

PARAMETERS DESIGN CBC 2022		WOOD CONSTRUCTION	CONCRETE	ABBREVIATIONS	TITANIA CONSULTANTS																																																																
WIND DESIGN					<p>ALL THE DRAWINGS, SPECIFICATIONS & IDEAS, DESIGNS & ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE DESIGNERS AND BUILDERS, NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS, OR USED IN CONNECTION WITH ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE DESIGNER.</p>																																																																
1. BASIC WIND SPEED (3-SECOND GUST), MILES PER HOUR = 95 2. WIND IMPORTANCE FACTOR, I=1.0 AND OCCUPANCY CATEGORY = II 3. WIND EXPOSURE CATEGORY: C 4. THE APPLICABLE INTERNAL PRESSURE COEFFICIENT = 0.18		1. STRUCTURAL LUMBER SHALL BE GRADE-MARKED DOUGLAS FIR-LARCH BEAMS 4x OR BIGGER No. 1 & No. 2 STUD 2x4 OR 2x6 No. 2 POSTS 4x OR BIGGER No. 1 2. SILLS OR PLATES BEARING ON CONCRETE OR MASONRY WHICH IS WITHIN 48" OF EARTH SHALL BE PRESSURE TREATED, OR EQUAL, WOOD SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WITH 5/8" DIAMETER x 10" BOLTS 4"-0" o.c. 12" MIN. FROM ENDS, OR 2 BOLTS MIN. PER PIECE. WHERE DIFFERENT SIZES AND/OR SPACING ARE REQUIRED, THEY SHALL GOVERN. INSTALL WITH 3"x3"x1/4" PLATE WASHER AT EACH ANCHOR BOLT. 3. GLU-LAM BEAMS MUST BE FABRICATED IN A LICENSED SHOP & SHALL BE 24F-V8 GRADE. 4. JOISTS SHALL BE BLOCKED AT SUPPORTS AND BRIDGED OR BLOCKED AT INTERVALS OF 8 FT WHERE JOISTS ARE 2x12 OR DEEPER. 5. JOISTS UNDER NON-BEARING PARTITIONS SHALL BE DOUBLED, EXCEPT AS NOTED. 6. LAGBOLTS (& SCREWS) SHALL BE PRE-DRILLED TO SHANK DIAMETER AND FULL DEPTH AND SCREWED (NOT DRIVEN) INTO PLACE. 7. CUT WASHERS SHALL BE PLACED UNDER HEADS AND NUTS OF ALL BOLTS AND UNDER HEADS OF LAGBOLTS. ONE CUT WASHER SHALL BE USED FOR BOLTS CONNECTING WOOD LEDGERS TO CONCRETE OR MASONRY WALLS. 8. ALL HARDWARE USED FOR WOOD CONNECTION SHALL BE SIMPSON STRONG-TIE PRODUCTS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. ALTERNATE PRODUCTS WILL ONLY BE PERMITTED IF WRITTEN APPROVAL AND ACCEPTANCE IS OBTAINED BY ENGINEER. 9. ALL LUMBER SHALL HAVE A MOISTURE CONTENT NOT TO EXCEED 19% AT THE TIME OF FABRICATION OR CONSTRUCTION. 10. PROVIDE LEAD HOLE 40%-70% OF THREADED SHANK DIA. AND FULL DIA. FOR SMOOTH SHANK PORTION. 11. PLACE 2" FIREBLOCKING IN STUD WALLS AT CEILING AND FLOOR LEVELS, AT EACH 10' HEIGHT OF STUDS, AND BETWEEN STAIR STRINGERS AT SUPPORTS.	ALL CONCRETE CONSTRUCTION AND DETAILING SHALL CONFORM TO THE LATEST EDITION OF ACI 318 MINIMUM 28 DAY STRENGTH 3500 PSI NORMAL WEIGHT CONCRETE TO BE USED AT FOUNDATION GRADE SLAB FLOOR BEAMS & FLOOR SLAB. ALL CONCRETE IS TO BE MECHANICALLY VIBRATED WHEN PLACED, EXCEPT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, PENETRATIONS, ETC. CONCRETE SHALL BE DEPOSITED AS NEAR AS POSSIBLE TO ITS FINAL POSITION AND SHALL BE PLACED SO AS TO AVOID SEGREGATION. VIBRATING EQUIPMENT SHALL NOT BE USED TO MOVE CONCRETE INTO POSITION. ALL REINFORCING, EMBED PLATES, ANCHORS, ETC, SHALL BE IN PLACE AND PROPERLY SECURED PRIOR TO PLACING CONCRETE. "WET STABBING" IS NOT ALLOWED. MAXIMUM SLUMP = 4-1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A MAXIMUM SLUMP OF 4 1/2" SHALL BE ACHIEVED PRIOR TO ADDING PLASTICIZER. A FINAL MAXIMUM SLUMP OF 6" SHALL BE ACHIEVED AFTER PLASTICIZER IS ADDED. WATER CEMENT RATIO SHALL NOT EXCEED .45. CLOSURE POURS SHALL BE CAST AROUND COLUMNS ONLY AFTER THE STRUCTURE DEAD LOAD HAS BEEN APPLIED TO THE COLUMN. ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY KEYED OR SAW CUT CONTROL JOINTS AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 400 SQUARE FEET, UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT. KEYED CONTROL JOINTS NEED TO OCCUR ONLY AT SLAB EDGES LEFT EXPOSED DURING PLACEMENT. ALL OTHER JOINTS MAY BE SAW CUT. FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS OR REQUESTED BY CONTRACTOR, SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED. ALL CONCRETE THAT WILL BE SUBJECT TO FREEZING TEMPERATURES DURING ITS LIFE, INCLUDING WHILE WET, SHALL HAVE A WATER-CEMENT RATIO NOT EXCEEDING 0.53 BY WEIGHT AND SHALL CONTAIN ENTRAINED AIR PER ACI 301. SUCH CONCRETE SHALL BE PROVIDED FOR EXTERIOR SLABS, PERIMETER STEMS AND FOUNDATIONS, EXTERIOR CURBS AND GUTTERS, ETC.	<p>A.B.C. AGGREGATE BASE COURSE A.F.F. ABOVE FINISHED FLOOR A.LT. ALTERNATE A.B. ANCHOR BOLT @ AT (MEASUREMENT) B.M. BEAM B.F.F. BELOW FINISHED FLOOR B.O.B. BOTTOM OF BEAM B.O.D. BOTTOM OF DECK B.O.F. BOTTOM OF FOOTING BRG BEARING C.I.P. CAST IN PLACE C.J. CEILING JOIST C.J.P. COMPLETE JOINT PENETRATION C.L. CENTERLINE C.L.B. CENTERLINE OF BEAM C.L.C. CENTERLINE OF COLUMN C.L.F. CENTERLINE OF FOOTING C.L.L. CENTERLINE OF LEDGER C.L.W. CENTERLINE OF WALL CLR CLEAR CONC. CONCRETE CONC.C.J. CONCRETE CONTROL JOINT CONC.S.J. CONCRETE SAWCUT JOINT C.M.U. CONCRETE MASONRY UNIT CONN CONNECTION CONT. CONTINUOUS DEG. DEGREE D.L. DEAD LOAD o OR DIA. DIAMETER DN DOWN DWG(S) DRAWING(S) E.O.S. EDGE OF SLAB EQ EQUAL EQUIP EQUIPMENT EXPANSION BOLT EXPANSION JOINT E.W. EACH WAY F.F. FINISHED FLOOR F.J. FLOOR JOIST F.O.M. FACE OF MEMBER F.O.S. FACE OF STEEL F.O.W. FACE OF WALL GA GAGE GALV GALVANIZED G.S.N. GENERAL STRUCTL NOTES GLB GLUED-LAMINATED BEAM I.F.W. INSIDE FACE OF WALL HORIZ. HORIZONTAL K(KIP) 1000 POUNDS L.L. LIVE LOAD LBS (#) POUNDS LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL LSH LONG SIDE HORIZONTAL LSV LONG SIDE VERTICAL MFR(S) MANUFACTURER(S) MAS.C.J. MASONRY CONTROL JOINT MECH'L. MECHANICAL MLB MICROLLAM BEAM N/A NOT APPLICABLE N.T.S. NOT TO SCALE O.C. ON CENTER O.F.W. OUTSIDE FACE OF WALL OPP OPPOSITE P.C. PRECAST CONCRETE PLF POUNDS PER LINEAR FOOT PREFAB PREFABRICATED PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH REINF REINFORCING RJ ROOF JOIST RR ROOF RAFTER SLH SHORT LEG HORIZONTAL SLV SHORT LEG VERTICAL SIM SIMILAR SQ. SQUARE STD STANDARD T.L. TOTAL LOAD T.O.B. TOP OF BEAM T.O.D. TOP OF DECK T.O.F. TOP OF FOOTING T.O.L. TOP OF LEDGER T.O.M. TOP OF MASONRY T.O.P. TOP OF PLATE T.O.A.S. TOP OF STEEL T.O.W. TOP OF WALL TYP TYPICAL U.N.O. UNLESS NOTED OTHERWISE VERT VERTICAL W.W.F. WELDED WIRE FABRIC W/ WITH W/O WITHOUT</p>																																																																	
