# HEITER RESIDENCE FOUNDATION ENGINEERING 29550 CO RD 14D STEAMBOAT SPRINGS, CO 80487

# AERIAL PHOTO



# VICINITY MAP



# MARTIN/MARTIN PROJECT NO. 21.0119.S.01 100% CONSTRUCTION DOCUMENTS 5/27/2022

**CONSULTANT** 



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**OWNER'S REPRESENTATIVE** EMPIRE WEST HOLDINGS, LLC

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# **DRAWING INDEX**

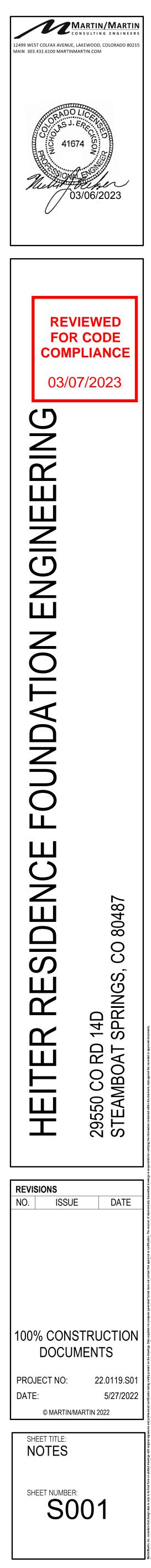
SHEET NUMBER	SHEET TITLE
S001	NOTES
S002	NOTES
S100	FLOOR PLANS
S101	GARAGE FOUNDATION
S200	ELEVATIONS
S300	DETAILS
S301	DETAILS
S302	DETAILS



		SYMBOLS	LEGEND		
F	SYMBOL	DESCRIPTION	<u>SYMBOL</u>	DESCRIPTION	<u>1) CO</u>
	-	GRID LINES		CAST-IN-PLACE CONCRETE	1A) GEN - INTE
		- SECTION OR	<u>SYMBOL</u>	OVERFRAMING DESCRIPTION	1B)LOA - ASC
	XXXX	DETAIL CUT — SHEET NUMBER		SLAB TYPE SLAB THICKNESS	DRAWI
	X	- ELEVATION CUT	SOGXXA ~ XXX'-XX" ~	TYPE T/SLAB	USING 1C) CON
	XX-	- SHEET NUMBER	F1	FTG MARK (SF = <b>S</b> TRIP <b>F</b> TG) T/FTG EL	- ACI - ACI
	• XXX'-XX"	ELEVATION CALLOUT	<u>CXX</u> - BP-X -	COLUMN SIZE OR MARK BASE PLATE TYPE	1D)STE - ANS
	$\bigwedge$	DRAWING REVISION	EP1	EMBED PLATE, SEE [ ]	1E) WO
	$\frown$	NUMBER CURRENT REVISION CLOUD	YW1	WALLS, Y = ( <b>F</b> )ND, ( <b>C</b> )IP CONC, ( <b>P</b> )RECAST, ( <b>M</b> )AS, ( <b>R</b> )ETAINING,	SUPPLE
		WELDED-WIRE REINFORCEMENT		CIP CONC ( <b>S</b> )HEARWALL	<u>2) SEIS</u> - SEIS - RISI
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ROUGHENED SURFACE, INTENTIONALLY ROUGHEN TO 1/4" AMPLITUDE, UNO	STEEL BEAM	BEAM SIZE [XX] c=X" XXk (XXX'-XX")	- EAR - MAF - MAF - DES
		SERVICE LOAD PROVIDED FOR SPECIALTY DESIGNER	ULTIMATE BM R USING LRFD LO COMBINATIONS	AD EL OF T/STEEL	- DES - SOII - BAS DETAIL
		STEP			SEISMIC - STR
		SLOPE			WALLS - RES
	1	KEY NOTE			- SEIS - SYS - DES
		SUBGRADE			- DES - SEIS
		FORM SAVER			<u>3) WIN</u>
	NOTES: 1. ITEMS NOT DESIGNE 2. ITEMS INCLUDE:	ED BY M/M ARE SHOWN HALFTONED,			- RISI - BAS - BAS
	- EXISTING CONSTR	RUCTION PECIFIED ITEMS (STAIRS, RAILINGS, ETC	)		- EXP - INTE
╞		FOUNDATION NO	,		<u>4) DES</u>
ł	1) DESIGN CRITERIA:				4A) LIST CALCUI
		PORT PREPARED BY NORTHWEST COLO R THE FOUNDATION DESIGN FOR THE PF		INC, DATED 3/24/2009	4B) PRE
	<ul><li>MINIMUM DEAD LOAD</li><li>ULTIMATE COEFFICIE</li></ul>	RITERIA: AD BEARING PRESSURE = 3000 PSF D BEARING PRESSURE = 600 PSF ENT OF FRICTION TO RESIST LATERAL LO DTTOM OF FOUNDATION = 48 IN	0ADS = 0.4		4c) COM - WAI WAI WAI WAI WAI
	3) BASEMENT RETAININ				<u>5) LAT</u>
	3A) EQUIVALENT FLUID P - "ACTIVE" CONDITION	PRESSURES USED FOR WALL DESIGN: = 35 PCF			- ORI DECK S
	<ul> <li>"AT REST" CONDITION</li> <li>"PASSIVE" CONDITION</li> <li>LATERAL PRESSURE</li> </ul>				<u>6) GR/</u> 6A) ASS
	- GROUND WATER FLU	JID PRESSURE ON SITE WALLS = 0 PSF ENT OF FRICTION TO RESIST LATERAL LC	ADS = 0.4		HOME. - LOA - LOA
			JACENT TO FOUNDATI	ON WALLS. SEE	6B) INT
	GEOTECHNICAL REPORT	I FOR REQUIREMENTS.			DEC
		DEFERRED SUBMI	TTALS		6C)DRI - GRO - SNO
	PERMIT APPLICATION. V				- SNO - THE - UNI - FLA
	1B) CONNECTION OF DEF SUPPLIER. DEFERRED S	FERRED SUBMITTAL ITEMS TO PRIMARY UBMITTAL SUPPLIER TO PROVIDE CONN EXCEEDS THE CAPACITY OF THE ELEME	ECTIONS AND FRAMIN	G ARRANGEMENT TO	7) RAII 7A) DES 7B) DES
	1C) ALL DEFERRED SUBN MOMENT CONNECTIONS	MITTALS TO BE ATTACHED TO PRIMARY TO PRIMARY STRUCTURE NOT PERMIT R IN WRITING PRIOR TO SUBMITTAL OF I	STRUCTURE WITH A PI	NNED CONNECTION. N DRAWINGS OR	<u>8) FIRI</u> 8A) FOF UNRES
	AFFROVED DI LINGINEL	IN IN WRITING FRIOR TO SUDWITTAL OF I			
	•	TION FOR ATTACHMENT OF DEFERRED S		NOTED ON DRAWINGS	
	AND ARE NOT TO BE RE-	-LOCATED OR INCREASED WITHOUT WR	TTEN APPROVAL.		
	AND ARE NOT TO BE RE- 1E) SUBMIT STAMPED ST CONCURRENTLY WITH D STRUCTURE. INCLUDE C		TTEN APPROVAL. FERRED SUBMITTAL IT ANALYSIS OF ATTACH	EMS PRIOR TO OR IMENT TO PRIMARY	
teering.rvt	AND ARE NOT TO BE RE- 1E) SUBMIT STAMPED ST CONCURRENTLY WITH D	-LOCATED OR INCREASED WITHOUT WR IRUCTURAL CALCULATIONS FOR ALL DE DRAWINGS OR PRODUCT DATA. INCLUDE	TTEN APPROVAL. FERRED SUBMITTAL IT ANALYSIS OF ATTACH	EMS PRIOR TO OR IMENT TO PRIMARY	
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ructural - Revit 2021 Projects/22.0119.S.01-Heiter Residence Foundation Engineering.rvt	AND ARE NOT TO BE RE- 1E) SUBMIT STAMPED ST CONCURRENTLY WITH D STRUCTURE. INCLUDE C	-LOCATED OR INCREASED WITHOUT WR IRUCTURAL CALCULATIONS FOR ALL DE DRAWINGS OR PRODUCT DATA. INCLUDE	TTEN APPROVAL. FERRED SUBMITTAL IT ANALYSIS OF ATTACH	EMS PRIOR TO OR IMENT TO PRIMARY	
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k FILE PATH: BIM 360://MartinMartin Structural - Revit 2021 Projects/22.0119.S.01-Heiter Residence Foundation Engineering.rvt	AND ARE NOT TO BE RE- 1E) SUBMIT STAMPED ST CONCURRENTLY WITH D STRUCTURE. INCLUDE C	-LOCATED OR INCREASED WITHOUT WR IRUCTURAL CALCULATIONS FOR ALL DE DRAWINGS OR PRODUCT DATA. INCLUDE	TTEN APPROVAL. FERRED SUBMITTAL IT ANALYSIS OF ATTACH	EMS PRIOR TO OR IMENT TO PRIMARY	
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MM JOB #: 21.0119.S.01 DESIGNERS: Enter Designer's Name Here PRINCIPAL: Nick Ereckson LEAD REVIT TECH:Enter Lead Revit Tech's Name Here EOR:Enter EOR's Name Here DATE PRINTED:3/6/2023 12:29:43 AM PROJECT MANAGER: Andrew Lack FlLE PATH: BIM 360://MartinMartin Structural - Revit 2021 Projects/22.0119.S.01-Heiter Residence Foundation Enc

