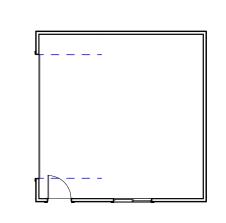
2020 WEBER STATE UNIVERSITY SOLAR DECATHLON HOME

PROJECT ADDRESS: 2807 Quincy Avenue, Ogden, Utah 84403











& Technology

NO.	DESCRIPTION	DATE

WSU SOLAR DECATHLON HOME

COVER SHEET

PROJECT NUMBER	
CLIENT NAME	SOLAR DECATHLON
DATE	OCT 31, 2019
DRAWN BY	DESIGN TEAM
CHECKED BY	JFARNER

001G

SCALE As indicated

PROJECT DESIGN GUIDELINES:

CLIMATE ZONE 5B
SEISMIC ZONES D 1
WIND 90 MPH (3 SECOND GUSTS)
EXPOSURE B
FROST DEPTH 30"
FLOOR LOAD 50 PSF (40 LIVE + 10 DEAD)
ROOF LOAD 55 PSF (40 LIVE + 15 DEAD)
ROOF SNOW LOAD (30 PSF LIVE)
GROUND SNOW LOAD (50 PSF LIVE)
ASSUMED SOIL BEARING CAPACITY 1,500 PSF

PROJECT DIRECTORY:

WEBER STATE REP JEREMY FARNER 801-389-4437 JFARNER@WEBER.EDU

STRUCTURAL ENGINEER
TOM HALES
801-458-6955
TAHALES@MSN.COM

	SHEET LIST
SHEET NO.	SHEET NAME
001G	COVER SHEET
002G	GENERAL NOTES
A001	SITE PLAN
A002	LANDSCAPING PLAN
A101	BASEMENT FLOOR PLAN
A102	MAIN LEVEL FLOOR PLAN
A105	ROOF PLAN
A106	GARAGE FLOOR & ELECTRICAL PLA
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A301	BUILDING SECTION
E101	ELECTRICAL PLANS
M101	HVAC SYSTEMS

ROOM DIMENSIONS
THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED ROOM DIMENSIONS:

CEILING HEIGHT MINIMUM IS TO BE 7'-6" IN 50% OF AREA EXCEPT 7'-0" CAN BE USED FOR BATHROOMS AND HALLWAYS.

MINIMUM ROOM SIZE IS TO BE 70 SQ FT

NATURAL LIGHT AND VENTILATION
THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED STANDARDS FOR LIGHTING AND VENTILATION:
MINIMUM WINDOW AREA IS TO BE 8% OF THE FLOOR AREA WITH NOT LESS THAN 10 SQ FT FOR HABITABLE ROOMS AND 3 SQ FT FOR BATHROOMS AND LAUNDRY ROOMS. NOT LESS THAN ONE-HALF OF THIS REQUIRED WINDOW AREA IS TO BE OPENABLE, EVERY SLEEPING ROOM IS REQUIRED TO HAVE A WINDOW OR DOOR FOR EMERGENCY EXIT. WINDOWS WITH AN OPENABLE AREA OF NOT LESS THAN 5 SQ FT WITH NO DIMENSION LESS THAN 22" MEET THIS REQUIREMENT, AND THE SILL HEIGHT IS TO BE NOT MORE THAN 44" ABOVE THE FLOOR. GLASS SUBJECT TO HUMAN IMPACT IS TO BE TEMPERED GLASS.

GLASS DOORS IN SHOWER AND TUB ENCLOSURES ARE TO BE TEMPERED GLASS OR FRACTURE-RESISTANT PLASTIC.

ATTIC VENTILATION IS TO BE A MINIMUM OF 1/300 OF THE ATTIC AREA, ONE-HALF IN THE SOFFIT AND ONE-HALF IN THE UPPER AREA.

BATHROOM AND KITCHEN FANS AND DRYER ARE TO VENT DIRECTLY OUTSIDE.

ATTICS TO VENTILATED ACCORDING TO THE REQUIREMENTS OF SECTION R806.2 OF THE 2006 IRC. SEE ELEVATION DRAWINGS FOR LOCATIONS OF ROOF VENTS.

WINDOWS

ALL WINDOW GLASS WITHIN 24 INCHES OF EXTERIOR DOORS MUST BE TEMPERED.

ALL WINDOW GLASS WITHIN 24 INCHES OF EXTERIOR DOORS MUST BE TEMPERED. ALL WINDOWS IN ROOMS USED FOR SLEEPING SHALL HAVE SILLS NOT MORE THAN 44 INCHES ABOVE FLOOR WITH AN NET CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET. HEIGHT OF OPENING SHALL NOT BE LESS THAN 24 INCHES, WITH A NET CLEAR WIDTH OF NOT LESS THAN 20 INCHES.

FOUNDATION
THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR FOUNDATION CONSTRUCTION:

ON THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR FOUNDATION CONSTRUCTION:

CONCRETE MIX IS TO HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 2500 POUNDS PER SQUARE INCH (PSI) AT 28 DAYS AND SHALL BE COMPOSED OF 1 PART CEMENT, 3 PARTS

SAND, 4 PARTS OF 1" MAXIMUM SIZE ROCK, AND NOT MORE THAN 7 1/2 GALLONS OF WATER PER SACK OF CEMENT.
FOUNDATION MUD-SILLS, PLATES, AND SLEEPERS ARE TO BE PRESSURE TREATED OR OF FOUNDATION-GRADE REDWOOD.
ALL FOOTING SILLS MUST HAVE FULL BEARING ON THE FOOTING WALL OR SLAB AND SHALL BE BOLTED TO THE FOUNDATION WITH 1/2" X 10" BOLTS EMBEDDED AT LEAST 7" INTO THE CONCRETE OR REINFORCED MASONRY, OR 15" INTO UN-REINFORCED GROUTED MASONRY. BOLTS CANNOT BE SPACED MORE THAN 6" APART ON CENTER, WITH BOLTS SPACED NO MORE

CRAWL SPACE MUST BE VENTILATED BY AN APPROVED MECHANICAL MEANS OR BY OPENINGS WITH A NET AREA NOT LESS THAN 1 1/2 SQ FT FOR EACH 25 LINEAR FT OF EXTERIOR WALL. OPENINGS NEED TO BE COVERED WITH NOT LESS THAN 1/4" OR MORE THAN 1/2" OF CORROSION-RESISTANT WIRE MESH. IF THE CRAWL SPACE IS TO BE HEATED, CLOSABLE COVERS FOR VENT OPENINGS MUST BE PROVIDED.

CRAWL SPACES MUST HAVE ONE SQUARE FOOT OF VENTILATION FOR EVERY 150 SQUARE FEET CRAWL SPACE WITH ONE VENT WITHIN 3' OF EACH CORNER OF THE BUILDING.

WATER DRAINAGE AND 6-MIL BLACK GROUND COVER MUST BE PROVIDED IN THE CRAWL SPACE. ACCESS TO CRAWL SPACE IS TO BE A MINIMUM OF 18" X24".

BASEMENT FOUNDATION WALLS WITH A HEIGHT OF 8' OR LESS SUPPORTING A WELL-DRAINED POROUS FILL OF 7' OR LESS, WITH SOIL PRESSURE NOT MORE THAN 30 POUNDS PER SQUARE FOOT (PSF) EQUIVALENT FLUID PRESSURE, AND WITH THE BOTTOM OF THE WALL SUPPORTED FROM INWARD MOVEMENT BY STRUCTURAL FLOOR SYSTEMS MAY BE OF PLAIN CONCRETE WITH 8" MINIMUM THICKNESS AND MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. BASEMENT WALLS SUPPORTING BACKFILL AND NOT MEETING THESE CRITERIA MUST BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES.

CONCRETE FORMS FOR FOOTINGS NEED TO CONFORM TO THE SHAPE, LINES, AND DIMENSIONS OF THE MEMBERS AS CALLED FOR ON THE PLANS AND SHOULD BE SUBSTANTIAL AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OF MORTAR AND SLUMPING OUT OF CONCRETE IN THE GROUND CONTACT AREA

FRAMING
THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR WOOD FRAME CONSTRUCTION:

LUMBER SPECIFICATIONS: ALL JOISTS, RAFTERS, BEAMS, AND POSTS 2" TO 4" THICK SHOULD BE NO. 2 GRADE DOUGLAS FIR-LARCH OR BETTER. ALL POSTS AND BEAMS 5" AND THICKER

UNTREATED BEAMS BEARING IN CONCRETE OR MASONRY WALL POCKETS NEED AIRSPACE ON SIDES AND ENDS.
BEAMS ARE TO HAVE NOT LESS THAN 4" OF BEARING ON MASONRY OR CONCRETE.

WALL BRACING SPECIFICATIONS: EVERY EXTERIOR WOOD STUD WALL AND MAIN CROSS PARTITION MUST BE BRACED AT EACH END AND AT LEAST EVERY 25' OF LENGTH WITH 1"X4"

WALL BRACING SPECIFICATIONS, EVERY EATERIOR WOOD STOD WALL AND MAIN CROSS PARTITION MUST BE B DIAGONAL LET-IN BRACES OR EQUIVALENT.

JOISTS ARE TO HAVE NOT LESS THAN 1 1/2" OF BEARING ON WOOD OR METAL NOR LESS THAN 3" ON MASONRY

FLOOR JOISTS ARE TO HAVE SOLID BLOCKING AT EACH SUPPORT AND AT THE ENDS EXCEPT WHEN THE END IS NAILED TO A RIM JOIST OR ADJOINING STUDS. JOISTS 2X14 OR LARGER ARE TO HAVE BRIDGING AT MAXIMUM INTERVALS OF 8'.
TWO-INCH CLEARANCE IS REQUIRED BETWEEN COMBUSTIBLE MATERIAL AND THE WALLS OF AN INTERIOR FIREPLACE OR CHIMNEY. ONE-INCH CLEARANCE IS REQUIRED WHEN THE

CHIMNEY IS ON AN OUTSIDE WALL OR 1/2" MOISTURE-RESISTANT GYPSUM BOARD CAN BE USED RATHER THAN THE 1" CLEARANCE REQUIREMENT. RAFTER PURLIN BRACES ARE TO BE NOT LESS THAN 45° TO THE HORIZONTAL.
RAFTERS, WHEN NOT PARALLEL TO CEILING JOISTS, ARE TO HAVE TIES THAT ARE 1X4 MINIMUM SPACED NOT MORE THAN 4' ON CENTER.

PROVIDE A DOUBLE TOP PLATE WITH A MINIMUM 48" LAP SPLICE.

METAL TRUSS TIE-DOWNS ARE TO BE REQUIRED FOR MANUFACTURED TRUSSES AT EACH END.
PLANT MANUFACTURED TRUSSES (IF USED) MUST BE OF AN APPROVED DESIGN WITH AN ENGINEERED DRAWING

FIRE BLOCKING MUST BE PROVIDED FOR WALLS OVER 10'-0" IN HEIGHT, ALSO FOR HORIZONTAL SHAFTS 10'-0" ON CENTER, AND FOR ANY CONCEALED DRAFT OPENING.

GARAGE WALLS AND CEILING ADJACENT TO OR UNDER DWELLING REQUIRE ONE-HOUR FIRE-RESISTANT CONSTRUCTION ON THE GARAGE SIDE. A SELF-CLOSING DOOR BETWEEN THE GARAGE AND DWELLING IS TO BE A MINIMUM 1 3/8" SOLID CORE CONSTRUCTION.

CERAMIC TILE. OR APPROVED MATERIAL. IS TO BE USED IN A WATER-SPLASH AREA.

BUILDING PAPER, OR OTHER APPROVED MATERIAL, IS TO BE USED UNDER SIDING.

FRAMING IN THE WATER-SPLASH AREA IS TO BE PROTECTED BY WATERPROOF PAPER, WATERPROOF GYPSUM, OR OTHER APPROVED SUBSTITUTE.

POST-AND-BEAM CONNECTION SPECIFICATIONS: A POSITIVE CONNECTION MUST BE PROVIDED BETWEEN BEAM, POST, AND FOOTING TO ENSURE AGAINST UPLIFT AND LATERAL

DISPLACEMENT

UNTREATED POSTS NEED TO BE SEPARATED FROM CONCRETE OR MASONRY BY A RUST-RESISTANT METAL PLATE OR IMPERVIOUS MEMBRANE AND BE AT LEAST 6" FROM ANY EARTH ALL DIMENSIONS ON FLOOR PLANS ARE TO ROUGH FRAMING.

BUILT-UP BEAMS OF 2 X MEMBERS SHALL BE SPIKED TOGETHER WITH NOT LESS THAN 16D NAILS AT 16" O.C. ON ALL EDGES.

ALL STRUCTURAL SHEATHING SHALL BE APA RATED AND SHALL NOT EXCEED MAXIMUM SPAN RATING. FLOOR SHEATHING SHALL BE TONGUE AND GROOVE.

GAP ALL WAFERBOARD SHEATHING. · INSTALL H-CLIPS ON ROOF SHEATHING.

TRUSSES SHALL BE ENGINEERED AND CONSTRUCTED BY MANUFACTURER AND GUARANTEED TO WITHSTAND LOADS AS REQUIRED BY LOCAL CODES.
ALL BI-PASS DOORS SHALL BE FRAMED ONE INCH SMALLER IN WIDTH THAN THE DOOR. EXAMPLE: A 4'-0" SLIDER SHALL HAVE A 47 INCH ROUGH OPENING. FURTHERMORE, BI-FOLD DOORS SHALL BE FRAMED 1" WIDER THAN DOOR AND 82" IN HEIGHT (VERSUS 83" IN HEIGHT FOR BI-PASS DOORS).

ALL NON-BEARING INTERIOR FRAMING SHALL BE AT 16 INCHES ON CENTER (UNLESS OTHERWISE NOTED). FRAMING TO INCLUDE ALL FURR DOWNS, PLANTSHELVES, AND CEILING JOISTS PER PLAN. LADDER BLOCKING AT ALL INTERIOR WALL INTERSECTIONS WITH EXTERIOR WALL.

WHERE NOT NOTED OTHERWISE, CONNECT ALL WOOD TO CONCRETE, WOOD TO STEEL, AND WOOD TO WOOD (EXCEPT STUD TO PLATE) WITH METAL CONNECTORS (SIMPSON OR EQUAL)

SOLID 2" NOMINAL BLOCKING SHALL BE PROVIDED AT ENDS OR POINTS OF SUPPORT OF ALL WOOD JOISTS AND TRUSSES.

INSTALL JOIST, RAFTER, AND BEAM HANGERS AND POST CAPS PER MANUFACTURER'S SPECIFICATIONS.
ALL MULTIPLE PLATES AND LEDGERS SHALL BE NAILED TOGETHER WITH 16D NAILS AT 8 INCHES ON CENTER.
NO MORE THAN TWO SILL PLATES CONNECTED TO THE FOUNDATION WITH J BOLTS THROUGH BOTH MEMBERS ARE ALLOWED WITHOUT ENGINEERING.

MULTIPLE MEMBER LEDGERS ARE NOT ALLOWED WITHOUT ENGINEERING THAT SHOWS THE FASTENING IS ADEQUATE.

BLOCK ALL HORIZONTAL EDGES OF PLYWOOD WALL SHEATHING WITH 2 INCH NOMINAL BLOCKING.
BLOCK EDGES OF PLYWOOD ON FLOORS AND ROOFS AS DIRECTED ON DRAWINGS.

ALL LEDGER BOLTS SHALL HAVE PLATE WASHERS WITH A MINIMUM DIAMETER EQUAL TO THREE TIMES THE BOLT DIAMETER UNLESS SHOWN OTHERWISE IN DETAILS
MINIMUM NAILING SHALL BE AS PER TABLE 602.3 (1) OF THE 2006 IRC.
FASTENERS SUCH AS STAPLES CAN ONLY BE SUBSTITUTED FOR NAILS AT A RATE EQUAL TO LOAD VALUES PROVIDED BY I.C.B.O. APPROVAL. HOWEVER, ALL FLOOR SHEATHING MUST BE FASTENED WITH CONTINUOUS GLUE BEAD AND RING SHANK NAILS (NO SUBSTITUTION)

PROVIDE HOLDOWNS AT SHEAR WALLS AS INDICATED ON THE FOUNDATION PLAN.
WOOD BEAMS CONSISTING OF TWO OR MORE PIECES SHALL HAVE THE PIECES SECURELY BOLTED OR NAILED TOGETHER TO PREVENT SEPARATION AND TO INSURE MUTUAL LOAD SHARING. EACH INTERCONNECTED PIECE SHALL BE CONTINUOUS BETWEEN SUPPORTS, AND SUPPORTS SHALL HAVE THE SAME WIDTH AS THE COMPOSITE BEAM.

SHELVES IN BEDROOM CLOSETS TO BE 12" IN DEPTH. SHELVES IN PANTRYS & LINENS TO BE 16".

IN CLOSETS WITH DOUBLE SHELVES, UPPER SHELF TO BE AT 84" AND LOWER SHELF TO BE AT 42". IN CLOSETS WITH SINGLE SHELF, SHELF SHALL BE SET AT 72" ABOVE FINISHED FLOOR. STUD WALLS THAT ARE 10' IN HEIGHT OR MORE SHALL BE FRAMED WITH STUDS SPACED AT 12" O.C.

STUD WALLS OVER 10' IN HEIGHT SHALL BE FIREBLOCKED PER SECTION 602.8 OF THE 2006 IRC.

MEMBER GRADES SHALL BE AS FOLLOWS:
SAWN LUMBER: HEM FIR STUD GRADE (OR BETTER)

HEADERS: SEE BEAM SCHEDULES ON FRAMING PLANS FLOOR JOISTS: BY TRUSJOIST GLU-LAM BEAMS: 24F-V4 (DF/DF)

FLOOR SHEATHING: 3/4" OSB (T & G)

WALL SHEATHING: 7/16" OSB ROOF SHEATHING: 7/16" OSB WITH H-CLIPS (U.N.O.) ROOF TRUSSES: PER MANUFACTURER SPECS

CHIMNEY AND FIREPLACE THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR CHIMNEY AND FIREPLACE CONSTRUCTION:

REINFORCING SPECIFICATIONS: MASONRY-CONSTRUCTED CHIMNEYS EXTENDING MORE THAN 7' ABOVE THE LAST ANCHORAGE POINT, SUCH AS THE ROOFLINE, MUST HAVE NOT LESS THAN FOUR #4 STEEL REINFORCING BARS PLACED VERTICALLY FOR THE FULL HEIGHT OF THE CHIMNEY WITH HORIZONTAL TIES NOT LESS THAN 1/4" DIAMETER SPACED AT NOT OVER 18" IN LIVALE.

IF THE WIDTH OF THE CHIMNEY EXCEEDS 40", TWO ADDITIONAL #4 VERTICAL BARS NEED TO BE PROVIDED FOR EACH ADDITIONAL FLUE OR FOR EACH ADDITIONAL 40" IN WIDTH OR

FRACTION THEREOF.
ANCHORAGE SPECIFICATIONS: ALL MASONRY CHIMNEYS OVER 18' HIGH SHALL BE ANCHORED AT EACH FLOOR AND/OR CEILING LINE MORE THAN 6' ABOVE GRADE, EXCEPT WHEN CONSTRUCTED COMPLETELY WITHIN THE EXTERIOR WALLS OF THE BUILDING

STAIRWAYS & RAILING REQUIREMENTS
THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR STAIRWAY CONSTRUCTION: MAXIMUM INTERIOR STAIR RISE 8", MAXIMUM EXTERIOR STAIR RISE 7 3/4"

MINIMUM TREAD 9" • MINIMUM HEADROOM 6"-8" • MINIMUM WIDTH 36".
WINDING AND CURVED STAIRWAYS ARE TO HAVE A MINIMUM INSIDE TREAD WIDTH OF 6".

EVERY STAIRWAY LANDING SHALL HAVE A DIMENSION, MEASURED IN THE DIRECTION OF TRAVEL, AT LEAST EQUAL TO STAIRWAY WIDTH.
A DOOR MAY OPEN AT THE TOP STEP OF AN INTERIOR FLIGHT OF STAIRS, PROVIDED THE DOOR DOES NOT SWING OVER THE TOP STEP, AND PROVIDED THAT THE TOP STEP IS NO MORE THAN EIGHT INCHES LOWER THAN THE FLOOR LEVEL.

ENCLOSED USABLE SPACE UNDER STAIRWAY IS TO BE PROTECTED BY ONE-HOUR FIRE-RESISTANT CONSTRUCTION, SUCH AS 5/8" TYPE X GYPSUM BOARD.

HANDRAILS ARE REQUIRED AT ALL STAIRWAYS HAVING THREE OR MORE RISERS.

PROVIDE 1 1/4" - 2-5/8" HANDRAILS 34" - 38" IN HEIGHT THAT RUN CONTINUOUS AND HAVE RETURNING ENDS TO WALL, NEWEL POST, OR SAFETY TERMINA

HANDRAILS DEEPER THAN 2-5/8 INCHES SHALL HAVE FINGER GROOVES 3/4 INCH BY 1/4 INCH DEEP ROUTED THE ENTIRE LENGTH OF AT LEAST ONE SIDE OF HANDRAIL. MINIMUM 36" HIGH GUARDRAILS ARE REQUIRED AT ALL LANDINGS OR DECKS OR FLOOR LEVELS THAT ARE MORE THAN THAN 30" APART IN DIMENSIONAL HEIGHT. BALUSTERS FOR GUARDRAILS AND HANDRAILS SHALL BE SPACED SUCH THAT A 4 INCH ROUND SPHERE CANNOT PASS THROUGH.

GUARD RAILS SHALL NOT BE CONSTRUCTED IN A MANNER THAT RESULTS IN A LADDER EFFECT.

HANDRAILS ARE TO BE FROM 34" TO 38" ABOVE TREAD NOSING, AND INTERMEDIATE RAILS ARE TO BE SUCH THAT NO OBJECT 4" IN DIAMETER CAN PASS THROUGH.

GUARDRAIL NOT LESS THAN 36" IN HEIGHT WITH INTERMEDIATE RAILS OR DIVIDERS SUCH THAT NO OBJECT 4" IN DIAMETER CAN PASS THROUGH.

WEATHER PROTECTION
THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR WHEATHERIZATION: COMPOSITION SHINGLES ON ROOF SLOPES BETWEEN 4/12 AND 7/12 MUST HAVE AN UNDERLAYMENT OF NOT LESS THAN 15-LB FELT. FOR SLOPES FROM 2/12 TO LESS THAN 4/12, BUILDING

DEPARTMENT APPROVAL OF ROOFING MANUFACTURERS' LOW-SLOPE INSTRUCTIONS IS REQUIRED.

USE UNDERLAYMENT OF NOT LESS THAN 15-LB FELT WITH AN INTERLACE OF NOT LESS THAN 30-LB FELT. FOR SLOPES LESS THAN 4/12, SPECIAL APPROVAL IS REQUIRED.

ATTIC ACCESS IS TO HAVE A MINIMUM OF 22" X 30" OF HEADROOM ABOVE. INSTALL (1) LAYER OF GRADE 'D' (15 LB.) FELT UNDER ASPHALT ROOF SHINGLES.
INSTALL (1) LAYER OF GRADE 'D' (15 LB.) FELT UNDER ALUMINUM SIDING.
INSTALL (1) LAYER OF GRADE 'D' (15 LB.) FELT UNDER BRICK VENEER.

INSTALL (2) LAYERS OF GRADE 'D' (15 LB.) FELT UNDER SYNTHETIC STUCCO SYSTEM.
INSTALL (1) LAYER NO. 40 COATED ROOFING OR COATED GLASS BASE (ICE & WATER SHIELD) FROM THE ROOF EAVES TO A LINE 24" INSIDE THE EXTERIOR WALL LINE WITH ALL LAPS.

CEMENTED TOGETHER

INSTALL (1) LAYER NO. 40 COATED ROOFING OR COATED GLASS BASE (ICE & WATER SHIELD) AT ALL VALLEYS.

PROVIDE METAL FLASHING OR EQUAL AT FOUNDATIONS (OR WHERE BRICK MEETS STUCCO) WHERE WATER FROM WEATHER BARRIER COULD ENTER DWELLING.

PROVIDE METAL FLASHING OR 15 LB. FELT BETWEEN WOOD SHEATHING AND CONCRETE PORCHES, LANDINGS, STEPS, AND STAIRS.

PROVIDE FLASHING, COUNTER-FLASHING, AND APPROVED CAULKING AT ALL EXTERIOR WINDOWS. WINDOWS MUST BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

MASONRY

MASONRY VENEER ABOVE OPENINGS SHALL BE SUPPORTED PER TABLE R703.7.1 OF THE 2006 IRC.

FLASHING SHALL BE LOCATED BENEATH THE FIRST COURSE OF MASONRY ABOVE FINISHED GROUND LEVEL ABOVE THE FOUNDATION WALL AND AT OTHER POINTS OF SUPPORT.

WEEPHOLES SHALL BE PROVIDED IN THE OUTSIDE WYTHE OF MASONRY WALLS AT A MAXIMUM SPACING OF 33" ON CENTER. WEEPHOLES SHALL NOT BE LESS THAN 3/16" IN DIAMETER.

THERMAL INSULATION AND HEATING
THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR THERMAL INSULATION AND HEATING.

THERMAL DESIGNS USING THE R-FACTOR MUST MEET MINIMUM R-FACTORS AS FOLLOWS:

CEILING OR ROOF: FLAT R-38, VAULTED R-30. INSULATION TYPE AND VALUES ARE DESCRIBED IN DETAIL IN CHAPTER 8.

WALLS: R-21, VAPOR BARRIER REQUIRED, WITH A MINIMUM ONE PERMEABILITY RATING FLOORS OVER UNHEATED CRAWL SPACE OR BASEMENTS: R-25 INCLUDING REFLECTIVE FOIL

BASEMENT WALLS: R-21

SLAB-ON-GRADE: R-15 AROUND PERIMETER A MINIMUM OF 18" HORIZONTALLY OR VERTICALLY.

THERMAL GLAZING SPECIFICATIONS: HEATED PORTIONS OF BUILDINGS LOCATED IN THE 5000 OR LESS DEGREE-DAY ZONE DO NOT REQUIRE THERMAL GLAZING ON THAT PORTION OF THE GLAZING THAT IS LESS THAN 20% OF THE TOTAL AREA OF EXTERIOR WALLS INCLUDING DOORS AND WINDOWS. HEATED PORTIONS OF BUILDINGS LOCATED IN ZONES OVER 5000-DEGREE

DAYS MUST BE PROVIDED WITH SPECIAL THERMAL GLAZING IN ALL EXTERIOR WALL AREAS.
DUCT INSULATION SPECIFICATIONS: SUPPLY AND RETURN AIR DUCTS USED FOR HEATING AND/OR COOLING LOCATED IN UNHEATED ATTICS, GARAGES, CRAWL SPACES, OR OTHER UNHEATED SPACES OTHER THAN BETWEEN FLOORS OR INTERIOR WALLS NEED TO BE INSULATED WITH AN R-8 MINIMUM.

HEATING SPECIFICATIONS: EVERY DWELLING UNIT AND GUEST ROOM MUST BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF 70°F (21°C) AT A

FIRE & CARBON MONOXIDE WARNING SYSTEM

THE FOLLOWING ARE TYPICAL MINIMUM RECOMMENDED REQUIREMENTS FOR EMERGENCY WARNING SYSTEMS:

PERMANENTLY WIRED SMOKE DETECTORS ARE REQUIRED AND MUST BE INSTALLED IN EACH SLEEPING ROOM AND AT A POINT CENTRALLY LOCATED IN THE CORRIDOR OR AREA GIVING ACCESS TO EACH SEPARATE SLEEPING AREA. WHEN THE DWELLING UNIT HAS MORE THAN ONE STORY AND IN DWELLINGS WITH BASEMENTS. A DETECTOR SHALL BE INSTALLED ON EACH STORY AND IN BASEMENT. IN DWELLING UNITS WHERE THE CEILING HEIGHT OF A ROOM OPEN TO THE HALLWAY SERVING THE BEDROOMS EXCEEDS THAT OF THE HALLWAY BY 24" OR MORE, SMOKE DETECTORS SHALL BE INSTALLED IN THE HALLWAY AND IN THE ADJACENT ROOM. DETECTORS SHALL SOUND AN ALARM AUDIBLE IN ALL SLEEPING AREAS OF THE DWELLING UNIT IN WHICH THEY ARE LOCATED. DETECTORS MUST HAVE BATTERY BACKUP AND MUST EMIT A SIGNAL WHEN THE BATTERIES ARE LOW. DETECTORS MUST BE WIRED IN SERIES. EVERY DWELLING MUST BE PROVIDED WITH APPROVED DETECTORS OF PRODUCTS OF COMBUSTION MOUNTED ON THE CEILING OR A WALL WITHIN 12" OF THE CEILING AT A POINT CENTRALLY LOCATED IN THE CORRIDOR OR AREA GIVING ACCESS TO AND NOT OVER 12' FROM ROOMS USED FOR SLEEPING. WHERE SLEEPING ROOMS ARE ON AN UPPER LEVEL, THE

DETECTOR MUST BE PLACED AT THE HIGH AREA OF THE CEILING NEAR THE TOP OF THE STAIRWAY. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY 1/2" GYP BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY 5/8" TYPE X GYP BOARD. WHERE THE SEPARATION IS A FLOOR-CEILING ASSEMBLY, THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY 1/2" GYP BOARD.

ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYP BOARD.

DOORS LEADING FROM GARAGE INTO LIVING AREA SHALL BE SOLID WOOD, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1-3/8" THICK OR HAVING A FIRE PROTECTION

RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED. CARBON MONOXIDE ALARMS SHALL BE INSTALLED ON EACH HABITABLE LEVEL OF A DWELLING UNIT EQUIPPED WITH FUEL BURNING APPLIANCES. CARBON MONOXIDE ALARMS SHALL HAVE T10 VOLT PERMANENT POWER WITH BATTERY BACKUP AND SHALL BE INTERCONNECTED WITH THE SMOKE DETECTORS. FIREPLACE CHIMNEYS MUST EXTEND 24 INCHES MINIMUM ABOVE ANY ROOF WITHIN A TEN FEET RADIUS.

WINDOW WELLS
WINDOW WELLS SERVING REQUIRED EGRESS WINDOWS SHALL HAVE DIMENSIONS IN KEEPING WITH THE MINIMUMS REQUIRED FOR THE WINDOWS:

44" INCH MAXIMUM DEPTH WITHOUT STEPS OR LADDER FOR EGRESS 36" HORIZONTAL CLEARANCE FROM FOUNDATION TO FRONT OF WINDOW WELL

36" VERTICAL CLEARANCE REQUIRED FROM ANY PROJECTION IN HORIZONTAL CLEARANCE STATED ABOVE (I.E. BAY WINDOWS OR CANTILEVER).

GRATINGS OR GUARDRAILS PROTECTING WINDOW WELLS SHALL BE EASILY REMOVABLE OR BE DESIGNED SO AS TO NOT HINDER EGRESS. WINDOW WELLS SHALL HAVE A NET CLEAR OPENING OF 9 SQUARE FEET (MIN.)

EXCAVATION, BACKFILL, AND GRADING • ALL EXCAVATIONS FOR FOOTINGS SHALL BE TO NATURAL, UNDISTURBED SOIL

ALL FOOTINGS SHALL BE PLACED ON UNDISTURBED EARTH AND BELOW FROST LINE (30" MINIMUM). TOPS OF FOUNDATION SHALL BE A MINIMUM OF 8 INCHES ABOVE FINISHED GRADE. DO NOT BACKELL LINTIL ELOOR ABOVE HAS BEEN INSTALLED FINISH GRADING SHALL BE DONE SO AS TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS. GRADE SHALL SLOPE AWAY 6 INCHES MINIMUM FOR THE FIRST 0 FEET

IF SOIL IS TO BE PLACED OVER THE CURB, GUTTER, AND SIDEWALK TO ALLOW DRIVING EQUIPMENT OVER THE CONCRETE WITHOUT BREAKING IT, THEN AT LEAST A 4" DIAMETER PIPE

PLUMBING (ALL WORK TO COMPLY WITH THE 2012 IPC) WATER HEATERS ARE TO BE STRAPPED AT THE UPPER ONE THIRD AND LOWER ONE THIRD WITH THE LOWER STRAP NOT CLOSER THAN 4" ABOVE CONTROLS. TOILETS SHALL BE 1.6 GALLON FLUSH TYPE. SHOWER HEADS SHALL BE 2.5 GPM TYPE.

PROVIDE PRESSURE REGULATOR AND SHUT-OFF VALVE.

INTERIOR WASTE AND VENT LINES SHALL BE A.B.S. FREEZE-LESS, BACKFLOW PREVENTION HOSE BIBS \

SSIBLE SHUT OFF VALVES REQUIRED. PLUMBING VENTS SHALL BE AT LEAST 2 FEET ABOVE OR 10 FEET AWAY FROM ALL OUTSIDE AIR INTAKE OPENINGS. NO SLIP JOINT PLUMBING CONNECTIONS ALLOWED IN CONCEALED AREAS.

INDIVIDUALLY INSULATE ALL PLUMBING, WATER, AND DRAIN LINES IN AREAS SUBJECT TO FREEZING

INSTALL EXPANSION TANK FOR WATER HEATER, INSULATE HOT WATER LINES IN UNFINISHED AREAS WITH 1/2" FOAM, HEAT/CHECK VALVES REQUIRED AT WATER HEATER INLET AND

PROVIDE ANTI-SCALD VALVES ON ALL SHOWER AND TUB/SHOWER INSTALLATIONS.

MECHANICAL • MAXIMUM LENGTH OF DRYER EXHAUST DUCT SHALL BE 25'. MAX. LENGTH SHALL BE REDUCED 2.5' FOR EACH 45 DEGREE BEND AND 5' FOR EACH 90 DEGREE BEND. • MAXIMUM LENGTH OF DRYER EXHAUST DUCT SHALL BE 25'. MAX. LENGTH SHALL BE REDUCED 2.5' FOR EACH 45 DEGREE BEND AND 5' FOR EACH 90 DEGREE BEND.

VENTS SHALL TERMINATE 4 FEET BELOW OR 4 FEET HORIZONTALLY AND AT LEAST 1 FOOT ABOVE A DOOR, OPENABLE WINDOW, OR A GRAVITY AIR INLET INTO A BUILDING.
FLUE VENTS AND EXHAUST FAN VENTS SHALL BE AT LEAST 3 FEET ABOVE AN OUTSIDE AIR INLET LOCATED WITHIN 10 FEET AND AT LEAST 4 FEET FROM A PROPERTY LINE. NO CLOTH TYPE DUCT TAPE ALLOWED. METAL OR FOIL TAPE MUST BE USED. ALL JOINTS, TRANSVERSE AND LONGITUDINAL SEAMS AND CONNECTIONS MUST BE PROPERLY SEALED WITH TAPE OR MASTIC. GAS LINES SHALL NOT PASS THROUGH OR PENETRATE ANY DUCT OR PLENUM.

ELECTRICAL BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY DEDICATED 20 AMP BRANCH CIRCUIT WITH NO OTHER OUTLETS. BATHROOM RECEPTACLE OUTLETS SHALL BE 18" MINIMUM FROM COMBUSTIBLES MEASURED HORIZONTALLY. 6" HORIZONTAL IS PERMITTED FOR FLUSH FIXTURES AND FLUORESCENT CLOSET LIGHTING SHALL BE 18" MINIMUM FROM COMBUSTIBLES MEASURED HORIZONTALLY. 6" HORIZONTAL IS PERMITTED FOR FLUSH FIXTURES AND FLUORESCENT

GROUND FAULT CIRCUIT PROTECTION REQUIRED FOR ALL 110 VOLT, SINGLE PHASE 15 AND 20 AMPERE RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, AND OUTDOORS WHERE THERE IS DIRECT GRADE-LEVEL ACCESS TO DWELLINGS AND POWER POLES. GFCI ALSO REQUIRED FOR ALL COUNTERTOP LEVEL KITCHEN RECEPTACLES.

GARAGE OUTLETS MUST BE A MINIMUM OF 18" ABOVE FLOOR. ALL INCANDESCENT LIGHTING FIXTURES RECESSED INTO INSULATED AREAS SHALL BE APPROVED FOR ZERO-CLEARANCE INSULATION COVER (LC.) PER THE 2006 MANDATORY ENERGY REQUIREMENTS. CONDUIT FOR METER BASE SERVICE ENTRANCE SHALL BE ANCHORED TO FOUNDATION WITH UNI-STRUT AND CONDUIT CLAMPS (POWDER ACTUATED FASTENERS ARE NOT ACCEPTABLE). OUTLETS SHALL BE SPACED ACCORDING TO PREVAILING CODES AS A MINIMUM REQUIREMENT. ACTUAL OUTLET LOCATION MAY VARY FROM WHAT PLAN SHOWS.

METALLIC WATER SERVICE OR A CONCRETE ENCASED ELECTRODE AVAILABLE FOR USE AS A GROUNDING ELECTRODE FOR THE HOUSE, WHICH MEETS THE REQUIREMENTS OF THE 2006 PLASTIC ELECTRICAL BOXES IN GARAGE FIRE WALLS TO BE 2 HOUR LISTING. ALL BRANCH CIRCUITS SERVING BEDROOMS SHALL BE ARC-FAULT PROTECTED.





Engineering, Applied Science & Technology

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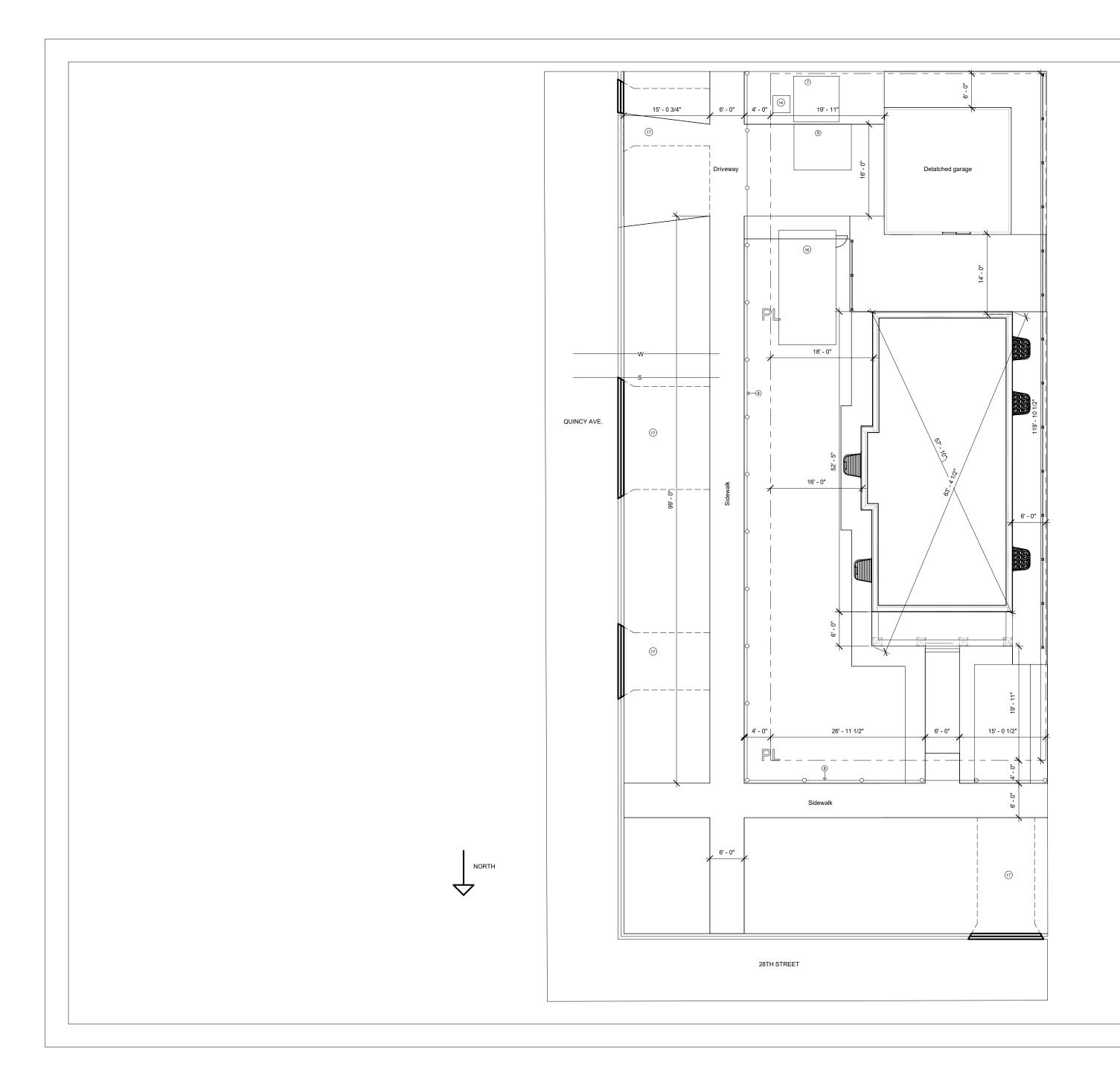
WSU SOLAR DECATHLON HOME

GENERAL NOTES

PROJECT NUMBER SOLAR DECATHLON CLIENT NAME OCT 31, 2019 DATE **DESIGN TEAM** DRAWN BY JEARNER CHECKED BY

002G

SCALE



- General notes:

 1. Overhead power to be determined by Rocky
- Mountain Power. 2. 5% grade away from home for at least 10'.
- 3. The south driveway is to be extended, relocated, and updated to current standards. 4. Trees will be planted in the park strip according to city planning recommendations at
- time of landscaping.
 5. All sidewalks will be replaced to current
- 6. Curb inlet protection will be placed around the nearest storm drains on 28th and Quincy to prevent storm water sediment from
- contaminating the storm water system. 7. 8x8 concrete wash pan. A large sign will designate it as such for all mixer and pump truck drivers to see.
- Temporary fencing will be provided on Quincy and 28th behind the existing sidewalk until the exterior walls are framed and doors/windows are installed to prevent accidental fall risks on site. 9. 8x10 roll off dumpster.
- 10. All site access will be over the exiting driveway on the south end driveway to mitigate sediment (mud) being tracked into the street.
- 11. NO vehicles will be allowed to enter the site except for on the existing driveway for deliveries to mitigate site disturbance.
- 12. Basement spoil stock piles will be protected to prevent erosion into the storm water system. 13. SWPP permit will be posted at the enterance of the site in a water proof container marked SWPP.
- 14. On site porta pottie is to be staked down.15. Trash will be regularly removed from around the site and dumpsters emptied.
- 16. 10x20 connex trailer to store building
- materials and tools.
- 17. Remove existing driveway and approach.
 Replace curb and gutter where approaches were





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NO.	DESCRIPTION	DATE

WSU SOLAR **DECATHLON** HOME

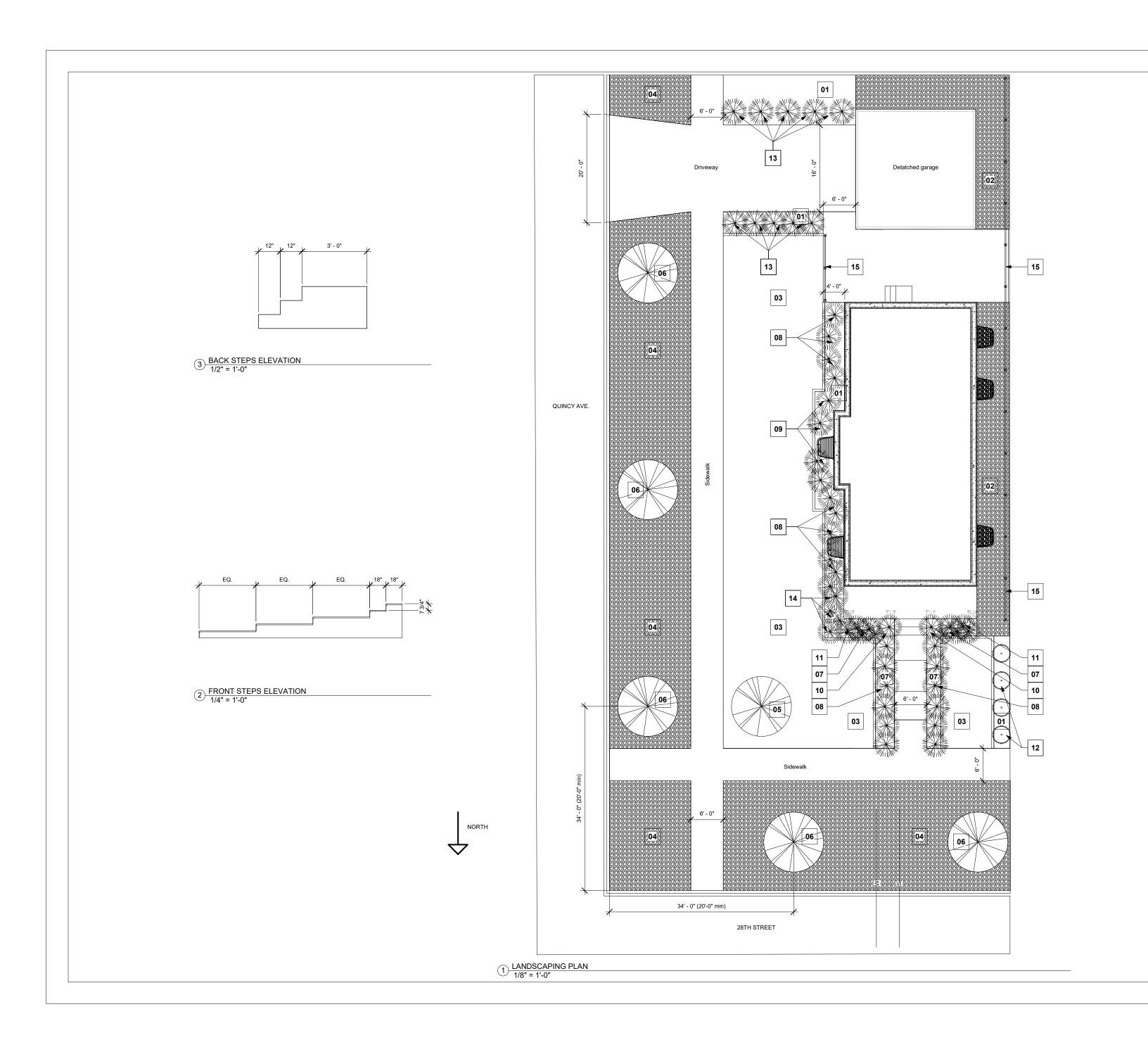
SITE PLAN

PROJECT NUMBER

SOLAR DECATHLON CLIENT NAME OCT 31, 2019 DRAWN BY DESIGN TEAM CHECKED BY

A001

SCALE 1/8" = 1'-0"



LANDSCAPE PLAN KEY NOTES:

01 - Decomposed Granite.

02 - Gravel.

03 - Gramagrass/Buffalograss Seed Blend.

04 - River Rock.

05 - Royal Raindrops or Prarifire or Frofusion Crabapple Tree.

06 - Chanticleer Ornamental Pear.

07 - Twombley's Red Sentine Japanese Maple.

08 - Carol Mackle Daphne Hydrangea.

09 - Alice or Gatsby Oakleaf Hydrangea.10 - Pee Wee Dwarf Oakleaf Hydrangea.

11 - Golden Hakone Japanese Forest Grass.

12 - Miscanthus 'morning light' grass.

13 - Karl Forster Reed Grass.

14 - 3 White Lilacs

15 - 6' White Vinyl Fence.





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WSU SOLAR DECATHLON HOME

LANDSCAPING PLAN

PROJECT NUMBER

CLIENT NAME SOLAR DECATHLON

DATE OCT 31, 2019

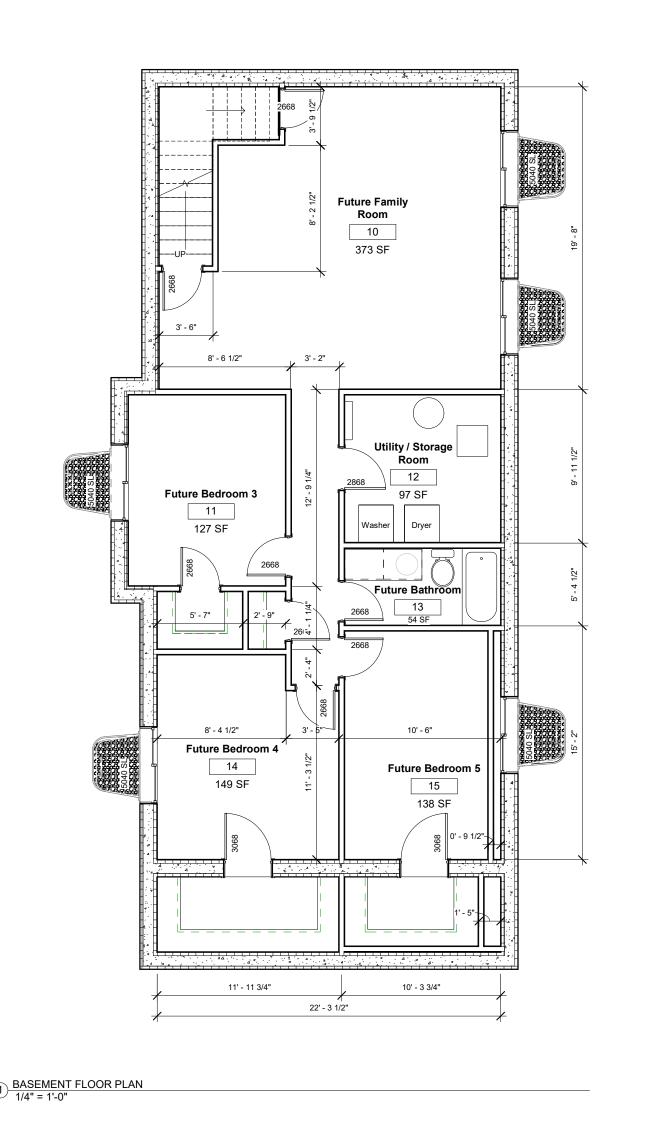
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A002

SCALE As indicated

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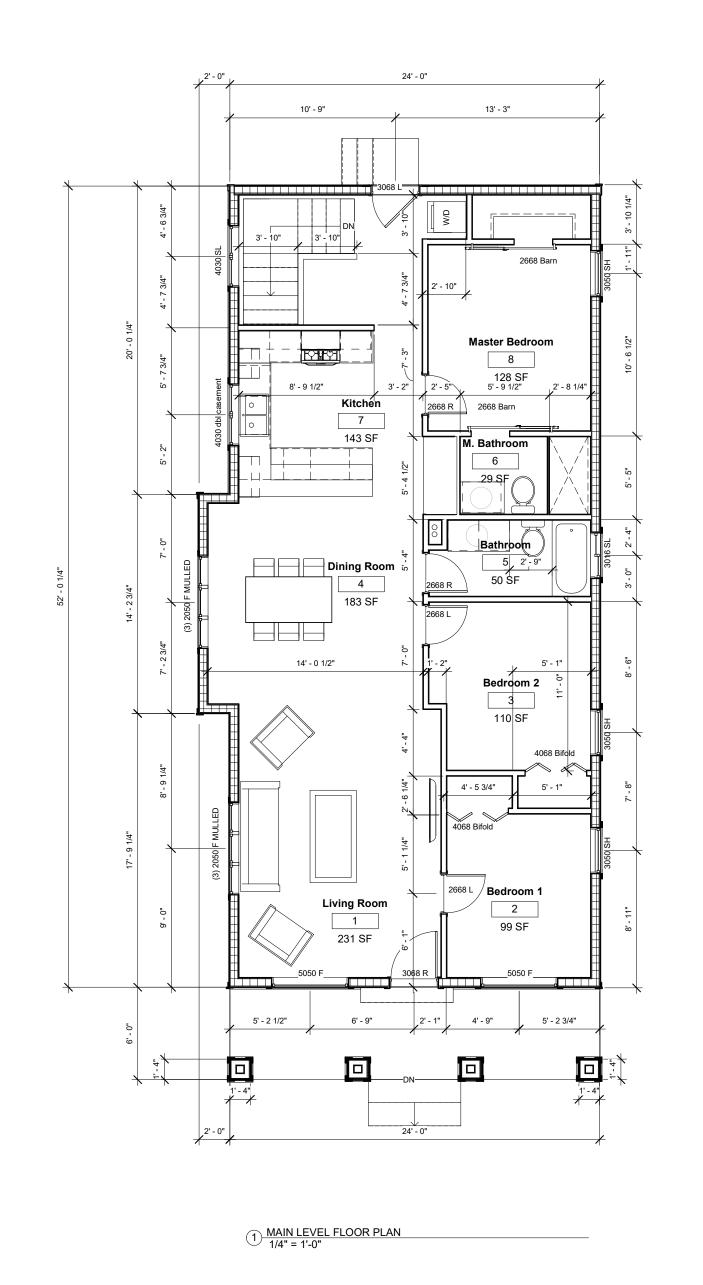
WSU SOLAR DECATHLON HOME

BASEMENT FLOOR PLAN

PROJECT NUMBER
CLIENT NAME SOLAR DECATHLON
DATE OCT 31, 2019
DRAWN BY DESIGN TEAM
CHECKED BY JFARNER

A101

SCALE 1/4" = 1'-0"



DOOR SCHEDULE (BOTH FLOORS)				
DOOR TYPE	DESCRIPTION	WIDTH	HEIGHT	Count
(2) 2068	RIGHT HAND SWING	2' - 6"	6' - 8"	1
2668 BARN	BARN DOOR	2' - 6"	6' - 8"	2
2668R			6' - 8"	12
2668S	EXTERIOR ENTRY DOOR, HALF GLASS	3' - 0"	6' - 8"	1
3068 L Exterior	EXTERIOR ENTRY DOOR, HALF GLASS	3' - 0"	6' - 8"	1
3068 R Exterior	EXTERIOR ENTRY DOOR, HALF GLASS	3' - 0"	6' - 8"	1
3068L	LEFT HAND SWING	3' - 0"	6' - 8"	1
3068R	LEFT HAND SWING	3' - 0"	6' - 8"	1
4068 BIFOLD	INTERIOR - 6 PANEL WOOD BIFOLD	4' - 0"	6' - 8"	2
16070 GARAGE	GARAGE	16' - 0"	7' - 0"	1

WINDOW TAG	QUANTITY	WINDOW TYPE	Sill Height
(3)2050 FIX	6	FIXED	3' - 6"
3016 SL	1	SLIDING	6' - 8"
3050 SH	3	SINGLE HUNG	3' - 6"
4030 DBL C	1	DOUBLE CASEMENT	5' - 6"
4030 SL	1	SLIDING	5' - 6"
5040 FIX	1	FIXED	2' - 0"
5040 SL	6	SLIDING	
5050 FIX	2	FIXED SILL HT ABOVE CAP	1' - 8"
WINDOW WELLS	5		2' - 0"





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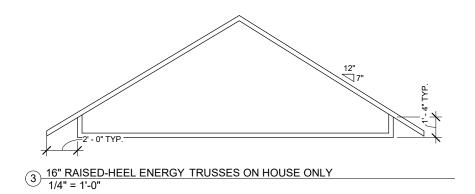
MAIN LEVEL FLOOR PLAN

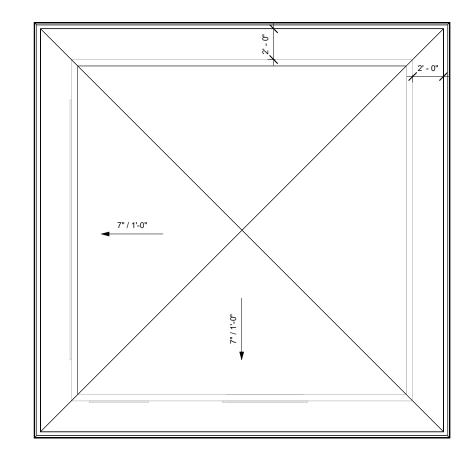
PROJECT NUMBER SOLAR DECATHLON CLIENT NAME DATE DRAWN BY OCT 31, 2019 DESIGN TEAM CHECKED BY JFARNER

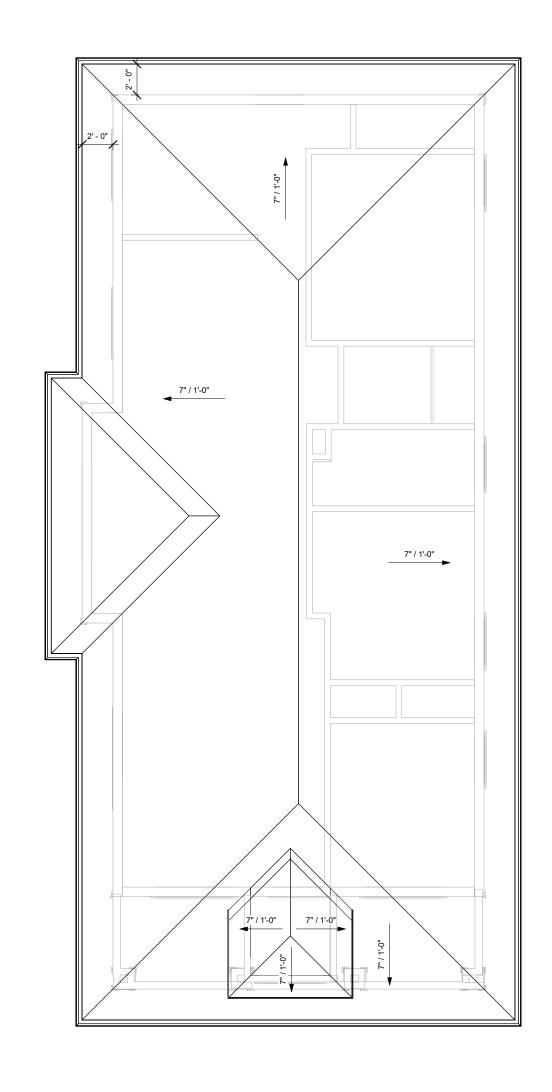
A102

SCALE 1/4" = 1'-0"

CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION







1) MAIN BUILDING ROOF PLAN
1/4" = 1'-0"

CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION





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NO.	DESCRIPTION	DATE

WSU SOLAR DECATHLON HOME

ROOF PLAN

PROJECT NUMBER

CLIENT NAME SOLAR DECATHLON

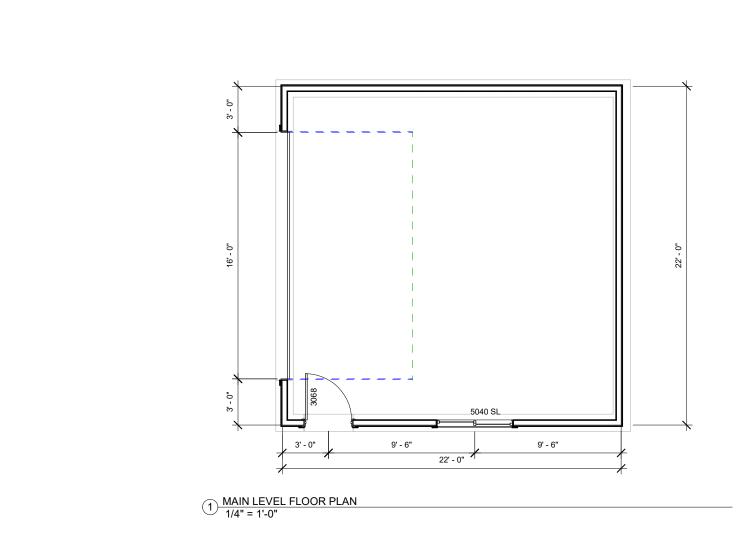
DATE OCT 31, 2019

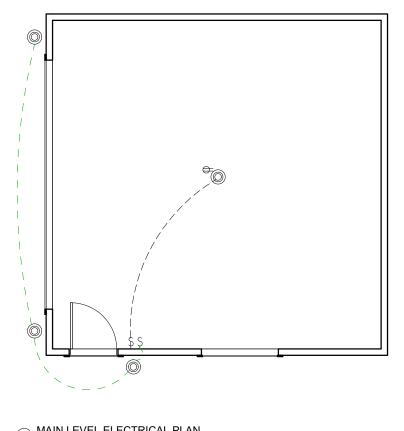
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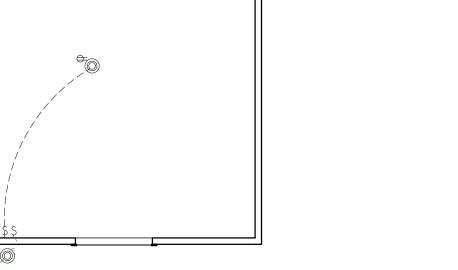
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A105

SCALE 1/4" = 1'-0"











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WSU SOLAR DECATHLON HOME

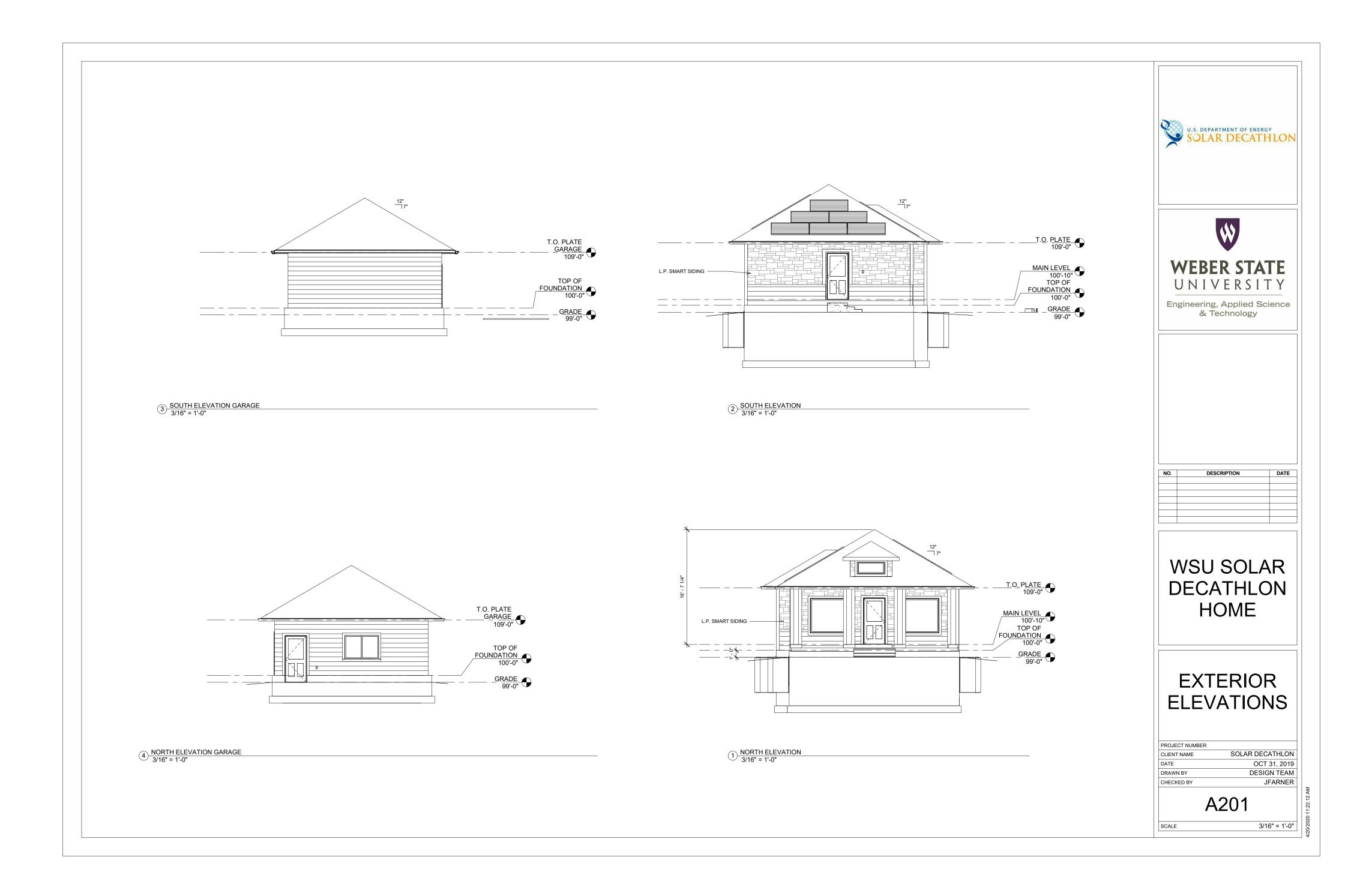
GARAGE FLOOR & ELECTRICAL PLAN

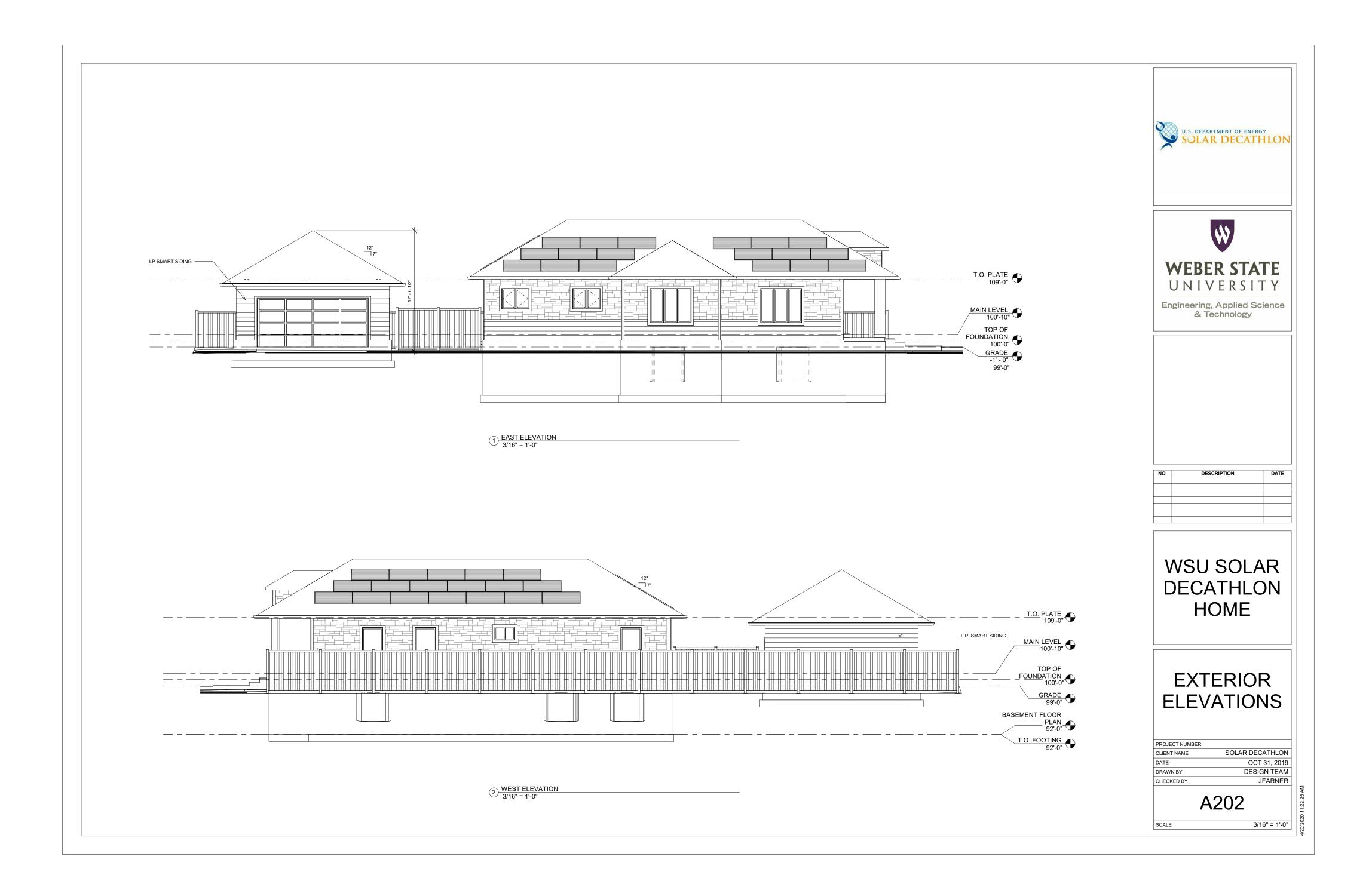
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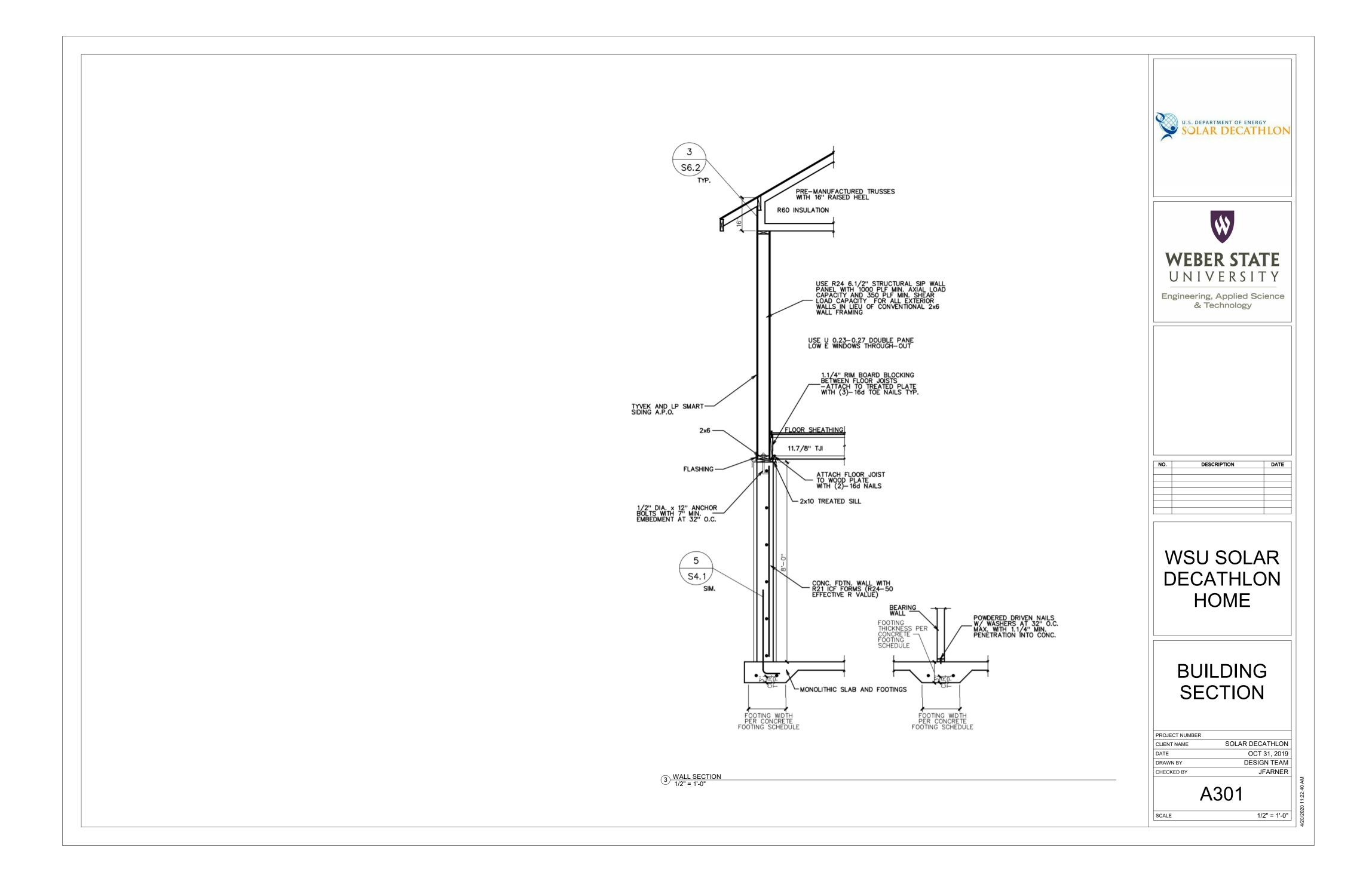
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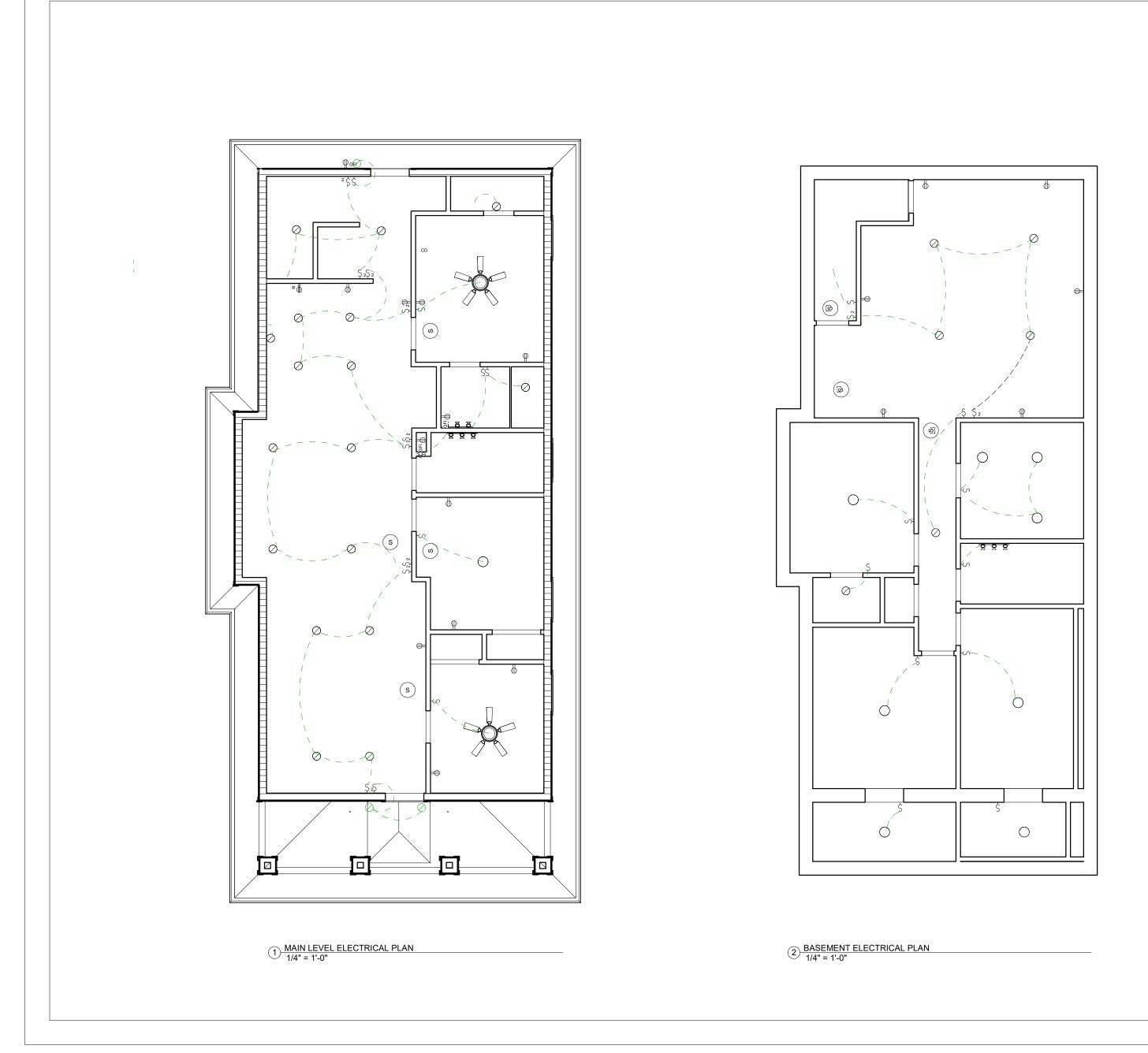
SCALE As indicated

CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION









- GENERAL NOTES

 LOCATION OF ALL ELECTRICAL & HVAC COMPONENTS ARE NOT EXACT UNLESS OTHERWISE NOTED.

 LOCATION OF ALL ELECTRICAL & HVAC COMPONENTS TO BE INSTALLED PER CODE.

 OUTLETS TO BE PLACED PER CODE.

 OUTLETS TO BE PLACED WITH ELECTRICAL WALK-THROUGH STAGE.

 ALL OUTLETS IN WET LOCATIONS TO BE PROTECTED BY GFCI.

 SEE GENERAL NOTES PAGE FOR ELECTRICAL AND HVAC CODE REQUIREMENTS.

 ALL EXITS TO HAVE GFCI OUTLET WITHIN 36" OF DOOR.

 ALL MECHANICAL EQUIPMENT TO BE SIZED BY AN ENGINEERING USING A MANUAL J CALCULATION.

 ALL DUCT WORK TO BE SIZED BY AN ENGINEER USING A MANUAL D CALCULATION.

 COLD AIR RETURN & SUPPLY LOCATIONS TO BE DETERMINED BY HVAC CONTRACTOR.





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WSU SOLAR **DECATHLON** HOME

ELECTRICAL **PLANS**

PROJECT NUMBER SOLAR DECATHLON CLIENT NAME DATE DRAWN BY OCT 31, 2019 DESIGN TEAM JFARNER CHECKED BY

E101

SCALE As indicated

LEGEND: SINGLE SWITCH

- 2-WAY SWITCH

- s SMOKE DETECTOR CARBON DIOXIDE DETECTOR
- CAN LIGHT
- CEILING LIGHT
- (3) LIGHT BAR

CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION



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III. PRE-FABRICATED WOOD TRUSSES:

GENERAL STRUCTURAL NOTES

THE NATURAL UNDISTURBED SOIL BELOW ALL FOOTINGS SHALL BE VERIFIED FOR BEARING SUITABILITY. REMOVE ALL SOFT SPOTS AND REPLACE WITH COMPACTED STRUCTURAL FILL

SOIL BEARING PRESSURE IS ASSUMED TO BE AT LEAST 1500 PSF BY OWNER. NOTIFY THE ENGINEER IF THE SOIL BEARING PRESSURE IS FOUND TO BE LESS THAN 1500 PSF.

ALL FOOTINGS SHALL BE ESTABLISHED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. ALL EXTERIOR FOOTINGS SHALL HAVE A MINIMUM DEPTH OF 30", OR THE LOCAL FROST DEPTH, WHICHEVER IS GREATER, BELOW FINISHED GRADE.

D. COMPACTED STRUCTURAL FILL: ALL FILL MATERIAL SHALL BE A WELL—GRADED GRANULAR MATERIAL WITH A MAXIMUM SIZE LESS THAN 4 INCHES AND WITH NOT MORE THAN 10 PERCENT PASSING A NO. 200 SIEVE. IT SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM LABORATORY DENSITY AS DETERMINED BY ASTM D 1557. ALL FILLS SHALL BE TESTED. COMPACTED STRUCTURAL FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS.

F. SLABS ON GRADE SHALL HAVE CONTROL OR CONSTRUCTION JOINTS AS PER DETAILS.

G. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE FOR FOOTINGS AND FOUNDATIONS SHALL BE 2500 psi FOR COMMERCIAL OR NON-RESIDENTIAL STRUCTURES AND 3000 psi FOR RESIDENTIAL STRUCTURES. USE 4000 psi FOR SUSPENDED SLABS AND ALL OTHER CONCRETE

J. AT CONTRACTOR'S AND/OR OWNER'S OPTION USE EPOXY COATED REBAR IN SUSPENDED SLABS FOR EXTENDED SLAB LIFE.

K. EPOXY BOLTS SHALL BE ALL—THREAD GRADE A307 MIN. SMOOTH SHANK OR EXPANSION BOLTS (WEDGE ANCHORS) SHALL NOT BE USED.

1. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ---- 3" 2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER ---- 1.1/2" 3. FORMED CONCRETE NOT EXPOSED TO EARTH OR WEATHER --- 3/4"

FOR ALL OPENINGS LESS THAN 6'-6" IN CONCRETE FOUNDATION WALLS, PROVIDE A 10" DEEP CONCRETE HEADER WITH (2)—#4 BARS MINIMUM, UNLESS NOTED OTHERWISE. EXTEND BARS 24" MINIMUM BEYOND EDGE OF THE OPENINGS AND PLACE BARS 2" ABOVE TOP OF OPENING. CONTACT THE ENGINEER FOR REINFORCING OF OPENINGS GREATER THAN 6'-6" IF NOT NOTED ON PLANS.

D. FOUNDATION ANCHOR BOLTS SHALL BE 5/8" DIA. x12" MIN. FOR COMMERCIAL OF NON-RESIDENTIAL STRUCTURES AND 1/2" DIA. x10" MIN. FOR RESIDENTIAL STRUCTURES UNLESS NOTED OTHERWISE. SPACING OF ANCHOR BOLTS SHALL BE 32" O.C. MAX. WITH ONE LOCATED AT LEAST WITHIN 4" TO 12" OF EACH END O SILL PLATE. SEE SHEAR WALL SCHEDULE FOR MORE STRINGENT ANCHOR BOLT REQUIREMENTS AT SPECIFIC SHEAR WALLS.

1. PROVIDE 7" MIN. EMBEDMENT INTO CONCRETE. 2. USE 0.229"x3"x3" PLATE WASHERS AT BOLTS FOR PLATE ANCHORAGE. 3. EPOXY BOLTS MAY BE USED IN LIEU OF ANCHOR BOLTS (SEE DETAIL 3/S4.2).

P. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, OR SOIL SHALL CONSIST OF TREATED WOOD OR HAVE A MOISTURE BARRIER PLACED BETWEEN WHICH MEETS THE CODE REQUIREMENTS. FASTENERS INTO TREATED WOOD SHALL BE OF HOT—DIPPED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER.

GLU-LAM TIMBER: 24F-V4 DF/DF
 FRAMING LUMBER: DOUGLAS FIR-LARCH NO. 2 OR BETTER
 SHEATHING: APA RATED (INT. GRADE WITH EXT. GLUE) AS FOLLOWS
WITH THE FOLLOWING MINIMUM NAILING REQUIREMENTS, U.N.O. PLACE ROOF AND
FLOOR SHEATHING IN STAGGERED LAYOUT.

FLOOR: 3/4" THICK TONGUE AND GROOVE OSB PANELS. GLUE AND NAIL ALL PANELS WITH 10d COMMON NAILS AT 6" O.C. AT ALL SUPPORTED EDGES AND BLOCKING, AND AT 10" O.C. AT ALL INTERMEDIATE SUPPORTS. PLACE PANELS WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS CONTINUOUS OVER TWO OR MORE SPANS.

4. 16 GAGE STAPLES WITH 7/16" MIN. CROWN WIDTH AND 1" MIN. PENETRATION INTO SUPPORTING FRAMING MEMBERS MAY BE USED IN LIEU OF NAILS AT A SPACING OF ONE-HALF THAT DESIGNATED FOR NAILS.

ADDITIONALLY, SUPPORT STUDS SHALL AT LEAST MATCH THE WIDTH OF THE BEAM, HEADER, AND GIRDER TRUSS AND THE WIDTH OF THE SUPPORTING WALL.

FOR SPANS OF 6'-0" AND GREATER, AT EXTERIOR WALLS, PROVIDE A MINIMUM OF 2 FULL HEIGHT KING STUDS (TOP PLATE TO BOTTOM PLATE) AT THE ENDS OF ALL BEAMS, UNLESS NOTED OTHERWISE. FOR SPANS LESS THAN 6'-0", PROVIDE A MINIMUM OF 1 FULL HEIGHT KING STUD.

E. ALL WOOD POSTS SHALL HAVE APPROPRIATE SIMPSON POST CAPS AND BASE CONNECTORS INSTALLED GOOD FOR AT LEAST 900 POUNDS UPLIFT. WOOD POSTS INSTALLED ON CONCRETE SHALL HAVE AT LEAST A 1" STANDOFF BASE. WHERE POSTS ARE INSTALLED ON CONC. PIERS OR FOOTINGS SEE DETAILS 9/S4.1, 10/S4.1 AND 8/S4.2 FOR ADDITIONAL INFORMATION.

USE APPROPRIATE SIMPSON HANGERS WHERE JOISTS AND BEAMS NEED TO HANG FROM SUPPORTING BEAMS. USE TOP FLANGE HANGERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS, AS PER DETAIL 10/S5.2.

3. ALL METAL CONNECTORS, STRAPS, HOLDOWNS, HANGERS, ETC. CALLED OUT ON THE DRAWINGS SHALL BE INSTALLED WITH APPROPRIATE NAILS, SCREWS, BOLTS, ATTACHMENTS, ETC. AS PER THE MANUFACTURER'S RECOMMENDATIONS.

SYMBOL / ABBREVIATION

 \boxtimes

 \boxtimes

DESCRIPTION

BRICK/NATURAL STONE

CONC. FDTN. WALL

2x6 BEARING WALL

x4 BEARING WALL

HEADER/BEAM

6x6 POST

2x6 NON-BEARING WALL

x4 NON-BEARING WALL

2x6 NON-BEARING SHEAR WALL

x4 NON-BEARING SHEAR WALL

NOTCH IN TOP OF FDTN. WALL

. PROVIDE SUPPORT STUDS AT THE ENDS OF ALL BEAMS, HEADERS, AND GIRDER TRUSSES AS FOLLOWS, UNLESS NOTED OTHERWISE:

SPANS LESS THAN 5'-0": 1 SUPPORT STUD MINIMUM. SPANS 5'-0" TO 10'-0": 2 SUPPORT STUDS MINIMUM. SPANS 10'-0" TO 14'-0": 3 SUPPORT STUDS MINIMUM. SPANS GREATER THAN 14'-0": 4 SUPPORT STUDS MINIMUM.

