1. DESIGN CODES AND STANDARDS

B. MATERIAL CODES AND STANDARDS

ASCE/SEI 7-16 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER

AISC 360-16 - SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS

ANSI/AWC NDS-2018 - NATIONAL DESIGN SPECIFICATION FOR WOOD

MINIMUM ROOF DEAD LOAD (TO BE USED WITH GROSS UPLIFT)

ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

A. BUILDING CODE: IBC 2018

RISK CATEGORY

DESIGN LOADS:

STRUCTURES

CONSTRUCTION

GRAVITY LOADS

A. ROOF DEAD LOADS

CEILINGS

ROOF

3. ROOF SNOW LOAD

A. GROUND SNOW LOAD, Pg

E. THERMAL FACTOR, Ct

4. WIND DESIGN DATA

ZONE 1

ZONE 2

ZONE 3

E. WIDTH OF END ZONE

H. STRUCTURAL SYSTEM

J. ANALYSIS PROCEDURE

D. SITE CLASS

B. FLAT ROOF SNOW LOAD, Pf

C. SNOW EXPOSURE FACTOR, Ce

B. WIND EXPOSURE CATEGORY

ROOF PRESSURES (1.0W)

D. SNOW LOAD IMPORTANCE FACTOR, I

C. INTERNAL PRESSURE COEFFICIENT, GCpi

PLYWOOD DECK

MISCELLANEOUS

ROOF STRUCTURE

ROOFING AND INSULATION

MECH., ELEC. AND PLUMBING [AND SPRINKLERS]

A. ULTIMATE DESIGN WIND SPEED (3 SECOND GUST), Vult

D. DESIGN WIND PRESSURE ON COMPONENTS AND CLADDING

TOTAL SUPERIMPOSED ROOF DEAD LOAD

C. LIVE LOADS (UNIFORM/CONCENTRATED)

CONCRETE:

WOOD:

STRUCTURAL STEEL CONNECTIONS OF FRAMING AND BRACING ELEMENTS.

APPROVAL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

 B. STEEL, SELF-SUPPORTING STAIRS. DOCUMENTS FOR DEFERRED STRUCTURAL SUBMITTAL ITEMS SHALL BE DESIGNED. SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER-OF-RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL AS REQUESTED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED FOR DESIGN LOADS AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN CRITERIA OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL

Wallace Engineering Structural Consultants, Inc

> ructural and Civil Consultant 123 N. Martin Luther King Jr. Blvd. Tulsa, Oklahoma 74103 918.584.5858, 800.364.5858

PROJECT INFO CLIENT: COVENANT GROUP, LLC **PROJECT**

BUILDING SHELL - LEE'S SUMMIT MO - CHIPMAN RD **ADDRESS**

400 NW CHIPMAN RD LEE'S SUMMIT, MO 64806

PROJECT NO:

MAIN CONTACT

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DEVELOPER

SHEET INFO ISSUE DATE: 03/31/2022

ISSUED FOR:PERMIT SET REVISION SCHEDULE

NO DESCRIPTION DATE

GRANICH

NUMBER _PE-2014023909 Missouri COA #001268

GENERAL NOTES

ASSUME EQUAL SPACING IF NOT INDICATED IN CONTRACT DOCUMENTS. ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED

AND CONSTRUCTED TO RESIST SEISMIC FORCES AS DETERMINED IN CHAPTER 13 OF ASCE 7. REFERENCE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING PARTITION FRAMING. CONNECTION OF NON-LOAD BEARING PARTITION FRAMING TO THE PRIMARY STRUCTURE SHALL ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF THE FLOOR AND ROOF FRAMING.

CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, OPENING, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONSTRUCTION.

FOUNDATIONS

FOUNDATION DESIGNS AND SUBGRADE PREPARATION NOTES ARE BASED ON THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT NUMBER 22-5193, BY: CFS ENGINEERING, LLC.DATED: 03/21/2022

FOOTING DESIGNS ARE BASED ON A NET [MAX] ALLOWABLE SOIL BEARING CAPACITY OF 2500 PSF. CONTRACTOR AND TESTING LABORATORY REPRESENTATIVE SHALL READ THE GEOTECHNICAL REPORT AND BECOME THOROUGHLY FAMILIAR WITH SITE AND SUBGRADE INFORMATION GIVEN THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION. SUBGRADE SHALL BE PREPARED AS NOTED IN THE STRUCTURAL EARTH MOVING SPECIFICATION.

A QUALIFIED AND REGISTERED GEOTECHNICAL ENGINEER, LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND WORKING FOR THE TESTING LABORATORY, SHALL DETERMINE CONFORMANCE OF THE FOUNDATION BEARING STRATA WITH THE FOUNDATION DESIGN CRITERIA ABOVE, AND ALL OTHER CONTRACT DOCUMENTS. TESTING LABORATORY SHALL NOTIFY CONTRACTOR, ARCHITECT AND ENGINEER-OF-RECORD OF ANY CONDITIONS NOT IN ACCORDANCE WITH FOUNDATION DESIGN CRITERIA OR CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION.

AVOID DAMAGE TO UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER MAINS, SANITARY SEWERS AND BURIED CABLES WHICH MIGHT EXTEND ACROSS OR ADJOIN SITE.

CONCRETE

1.8 PSF

3.2 PSF

6.0 PSF

1.0 PSF

2.0 PSF

ACTUAL WEIGHT

20 PSF / 300 LB

14 PSF

20 PSF

20 PSF

14 PSF

109 MPH

+/- 0.18

MINIMUM COMPRESSIVE STRENGTH (fc) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:

A. FOOTINGS 4500 PSI 3000 PSI B. INTERIOR SLABS-ON-GRADE

MAXIMUM WATER/CEMENT RATIOS SHALL BE 0.45. CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE EXTERIOR CONCRETE AND CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL BE AIR-ENTRAINED WITH 6% (±1.5%) ENTRAINED AIR BY VOLUME. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED

FLOOR TO EXCEED 3%. MATERIALS OR ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE.

REINFORCING STEEL SHALL MEET THE FOLLOWING:

ASTM SPECIFICATION A615, GRADE 60 A. DEFORMED BARS A706, GRADE 60 B. WELDABLE DEFORMED BARS C. WELDED WIRE REINFORCEMENT A1064

PROVIDE MINIMUM CONCRETE CLEAR COVER FOR REINFORCEMENT PER ACI 318, UNLESS NOTED

WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE AND ANSI / AWS D1.4 "STRUCTURAL WELDING CODE FOR REINFORCING STEEL" LATEST REVISION. ELECTRODES FOR DEFORMED BAR ANCHORS SHALL BE 90 KSI, LOW HYDROGEN.

WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING STEEL SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.

"C.J." INDICATES SAW CUT CONTRACTION JOINT OR DOWELED CONSTRUCTION JOINT IN SLAB-ON-GRADE. REFERENCE CAST-IN-PLACE CONCRETE SPECIFICATION FOR ACCEPTED SAW CUT METHODS. SLAB POURS SHALL BE SEPARATED BY A DOWELED CONSTRUCTION JOINT. CONTRACTION/CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER-OF-RECORD.

PROVIDE CORNER BARS THAT MATCH AND LAP CONTINUOUS REINFORCEMENT SIZE AND QUANTITY AT INTERSECTIONS AND CORNERS OF WALLS AND FOUNDATIONS.

ANCHOR BOLTS AND EMBED PLATES SHALL BE TIED INTO THE REINFORCING STEEL CAGE AND HELD IN PLACE WITH A RIGID TEMPLATE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRESS (Fy):

| | (.)/. |
|------------------|---------------------------|
| YIELD | ASTM SPECIFICATION |
| 36 KSI | A36 |
| 50 KSI | A500, GRADE C |
| 36 KSI, WELDABLE | F1554 |
| | YIELD 36 KSI 50 KSI |

BOLTS FOR STEEL BEAM AND COLUMN CONNECTIONS SHALL BE 3/4-INCH DIAMETER (MIN.) ASTM F3125, GRADE A325-N HIGH-STRENGTH BOLTS UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS. ALL BOLTED JOINTS SHALL BE SNUG TIGHT UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS. FOR PRETENSIONED OR SLIP-CRITICAL JOINTS, THE METHOD OF INSTALLATION SHALL BE TURN-OF-NUT WITH MATCH MARKING, TWIST-OFF-TYPE TENSION CONTROL BOLT ASSEMBLIES (ASTM F3125, GRADE

F1852), OR DIRECT TENSION INDICATORS (ASTM F959). WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE LATEST REVISION. ELECTRODES SHALL BE 70 KSI, LOW HYDROGEN.

WELDS NOT SPECIFICALLY SIZED ON THE STRUCTURAL DRAWINGS SHALL BE THE MINIMUM SIZE PER THE LATEST AWS D1.1.

PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION. PROVIDE 1 1/2 INCH NON-SHRINK GROUT UNDER BASE PLATE AFTER ERECTION. USE 2 1/2 INCH NON-SHRINK GROUT WHEN COLUMN ANCHOR BOLTS ARE 1 1/4 INCH DIAMETER OR LARGER. NON-SHRINK GROUT SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.

LEDGER ANGLES AND LINTELS IN EXTERIOR WALL SYSTEMS SHALL BE HOT DIP GALVANIZED PER ASTM

ALL CONNECTIONS NOT FULLY DETAILED IN THE CONTRACT DOCUMENTS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONNECTION DESIGN ENGINEER SHALL BE EMPLOYED OR RETAINED BY THE STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL SHOWN IN THE CONTRACT DOCUMENTS. THESE COSTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, MISCELLANEOUS STEEL ITEMS SHOWN ON THE STRUCTURAL, ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND IN THE SPECIFICATIONS.

AT ALL GALVANIZED OR PAINTED STEEL MEMBERS WITH FIELD WELDED CONNECTIONS, REMOVE GALVANIZING, PAINT OR PRIMER PRIOR TO FIELD WELDING AS REQUIRED. AFTER WELDING IS COMPLETE AND INSPECTOR APPROVED, PREPARE AND REPAINT THE FRAMING SURFACES.

WOOD FRAMING

WOOD FRAMING SHALL MEET THE NDS MINIMUM STRESS PROPERTIES UNLESS NOTED OTHERWISE IN

CONTRACT DOCUMENTS A. DOUGLAS FIR SOUTH #2 OR BETTER, PER THE NDS

B. GLULAM BEAMS: 24F-V4 DF/DF, PER THE NDS 1. E = 1,800,000 PSI C. LAMINATED VENEER LUMBER (LVL):

1. Fb = 2,600 PSI 2. Ft = 1,555 PSI . 3. Fc = 2,510 PSI (PARALLEL TO GRAIN)

4. Fc = 750 PSI (PERPENDICULAR TO GRAIN) 5. Fv = 285 PSI (PARALLEL TO GRAIN)

6. E = 2.000.000 PSI

PROVIDE SIMPSON STRONG-TIE CONNECTORS OR EQUIVALENT FOR WOOD FRAMING CONNECTING TO SUPPORTING MEMBERS. INSTALL WITH MANUFACTURER'S SPECIFIED FASTENERS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. SUBSTITUTION REQUESTS FOR CONNECTORS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS AS REQUIRED BY THE BUILDING CODE.

ALL ROOF, FLOOR AND EXTERIOR WALL SHEATHING SHALL BE APA RATED EXPOSURE 1 SHEATHING [U.N.O.] AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY.

