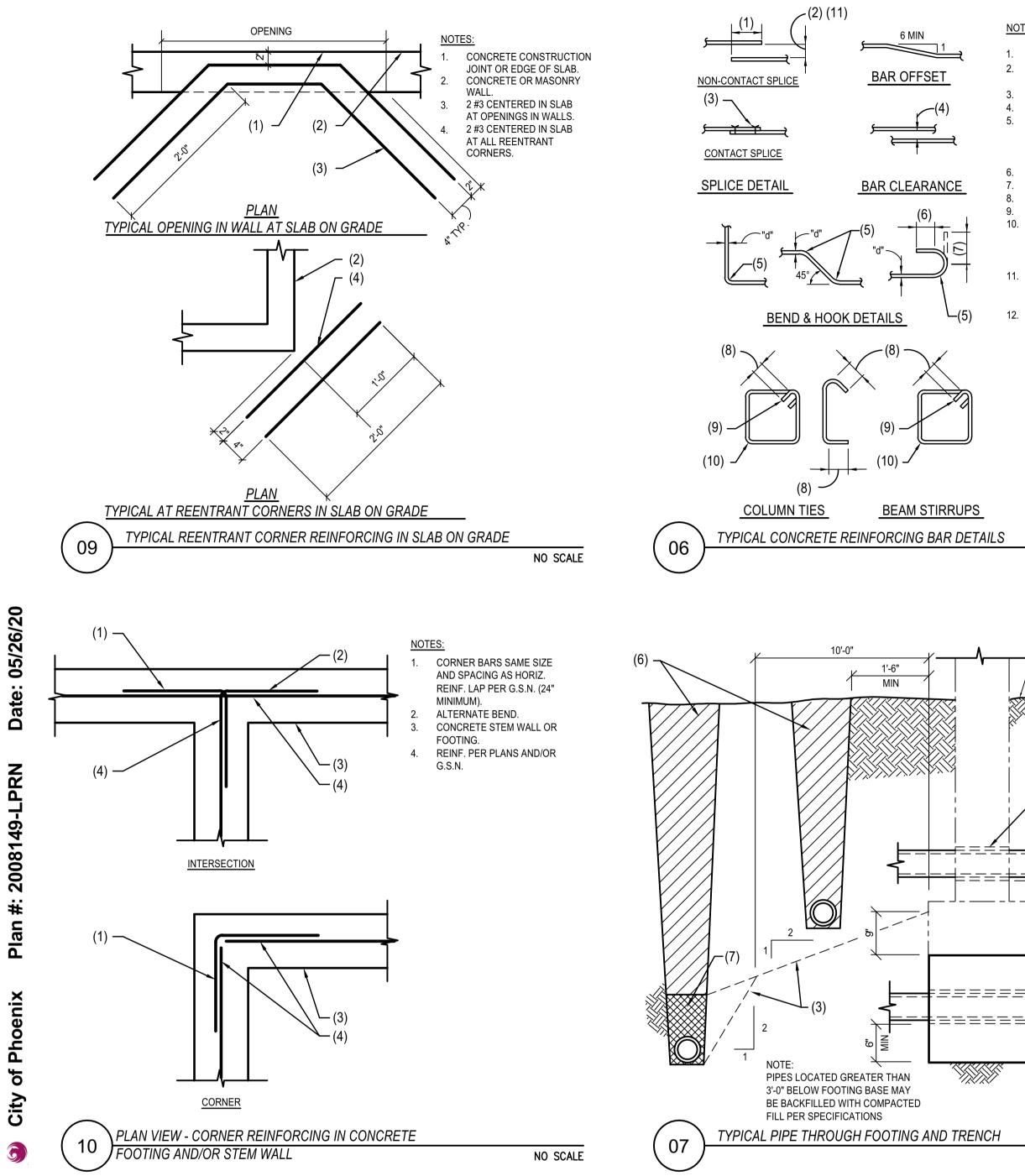
TPSA LLC

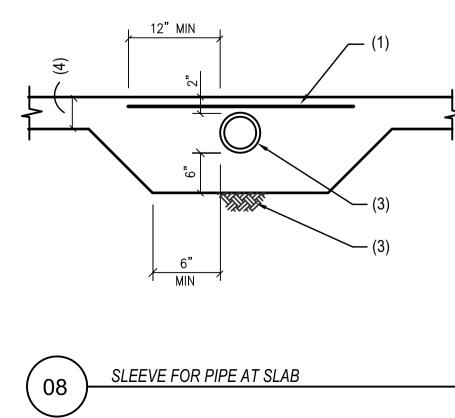
Illini House 23 E Illini St. Phoenix, AZ 85040





18521 E. Queen Creek Rd. STE 105–170 Queen Creek, AZ 85142 Phone:(602) 920–5756 Email:info@techstructural.com





(3) –

03

04

NOTES:

1. LAP - SEE G.S.N.

4. 1d (1" MINIMUM).

AND #18 BARS.

4d ((2 1/2" MINIMUM).

12d (90 DEGREE HOOK). 6d (3" MINIMUM). 135 DEGREE BEND.

10. BEND AROUND 1 1/2" Ø PIN FOR #3 BARS. BEND AROUND 2" Ø PIN FOR #4 BARS. BEND AROUND 2 1/2" Ø PIN FOR #5 BARS. - PRIOR APPROVAL MUST BE GIVEN BY OUR OFFICE TO ALLOW

NON-CONTACT SPLICES.

(12) 1

CIRCULAR COLUMN TIES

NOTES:

1. C.I. SLEEVE 2"

LARGER THAN PIPE.

EXCAVATION BELOW

THESE LINES NOT

4. CONCRETE FILL PIPE

5. 3'-0" MAXIMUM - STEP

90% DENSITY -

(ASTM D-698). EXISTING BUILDING.

PERMITTED.

NO SLEEVES PERMITTED.

TRENCH - EXTEND 2'-0" EACH SIDE OF SLEEVE.

FOOTING IF NECESSARY

IN ORDER TO MAINTAIN 3'-0" MAX HEIGHT. 6. BACK FILL PER SPECS.

NO SCALE

12. SEE TYPICAL LAP SCHEDULE.

3. WIRE TIES.

2. MAXIMUM 1/5 LAP LENGTH BUT

RADIUS=3d FOR BARS NOT

AND #11 BARS; 5d FOR #14

OVER #8; 4d FOR #9, #10

NOT MORE THAN 6".

TRENCH PARALLEL TO FOUNDATION

2D

2D

TYPICAL STEP IN CONCRETE FOOTING

MIN.

			CLASS	S B TENSIOI		LENGTHS		COMP. BARS	
	CONC. PSI	f'c = 2,50 f'c = 3,00		f'c = 4,00	0 PSI	f'c = 5,0 AND H		f	c = ALL
NOTES:	BAR LOCATION	REGULAR CLASS		REGULAR CLASS	TOP CLASS	REGULAR	TOP	STD LAP	ENCLOSE
1. FINISHED GRADE WHERE	SIZE	ULASS	ULASS	OLAGO	ULA33	ULASS			TIES
OCCURS. 2. DO NOT EXCAVATE A TRENCH CLOSER THAN A 45 DEGREE	#3	24"	31"	19"	24"	17"	22"	12"	12"
ANGLE BELOW BOTTOM OF FOOTING OR FOUNDATION. BOTTOM OF CONCRETE	#4	32"	41"	25"	33"	23"	29"	15"	12"
FOOTING. . BOTTOM OF TRENCH.	#5	39"	51"	31"	41"	28"	36"	19"	14"
	#6	47"	61"	37"	49"	34"	43"	23"	17"
	#7	69"	89"	54"	71"	49"	63"	26"	20"
	#8	78"	102"	62"	81"	56"	72"	30"	23"
	#9	88"	115"	70"	91"	63"	81"	34"	25"
	#10	100"	129"	79"	102"	70"	92"	38"	29"
	#11	110"	143"	87"	113"	78"	102"	42"	32"
NOTES: 1. LAP PER G.S.N. (24" MIN.)		. (1) .	(2)	<u> </u>	6 MIN		<u>NOTES:</u> 1. LAP -	SEE G.S.I	۷.
 TYPICAL. TOP OF WALL FOOTING. PIPE THRU STEM WALL AS 	ـــــر (2)	((BAR	OFFSET	≓.	 MAXI MOR WIRE 	MUM 1/5 L E THAN 6" TIES.	AP BUT NOT
OCCURS - SEE TYPICAL DETAIL. 4. RETURN TO FOOTING	(3) — 		I	<u>ب</u>	(4)	,	5. RADI OVEF	R #8; 4d FC	R BARS NOT R #9, #10
THICKNESS AS SHOWN ON PLAN.	SPLI	CE DETAIL		EAR CI		₹ CF	AND	#18 BARS.	5d FOR #14 5d FOR ALL S WITH 180
							6. 4d (4	REE HOOK ' MINIMUN 90 DEGRE).
	Л	<u> </u>	—"d"	– (5) –	(6) 	+	8. 6d (4 9. 135 E	MINIMUM). END.
		(5) (5) (5) (5) (5)					#3 B/ PIN F	RS. BEND OR #4 BAI	1 1/2" PIN FO AROUND 2" RS. BEND PIN FOR #5
		45 45	<u> </u>			(5)	#3 B/ PIN F	RS. BEND OR #4 BAI JND 2 1/2"	AROUND 2" RS. BEND
	(8)	45 45	<u> </u>				#3 BA PIN F AROI	RS. BEND OR #4 BAI JND 2 1/2"	AROUND 2" RS. BEND
NOTE: D = 2'-0" MAXIMUM.	(9)	45 45	<u> </u>	⇒ <u>DETAILS</u> (8) • (9) →			#3 BA PIN F AROI	RS. BEND OR #4 BAI JND 2 1/2"	AROUND 2" RS. BEND
	(9)	45 45	<u> </u>	⇒ <u>DETAILS</u> (8) · (9) (10)		(5)	#3 BA PIN F AROI	RS. BEND OR #4 BAI JND 2 1/2"	AROUND 2" RS. BEND

02

NO SCALE

NOTES:

1. FINISHED GRADE.

2. CONCRETE FOOTING - FOR CONSTRUCTION ABOVE, SEE

ADDITIONAL DETAILS.

4. EXCAVATE PER SOIL REPORT 5. EXISTING NATURAL GRADE.

6. PER SOILS REPORT (2'-0" MIN).

3. ENGINEERED COMPACTED FILL PER SOIL REPORT.

NO SCALE

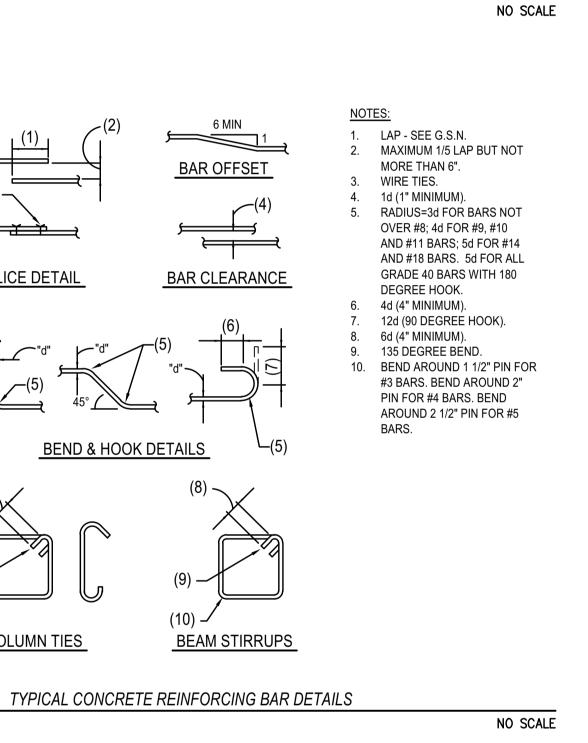
NOTES: 1. 4 X 4 - W1.4 X W1.4 W.W.F.

- OR #4 AT 12" O.C. 2. FIRM UNDISTURBED SOIL OR
- COMPACTED BASE.
- PIPE OR CONDUIT.
 TYPICAL SLAB THICKNESS.

