

Staff Report

PLANNING DIVISION

DEPARTMENT of COMMUNITY and NEIGHBORHOODS

To: Salt Lake City Planning Commission

From: Caitlyn Tubbs, Principal Planner, caitlyn.tubbs@slcgov.com or 801-535-7706

Date: January 12, 2022

Re: Detached Accessory Dwelling Unit – Conditional Use (PLNPCM2021-00969)

Detached Accessory Dwelling Unit - Conditional Use

PROPERTY ADDRESS: 529 E Sherman Avenue

PARCEL ID: 16-07-478-020-0000 MASTER PLAN: Central Community

ZONING DISTRICT: R-1-5,000 Residential

REQUEST: Angela Wright, the property owner, is requesting the approval of a conditional use permit to establish an accessory dwelling unit (ADU) in a detached garage in the rearyard area of her property at 529 East Sherman Avenue. The property is located in the R-1-5,000 zoning district where the establishment of Accessory Dwelling Units require conditional use approval from the Planning Commission.

CONDITIONAL USE RECOMMENDATION: Planning Staff finds the project generally meets the applicable standards of approval and no detrimental effects are expected, so staff is not recommending any conditions of approval. Staff therefore recommends the Planning Commission

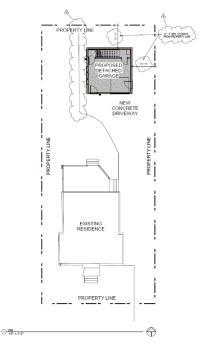
approve the Conditional Use for the ADU. Final approval of the conditions of approval, if any are adopted, shall be delegated to Planning Staff.

ATTACHMENTS:

- A. Vicinity Map
- B. Site Photos
- C. Application Materials
- D. Zoning Standards for ADUs
- E. Conditional Use Standards
- F. Public Process & Comments
- G. Department Review Comments

PROJECT DESCRIPTION:

The subject property has an existing detached garage in the rear yard. The homeowner wishes to demolish the existing detached garage and replace it with a new garage set farther back from the side and rear property lines. The existing garage is approximately



one to two feet from the eastern side and rear property lines and the proposed garage will be set back ten feet from both property lines.

The size of a detached ADU cannot exceed 50% of a home's footprint or can be up to a maximum of 650 square feet, whichever is less. The Salt Lake County Assessor's Office indicated the primary dwelling has a footprint of approximately 820 square feet; 50% of this area would be 410 square feet so this number applies because it is the smaller number. The proposed ADU is 405 square feet in size and complies with the maximum size standard.

The proposed detached building meets the setback requirements in the underlying R-1-5,000 zone and sits ten feet from the eastern side and rear property lines. The R-1-5,000 Zoning District also has a lot coverage limit of 40%; the subject property approximately 0.1427 acres in size (6,216 square feet) which would allow a maximum coverage area of approximately 2,486.4 square feet. The total covered area of the property, including the house and the new detached building is 1,225 square feet



and is well under the maximum lot coverage amount.

The proposed garage would be approximately nineteen feet (19') in height from grade to the peak of the roof. While ADU structures are typically limited to seventeen feet (17') in height or the height of the primary dwelling (whichever is less) section 21A.40.200(E)(3)(d) allows an exception where ADU structures with a pitched roof may match the height of the primary dwelling up to twenty four feet (24') in height provided the building is ten feet from any property line. The primary dwelling is approximately nineteen feet (19') in height which matches the height of the proposed ADU building. The ADU building has been setback ten feet in compliance with the requirement to gain additional building height.

The proposed building will have windows on the ground and upper floor; since the building will be set ten feet from the side and rear property lines obscured glazing is not required. The proposed entrance will be on the western side of the building and face into the subject property's rear yard. No balconies or decks are proposed as part of the new building. Additionally, the proposed building will be clad in siding similar in dimension and color to the siding found on the primary dwelling.

The proposed detached garage provides one off-street parking stall and additional parking is available along the driveway. Additionally, the proposed ADU is within a quarter-mile of a bus route which qualifies it for a waiver of the off-street parking requirement.

KEY ISSUES FOR ADU REQUEST:

Conditional uses are permitted uses which may have conditions applied to them if there are any anticipated negative impacts. Staff has reviewed this application alongside the detrimental impacts determination section of the ordinances (21a.54.080B, see Attachment E) and does not anticipate any adverse effects of the establishment of this ADU. The most common anticipated negative effects of ADUs are already addressed in the city's ordinances where standards such as parking accommodation, privacy/window locations, and compatible design mitigate these concerns. Staff has no recommended conditions of approval for this request.

PLANNING COMMISSION NEXT STEPS:

Approval of Conditional Use

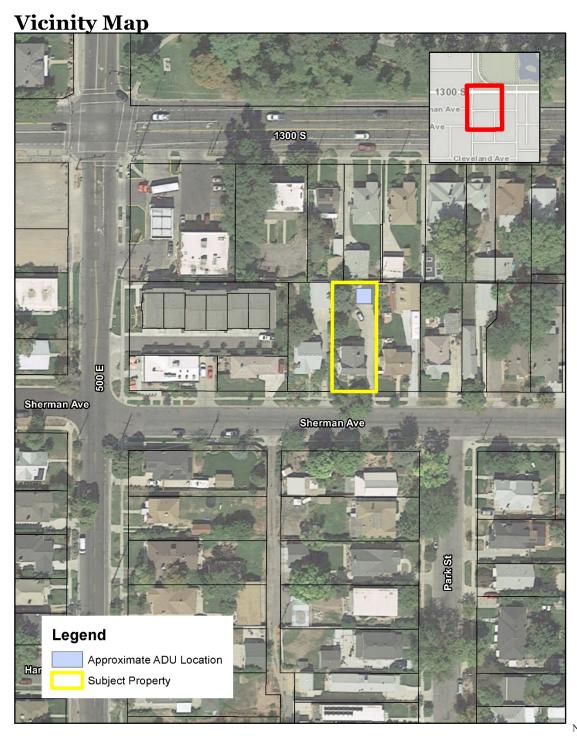
If the request is approved, the applicant will need to need to comply with the conditions of approval, if any, including those required by other City departments and any added by the Planning Commission. The applicant will be able to submit plans for building permits and certificates of occupancy for the buildings will only be issued once all the conditions of approval, if any are adopted, are met including the registration process requirements outlined in 21A.40.200.F of the zoning ordinance. All other standards and processes listed by the city's ordinances, including the ADU registration process and any applicable building permits, are still required.

Denial of Conditional Use

State and City code require that a Conditional Use be approved if reasonable conditions can be imposed on the use to mitigate any reasonably anticipated detrimental effects of the use. A conditional use can only be denied if the Planning Commission finds that reasonably anticipated detrimental effects cannot be mitigated with the imposition of reasonable conditions.

If the Planning requests are denied, the applicant would not be able to construct an ADU. The applicants could still utilize the detached garage structure; however, it could not be used as an accessory dwelling.

ATTACHMENT A – VICINITY MAP



Salt Lake City Planning Division 12/2/2021

ATTACHMENT B – SITE PHOTOS



 ${\it Figure 1: View \ of \ subject \ property \ from \ Sherman \ Avenue.}$



Figure 2: View of neighboring property to the west.



Figure 3: View of neighboring property to the east



Figure 4: View of Sherman Avenue, looking east.

ATTACHMENT C – APPLICATION MATERIALS



STEP PEAK DESIGN SERVICES LLC

Gas Line Drawing

PROJECT NAME

Wright Residence Gas Line Drawing Salt Lake City, Utah

SUBMITTED TO:

Rolland T. Lee

NOTE: These are Gas Line Schematics the design is illustrative in nature, site conditions will vary & the design may need to be altered to accommodate conditions.

Submitted by: Step Peak Design Services Jose Galvan Phone: (801)-232-8059

jose@steppeakdesignservices.com

6/10/2021

System Configuration: Angela Wright Garage Addition

General Information...

Project Name: Angela Wright Garage Addition

Fuel Gas Type: Natural Gas

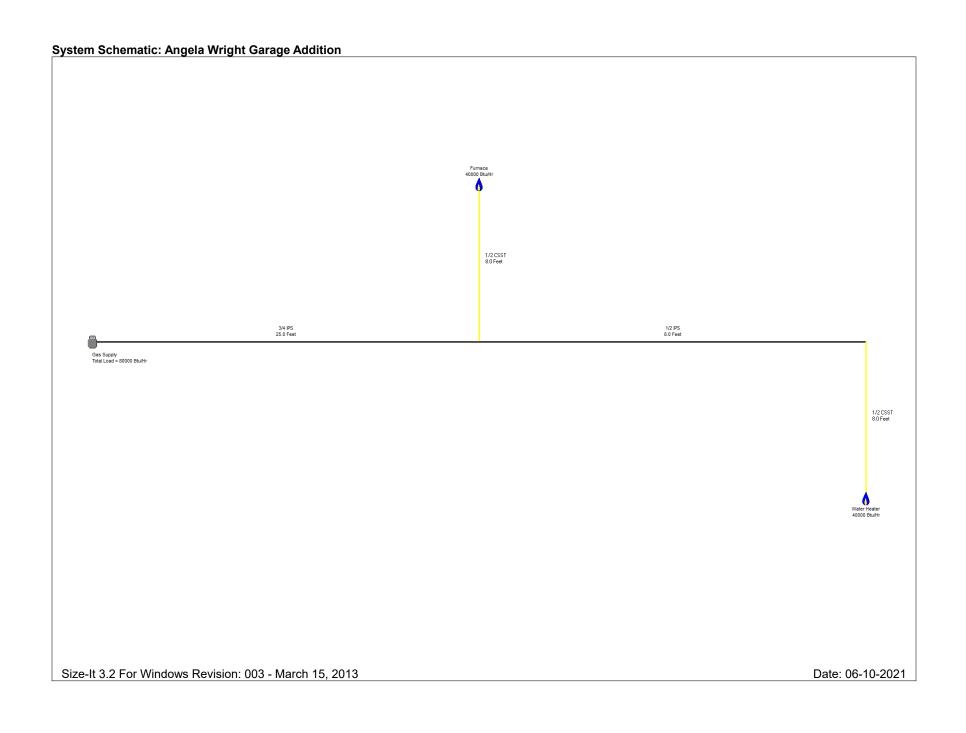
Supply Pressure Range: Low Pressure - Less Than Or Equal To .5 Psi System Style: Hybrid - Steel Trunk With CSST Appliance Runs Design Criteria: 0.5 In WC Overall Pressure Drop

Component List...

Component Name	Load, Cfh	Size, Inches	Length, Feet	Material-P/N
Trunk	80	3/4 IPS	25.0	IPS Schedule 40 Black Iron Pipe
Run To Furnace	40	1/2 CSST	8.0	Gastite CSST P/N-S93-8A4
Trunk	40	1/2 IPS	8.0	IPS Schedule 40 Black Iron Pipe
Run To Water Heater	40	1/2 CSST	8.0	Gastite CSST P/N-S93-8A4

Size-It 3.2 For Windows Revision: 003 - March 15, 2013

Date: 06-10-2021





STEP PEAK DESIGN SERVICES LLC

PROJECT NAME

Wright Residence Garage Addition Salt Lake City, Utah

SUBMITTED TO:

Rolland T. Lee

NOTE: These are Load Calculations. The duct design is illustrative in nature, site conditions will vary & the design may need to be altered to accommodate conditions.