D. USE APPROPRIATE SIMPSON POST CAPS / TIES TO CONNECT BEAMS TO POSTS / STUDS FOR SPANS OF 6'-0" AND GREATER.

WALL LEGEND AND ABBREVIATIONS

DESCRIPTION

"CONTROL/CONSTRUCTION JOINT

'ANCHOR BOLT'

'AS PER OWNER'

"ABOVE"

'BELOW''

'BEARING'

'CONCRETE'

'DETAIL" "FACH"

"CONTINUOUS"

"FOUNDATION"

"GLU-LAM BEAM"

"FOOTING"

"MAXIMUM"

"MINIMUM"

"ON CENTER"

"OPPOSITE"

"SIMILAR"

"TYPICAL"

"UNLESS NOTED OTHERWISE"

7/16" THICK OSB PANELS. UNLESS NOTED OTHERWISE IN THE SHEAR WALL SCHEDULE, NAIL ALL PANELS WITH 8d COMMON NAILS AT 4" O.C. AT ALL EDGES AND AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS.

5/8" THICK OSB PANELS WITH A 32/16 SPAN RATING (7/16" THICK PANELS WITH 24/16 SPAN RATING MAY BE USED FOR RESIDENTIAL BUILDINGS WITH SNOW LOADS NOT MORE THAN 40 PSF). NAIL ALL PANELS WITH 10d COMMON NAILS AT 6" O.C. AT ALL SUPPORTED EDGES, BLOCKING, TRUSS DRAG STRUTS, AND GABLE END WALLS/TRUSSES, AND AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS, PLACE PANELS WITH LONG DIMENSIONS PERPENDICULAR TO SUPPORTS CONTINUOUS OVER TWO OR MORE SPANS. (8d NAILS MAY BE USED WITH 7/16" PANELS).

M. REINFORCEMENT STEEL SHALL HAVE THE FOLLOWING MINIMUM LAP SPLICE LENGTHS, UNLESS NOTED OTHERWISE ON DRAWINGS

. REINFORCEMENT STEEL SHALL MEET THE FOLLOWING CONCRETE COVER REQUIREMENTS:

. ALL CONCRETE SLABS SHALL BE PLACED OVER 4" MINIMUM FREE DRAINING GRANULAR BASE OVER UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL.

CONCRETE, FOOTINGS, AND FOUNDATIONS:

H. REINFORCEMENT STEEL SHALL BE GRADE 60 (Fy = 60 KSI).

1. 30 BAR DIA. FOR #3 AND #4 BARS 2. 40 BAR DIA. FOR #5 THRU #8 BARS

II. WOOD FRAMING:

A. MATERIALS:

SYMBOL / ABBREVIATION

A.B.

ABV.

BLW.

BRG.

C.J.

CONC.

CONT.

DET.

EA.

FDTN.

G.L.B.

FTG.

O.C.

OPP.

TYP.

U.N.O.

A.P.O.

A. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THE TRUSSES. THE TRUSSES SHALL BE DESIGNED TO MEET THE MINIMUM LOAD AND CODE REQUIREMENTS FOR THE GIVEN LOCALITY OF CONSTRUCTION AND SHALL BE APPROVED BY A LICENSED ENGINEER.

I. IF TRUSSES ARE UNABLE TO BE DESIGNED TO WORK WITH THE LAYOUT AS SHOWN IN THE DRAWINGS (INCLUDING ATTIC BONUS ROOMS, VAULTED CEILINGS, RAISED CEILINGS, ETC.), NOTIFY THE DESIGNER AND CONTRACTOR FOR RESOLUTION BEFORE PROCEEDING WITH FABRICATION OF TRUSSES.

THE DESIGN AND BEARING OF TRUSSES SHALL BE COORDINATED WITH THE DRAWINGS. SEE WALL LEGEND ON SHEET S1.1 AND OTHER NOTES ON DRAWINGS FOR LOCATIONS OF BEARING WALLS. DO NOT DESIGN TRUSSES TO BEAR ON NON—BEARING WALLS.

O. TRUSSES THAT EXTEND OUT OVER EXTERIOR BEARING WALLS TO COVER A PORCH, PATIO, OR DECK SHALL BE DESIGNED TO BEAR ON THE EXTERIOR BEARING WALLS TO TRANSFER LOAD AWAY FROM THE PORCH, PATIO, OR DECK BEAMS, UNLESS NOTED OTHERWISE.

E. AT ROOF OVERBUILD AREAS PROVIDE OVERBUILD TRUSSES AS PER TRUSS MANUFACTURER OR STICK FRAME AS PER DETAIL 6/S6.2

IV. STRUCTURAL STEEL:

A. ALL WORK IS TO BE CONSISTENT WITH BEST BUILDING PRACTICES AND CONFORM TO LOCAL BUILDING CODE REQUIREMENTS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE STARTING CONSTRUCTION.

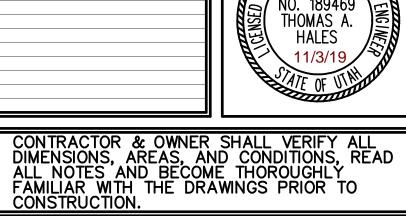
B. THE OWNER AND ALL CONTRACTORS INVOLVED WITH THE PROJECT SHALL THOROUGHLY REVIEW AND BECOME FAMILIAR WITH THESE DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.

C. ALL OMISSIONS OR CONFLICTS, INCLUDING DIMENSIONS, BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS, DETAILS, AND/OR NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT SHOWN.

VII. ADDITIONS AND REMODELS:

A. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING CONSTRUCTION. DIMENSIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED WITHIN REASON, TO WORK WITH EXISTING CONDITIONS. ANY OMISSION OR CONFLICT OF INFORMATION BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, OR ANY DETRIMENTAL CONDITIONS DISCOVERED DURING THE COURSE OF CONSTRUCTION, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

ENGINEER'S STAMP PERTAINS TO STRUCTURAL INFORMATION ONLY ROOF FRAMING DETAILS
ROOF FRAMING DETAILS S6.2 S6.3 NOT USED



BEARING AND EXTERIOR WALLS SHALL BE CAPPED WITH DOUBLE TOP PLATES. END JOINTS OF SPLICES IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 48" O.C. AND NAILED WITH 16d NAILS AT 4" O.C. WITHIN THE OVERLAPPED LENGTH. OVERLAP THE PLATES AT CORNERS AND AT INTERSECTIONS.

. EXTERIOR WALLS SHALL HAVE SHEATHING PROVIDED AND NAILED AS PER THE SHEAR WALL SCHEDULE AND GENERAL NOTES TO FUNCTION AS SHEAR OR BRACED WALLS.

. ATTACH ALL ROOF TRUSSES AND RAFTERS TO ALL BEARING WALLS AND BEAMS WITH SIMPSON H1 ANCHORS, UNLESS NOTED OTHERWISE. PROVIDE SOLID BLOCKING BETWEEN TRUSSES.

M. UNLESS NOTED OTHERWISE ON DRAWINGS, NAILING OF ALL STRUCTURAL MEMBERS SHALL COMPLY WITH TABLES R602.3(1) TO R602.3(5).

S. SHOP DRAWING SUBMITTAL: CONTRACTOR SHALL SUBMIT COMPLETE CALCULATIONS AND SHOP DRAWINGS SHOWING PROPOSED TRUSS LAYOUT AND DESIGN TO BE REVIEWED BY THE ENGINEER BEFORE FABRICATION. THE REVIEW PERFORMED BY THE ENGINEER SHALL BE FOR GENERAL CONFORMANCE TO THE DESIGN CONCEPT ONLY. CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS OR OF THE TRUSS SPECIFICATIONS. ALSO, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY PROPOSED DEVIATIONS FROM THE DESIGN CONCEPT SHOWN IN THESE PLANS.

A. MATERIALS:

1. WIDE FLANGE SECTIONS: ASTM A572 (50 ksi)
2. TUBES: ASTM A500 (46 ksi)
3. PIPE COLUMNS: ASTM A53, TYPES E OR S, GRADE B
4. OTHER SHAPES AND PLATES: ASTM A36
5. DEFORMED BAR ANCHORS (DBA): ASTM A496
6. HEADED STUD ANCHORS (HSA): ASTM A108
7. BOLTED CONNECTIONS: ASTM A325
8. ANCHOR BOLTS: ASTM A307

B. FABRICATION AND CONSTRUCTION SHALL COMPLY WITH THE LATEST IBC AND AISC CODES.

V. BRICK VENEER:

BRICK VENEER SHALL BE ATTACHED TO THE SUPPORTING WALL WITH CORROSION—RESISTANT METAL TIES. WHERE VENEER IS ANCHORED THROUGH THE USE OF CORRUGATED SHEET METAL TIES, THE TIES SHALL BE NO. 22 U.S. GAGE BY 7/8" MINIMUM AND THE DISTANCE SEPARATING THE VENEER FROM THE FACE OF THE SUPPORTING WALL SHALL BE A MAXIMUM OF 1 INCH. WHERE THE VENEER IS ANCHORED THROUGH THE USE OF METAL STRAND WIRE TIES, THE TIES SHALL BE NO. 9 U.S. GAGE WIRE MINIMUM AND THE DISTANCE SEPARATING THE VENEER FROM THE FACE OF THE SUPPORTING WALL SHALL BE A MAXIMUM OF 4.5 INCHES. TIES SHALL BE SPACED SO THEY INDIVIDUALLY SUPPORT NOT MORE THAN 2 SQUARE FEET OF VENEER AREA AND SHALL NOT BE SPACED MORE THAN 24 INCHES ON CENTER HORIZONTALLY AND VERTICALLY.

B. SEE THE BRICK VENEER STEEL ANGLE LINTEL SCHEDULE FOR BRICK SUPPORT OVER WALL OPENINGS.

C. PROVIDE FOR BRICK OR STONE VENEER INSTALLATIONS AT THE FOUNDATION CORROSION RESISTANT FLASHING EXTENDING UP A MINIMUM OF 3 COURSES WITH 3/16" WEEP HOLES EVERY 33" O.C. AND SUCH FLASHING MUST EXTEND 1/2" BEYOND THE FOUNDATION. THIS FLASHING IS REQUIRED WHERE STUCCO WEEP SCREEDS DO NOT EXTEND PAST FOUNDATIONS. FLASHING WHICH DO NOT EXTEND BEYOND OR BELOW THE FOUNDATION WILL NOT BE ACCEPTABLE. (ICE & WATER SHIELD OR SIMILAR MATERIALS).

VI. SPECIAL NOTES:

D. COPYRIGHT NOTICE: THESE DRAWINGS, PLANS, DETAILS, SCHEDULES, AND NOTES ARE COPYRIGHTED BY THE DESIGNER AND ENGINEER, ALL RIGHTS RESERVED. THESE DOCUMENTS SHALL NOT BE REPRODUCED, OR COPIED, IN WHOLE OR IN PART.

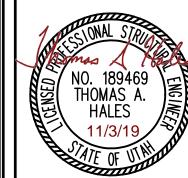
B. ONLY THE NEW AREAS OF CONSTRUCTION HAVE BEEN CHECKED TO MEET LOCAL STRUCTURAL CODES. THERE HAS BEEN NO ATTEMPT TO CHECK THE EXISTING STRUCTURE FOR INADEQUACIES OR WHETHER THEY MEET LOCAL STRUCTURAL CODES. THE OWNER ASSUMES ALL LIABILITIES OR RISKS ASSOCIATED WITH THE EXISTING STRUCTURE AND ITS INTEGRATION WITH NEW AREAS OF CONSTRUCTION.

C. TIE ALL NEW FOOTING AND FOUNDATION WALLS TO EXISTING FOOTING AND FOUNDATION WALLS WITH EPOXY DOWELED REBAR. —SEE DETAIL 4/S4.2

D. CONTRACTOR SHALL FIELD VERIFY THAT EXISTING ROOF FRAMING IS IN GOOD CONDITION BEFORE STARTING CONSTRUCTION. NOTIFY THE ENGINEER IF STRUCTURAL CONCERNS EXIST.

SHEET	DESCRIPTION
S1.1	INDEX, GENERAL STRUCTURAL NOTES, SCHEDULES
S2.1	ELEVATIONS
S2.2	BASEMENT AND FOUNDATION PLAN (FLOOR FRAMING)
S2.3	MAIN FLOOR PLAN (ROOF FRAMING)
S3.1	ROOF LAYOUT, ELECTRICAL PLAN, AND STAIR DETAIL
S4.1	FOOTING AND FOUNDATION DETAILS
S4.2	FOOTING AND FOUNDATION DETAILS
S5.1	FLOOR FRAMING DETAILS
S5.2	FLOOR FRAMING DETAILS

SHEET INDEX



S

SCHEDULES

NOTES,

TRUCTURAL

METAL HOLDOWN SCHEDULE SIMPSON HOLDOWN **ATTACHMENT** COMMENTS STHD10, STHD14, HTT4, OR HDU4 MAY BE USED IN LIEU OF LSTHD8 (20)-16d SINKER NAILS STHD10 OR2 STHD10RJ (RIM JOIST) STHD14, HTT4, OR HDU4 MAY BE USED IN LIEU OF STHD10 (28)-16d SINKER NAILS STHD14 OR ² STHD14RJ (RIM JOIST) STHD14 OR² STHD14RJ HTT4 OR HDU5 MAY BE USED IN LIEU OF STHD14 (30)-16d SINKER NAILS (18)—16d NAILS WITH 5/8" DIA. A307 ALL—THREAD ROD EPOXIED 8" MIN. INTO TOP OF FDTN. SEE DETAIL 5/S4.2 FOR EPOXY ATTACHMEN (10)—SDS1/4x2.1/2 SCREWS WITH 5/8" DIA. A307 ALL—THREAD ROD EPOXIED 8" MIN. INTO TOP OF FDTN. HDU4 HDU4-SDS2.5 HDU5 HDU5-SDS2.5 SEE DETAIL 5/S4.2 FOR EPOXY ATTACHMEN (20)—SDS1/4x3 SCREWS WITH 7/8" DIA. A307 THREAD ROD EPOXIED 11" MIN. INTO TOP OF FDTN. SEE DETAIL 5/S4.2 FOR EPOXY ATTACHMENT HDQ8 METAL HOLDOWN NOTES:

1. ALL HOLDOWNS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. SEE DETAILS 5 AND 9/S4.2 2. USE RIM JOIST MODEL OF STRAP IF STRAP IS LOCATED AT A RIM JOIST, OTHERWISE, A NON—RIM JOIST MODEL MAY BE USED.

CONCRETE FOUNDATION WALL SCHEDULE									
			WALL R	EINFORCING					
MARK	WDTH ⁸	MAX. HEIGHT ^{2,4,5}	VERTICAL ⁶	HORIZONTAL ^{1,3}	COMMENTS				
CFW2.0NR	8" MIN.	MEET MIN. FROST DEPTH	#4 AT 18" O.C.	#4 AT 12" O.C.	SEE DETAIL 7 OR 11/S4.1				
CFW3.0	8" MIN.	MEET MIN. FROST DEPTH	#4 AT 24" O.C.	#4 AT 12" O.C.	SEE DETAIL 7 OR 11/S4.1				
CFW4.0	8" MIN.	4'-0"	#4 AT 24" O.C.	#4 AT 15" O.C.	SEE DETAIL 6/S4.1				
CFW6.0	8" MIN.	6'-0"	#4 AT 24" O.C.	#4 AT 18" O.C.	SEE DETAIL 5/S4.1				
CFW8.0	8" MIN.	8'-0"	#4 AT 24" O.C.	#4 AT 19" O.C.	SEE DETAIL 5/S4.1				
CFW9.0	8" MIN.	9'-0"	#4 AT 16" O.C.	#4 AT 18" O.C.	SEE DETAIL 5/S4.1				
CFW10.0	8" MIN.	10'-0''	#4 AT 9" O.C.	#4 AT 12" O.C.	SEE DETAIL 5/S4.1				

ONCRETE FOUNDATION WALL NOTES:

LOCATE A HORIZONTAL BAR WITHIN 4" OF TOP AND BOTTOM OF WALL.

WALL HEIGHT MAY BE INCREASED AS NEEDED WHERE FOOTINGS NEED TO BE DROPPED FOR FROST PROTECTION OR SOIL CONDITIONS AS LONG AS UNBALANCED WALL HEIGHT (HEIGHT BETWEEN LOW AND HIGH GRADE) DOES NOT EXCEED THAT SHOWN. ADD ADDITIONAL HORIZONTAL REBAR AS NEEDED TO NOT EXCEED SPACING SHOWN.

UNLESS NOTED OTHERWISE, PLACE HORIZONTAL REINFORCING IN THE CENTER OF THE WALL THICKNESS.
PLACE VERTICAL REINFORCING ON INTERIOR SIDE OF HORIZONTAL REINFORCING.

PROVIDE NOTCHES AND DROPS IN TOPS OF FOUNDATION AS NOTED ON PLANS AND WHERE REQUIRED FOR DOOR OPENINGS AND WHERE CONCRETE SLABS POUR OVER THE TOP OF FOUNDATION WALLS.

SEE DRAWINGS FOR ACTUAL HEIGHT.

PROVIDE VERTICAL REBAR DOWELS TO MATCH VERTICAL WALL REBAR SIZE AND SPACING TO TIE FTG. TO FDTN. WALL. SOIL BACKFILL SHALL BE SOIL CLASSIFICATION TYPES GW, GP, SW, OR SP PER IBC TABLE 1610.1. SOIL SHALL NOT BE SUBMERGED OR SATURATED IN GROUND WATER.

SEE PLAN FOR ACTUAL WALL WIDTH.

	WOOD BEAM/HEADER SCHEDULE 4,6										
MARK ¹	SIZE ^{2,3}	COMMENT	MARK ¹	SIZE ^{2,3}	COMMENTS						
		USE FOR BEAM/HEADER SPANS UP TO 5'-2" THAT ARE NOT NOTED	WB2-5.5LVL	(2)-1.3/4"x5.1/2" LVL							
WD0 /7 ODE ⁴	(2)-2x8 FOR 2x4 WALLS	OTHERWISE IN RASEMENTS WITH CEILING	WB2-7.25LVL	(2)-1.3/4"x7.1/4" LVL							
WB2/3-8DF	OF 4 (2)-2x8 FOR 2x4 WALLS (3)-2x8 FOR 2x6 WALLS	HEIGHTS LESS THAN 7'-10" (FOR CEILING HEIGHTS GREATER THAN 7'-10" USE WB2/3-10DF) -SEE NOTE 4 BELOW -HEADERS MAY BE RECESSED INTO WALL	WB2-9.5LVL	(2)-1.3/4"x9.1/2" LVL							
		-HEADERS MAY BE RECESSED INTO WALL DOUBLE TOP PLATE AS REQUIRED FOR WINDOW HEIGHTS -SEE DETAIL 10/S6.1	WB2-11.88LVL	(2)-1.3/4"x11.7/8" LVL							
WD2 /7 10DE ⁴	(2)-2x10 FOR 2x4 WALLS (3)-2x10 FOR 2x6 WALLS		WB2-14LVL	(2) 1.3/4"x14" LVL							
WB2/3- 10DF	(3)-2x10 FOR 2x6 WALLS	USE FOR BEAM/HEADER SPANS UP TO 5'-2" THAT ARE NOT NOTED OTHERWISE -SEE NOTE 4 BELOW	WB2-16LVL	(2)-1.3/4"x16" LVL							
WB2-6DF	(2)-2x6 DF#2	WB2-5.5LVL MAY BE USED AS ALTERNATE	WB2 18LVL	(2) 1.3/4"x18" LVL							
WB2-8DF	(2)-2x8 DF#2	WB2-7.25LVL MAY BE USED AS ALTERNATE	WB3-5.5LVL	(3)-1.3/4"x5.1/2" LVL							
WB2-10DF	(2)-2x10 DF#2	WB2-7.25LVL MAY BE USED AS ALTERNATE	WB3-7.25LVL	(3)–1.3/4"x7.1/4" LVL							
WB2-12DF	(2)-2×12 DF#2 WB2-9.5LVL MAY BE USED AS ALTERNATE		WB3-9.5LVL	(3)–1.3/4"x9.1/2" LVL							
WB3-6DF	(3)-2x6 DF#2	WB3-5.5LVL MAY BE USED AS ALTERNATE	WB3-11.88LVL	(3)-1.3/4"x11.7/8" LVL							
WB3-8DF	(3)-2x8 DF#2	WB3-7.25LVL MAY BE USED AS ALTERNATE	WB3 14LVL	(3)– 1.3/4"x14" LVL							
WB3-10DF	(3)-2x10 DF#2	WB3-7.25LVL MAY BE USED AS ALTERNATE	WB3-16LVL	(3)– 1.3/4"×16" LVL							
WB3-12DF	(3)-2x12 DF#2	WB3-9.5LVL MAY BE USED AS ALTERNATE	WB3 18LVL	(3)-1.3/4"x18" LVL							

1. BEAM MARKS WITH "DF" DESIGNATES THE USE OF DOUGLAS FIR-LARCH NO. 2 OR BETTER STANDARD LUMBER. BEAM MARKS WITH "LVL" DESIGNATES THE USE OF ENGINEERED LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES: F_b = 2600 psi, F_v = 285 psi, F_{c1}= 750 psi, E = 1.9x10⁶ psi.

2. "DF" BEAM SIZES SHOWN ARE NOMINAL AND HAVE SMALLER ACTUAL BEAM DIMENSIONS AS BASED ON STANDARD LUMBER. PROVIDE 1/2" PLYWOOD OR OSB BETWEEN INDIVIDUAL BEAM-PLYS TO CREATE A BEAM THICKNESS TO MATCH THE WALL THICKNESS.

3. MULTIPLE MEMBER BEAMS/HEADERS SHALL BE NAILED TOGETHER WITH A MINIMUM OF 2 ROWS OF 16d NAILS AT 12" O.C. FOR BEAM DEPTHS 12 IN. OR LESS USE 3 ROWS OF 16d NAILS AT 12" O.C. FOR BEAM DEPTHS GREATER THAN 12 IN. 4. CONTACT THE ENGINEER FOR BEAM/HEADER SIZES WITH SPANS GREATER THAN 5'-2" THAT ARE NOT NOTED ON THE DRAWINGS.

5. "FLUSH", WHEN NOTED ON PLANS, INDICATES TO PLACE THE BEAM SO THAT THE TOP AND/OR BOTTOM OF THE BEAM IS FLUSH WITH THE SUPPORTED FRAMING. 6. DO NOT USE LVL BEAMS WHERE THEY MAY BE EXPOSED TO WEATHER (E.G. DECK FRAMING).

	SHEAR WALL SCHEDULE									
	SHEAR WALL CO	NSTRUCTION		PANEL ATTACHMENT			WALL ANCHORAGE		COMMENTS	
WALL MARK	PANEL ^{5,6} MATERIAL	SIDES	PANEL ² EDGES	PANEL FASTENER 3,9	EDGE NAILING	FIELD NAILING	ANCHOR BOLT/1,7 FASTENER	SPACING		
SW1	1/2" GYPSUM WALLBOARD 4	BOTH SIDES	BLOCKED	NO. 6x1.1/4" SCREWS	4" O.C.	16" O.C.	16d NAILS	4" O.C.	USE SW4 AS ALTERNATE	
SW2	7/16" OSB SHEATHING	ONE SIDE	BLOCKED	8d NAILS	4" O.C.	12" O.C.	5/8" x12" A.B.	32" O.C.	SEE NOTE 8 BELOW	
SW3	7/16" OSB SHEATHING 11	BOTH SIDES	BLOCKED	8d NAILS	4" O.C.	12" O.C.	NON-RESIDENTIAL 1/2" ×10" A.B.	16" O.C.	SEE NOTE 8 & 11 BELOW	
SW4	3/8" OR 7/16" OSB SHEATHING	ONE SIDE	BLOCKED	8d NAILS	6" O.C.	12" O.C.	RESIDÊNTIAL	32" O.C.	SEE NOTE 8 BELOW	
SW5	7/16" OSB SHEATHING	BOTH SIDES	BLOCKED	SEE DETAIL 5/S5	2	SEE NOTE 8 BELOW				

SHEAR WALL NOTES:

1. ANCHOR BOLTS SHALL HAVE 7" MIN. EMBEDMENT (ALL—THREAD EPOXY BOLTS W/ 7" MIN. EMBEDMENT MAY BE USED IN LIEU OF A.B. —SEE 3/S4.2)

2. PROVIDE SOLID BLOCKING AT ALL PANEL EDGES FOR WALLS INDICATED TO BE 'BLOCKED'

3. SCREWS FOR WALLBOARD SHALL BE TYPE 'W' OR 'S' DRYWALL SCREWS (5d COOLER OR WALLB'D NAILS MAY BE USED IN LIEU OF SCREWS)

4. USE 5/8" FIRE—RATED WALLBOARD WHERE REQUIRED FOR FIRE SEPARATION.

5. 3/8" OR 7/16" OSB SHEATHING ON ONE SIDE OF WALL MAY BE USED IN LIEU OF GYPSUM WALLBOARD FOR ALL SHEAR/BRACED WALLS USING GYPSUM WALLBOARD NOTED ABOVE. ATTACH W/ 8d NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. IN—FIELD. SOLID BLOCK.

6. OSB SHEATHING SHALL BE APA RATED (INT. GRADE WITH EXT. GLUE) WITH A MINIMUM 24/O SPAN RATING.

7. USE 16d NAILS AT 4" O.C. WALL ANCHORAGE WHEN WALL RESTS ON WOOD FLOOR FRAMING AND NOT DIRECTLY ON FOUNDATION WALL OR FOOTING. PROVIDE SOLID BLOCKING BELOW FLOOR SHEATHING.

8. TO HELP RESIST SEISMIC/WIND FORCES, ALL SHEAR WALLS SHALL BE ATTACHED TO THE TOP AND BOTTOM BY ONE OF THE METHODS SHOWN IN THE DETAILS ON SHEET S4.1 THRU S6.3, U.N.O.

9. 16 GAGE STAPLES WITH 7/16" MIN. CROWN WIDTH AND 1" MIN. PENETRATION INTO SUPPORTING FRAMING MEMBERS MAY BE USED IN LIEU OF NAILS AT A SPACING OF ONE—HALF THAT DESIGNATED FOR NAILS.

10. PROVIDE SHEATTHING ON SIDE OF WALL WHERE MARK/LABEL IS LOCATED.

11. WHEN PANELS ARE APPLIED ON BOTH FACES OF A WALL PANEL, JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING SHALL BE 3" NOMINAL OR THICKER AT ADJOINING PANEL EDGES AND NAILS ON EACH SIDE SHALL BE STAGGERED.