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ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. BENT CORNER BARS SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS AND SHALL MATCH AND LAP WITH HORIZONTAL BARS AS INDICATED IN THE TYPICAL DETAILS. ALL BENT BARS SHALL BE COLD BENT. ALL VERTICAL REINFORCING SHALL BE DOWELLED INTO FOOTINGS WITH STANDARD 90 DEGREE HOOKS UNLESS NOTED OTHERWISE. CONCRETE COLUMN DOWEL EMBEDMENT SHALL BE A STANDARD COMPRESSION DOWEL WITH EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF THE ACI 318.																																																																					
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2. THE OWNER SHALL EMPLOY A STATE OF CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER OR LICENSED ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. THE DEPARTMENT OF BUILDING AND RECOMMENDS THE USE OF THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE SAFETY STRUCTURAL DESIGN WHO ARE INDEPENDENT OF THE CONTRACTOR.																																																																					
3. THE STRUCTURAL OBSERVER SHALL PROVIDE EVIDENCE OF EMPLOYMENT BY THE OWNER OR THE OWNER'S REPRESENTATIVE. A LETTER FROM THE OWNER, THE OWNER'S REPRESENTATIVE, OR A COPY OF THE AGREEMENT FOR SERVICES SHALL BE SENT TO THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT.																																																																					
4. THE OWNER OR OWNER'S REPRESENTATIVE SHALL COORDINATE AND CALL FOR A MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE BUILDING INSPECTOR.																																																																					
5. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE LISTED SIGNIFICANT CONSTRUCTION STAGES ON THE FOLLOWING STRUCTURAL OBSERVATION/SIGNIFICANT CONSTRUCTION STAGES TABLE REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.																																																																					
6. THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT OF THE STRUCTURAL OBSERVATION REPORT FORM IN/FORM.08 (PART 1) FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED. THE ORIGINAL OF THE STRUCTURAL OBSERVATION REPORT SHALL BE SENT TO THE BUILDING INSPECTOR'S OFFICE AND SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER. ONE COPY OF THE OBSERVATION REPORT SHALL BE ATTACHED TO THE APPROVED PLANS. THE COPY ATTACHED TO THE PLANS SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER OR THEIR DESIGNEE. COPIES OF THE REPORT SHALL ALSO BE GIVEN TO THE OWNER, CONTRACTOR, AND DEPUTY INSPECTOR. ANY DEFICIENCY NOTED ON THE OBSERVATION REPORT WILL BECOME THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD TO VERIFY ITS COMPLETION BY HIM (HER), OR BY A REGISTERED DEPUTY INSPECTOR AT THE DISCRETION OF THE STRUCTURAL OBSERVER.																																																																					
7. A FINAL OBSERVATION REPORT AND THAT OF THE REGISTERED DEPUTY INSPECTOR MUST BE SUBMITTED WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND STRUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. THE DEPARTMENT OF BUILDING AND SAFETY WILL NOT ACCEPT THE STRUCTURAL WORK WITHOUT THIS FINAL OBSERVATION REPORT AND THAT OF THE REGISTERED DEPUTY INSPECTOR (WHEN PROVIDED) AND THE CORRECTION OF SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING INSPECTION.																																																																					
8. THE STRUCTURAL OBSERVER SHALL PROVIDE THE ORIGINAL STAMPED AND SIGNED STRUCTURAL OBSERVATION REPORT TO THE DEPARTMENT OF BUILDING AND SAFETY BUILDING THE COUNTY OF LOS ANGELES OBSERVATION REPORT TO INSPECTOR.																																																																					
9. WHEN THE OWNER ELECTS TO CHANGE THE STRUCTURAL OBSERVER OF RECORD, THE OWNER SHALL: A) NOTIFY THE BUILDING INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION BY SUBMITTING COMPLETED "STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER" FORM IN/FORM.08 (PART 2) B) CALL AN ADDITIONAL RECONSTRUCTION MEETING. C) FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF ALL PREVIOUS OBSERVATION REPORTS. THE REPLACEMENT STRUCTURAL OBSERVER SHALL APPROVE THE CORRECTION OF THE ORIGINAL OBSERVED DEFICIENCIES UNLESS OTHERWISE APPROVED BY PLAN CHECK SUPERVISION. THE POLICY OF THE DEPARTMENT SHALL BE TO CORRECT ANY PROPERTY NOTED DEFICIENCIES WITHOUT CONSIDERATION OF THEIR SOURCE.																																																																					
10. THE ENGINEER OR ARCHITECT OF RECORD SHALL DEVELOP ALL CHANGES RELATING TO THE STRUCTURAL SYSTEMS. THE BUILDING DEPARTMENT SHALL REVIEW AND APPROVE ALL CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS.																																																																					
GENERAL NOTES																																																																					
DRAWN																																																																					
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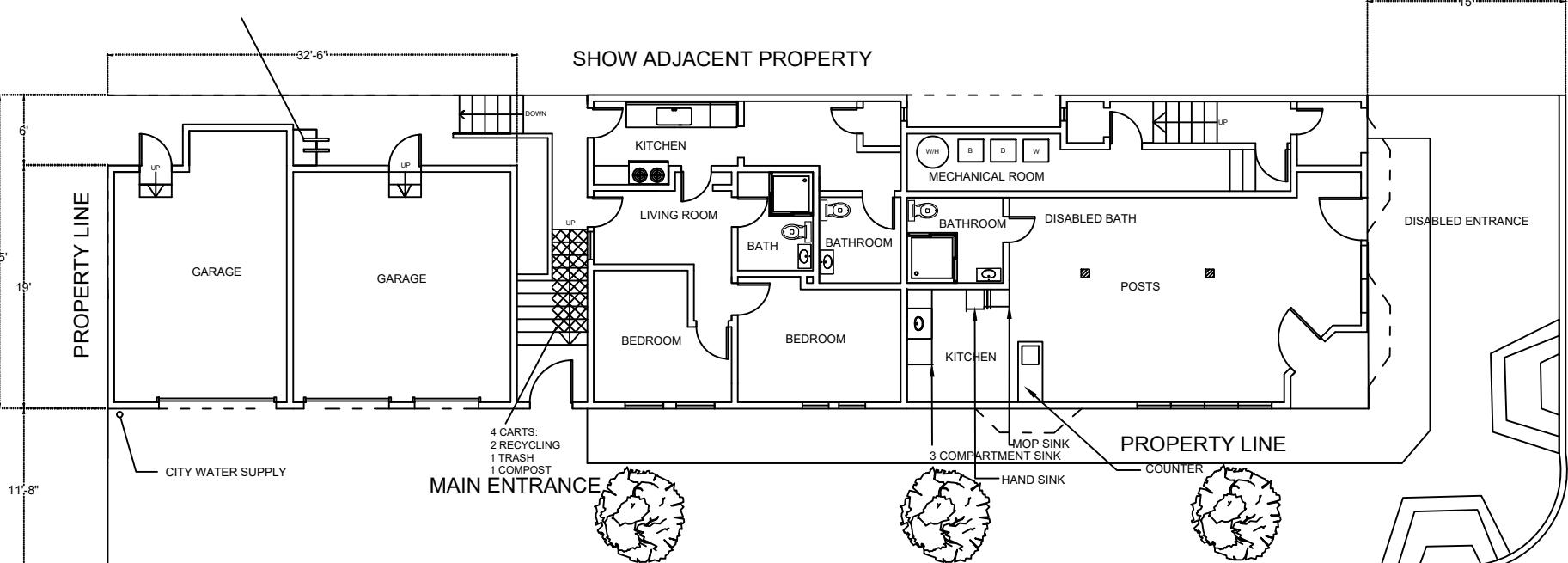
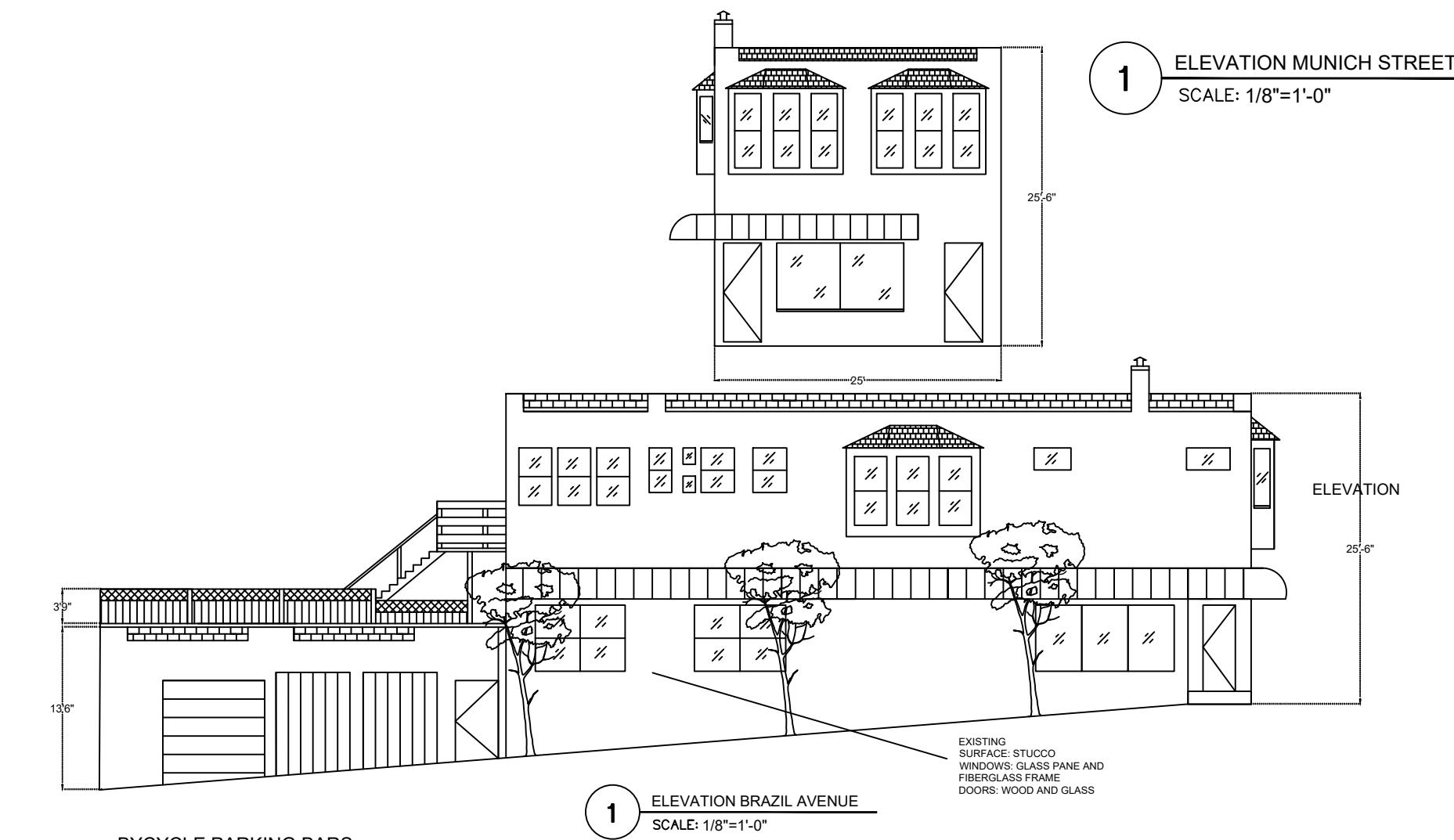
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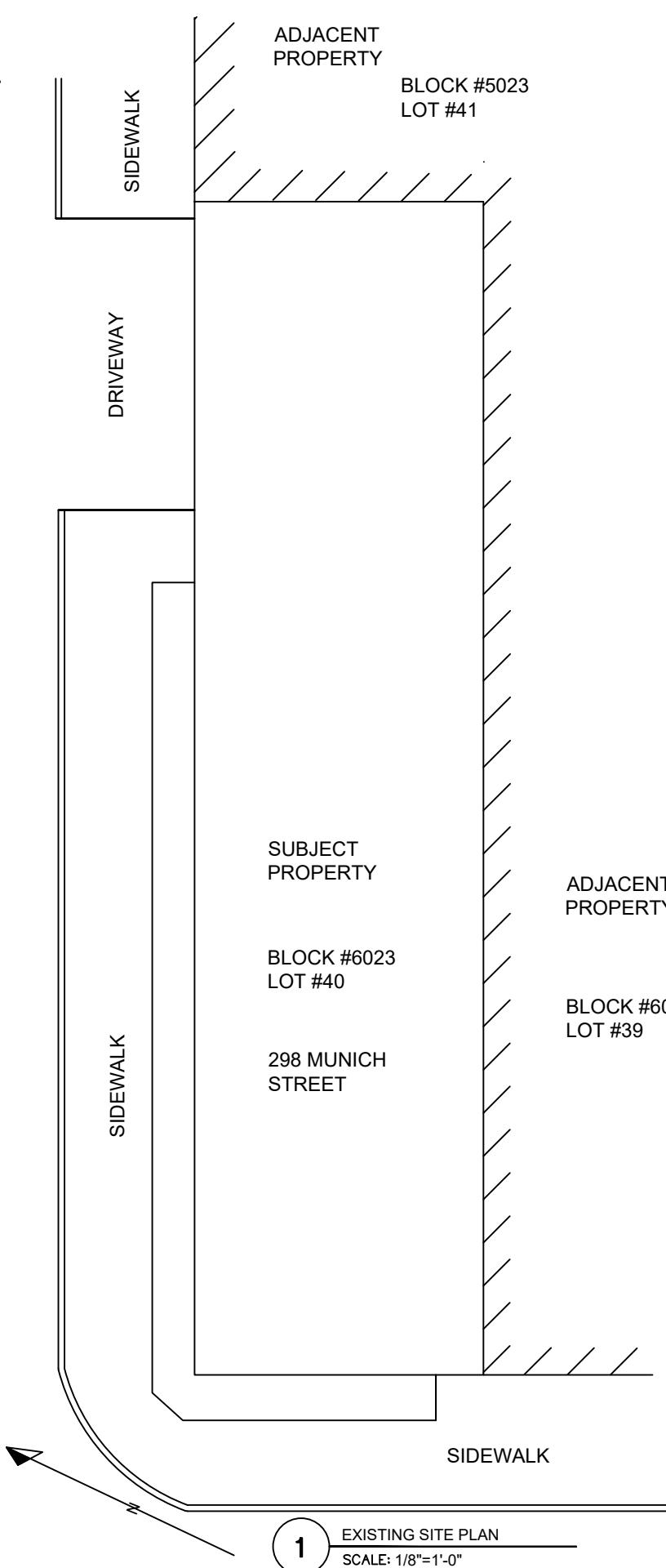
PROPERTY- 298 MUNICH STREET
SAN FRANCISCO, CA 94112

