

STRUCTURAL ABBREVIATIONS			
ABBREV.	DEFINITION	ABBREV.	DEFINITION
A.B.	anchor bolts	HBF	horizontal outer face
ABV	above	HK	hook
ADGNL	additional	HR	horizontal
AFF	above finished floor	IF	inner face
ALT	alternate	INT	interior
ARCH	architectural	IT	joint
B. BOT	bottom	K	kips (1000 lbs)
B/xxx	bottom of xxx	L, LEN	length
BAL	balance	LAT	lateral
BB	bond beam	LBS	pounds
BCX	bottom chord extension	LE	left end
BL	flush ledge	LH	long leg horizontal
BLDG	building	LLO	long leg outstanding
BLW	below	LJV	long leg vertical
BM	beam	LJV	long leg vertical
BRG	bearing	LONG	longitudinal
BRK	break	MAS	masonry
BTWN	between	MECH	mechanical
CLR	clear, control joint	MFR	manufacturer
CMU	concrete masonry unit	MIN	minimum
COL	column	MTL	metal
CONC	concrete	NOM	nominal
CONST	construction	OC, O/C	on center
CONT	continuous	OF	outer face, opp. face
CTR	center	OP	opposite hand
DBA	deformed bar anchor	OPNG	opening
DET DTL	detailed	PRCST	precast
DM	dimension	PL	plate
DWGS	drawings	REF	reference
DWL	dowel	REFR	reinforcement
EA	each	REQD	required
EE	each end	RET	retaining
EFF	effective	SOG	slab on grade
EJ	expansion joint	SP	slip critical
EL ELEV	elevation	SCHED	schedule
EOC	edge of concrete	SECT	section
EOE	edge of slab	SL	slab
EOH	edge of masonry	SPA	spacing
EOS	edge of deck	STNFR	stiffener
EW	each way	STL	steel
EXIST	existing	SUPPL	supplier
EXP	expansion	Tmax	top of xxx
EXT	exterior, extension	TCX	top chord extension
FL	floor	TRK	track, thickness
FL FLR	floor	TRAN	transverse
FOB	face of brick	TYP	typical
FOM	face of masonry	UNO	unless noted otherwise
FOS	face of stud	VERT	vertical
FP	full penetration	W	width in field
FTG	foot, feet	WVF	welded wire fabric
FT	footing		
GB	grade beam		
GEN	general		
HEF	horizontal each face		
HIF	horizontal inner face		

- 1.0 GENERAL NOTES:
- THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND THE SPECIFICATIONS. THE REQUIREMENTS OF THE SPECIFICATIONS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES AND OTHER ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
 - THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYS AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.
 - ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE SUPPLIER'S INSTRUCTIONS AND REQUIREMENTS.
 - LOADING APPLIED TO THE STRUCTURE DURING THE PROCESS OF CONSTRUCTION IS THE CONTRACTORS RESPONSIBILITY AND SHALL NOT EXCEED THE SAFE LOAD... CARRYING CAPACITY OF THE STRUCTURAL MEMBERS. THE LIVE LOADINGS USED IN THE DESIGN OF THIS STRUCTURE ARE INDICATED IN THE "DESIGN CRITERIA NOTES". DO NOT APPLY ANY CONSTRUCTION LOADS UNTIL STRUCTURAL FRAMING IS PROPERLY CONNECTED TOGETHER AND UNTIL ALL TEMPORARY BRACKING IS IN PLACE.
 - ALL ASTM AND OTHER REFERENCES ARE PER THE LATEST EDITIONS OF THESE STANDARDS, UNLESS OTHERWISE NOTED.
 - SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL, AND SHALL BEAR THE CONTRACTORS APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH OTHER TRADES. IF SHOP DRAWINGS AND OTHER SUBMITTALS DO NOT BEAR THE CONTRACTORS APPROVAL STAMP, THEY WILL NOT BE REVIEWED AND WILL BE RETURNED, NO EXCEPTIONS. THE ENGINEERS REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEERS REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK, AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC. ALL SUBMITTALS INCLUDING CONCRETE MIX DESIGNS, CMU SPECS, ETC. MUST BE DATED AND NO MORE THAN ONE (1) YEAR OLD.
 - SUBMIT SHOP DRAWINGS IN THE FORM OF THREE PRINTS IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. CONTRACTOR SHALL PROVIDE IN HIS SCHEDULE FOR SHOP DRAWING REVIEW AND RETURN TIME, A MINIMUM OF FIFTEEN (15) WORKING DAYS IN THE STRUCTURAL ENGINEERS OFFICE AS A MINIMUM. SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
 - CONCRETE MIX DESIGNS,
 - REINFORCING STEEL SHOP DRAWINGS INCLUDING ELEVATED SLABS,
 - PRE-MANUFACTURED WOOD SYSTEM TRUSSES SHOP DRAWINGS WITH CALCULATIONS.OTHER SUBMITTALS MAY BE REQUIRED PER THE "SCHEDULE OF SPECIAL INSPECTIONS" OR THE SEPARATE NOTES CONTAINED HEREIN.
 - UNLESS OTHERWISE INDICATED, ALL ITEMS NOTED TO BE DEMOLISHED SHALL BECOME THE CONTRACTORS PROPERTY AND BE REMOVED FROM THE SITE.
 - CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE OR LOSS.
 - FIREPROOFING OF STRUCTURAL ELEMENTS IS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIRE RATING REQUIREMENTS, MATERIALS AND METHODS.
 - THE CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER, CLEARLY AND EXPLICITLY IN WRITING, OF ANY DEVIATION OR INFRACTION OF REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT RELIEVED OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS BY VIRTUE OF THE STRUCTURAL ENGINEERS REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS CLEARLY AND EXPLICITLY INFORMED THE STRUCTURAL ENGINEER IN WRITING OF ANY DEVIATIONS OR SUBSTITUTIONS AT TIME OF SUBMISSION, AND THE STRUCTURAL ENGINEER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATIONS OR SUBSTITUTIONS.
 - ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER. CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE AFFECTED WORK MAY PROCEED.
 - IF THE CONTRACTOR CANNOT CONSTRUCT ANY PORTION OF THE WORK IDENTIFIED IN THE DRAWINGS IN ACCORDANCE WITH THESE DRAWINGS AND SPECIFICATIONS THEN THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK. WORK THAT DOES NOT COMPLY WITH THE DRAWINGS MAY REQUIRE REMOVAL, TESTING, OR ENGINEERING EVALUATION AT THE CONTRACTORS EXPENSE.
 - CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. STRUCTURAL ENGINEER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS. INCONSISTENCIES ON THE STRUCTURAL DRAWINGS OR BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER CONTRACT, SHOP, FABRICATION, OR OTHER DRAWINGS OR INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.

2.0 DESIGN CRITERIA NOTES:

1. THE PRIMARY DESIGN STANDARDS AND/OR CRITERIA INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

GENERAL:	BLDG CODE (N.C.B.C.2018, AS AMENDED, ASCE 7-10)
CONCRETE:	ACI 318
MASONRY:	ACI 530
STRUCTURAL STEEL:	AISC 341
STEEL JOISTS / GIRDERS:	SJI
METAL DECK:	SDI
COLD - FORMED METAL:	NAS

2. DESIGN GRAVITY SUPER IMPOSED DEAD LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS (SELF WEIGHT OF STRUCTURE IS NOT INCLUDED):

ROOF:	20 PSF MAX.	10 PSF MIN.
FLOORS - TYPICAL:	15 PSF	
PARTITION ALLOWANCE:	0 PSF	

3. DESIGN GRAVITY LIVE LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:

SLAB ON GRADE.....	200 PSF
ROOF, TYPICAL.....	20 PSF MIN.
STAIRS.....	100 PSF
APARTMENT/CORRIDOR.....	40 PSF
BALCONY.....	60 PSF

FLOOR LIVE LOAD REDUCTION PER N.C.B.C. HAS BEEN UTILIZED. ROOF LIVE LOAD REDUCTION PER N.C.B.C HAS BEEN UTILIZED.

4. DESIGN LATERAL LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS: WIND LOADS PER ASCE7-10:

BASIC WIND SPEED (3 SECOND GUST) 115 MPH

RISK CATEGORY II

WIND EXPOSURE B

HEIGHT "H" 50.3ft

INTERNAL PRESSURE COEFFICIENT "GcP" +/- 0.18

COMPONENTS & CLADDING PRESSURES (PSF):

TRIBUTARY AREA (FT²)				
	ZONE	A ≤ 10	A = 50	A=100
WALLS	ZONE 4 (-)	-29.9	-27.0	-25.8
	ZONE 5 (-)	-36.9	-31.2	-28.7
	ZONE 4&5(+)	+27.6	+24.7	+23.4
	ZONE 1 (-)	-34.6	-31.3	-29.9
ROOF	ZONE 2 (+)	-41.0	-35.1	-32.2
	ZONE 3 (-)	-72.0	-57.3	-50.9
	ALL ZONES (+)	+16.0	+16.0	+16.0

NOTES:
* CORNER & EDGE ZONES SHALL EXTEND 10'-0" FROM BUILDING EDGES.
** - INDICATES POSITIVE AND + - NEGATIVE PRESSURE (SUCTION).

NET ROOF SUCTION 12 PSF

WING MAIN WIND FORCE RESISTING SYSTEM	NORTHSOUTH LIGHT FRAME SHEAR WALLS 148 KIPS	EASTWEST LIGHT FRAME SHEAR WALLS 55 KIPS
WIND BASE SHEAR "Go"		
SEISMIC LOADS PER N.C.B.C. 2018:		
SITE CLASS		D (ASSUMED)
SHORT PERIOD DESIGN SPECTRAL RESPONSE "S _{ss} "		0.308g
SECOND PERIOD DESIGN SPECTRAL RESPONSE "S _{ss1} "		0.169g
SEISMIC USE GROUP		II
IMPORTANCE FACTOR "I _p "		1.0
SEISMIC DESIGN CATEGORY		C
WING SEISMIC FORCE RESISTING SYSTEM	NORTHSOUTH LIGHT FRAME SHEAR WALLS 68 KIPS	EASTWEST LIGHT FRAME SHEAR WALLS 68 KIPS
SEISMIC BASE SHEAR "Go"		
DESIGN SNOW LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS: DRIFTING SNOW LOADS PER ASCE 7-10: NONE WHERE "Pg" IS LESS THAN 10 PSF		
50 YEAR GROUND SNOW LOAD "Pg"	15 PSF	
EXPOSURE FACTOR "Ce"	1.0	
THERMAL FACTOR "Ct"	1.0	
IMPORTANCE CATEGORY CLASSIFICATION	II	
IMPORTANCE FACTOR "Is"	1.0	
NET FLAT ROOF SNOW LOAD "P _f "	10.5 PSF (ASCE 7-05, EC. 7-1)	
	10.5 PSF	
THIS STRUCTURE HAS BEEN DESIGNED WITH "SAFETY FACTORS" IN ACCORDANCE WITH GENERALLY ACCEPTED PRINCIPLES OF STRUCTURAL ENGINEERING. THE FUNDAMENTAL NATURE OF THE "SAFETY FACTOR" IS TO COMPENSATE FOR UNCERTAINTIES IN THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL BUILDING COMPONENTS. IT IS INTENDED THAT "SAFETY FACTORS" BE USED SO THAT THE LOAD CARRYING CAPACITY OF THE STRUCTURE DOES NOT FALL BELOW THE DESIGN LOAD AND THAT THE BUILDING WILL PERFORM UNDER DESIGN LOAD WITHOUT DISTRESS. WHILE THE USE OF "SAFETY FACTORS" IMPLIES SOME EXCESS CAPACITY BEYOND DESIGN LOAD, SUCH EXCESS CAPACITY CANNOT BE ADEQUATELY PREDICTED AND SHALL NOT BE RELIED UPON.		
BUILDING SHALL NOT BE USED AS AN EMERGENCY SHELTER.		

- 3.0 DEFERRED SUBMITTAL NOTES:
- SHOP DRAWINGS AND OTHER ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
 - IN NO CASE SHALL REPRODUCTION OF THE CONTRACT DRAWINGS BE USED AS SHOP DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD. CONTRACTOR SHALL PROVIDE IN HIS SCHEDULE FOR SHOP DRAWING REVIEW AND RETURN TIME, A MINIMUM OF FIFTEEN (15) WORKING DAYS IN THE STRUCTURAL ENGINEERS OFFICE.
 - ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR BEFORE SUBMITTAL, AND SHALL BEAR THE CONTRACTORS APPROVAL STAMP ACCEPTING RESPONSIBILITY FOR DIMENSIONS, QUANTITIES AND COORDINATION WITH OTHER TRADES. IF SHOP DRAWINGS AND OTHER SUBMITTALS DO NOT BEAR THE CONTRACTORS APPROVAL STAMP, THEY WILL NOT BE REVIEWED AND WILL BE RETURNED, NO EXCEPTIONS.
 - ALL SHOP DRAWINGS AND CALCULATIONS FOR DELEGATED DESIGN REQUIRING AN ENGINEER'S SEAL SHALL BE SEALED PRIOR TO SUBMISSION FOR REVIEW. IF SHOP DRAWINGS AND OTHER SUBMITTALS DO NOT BEAR THE DELEGATED ENGINEERS SEAL, THEY WILL NOT BE REVIEWED AND WILL BE RETURNED, NO EXCEPTIONS.
 - WHERE NOTED SEALED DRAWINGS OR CALCULATIONS ARE REQUIRED TO BE SEALED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE PROJECT STATE, NOTE THAT PLACEMENT OR LAYOUT PLANS FOR TRUSSES AND JOISTS DO NOT REQUIRE ENGINEERS SEAL.
 - THE ENGINEER OR RECORDS (EOR) REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE EOR REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, DIMENSIONS, ETC. ALL SUBMITTALS INCLUDING CONCRETE MIX DESIGNS, CMU SPECS, ETC. MUST BE DATED AND NO MORE THAN ONE (1) YEAR OLD.
 - AS A MINIMUM, SUBMIT THE FOLLOWING ITEMS FOR REVIEW:
 - CONCRETE MIX DESIGNS,
 - REINFORCING STEEL SHOP DRAWINGS
 - PRE-MANUFACTURED WOOD SYSTEM TRUSS SHOP DRAWINGS WITH CALCULATIONS.OTHER SUBMITTALS MAY BE REQUIRED PER THE "SCHEDULE OF SPECIAL INSPECTIONS" OR THE SEPARATE NOTES CONTAINED HEREIN.
 - ANY SHOP DRAWINGS WITH LANGUAGE LIMITING REVIEWER RESPONSES SUCH AS BUT NOT LIMITED TO THE FOLLOWING WILL NOT BE REVIEWED AND WILL BE RETURNED, NO EXCEPTIONS.
 - RESPONSES SUCH AS "GO TO VERIFY" OR "ARCH TO VERIFY" ARE NOT ACCEPTABLE ANSWERS"
 - "CLOUDS MARKED IN MANNER WILL BE CONSIDERED NOT ADDRESSED"
 - SHOP DRAWINGS SHALL NOT BE USED AS RFIs AND ARE TO BE CONSIDERED COMPLETELY SEPARATE SUBMITTALS.

- 4.0 SITE PREPARATION NOTES:
- WITHIN AN AREA A MINIMUM OF 5 FEET BEYOND THE BUILDING LIMITS, EXCAVATE A MINIMUM OF 3" OF EXISTING SOIL. REMOVE ALL ORGANICS, PAVEMENT, ROOTS, DEBRIS AND OTHERWISE UNSUITABLE MATERIAL.
 - THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED BY PROBING OR TESTING TO CHECK FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL. EXCAVATE UNSUITABLE SOIL AS DIRECTED BY THE GEOTECHNICAL ENGINEER / TESTING AGENCY.
 - PROOF-ROLL THE SURFACE OF THE EXPOSED SUBGRADE WITH A LOADED TANDEM AXLE DUMP TRUCK REMOVE ALL SOILS WHICH PUMP OR DO NOT COMPACT PROPERLY AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
 - FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL. PLACE IN 8 INCH LOOSE LIFTS AND COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D - 698.
 - ALL CONTROLLED FILL MATERIAL SHALL BE A SELECT GRANULAR MATERIAL FREE FROM ALL ORGANICS OR OTHERWISE DELETERIOUS MATERIAL WITH NOT MORE THAN 20% BY WEIGHT PASSING A NO. 200 SIEVE (CLASSIFIED AS SC, SM, SP OR BETTER IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM) AND WITH A PLASTICITY INDEX NOT EXCEEDING 6%.
 - PROVIDE FIELD DENSITY TESTS FOR EACH 3,000 S.F. OF BUILDING AREA FOR EACH LIFT OF CONTROLLED FILL.

- 5.0 FOUNDATION NOTES: (TYP)
- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT BY BLE CORP. DATED 03/31/2025
 - ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS", HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305 COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
 - ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED.
 - SEE "CAST-IN-PLACE CONCRETE NOTES" FOR MINIMUM CONCRETE COVER REQUIREMENTS, AND CONCRETE ELEMENT PROPERTIES.
 - ALL REINFORCING MARKED CONTINUOUS (CONT.) ON THE PLANS AND DETAILS SHALL BE LAPPED LTS AT SPLICES UNLESS OTHERWISE NOTED. SEE EMBEDMENT & LAP SPLICE SCHEDULE.
 - NO UNBALANCED BACKFILLING SHALL BE DONE AGAINST FOUNDATION WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING EITHER BY TEMPORARY BRACING OR BY PERMANENT CONSTRUCTION.
 - PRIOR TO COMMENCING ANY FOUNDATION WORK, THE CONTRACTOR IS SOLEY RESPONSIBLE FOR COORDINATING WORK WITH ANY EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES. STRUCTURAL ENGINEER MUST BE NOTIFIED IF FOOTINGS ARE LOWERED MORE THAN 2 FEET RELATIVE TO THAT WHICH IS SHOWN.
 - UNLESS OTHERWISE NOTED, THE CENTERLINES OF COLUMN FOUNDATIONS SHALL BE LOCATED ON COLUMN CENTERLINES.
 - ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE - DRAINING GRANULAR BACKFILL FULL HEIGHT OF WALL. PROVIDE VERTICAL CONTROL JOINTS NOT TO EXCEED 25 FEET O.C. NOR 8 TIMES THE WALL HEIGHT. MAXIMUM LENGTH OF WALL POURS SHALL NOT EXCEED 50 FEET IN ANY SINGLE POUR.
 - BOTTOM OF EXTERIOR FOUNDATIONS SHALL BEAR AT A MINIMUM DEPTH OF 1'-4" BELOW FINAL GRADE FOR FROST PROTECTION.
 - ALL FOOTINGS HAVE BEEN DESIGNED BASED UPON AN ASSUMED SOIL BEARING PRESSURE OF 2500 PSF. ALL FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM NATURAL SOIL OR COMPACTED FILL. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY PRIOR TO POURING FOUNDATION CONCRETE.
 - TOP OF FOOTING ELEVATION SHALL BE AS SHOWN ON THE FOUNDATION PLAN. THESE ELEVATIONS ARE A MAXIMUM AND SHALL BE LOWERED AS REQUIRED TO OBTAIN THE REQUIRED DESIGN BEARING PRESSURE. STRUCTURAL ENGINEER MUST BE NOTIFIED IF FOOTINGS ARE LOWERED MORE THAN 2 FEET RELATIVE TO THAT WHICH IS SHOWN.
 - WHERE FOOTING EXCAVATIONS MUST REMAIN OPEN OVERNIGHT OR IF RAINFALL BECOMES IMMINENT WHILE BEARING SOILS ARE EXPOSED, A 2" TO 4" THICK MID MAT OF UNREINFORCED LEAN (f_c = 2000psi) CONCRETE SHALL BE PLACED ON THE BEARING SOILS BEFORE PLACEMENT OF THE FOOTING REINFORCING.

- 6.0 SLAB ON GRADE NOTES:
- PROVIDE CONCRETE SLABS OVER A VAPOR BARRIER PER ARCHITECT DRAWINGS AND 4" OF POROUS FILL. CONCRETE SLABS SHALL HAVE A MAXIMUM SLUMP OF 5 INCHES, USING TYPE 1 CEMENT.
 - ALL WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ASTM A-185. LAP ADJOINING PIECES AT LEAST ONE FULL MESH.
 - ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR MATERIAL WITH 100% PASSING A 1-1/2" SIEVE AND NO MORE THAN 5% PASSING A NO. 4 SIEVE. POROUS FILL SHALL BE COMPACTED TO 95% MAX. DRY DENSITY PER ASTM D-698.
 - SLAB JOINTS SHALL BE FILLED WITH APPROVED MATERIAL. THIS SHOULD TAKE PLACE AS LATE AS POSSIBLE, PREFERABLY 4 TO 6 WEEKS AFTER THE SLAB HAS BEEN CAST. PRIOR TO FILLING, REMOVE ALL DEBRIS FROM THE SLAB, JOINTS, THEN FILL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AS FOLLOWS: 8" SLABS - FILL WITH EPOXY RESIN OTHER SLABS - FILL WITH FILL MOLDED OR ELASTOMERIC SEALANT
 - UNLESS OTHERWISE PROVIDED, ALL SLAB REINFORCEMENT SHALL BE SECURED INTO POSITION WITH PLASTIC TYPED OR STAINLESS STEEL BAR SUPPORTS, BRICK OR OTHER MASONRY ARE NOT PERMITTED FOR USE AS SUPPORTS.
 - WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS. PROVIDE 4" WALKS REINFORCED WITH 6X6 - W/ 4X4 W/ WVF UNLESS OTHERWISE NOTED.
 - SLABS TO BE PERMANENTLY EXPOSED TO WEATHER SHALL BE AIR ENTRAINED TO 5% (+/- 1%) WITH AN ADMIXTURE THAT CONFORMS TO ASTM C-620.
 - SLABS NOT PERMANENTLY EXPOSED TO WEATHER SHALL NOT BE AIR ENTRAINED AND ENTRAPPED AIR SHALL BE LIMITED TO 3%.
 - ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS", HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305 COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
 - IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, PLACE CONCRETE SLABS IN AN ALTERNATING LANE (OR CHECKERBOARD) PATTERN. THE MAXIMUM LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS POUR IS RECOMMENDED TO BE LESS THAN 100 FEET. THE MAXIMUM SPACING OF CONTROL JOINTS SHALL BE 3 TIMES THE SLAB THICKNESS IN FEET. (EXAMPLE 4" SLAB X 3 = 12'-0" CJ SPACING TYPICAL).
 - THE USE OF POLYPROPYLENE FIBERS (IN LIEU OF WELDED WIRE FABRIC) IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER.
 - SEE THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DEPRESSED SLAB AREAS AND DRAINS. SLOPE SLAB TO DRAINS WHERE SHOWN.
 - THE FINISH TOLERANCE OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 301, TYPE A.

