CODE: INTERNATIONAL BUILDING CODE (IBC)	2018
LOADINGS FLOOR LIVE LOAD DECK LIVE LOAD ROOF SNOW LOAD	40 PSF 60 PSF 25 PSF
WIND CRITERIA BUILDING CLASSIFICATION ULTIMATE WIND SPEED WIND EXPOSURE TOPOGRAPHIC FACTOR, Kzt	ll 97 MPH B 1.0
SEISMIC CRITERIA SEISMIC RISK CATEGORY SPECTRAL RESPONSE COEFFICIENT, Ss SPECTRAL RESPONSE COEFFICIENT, S1 SEISMIC SITE CLASS SEISMIC DESIGN CATEGORY	ll 1.405 0.489 D D
STRUCTURAL DESCRIPTIONS	

GENE	ERAL CONDITIONS
WITH	THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE ICTURAL ENGINEER IN WRITING OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING THE WORK. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE DITIONS BEFORE STARTING WORK.
	ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING VINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL NEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
	SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND CAL DETAILS. WHERE THE NOTES, DRAWINGS, AND/OR SPECIFICATIONS DIFFER, THE MORE NGENT REQUIREMENT SHALL APPLY.
4. SHAL	IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION L BE THE SAME AS FOR SIMILAR WORK.
5. THES	WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON E DRAWINGS.
	THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL NEER OF ANY CONDITION THAT, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE ICTURE OR CAUSE DISTRESS TO THE STRUCTURE.
PROC	THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND HE SHALL BE SOLELY CONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND CEDURES. PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS NG CONSTRUCTION. NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.
8. GENE	REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT COVERED BY THESE ERAL NOTES OR THE STRUCTURAL DRAWINGS.
THE F	ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP PTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY AND IN CONFORMANCE WITH PROVISIONS OF PREVAILING CODE EDITION OF THE "INTERNATIONAL BUILDING CODE" (IBC) STANDARDS REFERENCED THEREIN.
	PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., SHALL NOT ACED IN SLABS, FOUNDATIONS, ETC., NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR I ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.
11. MAY F	ALTERNATE ASSEMBLIES AND MATERIALS WILL BE CONSIDERED FOR REVIEW. ENGINEER REQUEST PAYMENT FOR REVIEW.
FOUN	IDATION
1.	STRUCTURAL DESIGN COMPLIES WITH SOILS REPORT PRODUCED BY: N.A.
	FOOTING BEARING PRESSURE: 1500 PSF (ASSUMED)
	LATERAL EARTH PRESSURE ON RETAINING WALLS N.A.
2	SUBGRADE PREPARATION DRAINAGE PROVISIONS AND OTHER RELEVANT SOIL

SUBGRADE PREPARATION, DRAINAGE PROVISIONS, AND OTHER RELEVANT SOIL 2. CONSIDERATIONS ARE TO BE IN ACCORDANCE WITH SAID SOILS REPORT.

DIMENSIONAL LUMBER, ANCHOR BOLT AND NAILING SPECIFICATIONS

1. MEET REQUIREMENTS OF PS 20-70 AND NATIONAL GRADING RULES FOR SOFTWOOD DIMENSIONAL LUMBER. BEAR STAMP OF WWPA.

2. MINIMUM DIMENSIONAL LUMBER GRADES TO BE:

WALL STUDS, 2X, 3 X	HF STUD GRADE
WALL PLATES, 2X, 3X	HF STANDARD GRADE U.N.O
JOISTS, 2 X 6:	HF #2
JOISTS, 2 X 8 AND UP	DF #2
BEAMS, HEADERS, 6X	DF #2
BEAMS, HEADERS, 4X	DF #2, WWPA GRADING
POSTS, 4X, 6X	DF #2 U.N.O
LUMBER NOT NOTED HERE	DF #2 U.N.O

3. PROVIDE STANDARD CUT WASHERS FOR BOLT HEADS AND NUTS BEARING AGAINST WOOD.

4. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY THAT IS IN CONTACT WITH OR RESTING ON FOUNDATIONS SHALL BE PRESSURE-TREATED DOUGLAS FIR/ HEMFIR IN ACCORDANCE TO WITH AWPA U1 (PLANT/SHOP TREATMENT) AND M4 (FIELD TREATMENT) STANDARDS. ALL BEARING WALL PLATES SHALL HAVE 5/8" 🖉 x10" J-BÒLTS PLACED AT MAXIMUM OF 9" FROM THE END OF A PLATE AND SPACED AT INTERVALS SHOWN ON THE SHEARWALL SCHEDULE (MAXIMUM 4'-0" OC SPACING). PROVIDE BP PLATE WASHER AT ALL FOUNDATION SILL PLATE ANCHOR BOLTS. PROVIDE TWO ANCHOR BOLTS MINIMUM PER SECTION OF SILL. FOR NON-SHEARWALL, PLACE ANCHORS AT 48".

5. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER.

6. NAILS: COMMON WIRE NAILS. NAILING IN ACCORDANCE WITH IBC TABLE 2304.9.1.

7. PRESSURE TREATED WOOD: ALL NAILS INTO PT WOOD SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR STAINLESS STEEL. ALL METAL CONNECTORS IN CONTACT WITH PT WOOD SHALL BE HOT DIPPED GALVANIZED AND MEET ASTM A653 CLASS G185 (1.85 OZ OF ZINC PER SQ FT MINIMUM) OR TYPE 304 / 316 STAINLESS STEEL SIMPSON Z-MAX CONNECTORS MEET THIS REQUIREMENT. FASTENERS AND CONNECTORS USED TOGETHER SHALL BE OF THE SAME TYPE (E.G. HOT DIPPED NAILS WITH HOT DIPPED HANGERS)

8. ALL LUMBER WITH A LEAST DIMENSION OF 2" (NOMINAL) SHALL BE STAMPED "SURFACE-DRY" AND SHALL HAVE A MOISTURE CONTENT WHEN SURFACED AND WHEN INSTALLED OF NO MORE THAN 19 PERCENT. LUMBER WITH A LEAST DIMENSION OF 4" (NOMINAL) OR GREATER SHALL BE STAMPED "SURFACE-GREEN" AND AIR-DRIED TO A MOISTURE CONTENT OF NOT MORE THAN 19 PERCENT PRIOR TO ITS USE IN FRAMING THE STRUCTURE.