DRAWN
CHECKED
DATE
06.13.2025
SCALE
AS NOTED

A-1



1 EXISTING FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"



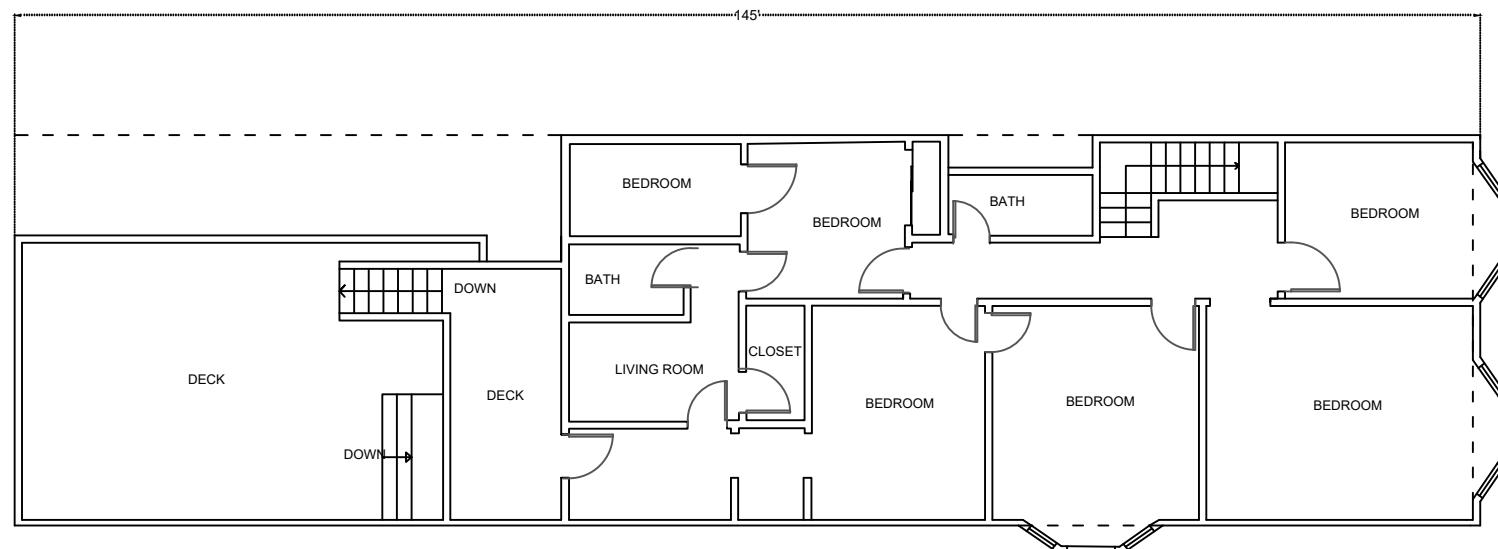
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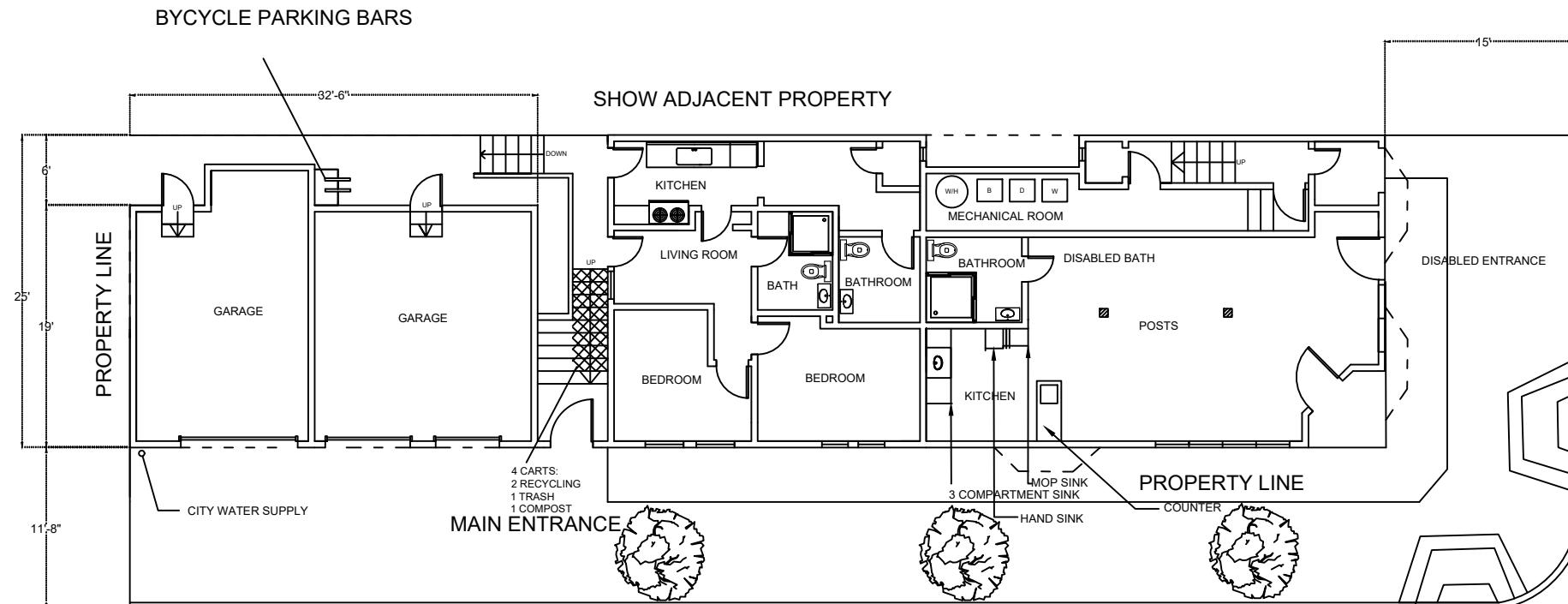
PROPERTY- 298 MUNICH STREET
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DATE
06.13.2025
SCALE
AS NOTED

A-2



2 EXISTING 2ND FLOOR PLAN
SCALE: 1/8"=1'-0"



2 EXISTING FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

REVISIONS

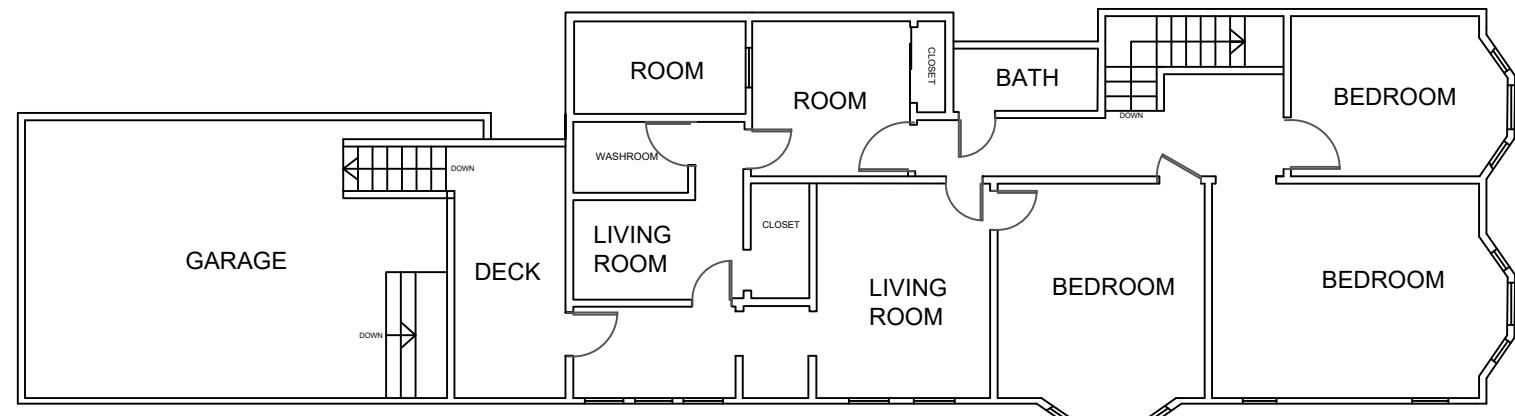
No	DATE

CODES:
2022 California Building Code
2022 California Building Electrical Plumbing and Housing Codes

