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RDINATION 000 PLAN CHECK BUILDING 2ND

16-S003

S0.0

JOB NUMBER

1. STRUCTURAL STEEL: Material Fabrication and Frection	
A.Materials	 Provide reinforcing steel as indicated in unless noted otherwise.
 Provide structural steel complying with the following ASTM Standard Specifications, unless noted otherwise: Wide Flanges ASTM A992 	11. Splice reinforcing steel where indicated. a minimum of 64 bar diameters, unless r distance between bars at adjacent splice
Plates, channels, angles ASTM A36	12 Provide wire reinforcing in mortar joints (
ASTM A572 Grade 42 or Grade 50 Pipes	complying with ASTM A951. Provide ho wire reinforcing in exterior or retaining w
ASTM A53, Grade B (35 ksi) Hollow structural section	ounces of zinc per square foot of surface
ASTM A500, Grade C (50 ksi - Rectangular Section, 46 ksi - Round Section).	interior walls with a minimum of 0.10 our surface area in compliance with ASTM A
Anchor rods ASTM F1554, Grade 55	manufacturer's recommendations.
ASTM F1554, Grade 105 at SFRS ASTM F1554, Grade 36 (Wood Framing)	 Dowels for walls and columns shall mate column reinforcing steel, unless noted or
Threaded round stock ASTM A36	with cells containing reinforcing steel.
Reinforcing steel See Reinforcing Steel Section.	distances between reinforcing and face
Furnish readily identifiable structural steel in compliance with CBC 2203.	Reinforcing steel:
B.High Strength Bolts 1) Provide high strength bolts, puts and washers complying with	Walls or columns below grade
ASTM A325 with threads not excluded from the shear plane unless noted otherwise. Provide pretensioned high strength	for bars larger than #5 for bars #5 & smaller
bolts (with Class A faying surface) for all bolted connections part of the seismic force resisting system (SFRS) unless noted	Walls or columns above grade: exposed to weather
otherwise. 2) Assemble high strength bolts in compliance with Specification	for bars larger than #5 for bars #5 & smaller
for structural joints using ASTM A325 or ASTM A490 Bolts.3) Tighten all bolts to a snug tight condition, unless noted	not exposed to weather Seismic combs or other mortar it. reinfo
otherwise. Install pretensioned bolts to at least the minimum tension specified in the referenced standard using one of the	exposed to weather not exposed to weather
approved methods.	15. Provide 1" minimum grout cover around
for Structural Steel Buildings," AISC 360-10 and CBC Chapter 22.	Inserts, etc., penetrating masonry shell.Set cells in vertical alignment
D. Provide stainless steel only where specifically indicated complying with ASTM A666, specification for the design of cold-formed stainless	17. Grout thickness between masonry units
steel structural members based on AISI. Submit prequalification of welds to Governing Code Authority for approval.	be less than 1/2" and between parallel renoted the nor nominal bar diameter.
E.Apply sprayed fireproofing over structural steel with Monokote	18. Grout solid all cells.
MK6/CBF or MK6/ED as manufactured by W.R. Grace and Company as approved by ICC-ES ESR-1186 or equal. Hourly fire resistive	19. Mechanically vibrate grout in cells.
type of construction as indicated on architectural drawings.	20. If work is stopped one hour or longer, pr joints by stopping grout 1 1/2" below top
F. Building structural steel is designed for unshored construction unless noted otherwise.	Joint. 21 Conduits pipes and sleeves shall be ins
G. Submit shop drawings to Architect (Structural Engineer) for review	requirements of Section 1.20.2 of TMS4
and, upon request, to Building Oπicial. Welding	
A.Basic Requirements	ROUGH CARPENTRY
1. Weld structural steel in compliance with ANSI/AWS D1.1, and AISC Specification, Chapter J. Welders shall be certified as	1. Provide plywood complying with DOC PS
required in the plans and by Governing Code Authority. Welding shall be done by electric arc process using low-hydrogen	Each sheet of plywood shall be identified we the American Plywood Association.
electrodes with specified tensile strength not less than 70 ksi unless noted otherwise and 80 ksi for all ASTM 913 steel.	2. Do not suspend ceilings, soffits, sprinklers
automatic welding (SAW-1).	
Certified fabricator, approved by the City of Los Angeles. 3 Unless a larger size fillet weld is indicated, provide minimum	
size of weld per AISC Specification, Section J2 and Table J2.4. 4. No attempt has been made to differentiate between shop and	
field welded connections. 5. Submit an erection and welding sequence to minimize locked-in	1. Provide steel decking by manufacturer(s) ind
stresses or distortion at Seismic Moment Frames.	2. Floor decking:
 B. Project Seismic Force Resisting System (SFRS) Welding Requirements 1. Refer to Project Specifications and AISC 341-10, Chapters I and J. 	 A. Provide steel floor decking and closu ASTM A653 SS Grade 33, with a mi galvanized with G60 commercial coa A525.
 C. Inspections 1. All inspection requirements shall follow the Quality Assurance 	B. Form floor decking with integral locking provide a mechanical lock between
section including inspection tables, AISC 360-10 Chapter N, AISC 341-10 Chapter J, and the project specifications.	E Floor decking is designed for uncharged
	indicated. If conditions occur where spa adequate shoring or heavier dauge decl
PEN-WEB STEEL JOISTS Provide open web joists and joist girders (including bridging) complying	by Architect (Structural Engineer).
CBC Section 2207. Furnish readily identifiable joists in compliance with CBC Section 2203.	 F. Provide perforations or slots in floor area, for ventilation of structural con weather or areas where waterproofir
Top chords of joists shall be angles or tees.	 Roof decking (no concrete fill): A. Provide steel roof decking and closu
Sizes indicated for joists are assumed and do not necessarily indicate member sizes to be supplied. Where design of members requires sizes and depths which differ from those indicated, notify Architect (Structural	A653 SS Grade 33, with a minimum galvanized with G60 commercial coa A525.
Engineer) immediately and, if acceptable, provide at no additional cost to	D. Roof decking is designed for unshored
Engineer) immediately and, if acceptable, provide at no additional cost to Owner.	
Engineer) immediately and, if acceptable, provide at no additional cost to Owner. Design loads: Dead Load = 16 psf at exposed joists Dead Load = 30psf at hard lid, ceiling	E.Do not suspend piping, ducts, work utilit exception of suspended acoustical ceilir
Engineer) immediately and, if acceptable, provide at no additional cost to Owner. Design loads: Dead Load = 16 psf at exposed joists Dead Load = 30psf at hard lid ceiling Live Load = 20psf (Roof) Wind load= See "General" section of S0.01	E.Do not suspend piping, ducts, work utilit exception of suspended acoustical ceilir light fixtures from roof decking. Submit framing for loads other than acoustical o
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Reinforcing Steel Section,

Lap reinforcing steel at splices noted otherwise. Where clear es is 3 inches or less, increase

only where specifically indicated ot-dipped galvanized coating for alls with a minimum of 1.50 e area in compliance with ASTM ating for wire reinforcing in nce of zinc per square foot of A641. Install in accordance with

ch size and spacing of wall and therwise. Set dowels to align

e following minimum clear of masonry unless noted



1-1/2" 1-1/2" orcing 5/8" 1/2"

reinforcing steel, anchor bolts,

and reinforcing steel shall not einforcing steel not less than 1"

rovide horizontal construction

of masonry unit or a mortar

stalled following the 02-11/ACI530-11/ASCE5-11.

1 and classified as Exposure 1. with appropriate trademark of

piping, mechanical ducts, nor inless specifically detailed.

icated on drawings.

ure angles complying with inimum yield of 38,000 psi and ating complying with ASTM

king lugs or embossments to concrete and decking.

construction to maximum spans ans exceed maximum, provide king; the latter subject to review

decking, 1.5% maximum open crete at areas exposed to ng is used.

are angles complying with ASTM yield of 38,000 psi and ating complying with ASTM

construction.

ties or other loads with ngs with integrally supported methods of support from roof ceilings to Architect (Structural

r mechanical equipment, ducts, lose not shown on structural auge and be welded to decking,

oorts. Lap decking at ends at oorts.

ANSI/AWS D1.3 using a s shall be certified as required

ing to thickness indicated on

rawings to Architect (Structural

shall not be embedded in steel Architect (Structural Engineer). ssembly fire rating unless s required.

REINFORCING STEEL

10. Bend reinforcing steel cold unless otherwise accepted by Architect (Structural Engineer). Provide special inspection of all cold bent reinforcing.

- 11. Securely tie anchor bolts, reinforcing steel, inserts, etc., in place prior to pouring concrete or grout.
- 12. Submit reinforcing steel shop drawings indicating reinforcing placement, including splice locations and lengths, to Architect (Structural Engineer) for review and acceptance. Promptly notify Architect (Structural Engineer) prior to developing reinforcing steel shop drawings if insufficient clear distances between reinforcing steel or other congestion is encountered. Prepare shop drawings in compliance with ACI 315, Part B.

ADHESIVE ANCHORS AND DOWELS

- 1. All adhesive anchors and dowels to use epoxy by Hilti Hit-RE500-SD, ICC#ESR-2322 or approved equal.
- 2. Install per manufacturer's recommendations.
- 3. Only non-rebar-cutting drill bits shall be used to drill holes in existing concrete. Care is to be taken when drilling holes so as not to cut any existing reinforcing. Locate existing reinforcing by chipping, pachometer, or x-ray methods prior to drilling.
- 4. Drill holes shall be cleaned of concrete dust and debris using either a nylon brush and a vacuum, or a nylon brush and oil-free compressed air. A blow-out bulb may be used if a vacuum or compressed air is not available.
- 5. Special inspection is required for installation of all adhesive anchors. Inspector to verify and document embedment length and hole preparation and cleanliness. Inspector to verify correct implementation of the manufacturer's instructions for installation.

CAST-IN-PLACE CONCRETE

- All concrete work to conform to CBC Chapter 19.
- Provide normal weight aggregates of natural sand and rock complying with ASTM C33 (aggregate size).
- Provide Portland Cement conforming to ASTM C150, Type II.
- 4. Provide normal weight concrete (145 pcf) attaining a minimum compressive strength of 4000 psi at 28 days unless noted otherwise.
- 5. Submit concrete design mix data for each type and compressive strength of concrete required signed by and bearing the seal of a registered civil engineer in state to Architect (Structural Engineer). Base design mix on field experience or trial mixtures, or both, as stipulated in ACI 318 Section 5.3.
- 6. Submit shop drawings to Architect (Structural Engineer) indicating locations of concrete construction joints for review prior to placing concrete. Locate joints at locations to minimize effects of shrinkage as well as being placed at points of low stress and shall conform to ACI 318, Section 6.4.
- 7. Slump not to exceed 4 (+/- 1) inches. For slab on grade, walls, slab on metal deck and suspended slabs, slump not to exceed 4" (+0", -1") inches.
- Do not use concrete or grout containing chlorides.
- Do not embed conduits, pipes, or sleeves in structural concrete, including slabs on metal deck, except where specifically detailed or accepted by Architect (Structural Engineer). Locate electrical conduit 3" apart minimum and within middle third of member.
- 10. Form exposed corners of columns, beams, walls, etc., with 3/4 inch chamfers unless detailed otherwise.
- 11. Provide keys in construction joints unless detailed otherwise. Thoroughly clean, remove laitance and thoroughly wet and remove standing water in construction joints before placing new concrete.
- 12. Roughen concrete surface to a full amplitude of 1/16 inch where masonry walls intersect concrete.
- 13. Roughen existing concrete surface to a full amplitude of 1/16 inch where existing concrete abuts new concrete.
- 14. Perform concrete work in compliance with ACI 301
- 15. Maintain concrete above 50 degrees Fahrenheit and in a moist condition for a minimum of 7 days after placement unless otherwise accepted by Architect (Structural Engineer).
- 16. All topping slabs to receive 6 x 6 W2.9 x W2.9 welded wire fabric unless noted otherwise. Place fabric in center of slab or a maximum of 2" clear from the top of concrete, whichever is less.
- 17. Slab on grade is not designed as a structural diaphragm.
- 18. The design of the formwork, shores and re-shores shall be the responsibility of the contractor. Construction load allowance is not included in the slab design. Timing for the removal of the formwork for the slab shall be the responsibility of the contractor. However, in no case shall the formwork be stripped before the concrete reaches 75% of its

specified 28-day compressive strength and 75% of its corresponding 28-day modulus of elasticity (E) of the concrete of that slab (where E = 57 x square root of the specified f'c for normal weight concrete). Re-shores cannot be completely removed before concrete reaches its specified strength at 28 days.