9. NOTCHING AND BORING OF BEAMS AND JOISTS IS NOT ALLOWED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

Y N					
	1704.2.5 Inspection of Fabricators Verify fabrication/quality control procedures	Periodic			1705.4 Masonry Construction (A) Level A, B and C Quality Assurance:
Y N	1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials		Y	Ν	1. Verify compliance with approved submittals (B) Level B Quality Assurance:
	and systems, unusual design applications, materials and systems with special manufacturer's requirements)		Y	Ν	 Verification of f'm and f'AAC prior to construction (C) Level C Quality Assurance:
			Y Y	N N	 Verification of f'm and f'AAC prior to construction and for every 5,000 SF during construction Verification of proportions of materials in premixed or preblended mortar, prestressing grout, and
Y N	1705.2 Steel Construction Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter 	Each submittal	Y	Ν	grout other than self-consolidating grout, as delivered to the project site 3. Verify placement of masonry units
Y N	N, paragraph 3.2 for compliance with construction documents) 2. Material verification of structural steel	Periodic	Y	Ν	(D) Levels B and C Quality Assurance: 1. Verification of Slump Flow and Visual Stability Index (VSI) of self-consolidating grout as delivered
Y N Y N	 Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors) Verify member locations, braces, stiffeners, and application of joint details at each connection 	Continuous Periodic	Y	Ν	to the project 2. Verify compliance with approved submittals
	comply with construction documents 5. Structural steel welding:		Y Y	N N	 Verify proportions of site-mixed mortar, grout and prestressing grout for bonded tendons Verify grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and
Y N	a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Observe or Perform as noted (4)	Y	N	anchorages 5. Verify construction of mortar joints
Y N	b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Observe (4)	Y	N	6. Verify placement of reinforcement, connectors, and prestressing tendons and anchorages
Y N	c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)	Observe or Perform as noted (4)	Y	N	7. Verify grout space prior to grouting
Y N Y N	 d. Nondestructive testing (NDT) of welded joints: see Commentary 1) Complete penetration groove welds 5/16" or greater in risk category III or IV 2) Complete penetration groove welds 5/16" or greater in risk category II 	Periodic Periodic	Y	N N N	 Verify placement of grout and prestressing grout for bonded tendons Verify size and location of structural masonry elements Verify type, size, and location of anchors, including details of anchorage of masonry to structural
Y N Y N	 2) Complete penetration groove welds 5/16 of greater in risk category in 3) Thermally cut surfaces of access holes when material t > 2" 4) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1 	Periodic Periodic	v	N	members, frames, or other construction. 11. Verify welding of reinforcement (see 1705.2.2)
Y N	5) Fabricator's NDT reports when fabricator performs NDT 6. Structural steel bolting:	Each submittal (5)	Ý	N	12. Verify preparation, construction, and protestion of masonry during cold weather (temperature below 40oF) or hot weather (temperature above 90oF)
Y N	a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)	Observe or Perform as noted (4)	Y Y	N N	 Verify application and measurement of prestressing force Verify placement of AAC masonry units and construction of thin-bed mortar joints (first 5000 SF
Y N	b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2) 1) Pre-tensioned and slip-critical joints	Observe (4)	Y	N	of AAC masonry) 15. Verify placement of AAC masonry units and construction of thin-bed mortar joints (after the first
Y N Y N	a) Turn-of-nut with matching markings b) Direct tension indicator	Periodic Periodic	Y	Ν	5000 SF of AAC masonry) 16. Verify properties of thin-bed mortar for AAC masonry (first 5000 SF of AAC masonry)
Y N Y N	 c) Twist-off type tension control bolt d) Turn-of-nut without matching markings 	Periodic Continuous	Y	Ν	17. Verify properties of thin-bed mortar for AAC masonry (after the first 5000 SF of AAC masonry)
Y N	e) Calibrated wrench 2) Snug-tight joints	Continuous Periodic	Y	Ν	18. Prepare grout and mortar specimens
Y N	c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)	Perform (4)	Y	Ν	19. Observe preparation of prisms
Y N	7. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1	Observe or Perform as noted (4)	Y	Ν	1705.5 Wood Construction Inspection of the fabrication process of wood structural elements and assemblies in accordance
	1705.2.2 Steel Construction Other Than Structural Steel		Y	Ν	with Section 1704.2.5 2. For high-load diaphragms, verify grade and thickness of structural panel sheathing agree with
Y N	 Material verification of cold-formed steel deck: a. Identification markings 	Periodic	Y	Ν	approved building plans 3. For high-load diaphragms, verify nominal size of framing members at adjoining panel edges, nail
Y N	 b. Manufacturer's certified test reports 2. Connection of cold-formed steel deck to supporting structure: 	Each submittal			or staple diameter and length, number of fastener lines, and that spacing between fasteners in each line and at edge margins agree with approved building plans
Y N Y N	a. Welding b. Other fasteners (in accordance with AISC 360,Section N6)	Periodic	Y	Ν	4. Metal-plate-connected wood trusses spanning 60 feet or greater: verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package
Y N Y N	 Verify fasteners are in conformance with approved submittal Verify fastener installation is in conformance with approved submittal and manufacturer's 	Periodic Periodic			1705.6 Soils
	recommendations 3. Reinforcing steel		Y	N	 Verify materials below shallow foundations are adequate to achieve the design bearing capacity. Verify excavations are extended to proper depth and have reached proper material.
Y N Y N	a. Verification of weldability of steel other than ASTM A706 b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames,	Periodic Continuous	Y Y	N N	 Perform classification and testing of controlled fill materials. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of
Y N	boundary elements of special concrete structural walls and shear reinforcement c. Shear reinforcement	Continuous	Y	N	controlled fill 5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared
Y N Y N	d. Other reinforcing steel 4. Cold-formed steel trusses spanning 60 feet or greater	Periodic	Y	Ν	
Y N	a. Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Periodic	Y Y	N N	1705.7 Driven Deep Foundations Verify element materials, sizes and lengths comply with requirements
Y N	1705.3 Concrete Construction	Periodic.	Y Y	N N	 Determine capacities of test elements and conduct additional load tests, as required Observe driving operations and maintain complete and accurate records for each element Varify element leastings and elements are additional load tests.
Y N Y N	 Inspection of reinforcing steel installation (see 1705.2.2 for welding) Inspection of prestressing steel installation Inspection of anchors cast in concrete where allowable loads have been increased per section 	Periodic Continuous	I	IN	4. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element
Y N	 Inspection of anchors cast in concrete where anowable loads have been increased per section 1908.5 or where strength design is used Inspection of anchors and reinforcing steel post-installed in hardened concrete: Per research 	Periodic or as required by the research report issued by an	Y Y	N N	 5. For steel elements, perform additional inspections per Section 1705.2 6. For concrete elements and concrete-filled elements, perform additional inspections per Section
0	reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and	approved source	Ŷ	N	1705.3 7. For specialty elements, perform additional inspections as determined by the registered design
Y N	tightening torque 5. Verify use of approved design mix	Periodic	Ŷ	N	professional in responsible charge 8. Perform additional inspections and tests in accordance with the construction documents
Y N	6. Fresh concrete sampling, perform slump and air content tests and determine temperature of concrete	Continuous			1705.8 Cast-in-Place Deep Foundations
Y N Y N	 Inspection of concrete and shotcrete placement for proper application techniques Inspection for maintenance of specified curing temperature and techniques 	Continuous Periodic	Y Y	N N	1.Observe drilling operations and maintain complete and accurate records for each element 2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if
Y N	 9. Inspection of prestressed concrete: a. Application of prestressing force 	Continuous			applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes
Y N	 b. Grouting of bonded prestressing tendons in the seismic-force-resisting system 10. Erection of precast concrete members 	Continuous	Y Y	N N	 For concrete elements, perform additional inspections in accordance with Section 1705.3 Perform additional inspections and tests in accordance with the construction documents
Y N Y N	a. Inspect in accordance with construction documents b. Perform inspections of welding and bolting in accordance with Section 1705.2	In accordance with construction documents In accordance with Section 1705.2			1705.9 Helical Pile Foundations
Y N	11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs	Periodic	Y	N	1. Verify installation equipment, pile dimensions, tip elevations, final depth, final installation torque and other data as required.
Y N Y N	 Inspection of formwork for shape, lines, location and dimensions Concrete strength testing and verification of compliance with construction documents 	Periodic Periodic	Y	Ν	2. Perform additional inspections and tests in accordance with the construction documents
			Y Y	N	1705.10.1 Structural Wood Special Inspections For Wind Resistance Inspection of field gluing operations of elements of the main windforce-resisting system
	Notes: 1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and		Y	Ν	Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system
	not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of		V	N	1705.10.2 Cold-formed Steel Special Inspections For Wind Resistance
	the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.		Ϋ́	N N	1.Inspection during welding operations of elements of the main windforce-resisting system 2.Inspections for screw attachment, bolting, anchoring and other fastening of components within the
	2. The list of Special Inspectors may be submitted as a separate document, if noted so above.				main windforce-resisting system
	3. Special Insepctions as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2		Y	N N	1705.10.3 Wind-resisting Components 1. Roof cladding
	4. Observe on a random basis, operations need not be delayed pending these inspections. Perform		Ŷ	N	2. Wall cladding
	these tasks for each welded joint, bolted connection, or steel element.				1705.11.1 Structural Steel Special Inspections for Seismic Resistance Inspection of structural steel in accordance with AISC 341
	5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.		Y Y	N N	1705.11.2 Structural Wood Special Inspections for Seismic Resistance 1. Inspection of field gluing operations of elements of the seismic-force resisting system 2. Inspection of nailing, bolting, anchoring and other fastening of components within the seismic- force-resisting system
NCRETE AND F	EINFORCING				1705.11.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic
	E SHALL CONFORM TO THE INDICATED REFERENCE CODES AND STANDARDS		Y	N	Resistance 1. Inspection during welding operations of elements of the seismic-force-resisting system
	S MODIFIED BELOW: STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"		Y	N	 Inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system
	STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" "HOT WEATHER CONCRETING"				
ACI-305R - ACI-306R -	"COLD WEATHER CONCRETING" GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"	STRUCTURAL AND MISCELLAN	IEOUS STEE	L	