DESIGN CRITERIA	GENERAL NOTES	
DEGREN GRAND STANDARDS: INERAL DESIGN	GENERAL NOTES         1) GENERAL:         1A) ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE STRUCTURAL ENGINEER OF	
FERNATIONAL BUILDING CODE 2018 WITH ROUTT COUNTY AMENDMENTS	RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.	
CE/SEI 7-16 "MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHER STRUCTURES" WHERE INDICATED ON INGS INDIVIDUAL UNFACTORED LOAD COMPONENTS (D, Di, L, Lr, R, S, H, F, Fa, E, W, Wi, T) ARE AS DEFINED AND	1B) UNDERGROUND UTILITIES: LOCATE EXISTING UTILITIES AND NOTIFY ARCHITECT OF EXISTING UTILITIES OR SUBGRADE CONDITIONS WHICH INTERFERE WITH WORK.	
RMINED BY THE BUILDING CODES AND STANDARDS INDICATED. LOAD COMPONENTS SHALL BE COMBINED THE LOAD COMBINATIONS OF THE BUILDING CODE FOR SPECIALTY DESIGN BY OTHERS.	1C) STRUCTURAL ELEMENTS ARE CENTERED ON GRID LINES AND GRID LINE INTERSECTIONS UNLESS DIMENSIONED OTHERWISE.	
NCRETE I 301-LATEST EDITION "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"	2) USE OF DRAWINGS: 2A) DO NOT SCALE DRAWINGS.	
I 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"	2B) DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.	
ISI/AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" LOAD AND RESISTANCE FACTOR DESIGN DOD ISI/AWC NDS-2018 "NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION - WITH 2018 NDS	2C) DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.	
EMENT"	2D) WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS: - CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION - THE MORE STRINGENT REQUIREMENTS SHALL GOVERN FOR BIDDING / PRICING	
ISMIC DESIGN CATEGORY = C (ROUTT COUNTY AMENDMENT) SK CATEGORY = II DTUOLAKE IMPORTANCE FACTOR IS = 1.00	3) COORDINATION:	
RTHQUAKE IMPORTANCE FACTOR, le = 1.00 APPED SPECTRAL RESPONSE ACCELERATION, Ss = 61.90 %g APPED SPECTRAL RESPONSE ACCELERATION, S1 = 10.60%g SIGN SPECTRAL RESPONSE COEFFICIENT, SDs = 0.333 (ROUTT COUNTY AMENDMENT)	3A) STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.	
SIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.133 (ROUTT COUNTY AMENDMENT) NL SITE CLASS = D (ASSUMED) SIC STRUCTURAL SYSTEM: STRUCTURAL STEEL AND WOOD BEARING WALLS SYSTEMS NOT SPECIFICALLY LED FOR SEISMIC RESISTANCE, REINFORCED CONCRETE BASEMENT WALLS NOT SPECIFICALLY DETAILED FOR	3B) COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.	
RUCTURAL SEISMIC LATERAL SYSTEM: REINFORCED CONCRETE BASEMENT WALLS. LIGHT FRAME (WOOD)	4) SUBMITTALS AND SUBSTITUTIONS: 4A) SUBMITTALS:	
S WITH STRUCUTRAL WOOD SHEAR PANELS. SINGLE FAMILY PRE-MANUFACTURED STRUCTURE BY OTHERS SPONSE MODIFICATION FACTOR, R = 6.5 ISMIC RESPONSE COEFFICIENT, Cs = 0.051 STEM OVERSTRENGTH FACTOR, OMEGA = 2.5	- <sup>(</sup> IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED BY THE ARCHITECT AND DESIGNED BY MARTIN/MARTIN, INC. PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR MAKING THE	
SIGN BASE SHEAR EAST-WEST DIRECTION = 11.6 K SIGN BASE SHEAR NORTH-SOUTH DIRECTION = 11.6 K ISMIC ANALYSIS PROCEDURE: Equivalent Lateral-Force Analysis	CHANGE CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS - ALL SHOP DRAWINGS SHALL REFERENCE THE STRUCTURAL DRAWING NUMBER AND DETAIL USED TO PREPARE THE SUBMITTAL	
ND LOADS	- SUBMIT AL - SUBMIT A STATEMENT OF RESPONSIBILITY FOR CONSTRUCTION OF THE LATERAL LOAD RESISTING SYSTEM IDENTIFIED IN THE DESIGN CRITERIA IN ACCORDANCE WITH [IBC 2018 SECTION 1704]	
SK CATEGORY = II SIC ULTIMATE WIND SPEED, Vult = 115 mph SIC NOMINAL WIND SPEED, Vasd = 89 mph	4B) SUBSTITUTIONS: ENGINEER'S APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS	
POSURE CATEGORY = C FERNAL PRESSURE COEFFICIENT, Gcpi = +/-0.18	4C)NONCONFORMANCE: NOTIFY ENGINEER OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR DESIGNING THE REPAIR.	
SIGN WIND PRESSURE FOR COMPONENTS AND CLADDING AND ELEMENTS DESIGNED BY THE CONTRACTOR STED COMPONENT AND CLADDING WIND PRESSURES ARE INCLUDED FOR REFERENCE ONLY. FINAL JLATIONS SHALL BE COMPLETED BY CONTRACTOR	4D) ALL SHOP DRAWINGS SHALL BE SUBMITTED IN ELECTRONIC FORMAT ONLY.	
ESSURES LISTED BELOW ARE ULTIMATE	5) TEMPORARY CONDITIONS, CONSTRUCTION ENGINEERING, AND OSHA STANDARDS: 5A) THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION AND ONLY FOR LOADS ANTICIPATED	
MPONENT AND CLADDING SURFACE PRESSURES (PSF) ALLS PRESSURES	DURING THE STRUCTURE'S SERVICE LIFE. 5B) THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE	
ALLS AREA       10 SF 100 SF 200 SF 500 SF         ALLS INTERIOR NEG (ZONE 4)       -23.1       -19.9       -17.7         ALLS CORNER NEG (ZONE 5)       -28.4       -22.1       -20.2       -17.7         ALLS POSITIVE ZONE 4 & 5       21.3       18.1       17.2       16.0	REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL PROVIDE ALL REQUIRED ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF WORK WHICH MAY INCLUDE. BUT IS NOT LIMITED TO:	
TERAL LOAD RESISTING SYSTEM DESCRIPTION: RDINARY REINFORCED CONCRETE FOUNDATION WALLS AND WOOD FRAMED SHEAR WALL. WOOD BRACING AT	<ul> <li>LAYOUT</li> <li>DESIGN FOR FORMWORK, SHORING, AND RESHORING</li> </ul>	
STRUCTURE.	<ul> <li>DESIGN OF CONCRETE MIXES</li> <li>ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION</li> <li>WELD PROCEDURES</li> </ul>	
RAVITY LOADS SUMED GRAVITY LOADS IMPOSED ON BASEMENT STRUCTURE FROM SINGLE FAMILY PRE-MANUFACTURED	<ul> <li>DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND, SEISMIC, OR SOIL LOADS</li> <li>SURVEYING TO VERIFY CONSTRUCTION TOLERANCES</li> <li>EVALUATION OF TEMPORARY CONSTRUCTION LOADS ON STRUCTURE DUE TO EQUIPMENT AND MATERIALS</li> </ul>	
ADING AT PERIMETER, DEAD = 290 PLF ADING AT INTERIOR BEAM, DEAD = 580 PLF	<ul> <li>STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN DRAWINGS</li> </ul>	
TERIOR RESIDENCE: LIVE LOAD = 40 PSF CK LOADING: LIVE LOAD = 60 PSF	5C) FOUNDATION WALLS SHALL NOT BE BACKFILLED UNTIL THE SLABS-ON-GRADE IN-PLACE AND REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED. USE ONLY HAND OPERATED TOOLS FOR COMPACTION ADJACENT TO FOUNDATION WALLS AND GRADE BEAMS. STEM WALLS SHALL BE BACKFILLED EVENLY ON BOTH SIDES.	
RIFTING, SLIDING AND UNBALANCED SNOW ROUND SNOW LOAD = 99 PSF	5D)NOTHING SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS. WHERE THE STRUCTURAL DRAWINGS APPEAR TO	
IOW EXPOSURE FACTOR, Ce = 1.0 IOW LOAD IMPORTANCE FACTOR, Is = 1.0 ERMAL FACTOR, Ct = 1.00	CONFLICT WITH OSHA REQUIREMENTS, THE STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY. - THE CONTRACTOR SHALL ADD ALL ERECTION FRAMING NECESSARY TO COMPLY WITH OSHA.	
IIFORM ROOF SNOW LOAD = 21.0 PSF AT ROOF SNOW LOAD = 70.0 PSF	- THE CONTRACTOR SHALL ADD ALL NECESSARY BOLTS, ANCHOR BOLTS, PLATES, STIFFENER PLATES, STABILIZER PLATES, BRIDGING, BRACING, BEARING SEATS, COLUMN SPLICES, ETC., AS WELL AS CLOSURES FOR OPENINGS.	
I <mark>IN LOADS:</mark> SIGN RAIN INTENSITY = 1.5 INCHES PER HOUR SIGN RAIN ROOF PRESSUE = 5.2 psf		
RE RESISTANCE, CONDITIONS OF RESTRAINT: IR DETERMINING FIRE-RESISTANCE RATINGS PER IBC SECTION 703, ALL STEEL FRAMING IS ASSUMED TO BE		
STRAINED.		