 $\frac{2000}{2000}$ <mark>⊬ (6)</mark> NOTES: 1. FOR DEPTH OF FOOTING, SEE G.S.N. SEE SOILS REPORT AND G.S.N. FOR LOCATIONS WHERE (4) ENGINEERED FILL IS REQUIRED. TYPICAL SPREAD FOOTING ON ENGINEERED COMPACTED FILL 05 NO SCALE

NO SCALE

City of Phoenix Plan #: 2008149-LPRN Date: 05/26/20





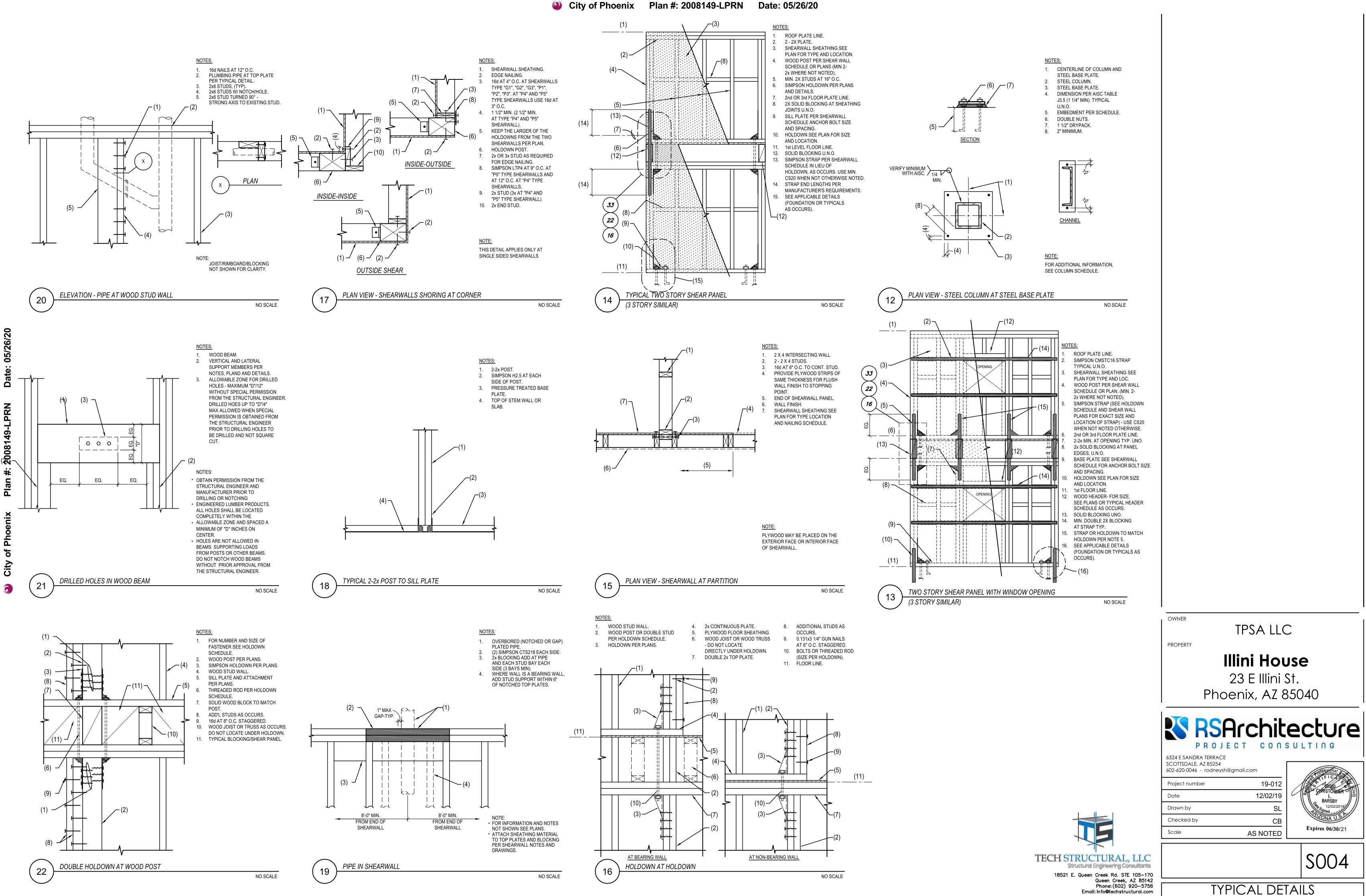
OWNER

PROPERTY

20

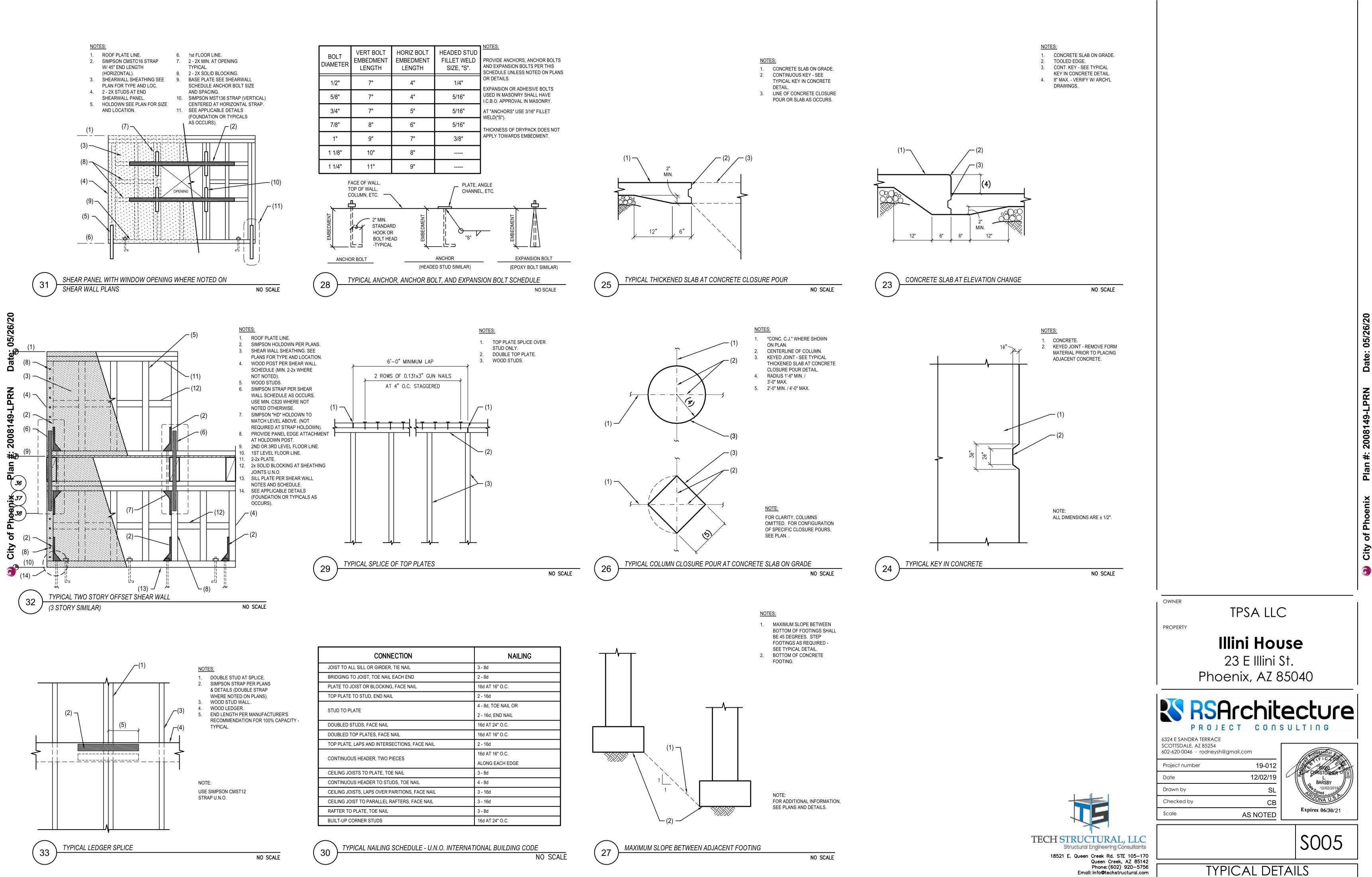


TPSA LLC



26/

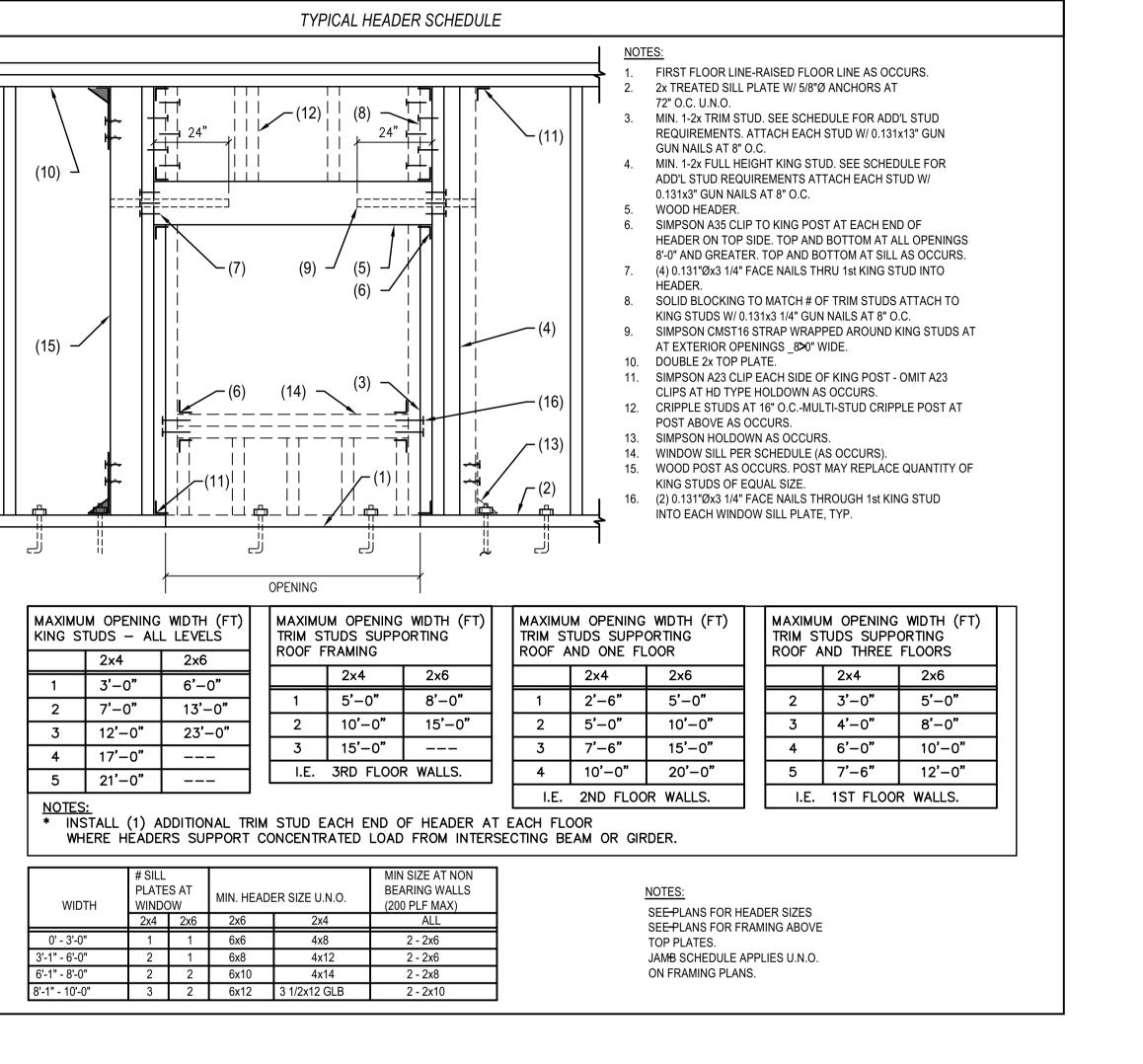
W City of Phoenix Plan #: 2008149-LPRN Date: 05/26/20