DEOLIDI			EXTENT			
	ED? (Y/N) N	MATERIAL / ACTIVITY 1704.2.5 Inspection of Fabricators	Periodic	REQUIRED?	(1/11)	MATERIAL / ACTIVITY 1705.4 Masonry Construction
·		Verify fabrication/quality control procedures		Y	N	(A) Level A, B and C Quality Assurance: 1. Verify compliance with approved submittals
Y	Ν	1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and systems, unusual design applications, materials and systems with special manufacturer's			N	(B) Level B Quality Assurance: 1. Verification of f'm and f'AAC prior to construction
		requirements)			N	 (C) Level C Quality Assurance: 1. Verification of f'm and f'AAC prior to construction and for every 5,00
		1705.2 Steel Construction			N	 Verification of proportions of materials in premixed or preblended m grout other than self-consolidating grout, as delivered to the project sit
Y	Ν	1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter	Each submittal	Y	N	 3. Verify placement of masonry units (D) Levels B and C Quality Assurance:
Ŷ	N	N, paragraph 3.2 for compliance with construction documents) 2. Material verification of structural steel	Periodic	Y	N	1. Verification of Slump Flow and Visual Stability Index (VSI) of self-co
Ý Y	N N	 Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for anchors) Verify member locations, braces, stiffeners, and application of joint details at each connection 	Continuous Periodic		N	to the project 2. Verify compliance with approved submittals
		comply with construction documents 5. Structural steel welding:			N N	 Verify proportions of site-mixed mortar, grout and prestressing grou Verify grade, type, and size of reinforcement and anchor bolts, and
Y	N	a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Observe or Perform as noted (4)		N	anchorages 5. Verify construction of mortar joints
Y	Ν	 b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1) 	Observe (4)		N	6. Verify placement of reinforcement, connectors, and prestressing ter
Y	Ν	c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)	Observe or Perform as noted (4)		N	7. Verify grout space prior to grouting
Y	Ν	 d. Nondestructive testing (NDT) of welded joints: see Commentary 1) Complete penetration groove welds 5/16" or greater in risk category III or IV 	Periodic	Y	N N	 8. Verify placement of grout and prestressing grout for bonded tendors 9. Verify size and location of structural masonry elements
Y Y	N N	 Complete penetration groove welds 5/16" or greater in risk category II Thermally cut surfaces of access holes when material t > 2" 	Periodic Periodic	Y	N	 Verify type, size, and location of anchors, including details of anch members, frames, or other construction.
Y Y	N N	 Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1 Fabricator's NDT reports when fabricator performs NDT 	Periodic Each submittal (5)		N N	 Verify welding of reinforcement (see 1705.2.2) Verify preparation, construction, and protestion of masonry during
Y	Ν	6. Structural steel bolting: a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in	Observe or Perform as noted (4)	Y	N	below 40oF) or hot weather (temperature above 90oF) 13. Verify application and measurement of prestressing force
Y	Ν	accordance with QA tasks listed in AISC 360, Table N5.6-1) b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)	Observe (4)	Y	N	14. Verify placement of AAC masonry units and construction of thin-be of AAC masonry)
Y	Ν	 Pre-tensioned and slip-critical joints Turn-of-nut with matching markings 	Periodic	Y	N	15. Verify placement of AAC masonry units and construction of thin-be 5000 SF of AAC masonry)
Ŷ	N N	b) Direct tension indicator c) Twist-off type tension control bolt	Periodic Periodic		N N	16. Verify properties of thin-bed mortar for AAC masonry (first 5000 S 17. Verify properties of thin-bed mortar for AAC masonry (after the first
Ý	N N	d) Turn-of-nut without matching markings e) Calibrated wrench	Continuous Continuous		N	18. Prepare grout and mortar specimens
v	N	2) Snug-tight joints	Periodic Perform (4)		N	19. Observe preparation of prisms
r V		c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)		T	IN	
Y	N	Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1	Observe or Perform as noted (4)	Y	N	1705.5 Wood Construction1. Inspection of the fabrication process of wood structural elements ar
		1705.2.2 Steel Construction Other Than Structural Steel		Y	N	with Section 1704.2.5 2. For high-load diaphragms, verify grade and thickness of structural p
Y	Ν	1. Material verification of cold-formed steel deck: a. Identification markings	Periodic	Y	N	approved building plans 3. For high-load diaphragms, verify nominal size of framing members
Y	Ν	 Manufacturer's certified test reports Connection of cold-formed steel deck to supporting structure: 	Each submittal			or staple diameter and length, number of fastener lines, and that spac line and at edge margins agree with approved building plans
Y Y	N N	a. Welding b. Other fasteners (in accordance with AISC 360,Section N6)	Periodic	Y	N	 Metal-plate-connected wood trusses spanning 60 feet or greater: verses restraint/bracing are installed in accordance with the approved truss s
Y Y	N N	 Verify fasteners are in conformance with approved submittal Verify fastener installation is in conformance with approved submittal and manufacturer's 	Periodic Periodic			1705.6 Soils
		recommendations 3. Reinforcing steel		Y	N	 Verify materials below shallow foundations are adequate to achieve Verify excavations are extended to proper depth and have reached
Y Y	N N	a. Verification of weldability of steel other than ASTM A706 b. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames,	Periodic Continuous	Y	N N	 Verify executions are extended to proper depin and nave reached Perform classification and testing of controlled fill materials. Verify use of proper materials, densities, and lift thicknesses during
· V	N	boundary elements of special concrete structural walls and shear reinforcement c. Shear reinforcement	Continuous		N	controlled fill 5. Prior to placement of controlled fill, observe subgrade and verify that
Ý	N	d. Other reinforcing steel	Periodic	Y	N	properly
Y	Ν	 Cold-formed steel trusses spanning 60 feet or greater Verify temporary and permanent restraint/bracing are installed in accordance with the approved 	Periodic	V	N	1705.7 Driven Deep Foundations
		truss submittal package		Y	N	 Verify element materials, sizes and lengths comply with requirement Determine capacities of test elements and conduct additional load t
Y Y	N	1705.3 Concrete Construction Inspection of reinforcing steel installation (see 1705.2.2 for welding) 	Periodic.		N N	 Observe driving operations and maintain complete and accurate red Verify placement locations and plumbness, confirm type and size of
Y Y	N N	 Inspection of prestressing steel installation Inspection of anchors cast in concrete where allowable loads have been increased per section 	Periodic Continuous	N/		blows per foot of penetration, determine required penetrations to achie and butt elevations and document any damage to foundation element
Y	Ν	1908.5 or where strength design is used 4. Inspection of anchors and reinforcing steel post-installed in hardened concrete: Per research	Periodic or as required by the research report issued by an		N N	 5. For steel elements, perform additional inspections per Section 1705 6. For concrete elements and concrete-filled elements, perform additional inspection in the section of the secti
		reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and	approved source	Y	N	1705.3 7. For specialty elements, perform additional inspections as determine
Y	Ν	tightening torque 5. Verify use of approved design mix	Periodic	Y	N	professional in responsible charge 8. Perform additional inspections and tests in accordance with the con
Y	Ν	Fresh concrete sampling, perform slump and air content tests and determine temperature of concrete	Continuous			1705.8 Cast-in-Place Deep Foundations
Y Y	N N	 Inspection of concrete and shotcrete placement for proper application techniques Inspection for maintenance of specified curing temperature and techniques 	Continuous Periodic		N N	 Observe drilling operations and maintain complete and accurate rec Verify placement locations and plumbness, confirm element diamet
Y	Ν	9. Inspection of prestressed concrete: a. Application of prestressing force	Continuous			applicable), lengths, embedment into bedrock (if applicable) and adeq capacity. Record concrete or grout volumes
Y	Ν	 b. Grouting of bonded prestressing tendons in the seismic-force-resisting system 10. Erection of precast concrete members 	Continuous		N N	 For concrete elements, perform additional inspections in accordance Perform additional inspections and tests in accordance with the cordance
Y Y	N N	a. Inspect in accordance with construction documents b. Perform inspections of welding and bolting in accordance with Section 1705.2	In accordance with construction documents In accordance with Section 1705.2			1705.9 Helical Pile Foundations
Ŷ	N	11. Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs	Periodic	Y	N	 Verify installation equipment, pile dimensions, tip elevations, final de and other data as required.
Y Y	N N	 Inspection of formwork for shape, lines, location and dimensions Concrete strength testing and verification of compliance with construction documents 	Periodic Periodic	Y	N	2. Perform additional inspections and tests in accordance with the con
·				V	N	1705.10.1 Structural Wood Special Inspections For Wind Resistan
		Notes:			N	 Inspection of field gluing operations of elements of the main windfor Inspection of nailing, bolting, anchoring and other fastening of compared to the second second
		1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of				windforce-resisting system
		interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building			N N	1705.10.2 Cold-formed Steel Special Inspections For Wind Resist 1.Inspection during welding operations of elements of the main windfo
		Official and/or the Design Professional. 2. The list of Special Inspectors may be submitted as a separate document, if noted so above.		Ť	IN	2.Inspections for screw attachment, bolting, anchoring and other faste main windforce-resisting system
						1705.10.3 Wind-resisting Components
		3. Special Insepctions as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2			N N	1. Roof cladding 2. Wall cladding
		4. Observe on a random basis, operations need not be delayed pending these inspections. Perform		Y	N	1705.11.1 Structural Steel Special Inspections for Seismic Resista
		these tasks for each welded joint, bolted connection, or steel element.				Inspection of structural steel in accordance with AISC 341
		5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.			N N	1705.11.2 Structural Wood Special Inspections for Seismic Resist 1. Inspection of field gluing operations of elements of the seismic-force 2. Inspection of nailing, bolting, anchoring and other fastening of comp force-resisting system
CONCRE	ETE AND RE	EINFORCING				1705.11.3 Cold-formed Steel Light-Frame Construction Special In
		SHALL CONFORM TO THE INDICATED REFERENCE CODES AND STANDARDS			N	Resistance 1. Inspection during welding operations of elements of the seismic-ford
				Y	N	 Inspection during weiging operations of elements of the seismic-ford Inspections for screw attachment, bolting, anchoring and other faste seismic-force-resisting system
A	ACI-318 - "E	STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"				
A	4CI-306R - "	HOT WEATHER CONCRETING" COLD WEATHER CONCRETING"	STRUCTURAL AND MISCELLAN	IEOUS STEEL		
		GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"				
2. <u>(</u>	<u>JONCRETE</u>	MIX SPECIFICATIONS	REQUIREMENTS. ALL CUT, RE PAINT PER ASTM A780. COLOF			SURFACE SHALL BE PAINTED WITH (2) COAT OF 95% ZINC RICH

LOCAT	ION	COMP. SRENGTH	W/C RATIO A
FOOTI	NG	3000 PSI (MIN. OF 5.	5 SACKS OF CE
SLAB (ON GRADE	3000 PSI (MIN. OF 5.	5 SACKS OF CE
FOUNI	DATION WALL	3000 PSI (MIN. OF 5.	5 SACKS OF CE
TOPPI	NG	N.A.	
a.		ONTENT IS SPECIFIED	

ABOVE. AIR CONTENT TOLERANCE SHALL BE \pm 1% AND SHALL BE MEASURED AT THE POINT OF PLACEMENT. (AFTER PUMPING IF APPLICABLE). ALL CONCRETE EXPOSED TO THE WEATHER SHALL HAVE AN APPROVED ADMIXTURE TO ENTRAIN AIR - 5% TOTAL AIR REQUIRED. CONCRETE THAT CAN BE SUBJECTED TO FREEZING AND THAWING DURING CONSTRUCTION SHALL BE AIR ENTRAINED.