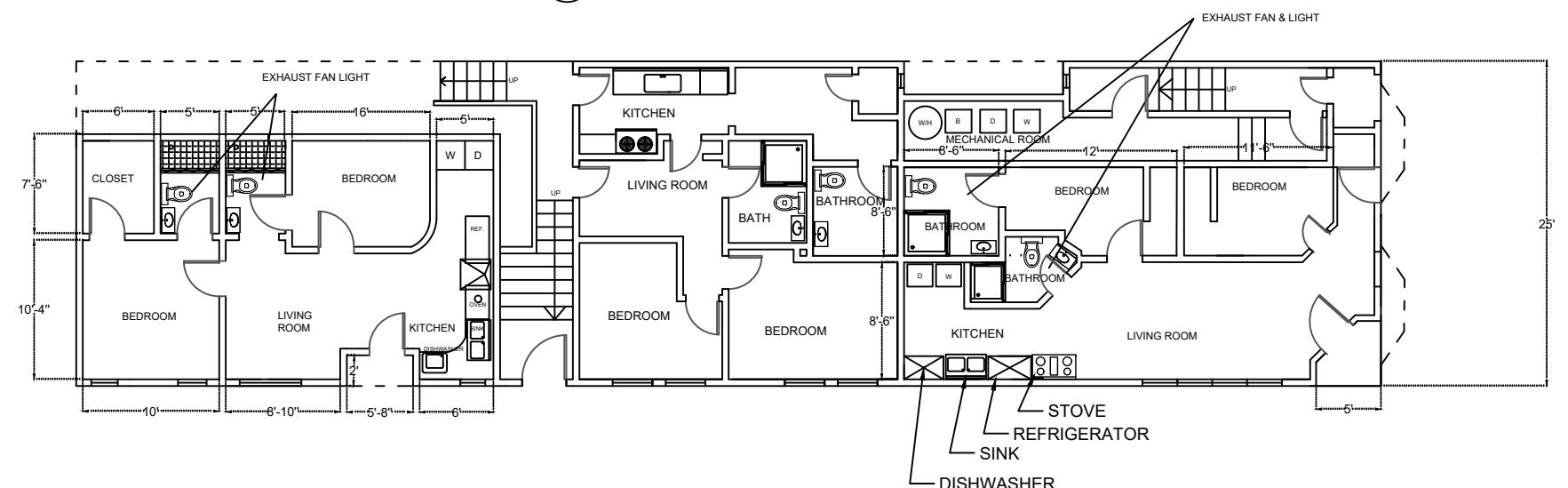
PROPERTY INFO:
EXISTING OCCUPANCY: R/3 M
PROPOSED: CHANGE OF OCCUPANCY TO R-2(4 UNITS)
2 STORIES

SCOPE OF WORK
CONVERT THE GARAGE TO LIVING UNIT
CONVERT THE COMMERCIAL SPACE TO RESIDENTIAL
EXISTING IS 3 UNITS (2 RESIDENTIAL, 1 COMMERCIAL), PROPOSED IS 4 UNITS(4 RESIDENTIAL)
PROPOSED UNIT 3 NUMBER(COMMERCIAL CONVERSION): 298 MUNICH STREET(KEEP AS IS), OR 296 MUNICH STREET IF IT MUST BE CHANGED
PROPOSED UNIT 4 NUMBER: 931 BRAZIL AVENUE
NO EXCAVATION NEEDED
UNITS WILL BE ADDED PER ORDINANCE NO 162-16
PROJECT WILL CONFORM TO AB-094

DRAWING INDEX:
A-1 SITE PLAN
A-2 (E) 1ST AND 2ND FLOOR
A-3 PROPOSED UNITS PLANS
A-4 (E) ELEVATION
A-5 PROPOSED ELEVATION
A-6 (E) SECTION A-A
A-7 PROPOSED SECTION A-A
A-8 BLOCK AND LOT#
A-9 HISTORICAL MAP
A-10 AERIAL MAP



3 EXISTING 2ND FLOOR PLAN
SCALE: 1/8"=1'-0"



3 EXISTING GROUND FLOOR PLAN WITH PROPOSED 2 UNITS
SCALE: 1/8"=1'-0"

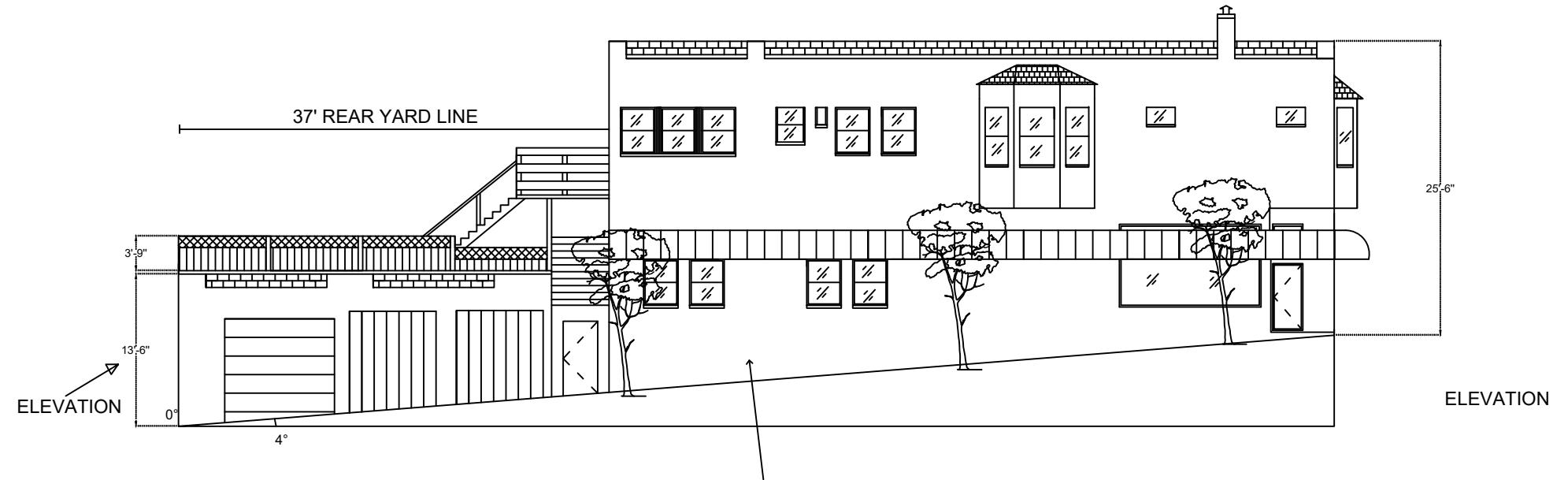
PROPERTY- 298 MUNICH STREET
SAN FRANCISCO, CA 94112

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CHECKED
DATE
06.13.2025
SCALE
AS NOTED

A-3

REVISIONS

No	DATE



DOUBLE HUNG
WINDOWS

SURFACE: STUCCO
WINDOWS: GLASS PANE AND
FIBERGLASS FRAME
DOORS: WOOD AND GLASS

4 EXISTING ELEVATION BRAZIL AVENUE
SCALE: 1/8"=1'-0"

PROPERTY- 298 MUNICH STREET
SAN FRANCISCO, CA 94112

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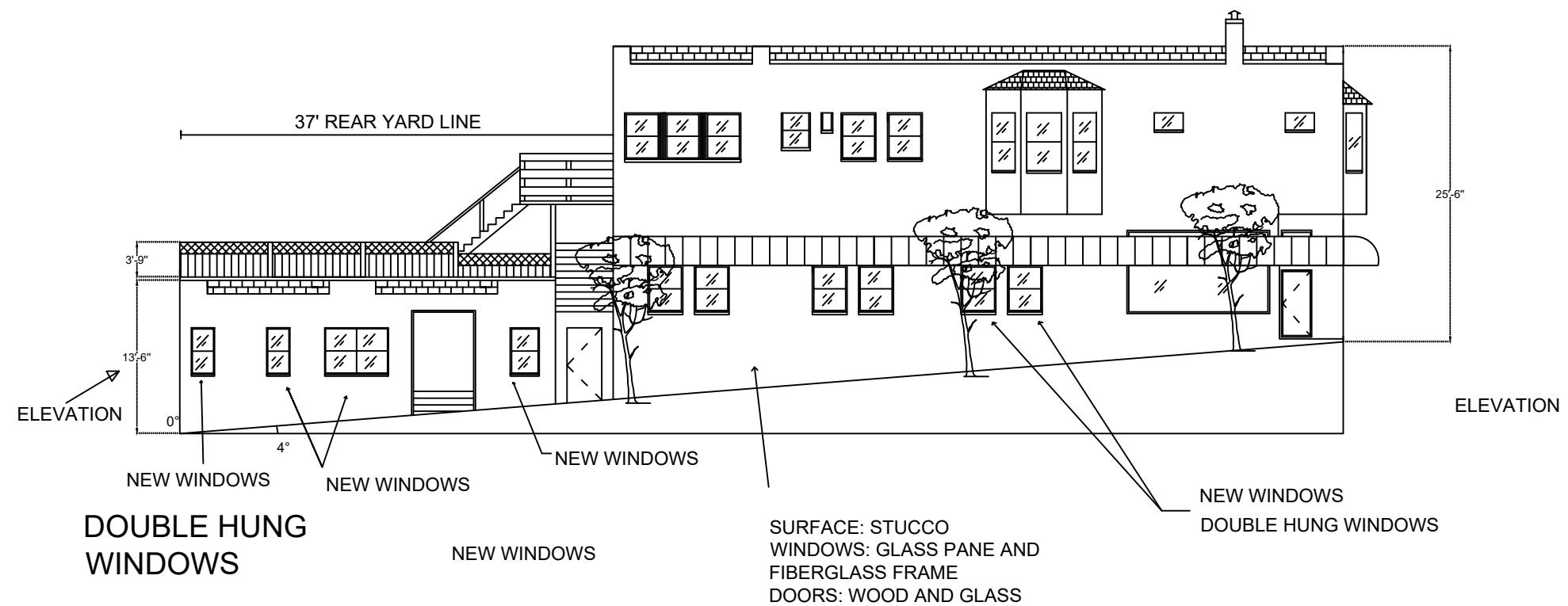
1 OF 38

A-4

REVISIONS

No	DATE

PROPERTY- 298 MUNICH STREET
SAN FRANCISCO, CA 94112



5 PROPOSED ELEVATION BRAZIL AVENUE

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

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DATE
06.13.2025
SCALE
AS NOTED