MASONRY

- 1. Specified compressive strength of masonry, f'm, shall be as follows: f'm = 1500 psi typical unless noted otherwise.
- 2. Verify specified compressive strength of masonry in accordance with one of the following methods as defined in CBC 2105.2: Masonry Prism Test Method, or Unit Strength Method.
- 3. Level B special inspection as specified in Table 4 of ACI 530 'Specifications' shall be provided.
- 4. Provide concrete masonry of medium weight classification complying with ASTM C90 attaining a minimum compressive strength as required to meet specified compressive strength of masonry (fm).
- 5. Provide face brick complying with ASTM C216.
- 6. Provide mortar complying with ASTM C270, Type S and attaining either a minimum compressive strength per Table SC-2 of TMS602/ACI 530 or property requirements per Table SC-1 of TMS602/ACI 530.1/ASCE6. Do not use masonry cement or plastic cement.
- 7. Provide grout complying with ASTM C476 and Article 2.2 of TMS 602/ACI 530.1/ASCE6. Grout compressive strength shall equal or exceed f'm, but not be less than 2000 psi at 28 days. Determine compressive strength of grout in accordance with ASTM C1019.
- 8. Provide Portland cement as indicated in Cast-In-Place Concrete Section.
- 9. Provide aggregates for mortar and grout of natural sand and rock complying with ASTM C144 and C404.

GENERAL (C

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FOUNDATION

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REINFORCIN

- 1. Provide rei ASTM A70 slab on gra otherwise lieu of AST otherwise.
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Authority for approval prior to execution. Welders shall be certified as

required by Governing Code Authority.

 B. Status - Lange and yourder by the status of yourder by	GENERAL (CONTINUED)	GENERAL
 H. Borzani Bartor - galanti for point again and reach priorization of the point of	 G. Maintain a copy of all shop drawings accepted by Architect (Structural Engineer) at site during construction period. 	 Perform construction and workmanship in compliance with contract documents and 2013 California Building Code (CBC). Building Risk
 L. On the server and and basis also drama (Lotter al. 199). Constructions (Lotter al. 1997). Constructions (Lotter al. 1997).	 H. Structural Engineer requires 10 working days after receipt of shop drawings and calculations for processing. 	Category per Table 1604.5 of CBC is II.
 Bart Andream Andr	 Only three copies of each structural shop drawing submittal will be accepted for review and marked with comments, if any. Additional 	and Safety.
 P. Bolt Alexange desing all assignations without an algorithm in product assignations without and algorithm. The second product assignation all assignations are all assignations and an algorithm. The second product assignations are all assignations areal assignations are all assignations are all assignations a	copies submitted will not be returned.	3. Design Criteria: Eloor Live Loads:
 Set Set Set Set Set Set Set Set Set Set	 Submit drawings showing all slab penetrations per level on a single plan prior to erecting form work. 	Typical Public Space = 100 psf (Non reducible)
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 B. See optimized water spectra in the spectra in the	14. Install and anchor mechanical and electrical and plumbing equipment to	Basic Wind Speed = 110 mph Risk Category: II
 and and proving setting in a contrast set of the set	CBC 1616.1.17 through 1616.1.28. Isolators, fasteners and any other	Wind Exposure = B
 See any program of the set of t	or equivalent testing procedure and be capable of transmitting code	Design Velocity Pressure qh = 18.4 psf per ASCE 7-10 Eq 30.3-1 assuming mean roof height h =30 ft
 Proceedings and due to comply on their cells of Charles for the C	required lateral loads. Provide suspended equipment with approved lateral or sway bracing.	Note: Required adjustments to qh for project specific
Conversion of the series of the series in the series of the series in th	15. Brace piping and ducts complying with latest edition of "Guidelines for Seismic Restraints of Mechanical Systems" by the Sheet Metal and Air	adjustment factors in the governing building code
Any and present to be shall be descent and the descent of the event of the even of the event of the event of	Conditioning Contractors National Association. The lateral bracing of the system shall not cause twisting or warping to the structural member	Earthquake Design Data Risk Category: II
 Soveret J. In the U.M. and you have the net property of the Structure approaches of the Control of t	Any member to be added in order to eliminate twisting or warping to the structural member shall be the responsibility of the design-build	Seismic Importance Factor = 1 Mapped Spectral Acceleration
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 Provide Addition control and the form a control in the process for a control of the process form and the the pr	 The CAD drawing files are the property of the Structural Engineer and will not be released to the Contractor or subcontractor for their use. 	Site Class = D Spectral Response Coefficients
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 control dampine trans Control dampine trans da	review. After review, submit deferred submittal items to the Governing Code Authority for approval prior to installation. The following is a list of	Seismic Design Category = D
 Lobits and predict and predic and predict and predict and predict and predict and predict	deferred approval items:	Carwash Building Basic Seismic-Force Resisting System = Steel SMF
 L. Henn deschard plants. A. Detrain deschard plants.	 Cold formed metal stud system, exterior and interior Design-build steel stairs 	Design Base Shear = 104 kips (service) Seismic Response Coefficient, Cs = 0.0.090 (service)
 Nationalization of reference at durations are per COC page 35. Contractions requires in the second of video sector of appendix photo- sector of sector performance and sector performance a	 Exterior storefront systems Pre-manufactured steel joists 	Response Modification Factor, R = 8 Analysis Procedure used = ELF
 Contactions expended for the controlling of additional in Science forms from the second power and to be lower and to be lower and to be control and the control operating of the control operating operating of the control operating ope	18. All abbreviations of referenced standards are per CBC Chapter 35.	Retail Building
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 Response Molification Floated, Response Molificat	Inspection shall submit a written statement of responsibility to the governing code authority and the Owner prior to the commencement of	Design Base Shear = 31.4 kips (service) Seismic Response Coefficient, Cs = 0.111 (service)
 Pollubitrons Pollubitrons<	work on such system or component per Section 1704.4.	Response Modification Factor, R = 6.5, 8 Analysis Procedure used = ELF
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 Gebetichnical Engineer or his representative prior to placement of fill, reinforcing steel, or contract. Perform filing, backtling, compaction, etc., as indicated in Geotechnical Report and only under supervision. Unless adequately shore training walls during backtling performing works, including shop drawing development, consider requirements of contract documents in their entry (e.g., size and location of openings, pentrations and embedment for ducks, ppling, vent, isonalities, etc.). Do not place backfill behind retaining walls prior to completion and impaction of the statements of contract documents in their entry (e.g., size and location of openings, pentrations and embedment for ducks, ppling, vent, isonalities, etc.). Details and scheduler, as 'upplical' may not be specifically detail or schedule applies before proceeding with work. If conditions are found which are of specifically details or schedule applies before proceeding with work. If conditions are found which are not specifically details or schedule applies before proceeding with work. If conditions are found which are not specifically details or schedule applies before proceeding with work. If conditions are found which are not specifically details or schedule applies before proceeding with work. Provide moth welded with data method of sense noted otherwise per plans. ASTM A616, Grade 60 primoring may be used in lise of ASTM A616, Grade 60 primoring may be used in lise of ASTM A616, Grade 60 primoring may be used in lise of ASTM A616, Grade 60 primoring may be used in lise of ASTM A616, Grade 60 primoring may be used in lise or ASTM A616, Grade 60 primoring may be used in lise or ASTM A616, Grade 60 primoring may be used in lise or ASTM A616, Grade 60 primoring may be used in lise or ASTM A616, Grade 60 primoring may be used in the area or any and be applies, prompty notify Architect (Structural Engineer) provide decause schedule and stately ordinations. Provide moth welded were indicated. If	7. Foundation excavations are to be observed by and acceptable to a	 Structural drawings, as part of contract documents, indicate information sufficient to convey design intent. If errors, inconsistencies or omissions
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 Minimum clear distance at columns shall be 1-1/2" or 1-1/2 bar diameters, whichever is greater. For bundled bars, minimum clear distances between units of bundled bars shall be same as single bars except bar diameter is derived from equivalent total area of bundle. Minimum concrete coverage: maintain the following minimum clear distances between reinforcing steel and face of concrete unless noted otherwise: slabs on grade (center of slab) concrete below grade, formed 2" concrete below grade, formed 2" concrete below grade, unformed 3" Chairs or spacers for reinforcing shall be plastic or plastic coated when resting on exposed surfaces. Provide dowels matching vertical reinforcing size and spacing, unless noted otherwise. Weld reinforcing steel complying with AWS D1.4. If welding of reinforcing steel other than A706 is desired, submit proposed procedure, indicating conformance to code and requirements of Governing Code Authority, to Arrebit (Chructural Engineer) and calculations to Governing Code Authority, to Arrebit (Chructural Engineer) and calculations to Governing Code Authority, to Arrebit (Chructural Engineer) and calculations to Governing Code Authority, to Arrebit (Chructural Engineer) and calculations to Governing Code Authority, to Arrebit (Chructural Engineer) and calculations to Governing Code Authority. 	 Minimum clear distances between reinforcing steel, including spliced reinforcing steel, shall be 1" or 1 bar diameter, whichever is greater. 	request, subject to review, is submitted to Architect (Structural Engineer) prior to its use, installation in the field, or inclusion on any shop drawing.
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 A. Contract documents and stamp shop drawings documenting this contract documents and stamp shop drawings documenting this review prior to submission. B. Submit shop drawings to Architect (Structural Engineer) for review. Do not commence fabrication until review process is completed. C. When an engineer is required to sign and stamp shop drawings and calculations, the seal shall indicate that the engineer is registered where project occurs. D. Shop drawings are not a part of contract documents, and review is for general conformance with design intent only. Architect's (Structural Engineer's) review does not constitute an authorization to deviate from the contract or the building code. E. Shop drawings will be rejected for incompleteness, lack of coordination with other portions of contract documents, lack of calculations (if required), or where modifications or substitutions are indicated without prior review. 	units of bundled bars shall be same as single bars except bar diameter is derived from equivalent total area of bundle.	11. Shop drawing submittals:
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	steel other than A706 is desired, submit proposed procedure, indicating conformance to code and requirements of Governing Code Authority, to	indicated without prior review. F. Submit shop drawings and calculations to Governing Code Authority



SHEET SCALE 12" = 1'-0" **PROJECT MANAGER :** MH DESIGNER JN DRAWN BY : FS **REVIEWED BY :** 1st DEPT. SUBMITTAL X/X/2016 ISSUED FOR CONST. JOB NUMBER 16-S003 CAD FILE NAME S0.01

when specifically indicated or requested.

