GENERAL

- Changes to these contract drawings may be made only by an authorized representative of the engineer or architect. The architect or engineer shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an authorized engresentative.
- numbrizes representative.

 Minissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner

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 2. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to the owner.

 The contractor shall be responsible for means, methods, techniques, sequences, and procedures in order to comply with the contract drawings and specifications. The contractor shall provide adequate shoring and bracing as required for the chosen method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is completed. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the contract drawings shall be reported to the architect/engineer.
- contract grawings shall be reported to the architect/engineer before proceeding with The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions, or modifications. Any work done by the contractor before receiving written approval will be at the contractor's risk.
- The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the architect/engineer before proceeding with the fabrication or construction of any affected
- The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
- details in the drawings shall govern over the structural notes and typical details.

 Typical details and sections shall apply where specific details are not shown.

 Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultants' drawings. Most dimensions and most non-structural elements such as elevations, depressions, spopes, mechanical housekeeping pods, etc. are not shown in the structural drawings. See the Architectural Drawings for dimensions, doors, windows, non-bearing interior and exterior walls, elevations, slopes, stairs, curbs, drains, recesses, depressions, railings, waterproving, finishes, chamfers, kerfs, etc.

- chamfers, kerfs, etc.

 Shop drawings made from reproductions of the drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed.

 Review of shop drawing submittals by the engineer is for general compilance only and is not intended for approval. The shop drawing review shall not relieve the contractor from the responsibility of completing the project according to the contract documents.

 All work shall be done in accordance with OSHA requirements. Potential conflicts between these documents and OSHA requirements shall be brought to the attention of the structural engineer before proceeding with the work.
- Site observations by the engineer and or architect shall not be construed as approval of construction, the procedures, nor special inspection.
- construction, the procedures, nor special inspection.

 14. The terms "Engineer" and "Engineer of Record" (EOR) are meant to refer to an authorized representative of M J Structural Engineers.

BASIS FOR DESIGN

1.	Governing Building Code	International Building Code 2012
2	Risk Category	II
3	Floor Live Loads	
	3.1 Uniformly Distributed Loads	40 psf
4.	Roof Live Load*	20 psf
	*(Not concurrent with Roof Snow Load)	
5.	Roof Snow Load	
	5.1 Ground Snow Load	P/g = 274 psf
	5.2 Flat Roof Snow Load	P/f = 211 psf
	5.3 Snow Exposure Factor	C/e = 1.0
	5.4 Thermal Factor	C/t = 1.1
	5.5 Snow Load Importance Factor	I/Snow = 1.0
6.	Wind Load	
	6.1 Basic Wind Speed (3 Second Gust)	115 mph
	6.2 Wind Exposure	С
	6.3 Internal Pressure Coefficient	± 0.18
7.	Seismic Design Criteria	
	7.1 Mapped Spectral Response Accelerations	
	7.1.1 Short Period Acceleration	S/S = .825 g
	7.1.2 1-Second Acceleration	S/1 = .274 g
	7.2 Site Class (Soil Profile)	В
	7.3 Spectral Response Coefficients	
	7.3.1 Short Period Acceleration	S/DS = .550 g
	7.3.2 1-Second Acceleration	S/D1 = .183 g
	7.4 Seismic Importance Factor	I/Seismic = 1.0
	7.5 Seismic Design Category	D
	7.6 Effective Structural Seismic Weight	w
	7.7 Basic Seismic Force Resisting System	Special Reinforced Concrete ShearWalls
	7.7.1 Response Modification Coefficient	R = 5.0
	7.7.2 System Over-Strength Factor	$\Omega/0 = 2.5$
	7.7.3 Deflection Amplification Factor	C/D = 5.0
	7.7.4 Design Base Shear	V = C/S*W = 0.1100W
	7.8 Analysis Procedure	Equivalent Lateral Force

FOUNDATION

1.	Soils Report by:	IGES
	Dated:	August 11, 2015
2.	Soil Bearing Pressure:	5000psf, on Bedrock
3.	Frost Protection:	42 inches minimum
4.	Lateral Soil Pressure Fluid Equivalent Density:	
	4.1. Active	35 pcf (retaining walls)
	4.2. At Rest	55 pcf (rigid foundation walls)
	4.3. Passive	320 pcf
5.	Coefficient of Friction	0.45
8.	The soils engineer shall review all excavations and fill placement prior to placing concrete.	

EARTHWORK

- Clearing: The entire building area, including 3 feet beyond the building perimeter, shall be scraped to the depth necessary (4" minimum) to remove all vegetation, topsoil, losse/disturbed surficial soils, debris, undocumented fills, and any other deleterious materials.

- undocumented fills, and any other deleterious materials.

 Proof Rolling: The natural undisturbed soil below all footings shall be proof rolled prior to placing concrete to check for the presence of unsuitable fills, soft goots, or other undesirable materials or conclitions. Remove sub-grade materials that are unsuitable and replace with compacted structural fill.

 Compacted Sortcutral Fill: All fill material shall be a well-graded granular material with a maximum size less than 4° and with not more than 10% passing a #200 sieve. It shall be compacted to 55% of the maximum laboratory density as determined by ASTM D 1557. All fill shall be tested. Compacted structural fill shall be plead in lifts not exceeding 8° in uncompacted thickness. Proor slabs thicknesses shall be as indicated in the drawings (at least 4" bitck). The granular fills shall be free-draining fill such as "pea" gravel or three-quarters- to one-inch minus dean gao-graded gravel with not more than 5% passing a #200 sieve and shall be compacted to at least 90% of the maximum laboratory density as determined by ASTM D 1557.
- Consult the project specifications and soils report for further earthwork requirements. The soils engineer shall review all excavations and fill placement prior to placing concrete.

CONCRETE

Materials unless noted otherwise:	
1.1. Normal Weight Aggregates	ASTM C 33
1.2. Light Weight Aggregates	ASTM C 330
 Light Weight Concrete shall not 	exceed 110 pcf (± 3 pcf)
1.3. Fly Ash, Class F Pozzolan	ASTM C618

- ASTM 615 Grade 60 (60 ksi) aries ASTM A706 (60 ksi)
- ing that actual yield strength does not exceed the specified strength ASTM A615 is permitted if mill certifications are submitted short by more than 18000 psi and the ratio of tensile to yield strength is greater that
- ASTM A108
- 1.6. Headed Stud Anchors (HSA)
 1.7. Anchor Boits: See steel and/or wood section(s) of general notes.
 1.8. Admixtures: Air-entraining admixtures shall comply with ASTM C 260 (when used). Calcium chloride shall not be added to the concrete mix. Unreinforced concrete slabs on grade may have calcium chloride not exceeding one percent.
 1.9. Cement complying with ASTM C-150 shall be used for all concrete. See table of concrete properties for cement type.
 1.10. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.

CONCRETE USE	EXPOSURE CLASSIFICATIONS			NS		(MIN) fc (psi)	(MAX) w/	(MAX) FLAYASH	(MAX) AIR CONTENT	(MAX) AGG SIZE	(MAX) SLUMP
	1				PERCENT	PERCENT					
Interior Footings	F0	S0	20	a	I/II	3000	0.50	30	2	1"	5.00"
Exterior Footings	F2	SO	P0	C1	I/II	3000	0.50	30	6	1*	5.00"
Interior Slabs on Grade	F0	SO	P0	8	I/II	3500	0.50	30	2	3/4"	5.00"
Interior Walls	F0	SO	PO	8	I/II	3000	0.50	30	2	3/4"	5.00*
Exterior Walls above Grade	F1	50	PO	а	I/II	4000	0.45	30	5	3/4"	5.00"
Exterior Walls below Grade	F2	50	P0	C1	I/II	4000	0.45	30	6	3/4"	5.00"
Interior Columns	FO	S0	PO	a	I/II	4000	0.50	30	2	3/4*	5.00*
Exterior Columns	F1	50	P0	C1	1/11	4000	0.45	30	5	3/4"	5.00*
Interior Piers	FO	SO	PO	α	I/II	3000	0.50	30	2	3/4"	5.00"
Exterior Piers	F2	SO	PO	CI	1/11	3000	0.45	30	6	3/4"	5.00*
Joists, Beams and Suspended Slabs (Int.)	F0	50	P0	æ	I/II	4500	0.50	30	2	3/4"	5.00"
Joists, Beams and Suspended Slabs (Ext.)	F1	50	PO	C1	I/II	4500	0.45	30	5	3/4"	5.00"

- Reinforce composite slabs over metal deck with 6" x 6" W2.1/W2.1 welded wire reinforcement minimum, unless noted otherwise. Welded wire reinforcement anal be glaced 1" to 11/2" below the top of the slab. Welsde wire reinforcement may be substituted with "Fibermesh Fibers" menufactured by Propus Concrete Systems Conposition, as approved by IXC ER-4811. The rate of fiber application shall be based on IXC ER-4811. Other substitutions may be permitted if an IXC Evaluation report is submitted to and approved by the Structural Engineer.

 The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.

 4.1. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.
- R-day specified compressive strength.

Suspended slabs shall be re-supported after form removal until concrete re	eaches its 28-di
cement shall have the following concrete cover:	Gear Cove
Cast-in-place Concrete	
 Cast against and permanently exposed to earth 	3*
 Formed concrete exposed to earth or weather: 	
#6 thru #18 bars	2*
#5 and smaller bars	1 1/2"
 Concrete not exposed to weather or in contact with ground: 	
Slabs, Walls, Joists; #11 Bars and Smaller	3/4"
Beams, Columns: Primary Reinforcement, Ties, Stirrups, Spirals	1 1/2"

- Construction Joints and Control Joints: 6.1. All horizontal and vertical construction joints, including between top of footing and foundation walls, shall be intentionally roughened to a util amplitude of approximately 1/4*.
- 6.2. Install construction or control joints in slabs on grade at a spacing not to exceed 30 times the slab thickness in any direction, unless noted otherwise. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by either:
- Saw cut with death of 1/4 the thickness of the slab
- Saw Cit, with depth of 1/4 the thickness of the slab
 Tooled joints with depth of 1/4 the thickness of the slab
 6.3. Construction joints shall not exceed a distance of 125-0" on center in any direction
- 7.1. Use theirs or other support devices recommended by the CRSI to support ber and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously supported at 36" on center maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.

 7.2. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to
- 7.3. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
- 7.3. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
 7.4. No pipes, ducks, sleeves, etc. shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through wails when approved shall be built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings steeped to avoid piping.
 7.5. Reinforcing bars shall not be welded unless specifically shown on drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for DBas or HSAs.
 7.6. Top of concrete columns shall be flush (±1/4°) with bottom of supported cast-in-place members.
- - 8.1. Lap splice lengths shall be detailed to comply with the "Reinforcing Bar Lap Splice Schedule" contained within the contract drawings.
- 8.1. Lap spice lengths shall be detailed to comply with the "Reinforcing Bar Lap Spice Schedule" contained within the contract drawings.

 Do not spice strings and ties. Do not spice vertical bars in relatining value unless specifically shown.
 At shearwall boundary elements and at moment frame beams to columns, lap lengths shall be increased by 25%.
 Splices may be made with mechanical splices capable of 125% tension capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all ACI requirements. Use "Cadweld", "Lenton" Standard Couplers, "Bar-Loof" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
 8.2. At Joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise.

- 8.3. At all discontinuous control or construction slab on grade joints, provide (2) \$4 x 48*.

 8.4. Provide come bars at intersecting wall comers using the same har size and spacing as the horizontal wall reinforcing.