			CONC	RETE	FOOT	ING S	CHEDU	LE 1,2,3			
				CRO	DSSWISE	REINFORC	CING	LEN	GTHWISE	REINFOR	CING
MARK	WIDTH	LENGTH	THICK.	NO.	SIZE	LENGTH	SPACE	NO.	SIZE	LENGTH	SPACE
CONTIN	UOUS FOO	OTINGS									
FC1.5	1'-6''	CONT.	10''	N/A	N/A	N/A	N/A	2	#4	CONT.	12"
FC1.7	1'-8"	CONT.	10''	N/A	N/A	N/A	N/A	2	#4	CONT.	14''
FC2.0	2'-0"	CONT.	12"	N/A	N/A	N/A	N/A	3	#4	CONT.	9"
FC2.5	2'-6"	CONT.	12"		#4	2'-0"	18''	4	#4	CONT.	8"
FC3.0	3'-0"	CONT.	12"		#4	2'-6"	18"	5	#4	CONT.	7.5"
SQUARE	FOOTING	SS									
FS2.0	2'-0"	2'-0"	12"	3	#4	1'-6"	9"	3	#4	1'-6"	9"
FS2.5	2'-6"	2'-6"	12"	4	#4	2'-0"	8"	4	#4	2'-0"	8"
FS3.0	3'-0"	3'-0"	12"	5	#4	2'-6"	7.5"	5	#4	2'-6"	7.5"
FS3.5	3'-6"	3'-6"	12"	5	#4	3'-0"	9"	5	#4	3'-0"	9"
FS4.0	4'-0"	4'-0"	12"	6	#4	3'-6"	8.4"	6	#4	3'-6"	8.4"
FS4.5	4'-6"	4'-6"	12"	7	#4	4'-0"	8"	7	#4	4'-0"	8"
FS5.0	5'-0"	5'-0"	14"	8	#4	4'-6"	7.7"	8	#4	4'-6"	7.7"

MARK	SIMPSON CONNECTOR	ATTACHMENT 1	COMMENTS
A34	A34 ANCHOR	(8)-8d NAILS	
A35	A35 ANCHOR	(12)-8d NAILS	
CS14x40	CS14x40" LONG STRAP	FILL HOLES WITH 10d NAILS	SEE DETAIL 1/S6.2
CS14x48	CS14x48" LONG STRAP	FILL HOLES WITH 10d NAILS	SEE DETAIL 2/S6.2
CS16x40	CS16x40" LONG STRAP	FILL HOLES WITH 8d NAILS	SEE DETAIL 1/S6.2
CS16x48	CS16x48" LONG STRAP	FILL HOLES WITH 8d NAILS	SEE DETAIL 2/S6.2
DSC5R ²	DSC5R/L-SDS3 TWIST STRAP	(24)-SDS 1/4"x3"	SIM. TO DETAIL 9/S6.1
H1	H1 ANCHOR	(10)-8d NAILS	
HTS30C ²	HTS30C TWIST STRAP	(20)- 10d NAILS	SEE DETAIL 9/S6.1
LTP4	LTP4 ANCHOR	(12)-8d NAILS	
MST37	MST37 STRAP	(42)-16d NAILS	SEE DETAIL 10&11&12/S6.1
MST48	MST48 STRAP	(34) 16d NAILS	SEE DETAIL 6/S5.2
MSTA21	MSTA21 STRAP	(16)-10d NAILS	SEE DETAIL 6/S5.2
MSTC48B3	MSTC48B3 STRAP	(54) 10d NAILS	SEE SIMPSON CATALOG
MTS24C ²	MT24C TWIST STRAP	(14) 10d NAILS	SEE DETAIL 11/S5.1 & 9/S6.2
	MTS30C TWIST STRAP	(14) 10d NAILS	SEE DETAIL 9/S6.1

BRICK VENEER STEEL ANGLE LINTEL SCHEDULE OPENING SIZE ANGLE SIZE COMMENTS 0'-0" TO 6'-11" L3.1/2"x3.1/2"x1/4" 7'-0" TO 8'-11" L4"x3.1/2"x1/4" 9'-0" TO 9'-11" L5"x3.1/2"x1/4" CONNECT STEEL ANGLE TO LVL BEAM WITH 1/2" DIA. x 3" LAG SCREWS AT 24" O.C. 10'-0" TO 18'-0" L5"x3.1/2"x1/4" RICK VENEER STEEL ANGLE LINTEL NOTES: CONCRETE FOOTING NOTES: 1. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER UNLESS NOTED OTHERWISE.
2. ALSO PROVIDE SCHEDULED REINFORCING AT TOP OF FOOTING WHEN NOTED ON PLANS
3. FC — CONTINUOUS FOOTING; FS — SQUARE FOOTING

2. STRAP MAY REQUIRE BEING INSTALLED PRIOR TO INSTALLATION OF WALL SHEA ADJACENT FRAMING, AND/OR SETTING TRUSSES. COORDINATE AS NECESSARY.

1. ALL STEEL LINTELS SHALL HAVE A MINIMUM BEARING LENGTH OF 1" PER FOOT OF OPENING OR 4" MINIMUM TYPICAL. MAXIMUM BEARING LENGTH NEED NOT EXCEED 12".
2. LINTELS ARE DESIGNED TO SUPPORT UNIFORM LOADS CONSISTING ONLY OF WEIGHT OF WALL WITHIN A 60 DEGREE ISOCELES TRIANGLE AREA ABOVE OPENING.
3. ALL STEEL LINTELS ARE TO HAVE LONG LEG VERTICAL.
4. ALL ANGLE LINTELS SHALL BE CORROSIVE RESISTANT.

M BED

108×131

BED

96x110

BED

96×110

KITCH 121x12°

DINING

14'x|21

LIVING

133×178

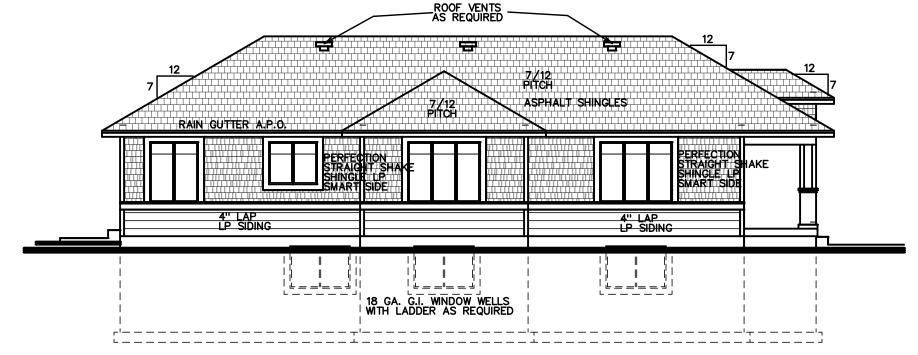
COV. PORCH

MAIN FLOOR AREA = 1276 SQ. FT.

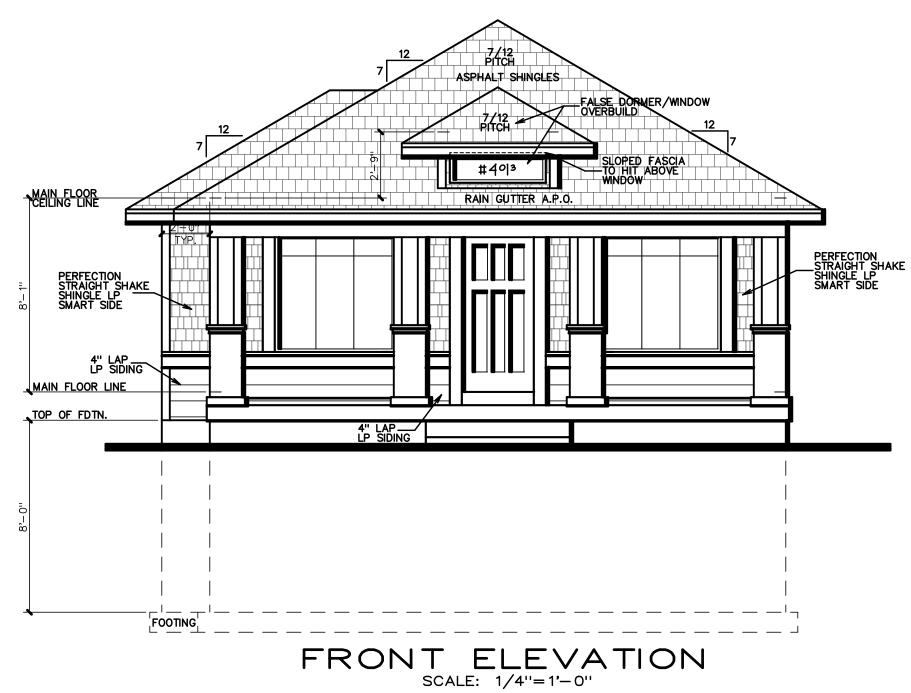
Ogden City - 2807 Quincy (WSU Updates 11-2-19)

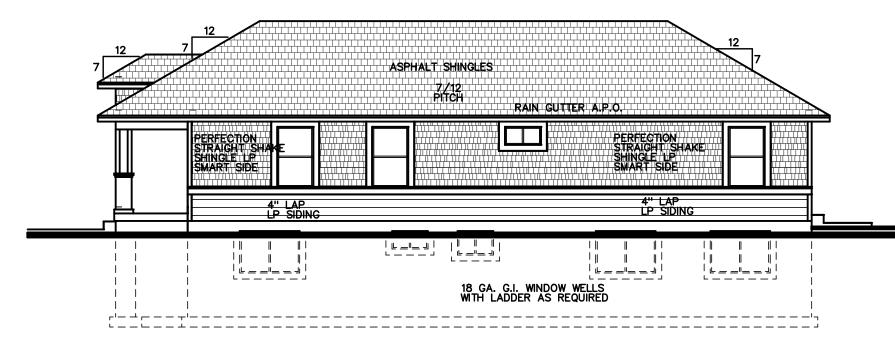
REAR ELEVATION

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



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





RIGHT ELEVATION

SCALE 1/8"=1'-0"

DESIGN LOADS

NOTICE AND WARNING

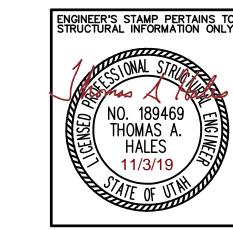
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STATE: UTAH

NOTES TO PLAN:

- SEE GENERAL STRUCTURAL NOTES, SCHEDULES, AND DETAILS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS. THIS PLAN IS TO BE WORKED ALONG WITH THESE OTHER SUPPORTING SHEETS. THE OWNER AND CONTRACTOR SHALL THOROUGHLY REVIEW AND BECOME FAMILIAR WITH THESE DRAWINGS BEFORE PROCEEDING WITH
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- HOLDOWNS: SEE THE METAL HOLDOWN SCHEDULE ON SHEET S1.1 AND DETAILS 5 & 9/S4.2 FOR ADDITIONAL INFORMATION. PROVIDE HOLDOWNS AS NOTED ON THE DRAWINGS. USE RIM JOIST VERSION OF STRAP WHEN LOCATED AT RIM JOIST. FOR MISSED OR MISPLACED HOLDOWNS USE AN ALTERNATE HOLDOWN STRAP AS NOTED IN THE COMMENTS COLUMN OF THE METAL HOLDOWN
- 6. RETAINING WALLS: SEE DETAILS 1/S4.1 AND 2/S4.1 FOR RETAINING WALL CONSTRUCTION INFORMATION FOR WALLS RETAINING LANDSCAPE AREAS ONLY. CONTACT THE DESIGNER FOR RETAINING WALLS EXCEEDING THE HEIGHT SHOWN IN THE DETAILS OR AREAS WHERE VEHICLE LOADING WILL BE WITHIN FOUR FEET OF TOP OF WALL.
- DECK FOOTINGS: PLASTIC CONCRETE SPOT FOOTING FORMS WITH EQUIVALENT OR GREATER FOOTING FOOTPRINT AND REINFORCING MAY BE USED IN PLACE OF TRADITIONALLY FORMED FOOTINGS.
- 8. <u>CONCRETE PORCH SLABS:</u> PROVIDE REINFORCING FOR SELF SUSPENDED CONCRETE PORCH SLABS AS SHOWN IN DETAIL 4/S5.2.
- 9. CONCRETE SLABS OVER BACKFILL: PROVIDE REBAR DOWELS FROM CONCRETE SLABS TO ADJACENT CONCRETE FOUNDATION WALLS OVER BACKFILL AREAS AS SHOWN IN DETAIL 3/S5.2.
- 10. CONCRETE SLAB CONTROL JOINTS: SLABS ON GRADE SHALL HAVE CONTROL OR CONSTRUCTION JOINTS PROVIDED AT A SPACING NOT TO EXCEED 30 TIMES THE SLAB THICKNESS IN ANY DIRECTION. INSTALL JOINTS SO THE LENGTH TO WIDTH RATIO BETWEEN THE JOINTS IS NOT MORE THAN 1.25 TO 1. INSTALL CONTROL JOINTS WITHIN 24 HOURS OF CONCRETE PLACEMENT BY SAW CUTTING TO A DEPTH OF 1/4 THE THICKNESS OF THE SLAB. ALL DISCONTINUOUS CONTROL OR CONSTRUCTION JOINTS SHALL BE REINFORCED WITH (2)—#4 x 48" REBAR. SEE DETAILS.
- 11. WALLS: 2x4 WALLS ARE SHOWN WITH A 3.1/2" THICKNESS AND 2x6 WALLS ARE SHOWN WITH A 5.1/2" THICKNESS. ALL BEARING, SHEAR, AND BRACED WALLS SHALL HAVE STUDS PLACED AT 16" O.C. MAXIMUM, UNLESS NOTED OTHERWISE.
- 12. SHEAR WALLS: SEE THE SHEAR WALL SCHEDULE FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS SHALL BE A SW2 TYPE SHEAR WALL, UNLESS NOTED OTHERWISE, TO HELP RESIST SEISMIC/WIND FORCES. ALL SHEAR WALLS SHALL BE ATTACHED AT THE TOP AND BOTTOM BY ONE OF THE METHODS SHOWN IN THE DETAILS ON SHEETS S4.1 THRU S6.3, U.N.O. WALLS NOTED AS 'BRACED WALLS" SHALL BE A SW1 SHEAR WALL TYPE.
- 13. BEARING AND EXTERIOR WALLS: ALL BEARING AND EXTERIOR WALLS SHALL CONSIST OF FULL HEIGHT STUD FRAMING AND BE ATTACHED AT THE TOP AND BOTTOM BY ONE OF THE METHODS SHOWN IN THE DETAILS ON SHEETS S4.1 THRU S6.3, U.N.O. ALL BEARING WALL OPENINGS SHALL HAVE A HEADER PROVIDED AS NOTED ON THE PLANS.
- 14. WOOD BEAMS AND HEADERS: UNLESS SPECIFICALLY CALLED OUT ON THE DRAWING, SEE THE WOOD BEAM/HEADER SCHEDULE FOR SIZES AND ADDITIONAL INFORMATION. CONTACT THE DESIGNER FOR WOOD BEAMS OR HEADERS NOT DESIGNATED ON PLANS THAT HAVE A SPAN GREATER THAN 5'-2". SEE THE WOOD BEAM/HEADER SCHEDULE FOR SPANS UP TO 5'-2" THAT ARE NOT NOTED OTHERWISE ON THE PLANS.
- 15. FLOOR FRAMING: ALL FLOOR JOISTS SHALL BE SUPPORTED AT BEARING POINTS BY ONE OF THE METHODS SHOWN IN THE DETAILS ON SHEETS 55.1 THRU S5.2, U.N.O. FLOOR JOISTS THAT RUN PARALLEL TO EXTERIOR, BEARING, AND/OR SHEAR WALLS SHALL HAVE SOLID BLOCKING PROVIDED BY ONE OF THE METHODS SHOWN IN DETAILS 2, 3, 5, 6, 8, OR 9/S5.1. WHERE POSSIBLE, ALL FLOOR FRAMING SHALL BE CONTINUOUS OVER INTERMEDIATE BEARING SUPPORTS.
- 16. FLOOR FRAMING PERFORMANCE: THE FLOOR FRAMING SYSTEM DESIGNATED IN THESE DRAWINGS EXCEED THE MINIMUM CODE REQUIREMENTS AND REPRESENT A STANDARD FLOOR PERFORMANCE. HOWEVER, DUE TO VARIATIONS IN AN INDIVIDUAL'S PERCEPTION OF AN ACCEPTABLE FLOOR PERFORMANCE, THE OWNER/CONTRACTOR SHALL VERIFY THAT THE DESIGNATED FLOOR FRAMING SYSTEM IS ACCEPTABLE TO THE OWNER'S EXPECTATIONS BEFORE BEGINNING FLOOR CONSTRUCTION.
- NOOD POSTS: ALL WOOD POSTS SHALL HAVE APPROPRIATE METAL POST CAPS AND BASE CONNECTORS INSTALLED GOOD FOR AT LEAST 900 POUNDS UPLIFT. WOOD POSTS INSTALLED ON CONCRETE SHALL HAVE AT LEAST A 1" STANDOFF BASE. WHERE POSTS ARE INSTALLED ON CONC. PIERS OR FOOTINGS SEE DETAILS 9/S4.1, 10/S4.1, AND 8/S4.2 FOR ADDITIONAL INFORMATION.
- 18. METAL CONNECTORS: PROVIDE METAL CONNECTORS AS NOTED ON THE DRAWINGS. SEE THE METAL CONNECTOR SCHEDULE ON SHEET S1.1 FOR ADDITIONAL INFORMATION.
- 19. DECK FLOORS: ALL DECK FLOORS SHALL BE HORIZONTALLY TIED TO INTERIOR FLOORS TO RESIST SEISMIC FORCES. SEE DETAIL 11/S5.1
- 20. TIE UPPER FLOOR WALLS TO LOWER FLOOR WALLS WITH SIMPSON MST48 STRAP WHERE NOTED ON PLANS. SEE METAL CONNECTOR SCHEDULE AND DETAIL 6/S5.2.
- 21. TRUSS FABRICATION: IF TRUSSES ARE UNABLE TO BE DESIGNED TO WORK WITH THE LAYOUT AS SHOWN IN THE DRAWINGS (INCLUDING ATTIC BONUS ROOMS, VAULTED CEILINGS, RAISED CEILINGS, ETC.), NOTIFY THE DESIGNER AND CONTRACTOR FOR RESOLUTION BEFORE PROCEEDING WITH FABRICATION OF
- 23. TRUSS DRAG STRUTS: TRUSSES NOTED AS DRAG STRUTS SHALL BE DESIGNED FOR A 200 PLF MIN. IN-PLANE HORIZ. SEISMIC LOAD APPLIED AT THE TRUSS TOP CHORD UNLESS NOTED OTHERWISE.



___STATE: UTAH

BASEMENT/FOUNDATION PLAN SCALE: 1/4"=1'-0"

DESIGN LOADS GROUND SNOW LOAD - 43 psf ULTIMATE DESIGN WIND SPEED, VULT - 115 mph NOMINAL DESIGN WIND SPEED, VASD - 90 mph SEISMIC DESIGN CATEGORY 'D'

SITE CLASS 'D' CONTRACTOR/OWNER SHALL VERIFY ACCURACY OF SNOW LOADS WITH BUILDING OFFICIAL. (NO GYP-CRETE OR LIGHTWEIGHT CONC. HAS BEEN INCLUDED IN THE FLOOR DESIGN).

NOTICE AND WARNING THESE DRAWINGS & DESIGNS ARE THE PROPERTY OF LOMOND VIEW DESIGNS, LLC AND SHALL NOT BE REPRODUCED OR COPIED WITHOUT WRITTEN CONSENT. THESE DRAWINGS & DESIGNS MAY BE USED FOR THE CONSTRUCTION OF A SINGLE BUILDING LOCATED AS FOLLOWS: LOT #: _____

SUBDIVISION: ADDRESS: 2807 QUINCY AVE. CITY: OGDEN ANY OTHER USE OF THESE DRAWINGS & DESIGNS IS STRICTLY FORBIDDEN AND VIOLATORS WILL BE PROSECUTED.

DATE: 11/3/2019

CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS, AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION.

Ogden City - 2807 Quincy (WSU Updates 11-2-19)

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04 WEST PLEASANT VIEW DF OGDEN, UTAH 84414 PHONE: (801)-782-0484 FAX: (801)-782-8631 WWW.LOMONDVIEW.COM

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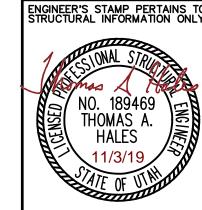
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- HOLDOWNS: SEE THE METAL HOLDOWN SCHEDULE ON SHEET S1.1 AND DETAILS 5 & 9/S4.2 FOR ADDITIONAL INFORMATION. PROVIDE HOLDOWNS AS NOTED ON THE DRAWINGS. USE RIM JOIST VERSION OF STRAP WHEN LOCATED AT RIM JOIST. FOR MISSED OR MISPLACED HOLDOWNS USE AN ALTERNATE HOLDOWN STRAP AS NOTED IN THE COMMENTS COLUMN OF THE METAL HOLDOWN
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- 22.TRUSS, RAFTER, AND ROOF FRAMING: ALL TRUSSES AND RAFTERS SHALL BE SUPPORTED AT BEARING POINTS BY ONE OF THE METHODS SHOWN IN THE DETAILS ON SHEETS S6.1 THRU S6.3, U.N.O. AT ROOF OVERBUILD AREA, PROVIDE OVERBUILD TRUSSES OR STICK FRAME AS SHOWN IN DETAIL 6/S6.2

23. TRUSS DRAG STRUTS: TRUSSES NOTED AS DRAG STRUTS SHALL BE DESIGNED FOR A 200 PLF MIN. IN-PLANE HORIZ. SEISMIC LOAD APPLIED AT THE TRUSS TOP CHORD UNLESS NOTED OTHERWISE.

MAIN FLOOR PLAN SCALE: 1/4"=1'-0"

MAIN FLOOR AREA = 1276 SQ. FT. COV. PORCH AREA = 144 SQ. FT.



WARNING

DESIGN LOADS ROOF: SNOW - 30 psf DEAD - 17 psf FLOOR: LIVE - 40 psf DEAD - 12 psf GROUND SNOW LOAD - 43 psf ULTIMATE DESIGN WIND SPEED, Vult - 115 mph	NOTICE AND THESE DRAWINGS & DESIGNS ARE THE PEDESIGNS, LLC AND SHALL NOT BE REPROWRITTEN CONSENT. THESE DRAWINGS & DESIGNS MAY BE US OF A SINGLE BUILDING LOCATED AS FOLL LOT #:
NOMINAL DESIGN WIND SPEED, VASD — 90 mph SEISMIC DESIGN CATEGORY 'D' SITE CLASS 'D' SOIL BEARING PRESSURE — 1500 psf CONTRACTOR/OWNER SHALL VERIFY ACCURACY OF SNOW LOADS WITH BUILDING OFFICIAL. (NO GYP—CRETE OR LIGHTWEIGHT CONC. HAS BEEN INCLUDED IN THE FLOOR DESIGN).	SUBDIVISION:

PROPERTY OF LOMOND VIEW ODUCED OR COPIED WITHOUT SED FOR THE CONSTRUCTION ____state: UTAH ANY OTHER USE OF THESE DRAWINGS & DESIGNS IS STRICTLY FORBIDDEN AND VIOLATORS WILL BE PROSECUTED.

DATE: 11/2/2019

CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS, AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION.

FOOTING WIDTH PER CONCRETE FOOTING SCHEDULE

NO SCALE

TYPICAL WALL SECTION

FOOTING WIDTH PER CONCRETE FOOTING SCHEDULE

\$2.3





HOME DECATHLON SOLAR

2807 0GD CITY OGDEN

O4 WEST PLEASANT VIEW DR. OGDEN, UTAH 84414
PHONE: (801)—782—0484
FAX: (801)—782—8631
WWW.LOMONDVIEW.COM 30



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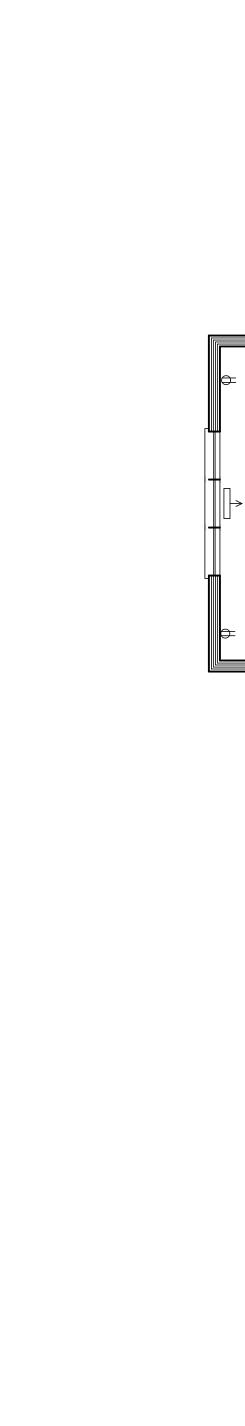
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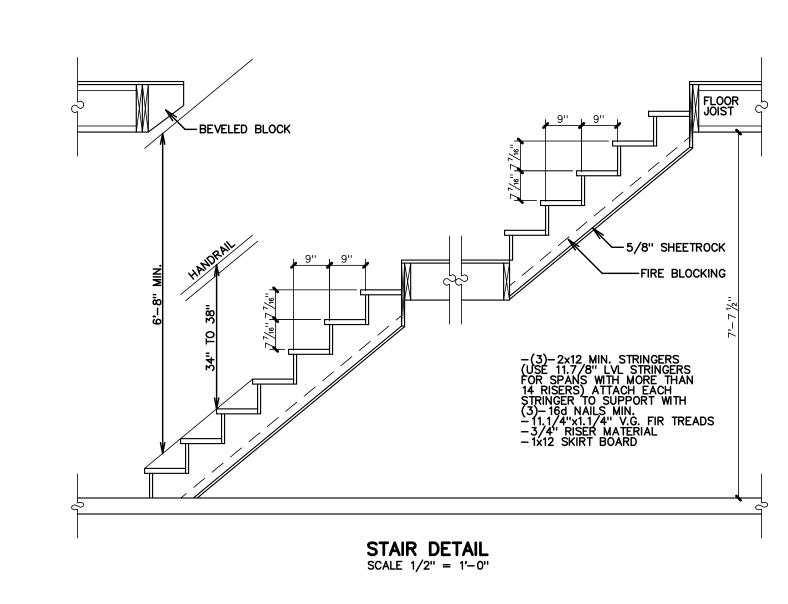
해돈. ROOF LAYOUT, ELECTRICAL PLAN, AND

3 S

ROOF LAYOUT







GENERAL NOTES

I. ROOF NOTES

- 2. PROVIDE INSULATION DEPTH MARKERS EVERY 300 SQ. FT. OF ATTIC SPACE 3. PROVIDE ATTIC VENTILATION AND ATTIC ACCESS AS PER LOCAL CODE
- 4. ATTIC VENTILATION: TOTAL SQ. FT./300x144 = TOTAL SQ. IN. -PROVIDE 50% ATTIC VENTS AND 50% SOFFIT VENTS -BAFFLE TRUSS CAVITIES AT EXTERIOR WALLS

II. ELECTRICAL NOTES

- 1. THE ELECTRICAL PLAN SHOWN ONLY REPRESENTS A BASIC ELECTRICAL LAYOUT. ALL ELECTRICAL SHALL BE COORDINATED WITH THE OWNER AND SHALL MEET THE APPLICABLE ELECTRICAL CODES.

- 4. ARC-FAULT CIRCUIT INTERRUPTERS SHALL BE INSTALLED IN ALL BEDROOMS AS PER LOCAL ELECTRICAL CODES.
- 5. GROUND—FAULT CIRCUIT INTERRUPTERS SHALL BE INSTALLED IN ALL OUTDOOR OUTLETS AND OUTLET CIRCUITS IN KITCHENS, BATHROOMS, GARAGES, AND WHERE OUTLETS ARE CLOSE TO A WATER SOURCE AS PER LOCAL ELECTRICAL CODES.

III. MISCELLANEOUS NOTES

ADDITIONS: CONTRACTOR SHALL COORDINATE AND ADJUST FOUNDATION AND OTHER WALL HEIGHTS AS NEEDED TO ALLOW FLOOR LEVELS TO BE FLUSH BETWEEN NEW AND EXISTING FLOORS. ALSO, TIE HVAC SYSTEM INTO EXISTING HVAC SYSTEM, OR PROVIDE NEW AS PER LOCAL CODES.

- 2. POISON SOIL FOR TERMITE CONTROL AS PER LOCAL CODE REQUIREMENTS
- I. WINDOW FRAMING: ALL OPENABLE WINDOWS THAT HAVE A WINDOW SILL LOCATED MORE THAN 72" ABOVE THE EXTERIOR FINISHED GRADE OR SURFACE BELOW SHALL BE PLACED SO THAT THE WINDOW SILL IS AT LEAST 24" ABOVE THE INTERIOR FINISHED FLOOR OR SHALL HAVE A WINDOW GUARD PROVIDED AS PER CODE. ALL WINDOWS USED FOR EGRESS SHALL HAVE A MAXIMUM SILL HEIGHT OF 44" ABOVE FINISHED FLOOR.
- 5. PROVIDE R-13 INSULATION MINIMUM IN 2x4 EXTERIOR WALLS, AND R-19 INSULATION MINIMUM IN 2x6 EXTERIOR WALLS. PROVIDE R-38 INSULATION MINIMUM AT ALL INTERIOR TRUSS ATTIC SPACES AND RAFTER FRAMING.

CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS, AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION.