Submitted by: Step Peak Design Services Jose Galvan Phone: (801)-232-8059

jose@steppeakdesignservices.com

6/10/2021



Project Angel Wright Detached Garage Addition

Energy Code: Utah Energy Conservation Code

Location: Salt Lake City, Utah

Construction Type: Single-family
Project Type: New Construction

Orientation: Bldg. faces 180 deg. from North

Conditioned Floor Area: **500 ft2** Glazing Area **4%**

Climate Zone: **5 (5765 HDD)**Permit Date: **June 10, 2021**

Permit Number:

Construction Site:

529 Sherman Avenue Salt Lake City, Utah 84105 Owner/Agent:

Angela Wright Detached Garage

Addition

Rolland T. Lee Architecural Design

529 Sherman Avenue Salt Lake City, Utah 84105 Designer/Contractor:

Step Peak Design Services Step Peak Design Services Herriman, Utah 84096

(801)-232-8059

jose@steppeakdesignservices.com

Compliance: Passes using performance alternative

Compliance: 6.5% Better Than Code

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Wall 1: Wood Frame, 16" o.c. Orientation: Back	320	19.0	0.0	0.060	19
Wall 2: Wood Frame, 16" o.c. Orientation: Left side	200	19.0	0.0	0.060	11
Window 1: 2 glazing, clr outr, air gas, wd frm mat, clr innr, 1/4" gap, 1/4" SHGC: 0.30 Orientation: Left side	14			0.320	5
Wall 3: Wood Frame, 16" o.c. Orientation: Front	160	19.0	0.0	0.060	9
Window 1: 2 glazing, clr outr, air gas, wd frm mat, clr innr, 1/4" gap, 1/4" SHGC: 0.30 Orientation: Front	14			0.320	5
Wall 4: Wood Frame, 16" o.c. Orientation: Right side	40	19.0	0.0	0.060	2
Wall 5: Wood Frame, 16" o.c. Orientation: Right side	160	19.0	0.0	0.060	8
Door 1: Solid Orientation: Right side	20			0.390	8
Window 1: 2 glazing, clr outr, air gas, wd frm mat, clr innr, $1/4$ " gap, $1/4$ " SHGC: 0.30 Orientation: Right side	14			0.320	5
Wall 6: Wood Frame, 16" o.c. Orientation: Right side	160	19.0	0.0	0.060	10

Project Title: Angel Wright Detached Garage Addition

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Addition.rck

Report date: 06/10/21

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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Floor 1: All-Wood Joist/Truss:Over Unconditioned Space	306	19.0	0.0	0.047	14
Floor 2: All-Wood Joist/Truss:Over Outside Air	14	30.0	0.0	0.033	0
Floor 3: Slab-On-Grade:Unheated Insulation depth: 6.0'	49		10.0	0.684	34
Ceiling 1: Flat Ceiling or Scissor Truss	396	38.0	0.0	0.030	12
Ceiling 2: Cathedral Ceiling	14	38.0	0.0	0.027	0

Mechanical Equipment

Description	Fuel type Efficiency
Electric Central Air	14 SEER
Forced Hot Air	95 AFUE

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the Utah Energy Conservation Code requirements in REScheck Version 4.7.1 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

Step Peak Design		
Name - Title	Signature	Date

Project Notes:

Job Number: 21-0172

21-0172

Project Title: Angel Wright Detached Garage Addition Report date: 06/10/21



Requirements: 100.0% were addressed directly in the REScheck software

Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception

is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.1, 103.2 [PR1] ¹	Construction drawings and documentation demonstrate energy code compliance for the building envelope.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
302.1, 403.6 [PR2] ²	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	Heating: Btu/hr Cooling: Btu/hr	Heating: Btu/hr Cooling: Btu/hr	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Report date: 06/10/21

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Addition.rck

Section # & Req.ID	Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1 [FO1] ¹	Slab edge insulation R-value.	R Unheated Heated	R Unheated Heated	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2, 402.2.9 [FO2] ¹	Slab edge insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
402.1.1 [FO3] ¹	Slab edge insulation depth/length.	ft	ft	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2.1 [FO11] ²	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
403.8 [FO12] ²	Snow- and ice-melting system controls installed.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.3.4	Door U-factor.	U	U	□Complies □Does Not	See the Envelope Assemblies table for values.
[FR1] ¹			 	□Not Observable □Not Applicable	
402.1.1, 402.3.1, 402.3.3,	Glazing U-factor (area-weighted average).	U	U	□Complies □Does Not	See the Envelope Assemblies table for values.
402.3.6, 402.5 [FR2] ¹				□Not Observable □Not Applicable	
303.1.3 [FR4] ¹	U-factors of fenestration products are determined in accordance			☐Complies ☐Does Not	Requirement will be met.
•	with the NFRC test procedure or taken from the default table.			□Not Observable □Not Applicable	
402.4.3 [FR20] ¹	Fenestration that is not site built is listed and labeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440			☐Complies ☐Does Not	Requirement will be met.
(2)	or has infiltration rates per NFRC 400 that do not exceed code limits.			□Not Observable □Not Applicable	
402.4.4 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish			□Complies □Does Not	Requirement will be met.
•	and labeled to indicate ≤2.0 cfm leakage at 75 Pa.			□Not Observable □Not Applicable	
405.2 [FR25] ¹	All ducts in unconditioned spaces or outside the building envelope are insulated to ≥R-6.	R	R	\square Complies \square Does Not	Requirement will be met.
•	are insulated to 2R-0.			□Not Observable □Not Applicable	
403.2.2 [FR13] ¹	All joints and seams of air ducts, air handlers, and filter boxes are			□Complies □Does Not	Requirement will be met.
•	sealed.			□Not Observable □Not Applicable	
403.3 [FR17] ²	HVAC piping conveying fluids above 105 °F or chilled fluids	R	R	\square Complies \square Does Not	Exception: Requirement is not applicable.
•	below 55 $^{\circ}$ F are insulated to \geq R-3.			□Not Observable □Not Applicable	
403.3.1 [FR24] ²	Protection of insulation on HVAC piping.			□Complies □Does Not	Requirement will be met.
				□Not Observable □Not Applicable	
403.4.2 [FR18] ²	Hot water pipes are insulated to ≥R-3.	R	R	□Complies □Does Not	Requirement will be met.
•				□Not Observable □Not Applicable	
403.5 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			□Complies □Does Not	Requirement will be met.
•	ilitares alla exilausts.			□Not Observable □Not Applicable	

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Addition.rck

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
303.1 [IN13] ²	All installed insulation is labeled or the installed R-values provided.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
402.1.1, 402.2.6 [IN1] ¹	Floor insulation R-value.	R Wood Steel	R Wood Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2, 402.2.7 [IN2] ¹	Floor insulation installed per manufacturer's instructions, and in substantial contact with the underside of the subfloor.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
402.1.1, 402.2.5, 402.2.6 [IN3] ¹	Wall insulation R-value. If this is a mass wall with at least ½ of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10).	R	R Wood Mass Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2 [IN4] ¹	Wall insulation is installed per manufacturer's instructions.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Addition.rck

Report date: 06/10/21

Section #	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
& Req.ID 402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1] ¹	Ceiling insulation R-value.	R Wood Steel	R Wood Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft².			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
402.2.3 [FI22] ²	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
403.2.2 [FI4] ¹	Duct tightness test result of <=10 cfm/100 ft2 across the system or <=7.5 cfm/100 ft2 without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection.	cfm/100 ft ²	cfm/100 ft ²	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
403.2.2.1 [FI24] ¹	Air handler leakage designated by manufacturer at <=2% of design air flow.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
403.6 [FI5] ¹	Heating and cooling equipment type and capacity as per plans.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
403.1.1 [FI9] ²	Programmable thermostats installed on forced air furnaces.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
403.1.2 [FI10] ²	Heat pump thermostat installed on heat pumps.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.
403.4.1 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
403.5.1 [FI25] ²	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
401.3 [FI7] ²	Compliance certificate posted.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
303.3 [FI18] ³	Manufacturer manuals for mechanical and water heating systems have been provided.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)



Insulation Rating	R-Value	
Above-Grade Wall	19.00	
Below-Grade Wall	0.00	
Floor	19.00	
Ceiling / Roof	38.00	
Ductwork (unconditioned spaces):		
Glass & Door Rating	U-Factor	SHGC
Window	0.32	0.30
Door	0.39	
Heating & Cooling Equipment	Efficiency	

Heating & Cooling Equipment	Efficiency
Electric Central Air	14 SEER
Forced Hot Air	95 AFUE
Water Heater:	

Name: Date:

Comments



Load Short Form

Entire House

Step Peak Design Services

Job: 21-0172 Date: Jun 10, 2021 Jose Galvan Plan: 21-0172

Herriman, Utah 84096 Phone: (801)-232-8059 Email: jose@steppeakdesignservices.com

Project Information

For: Angela Wright Detached Garage Addition, Rolland T. Lee Architecural Design 529 Sherman Avenue, Salt Lake City, Utah 84105

Design Information						
	Htg	Clg		Infiltration		
Outside db (°F)	9	95	Method		Simplified	
Inside db (°F)	72	75	Construction quality		Average	
Design TD (°F)	63	20	Fireplaces		0	
Daily range	-	Н	•			
Inside humidity (%)	30	50				
Moisture difference (gr/lb)	33	-26				

HEATING EQUIPMENT

COOLING EQUIPMENT

Make	York			Make	York	
Trade	LX Series			Trade	LX Series	
Model	TM9E040A10MP11			Cond	YCD18B23	S
AHRI ref	202293706			Coil	CF24AXA1	+ TXV
				AHRI ref	202293706	
Efficiency		95 AFUE		Efficiency		12.3 EER, 14 SEER
Heating inpu	ut	40000	Btuh	Sensible co	ooling	14705 Btuh
Heating out	put	37000	Btuh	Latent cool	ing	2595 Btuh
Temperature	e rise	55	°F	Total coolin	ng	17300 Btuh
Actual air flo	DW .	709	cfm	Actual air fl	ow	709 cfm
Air flow fact	or	0.052	cfm/Btuh	Air flow fac	tor	0.108 cfm/Btuh
Static press	ure	0.70	in H2O	Static press	sure	0.70 in H2O
Space thern	nostat			Load sensi	ble heat ratio	1.00

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Stairs 1	90	5069	892	263	96
Loft	120	3860	1735	200	188
Stairs 2	90	0	0	0	0
Bathroom	35	1730	498	90	54
Kitchen	151	2991	3433	155	371
Closet	i 14 ⁱ	0	0	0	0

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Entire House Other equip loads Equip. @ 1.00 RSM Latent cooling	500	13650 3706	6558 565 7124 0	709	709
TOTALS	500	17356	7124	709	709

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

Building Analysis

Entire House

30.0

Step Peak Design Services

Job: 21-0172 Date: Jun 10, 2021 Jose Galvan By: Plan: 21-0172

Average

Herriman, Utah 84096 Phone: (801)-232-8059 Email: jose@steppeakdesignservices.com