3. PROVIDE GRADE 60 KSI (A615) FOR CONCRETE STEEL REINFORCING

AIR CONTENT REMARK

EMENT PER CUBIC YARD OF CONCRETE)

EMENT PER CUBIC YARD OF CONCRETE) EMENT PER CUBIC YARD OF CONCRETE)

STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS: TUBE COLUMNS: ASTM A500, GRADE B (Fy = 46 KSI)

WIDE FLANGE COLUMNS / BEAMS:	ASTM 572 GR50
STEEL PIPE:	SCHEDULE 40, CONFORMING TO ASTM A53, TYPE E OR S, GRADE B (Fy = 35 KSI.)
ALL OTHER STEEL:	ASTM A36 (Fy = 36 KSI) OR ASTM A992
BOLTS:	ASTM A307 (WOOD/STEEL CONN)
BOLTS:	ASTM A325/A490 WITH LOCK WASHERS (STEEL/STEEL AND STEEL/CONC CONN)
ANCHOR BOLTS:	ASTM A307 (WOOD FRAMING)
ANCHOR BOLTS:	ASTM A325 (STEEL FRAMING)

ALL SLIP CRITICAL CONNECTIONS SHALL BE ASTM A325 BOLTS AND SHALL BE ENGINEER-APPROVED. SELF-LOAD INDICATING TYPES, AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

STRUCTURAL STEEL WELDING CONFORM TO THE AWS CODES D1.1 AND D1.3, AND USE ONLY CERTIFIED WELDERS. WELDS NOT SPECIFIED ARE TO BE 1/4" CONTINUOUS FILLET MINIMUM. INCREASE WELD SIZE TO AWS MINIMUM SIZES, BASED ON PLATE THICKNESS. USE DRY E70 ELECTRODES. ALL WELDING SHALL CONFORM TO THE AWS CODES, AND SHALL BE BY CERTIFIED WELDERS. WELDS NOT SPECIFIED SHALL BE 1/4" CONTINUOUS FILLET MINIMUM. USE DRY E70 ELECTRODES.

EXTENT

Periodic Periodic Periodic Continuous Periodic Continuous Periodic Periodic Periodic Periodic Level B - Periodic Level C - Continuous Level B - Periodic Level C - Continuous Continuous Periodic Level B - Periodic Level C - Continuous Continuous Periodic Continuous Continuous Level B - Periodic Level C - Continuous Continuous Level B - Periodic Level C - Continuous Level B - Periodic Level C - Continuous Level B - Periodic Level C - Continuous Periodic

Periodic Periodic Periodic

Periodic Periodic Periodic Continuous Periodic

Continuous Continuous Continuous Continuous

See Section 1705.2 See Section 1705.3

In accordance with construction documents In accordance with construction documents

Continuous Continuous

See Section 1705.3 In accordance with construction documents

Continuous In accordance with construction documents

Continuous Periodic

Periodic Periodic

Periodic Periodic In accordance with AISC 341

Continuous Periodic

Periodic Periodic

DRAWING LIST

SHEET NUMBER	SHEET NAME	ISSUE DATE
S-0	GENERAL NOTES AND SPECIFICATIONS	07-21-23
S-1	FRAMING PLANS	07-21-23
S-2	FRAMING DETAILS	07-21-23
S-3	WSW DETAILS	07-21-23
Grand total:	4	

A BARA ***** **TSO ADDITION**

b2 structural

info@b2engineers.com

425-318-7047 (O)

425-318-0031 (C)