 8.5. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90° standard hook and shall extend to within 4° of the bottom of the footing. Footing dowels (48 bars and smaller) with hooks need not extend more than 20° into footing.
- INDUST, FAURITY DUTTES (NO DOES AND STRINGE) WITH INDUST NEED INC. EXCEPT MORE THAN IN THE STRINGE AND THE FAIR AND THE STRINGE AND THE STRING

STRUCTURAL STEEL

- Codes and Standards: Fabrication and installation shall comply with the latest edition of the following:
 American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings,"
- 1.2. AISC "Code of Standard Practice" excluding sections 3.4, 4.4 and 4.4.
- 1.3. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
- ALSC "Seismic Provisions for Structural Steel Buildings."
 American Welding Society (AWS), Structural Welding Codes D1.1, D1.3, D1.4, and D1.8, except as modified by the "Steel Construction
- 2.1. Wide Flange Sections 2.2. Plate
 - Typical
- ASTM AS72 Grade 50 ness apply for Group 3, 4, and 5 shapes with flange thickness greater than 11/2" and plate 2" and thicker which sisting System (SLRS). Minimum Charpy V-Notch requirements are 20 ft-lbs at 70°F.
- ASTM A53 Grade B Type E/S 2.4. Pipe 2.5. Hollow Structural Shapes
- ASTM A500 Grade B (46 ksi)
- 2.6. Base Plates . Less than 4 inches thick ASTM A36
- Over 4 inches to 6 inches thick
 Other Structural Shapes (M, C, etc)
 Bolted Connections ASTM A572 Grade 42
- 2.9. Anchor Bolts
- All Columns unless noted otherwise: ASTM F1554 Grade 36 with ASTM A563 heavy hex nuts with Grade A hardened washers
- Braced Frame/Moment Frame Columns unless noted otherwise: ASTM F1554 Grade 55 (equiv to A572 Grade 55) ASTM F1554 Grade to A193 Grade B7) with ASTM A563 heavy hex nuts with ASTM F436 minimum 5/16" thick washers.
- Shielded Metal Arc Welding AWS A5.1, low-hydrogen only Low-hydrogen restrictions do not apply when welding sheet steels in accordance with AWS D1.3, including attaching these steels to
- Gas-Metal & Metal-Cored Arc Welding AWS A5.18
 Flux-Cored Arc Welding AWS A5.20
- Flux-Cored Arc Welding AWS A5.20
 E7XT-4 or E7XT-11 electrodes are not permitted. Intermixing of welds made from self-shielded welding electrodes with gas-shielded electrodes is not allowed in seismic critical welds, unless tested in accordance with AWS DLB, armex 8. The Field Erection Contractor is responsible for verifying intermixing of self-shielded and gas-shielded welding will not court, or alternatively, the welding procedure is qualified by testing.
- Use E70 class electrodes only, unless noted otherwise. E60 class electrodes may be used for welding steel floor and roof decks. All
- ASTM C1107 Grade B

 - on-sommit Grout.

 Non-shrink grout shall be prepackaged, non-metallic and non-gase

 Furnish certified independent test data to Structural Engineer.

 Fluid Consistency (flow cone) = 20 to 30 seconds
- . Compressive Strength in 28 days = 7,500 psi
- tructural Detailing
 3.1. Provide full depth web stiffener plates at each side of all beams at all bearing points. Stiffener plates shall be the thickness called out below riless noted otherwise. Stiffener shall be welded on both sides of the plate-to-liange and plate-to-web interfaces. Do not weld into the web-to-flange fillet region of the member.

FLANGE WIDTH	STIFFENER THICKNESS	WELD SIZE
Less than 8 1/4"	1/4"	3/16*
8 1/4" to 12 1/4"	3/8"	1/4"
12 1/4" to 16 1/2"	1/2"	5/16"
16 1/2" to 20 3/4"	5/8*	3/8"

- 3.2. Bolting and Fasteners Ordinary steel-to-steel connections, simple span framing, and beam/girder-to-bearing plates are the standard connection used throughout the design drawings, unless noted otherwise:
- a like A325N holts or tension-controlled holts
- Where a steel-to-steel connection is not shown, provide a standard AISC framed connection of one half the total uniform load capacity of the beam for the span and steel specified.
- tions are shown on the structural design drawings. They join steel-to-steel connections, unless noted otherwise:
- Use A32SN or A32SX boths or tension-controlled boths.
 Pretension these fasteners as required by AISC "Specification for Structural Joints Using ASTM A32S or a A490 bolts."
 Silp Critical connections (SC) are shown on the structural design drawings. They join steel-to-steel connections in Seismic sting Systems (SURS).
- Fasteners and washers shall not be reused. Scrap dirty, rusted, or water-contaminated bolt assemblies.
- 3.3. Wedding
 All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sites are not shown, they shall be £1/15° less than the trinnest of the connected parts for thicknesses 1/4° and larger. Fillet wedds on plates less than 1/4° shall be of the same size as the thinnest of the connected part.
 Field weld symbols indicate welds that may be performed in the field. The general contractor shall coordinate shop and field welds between the fabricator and erection.
- 3.4. Reduced Beam Sections

 Fabrication of the reduced flange sections of beams used in SLRS is restricted to mechanically guided thermal cutting processes.

 Freehand cutting is not permitted.

 Flange cuts shall meet the requirements of AISC 358.

 Repair of gouges, nothers, mill impertedons, shall conform to the requirements of the AISC and AWS provisions.

 3.5. Weld Access Holes and Temporary Attachments

- 3.5. Weld Access Holes and Temporary Attachments

 Fabricate beam copes and weld access holes using the geometry described in AISC 360 Section 31.6.

 Runoff tabs are to be removed unless noted otherwise.

 3.6. Backup Bars: Remove backup bars from all beam bottom flange connections in demand critical welds, unless noted otherwise. Backgouge the root and weld to sound metal. Reweld the gouged area and add a 5/167 reinforcing fillet weld.

 3.7. Protected Zones: No connections, other than those on the design drawings, shall be made within the protected zone of the SLRS as
- dentified in AISC 341. Locate headed studs, welds, miscellaneous metal, etc outside of the protected zone.
- 4.1. Reinforcing Bars: Do not weld rebar except as specifically detailed in the drawings. In such cases, use only AWS standards.
- Do not substitute reinforcing bars for deformed bar anchors, structural bots, or headed stud anchors.

 4.2. Do not weld anchor bots, induding "tack" welds.

 4.3. Headed Stud Anchor welding and Deformed Bar Anchor welding shall conform to the manufacturer's specifications.

POST-INSTALLED ANCHORS

- Follow all ICC Evaluation Report and manufacturers' requirements and recommendations for post-installed anchor installation. Where conflicts may exist, the most stringent requirement applies.
 All holes in hollow, brick, or stone masonry stall be performed in the "orbary-only" mode with the hammer
- - Follow manufacturer and ICC evaluation report requirements for installation temperature of adhesive anchors Adhesive anchors shall not be installed or cured outside of approved temperature ranges.

 - 3.1. Adhesive anchors in concrete shall be
 HIT RE-500 SD by Hilti (ESR-2322) normal weight concrete only
 - SET-XP by Simpson (ESR-2508)
 - PE1000+ by Powers Fasteners (ESR-2583) 1/2* to 7/8* diameter only

 - SET by Simpson (ESR-1772) 3.3. Adhesive anchors in brick or stone masonry shall be
 - HIT HY-20 by Hilti (ESR-4815)
 - CIA-GEL 7000 Epoxy by USP (ESR-1702)
 - Mechanical (Expansion) anchors
 - 4.1. Mechanical anchors in concrete shall be
 - Kwik Bolt TZ by Hiltl (ESR-19)
 - Strong-Bolt by Simpson (ESR 1771)
 Trubolt+ by ITW Redhead (ESR-2427)
 - 4.2. Mechanical anchors in grouted mas

 Kwik Bolt 3 by Hilti (ESR-1385)
- NWIK DOX 3.07 HID (EJNC1950)
 The Contractor may submit, for review and approval, the manufacturer's IOC evaluation report of alternate anchor systems. The alternate method shall provide minimum capacities equal to or greater than those in the above noted anchors. The alternate method shall be approved by the engineer of record prior to the substitution.
- Special Inspection and Testing 6.1. Special inspection shall be performed according to the requirements of the ICC evaluation report, per section 1704.13 of the IBC.
- 6.2. Testing shall be done according to the more stringent requirements of the ICC evaluation report and the As issue brown.

 • Alhesive Anchors in Concrete or Solid Grouted Masonny: 50% of anchors in non-redundant elements on column, brace connections, boundary steel, hold-downs) and 10% of anchors in redundant elements shall be sion tested at the following load(s):
- CABI ROSENTHAL

Lloyd Architects

573 EAST 600 SOUTH SALT LAKE CITY, UT 84102 801/328.3245

6211 ROOSEVELT WAY NE SEATTLE, WA 98115

ISSUE DATA ISSUE DATE: 07/22/2016 ISSUE TYPE: 90% REVIEW SE DRAWN BY: CHECKED BY: MUSE PROJECT #: 16062

DATE 07/22/2016

> REVISIONS --/--/--

SHEET TITLE

GENERAL STRUCTURAL NOTES

SHEET NO.



5673 S Redwood Rd. Salt Lake City, UT 84123 Office: 801-905-1097 mistructrualengineers.com 1.1. Dimension Lumber and Timbers (Sawn Lumber)
 All dimensioned lumber shall comply with USDOC PS20.

Visually graded dimension lumber shall be Douglas Fir-Larch #2 or better.

Visually graded timbers (\$^x x 5^ and larger) shall be Douglas Fir-Larch #1 or better.

Machine stress rated (MSR) lumber shall be 1600f-1.6E or better.

. End jointed lumber may be used interchangeably with solid sawn members of the same species and grade with written approval from the Engine

**Le WIND STRUCTURE PRES SPREATING
* Wood sheathing shall be APA rated sheathing Exposure 1 unless noted otherwise and shall conform to the requirements for its type in USDOC PS1 or USDOC PS2. The penels must be identified by the trademarks of the approving testing and inspection agency.
* Wood sheathing minimum thicknesses, span ratings, and nailing requirements shall be as indicated in the Roof and Floor Sheathing Schedule, unless noted otherw

Wood sheathing shall have the following minimum thicknesses and span ratings, unless noted otherwise

19/32"(40/20)

23/32"(48/24) 15/32"(32/16), 7/16"(24/16)

Nails or other approved fasteners used to connect sheathing to the structure shall be driven such that their head or crown is flush with the surface of the sheathing. Do not overdrive fasteners.

1.3. Prefabricated Wood I-loists

I-loists shall
 All prefabricated wood joists shall be as called out on plan and manufactured by the following:
 BCI: Manufactured by Boise Cascade.

TJI: Manufactured by i-Level (Weverhaeuser)

LPI: Manufactured by LP Building Products (Loc

I-joists of equal design properties as those called for on plan, including depth, stiffness and flange width may be substituted with approval from the Engineer.
 Handle, store and install all wood I-joists per the manufacturer's guidelines.

DO NOT cut or notch flanges.
 Holes cut in the webs of the I-joists shall be per the manufacturer's guidelines.
 Structural Globel Laminated Timber (GLB)
 Structural globel laminated timber shall be manufactured and identified as required in ANSI A190.1 and ASTM D3737.

Glulam beams shall be the following species and combination number:
 Simple-Span Glulam Beams: Douglas-fir 24F-V4 1.8E

Sampler-span squarin beants: Douglas-in: 241-74 1.66
 Continuous-Span and Cantilevered Glulam Beams: Douglas-fir 24F-V8 1.8E
 Hybrid combination glulams with equivalent design properties may also be used with written approval from the Engineer.
 Appearance of members shall be Framing or Industrial appearance.

Camber: unless otherwise noted on the drawings, all stock glulam beams shall be cambered to industry standard 3500'-0" radius.
 Stock beams with zero camber are acceptable where available.

S. Laminated Veneer Lumber (LVL), Laminated Strand Lumber (LSL), and Rim Board
 LVL, LSL and Rim Board shall comply with ASTM D5456.

All LVL shall be a minimum of 13/4" thick have the following minimum properties. U.N.O.:

Fb = 2600 psi; E = 1.9x106 psi; Fv = 285 psi; Ft = 1555 psi; Fdl = 2510 psi; Fc_i_ = 750 psi

Fb = 2600 ps; E = 1.9x10° ps; Fv = 285 ps; Fx = 1555 ps; Fc1 = 2510 ps; Fc1_e = 750 psi

All LSL shall be a minimum of 14" thick and shall have the following minimum properties, U.N.O.:

Fb = 1700 ps; E = 1.3x10° ps; Fv = 400 ps; Ft = 1075 ps; Fc1 = 1400 ps; Fc1_e = 680 psi

All Rim Boards shall be a minimum of 14" thick and shall have the following minimum properties, U.N.O.:

Fb = 1130 ps; E = 0.8x10° ps; Fv = 355 ps; Fc1_e = 1415 ps;
Fc1_e = 1400 ps; Ev = 0.8x10° ps; Fv = 355 ps; Fc1_e = 1415 ps;
Handle, store and install all LVL, LSL, and Rim Boards per the manufacturer's guidelines.
Connect multiple members together per the manufacturer's guidelines and as shown in the details.

Vibere discrepancies exist between the manufacturer's guidelines and as shown in these plans, use the more stringent of 1.6. Nails

All Nails shall conform with the tolerances specified in ASTM F1667, "Standard Specification of Driven Fasteners: Nails, Spikes and

 All nails shall be common nails with the following properties:
 Nail Size Shank Diameter Min. Penetration into Support Member
 6d 0.113* 1.25* 0.113 0.148" 0.148"

0.162* Nails with properties less then those listed above shall not be used without prior written approval from the Engineer.
 Nails shall have round (full) heads. Nails with "T", brad, finish or casing heads are not permitted.

Deformed shank nails shall have either a helical (screw) or an annular (ring) shank.

 Anchor Rolls: ASTM F1554 Grade 36 (or A307 Grade A/C or A36)

Anctor botts: As In F1554 crade 30 (or ASD Grade A/C or A35)
 All anchor botts connecting the still glate to the concrete foundation shall have a PL1/4"x3"x3" washer between the still plate and the nut and have a minimum 7" embedment into concrete.
 Connection Botts: ASTM A3D7 Grade A/C or A36
 All botted connections shall have a standard cut or larger washer on both sides of the connection (between the head and the wood member and between the nut and the wood member).