Project Information

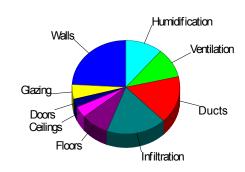
Angela Wright Detached Garage Addition, Rolland T. Lee Architecural Design For: 529 Sherman Avenue, Salt Lake City, Utah 84105

Design Conditions Heating Cooling Location: Indoor: Indoor temperature (°F) Salt Lake City IAP, UT, US 75 20 72 4226 ft 63 Elevation: Design TD (°F) 41°N 50 Latitude: Relative humidity (%) 30 Cooling Moisture difference (gr/lb) Heating 32.7 -26.1 **Outdoor:** Dry bulb (°F) 9 95 Infiltration: 30 (H) Daily range (°F) Method Simplified Wet bulb (°F) 63

Heating

7.5

Component	Btuh/ft²	Btuh	% of load
Walls	4.3	4183	24.1
Glazing	20.2	871	5.0
Doors	24.6	501	2.9
Ceilings	1.6	672	3.9
Floors	3.5	1454	8.4
Infiltration	3.6	3126	18.0
Ducts		2843	16.4
Piping		0	0
Humidification		1925	11.1
Ventilation		1781	10.3
Adjustments		0	
Total		17356	100.0

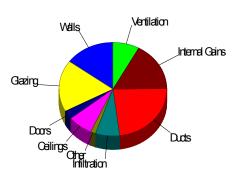


Construction quality

Fireplaces

Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.1	1064	14.9
Glazing	29.4	1272	17.9
Doors	10.3	211	3.0
Ceilings	1.3	533	7.5
Floors	0.3	109	1.5
Infiltration	0.6	515	7.2
Ducts		1654	23.2
Ventilation		565	7.9
Internal gains		1200	16.8
Blower		0	0
Adjustments		0	
Total		7124	100.0



Latent Cooling Load = 0 Btuh Overall U-value = 0.071 Btuh/ft2-°F

Wind speed (mph)

Data entries checked.

Component Constructions

Entire House

Step Peak Design Services

Job: 21-0172 Date: Jun 10, 2021 By: Jose Galvan Plan: 21-0172

Herriman, Utah 84096 Phone: (801)-232-8059 Email: jose@steppeakdesignservices.com

Project Information

Angela Wright Detached Garage Addition, Rolland T. Lee Architecural Design 529 Sherman Avenue, Salt Lake City, Utah 84105 For:

	Design Conditions								
Location: Salt Lake City IAP, UT, U Elevation: 4226 ft Latitude: 41°N Outdoor:	S Heating	Cooling	Indoor: Indoor temperature (°F) Design TD (°F) Relative humidity (%) Moisture difference (gr/lb)	Heating 72 63 30 32.7	Cooling 75 20 50 -26.1				
Drybulb (°F) Dailyrange (°F) Wetbulb (°F) Wind speed (mph)	9 - - 30.0	95 30 (H) 63 7.5	Infiltration: Method Construction quality Fireplaces	Simplified Average 0					

Construction descriptions	Or	Area	U-value Btuh/ft²-°F	Insul R ft²-°F/Btuh	Htg HTM Btuh/ft²	Loss (Clg HTM Btuh/ft²	Gain Btuh
Walls 12E-0sw: Frm wall, wd ext, 1/2" wood shth, r-19 cav ins, 1/2" gypsum	n	320	0.068	19.0	4.28	1371	1.18	379
board int fnsh, 2"x6" wood frm, 16" o.c. stud	n e	186	0.068	19.0	4.28	795	1.18	220
board int insti, 2 x6 wood inii, 16 o.c. stud	S	146	0.068	19.0	4.28	624	1.18	172
	w	125	0.068	19.0	4.28	536	1.18	148
	all	776	0.068	19.0	4.28	3326	1.18	919
12E-0sw: Frm wall, 5/8" gyp.bd ext, 1/2" wood shth, r-19 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud	W	40	0.068	19.0	4.28	171	1.18	47
Partitions 12E-0sw: Frm wall, 5/8" gyp.bd ext, 1/2" wood shth, r-19 cav ins, 1/2" gypsum board int fnsh, 2"x6" wood frm, 16" o.c. stud		160	0.068	19.0	4.28	685	0.61	98
Windows 2 glazing, clr outr, air gas, wd frm mat, clr innr, 1/4" gap, 1/4" thk: 2	e	14	0.320	0	20.2	290	34.6	499
glazing, cir outr, air gas, wd frm mat, cir innr, 1/4" gap, 1/4" thk; NFRC	s	14	0.320	0	20.2	290	19.1	274
rated (SHGC=0.30); 6.67 ft head ht	w	14	0.320	0	20.2	290	34.6	499
Taled (61766 0.00), 0.07 K Head III	all	43	0.320	0	20.2	871	29.4	1272
Doors 11D0: Door, wd sc type	w	20	0.390	0	24.6	501	10.3	211
Ceilings 16B-38ad: Attic ceiling, asphalt shingles roof mat, r-38 ceil ins, 1/2"		396	0.026	38.0	1.64	649	1.30	515
gypsum board int fnsh R-49 Asphalt Attic: Attic ceiling, asphalt shingles roof mat, r-49 ceil ins, 1/2" gypsum board int fnsh		14	0.027	49.0	1.68	23	1.33	18
Floors 19C-19cscp: Flr floor, frm flr, 6" thkns, carpet flr fnsh, r-2 ext ins, r-19		306	0.049	30.0	1.07	328	0.34	104
cav ins, tight crwl ovr, r-11 wall insul 20P-30c: Flr floor, frm flr, 12" thkns, carpet flr fnsh, r-30 cav ins, gar ovr		14	0.035	30.0	2.20	30	0.35	5
22B-10tpm: Bg floor, heavy dry or light damp soil, on grade depth, r-10 edge ins		49	0.355	10.0	22.4	1096	0	0

J1 Form - Worksheet A

Entire House

Step Peak Design Services

Job: 21-0172
Date: Jun 10, 2021
By: Jose Galvan
Plan: 21-0172

Herriman, Utah 84096 Phone: (801)-232-8059 Email: jose@steppeakdesignservices.com

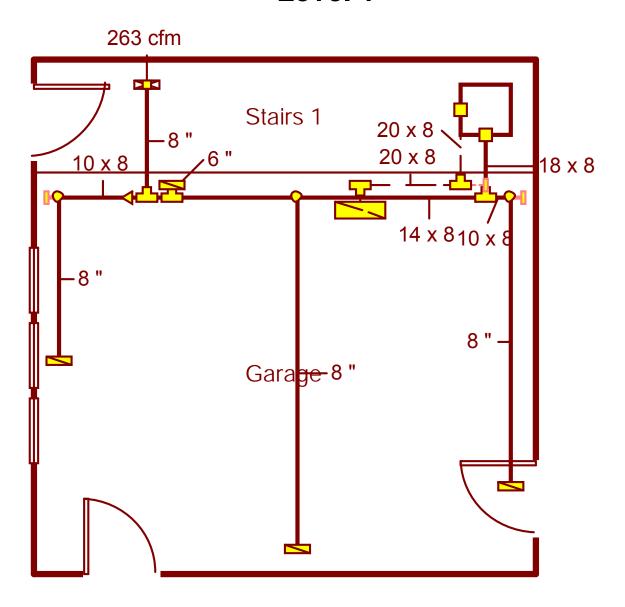
Supporting Detail					
Project Name: Angel Wright Detached Garage Addition Date: Jun 10, 2021					
Address:	Address: 529 Sherman Avenue, Salt Lake City, Utah 84105				
Phone:		Job ID:	21-0172		

Worksheet A Location and Design Conditions							
Weather Location: Salt Lake City IAP, UT, US	Elevation	า =	4226	Latitude =	41		
Indoor Conditions, Heating: DB = 72 °F RH = 30 % Indoor Conditions, Co	oling:	DB =	75	°F RH=	50 %		
Table 1 Conditions 99% DB = 9 °F 1% DB = 95 °F Grains Difference =	-26	gr/lb	Dail	y Range =	Н		
Design Temperature Differences	HTD =	63	°F	CTD =	20 °F		

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.



Level 1



Job #: 21-0172 Performed by Jose Galvan for:

Angela Wright Detached Garage Addition 529 Sherman Avenue Salt Lake City, Utah 84105

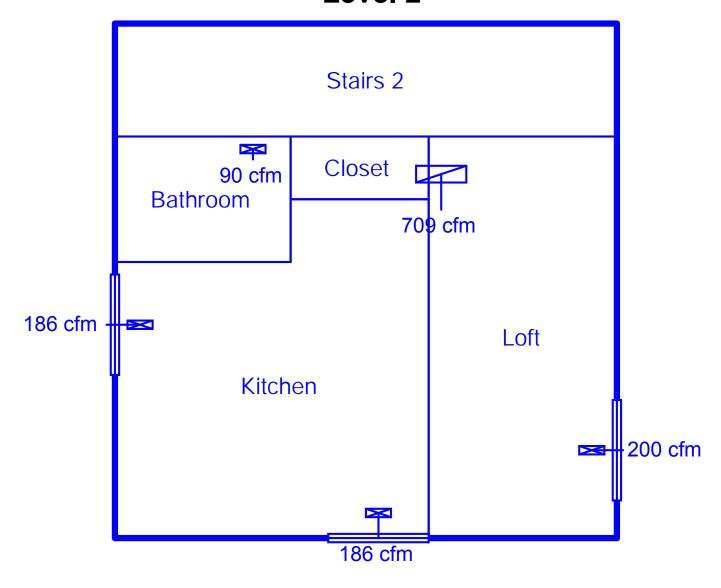
Step Peak Design Services

Herriman, Utah 84096 Phone: (801)-232-8059 jose@steppeakdesignservices.com Scale: 1:46

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Level 2



Job #: 21-0172 Performed by Jose Galvan for:

Angela Wright Detached Garage Addition 529 Sherman Avenue Salt Lake City, Utah 84105

Step Peak Design Services

Herriman, Utah 84096 Phone: (801)-232-8059 jose@steppeakdesignservices.com Scale: 1 : 46

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Duct System Summary

Entire House

Step Peak Design Services

Job: 21-0172 Date: Jun 10, 2021 Jose Galvan Plan: 21-0172

Herriman, Utah 84096 Phone: (801)-232-8059 Email: jose@steppeakdesignservices.com

Project Information

For: Angela Wright Detached Garage Addition, Rolland T. Lee Architecural Design 529 Sherman Avenue, Salt Lake City, Utah 84105

External static pressure Pressure losses Available static pressure Supply / return available pressure Lowest friction rate Actual air flow Total effective length (TEL)

Heating Cooling 0.70 in H2O 0.70 in H2O 0.37 in H2O 0.41 in H2O 0.33 in H2O 0.29 in H2O 0.186 / 0.144 in H2O 0.164 / 0.126 in H2O 0.088 in/100ft 0.078 in/100ft 709 cfm 709 cfm