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CONC. FOOTING -- SEE PLANS, SCHEDULES, AND GENERAL NOTES

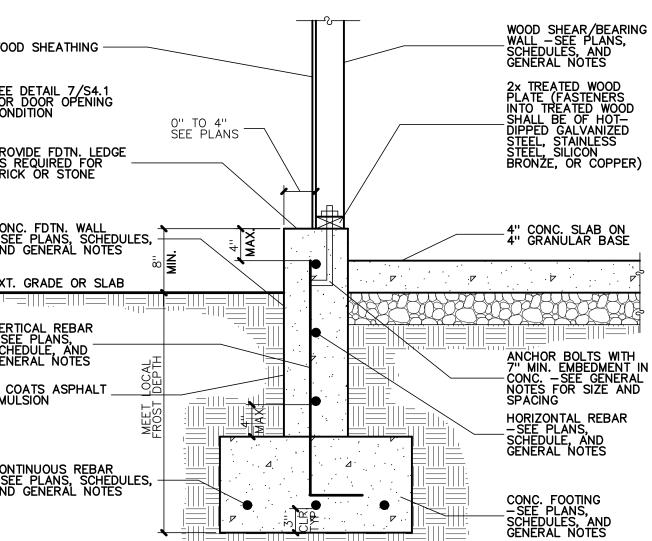
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STEPPED FOOTING DETAIL NO SCALE

FOUNDATION WALL ON FOOTING

NO SCALE

WOOD SHEATHING WOOD SHEAR/BEARING WALL-SEE PLANS, SCHEDULES, — AND GENERAL NOTES 2x TREATED WOOD PLATE (FASTENERS INTO TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED -STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER) 0" TO 4" SEE PLANS PROVIDE FDTN. LEDGE AS REQUIRED FOR BRICK OR STONE CONC. FDTN. WALL -SEE PLANS, SCHEDULES, -AND GENERAL NOTES EXT. GRADE OR SLAB ANCHOR BOLTS WITH 7 MIN. EMBEDMENT IN CONC. — SEE GENERAL NOTES FOR SIZE AND SPACING _4" CONC. SLAB ON 4" GRANULAR BASE VERTICAL REBAR -SEE PLANS, SCHEDULE, AND GENERAL NOTES HORIZONTAL REBAR — SEE PLANS, SCHEDULE, AND GENERAL NOTES 2 COATS ASPHALT EMULSION _ 1" STYROFOAM INSULATION BOARD CONTINUOUS REBAR
-SEE PLANS, SCHEDULES,
AND GENERAL NOTES



FOUNDATION WALL ON FOOTING **S**4.1

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ENGINEER'S STAMP PERTAINS TO STRUCTURAL INFORMATION ONLY

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OGDEN

O4 WEST PLEASANT VIEW DR. OGDEN, UTAH 84414
PHONE: (801)—782—0484
FAX: (801)—782—8631
WWW.LOMONDVIEW.COM

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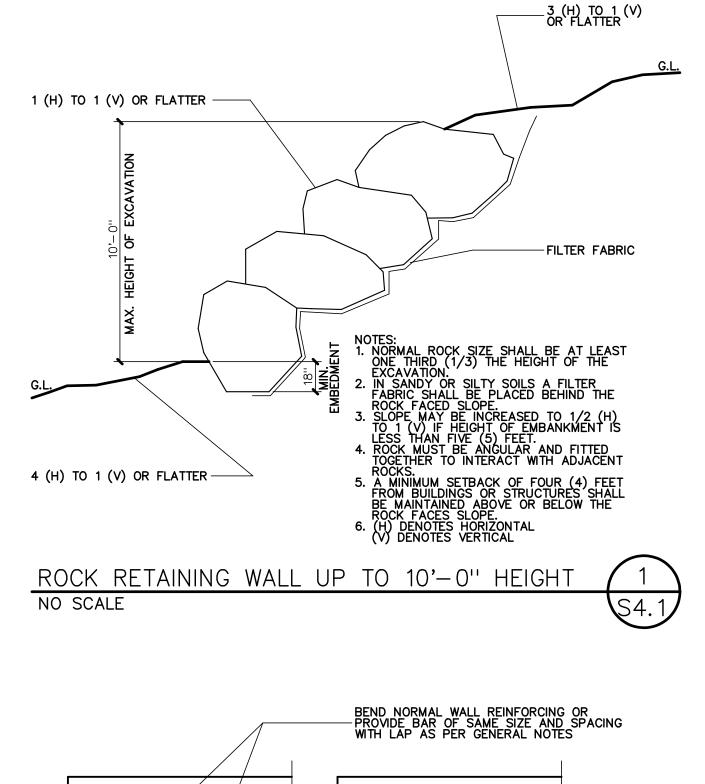
DETAILS

FOUNDATION

AND

OOTING

2807 0GD



CORNER BARS -

FOOTING THICKNESS PER CONCRETE FOOTING SCHEDULE

PER CONCRETE FOOTING SCHEDULE

THICKENED SLAB FTG. ALTERNATE

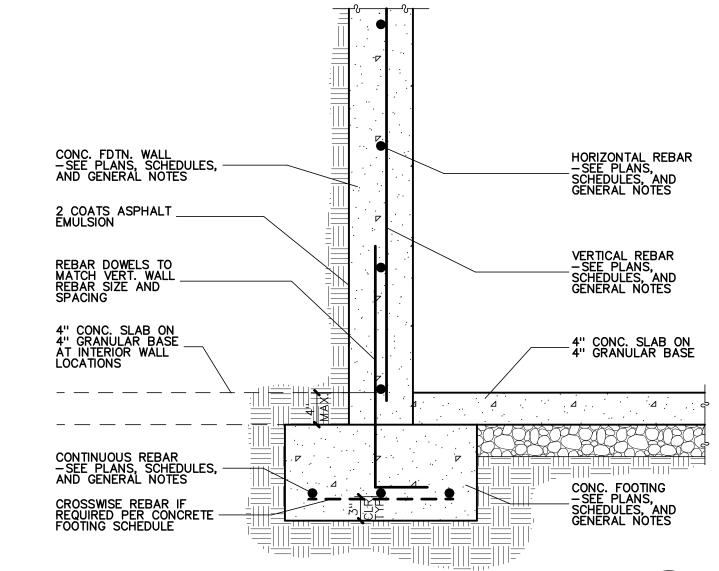
4" CONC. SLAB ON 4" GRANULAR BASE

CONC. FOOTING
- SEE PLANS,
SCHEDULES, AND
GENERAL NOTES

8

-CORNER BARS

CONC. FOUNDATION WALL/FOOTING CORNERS AND INTERSECTION



CONCRETE RETAINING WALL SCHEDULE 1.

CONC. RETAINING WALL NOTES:

1. LOCATE A HORIZONTAL BAR WITHIN 4" OF TOP AND BOTTOM OF WALL.

2. WALL HEIGHT MAY BE INCREASED AS NEEDED WHERE FOOTINGS NEED TO BE DROPPED FOR FROST PROTECTION OR SOIL CONDITIONS AS LONG AS THE UNBALANCED FILL HEIGHT ("H"—HEIGHT BETWEEN LOW AND HIGH GRADE) DOES NOT EXCEED THAT SHOWN. ADD ADDITIONAL HORIZONTAL REBAR AS NEEDED TO NOT EXCEED THAT SHOWN

3. "V" BARS SHALL NOT BE SPLICED BELOW MID—HEIGHT OF WALL.

4. THIS SCHEDULE IS FOR RETAINING LANDSCAPE AREAS ONLY. DO NOT USE WHERE VEHICLE LOADING WILL BE WITHIN FOUR FEET OF TOP OF WALL.

TO 6'-6" |1'-0" |3'-0" | #5 | 12" | N/A | N/A |

TO 9'-6" |1'-6" |4'-6" | #6 | 10" | #4 | 24" |

CONCRETE RETAINING WALL

FOUNDATION WALL ON FOOTING

NO SCALE

NO SCALE

NO SCALE

S4.1

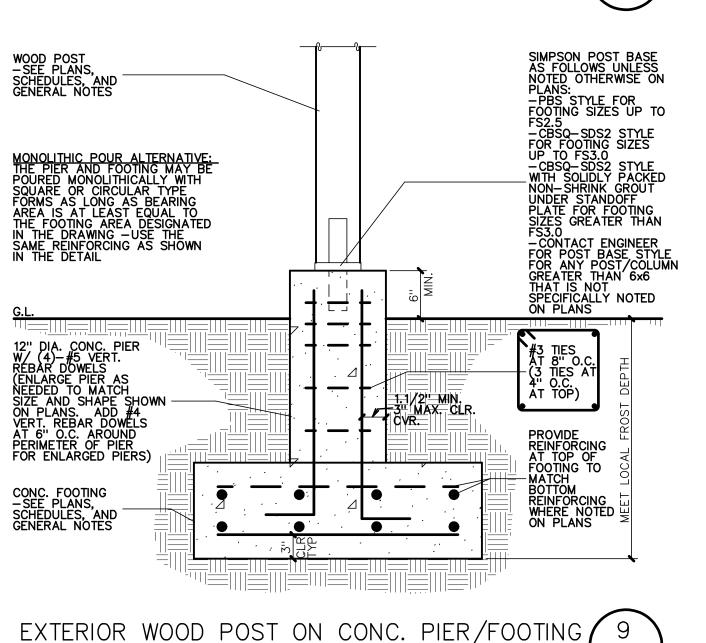
'V' BARS³ | 'D' BARS |

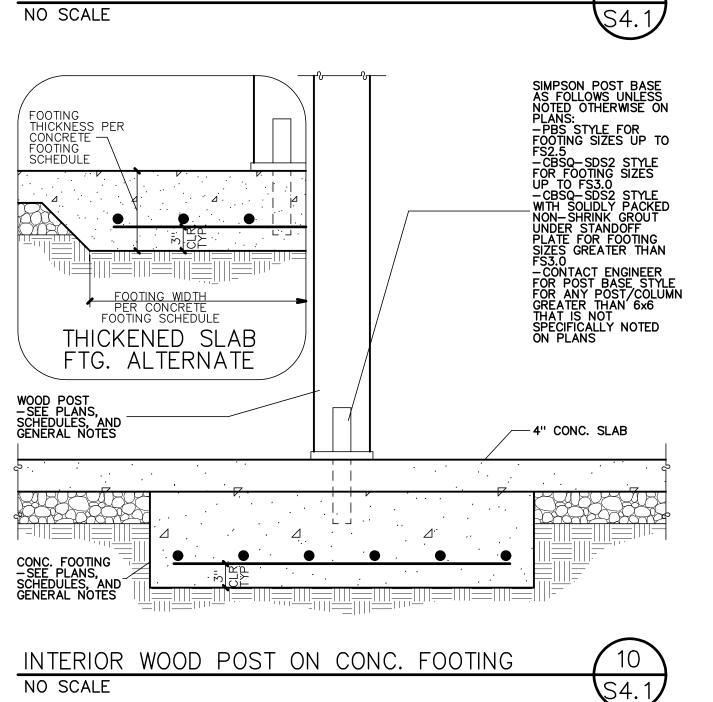
| 12" | N/A | N/A |

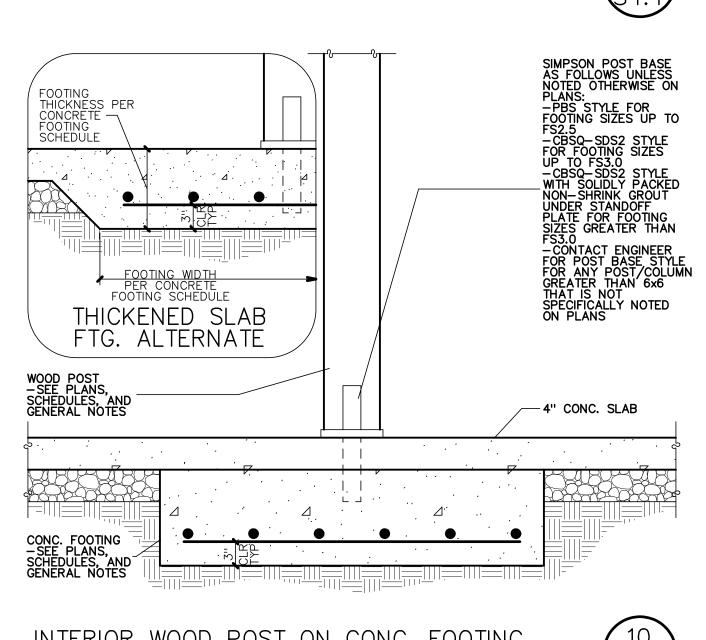
'T' BARS | 'TL' BARS | 'BL' BARS

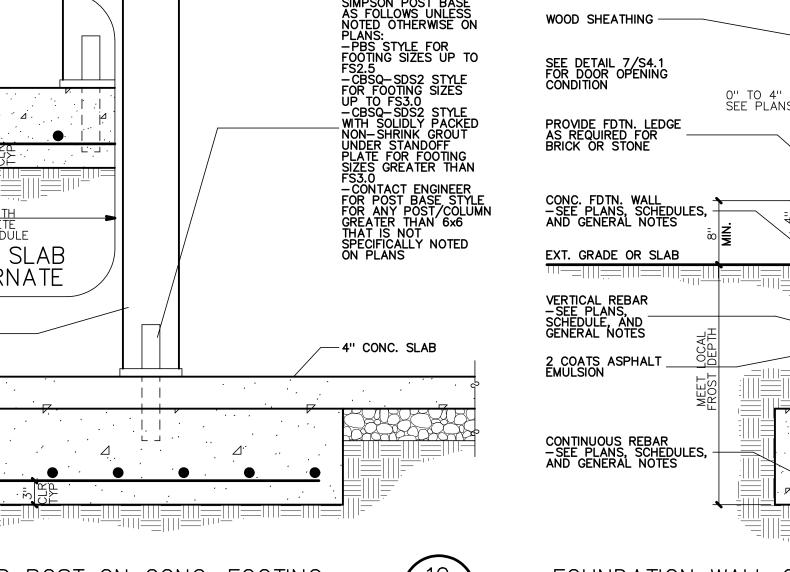
4 | #4 | 2

SIZE SPACE SIZE SPACE SIZE SPACE SIZE NO. SIZE NO.









FINISHED GRADE
(LANDSCAPE AREAS ONLY
-NO VEHICLE LOADING
WITHIN 4'-0" OF WALL)

12" FREE DRAINING GRANULAR FILL

_#4 HORIZ. BAR CONT AT 12" O.C.

'V' BARS (FULL HEIGHT OR AS PER NOTE 3)

'T' BARS

-STANDARD HOOK

2

S4.1₂

2x TREATED WOOD
PLATE (FASTENERS
INTO TREATED WOOD
SHALL BE OF HOTDIPPED GALVANIZED
STEEL, STAINLESS
STEEL, SILICON
BRONZE, OR COPPER)

ANCHOR BOLTS WITH
7" MIN. EMBEDMENT IN
-CONC. —SEE GENERAL
NOTES FOR SIZE AND
SPACING

HORIZONTAL REBAR - SEE PLANS, SCHEDULE, AND GENERAL NOTES

VERTICAL REBAR -SEE PLANS, SCHEDULE, AND GENERAL NOTES

_4" CONC. SLAB ON 4" GRANULAR BASE

CONC. FOOTING -SEE PLANS, SCHEDULES, AND GENERAL NOTES

6

CONC. WALL

'D' BARS -

CONC. FTG.

VERT. DOWEL CONT. TO TOE OF FOOTING TYP.

WOOD SHEATHING

PROVIDE FDTN. LEDGE AS REQUIRED FOR BRICK OR STONE

EXT. GRADE OR SLAB

2 COATS ASPHALT EMULSION

DOWELS TO MATCH VERT. WALL REBAR SIZE AND SPACING

CONC. FDTN. WALL
-SEE PLANS, SCHEDULES,
AND GENERAL NOTES

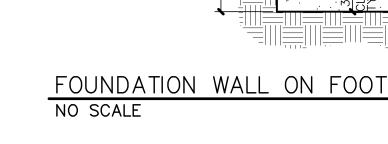
CONTINUOUS REBAR
-SEE PLANS, SCHEDULES, AND GENERAL NOTES

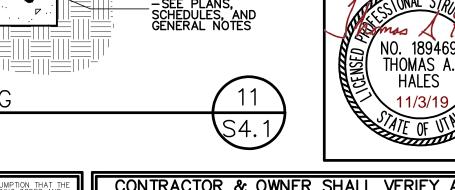
0" TO 4" SEE PLANS

4'-0" FOUNDATION WALL ON FOOTING

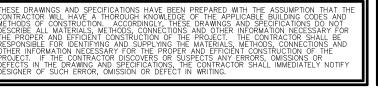
FINISHED GRAD

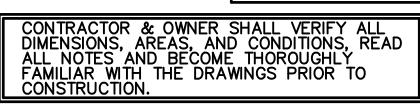
2" DIA. WEEP HOLES 8'-0"
O.C. OR PROVIDE DRAIN
PIPE IN FREE DRAINING
GRANULAR FILL TO
PROVIDE FULL DRAINAGE





|--|







NO SCALE

NO SCALE

WOOD SHEATHING WHEN USED AS SHEAR WALL

WOOD BEARING AND/OR SHEAR WALL -SEE PLANS, SCHEDULES, AND GENERAL NOTES

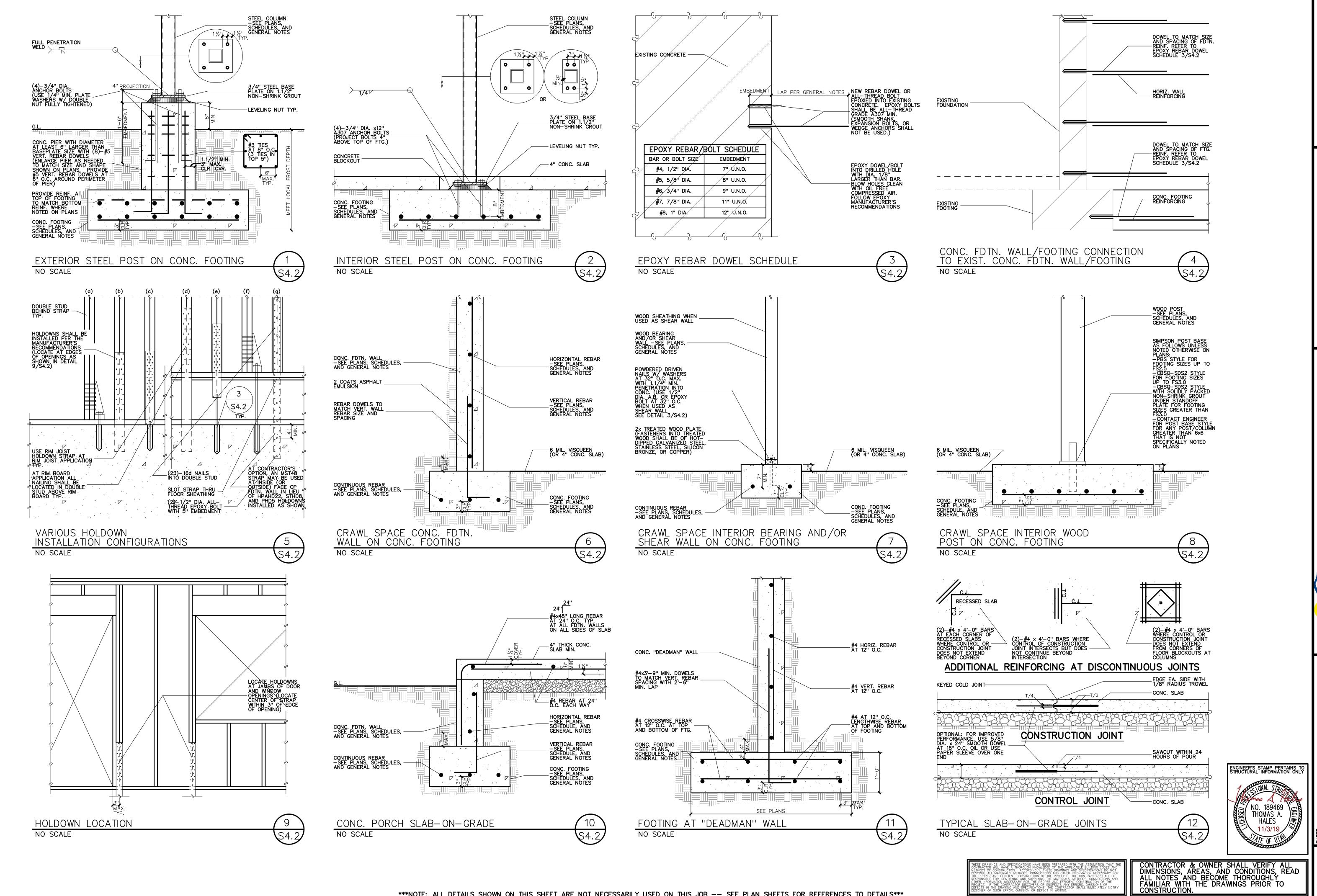
POWDERED DRIVEN NAILS W/WASHERS AT 32" O.C. MAX. WITH 1.1/4" MIN. PENETRATION INTO CONC. (USE ANCHOR OR EPOXY—BOLT WHEN USED AS SHEAR WALL—SEE SHEAR WALL SCHEDULE AND/OR DETAIL 3/S4.2)

2x TREATED WOOD PLATE (FASTENERS INTO TREATED WOOD SHALL BE OF HOT-DIPPED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER)

CONTINUOUS REBAR
-SEE PLANS, SCHEDULES, AND GENERAL NOTES

INTERIOR BEARING AND/OR

SHEAR WALL ON CONC. FOOTING



U.S. DEPARTMENT OF ENERGY SOLAR

HOME

FOUNDATION AND

OOTING

2

Ogden City - 2807 Quincy (WSU Updates 11-2-19)

U.S. DEPARTMENT OF ENERGY SOLAR DECATHION

HOME DECATHLON QUINCY EN CITY, SOLAR 2807 0GDI

04 WEST PLEASANT VIEW DR. OGDEN, UTAH 84414
PHONE: (801)-782-0484
FAX: (801)-782-8631
WWW.LOMONDVIEW.COM

View puomo

DE AMING FR

FLOOR

5

NO SCALE

S5.1

NO SCALE

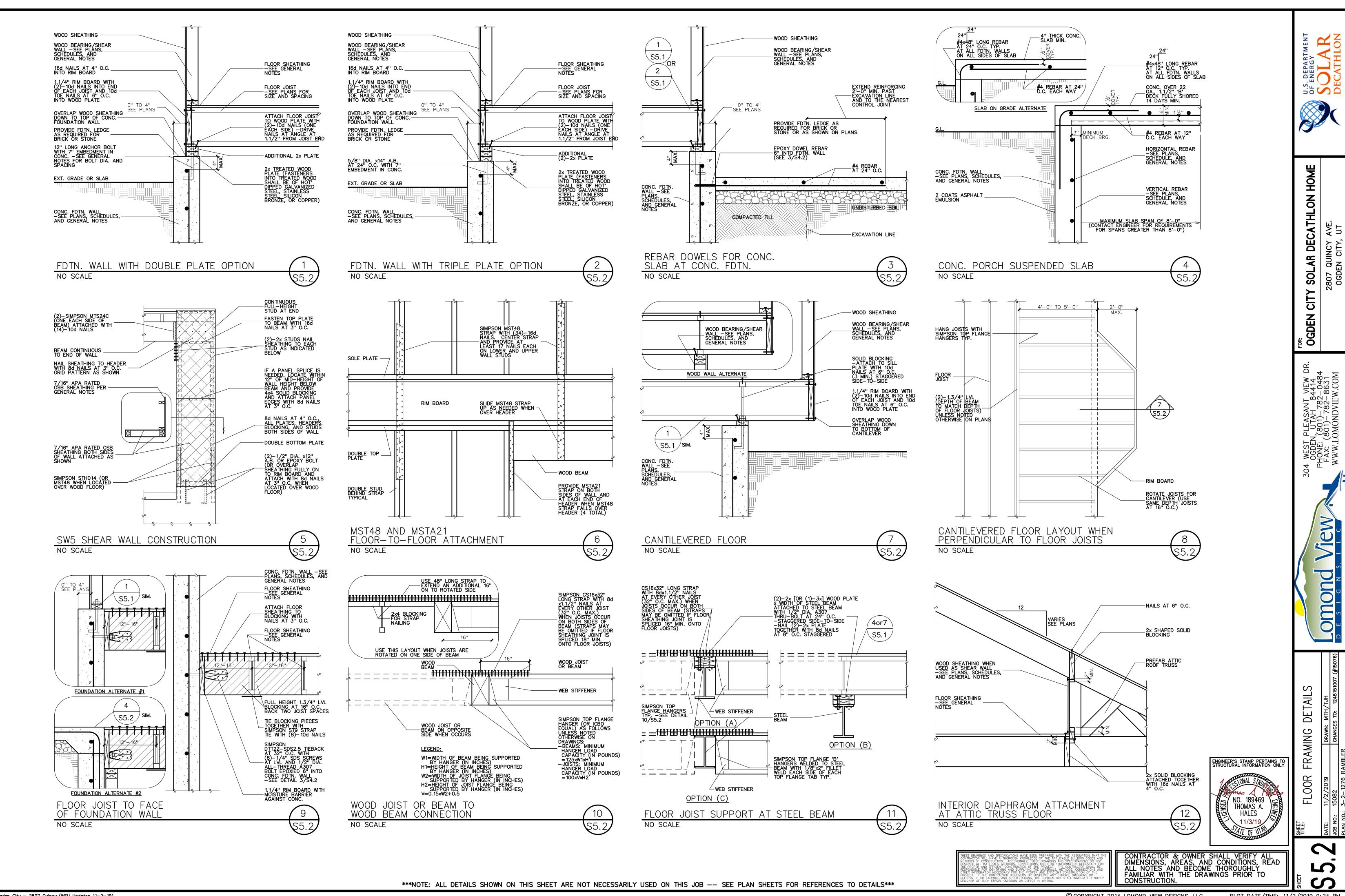
****S5.1

CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS, AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION.

NO SCALE

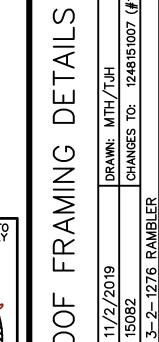
S5.1

NO SCALE





2807 QUINCY OGDEN CITY,



ENGINEER'S STAMP PERTAINS TO STRUCTURAL INFORMATION ONLY 00F

NO. 189469 THOMAS A. HALES

9

NO SCALE

WOOD BEAM POCKET IN WALL

WALL -

WOOD BEAM OR -INTERRUPTED WALL DOUBLE TOP PLATE

MST37 STRAP
CENTERED ON JOINT
TO SPLICE WALL
DOUBLE TOP PLATES
TOGETHER OR BEAM
TO WALL DOUBLE TOP

****S6.1

OPTION (A)

SOLID 2x SUPPORT BENEATH BEAM

11

S6.1

SIMPSON AC WOOD POST CAP (WHERE BEAM IS CONTINUOUS, SIMPSON BC CAP MAY BE USED) U.N.O.

WOOD BEAM TO POST AND MST37 STRAP INSTALLATION

WOOD POST

NO SCALE

JIMPSON ACE OR EQUAL TYP. AT HEADERS WITH — SPANS GREATER THAN 6'-0"

MST37 STRAP INSTALLATION AND HEADER DETAIL

WALL -

NO SCALE

- WALL STUDS

4x 'WDTH OF WALL'
BLOCKING FOR STRAP
NAILING - ATTACH
WALL SHEATHING TO
BLOCKING WITH NAILS
AT 3" O.C.

HTS30C/MTS30C STRAP INSTALLATION

Š 111111111

ALTERNATE STRAP CONFIGURATION

CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS, AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION.

12

\$6.1

- WOOD BEAM

USE END POST CAP MODEL WHEN BEAM IS NOT CONTINUOUS OVER POST

NO SCALE

J. EXTERIOR WALLS SHALL HAVE SHEATHING PROVIDED AND NAILED AS PER THE SHEAR WALL SCHEDULE AND GENERAL NOTES TO FUNCTION AS SHEAR OR BRACED WALLS.

K. ALL BEARING, SHEAR, AND BRACED WALLS SHALL HAVE STUDS PLACED AT 16" O.C. MAXIMUM, UNLESS NOTED OTHERWISE.

L. ATTACH ALL ROOF TRUSSES AND RAFTERS TO ALL BEARING WALLS AND BEAMS WITH SIMPSON H1 ANCHORS, UNLESS NOTED OTHERWISE. PROVIDE SOLID BLOCKING BETWEEN TRUSSES.

M. UNLESS NOTED OTHERWISE ON DRAWINGS, NAILING OF ALL STRUCTURAL MEMBERS SHALL COMPLY WITH TABLES R602.3(1) TO R602.3(5). III. PRE-FABRICATED WOOD TRUSSES

A. THE TRUSS MANUFACTURER IS RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THE TRUSSES. THE TRUSSES SHALL BE DESIGNED TO MEET THE MINIMUM LOAD AND CODE REQUIREMENTS FOR THE GIVEN LOCALITY OF CONSTRUCTION AND SHALL BE APPROVED BY A LICENSED ENGINEER.

3. IF TRUSSES ARE UNABLE TO BE DESIGNED TO WORK WITH THE LAYOUT AS SHOWN IN THE DRAWINGS (INCLUDING ATTIC BONUS ROOMS, VAULTED CEILINGS, RAISED CEILINGS, ETC.), NOTIFY THE DESIGNER AND CONTRACTOR FOR RESOLUTION BEFORE PROCEEDING WITH FABRICATION OF TRUSSES.

C. THE DESIGN AND BEARING OF TRUSSES SHALL BE COORDINATED WITH THE DRAWINGS. SEE WALL LEGEND ON SHEET S1.1 AND OTHER NOTES ON DRAWINGS FOR LOCATIONS OF BEARING WALLS. DO NOT DESIGN TRUSSES TO BEAR ON NON-BEARING WALLS. D. TRUSSES THAT EXTEND OUT OVER EXTERIOR BEARING WALLS TO COVER A PORCH, PATIO, OR DECK SHALL BE DESIGNED TO BEAR ON THE EXTERIOR BEARING WALLS TO TRANSFER LOAD AWAY FROM THE PORCH, PATIO, OR DECK BEAMS, UNLESS NOTED OTHERWISE.