INSTALL ROOF AND FLOOR SHEATHING WITH THE LONG DIMENSION OF THE PANEL PERPENDICULAR TO SUPPORTS UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS, AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER END JOINTS, UNLESS NOTED OTHERWISE. SPACE PANELS 1/8" APART AT EDGES AND ENDS ALL ROOF SHEATHING SHALL HAVE A MINIMUM THICKNESS OF 15/32 INCH WITH A SPAN RATING OF AT

LEAST 32/16 AND BE FASTENED TO ROOF FRAMING NAILED WITH 8d GALVANIZED COMMON NAILS AT 6" O.C. AT PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. 8d COMMON NAILS SHALL HAVE A MINIMUM 0.131 INCH DIAMETER AND 1 3/8 INCH MINIMUM PENETRATION INTO SUPPORTING FRAMING. ALL EXTERIOR WALL SHEATHING SHALL HAVE A MINIMUM THICKNESS OF 5/16 INCH AND BE FASTENED

TO WALL STUDS WITH 6d GALVANIZED COMMON NAILS AT 6 INCHES ON CENTER AT EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. [PROVIDE BLOCKING AT UNSUPPORTED PANEL EDGES]. 6d COMMON NAILS SHALL HAVE A MINIMUM 0.113 INCH DIAMETER AND 1 1/4 INCH MINIMUM PENETRATION INTO SUPPORTING FRAMING.

INSTALL ALL JOISTS, RAFTERS, HEADERS AND BEAMS CROWN UP.

REFERENCE DETAILS FOR CUTTING, BORING OR NOTCHING OF FRAMING MEMBERS, WALL STUDS AND TOP PLATES. FASTEN PLIES OF ENGINEERED WOOD PRODUCTS TOGETHER PER THE MANUFACTURER'S RECOMMENDATIONS OR AS DETAILED IN THE CONSTRUCTION DOCUMENTS. REFERENCE BUILT-UP COLUMN AND BEAM DETAILS FOR NAILED BUILT-UP COLUMN AND BEAM REQUIREMENTS. SPLICES IN

MULTIPLE BUILT-UP MEMBERS ARE NOT PERMITTED, U.N.O. PROVIDE SLIP CONNECTION AT TOP OF ALL NON-LOAD BEARING WALLS TO ALLOW FOR 1 1/2" DEFLECTION OF FRAMING ABOVE.

ALL WOOD IN CONTACT WITH CONCRETE AND EXTERIOR MASONRY SHALL BE PRESERVATIVE

GALVANIZED (G90). NAILING SHALL COMPLY WITH REQUIREMENTS OF NAILING SCHEDULE UNLESS NOTED OTHERWISE IN

ALL NAILS SHOWN ON PLAN ARE 'COMMON', UNLESS NOTED OTHERWISE. REFERENCE NAIL SIZE SCHEDULE FOR REQUIRED COMMON NAIL SIZES.

SHOP-FABRICATED WOOD TRUSSES

SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST REVISION OF THE AF&PA N.D.S. TRUSSES SHALL CONFORM TO THE SPACING, DIMENSIONS AND CONFIGURATIONS SPECIFIED IN THESE NOTES AND ON THE PLANS AND SHALL BE DESIGNED FOR ALL SPECIFIED LOADS. FRAMING PLANS INDICATE THE REQUIRED BASIC TRUSS LAYOUT. SIGNIFICANT DEVIATIONS FROM THESE PLANS WILL NOT BE PERMITTED

TRUSS MANUFACTURER SHALL SUBMIT STRUCTURAL CALCULATIONS AND SHOP DRAWINGS, INCLUDING AN ERECTION DRAWING SHOWING TRUSS LAYOUT PREPARED AS NOTED IN THE

A. TOP CHORD

. 1. ROOF LIVE LOAD = 20 PSF

. 3. SNOW LOAD = JOIST LOADING DIAGRAMS

1. DEAD LOAD = 8 PSF

D. WIND LOADS = RE: DESIGN PARAMETERS

F. REFERENCE PLANS AND DETAILS FOR ADDITIONAL DESIGN LOADS OR SHEAR TRUSS/BLOCKING REQUIREMENTS

TRUSSES AND CONNECTOR PLATES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST REVISION OF ANSI/TPI 1: NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.

TRUSS BEARING POINTS SHALL BE PINNED FOR THE DESIGN OF THE TRUSSES

CONNECTIONS, U.N.O. ON THE DETAILS. PROPER ERECTION BRACING SHALL BE INSTALLED TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING HAVE BEEN INSTALLED TO FORM A STRUCTURALLY SOUND FRAMING SYSTEM. ALL ERECTION AND PERMANENT BRACING SHALL BE

INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES. ALL BRACING SHALL BE DESIGNED BY MANUFACTURER AND INDICATED ON THE BUILDING COMPONENT SAFETY INFORMATION (BCSI), "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES".

REFERENCE ARCH. AND MECH. DRAWINGS FOR DUCT LAYOUT. PROVIDE CHASES IN TRUSSES TO ACCOMODATE DUCTS AS REQUIRED. DO NOT CUT, NOTCH OR OTHERWISE ALTER THE TRUSSES WITHOUT WRITTEN PERMISSION FROM THE

FABRICATOR AND THE STRUCTURAL ENGINEER OR RECORD.

ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST INSTALLED ANCHORS IN PLACE OF MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE EOR PRIOR TO

THE CONTRACTOR SHALL SUBMIT PRODUCT DATA WITH DESIGN VALUES AND PHYSICAL PROPERTIES FOR ALL POST INSTALLED ANCHORS. ADDITIONALLY, THE CONTRACTOR SHALL SUBMIT CERTIFIED ICC

SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS AS REQUIRED BY THE BUILDING

ALL HOLES SHALL BE DRILLED, DRY AND CLEANED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE PER ANCHOR MANUFACTURER'S WRITTEN SPECIFICATIONS. THE LATEST VERSION OF THE WRITTEN SPECIFICATION SHALL BE ON-SITE AND FOLLOWED DURING THE INSTALLATION OF THE ANCHORS.

LOAD BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN FULLY INSTALLED INTO THE HOLE PER MANUFACTURER'S SPECIFICATIONS. ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.

CONTRACTOR SHALL FOLLOW THE LATEST VERSION OF MANUFACTURER'S SPECIFICATION DURING INSTALLATION OF ANCHORS.

OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED BY PERSONNEL CERTIFIED BY THE ACI/CRSI

EFFECTIVE WIND EFFECTIVE WIND ARFA ARFA ≤10 SQ. FT. |≥500 SQ. ≤10 SQ. FT. |≥500 SQ. I -41.3 PSF | -32.3 PSF ZONE 4 -25.7 PSF | -19.8 PSF -23.7 PSF | -23.7 PSF ZONE 5 -31.6 PSF | -19.8 PSF -54.5 PSF | -42.9 PSF ZONE 4 & 5 | 23.7 PSF | 17.8 PSF -74.3 PSF | -51.0 PSF ZONE 1, 2 & 3 | 16.0 PSF | 16.0 PSF 1. RE: ASCE 7-16 FIGURES 30.3-1 AND 30.3-2A REFER TO CODE FOR EFFECTIVE TRIBUTARY AREAS NOT LISTED POSITIVE VALUES SIGNIFY PRESSURES ACTING TOWARD THE NOTED SURFACE AND NEGATIVE VALUES SIGNIFY PRESSURES ACTING AWAY FOR THE NOTED SURFACE 3.0 FT EARTHQUAKE DESIGN DATA A. SEISMIC IMPORTANCE FACTOR, le B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, Ss 10.6% C. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S1 6.3% E. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sds 11.3% 10.1% F. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sd1 G. SEISMIC DESIGN CATEGORY **BUILDING FRAME** 1.) VERTICAL ELEMENT TYPE SYSTEM LIGHT FRAME 2.) BASIC SEISMIC FORCE-RESISTING SYSTEM TYPE (WOOD WALLS) WITH SHEAR PANELS - WOOD 3.) RESPONSE MODIFICATION FACTOR, R 6.5 4.) SEISMIC RESPONSE COEFFICIENT, Cs 0.016 5.) DESIGN BASE SHEAR, 1.0E 3.2k **EQUIVALENT** LATERAL FORCE

WALL PRESSURES (1.0W)

GENERAL NOTES

GENERAL

STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF

CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.

THE STRUCTURE HAS BEEN DESIGNED FOR THE INDICATED LOADS ONLY. USE OF HEAVY EQUIPMENT AND SCAFFOLDING, OR STORAGE OF MATERIALS THAT TRANSFER EXCESSIVE LOADS TO THE STRUCTURE SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE CALCULATIONS SIGN AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO VERIFY THE ADEQUACY OF THE STRUCTURE FOR ALL APPLIED CONSTRUCTION LOADS THAT EXCEED THE LOADS INDICATED IN THE CONSTRUCTION DOCUMENTS AND SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER-OF-RECORD PRIOR TO ANY CONSTRUCTION

THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUCTION WITH THE CONTRACT DRAWINGS. WHERE REQUIREMENTS INDICATED ON THE CONTRACT DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY THE ARCHITECT AND THE ENGINEER-OF-RECORD.

STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE

CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK. ALL WELDS SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (A.W.S) SPECIFICATIONS.

THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND THE ENGINEER-OF-RECORD. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENING LOCATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

USE ONLY DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT SCALE CONTRACT

DOCUMENTS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES. CONTRACTOR

SHALL COORDINATE IN-PLACE DIMENSIONS BASED ON TOLERANCES OF THE RESPECTIVE TRADES.

ALL STEEL CONNECTORS AND FASTENERS USED WITH PRESERVATIVE TREATED WOOD SHALL BE CONTRACT DOCUMENTS

ALL TRUSSES SHALL BE PRE-ENGINEERED AND SHOP FABRICATED. TRUSSES AND CONNECTIONS

DEFERERED SUBMITTAL NOTE.

ROOF TRUSS DESIGN LOADS (ASD):

. 2. DEAD LOAD = 9 PSF

B. BOTTOM CHORD

. 2. LIVE LOAD = AS REQUIRED PER GOVERNING BUILDING CODE

C. SELF WEIGHT OF THE TRUSSES SHALL BE ADDED TO THE ABOVE LOADS.

E. ROOF TRUSS SHALL BE DESIGNED TO LIMIT THE MAXIMUM LIVE LOAD DEFLECTION TO SPAN/240 AND MAXIMUM TOTAL LOAD DEFLECTION TO SPAN/180

TRUSS TOP CHORD SHALL BE DOUGLAS FIR SOUTH OR SOUTHERN PINE. TRUSSES SHALL BE FABRICATED WITH MINIMUM 20 GAUGE TRUSS PLATES HAVING A MINIMUM WOOD

PENETRATION OF 0.37 INCH.

CEILINGS WILL NOT BRACE BOTTOM CHORDS, TRUSS MANUFACTURER SHALL DESIGN PERMANENT BOTTOM CHORD BRIDGING TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. TRUSS DESIGNER SHALL DESIGN AND SPECIFY THE TRUSS TO TRUSS AND THE TRUSS TO SUPPORT

SHOP DRAWINGS. ALL PREFABRICATED WOOD TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH

TRUSS MANUFACTURER SHALL ARRANGE TRUSS WEB MEMBERS AS REQUIRED BY DESIGN.

POST INSTALLED ANCHORS

COMPLETION OF WORK.

ES OR ESR REPORTS WHICH VERIFY COMPLIANCE WITH THE SPECIFIED CRITERIA.