374 ft

Supply Branch Detail Table

Name	1	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathroom Kitchen Kitchen-A	h c c	1730 1717 1717	90 78 78	54 186 186	0.161 0.078 0.082		0x 0	ShMt ShMt ShMt	15.5 26.0 24.0	100.0 185.0 175.0	st3 st3A st3
Loft Stairs 1	h h	1735 5069	200 263	188 96	0.096 0.143	8.0	0x 0	ShMt ShMt	15.0 20.5	155.0 110.0	st2 st3

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3 st3A st2 st1	Peak AVF Peak AVF Peak AVF Peak AVF	509 78 200 709	521 186 188 709	0.078 0.078 0.096 0.078	670 334 361 709	11.4 7.7 7.4 12.7	8 x 14 8 x 10 8 x 10 8 x 18	ShtMetI ShtMetI ShtMetI ShtMetI	st1 st3 st1

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x 0	709	709	163.0	0.078	638	12.7	8x 20		ShMt	rt1

Return Trunk Detail Table

Name	Trunk e Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt1	Peak AVF	709	709	0.078	638	12.7	8 x 20	ShtMetl	

Duct system multi orientation report

Entire House

Step Peak Design Services

Job: 21-0172 Date: Jun 10, 2021 By: Jose Galvan Plan: 21-0172

Herriman, Utah 84096 Phone: (801)-232-8059 Email: jose@steppeakdesignservices.com

Project Information

For: Angela Wright Detached Garage Addition, Rolland T. Lee Architecural Design 529 Sherman Avenue, Salt Lake City, Utah 84105

Group 1: (N, SE, SW, NW) Group 2: (NE, E, W) Group 3: (S)

Duct Name	(N)			(NE)			(E)			(SE)		
	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size
Supply Branches												
Bathroom	90 h	12x4	6									
Kitchen	186 c	12x4	8	192 c	12x4	8	196 c	12x4	8	184 c	12x4	8
Kitchen-A	186 c	12x4	8	192 c	12x4	8	196 c	12x4	8	184 c	12x4	8
Loft	200 h	12x4	8									
Stairs 1	263 h	12x4	8									
Supply Trunks												
st3	521 c		14x8	541 c		16x8	560 c		16x8	524 c		14x8
st3A	186 c		10x8	192 c		10x8	196 c		10x8	184 c		10x8
st2	200 h		10x8									
st1	709 c		18x8									
Return Branches												
rb1	709 c	24x8	20x8									
Return Trunks												
rt1	709 c		20x8									
Friction Rates												
Heating FR	0.088			0.088			0.088			0.088		
Cooling FR	0.078			0.078			0.078			0.078		

Project Information

Angela Wright Detached Garage Addition, Rolland T. Lee Architecural Design 529 Sherman Avenue, Salt Lake City, Utah 84105 For:

Duct Name	(S)			(SW)			(W)			(NW)		
	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size
Supply Branches												
Bathroom	90 h	12x4	6									
Kitchen	171 c	12x4	8	177 c	12x4	8	193 c	12x4	8	194 c	12x4	8
Kitchen-A	171 c	12x4	8	177 c	12x4	8	193 c	12x4	8	194 c	12x4	8
Loft	216 c	12x4	8	200 h	12x4	8	200 h	12x4	8	200 h	12x4	8
Stairs 1	263 h	12x4	8									
Supply Trunks												
st3	509 h		14x8	509 c		14x8	544 c		16x8	536 c		14x8
st3A	171 c		6x8	177 c		10x8	193 c		10x8	194 c		10x8
st2	216 c		10x8	200 h		10x8	200 h		10x8	200 h		10x8
st1	709 c		18x8									
Return Branches												
rb1	709 c	24x8	20x8									
Return Trunks												
rt1	709 c		20x8									
Friction Rates												
Heating FR	0.088			0.088			0.088			0.088		
Cooling FR	0.078			0.078			0.078			0.078		

Project Information

Angela Wright Detached Garage Addition, Rolland T. Lee Architecural Design 529 Sherman Avenue, Salt Lake City, Utah 84105 For:

Duct Name	Largest			Smalest		
	Reg CFM	Reg Size	Duct Size	Reg CFM	Reg Size	Duct Size
Supply Branches						
Bathroom	90 h	12x4	6	90 h	12x4	6
Kitchen	196 c	12x4	8	171 c	12x4	8
Kitchen-A	196 c	12x4	8	171 c	12x4	8
Loft	216 c	12x4	8	200 h	12x4	8
Stairs 1	263 h	12x4	8	263 h	12x4	8
Supply Trunks						
st3	560 c		16x8	509 h		14x8
st3A	196 c		10x8	171 c		6x8
st2	216 c		10x8	200 h		10x8
st1	709 c		18x8	709 c		18x8
Return Branches						
rb1	709 c	24x8	20x8	709 c	24x8	20x8
Return Trunks						
rt1	709 c		20x8	709 c		20x8
Friction Rates						
Heating FR	0.088			0.088		
Cooling FR	0.078			0.078		

Static Pressure and Friction Rate

Entire House

Step Peak Design Services

Job: 21-0172 Date: Jun 10, 2021 Jose Galvan Plan: 21-0172

Herriman, Utah 84096 Phone: (801)-232-8059 Email: jose@steppeakdesignservices.com

Project Information

For: Angela Wright Detached Garage Addition, Rolland T. Lee Architecural Design 529 Sherman Avenue, Salt Lake City, Utah 84105

	Available Static Pressure	
	Heating (in H2O)	Cooling (in H2O)
External static pressure Pressure losses	0.70	0.70
Coil	0.17	0.21
Heat exchanger	0	0
Supply diffusers	0.03	0.03
Return grilles	0.03	0.03
Filter	0.14	0.14
Humidifier	0	0
Balancing damper	0	0
Other device	0	0
Available static pressure	0.33	0.29

Total Effective Length

	Supply	Return
	(ft)	(ft)
Measured length of run-out	7	5
Measured length of trunk	20	3
Equivalent length of fittings	185 	155
Total length Total effective length	211	163 374

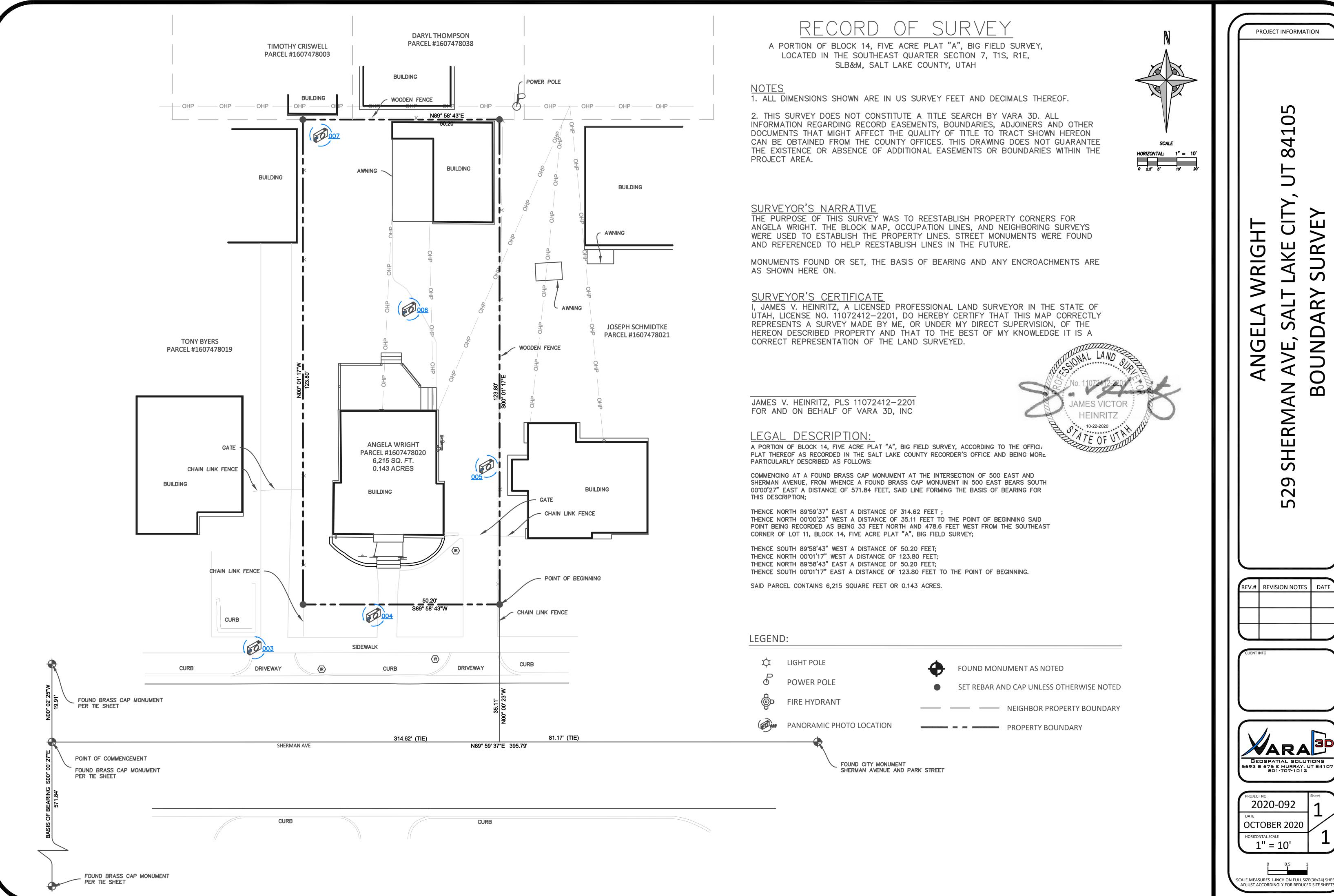
Friction Rate

	Heating		Cooling	
Supply Ducts	(in/100ft) 0.088	OK	(in/100ft) 0.078	OK
Return Ducts	0.088	OK	0.078	OK

Fitting Equivalent Length Details

Supply 4AD=60, 2I0=65, 9L=20, 12O1=10, 9L=20, 1D=10: TotalEL=185

Return 6M=20, 6C6=115, 10B=10, 5K=10: TotalEL=155



5693 S 675 E MURRAY, UT 8410 801-707-1012

SCALE MEASURES 1-INCH ON FULL SIZE(36x24) SHEETS



Salt Lake County Surveyor's Office

Reid J. Demman, PLS, Salt Lake County Surveyor Phil G. Lanouette, PE, Chief Deputy

2001 S State Street. N-1500, PO Box 144575, Salt Lake City, UT 84114-4575 Phone: 385-468-8240 - Fax: 385-468-8258 - Email: Surveyor@slco.org

RECORD OF SURVEY E-FILING FORM

*All fields are required - Save and attach to email.