Bolt holes shall be a minimum of 1/32" to a maximum of 1/16" larger than the bolt diameter. Holes shall be accurately aligned in main members and side plates or side members. Bolts shall not be forcibly driven.

· All bolted connections shall have a standard cut or larger washer on both sides of the connection

n Hardware

Il connection hardware shown shall be supplied by Simpson Strong-Tie Incorporated or USP structural connectors.

2.1. Install all hardware port the manufacturer's guidelines.
2.2. Install all hardware per the manufacturer's guidelines.
2.3. Connection hardware of equal design properties by other manufacturers may be substituted with written approval from the Engineer.

All fasteners in contact with pressure-treated or fire-treated wood shall be hot-dipped zinc-coated galvanized or stainless steel.

All wood in contact with converte, masonny or soil shall be pressure treated or redwood.

General framing and carpentry shall be connected as per "THE MINIMUM NAILING SCHEDULE" unless noted otherwise.

Provide rim board or solid blocking at all joist, rafter, and truss bearing points U.N.O. Where blocking is used, it shall be at least 2" (nominal) thick full depth of joist and shaped to match slope of blocked member. thick full depth of joist and shaped to match slope of blocked member.

6.1. Rim board or blocking between joists shall be nailed to the wood joiste at the top of the wall with one Simpson "A35" framing anchor per each piece of blocking. Fill all holes in the framing anchors with 8d x 11/2" nails (12 nails per A35), unless shown otherwise on the drawings. Provide approved bridging at 8"-0" on enter maximum between joist or rafter end supports where both the top and bottom chord of the member are not braced with sheathing or wall board.

Built-up beams of 2x members shall be connected together as shown in the details.

8.1. Where a built-up beam connection is not shown in the details, built-up beams shall be connected as follows:

• Members 12" or less in depth shall be spiked together with not less than 16d spikes at 12" on center, staggered.

• Members more than 12" shall be connected together with not less than 16d spikes at 12" on center, staggered. Botts shall be placed one-quarter of the depth of the member from the top and bottom of the member.

one-quarter of the depth of the member from the top and bottom or the member.

All bearing and shear walls shall have a minimum of 2 top plates. Splices in top plates shall be made as shown in the top-plate splice schedule.

9.1. Where a top-plate splice is not shown in the details, top plates splices shall be staggered a minimum of 4-0" from the nearest splice in adjoining top plate and spliked together with a minimum of (20) 16d nails between splices unless noted otherwise. Provide a double joist under parallel partitions.

10. Provide a double jobs under plantage partures.
11. Do not cut or notch any wood stud greater than 25% of its width. Do not bore a hole in any wood stud greater in diameter than 40% of its width. Bored holes shall be contered in the stud whenever possible. In no case shall the edge of any bored hole be nearer than 1" to the edge of the stud. Bored holes hall not be located at the same section of stud as a cut or notch.

11.1. Bored holes up to 60% of the stud width are allowed provided that an additional stud is placed adjacent to the stud to be bored, that the bored hole is centered in the stud, and no more than two successive sets of studs are so bored.

PREFABRICATED WOOD TRUSSES

Prefabricated metal plate wood trusses shall be designed, signed, and sealed by a Professional Engineer registered in the same state as the project location. They shall be designed to support the concentrated and uniform loads shown on the plans, unbelanced and sliding snow loads, and the following uniform loads:

Dead Load (Top Chord):

10 psf - Does not occur concurrently with top chord live load. 231 psf

Loads listed above do not include drifting, unbalanced, or sliding snow. Designs shall include an additional 9 psf Dead Load at all overbuild framing locations. A dead load no greater than 8 psf shall be assumed for the design of trusses and attachments for wind uplift.

Coordinate the truss design with mechanical equipment, fire sprinkling systems and hanging walls supported by the trusses. Provided the control of the contr

ted wood trusses shall be limited to the following values:

2.1. Live Load 2.2. Total Load

No stress increase is allowed for snow load

Design, handling, erection, stability, and permanent bracing of metal plate connected wood trusses shall be in accordance with ANSI/TPI-1, National Design Standard for Metal Plated Connected Wood Truss Construction and the Truss Plate Institute publications entitled "Commentary and Recommendations for Handling and Erecting Wood Trusses" and "Commentary and Recommendations for Handling and Erecting Wood

Steel Connector Plates: All steel gusset plates shall be galvanized and shall have a current ICBO approval. Values established by the approved ICBO report must be indicated o

approved ICBO report must be indicated o 6.1. The minimum size for any connector shall be 8 in².

6.2. All steel gusset plates shall be located on the joint as the stresses require and shall provide a minimum bite of 2.5" on all tension

nemues.

6.3. Plates shall be pressed or rolled into member to obtain full penetration without crushing the outer surfaces of wood.

6.4. Al steel plate dimensions shall be increased by 10% above that required by analysis. Duration of load stress increases for steel connector plate design are not allowed.

6.5. Submit a copy of the ICBO report for the connector plate used.

No wane, knots, skips, or other defects shall occur in the plated contact area or scarfed area of web members. Plates shall be centered with one required each side of wood truss.

The truss shall be handled and stored in a manner to prevent moisture from being absorbed by the wood.

Shop Drawings: Complete calculations and shop drawings indicating all member forces, stresses, duration factors, lumber grades, dimensions, truss-to-truss connections, metal plate sizes and locations, and applied loads shall be submitted and reviewed by the engineer before fabrication. Each connector shall be dimensioned on the shop drawings as to its exact size and location at the joi

LEGEND OF MARKS AND ABBREVIATIONS

ALT	Alternate	JST	Joist
ARCH	Architect	JSTs	Joists
BLDG	Building	K	Kip(S) = 1000 Pounds
BLK	Blocking	klf	Kips Per Lineal Foot
BN	Boundary Nail	ksf	Kips Per Square Foot
BOTT	Bottom		
BRG	Bearing	LB	Pounds (#)
BTWN	Between	LSL	Laminated Strand Lumber
BYND	Beyond	LVL	Laminated Veneer Lumber
CANT	Cantilever	MAS	Masonry
CGS	Center of Gravity of Strand	(MAX)	Maximum
CJ	Control Joint	MECH	Mechanical
CIP	Complete Joint Penetration	MEZZ	Mezzanine
ā.	Center Line	MFR	Manufacturer
CLR	Clear	(MIN)	Minimum
CMU	Concrete Masonry Unit	MISC	Miscellaneous
COL	Column	MTL	Metal
CONC	Concrete	PILL	riecai
CONT		/A11	
	Continuous	(N)	New
cs	Coll Strap		
		oc	On Center
DB	Deck Bearing	OPNG	Opening
DBA	Deformed Bar Anchor	OPP	Opposite
DBL	Double	OSB	Orientated Strand Board
DIM	Dimension		
DWG	Drawing	PCF	Pounds per Cubic Foot
		PERP	Perpendicular
(E)	Existing	PL	Plate
EA	Each	ptf	Pounds per Lineal Foot
ELEC	Electrical	PRE-FAB	Prefabricated
EMBED	Embedment	psf	Pounds per Square Foot
EN	Edge Nail	psi	Pounds per Square Inch
EQ	Equal	PT	Post Tension
EQUIP	Equipment	PT/DF	Pressure Treated Douglas Fir
EXT	Exterior		
		RD	Roof Drain
FD	Floor Drain	REINF	Reinforce/Reinforcement/Reinforci
FND	Foundation	REQD	Required/Requirements/Requiring
FLR	Floor	RTU	Roof Top Unit
FTG	Footing	KIU	Roof Top Offic
FRT	Fire Retardant Treatment	SCHED	Schedule
rk.	rife Retainant freautent	SCW	Seismic Critical Weld
	C	SIM	
ga GALV	Gage		Similar
	Galvanized	STD	Standard
GLB	Glued Laminated Beam	STIFF	Stiffener
GSN	General Structural Notes	STL	Steel
		STRUCT	Structural
HD	Hold-down		
HDR	Header	T&G	Tongue and Groove
HORIZ	Horizontal	TEMP	Temperature
HSA	Headed Stud Anchor	TYP	Typical
HSS	Hollow Structural Section		
		U.N.O.	Unless Noted Otherwise
ICBO	International Conference of Building Officials		
IBC	International Building Code	VERT	Vertical
INT	Interior		
		w/	with
		WWR	Welded Wire Reinforcement
		WP	Working Point



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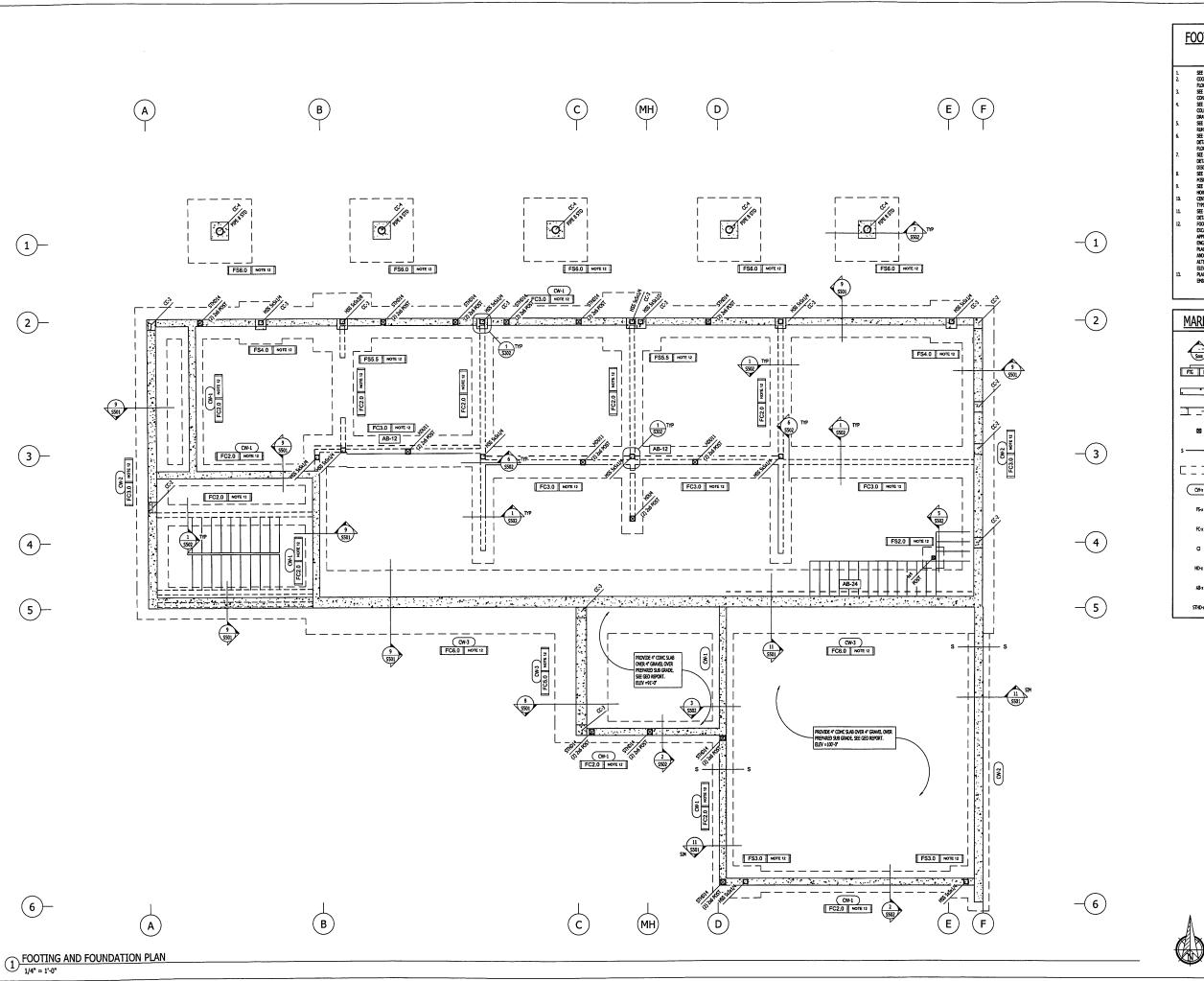
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SHEET TITLE

GENERAL STRUCTURAL NOTES

SHEET NO



FOOTING AND FOUNDATION **PLAN NOTES**

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SHEET TITLE FOOTING AND FOUNDATION

PLAN

SHEET NO.