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	TESTING, INSPECTION & VERIFICATION TASKS		ENCY PERIODIC
	STRUCTURAL STEEL INSPECTIONS & VERIFICATION		
1.	(TABLE 1705.2.1) Material verification of high-strength bolts, nuts and		-
	a. Identification markings to conform to ASTM standards specified in the approved		
	construction documents. (See drawings, ASTM Standards, ANSI/AISC 360 Section A3.3)		X
2.	b. Manufacturer's certificate of compliance required.		X
	a. Bearing-type connections. (ANSI/AISC 360 Section M2.5)		Х
3.	b. Slip-critical connections. (ANSI/AISC 360 Section M2.5) Material verification of structural steel:	X	
	 Identification markings to conform to ASTM standards specified in the approved construction documents 		Х
_	b. Manufacturers' certified mill test reports.		X
4.	A Material verification of weld filler materials: a. Identification markings to conform to AWS specification in the approved construction		v
	documents. (ANSI/AISC 360 Section A3.5) b. Manufacturer's certificate of compliance required.		X
5.	Inspection of welding:		
	a. Structural steel: (AWS D1.1) 1) Complete and partial penetration groove welds.	X	
	2) Multi-pass fillet welds.	X	
	4) Single-pass fillet welds ≤ 5/16"	^	X
	5) Floor and roof deck welds. (AWS D1.3) 6) Shear connectors. (ANSI/AISC 360 Section A3.6)		X X
	b. Reinforcing steel: (AWS D1.4, ACI 318: 3.5.2)		<u> </u>
	1) Verification of weldability of reinforcing steel other than ASTM A 706. 2) Reinforcing steel-resisting flexural and axial forces in intermediate and special		X
	moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement.	x	
	3) Shear reinforcement.	X	v
6.	4) Other reinforcing steel. Inspection of steel frame joint details for compliance with approved construction documents:		X
	a. Details such as bracing and stiffening.		X
	c. Application of joint details at each connection.		X
	SPECIAL PROVISIONS FOR SEISMIC RESISTANCE		
7.	The testing shall be as required by AISC 341.		
8.	Base metal thicker than 1.5 inches (38 mm), where subject to through-thickness weld shrinkage strains, shall be ultrasonically tested for discontinuities behind and adjacent to such welds after joint completion.		
9.	The acceptance criteria for nondestructive testing shall be as required in AWS D1.1. Any material discontinuities shall be accepted or rejected on the basis of ASTM A 435 or ASTM A 898 (Level 1		
10.	criteria). Continuous special inspection is required for structural welding in accordance with AISC 341		
	CONCRETE INSPECTIONS & VERIFICATION (TABLE 1705.3)		
1.	Inspection of reinforcing steel, including prestressing tendons, and placement. (ACI 318: 3.5, 7.1 -7.7)		X
2.	(AWS D1.4, ACI 318: 3.5.2)		
3.	Inspect anchors cast in place where allowable loads have been increased and post-installed in hardened concrete members.		Х
4. 5.	Verify use of required design mix. (ACI 318: Ch. 4, 5.2 – 5.4) At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air		X
	content tests, and determine the temperature of the concrete. (ASTM C 172, ASTM C 31, ACI 318; 5.6, 5.8)	X	
6.	Inspection of concrete and shotcrete placement for proper application techniques. (ACI 318: 5.9, 5.10)	X	
7. 10.	Inspection for maintenance of specified curing temperature and techniques. (ACI 318: 5.11 – 5.13) Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior		<u> </u>
11.	to removal of shores and forms from beams and structural slabs. (ACI 318: 6.2) Inspect formwork for shape, location and dimensions of the concrete member being formed. (ACI 318:		
	6.1.1)		
	SPECIAL PROVISIONS FOR SEISMIC RESISTANCE		
12.	Verify submittal of certified mill test reports for each shipment of reinforcing steel used to resist flexural, shear and axial forces in reinforced concrete intermediate frames, special moment frames and boundary		х
13.	elements of special reinforced concrete or reinforced masonry shear walls. (ACI 318: 3.5.2, AWS D1.4) Test ASTM A 615 reinforcing steel is used to resist earthquake-induced flexural and axial forces in		
	special moment frames and in wall boundary elements of shear walls in structures assigned to Seismic Design Category D, E or F, per ACI 318.		Х
14.	Test ASTM A 615 reinforcing steel that is to be welded, chemical tests shall be performed to determine weldability in accordance with Section 3.5.2 of ACI 318.		Х
15. 16	Installation of (chemical / epoxy) adhesive anchors, rods and dowels.	X	
10.		^	
	MASONRY INSPECTIONS & VERIFICATION - LEVEL B		_
1.	Verify compliance with the approved submittals		Х
2.	As masonry construction begins, the following shall be verified to ensure compliance: a. Proportions of site-prepared mortar.		X
	b. Construction of mortar joints.		X
	c. Grade and size of prestressing tendons and anchorages d. Location of reinforcement, connectors, prestressing tendons and anchorages.		<u> </u>
3.	The inspection program shall verify:		V
	a. Size and location of structural elements. b. Type, size and location of anchors, including other details of anchorage of masonry to		X
	structural members, frames or other construction. c. Specified size, grade and type of reinforcement.		X
	d. Welding of reinforcing bars.	X	
	(temperature above 90°F).		X
4.	Prior to grouting, the following shall be verified to ensure compliance: a. Grout space is clean.		X
	 b. Grade, type, and size of reinforcement and anchor bolts and prestressings tendons and anchorages 		Х
	c. Placement of reinforcement, connectors, prestressing tendons and anchorages.		X
	 d. Proportions of site-prepared grout and prestressing grout for bonded tendons. e. Construction of mortar joints. 		<u> </u>
5.	Application and measurement of prestressing force	X	
6. 7.	Placement of grout and prestressing grout for bonded tendon is in compliance Observe preparation of grout specimens, mortar specimens and/or prisms	X	X
_	MINIMUM TESTS		
8. 9.	Installation of Chemical / epoxy) adhesive anchors, rods and dowels	 X	
10.	Installation and torque testing expansion anchors in concrete or masonry	X	
	LIGHT FRAMED CONSTRUCTION		
	Inspect grade stamp on framing lumber, plywood and OSB panels to verify lumber species, grading, size,		x
1.	Verify nail, staple, screw, and bolt / fastener type, grade and location.		X
1. 2.	Inspect wood connections including nailing, bolting, anchor bolts, tie downs, beam hangers and framing		X
1. 2. 3.	anchors. (see note)		
1. 2. 3. 4.	anchors. (see note) Inspect diaphragms and shear walls for proper panel thickness and fastener pattern.		X
1. 2. 3. 4.	anchors. (see note) Inspect diaphragms and shear walls for proper panel thickness and fastener pattern. REQUIRED SPECIAL INSPECTIONS for WIND RESISTANCE (1705.10)	See No	X te #3
1. 2. 3. 4. 1.	anchors. (see note) Inspect diaphragms and shear walls for proper panel thickness and fastener pattern.	See No	X te #3 X
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1. 2. 3. 4. 1. 2. 3. 4. 5. 1. 2. 3. 4. 5. 1. 2. 3. 4. 5.	anchors. (see note) Inspect diaphragms and shear walls for proper panel thickness and fastener pattern. REQUIRED SPECIAL INSPECTIONS for WIND RESISTANCE (1705.10) Roof cladding and roof framing connections. Wall connections to roof and floor diaphragms and framing. Vertical windforce-resisting systems, including braced frames, moment frames and shear walls. Windforce-resisting system connections to the foundation. Fabrication and installation of systems or components required to meet the impact-resistance Requirements of section 1609.1.2. FOUNDATION INSPECTIONS & VERIFICATION SOILS - TABLE 1705.6 Verify subgrade materials below the footing for design bearing capacity. Verify depth of excavation and type of subgrade materials reached. Perform classification and compaction testing of controlled backfill materials. Verify materials used lavered thicknesses and compaction of back fills	See No	X te #3 X X X X X X te #4 X X X

HIGH LIFT GROUT FILLED CELL CONCRETE MASONRY HIGH LIFT GROUTING METHOD IR 21-2.10 (CONTINUED)

If, because of unavoidable job conditions, the placing of the succeeding lift is going to be delayed beyond the period of workability of the preceding lift, reconsolidate each lift by reworking with the mechanical vibrator as soon as the grout has taken its settlement shrinkage.

Repeat the waiting, pouring and reconsolidation steps until the top of the pour is reached. Reconsolidate the top lift after the required waiting period to fill any space left by settlement shrinkage.

- 10. Blow outs: if a "blow-out" occurs and the contractor immediately patches or shores the wall while the grout is still in a fluid state, the contractor shall reconsolidate the group by mechanical vibration. if the grout achieves its initial set prior to this reconsolidation, the zone of damage shall be delineated for removal. the special inspector shall immediately report the extent of the blow-out damage to the project inspector, architect, structural engineer, and dsa and shall keep records of the blow-out and any repair procedures for review by the dsa field engineer.
- 11. Cleaning Wall. Immediately after the wall has been fully grouted, hose off with water under pressure through a jet nozzle, to remove all the scum and stains which have percolated through the blocks and joints.
- 12. Curing. Attention should be given to proper curing of the mortar joints as well as the grout pour. The concrete block work and top of the grout pour should be kept damp to prevent too rapid drying during hot or dry weather, and drying winds.
- Inspection and Core Tests
- 5.1 Inspection. All masonry work is required to be continuously inspected during laying, placing of reinforcing, and grouting by an inspector specially approved for that purpose by the DSA. A qualified individual acceptable to the testing laboratory shall make test samples and perform such field tests as are required.
- The special masonry inspector checks the materials, details of construction and construction procedure. The inspector shall furnish a verified report on DSA Form DSA-292 that of his own personal knowledge the work covered by the report has been performed and materials used and installed in every particular accordance with and in conformity to the duty approved plans and specifications.
- 5.2 Core Tests. Take core tests of the completed masonry construction in accordance with CBC, Section 2105A.5.

The owner's inspector or testing agency is to inspect the coring of the masonry walls and prepare a report of coring operations. State in this report the number, the location and the condition of all cores cut on the project. Pay particular attention to the description of the bond between the grout fill and the cell walls of the masonry unit. The report should also include a description of any difficulties encountered in the coring operation which might impair the strength of the sample. Report results on DSA Form DSA-207.

Submit all cores to the testing laboratory for examination.

All cores shall be tested for the bond strength of the joint between the masonry units and the grout. This test determines the unit force required to shear the masonry unit face shells from the grout core for each face.

QUALITY ASSURANCE

- 1. Testing laboratory shall submit reports indicating results and observations of tests and inspections and stating compliance or noncompliance with contract documents to Architect (Structural Engineer) and to Governing Code Authority. Contractor shall reimburse Owner for costs related to tests and inspections of unidentifiable materials or materials furnished without certified laboratory test reports, materials found deficient after initial tests and inspections, or materials replacing deficient materials. See Specifications for additional test and inspection requirements.
- Provide cement, aggregates, reinforcing steel, structural steel, high-strength bolts, etc., from identifiable tested stock. Submit certified laboratory test reports to Architect (Structural Engineer) and to Governing Code Authority. If materials cannot be identified or if certified laboratory test reports cannot be made available, testing laboratory will perform tests to determine conformance with contract documents as directed by Architect (Structural Engineer).
- 3. Testing laboratory shall provide special inspection, complying with CBC Section 1701 (unless otherwise noted), for the following:
- A. Concrete and reinforcing steel where specified concrete compressive strength is greater than 2500 psi.
- B. Bolts installed in concrete. C. Masonry including testing required to verify specified compressive
- strength (f'm) as stipulated in CBC Section 2105. D. Field welding including shear studs.
- E. High-strength bolts.
- F. Insulating concrete. G. Spray-applied fireproofing.
- 4. Testing laboratory shall review concrete mix design data and shall perform the following concrete tests at frequency indicated in as indicated in Required Inspections of Reinforced Concrete in Quality Assurance Section.
- Testing laboratory shall perform the following tests in structural steel as indicated in Required Inspections of Structural Steel in Quality Assurance Section.
- Testing laboratory shall visually inspect open-web steel joists and provide a stamp of approval prior to installation

X Denotes either continuous or periodic inspections.

--- Denotes an activity that is either a one-time activity or one where the frequency is defined in some other manner

Additional detail regarding inspections and tests are provided in the project specifications and/or notes on the drawings. Refer to design build drawings for design and project specific inspection requirements.

3. Special inspection is not required where design wind speed is less than 110 mph. 4. See Geotechnical Consultant for more information.

HIGH LIFT GROUT FILLED CELL CONCRETE MASONRY HIGH LIFT GROUTING METHOD IR 21-2.10 (CONTINUED)

2. Cleanouts. Provide cleanout openings for all walls at the bottom of each pour in accordance with CBC, Section 2104A.5.1.2.1.2. The openings are to be made prior to start of laying and be of sufficient size and location to allow thorough flushing away of all mortar droppings and debris. If the bottom of the pour is constructed entirely of inverted open-end bond beam units, cleanout openings need only be provided in the reinforced cells.

> After the laying of the masonry units is completed, the cells cleaned, the reinforcing positioned and inspection completed, close the cleanouts by inserting face shells of masonry units or covering the openings with forms. Face shell plugs are to have a two-day minimum curing time and be adequately braced to resist the pressure of the fluid grout.