Transment or trans

IN THE 'STEEL BEAM	CONNECT					1) GENERA					
	CONNECT	ION SC	HEDULI	ES' AND DETAILS HEREIN.		,	RK SHALL CONFORM WITH ACI 301				
						1B) DETAIL E DETAILING N	BARS IN ACCORDANCE WITH THE MANUAL"	DRAWINGS, PROJECT SPE	ECIFICATION	S, AND ACI PU	UBLICATION SP-66 (200
			וס∩סס	RIATE AWS. QUALIFICATION TE			RCING MATERIALS: NFORCING MATERIAL TABLE'				
				S UNLESS OTHERWISE NOTEI		,	CING FABRICATION:				
				IVE REQUIRED. INCREASE W	/ELD SIZE IF	3A) SPLICES - NO SPLI	: CING OF REINFORCEMENT PERMI				
					-	- SEE 'LAF	/HERE DETAIL NOT PROVIDED. W PSPLICE SCHEDULE' FOR LAP LEN CONTINUOUS TOP AND BOTTOM B	IGTHS.			
				HE CONTRACTOR SHALL REQUED ON THE DOCUMENTS:	-	- SPLICE 1 3B) MISCELL	OP BARS AT MIDSPAN AND BOTT	OM BARS OVER SUPPORT MENTS:	UNLESS NO	TED OTHER	WISE.
						- MAKE AL - NO WELI ACCORDAN - PROVIDE	L REINFORCING BAR BENDS IN TH DING OF REINFORCING PERMITTE CE WITH AWS D1.4-2011.	HE FABRICATOR'S SHOP U D UNLESS NOTED ON DRA	JNLESS NOTE AWINGS. WH	ED. ERE PERMIT	TTED, PERFORM WELDI
STEEL MA	TERIAI	L TAE	BLE			<u>4) STRUCT</u>		ENTS:			
ASTM/TYPE	<b>J</b>			COMMENTS		,					
F1554 GR 55	· / ·		LDABLI	E, HEAVY HEX HEADED	Į	5A) VERIFY /	ALKALINITY OF CONCRETE SURFA				NESS/LEVELNESS ARE
F3125 - TYPE A325 OR F1852	1										ID IE ELOOR ELATNESS
A36		58				,					UILLOUN L'LATINESS
A53 GR B											
A30 A500 GR C						,		GTH AT 28 DAYS.			
A500 GR C	46 6	62				7) PLACINO	REINFORCEMENT:				
E70		PEI	RAWS			- ŚEE 'REI	BAR COVER TABLE'	ACING TOLERANCES			
A992	50 6	65				7B) PROVIDE	E ACCESSORIES NECESSARY TO F	PROPERLY SUPPORT REI			
INSTALLED A		r no'	<b>ES</b>					TION AND CONTROL JOIN	T LOCATIONS	S ALONG WIT	THE SEQUENCE OF I
					(	CONSTRUCT	FION JOINT LOCATIONS AND CAST SHORTENING/SHRINKAGE.				
SONNEL WHO INSTALI ANCHORS.	L ANCHOF	RS HAVE	E PASS	ED THE TRAINING COURSE PR	RIOR TO	STRU ISSU STRU	ICTURAL DRAWINGS MUST DEFIN ES WHICH IMPACT FINAL PERFOR ICTURAL DRAWINGS MAY BE APP	MANCE OF THE STRUCTU ROPRIATE INCLUDE LARG	RE. PROJEC	TS WHERE S	SHOWING JOINTS ON TH
SHALL BE CERTIFIED	) BY THE A TED WITH A	ACI/CRS A (CERT	ADHES ) AFTE	SIVE ANCHOR INSTALLER R THE ANCHOR CALL OUT. SU		8B) CONSTR	UCTION JOINT LOCATION AND CA	STING SEQUENCE SHOW	N ON THE DR		
		G TO MA	NUFAC	TURER'S PRINTED INSTALLAT	17 181			CE SHALL BE CLEANED A	ND ALL LAIT	ANGE AND LC	JOSE MATERIAL REMOV
TED OTHERWISE. WRI <sup>-</sup> ONS.						9A) UNLESS OR EXISTIN - SAW CU	NOTED ON THE STRUCTURAL DO G CONCRETE WITHOUT APPROVA	CUMENTS MODIFICATION	S AS LISTED	BELOW SHAI	LL NOT BE MADE TO HA
E OF INSTALLATION TH							G				
RILLED AND CLEANED. DAYS OLD BEFORE INS	STALLATIC	ON OF A	NCHOF	S.	9	9B) DO NOT	CUT OR DAMAGE ANY REINFORCI	NG WITHOUT APPROVAL	OF THE ARCH	HITECT	
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## CONCRETE NOTES

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	CONCRETE MIX TABLE											
CONC MIX TYPE	INTENDED USE	28 DAY STRENGTH f'c (KSI)	CONC WEIGHT	MAX W/C RATIO, INCLUDING FLY ASH	MAX AGGREGATE SIZE (IN), NOTE a	TOTAL AIR CONTENT (%), NOTE b	OTHER REQTS, NOTE c					
1	FOOTINGS	4.5	NWC	-	1	-	-					
2	BSMT WALLS EXPOSED TO MOISTURE	4.5	NWC	0.45	3/4	6	-					
3	INT SLABS ON GRADE	3.5	NWC	-	1	NP	-					
4	ALL CONC OTHERWISE NOT SPECIFIED	4	NWC	0.50	3/4	6	-					

CONCRETE MIX TABLE NOTES:

PROPORTIONS OF MATERIALS IN CONCRETE MIX SHALL BE ESTABLISHED TO: - PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO NOTED.

- PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED, WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS.

USE TYPE I / II PORTLAND CEMENT UNLESS NOTED OTHERWISE. FOR CONCRETE MIXES USED ON FLOORS MINIMUM CEMENTITIOUS CONTENT SHALL BE 540 POUNDS PER CUBIC YARD.

FOR CONCRETE PLACED BY PUMPING PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING SUBJECT TO THE PROVISIONS OF NOTE b BELOW. a. FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33:

### 3/4": #67 AGGREGATE 1": #57 AGGREGATE

b. WHERE AIR CONTENT IS INDICATED IN THE MIX TABLE, PROVIDE AIR ENTRAINING ADMIXTURE. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. 'NP' IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED EXCEPT WHERE CONTRACTOR CAN DEMONSTRATE THAT SLABS WITH ENTRAINED AIR WILL HAVE A FINISH ACCEPTABLE TO THE ARCHITECT WITHOUT BLISTERS. AIR CONTENT NOTED IS BASED ON 3/4" AGGREGATE. IF 3/8" AGGREGATE IS USED, INCREASE AIR CONTENT BY 1 1/2%.

## WOOD NOTES

1) LAMINATED MEMBER SIZES: 1A) (LVL, PSL, LSL, GLU-LAM AND OTHER FABRICATED MEMBERS (TJI) SIZES SHOWN ARE NET. OTHER MEMBER SIZES ARE NOMINAL.

### 2) FRAMING LUMBER:

2A) DRY (19% MAXIMUM MOISTURE CONTENT AT THE TIME OF INSTALLATION), HEM-FIR WITH MINIMUM DESIGN VALUES BASED ON THE 2018 NDS. SEE 'FRAMING LUMBER TABLE' FOR MINIMUM GRADES.

2B) BEAMS AND STRINGERS USED WITH CANTILEVERS OR CONTINUOUS SPANS SHALL BE GRADED TO PROVIDE THE SPECIFIED ALLOWABLE STRESSES OVER THE ENTIRE MEMBER LENGTH.