SEE APO-TITECTURAL DRAWINGS FOR ALL DIMENSIONS.
COORDINATE LUCATION OF DEPOSSED 3 HAS, SUPED SLASS, AND
ALDOR DAMAS WITH ADVITECTURA. AND MEDIANICAL DRAWINGS.
SEE ARCHITECTURAL DRAWINGS AND CHIL DRAWINGS FOR EXPEDITO
CONCIDER 1900A OR ADORS, SIDEMAN, SEE ARCHITECTURAL
SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL
SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL
COLUMN COORDINATE DEPOSSED SHOWN WITH ARCHITECTURAL

DEFILIS FOR TYPICAL CONSTRUCTION AND CONTROL, DURITS IN PAGO SLAB.

SEE GEISPAL STRUCTURE, NOTES AND FROTING AND FROMENTION DEFILIS FOR LOCATIONS WHERE CONTROL CONTROL SONTS ARE DISCONTRADUCS.

SEE FROOTING AND FOUNDATION DEFILIS FOR RESPORTICING ABOUND INSCILLANGUAR OPENINGS IN CONCRETE WALK.

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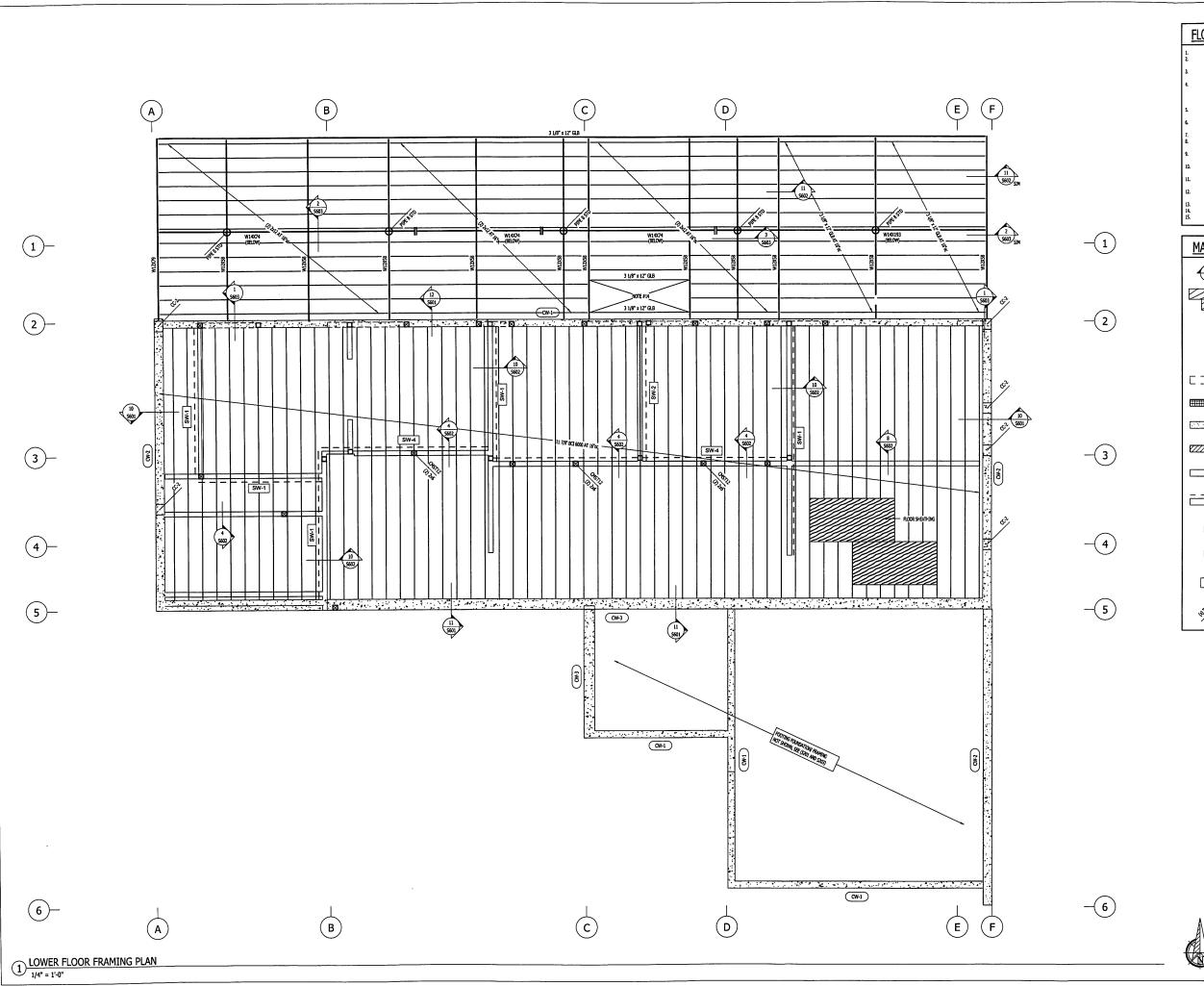
MARKS AND SYMBOL LEGEND

Smx - SECTION MARK - SHEET NUMBER FTG BLEV. FTG STEP, SEE FTG AND FND DETS ON (SSO1) WALL ABOVE CNY-x CONC WALL, SEE SCHED SPOT FTG, SEE SCHED CONT. FTG, SEE SCHED CONTROL XXINT, SEE FTG AND FND DETAILS ON (550) HOLD-DOWN TYPE, SEE GSN AND SCHED'S ACHOR BOLT SPACING, x= SPACING ID INCHES SEE SHEARWALL SCHEDULE FOR SIZE AND EMBED REQUIRMENTS HOLD-DOWN TYPE, SEE GSN AND SCHED'S

5673 S Redwood Rd.

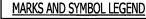


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FLOOR FRAMING PLAN NOTES

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 ETC. WITH AROUTECTURAL DRAWINGS.
 SEE RLOOR RRAWING DETAILS FOR FRAMENG AROUND ALL
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- SPECIFICALLY DETAILED.
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- SES SOIGNLES FOR PIPE PRETINATIONS THROUGH WOOD WALL TOP AIRTS. FOR BUILT UP BEINS AND COULHING, SEE FRANCHING FORTALS. FITE COMM PROFIT ON BUILL HEIGHT BERRING POST COOR. AT THE SHE LOCATION, USE LINESS OF POSTS SPECIFIED. SHE FRANCHING LEGAL FOR TIPPOLL BEHANDS TIDDS AND DING STED SHE WILL DEPOLLED. FOR THE PLANT SPLICTING REQUIREMENTS FOR WOOD SHERWILL. ALL DITEIDORS HINLES ARE (SHET) UNLESS MOTEO OTHERWISE, SEE SHEW ALL LINES ARE (SHET) UNLESS MOTEO OTHERWISE, SEE SHEW, TILLISSE, ELE AN BETESSAYTH CURRING CONSTRUCTION. PROVIDE RULL DEPTH BUILD AT SPEARWILL ADOVE. SHAM, SEE SEE, EL AN BETESSAYTH CURRING CONSTRUCTION. PROVIDE RULL DEPTH BUILD AT SPEARWILL ADOVE. SHAM, SEE SEE, EL AN BETESSAYTH CURRING CONSTRUCTION. PROVIDE RULL DEPTH BUILD AT SPEARWILL ADOVE. SHAM, SEE SAGELETIONAL. AT TRANSITION FROM LIVING TO BALLOWN SEE DETAIL (19502)



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WALL INSULATION, SEE ARCH

STEEL COLUMN, SEE SCHED ON (\$301)

WOOD BRG WALL, SEE SCHED

CC-x CONC COL, SEE SCHED

08-1 CONC BEAM, SEE SCHED

SW-x

- INDICATES NUMBER OF TRIMMER STUDS

DATE 07/22/2016

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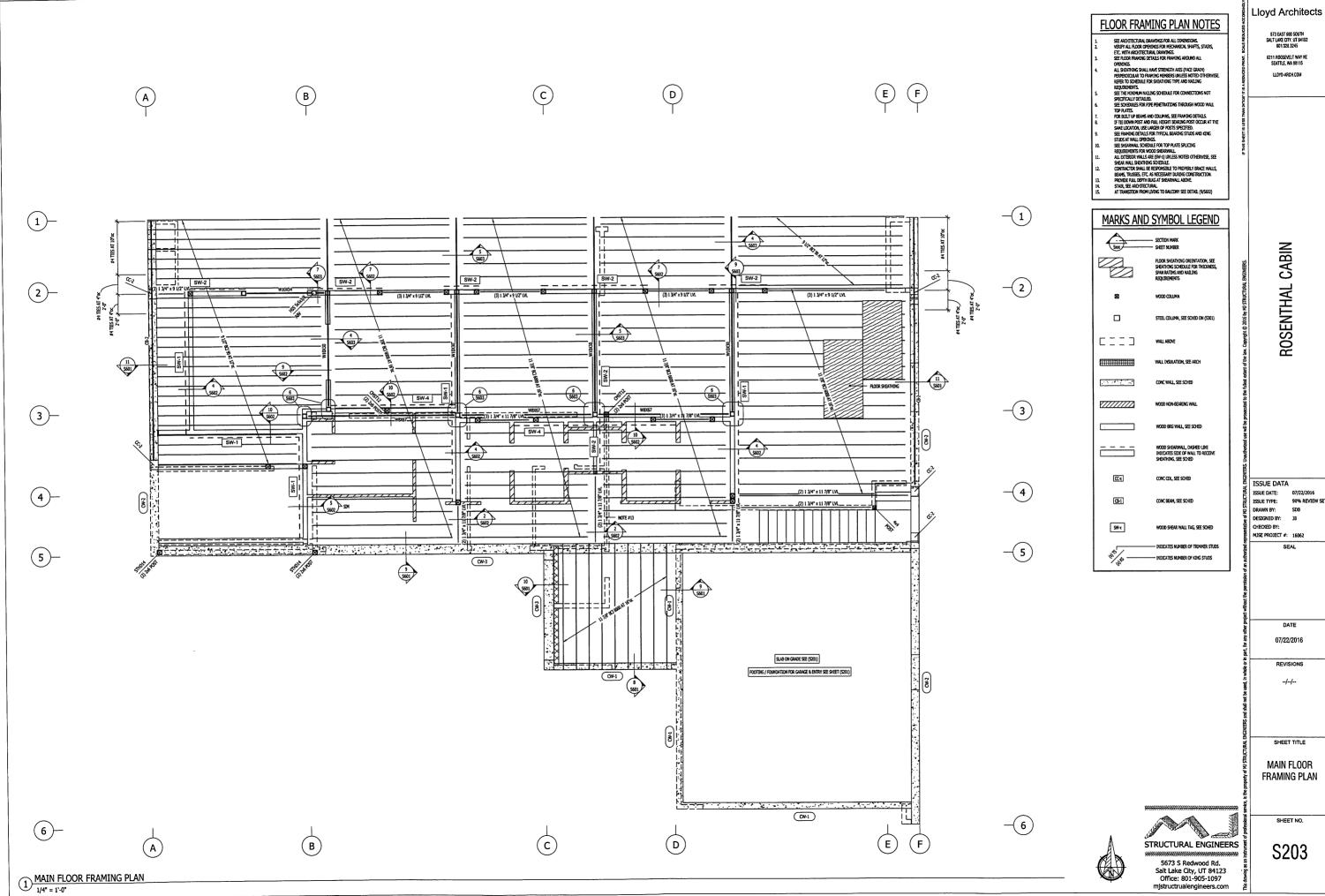
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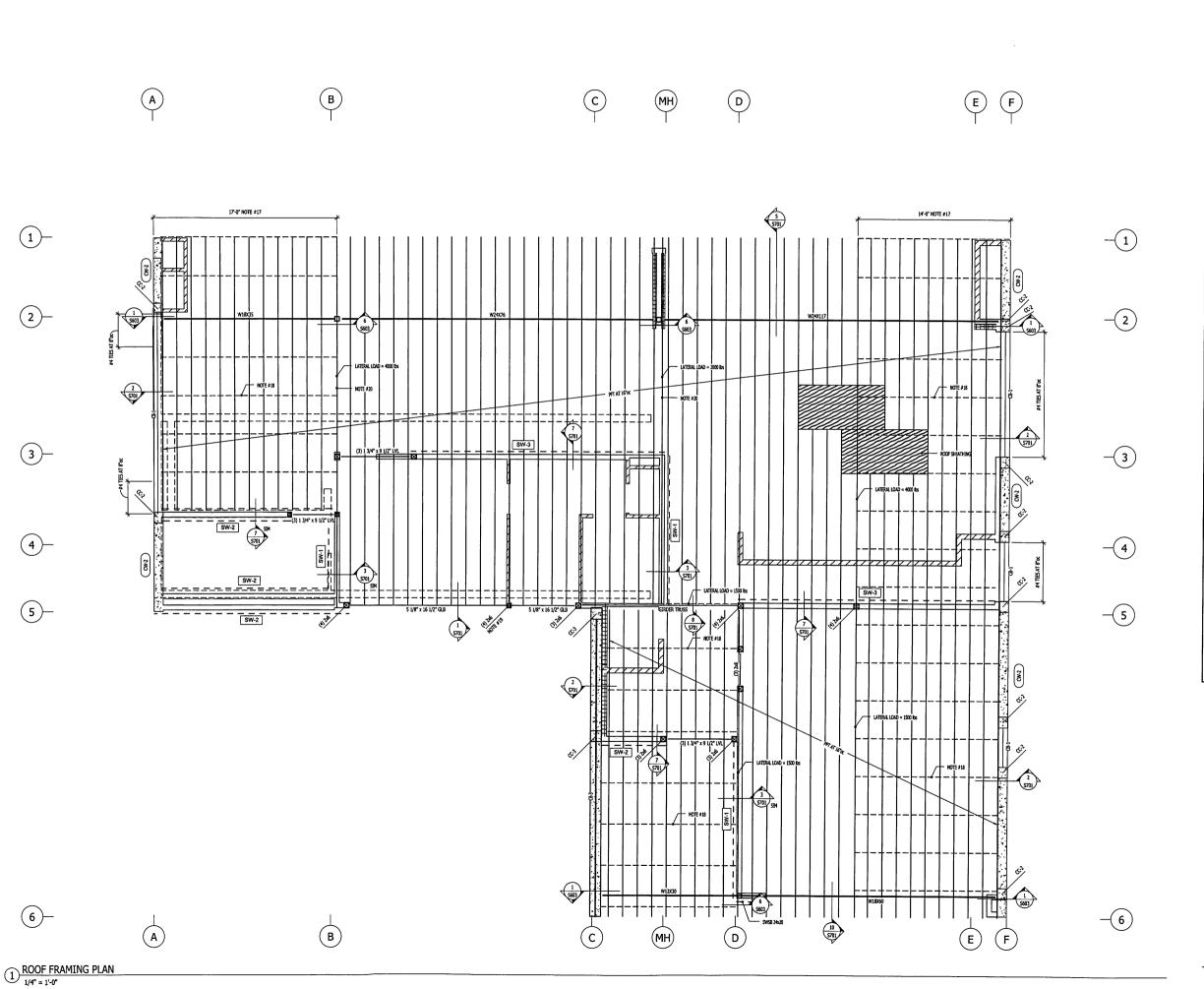
LOWER FLOOR FRAMING PLAN