enainee

8802 SE 37TH ST MERCER ISLAND, WA 98040

DRAWING INFO

ISSUE DATE 07-21-23

ISSUED FOR PERMIT

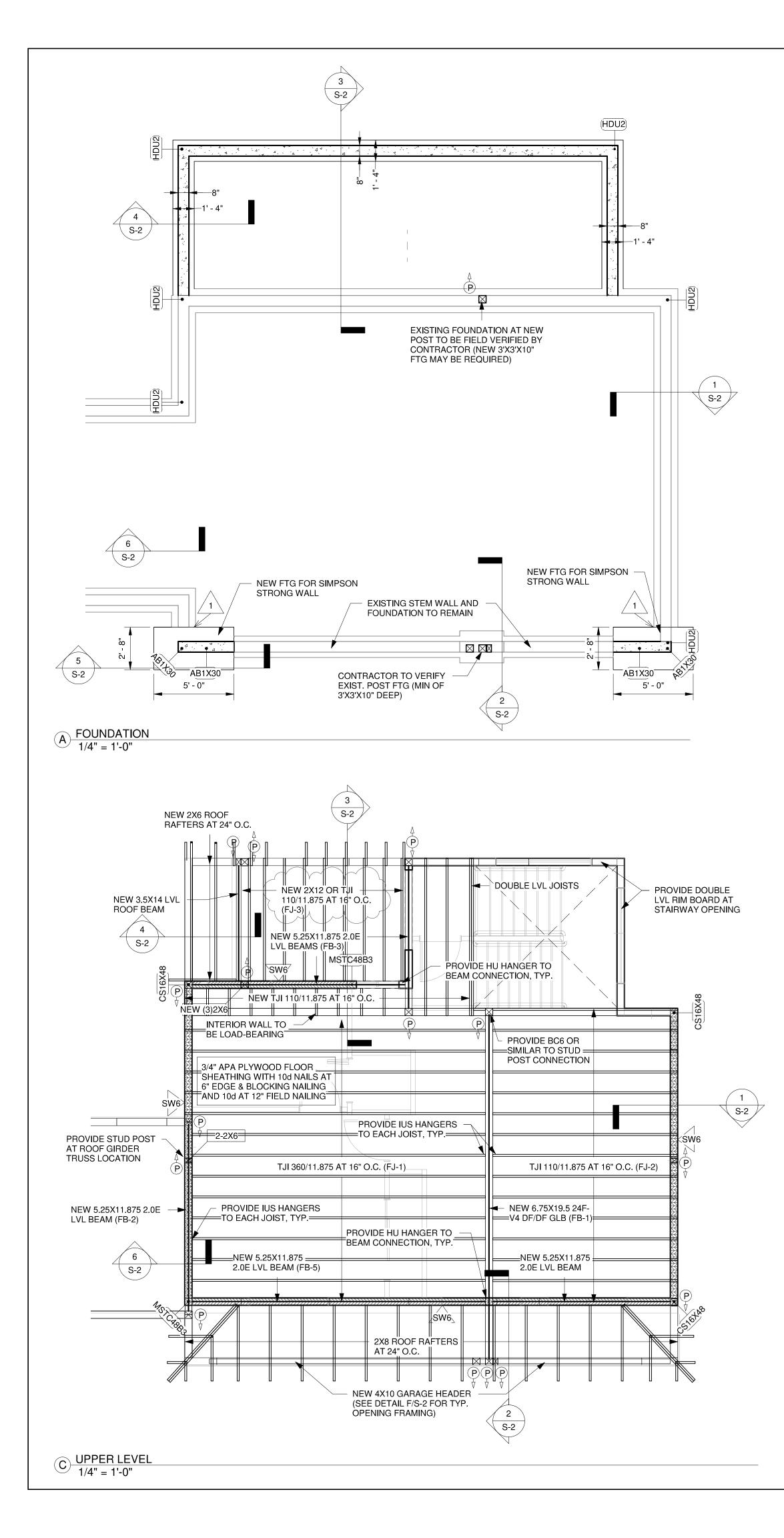
PROJECT NO.22126

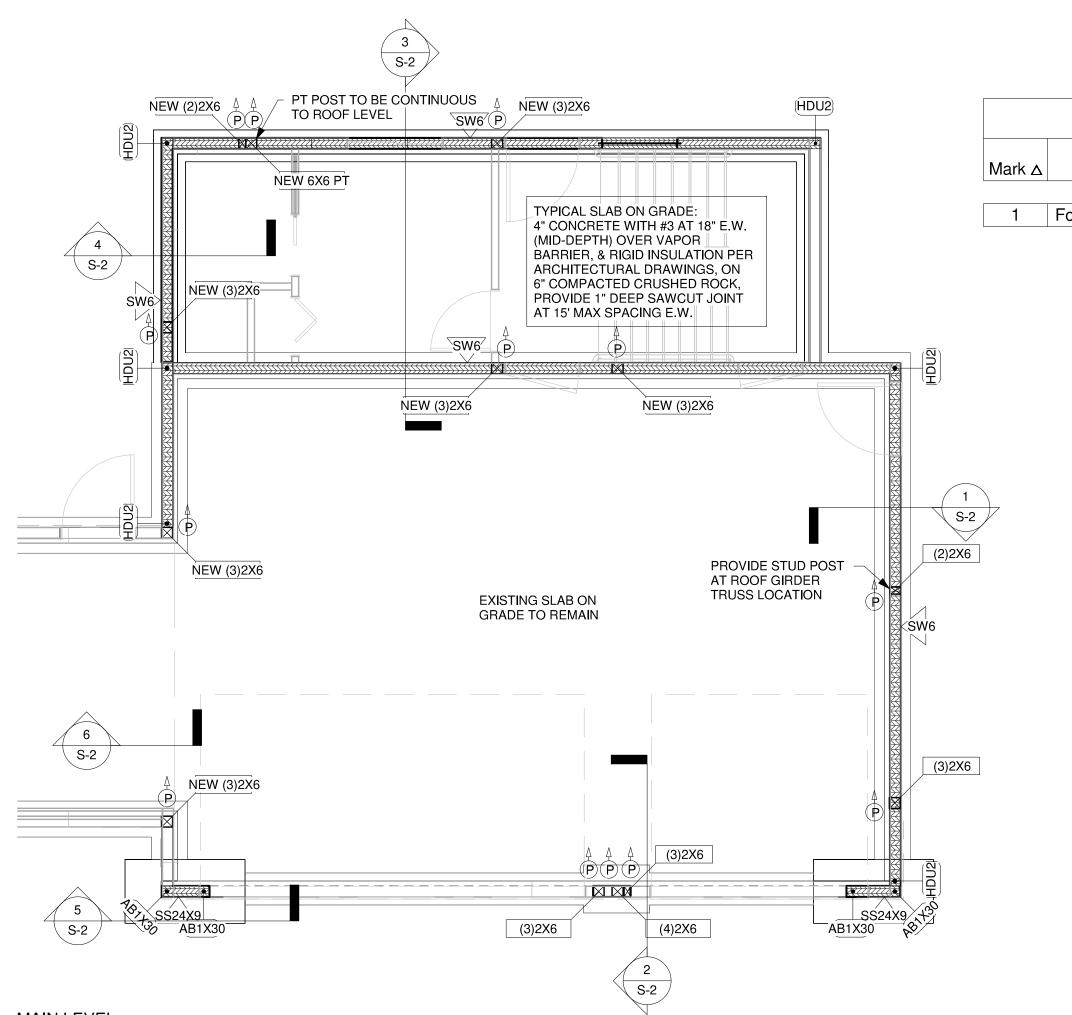
ENGINEER BB

REVISION SCHEDULE NO. DATE DESCRIPTION

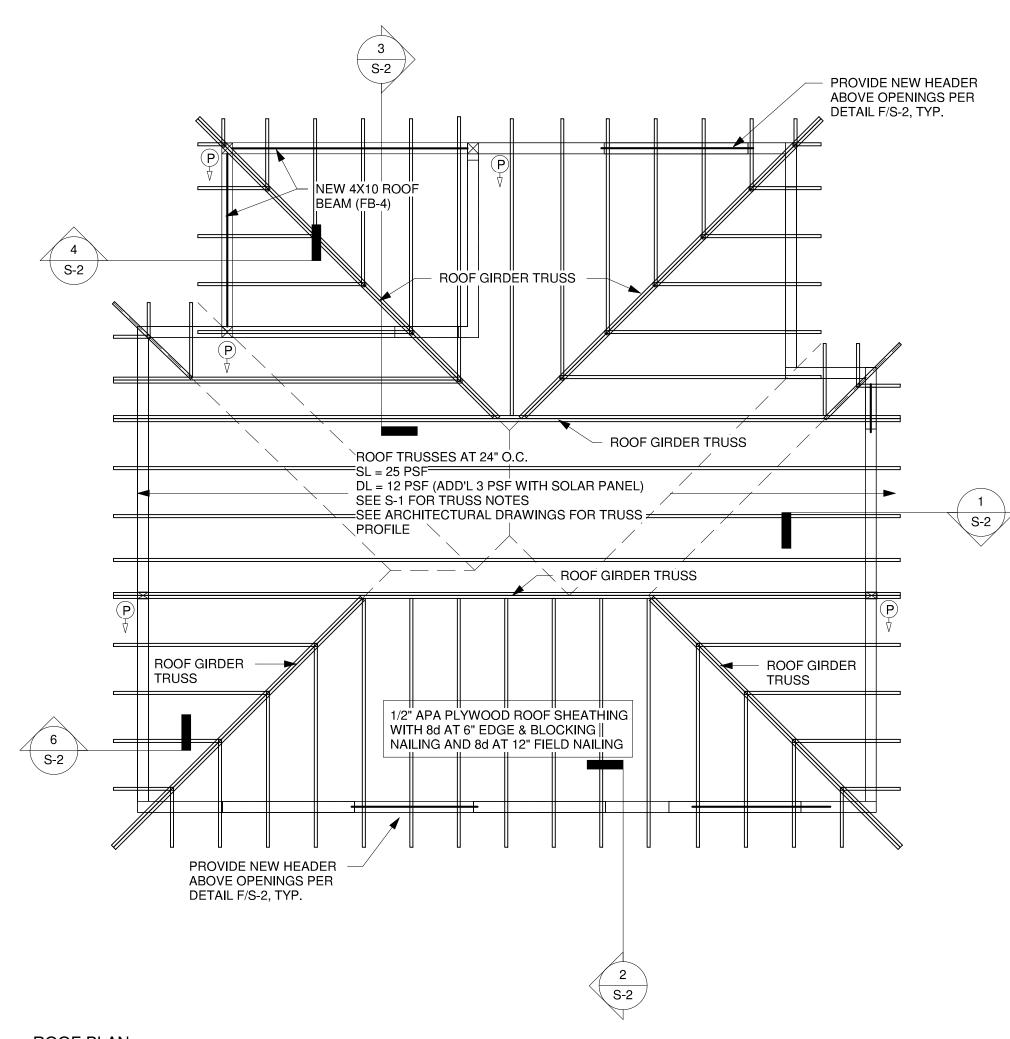
GENERAL NOTES AND SPECIFICATIONS **S-0**

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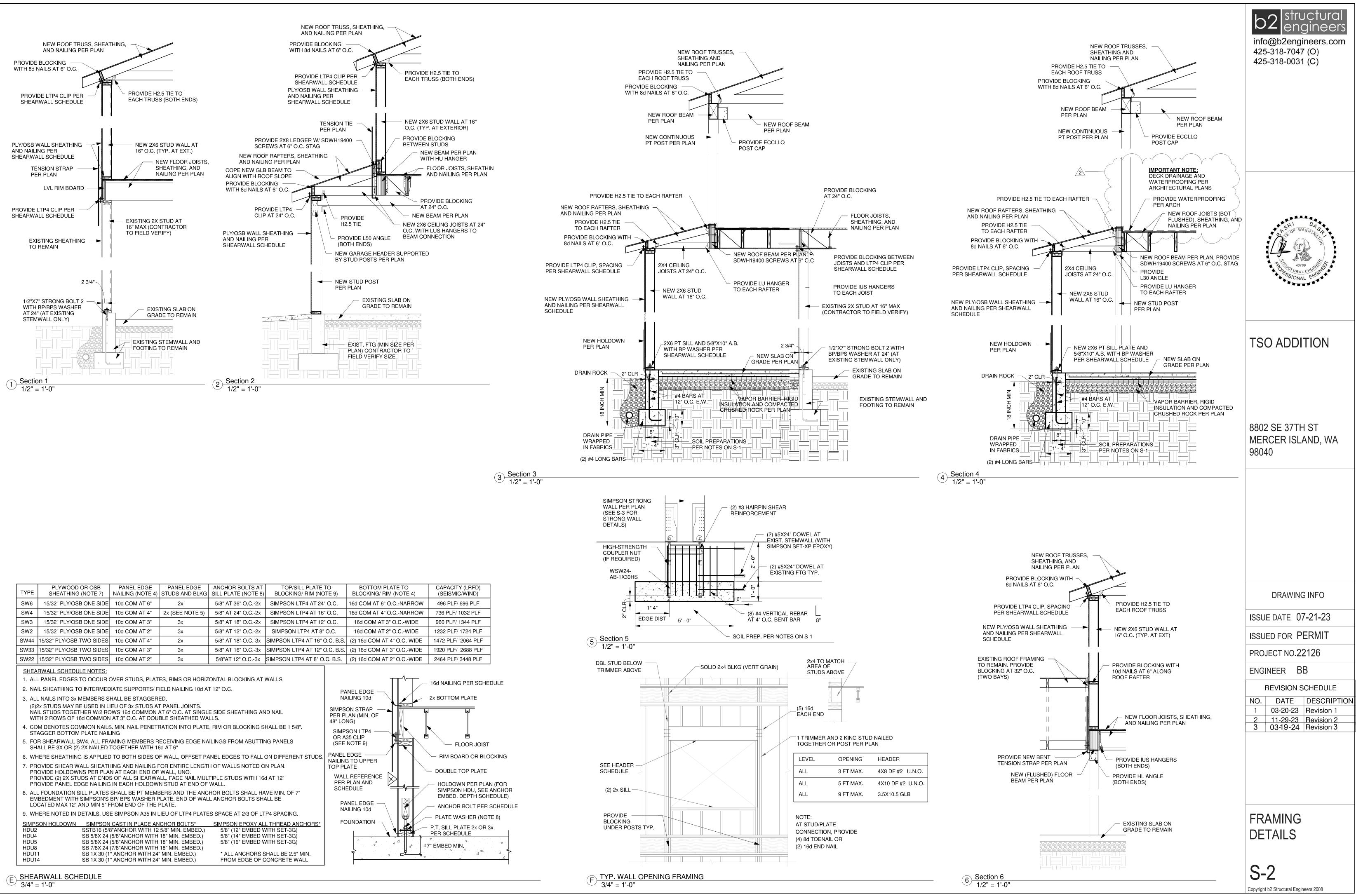