- 3. Reinforcement. Place all reinforcing steel accurately in strict accordance with the approved DSA plans and specifications. For high lift grouting in an 8" block wall, all horizontal steel shall be placed in a single vertical plane in order to provide for continuous and unobstructed vertical cells. Both horizontal and vertical reinforcing are to be held in position by wire ties or spacing devices near ends and at intervals not exceeding 192 diameters of the reinforcement. Place the horizontal reinforcing as the work progresses. The vertical reinforcing may be dropped into position after the completion of the laying if adequate positioning devices are provided to hold the reinforcement in its proper location near the bottom of the wall and at intervals not exceeding 192 bar diameters.
- 4. Masonry Units. Use of open-end concrete masonry units is preferred, wherever possible, and is required for stacked bond. Open-end bond-beam units are to be used wherever possible to facilitate the horizontal flow of grout. Bond-beam units are required at all horizontal bars to provide a minimum vertical opening at all cross webs three inches high by three inches wide.

The concrete masonry units need not be wetted before laying except in dry areas where the contact surfaces of the units should be moistened immediately before laying to prevent excessive drying of mortar.

- 5. Laying. Fill all head and bed joints solidly with mortar for a distance in from the face of the unit not less than the thickness of the face shell. Care shall be taken in placing the mortar to keep a minimum of droppings from falling into the block cells. Arrange open-end concrete masonry units used in stacked bond so the closed ends are not abutting.
- 6. Wall Ties and Bracing. When stacked bond is used, or when adequate cross webs between face shells are not provided, ties of heavy gage wire embedded in the horizontal mortar joints should be provided across continuous vertical joints or between face shells to prevent "blow-outs" due to the hydrostatic pressure of the fluid grout. External ties or braces may also be used for this purpose.
- 7. Mortar Droppings and Overhangs. Mortar that projects into the grout space more than 1/4" shall be removed. Thoroughly remove all mortar droppings and overhangs from the foundation or bearing surface, cell walls and reinforcing. An acceptable method is by providing a two or three inch blanket of dry sand over the exposed surface of the foundation, dislodging any hardened mortar from the cell walls and reinforcing with a pole or rod and removing the mortar debris with the sand cover prior to clean up and grouting.
- 8. Construction Joints. In the high lift grouting method, intermediate horizontal construction joints are not permitted. Plan the work for one continuous pour of grout to the top of the wall in maximum four foot layers or lifts in the same working day. Should a blow-out, a breakdown in equipment, or any other emergency occur, cease the grouting operation. An alternate procedure may be used with the approval of the architect or structural engineer and DSA.

The section of wall to be grouted in any one pour is limited to a length in which successive lifts can be placed within one hour of the preceding lifts. Vertical control barriers shall be placed between pour sections in locations approved by the architect or structural engineer and DSA.

9. Grouting. All cells shall be clear and unobstructed. To be considered "unobstructed" all of the following requirements must be met:

- a. For grout pours up to and including twelve feet in height the minimum grout space dimensions of all cells shall be three inches by three inches.
- b. For grout pours over twelve feet in height (only permitted for walls with a nominal thickness of twelve inches or more) the minimum grout space dimensions of all cells shall be three inches by four inches.
- c. The minimum grout space dimensions of cells containing horizontal reinforcing steel, electrical conduits or any other obstruction shall be increased by the diameter or width of the obstruction, and
- d. No cell shall contain vertical reinforcing steel exceeding six percent of the cell area.

To prevent "blow-outs," pour no grout until the mortar has been set and cured. However, grout the walls as soon as possible after mortar has cured to reduce shrinkage and cracking of the vertical joints. All cleanout closures, reinforcing, bolts and embedded connection items are to be secured in position before grouting is started.

Handle grout from the mixer to the point of deposit in the grout space as rapidly as practical by pumping and placing methods which will prevent segregation of the mix and cause a minimum of grout

splatter on reinforcing and masonry unit surfaces not being immediately encased in the grout lift. Depending upon weather conditions and absorption rates of the masonry units, the lift heights and waiting periods may be varied. Under normal weather conditions, with typical masonry units, the individual lifts of grout are limited to four feet in height with a waiting period between lifts of 30 to 60 minutes.

Place the first lift of grout to a uniform height within the pour section and mechanically vibrate thoroughly to fill all voids. The grouting team should be organized to enable the vibration to follow closely behind and at the same pace as the pouring operation.

After a waiting period sufficient to permit the grout to become plastic, but before it has taken any set, the succeeding lift should be poured and alternate cells vibrated twelve inches to eighteen inches into the preceding lift. Do this in such a manner as to reconsolidate the preceding lift and close any plastic shrinkage cracks or separations from the cell walls.

HIGH LIFT GROUT FILLED CELL CONCRETE MASONRY HIGH LIFT GROUTING METHOD IR 21-2.10

(DSA).

1. Description. The high lift grouting method as developed for use in reinforced concrete block masonry is intended for use on wall construction where openings, block pattern arrangements, special reinforcing steel, or embedded structural steel details do not prevent the free flow of grout or inhibit the use of mechanical vibration to properly consolidate and reconsolidate the grout fill in all cells or horizontal grout spaces. Horizontal reinforcing should be positioned in a single vertical plane at each curtain of steel to allow maximum accessibility to the cell spaces.

The high lift method requires that all masonry units, reinforcing steel and embedded items will be in place before grouting of the wall commences. The work should be so arranged that once grouting of a section of wall is started the grouting shall proceed in lifts without stopping, except as noted below until the full height of the prepared section is poured. The waiting period between lifts shall be limited to the time required to obtain an initial consolidation of grout due to settlement, shrinkage and absorption of excess water by the masonry units. This also allows for a reduction in hydrostatic pressure of the grout on the masonry unit and reduces the possibility of "blow-outs."

The grout shall be a high-slump workable mix, preferably placed by pumping to permit continuous pouring. The grout shall be worked into all voids. Mechanical vibrators shall be used for consolidation and reconsolidation. Where job conditions preclude such use, other methods may be employed if approved in advance, by DSA. Because of the high water/cement ratio used in this type of grout, it is essential that the grout be reconsolidated after it has taken on a plastic consistency, but prior to taking an initial set. The reconsolidation is intended to overcome settlement shrinkage, separation from the reinforcing steel and to promote bond to the masonry unit walls.

For the purpose of this IR, a "pour" is considered as the entire height of grout fill placed in one day and is composed of a number of successively placed grout lifts. A "lift" is the layer of grout placed in a single continuous operation.

The maximum height of pour is limited by the practical considerations of segregation of grout due to the height of free fall, effect of dry grout deposits left on block projections, congestion due to reinforcing steel and embedded items, and the ability to effectively reconsolidate the grout. Unless specifically approved otherwise, the maximum height of pour will be 12 feet. walls with a nominal thickness of less than 12 inches. For height of lift see Item 4 (9.) of this IR.

Quality of Materials. All materials are to conform to the "Masonry" section of the general notes, with the following additional requirements:

2. Admixture. The grout should contain an admixture of the type that reduces early water loss to the masonry units and produces an expansive action in the plastic grout sufficient to offset initial shrinkage and promote bonding of the grout to all interior surfaces of the masonry units. Admixtures shall meet the requirements of CBC Section 2103A.15 or 2114.3 and have an evaluation report meeting the requirements of DSA form IRA-5. Obtain the approval of the architect or structural engineer and DSA for use of the admixture.

1. Place approximately half of the required water and sand into the mixer while running.

uniform mass.

Section 7.3.

3.2 Grout. The grout mix is to comply with the requirements of CBC Section 2103A.13 and ASTM C476. All cells shall be solidly filled with grou in reinforced hollow unit masonry per CBC Section 2104A5.1.2.1. Coarse grout is required per CBC Section 2103A.13.3.

Sufficient water may be added to make a workable mix that will flow into all voids of the masonry without separation or segregation. When grout is to be placed in masonry units with typical rates of absorption, the slump of the grout should be approximately eight to eleven inches (8"-11") depending on temperature and humidity conditions per TMS 602-11 Article 2.6.B.2 and ASTM C476 Section 4.2.2.

Grout mixes are to contain an approved admixture conforming to the requirements of Item 2 (3.) above. Use such admixture strictly in accordance with the manufacturer's instructions and appropriate listing from ICC-ES or other acceptable elevation agency per DSA form IRA-5.

3.3 Mixing of Grout. The mixing of grout is to conform to the requirements of ASTM C476 for mixing of concrete, CBC, Section 1905A.8. Whenever possible mix and deliver grout in accordance with the requirements for transit-mixed concrete.

Time the admixture addition in strict accordance with the manufacturer's instructions. The procedure used for adding the admixture to the grout mix should provide for good dispersion.

3.4 Tests. Testing of mortar and grout is to conform to the requirements of CBC, Section 2105A.2.2.1.4.

4. Construction. The construction of high lift concrete block masonry work is to conform to the requirements of CBC, Chapter 21A, with the following additional requirements:

1. Foundations. The contact surface of all foundations and floors that are to receive masonry work are to be thoroughly cleaned and roughened before start of laying. Protect the roughened surface during construction to assure a good bond between the grout fill and the concrete surface.

Purpose: The purpose of this IR is to provide the requirements and procedure for high lift reinforced hollow-unit concrete masonry grouting when the use of this method is approved by the Division of the State Architect

Aggregate. Aggregate is to conform to ASTM C404.

Mortar and Grout

3.1 Mortar. Mortar is to comply with the requirements of CBC Section 2103A.8, with the following additional requirements:

2. Add cement and the remainder of the sand and water into the mixer in that order and mix for a period of at least two minutes.

3. Add lime and continue mixing as long as needed to secure a

4. The total mixing time shall be 3 to 5 minutes per ASTM C270

5. When pre-blended mortar is specified, mixing shall conform to manufacturer's instructions.

STEEL STAIRS. DESIGN-BUILD

- 1. All steel stairs are design-build unless specifically designed and detailed on drawings. Notes below apply to design-build steel stairs only.
- 2. Design stairs including framing members, connections (including those to building structure), checkered plates, steps, handrails, etc., and provide for lateral restraint complying with contract documents and governing code. Building lateral resisting system may be utilized for stair lateral restraint provided load paths to building lateral resisting system are indicated in calculations and connections shown on shop drawings.
- 3. At connections to structure, provide stabilizing elements such as braces, stiffener plates, etc., so as not to impose eccentric loading, twisting, or warping to structural members. Provide material and install stabilizing elements at no additional cost to Owner.
- 4. Submit shop drawings and structural calculations signed by and bearing the seal of a civil engineer registered in the State of California to Architect (Structural Engineer) for review and to Governing Code Authority for approval.

DESIGN-BUILD FIRE SPRINKLER SYSTEM

The design-build fire sprinkler system shall be designed and detailed in conformance with the following requirements:

- 1. The sprinkler pipes shall not penetrate or notch the floor or roof framing members.
- 2. The sprinkler piping system shall be suspended from the structural framing and be braced against lateral forces in accordance with the requirements of 2013 CBC.
- 3. Prior to fabrication/installaion of the system, shop drawings shall include, but not be limited to, the following:
- A. Sprinkler piping layout with pipe sizes shown.
- B. Pipe hanger and lateral brace locations.
- C. Details of pipe hangers and lateral braces.
- D. Design calculations of the hangers and braces stamped and signed by a California registered Civil Engineer.
- E. Sprinkler hanger shall be located as such the weight of the sprinkler system will be distributed uniformly to the supporting structure.
- F. The lateral bracing of the system shall not cause twisting or warping to the structural member. Any member to be added in order to eliminate twisting or warping to the structural member shall be the responsibility of the design-build fire sprinkler contractor.

DESIGN BUILD EXTERIOR CLADDING, SHADING SYSTEMS AND SKYLIGHTS

- 1. Contract documents indicate design intent only and do not reflect the complete engineered design to be provided by the Contractor for systems such as metal studs, curtain walls, storefronts, windows, architectural panels, veneer, shading devices, skylights, etc. Provide a complete system including components such as supplemental structural members, internal reinforcement and connections, as required, at no additional cost to the Owner whether or not shown on the contract documents.
- 2. At connections, do not impose eccentric loads on the structure. Where required, provide stabilizing elements such as braces, stiffener plates, etc., acceptable to the Architect (Structural Engineer) at no additional cost to Owner.
- 3. Provide members, connections and lateral restraint complying with applicable governing code and contract documents.
- 4. Any additional steel members and connections required by the manufacturer for permanent conditions, erection, or transportation that are not already shown as part of the design intent, shall be provided at no additional cost to the Owner.
- 5. Provide adequate expansion, contraction, seismic separation and drift joints between elements complying with the building code and contract documents. Submit all drift joint locations to Architect (Structural Engineer) for review and approval.
- 6. Submit shop drawings and structural calculations prepared by a registered professional (civil) engineer to Architect (Structural Engineer) for review and Governing Code Authority for approval.