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ROOF FRAMING PLAN NOTES

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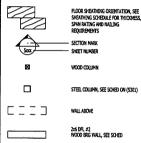
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MARKS AND SYMBOL LEGEND



WALL INSULATION, SEE ARCH

WOOD SHEARWALL, DASHED LINE INDICATES SIDE OF WALL TO RECEIVE SHEATHING, SEE SCHED

SW-x WOOD SHEAR WALL TAG, SEE SCHED

CC-x CONC COL, SEE SCHED CONC BEAM, SEE SCHED

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SHEET TITLE **ROOF FRAMING** PLAN

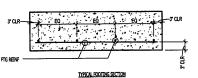
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	CONCRETE FOOTING SCHEDULE													
REINFORCING CROSSWISE REINFORCING LENGTHWISE												COMMENTS		
MARK	HTOTH	LENGTH	DEPTH	NO	SIZE	LENGTH	SPACING	NO	SZE	LENGTH	SPACING	COMMENTS		
FC2.0	2.0,	CONT	12"	_	_	_	_	3	#4	CONT	EQ			
FC3.0	30.	CONT	12*	_	#5	2'-6"	14*	3	#5	CONT	EQ			
FC4.0	4'-0"	CONT	12*	_	#5	3'-6"	14*	4	#5	CONT	EQ			
FC5.0	5'-0"	CONT	14*	-	#6	4'-6"	14"	5	#6	CONT	EQ			
FC6.0	6.0	CONT	14*	-	#6	5'-6"	14"	6	#6	CONT	EQ			
F\$3.0	3.0.	30.	12"	3	#5	2'-6"	EQ	3	#5	2'-5"	EQ			
FS3.5	3.2.	36.	12°	3	#5	30.	EQ	3	# 5	30.	EQ			
FS4.0	4:0"	41-01	12"	4	#5	3'-6"	EQ	4	#5	36.	EQ			
FS4.5	4'-6"	4'-6'	13"	5	#5	4'-0"	EQ	5	\$ 5	4'-0"	EQ			
FS5.0	5.0	5'-0"	14"	6	#5	4'-5"	EQ	6	#5	4'-5"	EQ			
F\$5.5	5'-6"	5'-6"	15*	5	#6	5:-0"	EQ	5	#6	5'-0"	EQ			
FS6.0	8:-0*	6.0	15°	6	# 6	5'-5"	EQ	6	#6	5'-6"	EQ			

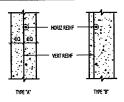


- PLACE ALL POOTING REINFORCING IN BOTTOM OF FROTTING WITH IT CLEAR CONCRETE COMER, LALLES NOTED OTHERWISE. TOP REINFORCING, WHELE SECRETION, SHALL SE PLACED IN THE TOP OF THE FROTTING WITH IT PRIMINAN CONCRETE COMER. IT FORTINGS ARE WITH FROMEN, FORTING WOTHER AND INSTEAD SHALL SE OF WHERE AND LONGER THAN SOJEDLED. SEE GREEKA, STRUCTURAL MISTER FOR ALL OTHER REQUIREMENTS. NOT ALL PROTTINGS ARE USED. SEE FORTING THAN AREA FROTTING MANS. RAY CONTINUOUS BASS BY TC FOOTING THROUGH INTERSECTED TS FOOTINGS.

	CONCRETE WALL											
MARK	THIODNESS	WALL TYPE	COMMENTS									
MANY INTOVICES		VERTICAL	HORIZONTAL	TOP AND BOTTOM	WALL THE	WYENS						
CW-1	8*	(1) #5 AT16°∞	(1) #5 AT16°cc	(1) #5	A							
CW-2	10°	(2) #5 AT16*oc	(2) #5 AT16°oc	(2) #5	С							
CW-3	12*	(2) #5 AT12°oc	(2) #5 AT11°∝	(2) #5	С							

CONCRETE WALL NOTES:

SEE GEHENUL STRUCTURAL NOTES FOR COVER AND OTHER RÉQUIREMENTS NOT NOTED IN SO-EDULE.
PLACE STEEL IN THE CENTER OF THE WILL (BOLDETTIFE & MAD REFAILING WALLS), WALLS THOUGH THAN 11'S SHALL HAVE TWO CLRITAINS OF REPROCEDENT (PLACED HERE A HERE OF THE WILL), LIEUE ANTED OTHERWISE ON THE STRUCTURAL DRAWNINGS.

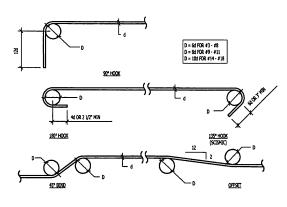


HORIZ F	
TYPETC	TYPE TO*

	CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE															
1		fc = 30	00 PSI			fc = 40	00 PSI			fc = 45	00 PSI			fc = 50	00 PSI	
BAR	REGULAR		TO	æ	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP	
SIZE	CLASS		a	uss	a	uss	CLASS CLASS		CLASS		CL	uss	CI.	ss		
Ī	Α	В	A	В	Α	В	Α	8	Α	В	Α	В	Α	В	Α	В
#3	17"	22*	22"	28*	15*	19"	19*	25*	14*	18*	18"	23*	13°	17"	17"	22*
#4	22*	29"	29*	38*	19*	25"	25°	33*	18*	24"	24*	31°	17"	23*	23*	29"
#5	28°	36°	36*	47"	24*	31*	31°	41"	23"	30°	30*	38*	22*	28*	28*	36°
#6	33*	43*	43*	56*	29*	37"	37"	49*	27*	35"	35*	46*	26°	34*	34"	49°
\$7	48°	63°	63*	81*	42*	54"	54*	71*	40°	51°	51*	67*	38"	49*	49*	63°
#8	55*	72*	72°	93.	48"	62"	62°	81*	45°	59*	59*	76*	43"	56*	56°	72*
#9	62"	81"	81°	105*	54°	70°	70"	91*	51*	86°	66*	85*	\$	63.	63*	81°
#10	70"	91*	91°	118*	61*	79°	79*	102*	57°	74*	74*	96*	54*	71*	71"	92"
#11	78°	101°	101°	131*	67°	87*	87*	114*	64"	82"	82*	107	66	78*	78°	102*

CONCRETE REINFORCING BAR LAP SPLICE NOTES:

- 1. THIS SOURCLE SHALL BELISED FOR ALL SPLICES, LIMEDS NOTED DITHERMISE.
 2. HORDONTAL BARS ARE CLASSIFIED AS TOP BARS WHERE LT?, OR MORE, OF FRESH CONCRETE IS CAST BRLOW THE REINFORCING BARS.
 3. CLASS BY SPLICES SHALL BE USED FOR ALL SPLICES UNLESS NOTED OTHERWISE.
 4. TIES AND STREAMS THAT, LIM THE SPLICED.
 5. FOR ALL LIMENTINGER CONCRETE, LIMENDING SHALL BE MALTIFLED BY 1.1.
 6. FOR ALL BOYD COATED BARS, LIPE LIMENTING SHALL BE MALTIFLED BY 1.2.
 6. FOR ALL BOYD COATED BARS, LIPE LIMENTING SHALL BE MALTIFLED BY 1.2.
 6. FOR ALL BOYD COATED BARS, LIPE LIMENTING SHALL BE MALTIFLED BY 1.2.
 6. FOR ALL BOYD COATED BARS, LIPE LIMENTING SHALL BE MALTIFLED BY 1.2.
 6. FOR ALL BOYD COATED BARS, LIPE LIMENTING SHALL BE MALTIFLED BY 1.2.
 6. FOR ALL BOYD COATED BARS, LIPE LIPENTING SHALL BOUNDARY ELDHENTIS.
 7. LIPE LIPENTING BARS LIPENTING SHALL BE MALTIFLED BY 1.2.
 7. LIPENTING SHALL BE MALTIFLED BY 1.2. AN SHAWANTEL BOUNDARY ELDHENTIS.
 7. LIPENTING SHALL BE MALTIFLED BY 1.2. AN SHAWANTELD BARS AND 1.5 FOR REGULAR BARS.
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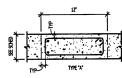
1 CONCRETE FOOTING SCHEDULE S301 NO SCALE

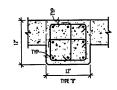
	CONCRETE COLUMN SCHEDULE										
MARK	PTER STZE	TIES	COMMENTS								
MAKA.	PIEK SIZE	VERTICAL	TIES	7 "							
CC-1	8" x12"	(4) #5	#3 AT8°oc	Α .							
CC-2	10" x12"	(4) #5	#3 AT8"oc	A							
α.3	12° x12°	(8) #5	#3 AT8*oc	Ą8							
α.4	20° x20°	(8) ≉6	#4 AT8"00	В							

CONCRETE PIER NOTES:

- INSTALL (3) SETS OF TIES AT 3"0: AT TOP OF ALL COLUPAIS (IANO).
 ALTERNATE POSITION OF HOOKS IN PLACING SUCCESSIVE SETS OF TIES.
 USE TYPE 8 AT STEEL COLUPHI LOACTIONS, SEE PLAN
 TYPE BY COLUMNATION WALL MAY NOT EXIST AT EXTERIOR COLUPAIS.

4 CONCRETE PIER SCHEDULE 3301 NO SCALE:





2 CONCRETE WALL SCHEDULE

S301 NO SCALE:

CONCRETE BEAM SCHEDULE							
MARK THEORIESS DEPTH REINFORCING REMARKS							
MARK	THEORNESS	DEFIN	TOP AND SOTTOM	TIES	NOWNS		
CB-1	10"	2-0	(2) #6	\$4 AT 12°00	NOTE 5		
C3-2	10"	2-0"	(2) #7	#4 AT 8"00	NOTES		
CB-3	12"	7-6	(8) #7 TOP (4) #7 BOTT	#4 AT 8"00	NOTE 5		

CONCRETE BEAM NOTES:

- 1. LINTEL WIDTH AND MATERIAL TYPE SHALL BE THE SAME AS THE WALL IN WHICH THE LINTEL
- LINIE, WIGHT NO MALEGIA, I'THE SMALE, BE HE SWIPE IS HE WALL IN WHICH HE CL TO SHESH AT BE SPLEED AT THE MID-SMAY OF LINTELS ONLY. THES MO STERLIES MAY BE SPLEED ONES SPRONTS OF LINTES ONLY. THES MO STERLIES MAY BE SPLEED ONLY SET PLAN WHEN SHEETS (SAZ & SZES) CANTILLIFIES WALL RESPONDING COLUMN REPROPRIEDS THRU SHAM.