E. AT ROOF OVERBUILD AREAS PROVIDE OVERBUILD TRUSSES AS PER TRUSS MANUFACTURER OR STICK FRAME. AS PER DETAIL 6/S6.2

G. SHOP DRAWING SUBMITTAL: CONTRACTOR SHALL SUBMIT COMPLETE CALCULATIONS AND SHOP DRAWINGS SHOWING PROPOSED TRUSS LAYOUT AND DESIGN TO BE REVIEWED BY THE ENGINEER BEFORE FABRICATION. THE REVIEW PERFORMED BY THE ENGINEER SHALL BE FOR GENERAL CONFORMANCE TO THE DESIGN CONCEPT ONLY. CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS OR OF THE TRUSS SPECIFICATIONS. ALSO, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY PROPOSED DEVIATIONS FROM THE DESIGN CONCEPT SHOWN IN THESE PLANS.

IV. STRUCTURAL STEEL:

A. MATERIALS:

1. WIDE FLANGE SECTIONS: ASTM A572 (50 ksi)
2. TUBES: ASTM A500 (46 ksi)
3. PIPE COLUMNS: ASTM A53, TYPES E OR S, GRADE B
4. OTHER SHAPES AND PLATES: ASTM A36
5. DEFORMED BAR ANCHORS (DBA): ASTM A496
6. HEADED STUD ANCHORS (HSA): ASTM A108
7. BOLTED CONNECTIONS: ASTM A325
8. ANCHOR BOLTS: ASTM A307

B. FABRICATION AND CONSTRUCTION SHALL COMPLY WITH THE LATEST IBC AND AISC CODES.

V. BRICK VENEER:

BRICK VENEER SHALL BE ATTACHED TO THE SUPPORTING WALL WITH CORROSION—RESISTANT METAL TIES. WHERE VENEER IS ANCHORED THROUGH THE USE OF CORRUGATED SHEET METAL TIES, THE TIES SHALL BE NO. 22 U.S. GAGE BY 7/8" MINIMUM AND THE DISTANCE SEPARATING THE VENEER FROM THE FACE OF THE SUPPORTING WALL SHALL BE A MAXIMUM OF 1 INCH. WHERE THE VENEER IS ANCHORED THROUGH THE USE OF METAL STRAND WIRE TIES, THE TIES SHALL BE NO. 9 U.S. GAGE WIRE MINIMUM AND THE DISTANCE SEPARATING THE VENEER FROM THE FACE OF THE SUPPORTING WALL SHALL BE A MAXIMUM OF 4.5 INCHES. TIES SHALL BE SPACED SO THEY INDIVIDUALLY SUPPORT NOT MORE THAN 2 SQUARE FEET OF VENEER AREA AND SHALL NOT BE SPACED MORE THAN 24 INCHES ON CENTER HORIZONTALLY AND VERTICALLY.

B. SEE THE BRICK VENEER STEEL ANGLE LINTEL SCHEDULE FOR BRICK SUPPORT OVER WALL OPENINGS.

PROVIDE FOR BRICK OR STONE VENEER INSTALLATIONS AT THE FOUNDATION CORROSION RESISTANT FLASHING EXTENDING UP A MINIMUM OF 3 COURSES WITH 3/16" WEEP HOLES EVERY 33" O.C. AND SUCH FLASHING MUST EXTEND 1/2" BEYOND THE FOUNDATION. THIS FLASHING IS REQUIRED WHERE STUCCO WEEP SCREEDS DO NOT EXTEND PAST FOUNDATIONS. FLASHING WHICH DO NOT EXTEND BEYOND OR BELOW THE FOUNDATION WILL NOT BE ACCEPTABLE. (ICE & WATER SHIELD OR SIMILAR MATERIALS).

VI. SPECIAL NOTES:

A. ALL WORK IS TO BE CONSISTENT WITH BEST BUILDING PRACTICES AND CONFORM TO LOCAL BUILDING CODE REQUIREMENTS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE STARTING CONSTRUCTION.

B. THE OWNER AND ALL CONTRACTORS INVOLVED WITH THE PROJECT SHALL THOROUGHLY REVIEW AND BECOME FAMILIAR WITH THESE DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.

ALL OMISSIONS OR CONFLICTS, INCLUDING DIMENSIONS, BETWEEN THE VARIOUS ELEMENTS OF THE DRAWNGS, DETAILS, AND/OR NOTES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT SHOWN.

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VII. ADDITIONS AND REMODELS:

A. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE STARTING CONSTRUCTION. DIMENSIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED WITHIN REASON, TO WORK WITH EXISTING CONDITIONS. ANY OMISSION OR CONFLICT OF INFORMATION BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, OR ANY DETRIMENTAL CONDITIONS DISCOVERED DURING THE COURSE OF CONSTRUCTION, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

B. ONLY THE NEW AREAS OF CONSTRUCTION HAVE BEEN CHECKED TO MEET LOCAL STRUCTURAL CODES. THERE HAS BEEN NO ATTEMPT TO CHECK THE EXISTING STRUCTURE FOR INADEQUACIES OR WHETHER THEY MEET LOCAL STRUCTURAL CODES. THE OWNER ASSUMES ALL LIABILITIES OR RISKS ASSOCIATED WITH THE EXISTING STRUCTURE AND ITS INTEGRATION WITH NEW AREAS OF CONSTRUCTION. C. TIE ALL NEW FOOTING AND FOUNDATION WALLS TO EXISTING FOOTING AND FOUNDATION WALLS WITH EPOXY DOWELED REBAR. —SEE DETAIL 3/S3.2

D. CONTRACTOR SHALL FIELD VERIFY THAT EXISTING ROOF FRAMING IS IN GOOD CONDITION BEFORE STARTING CONSTRUCTION. NOTIFY THE ENGINEER IF STRUCTURAL CONCERNS EXIST.

SHEET	DESCRIPTION
S1.1	INDEX, GENERAL NOTES, SCHEDULES
S2.1	ELEVATIONS AND PLAN LAYOUTS
S3.1	DETAILS

SHEET INDEX

ENGINEER'S STAMP PERTAINS TO STRUCTURAL INFORMATION ONLY NO. 189469 THOMAS A. HALES 10/25/19 ATE OF V

CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS, AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION.

METAL HOLDOWN SCHEDULE COMMENTS SIMPSON HOLDOWN ATTACHMENT STHD10, STHD14, HTT4, OR HDU4 MAY BE USED IN LIEU OF LSTHD8 LSTHD8 OR LSTHD8RJ (RIM JOIST (20)-16d SINKER NAILS STHD14, HTT4, OR HDU4 MAY BE USED IN LIEU OF STHD10 STHD10 OR2 (28)-16d SINKER NAILS STHD10RJ (RIM JOIST) STHD14 OR² STHD14RJ (RIM JOIST) HETALOR HOUSE MAY POXY HATTACHMENT STHD14 OR² STHD14RJ (30)-16d SINKER NAILS (18)—16d NAILS WITH 5/8" DIA. A307 ALL—THREAD ROD EPOXIED 8" MIN. INTO TOP OF FDTN. SEE DETAIL 5/S**3.2 FOR EPOXY ATTACHMEN** (10)—SDS1/4x2.1/2 SCREWS WITH 5/8" DIA. A307 LL—THREAD ROD EPOXIED 8" MIN. INTO TOP OF FDTN. HDU4-SDS2.5 HDU4 SEE DETAIL 5/S&.2 FOR EPOXY ATTACHMEN (14)—SDS1/4x2.1/2 SCREWS WITH 5/8" DIA. A307 ALL—THREAD ROD EPOXIED 11" MIN. INTO TOP OF FDTN. SEE DETAIL 5/S**8.2 FOR EPOXY ATTACHMENT** HDU5-SDS2.5 HDU5 (20)—SDS1/4x3 SCREWS WITH 7/8" DIA. A307 ALL—THREAD ROD EPOXIED 11" MIN. INTO TOP OF FDTN. SEE DETAIL 5/S&.2 FOR EPOXY ATTACHMENT HDQ8 HDQ8-SDS3

METAL HOLDOWN NOTES: . ALL HOLDOWNS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. SEE DETAILS4555ND 9/S4.2 . USE RIM JOIST MODEL OF STRAP IF STRAP IS LOCATED AT A RIM JOIST, OTHERWISE, A NON-RIM JOIST MODEL MAY

CONCRETE FOUNDATION WALL SCHEDULE								
			WALL R	EINFORCING				
MARK	WIDTH ⁸	MAX. HEIGHT ^{2,4,5}	VERTICAL ⁶	HORIZONTAL ^{1,3}	COMMENTS			
W2.0NR	8" MIN.	MEET MIN. FROST DEPTH	#4 AT 18" O.C.	#4 AT 12" O.C.	SEE DETAIL Z/GB.111/S4.1			
CFW3.0	8" MIN.	MEET MIN. FROST DEPTH	#4 AT 24" O.C.	#4 AT 12" O.C.	SEE DETAIL Z/GB.111/S4.1			
CFW4.0	8" MIN.	4'-0"	#4 AT 24" O.C.	#4 AT 15" O.C.	SEE DETAIL 6/S4.1			
CFW6.0	8" MIN.	6'-0"	#4 AT 24" O.C.	#4 AT 18" O.C.	SEE DETAIL 5/S4.1			
CFW8.0	8" MIN.	8'-0"	#4 AT 24" O.C.	#4 AT 19" O.C.	SEE DETAIL 5/S4.1			
CFW9.0	8" MIN.	9'-0"	#4 AT 16" O.C.	#4 AT 18" O.C.	SEE DETAIL 5/S4.1			
FW10.0	8" MIN.	10'-0"	#4 AT 9" O.C.	#4 AT 12" O.C.	SEE DETAIL 5/S4.1			

CONCRETE FOUNDATION WALL NOTES: CONCRETE FOUNDATION WALL NOTES:

1. LOCATE A HORIZONTAL BAR WITHIN 4" OF TOP AND BOTTOM OF WALL.

2. WALL HEIGHT MAY BE INCREASED AS NEEDED WHERE FOOTINGS NEED TO BE DROPPED FOR FROST PROTECTION OR SOIL CONDITIONS AS LONG AS UNBALANCED WALL HEIGHT (HEIGHT BETWEEN LOW AND HIGH GRADE) DOES NOT EXCEED THAT SHOWN. ADD ADDITIONAL HORIZONTAL REBAR AS NEEDED TO NOT EXCEED SPACING SHOWN.

3. UNLESS NOTED OTHERWISE, PLACE HORIZONTAL REINFORCING IN THE CENTER OF THE WALL THICKNESS. PLACE VERTICAL REINFORCING ON INTERIOR SIDE OF HORIZONTAL REINFORCING.

4. PROVIDE NOTCHES AND DROPS IN TOPS OF FOUNDATION AS NOTED ON PLANS AND WHERE REQUIRED FOR DOOR OPENINGS AND WHERE CONCRETE SLABS POUR OVER THE TOP OF FOUNDATION WALLS.

5. SEE DRAWINGS FOR ACTUAL HEIGHT.

6. PROVIDE VERTICAL REBAR DOWELS TO MATCH VERTICAL WALL REBAR SIZE AND SPACING TO TIE FTG. TO FDTN. WALL.

7. SOIL BACKFILL SHALL BE SOIL CLASSIFICATION TYPES GW, GP, SW, OR SP PER IBC TABLE 1610.1. SOIL SHALL NOT BE SUBMERGED OR SATURATED IN GROUND WATER.

8. SEE PLAN FOR ACTUAL WALL WIDTH.

WOOD BEAM/HEADER SCHEDULE 4, MARK ¹ COMMENT SIZE 2,3 COMMENTS WB2-5.5LVL | (2)-1.3/4"x5.1/2" LVL OTHERWISE IN BASEMENTS WITH CEILING
HEIGHTS LESS THAN 7'-10" (FOR
CEILING HEIGHTS GREATER THAN 7'-10"
USE WB2/3-10DF) -SEE NOTE 4 BELOW
-HEADERS MAY BE RECESSED INTO WALL
DOUBLE TOP PLATE AS REQUIRED FOR
WINDOW HEIGHTS -SEE DETAIL 10/S6.1 WB2-7.25LVL | (2)-1.3/4"x7.1/4" LVL (2)-2x8 FOR 2x4 WALLS WB2/3-8DF ⁴ (3)-2x8 FOR 2x6 WALLS WB2-9.5LVL | (2)-1.3/4"x9.1/2" LVL WB2-11.88LVL | (2)-1.3/4"x11.7/8" LVL WB2-- 14LVL (2)– 1.3/4"x14" LVL USE FOR BEAM/HEADER SPANS UP TO 5'-2" THAT ARE NOT NOTED OTHERWISE -SEE NOTE 4 BELOW (2)-2x10 FOR 2x4 WALLS WB2/3-10DF (3)-2×10 FOR 2×6 WALLS WB2-16LVL (2)- 1.3/4"x16" LVL WB2-6DF WB2- 18LVL (2)-1.3/4"x18" LVL (2)-2x6 DF#2 WB2-5.5LVL MAY BE USED AS ALTERNATI WB2-8DF (2)-2x8 DF#2(3)–1.3/4"x5.1/2" LVL WB2-7.25LVL MAY BE USED AS ALTERNA WB3-7.25LVL | (3)-1.3/4"x7.1/4" LVL WB2-10DF (2)-2x10 DF#2WB2-7.25LVL MAY BE USED AS ALTERNAT WB2-12DF (2)-2x12 DF#2WB3-9.5LVL | (3)-1.3/4"x9.1/2" LVL WB2-9.5LVL MAY BE USED AS ALTERNATI /B3-- 11.88LVL | (3)-- 1.3/4''x11.7/8'' LVL WB3-6DF (3)-2x6 DF#2 WB3-5.5LVL MAY BE USED AS ALTERNAT (3)-2x8 DF#2(3)–1.3/4"x14" LVL WB3-7.25LVL MAY BE USED AS ALTERNAT WB3-10DF WB3-16LVL (3)–1.3/4"×16" LVL (3)-2x10 DF#2WB3-7.25LVL MAY BE USED AS ALTERNATE (3)-2x12 DF#2 WB3-9.5LVL MAY BE USED AS ALTERNATE WB3-18LVL WB3-12DF (3)–1.3/4"x18" LVL WOOD BEAM NOTES:

1. BEAM MARKS WITH "DF" DESIGNATES THE USE OF DOUGLAS FIR-LARCH NO. 2 OR BETTER STANDARD LUMBER. BEAM MARKS WITH "LVL" DESIGNATES THE USE OF ENGINEERED LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES: $F_b = 2600$ psi, $F_v = 285$ psi, $F_{c.i} = 750$ psi, $F_c = 1.9 \times 10^6$ psi. 2. "DF" BEAM SIZES SHOWN ARE NOMINAL AND HAVE SMALLER ACTUAL BEAM DIMENSIONS AS BASED ON STANDARD LUMBER. PROVIDE 1/2" PLYWOOD OR OSB BETWEEN INDIVIDUAL BEAM-PLYS TO CREATE A BEAM THICKNESS TO MATCH THE WALL THICKNESS. 3. MULTIPLE MEMBER BEAMS/HEADERS SHALL BE NAILED TOGETHER WITH A MINIMUM OF 2 ROWS OF 16d NAILS AT 12" O.C. FOR BEAM DEPTHS 12 IN. OR LESS USE 3 ROWS OF 16d NAILS AT 12" O.C. FOR BEAM DEPTHS GREATER THAN 12 IN. 4. CONTACT THE ENGINEER FOR BEAM/HEADER SIZES WITH SPANS GREATER THAN 5'-2" THAT ARE NOT NOTED ON THE DRAWNGS. 5. "FLUSH", WHEN NOTED ON PLANS, INDICATES TO PLACE THE BEAM SO THAT THE TOP AND/OR BOTTOM OF THE BEAM IS FLUSH WITH THE SUPPORTED FRAMING. 6. DO NOT USE LVL BEAMS WHERE THEY MAY BE EXPOSED TO WEATHER (E.G. DECK FRAMING).

SHEAR WALL SCHEDULE												
	SHEAR WALL CO		PANEL ATTACHN		WALL ANCHORAGE		COMMENTS					
WALL MARK	PANEL ^{5,6} MATERIAL	SIDES	PANEL ² EDGES	PANEL FASTENER 3,9	EDGE NAILING	FIELD NAILING	ANCHOR BOLT/1,7 FASTENER	SPACING				
SW1	1/2" GYPSUM WALLBOARD 4	BOTH SIDES	BLOCKED	NO. 6x1.1/4" SCREWS	4" O.C.	16" O.C.	16d NAILS	4" O.C.	USE SW4 AS ALTERNATE			
SW2	7/16" OSB SHEATHING	ONE SIDE	BLOCKED	8d NAILS	4" O.C.	12" O.C.	5/8" x12" A.B.	32" O.C.	SEE NOTE 8 BELOW			
SW3	7/16" OSB SHEATHING 11	BOTH SIDES	BLOCKED	8d NAILS		12" O.C.	NON-RESIDENTIAL 1/2" x10" A.B. RESIDENTIAL	16" O.C.	SEE NOTE 8 & 11 BELOW			
SW4	3/8" OR 7/16" OSB SHEATHING	ONE SIDE	BLOCKED	8d NAILS	6" O.C.	12" O.C.	RESIDENTIAL	32" O.C.	SEE NOTE 8 BELOW			
SW5	7/16" OSB SHEATHING	BOTH SIDES	BLOCKED	SEE DETAIL 5/S5	.2		SEE DETAIL 5/S5.2		SEE NOTE 8 BELOW			
SW5	7/16" OSB SHEATHING	BOTH SIDES	BLOCKED	SEE DETAIL 5/S5	.2		SEE DETAIL 5/S5.2		SEE NOTE 8 BELO			

SHEAR WALL NOTES:

1. ANCHOR BOLTS SHALL HAVE 7" MIN. EMBEDMENT (ALL—THREAD EPOXY BOLTS W/ 7" MIN. EMBEDMENT MAY BE USED IN LIEU OF A.B. —SEE 3/S&.2)

2. PROVIDE SOLID BLOCKING AT ALL PANEL EDGES FOR WALLS INDICATED TO BE 'BLOCKED'

3. SCREWS FOR WALLBOARD SHALL BE TYPE 'W' OR 'S' DRYWALL SCREWS (5d COOLER OR WALLB'D NAILS MAY BE USED IN LIEU OF SCREWS)

4. USE 5/8" FIRE—RATED WALLBOARD WHERE REQUIRED FOR FIRE SEPARATION.

5. 3/8" OR 7/16" OSB SHEATHING ON ONE SIDE OF WALL MAY BE USED IN LIEU OF GYPSUM WALLBOARD FOR ALL SHEAR/BRACED WALLS USING GYPSUM WALLBOARD NOTED ABOVE. ATTACH W/ 8d NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. IN—FIELD. SOLID BLOCK.

6. OSB SHEATHING SHALL BE APA RATED (INT. GRADE WITH EXT. GLUE) WITH A MINIMUM 24/O SPAN RATING.

7. USE 16d NAILS AT 4" O.C. WALL ANCHORAGE WHEN WALL RESTS ON WOOD FLOOR FRAMING AND NOT DIRECTLY ON FOUNDATION WALL OR FOOTING. PROVIDE SOLID BLOCKING BELOW FLOOR SHEATHING.

8. TO HELP RESIST SEISMIC/WIND FORCES, ALL SHEAR WALLS SHALL BE ATTACHED TO THE TOP AND BOTTOM BY ONE OF THE METHODS SHOWN IN THE DETAILS ONN.SHEET S4.1 THRU 56.3, U.N.O.

9. 16 GAGE STAPLES WITH 7/16" MIN. CROWN WIDTH AND 1" MIN. PENETRATION INTO SUPPORTING FRAMING MEMBERS MAY BE USED IN LIEU OF NAILS AT A SPACING OF ONE—HALF THAT DESIGNATED FOR NAILS,

10. PROVIDE SHEATHING ON SIDE OF WALL WHERE MARK/LABEL IS LOCATED.

11. WHEN PANELS ARE APPLIED ON BOTH FACES OF A WALL PANEL, JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING SHALL BE 3" NOMINAL OR THICKER AT ADJOINING PANEL EDGES AND NAILS ON EACH SIDE SHALL BE STAGGERED.

					Sł	HALL BE	3" NOMI	NAL OR	THICKER	AT ADJ	OINING P	ANEL EDGES A	IND NAILS ON EACH SIDE SI	HALL BE STAGGERED.	
			CONC	RETE	FOOT	ING S	CHEDU	JLE 1,2,3					METAL	CONNECTOR SCHEDULE	
				CROSSWISE REINFORCING			LENGTHWISE REINFORCING			CING	MARK	SIMPSON CONNECTOR	ATTACHMENT 1	COMMENTS	
MARK	WIDTH	LENGTH	THICK.	NO.	SIZE	LENGTH	SPACE	NO.	SIZE	LENGTH	SPACE	A34	A34 ANCHOR	(8)-8d NAILS	
	UOUS FO		ļ	ļ	<u> </u>	<u> </u>	ļ.,		<u> </u>	ļ		A35	A35 ANCHOR	(12)-8d NAILS	
FC1.5	1'-6"	CONT.	10"	N/A	N/A	N/A	N/A	2	#4	CONT.	12"	CS14x40	CS14x40" LONG STRAP	FILL HOLES WITH 10d NAILS	SEE DETAIL 1/S6.2
FC1.7	1'-8"	CONT.	10"	N/A	N/A	N/A	N/A	2	#4	CONT.	14"	CS14x48	CS14x48" LONG STRAP	FILL HOLES WITH 10d NAILS	SEE DETAIL 2/S6.2
FC2.0	2'-0"	CONT.	12''	N/A	N/A	N/A	N/A	3	#4	CONT.	9"	CS16x40	CS16x40" LONG STRAP	FILL HOLES WITH 8d NAILS	SEE DETAIL 1/S6.2
FC2.5	2'-6"	CONT.	12"		#4	2'-0"	18''	4	#4	CONT.	8"	CS16x48	CS16x48" LONG STRAP	FILL HOLES WITH 8d NAILS	SEE DETAIL 2/S6.2
FC3.0	3'-0"	CONT.	12"		#4	2'-6"	18''	5	#4	CONT.	7.5"	DSC5R ²	DSC5R/L-SDS3 TWIST STRAP	(24)-SDS 1/4"x3"	SIM. TO DETAIL 9/S6.1
COLLAD	F FOOTING		1						-	-		H1	H1 ANCHOR	(10)-8d NAILS	
FS2.0	E FOOTING 2'-0"	2'-0"	12"	3	#4	1'-6"	9"	3	#4	1'-6"	9"	HTS30C ²	HTS30C TWIST STRAP	(20)- 10d NAILS	SEE DETAIL 9/S6.1
FS2.5	2'-6"	2'-6"	12"	4	#4	2'-0"	8"	4	#4	2'-0"	8"	LTP4	LTP4 ANCHOR	(12)-8d NAILS	,
FS3.0	3'-0"	3'-0"	12"	5	#4	2'-6"	7.5"	5	#4	2'-6"	7.5"	MST37	MST37 STRAP	(42) 16d NAILS	SEE DETAIL 10&11&12/S6
FS3.5	3'-6"	3'-6"	12"	5	#4	3'-0"	9"	5	#4	3'-0"	9"	MST48	MST48 STRAP	(34) 16d NAILS	SEE DETAIL 6/S5.2
FS4.0	4'-0"	4'-0"	12"	6	#4	3'-6"	8.4"	6	#4	3'-6"	8.4"	MSTA21	MSTA21 STRAP	(16)- 10d NAILS	SEE DETAIL 6/S5.2
FS4.5	4'-6"	4'-6"	12"	7	#4	4'-0"	8"	7	#4	4'-0"	8"	MSTC48B3	MSTC48B3 STRAP	(54)- 10d NAILS	SEE SIMPSON CATALOG
FS5.0	5'-0"	5'-0"	14"	8	#4	4'-6"	7.7"	8	#4	4'-6"	7.7"	MTS24C ²	MT24C TWIST STRAP	(14)- 10d NAILS	SEE DETAIL 11/S5.1 & 9/S
1 00.0			+ ''	 	 " 	+ • •	 '''	 	 "'	+ • •	 '''	MTS30C ²	MTS30C TWIST STRAP	(14)- 10d NAILS	SEE DETAIL 9/S6.1
			1						+	+		METAL CON	NECTOR NOTES:		•
1. PLACE 2. ALSO	CONCRETE FOOTING NOTES: . PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER UNLESS NOTED OTHERWISE. 2. ALSO PROVIDE SCHEDULED REINFORCING AT TOP OF FOOTING WHEN NOTED ON PLANS 3. FC — CONTINUOUS FOOTING; FS — SQUARE FOOTING								ER UNLES	 USE 1.1/2" LONG NAILS WHEN INSTALLED IN 1.1/2" WOOD THICKNESS. OTHERWISE USE FULL LENGTH NAILS. STRAP MAY REQUIRE BEING INSTALLED PRIOR TO INSTALLATION OF WALL SHEATHING, AND/OR ADJACENT FRAMING, AND/OR SETTING TRUSSES. COORDINATE AS NECESSARY. 					

SYMBOL / ABBREVIATION SYMBOL / ABBREVIATION DESCRIPTION DESCRIPTION "ANCHOR BOLT" PREFAB STONE A.B. "ABOVE" BRICK/NATURAL STONE ABV. A.P.O. "AS PER OWNER" NOTCH IN TOP OF FDTN. WALL BLW. "BELOW" CONC. FDTN. WALL "BEARING" BRG. CONC. FOOTING "CONTROL/CONSTRUCTION JOINT" C.J. CONC. "CONCRETE" STEPPED FOOTING CONT. "CONTINUOUS" 2x6 BEARING WALL DET. "DETAIL" 2x4 BEARING WALL "EACH" 2x6 NON-BEARING WALL FDTN. "FOUNDATION" 2x4 NON-BEARING WALL 2x6 NON-BEARING SHEAR WALL FTG. "FOOTING" G.L.B. "GLU-LAM BEAM" 2x4 NON-BEARING SHEAR WALL MAX. "MAXIMUM" HEADER/BEAM \boxtimes 6x6 POST "MINIMUM" "ON CENTER" OPP. "OPPOSITE" "SIMILAR"

GENERAL STRUCTURAL NOTES

THE NATURAL UNDISTURBED SOIL BELOW ALL FOOTINGS SHALL BE VERIFIED FOR BEARING SUITABILITY. REMOVE ALL SOFT SPOTS AND REPLACE WITH COMPACTED STRUCTURAL FILL

SOIL BEARING PRESSURE IS ASSUMED TO BE AT LEAST 1500 PSF BY OWNER. NOTIFY THE ENGINEER IF THE SOIL BEARING PRESSURE IS FOUND TO BE LESS THAN 1500 PSF.

ALL FOOTINGS SHALL BE ESTABLISHED ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL. ALL EXTERIOR FOOTINGS SHALL HAVE A MINIMUM DEPTH OF 30", OR THE LOCAL FROST DEPTH, WHICHEVER IS GREATER, BELOW FINISHED GRADE.

D. COMPACTED STRUCTURAL FILL: ALL FILL MATERIAL SHALL BE A WELL—GRADED GRANULAR MATERIAL WITH A MAXIMUM SIZE LESS THAN 4 INCHES AND WITH NOT MORE THAN 10 PERCENT PASSING A NO. 200 SIEVE. IT SHALL BE COMPACTED TO 95 PERCENT OF THE MAXIMUM LABORATORY DENSITY AS DETERMINED BY ASTM D 1557. ALL FILLS SHALL BE TESTED. COMPACTED STRUCTURAL FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS.

F. SLABS ON GRADE SHALL HAVE CONTROL OR CONSTRUCTION JOINTS AS PER DETAILS.

THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE FOR FOOTINGS AND FOUNDATIONS SHALL BE 2500 psi FOR COMMERCIAL OR NON-RESIDENTIAL STRUCTURES AND 3000 psi FOR RESIDENTIAL STRUCTURES. USE 4000 psi FOR SUSPENDED SLABS AND ALL OTHER CONCRETE

I. SUSPENDED SLABS AND ANY SUPPORTING STEEL BEAMS SHALL BE APPROPRIATELY FULLY SHORED 14 DAYS MINIMUM.

J. AT CONTRACTOR'S AND/OR OWNER'S OPTION USE EPOXY COATED REBAR IN SUSPENDED SLABS FOR EXTENDED SLAB LIFE.

REINFORCEMENT STEEL SHALL MEET THE FOLLOWING CONCRETE COVER REQUIREMENTS:

K. EPOXY BOLTS SHALL BE ALL—THREAD GRADE A307 MIN. SMOOTH SHANK OR EXPANSION BOLTS (WEDGE ANCHORS) SHALL NOT BE USED.

1. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ---- 3"
2. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER ---- 1.1/2"
3. FORMED CONCRETE NOT EXPOSED TO EARTH OR WEATHER --- 3/4"

N. FOR ALL OPENINGS LESS THAN 6'-6" IN CONCRETE FOUNDATION WALLS, PROVIDE A 10" DEEP CONCRETE HEADER WITH (2)—#4 BARS MINIMUM, UNLESS NOTED OTHERWISE. EXTEND BARS 24" MINIMUM BEYOND EDGE OF THE OPENINGS AND PLACE BARS 2" ABOVE TOP OF OPENING. CONTACT THE ENGINEER FOR REINFORCING OF OPENINGS GREATER THAN 6'-6" IF NOT NOTED ON PLANS.