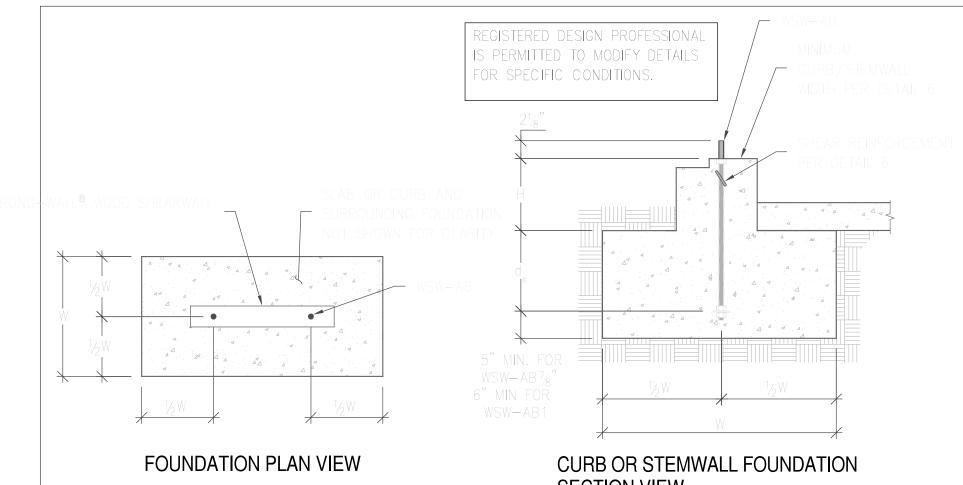
B MAIN LEVEL 1/4" = 1'-0"



TYPE ooting-Rectangular	FOOTING SCHEE WIDTH / LENGTH / DIAMETER 2' - 8" 5' - 0"		INT REINFORCEMENT 3 - #4 E.W.	b2 structural info@b2engineers.com 425-318-7047 (O) 425-318-0031 (C)
				BORNEL ASTRONUCTION
				TSO ADDITION
				8802 SE 37TH ST MERCER ISLAND, WA 98040
AND W 1. CON NOTIFY ARCHI 2. IN RE DESIGN THAT M STRUC TO LIM 3. CON PRIOR 4. ENG CONTE IMPOR 1. ALL N NATIVE GEOTE 2. FOR PLEAS 3. FOR 4. FOR 5. PRO OTHEF 6. SLAE ON 6" C EACH M WEATH 7. FLOO 8. ROO 8. BLOO 1. TRUS TEMPOC 2. TRUS ARCHIT 3. TRUS FLOOR ** MAX 4. FLOOR ** MAX 4. FLOOR	TANT NOTES ON DRAWING REVIE ATERPROOFING: TRACTOR MUST REVIEW STRUC' DESIGN TEAM/OWNER OF ANY INTERSIGN TEAM/OWNER OF EXISTING ME MODEL/RETROFIT PROJECTS, C N TEAM/OWNER OF EXISTING ME MAY INTERFERE WITH STRUCTUR TURAL DRAWINGS MAY NOT REF ITED AVAILABLE INFORMATION. TRACTOR IS SOLELY RESPONSIE TO REMOVING ANY STRUCTURAL NEER IS NOT RESPONSIBLE FOR ACTOR/OWNER SHALL CONSULT SOIL OR COMPACTED STRUCTU CHNICAL ENGINEER MAY BE REC FRAMING LUMBER TYPES AND G SEE S-0 PLYWOOD/OSB SHEARWALL SCH COMMON HEADER FRAMING DET VIDE (2) 2X6 OR (3) 2X4 STUD POS WISE ON PLAN B ON GRADE SHALL BE MIN. 4" TH COMPACTED CRUSHED ROCK. SA VAY SHALL BE DONE WITHIN 4 TO IER. DR SHEATHING SHALL BE 3/4" PLY & BLOCKING AND AT 12" AT FIEL F SHEATHING SHALL BE 1/2" PLY WING AND AT 12" AT FIELD SS FRAMING LAYOUT SHOWN IS O SUPPLIER MUST SUBMIT TRUSS PRARY/ PERMANENT BRACING PL SS FRAMING LAYOUT SHOWN IS O SUPPLIER MUST SUBMIT TRUSS PARY/ PERMANENT BRACING PL SS FRAMING LAYOUT SHOWN IS O SUPPLIER MUST SUBMIT TRUSS PARY/ PERMANENT BRACING PL SS FRAMING LAYOUT SHOWN IS O SC DEFLECTION CRITERIAS: /DECK LIVE LOAD = L/480 /DECK LIV	TURAL DRAWINGS PRIOF DISCREPANCY IN COMPA D CONDITIONS. ONTRACTOR MUST FIEL CHANICAL, PLUMBING, A AL WORK PRIOR TO COI LECT ALL EXISTING FRA LE IN PROVIDING PROPF ELEMENTS. WATERPROOFING SYS WITH QUALIFIED PROFF MD FRAMING: NBLE SOIL SUCH AS MIN. RAL FILL (NO SOFT OR CO QUIRED TO ASSESS EXIS RADES, AND CONCRETE HEDULE, PLEASE SEE S- TAIL AND HEADER SIZE, STS AT EACH END OF BE ICK WITH #3 AT 18" EACH WOOD OR OSB WITH 10 D MOOD OR OSB WITH 10 D MOOD OR OSB WITH 8d. MBER PACKAGE/LUMBE GENERAL CONCEPT ONL SHOP DRAWINGS INCLU AND FOR ENGINEER'S R HOULD CONFORM TO BC ATIONS SHALL BE APPRO ATIONS SHALL BE APPRO ATIONS SHALL BE APPRO AND FOR ENGINEER'S R HOULD NOT EXCEED 1. CONNECTORS (SUCH AS	A TO CONSTRUCTION & ARISON WITH D VERIFY & NOTIFY IND ELECTRICAL LINES NSTRUCTION. MING CONDITIONS DUE ER TEMPORARY SHORING TEM OR DETAILS. ESSIONALS AS REQUIRED OF MEDIUM DENSE DRGANIC MATERIALS). TING SOIL CONDITIONS. E MIX REQUIREMENTS XX SEE S-XX AMS, UNLESS NOTED H WAY (AT MID-DEPTH) AT 15 FT MAX. SPACING SHING, DEPENDING ON Dd AT 6" NAILING AT AT 6" NAILING AT EDGES E PACKAGE REVIEW: DY. CONTRACTOR/ JDING TRUSS EVIEW DTH STRUCTURAL AND DVED BY ENGINEER/ TAL LOAD = L/240 DW LOAD = L/300 0" IN ALL CASES S LUMBER PACKAGE BY	DRAWING INFO ISSUE DATE 07-21-23 ISSUED FOR PERMIT PROJECT NO.22126 ENGINEER BB REVISION SCHEDULE NO. DATE DESCRIPTION 1 03-20-23 Revision 1 2 11-29-23 Revision 2 3 03-19-24 Revision 3
FRAMII	NG SYMBOLS <u>:</u> SIMPSON WSW WOOD STRONG WALL (24" WIDE) PLYWOOD SHEARWALL	 (P) ↓ <li< td=""><td>LOOR</td><td>FRAMING PLANS</td></li<>	LOOR	FRAMING PLANS
	SHEARWALL HOLDOWN SEND AND NOTES ' = 1'-0''	POST STARTS P THIS FLOOR	э АТ	S-1 Copyright b2 Structural Engineers 2008