- 7.0 POST-INSTALLED ANCHORS:
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD (E.O.R.) PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPI). SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES MINIMUM OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS. PROVIDE SPECIAL INSPECTIONS AS REQUIRED BY THE ANCHORS EVALUATION REPORT. THE CONTRACTOR SHALL OBTAIN CONTRACT MANUFACTURERS REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5999.
 - FOR ANCHORING INTO CRACKED AND UN-CRACKED CONCRETE:
 - MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND / OR ICCES AC109 FOR CRACKED AND UN-CRACKED CONCRETE. PRE-APPROVED PRODUCTS INCLUDE:
 - SIMPSON STRONG-TIE "STRONG-BOLT Z" (ICCES ESR-2713)
 - SIMPSON STRONG-TIE "TITEN HD" (APMO-JUES ER-493)
 - SIMPSON STRONG-TIE "TITEN TURBO" (APMO-JUES ER-712)
 - ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH AC1055.4 AND ICCES AC308 FOR CRACKED AND UN-CRACKED CONCRETE. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS. HOLES SHALL BE DRY AT THE TIME OF INSTALLATION. AC1054-4 TEMPERATURE CATEGORY "B" ASSUMED IN DESIGN. PRIOR TO INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCURRED ORIENTATIONS RESISTING TENSION TENSION LOADS, INSTALLERS ARE REQUIRED TO BE CERTIFIED IN ACCORDANCE WITH THE AC1083 ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM AND MUST BE CONTINUOUSLY INSPECTED.
 - THREADED ROD & REBAR AS ANCHOR ELEMENTS - SIMPSON STRONG-TIE "SET-3G" (ICCES ESR-4057)
 - THREADED ROD & REBAR AS ANCHOR ELEMENTS - SIMPSON STRONG-TIE "SET-XP" (ICCES ESR-2508)
 - THREADED ROD & REBAR AS ANCHOR ELEMENTS - SIMPSON STRONG-TIE "AT-XP" (APMO-JUES ER-240)
 - POST INSTALLED REINFORCING BARS USING THE AC0318 DEVELOPMENT LENGTH DIVISION - SIMPSON STRONG-TIE "SET-XP" (ICCES ESR-2507)
 - POST INSTALLED REINFORCING BARS USING THE AC0318 DEVELOPMENT LENGTH PROVISION - SIMPSON STRONG-TIE "SET-XP" (ICCES ESR-2508)
 - SIMPSON STRONG-TIE CLEAN DKS DUST EXTRACTION SYSTEM IN APPROVED FOR USE WITH THE PRODUCTS LISTED ABOVE TO DRILL AND CLEAN HOLES.
 - FOR ANCHORING INTO GROUT-FILLED CONCRETE MASONRY UNITS.
 - MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICCES AC001 (EXPANSION ANCHORS) OR ICCES AC106 (SCREW ANCHORS) PRE-APPROVED PRODUCTS INCLUDE:
 - SIMPSON STRONG-TIE "STRONG-BOLT Z" (APMO-JUES ER-240)
 - SIMPSON STRONG-TIE "WEDGE-ALL" (ICCES ESR-1396)
 - SIMPSON STRONG-TIE "TITEN HD" & STAINLESS STEEL, TITEN HD" (ICCES ESR-1056)
 - SIMPSON STRONG-TIE "TITEN TURBO" (APMO-JUES ER-716)
 - ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH (ICCES AC036) PRE-APPROVED PRODUCTS INCLUDE:
 - SIMPSON STRONG-TIE "SET-XP" (APMO-JUES ER-265)
 - SIMPSON STRONG-TIE "AT-XP" (APMO-JUES ER-261)
 - SIMPSON STRONG-TIE "ET-HP" (APMO-JUES ER-241)
 - FOR ANCHORING INTO HOLLOW CONCRETE MASONRY UNITS.
 - MECHANICAL ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICCES AC106 FOR PERFORMANCE IN HOLLOW CONCRETE MASONRY. PRE-APPROVED PRODUCTS INCLUDE:
 - SIMPSON STRONG-TIE "STAINLESS STEEL, TITEN HD" (ICCES ESR-1056)
 - SIMPSON STRONG-TIE "TITEN TURBO" (APMO-JUES ER-716)
 - ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICCES AC036 FOR PERFORMANCE IN HOLLOW CONCRETE MASONRY USING MANUFACTURERS RECOMMENDED SCREEN TUBES. PRE-APPROVED PRODUCTS INCLUDE:
 - SIMPSON STRONG-TIE "SET-XP" (APMO-JUES ER-265)
 - SIMPSON STRONG-TIE "AT-XP" (APMO-JUES ER-261)
 - FOR ANCHORING INTO UN-REINFORCED MASONRY.
 - ADHESIVE ANCHORS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICCES AC060 FOR PERFORMANCE IN UN-REINFORCED MASONRY CONFIGURATIONS A, B, AND C. PRE-APPROVED PRODUCTS INCLUDE:
 - SIMPSON STRONG-TIE "ET-HP" (ICCES ESR-3638)
 - FOR ANCHORING LOW VELOCITY AND THREADED STUDS INTO CONCRETE, MASONRY AND STEEL.
 - POWDER-ACTUATED FASTENERS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICCES AC070. PRE-APPROVED PRODUCTS INCLUDE:
 - SIMPSON STRONG-TIE "POWDER-ACTUATED FASTENERS" (ICCES ESR-2138)
 - GAS-ACTUATED FASTENERS - SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC070. PRE-APPROVED PRODUCTS INCLUDE:
 - SIMPSON STRONG-TIE "GAS ACTUATED FASTENERS" (ICCES ESR-2611)

- 8.0 CAST-IN-PLACE CONCRETE NOTES:
- CONCRETE MIXES SHALL BE DESIGNED PER ACI 301 CHAPTER 3, USING PORTLAND CEMENT CONFORMING TO ASTM C-150 OR C-595 AGGREGATE CONFORMING TO ASTM C-33, AND ADMIXTURES CONFORMING TO ASTM C-494, C-1017, C-618, C-989 AND C-260. CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C-64.
 - CONCRETE SHALL CONFORM TO THE FOLLOWING COMPRESSIVE STRENGTH, SLUMP AND UNIT WEIGHT RATIO REQUIREMENTS:

ELEMENT	MIN. f _c (28 DAYS)	SLUMP*	UNIT WEIGHT
CONCRETE NOT NOTED	3000 PSI	2" TO 4"	145 PCF
FOOTINGS	3000 PSI	2" TO 4"	145 PCF
SLABS-ON-GRADE	3000 PSI	2" TO 4"	145 PCF

*AT CONTRACTORS OPTION, AN APPROVED ADMIXTURE MAY BE USED TO PRODUCE FLOWABLE CONCRETE. MAXIMUM SLUMP SHALL NOT EXCEED 10 INCHES. THE CONTRACTOR SHALL SUBMIT TEST RESULTS OF THE PROPOSED CONCRETE MIXES ALONG WITH THE MANUFACTURERS TECHNICAL DATA FOR APPROVAL PRIOR TO POURING CONCRETE.
 - ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301, "SPECIFICATION FOR STRUCTURAL CONCRETE BUILDINGS", HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
 - WATER REDUCING ADMIXTURE SHALL BE USED IN ALL CONCRETE.
 - AIR ENTRAINING ADMIXTURE IN ACCORDANCE WITH ACI 301 TABLE 3.4.1 SHALL BE USED IN ALL CONCRETE EXPOSED TO FREEZING AND THAWING DURING CONSTRUCTION AND/OR SERVICE CONDITIONS.
 - WATER/CEMENT RATIO SHALL NOT EXCEED 0.50 FOR ANY CONCRETE SUBJECTED TO FREEZING/THAWING.
 - ALL PUMPED CONCRETE SHALL HAVE A WATER/CEMENT RATIO LESS THAN 0.50 AND SHALL CONTAIN A HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER).
 - IN NO CASE SHALL A WATER/CEMENT RATIO EXCEED THE FOLLOWING:

f _c 3000 PSI	0.60 MAX. w/c RATIO
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 - ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 U.N.O. - EXCEPT THAT REINFORCING WHICH IS REQUIRED TO BE WELDED SHALL CONFORM TO ASTM A706. ALL WELDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH AWS D14. EPOXY COATED REINFORCING SHALL CONFORM TO ASTM A-775.
 - ALL WELDED WIRE FABRIC (WVF) SHALL CONFORM TO ASTM A-185.
 - ALL REINFORCING STEEL SHALL BE SET AND TIED IN PLACE PRIOR TO POURING OF CONCRETE. DO NOT FIELD BEND BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE UNLESS SPECIFICALLY INDICATED OR APPROVED BY THE ENGINEER.
 - REINFORCING STEEL, INCLUDING HOOKS AND BENDS, SHALL BE DETAILED IN ACCORDANCE WITH ACI 315. ALL REINFORCING STEEL INDICATED AS BEING CONTINUOUS (CONT) SHALL BE LAPPED "LTS" PER EMBEDMENT AND LAP SPLICE SCHEDULE UNLESS OTHERWISE NOTED.
 - UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 THROUGH #18 BARS - 2"
 - #6 BAR, W31 OR D31 WIRE & SMALLER - 1 1/2"
 - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS & JOISTS:
 - #14 AND #18 BARS - 1 1/2"
 - #11 BAR AND SMALLER - 3/4"PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS:
 - #11 BAR AND SMALLER - 1 1/2"
 - #6 BAR AND LARGER - 3/4"
 - #6 BAR, W31 OR D31 WIRE AND SMALLER - 1/2"
 - CONCRETE CAST AGAINST EARTH - 3"
 - BAR SUPPORTS AND HOLDING BARS SHALL BE PROVIDED FOR ALL REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER AND PLACEMENT. BAR SUPPORTS SHALL BE PLASTIC TYPED OR STAINLESS STEEL.
 - ALL EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH DOCUMENTATION THAT ALL MATERIALS CONFORM TO THE QUALITY STANDARDS SPECIFIED IN THE GENERAL BUILDING CODE.
 - IN ORDER TO AVOID CONCRETE SHRINKAGE CRACKING, PLACE CONCRETE SLABS IN AN ALTERNATING LANE PATTERN. THE MAXIMUM LENGTH OF SLAB CAST IN ANY ONE CONTINUOUS POUR SHALL BE LIMITED TO 90 FEET.
 - FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 90% OF ITS 28 DAY COMPRESSIVE STRENGTH. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND RE-SHORING.
 - CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, ARE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND MAY REQUIRE ADDITIONAL REINFORCING. SUCH JOINTS SHALL BE CLEARLY DETAILED ON THE SHOP DRAWINGS AND ALL REINFORCING SHALL PASS CONTINUOUSLY THROUGH THE JOINT.
 - REFER TO ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIPS, REGLETS, WASHERS, MASONRY ANCHORS, BRICK LEDGE ELEVATIONS, SLAB DEPRESSIONS AND MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGELS, ETC.
 - REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
 - REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR UNDERFLOOR, PERIMETER AND OTHER DRAINS AND FOR SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADERS ARE RESPONSIBLE FOR THEIR ITEMS.
 - FILL SLABS, NOT SHOWN ON THE STRUCTURAL DRAWINGS, SHALL BE REINFORCED WITH A MINIMUM OF 6X6 W/ 4X4 WVF

9.0 PLYWOOD/GYPBOARD SHEATHING TO WOOD NOTES:

- ALL PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH AMERICAN PLYWOOD ASSOCIATION (APA) SPECIFICATIONS.
- ALL ROOF PANEL SHEATHING SHALL BE 7/16" (NOM.) TYPE CDX, EXP. 1 APA RATED 24/16 SHEATHING. SUITABLE EDGE SUPPORT SHALL BE PROVIDED BY USE OF PANEL CLIPS OR BLOCKING BETWEEN FRAMING, UNLESS OTHERWISE NOTED CONNECT ROOF SHEATHING WITH 6d COMMON NAILS AT 6" O/C AT SUPPORTED PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS.
- ALL FLOOR SHEATHING SHALL BE 19/32" (NOM.) APA RATED STURD-1-FLOOR, @ 16" O.C. EXP. 1, WITH TONGUE AND GROOVE EDGE. UNLESS OTHERWISE NOTED CONNECT FLOOR SHEATHING WITH 10d COMMON NAILS SPACED 6" O/C AT SUPPORTED EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS. FIELD-GUUE USING ADHESIVES MEETING APA SPECIFICATIONS AFG-01, APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL WALL PANEL SHEATHING, INCLUDING DESIGNATED SHEAR WALLS, SHALL BE 7/16" (NOM.) TYPE CDX, EXP. 1 APA RATED 24/16 SHEATHING. UNLESS OTHERWISE INDICATED, CONNECT WALL SHEATHING WITH 10d COMMON NAILS SPACED 6" O/C AT SUPPORTED PANEL EDGES AND 12" O/C AT INTERMEDIATE SUPPORTS. SEE SHEAR WALL SCHEDULE FOR FASTENING REQUIREMENTS.
- INSTALL ALL PLYWOOD SHEATHING WITH THE LONG DIMENSION OF THE PANEL ACROSS SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER PANEL END JOINTS. ALLOW 18" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE SHEATHING MANUFACTURER.
- ALL NAILING SHALL BE CAREFULLY DRIVEN AND NOT OVERDRIVEN. THE USE OF PNUMATIC NAIL GUNS MAY BE USED PROVIDED (1) NAIL IS INSTALLED FOR EVERY OVERDRIVEN NAIL (THOSE SUNK > 1/8" INTO SHEATHING), THE USE OF STAPLES IS PROHIBITED.
- ALL EXTERIOR WALLS SHALL BE SHEATHED ON BOTH FACES WITH GYP-BOARD SHEATHING (SEE ARCH. DWGS. FOR THICKNESS) AND CONNECTED WITH 6d COOLER NAILS SPACED 7" O/C AT SUPPORTED PANEL EDGES AND INTERMEDIATE SUPPORTS.
- PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES AS FOLLOWS: ROOFS AND FLOORS - ONLY WHERE INDICATED ON PLAN WALLS - PER THE SHEAR WALL SCHEDULE ON SHEET S1.2.

10.0 WOOD FRAMING NOTES:

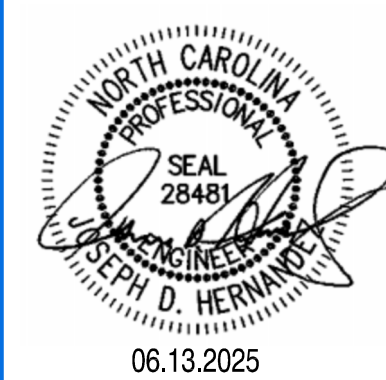
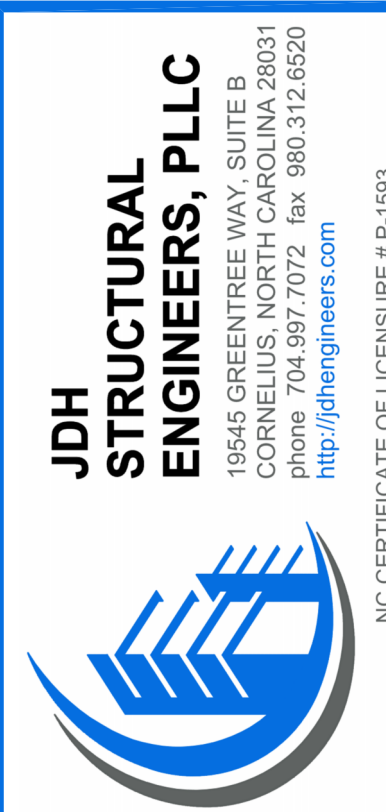
- ALL WOOD FRAMING MATERIAL SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT. ALLOWABLE STRESS REQUIREMENTS OF ALL MATERIAL SHALL BE IN ACCORDANCE WITH THE U RATING AS NOTED BELOW.
- ALL STUD AND WALL FRAMING SHALL BE EITHER OF THE FOLLOWING:
A. NO. 2 GRADE SOUTHERN YELLOW PINE (SYP)
B. NO. 2 GRADE SPRUCE-PINE-FIR (SPF)
- ALL JOIST, RAFTER & MISC. FRAMING SHALL BE NO. 2 GRADE, SOUTHERN PINE. PROVIDE FULL-DEPTH (OR METAL) BRIDGING AT MIDSPAN AND AT A MAXIMUM SPACING OF 8'-0" O/C IN BETWEEN.
- ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS, WHERE POSSIBLE. ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER ANPA STD. M4).
- THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOADBEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOADBEARING FRAMING SHALL BE LIMITED TO LESS THAN 1/2 OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) AND THICKER LUMBER SHALL BE LIMITED TO 1/2 OF THE NARROW FACE DIMENSION.
- ALL NAILING NOT OTHERWISE INDICATED SHALL BE IN ACCORDANCE WITH THE "NAILING SCHEDULE" ON SHEET S1.1. NAILING SHALL NOT BE OVERDRIVEN.
- PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS, WHICH RUN PARALLEL WITH JOISTS AND UNDER ALL CONCENTRATED LOADS FROM FRAMING ABOVE.
- PROVIDE HEADER BEAMS OF THE SAME SIZE AS JOISTS OR RAFTERS TO FRAME AROUND OPENINGS IN THE PLYWOOD DECK UNLESS OTHERWISE INDICATED.
- STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A-36 SPECIFICATIONS AND BE 1/4" THICK UNLESS OTHERWISE INDICATED. BOLTS CONNECTING WOOD MEMBERS SHALL BE PER ASTM A-307 AND BE 3/4" DIAMETER UNLESS OTHERWISE INDICATED. PROVIDE WASHERS FOR ALL BOLT HEADS AND NUTS IN CONTACT WITH WOOD SURFACES.
- BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
- PREFABRICATED "MICRO-LAM" LUMBER HEADERS AND BEAMS SHALL BE AS MANUFACTURED BY "TRUSS JOIST McMillan CORP.", BOISE, IDAHO OR APPROVED EQUAL. MICRO-LAM MATERIAL SHALL BE 2.0; SOUTHERN PINE. DO NOT CUT OR NOTCH MICRO-LAM MATERIAL WITHOUT THE MANUFACTURER'S APPROVAL.
- PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY", (TEL 800-999-5099), OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS. ALL STEEL SHALL HAVE A MINIMUM THICKNESS OF 0.04 INCHES (PER ASTM A446, GRADE A) AND BE GALVANIZED (COATING G60).
- HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED THE REQUIREMENTS OF N.C.B.C. 2018.
- ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIP GALVANIZED.

11.0 PRE-ENGINEERED WOOD TRUSS NOTES:

- WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE FOLLOWING LOADS:
A. MINIMUM GRAVITY LOADING:
ROOF TRUSSES
TOP CHORD LIVE LOAD: 20 PSF
DEAD LOAD: 8 PSF
FLOOR TRUSSES
40 PSF
15 PSF
BOTTOM LIVE LOAD: 10 PSF
DEAD LOAD: 5 PSF
- WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION OF THE NATIONAL FOREST PRODUCTS ASSOCIATION. THE DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES OF THE TRUSS PLATE INSTITUTE AND N.C.B.C 2003.4.
- WOOD MATERIALS SHALL BE SOUTHER PINE, DOUGLAS FIR OR LARCH AND SHALL BE KILN DRIED AND USED AT 19% MAXIMUM MOISTURE CONTENT. PROVIDE GRADE NO. 2 OR AS REQUIRED TO SATISFY STRESS REQUIREMENTS.
- CONNECTOR PLATES SHALL BE NOT LESS THAN 0.036 INCHES (20 GAUGE) IN COATED THICKNESS, SHALL MEET OR EXCEED ASTM GRADE A OR HIGHER AND SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A-655 (COATING G60). MINIMUM STEEL YIELD STRESS SHALL BE 33,000 PSI.
- TRUSSES SHALL BE FABRICATED IN A PROPERLY EQUIPPED MANUFACTURING FACILITY OF A PERMANENT NATURE. TRUSSES SHALL BE MANUFACTURED BY EXPERIENCED WORKMEN, USING PRECISION CUTTING, JOGGING AND PRESSING EQUIPMENT UNDER THE REQUIREMENTS IN QUALITY CONTROL STANDARD QST-66 OF THE TRUSS PLATE INSTITUTE.
- SECONDARY BENDING STRESSES IN TRUSS TOP AND BOTTOM CHORDS DUE TO DEAD, LIVE AND WIND LOADS SHALL BE CONSIDERED IN THE DESIGN. LOAD DURATION FACTORS SHALL BE PER THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".
- WOOD TRUSSES SHALL BE ERECTED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S REQUIREMENTS. THIS WORK SHALL BE DONE BY A QUALIFIED AND EXPERIENCED CONTRACTOR. TRUSS ERECTION BY AN INEXPERIENCED OR NON-QUALIFIED CONTRACTOR CAN RESULT IN CONSTRUCTION COLLAPSE AND/OR SERIOUS INJURY AND DAMAGE.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION AND PERFORMANCE OF THE TRUSSES. THE GUIDELINES SET FORTH BY THE TRUSS PLATE INSTITUTE PUBLICATION "HB-91, COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES" SHALL BE A MINIMUM REQUIREMENT.
- TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED NOR OTHERWISE ALTERED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- SUBMIT COMPLETE SHOP DRAWINGS FOR ALL WOOD TRUSSES SHOWING MEMBER SIZES, SPECIES, GRADE, MOISTURE CONTENT, SPAN, CAMBER, DIMENSIONS, CHORD PITCH, BRACING REQUIREMENTS AND LOADINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN NORTH CAROLINA.

12.0 LAMINATED VENEER LUMBER (LVL) NOTES:

- SUBMIT MANUFACTURER'S DESCRIPTIVE LITERATURE INDICATING MATERIAL COMPOSITION, THICKNESS, DIMENSIONS, LOADING AND FABRICATION DETAILS.
- SUBMIT MANUFACTURER'S LITERATURE INDICATING INSTALLATION DETAILS, INCLUDE LOCATIONS AND DETAILS OF BEARING, BLOCKING, BRIDGING AND CUTTING FOR WORK BY OTHERS.
- LVL BASIS OF DESIGN IS PER 2.0E GP LAM HAVING THE FOLLOWING PROPERTIES:
A. QUALIFIED TO ASTM D 5456 BY APA- THE ENGINEERED WOOD ASSOCIATION.
B. MODULUS OF ELASTICITY E = 2.0 x 10 PSI
C. SHEAR MODULUS OF ELASTICITY G = 0.125 x 10 PSI
D. FLEXURAL STRESS Fb = 2,900 PSI
E. HORIZONTAL SHEAR Fv = 265 PSI
F. COMPRESSION PERP. TO GRAIN Fc = 845 PSI
- DELIVER MATERIALS TO THE JOB SITE IN MANUFACTURER'S ORIGINAL PACKAGING, CONTAINERS AND BUNDLES WITH MANUFACTURER'S IDENTIFICATION INTACT AND LEGIBLE.
- STORE AND HANDLE MATERIALS TO PROTECT AGAINST CONTACT WITH DAMP AND WET SURFACES, EXPOSURE TO WEATHER, BREAKAGE AND DAMAGE. PROVIDE AIR CIRCULATION UNDER COVERING AND AROUND STACKS OF MATERIALS.
- EXCEPT FOR CUTTING TO LENGTH, GP LAM LVL BEAMS AND HEADERS SHALL NOT BE CUT, DRILLED OR NOTCHED, EXCEPT AS NOTED IN MANUFACTURER'S LITERATURE.
- PROVIDE GP LAM LVL BEAMS AND HEADERS WHERE INDICATED ON DRAWINGS USING HANGERS AND ACCESSORIES SPECIFIED.
- INSTALL GP LAM LVL BEAMS AND HEADERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



SIGNATURE:

CLIENT:

The orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

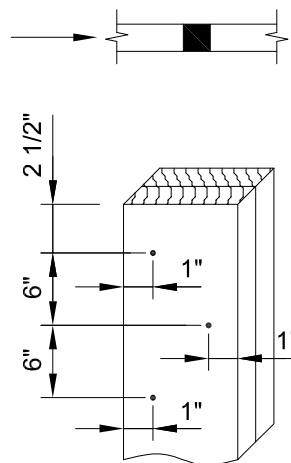
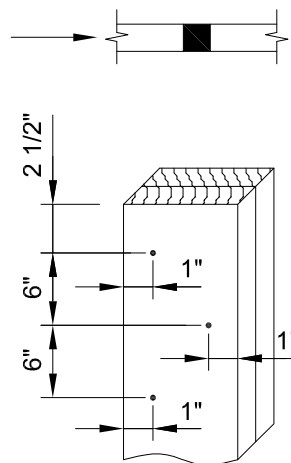
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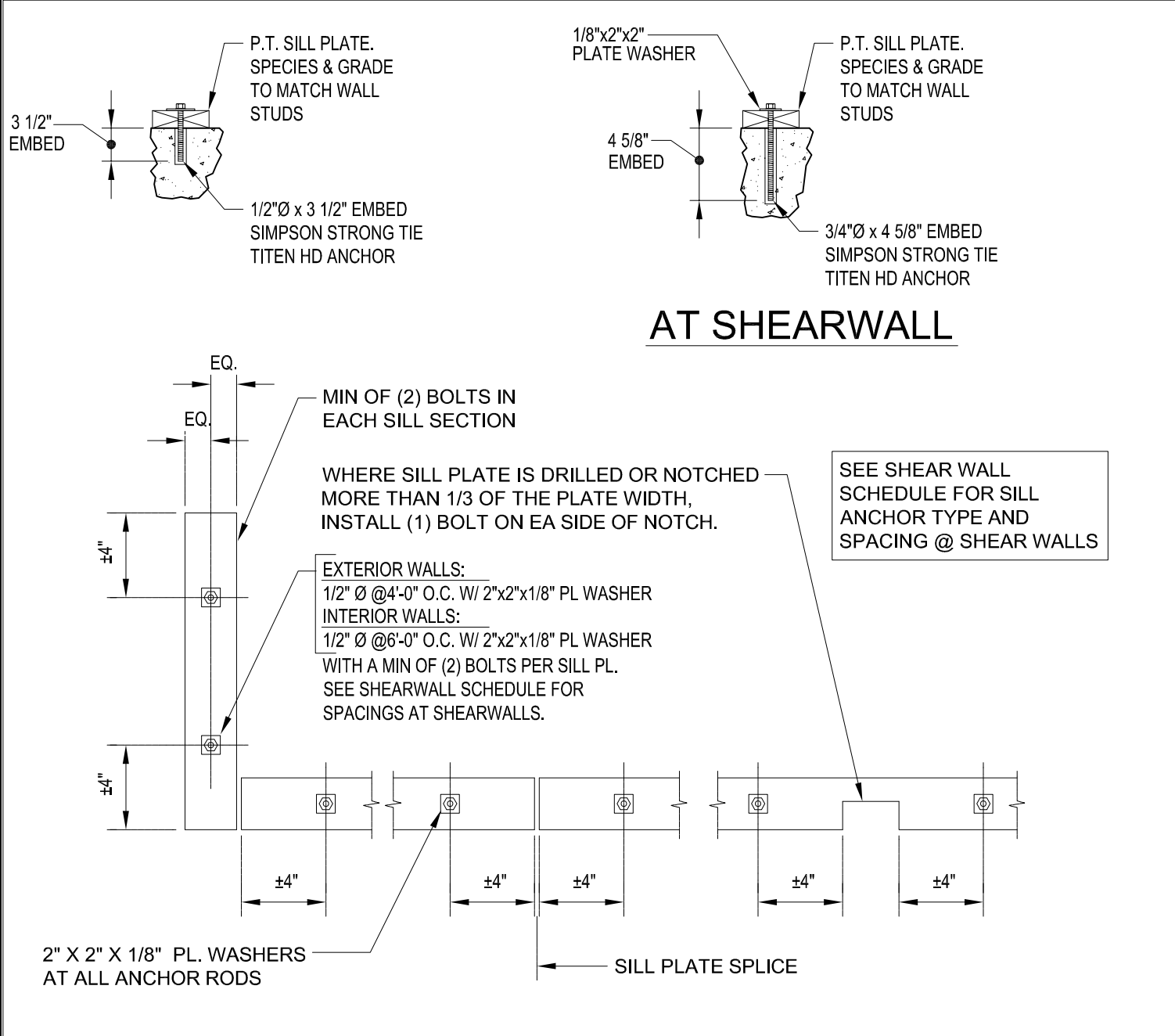
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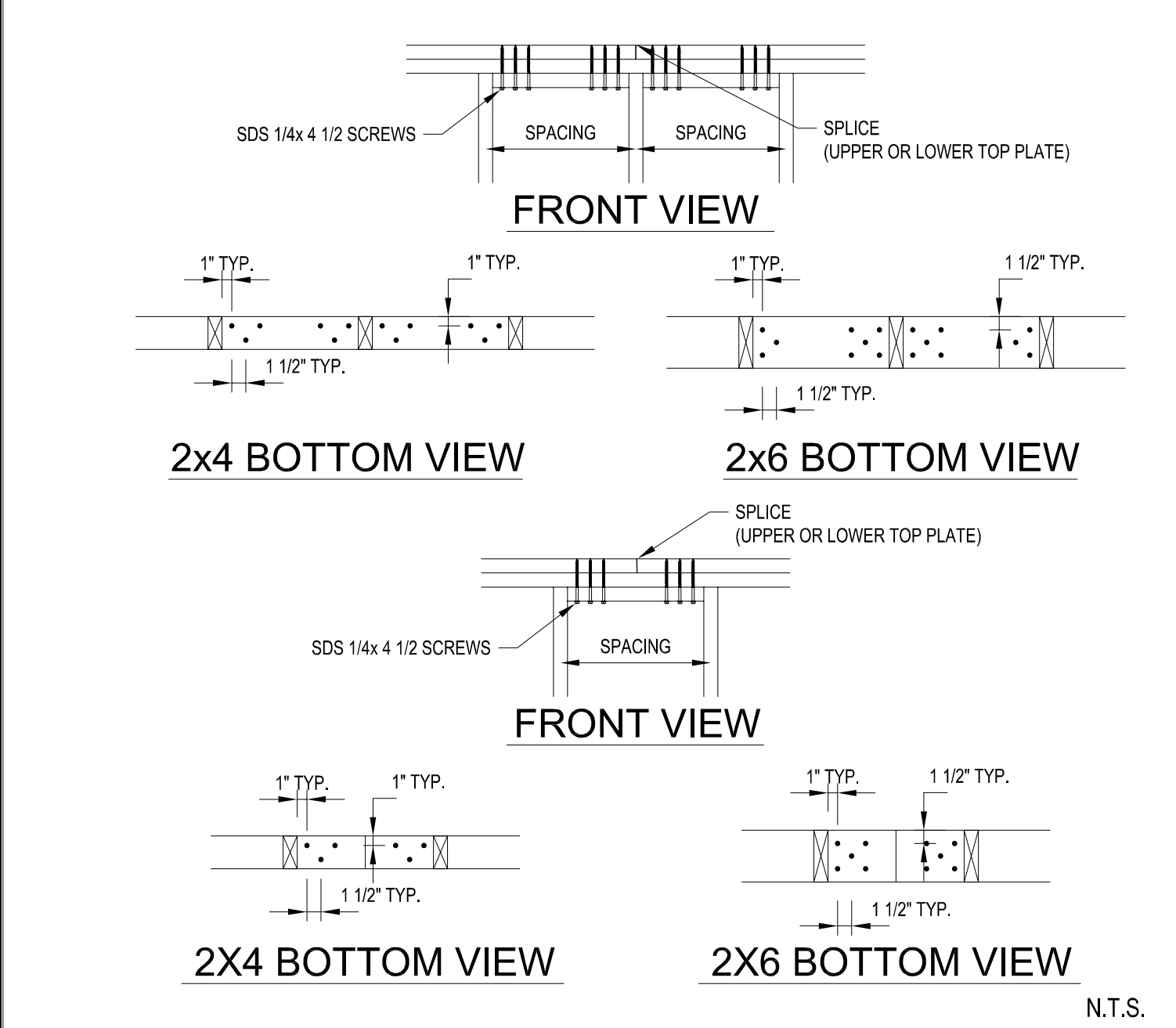
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S-0.01