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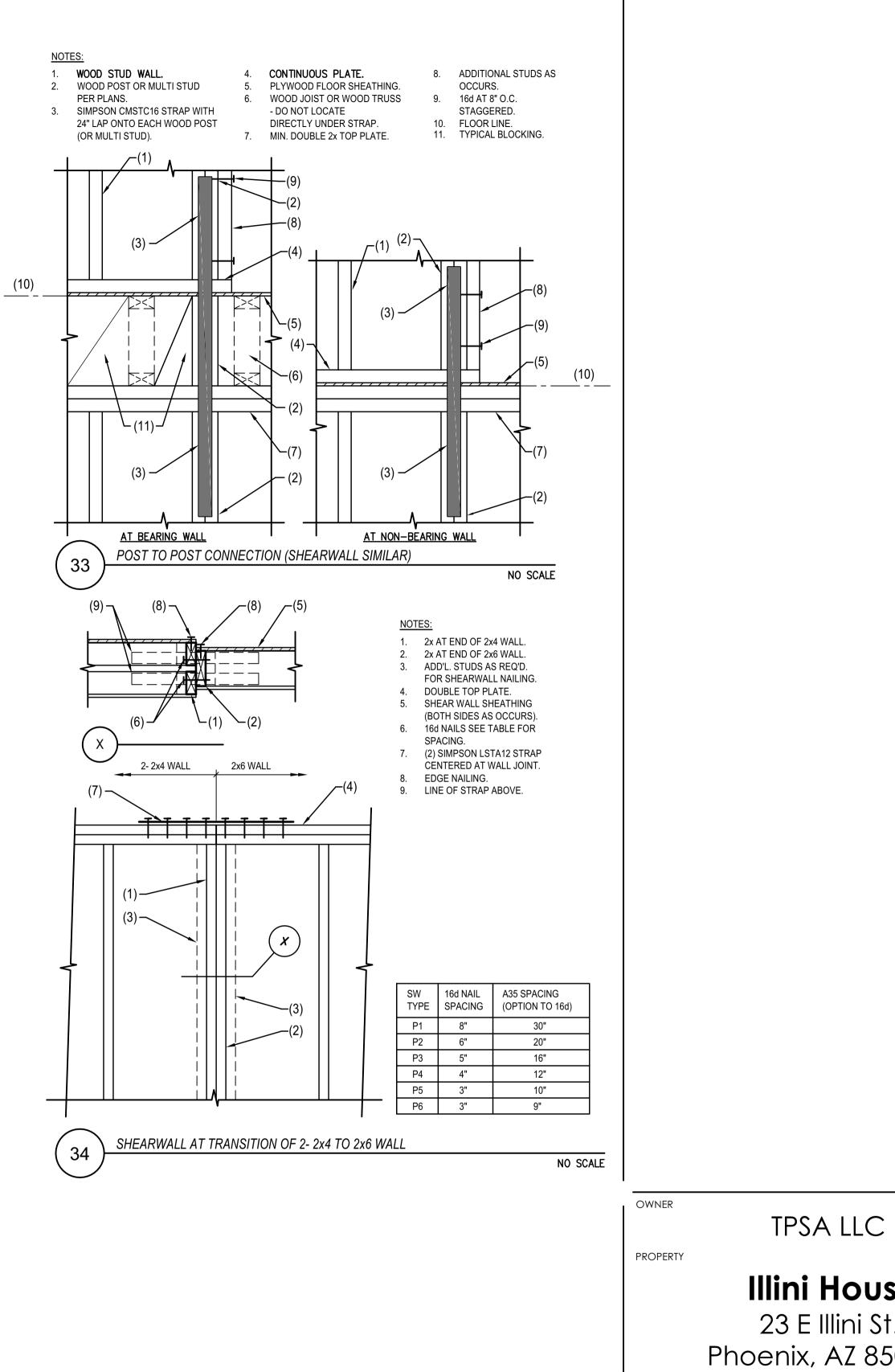
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TYPICAL HEADER SCHEDULE





NO SCALE

20

26/

05/

Date:





TYPICAL DETAILS

SHEAR WALL TYPE							
WALL MATERIAL NO.	NAILING	ALLOWABLE SHEAR (WIND)					
P1 3/8" CDX PLYWOOD (ALL EDGES BLOCKED)	8d COMMON NAILS AT 6" O.C. EDGE 12" O.C. FIELD	365#/FT.					

PLATE ATTACHMENT (1) (2) (3) (4)								
WALL NO.	BOTTOM PLATE TO CONCRETE	BOTTOM PLATE TO WOOD FRAMING	RIM JOISTS OR BLKG. TO TOP PLATE CONN.	ALTERNATE CONNECTION				
P1	5/8"Ø ANCHOR BOLTS AT 32" O.C.	12d GUN NAILS AT 4" O.C.	SIMPSON LTP4 AT 24" O.C.					
 GUN NAILS SHALL BE 12d (0.131) x 3 1/4" LONG MINIMUM. ALTERNATE CONNECTORS SHALL BE SIMPSON LTP4 WITH (12) 8d x 1 1/2" LONG NAILS, AND MAY BE USED IN LIEU OF 12d NAILS. WHEN SHEATHING REQUIRED ON BOTH SIDES OF WALL, DECREASE ATTACHMENT SPACING BY 1/2". PROVIDE MINIMUM 1/4"x3"x3" PLATE WASHERS AT ALL SHEARWALL ANCHOR BOLTS. USE 3/8"x5" PLATE WASHERS AT 2x6 SHEARWALLS WITH PLYWOOD SHEATHING BOTH FACES AND 3/8"x3 1/2"x3 1/2" PLATE WASHERS AT 2x4 SHEARWALLS WITH PLYWOOD SHEATHING BOTH SIDES. 								
	* AT EXTERIOR WALLS, LOCATE PLYWOOD JOINT IN THE MIDDLE OF DOUBLE SILL PLATE AND EDGE							

HOLDOWN SCHEDULE										
MARK	SIMPSON HOLDOWN	BOLT TO FOUNDATION	POST SIZE	POST CONNECTION	REMARKS	PLATE WASHER SIZE				
1	STHD14		2- 2x MIN.	30- 16d SINKERS						
2	CMSTC16		2- 2x MIN.	64- 16d SINKERS						
8d NAILS SHALL BE 0.131"Øx2 1/2" LONG16d NAILS SHALL BE 0.162"Øx3 1/2" LONG10d NAILS SHALL BE 0.148"Øx3" LONG16d SINKERS SHALL BE 0.148"Øx3 1/4" LONG										
(1) ALLOW BUILDING TO SHRINK PRIOR TO INSTALLING BOTH ENDS OF THE STRAPS TO MINIMIZE POTENTIAL FOR STRAP BUCKLING.										

CASE LTP4 CLIPS ARE NOT REQUIRED.

3.

SHEARWALL SCHEDULES

NAILING TO OCCUR ABOVE AND BELOW THE JOINT AS WELL AS IN THE TOP AND BOTTOM PLATES, BOTTOM PLATE TO RIM JOIST MAY BE 12d GUN NAILS AT 10" O.C. PLATE TO PLATE

ATTACHMENT SHALL BE 12d GUN NAILS PER BOTTOM PLATE TO WOOD FRAMING ABOVE. IN THIS

SHEAR	WALL	NOTES

- ORIENTED STRAND BOARD (OSB) PANEL GRADE 2-M-W MAY BE USED IN LIEU OF PLYWOOD. USE SAME THICKNESS AND NAILING AS NOTED FOR PLYWOOD PANELS AND SHALL HAVE CURRENT I.B.C.O. APPROVAL.
- WHERE FIREWALL REQUIREMENTS AT GYPSUM WALL BOARD SHEAR WALLS 2. EXCEED THIS SCHEDULE, USE THE MORE STRINGENT APPLICATION.
- SHEAR WALL OR SHEAR PANEL SHALL BE 2x4 OR 2x6 (MIN) AT 16" O.C. MAXIMUM.
- WHERE SHEAR WALL SHEATHING IS NOTED ON BOTH SIDES OF COMMON 4. STUD WALL, ALL WALL PLATE ANCHORS AND FASTENER SPACING SHALL BE 1/2" SPACING NOTED ON SCHEDULE.
- DRYWALL SHEAR WALLS SHALL BE PLACED ON INSIDE FACE OF EXTERIOR 5. STUDS EXCEPT WHERE CALLED FOR ON BOTH SIDES OF EITHER FACE OF INTERIOR STUDS.
- SHEAR WALL SHEATHING SHALL BE CONTINUOUS TO BASE PLATE AT TUB 6. LOCATIONS AND TO TOP PLATES AT FURRED DOWN CEILINGS.
- FRAMING AT ADJOINING PANEL EDGES SHALL BE 3 INCHES NOMINAL OR 7. WIDER (OR (2) 2x W/ 16d AT 4" O.C.), AND NAILS SHALL BE STAGGERED WHERE NAILS ARE SPACED 2 INCHES ON CENTER.
- PLYWOOD SHEAR PANELS MAY BE APPLIED ON THE EXTERIOR OR 8. INTERIOR FACE OF EXTERIOR STUDS OR EITHER FACE OF INTERIOR STUDS AS REQUIRED FOR CONSTRUCTION EASE. COORDINATE WITH OTHER TRADES AS REQUIRED.
- FRAMING AT ADJOINING PANEL EDGES SHALL BE 3 INCHES NOMINAL OR 9. WIDER(OR (2) 2x W/ 16d AT 4" O.C.), AND NAILS SHALL BE STAGGERED WHERE BOTH THE FOLLOWING CONDITIONS ARE MET: (1) 10D NAILS HAVING PENETRATION INTO FRAMING OF MORE THAN 1 1/2" INCHES AND (2) NAILS ARE SPACED 3 INCHES ON CENTER OR LESS.
- 10. GYPSUM WALLBOARD NAILING APPLIES TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING IF REQUIRED.
- PLYWOOD NAILING APPLIES TO ALL EDGES AND BOUNDARIES. 11. INTERMEDIATE NAILING SHALL BE AT 12" O.C.
- WHERE PANELS ARE APPLIED ON BOTH FACES OF A WALL AND NAIL 12. SPACING IS LESS THAN 6 INCHES O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3 INCH NOMINAL OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.
- 13. ANY SHEARWALL MAYBE REPLACED WITH A SHEARWALL HAVING A HIGHER ALLOWABLE SHEAR.
- AT PLYWOOD SHEAR WALLS, PROVIDE THE SAME THICKNESS PLYWOOD 14. STRIPS FOR THE ENTIRE LENGTH OF WALL, ABOVE AND BELOW OPENINGS, FOR FLUSH FINISH.
- 15. MINIMUM 3"x3"x1/4" WASHERS ARE REQUIRED AT ANCHOR BOLTS FOR SHEARWALLS.

GYPSUM BOARD SHEARWALL NOTES:

- END JOINTS OF ADJACENT COURSES OF GYPSUM BOARD SHALL NOT 16. OCCUR OVER THE SAME STUD.
- 17. WHERE REQUIRED IN TABLE ABOVE, WOOD BLOCKING HAVING THE SAME CROSS-SECTIONAL DIMENSIONS AS THE STUDS SHALL BE PROVIDED AT JOINTS THAT ARE PERPENDICULAR TO THE STUDS.
- STUDS, TOP AND BOTTOM PLATES AND BLOCKING SHALL BE FASTENED IN 18. ACCORDANCE WITH TABLE 2304.9.1 OF THE 2006 IBC.
- FASTENERS SHALL BE SPACED NO LESS THAN 3/8 INCH FROM EDGES AND 19. ENDS OF GYPSUM BOARDS OR SIDES OF STUDS, BLOCKING AND TOP AND BOTTOM PLATES.
- FOUR-FOOT-WIDE PIECES OF GYPSUM SHEATHING SHALL BE APPLIED 20. PARALLEL OR PERPENDICULAR TO STUDS. TWO-FOOT-WIDE PIECES OF GYPSUM SHEATHING SHALL BE APPLIED PERPENDICULAR TO STUDS.

- GENERAL SHEARWALL NOTES:

- 6. SHEARWALL NOMENCLATURE:



SHEET

- OPENINGS, RESPECTIVELY U.N.O.
- SHEARWALL PER DETAIL 17/S1.04.
- INFORMATION.

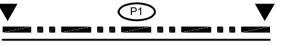
1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

2. SCHEDULED MARK DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.

3. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.