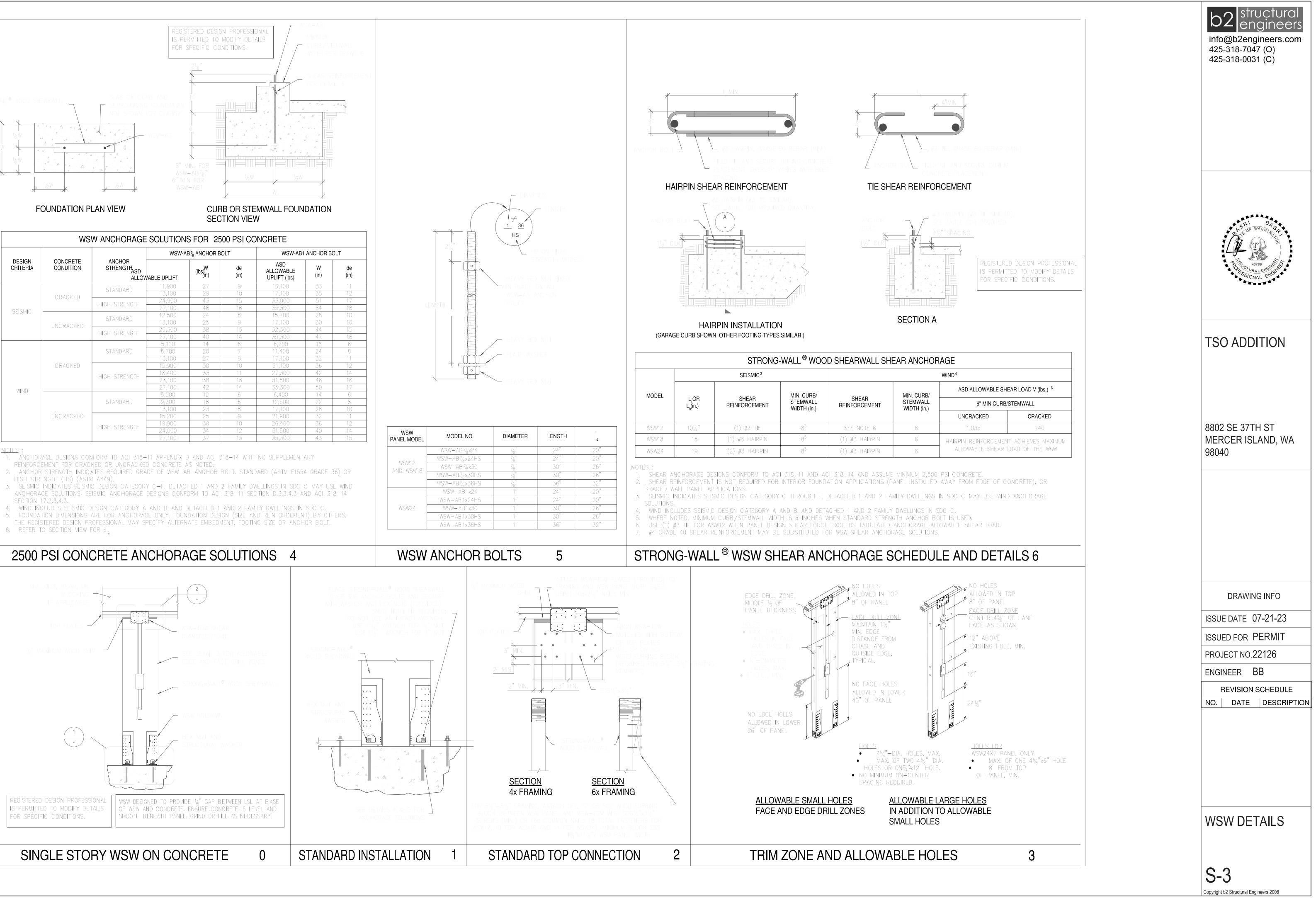
TYPE	SHEATHING (NOTE 7)	NAILING (NOTE 4)	STUDS AND BLKG	SILL PLATE (NOTE 8)	BLOCKING/ RIM (NC		BLOCKING/ RIM		(SEISMIC
SW6	15/32" PLY/OSB ONE SIDE	10d COM AT 6"	2x	5/8" AT 36" O.C2x	SIMPSON LTP4 AT 24	" O.C.	16d COM AT 6" O.0	CNARROW	496 PLF/
SW4	15/32" PLY/OSB ONE SIDE	10d COM AT 4"	2x (SEE NOTE 5)	5/8" AT 24" O.C2x	SIMPSON LTP4 AT 16	" O.C.	16d COM AT 4" O.0	CNARROW	736 PLF/
SW3	15/32" PLY/OSB ONE SIDE	10d COM AT 3"	Зx	5/8" AT 18" O.C2x	SIMPSON LTP4 AT 12	" O.C.	16d COM AT 3" (D.CWIDE	960 PLF/
SW2	15/32" PLY/OSB ONE SIDE	10d COM AT 2"	Зx	5/8" AT 12" O.C2x	SIMPSON LTP4 AT 8"	O.C.	16d COM AT 2" (D.CWIDE	1232 PLF/
SW44	15/32" PLY/OSB TWO SIDES	10d COM AT 4"	2x	5/8" AT 18" O.C3x	SIMPSON LTP4 AT 16"	Э.С. В.S.	(2) 16d COM AT 4'	' O.CWIDE	1472 PLF/
SW33	15/32" PLY/OSB TWO SIDES	10d COM AT 3"	Зx	5/8" AT 16" O.C3x	SIMPSON LTP4 AT 12"	Э.С. В.S.	(2) 16d COM AT 3'	' O.CWIDE	1920 PLF/
SW22	15/32" PLY/OSB TWO SIDES	10d COM AT 2"	3x	5/8"AT 12" O.C3x	SIMPSON LTP4 AT 8" O	.C. B.S.	(2) 16d COM AT 2'	' O.CWIDE	2464 PLF/
SHEA 1. ALI 2. NA 3. ALI (2): NA 3. ALI (2): NA 5. FO 5. FO 6. WI 7. PR PR PR 9. WI SIMPS HDU2 HDU4 HDU5 HDU8	Image: Construct of the system Image: Construction of the system <td>OVER STUDS, PLAT DIATE SUPPORTS/ F HALL BE STAGGER IEU OF 3x STUDS A DWS 16d COMMON / I AT 3" O.C. AT DOU S. MIN. NAIL PENETF ING AMING MEMBERS R TOGETHER WITH 16 D TO BOTH SIDES O HING AND NAILING F N AT EACH END OF S OF ALL SHEARWA IN EACH HOLDOW SHALL BE PT MEME BP/ BPS WASHER F FROM END OF THE I E SIMPSON A35 IN L LCAST IN PLACE AN 8"ANCHOR WITH 12 (5/8"ANCHOR WITH (5/8"ANCHOR WITH</td> <td>ES, RIMS OR HORIZ IELD NAILING 10d A ED. T PANEL JOINTS. AT 6" O.C. AT SINGL BLE SHEATHED WA RATION INTO PLATE ECEIVING EDGE NA 6d AT 6" F WALL, OFFSET PA FOR ENTIRE LENGT WALL, END OF WAL PLATE. LIEU OF LTP4 PLATE ICHOR BOLTS* 5/8" MIN. EMBED.) 18" MIN. EMBED.) 18" MIN. EMBED.)</td> <td>ONTAL BLOCKING AT T 12" O.C. E SIDE SHEATHING AN LLS. RIM OR BLOCKING S ILINGS FROM ABUTTIN ANEL EDGES TO FALL HOF WALLS NOTED O TIPLE STUDS WITH 164 WALL. HOR BOLTS SHALL HA L ANCHOR BOLTS SHALL HA L ANCHOR BOLTS SHALL HA SIMPSON EPOXY AL 5/8" (12" EMBED V 5/8" (14" EMBED V 5/8" (16" EMBED V</td> <td>WALLS ID NAIL HALL BE 1 5/8". NG PANELS ON DIFFERENT STUDS. N PLAN. d AT 12" ALL BE P4 SPACING. <u>L THREAD ANCHORS*</u> VITH SET-3G) VITH SET-3G) VITH SET-3G)</td> <td>PA NA SIMPSO PER PL 48" LON SIMPS OR A3 (SEE NAILING TOP PL WALL PER I SCHE PA NA</td> <td>NEL EDGE ILLING 10d ON STRAP AN (MIN. OF NG) SON LTP4 35 CLIP NOTE 9) EDGE ATE L REFERENCE PLAN AND EDULE</td> <td></td> <td> 16d NAILING 2x BOTTOM 2x BOTTOM 2x BOTTOM FI FI RIM BO/ DOUBLE DOUBLE HOLDOV SIMPSOI EMBED. ANCHOF PLATE W, P.T. SILL PL PER SCHEE 7" EMBED MI </td>	OVER STUDS, PLAT DIATE SUPPORTS/ F HALL BE STAGGER IEU OF 3x STUDS A DWS 16d COMMON / I AT 3" O.C. AT DOU S. MIN. NAIL PENETF ING AMING MEMBERS R TOGETHER WITH 16 D TO BOTH SIDES O HING AND NAILING F N AT EACH END OF S OF ALL SHEARWA IN EACH HOLDOW SHALL BE PT MEME BP/ BPS WASHER F FROM END OF THE I E SIMPSON A35 IN L LCAST IN PLACE AN 8"ANCHOR WITH 12 (5/8"ANCHOR WITH (5/8"ANCHOR WITH	ES, RIMS OR HORIZ IELD NAILING 10d A ED. T PANEL JOINTS. AT 6" O.C. AT SINGL BLE SHEATHED WA RATION INTO PLATE ECEIVING EDGE NA 6d AT 6" F WALL, OFFSET PA FOR ENTIRE LENGT WALL, END OF WAL PLATE. LIEU OF LTP4 PLATE ICHOR BOLTS* 5/8" MIN. EMBED.) 18" MIN. EMBED.) 18" MIN. EMBED.)	ONTAL BLOCKING AT T 12" O.C. E SIDE SHEATHING AN LLS. RIM OR BLOCKING S ILINGS FROM ABUTTIN ANEL EDGES TO FALL HOF WALLS NOTED O TIPLE STUDS WITH 164 WALL. HOR BOLTS SHALL HA L ANCHOR BOLTS SHALL HA L ANCHOR BOLTS SHALL HA SIMPSON EPOXY AL 5/8" (12" EMBED V 5/8" (14" EMBED V 5/8" (16" EMBED V	WALLS ID NAIL HALL BE 1 5/8". NG PANELS ON DIFFERENT STUDS. N PLAN. d AT 12" ALL BE P4 SPACING. <u>L THREAD ANCHORS*</u> VITH SET-3G) VITH SET-3G) VITH SET-3G)	PA NA SIMPSO PER PL 48" LON SIMPS OR A3 (SEE NAILING TOP PL WALL PER I SCHE PA NA	NEL EDGE ILLING 10d ON STRAP AN (MIN. OF NG) SON LTP4 35 CLIP NOTE 9) EDGE ATE L REFERENCE PLAN AND EDULE		 16d NAILING 2x BOTTOM 2x BOTTOM 2x BOTTOM FI FI RIM BO/ DOUBLE DOUBLE HOLDOV SIMPSOI EMBED. ANCHOF PLATE W, P.T. SILL PL PER SCHEE 7" EMBED MI
HDU1 HDU1		" ANCHOR WITH 24 " ANCHOR WITH 24		* ALL ANCHORS S FROM EDGE OF (SHALL BE 2.5" MIN. CONCRETE WALL		4		
SHEA	RWALL SCHEDULE					J			