A-5

REVISIONS

No	DATE

PROPERTY- 298 MUNICH STREET
SAN FRANCISCO, CA 94112

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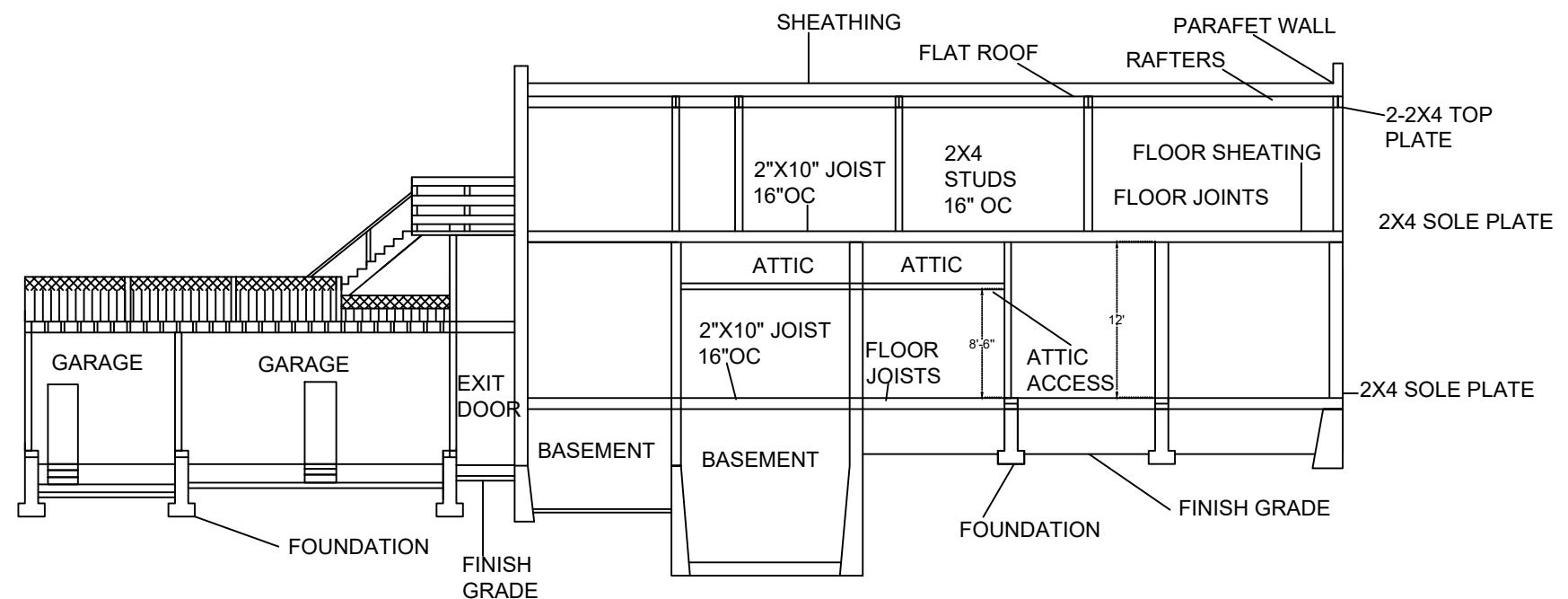
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DATE

06.13.2025

SCALE

AS NOTED



EXISTING SECTION A-A

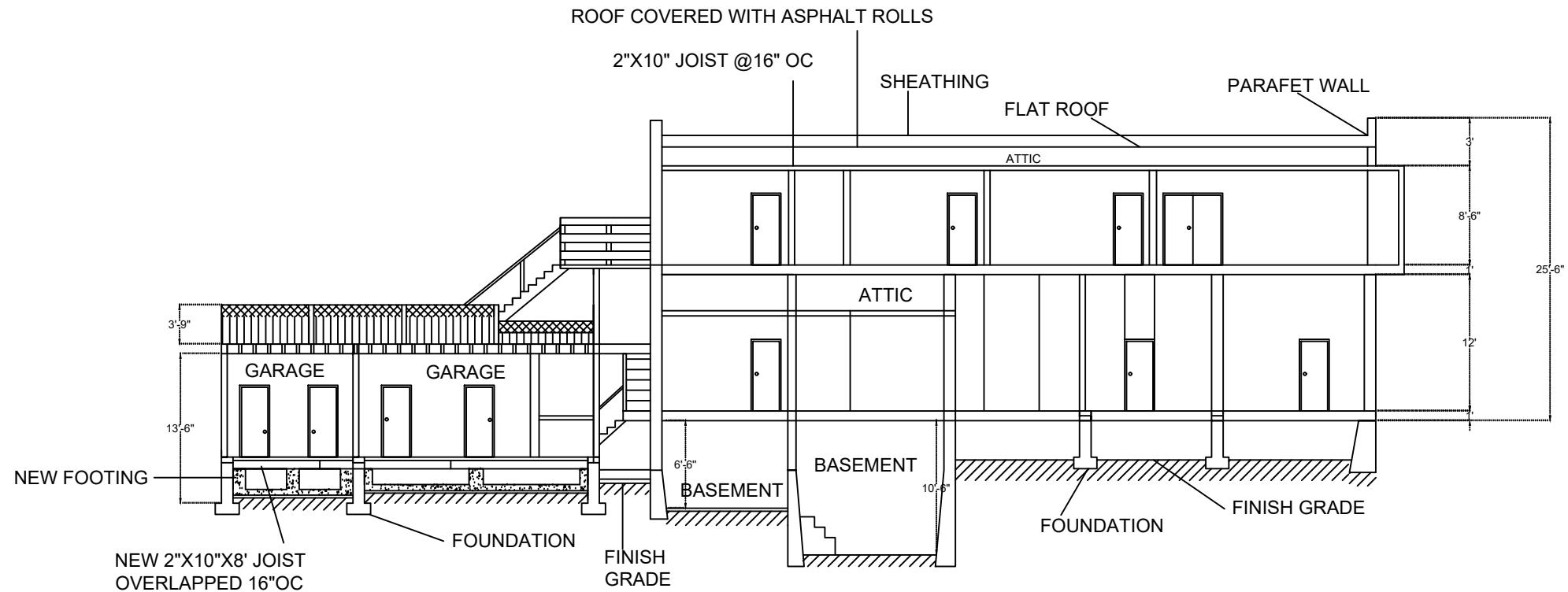
6 SCALE: 1/8"=1'-0"

A-6

REVISIONS

No	DATE

PROPERTY - 298 MUNICH STREET
SAN FRANCISCO, CA 94112



6 PROPOSED SECTION A-A
SCALE: 1/8"=1'-0"

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06.13.2025
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AS NOTED

A-7

BUILDING CODE EXPERTS
ARCHITECTS AND MEP
DESIGNERS

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SAN FRANCISCO, CA 94112

DRAWN
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DATE
06.13.2025
SCALE
AS NOTED
SHEET NUMBER
1 OF 38

A-8

W N
S E
6023

EXCELSIOR AVE.

MOSCOW

MUNICH

25	100	25	1	75	25
25		28	75	2	25
25		27	30	3	25
25			4	100	25
25			26		25
25				5	25
25			24	6	25
25			23		25
				8	25
				8 A	25
			22 A		25
25			22	9	25
25			21	10	25
25			20 A	11	25
25			20	12	25
25			19	13	25
25			18	14	25
25			17	15	25
25			16		25
25			16 A		
25			16 K		
25			16 C		25
25			16 B	16 F	25
25			16 L		25
25	100	16 L			
25	70	42	41	30	16 G
25	70	33	50	75	37
25	69	36	26	a 50	39
25	70	31	25	40	100 50
					25
					100 50
					25
					39 50

BRAZIL AVE

REVISIONS

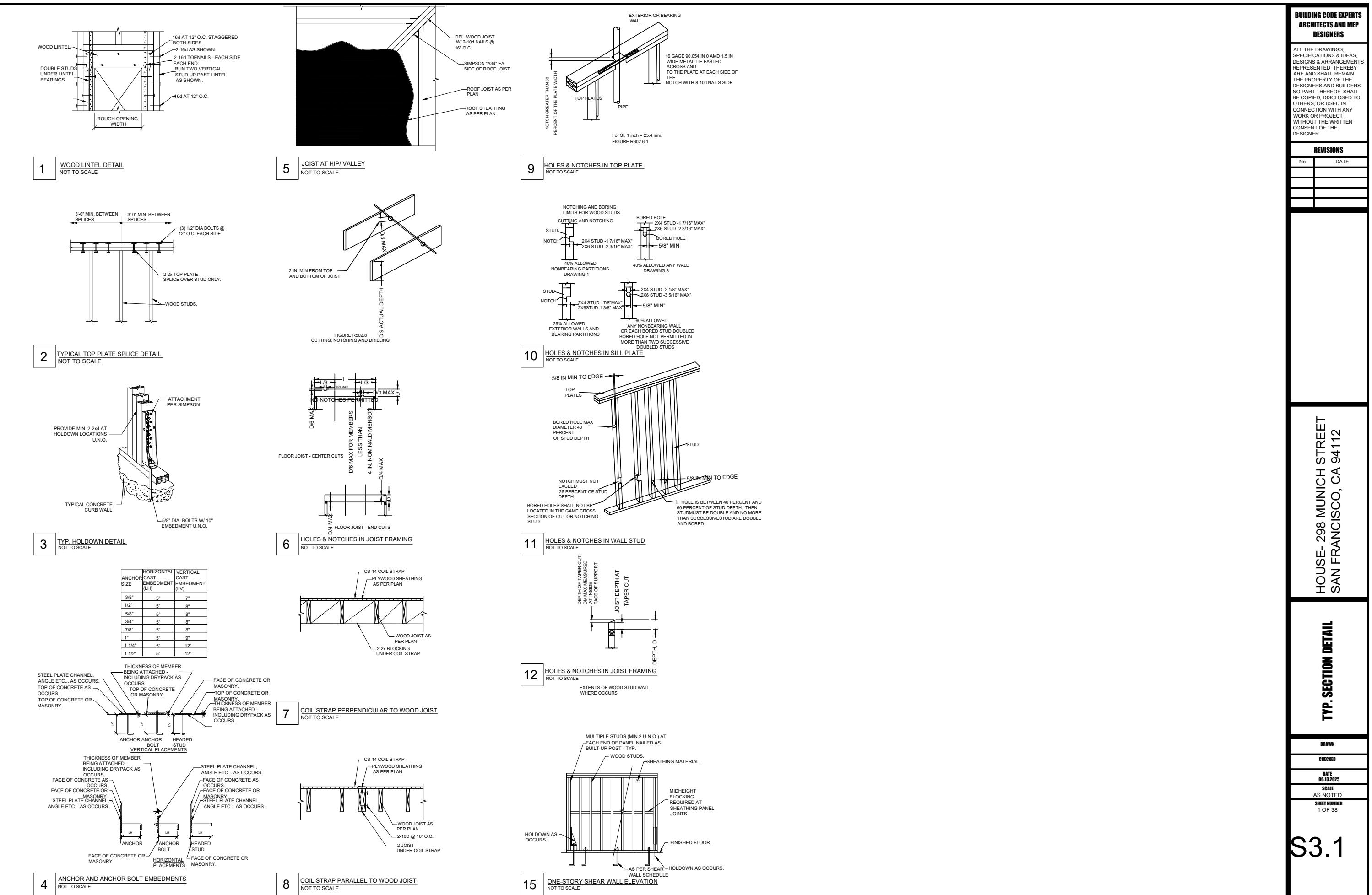
No	DATE

HOUSE-298 MUNICH STREET
SAN FRANCISCO, CA 94112

TYP. SECTION DETAIL

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DATE 06.10.2025
SCALE AS NOTED
SHEET NUMBER 1 OF 38