Dat	:e:			Note – The siz	ze of files v	vill limit t	he quantity
Sur	veyor Name:			of ROS and/o			• •
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Ш_							10/12/12

ONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS AND MEASUREMENTS AT THE JOB PRIOR TO CONSTRUCTION. THESE PLANS AND DOCUMENTS ARE THE PROPERTY OF ROLLAND T. LEE, AND ANY REUSE OR FURTHER DISTRIBUTION THEREOF IN PART OR IN WHOLE

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ANGELA WRIGHT DETACHED GARAGE ADDITION

529 Sherman Ave, Salt Lake City, UT 84105 CONSTRUCTION DOCUMENTS





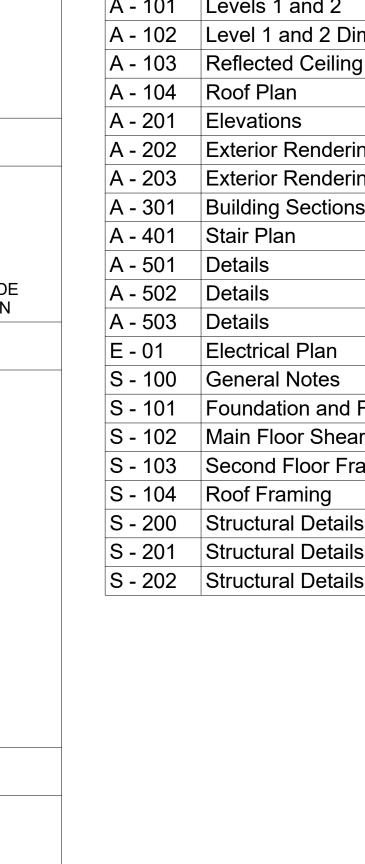
	APPLICABLE CODES
2015	INTERNATIONAL RESIDENTIAL CODE
2018	INTERNATIOAL PLUMBING CODE
2018	INTERNATIONAL MECHANICAL CODE
2018	INTERNATIONAL FUEL GAS CODE
2017	NATIONAL ELECTRICAL CODE
2018	INTERNATIONAL FIRE CODE
2015	INTERNATIONAL ENERGY CONSERVATION CODE
1997	UNIFORM CODE FOR BUILDING CONSERVATION

CODE SUMMARY

BEARING WALL INTERIOR:	0	
NONBEARING WALL:	0	
FLOOR/CEILING:	0	
ROOF/CEILING:	0	
OCCUPANCY TYPE:	R-3	
CONSTRUCTION TYPE:	VB	
MAXIMUM NO. STORIES:	2	
MAXIMUM HEIGHT:	25'	
ALLOWABLE AREA:		
SPRINKLED:	NO	
RATING:		
STRUCTURAL FRAME:	0	
BEARING WALL EXTERIOR:	0	

	BUILDING SUM
NO STORIES:	2
MAXIMUM HEIGHT	19'-2"
LEVEL1 LEVEL 2	405 SF 344 SF
SNOW LOAD WIND LOAD	30#/S FT 90#/SQ F

INDEX C - 100 Cover Sheet Project Notes A - 100 Site Plan Levels 1 and 2 Level 1 and 2 Dimension Plans Reflected Ceiling Plan Roof Plan Elevations A - 202 Exterior Renderings A - 203 Exterior Renderings **Building Sections** Stair Plan A - 501 Details A - 502 Details Details A - 503 Electrical Plan S - 100 General Notes S - 101 Foundation and Footing Main Floor Shear Wall Second Floor Framing and Shear Walls S - 104 Roof Framing Structural Details Structural Details







Rolland T. Lee Residential Design

Contact Information: Phone: 801-710-4500 Email: rollandtlee555@yahoo.com rollandtlee5335@gmail.com

> 629 N. Main Street **ALPINE**, 84004

CONSULTANTS

Anglea Wright Detached Garage Addition

529 Sherman Ave, Salt Lake City, UT 84105

DATE	Ξ: Jι	une 16, 2021
REVISIONS		
MARK	DATE	DESCRIPTION
1	8/7/21	ADJUSTMENT TO SETBACK
	1	1

PROJECT NO: MODEL FILE: DRAWN BY: BG COPYRIGHT

SHEET TITLE

Cover Sheet

C - 100

- 1) All work shall conform to the minimum standards of the International Building Code, any other regulating agencies which have authority over any portion of the work, and the codes and standards listed in these notes and specifications. All specifications noted shall be the latest approved revision or edition. The General Contractor shall review and approve all shop drawings prior to submitting them to the Designer or Engineer. A reviewed copy of all shop drawings shall be kept at the construction site for reference. The shop drawing review shall not relieve the General Contractor of any responsibility for completion of the project according to the contract documents.
- 2) Structural drawings and specifications represent the finished structure, not the method of construction. The General Contractor shall be responsible for all measures necessary to protect the structure during construction. These measures include, but are not limited to bracing, shoring, etc. Shoring & bracing shall remain in place until all permanent members are in place and connections complete. Observation visits to the site by the Engineer or his representative shall not include inspection of these items.
- 3) Construction materials shall be spread out if placed on framed floors or roof. Loads shall not exceed strengths within 28 days after placement (UNO): the design live load per sq. ft. Provide adequate shoring or bracing where structure has not attained design strength.
- 4) It shall be the responsibility of the General Contractor to coordinate with all trades, & all items that are to be integrated into the structural system. The civil, structural, mechanical, plumbing, and electrical drawings are supplementary to the architectural drawings, it shall be the responsibility of the contractor 5) Maximum concrete slump shall not exceed four inches to check with the architectural drawings before proceeding withinstallation of civil, structural, mechanical, plumbing, and electrical work. should there be any discrepancies between the architect's and the consulting engineer's drawings and specifications that would cause a conflect. It shall be corrected by the contractor at his expense and at no additional expense to the owner or architect. It is the responsibility of the contractor to examine all conditions prior to submitting bids or commencing with construction. Discrepancies in the drawings or between the drawings and actual field conditions shall be reported to the architect and to the owner.
- 5) See Architectural drawings for the following: (U.N.O.)
 - -Size and location of door, window, floor, and roof openings.
 - -Size and location of all interior and exterior non-bearing partitions
 - -Size and location of all curbs, drains, depressed areas, slopes, changes in level, grooves, chamfers, inserts, etc.
 - -Dimensions not shown on structural drawings.
- See Mechanical and Electrical drawings for the following (U.N.O.)
- -Pipe runs, sleeves, trenches, hangers, wall and slabs, openings, etc.
- -Electrical conduits, boxes, and outlets in walls and slabs.
- Concrete insert requirements for mechanical and electrical. -Size and location of machine or equipment bases, anchor bolt requirements, etc.
- 7) Openings larger than 6" shall not be placed in slabs, decks, walls, etc., unless specifically detailed on the structural drawings. Notify the Structural Engineer when drawing by others who above conditions located in structural members.
- 8) The engineer shall be notified forty-eight hours in advance prior to any of the following:
 - Placing any concrete.

-Floor and roof finishes.

- Closing any forms. Grouting any masonry.
- Completing the nailing of any sheathed wall or deck.
- -Completing the welding of steel decking.
- 9) Observation visits by the Engineer or his representative shall neither be construed as inspection nor approval of construction.
- 10) All symbols and abbreviations used on the plans are considered to be construction standards, if the contractor has questions regarding abbreviations of thier exact meaning, the architectect shall be notified for clarification.
- 11) Details marked shall apply in all cases unless specifically indicated otherwise.
- 12) All rubbish and debris resulting from demolition and/or new work shall be recycled and/as disposed of off-site and shall not be allowed to accumulate.
- 13) Offset studs where required so that finish wall surface will be flush. If structural panels are required on a wall plane, the entire wall plane shall be furred or finished flush.
- 14) Install metal corner beads at all exposed wallboard edges. Install casing beads wherever wallboads, plaster, ect. abuts a dissimilar finish matterial and provide sealant as required.
- 15) Contractor shall provide and install all stiffeners, bracing, back-up plates, and supporting brackets required for the installation of all casework, stair railing, toilet accessories, partitions, and of all mounted or suspended mechanical, electrical, or misc. equipment.
- 16) Door sizes shown on plan are opening sizes. allowance for thresolds, ect., shall be taken off the doors. Doors and frames shall be reinforced, where required for closures, stops and hardware.
- 17) All doors shall be provided with a seal, astral, or baffle at the head and sill to prrevent air leakage
- 18) All construction shall be preformed in accordance with the state construction safety regulations.
- 19) All gypsum wall board required by IRC R702.3
- 20) Pools, spas, wall fences, patio covers, retaining walls, and other freestanding structures require separate review and permits.
- 21) All "or equal" substitutions must be submitted to, and approved by the city building official prior to installation of the time.
- 22) Developer/contractor/ owner resonsible for the verification of existing curb location from the proper
- 23) Inspection required for Stucco Installation.
- 24) A permanent certificate shall be posted on or in the electrical distribution panel listing the predominant R-values of insulation installed in or on ceiling/roof, walls, foundation (slab, basement wall. and/or floor) and ducts outside the conditioned spaces; U-factors of windows and the solar heat gain coefficient of windows. The type and efficiency of heating, cooling and service water heating equipment shall also be listed. Per IRC N1101.9
- 25) Fire block stud spaces at soffits, floor and ceiling joist lines, at 10' vertically and horizontally, and at any other locations not specifically mentioned which could afford passage for flames, Per IRC R302.11
- 26) All plumbing installations shall comply with 2015 IRC
- 27) All mechanical installations shall comply with 2015 IRC & IFGC

CONCRETE:

- 1) All phases of work pertaining to the concrete construction shall conform to the 'Building Code Requirements For Reinforced Concrete' (ACI 318) and the 'Specifications for Structural Concrete For Buildings' (ACI 301) latest approved editions, with modifications as noted in the drawings or specifications.
- 2) Concrete mixes shall be designed by a qualified testing laboratory and approved by the Structural Engineer. All concrete in contact with the earth shall contain Type I Portland cement unless noted otherwise (U.N.O.). All concrete shall be air entrained by 6%
- Calcium chloride shall not be used.
- 4) Concrete shall have the following minimum compressive

Footings	3,000 psi
Foundations	4,000 psi
Interior Flatwork	4,000 psi
All Exterior Concrete	4,000 psi

- All concrete shall be thoroughly cured according to ACI recommendations. Follow ACI 306R "Cold Weather Concreting" and ACI 305 "Hot Weather Concreting" for all concrete and masonry work when required by current weather conditions.
- 7) Conduits and pipes embedded in concrete shall conform to the requirements in Section 1906.3 of Volume, II, Uniform Building
- 8) No aluminum or product containing aluminum or any metal injurious to concrete shall be embedded in concrete.
- 9) Interior concrete slabs-on-grade shall be a minimum of 4 inches in thickness UNO, with sawn or preformed joints at maximum 20 foot dimensions each way. Exterior concrete slabs-on-grade shall have construction joints at not more than 10 to 12 feet on center each way. Sawn joints shall be 1/4 slab thickness in depth and shall be cut as soon as surface allows and not more than 12 hours after concrete placement. Construction joints shall be made and located as to least impair the strength of the structure and shall be approved by the Architect/Engineer. Provide 2" x 4" keyway in all vertical and horizontal joints. All reinforcing bars shall be continuous through joints (UNO).
- 10) Clear coverage of concrete over outer reinforcement bars shall be as follows: (UNO)
- -For concrete placed directly against earth, 3" cover -For concrete surfaces exposed to weather, 1 1/2" cover. -For concrete surfaces exposed to ground after removal of
- forms, 2" cover -For concrete surfaces exposed to ground or weather: slabs and walls, 3/4" cover; joists or waffle beams, 1" cover; beams, piers, and columns, 1 1/2"
- 11) Where concrete girths, beams, or walls are continuous around a corner, add corner bars to lap 40 bar diameters from each direction. Reinforcing bars in the interior faces shall extend to within 2" of the outer face and shall terminate in a standard hook or bend.
- 12) Reinforce all concrete walls as follows: (U.N.O.)