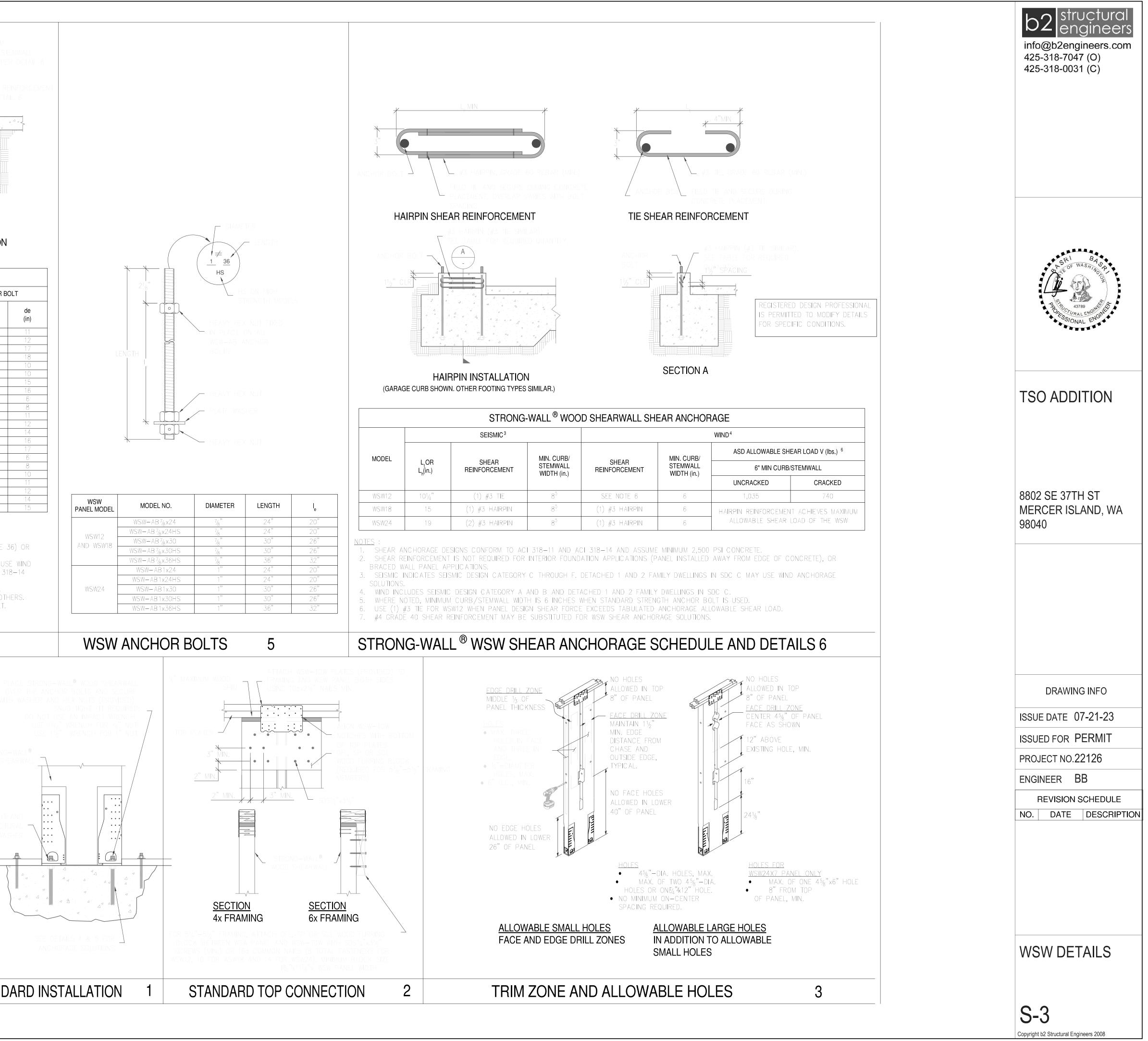


	WS	W ANCHORAGE	SOLUTION	S FOR 25	00 PSI CC	DNCRETE		
			WSW-A	B % ANCHOR B	OLT	WSW-AB1	ANCHOR BO	OLT
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH ASD ALLOV	VABLE UPLIFT	(lbs) ^W	de (in)	ASD ALLOWABLE UPLIFT (lbs)	W (in)	de (in)
		STANDARD	11,900	27	9	16,100	33	11
	CRACKED		13,100	29	10	17,100	35	12
	UNCRACKED	HIGH STRENGTH	24,900	43	15	33,000	51	17
SEISMIC			27,100	46	16	35,300	54	18
		STANDARD	12,500	24	8	15,700	28	10
		HIGH STRENGTH	13,100	25	9	17,100	30	10
			25,300	38	13	32,300	44	15
			27,100	40	14	35,300	47	16
	CRACKED	STANDARD	5,100 8,700	20	6	6,200	24	<u> </u>
			13,100	20	9	17,100	32	<u> </u>
			15,900	30	10	21,100	36	12
			18,400	33	11	27,300	42	14
		HIGH STRENGTH	23,100	38	13	31,800	46	16
			27,100	42	14	35,300	50	17
WIND			5,000	12	6	6,400	14	6
		STANDARD	9,300	18	6	12,500	22	8
			13,100	23	8	17,100	28	10
	UNCRACKED		15,200	25	9	21,900	32	11
			19,900	30	10	26,400	36	12
		HIGH STRENGTH	24,000	34	12	31,500	40	14
			27,100	37	13	35,300	43	15

ANCHOR STRENGTH INDICATES REQUIRED GRADE OF WSW-AB ANCHOR BOLT. STANDARD (ASTM F1554 GRADE 36) OR

ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-11 SECTION D.3.3.4.3 AND ACI 318-14





		1	1	
VSW L MODEL	MODEL NO.	DIAMETER	LENGTH	l _e
	WSW-AB7/8x24	7/8"	24"	20"
SW12 WSW18	WSW–AB7⁄8x24HS	7/8"	24"	20"
	WSW-AB %x30	7/8"	30"	26"
	WSW–AB7%x30HS	7/8"	30"	26"
	WSW-AB7/8x36HS	7/8"	36"	32"
	WSW-AB1x24	1 **	24"	20"
	WSW-AB1x24HS	1 ''	24"	20"
5W24	WSW-AB1x30	1 33	30"	26"
	WSW-AB1x30HS	1 23	30"	26"
	WSW-AB1x36HS	1 33	36"	32"