THE ANCHOR EMBEDMENT DEPTH SHALL BE DEFINED AS THE DEPTH FROM THE SURFACE FACE OF THE

ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

| | | FREQUENCY OF | INSPECTIO |
|-----|---|--|-----------|
| | | CONTINUOUS | PERIODIC |
| • | | | |
| STE | EEL CONSTRUCTION - STRUCTURAL STEEL (IBC SECTION 1705.2.1) | т т | |
| | SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360-16. | | |
| | | | |
| CO | NCRETE CONSTRUCTION (IBC TABLE 1705.3) | | |
| | INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT. REINFORCING BAR WELDING: | | X |
| A. | VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; | | X |
| В. | INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND | | X |
| C. | INSPECT ALL OTHER WELDS | Х | |
| | INSPECT ANCHORS CAST IN CONCRETE. | | Х |
| | INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. (a) | | |
| A. | ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. | Х | |
| B. | MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4 A. | | X |
| | VERIFY USE OF REQUIRED DESIGN MIX. | | X |
| | PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | X | |
| | INSPECT CONCRETE AND SHOTCRETE PLACEMENT OF PROPER APPLICATION TECHNIQUES. | X | |
| | VERIFY MAINTENANCE OF SPECIFIED CUREING TEMPERATURE AND TECHNIQUES. | | X |
| | INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | | X |
| | a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, CONTACT THE STRUCTURAL ENGINEER-OF-RECORD FOR SPECIAL INSPECTION REQUIREMENTS. | | |
| WO. | AOD CONSTRUCTION IDC SECTION 1705 5 | | |
| T | OOD CONSTRUCTION - IBC SECTION 1705.5 SPECIAL INSPECTION OF THE FABRICATION PROCESS OF PREFABRICATED WOOD STRUCTURAL ELEMENTS AND | Ι Ι | |
| | ASSEMBLIES SHALL BE IN ACCORDANCE WITH SECTION 1704.2.5. SPECIAL INSPECTION OF SITE BUILT ASSEMBLIES SHALL BE IN ACCORDANCE WITH SECTION 1705.5 | | |
| | INSPECTION OF WOOD STRUCTURAL PANEL SHEATHING GRADE AND THICKNESS. | | Χ |
| | VERIFICATION OF THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES AGREES WITH THE APPROVED CONSTRUCTION DOCUMENTS. (required at wood high load diaphragms designed in accordance with 2306.2.) | | Х |
| | VERIFICATION OF THE NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES AND THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS AGREES WITH THE APPROVED CONSTRUCTION DOCUMENTS. | | Х |
| | VERIFICATION THAT THE INSTALLATION OF THE PERMANENT INDIVIDUAL TRUSS RESTRAINT/BACKING HAS BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE FOR WOOD TRUSSES WITH OVERALL HEIGHTS OF 60 INCHES OR GREATER. | | Х |
| | VERIFICATION THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE AT METAL-PLATE-CONNECTED WOOD TRUSSES WITH A CLEAR SPAN OF 60'-0" OR GREATER. | | Х |
| so | ILS (IBC TABLE 1705.6) | | |
| | | | |
| | VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | | Х |
| | VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | | Х |
| | PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. | | X |
| | VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. | X | |
| | PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | | X |
| | ** CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN | | |
| | AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED. | | |
| | ** PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED. | | |

AISC 360-16 SPECIAL INSPECTION REQUIREMENTS

- 1. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
- 2. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS. 3. NONDESTRUCTIVE TESTIING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE (QA).
- 4. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS AS LISTED IN SECTION N3.2 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
- 5. FOR WORK PERFORMED BY APPROVED FABRICATORS AND ERECTORS:
- A. QA INSPECTIONS, MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA.
- FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS. C. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE

B. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE

MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. D AT COMPLETION OF ERECTION THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS

| D. AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIA |
|---|
| SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. |
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| | | IPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. | | |
|----------------------------|----------|--|---------------------|----------------------|
| | • | AISC 360-16, CHAPTER N SPECIAL INSPECTION REQUIR | | |
| | | | FREQUENCY O PERFORM | F INSPECTION OBSERVE |
| N5.4 | | NSPECTION OF WELDING | | |
| 1. | | AISC 360-16, TABLE N5.4-1 - INSPECTION TASKS PRIOR TO WELDING WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS | | Х |
| | | WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE | X | |
| 2. 3. 4. 5. 6. | | MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE MATERIAL IDENTIFICATION (TYPE/GRADE) | | X |
| 5. | | WELDER IDENTIFICATION SYSTEM (a) | | Х |
| 6. | A. | FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) JOINT PREPARATION | | X |
| | | DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) | | Х |
| | | CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) | | X |
| | E. | BACKING TYPE AND FIT (IF APPLICABLE) | | X |
| 7. | | FIT-UP OF CJP GROOVE WELDS OF HSS, T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) JOINT PREPARATIONS | | X |
| | B. | DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) | | Х |
| - | | CLEANLINESS (CONDITION OF STEEL SURFACES). TACKING (TACK WELD QUALITY AND LOCATION) | | X |
| 8. | | CONFIGURATION AND FINISH OF ACCESS HOLES | | X |
| 9. | | FIT-UP OF FILLET WELDS DIMENSIONS (ALIGNMENT, GAPS AT ROOT) | | Х |
| | | CLEANLINESS (CONDITION OF STEEL SURFACES) | | X |
| | C. | TACKING (TACK WELD QUALITY AND LOCATION) | | Х |
| | Α | AISC 360-16, TABLE N5.4-2 - INSPECTIONS DURING WELDING | | |
| 1. | | CONTROL AND HANDLING OF WELDING CONSUMABLES | | V |
| \vdash | | PACKAGING EXPOSURE CONTROL | | X |
| 2. | | NO WELDING OVER CRACKED TACK WELDS | | Х |
| 3. | A | ENVIRONMENTAL CONDITIONS WIND SPEED WITHIN LIMITS | | X |
| | В. | PRECIPITATION AND TEMPERATURE | | X |
| 4. | | WELDING PROCEDURE SPECIFICATION (WPS) FOLLOWED SETTINGS ON WELDING EQUIPMENT | | X |
| | B. | TRAVEL SPEED | | X |
| | | SELECTED WELDING MATERIALS SHIELDING GAS TYPE / FLOW RATE | | X |
| | | PREHEAT APPLIED | | X |
| | | INTERPASS TEMPERTURE MAINTAINED (MIN./MAX.) | | X |
| 5. | | PROPER POSITION (F, V, H, OH) WELDING TECHNIQUES | | Х |
| | A. | INTERPASS AND FINAL CLEANING | | Х |
| | | EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS | | X |
| 6. | | PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS | Х | |
| | Δ | AISC 360-16, TABLE N5.4-3 - INSPECTION TASKS AFTER WELDING | | |
| 1. | | WELDS CLEANED | | Х |
| 2. 3. | | SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA | Х | |
| J. | | CRACK PROHIBITION | Х | |
| | | WELD/BASE-METAL FUSION CRATER CROSS SECTION | X | |
| | | WELD PROFILES | X | |
| | | WELD SIZE | X | |
| | | UNDERCUT POROSITY | X | |
| 4. | | ARC STRIKES | Х | |
| 4. 5. 6. 7. | | k-AREA (b) WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES (c) | X | |
| | | BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) | X | |
| 8. 9. | | REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER | X | |
| 10. | | NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR. | | X |
| 11. | | ULTRASONIC TESTING (UT) ON ALL CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16 INCH THICK OR GREATER (required in Risk Catgory III or IV) | X | |
| 12. | \vdash | ULTRASONIC TESTING (UT) ON 10% OF CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16 | | Х |
| 13. | _ | INCH THICK OR GREATER (required in Risk Catgory II) THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED USING MAGNETIC PARTICLE TESTING (MT) OR | X | |
| | | PENETRANT TESTING (PT), WHEN FLANGE THICKNESS EXCEEDS 2 INCHES FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 INCHES FOR BUILT-UP SHAPES | , | |
| 14. | | (see AISC 360-16, section N5-5c for additional special inspections for welded joints subject to fatigue) | | |
| | () | THE FARRICATOR OR EDECTOR AS ARRIVANDE CHAIL MAINTAIN A CVOTEM RYWING HAVE DER WHICH A | | |
| | (a) | THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW STRESS TYPE. | | |
| | | WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD. | | |
| | | AFTER ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES HAVE BEEN WELDED, VISUALLY INSPECT THE WELD | | |
| | | ACCESS HOLE PER CRACKS. | | |
| | | ** PERFORM - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER. | | |
| | | ** OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. | | |
| | | | ı | 1 |
| N5.0 | | NSPECTION OF HIGH-STRENGTH BOLTS NISC 360-16, TABLE N5.6-1 - INSPECTION TASKS PRIOR TO BOLTING | | |
| 1. | | MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS | Х | |
| 2. 3. | | FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS | | X X |
| | L | CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH) IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE | | |
| 4. 5. | | CORRECT BOLTING PROCEDURES SELECTED FOR JOINT DETAIL CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, | | X |
| | | IF SPECIFIED, MEET APPLICABLE REQUIREMENTS | _ | |
| 6. | | PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED | X | X |
| 7. | | PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS | | Х |
| | | | | |



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| 1. 2. 3. 4. | AISC 360-16, TABLE N5.6-2 - INSPECTIONS DURING BOLTING FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES AISC 360-16, TABLE N5.6-3 - INSPECTIONS AFTER BOLTING | PERFORM | X X X X |
|-------------------------|---|---------|------------------|
| 1. 2. 3. 4. | FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | | X X |
| 3. | JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | | X X |
| 3. | FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | | Х |
| 4. | FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | | |
| | SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | | |
| | | | |
| <i>F</i> | VISC 360-16 TABLE N5 6-3 - INSPECTIONS AFTER BOLTING | | |
| <i>,</i> / | NISC 360-16. TARLE N5 6-3 - INSPECTIONS AFTER BOLTING | | |
| 1. | | | |
| - | DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS | X | |
| | | | |
| | ** PERFORM - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. | | |
| | ** OBSERVE - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. | | |
| | MAIN MEMBERS AND EXPOSED CORNERS OF HSS SHALL BE VISUALLY INSPECTED FOR CRACKS SUBSEQUENT TO GALVANIZING. | | |
| \ 5.8 - (| OTHER INSPECTION TASKS | | |
| 1. | INSPECT THE STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS. | X | |
| 2. | INSPECT THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR | Х | |
| I | COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE DIAMETER, GRADE, TYPE AND LENGTH OF THE | | |
| ے. | | | 1 |
| | ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE | 1 | |
| | | | |
| - | ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED AND DOCUMENTED PRIOR TO PLACEMENT OF CONCRETE | | |
| | ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE | | |
| 1. | INSPECT THE STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS. INSPECT THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR | X X | |



| PROJECT | INF |
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CLIENT: COVENANT GROUP, LLC

PROJECT:

BUILDING SHELL - LEE'S SUMMIT, MO - CHIPMAN RD

ADDRESS: 400 NW CHIPMAN RD LEE'S SUMMIT, MO 64806

PROJECT NO:

MAIN CONTACT

CHRISTOPHER CLARK, AIA, NCARB 7701 E KELLOGG DR, STE 630 WICHITA, KS 67207 (316) 302-4472 chris@clarkitecture.net