SHEET SCALE 12" = 1'-0" **PROJECT MANAGER** : MH DESIGNER JN DRAWN BY : FS **REVIEWED BY** 1st DEPT. SUBMITTAL X/X/2016 **ISSUED FOR CONST.** JOB NUMBER 16-S003 CAD FILE NAME S0.02





STRUCTURAL OBSERVATION

- Structural observation is required for the structural system in accordance with CBC Section 1704.5. Structural observation is the visual observation of the elements and connections of the structural system at significant construction stages and the completed structure for general conformance to the approved plans and specifications. Structural observation does not waive the responsibility for the inspections required of the Building Inspector or the Special Inspector.
- 2. The Owner shall employ a registered design professional to perform the structural observation. The Engineer or Architect shall be registered or licensed in the State of California. The Department of Building and Safety recommends the use of the Engineer or Architect responsible for the structural design when they are independent of the Contractor.
- 3. 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.
- 4. 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 following significant construction stages require a site visit and an Observation Report from the Structural Observer:

C	ONSTRUCTION STAGES	ELEMENTS/CONNECTIONS TO BE OBSERVED
A.	Foundations	First grade beam reinforcing steel placement. First anchor bolt placements at SMF/EBF base plate.
В.	Structural Steel	First SMF/EBF connections, bracing and seismic joint connection at floor and roof.
C.	Floor and Roof Steel Deck	Chord reinforcing and deck welding for first concrete pour. Initial installation of ShearTranz.

- 5. The Structural Observer shall prepare a report for each significant stage of construction observed. The original of the 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. Copies of the report shall also be given to the Owner, Contractor, and Deputy Inspector.
- 6. A final Observation Report must be submitted to the building official, owner and Architect (Structural Engineer) which states that the site visits have been made and that all report deficiencies to the best of the structural observer's knowledge has been corrected and that the structural system generally conforms with the approved plans and specifications.
- The Structural Observer shall send the original report to the following inspection office:

City of Santa Ana Department of Building and Safety



SHEET SCALE : 12" = 1'-0" **PROJECT MANAGER :** MH **DESIGNER** : JN DRAWN BY : FS **REVIEWED BY :** 1st DEPT. SUBMITTAL X/X/2016 ISSUED FOR CONST. JOB NUMBER 16-S003 CAD FILE NAME S0.03





•	D	AREA (sq.in.)	0.	11	0.	20	0.3	31	0.	44	0.	60	0.	79	1.(00	1.:	27	1.	56
1		DIAMETER 0.375		575	0.	0.500 (625	0.7	0.750		0.875		1.000		1.128		1.270		10
	SCRIPTION	VORMAL NEIGHT ONCRETE fc PSI	#	3	#	4	#	5	#	6	#	7	#	8	#	9	ť	10	#´	11
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	COVER	3000	21	16	23	18	28	22	34	26	49	38	56	43	63	49	71	55	79	61
	≥2db AND	4000	21	16	21	16	25	19	29	23	43	33	49	37	55	42	62	47	68	53
	CLEAR SPACING	5000	21	16	21	16	22	17	26	20	38	29	44	34	49	38	55	43	61	47
	≥4db	6000	21	16	21	16	21	16	24	19	35	27	40	31	45	34	50	39	56	43
		3000	28	22	38	29	47	36	56	43	81	63	93	72	105	81	118	91	131	101
	ALL	4000	25	19	33	25	41	31	49	37	71	54	81	62	91	70	102	79	114	87
	OTHERS	5000	22	17	29	23	36	28	44	34	63	49	72	56	81	63	92	71	102	78
		6000	21	16	27	21	33	26	40	31	58	45	66	51	74	57	84	64	93	71
	COVER	3000					70	54	84	64	122	94	139	107	157	121	177	136	196	151
	<db OR</db 	4000					61	47	73	56	106	81	121	93	136	105	153	118	170	131
	CLEAR SPACING	5000					54	42	65	50	95	73	108	83	121	94	137	105	152	117
	<2db	6000					50	38	59	46	86	67	99	76	111	85	125	96	139	107



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S0.11





SHEET SCALE :	As indicated
PROJECT MANAGER :	MH
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	X/X/2016
ISSUED FOR CONST. :	
JOB NUMBER	16-S003
CAD FILE NAME	
	S0.12









2ND BUILDING PLAN CHECK COORDINATION 05.18.2017

S0.21

16-S003

JOB NUMBER





02 **RDINATION** CHECK PLAN BUILDING 2ND

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PLYWOOD SHEATHING SEE ROOF PLAN -



RED-L/RED-W JOIST-2x BLOCKING w/ 2 ROWS OF 16d @ 6"o.c. BETWEEN RED-W/RED-L JOISTS IN SHEAR WALL SCHEDULE FOR THE LOWER WALL

EDGE NAILING

PLYWOOD SHEATHING SEE ROOF PLAN -



RED-L/RED-W JOIST-2x BLOCKING w/ 2 ROWS OF 16d @ 6"o.c. BETWEEN RED-W/RED-L JOISTS UNLESS NOTED OTHERWISE IN SHEAR WALL SCHEDULE FOR THE LOWER WALL EDGE NAILING

10d @ 4"o.c. AT EACH BLOCKING-SEE PLAN -



EDGE NAILING -

2x SOLID BLOCKING w/16d TOENAIL EACH SIDE STAGGERED -PLYWOOD SHEATHING PER PLAN -

OPEN WEB JOIST PER PLAN _____







SHEET SCALE : As indicated PROJECT MANAGER MH DESIGNER JN DRAWN BY : FS **REVIEWED BY :** 1st DEPT. SUBMITTAL X/X/2016 ISSUED FOR CONST. JOB NUMBER 16-S003 CAD FILE NAME S0.43





SHEET SCALE As indicated PROJECT MANAGER MH DESIGNER JN DRAWN BY : FS **REVIEWED BY** 1st DEPT. SUBMITTAL X/X/2016 **ISSUED FOR CONST.** JOB NUMBER 16-S003 CAD FILE NAME S0.44

CONNECTION SCHEDULE								
BEAM SIZE	A325-N	SHEAR PLATE "ť"	WELD BOTH SIDES	ASD AVAILABLE STRENGTH	LFRD AVAILABLE STRENGTH			
W6x, C6x	(2)3/4"ø	3/8	5/16	4.9k	7.4k			
W8x, W10x C8x, C10x	(2)3/4"ø	3/8	5/16	8.8k	13.1k			
W12x, W14x C12x	(3)7/8"ø	3/8	5/16	23.9k	35.8k			
W16x, W18x	(4)7/8"ø	3/8	5/16	45.5k	68.3k			
W21x	(5)7/8"ø	3/8	5/16	63.2k	94.8k			
W24x	(6)7/8"ø	3/8	5/16	80.7k	121.0k			
W27x	(7)7/8"ø	1/2	5/16	98.2k	147.3k			
W30x	(8)7/8"ø	1/2	5/16	115.3k	173.0k			
W33x	(9)7/8"ø	1/2	5/16	132.4k	198.5k			
W36x	(10)1"ø	1/2	5/16	166.7k	250.0k			

SHEET SCALE As indicated PROJECT MANAGER MH DESIGNER JN DRAWN BY : FS **REVIEWED BY** 1st DEPT. SUBMITTAL X/X/2016 **ISSUED FOR CONST.** JOB NUMBER 16-S003 CAD FILE NAME S0.51

SHEET SCALE : As indicated PROJECT MANAGER MH DESIGNER JN DRAWN BY : FS **REVIEWED BY :** 1st DEPT. SUBMITTAL X/X/2016 **ISSUED FOR CONST.** JOB NUMBER 16-S003 CAD FILE NAME S0.52

∞ **—** 05 **RDINATION** C00 PLAN CHECK BUILDING 2ND

SHEET SCALE : As indicated PROJECT MANAGER MH **DESIGNER** : JN DRAWN BY : FS **REVIEWED BY :** 1st DEPT. SUBMITTAL X/X/2016 ISSUED FOR CONST. JOB NUMBER 16-S003 CAD FILE NAME S0.53

POURSTOP AT BUILDING PERIMETER

LE	NGTH C)F POU
SLAB THICKNESS "t"	<u><</u> 2"	<u><</u> 4"
4" HARDROCK CONCRETE	18GA.	18GA.
5 1/2" HARDROCK CONCRETE	18GA.	16GA.
6" HARDROCK CONCRETE	18GA.	16GA.
7 1/2" HARDROCK CONCRETE	18GA.	16GA.
4 3/4" LIGHTWEIGHT CONCRETE	18GA.	18GA.
6 1/4" LIGHTWEIGHT CONCRETE	18GA.	16GA.

 \mathbf{B}

NOTE:

1. PROVIDE POURSTOPS AS INDICATED IN THE SCHEDULE AND USE DETAIL A UNLESS NOTED OTHERWISE.

2. FOR ALL BUILDING PERIMETER CONDITIONS USE DETAIL B UNLESS NOTED OTHERWISE.

EDGE OF SLAB AT OPENING SEE ARCHITECTURAL FOR LOCATION

EDGE OF SLAB AT OPENING SEE ARCHITECTURAL FOR LOCATION -

* VERIFY HEIGHT OF BENT PLATE w/ARCHITECT.

1'-0"

3/16 3-12 TYP.

MAX.

*

BENT PLATE

1/4 CONT. -

- L4x4x1/4 @ 48"o.c.

∕ <u>3/16</u> ∕ <u>3-12</u> ∕ TYP.

FOR DIRECTION OF DECKING SEE PLAN

DEPUTY INSPECTOR SHALL BE REQUIRED FOR LIGHT GAGE WELDING ON STEEL DECK. 3. DEPUTY INSPECTOR SHALL BE REQUIRED FOR STUDS USED ON STEEL DECK. 4. ALL STEEL DECKING SHALL BE 38 KSI. MINIMUM. 5. SLABS EXPOSED TO WEATHER OR MOISTURE SENSITIVE COVERINGS SHALL BE PROVIDED WITH POSITIVE VENTED STEEL DECK.

	TOTAL			STEEL DECK ATTACHMENT PATTERN					/AXIMUM			
MARK		K GAGE SLAB			PERPENDICULA	R TO SUPPORT	PARALLEL		UNSHORED SPAN		REMARKS	
			"t"		ENDS	INTERMEDIATE	SUPPORT	SEAMS	SINGLE	DOUBLE	TRIPLE	
D1	VERCO HSB-36	18	-	SEE ARCHITECTURAL	(7)1/2"ø PUDDLE WELDS	(7)1/2"ø PUDDLE WELDS	1/2"ø @ 12"o.c. PUDDLE WELDS	TOP SEAM WELD AT 12"o.c.	8'-0"	9'-0"	9'-0"	
D2	VERCO B FORMLOK	20	4"	2 1/2" HARDROCK CONCRETE w/ WWF6x6x-W2.9xW2.9	(4)1/2"ø PUDDLE WELDS	(4)1/2"ø PUDDLE WELDS	1/2"ø @ 12"o.c. PUDDLE WELDS	BUTTON PUNCH 36"o.c.	6'-0"	7'-6"	7'-6"	

TYPICAL PERIMETER OF NON-CONCRETE ROOF EDGE

— \mathbf{O} ∞ **—** 05 **RDINATION** C00 CHECK PLAN BUILDING 2ND

FS

X/X/2016

S0.61

16-S003

DRAWN BY

REVIEWED BY

JOB NUMBER

CAD FILE NAME

1st DEPT. SUBMITTAL

ISSUED FOR CONST.