<div>WALL STUD SCHEDULE</div> <table><tr><th>MARK</th><th>LEVEL</th><th>STUDS</th><th>SPACING</th></tr><tr><td>W1</td><td>B - ROOF <small>NOTES: (H) (S)</small></td><td>2 x 6 SPF NO. 2</td><td>24" O.C.</td></tr><tr><td rowspan="3">W2</td><td>B - 1</td><td>(3)2 x 4 SPF NO. 2</td><td>24" O.C.</td></tr><tr><td>1 - 3</td><td>(2)2 x 4 SPF NO. 2</td><td>24" O.C.</td></tr><tr><td>3 - ROOF</td><td>2 x 4 SPF NO. 2</td><td>24" O.C.</td></tr><tr><td>W3</td><td>1 - ROOF</td><td>2 x 4 SPF NO. 2</td><td>24" O.C.</td></tr></table> <div>NOTES: 1. 2x6 STUDS WITH SAME SPECIES AND GRADE CAN BE SUBSTITUTED FOR 2x4 STUDS WHERE INDICATED ON ARCH DWGS. TO ACCOMMODATE M.E.P. CHASES, ETC. 2. SPF DENOTES SPRUCE-PINE-FIR. 3. BRACE AT 1/3 POINTS. 4. BRACE AT MID-POINT. 5. NO ADDITIONAL BRACING REQUIRED WHERE WALL TYPE IS WITHIN A SHEAR WALL.</div>				MARK	LEVEL	STUDS	SPACING	W1	B - ROOF <small>NOTES: (H) (S)</small>	2 x 6 SPF NO. 2	24" O.C.	W2	B - 1	(3)2 x 4 SPF NO. 2	24" O.C.	1 - 3	(2)2 x 4 SPF NO. 2	24" O.C.	3 - ROOF	2 x 4 SPF NO. 2	24" O.C.	W3	1 - ROOF	2 x 4 SPF NO. 2	24" O.C.	<div>FASTENING REQUIREMENTS FOR MULTIPLE MEMBERS</div> <table><tr><th>PIECES IN MEMBER</th><th>MAX. SPAN</th><th>NAILED 16d COMMON</th><th>MAX. SPAN</th><th>NAILED 16d COMMON</th></tr><tr><td rowspan="2">2</td><td>20'</td><td>2 ROWS AT 12" oc</td><td>20'</td><td>2 ROWS AT 24" oc STAGGER AT 12"</td></tr><tr><td>30'</td><td>3 ROWS AT 12" oc</td><td>40'-6"</td><td>2 ROWS AT 12" oc</td></tr><tr><td rowspan="2">3</td><td>15'</td><td>2 ROWS AT 12" oc</td><td>15'</td><td>2 ROWS AT 24" oc STAGGER AT 12"</td></tr><tr><td>22'-6"</td><td>3 ROWS AT 12" oc</td><td>30'</td><td>2 ROWS AT 12" oc</td></tr><tr><td rowspan="2">4</td><td>-</td><td>N / A</td><td>13'-6"</td><td>2 ROWS AT 24" oc STAGGER AT 12"</td></tr><tr><td>-</td><td>N / A</td><td>27'</td><td>2 ROWS AT 12" oc</td></tr></table> <div>NOTES: 1. TOP AND BOTTOM ROWS OF CONNECTORS SHALL BE 2" FROM EDGE 2. BOLT HOLES ARE TO BE THE SAME DIAMETER AS THE BOLT. EVERY BOLT MUST BOLT HOLES ARE EXTEND THROUGH THE FULL THICKNESS OF THE MEMBER. USE WASHERS UNDER HEAD AND NUT. CARRIAGE BOLTS MAY BE USED, BUT THE OUTERMOST OF THE HEAD MAY NOT BE DRAWN IN BEYOND FLUSH WITH THE OUTSIDE FACE OF THE LVL MEMBER. 3. FOR THREE-PIECE MEMBER, SPECIFIED NAILING IS FROM EACH SIDE. 4. FOUR-PLY MEMBERS, REGARDLESS OF DEPTH, MUST BE BOLTED.</div>				PIECES IN MEMBER	MAX. SPAN	NAILED 16d COMMON	MAX. SPAN	NAILED 16d COMMON	2	20'	2 ROWS AT 12" oc	20'	2 ROWS AT 24" oc STAGGER AT 12"	30'	3 ROWS AT 12" oc	40'-6"	2 ROWS AT 12" oc	3	15'	2 ROWS AT 12" oc	15'	2 ROWS AT 24" oc STAGGER AT 12"	22'-6"	3 ROWS AT 12" oc	30'	2 ROWS AT 12" oc	4	-	N / A	13'-6"	2 ROWS AT 24" oc STAGGER AT 12"	-	N / A	27'	2 ROWS AT 12" oc	<div>TYP. WOOD HEADER SCHEDULE</div> <table><tr><th rowspan="2">WALL STUDS</th><th rowspan="2">ROUGH OPENING WIDTH "W"</th><th rowspan="2">SIZE</th><th colspan="2">2x4 STUD WALLS</th></tr><tr><th>JACKS</th><th>KINGS</th></tr><tr><td>2x4</td><td>"W" ≤ 3'-0"</td><td>(2) 2x8 w/ 1/2" PLYWOOD PL</td><td>SINGLE</td><td>SINGLE</td></tr><tr><td>2x4</td><td>3'-0" < "W" < 6'-0"</td><td>(2) 2x8 w/ 1/2" PLYWOOD PL</td><td>SINGLE</td><td>DOUBLE</td></tr><tr><td>2x4</td><td>6'-0" < "W" < 9'-0"</td><td>(2) 2x10 w/ 1/2" PLYWOOD PL</td><td>DOUBLE</td><td>DOUBLE</td></tr><tr><td>2x4</td><td>9'-0" < "W" < 12'-0"</td><td>(2) 1 3/4" X 11" LVL</td><td>DOUBLE</td><td>TRIPLE</td></tr><tr><td>2x4</td><td>12'-0" > "W"</td><td>SEE SECTIONS</td><td>—</td><td>—</td></tr></table> <div>TYP. 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WHERE DOUBLE JOISTS ARE REQUIRED, PROVIDE "TYPICAL POST" AT EACH END. SEE POST SCHEDULE ON S1.00 SERIES SHEETS. 2. 2x8 BLOCKING OR 2x12 BLOCKING @ 6'-0" O.C. MAX AS BRIDGING.</div>				MARK	MEMBER	SPACING	J1	2 x 10 SPF NO.2	16" OC																												
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BEARING</td><td>16d COMMON</td><td>2</td></tr><tr><td>COLLAR TIE TO RAFTER, FACE NAIL</td><td>10d COMMON</td><td>3</td></tr><tr><td>JACK RAFTER TO HIP, TOE NAIL OR FACE NAIL</td><td>10d COMMON 16d COMMON</td><td>3 2</td></tr><tr><td>ROOF RAFTER TO 2-by RIDGE BEAM, TOE NAIL OR FACE NAIL</td><td>16d COMMON 16d COMMON</td><td>2 2</td></tr><tr><td>JOIST TO BAND JOIST, FACE NAIL</td><td>16d COMMON</td><td>3</td></tr></table>		CONNECTION, LOCATION	NAIL	NUMBER OR SPACING	BAND JOIST TO SILL OR TOP PLATE, TOE NAIL	8d	6" o.c.	JOIST TO BAND JOIST, FACE NAIL	16d COMMON	3	JOIST TO SILL OR GIRDER, TOE NAIL	8d COMMON	3	BRIDGING TO JOIST, TOE NAIL EACH END	8d COMMON	2	LEDGER STRIP	16d COMMON	3 AT EACH JOIST	1x6 OR LESS SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	2	OVER 1x8 SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	3	2-INCH SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	16d COMMON	2	SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d COMMON	16" O.C.	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AND MINIMUM LENGTH= 3 IN. SEE NAILING SCHEDULE BELOW</div>		POST		CONNECTION		MARK	SIZE	BASE	CAP	P1	6x6 SPF NO. 2	PBS66	CC64/ECC64	P2	5.25x5.25 PSL 2.0E	PBS66	CC64/ECC64	P3	(3)2x6 SPF NO. 2			P4	HSS3-1/2x3-1/2x3/16			P5	4x4 SPF NO. 2	PBS44	CC44/ECC44	P6	3.5x3.5 PSL 2.0E	PBS44	CC44/ECC44	P7	3.5x5.25 PSL 2.0E	PBS46	CC46	P8	(3)2x4 SPF NO. 2			<div>WOOD BEAM SCHEDULE</div> <table><tr><th>MARK</th><th>SIZE</th><th>POST</th></tr><tr><td>B1</td><td>(2)2x12 SPF NO.2</td><td>SEE PLAN</td></tr><tr><td>B2</td><td>(2)1-3/4x11-7/8 LVL (2.0E)</td><td>SEE PLAN</td></tr><tr><td>B3</td><td>(3)1-3/4x14 LVL (2.0E)</td><td>SEE PLAN</td></tr><tr><td>B4</td><td>(2)2x10 SPF NO.2</td><td>SEE PLAN</td></tr><tr><td>B5</td><td>(3)1-3/4x11-7/8 LVL (2.0E)</td><td>SEE PLAN</td></tr></table> <div>NOTES: 1. SEE WALL OPENING SCHEDULE. TYPICAL FOR OPENING FRAMING NOT SPECIFICALLY NOTED ON THE PLANS. 2. SEE TYPICAL POST SCHEDULE & ELEVATION ON S1.00 SERIES SHEETS 3. IF NO POST IS SHOWN ON PLAN, USE (2) WALL STUDS UNDER BEAM</div>		MARK	SIZE	POST	B1	(2)2x12 SPF NO.2	SEE PLAN	B2	(2)1-3/4x11-7/8 LVL (2.0E)	SEE PLAN	B3	(3)1-3/4x14 LVL (2.0E)	SEE PLAN	B4	(2)2x10 SPF NO.2	SEE PLAN	B5	(3)1-3/4x11-7/8 LVL (2.0E)	SEE PLAN	<div>WOOD HEADER SCHEDULE</div> <table><tr><th>MARK</th><th>SIZE</th><th>JACKS</th><th>KINGS</th></tr><tr><td>H1</td><td>(3)1-3/4x9-1/4 LVL (2.0E)</td><td>TRIPLE</td><td>DOUBLE</td></tr><tr><td>H2</td><td>(3)2x12 SPF NO.2</td><td>DOUBLE</td><td>DOUBLE</td></tr></table> <div>NOTES: 1. SEE WALL OPENING SCHEDULE. TYPICAL FOR OPENING FRAMING NOT SPECIFICALLY NOTED ON THE PLANS.</div>		MARK	SIZE	JACKS	KINGS	H1	(3)1-3/4x9-1/4 LVL (2.0E)	TRIPLE	DOUBLE	H2	(3)2x12 SPF NO.2	DOUBLE	DOUBLE
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AND MINIMUM LENGTH= 3 IN. SEE NAILING SCHEDULE BELOW</div>		POST		CONNECTION		MARK	SIZE	BASE	CAP	P1	6x6 SPF NO. 2	PBS66	CC64/ECC64	P2	5.25x5.25 PSL 2.0E	PBS66	CC64/ECC64	P3	(3)2x6 SPF NO. 2			P4	HSS3-1/2x3-1/2x3/16			P5	4x4 SPF NO. 2	PBS44	CC44/ECC44	P6	3.5x3.5 PSL 2.0E	PBS44	CC44/ECC44	P7	3.5x5.25 PSL 2.0E	PBS46	CC46	P8	(3)2x4 SPF NO. 2			<div>WOOD BEAM SCHEDULE</div> <table><tr><th>MARK</th><th>SIZE</th><th>POST</th></tr><tr><td>B1</td><td>(2)2x12 SPF NO.2</td><td>SEE PLAN</td></tr><tr><td>B2</td><td>(2)1-3/4x11-7/8 LVL (2.0E)</td><td>SEE PLAN</td></tr><tr><td>B3</td><td>(3)1-3/4x14 LVL (2.0E)</td><td>SEE PLAN</td></tr><tr><td>B4</td><td>(2)2x10 SPF NO.2</td><td>SEE PLAN</td></tr><tr><td>B5</td><td>(3)1-3/4x11-7/8 LVL (2.0E)</td><td>SEE PLAN</td></tr></table> <div>NOTES: 1. SEE WALL OPENING SCHEDULE. TYPICAL FOR OPENING FRAMING NOT SPECIFICALLY NOTED ON THE PLANS. 2. SEE TYPICAL POST SCHEDULE & ELEVATION ON S1.00 SERIES SHEETS 3. IF NO POST IS SHOWN ON PLAN, USE (2) WALL STUDS UNDER BEAM</div>		MARK	SIZE	POST	B1	(2)2x12 SPF NO.2	SEE PLAN	B2	(2)1-3/4x11-7/8 LVL (2.0E)	SEE PLAN	B3	(3)1-3/4x14 LVL (2.0E)	SEE PLAN	B4	(2)2x10 SPF NO.2	SEE PLAN	B5	(3)1-3/4x11-7/8 LVL (2.0E)	SEE PLAN	<div>WOOD HEADER SCHEDULE</div> <table><tr><th>MARK</th><th>SIZE</th><th>JACKS</th><th>KINGS</th></tr><tr><td>H1</td><td>(3)1-3/4x9-1/4 LVL (2.0E)</td><td>TRIPLE</td><td>DOUBLE</td></tr><tr><td>H2</td><td>(3)2x12 SPF NO.2</td><td>DOUBLE</td><td>DOUBLE</td></tr></table> <div>NOTES: 1. SEE WALL OPENING SCHEDULE. TYPICAL FOR OPENING FRAMING NOT SPECIFICALLY NOTED ON THE PLANS.</div>		MARK	SIZE	JACKS	KINGS	H1	(3)1-3/4x9-1/4 LVL (2.0E)	TRIPLE	DOUBLE	H2	(3)2x12 SPF NO.2	DOUBLE	DOUBLE
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<div>CONNECTION, LOCATION</div> <table><tr><th>CONNECTION, LOCATION</th><th>NAIL</th><th>NUMBER OR SPACING</th></tr><tr><td>BAND JOIST TO SILL OR TOP PLATE, TOE NAIL</td><td>8d</td><td>6" o.c.</td></tr><tr><td>JOIST TO BAND JOIST, FACE NAIL</td><td>16d COMMON</td><td>3</td></tr><tr><td>JOIST TO SILL OR GIRDER, TOE NAIL</td><td>8d COMMON</td><td>3</td></tr><tr><td>BRIDGING TO JOIST, TOE NAIL EACH END</td><td>8d COMMON</td><td>2</td></tr><tr><td>LEDGER STRIP</td><td>16d COMMON</td><td>3 AT EACH JOIST</td></tr><tr><td>1x6 OR LESS SUBFLOOR TO EACH JOIST, FACE NAIL</td><td>8d COMMON</td><td>2</td></tr><tr><td>OVER 1x8 SUBFLOOR TO EACH JOIST, FACE NAIL</td><td>8d COMMON</td><td>3</td></tr><tr><td>2-INCH SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL</td><td>16d COMMON</td><td>2</td></tr><tr><td>SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL</td><td>16d COMMON</td><td>16" O.C.</td></tr><tr><td>TOP OR SOLE PLATE TO STUD, END NAIL</td><td>16d COMMON</td><td>2</td></tr><tr><td>STUD TO SOLE PLATE, TOE NAIL</td><td>8d COMMON</td><td>4</td></tr><tr><td>DOUBLED STUDS, FACE NAIL</td><td>10d COMMON</td><td>24" O.C.</td></tr><tr><td>DOUBLED TOP PLATES, FACE NAIL</td><td>10d COMMON</td><td>16" O.C.</td></tr><tr><td>TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL</td><td>16d COMMON</td><</tr></table>		CONNECTION, LOCATION	NAIL	NUMBER OR SPACING	BAND JOIST TO SILL OR TOP PLATE, TOE NAIL	8d	6" o.c.	JOIST TO BAND JOIST, FACE NAIL	16d COMMON	3	JOIST TO SILL OR GIRDER, TOE NAIL	8d COMMON	3	BRIDGING TO JOIST, TOE NAIL EACH END	8d COMMON	2	LEDGER STRIP	16d COMMON	3 AT EACH JOIST	1x6 OR LESS SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	2	OVER 1x8 SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	3	2-INCH SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	16d COMMON	2	SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d COMMON	16" O.C.	TOP OR SOLE PLATE TO STUD, END NAIL	16d COMMON	2	STUD TO SOLE PLATE, TOE NAIL	8d COMMON	4	DOUBLED STUDS, FACE NAIL	10d COMMON	24" O.C.	DOUBLED TOP PLATES, FACE NAIL	10d COMMON	16" O.C.	TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL	16d COMMON																																																																																																																										
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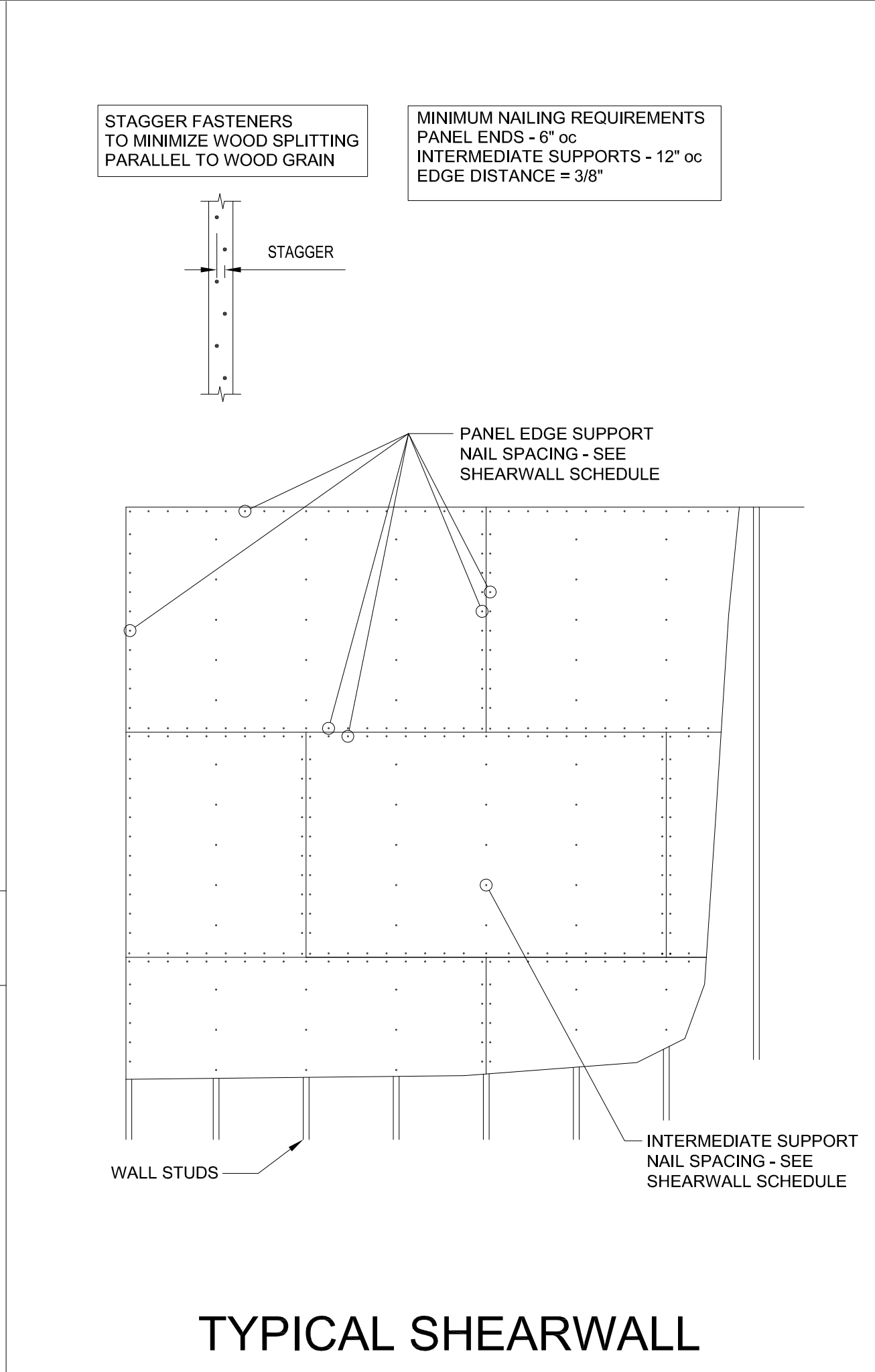
1 TYP. SILL PLATE BOLTING @ S.O.G.