### 3) FABRICATED LUMBER: 3A) FABRICATED LUMBER DESIGNATIONS ARE THOSE MANUFACTURED BY ILEVEL, BOISE, IDAHO.

3B) FABRICATED LUMBER IS DESIGNATED ON THE DRAWINGS AS ONE OF THE FOLLOWING: TJI JOISTS, MICROLLAM (LVL), PARALLAM (PSL), TIMBERSTRAND (LSL) OR RIMBOARD.

3C) THE MANUFACTURER SHALL PROVIDE WEB STIFFENERS ON I-JOISTS, END BLOCKING, BRIDGING, AND ERECTION BRACING AS REQUIRED. SEE "DESIGN CRITERIA" FOR DESIGN DEAD AND LIVE LOADS.

3D) FABRICATED LUMBER SHALL BE DRY.

3E) SEE 'FABRICATED LUMBER TABLE' FOR MINIMUM PROPERTIES (AT NORMAL LOAD DURATIONS).

### 4) SHEATHING:

4A) WOOD STRUCTURAL PANELS (WSP) WOOD STRUCTURAL PANELS SHALL BE APA RATED SHEATHING CONFORMING TO U.S. DEPARTMENT OF COMMERCE STANDARD PS 2-10. ALL WOOD PANELS SHALL BE EXPOSURE 1.

## 5) NAILING:

UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE BOX NAILS COMMON NAILS SINKERS WITH SIZES SHOWN IN THE TABLE BELOW. MINIMUM NAILING SHALL BE IN ACCORDANCE WITH THE TYPICAL WOOD CONNECTION SCHEDULE AND IBC 2018 TABLE 2304.10.1

5B) WHERE COMMON NAILS ARE SPECIFIED, BOX NAILS OF EQUAL LENGTH MAY BE SUBSTITUTED PROVIDED ONE BOX NAIL IS ADDED FOR EVERY THREE COMMON NAILS SPECIFIED.

### 6) METAL CONNECTORS:

6A) FRAMING CONNECTORS SHALL CONFORM TO IBC 2018 SECTION 2303.5 FRAMING CONNECTOR DESIGNATIONS ARE THOSE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CALIFORNIA. OTHER MANUFACTURER'S PRODUCTS MAY BE USED IF APPROVED BY THE ENGINEER. FURNISH NAILS AND/OR BOLTS OF DIAMETER, LENGTH, AND NUMBER SPECIFIED BY THE MANUFACTURER FOR EACH CONNECTOR.

6B) ALL CONNECTOR HOLES SHALL BE FILLED WITH PROPER NAILS/BOLTS INCLUDING OPTIONAL NAIL LOCATIONS FOR UPLIFT. ALL BOLT HOLES SHALL BE DRILLED INTO FRAMING MEMBERS. MAXIMUM HOLE DIAMETER IS 1/16" LARGER THAN THE BOLT DIAMETER.

### 7) OPENINGS:

7A) OPENING, POCKETS, ETC., SHALL NOT BE PLACED IN BEAMS, JOISTS, RAFTERS, STUDS, POSTS, COLUMNS, TIMBER AND OTHER STRUCTURAL MEMBERS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS.

TYPE OF USE	GRADE	Fb (PSI)	Fv (PSI)	E (PSI)
EXTERIOR STUDS	NO. 2			
LOAD BEARING STUDS (AND COLUMNS ASSEMBLED FROM STUDS)	NO. 2			
NON-LOAD BEARING STUDS	STUD			
BEAMS & STRINGERS	NO. 1			
POSTS & TIMBER	NO. 1			
EXPOSED FRAMING	NO. 1			
DECKING	SELECT DX			
ALL OTHER	NO. 1			

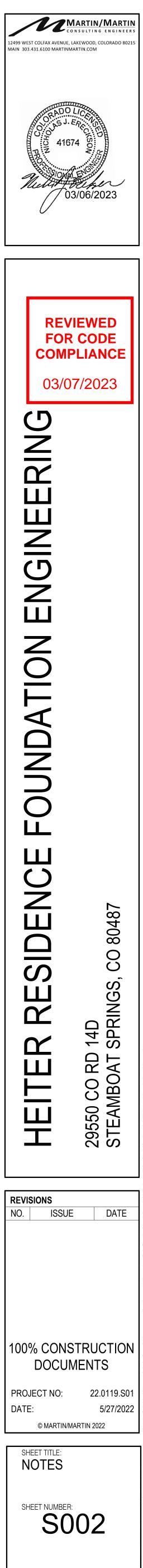
PRODUCT	SIZE	TYPE	Fb (PSI)	Fv (PSI)	Ft (PSI)	E (KSI)	REMARKS
PARALLEL STRAND BEAM		PSL	2000	290	2025	2000	
LAMINATED STRAND BEAM		LSL	2250	400	1075	1500	
LAMINATED VENEER BEAM		LVL	2600	285	1555	1900	

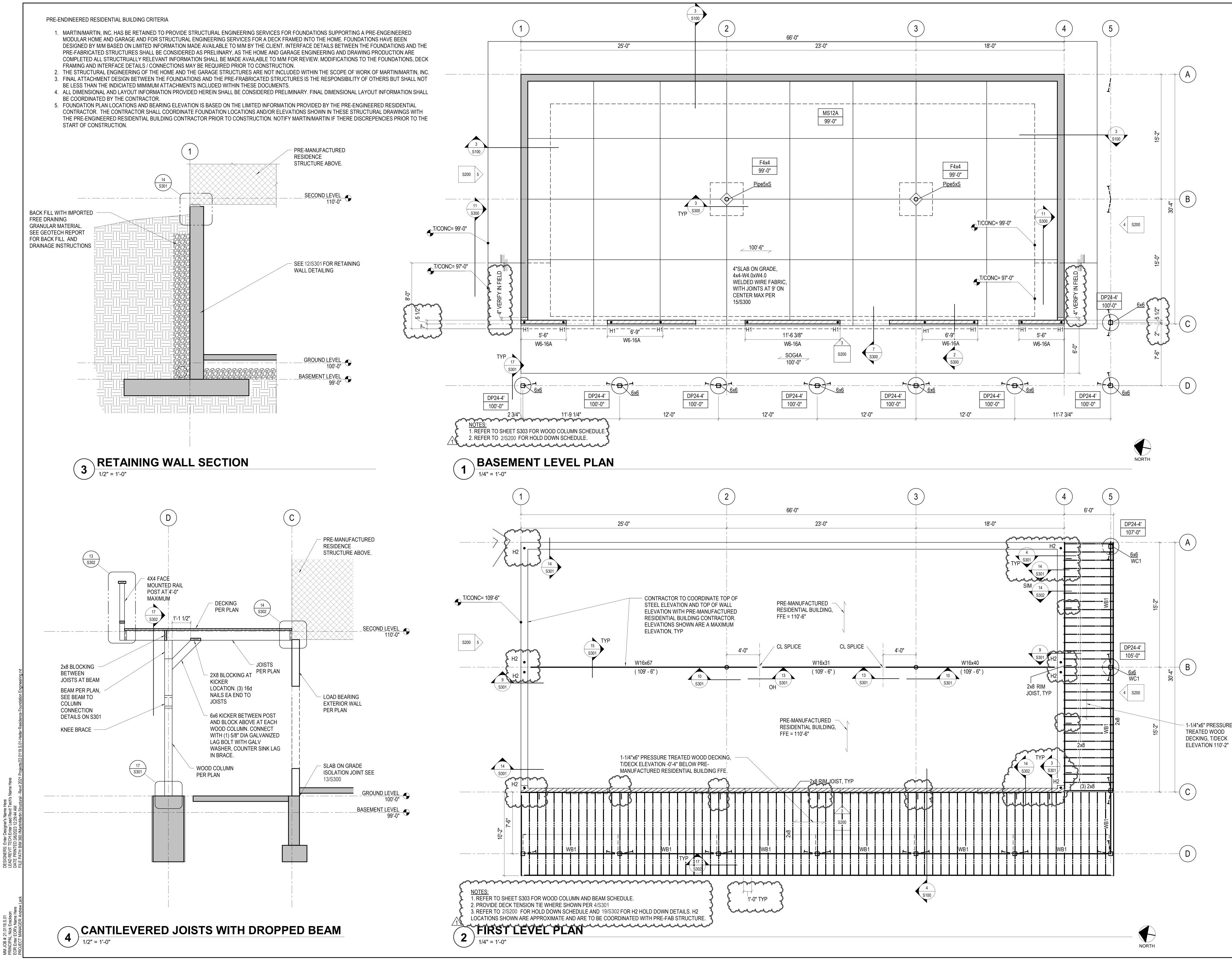
## **APA RATED SHEATHING**

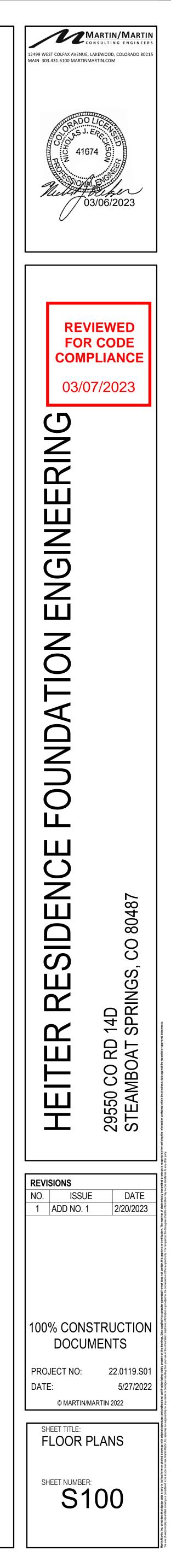
PANEL SPAN RATING	PANEL THICKNESS
24/16	7/16"
32/16	15/32", 1/2"
40/20	19/32", 5/8"
48/24	23/32", 3/4"