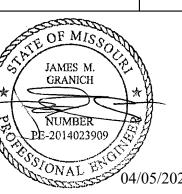
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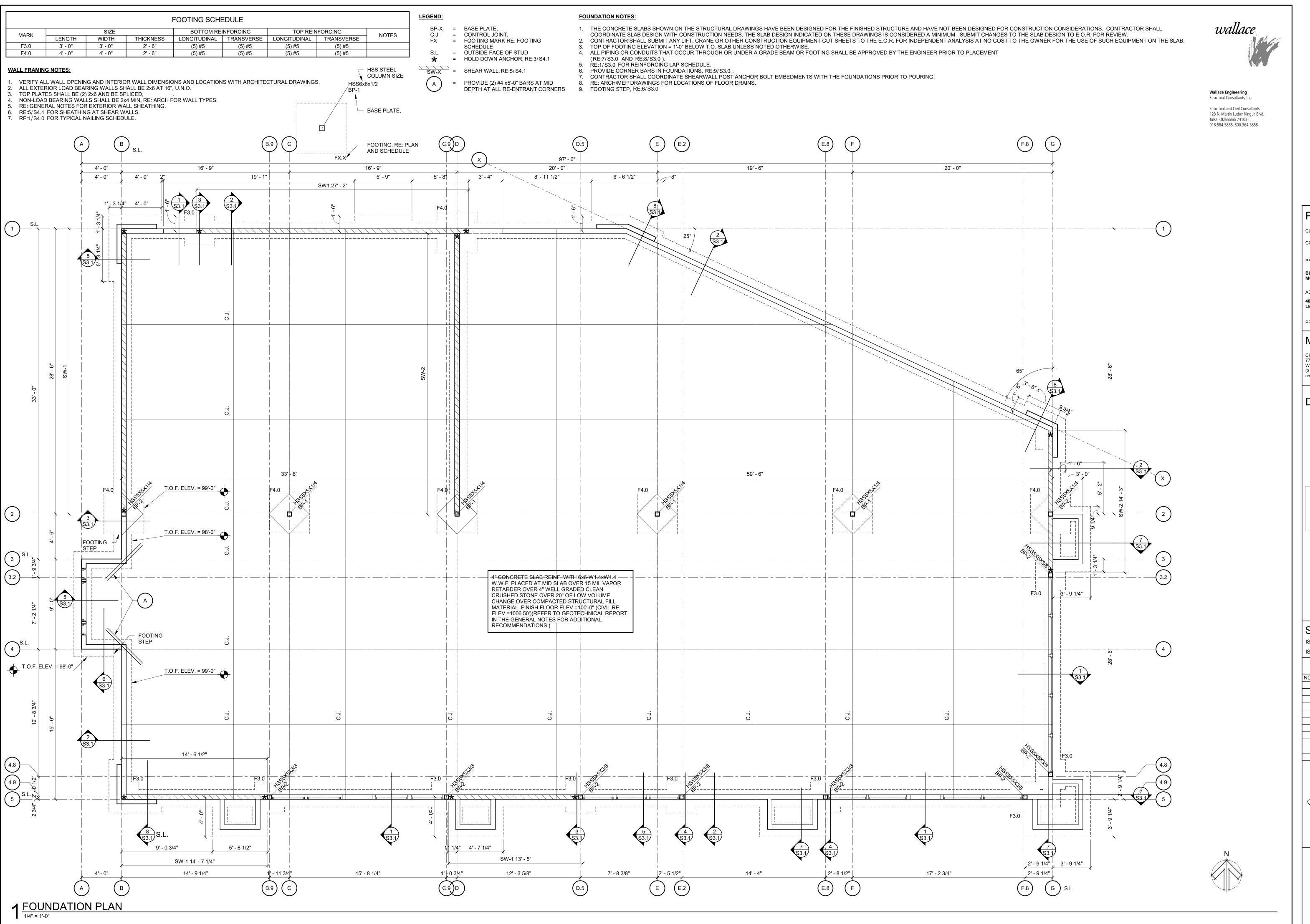
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Missouri COA #001268

STRUCTURAL SPECIAL INSPECTIONS (IBC 2018)



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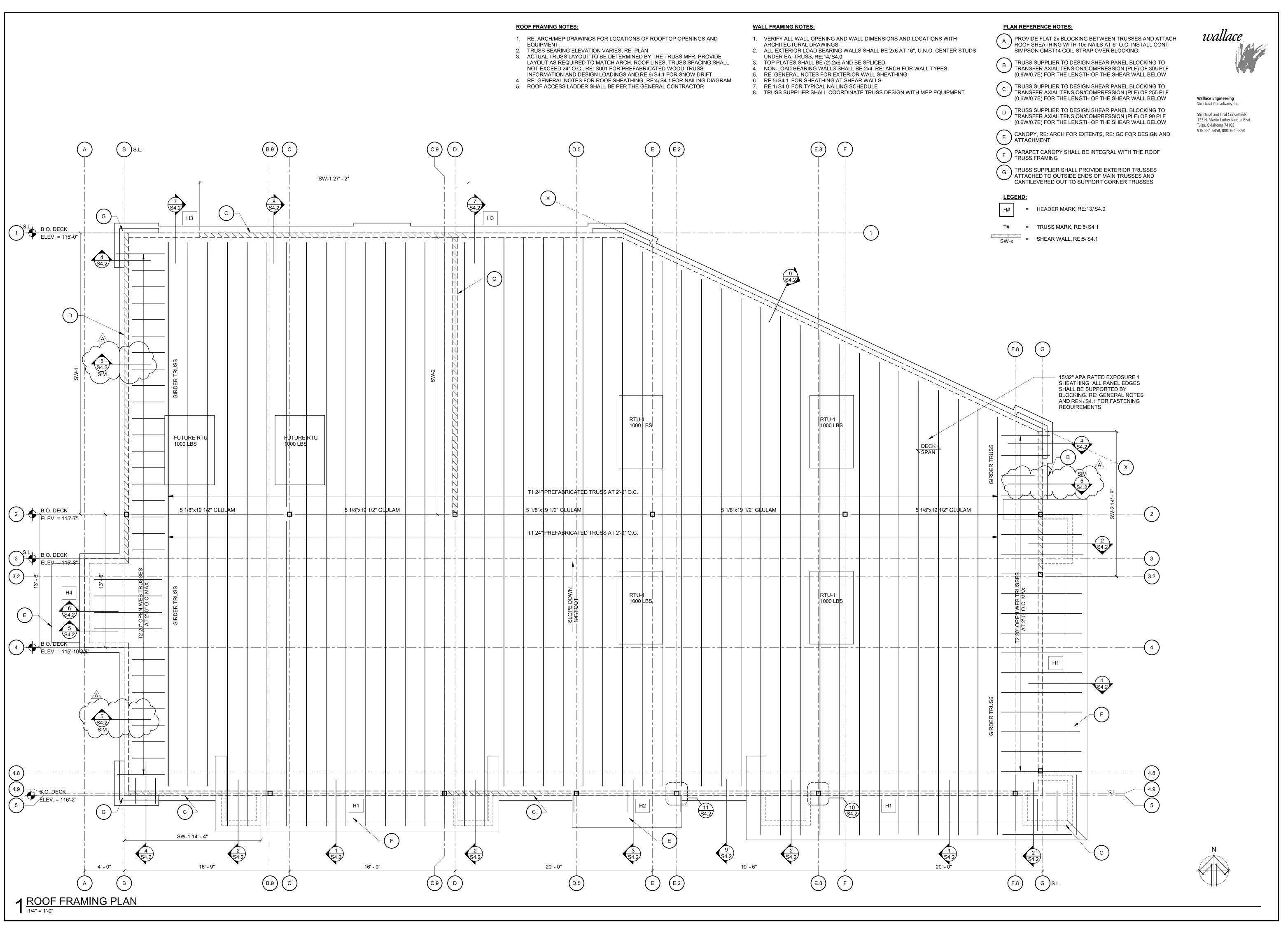
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PROJECT INFO CLIENT: COVENANT GROUP, LLC PROJECT: BUILDING SHELL - LEE'S SUMMIT, MO - CHIPMAN RD ADDRESS: 400 NW CHIPMAN RD LEE'S SUMMIT, MO 64806 PROJECT NO: MAIN CONTACT CHRISTOPHER CLARK, AIA, NCARB 7701 E KELLOGG DR, STE 630 WICHITA, KS 67207 (316) 302-4472 chris@clarkitecture.net DEVELOPER SHEET INFO ISSUE DATE : 03/31/2022 ISSUED FOR:PERMIT SET REVISION SCHEDULE NO DESCRIPTION DATE

> FOUNDATION PLAN

Missouri COA #001268

S1.0





PROJECT INFO

CLIENT: COVENANT GROUP, LLC

PROJECT:

BUILDING SHELL - LEE'S SUMMIT, MO - CHIPMAN RD

ADDRESS: 400 NW CHIPMAN RD LEE'S SUMMIT, MO 64806

PROJECT NO:

MAIN CONTACT

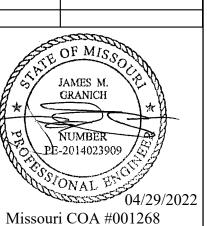
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DEVELOPER

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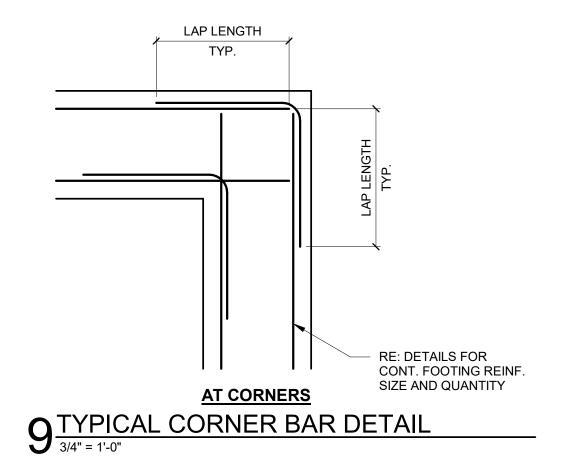