D. FOUNDATION ANCHOR BOLTS SHALL BE 5/8" DIA. x12" MIN. FOR COMMERCIAL OR NON-RESIDENTIAL STRUCTURES AND 1/2" DIA. x10" MIN. FOR RESIDENTIAL STRUCTURES UNLESS NOTED OTHERWISE. SPACING OF ANCHOR BOLTS SHALL BE 32" O.C. MAX. WITH ONE LOCATED AT LEAST WITHIN 4" TO 12" OF EACH END OF SILL PLATE. SEE SHEAR WALL SCHEDULE FOR MORE STRINGENT ANCHOR BOLT REQUIREMENTS AT SPECIFIC SHEAR WALLS.

1. PROVIDE 7" MIN. EMBEDMENT INTO CONCRETE. 2. USE 0.229"x3"x3" PLATE WASHERS AT BOLTS FOR PLATE ANCHORAGE. 3. EPOXY BOLTS MAY BE USED IN LIEU OF ANCHOR BOLTS (SEE DETAIL 3/S&.2).

ALL WOOD IN CONTACT WITH CONCRETE, MASONRY, OR SOIL SHALL CONSIST OF TREATED WOOD OR HAVE A MOISTURE BARRIER PLACED BETWEEN WHICH MEETS THE CODE REQUIREMENTS. FASTENERS INTO TREATED WOOD SHALL BE OF HOT-DIPPED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER.

1. GLU-LAM TIMBER: 24F-V4 DF/DF 2. FRAMING LUMBER: DOUGLAS FIR-LARCH NO. 2 OR BETTER 3. SHEATHING: APA RATED (INT. GRADE WITH EXT. GLUE) AS FOLLOWS WITH THE FOLLOWING MINIMUM NAILING REQUIREMENTS, U.N.O. PLACE ROOF AND FLOOR SHEATHING IN STAGGERED LAYOUT.

5/8" THICK OSB PANELS WITH A 32/16 SPAN RATING (7/16" THICK PANELS WITH 24/16 SPAN RATING MAY BE USED FOR RESIDENTIAL BUILDINGS WITH SNOW LOADS NOT MORE THAN 40 PSF). NAIL ALL PANELS WITH 10d COMMON NAILS AT 6" O.C. AT ALL SUPPORTED EDGES, BLOCKING, TRUSS DRAG STRUTS, AND GABLE END WALLS/TRUSSES, AND AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS, PLACE PANELS WITH LONG DIMENSIONS PERPENDICULAR TO SUPPORTS CONTINUOUS OVER TWO OR MORE SPANS. (8d NAILS MAY BE USED WITH 7/16" PANELS).

3/4" THICK TONGUE AND GROOVE OSB PANELS. GLUE AND NAIL ALL PANELS WITH 10d COMMON NAILS AT 6" O.C. AT ALL SUPPORTED EDGES AND BLOCKING, AND AT 10" O.C. AT ALL INTERMEDIATE SUPPORTS. PLACE PANELS WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS CONTINUOUS OVER TWO OR MORE SPANS.

7/16" THICK OSB PANELS. UNLESS NOTED OTHERWISE IN THE SHEAR WALL SCHEDULE, NAIL ALL PANELS WITH 8d COMMON NAILS AT 4" O.C. AT ALL EDGES AND AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS.

4. 16 GAGE STAPLES WITH 7/16" MIN. CROWN WIDTH AND 1" MIN. PENETRATION INTO SUPPORTING FRAMING MEMBERS MAY BE USED IN LIEU OF NAILS AT A SPACING OF ONE—HALF THAT DESIGNATED FOR NAILS.

FOR SPANS OF 6'-0" AND GREATER, AT EXTERIOR WALLS, PROVIDE A MINIMUM OF 2 FULL HEIGHT KING STUDS (TOP PLATE TO BOTTOM PLATE) AT THE ENDS OF ALL BEAMS, UNLESS NOTED OTHERWISE. FOR SPANS LESS THAN 6'-0", PROVIDE A MINIMUM OF 1 FULL HEIGHT KING STUD.

ALL WOOD POSTS SHALL HAVE APPROPRIATE SIMPSON POST CAPS AND BASE CONNECTORS INSTALLED GOOD FOR AT LEAST 900 POUNDS UPLIFT. WOOD POSTS INSTALLED ON CONCRETE SHALL HAVE AT LEAST A 1" STANDOFF BASE. WHERE POSTS ARE INSTALLED ON CONC. PIERS OR FOOTINGS. SEE DETAILS 9/S4.1, 10/S4.1 AND 8/S4.2 FOR ADDITIONAL INFORMATION.

F. USE APPROPRIATE SIMPSON HANGERS WHERE JOISTS AND BEAMS NEED TO HANG FROM SUPPORTING BEAMS. USE TOP FLANGE HANGERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS, AS PER DETAIL 10/S5.2.

G. ALL METAL CONNECTORS, STRAPS, HOLDOWNS, HANGERS, ETC. CALLED OUT ON THE DRAWINGS SHALL BE INSTALLED WITH APPROPRIATE NAILS, SCREWS, BOLTS, ATTACHMENTS, ETC. AS PER THE MANUFACTURER'S RECOMMENDATIONS.

B. PROVIDE SUPPORT STUDS AT THE ENDS OF ALL BEAMS, HEADERS, AND GIRDER TRUSSES AS FOLLOWS, UNLESS NOTED OTHERWISE:

SPANS LESS THAN 5'-0": 1 SUPPORT STUD MINIMUM. SPANS 5'-0" TO 10'-0": 2 SUPPORT STUDS MINIMUM. SPANS 10'-0" TO 14'-0": 3 SUPPORT STUDS MINIMUM. SPANS GREATER THAN 14'-0": 4 SUPPORT STUDS MINIMUM.

D. USE APPROPRIATE SIMPSON POST CAPS / TIES TO CONNECT BEAMS TO POSTS / STUDS FOR SPANS OF 6'-0" AND GREATER.

WALL LEGEND AND ABBREVIATIONS

M. REINFORCEMENT STEEL SHALL HAVE THE FOLLOWING MINIMUM LAP SPLICE LENGTHS, UNLESS NOTED OTHERWISE ON DRAWINGS

E. ALL CONCRETE SLABS SHALL BE PLACED OVER 4" MINIMUM FREE DRAINING GRANULAR BASE OVER UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL

H. REINFORCEMENT STEEL SHALL BE GRADE 60 (Fy = 60 KSI).

1. 30 BAR DIA. FOR #3 AND #4 BARS 2. 40 BAR DIA. FOR #5 THRU #8 BARS

II. WOOD FRAMING:

FLOOR:

SEE DETAIL 11/S5.1 & 9/S6.2

TYP.

U.N.O.

"TYPICAL"

"UNLESS NOTED OTHERWISE"

A. MATERIALS:

CONCRETE, FOOTINGS, AND FOUNDATIONS:

GENERAL INDEX,

SCHEDNLES

NOTES,

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04 WEST PLEASANT VIEW CODEN, UTAH 84414
PHONE: (801)—782—0484
FAX: (801)—782—8631
WWW.LOMONDVIEW.COM

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Ogden City - 2807 Quincy - Detached Garage (chg to 0484120420, #12021

BRICK VENEER STEEL ANGLE LINTEL SCHEDULE

COMMENTS

CONNECT STEEL ANGLE TO LVL BEAM WITH 1/2" DIA. x 3" LAG SCREWS AT 24" O.C.

ANGLE SIZE

L3.1/2"x3.1/2"x1/4"

L4"x3.1/2"x1/4"

L5"x3.1/2"x1/4"

L5"x3.1/2"x1/4"

1. ALL STEEL LINTELS SHALL HAVE A MINIMUM BEARING LENGTH OF 1" PER FOOT OF OPENING OR 4" MINIMUM TYPICAL. MAXIMUM BEARING LENGTH NEED NOT EXCEED 12".

2. LINTELS ARE DESIGNED TO SUPPORT UNIFORM LOADS CONSISTING ONLY OF WEIGHT OF WALL WITHIN A 60 DEGREE ISOCELES TRIANGLE AREA ABOVE OPENING.

3. ALL STEEL LINTELS ARE TO HAVE LONG LEG VERTICAL.

4. ALL ANGLE LINTELS SHALL BE CORROSIVE RESISTANT.

OPENING SIZE

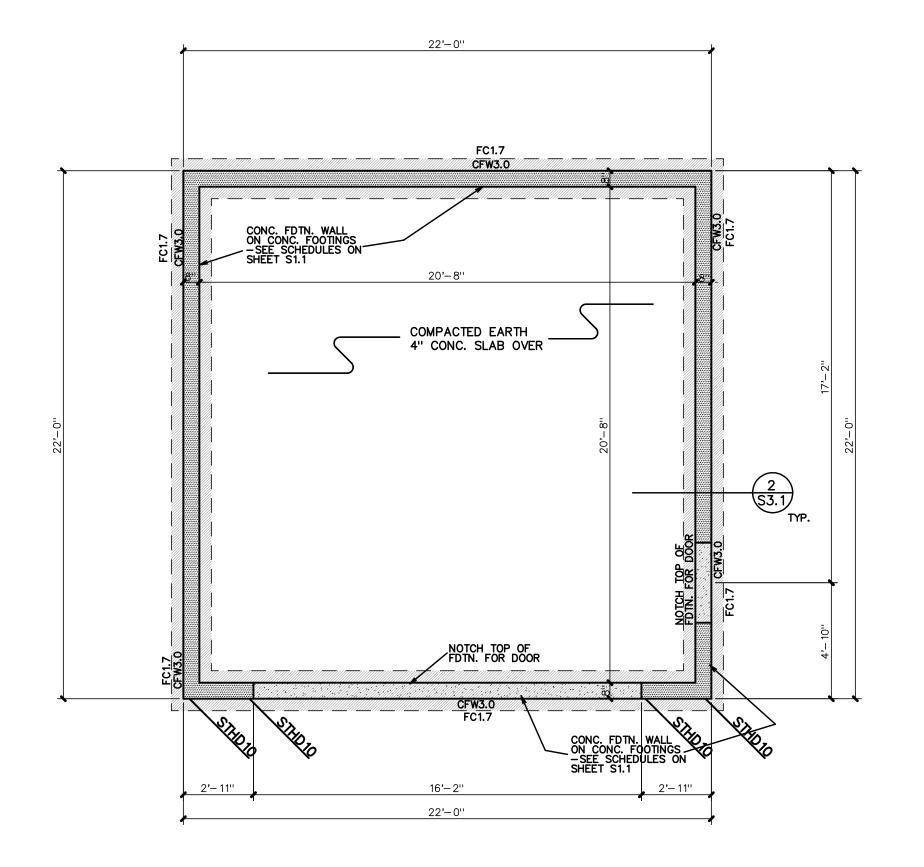
0'-0" TO 6'-11"

7'-0" TO 8'-11"

9'-0" TO 9'-11"

10'-0" TO 18'-0"

BRICK VENEER STEEL ANGLE LINTEL NOTES:



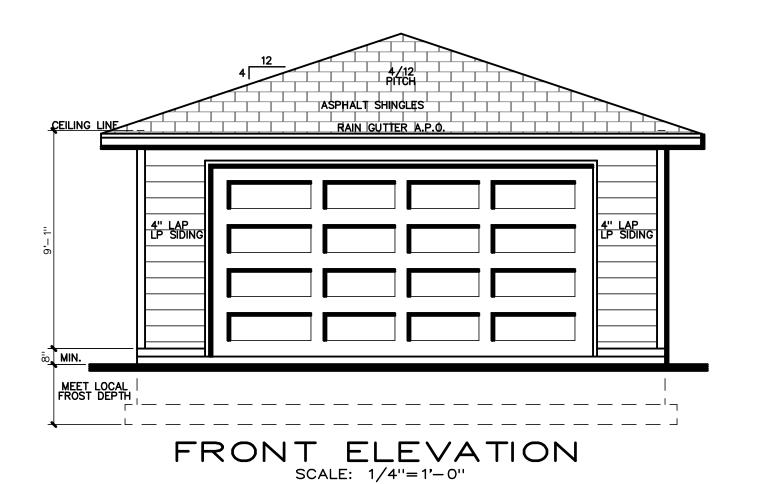
FOUNDATION PLAN

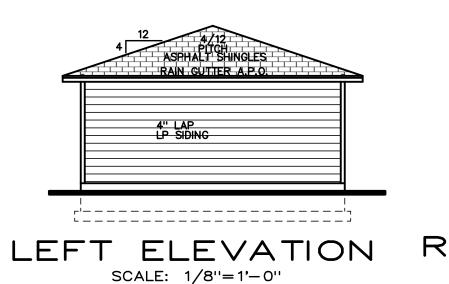
SCALE: 1/4"=1'-0"

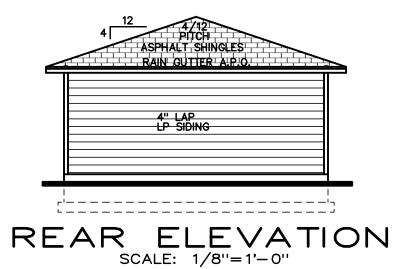
GIRDER TRUSS FOR HIP ROOF DOUBLE GARAGE 4" CONC. SLAB
PROVIDE 5/8" TYPE 'X' GYPSUM BOARD
ON WALLS, CEILING, AND BEAMS GIRDER TRUSS FOR HIP ROOF WB2-11.88LVL 160x80 GARAGE DOOR NOTE TO TRUSS COMPANY:

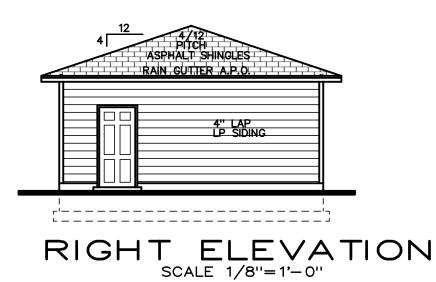
IF TRUSSES ARE UNABLE TO BE DESIGNED
TO WORK AS SHOWN IN DRAWINGS (INCLUDING
ATTIC BONUS ROOMS, VAULTED AND RAISED
CEILINGS, ETC.) NOTIFY DESIGNER AND
CONTRACTOR FOR RESOLUTION BEFORE
PROCEEDING WITH FABRICATION OF TRUSSES.
ALSO REVIEW GENERAL NOTES AND ALL OTHER
APPLICABLE NOTES AND DETAILS BEFORE
PROCEEDING WITH FABRICATION OF TRUSSES. 22'-0"

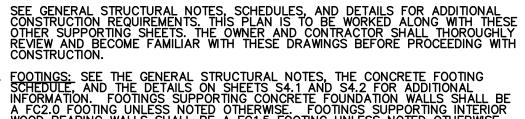
MAIN FLOOR PLAN SCALE: 1/4"=1'-0" GARAGE AREA = 484 SQ. FT.











SCHEDULE, AND THE DETAILS ON SHEETS S4.1 AND S4.2 FOR ADDITIONAL INFORMATION. FOOTINGS SUPPORTING CONCRETE FOUNDATION WALLS SHALL BE A FC2.0 FOOTING UNLESS NOTED OTHERWISE. FOOTINGS SUPPORTING INTERIOR WOOD BEARING WALLS SHALL BE A FC1.5 FOOTING UNLESS NOTED OTHERWISE. FOOTINGS SUPPORTING A COV. PATIO/DECK POST SHALL BE A FS3.0 FOOTING UNLESS NOTED OTHERWISE. SEE DETAILS 3/S4.1 AND 4/S4.1 FOR FOOTING TEPS, CORNERS, AND INTERSECTIONS.

NOTES TO PLAN:

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OGDEN, UTAH 84414
PHONE: (801)—782—0484
FAX: (801)—782—8631
WWW.LOMONDVIEW.COM

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ANCHOR BOLTS: SEE THE GENERAL STRUCTURAL NOTES AND SHEAR WALL SCHEDULE ON SHEET S1.1 FOR FOUNDATION ANCHOR BOLT REQUIREMENTS.

HOLDOWNS: SEE THE METAL HOLDOWN SCHEDULE ON SHEET S1.1 AND DETAILS 5 & 9/S4.2 FOR ADDITIONAL INFORMATION. PROVIDE HOLDOWNS AS NOTED ON THE DRAWINGS. USE RIM JOIST VERSION OF STRAP WHEN LOCATED AT RIM JOIST. FOR MISSED OR MISPLACED HOLDOWNS USE AN ALTERNATE HOLDOWN STRAP AS NOTED IN THE COMMENTS COLUMN OF THE METAL HOLDOWN

RETAINING WALLS: SEE DETAILS 1/S4.1 AND 2/S4.1 FOR RETAINING WALL CONSTRUCTION INFORMATION FOR WALLS RETAINING LANDSCAPE AREAS ONLY. CONTACT THE DESIGNER FOR RETAINING WALLS EXCEEDING THE HEIGHT SHOWN IN THE DETAILS OR AREAS WHERE VEHICLE LOADING WILL BE WITHIN FOUR FEET OF TOP OF WALL.

<u>DECK FOOTINGS:</u> PLASTIC CONCRETE SPOT FOOTING FORMS WITH EQUIVALENT OR GREATER FOOTING FOOTPRINT AND REINFORCING MAY BE USED IN PLACE OF TRADITIONALLY FORMED FOOTINGS. 8. CONCRETE PORCH SLABS: PROVIDE REINFORCING FOR SELF SUSPENDED CONCRETE PORCH SLABS AS SHOWN IN DETAIL 4/S5.2.

9. CONCRETE SLABS OVER BACKFILL: PROVIDE REBAR DOWELS FROM CONCRETE SLABS TO ADJACENT CONCRETE FOUNDATION WALLS OVER BACKFILL AREAS AS SHOWN IN DETAIL 3/S5.2. O. CONCRETE SLAB CONTROL JOINTS: SLABS ON GRADE SHALL HAVE CONTROL OR CONSTRUCTION JOINTS PROVIDED AT A SPACING NOT TO EXCEED 30 TIMES THE SLAB THICKNESS IN ANY DIRECTION. INSTALL JOINTS SO THE LENGTH TO WIDTH RATIO BETWEEN THE JOINTS IS NOT MORE THAN 1.25 TO 1. INSTALL CONTROL JOINTS WITHIN 24 HOURS OF CONCRETE PLACEMENT BY SAW CUTTING TO A DEPTH OF 1/4 THE THICKNESS OF THE SLAB. ALL DISCONTINUOUS CONTROL OR CONSTRUCTION JOINTS SHALL BE REINFORCED WITH (2)—#4 x 48" REBAR. SEF DETAILS.

WALLS: 2x4 WALLS ARE SHOWN WITH A 3.1/2" THICKNESS AND 2x6 WALLS ARE SHOWN WITH A 5.1/2" THICKNESS. ALL BEARING, SHEAR, AND BRACED WALLS SHALL HAVE STUDS PLACED AT 16" O.C. MAXIMUM, UNLESS NOTED OTHERWISE. SHEAR WALLS: SEE THE SHEAR WALL SCHEDULE FOR ADDITIONAL INFORMATION. ALL EXTERIOR WALLS SHALL BE A SW2 TYPE SHEAR WALL, UNLESS NOTED OTHERWISE, TO HELP RESIST SEISMIC/WIND FORCES. ALL SHEAR WALLS SHALL BE ATTACHED AT THE TOP AND BOTTOM BY ONE OF THE METHODS SHOWN IN THE DETAILS ON SHEETS S4.1 THRU S6.3, U.N.O. WALLS NOTED AS 'BRACED WALLS" SHALL BE A SW1 SHEAR WALL TYPE.

3. BEARING AND EXTERIOR WALLS: ALL BEARING AND EXTERIOR WALLS SHALL CONSIST OF FULL HEIGHT STUD FRAMING AND BE ATTACHED AT THE TOP AND BOTTOM BY ONE OF THE METHODS SHOWN IN THE DETAILS ON SHEETS S4.1 THRU S6.3, U.N.O. ALL BEARING WALL OPENINGS SHALL HAVE A HEADER PROVIDED AS NOTED ON THE PLANS.

14. WOOD BEAMS AND HEADERS: UNLESS SPECIFICALLY CALLED OUT ON THE DRAWING, SEE THE WOOD BEAM/HEADER SCHEDULE FOR SIZES AND ADDITIONAL INFORMATION. CONTACT THE DESIGNER FOR WOOD BEAMS OR HEADERS NOT DESIGNATED ON PLANS THAT HAVE A SPAN GREATER THAN 5'-2". SEE THE WOOD BEAM/HEADER SCHEDULE FOR SPANS UP TO 5'-2" THAT ARE NOT NOTED OTHERWISE ON THE PLANS.

5. FLOOR FRAMING: ALL FLOOR JOISTS SHALL BE SUPPORTED AT BEARING POINTS BY ONE OF THE METHODS SHOWN IN THE DETAILS ON SHEETS S5.1 THRU S5.2, U.N.O. FLOOR JOISTS THAT RUN PARALLEL TO EXTERIOR, BEARING, AND/OR SHEAR WALLS SHALL HAVE SOLID BLOCKING PROVIDED BY ONE OF THE METHODS SHOWN IN DETAILS 2, 3, 5, 6, 8, OR 9/S5.1. WHERE POSSIBLE, ALL FLOOR FRAMING SHALL BE CONTINUOUS OVER INTERMEDIATE BEARING SUPPORTS.

5. FLOOR FRAMING PERFORMANCE: THE FLOOR FRAMING SYSTEM DESIGNATED IN THESE DRAWINGS EXCEED THE MINIMUM CODE REQUIREMENTS AND REPRESENT A STANDARD FLOOR PERFORMANCE. HOWEVER, DUE TO VARIATIONS IN AN INDIVIDUAL'S PERCEPTION OF AN ACCEPTABLE FLOOR PERFORMANCE, THE OWNER/CONTRACTOR SHALL VERIFY THAT THE DESIGNATED FLOOR FRAMING SYSTEM IS ACCEPTABLE TO THE OWNER'S EXPECTATIONS BEFORE BEGINNING FLOOR CONSTRUCTION.

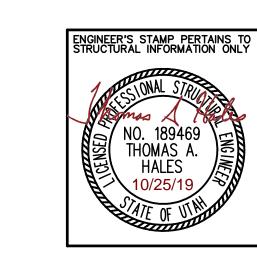
18. METAL CONNECTORS: PROVIDE METAL CONNECTORS AS NOTED ON THE DRAWINGS. SEE THE METAL CONNECTOR SCHEDULE ON SHEET S1.1 FOR ADDITIONAL INFORMATION.

19. <u>DECK FLOORS:</u> ALL DECK FLOORS SHALL BE HORIZONTALLY TIED TO INTERIOR FLOORS TO RESIST SEISMIC FORCES. SEE DETAIL 11/S5.1

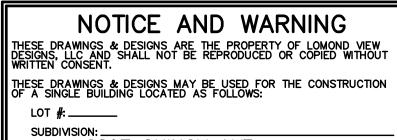
20. TIE UPPER FLOOR WALLS TO LOWER FLOOR WALLS WITH SIMPSON MST48 STRAP WHERE NOTED ON PLANS. SEE METAL CONNECTOR SCHEDULE AND DETAIL 6/S5.2.

21. TRUSS FABRICATION: IF TRUSSES ARE UNABLE TO BE DESIGNED TO WORK WITH THE LAYOUT AS SHOWN IN THE DRAWINGS (INCLUDING ATTIC BONUS ROOMS, VAULTED CEILINGS, RAISED CEILINGS, ETC.), NOTIFY THE DESIGNER AND CONTRACTOR FOR RESOLUTION BEFORE PROCEEDING WITH FABRICATION OF

23. TRUSS DRAG STRUTS: TRUSSES NOTED AS DRAG STRUTS SHALL BE DESIGNED FOR A 200 PLF MIN. IN-PLANE HORIZ. SEISMIC LOAD APPLIED AT THE TRUSS TOP CHORD UNLESS NOTED OTHERWISE.

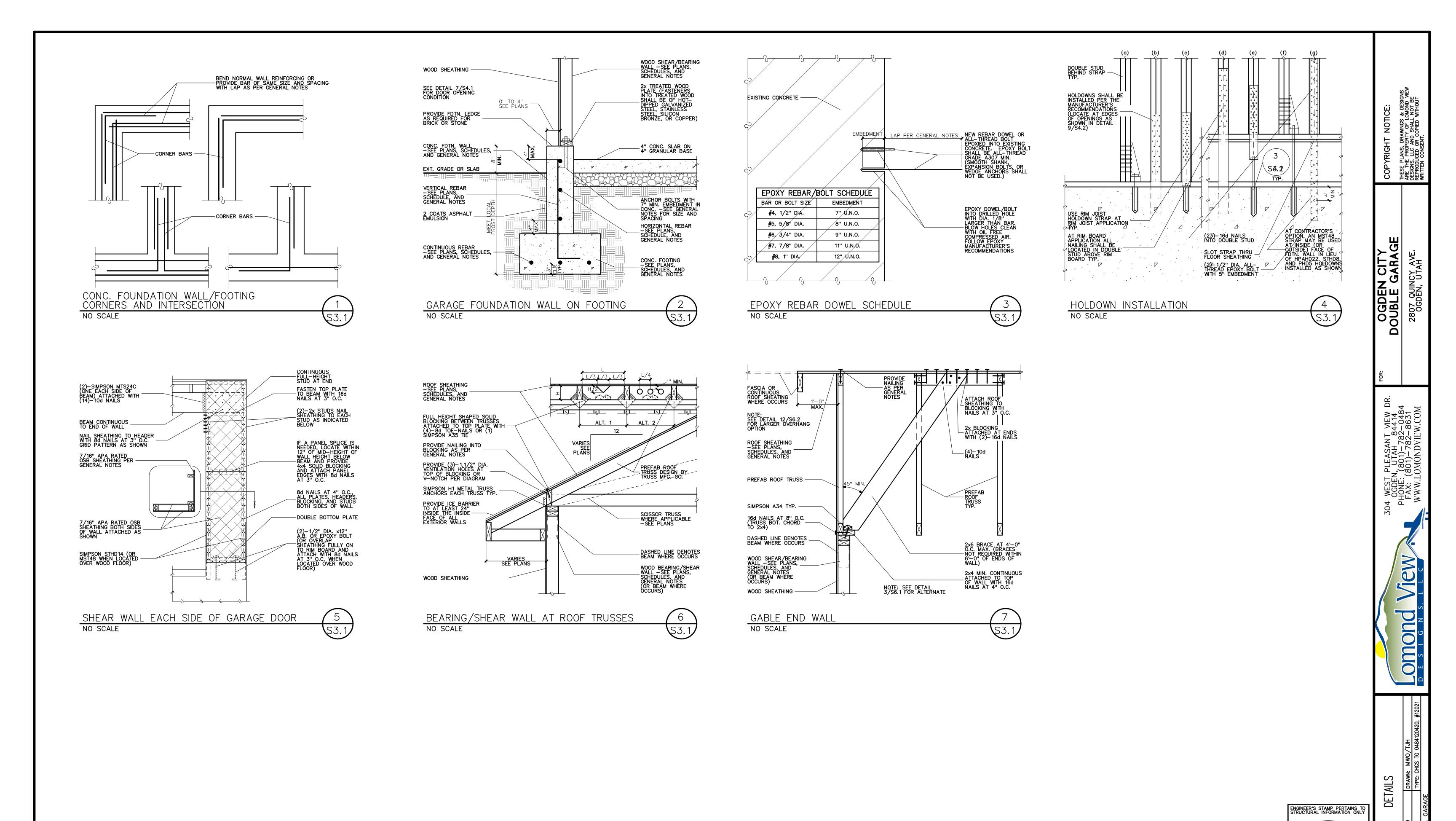


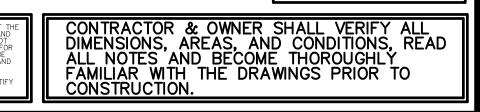
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CONTRACTOR & OWNER SHALL VERIFY ALL DIMENSIONS, AREAS, AND CONDITIONS, READ ALL NOTES AND BECOME THOROUGHLY FAMILIAR WITH THE DRAWINGS PRIOR TO CONSTRUCTION.





NO. 189469 THOMAS A. HALES

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