SHEET SCALE :As indicatedPROJECT MANAGER :MHDESIGNER :JNDRAWN BY :FSREVIEWED BY :11st DEPT. SUBMITTAL :X/X/2016ISSUED FOR CONST. :16-5003JOB NUMBER16-S003CAD FILE NAMES0.71

GYPSUM BOARD

VERTICAL STRUT AND DIAGONAL BRACING RESTRAINT POINTS FASTENED TO MAIN RUNNER @ 12'-0"o.c. IN BOTH DIRECTIONS WITH A MINIMUM OF 6'-0" FROM WALLS PER TYPICAL SUSPENDED CEILING TEE GRID BRACING DETAIL

U-CHANNEL 150U050-54 @ 4'-0"o.c.

GYPSUM BOARD CEILNG NOTES:

- BOARD DEAD LOADS SHALL BE APPLIED TO CROSS-FURRING.
- MAXIMUM CEILING SELF WEIGHT INCLUDING SUPPORT FRAMING = 4 PSF.

12GA. DIAGONAL BRACING WIRE. PROVIDE (4)TIGHT TURNS WITHIN 1-1/2" FROM

4

CELG104

NOTES:

1.IF SELF TAPPING SCREWS ARE USED WITH CONCRETE FILL, SET SCREWS BEFORE PLACING CONCRETE FILL.

2.ALTERNATIVE SUSPENSION METHODS TO THOSE INDICATED ARE NOT ALLOWED UNLESS APPROVED BY THE ARCHITECT (STRUCTURAL ENGINEER).

> **TYPICAL SUSPENDED CEILING HANGER &** SWAY WIRE TO ROOF DECK CONN. DETAIL

NOTES: 1.WHEN THE DISTANCE BETWEEN THE STRUCTURAL DECK AND THE CEILING EXCEEDS 4' THE SPACING OF THE VERTICAL HANGERS SHALL NOT EXCEED 2'-0"o.c. ALONG THE ENTIRE MEANS OF THE EGRESS SERVING ON OCCUPANT LOAD OF 30 OR MORE AND AT LOBBIES ACCESSORY TO A GROUP A OCCUPANCIES. 2.ACCOUSTICAL TILE CEILING FRAMING SYSTEM PER ESR-1222(LARR #25764) OR EQUAL.

MAIN RUNNER

SEE NOTE #2

TYPICAL SUSPENDED CEILING PANEL AND TEE GRID BRACING DETAIL

TYPICAL AT DIAGONAL BRACING POINTS, MINIMUM (2) PER

CEILING, SPLAY 12GA. WIRE IN (4) DIRECTIONS AND PROVIDE

WIRE CONNECTION DETAILS

YPICAL

2" MAX. FROM SPLAY WIRE

CROSS RUNNER SEE NOTE #2

TO VERTICAL STRUT

(4) TIGHT TURNS WITHIN 1 1/2" FROM ENDS. FOR CONNECTION

ABOVE SEE TYPICAL SUSPENDED CEILING HANGER AND SWAY

CELG101

SHEET SCALE 1" = 1'-0" PROJECT MANAGER MH DESIGNER JN DRAWN BY : FS **REVIEWED BY** 1st DEPT. SUBMITTAL X/X/2016 **ISSUED FOR CONST.** JOB NUMBER 16-S003 CAD FILE NAME S0.81

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- THE SLAB INCLUDING BUT NO SUBMIT TO THE STRUCTURA

CESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THROUGH
OT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER AND TELEPHONE.
AL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWINGS

AND LARR 25563 w/(2)4"x6" PACO COLUMNS AT EACH END. INDICATES MINIMUM LENGTH OF SHEAR WALL

RDIN C00 CHECK PLAN BUILDING 2ND

MAR
J1
J2
J3
<u>Notes:</u> Floor

TYPICAL JOIST SCHEDULE		
CEMCO TYPE OR EQUAL	MAXIMUM SPAN	
1000S200-68 @ 24"o.c.		
(2)1000S200-54 @ 24"o.c.		
(2)1000S200-68 @ 24"o.c.		
T SHALL BE BY "CEMCO" COMPLYING	WITH ICC - ESR3016.	

W I A F 2850 R 949 29 6111 BC 925 46	LLIANH RCHIT EDHILL AVENUE SL 50 0607 www.wh OLLINGER CANYON ROA 53 1700	EZ JITE 20 archite D SUIT	CTS OO SANTA ANA, ects.com fax TE 495 SAN RAMON fax	ALC INC 949 250 19 1, CA 94583-5 925 463 1	H 543 529 186 725
	Not Start	NED NED NO.	5285 TURAL FORMUT	WEED A	
E	nglek structura www.eng	L ENG	3621 Suite Santo 9270 714.: k.com 714.:	Harbor Boule 125 1 Ana, CA 4 557.8551 557.8551	vard T F
SOUTH COAST SPEEDWASH AT THE AUTOBAHN	2402 BRISTOL ST. SANTA ANA, CA 92704			BRISTOL SPEEDWASH, INC.	10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064
 2014 WILLIAN ITS COI IN THES CHANGE ARE THE THE WRI ARCHIT THESE I WILLIAN DO 	4 WILLIAM HEZ M HEZMALHALCH AF MMON LAW COPYR SE PLANS. THESE P D, OR COPIED IN ANY Y TO BE ASSIGNED TO TTEN PERMISSION AN TECTS, INC. IN THE PLANS BY A THIRD F M HEZMALHALCH NOT	MAL CHITE IGHT LANS FORM A THIF ID CON EVEN PARTY I AF	HALCH ARCH ECTS, INC. EXPR AND OTHER PR ARE NOT TO BI OR MANNER WH OR MANNER WH OR MANNER WH OR MANNER WH OR MANNER WH SENT OF WILLIAN T OF UNAUTHO T OF UNAUTHO T OF UNAUTHO T OF UNAUTHO SCALE SIONS	HITECTS, ESSLY RESI OPERTY RI E REPRODL HATSOEVER, T FIRST OBT/ M HEZMALL RIZED REU RTY SHALL I NC. HARML PLA	INC. ERVES GHTS JCED, NOR AINING HALCH SE OF HOLD LESS. ANS
NO : 1	DATE 05/18/17 07/14/17	2ND 3RD	DESCRI PLAN CHECK SL PLAN CHECK SL	PTION IBMITTAL IBMITTAL	
(LE	CARWAS VEL 2 F	SH R/	BUILE Aming)ing Pla	N
SHEE	T SCALE : ECT MANAGER	:		1/8"	= 1'-0" MH
DRAW REVIE	/N BY : WED BY : PTSLIRMITTA	J ·		VM/	FS
JOB N CAD F	D FOR CONST. UMBER ILE NAME	· · ·		1	6-S003
				_	

2ND BUILDING PLAN CHECK COORDINATION 05.18.2017

- 4. * INDICATES BEAM WITH PRETENSIONED BOLTS WITH CLASS A FAYING SURFACE CONNECTION ON BOTH ENDS.
- 5. INDICATES BRACED BEAM FLANGE CONNECTION, SEE DETAIL 1/S0.52.

FLOOR JOIST SHALL BE BY "CEMCO" COMPLYING WITH ICC - ESR3016.

SOUTH COAST SPEEDWASH AT THE AUTOBAHN	2402 BRISTOL ST. SANTA ANA, CA 92704		BRISTOL SPEEDWASH, INC. 10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064
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COORDINATION 05.18.2017 CHECK PLAN BUILDING 2ND

Englekirk Suite 125 Santa Ana, (

STRUCTURAL ENGINEERS 92704

www.englekirk.com 714.557.8551 F

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William ezmalhalch ARCHITECTS INC.

2850 REDHILL AVENUE SUITE 200 SANTA ANA, CA 92705-5543 949 250 0607 www.wharchitects.com fax 949 250 1529

6111 BOLLINGER CANYON ROAD SUITE 495 SAN RAMON, CA 94583-5186

925 463 1700

fax 925 463 1725

3621 Harbor Boulevard

Santa Ana, CA

714.557.8551 **T**

- 4. APPLY ADDITIONAL SPRINKLER MAINS AND SWAY BRACE LOADS PER SPRINKLER DRAWINGS.
- 6. APPLY 38 PLF DEAD LOAD ON BOTTOM CHORD FOR CEILING LOAD. TOTAL LOAD SHOWN ON NOTE 1
- 7. ALL TRUSSES SHALL BE DESIGNED FOR A POINT LOAD OF 500# HUNG FROM THE BOTTOM CHORD FOR

2. APPLY SEISMIC LOAD AT C.M.U. WALL CONNECTION PER DETAILS 1/S7.11 AND 2/S7.11.

<u>WIND LOAD</u>
1. APPLY WIND LOAD DOWNWARD PER PLAN AS INDICATED BY ★

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E	STRUCTURAL ENG	3621 Harbor Boulevard Suite 125 Santa Ana, CA 92704 714.557.8551 T rk.com 714.557.8551 F
SOUTH COAST SPEEDWASH AT THE AUTOBAHN	2402 BRISTOL ST. SANTA ANA, CA 92704	BRISTOL SPEEDWASH, INC. 10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064
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RDINATION 05.18.2017 C00 CHECK PLAN BUILDING 2ND

S1.13A

PLAN NOTES:

- ELEVATION TOP OF CONCRETE SLAB SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS, UNLESS NOTED OTHERWISE THUS (±0'-0")
 SLAB ON GRADE SHALL BE 5" THICK w/ #5@16" EACH WAY OVER PREPARED SUBGRADE PER GEOTECHNICAL'S
- RECOMMENDATION. 5" THICK MINIMUM AT THE DRAIN. SLAB THICKNESS VARIES PER SLOPE TO DRAIN PER ARCHITECTURAL DRAWINGS.
- 3. ALL FOOTINGS SHALL BE CENTERED UNDER WALLS OR COLUMNS, UNLESS NOTED OTHERWISE.
- 4. FOR GENERAL NOTES SEE S0 SERIES SHEETS.
- FOR TYPICAL DETAILS SEE S0 SERIES SHEETS. DETAILS AND SCHEDULES INDICATED AS 'TYPICAL' MAY NOT BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
- 6. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
- 7. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF WORK.
- 8. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THROUGH THE SLAB INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER AND TELEPHONE. SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWINGS.

INDICATE CONCRETE FOOTING MARK, SEE TYPICAL CONCRETE FOOTING SCHDULE ON S2.11.

INDICATES ELEVATION TOP OF FOOTING. ALL TOP OF FOOTINGS SHALL BE -1'-6" BELOW LOWEST ADJACENT GRADE OR TOP OF CONCRETE SLAB ON GRADE, U.N.O.

INDICATES SLAB ELEVATION DROP, SEE PLAN.

3. (±0'-0") INDICATES TOP OF CONCRETE SLAB ELEVATION FROM LEVEL DATUM.

INDICATES SIDE OF SHEAR WALL PLYWOOD TO BE NAILED.

SW INDICATES WOOD SHEAR WALL MARK PER SCHEDULE 1/S5.11

- INDICATES MINIMUM LENGTH OF SHEAR WALL

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SOUTH COAST SPEEDWASH AT THE AUTOBAHN	2402 BRISTOL ST. SANTA ANA, CA 92704				10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064
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2ND BUILDING PLAN CHECK COORDINATION 05.18.2017

16-S003

S1.21

JOB NUMBER

NOTES:

1. FOR GENERAL NOTES AND TYPICAL DETAILS, SEE S0 SERIES SHEETS.

2. VERIFY ALL DIMENSIONS BEFORE START OF WORK.

ROOF SHEATHING TO BE 3/4" CDX PLYWOOD WITH 10d NAILS @ 4:6:12, UNLESS NOTED OTHERWISE. BLOCK ALL EDGES (ALLOWABLE VALUE = XXX PLF)

4. SPLICE ALL DOUBLE PLATES PER DETAIL -/-. UNLESS NOTED OTHERWISE.

5. ALL NAILS SHALL BE COMMON NAILS.

6. ALL HARDWARE BY SIMPSON OR APPROVED EQUAL.

7. SHEATH ALL EXTERIOR WALLS WITH X" CDX PLYWOOD, UNLESS NOTED OTHERWISE. PLYWOOD NAILING SHALL BE 8d @ X"o.c. AT ALL EDGES AND 8d @ X"o.c. AT ALL INTERMEDIATE SUPPORTS MINIMUM.