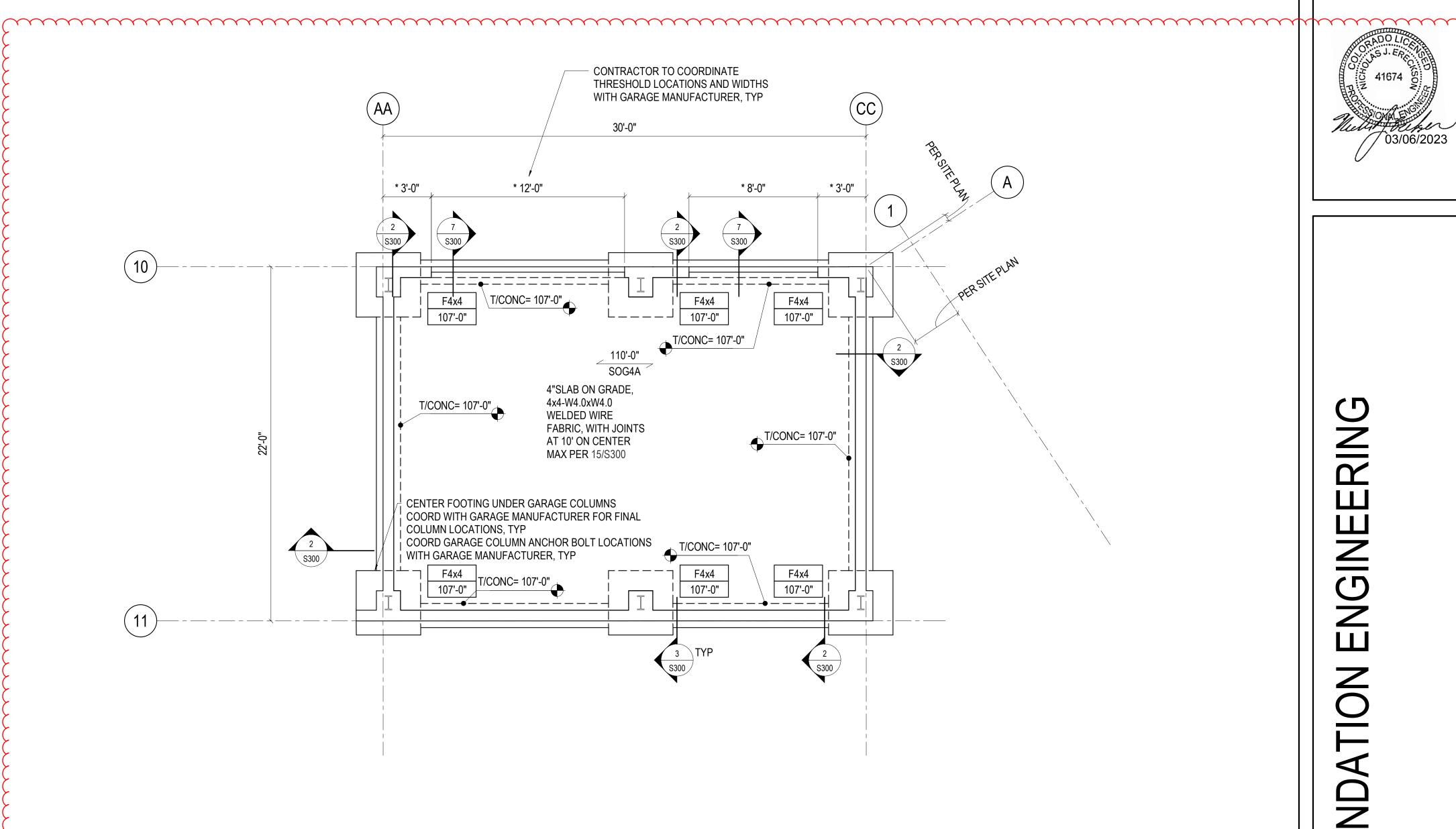






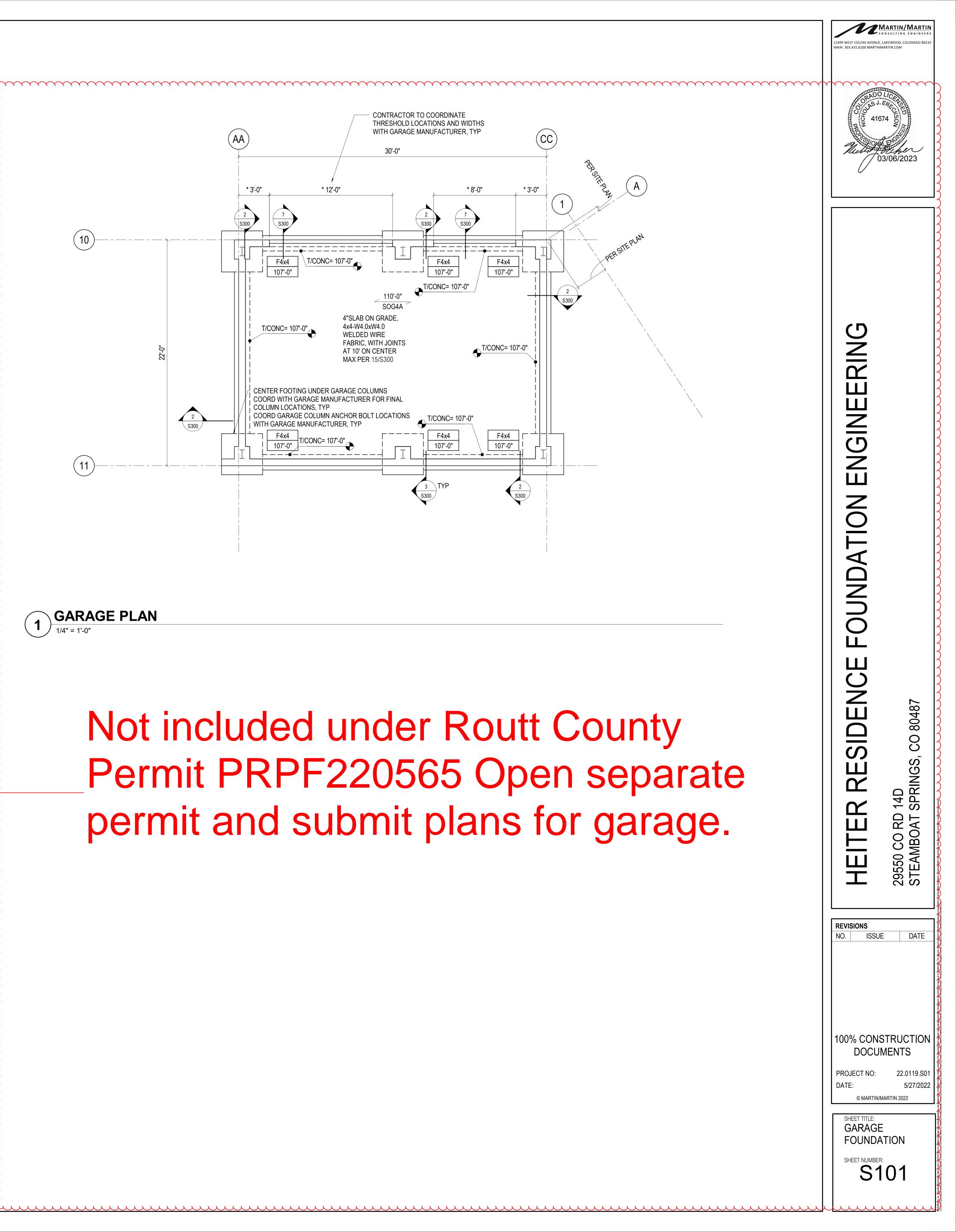
PRE-ENDINEERED RESIDENTIAL BUILDING CRITERIA

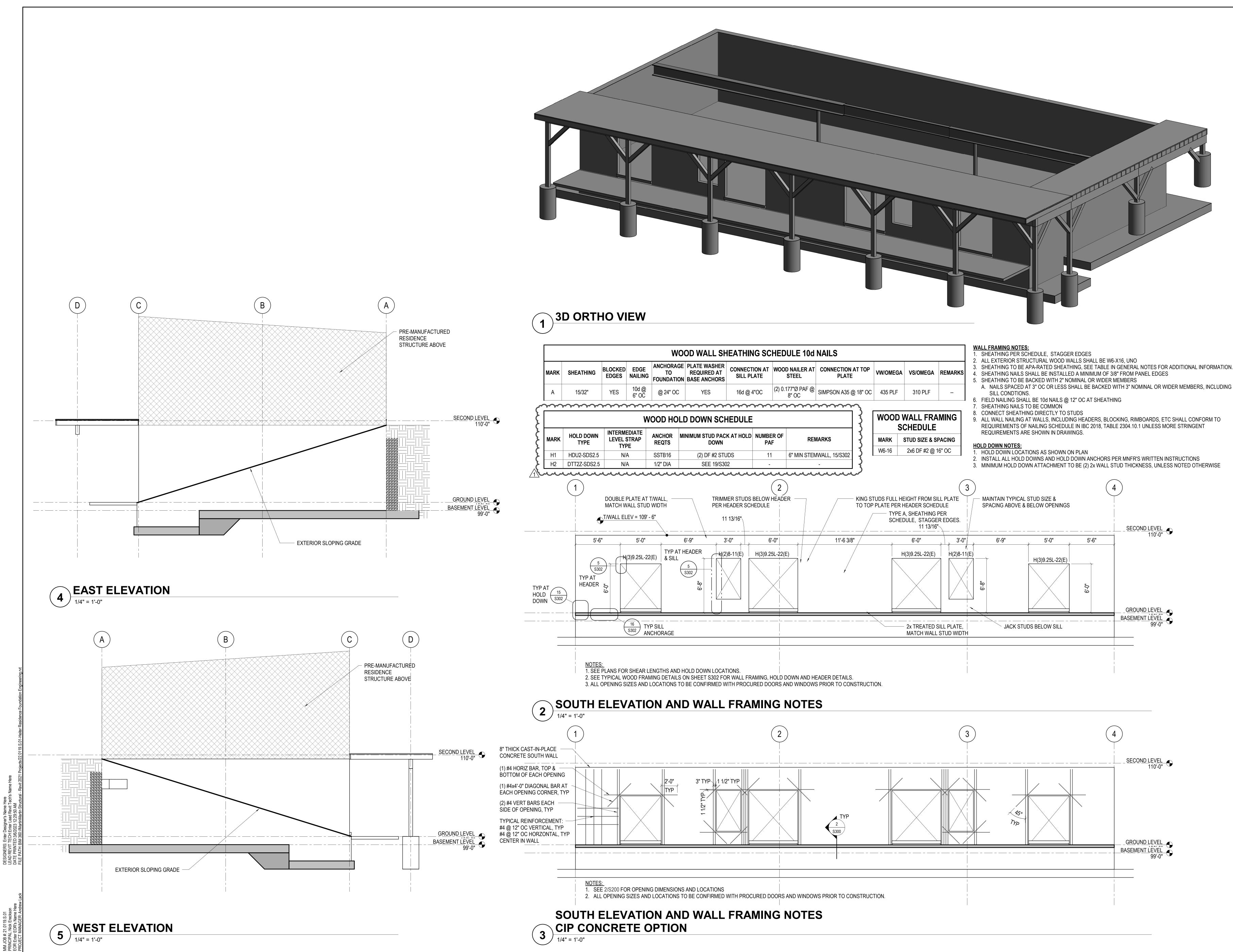
- 1. MARTIN/MARTIN, INC. HAS BE RETAINED TO PROVIDE STRUCTURAL ENGINEERING SERVICES FOR FOUNDATIONS SUPPORTING A PRE-ENGEINEERED MODULAR HOME AND GARAGE AND FOR STRUCTURAL ENGINEERING SERVICES FOR A DECK FRAMED INTO THE HOME. FOUNDATIONS HAVE BEEN DESIGNED BY M/M BASED ON LIMITED INFORMATION MADE AVAILABLE TO M/M BY THE CLIENT. INTERFACE DETAILS BETWEEN THE FOUNDATIONS AND THE PRE-FABRICATED STRUCTURES SHALL BE CONSIDERED AS PRELIINARY, AS THE HOME AND GARAGE ENGINEERING AND DRAWING PRODUCTION ARE COMPLETED ALL STRUCTRUALLY RELEVANT INFORMATION SHALL BE MADE AVAILABLE TO M/M FOR REVIEW. MODIFICATIONS TO THE FOUNDATIONS, DECK FRAMING AND INTERFACE DETAILS / CONNECTIONS MAY BE REQUIRED PRIOR TO CONSTRUCTION.