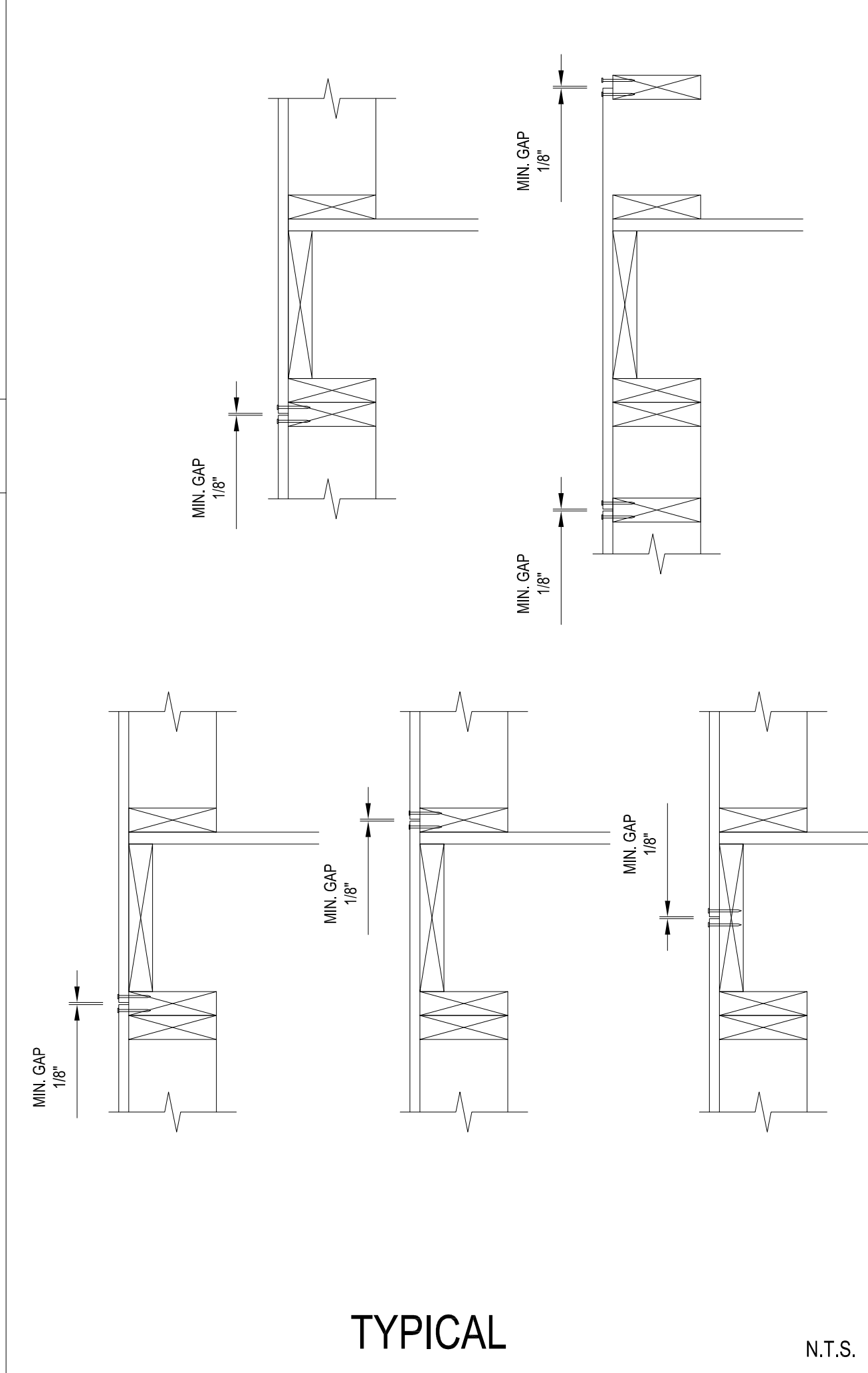
5 TOP PLATE SPLICE DETAILS



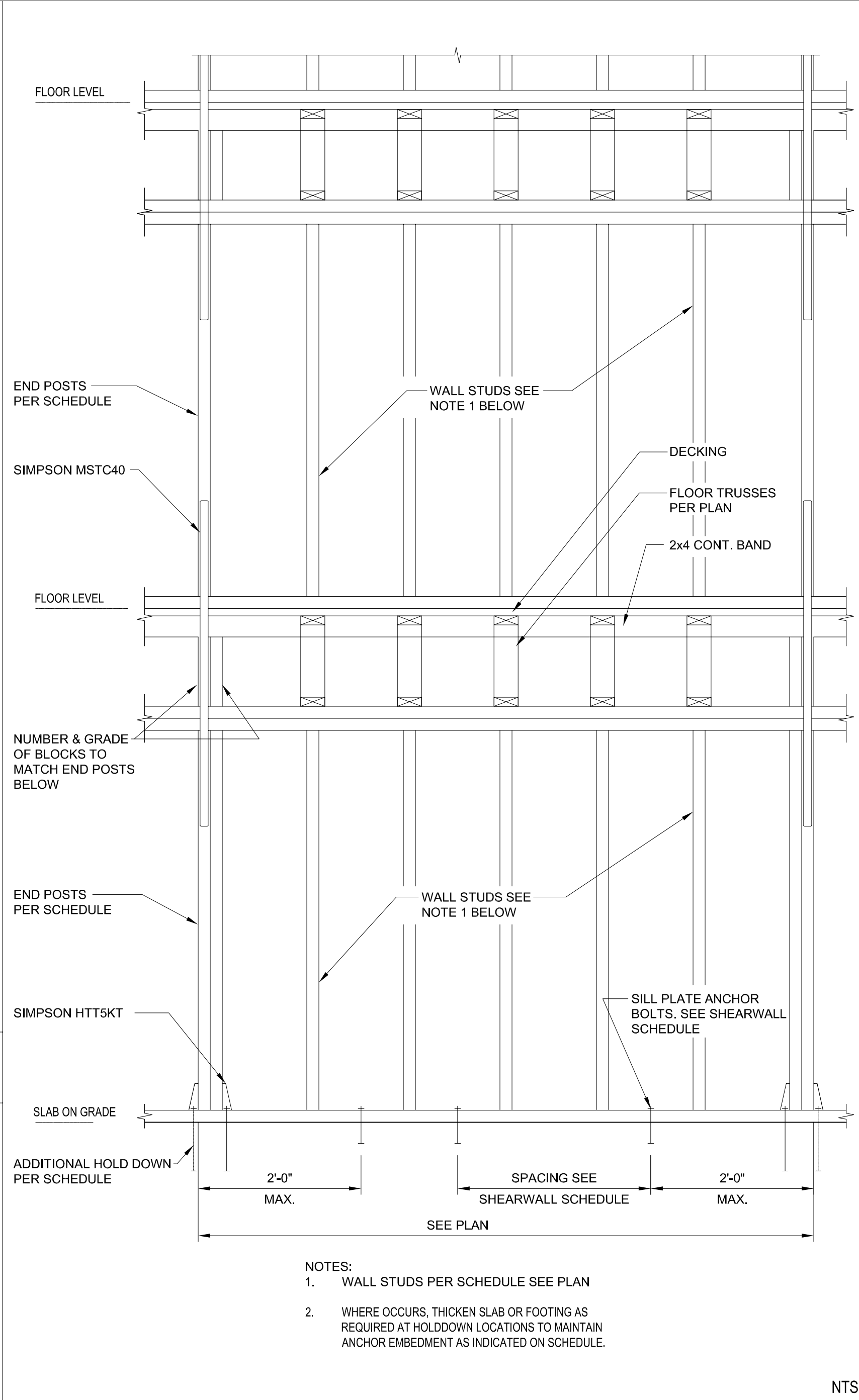
6 NOT USED



2 PANEL NAILING / SCREWING



7 STORY TO STORY SHEATHING



3 SW1 & SW2 ELEVATION

SHEAR WALL SCHEDULE					
MARK	FLOOR	PANEL TYPE SEE ARCH ASSEMBLY	# OF PANELS (NOTE #3)	PANEL NAILING	
				NAIL SIZE	EDGE SUPPORT NAIL SPACING
SW-1	B - 3	7/16" PLYWOOD	SINGLE	8d	4" O.C.
	3 - Roof	7/16" PLYWOOD	SINGLE	8d	6" O.C.
SW-2	B - 3	5/8" GYP.	SINGLE	6d COOLER	6" O.C.
	3 - Roof	5/8" GYP.	SINGLE	6d COOLER	6" O.C.
SW-3	B - 3	5/8" GYP.	SINGLE	6d COOLER	6" O.C.
	3 - Roof	5/8" GYP.	SINGLE	6d COOLER	6" O.C.

NOTES:

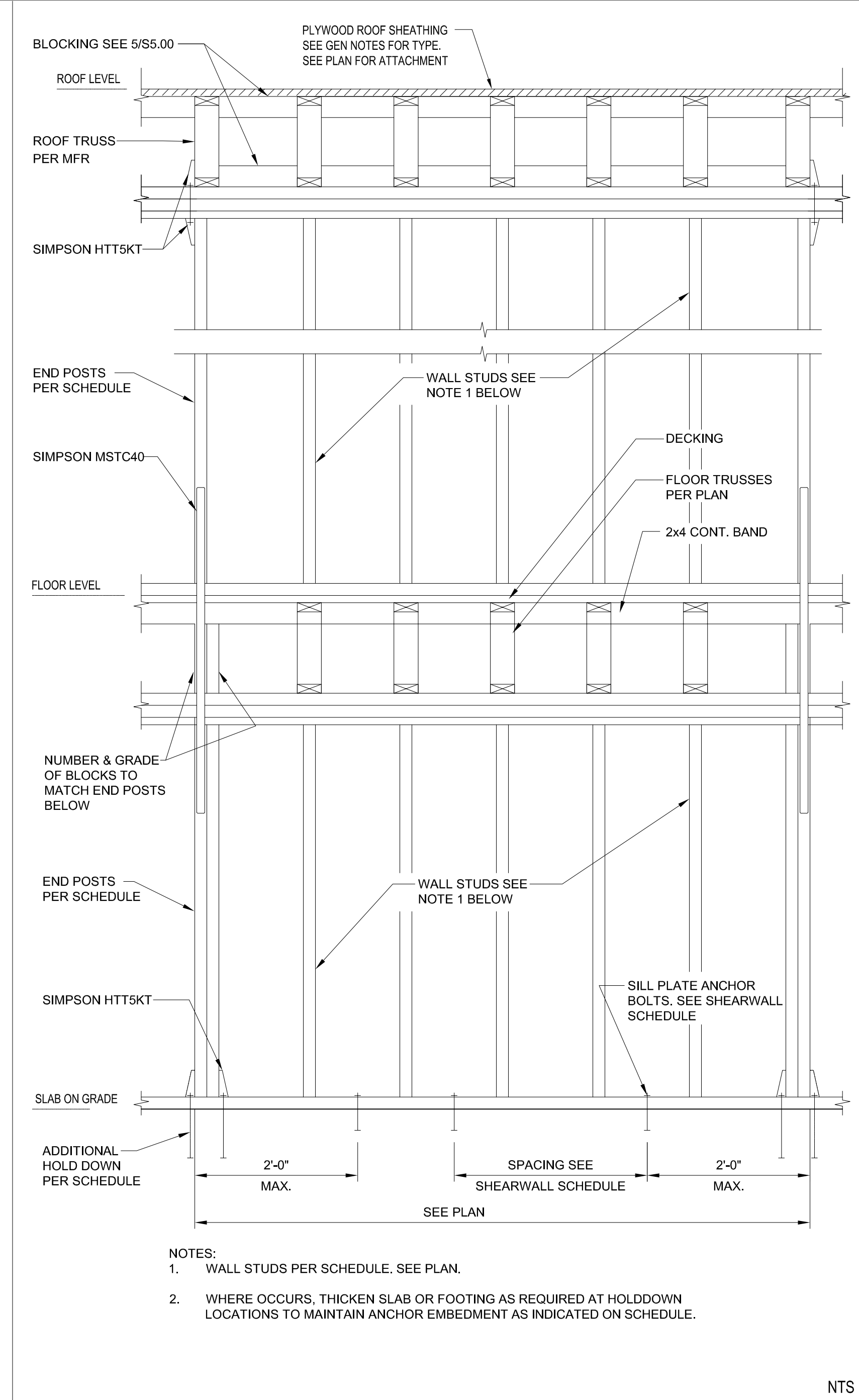
1. SEE 8/S1.2 FOR PERFORATED SHEAR WALL ELEVATION.

2. END POST HOLD DOWN, USE SIMPSON HTT4 W/ 5/8"Ø KWIK BOLT 3 (EMBED = 4")

3. "SINGLE" INDICATES PLYWOOD SHEATHING ON ONE SIDE OF WALL STUDS.

4. ALL FOUR SIDES OF EACH PANEL MUST BE CONTINUOUSLY BLOCKED (TYPICAL)

8 SHEARWALL SCHEDULE



4 SW3 ELEVATION

SCHEDULE									
		INTERMEDIATE SUPPORT NAIL SPACING		BLOCKING REQUIRED (NOTE #4)	END POST (NOTE #2)	SILL PLATE ANCHORING			
		12" O.C.		YES	(2)2x6 SPF NO.2	3/4" Ø x 4 5/8" EMBED TITEN HD @32" O.C.			
		12" O.C.		YES	(2)2x6 SPF NO.2				
		6" O.C.		YES	(4)2x4 SPF NO.2	3/4" Ø x 4 5/8" EMBED TITEN HD @32" O.C.			
		6" O.C.		YES	(3)2x4 SPF NO.2				
		6" O.C.		YES	(4)2x4 SPF NO.2	3/4" Ø x 4 5/8" EMBED TITEN HD @32" O.C.			
		6" O.C.		YES	(3)2x4 SPF NO.2				

8 SHEARWALL SCHEDULE

JDH
STRUCTURAL
ENGINEERS, PLLC

18545 GREENTREE WAY, SUITE B
CORNELIUS, NORTH CAROLINA 28031
phone 704.997.7072 fax 980.312.6520
http://jdheengineers.com

NC CERTIFICATE OF LICENSURE # P-1693

PROFESSIONAL
SEAL
28481
STEPH D. HERING
06.13.2025

SIGNATURE:

CLIENT:
The orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President

Orchards
PROPERTIES

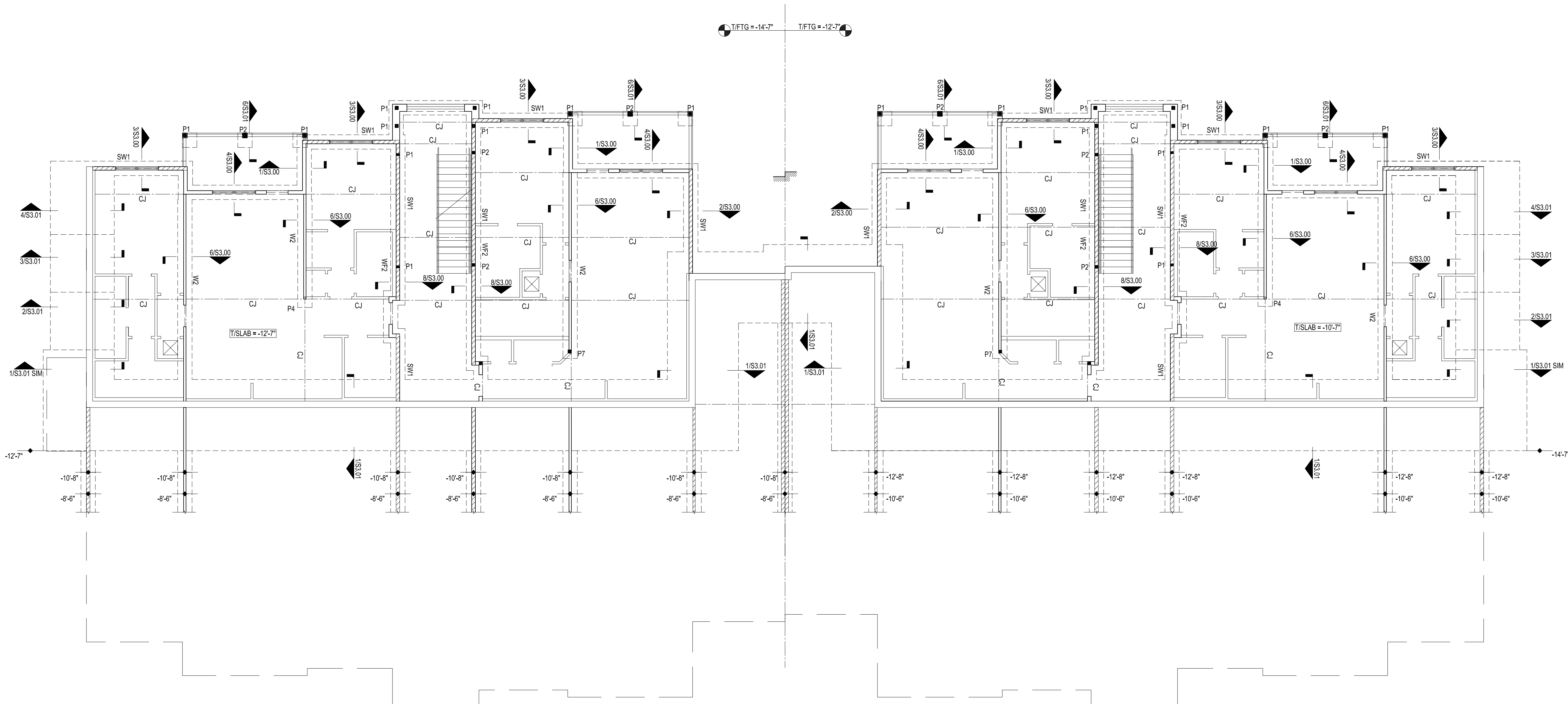
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO :
ISSUE DATE: 09/27/24
PROJECT #: 22105
DRAWN BY:
CHECKED BY:

DWG DESCRIPTION :
TYPICAL DETAILS

SHEET #:
S-1.02



BASEMENT FOUNDATION PLAN

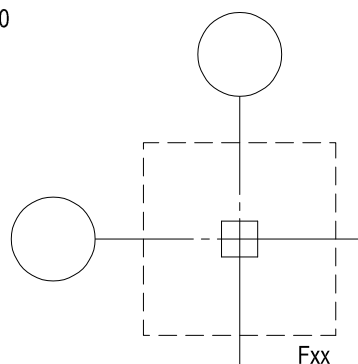
SCALE: 1/8" = 1'-0"

LEGEND:

- INDICATES STEP IN FOOTING
- INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
- INDICATES SHEAR WALL LOCATION AND LABEL
- INDICATES LOAD BEARING WALL AND LABEL
- INDICATES NON-STRUCTURAL WALL
- INDICATES LOAD BEARING WALL BELOW
- INDICATES WALL OPENING
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
- * Jx * INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- * Bx * INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
- * RJx * INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

FOUNDATION PLAN NOTES:

- ELEVATIONS FOR FOOTINGS, SLABS, STEEL, WALLS, FLOORS, ELEVATOR PITS, ETC. ARE REFERENCED + OR - FROM DATUM ELEVATION SEE SHEET S2.02 (I.E. T/SL +2'-6", T/W -5'-3", T/STL -6'1/4", ETC.).
- T/FTG ELEVATIONS SHOWN ON PLAN ARE FOR STRIP AND SPREAD FOOTINGS. T/FTG ELEVATION AROUND PERIMETER SHALL BE -2'-0" U.N.O. WITH FOOTING STEPS SHOWN IN RELATIVE LOCATIONS. SEE S1.00 SERIES SHEETS "TYPICAL DETAILS" FOR FOOTING STEP AND SPACING REQUIREMENTS.
- TYPICAL SLAB ON GRADE (S.O.G.) IS 4" NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6-W1.4xW1.4 WWF (FLAT SHEETS) ON 6" CRUSHED STONE BASE. SEE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS. SEE S2.00 FOR SLAB CONTROL JOINT LAYOUT.
- SUPPORT WWF AT 1" FROM TOP OF S.O.G. WITH SAND PLATES (CHAIRS WITH PLATE BASES) OR OTHER ACCEPTABLE DEVICES. BRICKS ARE NOT PERMITTED.
- NO UNDERCUTTING AND BACKFILLING IS PERMITTED UNDER ANY FOOTING DUE TO HIGH ALLOWABLE BEARING PRESSURES USED IN FOOTING DESIGN. LEAN CONCRETE (f' = 2000psi) OR FOOTING CONCRETE SHALL BE USED TO "BACKFILL" ANY OVEREXCAVATION.
- CONTRACTOR SHALL SHORE ALL WALLS RECEIVING BACKFILL ON ONLY ONE SIDE OR RECEIVING UNEQUAL LEVELS OF BACKFILL ON OPPOSITE SIDES, UNLESS NOTED OTHERWISE IN THE DETAILS. ANY WALLS FOR WHICH SHORING IS INDICATED AS REQUIRED IN THE PLANS OR DETAILS SHALL BE SHORED REGARDLESS OF BACKFILL CONDITIONS.
- MASONRY SHOWN ON STRUCTURAL DRAWINGS DEFINES ONLY THE EXTENT AND REQUIREMENTS OF MASONRY UTILIZED FOR STRUCTURAL PURPOSES (I.E. BEARING WALLS, SHEAR WALLS, RETAINING WALLS, FOUNDATION WALLS, COLUMNS, ETC.).
- W1 TYP U.N.O., W1 TYP U.N.O., SEE S/S-1.02 FOR SHEARWALLS W/ OPENINGS.
- ALL STUDS TO ALIGN W/ TRUSSES
- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
- REFER TO ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
- SEE S1.00 SERIES SHEETS FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS"; TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.
- SEE S1.00 SERIES SHEETS FOR FOOTING SCHEDULE.
- SEE S1.00 SERIES SHEETS FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
- FOOTINGS ARE NOTED ON PLAN WITH THE FOLLOWING DESIGNATIONS:
Fxx = FOOTING MARK PER SCHEDULE ON S1.00



SIGNATURE:

CLIENT:
The orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President



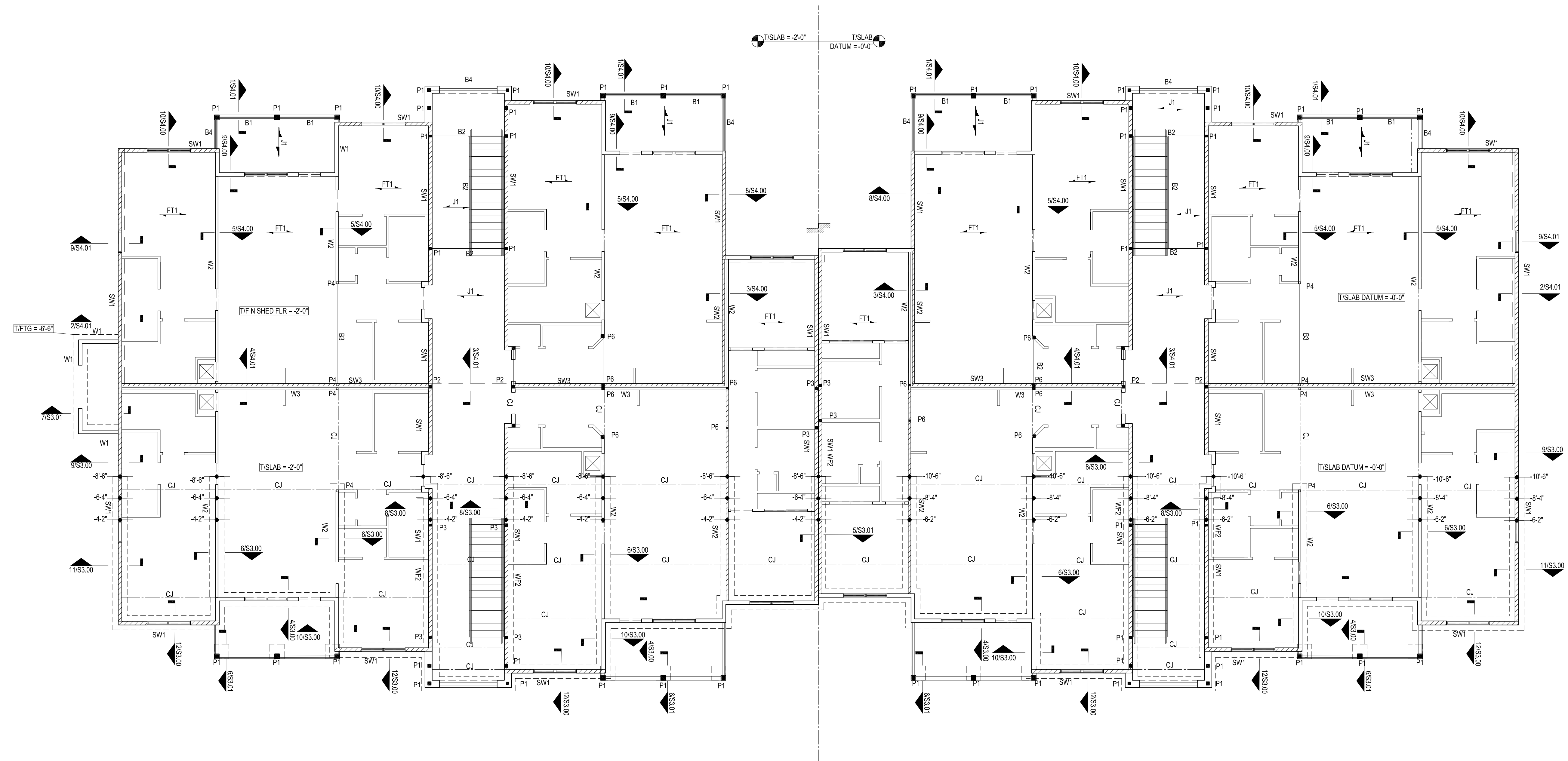
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 09/27/24
PROJECT #: 22105
DRAWN BY:
CHECKED BY:

DWG DESCRIPTION:
BUILDINGS 1 & 5 BASEMENT
FOUNDATION PLAN

SHEET #:
S-2.01B



FIRST FLOOR FOUNDATION & FRAMING PLAN

SCALE: 1/8" = 1'-0"