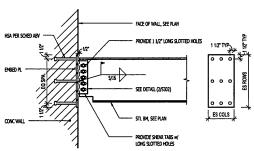
CONC BEAM ·	WOM SEE	CONC WALL, SEE CONC WALL, SEE CONC WALL, SEE
	SCHEDULE	

5 CONCRETE LINTEL SCHEDULE
S301 NO SCALE:

3 CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE / BAR BENDING DIAGRAMS

S301 NO SCALE:

EMBED PLATE CONNECTION SCHEDULE						
BEAM DEPTH BEAM PLATE ANCHORS						
W8, W10, W12	1/2"x10"x12" (HIGH)	(2) HORIZ ROWS (2) 3/478 x 5" HSA (4) TOTAL				
W14, W16	1/2"x10"x16" (HIGH)	(3) HORIZ ROWS (2) 3/4°0 x 5° HSA (6) TOTAL				
W18, W21	1/2"x12"x20" (HIGH)	(4) HORIZ ROWS (3) 3/4°0 x 5° HSA (12) TOTAL				
W24, W27	1/2"x14"x26" (HIGH)	(5) HORIZ ROWS (4) 3/4°0 x 5° HSA (20) TOTAL				



6 CONCRETE LINTEL SCHEDULE

S301 NO SCALE

S301

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	AT COLS GREATER THAN 4", USE (4) OUTER APS CNEY AT COLS 4" MID SHALLER, USE (2) CENTER AS CNEY B		AT COL	S 4" AND SAMLER. Center A8 Only
RASE PL SRP-2		BASE PL 589-1		
ω· 	w			∕P 1/4 / 11/P, COL ΒΡ

ALL OF PLATE BOLLS WITH OTHERWISE. ALL COLLINGS SHALL BE INSTALLED WITH JAYST HADED) (OR DOUBLE MIT)
AMCION BOLLS, PROJECT ANCION BOLLS I' MORAMA ABOVE THE TOP OF THE BASE RATE. EMERINATION
AND BOLLS AND HADE THE ANCION BOLLS I' MORAMA BOVE THE TOP OF THE BASE RATE. EMERINATION
AND BOLLS HADES THAN HE BOLD TOWNETHER MIS YES SHALL WERE A RATE WAGGES
INSTALLD BERCHIN THE MORENEOUS WIGHTS STATUS SHALL WITH A RATE WAGGES
IN MORE BOLLS SHALL BOLL BOLD BOLLDOWN TACK WELDS).

J. PERSHED SPLICE LOCATIONS OFFER RICH THOSE LEVELS SHOWN ON RAME, NOTEST STRUCTURAL
BORNETH ROOM TO MARKETON WITHIN ANYONIA REQUISED.
ALL COP PLATE BOLLS SHALL BE SAY'S ASSES MOLTS. THYRCIL MALESS INTED OTHERWISE.
SEE CHEMPLA STRUCTURAL MOST SERVICE WITHIN THE PLATE AND THE STRUCTURAL
BEST STRUCTURAL STRUCTURAL MIST SERVICES.
BE SEED AND STRUCTURAL WISE SERVICES AND THE SOUTHERNISE.
SEE CHEMPLA STRUCTURAL MOST SERVICES FOR THE REQUISITIONS.

BASE PLLEGEND:

'co' = 1/2" MENEMUM 'ed' = 1 1/2" MENEMUM 'bc' = 3" MENEMUM

HSS5x5x1/4*

HSSSx5x1/2*

PIPE 8 STD

HSS5x5x3/8*

SC-1

SC-2

SC-3

SC-4

STEEL COLUMN NOTES:

CAP PLLEGEND:

STEEL COLUMN SCHEDULE STEEL BASE PLATE

3/4" (SBP - 1)

3/4" (SBP - 1)

3/4" (SBP · 1)

3/4" (SBP - 1)

STEEL CAP PLATE THICKNESS

3/4* (SCP - 1)

3/4" (SCP - 1)

3/4° (SCP - 1)

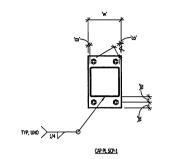
COMMENTS

AT END COND USE (SCP-2)

AT END CONDUSE (SCP-2)

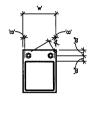
TYP, UNO > 1/4 /

3/4" (SCP - 1) AT END COND USE (SCP-2)



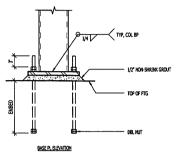
STEEL COLUMN BASE PLATE TYPES:

BASE PL SBP-1



CAP PL SCP-2

— COPE BM AS REOD



STEEL COLUMN SCHEDULE
S302 NO SCALE:

A-325 BOLT SCHEDULE				
MAXIUMU BEAM SIZE IN EACH BEAM A-325N BOLTS				
DEPTH GROUP	No. PER BEAM	SIZE		
W10	2	7/8*Ø		
W12	3	7/8*Ø		
W18	5	7/8*Ø		
W24	7	7/8*Ø		

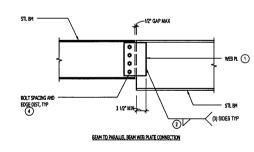
- 1.78 D

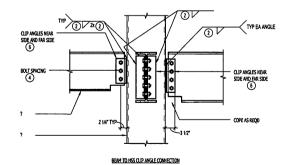
 BEAM MED COMECTION PLATES, THIS CHESS EQUALS THE BEAM MED THIS CHESS PLUS
 18° (LZP MID).

 (1) FILLEY WIRLDS SHALL BE AS FOLLOWS:
 ONE SIDE: PLATE THIS CHESS MIDLS 1/15° (LVP MODRAM)
 THO SIDES: 1/2 PLATE THIS CHESS MIDLS 1/15° (LVP MODRAM)
 THO SIDES: 1/2 PLATE THIS CHESS MIDLS 1/15° (LVP MODRAM)
 (2) THIS CHESS SHALL BE 1/12 PLATES AND THIS MODERAND MIDLS SHALL BE AT 3°.
 BOLT ENCO POSTUMES SHALL BE 1/12 PLATES AND THE MODERAND MIDLS SHALL BE AT 3°.
 BOLT ENCO POSTUME SHALL BE 1/12 PLATES AND THE MODERAND MIDLS SHALL BE AT 3°.
 BOLT ENCO POSTUME SHALL BE 1/12 PLATES AND THE MODERAND MIDLS SHALL BE AT 3°.
 BOLT ENCO POSTUME SHALL BE 1/12 PLATES AND THE SEQUED FOR AS SHALL BE AT 3°.
 WHEN THOSE WIRLD BE ADDRESS AND THE SEQUED MIDLE SHALL BE AT 3°.
 USE OF THIS CHARLES SHALL BE ADDRESS SHALL BE AND THE SECOND COUNTY.

 (1) THE REPORTING FOR THE BOLT SHALLDED IN THE SECOND COUNTY WHILE BE CONTRACTED. THIS COUNTY WITH THE REPORT THIS COUNTY WITH THE REPORT THIS COUNTY WITH THE SHALL BE THIS COUNTY THE SHALL BE THIS COUNTY WITH THE SHALL BE THE T

		/_		
BOLT SPACING AND — EXCE DIST, TYP 4			wi	BA (1)(5)
ī	747	3 1/2" MAX	ST	LBM
	BEAM TO BE	EAM WEB PLATE CONNECTION		

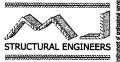




TYPICAL BOLTED WEB PLATE CONNECTIONS WITH BOLT

SCHEDULE (SINGLE SHEAR)

SOUZ NO SCALE



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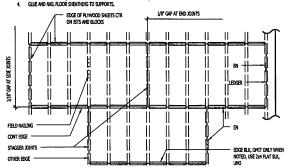
SHEET TITLE

SCHEDULES

SHEATHING SCHEDULE							
WOOD SHEATHBYG EDGE MAIL FIELD BOURDARY EDGE							
LOCATION	THICKNESS	NAIL SZZE	CONT EDGE	OTHER EDGE	NAIL	NAIL	BLOCK
R00F-1	5/8*	10d	6°0c	6°oc	12°00	4°00	YES
ROOF-2	5/8*	10d	4°00	4°oc	12°∞	2-1/2*cc	YES
FLOOR	3/4° TAG	10d	6°00	6°00	12°0c	4°oc	YES

PLYWOOD SHEATHING NOTES:

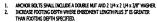
- MINIMUM NAIL PENETRATION ENTO FRAMING 86-1 1/2", 10d-1 5/8".
 USE SCREW SHAK NAILS AT ROOR RYWOOD.
 USE COMPION NAILS. (8d DIAMETER = 0.131", 10d DIAMETER = 0.148")
 GLIE AND NAIL ROOR SHEATHING TO SUPPORTS.

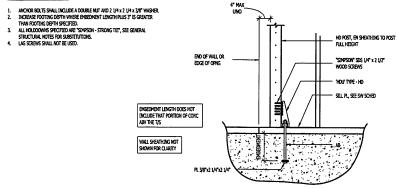


1 SHEATHING SCHEDULE AT ROOF AND FLOOR S303 NO SCALE

'HDU' TYPE HOLDDOWN SCHEDULE						
NARK HOLDOWN POST WOOD SCREWS "SINFSOM" SDS ANCHOR BOLT Ø BIGED DEPTH						
HDU4	(2) 2x	(10)	5/8"	09.		
HDUS	(2) 2x	(14)	5/8"	03.		
HDU8	(3) 2x	(20)	7/8*	1'-0"		
HDU11	(3) 2x	(30)	r	1' - 2"		

'PHD' TYPE HOLDDOWN NOTES:



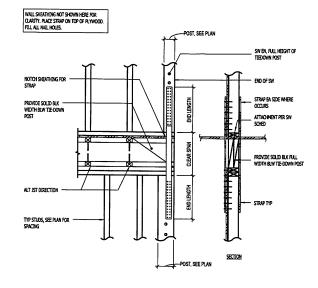


1/8" GAP AT SHEATHING END JOINTS

- JOINT STUD, USE 3x WHERE REQD BY SCHED

STLL PL, USE 3x WHERE REQD BY SCHED

COIL STRAP TIEDOWN SCHEDULE TOTAL FASTENERS GAUGE CMSTC16 20° 16 (50) 16d



3 COIL STRAP TIEDOWN SCHEDULE
S303 NO SCALE

HEADER, SEE PLAN

EDGE NAIL SHEATHING ALL AROUND OPING FULL HEIGHT OF KING STUD AND FULL LENGTH OF BLOCKS

2x Flat Block to receive Strap natling typ - DBL 2x X CONT STLL PL NO SPLICE

SEE SW SCHEDULE FOR AB SIZE AND SPACING 5/8" AT 32"00 TYP, UNO

2 HDU' TYPE HOLDDOWN SCHEDULE S303 NO SCALE

SW/EN TO UPPER TOP PL

BLK ALL XOINTS

FIELD NAIL

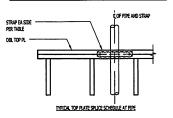
WOOD SHEATHING SHEARWALL SCHEDULE								
MARK WOOD SHEATHING SHEATHING BOTH SIDES NAIL SIZE EDGE MAIL FIELD MAIL JOINT STUD. SILL MAILING TO SILL BOLTING WOOD TO WOOD								
SW-1	7/16*	No	8d	6°00	12°oc	2x	16d AT 10°oc	5/8°Ø AT 32°oc
SW-2	7/16"	No	8d	4°00	12°00	2x	16d AT 8*oc	5/8"Ø AT 32"oc
SW-3	7/16*	No	8d	3°0c	12°00	2x	16d AT 6"oc	5/8°Ø AT 24°oc

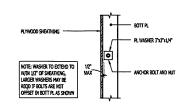
SW-4 7/16" Yes 8d 3"oc 12"oc 3x 16d AT 3"oc 5/8"9 AT 12"oc

- NOTING M.M.L. PRIETRATIONISTIC PRAMENC, 56 = 1 127, 156 = 1.56°
 125 COMPON MALE, (80 DUMETER = 0.131°, 150 DUMETER = 0.146°)
 STAGGES SPERTINGS (2017S ON GROUNE SIDEO WALLS (544°S THIN 544°S) SO THAT JOINTS IN EASIDE OF WALL DO NOT OCCUR AT SAME STUD.
 ALL MACKING SOLTS SAMEL WARE A 75°S LIFT AFTER MASSES.
 SEE DETAIL 1957-9 FOR ARITITION WALLS AT SPEARWALL
 ALL MACKING SOLTS STANL LAVER A PROPRIATE INSERT HE SET ALL SPEAR ALL OFFICER AT HIS SETUL.
 ALL MACKING SOLTS SHALL HAVE A PROPRIATE INSERT MATE SHALL SE MULIED TO THE ROOR BELOW. THEN THE SECOUND, PLATE W/ EA PLATE HAVING SPECIFIED
 MALLING. WHERE SI PLATES ARE USED PASTED W/ IM MALES 147° MICH OR USE 147° 14 147° SDS SORENS AT 6°CM.