- THE STRUCTURAL ENGINEERING OF THE HOME AND THE GARAGE STRUCTURES ARE NOT INCLUDED WITHIN THE SCOPE OF WORK OF MARTIN/MARTIN, INC. 3. FINAL ATTACHMENT DESIGN BETWEEN THE FOUNDATIONS AND THE PRE-FRABRICATED STRUCTURES IS THE RESPONSIBILITY OF OTHERS BUT SHALL NOT
- BE LESS THAN THE INDICIATED MIMIMUM ATTACHMENTS INCLUDED WITHIN THESE DOCUMENTS. 4. ALL DIMENSIONAL AND LAYOUT INFORMATION PROVIDED HEREIN SHALL BE CONSIDERED PRELIMINARY. FINAL DIMENSIONAL LAYOUT INFORMATION SHALL BE COORDINATED BY THE CONTRACTOR.
- 5. FOUNDATION PLAN LOCATIONS AND BEARING ELEVATION IS BASED ON THE LIMITED INFORMATION PROVIDED BY THE PRE-ENGINEERED RESIDENTIAL CONTRACTOR. THE CONTRACTOR SHALL COORDINATE FOUNDATION LOCATIONS AND/OR ELEVATIONS SHOWN IN THESE STRUCTURAL DRAWINGS WITH THE PRE-ENGINEERED RESIDENTIAL BUILDING CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY MARTIN/MARTIN IF THERE DISCREPENCIES PRIOR TO THE START OF CONSTRUCTION.