8. NO PENETRATIONS ARE ALLOWED THROUGH SHEAR WALLS UNLESS SPECIFICALLY DETAILED ON THESE PLANS.

GENERAL NOTE FOR ALL STRUCTURAL FRAMING PLANS "FRAMING CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES, PIPE OR CONDUIT OR MECHANICAL VENT RISERS.

10. PROVIDE HEADER PER TYPICAL HEADER SCHEDULE ABOVE OPENINGS IN BEARING WALLS.

PLAN SYMBOLS:

<u>. </u>		
1.	J#	INDICATES JOIST MARK PER JOIST SCHEDULE ON THIS SHEET.
2.	SMF	INDICATES SEISMIC MOMENT FRAME MARK, SEE REFERENCE FRAME ELEVATION FOR COLUMNAND BEAM SIZES AND BASE PLATE INFORMATION. SEE DETAIL 3/S4.22 FOR LATERAL BRACING OF SMF w/ W16x BEAMS.
3.	↔	INDICATES L4x4x1/2 BRACE PER 10/S0.53

	JOIST SCHEDULE				
MARK	JOIST SIZE AND SPACING	REMARKS			
J1	24" RED-W @ 32"o.c.				
J2	(2)24" RED-W				
NOTES:					

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STRAP SCHEDULE					
MARK	SIMPSON STRAP	REMARKS			
ST1	CMST16 x 4'-0"				
NOTES:	NOTES:				

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E	structural engi www.englekirk	3621 Harbor Boulevard Suite 125 Santa Ana, CA 92704 714.557.8551 T .com 714.557.8551 F	
SOUTH COAST SPEEDWASH AT THE AUTOBAHN	2402 BRISTOL ST. SANTA ANA, CA 92704	BRISTOL SPEEDWASH, INC. 10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064	
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PLAN NOTES:	PLAN SYMBOLS:
 ELEVATION TOP OF CONCRETE SLAB SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS, UNLESS NOTED OTHERWISE THUS	1. F INDIC. SEE T
 SLAB ON GRADE SHALL BE 5" THICK w/ #5@16" EACH WAY OVER PREPARED SUBGRADE PER GEOTECHNICAL'S RECOMMENDATION. 5" THICK MINIMUM AT THE DRAIN. SLAB THICKNESS VARIES PER SLOPE TO DRAIN PER ARCHITECTURAL DRAWINGS. 	INDIC. FOOT GRAD
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7. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF WORK.	6. SW INDIC. 5'-0"
8. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THROUGH THE SLAB INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER AND TELEPHONE. SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWING	GS

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SOUTH COAST SPEEDWASH AT THE AUTOBAHN	2402 BRISTOL ST. SANTA ANA, CA 92704	BRISTOL SPEEDWASH, INC. 10801 NATIONAL BLVD., STE 510 LOS ANGELES, CA. 90064
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RDINATION 05.18.2017 2ND BUILDING PLAN CHECK COO

NOTES:

- 1. FOR GENERAL NOTES AND TYPICAL DETAILS, SEE S0 SERIES SHEETS.
- VERIFY ALL DIMENSIONS BEFORE START OF WORK. 2.
- FLOOR SHEATHING TO BE 3/4" CDX PLYWOOD WITH 10d NAILS @ 4:6:12, UNLESS NOTED OTHERWISE. BLOCK ALL EDGES (ALLOWABLE VALUE = XXX PLF).
- ROOF SHEATHING TO BE 3/4" CDX PLYWOOD WITH 10d NAILS @ 4:6:12, UNLESS NOTED 4. OTHERWISE. BLOCK ALL EDGES (ALLOWABLE VALUE = XXX PLF).
- SPLICE ALL DOUBLE PLATES PER DETAIL -/-. UNLESS NOTED OTHERWISE. 5.
- ALL NAILS SHALL BE COMMON NAILS. 6.
- 7. ALL HARDWARE BY SIMPSON OR APPROVED EQUAL.
- SHEATH ALL EXTERIOR WALLS WITH X" CDX PLYWOOD, UNLESS NOTED OTHERWISE. PLYWOOD NAILING SHALL BE 8d @ X"o.c. AT ALL EDGES AND 8d @ X"o.c. AT ALL INTERMEDIATE SUPPORTS MINIMUM.
- NO PENETRATIONS ARE ALLOWED THROUGH SHEAR WALLS UNLESS SPECIFICALLY DETAILED ON 9 THESE PLANS.
- GENERAL NOTE FOR ALL STRUCTURAL FRAMING PLANS "FRAMING CONTRACTOR SHALL 10. COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES, PIPE OR CONDUIT OR MECHANICAL VENT RISERS.
- 11. PROVIDE HEADER PER TYPICAL HEADER SCHEDULE ABOVE OPENINGS IN BEARING WALLS.

PLAN SYMBOLS:

- 1. INDICATES WALL ABOVE.
- 2. = = = INDICATES WALLS BELOW.
- 3. _____ INDICATES FLOOR/ROOF JOIST MARK, SEE SCHEDULE ON PLAN.
- 4. _____ INDICATES WOOD BEAM MARK, SEE SCHEDULE ON PLAN.
- 5. **GLB615** INDICATES GLU-LAM BEAM MARK, SEE SCHEDULE ON PLAN.
- 6. ——— INDICATES SIDE OF SHEAR WALL PLYWOOD TO BE NAILED.
- 7. ———— INDICATES SHEAR WALL BELOW.
- INDICATES WOOD SHEAR WALL MARK PER SCHEDULE 1/S5.11. SW INDICATES MINIMUM LENGTH OF SHEAR WALL
- D1 → INDICATES DECK SPAN DIRECTION AND TYPE PER SCHEDULE 9. -----ON 1/S0.61.

JOIST SCHEDULE			
MARK	JOIST SIZE AND SPACING	REMARKS	
J1	14" RED-L @ 16"o.c.		
J2	14" RED-L @ 24"o.c.		
J3	16" RED-L @ 32"o.c.		
J4	22" RED-L @ 16"o.c.		
J5	24" RED-L @ 32"o.c.		
J6	24" RED-W @ 16"o.c.		
NOTES:			
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WOOD BEAM SCHEDULE					
MARK	BEAM SIZE	REMARKS			
WB1	6x12 D.F.#1				
WB2	6x14 D.F.#1				
WB3	6x14 D.F.#SS				
WB4	8x12 #SS				
WB5	8x14 #SS				
WB6	8x14 D.F.#1				
GLB615	6 3/4 x 15 GLULAM BEAM				
NOTES:					

STRAP SCHEDULE							
MARK	SIMPSON STRAP	REMARKS					
ST1	CMST16 x 4'-0"						
ST2	CMST16 x PER PLAN						
NOTES: 1. PROVIDE 2x FRAMING OR BLOCKING w/E.N. AS NEEDED AT STRAP U.N.O.							

— 0 ∞ **—** 05 **RDINATION** PLAN CHECK COO BUILDING 2ND

PLAN NOTES:

- ELEVATION TOP OF CONCRETE SLAB SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS, UNLESS NOTED OTHERWISE THUS ⊕ (±0'-0")
- 2. SLAB ON GRADE SHALL BE 5" THICK w/ #5@16" EACH WAY OVER PREPARED SUBGRADE PER GEOTECHNICAL'S RECOMMENDATION. 5" THICK MINIMUM AT THE DRAIN. SLAB THICKNESS VARIES PER SLOPE TO DRAIN PER ARCHITECTURAL DRAWINGS.
- 3. ALL FOOTINGS SHALL BE CENTERED UNDER WALLS OR COLUMNS, UNLESS NOTED OTHERWISE.
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- 5. FOR TYPICAL DETAILS SEE S0 SERIES SHEETS. DETAILS AND SCHEDULES INDICATED AS 'TYPICAL' MAY NOT BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMINE WHERE EACH TYPICAL DETAIL OR SCHEDULE APPLIES BEFORE PROCEEDING WITH WORK.
- 6. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
- 7. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF WORK.

8. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THROUGH THE SLAB INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER AND TELEPHONE. SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWINGS.

PLAN SYMBOLS: (±0'-0") 4. D1 $\times\!\!\times\!\!\times\!\!\times\!\!\times\!\!\times\!\!\times\!\!\times$ 5. 6.

FOUNDATION PLAN 1/4" = 1'-0"

INDICATE CONCRETE FOOTING MARK, SEE TYPICAL CONCRETE FOOTING SCHDULE ON S2.11 INDICATES ELEVATION TOP OF FOOTING. ALL TOP OF FOOTINGS SHALL BE -1'-6" BELOW LOWEST ADJACENT GRADE OR TOP OF CONCRETE SLAB ON GRADE, U.N.O. INDICATES SLAB ELEVATION DROP, SEE PLAN INDICATES TOP OF CONCRETE SLAB ELEVATION FROM LEVEL DATUM

INDICATES DIRECTION OF STEEL DECKING AND SLAB CONSTRUCTION. SEE SCHEDULE ON 1/S0.61.

INDICATES 8" BEARING C.M.U. WALL.

INDICATES 8" NON-BEARING C.M.U. WALL.

 ∞ **—** 02 **RDINATION** C00 CHECK PLAN BUILDING 2ND

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PLAN NOTES:

- 1. ELEVATION TOP OF CONCRETE SLAB SHALL BE COORDINATED WITH ARCHITECTURAL DRAWIN OTHERWISE THUS \bigoplus (±0'-0")
- 2. SLAB ON GRADE SHALL BE 5" THICK w/ #5@16" EACH WAY OVER PREPARED SUBGRADE PER G RECOMMENDATION. 5" THICK MINIMUM AT THE DRAIN. SLAB THICKNESS VARIES PER SLOPE T ARCHITECTURAL DRAWINGS.
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- 4. FOR GENERAL NOTES SEE S0 SERIES SHEETS.
- 5. FOR TYPICAL DETAILS SEE S0 SERIES SHEETS. DETAILS AND SCHEDULES INDICATED AS 'TYPI BE SPECIFICALLY REFERENCED ON DRAWINGS. DETERMINE WHERE EACH TYPICAL DETAIL OF APPLIES BEFORE PROCEEDING WITH WORK.
- 6. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSI OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
- 7. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF WORK.
- 8. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND LOCATING ALL OPENINGS THE SLAB INCLUDING BUT NOT LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, SPRINKLER SUBMIT TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO SUBMITTAL OF REINFORCING STEEL SHOP DRAWINGS.