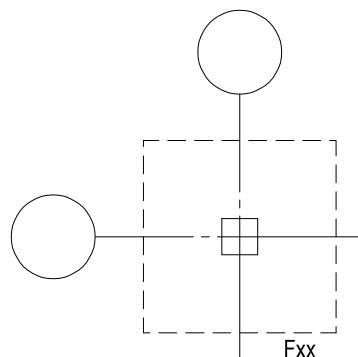
LEGEND:

- INDICATES STEP IN FOOTING
- INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
- INDICATES SHEAR WALL LOCATION AND LABEL
- INDICATES LOAD BEARING WALL AND LABEL
- INDICATES NON-STRUCTURAL WALL
- INDICATES LOAD BEARING WALL BELOW
- INDICATES WALL OPENING
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
- * Jx * INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- * Bx * INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
- * RJx * INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

FOUNDATION PLAN NOTES:

- T/SL DATUM ELEVATION IS 0'-0". ELEVATIONS FOR FOOTINGS, SLABS, STEEL, WALLS, FLOORS, ELEVATOR PITS, ETC. ARE REFERENCED + OR - FROM DATUM ELEVATION (I.E. T/SL +2'-6", TW -5'-3", T/STL -6'14", ETC.).
- T/FTG ELEVATIONS SHOWN ON PLAN ARE FOR STRIP AND SPREAD FOOTINGS. T/FTG ELEVATION AROUND PERIMETER SHALL BE -2'-0" U.N.O. WITH FOOTING STEPS SHOWN IN RELATIVE LOCATIONS. SEE S1.00 SERIES SHEETS "TYPICAL DETAILS" FOR FOOTING STEP AND SPACING REQUIREMENTS.
- TYPICAL SLAB ON GRADE (S.O.G.) IS 4" NORMAL WEIGHT CONCRETE REINFORCED WITH 6x6-W1.4xW1.4 WWF (FLAT SHEETS) ON 6" CRUSHED STONE BASE. SEE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS. SEE S2.00 FOR SLAB CONTROL JOINT LAYOUT.
- SUPPORT WWF AT 1" FROM TOP OF S.O.G. WITH SAND PLATES (CHAIRS WITH PLATE BASES) OR OTHER ACCEPTABLE DEVICES. BRICKS ARE NOT PERMITTED.
- NO UNDERCUTTING AND BACKFILLING IS PERMITTED UNDER ANY FOOTING DUE TO HIGH ALLOWABLE BEARING PRESSURES USED IN FOOTING DESIGN. LEAN CONCRETE ($f_c = 2000\text{psi}$) OR FOOTING CONCRETE SHALL BE USED TO "BACKFILL" ANY OVEREXCAVATION.
- CONTRACTOR SHALL SHORE ALL WALLS RECEIVING BACKFILL ON ONLY ONE SIDE OR RECEIVING UNEQUAL LEVELS OF BACKFILL ON OPPOSITE SIDES, UNLESS NOTED OTHERWISE IN THE DETAILS. ANY WALLS FOR WHICH SHORING IS INDICATED AS REQUIRED IN THE PLANS OR DETAILS SHALL BE SHORED REGARDLESS OF BACKFILL CONDITIONS.
- W1 TYP U.N.O., WF1 TYP U.N.O. SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.
- ALL STUDS TO ALIGN W/ TRUSSES
- FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS

- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
- REFER TO ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
- SEE S1.00 SERIES SHEETS FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.
- SEE S1.00 SERIES SHEETS FOR FOOTING SCHEDULE.
- SEE S1.00 SERIES SHEETS FOR COLUMN SCHEDULE AND BASE PLATE DETAILS.
- ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
- FOOTINGS ARE NOTED ON PLAN WITH THE FOLLOWING DESIGNATIONS:
 F_{xx} = FOOTING MARK PER SCHEDULE ON S1.00



SIGNATURE:

CLIENT:

The Orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:

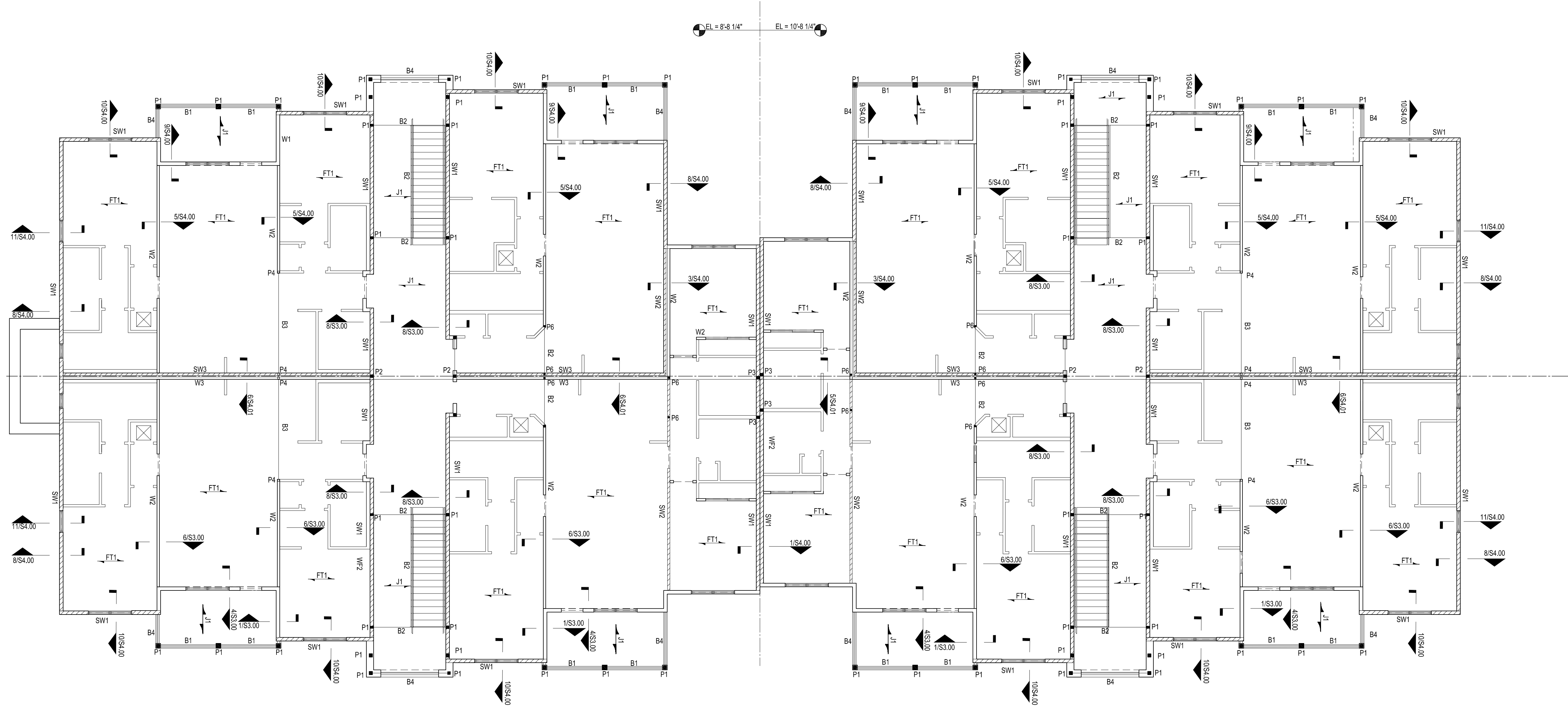
ISSUE DATE: 09/27/24
PROJECT #: 22105
DRAWN BY:
CHECKED BY:

DWG DESCRIPTION:

BUILDINGS 1 & 5 FIRST FLOOR
FOUNDATION/FRAMING PLAN

SHEET #:

S-2.02



SECOND FLOOR FRAMING PLAN

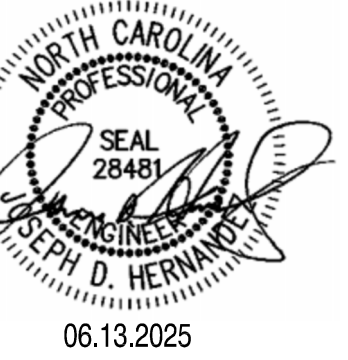
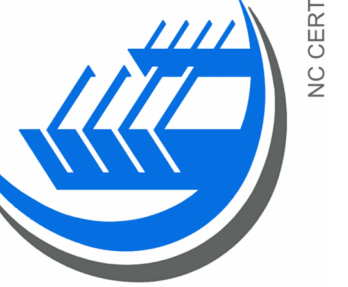
SCALE: 1/8" = 1'-0"

LEGEND:

- INDICATES STEP IN FOOTING
- INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
- INDICATES SHEAR WALL LOCATION AND LABEL
- INDICATES LOAD BEARING WALL AND LABEL
- INDICATES NON-STRUCTURAL WALL
- INDICATES LOAD BEARING WALL BELOW
- INDICATES WALL OPENING
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
- * Jx * INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- * Bx * INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
- * RJx * INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

FLOOR FRAMING PLAN NOTES:

- SEE PLAN FOR FINISHED FLOOR ELEVATIONS FROM DATUM ELEVATION, U.N.O., ON PLAN AS (+X'-X") OR (-X'-X") AS REFERENCED FROM NOMINAL DATUM.
- WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
- WHERE AVAILABLE, DIMENSIONS AND LOCATIONS FOR OPENINGS ARE SHOWN ON THE LOWEST LEVEL ON WHICH THE OPENING FIRST OCCURS AND ON SUBSEQUENT LEVELS WHERE DIMENSIONS OR LOCATIONS VARY.
- SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWS PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH 10d NAILS @ 16" O.C.
- TYPICAL FLOOR DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O., ON DRAWINGS.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
- SEE S1.00 SERIES SHTS. FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.
- SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.
- SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.
- SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.
- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
- ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
- SEE 3/S1.03 FOR TYPICAL DECKING LAYOUT DETAILS, USE UNBLOCKED DIAPHRAGM U.N.O. USE BLOCKED DIAPHRAGM FOR SHADED AREA.
USE 10d NAILS WITH 2" BOUNDARY SPACING IN BOTH DIRECTIONS.
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.
- INDICATES SHEARWALL LOCATION AND LABEL
- ALL STUDS TO ALIGN W/ TRUSSES
- FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS
- W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.



SIGNATURE:

CLIENT:

The Orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:

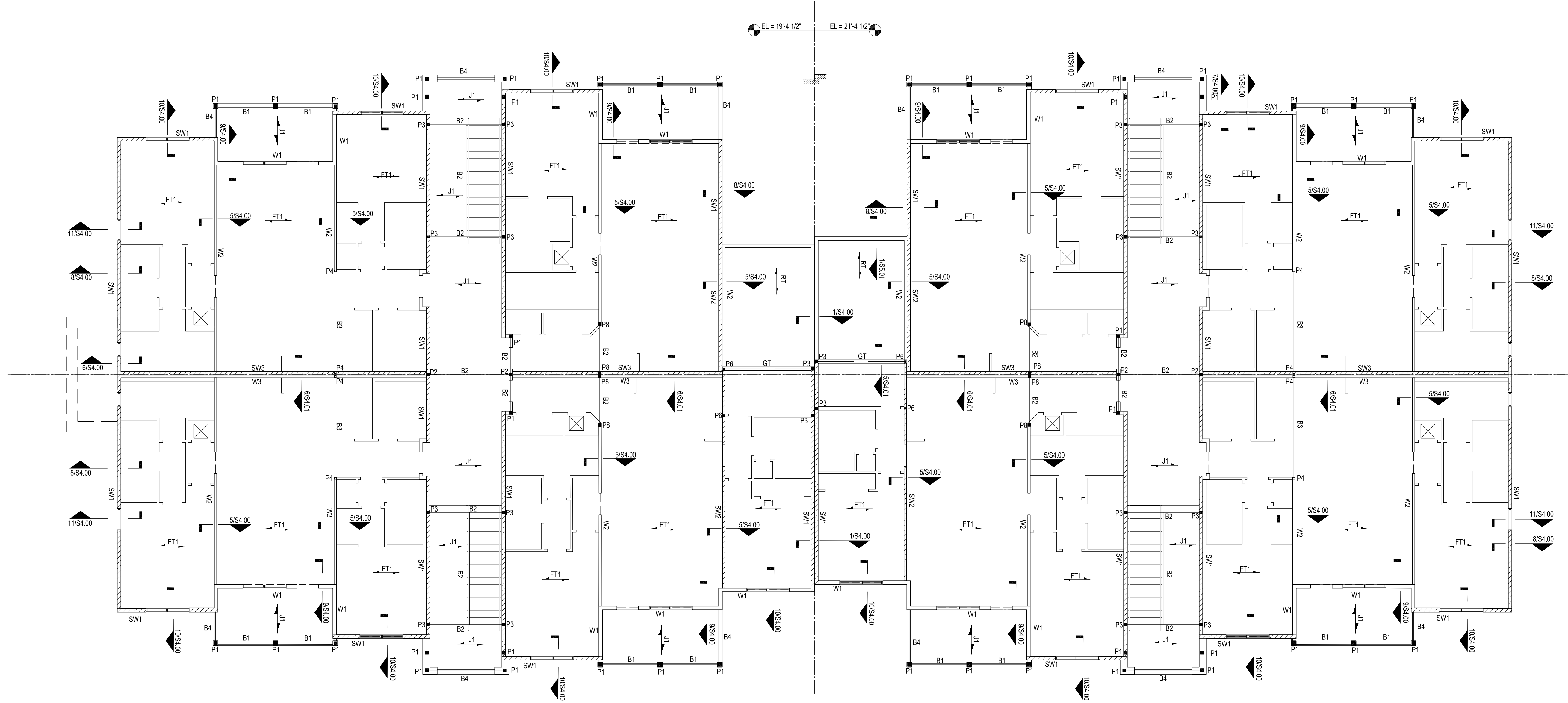
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:
ISSUE DATE: 09/27/24
PROJECT #: 22105
DRAWN BY:
CHECKED BY:

DWG DESCRIPTION:
BUILDINGS 1 & 5 SECOND
FLOOR FRAMING PLAN

SHEET #:
S-2.03



THIRD FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

LEGEND:

- INDICATES STEP IN FOOTING
- INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
- INDICATES SHEAR WALL LOCATION AND LABEL
- INDICATES LOAD BEARING WALL AND LABEL
- INDICATES NON-STRUCTURAL WALL
- INDICATES LOAD BEARING WALL BELOW
- INDICATES WALL OPENING
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
- "Jx" INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- "Bx" INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
- "Rjx" INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

FLOOR FRAMING PLAN NOTES:

- SEE PLAN FOR FINISHED FLOOR ELEVATIONS FROM DATUM ELEVATION, U.N.O. ON PLAN AS (+X'-X") OR (-X'-X") AS REFERENCED FROM NOMINAL DATUM.
- WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
- TYPICAL ROOF DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
- WHERE AVAILABLE, DIMENSIONS AND LOCATIONS FOR OPENINGS ARE SHOWN ON THE LOWEST LEVEL ON WHICH THE OPENING FIRST OCCURS AND ON SUBSEQUENT LEVELS WHERE DIMENSIONS OR LOCATIONS VARY.
- SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWB PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH 10d NAILS @ 16" O.C.
- TYPICAL FLOOR DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
- SEE S1.00 SERIES SHTS. FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.
- SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.
- SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.
- SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.
- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF COLUMN OR CENTERLINE OF WALL U.N.O.
- ALL STRUCTURAL WALLS SHOWN ARE TYPE "W1" U.N.O.
- SEE 3/S1.03 FOR TYPICAL DECKING LAYOUT DETAILS, USE UNBLOCKED DIAPHRAGM U.N.O. USE BLOCKED DIAPHRAGM FOR SHADED AREA.
USE 10d NAILS WITH 2" BOUNDARY SPACING IN BOTH DIRECTIONS.
- INDICATES WOOD POST LABEL, SEE S1.05 FOR SCHEDULE AND DETAIL.
- INDICATES SHEARWALL LOCATION AND LABEL
- ALL STUDS TO ALIGN W/ TRUSSES
- FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS
- W1 TYP U.N.O., WF1 TYP U.N.O., SEE 8/S-1.02 FOR SHEARWALLS W/ OPENINGS.
- GT. INDICATES GIRDER TRUSS

SIGNATURE:

CLIENT:

The Orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO:

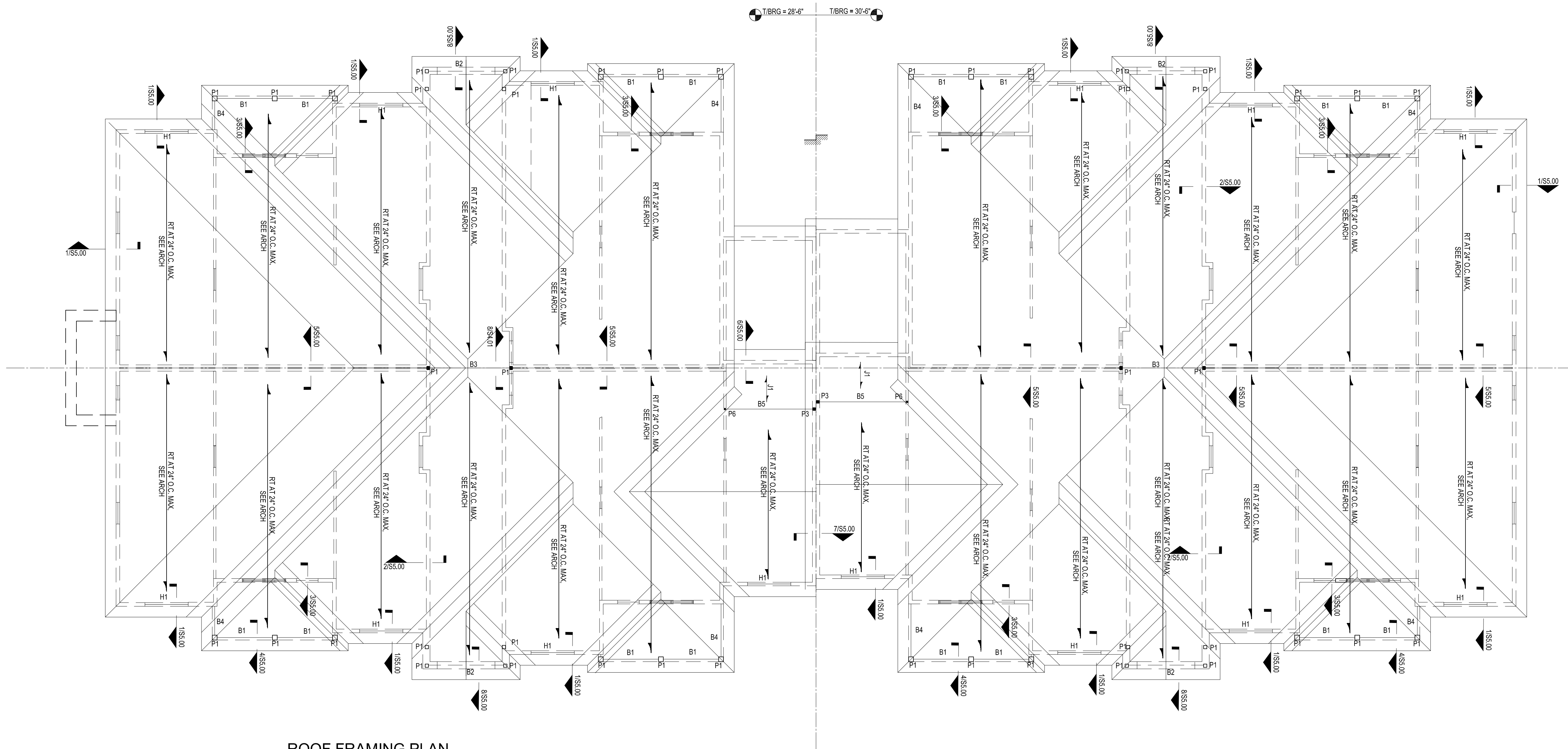
ISSUE DATE: 09/27/24
PROJECT #: 22105
DRAWN BY:
CHECKED BY:

DWG DESCRIPTION:

BUILDINGS 1 & 5 THIRD
FLOOR FRAMING PLAN

SHEET #:

S-2.04



ROOF FRAMING PLAN

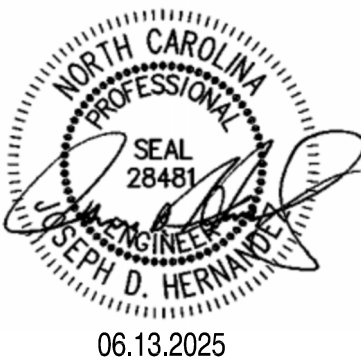
SCALE: 1/8" = 1'-0"

LEGEND:

- INDICATES STEP IN FOOTING
- INDICATES STEP IN FLOOR SLAB OR ROOF STRUCTURE
- INDICATES SHEAR WALL LOCATION AND LABEL
- INDICATES LOAD BEARING WALL AND LABEL
- INDICATES NON-STRUCTURAL WALL
- INDICATES LOAD BEARING WALL BELOW
- INDICATES WALL OPENING
- INDICATES WALL OPENING BELOW
- INDICATES DIRECTION OF FLOOR OR ROOF FRAMING
- "Jx" INDICATES FLOOR JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- "Bx" INDICATES WOOD BEAM LABEL. SEE WOOD BEAM SCHEDULE ON S1.00 SERIES SHEETS
- "RJx" INDICATES ROOF JOIST LABEL. SEE JOIST SCHEDULE ON S1.00 SERIES SHEETS
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.

ROOF FRAMING PLAN NOTES:

- SEE PLAN FOR TRUSS BEARING ELEVATIONS FROM DATUM ELEVATION, U.N.O. ON PLAN AS (+X-X") OR (-X-X") AS REFERENCED FROM NOMINAL DATUM.
- WOOD TRUSS FABRICATOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONAL INFORMATION.
- TYPICAL ROOF DECK OVER WOOD SUPPORT SHALL BE 3/4" TONGUE AND GROOVED EXPOSURE 1, OSB OR PLYWOOD SHEATHING. ATTACH PER GENERAL NOTES ON S1.00 SERIES SHEETS, WOOD FRAMING NOTES U.N.O. ON DRAWINGS.
- WHERE AVAILABLE, DIMENSIONS AND LOCATIONS FOR OPENINGS ARE SHOWN ON THE LOWEST LEVEL ON WHICH THE OPENING FIRST OCCURS AND ON SUBSEQUENT LEVELS WHERE DIMENSIONS OR LOCATIONS VARY.
- SHEATH REMAINING LENGTH OF WALL (BEYOND MIN. SHEAR WALL LENGTH AS PER SCHEDULE) WITH EQUIVALENT NON-SHEAR WALL SHEATHING THICKNESS AND GWB PER ARCH. DWGS. ATTACH NON-SHEAR WALL SHEATHING WITH 10d NAILS @ 16" O.C.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND DRAWINGS OF OTHER DISCIPLINES FOR LOCATIONS AND DIMENSIONS OF OPENINGS, DEPRESSIONS, AND NON-STRUCTURAL MASONRY.
- SEE S1.00 SERIES SHTS. FOR "GENERAL NOTES" AND FOR "TYPICAL DETAILS". TYPICAL DETAILS ARE GENERALLY NOT CUT ON PLANS BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS. WHERE TYPICAL DETAILS ARE CUT IN PLAN, THE INTENT IS TO ILLUSTRATE THE TYPE OF CONDITION AT WHICH THAT DETAIL IS INTENDED TO APPLY RATHER THAN EVERY OCCURRENCE OF THAT DETAIL.
- SEE S1.00 SERIES SHTS. FOR SHEAR WALL INFORMATION.
- SEE S1.00 SERIES SHEETS FOR WOOD JOIST AND ALL BEAM SCHEDULES.
- SEE S1.00 SERIES SHEETS FOR BEARING WALL SCHEDULES.
- DIMENSIONS SHOWN ON PLAN ARE TO CENTERLINE OF WALL U.N.O.
- W1 TYP U.N.O., WF1 TYP U.N.O., SEE S/S-1.02 FOR SHEARWALLS W/ OPENINGS.
- SEE S/S1.03 FOR TYPICAL DECKING LAYOUT DETAILS. USE UNBLOCKED DIAPHRAGM U.N.O.
- INDICATES WOOD POST LABEL. SEE S1.05 FOR SCHEDULE AND DETAIL.
- MAU-1 AND MAU-2 DENOTES ROOF TOP UNITS. SEE MECH. DRAWINGS FOR LOCATION AND EQUIPMENT WEIGHT. JOIST SUPPLIER TO DESIGN TO SUIT. SEE S1.00 FOR ROOF LOADS.
- SEE S1.05 FOR WALL OPENINGS
- ALL STUDS TO ALIGN W/ TRUSSES
- FT1 INDICATES 18" DEEP FLOOR TRUSS @ 24" O.C. BY OTHERS



SIGNATURE:

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The Orchards at Naples Road, LLC
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Luis Graef: President



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Hendersonville, North Carolina