4. FOR CLARITY, ALL FLOOR OPENINGS MAY NOT BE SHOWN ON FLOOR FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.

5. FOR LOCATION OF DETAILS SEE GENERAL STRUCTURAL NOTES.



I. P1, P2, ETC., INDICATES SHEARWALL, SEE SCHEDULE THIS

II. SHEARWALL LENGTH (SINGLE OR DOUBLE SIDED, AS OCCURS). III. HOLDOWN LOCATIONS.

REFER TO TYPICAL SHEARWALL DETAILS 32/S1.05, 39, 40, 41/S1.06 FOR SHEARWALL CONFIGURATION AND FOR SHEARWALLS WITH AND WITHOUT

8. POST FOR HOLDOWNS THAT OCCUR AT CORNERS OF TWO INTERSECTING SHEARWALLS SHALL BE CONNECTED SO AS TO RESIST THE UPLIFT OF BOTH

9. WHERE WALLS ARE OFFSET (I.E., ONE WALL IS SHORTER THAN WALL BELOW), CARRY HOLDOWN TO FOUNDATION. SEE DETAIL 32/S1.05 FOR MORE



PROPERTY

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Illini House 23 E Illini St. Phoenix, AZ 85040



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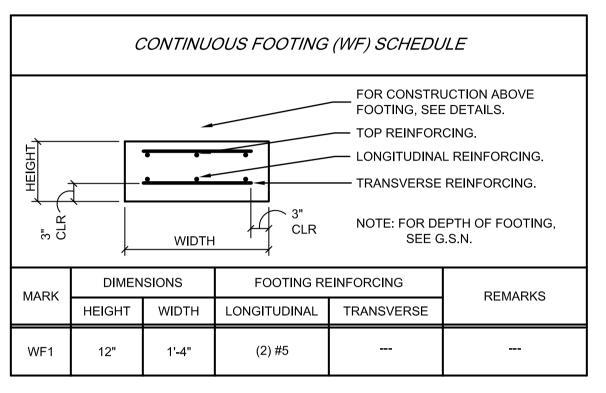
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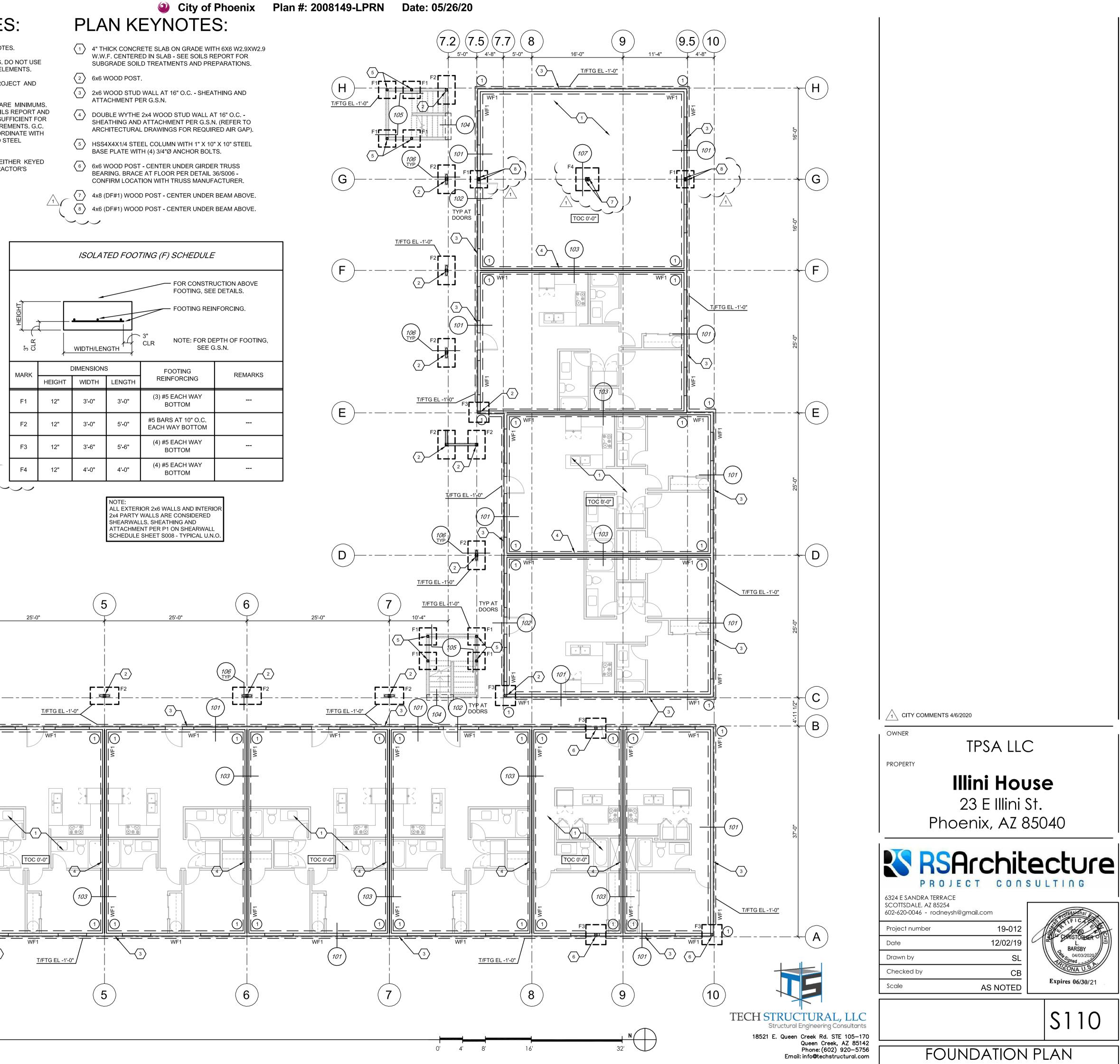
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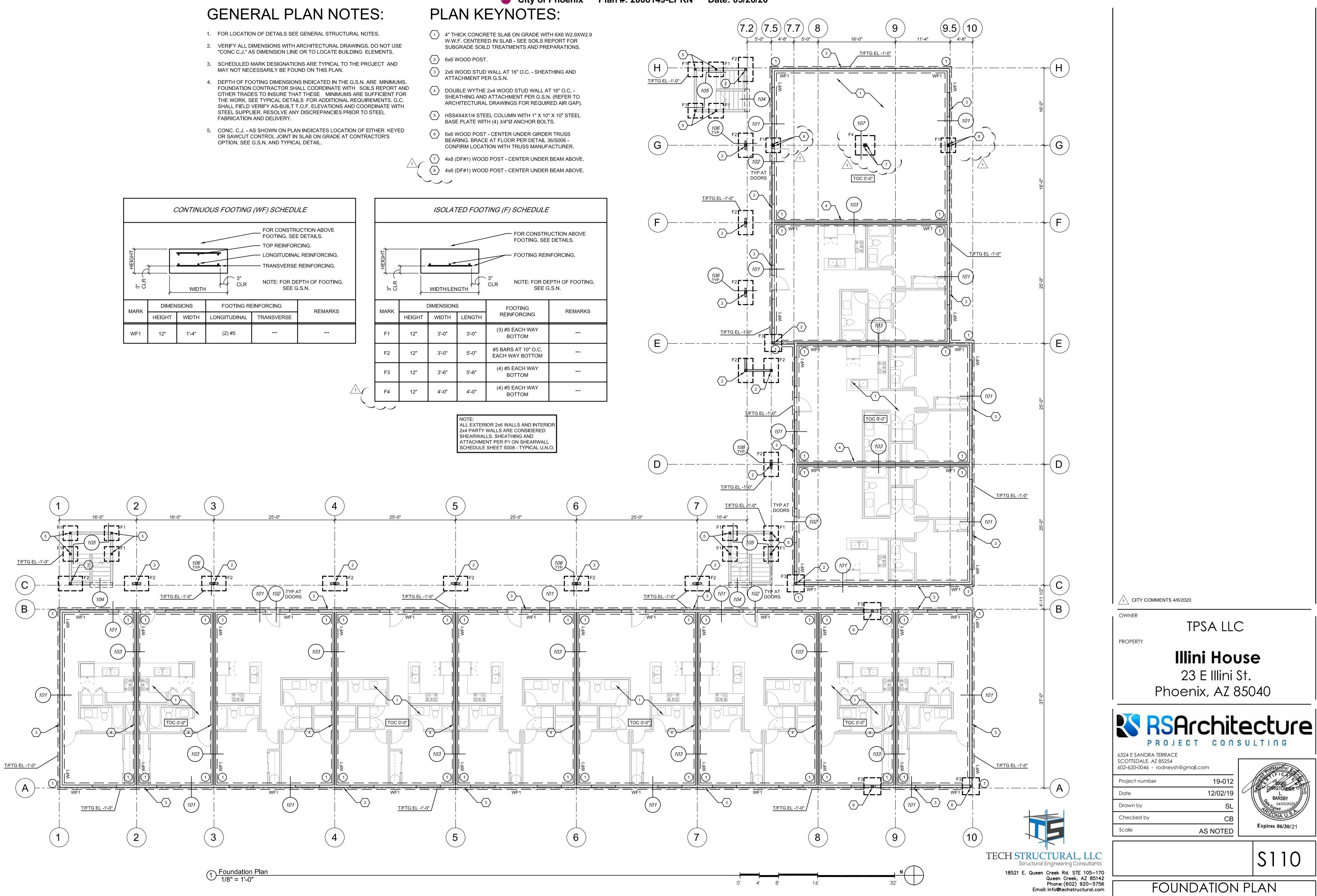
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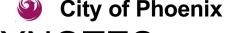


- "CONC C.J." AS DIMENSION LINE OR TO LOCATE BUILDING ELEMENTS.
- THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS. G.C. SHALL FIELD VERIFY AS-BUILT T.O.F. ELEVATIONS AND COORDINATE WITH STEEL SUPPLIER. RESOLVE ANY DISCREPANCIES PRIOR TO STEEL FABRICATION AND DELIVERY.
- OR SAWCUT CONTROL JOINT IN SLAB ON GRADE AT CONTRACTOR'S OPTION, SEE G.S.N. AND TYPICAL DETAIL.









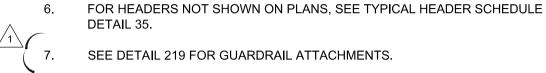
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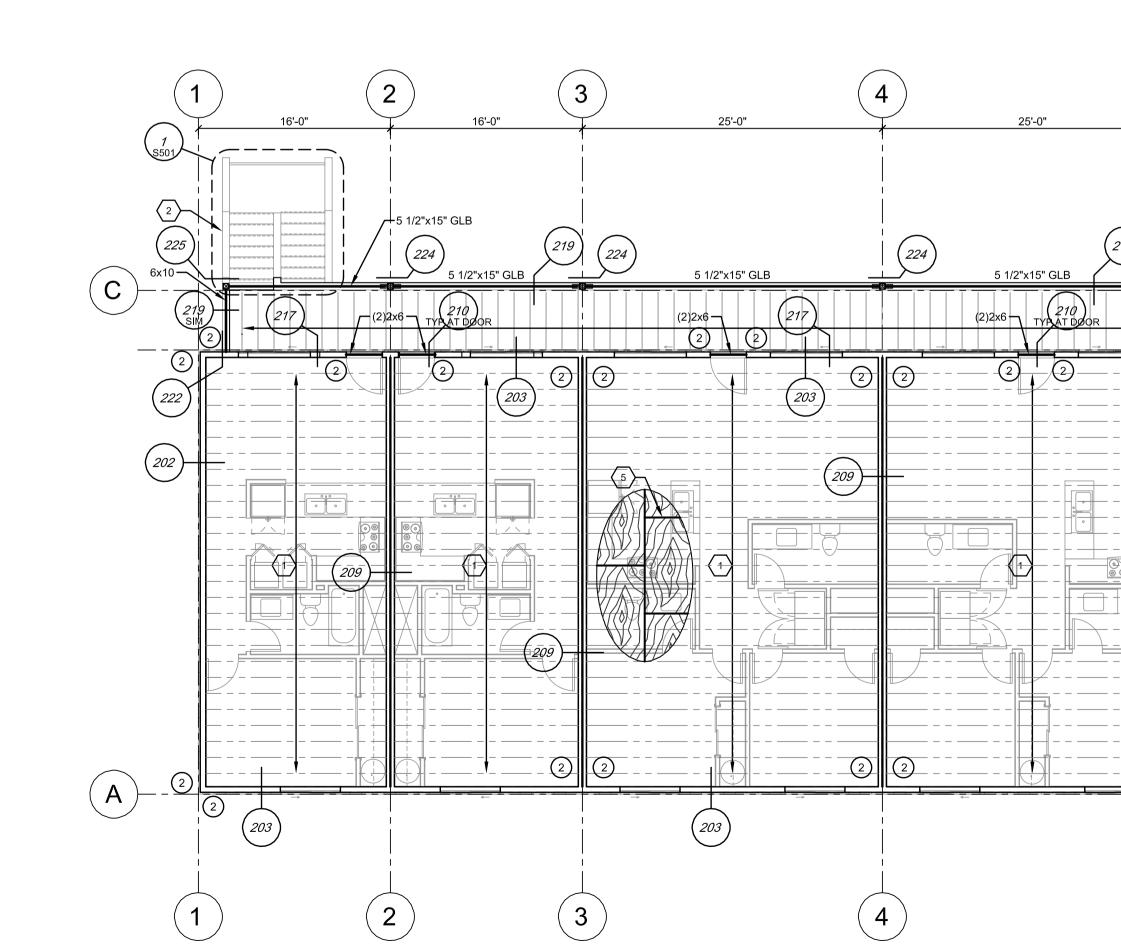
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GENERAL PLAN NOTES:

- 1. FOR LOCATION OF DETAILS SEE GENERAL STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FLOOR 2. ELEVATIONS, WHERE SHOWN, ARE TO BE PROVIDED AND VERIFIED BY THE ARCHITECT.
- 3. SCHEDULED MARK DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.
- 4. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
- FOR CLARITY, ALL FLOOR OPENINGS MAY NOT BE SHOWN ON FLOOR 5. FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.