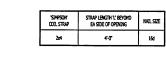
PL SIZE	(MIN) DISTANCE BYWN SPLICES	REQUINATES EA SIDE OF SPLICE
2x4	4°-0"	(22) 16d NAILS
2x6	6'-0"	3 ROWS OF (18) 16d NAILS

TOP PLATE SPLICE SCHEDULE				
HOLE SIZE	STRAPS			
LESS THAN 1/3 Stud width	NONE REQUIRED			
LESS THAN 2/3 Stud width	ST2122 WITH (4) 16d EA END			
OVER 2/3 STUD WIDTH	ST2215 WITH (6) 16d EA END			





_	b	4'-0" (MIN) LA		<u>.</u>
PROVIDE SIMPSON' STRAP WHEN	Mile	DISTANCE BTWN SPLIC	ES, SEE SCHED	1
NOTED ON PLAN. SIZE SEE PLAN.				/ SPLICE
<u> </u>	<u> </u>			
	,, 			
SPLICE BOTT PL OVER STUD	$\ /\ $			
(3) 16d AT 4°0c (36) 16d MIN EA SIDE OF EA SPLICE)	ע צ		J	
TYP STUDS				
		TOP PLATE SPLICE	DETAIL.	



SILL PLATE BOLTING TO CONCRETE

STRAPPING AT OPENINGS IN SHEARWALLS

- WHERE STILL PL IS DRILLED OR NOTCHED MORE THAN 1/3 WIDTH, INSTILL AB EA SIDE OF NOTCH

D = 6" MINIMUM, 12" MAXIMUM

MINIMUM NAILING SCHEDULE	
CONNECTION	NAULING
SOLE PL TO JST OR BUX, FACE NAIL	16d AT 1'-F'oc
BRDG TO JST, TOE NAIL EA END	(2) 8d
BLK BTWN JST OR RAFTERS TO TOP PL. TOE NAIL	(3) 84
RIM JST TO TOP PL TOE NAIL	8d AT 0'-6'cc
TOP PL TO STUD, END NAIL	(2) 16d
STUD TO SOLE PL, END NAIL	(2) 16d
DBL STUDS, FACE NATL	16d AT 2'-0'oc
DBL TOP PL, FACE NAIL	16d AT 1'-f'oc
TOP PL, LAPS AT WALL INTERSECTION, FACE NAIL	(2) 16d
CONT HEADER, TWO PIECES	16d AT 1'-4'oc ALONG EA EDGE
CEILING JST TO PL. TOE NAIL	(3) 84
CONT HEADER TO STUD, TOE NAIL	(4) 80
CEILING 1ST, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JST TO PARALLEL RAFTERS, FACE HAIL	(3) 16d
RAFTER TO PL. TOE NAIL	(3) &d
1° BRACE TO EA STUD AND PL FACE NAIL	(2) 8d
BUILT-UP CORNER STUDS	16d AT 2'-0'cc
BUILT-UP GIRDER AND BM	20d AT 32°oc AT TOP AND BOT
	AND STAGGERED, (2) 20d AT
	ENDS AND AT EA SPLICE
COLLAR TIE TO RAFTER, FACE NAIL	(3) 10d
JACK RAFTER TO HIP, TOE NAIL	(3) 10d
FACE NAIL	(2) 164
ROOF RAFTER TO 2x RIDGE BM, TOE NAIL	(2) 16d
FACE NAIL	(2) 16d
JST TO BAND JST, FACE NAIL	(3) 16d
LEDGER STRIP, FACE NAIL	(3) 16d
PLYWOOD AND PARTICLEBOARD:	***
SUBFLOOR, ROOF AND WALL	
SHEATHING (TO FRAMING)	
1/2" AND LESS	84
19/32" - 1"	8d OR 10d
1 1/8" - 1 1/4"	10d
COMBINATION SUB FLOOR -	
UNDERLAYMENT (TO FRAMING)	
3/4" AND LESS	8d
7/8" - 1"	8d OR 10d
11/8'-11/4'	104

NAILS SPACED AT 6 INCHES ON CENTER AT EIGGES, 12 INCHES AT INTERHEDIATE SUPPORTS, EXCEPT 6' INCHES AT ALL SUPPORTS WHERE SPAKE ARE 40 INCHES OR MORE, FOR NAILING OF DIAPHRAGHS AND SHEAR WALLS, REFER I THE APPROPRIATE SCHEDULE.

WOOD SHEATHING SHEARWALL SCHEDULE AND TYPICAL

4 DETAILS S303 NO SCALE:

5 MINIMUM NAILING SCHEDULE S303 NO SCALE:



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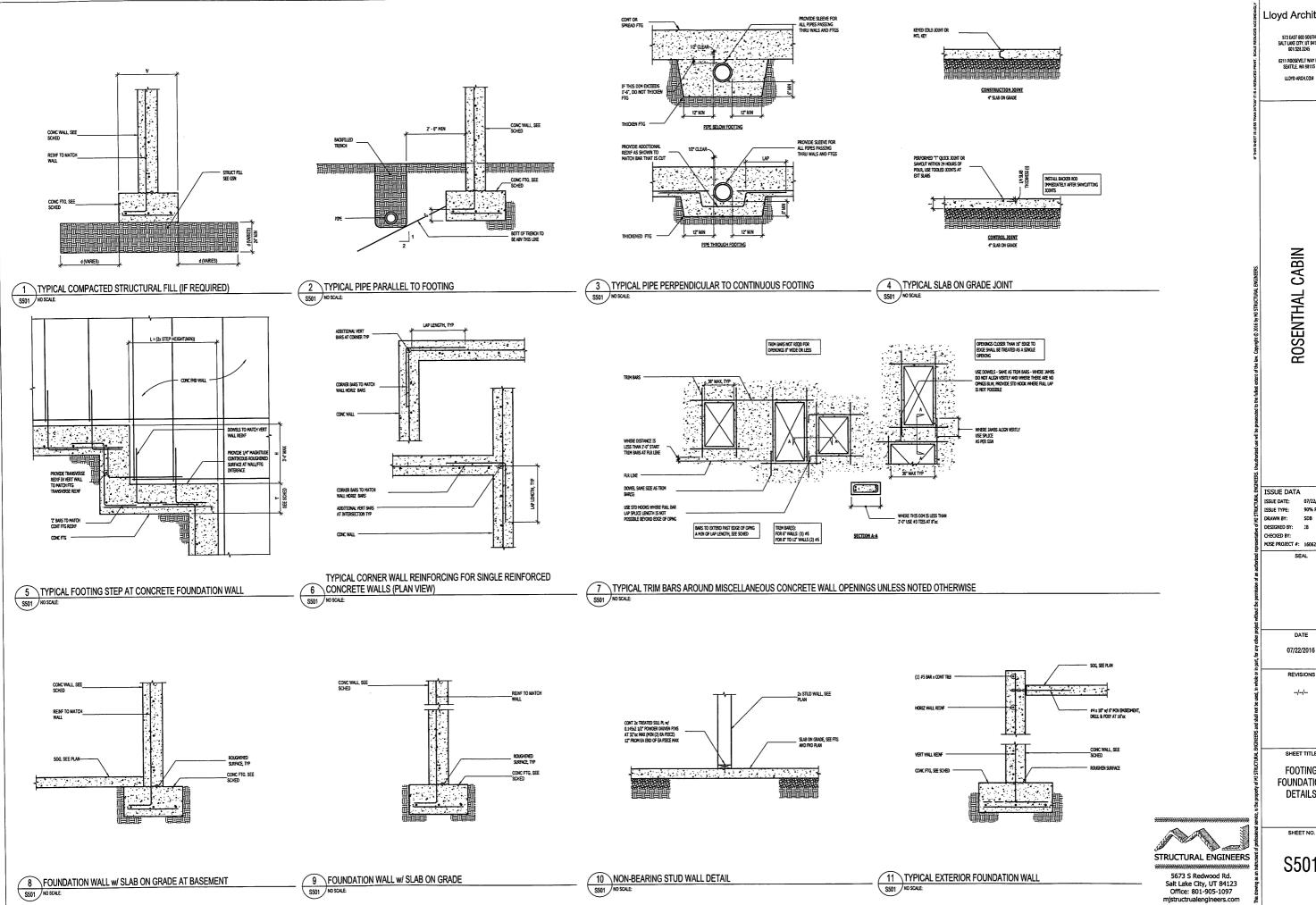
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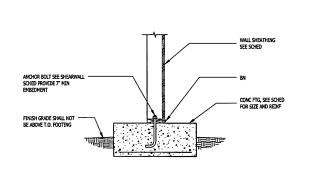
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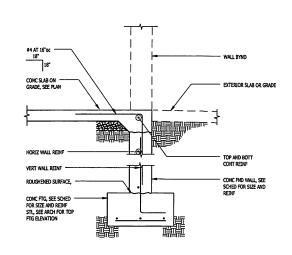
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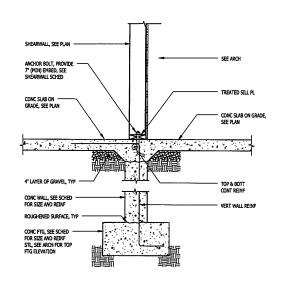
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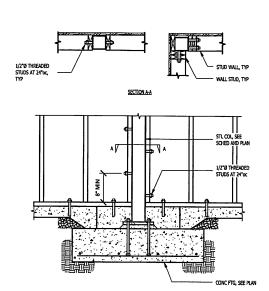
FOOTING FOUNDATION DETAILS

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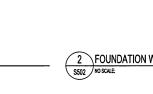






4 STEEL COLUMN IN WOOD WALL

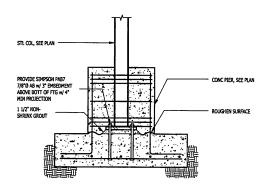
S502 NO SCALE:

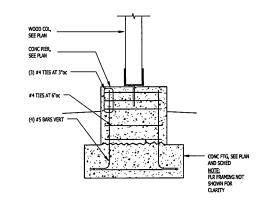


NOTE: FOR CONNECTION TO WOOD WALL SEE (4/S502)