Thickness	Horiz. Reinf.	Vert. Reinf.
6" wall	#4 at 16" o.c.	#4 at 18" o.c.
8" wall	#5 at 15" o.c.	#4 at 18" o.c.
10" wall	#5 at 12" o.c.	#4 at 16" o.c.
12" wall	#4 at 16" o.c e.f.	#4 at 18" o.c e.f.
14" wall	#5 at 18" o.c e.f.	#4 at 18" o.c e.f.

- 13) Place vertical steel in center of wall except 12 in. and larger, then place one curtain of steel at each wall face (e.f.)
- Reinforcing around openings in concrete walls, unless otherwise noted and in addition to the regular wall reinforcement, to be at least one #5 horizontal bar for each 5" of wall thickness or fraction thereof with a minimum of (2) #5 bar placed 2" above the opening. The minimum depth of wall (in inches) over the opening shall be 1/2 times the span of the opening (in feet) or 12", whichever is greater. At the sides and across the bottom of openings, add two #5 bars that extend 24" beyond the corners of the opening.
- Bars shall never be smaller than scheduled wall reinforcing. Reinforcing dowels from the footings shall be the same size and spacing as the vertical reinforcement in the wall above. Run dowels 40 bar diameters into wall and same into footings. Position dowels before placing concrete.
- 16) Around openings in concrete slabs, unless otherwise scheduled, add reinforcing equivalent to bars cut by opening. The bars parallel to the main reinforcement shall run the full length of the span. The bars parallel to the temperature steel shall run 40 bar diameters each way beyond the opening.
- 17) Provide expansion joints in curb and gutter at 40' on center and at each end of a radiused curb with contraction joints at 10' on
- 18) See civil plans for ground elevations, pad elevations, corner elevations, and natural grade.
- 19) See soils report as prepared by engineer for additional req's during construction

WOOD CONSTRUCTION:

- 1) All phases of work pertaining to wood framing or wood construction shall conform to the requirements of the 2015 IBC, "INTERNATIONAL BUILDING CODE".
- 2) All wood beams, joists and columns shall be #2 Douglas Fir (d.f.) grade lumber or better (U.N.O.) Micro-lam beams shall have a minimum allowable bending stress of 2,600 psi.
- 3) All glue laminated timber members shall have the following minimum stress grade lumber:
 - Bending = 2400 psi
 - 2. Tension = 1200 psi
 - Shear = 190 psi 4. Compression parallel to grain = 1650 psi
- Glue laminated structural members shall conform to the U.S. Department of Commerce Commercial Standard PS-56 and "AMERICAN INSTITUTE OF TIMBER CONSTRUCTION".
- 5) All structural plywood shall be Structural I or Structural II
- 6) All plates or other lumber in contact with concrete or within 6' of earth shall be Foundation redwood all marked or branded by the Redwood Inspection Service or pressure treated for moisture
- 7) Floor joists shall have all blocking, bracing, bridging, and etc. as recommended by the IBC and the manufacturer.
- 8) Horizontal edges of wall sheathing shall be blocked with 2" nominal blocking. Edges of floor and roof sheathing shall be blocked and nailed as indicated on drawings.
- Trusses and/or web joists shall have all blocking, bracing, bridging, and etc. as recommended by the manufacturer.
- Walls shall run continuous between horizontal support points, unless adequate approved bracing is provided.
- 11) Nails or other approved sheathing connectors shall be driven flush but shall not break the surface of the sheathing.
- REQUIRED MINIMUM NAILING SCHEDULE: (see IBC Table No. 2304.9.1)
- toenail 4-8d or end nail. Stud to plates 2-16d toenail 5-8d nails or 1-A35 Roof blocking. Double top plates. ..face nail 16" o.c. staggered
- Double top plates Lap Splice.....face nail 8-16d nails ..face nail 16d @ 24" o.c. Double studs... Corner stud and angles... ..16d @ 24" o.c. toenail 16d @ 6" o.c. Rim joist to sill.. ..2-10d nails Joist to sill or girders... Double sole plates together......face nail 16d @ 8" o.c. Bridging to joist. ..2-8d toenailed at each end

Plywood to roof joists, trusses or studs - see nailing schedule

12) Fire and drafts stops shall be provided throughout as required per IRC R502.12

FOUNDATIONS:

- Footings are designed based on a soil bearing capacity of
- The contractor shall provide for the design and installation of all cribbing, sheathing, and shoring required to safely and adequately retain any excavations.
- Footings shall be placed on undisturbed soil or structural fill. Excavations for footings are to be approved by the Geotechnical Engineer prior to placement of concrete or reinforcing. The Contractor shall give the Geotechnical Engineer 48 hrs notice for site observations. The Geotechnical Engineer shall submit letter of compliance to the Owner and the Structural Engineer. All retaining walls, building walls, pits, etc. must have attained their design strength and/or support prior to backfilling. Exception - if bracing is to be used to support walls and etc. for early backfilling, contractor is responsible for design, permits and installation of such bracing.
- 4) Excessive wetting or drying of the foundation excavation and the floor slab areas should be avoided during construction.
- 5) All fill supporting concrete slabs, footings, or etc. shall be moistened and compacted to at least 95% of the maximum dry density as determined by ASTM D-1557 (Modified Proctor). All other fill shall be compacted to a minimum relative compaction of ninety (90) percent of maximum dry density. Compaction testing shall be performed by an approved testing agency and the results submitted to the Structural Engineer. Sufficient field density tests shall be performed to certify building pads as conforming to the specifications.
- 6) Rebar inspections for foundation walls over 8' high, forms are not to be installed on one side until after the rebar has been inspected and approved.

ARCHITECTURAL SPECIFICATIONS & NOTES

GENERAL NOTES:

DO NOT SCALE THE WORKING DRAWINGS!

typical details, & specifications.

- 1) The contractor shall verify all dimensions & site conditions prior to starting construction. Contractor shall verify verify sizes and locations of all mechanical and electrical pads and bases as well as power or water and drain installations with equipment manifacturers before proceeding with work, changes to accommodate field conditions or substitutions shall be made without additional charge to owner. During construction, the contractor shall field verify all dimensions prior to fabrication or construction in any area. Inouye Design shall be notified of any discrepancies or inconsistencies. All omissions or conflict between the various elements of the working drawings &/or specifications shall be brought to the attention of Inouye Design &/or the structural engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirements as directed by Inouye Design & the engineer without any additional cost to the Owner.
- 2) The typical details shall be used wherever applicable unless otherwise noted on the drawings. Notes and details on drawings shall take precedence over general notes,
- 3) The contractor shall investigate the site during clearing, excavation & other earth work operations for filled excavations, buried structures or unnatural soil conditions. If any of these conditions are found, Inouye Design & the geotechnical engineer shall be notified immediately.
- 4) All construction work shall conform to the minimum standards of locally approved building codes & regulations.
- 5) Contractor shall be responsible for safety & protection & all rubbish and debris resulting from demolition an/or new work shall be recycled and/or disposed of off-site and shall not be allowed to accumulate.
- 6) Observation visits to the site by Inouye Design shall neither be construed as inspection nor approval of construction.
- 7) All fill and back fill shall be compacted to a minimum of 95% of maximum relative density for building construction and 90% for general site work.
- 8) Grading shall allow for positive drainage (2 percent minimum) away from the building, other footings & foundations, drives, & sidewalks. All downspouts shall drain onto 3 foot long splashblocks sloping away from foundations or into approved storm drain system.
- 9) All bearing earth to be undisturbed earth or compacted fill. The area on which the fill is placed must be frost-free. The fill shall then be placed in layers not to exceed 8 inches in depth & compacted. All fill & backfill shall be compacted to a minimum of 95% of maximum relative density as per ASTM D depth & compacted. All fill & backfill shall be compacted 1557-78 at optimum moisture.
- 10) The structure is not stable until all diaphragms, shear walls & associated connections have been made. It is the responsibility of the contractor to design & install all required temporary bracing and shoring. Do not backfill walls until floor at top of walls is in place or adequate temporary bracing is provided.
- 11) All symbols and abbreviations used on the plans are considered to be construction standards. if the contractor has questions regarding abbreviations of thier exact meaning, the architectect shall be notified for clarification.
- 12) Minimum headroom clearance at stairs shall be 6'-8" measured vertically from a plane parallel and tangent to the tread nosing to the soffit above at all points.
- 13) Provide tempered glass as required by IRC code and by other applicable codes.
- 14) Mechanical ventilation for toilet compartments, bathrooms, and laundry rooms shall be capable of providing 5 air changes per hour per IRC P3201.7
- 15) Where garage doors with springs occur, the following shall apply: Springs shall be permanently identified, and indicate the maximum recommended stretch. Both springs and containment devices shall bear information stating that they have manufactured in accordance with requirements of the State department of housing and community development.
- 16) Showers shall be finished to a min. of 72" above drain with surface materials not adversely affected by moisture per IRC P2709. See plans for actual plans.
- 17) Lighting fixtures in closets are to be a minimum of 18" from shelves.
- 18) All water heaters shall be provided with seismic straps per IRC P2801.8
- Pools, spas, wall fences, patio covers, retaining walls, and other freestanding structures require separate review and permits.
- 20) All "or equal" substitutions must be submitted to, and approved by the city building official prior to installation of the time.
- 21) Note that all insulation materials shall have a flame-spread rating not to exceed 25 and a smoke density not to exceed 450. IRC R320.2
- 22) Provide anti-scalding valves at showers and tubs/showers.
- 23) Developer / Contractor / owner responsible for the verification of existing curb location from property line.

WOOD:

- 1) All wood beams, joists, and columns shall be #2 Douglas Fir (d.f.) grade lumber or better (U.N.O.)
- 2) Truss loads shall be as indicated of drawings &/or as shown in structural engineering calculations. Trusses shall be designed for a maximum total load deflection of 1/240 & a maximum live load deflection of 1/360.
- 3) All truss members shall be #2 Douglas Fir or better.
- Provide panel joints at all bearing walls and point loads.
- 5) No joint shall have more than 1/16" average gap between bearing surfaces. All lumber at plates shall be a complete section with no knots or wanes.
- 6) All trusses are to be engineered by the truss fabricator. Shop drawings are to be submitted to the structural engineer for each truss type. All trusses shall be designed by a registered professional engineer & the Shop drawings must be stamped by the engineer.
- 7) Truss shop drawings shall include the following:
- A. ICC & C&R 9 certification indicating the allowable plate loads. B. Duration factors or stress reduction factors used in the design of the lumber and plates.
- D. Truss configuration showing lumber species and grades used

C. Top and bottom chord design loads in psf.

- together with plate size, gauge and location. E. Engineer's stamp and signature.
- F. Name and trademark of plate manufacturer, the truss fabricator, and the project name and address.
- G. Computed mid-span deflection for total load and live load. H. Forces in each member and indication of whether the member is in tension or compression.
- No wood shall be nearer than 8" to earth unless separated by concrete at least 3" in thickness with an impervious membrane installed between the earth and the concrete. This includes decks and siding. Per IRC

CONCRETE & REINFORCING:

- Before concrete is poured, check with all trades to insure proper placement of all openings, sleeves, curbs, conduits, bolts, inserts, etc. relating to work.
- 2) All reinforcement bars shall be securely anchored to the forms. The minimum spacing of reinforcing bars from surface shall be as
- A. Poured against the earth 3 inches B. Walls - 2 inches
- C. Beams and Columns 1-1/2 inches D. Slabs - 1-1/2 inches

spacing as horizontal wall reinforcing.

operations are maintained.