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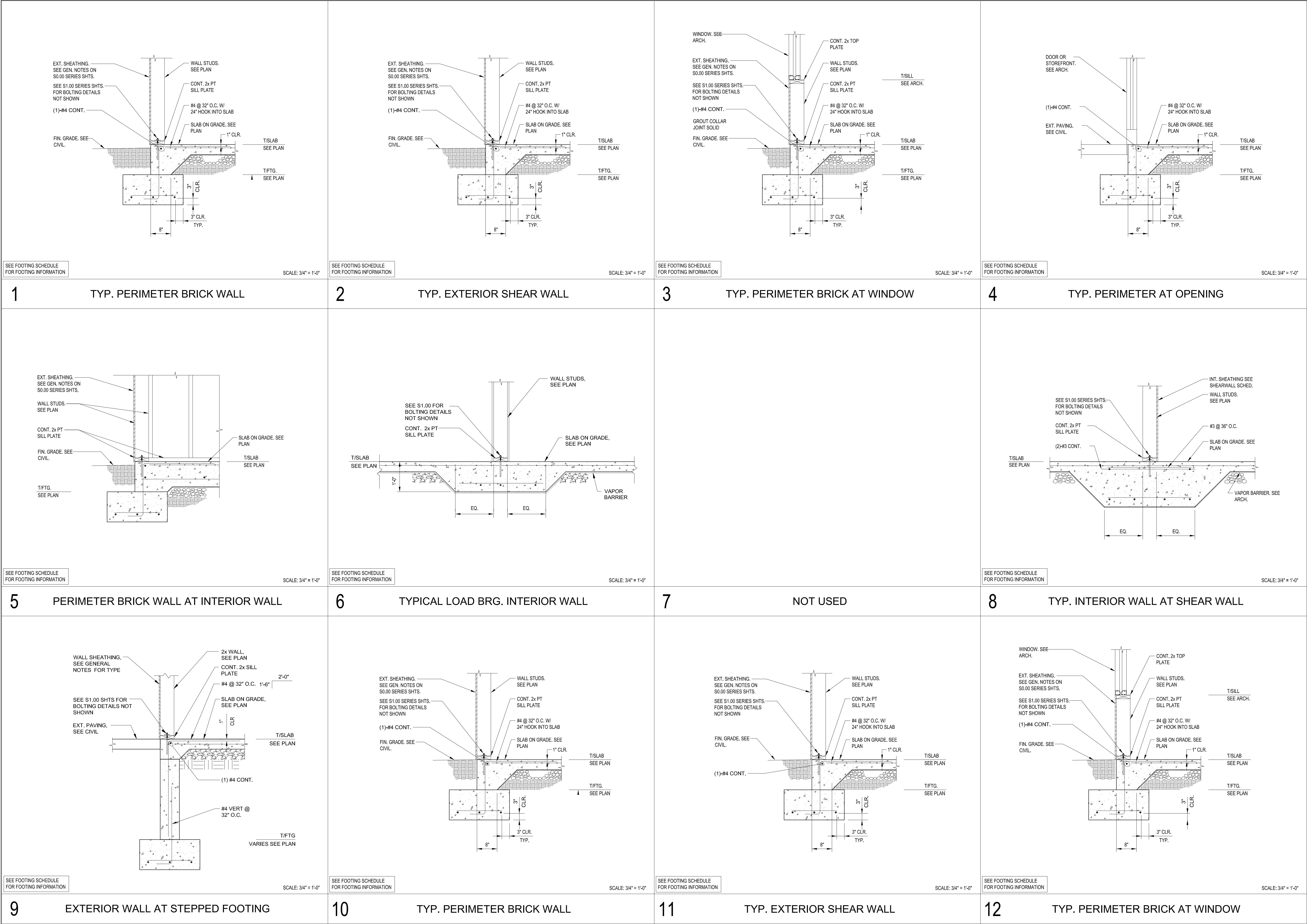
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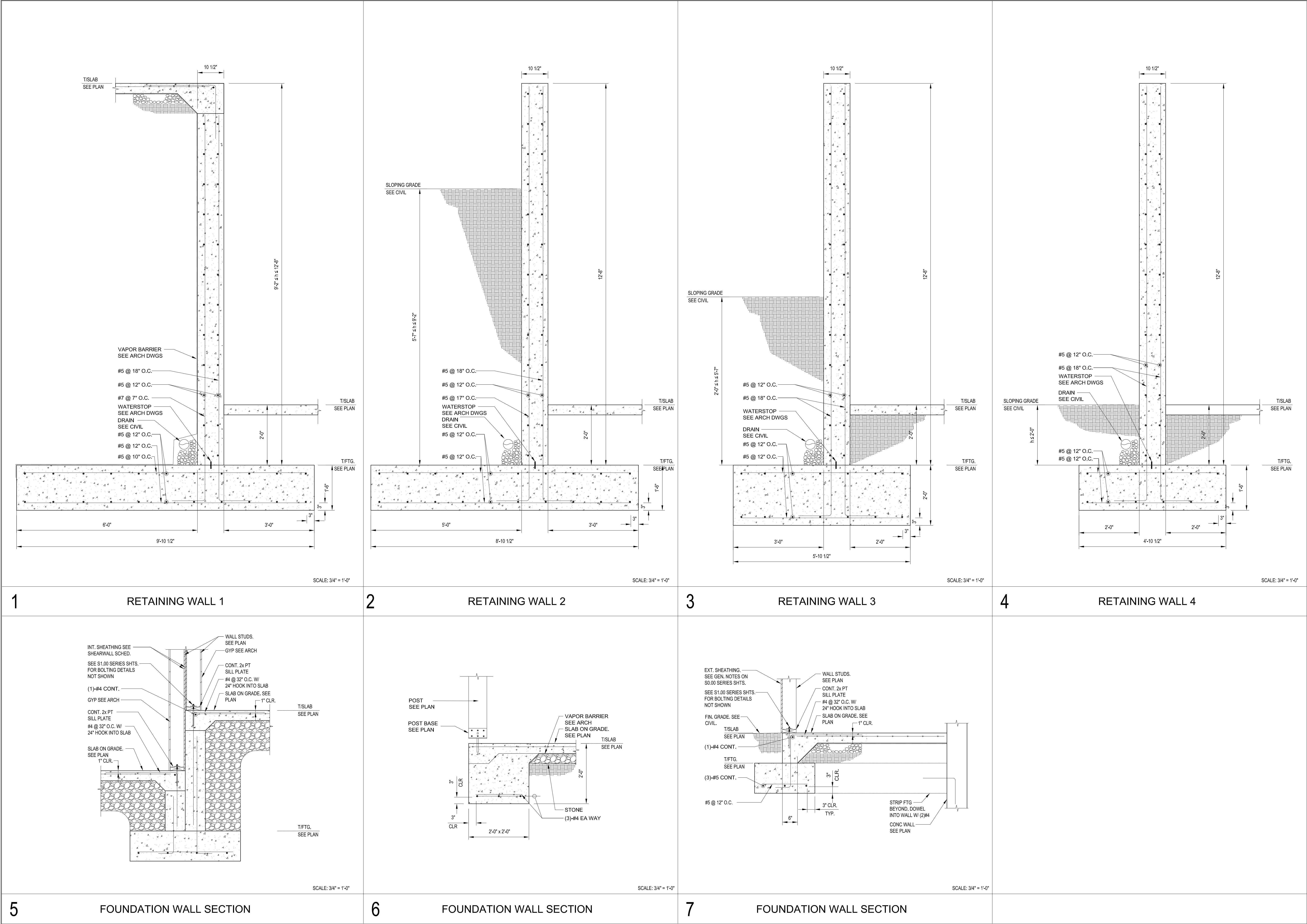
DWG DESCRIPTION:

BUILDINGS 1 & 5
ROOF FRAMING PLAN

SHEET #:

S-2.05





JDH

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NORTH CAROLINA

PROFESSIONAL SEAL

28481

JOSEPH D. HENDERSON

06.13.2025

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The orchards at Naples Road, LLC
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Hendersonville, NC 28792
Luis Graef, President

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The Orchards at Naples Road
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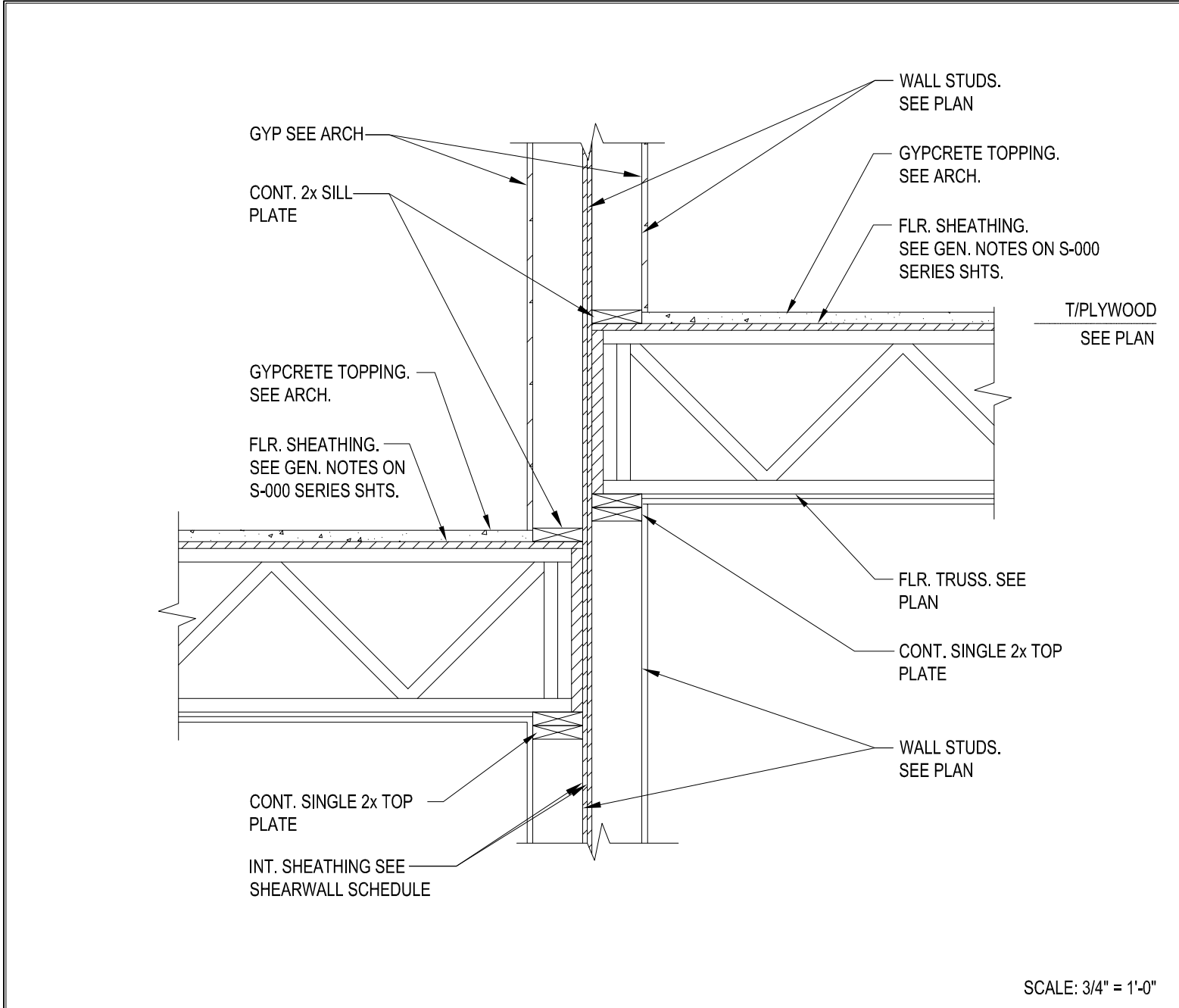
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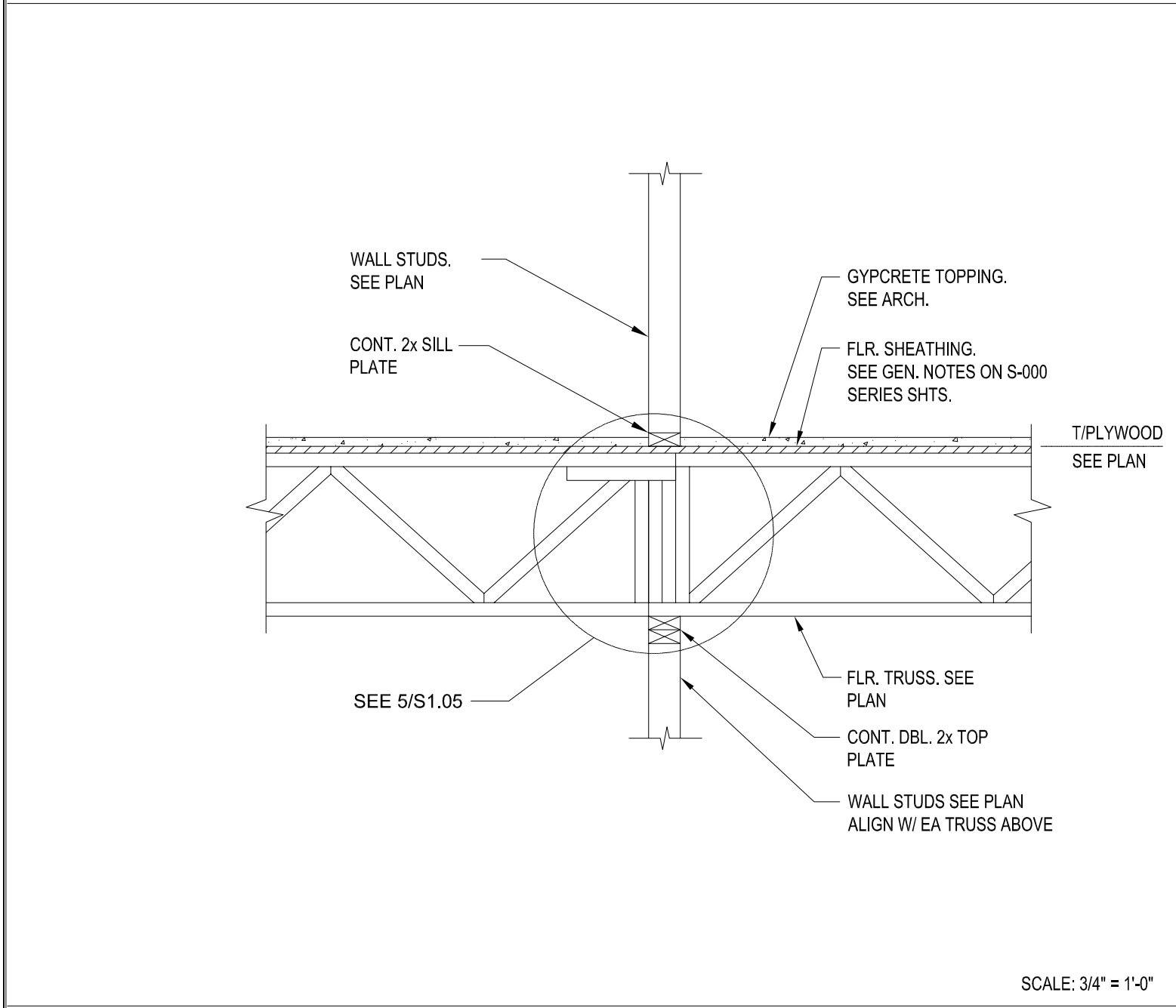
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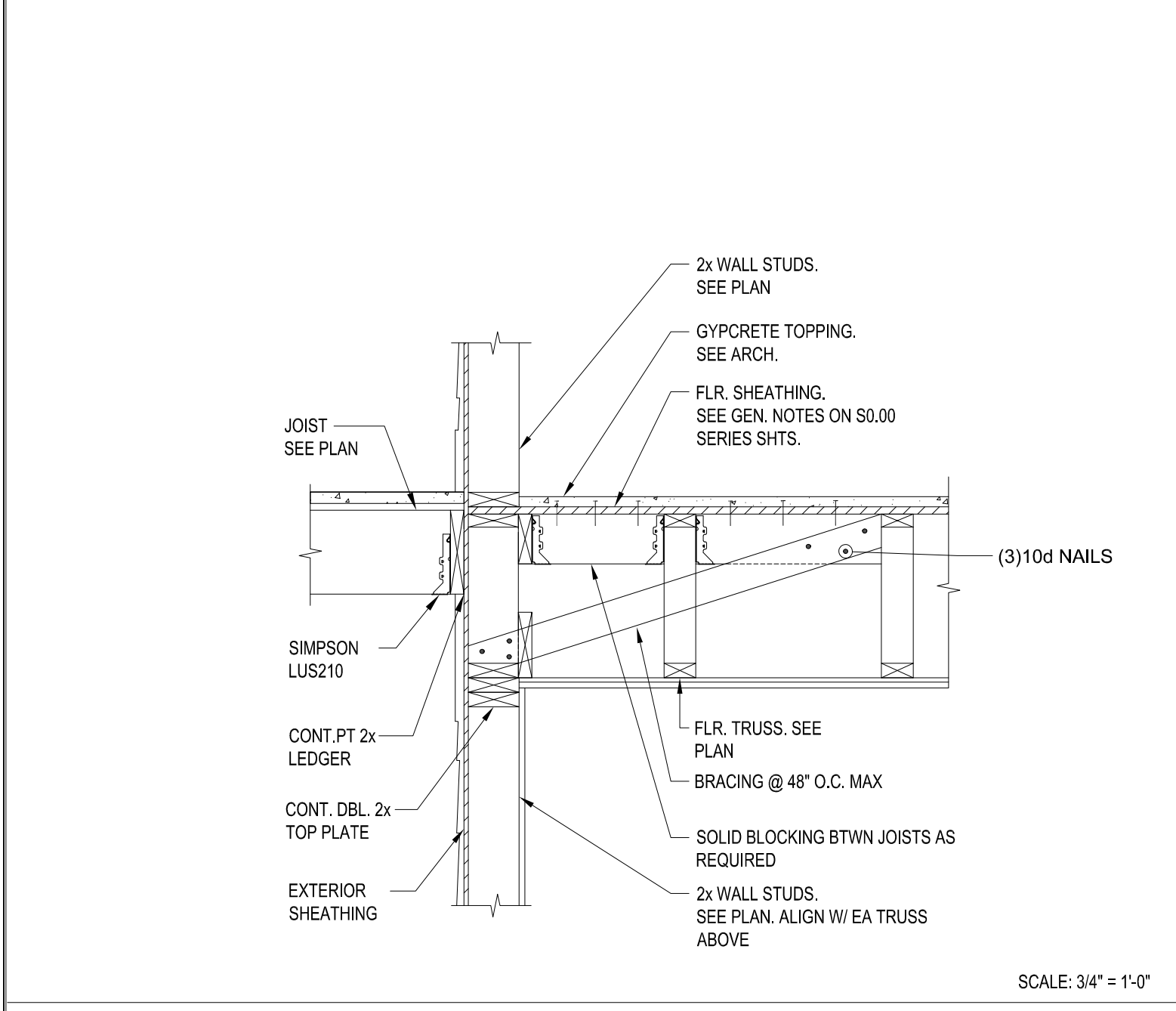
SHEET #:
S-3.01