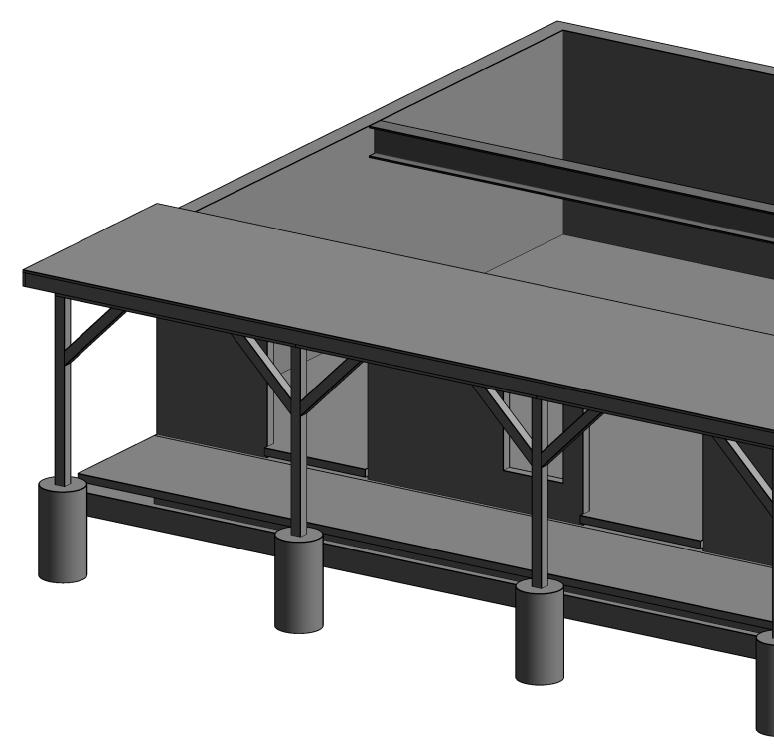


**GARAGE PLAN** 1/4" = 1'-0"

# Not included under Routt County Permit PRPF220565 Open separate permit and submit plans for garage.

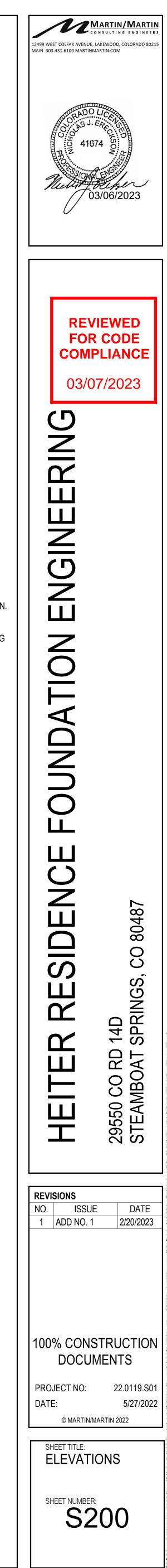




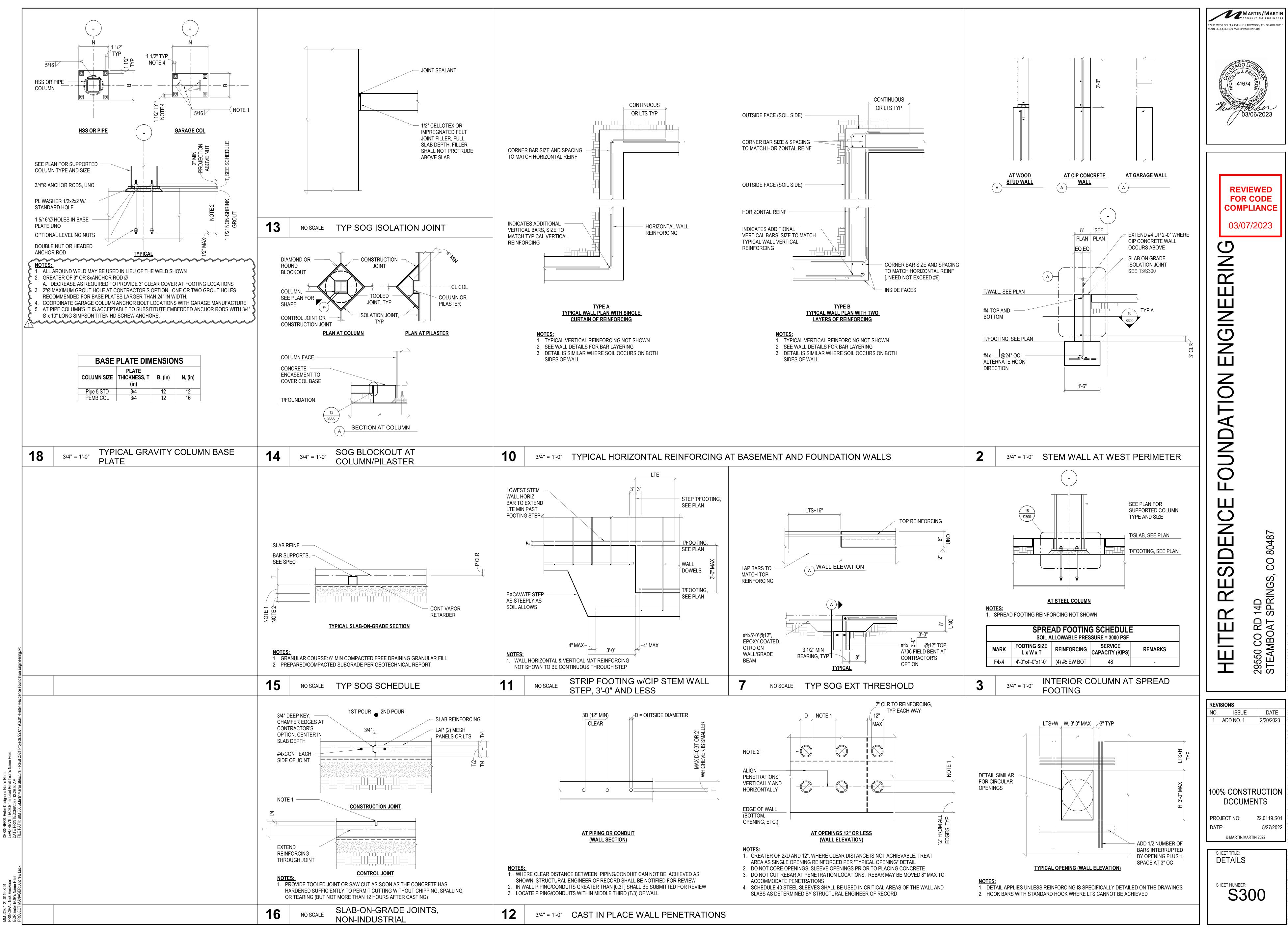


- SHEATHING TO BE APA-RATED SHEATHING, SEE TABLE IN GENERAL NOTES FOR ADDITIONAL INFORMATION.

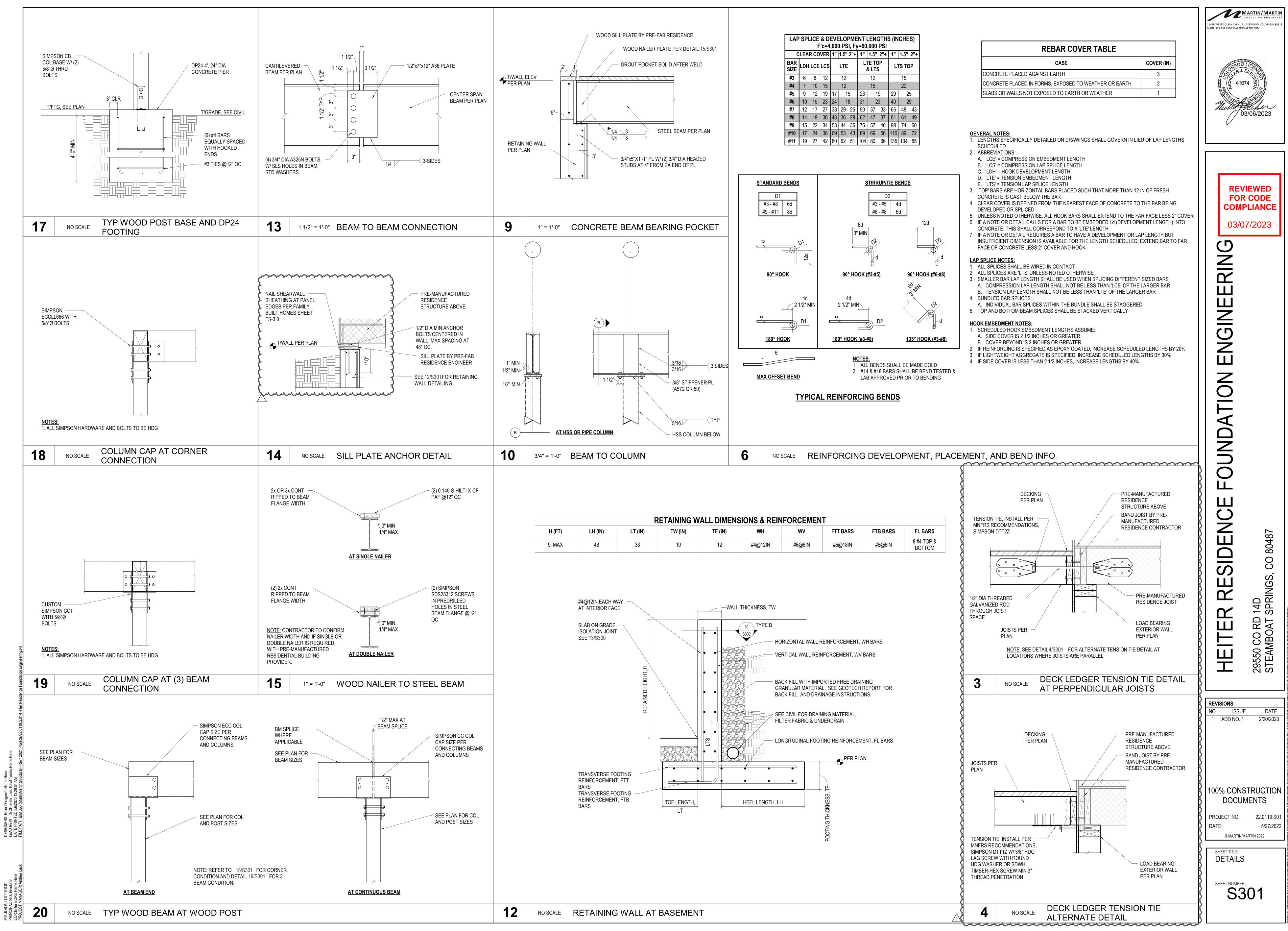
- . ALL WALL NAILING AT WALLS, INCLUDING HEADERS, BLOCKING, RIMBOARDS, ETC SHALL CONFORM TO REQUIREMENTS OF NAILING SCHEDULE IN IBC 2018, TABLE 2304.10.1 UNLESS MORE STRINGENT