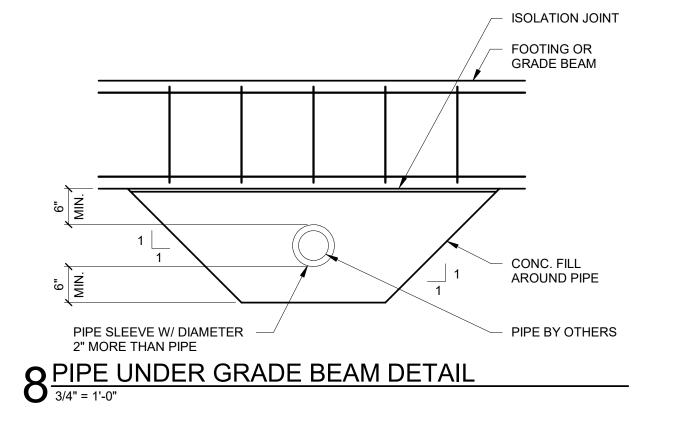
FRAMING PLAN

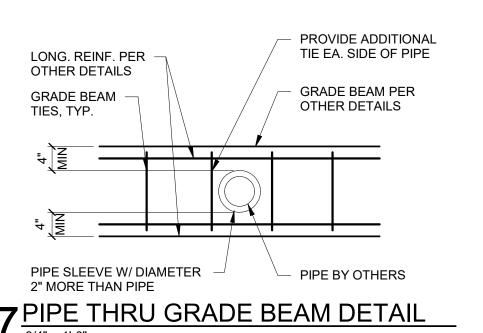
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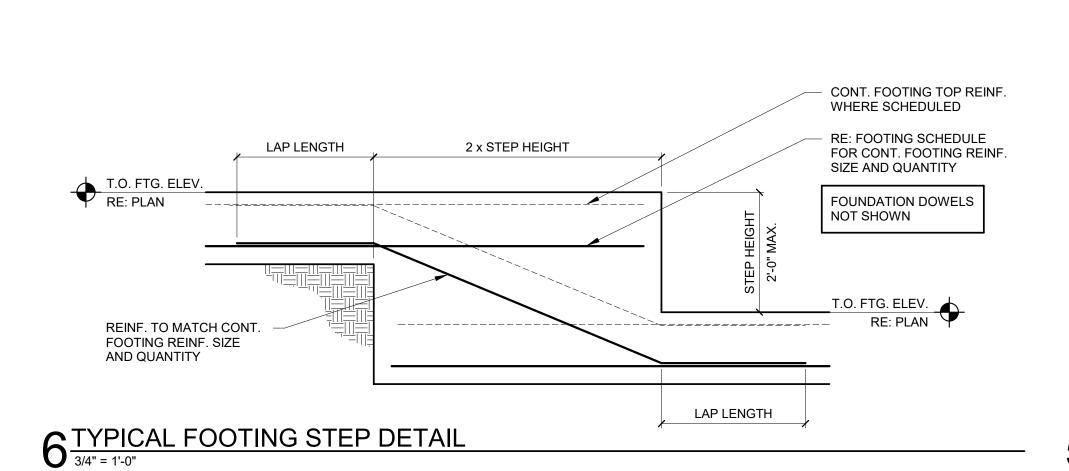
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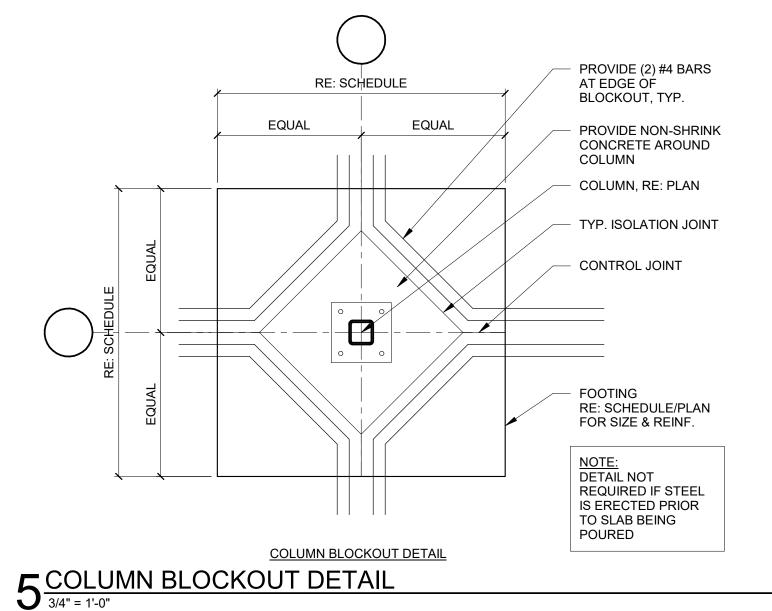


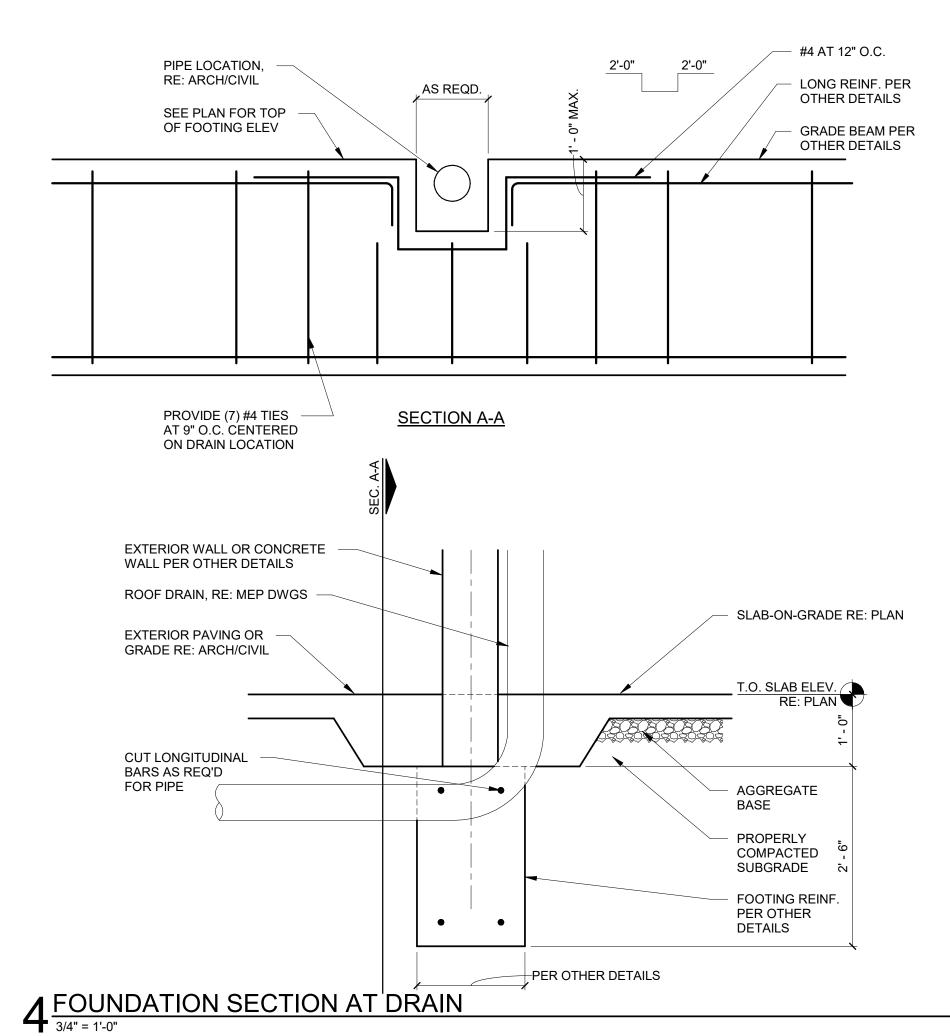


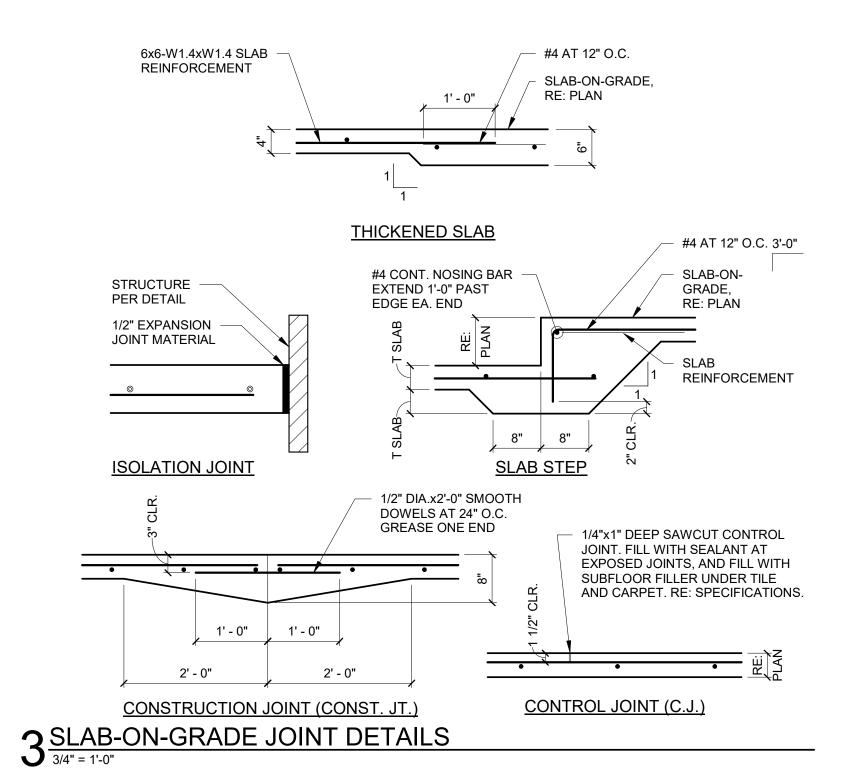


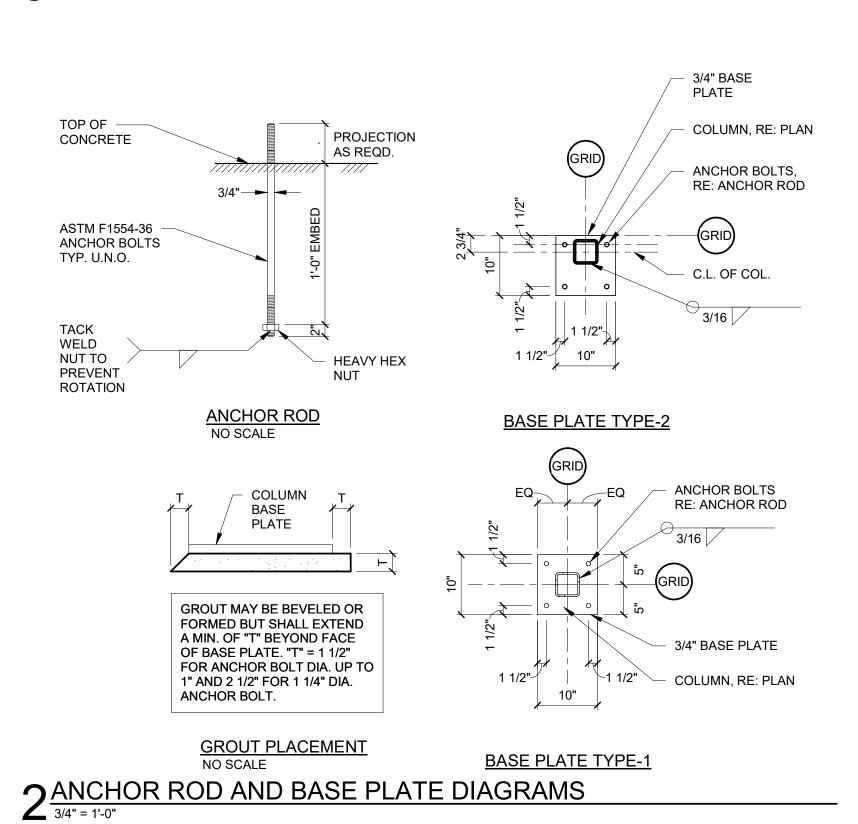
7 PIPE THRU GRADE BEAM DETAIL
3/4" = 1'-0"

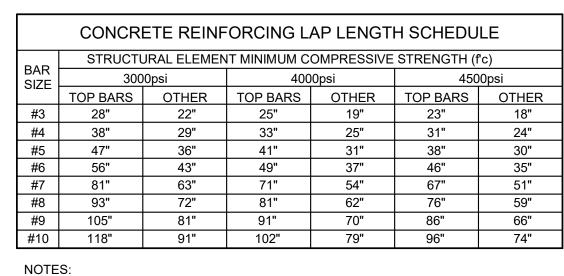












1. LAP LENGTH FOR TOP BARS SHALL BE USED WHEN MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW HORIZONTAL REINFORCEMENT. 1 CONCRETE REINFORCING LAP SCHEDULE

3/4" = 1'-0" SHEET INFO ISSUE DATE: 03/31/2022 ISSUED FOR:PERMIT SET REVISION SCHEDULE NO DESCRIPTION DATE JAMES M. GRANICH NUMBER PE-2014023909 Missouri COA #001268 FOUNDATION **DETAILS**

S3.0

PROJECT INFO

BUILDING SHELL - LEE'S SUMMIT,

MAIN CONTACT

CHRISTOPHER CLARK, AIA, NCARB 7701 E KELLOGG DR, STE 630

COVENANT GROUP, LLC

CLIENT:

PROJECT:

ADDRESS:

PROJECT NO:

MO - CHIPMAN RD

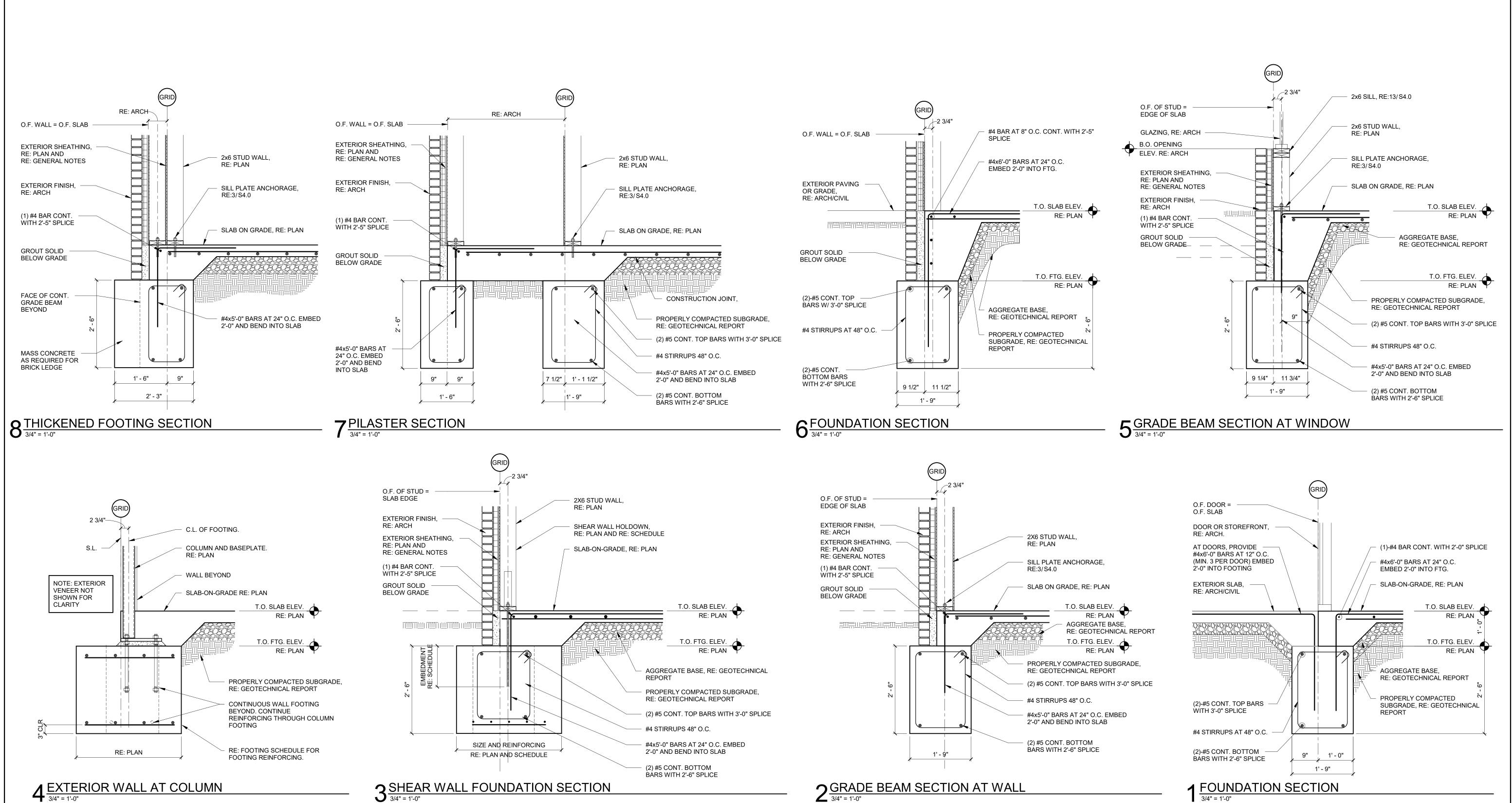
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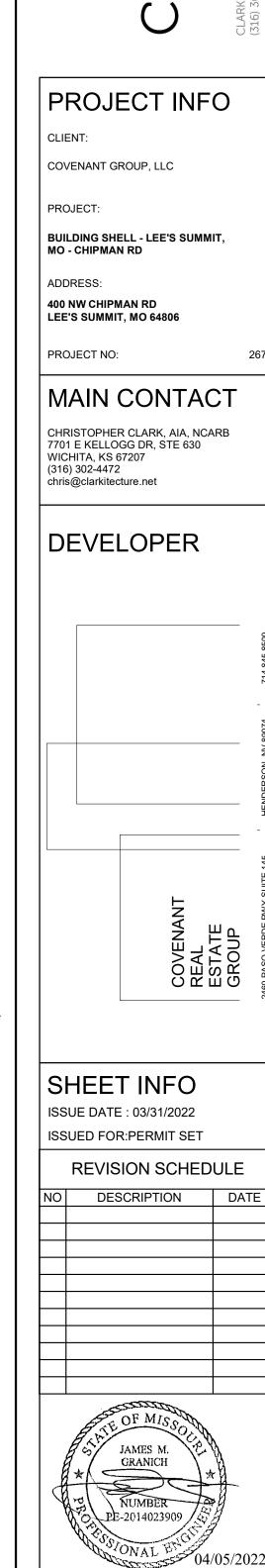
WICHITA, KS 67207

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DEVELOPER

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Missouri COA #001268

FOUNDATION

DETAILS

S3.1

Wallace Engineering Structural Consultants, Inc.

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Tulsa, Oklahoma 74103

COVENANT GROUP, LLC

PROJECT:

BUILDING SHELL - LEE'S SUMMIT, MO - CHIPMAN RD

LEE'S SUMMIT, MO 64806 PROJECT NO:

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DEVELOPER

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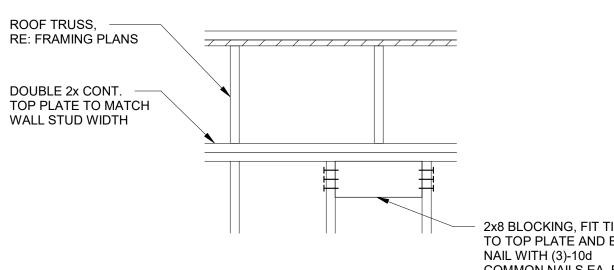
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NO DESCRIPTION DATE

JAMES M. GRANICH

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FRAMING **DETAILS**



WALL STUD WIDTH

- CENTER SPLICE OF 2X STUD (10) 10d NAILS STAGGERED

2x WOOD STUDS AT 16"

SILL PLATE ANCHORAE,

ATTACHMENT

ANCHOR TYPE

5/8" DIA. CONCRETE

SCREW ANCHORS

5/8" DIA. HEADED

ANCHOR BOLTS

1/2" DIA. EXPANSION

ANCHORS

0.177" DIA P.A.F.

0.099" DIA P.A.F.

RE:3/S4.0

O.C. TYPICAL U.N.O.

1. PLACE FIRST ANCHOR 8" AND 16" FROM ENDS OF SILL PLATE.

PLYWOOD

(TYP.)

INTERSECTIONS

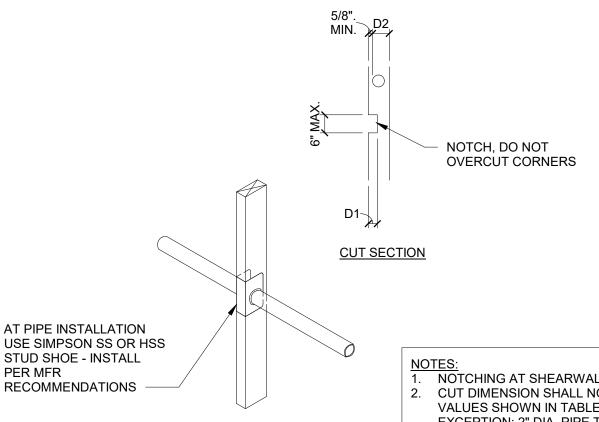
SHEATHING

2. SILL PLATES SHALL HAVE A MINIMUM OF 2 ANCHORS.

AT EACH SIDE OF SPLICE **ELEVATION** NOTE: DO NOT SPLICE MORE THAN ONE 2X MEMBER IN 4'-0" LENGTH. 10 1/2".— [\]10 1/2'

12 TOP PLATE SPLICE DETAIL

1" = 1'-0"



BEARING WALLS NON-BEARIGN WALLS MAX. D1 MAX D2 MAX. D1 MAX D2 HOLE DIA. 2" 3 1/4" 4 1/4"

EXCEPTION: 2" DIA. PIPE THROUGH 2x4 AND 2x6 WALLS MAY HAVE NOTCH DIMENSION (D1) UP TO 2 1/2" WHERE SIMPSON HSS STUD SHOE IS INSTALLED PER MFR. RECOMMENDATIONS. HOLE AND NOTCH SIZES FOR NON-BEARING WALLS MAY BE USED FOR BEARING WALL AT DOUBLED STUDS, PROVIDED NOT MORE THAN 2 SUCCESSIVE STUDS ARE SO BOARD OR NOTCHED.

6 TYPICAL NOTCH AT WOOD STUD

INTERIOR NON LOAD

N/A

N/A

48" O.C.

STAGGERED

12" O.C.

STAGGERED

BEARING WALLS BEARING WALLS

1 3/8" 1 3/8"

NOTCH | HOLE DIA. | NOTCH

1 3/8" | 2 3/16" | 2 3/16"

1 3/4" 2 7/8" 2 7/8"

LOCATION AND SPACING

72" O.C.

72" O.C.

72" O.C.

24" O.C.

STAGGERED

12" O.C.

STAGGERED

3 PLY 2x4:(1) ROW 30d COMMON NAILS 3 PLY 2x6:(2) ROW 30d COMMON NAIL 4 PLY 2x6:(2) ROW SDS25600 SCREWS

SINGLE 2x PTDF

SILL PLATE

- 1. CONNECT BUILT-UP POSTS WITH NAILS OR BOLTS TO ALLOW FINISHED MEMBER TO ACT COMPOSITELY. COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NDS, BUT IN NO CASE LESS THAN THE (2) PLY 2x4: (1) ROW OF STAGGERED 10d COMMON NAILS AT 12" O.C, SPACED AT 11/2" HORIZ. AND 6" VERT. CENTERED ON MEMBER, WITH ADJACENT NAILS DRIVEN FROM OPPOSITE SIDES OF THE BUILT-UP
 - (2) PLY 2x6: (1) ROW OF STAGGERED 10d COMMON NAILS AT 12" O.C. SPACED AT 21/2" HORIZ. AND 6" VERT. CENTERED ON MEMBER, WITH ADJACENT NAILS DRIVEN FROM OPPOSITE SIDES OF THE BUILT-UP (3) PLY 2x4: (1) ROW OF STAGGERED 30d COMMON NAILS AT 16" O.C, SPACED AT 11/2" HORIZ. AND 8" VERT. CENTERED ON MEMBER, WITH

___ 1 1/2"-

HEADER SCHEDULE

(3) 1 1/2x18 LVL

(3) 1 1/2x14 LVL

(3) 2X6

(3)2X10

HEADER

13 BEARING WALL HEADER SCHEDULE

9 TYPICAL WALL FRAMING BLOCKING
3/4" = 1'-0"

7 TYPICAL WALL FRAMING CONNECTION

2 PLY: ONE ROW

OF STAGGERED

10d COMMON

DRIVE FROM

OPPOSITE SIDE

AT STAGGERED

NAILS.

ROWS

TRIMMER STUDS

NOTES:RE:10/S4.2 FOR HEADER ATTACHMENT TO STEEL COLUMN

TRIMMER | FULL HEIGHT |

STUDS

HSS5x5x3/8

HSS5x5x3/8

(2) 2X6

(2) 2X6

(2) 2X6

(2) 2X6

(1)2X6

(2) 2X6

TOP PLATE, SPLICE,

RE:12/S4.0

INFILL STUDS

TOENAILED TO

HEADER WITH

MIN. (2) 16d NAILS

(8) 16d NAILS, TYP.