1 TYP. LOAD BRG. DEMISING WALLS



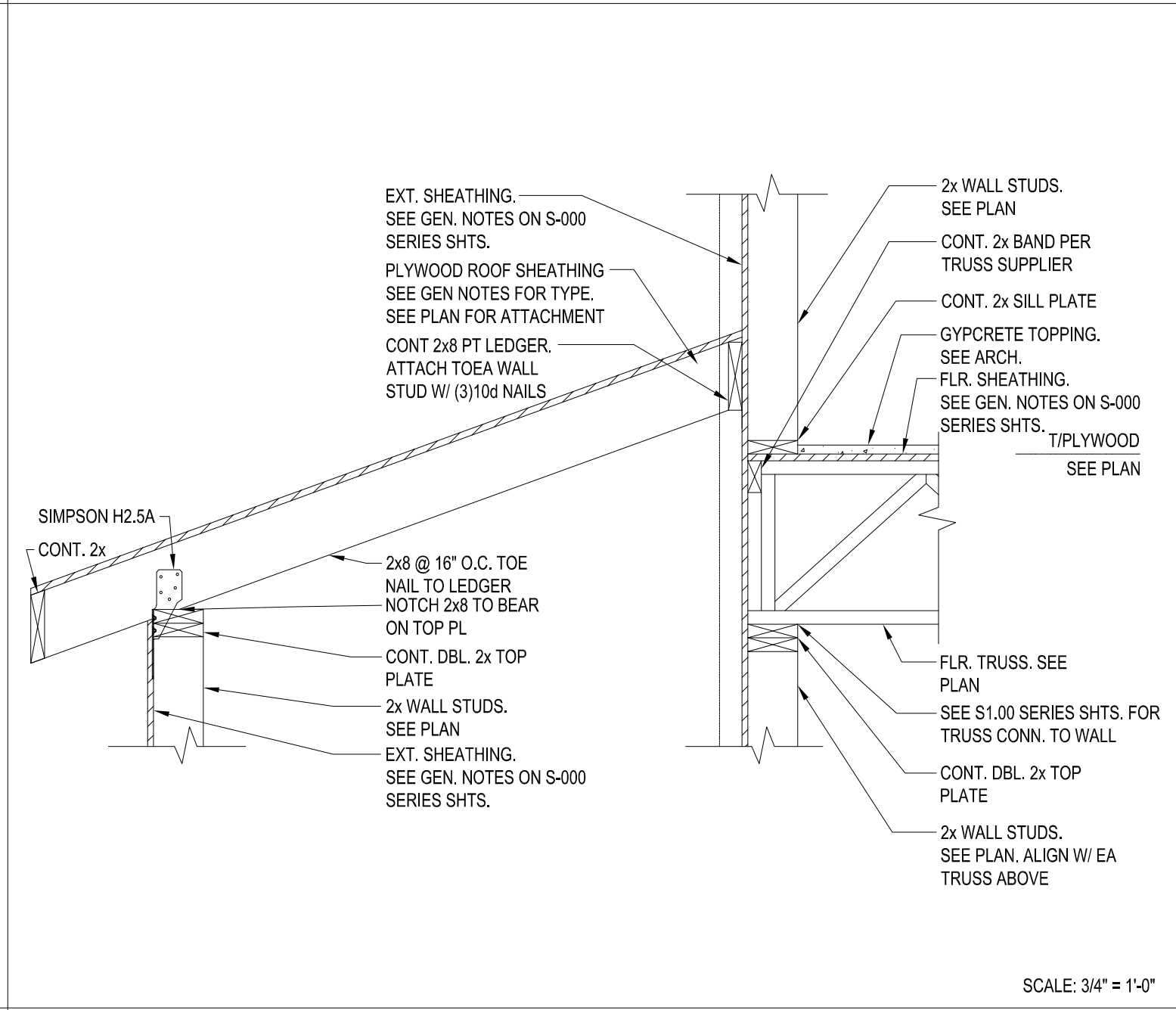
5 TYP. INTERIOR LOAD BRG. WALLS



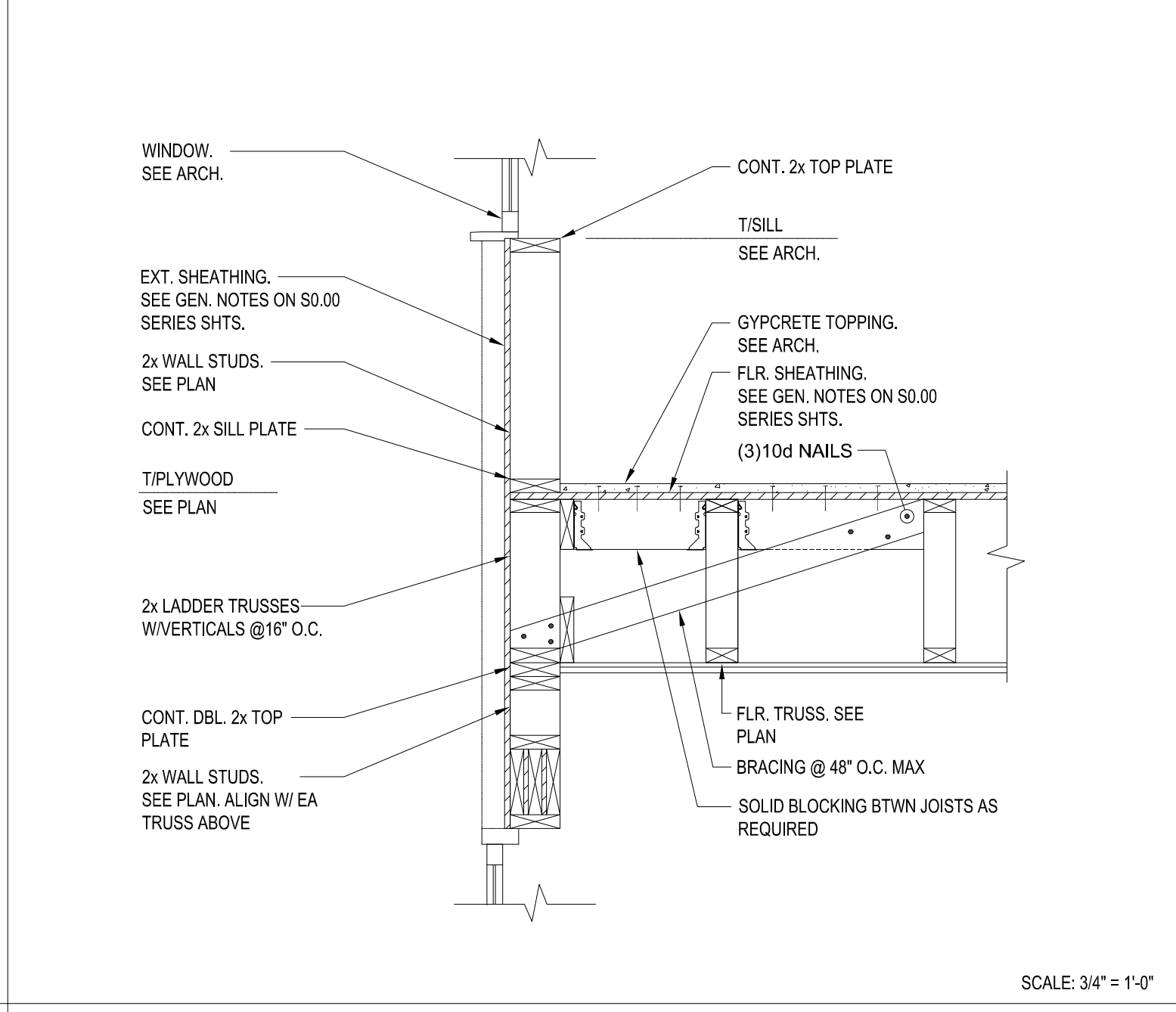
9 BALCONY SECTION



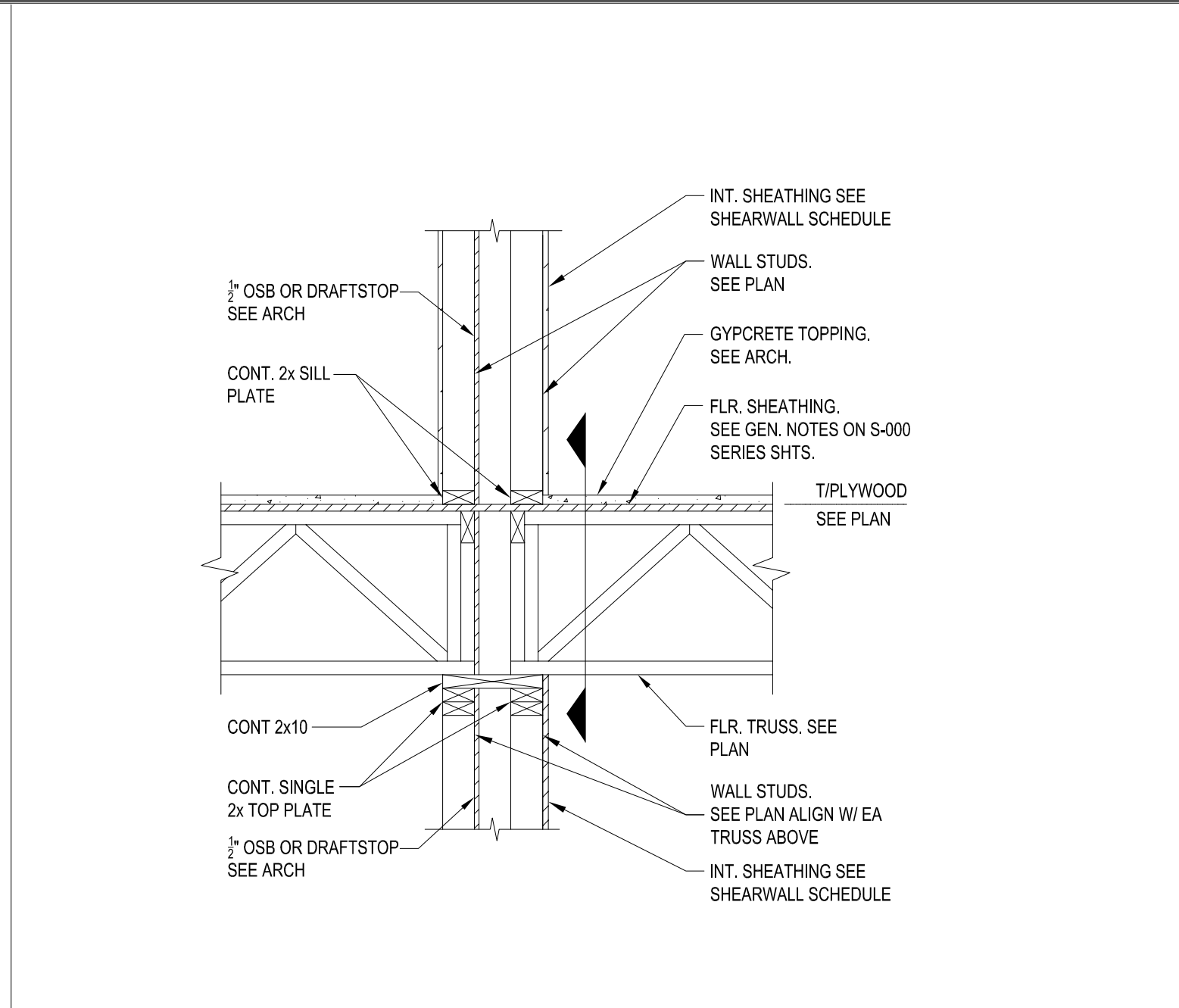
6 PERIMETER WALL AT MECH ROOM



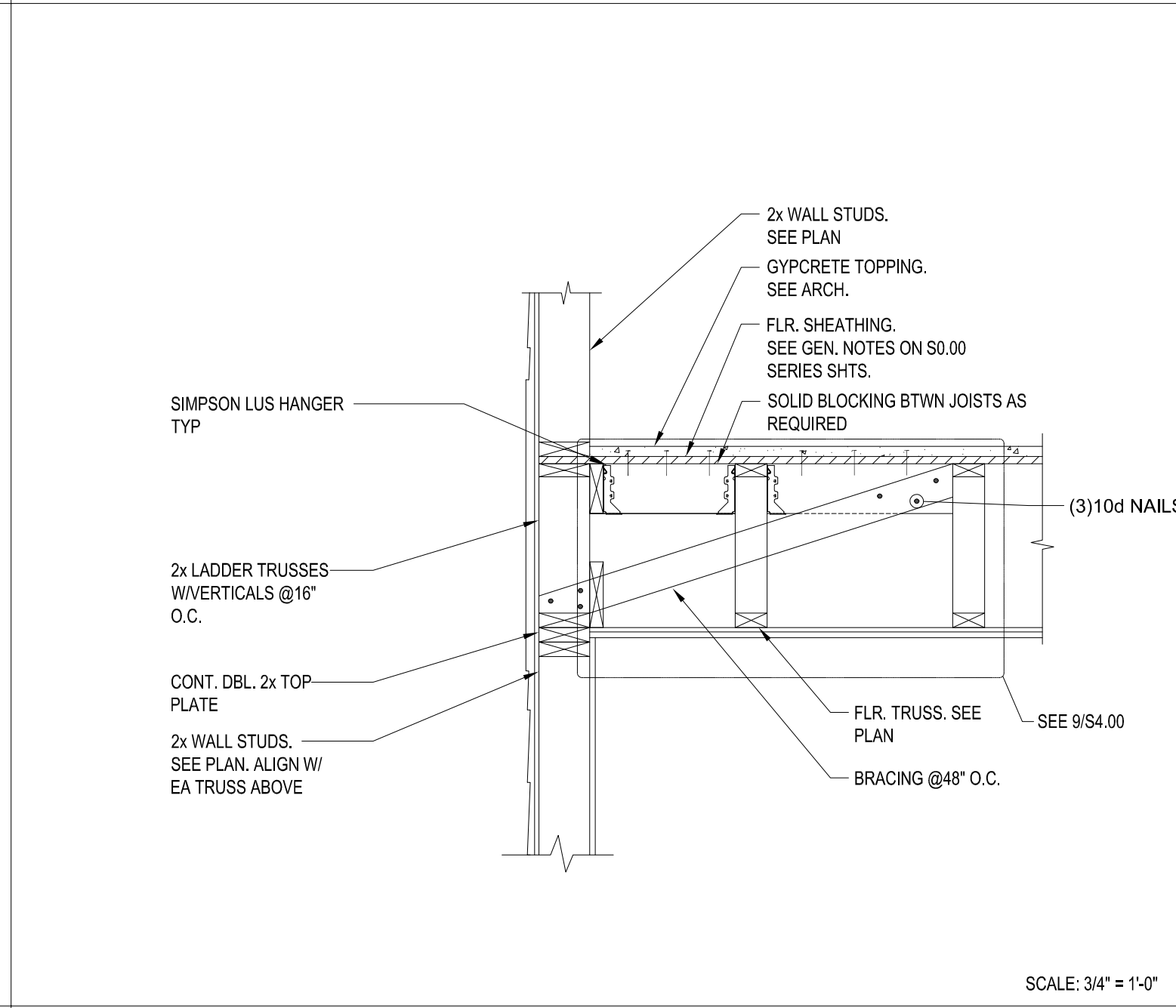
10 PERIMETER WALL



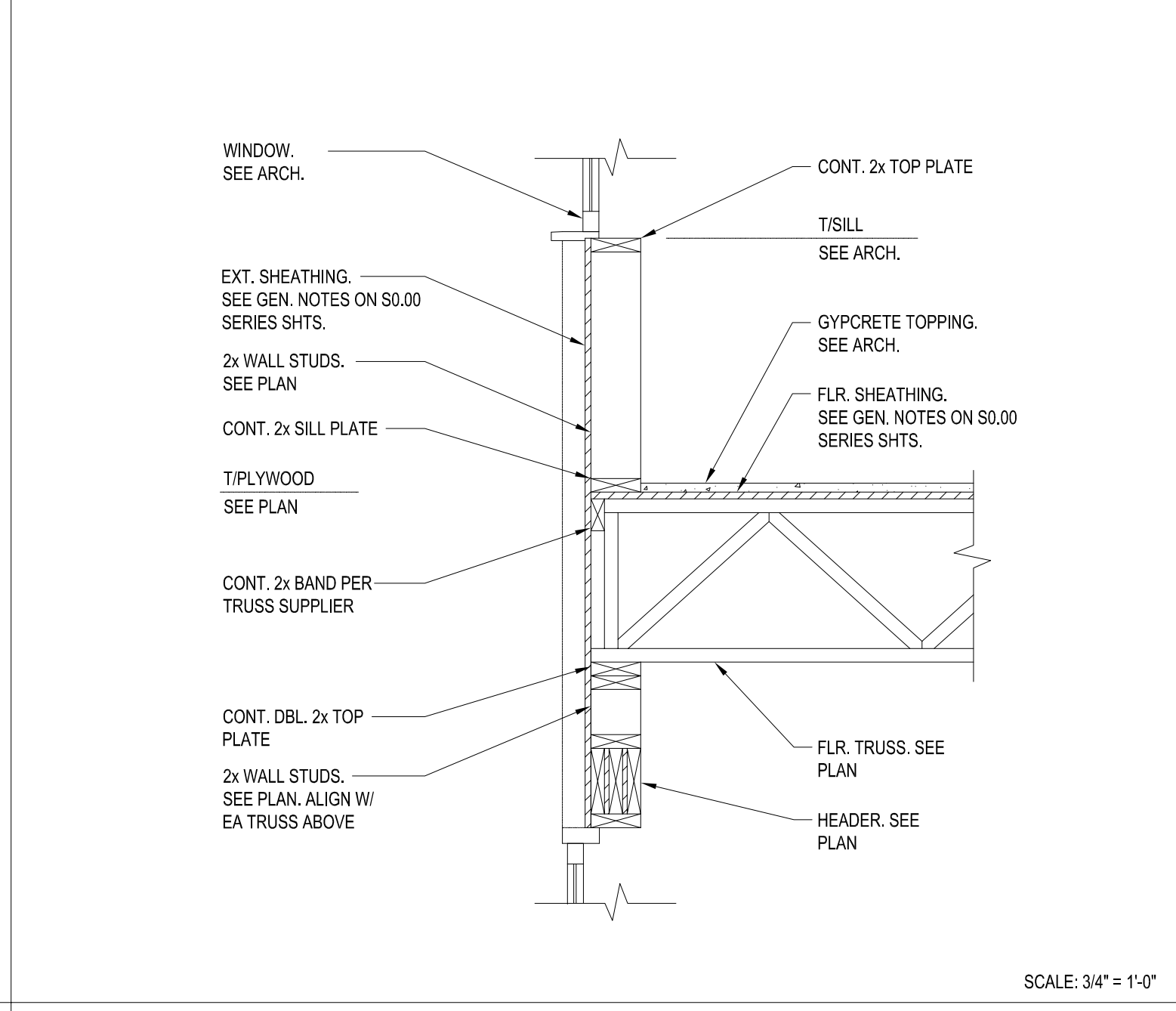
11 PERIMETER WALL



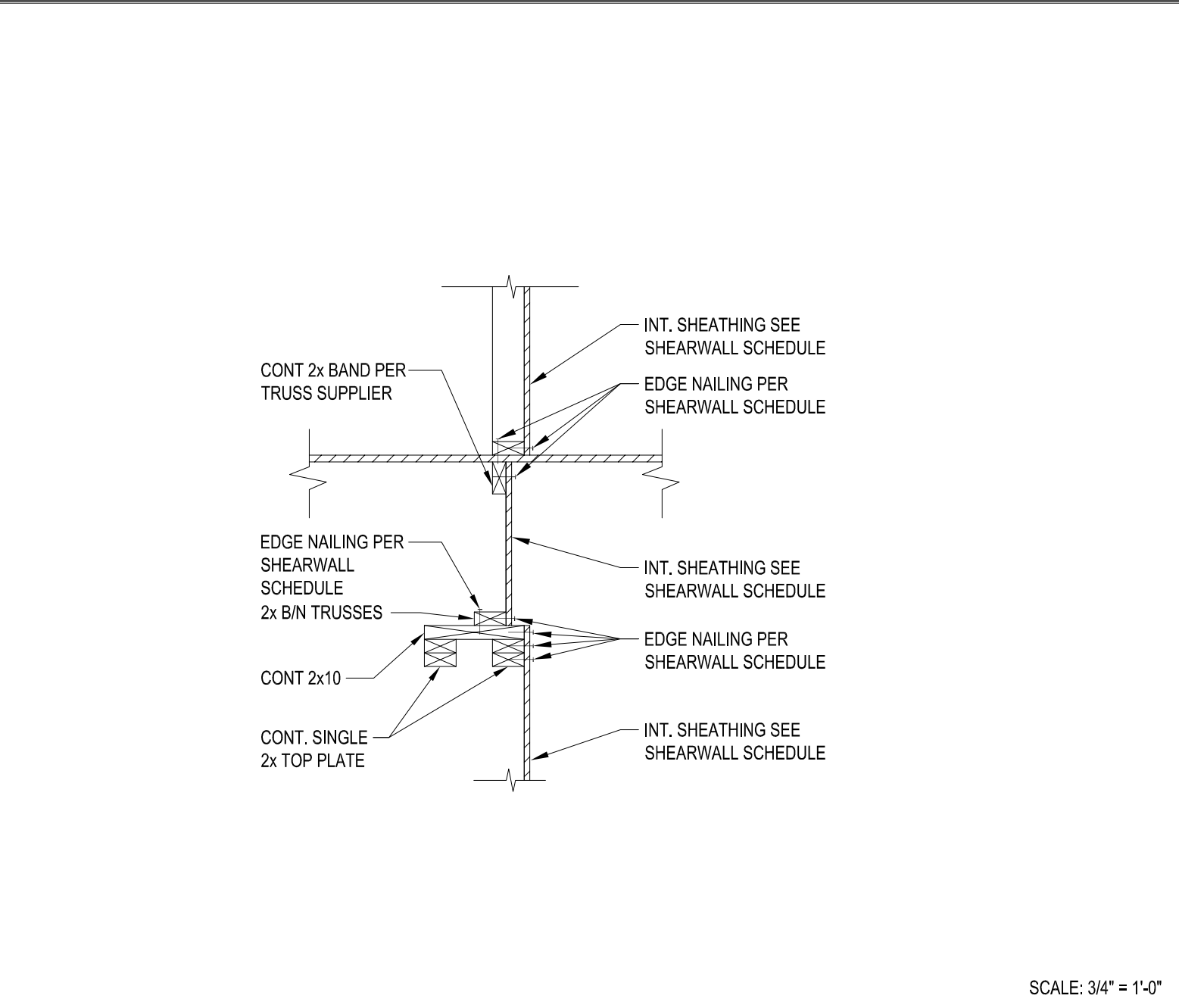
3 TYP. LOAD BRG. DEMISING WALLS



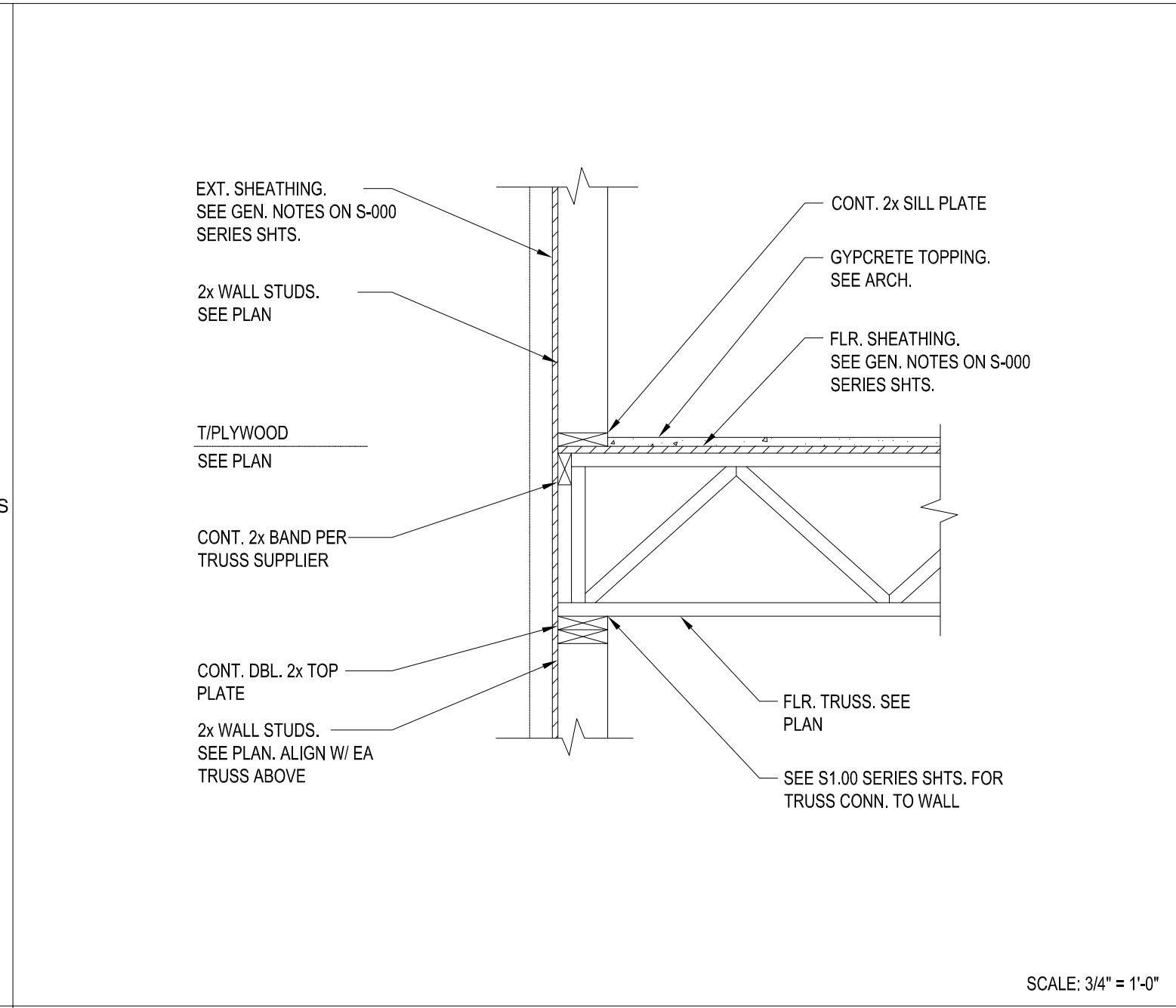
7 PERIMETER WALL



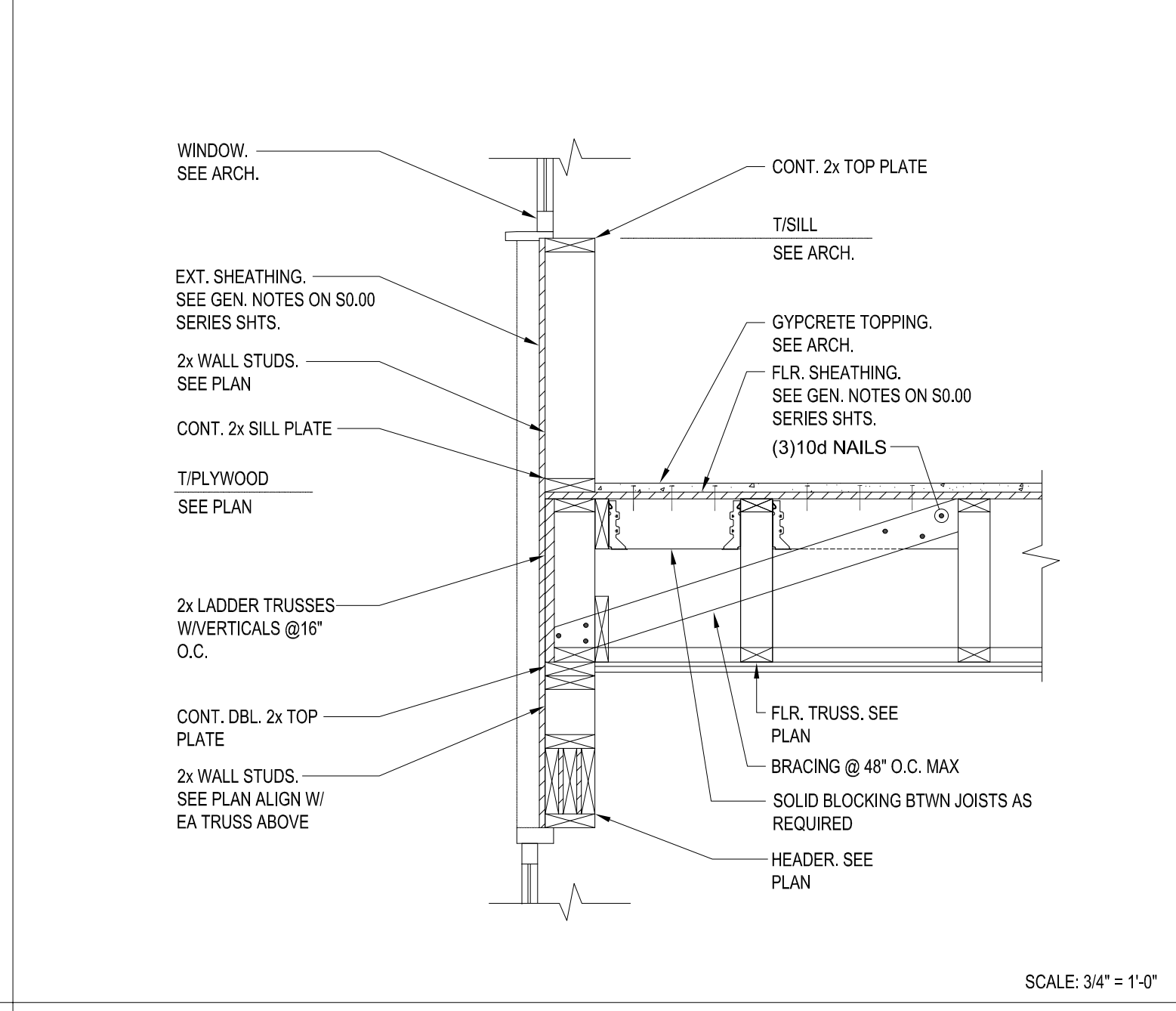
11 PERIMETER WALL



8 PERIMETER WALL



12 PERIMETER WALL AT WINDOW



12 PERIMETER WALL AT WINDOW

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Hendersonville, NC 28792
Luis Graef: President