- All exposed to view concrete shall be stoned smooth while green, or as directed by Inouye Design. No grout plaster shall be permitted.
- 4) Hardrock aggregates shall conform to ASTM C-33. Their maximum size shall be 3/4" except 1-1/2" may be used for footings.
- 5) All dowels shall have at least 30 bar diameter embedment. Provide corner bars at II intersecting corners. Use same size bar &
- 6) Formwork not supporting weight of concrete, such as sides of beams, walls columns, & similar parts of the work, may be removed after cumulatively curing at not less than 50 degrees F for 24 hours after placing concrete provided concrete is sufficiently hard to not be damaged by form removal operation, & provided curing & protection
- Formwork supporting weight of concrete, such as beam soffits, joints, slabs & other structural elements, may not be removed in less than 14 days or until concrete has attained 75% of its design minimum compressive strength at 28 days.
- Support form facing materials with structural members spaced sufficiently close to prevent deflection. Fit forms placed in successive units for continuous surfaces to be accurately aligned free from irregularities & within allowable tolerances.
- All concrete shall be properly vibrated in place using internal vibrating rods.
- 8) Protect freshly placed concrete from premature drying & excessive temperature as per ACI 318 & maintain without drying at a relatively constant temperature for a period of time necessary for hydration of cement & proper hardening.
- 9) Cold weather curing & protection requirements for concrete shall conform to the requirements of 2015 IRC section R402.2. When depositing concrete at freezing temperature or below, the concrete mix shall have a temperature of at least 50 F but not more than 80 F. The concrete shall be maintained at a temperature of not less than 50 F & in a moist condition for not less than 7 days after placing or as directed by the structural engineer. The use of chemicals or additives to prevent freezing will not be permitted.

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Anglea Wright Detached Garage Addition

529 Sherman Ave, Salt Lake City, UT 84105

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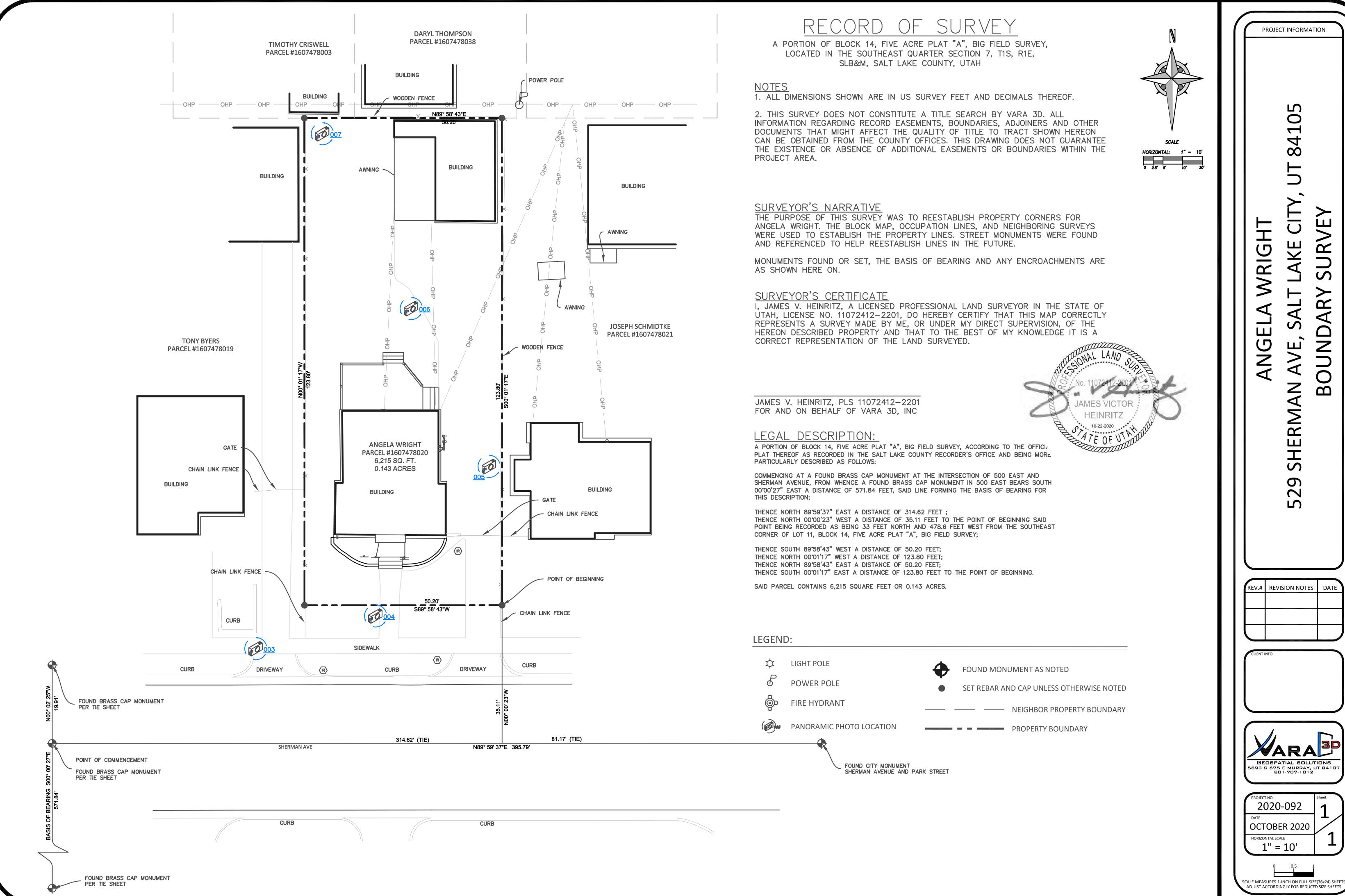
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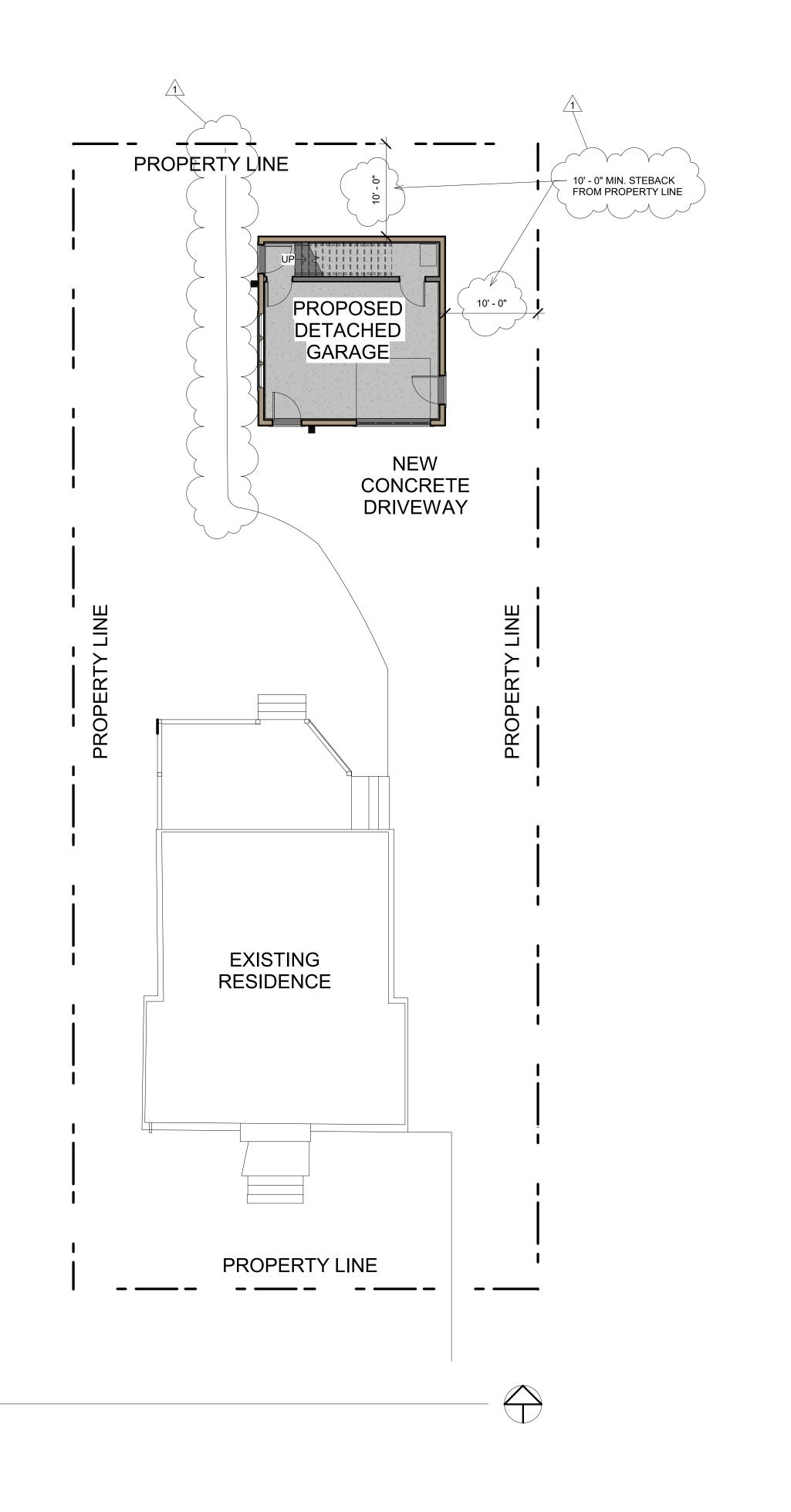
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Project Notes

C - 101





- FINISH GRADE & ELEVATIONS TO SLOPE AWAY FROM GARAGE @ MIN. 6" (5%) FOR THE FIRST 10'.
 ALL EXISTING GRADES WILL BE REWORKED DURING CONSTRUCTION TO COMPLY WITH THE 5% GRADE AWAY FROM GARAGE.
 ALL WOOD ABOVE GROUND SURFACE 6" MIN.