SEE DETAIL 219 FOR GUARDRAIL ATTACHMENTS.



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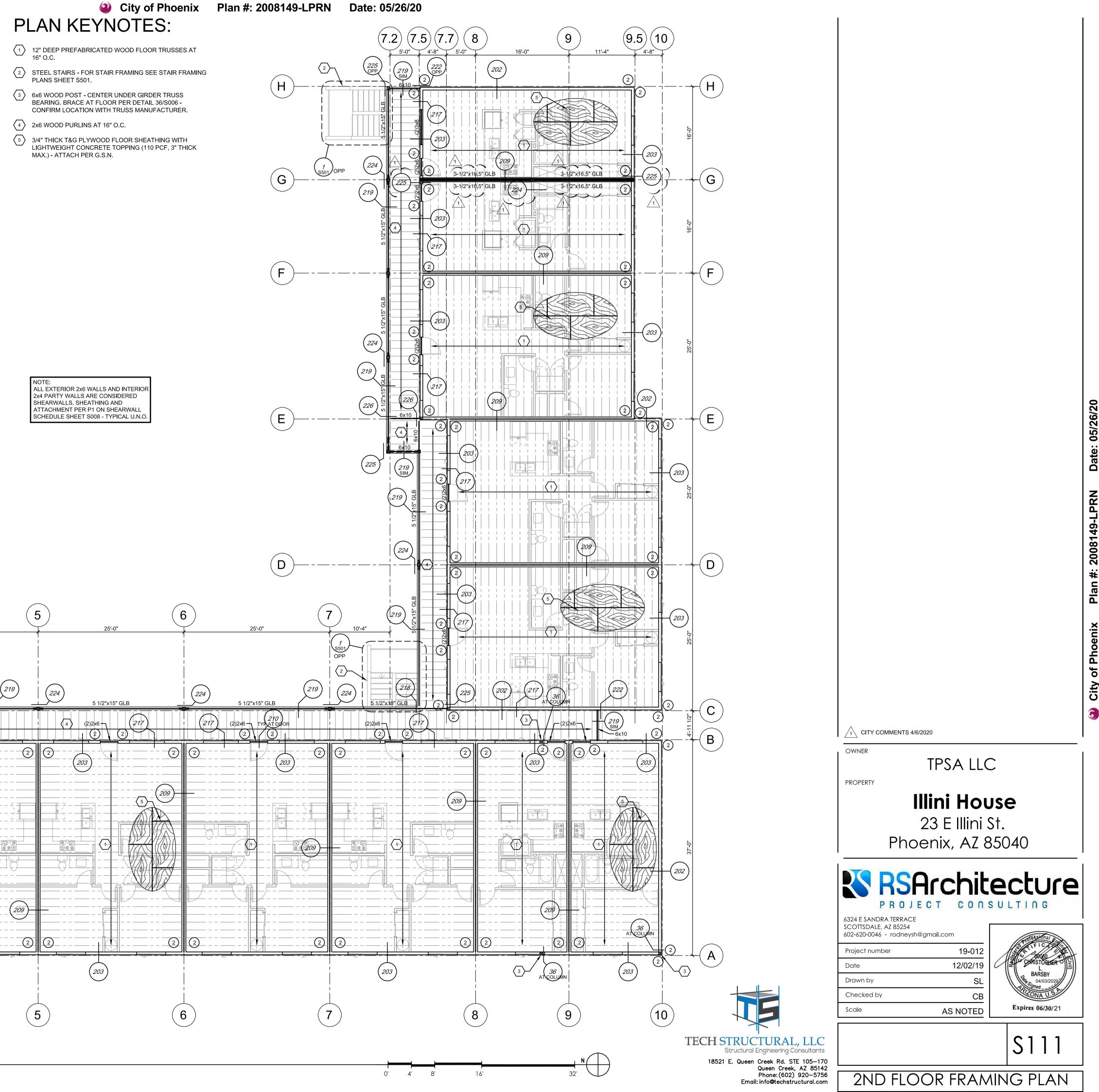
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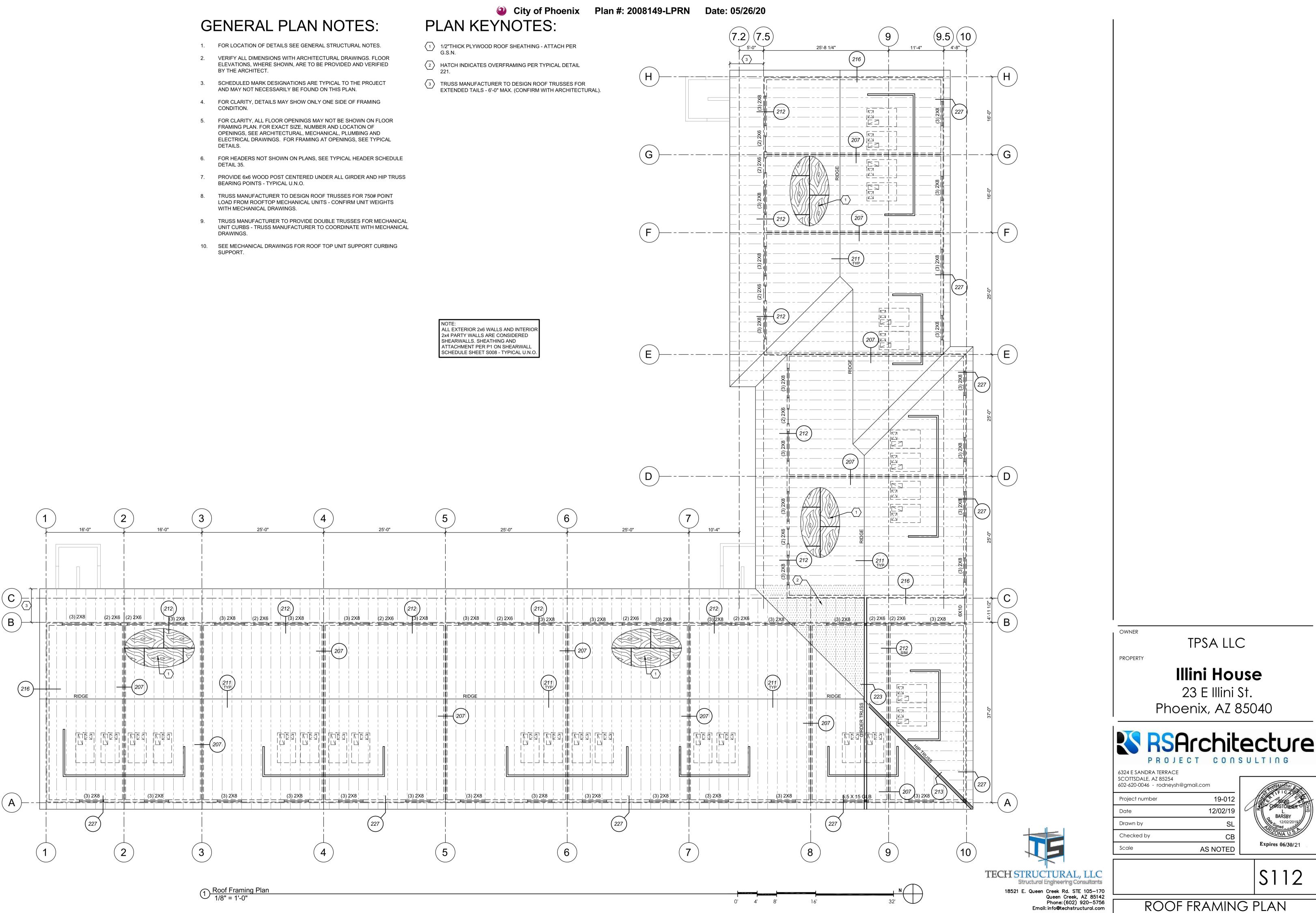
 $1 \frac{2 \text{nd Floor Framing Plan}}{1/8" = 1'-0"}$





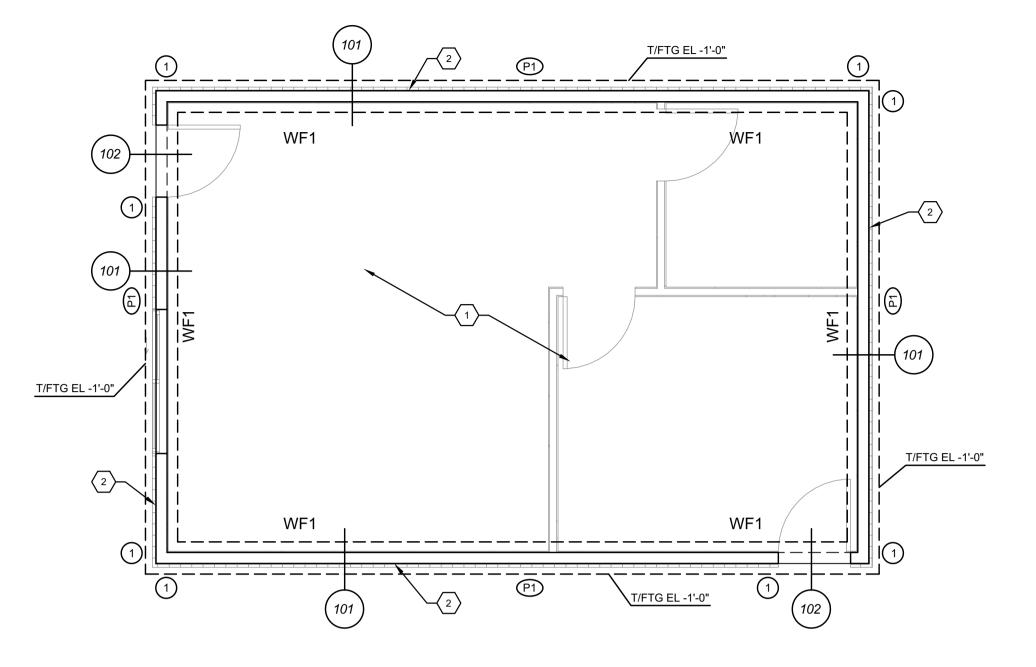
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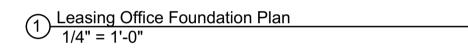
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FLOOR ELEVATIONS, WHERE SHOWN, ARE TO BE PROVIDED AND VERIFIED BY THE ARCHITECT.
- AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.
- CONDITION.
- FOR CLARITY, ALL FLOOR OPENINGS MAY NOT BE SHOWN ON FLOOR FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.
- DETAIL 35.
- BEARING POINTS TYPICAL U.N.O.
- TRUSS MANUFACTURER TO DESIGN ROOF TRUSSES FOR 750# POINT LOAD FROM ROOFTOP MECHANICAL UNITS - CONFIRM UNIT WEIGHTS WITH MECHANICAL DRAWINGS.
- DRAWINGS.
- SUPPORT.