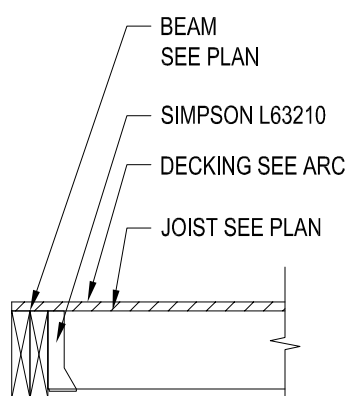
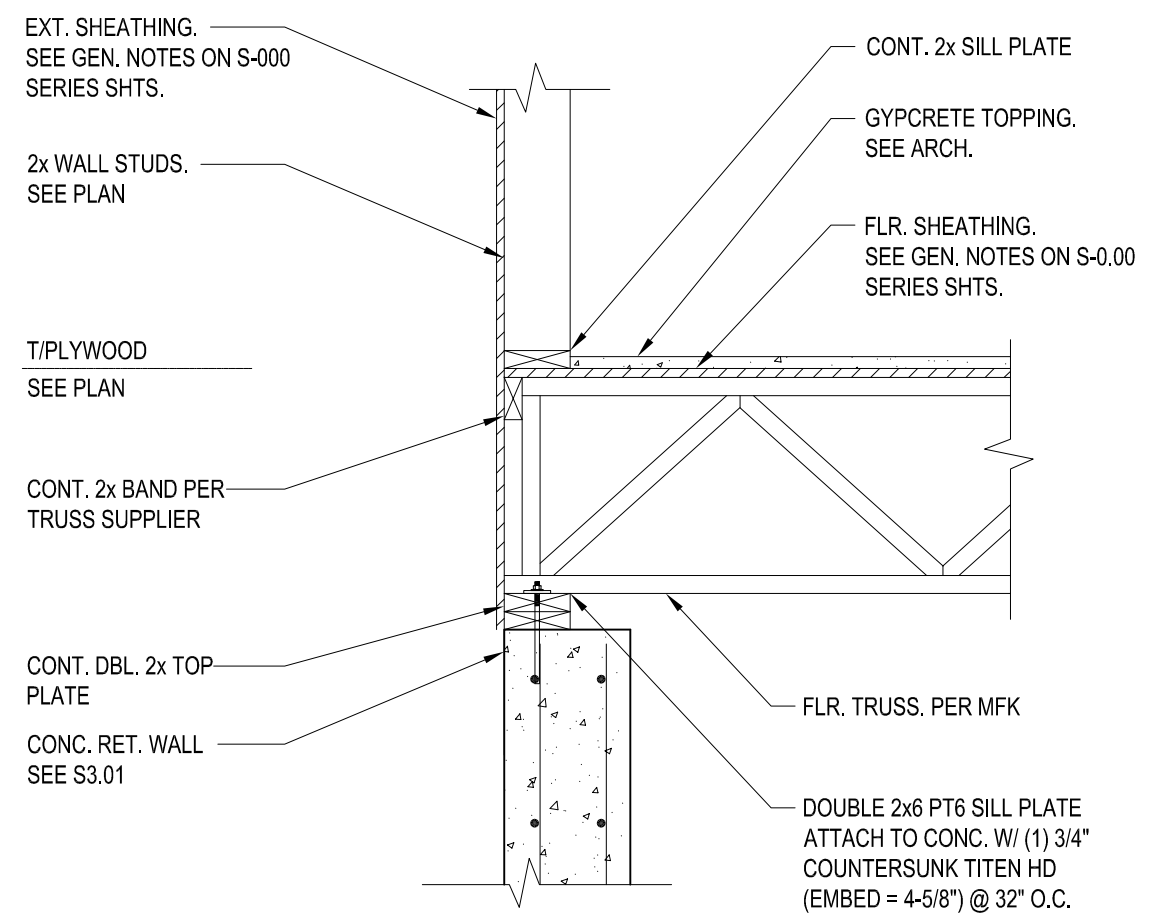
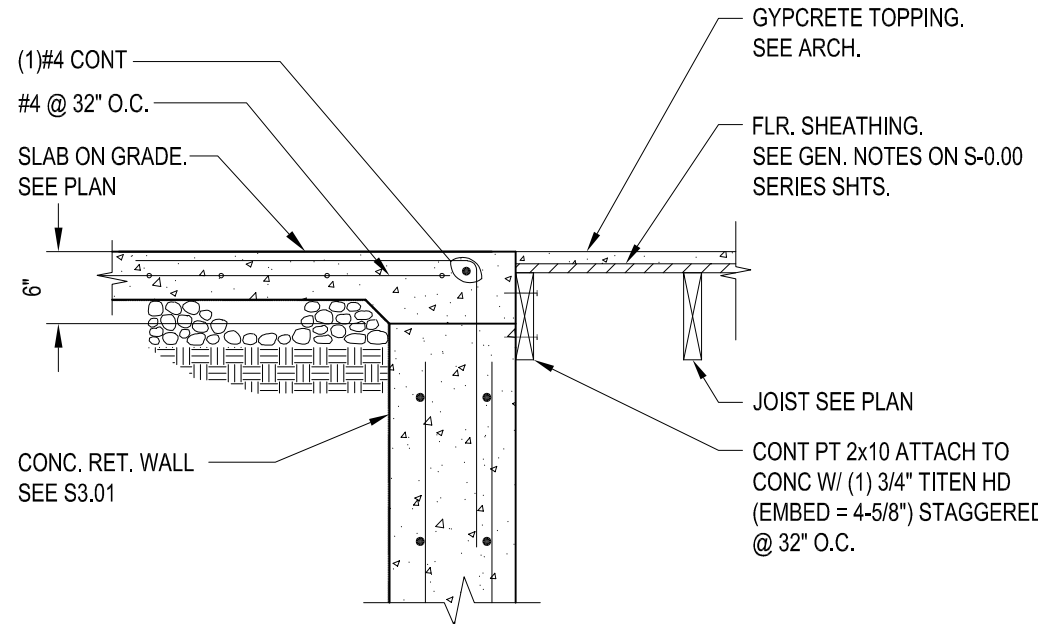
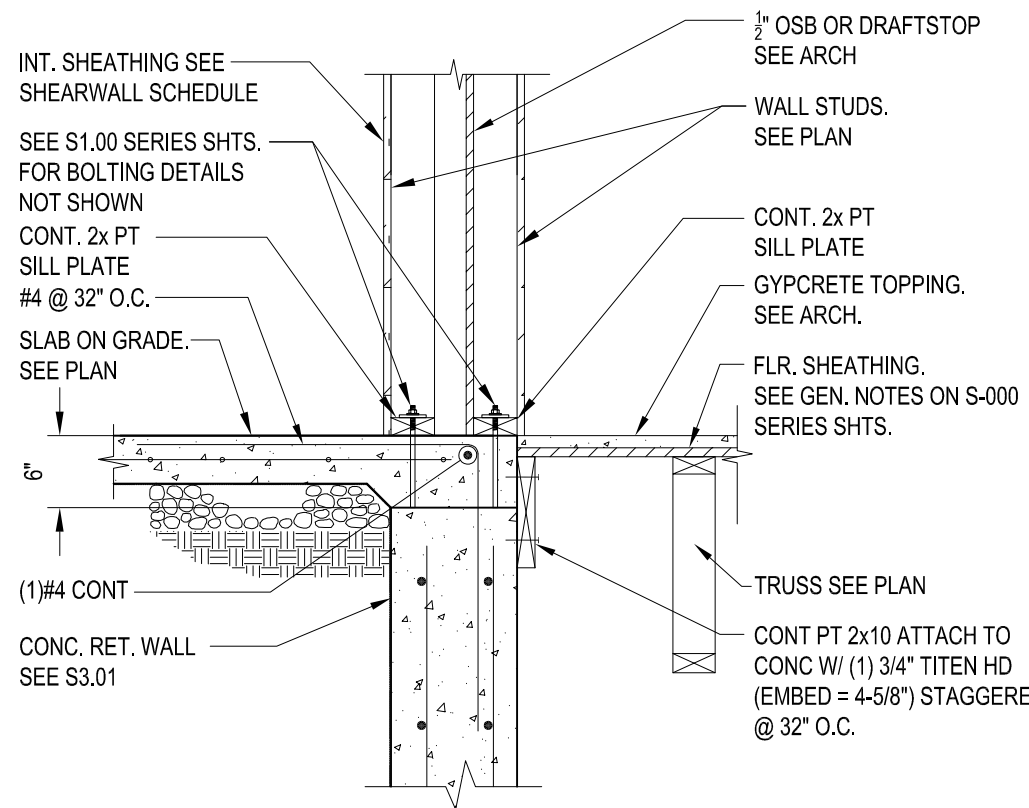
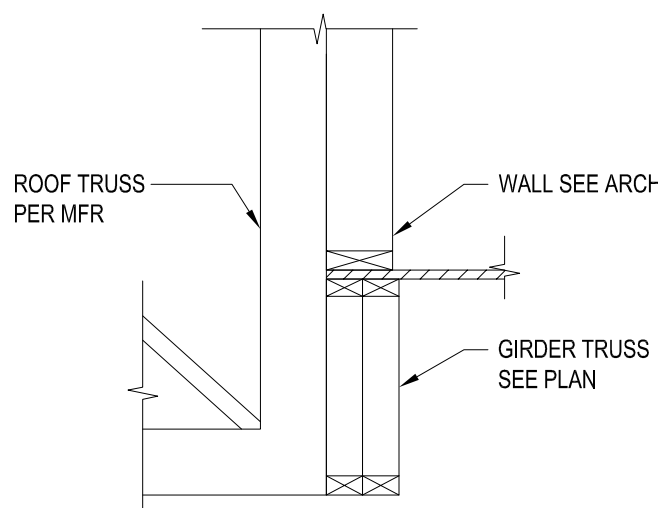
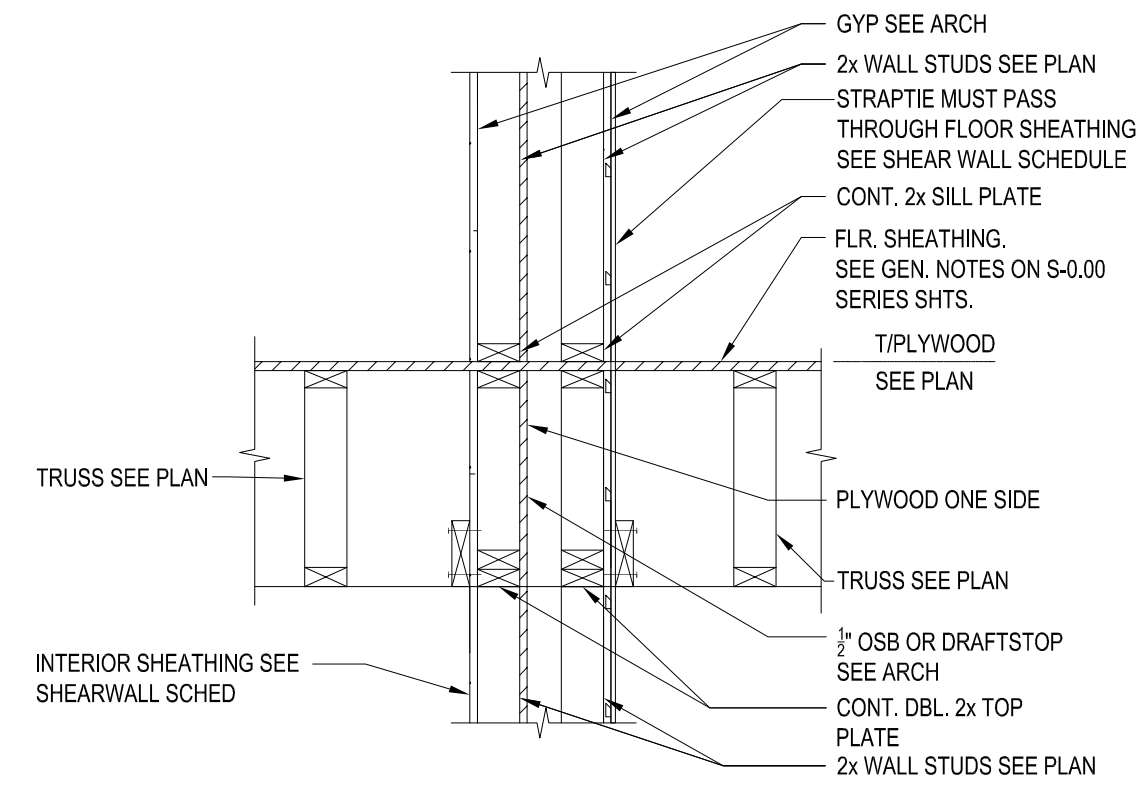
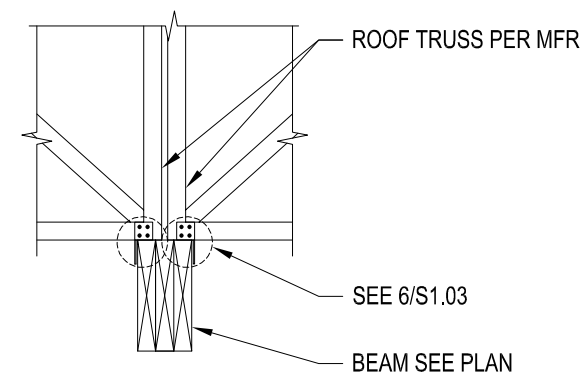
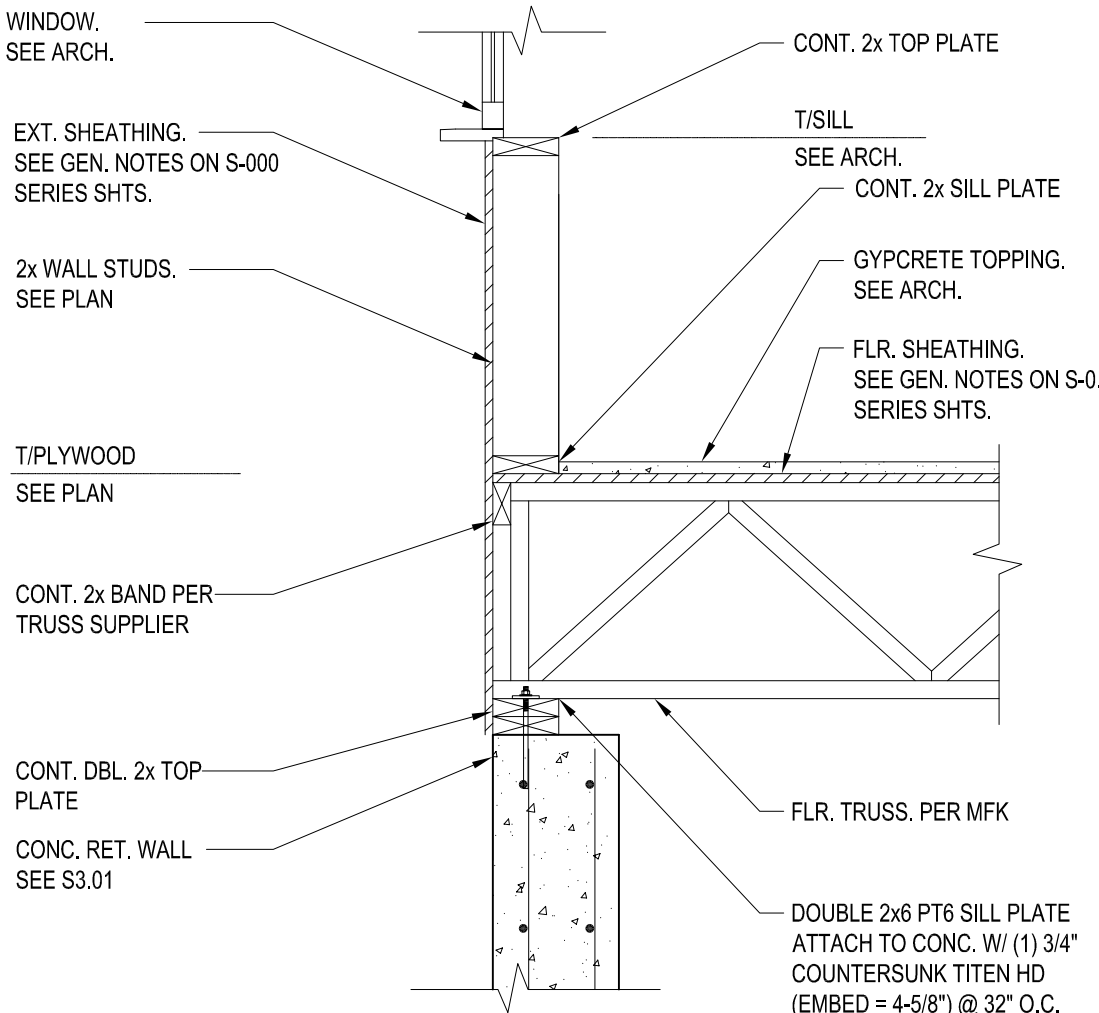
PROJECT:
The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO :
ISSUE DATE: 09/27/24
PROJECT #: 22105
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DWG DESCRIPTION :
FLOOR FRAMING
SECTIONS

SHEET #:
S-4.00

 <p>BEAM SEE PLAN</p> <p>SIMPSON L63210</p> <p>DECKING SEE ARCH</p> <p>JOIST SEE PLAN</p> <p>SCALE: 3/4" = 1'-0"</p>	 <p>EXT. SHEATHING. SEE GEN. NOTES ON S-000 SERIES SHTS.</p> <p>2x WALL STUDS. SEE PLAN</p> <p>T/PLYWOOD SEE PLAN</p> <p>CONT. 2x BAND PER TRUSS SUPPLIER</p> <p>CONT. DBL. 2x TOP PLATE</p> <p>CONC. RET. WALL SEE S3.01</p> <p>CONT. 2x SILL PLATE</p> <p>GYPCRETE TOPPING. SEE ARCH.</p> <p>FLR. SHEATHING. SEE GEN. NOTES ON S-0.00 SERIES SHTS.</p> <p>FLR. TRUSS. PER MFK</p> <p>DOUBLE 2x6 PT6 SILL PLATE ATTACH TO CONC. W/ (1) 3/4" COUNTERSUNK TITEN HD (EMBED = 4-5/8") @ 32" O.C.</p> <p>SCALE: 3/4" = 1'-0"</p>	 <p>(1)#4 CONT. #4 @ 32" O.C.</p> <p>SLAB ON GRADE. SEE PLAN</p> <p>GYPCRETE TOPPING. SEE ARCH.</p> <p>FLR. SHEATHING. SEE GEN. NOTES ON S-0.00 SERIES SHTS.</p> <p>JOIST SEE PLAN</p> <p>CONC. RET. WALL SEE S3.01</p> <p>CONT PT 2x10 ATTACH TO CONC W/ (1) 3/4" TITEN HD (EMBED = 4-5/8") STAGGERED @ 32" O.C.</p> <p>SCALE: 3/4" = 1'-0"</p>	 <p>INT. SHEATHING SEE SHEARWALL SCHEDULE</p> <p>SEE S1.00 SERIES SHTS. FOR BOLTING DETAILS NOT SHOWN</p> <p>CONT. 2x PT SILL PLATE #4 @ 32" O.C.</p> <p>SLAB ON GRADE. SEE PLAN</p> <p>1/2" OSB OR DRAFTSTOP SEE ARCH</p> <p>WALL STUDS. SEE PLAN</p> <p>CONT. 2x PT SILL PLATE</p> <p>GYPCRETE TOPPING. SEE ARCH.</p> <p>FLR. SHEATHING. SEE GEN. NOTES ON S-000 SERIES SHTS.</p> <p>TRUSS SEE PLAN</p> <p>CONT PT 2x10 ATTACH TO CONC W/ (1) 3/4" TITEN HD (EMBED = 4-5/8") STAGGERED @ 32" O.C.</p> <p>(1)#4 CONT. CONC. RET. WALL SEE S3.01</p> <p>SCALE: 3/4" = 1'-0"</p>				
1	TYPICAL DECK FRAMING	2	SECTION	3	SECTION	4	SECTION
 <p>ROOF TRUSS PER MFR</p> <p>WALL SEE ARCH</p> <p>GIRDER TRUSS SEE PLAN</p> <p>SCALE: 3/4" = 1'-0"</p>	 <p>GYP SEE ARCH</p> <p>2x WALL STUDS SEE PLAN</p> <p>STRAP/TIE MUST PASS THROUGH FLOOR SHEATHING SEE SHEAR WALL SCHEDULE</p> <p>CONT. 2x SILL PLATE</p> <p>FLR. SHEATHING. SEE GEN. NOTES ON S-0.00 SERIES SHTS.</p> <p>T/PLYWOOD SEE PLAN</p> <p>PLYWOOD ONE SIDE</p> <p>TRUSS SEE PLAN</p> <p>TRUSS SEE PLAN</p> <p>1/2" OSB OR DRAFTSTOP SEE ARCH</p> <p>CONT. DBL. 2x TOP PLATE</p> <p>2x WALL STUDS SEE PLAN</p> <p>INTERIOR SHEATHING SEE SHEARWALL SCHED</p> <p>SCALE: 3/4" = 1'-0"</p>		 <p>ROOF TRUSS PER MFR</p> <p>SEE 6/S1.03</p> <p>BEAM SEE PLAN</p> <p>SCALE: 3/4" = 1'-0"</p>				
5	FRAMING SECTION	6	SECTION	7	NOT USED	8	FRAMING SECTION
 <p>WINDOW. SEE ARCH.</p> <p>EXT. SHEATHING. SEE GEN. NOTES ON S-000 SERIES SHTS.</p> <p>2x WALL STUDS. SEE PLAN</p> <p>T/PLYWOOD SEE PLAN</p> <p>CONT. 2x BAND PER TRUSS SUPPLIER</p> <p>CONT. DBL. 2x TOP PLATE</p> <p>CONC. RET. WALL SEE S3.01</p> <p>CONT. 2x TOP PLATE</p> <p>T/SILL SEE ARCH.</p> <p>CONT. 2x SILL PLATE</p> <p>GYPCRETE TOPPING. SEE ARCH.</p> <p>FLR. SHEATHING. SEE GEN. NOTES ON S-0.00 SERIES SHTS.</p> <p>FLR. TRUSS. PER MFK</p> <p>DOUBLE 2x6 PT6 SILL PLATE ATTACH TO CONC. W/ (1) 3/4" COUNTERSUNK TITEN HD (EMBED = 4-5/8") @ 32" O.C.</p> <p>SCALE: 3/4" = 1'-0"</p>							
9	SECTION						

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NC CERTIFICATE OF LICENSE # P-1593

NORTH CAROLINA
PROFESSIONAL
ENGINEER

SEAL
28481



D. HERMAN
06.13.2025

SIGNATURE:

CLIENT:

The orchards at Naples Road, LLC
341 N main Street
Hendersonville, NC 28792
Luis Graef: President



PROJECT:

The Orchards at Naples Road
Apartment Complex
Hendersonville, North Carolina

#	REVISIONS	DATE

DWG INFO :

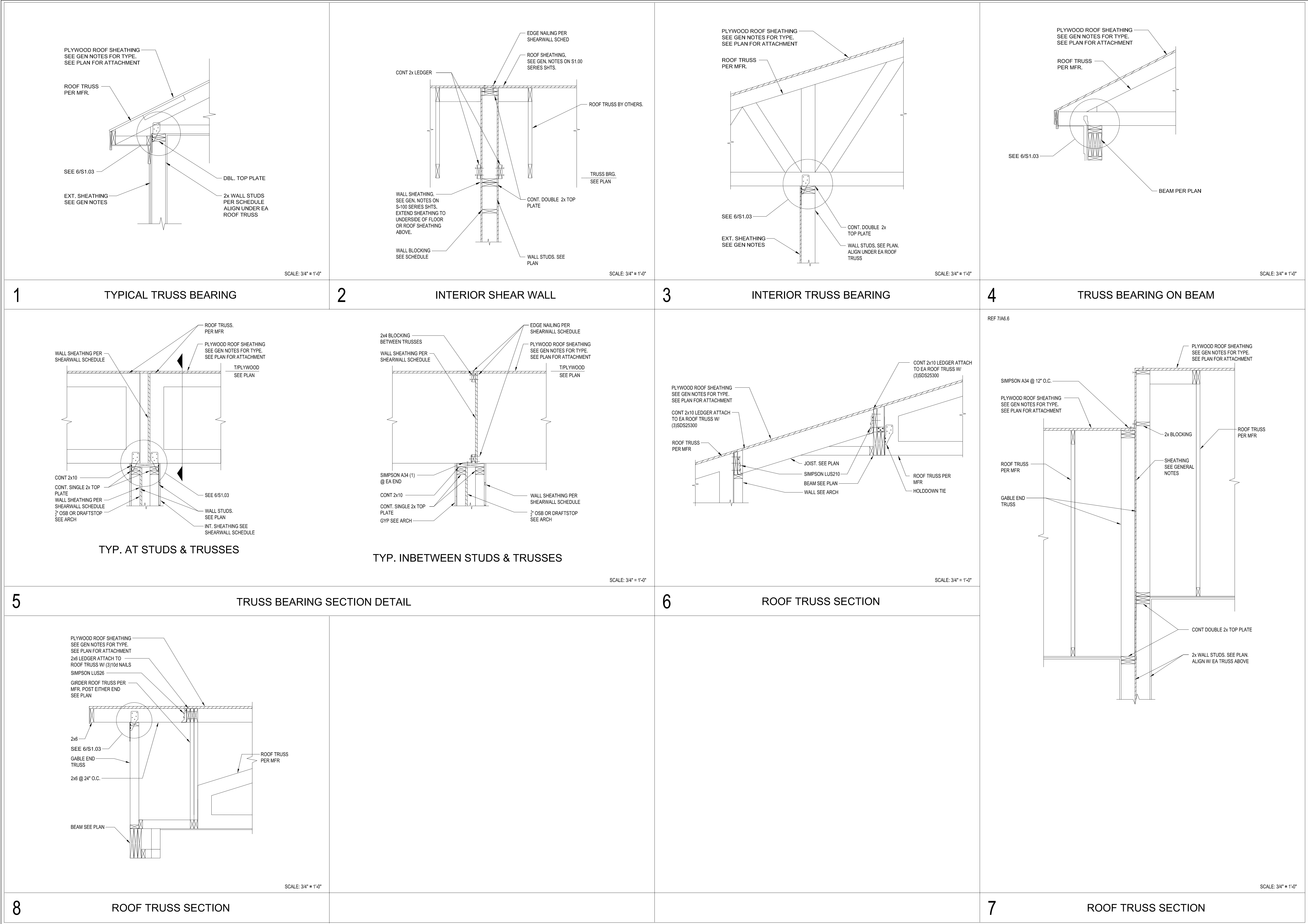
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DWG DESCRIPTION :

FLOOR FRAMING
SECTIONS

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ROOF FRAMING
SECTIONS

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S-5.00