S3.1

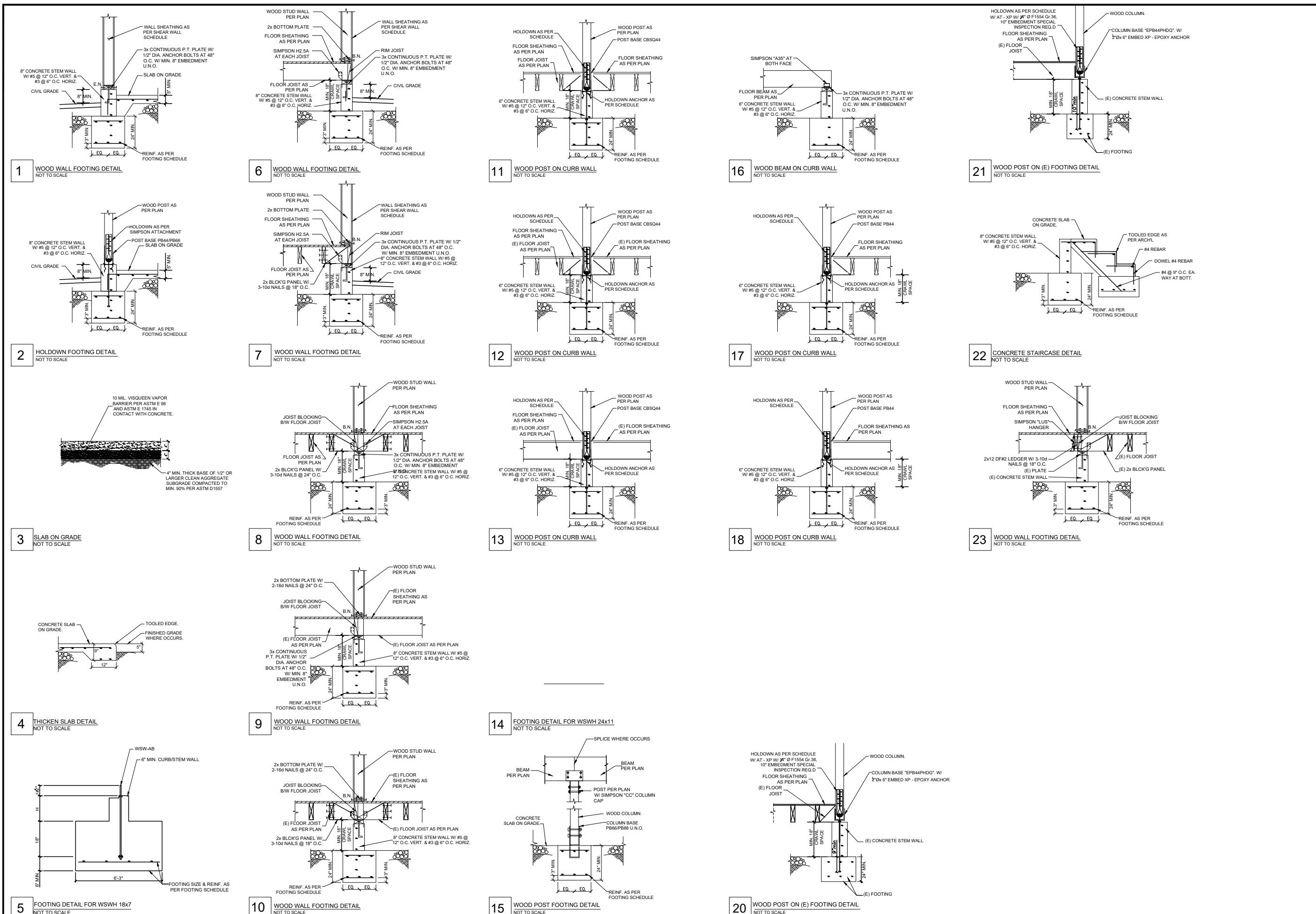


DATE

DOING SECTION DETAILS

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06.13.2025
SCALE
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SHEET NUMBER
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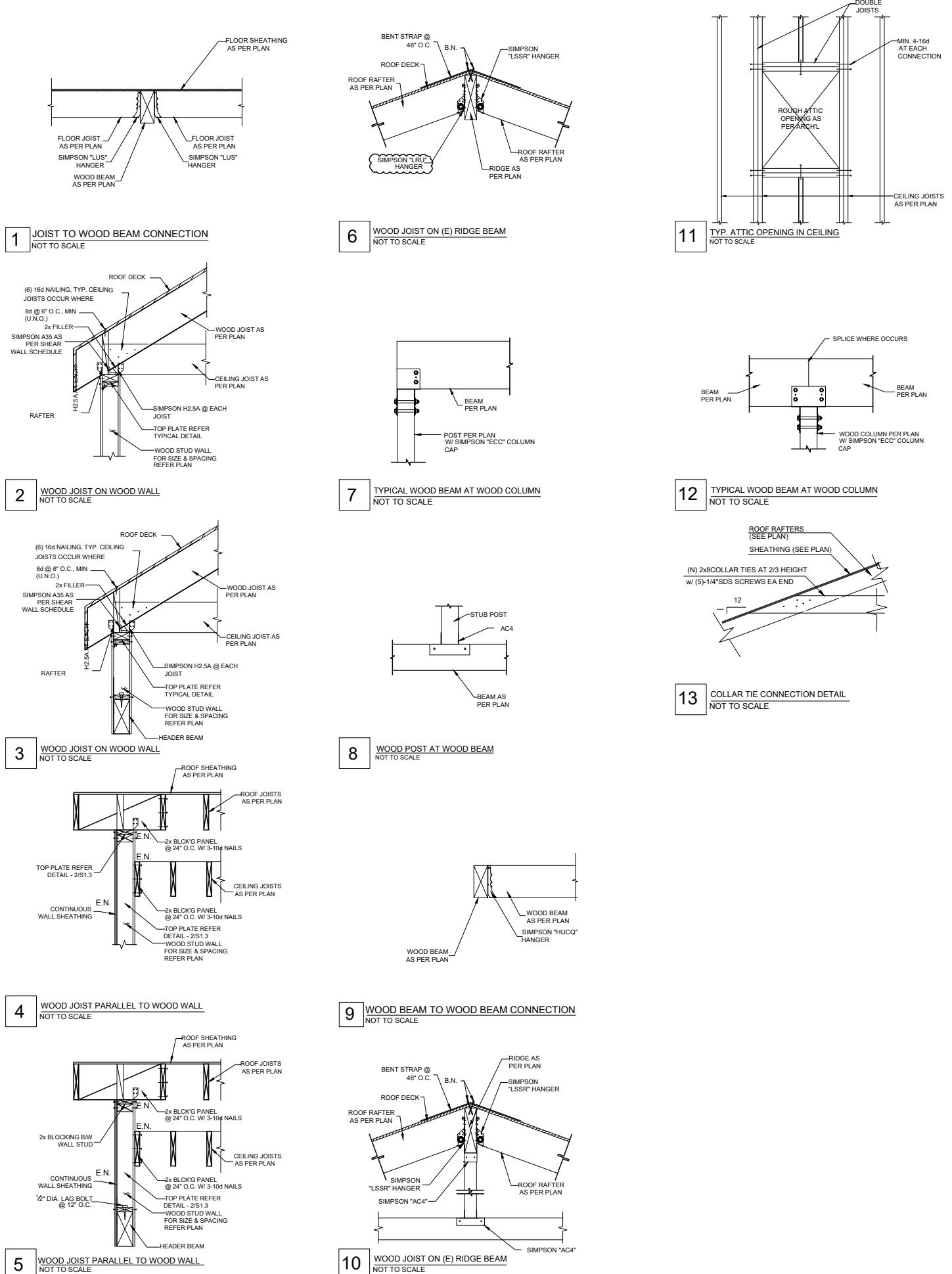
No	DATE

HOUSE- 298 MUNICH STREET
SAN FRANCISCO, CA 94112

FRAMING SECTION
DETAILS

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S3.2



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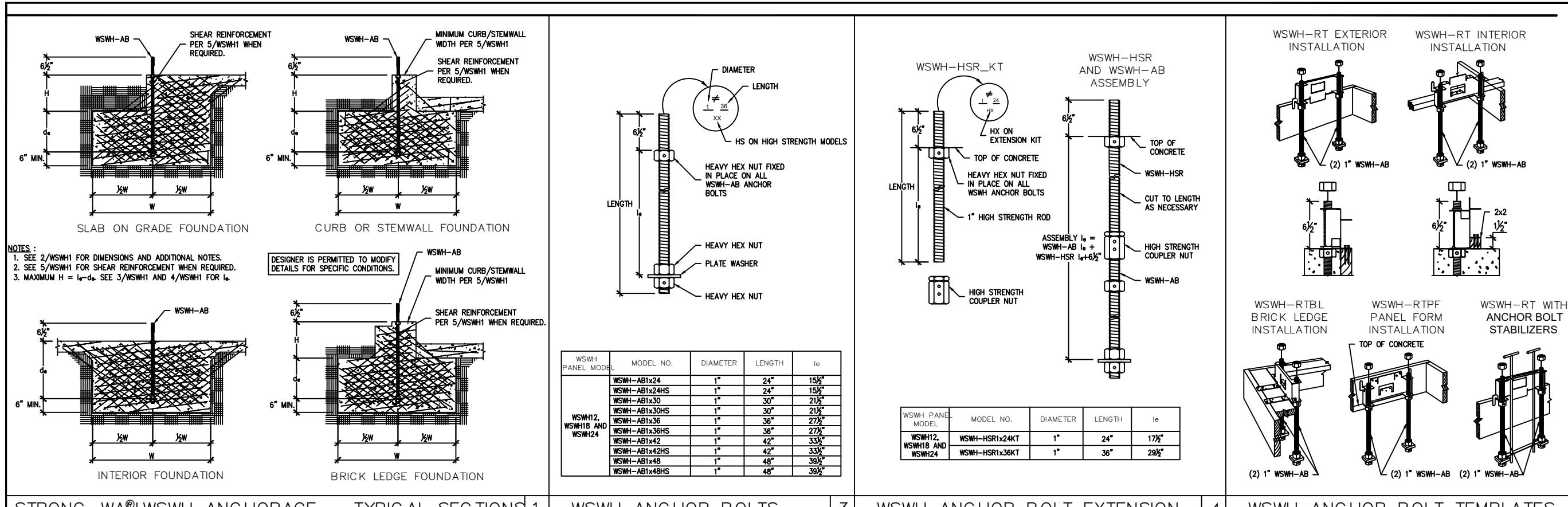
REVISIONS