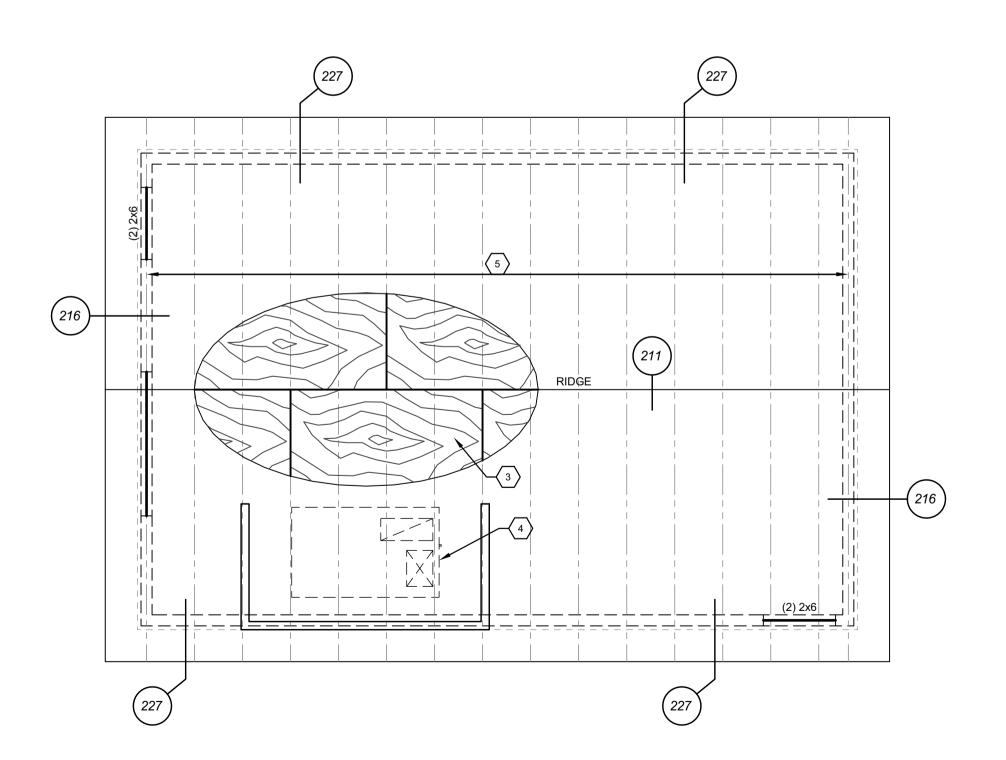


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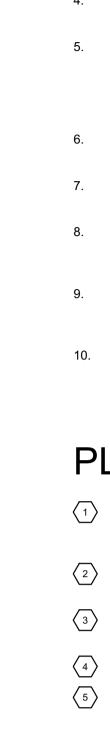
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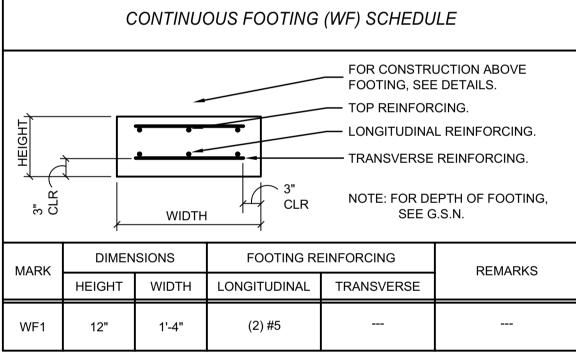












GENERAL PLAN NOTES:

- 1. FOR LOCATION OF DETAILS SEE GENERAL STRUCTURAL NOTES. 2. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. FLOOR ELEVATIONS, WHERE SHOWN, ARE TO BE PROVIDED AND VERIFIED BY THE ARCHITECT.
- 3. SCHEDULED MARK DESIGNATIONS ARE TYPICAL TO THE PROJECT AND MAY NOT NECESSARILY BE FOUND ON THIS PLAN.
- 4. FOR CLARITY, DETAILS MAY SHOW ONLY ONE SIDE OF FRAMING CONDITION.
- 5. FOR CLARITY, ALL FLOOR OPENINGS MAY NOT BE SHOWN ON FLOOR FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.
- 6. FOR HEADERS NOT SHOWN ON PLANS, SEE TYPICAL HEADER SCHEDULE DETAIL 35.
- 7. PROVIDE 6x6 WOOD POST CENTERED UNDER ALL GIRDER AND HIP TRUSS BEARING POINTS - TYPICAL U.N.O.
 - TRUSS MANUFACTURER TO DESIGN ROOF TRUSSES FOR 750# POINT LOAD FROM ROOFTOP MECHANICAL UNITS - CONFIRM UNIT WEIGHTS WITH MECHANICAL DRAWINGS.
 - TRUSS MANUFACTURER TO PROVIDE DOUBLE TRUSSES FOR MECHANICAL UNIT CURBS - TRUSS MANUFACTURER TO COORDINATE WITH MECHANICAL DRAWINGS.
- 10. SEE MECHANICAL DRAWINGS FOR ROOF TOP UNIT SUPPORT CURBING SUPPORT.

PLAN KEYNOTES:

- $\langle 1 \rangle$ 4" THICK CONCRETE SLAB ON GRADE WITH 6X6 W2.9XW2.9 W.W.F. CENTERED IN SLAB - SEE SOILS REPORT FOR SUBGRADE SOILD TREATMENTS AND PREPARATIONS.
- 2x6 WOOD STUD WALL AT 16" O.C. SHEATHING AND ATTACHMENT PER G.S.N.
- (3) 1/2"THICK PLYWOOD ROOF SHEATHING ATTACH PER G.S.N.
- 4 LINE OF FUTURE MECHANICAL UNIT.
- $\overline{(5)}$ PREFABRICATED WOOD ROOF TRUSSES AT 24" O.C.



TPSA LLC

OWNER

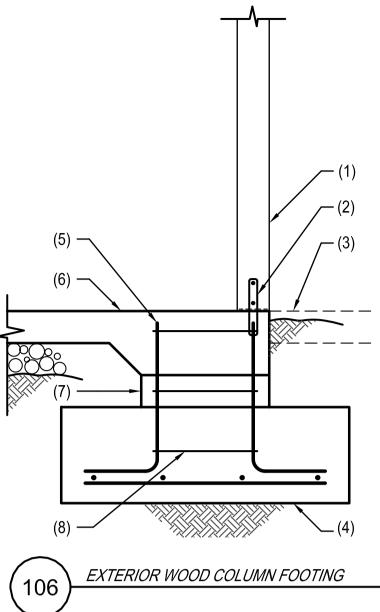
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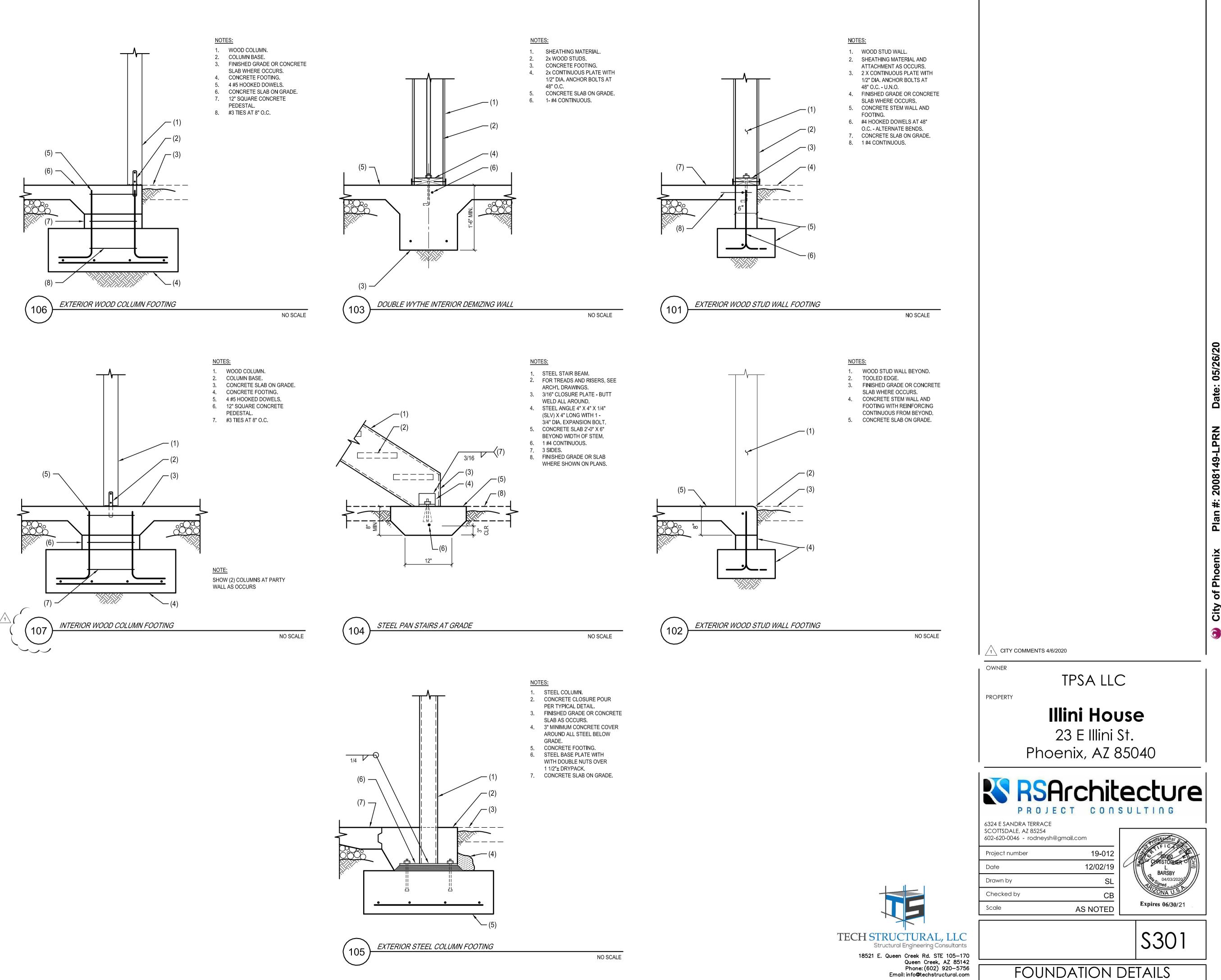
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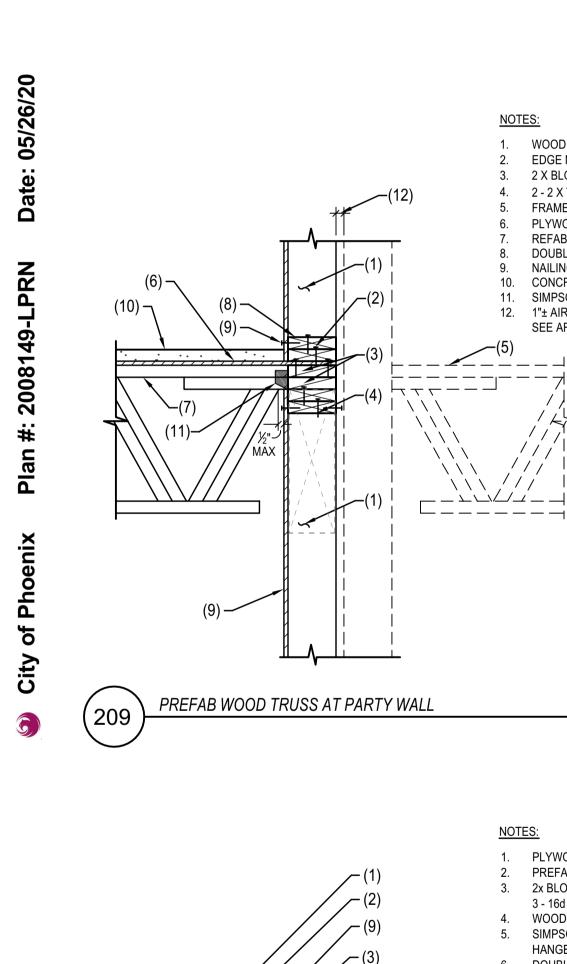
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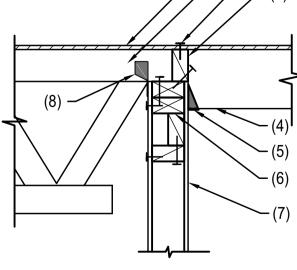
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 $\land \land \land$ $\setminus \setminus \setminus$ EDGE NAILING.