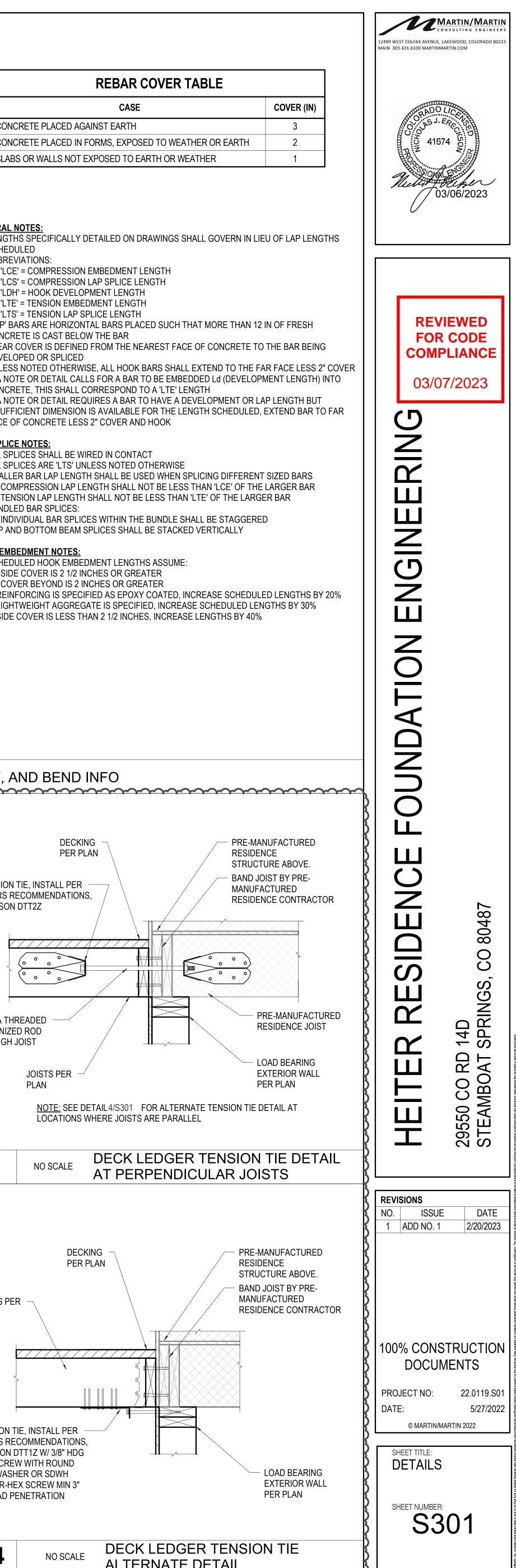


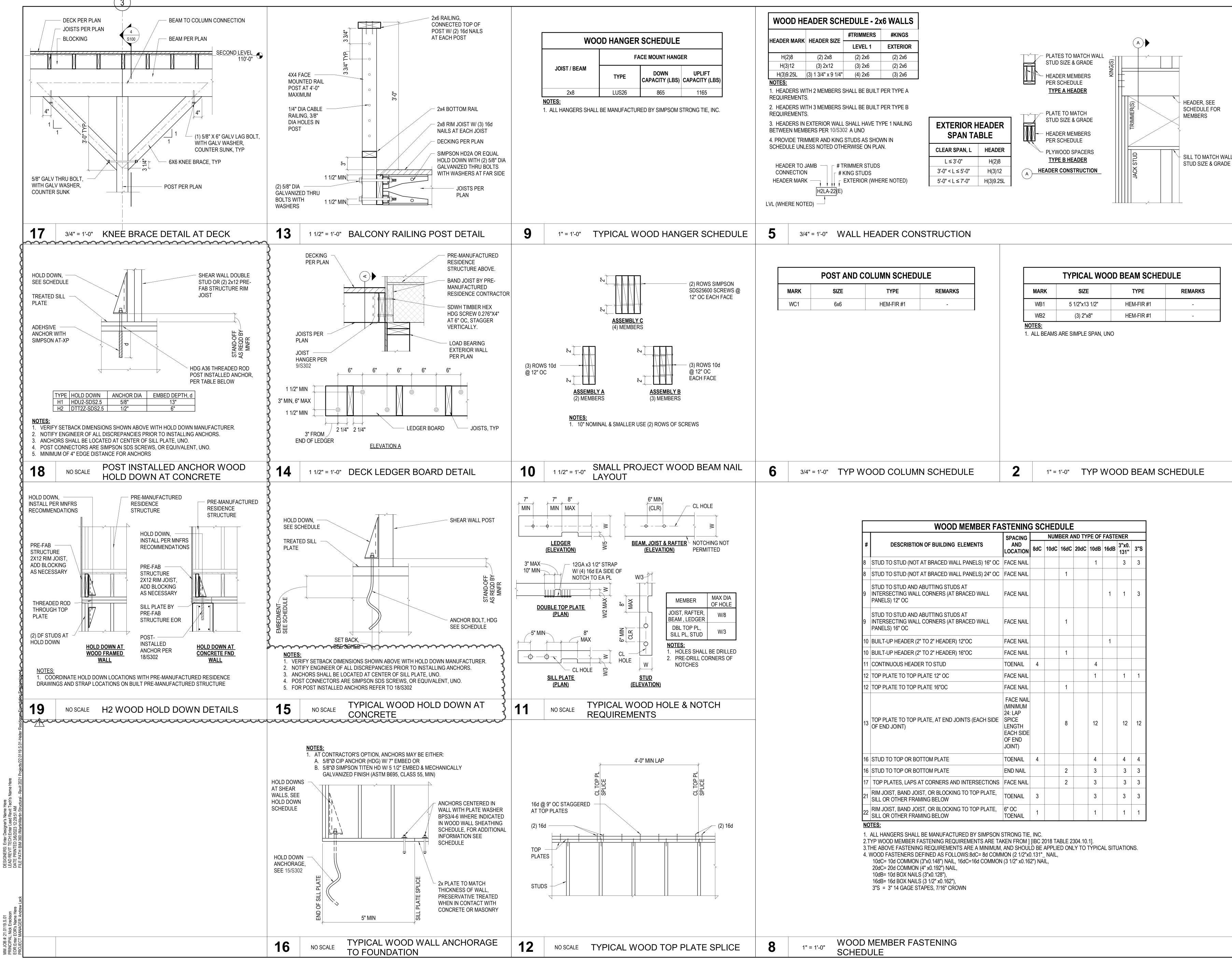


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LAP	LAP SPLICE & DEVELOPMENT LENGTHS (INCHES) F'c=4,000 PSI, Fy=60,000 PSI											
C	CLEAR COVER			1"	1.5"	2"+	1"	1.5"	2"+	1"	1.5"	2"+
BAR Size	LDH	LCE	LCS		LTE		LTE TOP & LTS			LTS TOP		
#3	6	8	12		12			12		15		
#4	7	10	15		12		15			20		
#5	9	12	19	17	1	5	23	19		29	25	
#6	10	15	23	24	1	8	31	2	3	40	2	9
#7	12	17	27	38	29	25	50	37	33	65	48	43
#8	14	19	30	48	36	29	62	47	37	81	61	49
#9	15	22	34	58	44	36	75	57	46	98	74	60
#10	17	24	38	69	53	43	89	69	56	116	89	72
#11	19	27	42	80	62	51	104	80	66	135	104	85





POST AND COLUMN SCHEDULE							
IARK	SIZE	TYPE	REMARKS				
NC1	6x6	HEM-FIR #1	-				

TYPICAL WOOD BEAM SCHEDULE									
MARK	SIZE	TYPE	REMARKS						
WB1	5 1/2"x13 1/2"	HEM-FIR #1	-						
WB2	(3) 2"x8"	HEM-FIR #1	-						
NOTES:									

	WOOD MEMBER FA	STENING	g SC	HED	ULE					
		SPACING		NUM	BER A	ND TY	PE OF	FASTE	NER	
#	DESCRIBTION OF BUILDING ELEMENTS	AND LOCATION	8dC	10dC	16dC	20dC	10dB	16dB	3"x0. 131"	3"S
8	STUD TO STUD (NOT AT BRACED WALL PANELS) 16" OC	FACE NAIL					1		3	3
8	STUD TO STUD (NOT AT BRACED WALL PANELS) 24" OC	FACE NAIL			1					
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS) 12" OC	FACE NAIL						1	1	3
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS) 16" OC	FACE NAIL			1					
10	BUILT-UP HEADER (2" TO 2" HEADER) 12"OC	FACE NAIL						1		
10	BUILT-UP HEADER (2" TO 2" HEADER) 16"OC	FACE NAIL			1					
11	CONTINUOUS HEADER TO STUD	TOENAIL	4				4			
12	TOP PLATE TO TOP PLATE 12" OC	FACE NAIL					1		1	1
12	TOP PLATE TO TOP PLATE 16"OC	FACE NAIL			1					
13	TOP PLATE TO TOP PLATE, AT END JOINTS (EACH SIDE OF END JOINT)	FACE NAIL (MINIMUM 24: LAP SPICE LENGTH EACH SIDE OF END JOINT)			8		12		12	12
16	STUD TO TOP OR BOTTOM PLATE	TOENAIL	4				4		4	4
16	STUD TO TOP OR BOTTOM PLATE	END NAIL			2		3		3	3
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	FACE NAIL			2		3		3	3
21	RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	TOENAIL	3				3		3	3
22	RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	6" OC TOENAIL	1				1		1	1