ROOF FRAMING PLAN 1/4" = 1'-0" B

	PLAN SYMBOLS:	
INGS, UNLESS NOTED	1.	 INDICATE CONCRETE FOOTING MARK, SEE TYPICAL CONCRETE FOOTING SCHDULE ON S2.11
GEOTECHNICAL'S TO DRAIN PER		 INDICATES ELEVATION TOP OF FOOTING. ALL TOP OF FOOTINGS SHALL BE -1'-6" BELOW LOWEST ADJACENT GRADE OR TOP OF CONCRETE SLAB ON GRADE, U.N.O.
SE.	2. 7777777	INDICATES SLAB ELEVATION DROP, SEE PLAN
PICAL' MAY NOT DR SCHEDULE	3. (±0'-0")	INDICATES TOP OF CONCRETE SLAB ELEVATION FROM LEVEL DATUM
S, OPENINGS,	4. D1	INDICATES DIRECTION OF STEEL DECKING AND SLAB CONSTRUCTION. SEE SCHEDULE ON 1/S0.61.
IONS, LOCATIONS	5.	INDICATES 8" BEARING C.M.U. WALL.
	6.	INDICATES 8" NON-BEARING C.M.U. WALL.
S THROUGH R AND TELEPHONE		

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S1.50

			TY	PICAL CONC	RETE FOOT	ING SCHED	ULE	
MARK	SIZE			TOP REINFORCING		BOTTOM REINFORCING		
	WIDTH	LENGTH	THICKNESS	LONG REINFORCING	SHORT REINFORCING	LONG REINFORCING	SHORT REINFORCING	REMARKS
NON-FRA	AME SPRE	AD FOOT	INGS	•				
F3	3'-0"	3'-0"	2'-0"	-	-	(6)#5	(6)#5 🖄	
F4	4'-0"	4'-0"	2'-0"	-	-	(5)#6	(5)#6	
F6	6'-0"	6'-0"	2'-0"	-	-	(6)#7	(6)#7	
FRAME S	SPREAD F	OOTINGS						
FF5	5'-0"	5'-0"	3'-0"	(5)#6	(5)#6	(7)#7	(7)#7	
FF5A	5'-0"	10'-0"	3'-0"	(5)#6	(9)#6	(7)#7	(10)#8	
FF7	7'-0"	7'-0"	3'-0"	(7)#6	(7)#6	(10)#7	(10)#7 🛆	
WALL FC	DOTINGS							
WF2	2'-0"	CONT.	24"	(2)#5		(3)#7	#6@10	
WF2.5	2'-6"	CONT.	24"	(2)#5	-	(4)#7	#6@10	
WF3	3'-0"	CONT.	24"	-	-	(4)#6	#6@10	

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S2.11

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S2.21

FULL HEIGHT STIFFENER PL3/8 EACH SIDE -

FOR COLUMN SIZE SEE SCHEDULE OR PLAN

FOR COLUMN SIZE SEE SCHEDULE OR PLAN

FULL HEIGHT STIFFENER PL3/8 EACH SIDE -

FOR COLUMN SIZE SEE SCHEDULE OR PLAN

FOR COLUMN SIZE SEE SCHEDULE OR PLAN

FULL HEIGHT STIFFENER PL3/8 EACH SIDE -

3/4"ø A325-N BOLT (4 TOTAL)

NOTES:

TOP & BOTTOM PLATES SHALL MATCH BEAM FLANGE THICKNESS AND SHALL BE 1/2" THICK MINIMUM (PLATE SHALL MATCH SAME GRADE OF STEEL AS BEAM)

PROVIDE PLATE 1/2" MINIMUM, SEE TYPICAL **BEAM CONNECTION** SCHEDULE

TOP & BOTTOM PLATES SHALL MATCH BEAM FLANGE THICKNESS AND SHALL BE 1/2" THICK MINIMUM (PLATE SHALL MATCH SAME GRADE OF STEEL AS BEAM)

TYP 5/16

FOR SHEAR PLATE, WELDS AND FASTENERS, SEE TYPICAL BEAM CONNECTION SCHEDULE —

SHEET SCALE :	As indicated
PROJECT MANAGER :	МН
DESIGNER :	JN
DRAWN BY :	FS
REVIEWED BY :	
1st DEPT. SUBMITTAL :	X/X/2016
ISSUED FOR CONST. :	
JOB NUMBER	16-S003
CAD FILE NAME	
	S3.11

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2ND BUILDING PLAN CHECK COORDINATION 05.18.2017

16-S003 S4.21

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REDUCED BEAM					
MARK	T	OP & B			
	"a"	"b"			
M1	7.0	22.0			
M2	5.25	9.5			
M3	4.5	14.(
M4	8.0	18.0			
M5	5.0	11.(

TSG502A MOD.

	PROVIDE DECK ATT TO BEAMS PER TYF SCHEDULE U.N.O. –			
"O"	 PL TO MATCH BEAN WEB THICKNESS AN GRADE (3/8" MIN.) - 			
TEEL BEAM VHERE OCCURS	STEEL BEAM 1 L PER PLAN 1			
FRAME BEAM SIZE	SIZE & NUMBER OF BOLTS			
W14x	(4) 1"ø A490-N			
W21x	(5) 1"ø A490-N			
W24x	(6) 1"ø A490-N			
W30x	(8) 1"ø A490-N			
NOTE: ALL BOLTS TO BE PRETENSIONED WITH CLASS A FAYING SURFACE.				

TSG511A MOD.

TSG502

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SHEAR WALL SCHEDULE						
MATERIAL	NAILING (EDGE:FIELD)	UPPER FLOOR SILL PL NAILING	BLOCKING TO DOUBLE PL	ANCHOR BOLT SPACING	REMARKS	
15/32" CDX 4-PLY 5-PLY PLYWOOD 32/16	10d @ 6:12	16d @ 6"o.c.	SIMPSON A35 @ 16"o.c. ALT. SIMPSON LTP4 @ 24"o.c.	5/8"ø @ 48"o.c.	CAPACITY:310 PLF	
5/32" STRUCT-I 4-PLY 5-PLY PLYWOOD 32/16	10d @ 6:12	16d @ 4"o.c.	SIMPSON A35 @ 16"o.c. ALT. SIMPSON LTP4 @ 22"o.c.	5/8"ø @ 32"o.c.	CAPACITY:340 PLF	
5/32" STRUCT-I 4-PLY 5-PLY PLYWOOD 32/16	10d @ 4:12	16d @ 3 1/2"o.c.	SIMPSON A35 @ 10"o.c. ALT. SIMPSON LTP4 @ 16"o.c.	5/8"ø @ 32"o.c.	CAPACITY:510 PLF	
5/32" STRUCT-I 4-PLY 5-PLY PLYWOOD 32/16	10d @ 3:12	1/2"ø LAG SCREW @ 13"o.c. *	SIMPSON A35 @ 8"o.c. ALT. SIMPSON LTP4 @ 12"o.c.	5/8"ø @ 24"o.c.	CAPACITY:665 PLF PRE-DRILL FOR LAG SCREW	
5/32" STRUCT-I 4-PLY 5-PLY PLYWOOD 32/16	10d @ 2:12	1/2"ø LAG SCREW @ 9"o.c. *	SIMPSON A35 @ 6"o.c. ALT. SIMPSON LTP4 @ 9"o.c.	5/8"ø @ 18"o.c.	CAPACITY:870 PLF PRE-DRILL FOR LAG SCREW	
5/32" STRUCT-I 4-PLY 5-PLY PLYWOOD 32/16	10d @ 4:12	1/2"ø LAG SCREW @ 8"o.c. *	SIMPSON A35 @ 5"o.c. ALT. SIMPSON LTP4 @ 8"o.c.	5/8"ø @ 16"o.c.	CAPACITY:1020 PLF PRE-DRILL FOR LAG SCREW	
5/32" STRUCT-I 4-PLY 5-PLY PLYWOOD 32/16	10d @ 3:12	1/2"ø LAG SCREW @ 6"o.c. *	SIMPSON A35 @ 8"o.c. EA. SIDE ALT. SIMPSON LTP4 @ 12"o.c. EA. SIDE	5/8"ø @ 12"o.c.	CAPACITY:1330 PLF PRE-DRILL FOR LAG SCREW	
5/32" STRUCT-I 4-PLY 5-PLY PLYWOOD 32/16	10d @ 2:12	1/2"ø LAG SCREW @ 5"o.c. *	SIMPSON A35 @ 6"o.c. EA. SIDE ALT. SIMPSON LTP4 @ 9"o.c. EA. SIDE	5/8"ø @ 9"o.c.	CAPACITY:1740 PLF PRE-DRILL FOR LAG SCREW	

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TYPICAL ALTERNATE WASHER PLATE DETAIL

2. SIMPSON BP-3, BPS-3 OR BPS-6 MAY BE USED AT CONTRACTORS OPTION. 3. ANCHOR BOLT SHALL BE PLACED A MINIMUM OF 2x BOLT DIAMETER FROM SHEATHING EDGE OF SILL PLATE.

NOTES: 1. AT CONTRACTOR'S OPTION, DIAGONAL SLOTS IN PLATE CAN BE USED. DIAGONAL SLOT SHALL BE BOLT DIAMETER + 3/16" WIDE x 1 3/4" LONG MAX. CENTERED ON PLATE. USE STANDARD WASHER BETWEEN SLOTTED PLATE AND NUT.

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S5.12

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SUREBOARD SHEAR WALL SCHEDULE								
MARK	MATERIAL	MIN. GAUGE STUDS/TRACK	BOTTOM TRACK TO CONCRETE	BOTTOM TRACK TO TOP TRACK	RIM TRACK TO TOP TRACK	ALLOWABLE CAPACITY		
SB1	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @6"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	20GA.	HILTI DN32 P8 @24"o.c. POWDER	#12 S.M.S. @6"o.c.	#10 S.M.S. @ 12"o.c.	434 PLF		
SB2	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @4"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	20GA.	HIL DRDWB12 P8 @24"o.c. POWDER	#12 S.M.S. @4"o.c.	#10 S.M.S. @ 6"o.c.	618 PLF		
SB3	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @3"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	20GA.	HIL中RDKB之P8 @24"o.c. POWDER	#12 S.M.S. @3"o.c.	#10 S.M.S. @ 6"o.c.	692 PLF		
SB4	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @2"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	20GA.	HILDRDWB2 P8 @24"o.c. POWDER	#12 S.M.S. @3"o.c.	#10 S.M.S. @ 6"o.c.	766 PLF		
SB5	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @6"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	18GA.	HIL DRDWB2 P8 @24"o.c. POWDER	#12 S.M.S. @4"o.c.	#10 S.M.S. @ 12"o.c.	562 PLF		
SB6	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @4"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	18GA.	HIL PRDKB2 P8 @24"o.c. POWDER	#12 S.M.S. @3"o.c.	#10 S.M.S. @ 6"o.c.	770 PLF		
SB7	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @3"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	18GA.	HIL DRDWBX P8 @24"o.c. POWDER	#12 S.M.S. @3"o.c.	#10 S.M.S. @ 6"o.c.	858 PLF		
SB8	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @2"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	18GA.	HIL DRDWB2 P8 @24"o.c. POWDER	(2) ROWS #12 S.M.S. @4"o.c.	#10 S.M.S. @ 6"o.c.	944 PLF		
SB9	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @3"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	16GA.	HIL DRDWE92 P8 @24"o.c. POWDER	(2) ROWS #12 S.M.S. @4"o.c.	#10 S.M.S. @ 4"o.c.	1158 PLF		
SB10	SUREBOARD FULLY BLOCKED, w/#10 S.M.S. @2"o.c. AT PANEL EDGES AND @12"o.c. AT FIELD	16GA.	HILDRDWB21 P8 @24"o.c. POWDER	(2) ROWS #12 S.M.S. @4"o.c.	#10 S.M.S. @ 4"o.c.	1384 PLF		
	DRIVEN							

SECTION A-A

1. INSTALLATION OF SUREBOARD SHEAR WALLS MUST BE IN ACCORDANCE WITH ICBO IAPMO-ER-126 AND THE MANUFACTURER'S

2. ALL PANEL EDGES MUST BE BLOCKED. FRAMING MEMBERS SUCH AS STUDS, TOP AND BOTTOM TRACKS ARE CONSIDERED BLOCKING; PANEL EDGES THAT DO NOT FALL ON FRAMING MEMBERS MUST BE BLOCKED WITH STUDS, TRACK, OR CONTINUOUS

FLAT STRAP MATERIAL WITH MINIMUM THICKNESS AND STEEL PROPERTIES AS THE STUD FRAMING MEMBERS PER THE TABLE. 3. SEE PLAN FOR SHEAR WALL BOUNDARY FRAMING MEMBERS.

4. SEE PLAN FOR SHEAR WALL HOLDOWN ANCHORS.

5. ALL SURE-BOARD STEEL SHEATHING SHALL BE 22GA. 6. PROVIDE STEEL FRAMING PER BEARING WALL SCHEDULE IF GAGE NOTED IN BEARING WALL SCHEDULE IS THICKER THAN STEEL MINIMUM GAGE SHOWN IN SCHEDULE ABOVE.

TYPICAL SUREBOARD SHEAR WALL SCHEDULE

16-S003 S6.11

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- JOIN TOP & BOTTOM TRACK w/

C00 PLAN CHECK BUILDING X/X/2016 16-S003 2ND

S6.12

ISSUED FOR CONST.

JOB NUMBER

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SHEET SCALE : As indicated PROJECT MANAGER MH DESIGNER JN DRAWN BY : FS **REVIEWED BY :** 1st DEPT. SUBMITTAL X/X/2016 ISSUED FOR CONST. JOB NUMBER 16-S003 CAD FILE NAME S7.11

RDINATION PLAN CHECK COO **2ND BUILDING**