4. 2 - 2 X TOP PLATE WITH

PLYWOOD SHEATHING.

REFAB WOOD TRUSS.

11. SIMPSON H3 AT EACH JOIST.

SEE ARCHITECTURAL.

12. 1"± AIRGAP BETWEEN PARTY WALL -

10. CONCRETE TOPPING.

3. 2 X BLOCKING WITH 3 - 16d PER BLOCK.

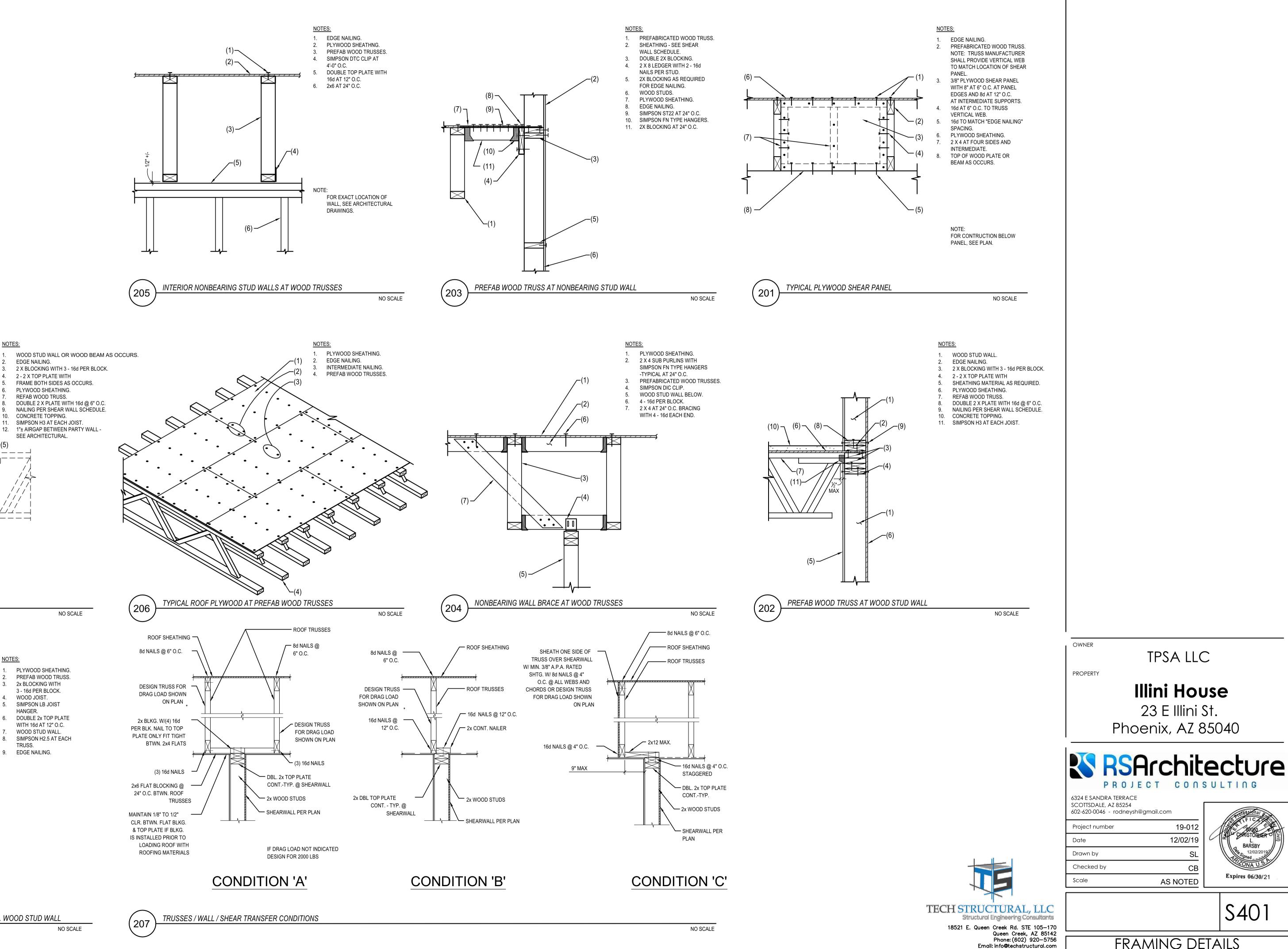
FRAME BOTH SIDES AS OCCURS.

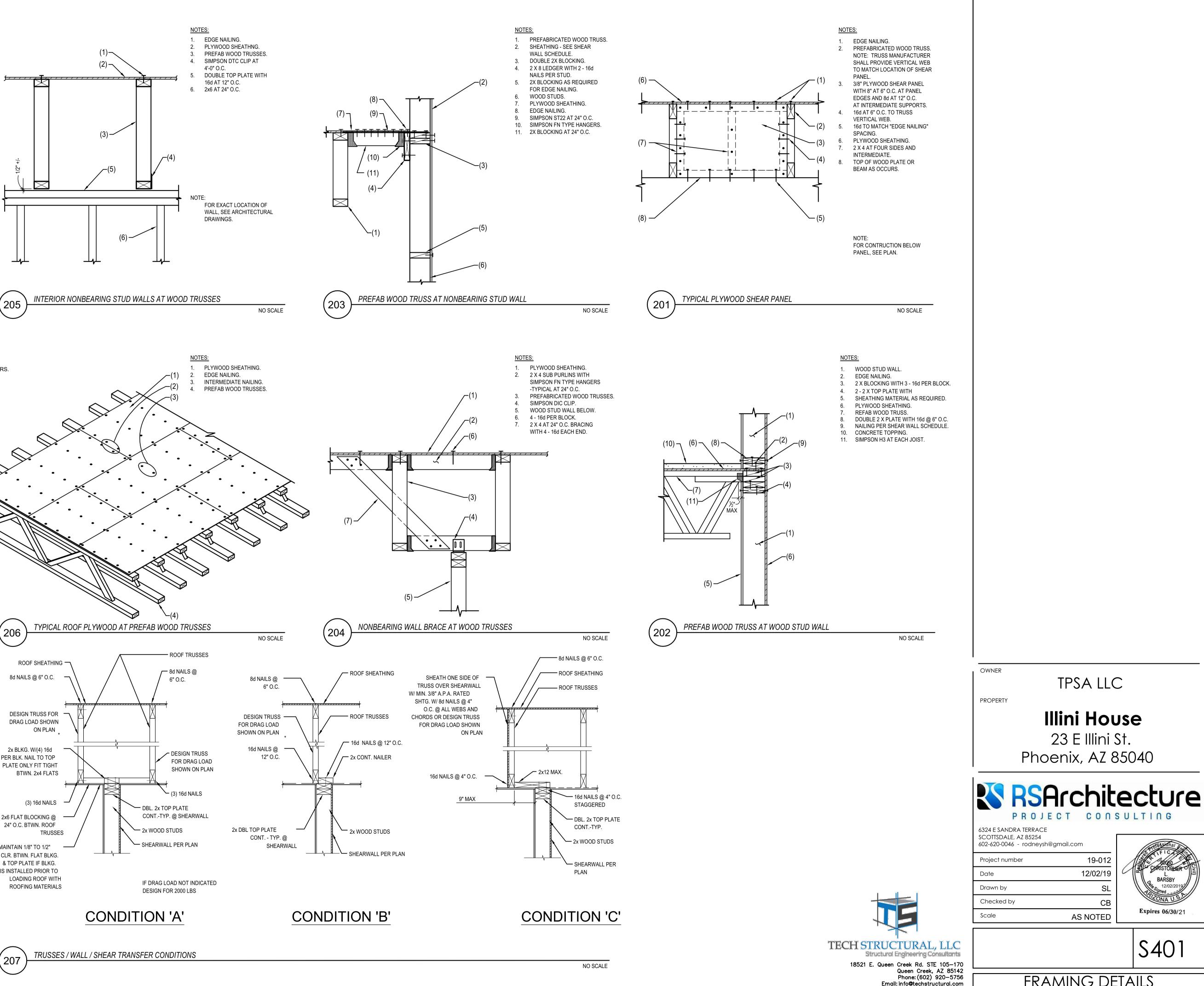
DOUBLE 2 X PLATE WITH 16d @ 6" O.C.

NAILING PER SHEAR WALL SCHEDULE.

NO SCALE

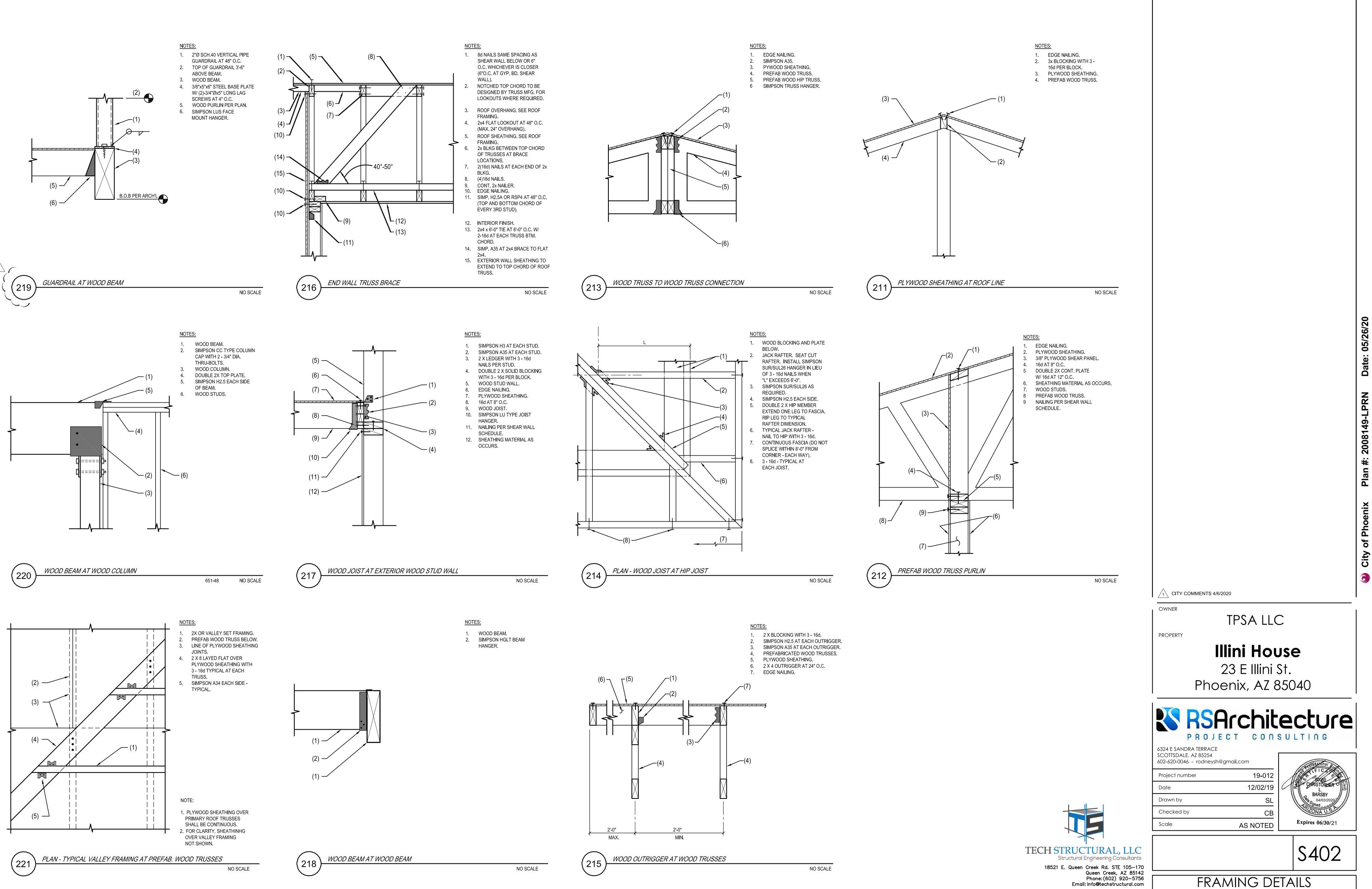
- 1. PLYWOOD SHEATHING PREFAB WOOD TRUSS 2x BLOCKING WITH
- 3 16d PER BLOCK. WOOD JOIST.
- SIMPSON LB JOIST
- HANGER.
- DOUBLE 2x TOP PLATE WITH 16d AT 12" O.C.
- WOOD STUD WALL.
- SIMPSON H2.5 AT EACH
- TRUSS. 9. EDGE NAILING.