FASTEN MULTIPLE PLIES

AT 6" O.C. STAGGÈŔ ROWS

TOGETHER WITH (3) 10d NAILS

FULL HEIGHT STUDS

2X6 TOP AND BOTTOM PLATE AS OCCURS, RE: SCHEDULE

2x BLOCKING AT

NAILS MINIMUM

SHEATHING JOINTS FASTEN EACH END OF BLOCKING USING (3) 8d

SHEATHING RE: PLAN

ROOF TRUSS BEYOND

SHEATHING

(TYP.)

STUDS

(2) 2X6

(1) 2X6

(1) 2X6

(1) 2X6

MAX OPENING

WIDTH

19'-6"

H3

SHEATHING RE: PLAN

2x BLOCKING AT

SHEATHING JOINTS.

(3) 8d NAILS MINIMUM

ALL STUDS SHOWN ARE 2x

FASTEN EACH END OF BLOCKING USING

- ADJACENT NAILS DRIVEN FROM OPPOSITE SIDES OF THE BUILT-UP MEMBER. (3) PLY 2x6: (2) ROWS OF 30d COMMON NAILS AT 8" O.C EA. SIDE, SPACED AT 11/2" HORIZ. FROM EDGE.
- (4) PLY 2x6: (2) ROWS OF SIMPSON SDS25600 SCREWS AT 8" O.C EA. SIDE, SPACED AT 11/2" HORIZ. FROM EDGE. 2. "+" DENOTES NAIL LOCATIONS DRIVEN FROM BACK FACE OF ADDITIONAL
- NAILS WHERE (2) ROWS OF NAILS ARE REQUIRED. **BUILT-UP POSTS** 3/4" = 1'-0"

1 1/2" AT 2x4

2 1/2" AT 2x6

FOLLOWING.

MEMBER.

| JOIST HANGER SCHEDULE | | | CHEDULE |
|-----------------------|------------|-------------------|-------------------|
| | JOIST SIZE | FACE MOUNT HANGER | TOP FLANGE HANGER |
| S. | 2x4 | LUS24 | PF24 |
| S. | 2x6 | LUS26 | JB26 |
| S. | 2x8 | LUS26 | JB28 |
| | 2x10 | LUS28 | JB210A |
| | 2x12 | LUS210 | JB212A |
| | (2) 2x8 | LUS28-2 | HUS28-2TF |
| | (2) 2x10 | LUS28-2 | HUS210-2TF |
| | (2) 2x12 | LUS28-2 | HUS212-2TF |

- THE ABOVE ARE MIN. HANGER REQUIREMENTS. REFER TO DETAILS FOR FRAMING MEMBERS NOT SHOWN. ALL JOIST HANGERS BY SIMPSON STRONG-TIE CO. INC.
- ONLY USE FACE MOUNTED HANGERS WHERE ALL FACE NAILING CAN BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS. 4. FILL ALL HOLES WITH FASTENERS AS RECOMMENDED BY
- THE MANUFACTURER. PROVIDE CONCEALED FASTENERS AND FINISH FOR EXPOSED CONNECTORS TO COMPLY WITH ARCHITECT'S OR OWNER'S REQUIREMENTS.

FRAMING HANGER SCHEDULE

- . EACH SILL PLATE SHALL HAVE (2) ANCHORS MIN. 2. LOCATE ANCHOR BOLTS 12" MAX. FROM SILL PLATE ENDS. LOCATE P.A.F. 6" MAX. FROM SILL PLATE ENDS. 3. DO NOT OVERSIZE HOLES IN SILL PLATE. EXPANSION ANCHORS SHALL NOT BE ALLOWED WITHIN 6 INCHES OF SLAB EDGE.
- 5. ALL HARDWARE IN CONTACT WITH PRESSURE TREATED FRAMING SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL.

PER MFR

2x4 AND 3x4 7/8"

2x8

SILL PLATE ANCHOR SCHEDULE AT NON-SHEAR WALLS

EXTERIOR

WALLS

48" O.C.

48" O.C.

N/A

N/A

N/A

EMBEDMENT

2 1/4"

1 1/2"

| "POWER" DRIVEN NAIL SIZES | |
|---------------------------|----------------------|
| 6d COMMON | 0.113" DIA. x 2" |
| 8d COMMON | 0.131" DIA. x 2 1/2" |
| 10d COMMON | 0.148" DIA. x 3" |
| 12d COMMON | 0.148" DIA. x 3 1/4" |
| 16d COMMON | 0.162" DIA. x 3 1/2" |
| 20d COMMON | 0.192" DIA. x 4" |
| 30d COMMON | 0.207" DIA. x 4 1/2" |

| EQUIVALENT PNEUMATIC OR "POWER" DRIVEN NAIL SIZES | |
|---|----------------------|
| 6d COMMON | 0.113" DIA. x 2" |
| 8d COMMON | 0.131" DIA. x 2 1/2" |
| 10d COMMON | 0.148" DIA. x 3" |
| 12d COMMON | 0.148" DIA. x 3 1/4" |
| 16d COMMON | 0.162" DIA. x 3 1/2" |
| 20d COMMON | 0.192" DIA. x 4" |
| 30d COMMON | 0.207" DIA x 4.1/2" |

JOISTS TO BAND JOIST OR RIM JOIST

CONTINUOUS HEADER TO STUD

RAFTER TO VALLEY OR HIP RAFTER

1" BRACE TO EA. STUD PLATE

1"x6" SUBFLOOR OR LESS

WIDER THAN 1"x6" SUBFLOOR

1"x8" AND WIDER SHEATHING

FOR MORE STRINGENT REQUIREMENTS.

2" SUBFLOOR TO JOIST OR GIRDER

LEDGER STRIP

2" PLANKS

1"x6" SHEATHING

CEILING JOIST TO TOP PLATE

(RE: NOTE 4)

BUILT-UP HEADER (2x TO 2x WITH 1/2" MAX. SPACER)

BUILT-UP BEAMS, (2x LAYERS WITH 3 OR MORE PLYS)

DOUBLE TRUSSES (2x TO 2x CHORD MEMBERS)

6. RE: SHEAR WALL SCHEDULE FOR SILL PLATE ANCHORS AT SHEAR WALLS.

2 SILL PLATE ANCHOR SCHEDULE AT NON-SHEAR WALLS 2 EQUIVALENT NAIL SIZE SCHEDULE 1 TYPICAL NAILING SCHEDULE

2x8 BLOCKING, FIT TIGHT TO TOP PLATE AND END COMMON NAILS EA. END **JOIST DOES NOT ALIGN WITH STUD** 14 BEARING WALL FRAMING ALIGNMENT **ROOF TRUSS** SIMPSON STCT TRUSS CLIPS SIMPSON RPS22 PROVIDED AT EACH ROOF STRAP WITH (16)d x2 TRUSS. INSTALL PER 1/2" EA. STRAP. MANUFACTURES PROVIDE BOTH **SPECFICATIONS** SIDES WHEN NOTCH DEPTH IS GREATER THAN 1/2 THE DEPTH NON-LOAD BEARING WALL NOTE: DETAIL APPLIES TO HOLES GREATER THAN 3/4" IN DIAMETER AND ALL **ROOF TRUSS TO WALL** NOTCHES IN THE DOUBLE TOP PLATE. NO STRAP IS REQUIRED AT HOLES LESS THAN 3/4" IN DIAMETER ROOF 10 HOLES AND NOTCHES IN TOP PLATE

3/4" = 1'-0" **TRUSS** SIMPSON STCT TRUSS CLIPS PROVIDED AT EACH PIECE OF BLOCKING. INSTALL PER MANUFACTURES TYPICAL NAILING SCHEDULE **SPECIFICATIONS** 2X BLOCKING AT 24" OC CONNECTION BETWEEN TRUSS BOTTOM TRUSS/JOIST/RAFTER TO SILL, TOP PLATE, OR GIRDER NON-LOAD BEARING WALL **ROOF TRUSS TO WALL** BRIDGING OR BLOCKING TO JOIST 1 1 INTERIOR WALL BRACING DETAIL

3/4" = 1'-0" BRIDGING OR BLOCKING BETWEEN JOIST TO TOP PLATE (3)-8d TOE NAIL EA. END BOTTOM PLATE TO JOIST OR BLOCKING STUD TO TOP OR BOTTOM PLATE STUD TO STUD AND BUILT-UP CORNER STUDS DOUBLE TOP PLATES, MIN. 24" OFFSET OF END JOISTS DOUBLE TOP PLATES AT END JOISTS, MIN. 24" OFFSET TOP PLATES, LAPS AND INTERSECTIONS RIM JOISTS TO TOP PLATE

> NOTCHING AT SHEARWALL END POSTS IS NOT PERMITTED. CUT DIMENSION SHALL NOT EXCEED VALUES SHOWN IN TABLE.

CEILING JOIST LAP OF PARTITION (3)-16d FACE NAIL **CEILING JOIST TO PARALLEL RAFTERS** AS REQUIRED PER IBC **COLLAR TIE TO PARALLEL RAFTERS** (3)-10d FACE NAIL

5 1/2" MAX.

NOTCH GREATER THAN D/2

NOTCH GREATER THAN D/2

MAX. SIZE OF HOLES IS

2" DIA. FOR 2x4 WALLS

AND 4" DIA. FOR 2x6

AT HOLES GREATER

NAILING

(3)-8d TOENAIL

16d AT 24" O.C.

(2)-8d TOE NAIL EA. END

(2)-16d END NAIL / (4)-8d TOE NAIL

(8)-16d EA. SIDE OF JOINT FACE NAIL

16d AT 16" O.C., FACE NAIL EA. EDGE

16d AT 16" O.C., FACE NAIL EA. CHORD

AT EA. END AND AT EA. SPLICE

(2) 16d END NAIL/(3) 10d TOENAIL

(3) 16d FACE NAIL AT EA. JOIST

(2)-8d FACE NAIL, EA. JOIST

(2)-8d FACE NAIL, EA. JOIST

(2)-16d BLIND AND FACE NAIL

(2)-16d FACE NAIL EA. BEARING

(2)-8d FACE NAIL EA. BEARING

(3)-8d FACE NAIL EA. BEARING

THE ABOVE ARE MIN. NAILING REQUIREMENTS. REFER TO GENERAL NOTES, DETAILS, AND SCHEDULES

RE: IBC FASTENING SCHEDULE FOR MINIMUM WOOD FASTENING REQUIREMENTS NOT SHOWN.

PROVIDE HOT-DIPPED ZINC-COATED GALVANIZED NAILS AT EXTERIOR FACE OF WALLS.

RE: GENERAL NOTES AND SHEAR WALL SCHEDULE FOR SHEATHING ATTACHMENT.

PROVIDE ADDITIONAL ROW OF NAILS WHEN DEPTH IS 14" OR GREATER.

20d AT 32" O.C. FACE NAIL AT TOP AND BOTTOM

AND STAGGERED ON OPPOSITE SIDES. TWO NAILS

10d AT 16" O.C. FACE NAIL OR

16d AT 24" O.C., FACE NAIL

10d AT 12" O.C. FACE NAIL

16d AT 16" O.C. FACE NAIL

(2)-16d FACE NAIL

(3)-16d END NAIL

(4)-8d TOE NAIL

(3)-8d TOE NAIL

(2)-8d FACE NAIL

8d AT 6" O.C. TOE NAIL

THAN 1 1/2" DIA.