No	DATE

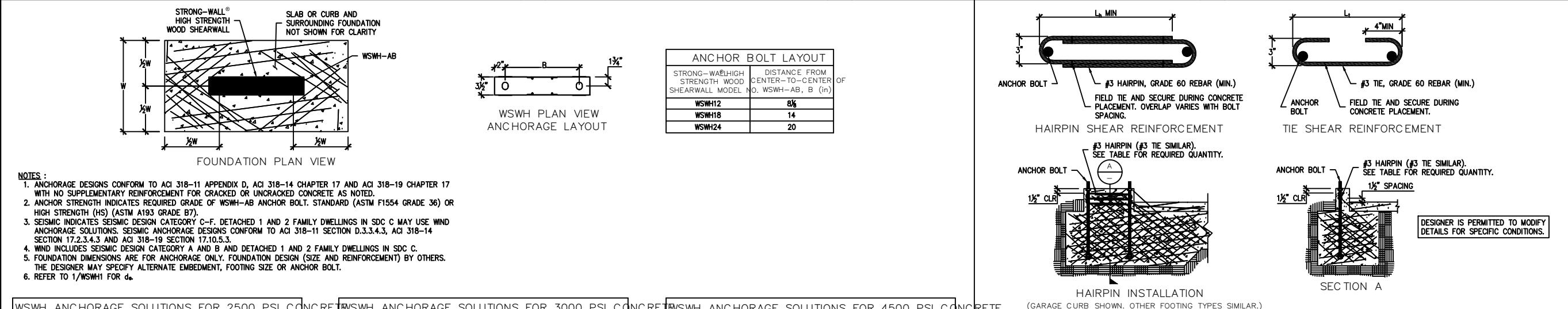
HOUSE-298 MUNICH STREET
SAN FRANCISCO, CA 94112

STRONG-WALL WSWH
ANCHORAGE DETAILS
ENGINEERED DESIGNS

S3.3



STRONG-WALL WSWH ANCHORAGE – TYPICAL SECTIONS 1 WSWH ANCHOR BOLTS 3 WSWH ANCHOR BOLT EXTENSION 4 WSWH ANCHOR BOLT TEMPLATES



WSWH ANCHORAGE SOLUTIONS FOR 2500 PSI CONCRETE				WSWH ANCHORAGE SOLUTIONS FOR 3000 PSI CONCRETE				WSWH ANCHORAGE SOLUTIONS FOR 4500 PSI CONCRETE													
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSWH-AB1 ANCHOR BOLT			DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSWH-AB1 ANCHOR BOLT			DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSWH-AB1 ANCHOR BOLT						
			ASD ALLOWABLE UPLIFT (lbs)	W (in)	d_e (in)				ASD ALLOWABLE UPLIFT (lbs)	W (in)	d_e (in)				ASD ALLOWABLE UPLIFT (lbs)	W (in)	d_e (in)				
SEISMIC	CRACKED	STANDARD	16,000	33	11	SEISMIC	CRACKED	STANDARD	16,000	31	11	SEISMIC	CRACKED	STANDARD	16,000	27	9				
		HIGH STRENGTH	17,100	35	12			HIGH STRENGTH	17,100	33	11			STANDARD	17,100	29	10				
			34,100	52	18				33,900	49	17			HIGH STRENGTH	34,700	44	15				
	UNCRAKED	STANDARD	36,800	55	19		UNCRAKED	STANDARD	16,300	27	9			STANDARD	15,700	23	8				
		HIGH STRENGTH	15,700	28	10			HIGH STRENGTH	17,100	28	10			HIGH STRENGTH	33,900	38	13				
			33,500	45	15				34,000	43	15			HIGH STRENGTH	36,800	40	14				
WIND	CRACKED	STANDARD	36,800	48	16		CRACKED	STANDARD	5,600	14	6			STANDARD	6,800	14	6				
		HIGH STRENGTH	6,200	16	6			HIGH STRENGTH	10,200	21	7			HIGH STRENGTH	11,600	20	7				
			11,400	24	8				17,100	30	10			HIGH STRENGTH	17,100	26	9				
	UNCRAKED	STANDARD	17,100	32	11		UNCRAKED	STANDARD	20,000	33	11			STANDARD	21,400	30	10				
		HIGH STRENGTH	21,100	36	12			HIGH STRENGTH	26,500	39	13			HIGH STRENGTH	28,400	36	12				
			27,300	42	14				33,600	45	15			HIGH STRENGTH	32,400	39	13				
NOTES :																					
1. SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-19, ACI 318-11 AND ACI 318-14 AND ASSUME MINIMUM 2,500 PSI CONCRETE.																					
2. SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE), OR BRACED WALL PANEL APPLICATIONS.																					
3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC SHEAR REINFORCEMENT DESIGNS CONFORM TO ACI 318-19, SECTION 17.10.6.3, ACI 318-14, SECTION 17.2.3.5.3.																					
4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B.																					
5. ADDITIONAL TIES MAY BE REQUIRED AT GARAGE CURB OR STEMWALL INSTALLATIONS BELOW ANCHOR REINFORCEMENT PER DESIGNER.																					
6. USE (1) #3 HAIRPIN FOR WSWH12 WHEN STANDARD STRENGTH ANCHOR IS USED.																					
7. USE (1) #3 TIE FOR WSWH12 WHEN PANEL DESIGN SHEAR FORCE EXCEEDS TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.																					
8. #4 GRADE 40 SHEAR REINFORCEMENT MAY BE SUBSTITUTED FOR WSWH SHEAR ANCHORAGE SOLUTIONS.																					
9. CONCRETE EDGE DISTANCE FOR ANCHORS MUST COMPLY WITH ACI 318-19 SECTION 17.9.2, ACI 318-14 SECTION 17.7.2 AND ACI 318-11 SECTION D.8.2.																					
10. THE DESIGNER MAY SPECIFY ALTERNATE SHEAR ANCHORAGE.																					

No	Date

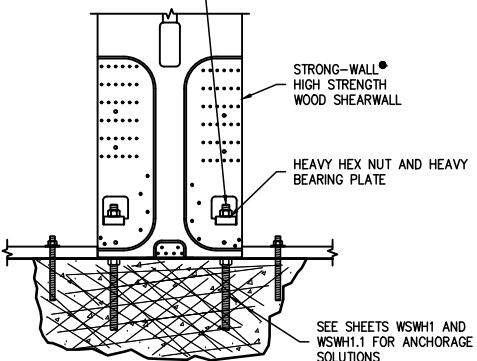
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CHECKED
DATE 06.12.2025
SCALE AS NOTED
SHEET NUMBER 1 OF 38

STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL MODELS

MODEL NO.	W (in.)	H (in.)	ANCHOR BOLTS QUANTITY	DIA. (in.)	TOTAL WALL WEIGHT (lb.)
WSWH12x7	12	84	2	1	105
WSWH18x7	18	84	2	1	155
WSWH12x8	12	96	2	1	120
WSWH18x8	18	96	2	1	175
WSWH24x8	24	96	2	1	225
WSWH12x9	12	108	2	1	130
WSWH18x9	18	108	2	1	195
WSWH24x9	24	108	2	1	250
WSWH12x10	12	120	2	1	145
WSWH18x10	18	120	2	1	210
WSWH24x10	24	120	2	1	275
WSWH12x12	12	144	2	1	165
WSWH18x12	18	144	2	1	245
WSWH24x12	24	144	2	1	325
WSWH18x14	18	168	2	1	285
WSWH24x14	24	168	2	1	370
WSWH24x16	24	192	2	1	420
WSWH18x20	18	240	2	1	390
WSWH24x20	24	240	2	1	520

NOTES :
1. FOR HEIGHTS NOT LISTED, ORDER THE NEXT TALLEST PANEL AND TRIM TO FIT.
MINIMUM TRIMMED HEIGHT FOR ALL PANELS IS 7 1/2".
2. ALL PANELS COME WITH PRE-ATTACHED HOLDOWNS, TWO HEAVY HEX NUTS, TWO
HEAVY BEARING PLATES, ONE WSWH-TP TOP CONNECTION PLATE WITH REQUIRED
FASTENERS AND INSTALLATION INSTRUCTIONS.
3. ALL PANELS ARE 3/8" THICK.

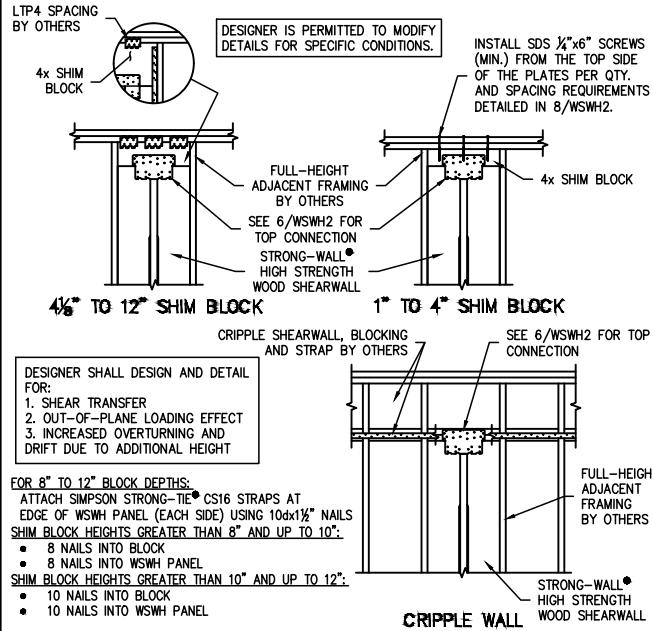
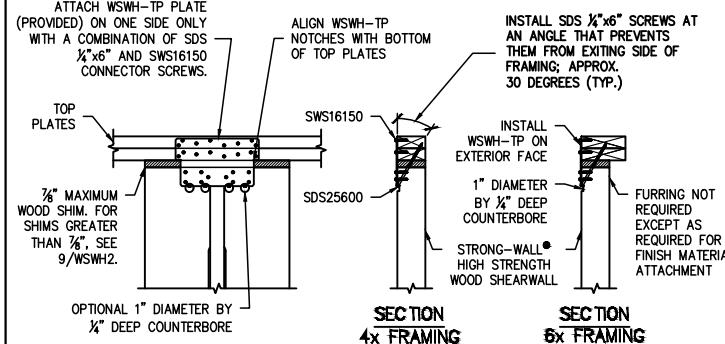
PLACE STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL OVER THE ANCHOR BOLTS AND SECURE WITH HEAVY BEARING PLATES AND HEAVY HEX NUTS (PROVIDED). DO NOT USE AN IMPACT WRENCH. USE 1 1/8" WRENCH FOR 1" NUT. TIGHTEN ANCHOR NUTS FINGER TIGHT + 1/2 TURN.



DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

WSWH-TP CONNECTION	FASTERNER QUANTITY
MODEL NO.	SWSH150 SDS25600
WSWH-TP12	14 2
WSWH-TP18	26 4
WSWH-TP24	46 8

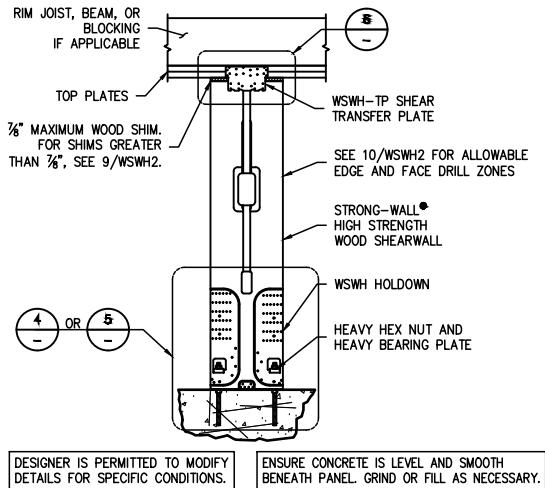
DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



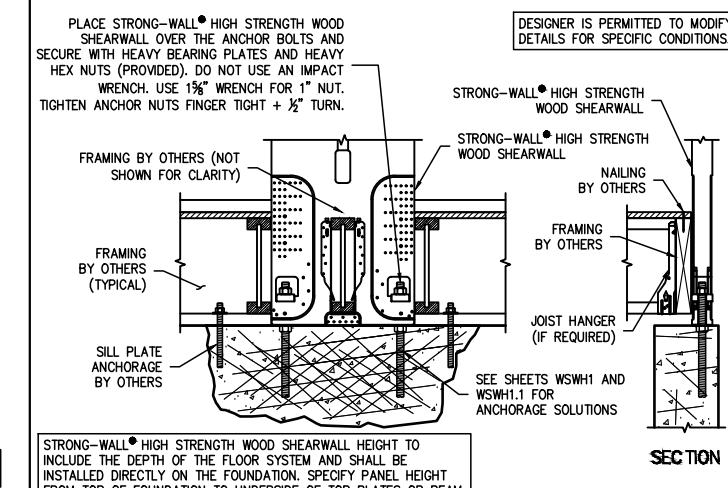
TOP OF WALL HEIGHT ADJUSTMENTS 9

STRONG-WALL® WSWH MODELS 1

STANDARD INSTALLATION BASE CONNECTION 4



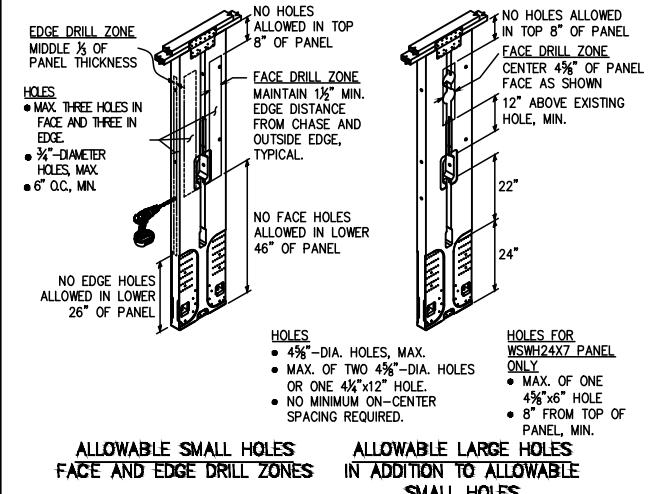
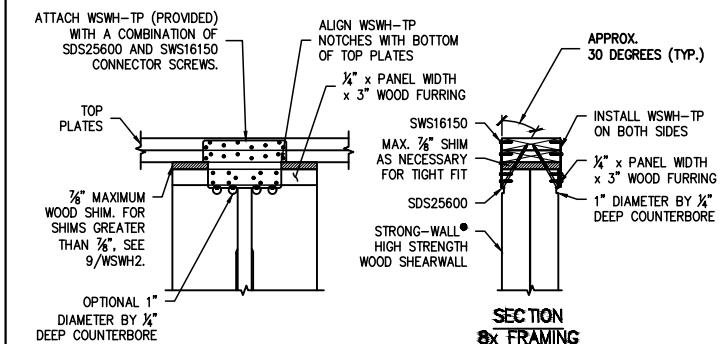
DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



TOP CONNECTION 6

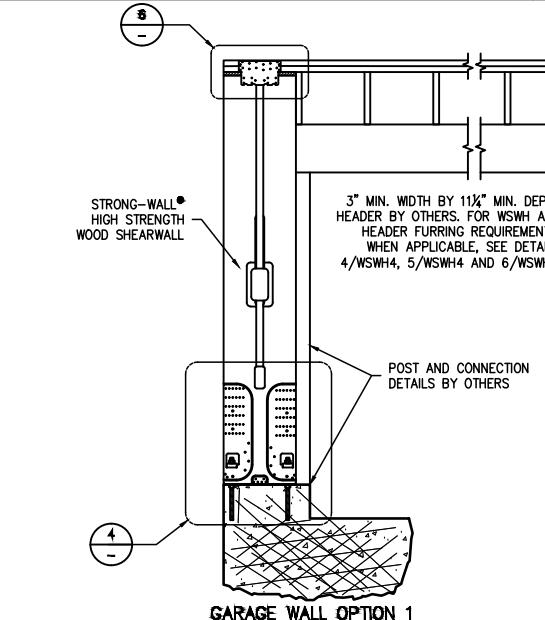
WSWH-TP CONNECTION	FASTERNER QUANTITY
MODEL NO.	SWSH150 SDS25600
WSWH-TP12	28 4
WSWH-TP18	52 8
WSWH-TP24	92 16

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

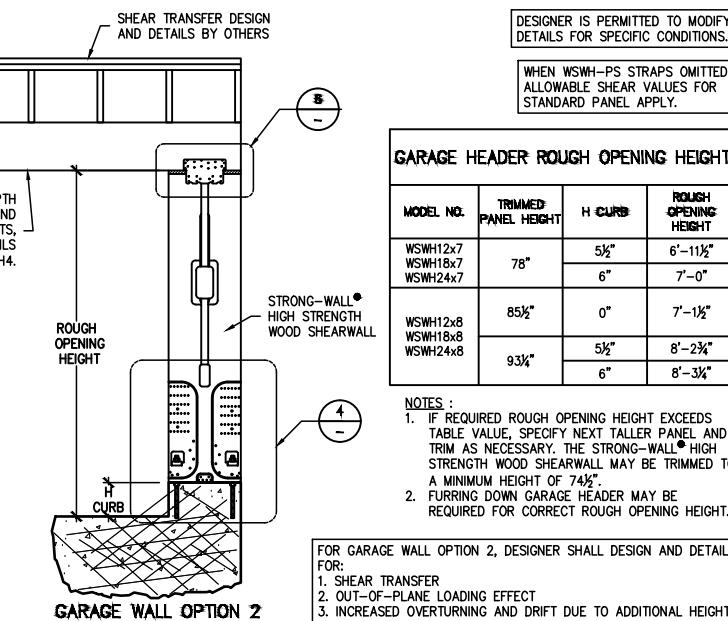


SINGLE STORY WSWH ON CONCRETE 2

WOOD FLOOR SYSTEM BASE CONNECTION 5



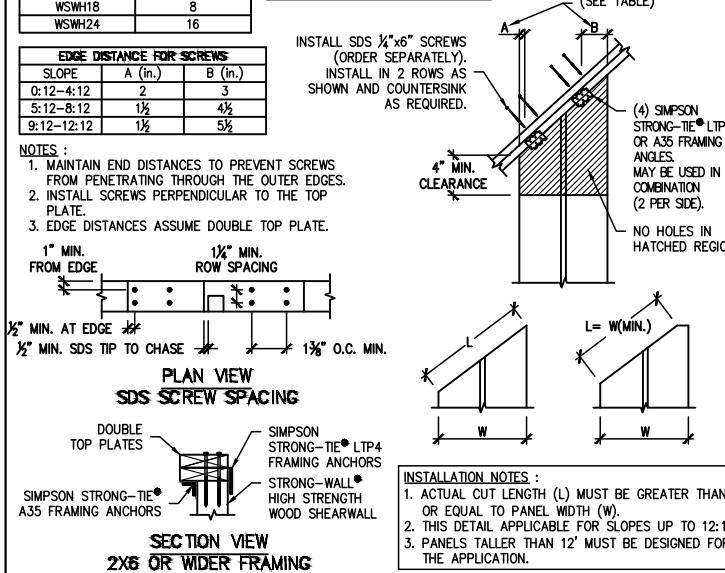
DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



BACK-TO-BACK TOP CONNECTION 7

QTY. OF SDS 1/4" X 6" SCREWS REQ'D.	
WSWH12	4
WSWH18	8
WSWH24	16

DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



1. STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL IS MANUFACTURED AND TRADEMARKED BY "SIMPSON STRONG-TIE COMPANY INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY INC." IS AN ISO 9001-2008 REGISTERED COMPANY.
2. USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
3. THIS PRODUCT IS PART OF THE OVERALL LATERAL FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S LATERAL FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER LATERAL FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE DESIGNER.
4. ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ELEVATIONS, ETC. PRIOR TO INSTALLATION OF ANY COMPONENTS FOR THE STRONG-WALL® SB SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
6. INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE DESIGNER.
7. SIMPSON STRONG-TIE COMPANY INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
8. ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.
9. SEE ICC-ES ESR-2652 OR CITY OF LOS ANGELES RR25730 AS APPLICABLE FOR ADDITIONAL INFORMATION.

ALTERNATE WSWH GARAGE FRONT OPTIONS

3

RAKE WALL

NOTES 11