NO SCALE

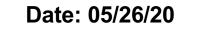
FRAMING DETAILS



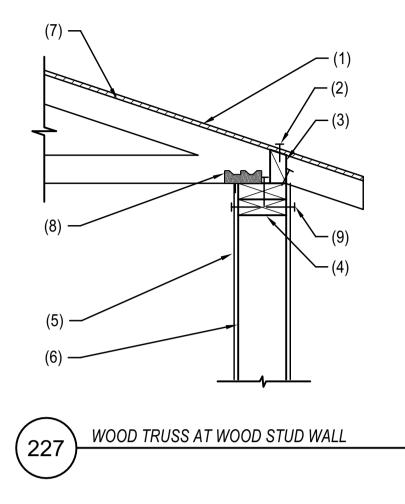
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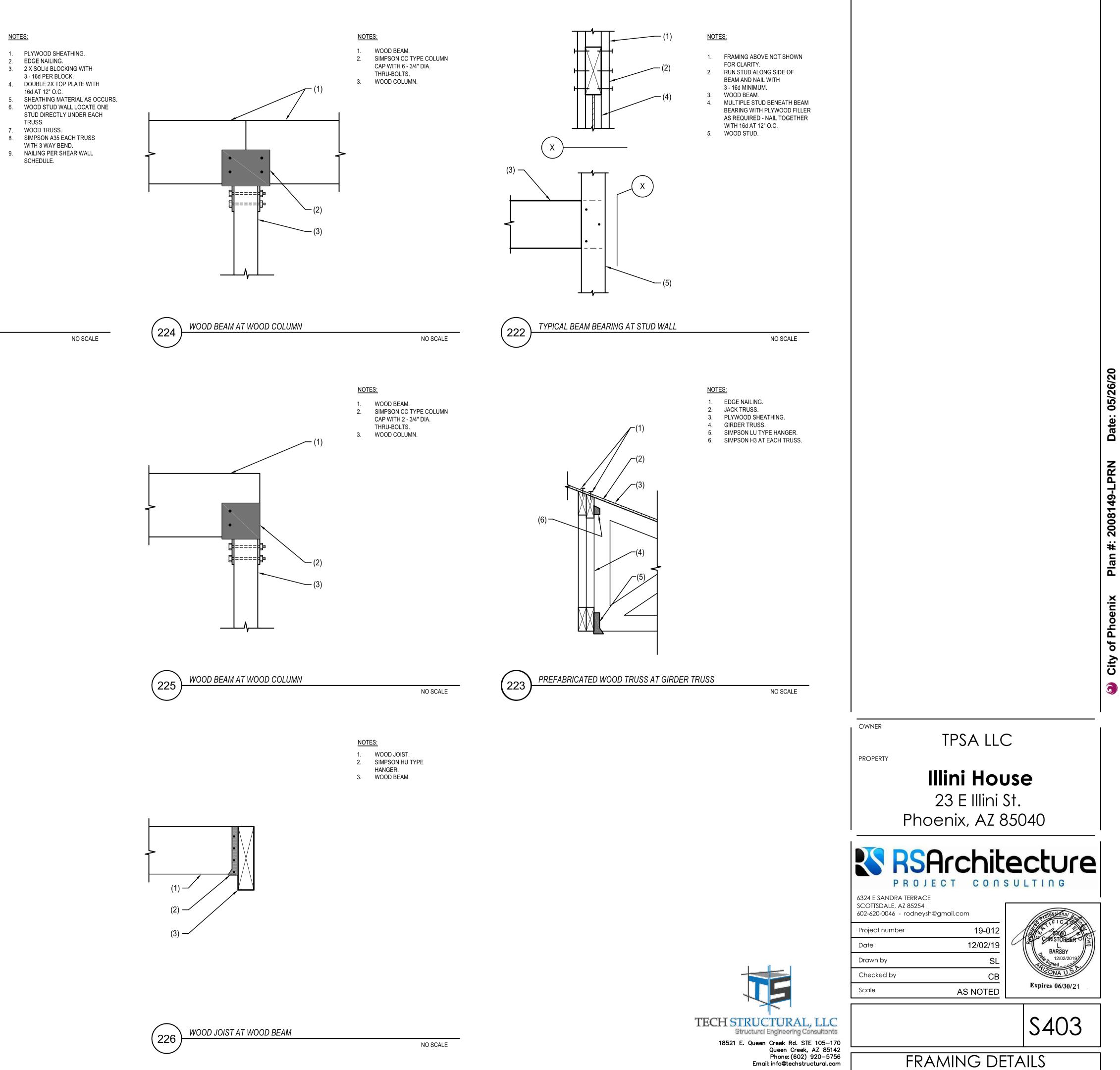
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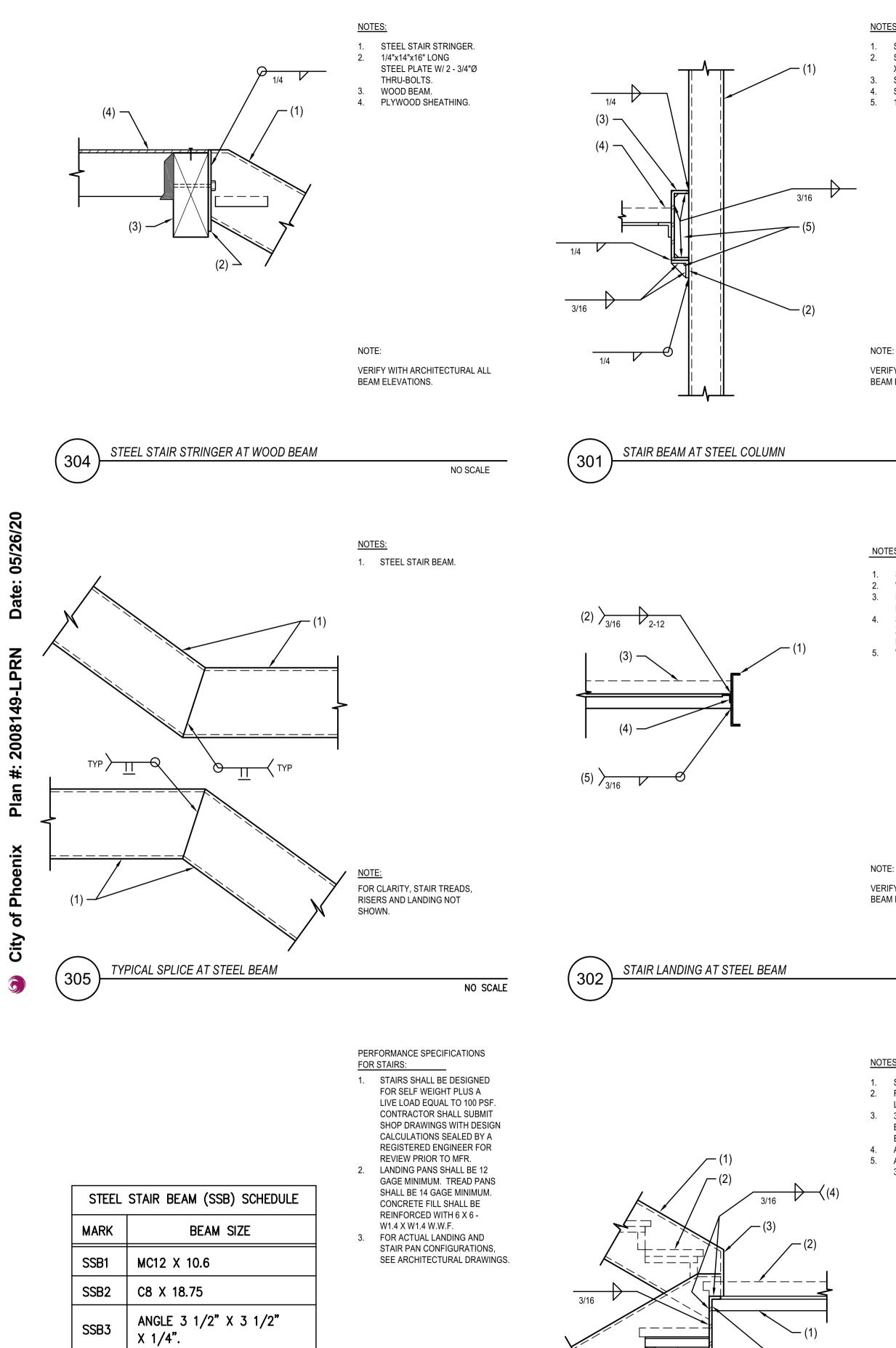
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STEEL BEAM CONNECTION AT LANDING (303)

NOTES:

- STEEL COLUMN.
 STEEL ANGLE 3" X 3" X 1/4"

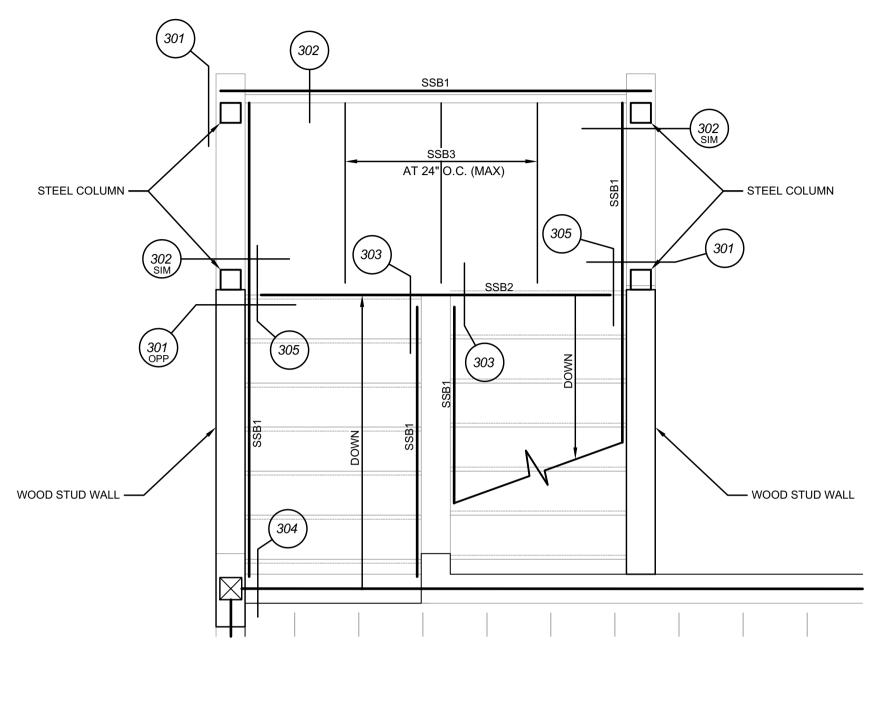
- STAIR BEAM.
 STAIR LANDING.
 1/4" STEEL STIFFENER.

NOTE: VERIFY WITH ARCHITECTURAL ALL BEAM ELEVATIONS.

NO SCALE

NOTES:

- STEEL STAIR BEAM.
 WELD ANGLE TO BEAM.
 FOR LANDING, SEE ARCH'L
- DRAWINGS.
- 4. STEEL ANGLE 1 1/4" X 1 1/4" X 3/16" TYPICAL BETWEEN
- BEAMS. 5. WELD BEAM TO BEAM.



Steel Stair Framing Plan					
1/2" = 1'-0"		11		41	
	0.	Ľ	2	4	

VERIFY WITH ARCHITECTURAL ALL BEAM ELEVATIONS.

NO SCALE

NOTES:

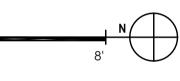
- 1. STEEL STAIR BEAM. 2. FOR TREADS, RISERS AND
- LANDING, SEE ARCH'L.
- 3. 3/16" CLOSURE PLATES BETWEEN BEAMS AND AT
- EXPOSED ENDS.
- AT UP BEAM.
 ANGLE 1 1/4" X 1 1/4" X 3/16" TYP.

NOTE:

3/16

VERIFY WITH ARCHITECTURAL ALL BEAM ELEVATIONS.

NO SCALE





Email: info@techstructural.com