ST2215 STRAP

BOTH SIDES

INSTALL SIMPSON

RAFTER TO 2x RIDGE BEAM (2) 16d END NAIL/(3) 10d TOENAIL

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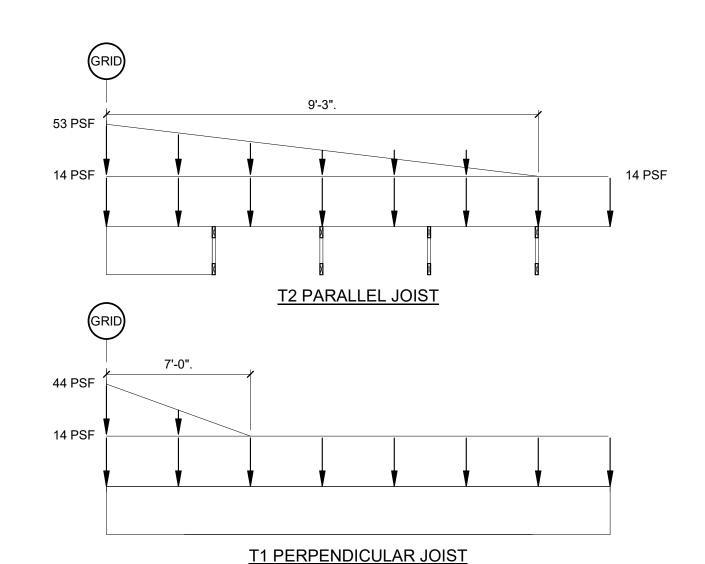
S4.0



Wallace Engineering Structural Consultants, Inc.

FRAMING MEMBERS,

Structural and Civil Consultants 123 N. Martin Luther King Jr. Blvd. Tulsa, Oklahoma 74103 918.584.5858, 800.364.5858



1. ROOF TRUSSES SHALL BE DESIGNED FOR THE CODE LOADING SPECIFIED WITHIN THE GENERAL NOTES. SNOW DRIFT SHALL BE PER THE LOADING SPECIFIED

6 JOIST SNOW DRIFT

SHEATHING PANEL MARK HOLDOWN ANCHORS (RE: PLANS FOR LOCATIONS) AT PANEL EDGES AT INTERMEDIATE SILL PLATE TO BUILT-UP AND BOUNDARIES FRAMING MEMBERS **END STUDS** CONCRETE (1) SIMPSON HDU4-SDS2.5 HOLDOWN WITH 5/8" DIA. 5/8" DIA. SIMPSON 5/16" WOOD TITEN HD ANCHOR SW1 STRUCTURAL PANEL 6d AT 6" O.C. 6d AT 12" O.C. (2) 2x6 AT 48" O.C. WITH 6" HILTI HIT-HY 200 ADHESIVE ONE SIDE **EMBEDMENT** WITH 12" EMBEDMENT 5/8" DIA. SIMPSON (1) SIMPSON HDU5-SDS2.5 5/16" WOOD TITEN HD ANCHOR HOLDOWN WITH 5/8" DIA. SW2 (2) 2x6 STRUCTURAL PANEL 6d AT 4" O.C. 6d AT 12" O.C. AT 48" O.C. WITH 6" HILTI HIT-HY 200 ADHESIVE ONE SIDE **EMBEDMENT** WITH 12" EMBEDMENT NOTES:

1. RE: PLANS FOR ANCHOR BOLT AND HOLDOWN LOCATIONS.

SHEAR WALL SCHEDULE

NAILING

ANCHORS

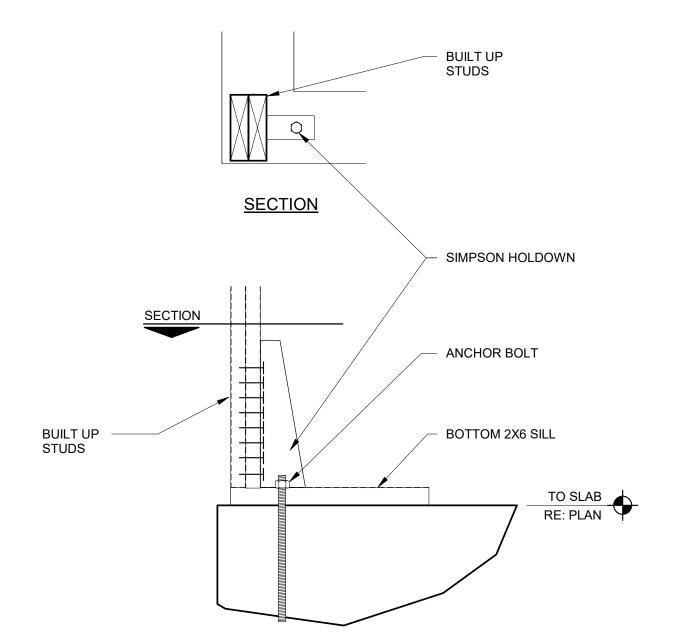
HOLDDOWN EMBEDMENT DOES NOT INCLUDE SLAB-ON-GRADE THICKNESS 5 SHEAR WALL SCHEDULE
3/4" = 1'-0"

2. ALL SHEATHING TO BE APA RATED, EXPOSURE I.

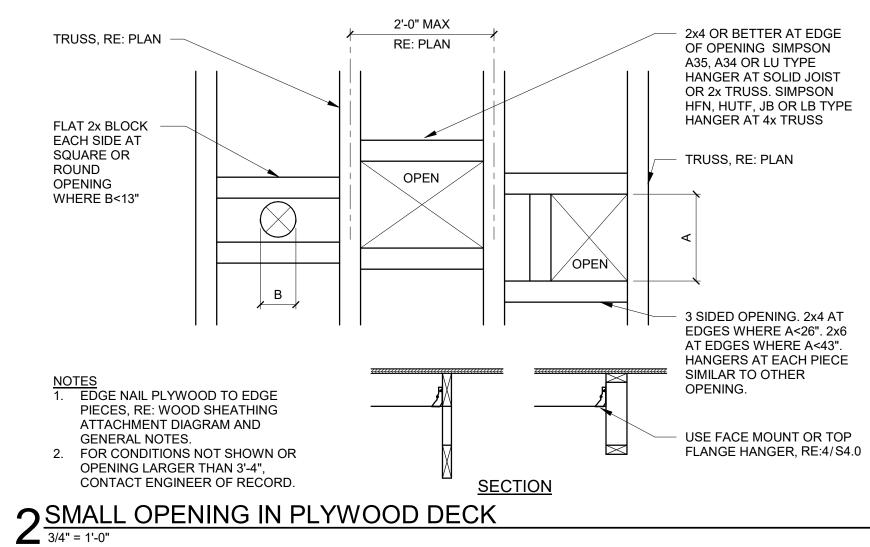
RE: PLAN WALL, RE: PLAN ROOF SHEATHING AND EDGE NAILING (NAILING AT ATTACHMENT, RE: PLAN AND EDGE OF PANEL, BLOCKING WOOD FRAMING NOTES AND DIAPHRAGM BOUNDARIES) NOTE: SHEATHING MUST BE ORIENTED WITH LONG DIMENSION ACROSS ROOF MEMBERS. STAGGER JOINTS IN SHORT DIRECTION FIELD NAILING (NAILING AWAY FROM EDGE OF PANEL)

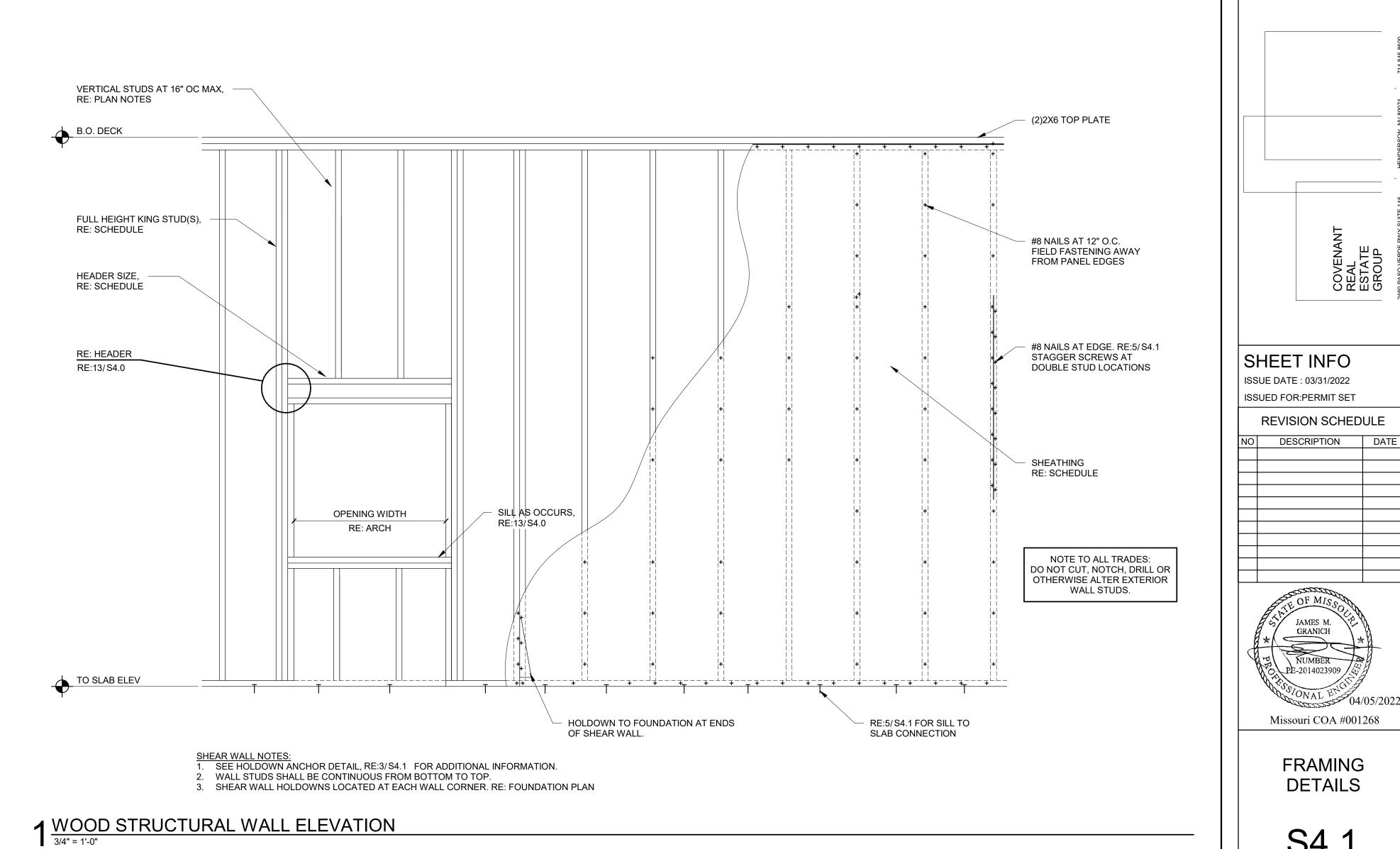
4 WOOD SHEATHING ATTACHMENT DIAGRAM

3/4" = 1'-0"



3 SHEAR WALL HOLDOWN
1 1/2" = 1'-0"





PROJECT INFO COVENANT GROUP, LLC BUILDING SHELL - LEE'S SUMMIT, MO - CHIPMAN RD **400 NW CHIPMAN RD** LEE'S SUMMIT, MO 64806 PROJECT NO: MAIN CONTACT CHRISTOPHER CLARK, AIA, NCARB 7701 E KELLOGG DR, STE 630 WICHITA, KS 67207 (316) 302-4472 chris@clarkitecture.net DEVELOPER

CLIENT:

PROJECT:

ADDRESS:

SHEET INFO ISSUE DATE: 03/31/2022 ISSUED FOR:PERMIT SET REVISION SCHEDULE

JAMES M. GRANICH



FRAMING **DETAILS**

S4.1