1/4







1 WOOD SHEARWALL TO FOOTING S502 NO SCALE

5 WOOD COLUMN TO CONCRETE FOOTING



7 COLUMN AT CONCRETE PIER DETAIL
S502 NO SCALE:

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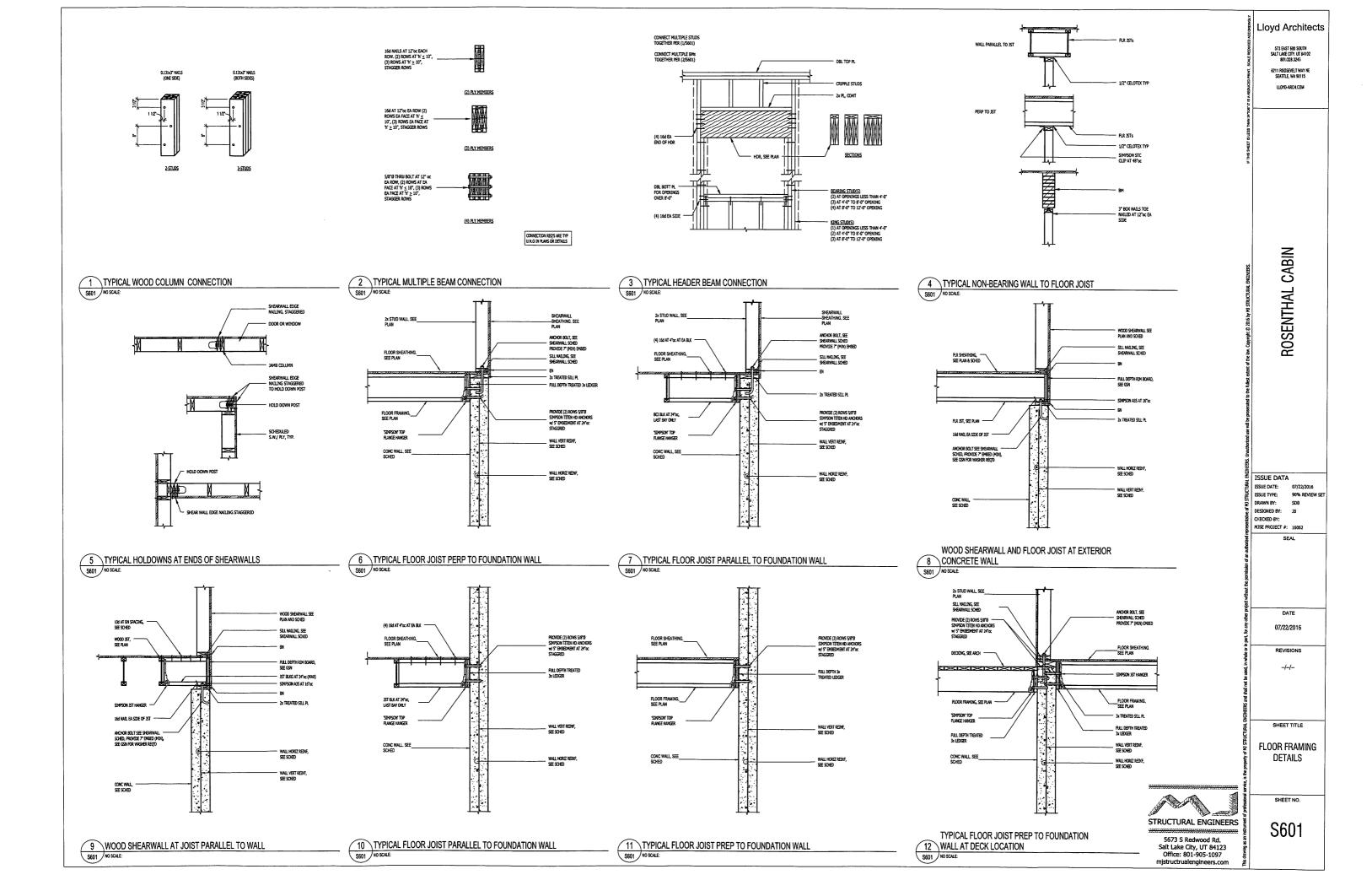
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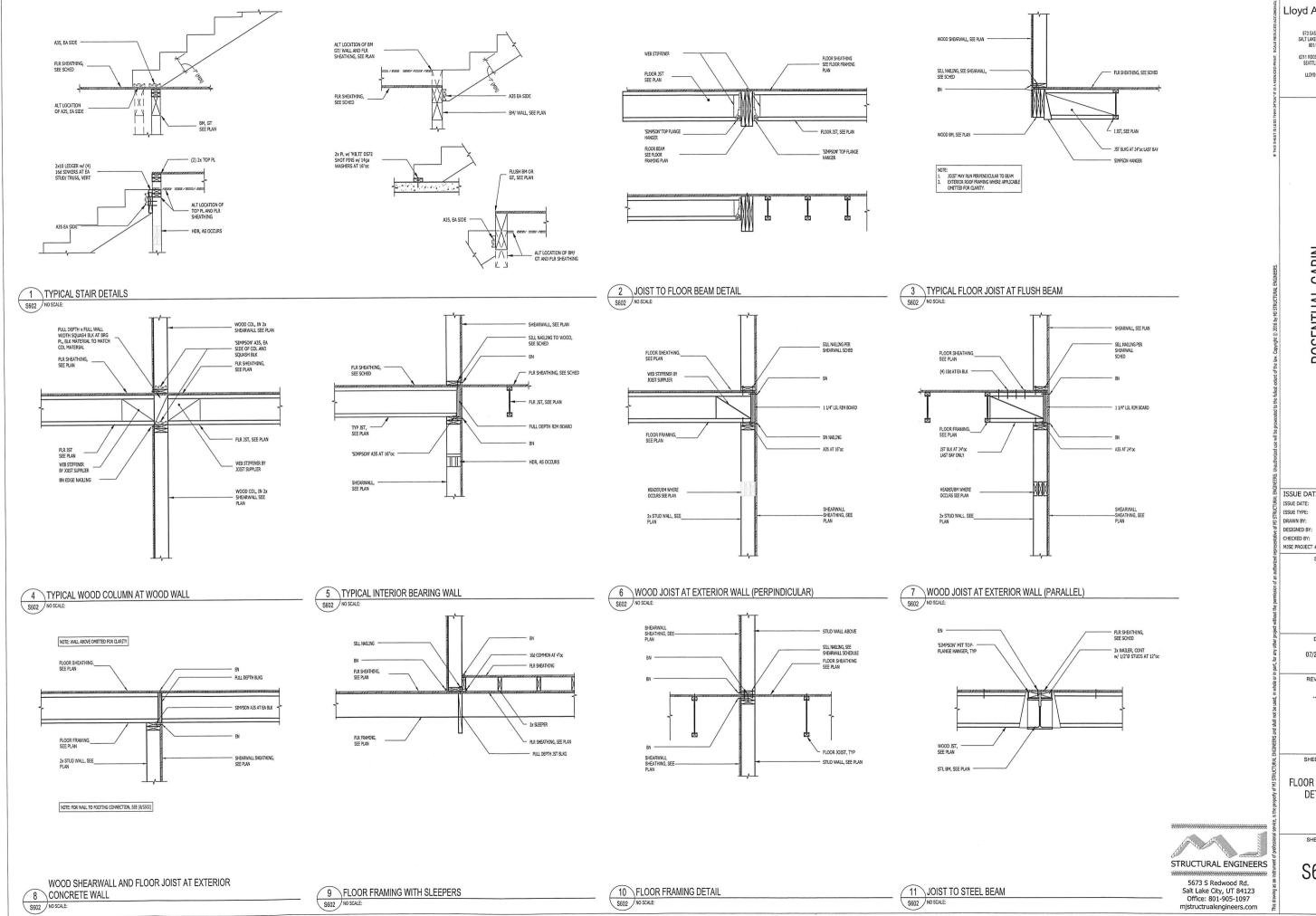
FOOTING FOUNDATION DETAILS

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S502

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ISSUE DATA 90% REVIEW SE SDB MJSE PROJECT #: 16062 SEAL

DATE 07/22/2016

REVISIONS

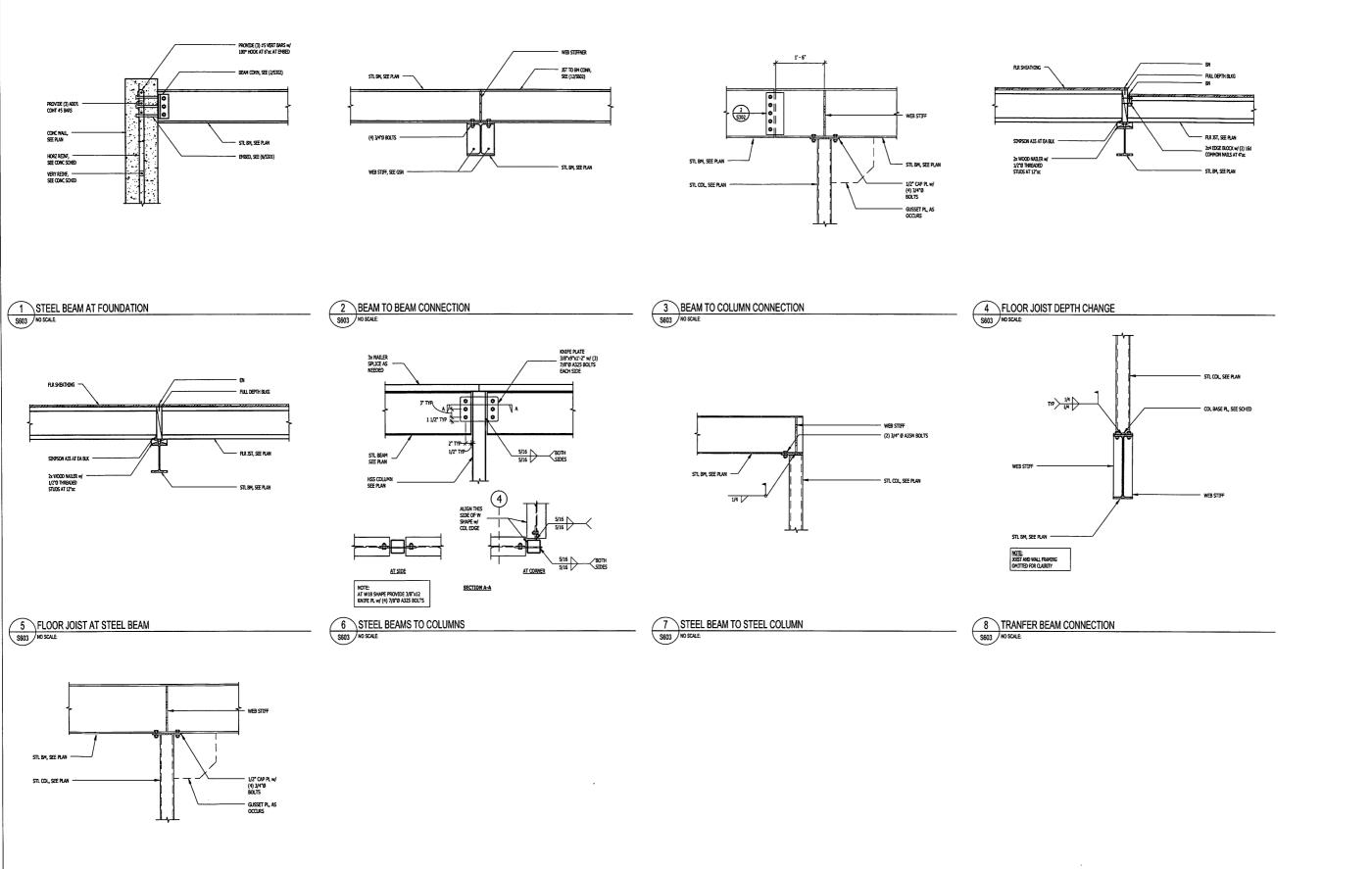
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FLOOR FRAMING **DETAILS**

SHEET NO.

S602

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9 BEAM TO COLUMN CONNECTION
S603 NO SCALE

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5673 S Redwood Rd. Salt Lake City, UT 84123 Office: 801-905-1097

Lloyd Architects 573 EAST 600 SOUTH SALT LAKE CITY, UT 84102 801/328.3245 6211 ROOSEVELT WAY NE SEATTLE, WA 98115

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ISSUE DATA ISSUE DATE: 07/22/2016
ISSUE TYPE: 90% REVIEW

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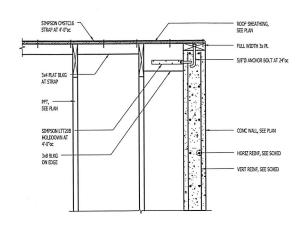
DESIGNED BY: CHECKED BY: MJSE PROJECT #: 16062

90% REVIEW SE

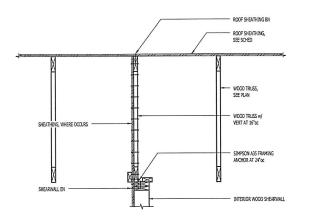
DATE 07/22/2016 REVISIONS --/--/--

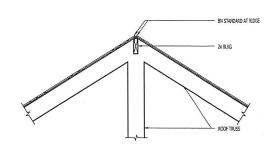
SHEET TITLE FLOOR FRAMING DETAILS

SHEET NO.



WOOD SHEATHING, SEE SCHED





NOTE: IF TRUSS STEP CONNECTION OCCURS AT SHEARWALL SEE (2/S702) FOR INFORMATION.

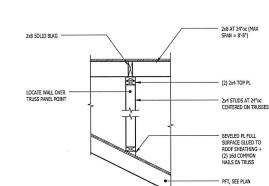
1 TRUSS PERPINDICULAR TO WALL S701 NO SCALE:

PFT, SEE PLAN

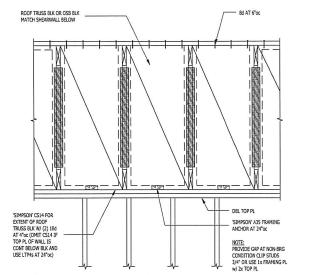
3x NAILER CONT w/ 1/2"0 THREADED STUDS AT 18"00

2 ROOF FRAMING PARALLEL TO WALL S701 NO SCALE:

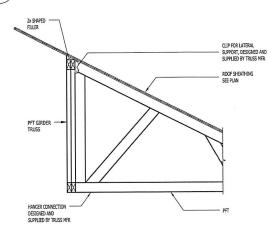
3 INTERIOR SHEARWALL PARALLEL TO ROOF TRUSSES S701 NO SCALE:



4 TYPICAL WOOD BEAM CAP SEAT AT STEEL COLUMN S701 NO SCALE:



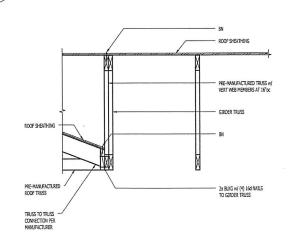
5 TRUSS AT EXTERIOR WALL (BEAM)
S701 NO SCALE:



6 OVERBUILD DETAIL S701 NO SCALE:

PFT, SEE PLAN

2v4 FLATWISE BLOCK



'SIMPSON' A35 W/ 10d x 1 1/2" NAILS AT EACH BLOCK 'SIMPSON' H1 CLIP EA TRUSS EA END

7 SHEARWALL TRANSFER PERPENDICULAR TO TRUSS

S701 NO SCALE:

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8 TYPICAL TRUSS CONNECTION DETAIL STOIL NO SCALE

9 TRUSS TO TRUSS CONNECTION NO SCALE:

CANOPY FRAMING
S701 NO SCALE:

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ROOF FRAMING **DETAILS**

SHEET NO.

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ROOF FRAMING PLAN

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