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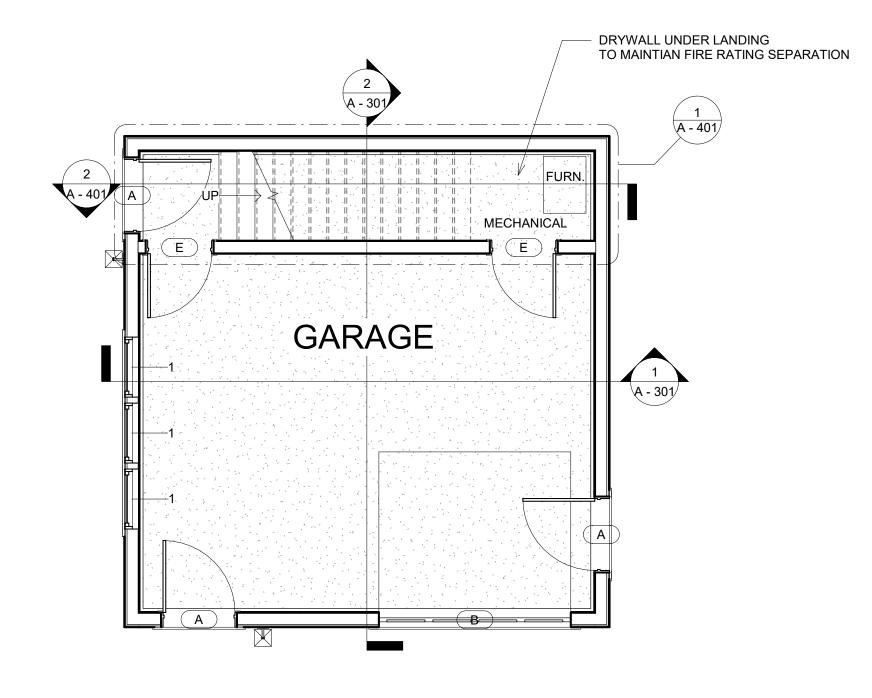
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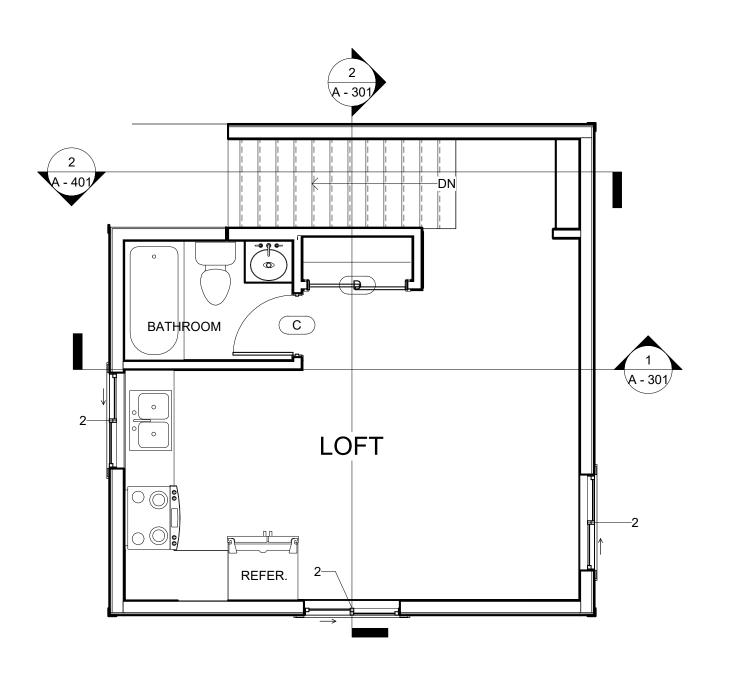
Site Plan

WINDOW SC	HEDULE
WINDOW ID	UNIT SIZ
1	2'-6"x4'-0'
2	4'-0"x3'-6'

Door Schedule			
DOOR ID	NOMINAL W x H	TYPE	
Α	3'-0"x6'-8"	SGL	
Α	3'-0"x6'-8"	SGL	
Α	3'-0"x6'-8"	SGL	
В	8'-0"x7'-0"	GARAGE	
С	2'-6"x6'-8"	SGL	
D	4'-0"x6'-8"	SGL	
E	2'-8"X6'-8"		
Е	2'-8"X6'-8"		







- PROVIDE HANDRAIL FROM NOSING OF TOP STAIR TO NOSING OF BOTTOM STAIR AS PER IRC.
- PROVIDE 36" (MIN.) GUARDRAIL AS PER IRC & OWNER.
- PROVIDE EXTERIOR COMBUSTION AIR AS PER IRC.
- PROVIDE APPROVED SEISMIC STRAP FOR WATER HEATERS AS PER IRC.
- PROVIDE 5/8" TYPE 'X' GYP. BD. UNDER STAIRS AS PER IRC.
- 1HR RATED WALL AT STAIRS BETWEEN STAIRS AND GARAGE.
- 1HR RATED FLOOR BETWEEN GARAGE AND APARTMENT.
- ICW IRC R303 NATURAL VENTILATION EQUALING 4% OF THE FLOOR AREA SHALL BE THROUGH WINDOWS, DOORS, OR OTHER APPROVED OPENINGS TO THE OUTDOORS UNLESS A WHOLE HOUSE MECHANICAL VENTILATION SYSTEM WITH OUTSIDE AIR IS INSTALLED AS PER IRC M1507.3 PROVIDE 30 MIN. RATED DOOR AS

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DEMOLTION NOTES

EXISTING GARAGE TO BE

REQ'D.

- DEMOLISHED. VERIFY THAT THE CITY DOES NOT HAVE A SEPERATE DEMO PERMITTING PROCESS.
- ALL EXISTING HOUSE AND SITE NOT TO BE DEMOLISHED IS TO BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE IS TO BE CORRECTED BY CONTRACTOR OR SUBCONTRACTOR.

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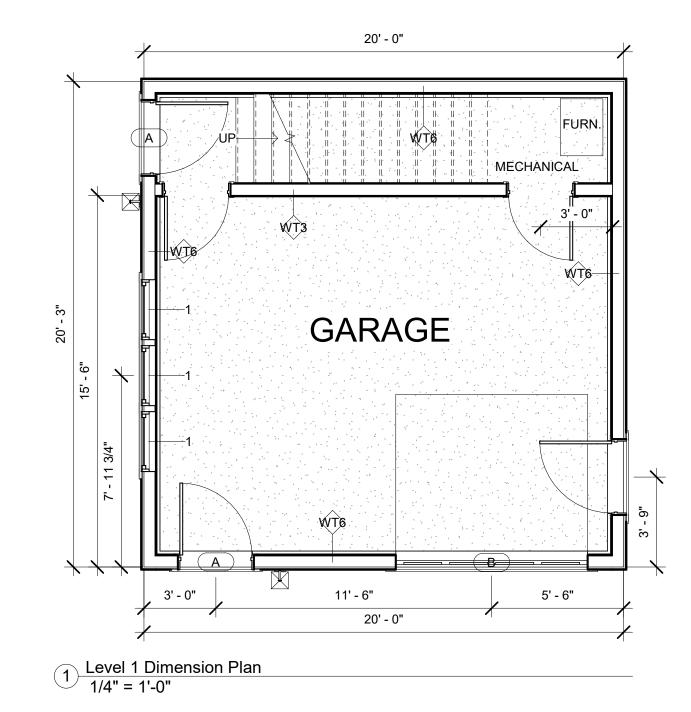
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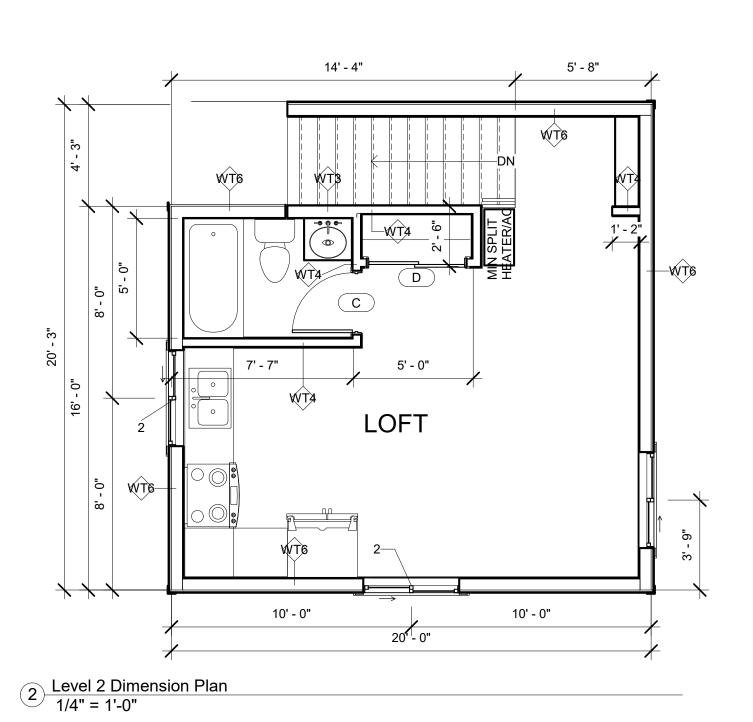
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Levels 1 and 2





GENERAL NOTES

- 1. DIMENSIONS ARE TO EDGE OF STUD U.N.O.
- 2. DIMENSIONS ARE TO CENTER LINE Final: rollandtlee555@yahoo.com rollandtlee5335@gmail.com

WALL TYPES

WT1 - 8" CONCRETE WALL WT2 - 8" CONCRETE WALL W/2X4 STUDS @ 16" O.C. W/ R-13 BATT INSUL W/1/2" DRYWALL WT3 - 2X6 STUDS@ 16" O.C. W/ R-13 BATT INSUL W/ 1/2" DRYWALL

WT4 - 2X4 STUDS @ 16" O.C. W/ 1/2"
DRYWALL
WT5 - 1/2" DRYWALL O/2X6 STUDS @ 16"
O.C. W/R-19 BATT INSUL
O/EXTERIOR SHEATHING O/BRICK
VENEER
WT6 - 1/2" DRYWALL O/2X6 STUDS @ 16"
O.C. W/R-19 BATT INSUL O/ 7/16"
EXTERIOR SHEATHING W/SIDING

EXTERIOR SHEATHING W/SIDING WT7 - 2X4 STUDS @ 16" O.C. W/R-13 BATT INSUL W/ 1/2" FIRE RATED DRYWALL EA. SIDE.

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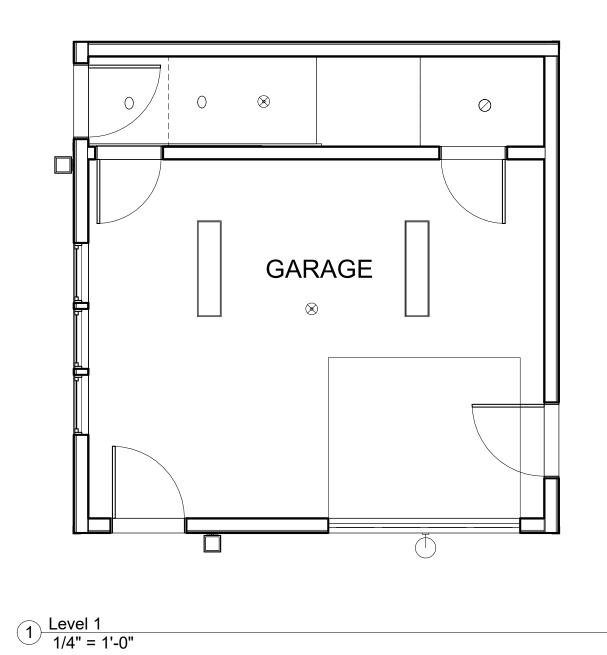
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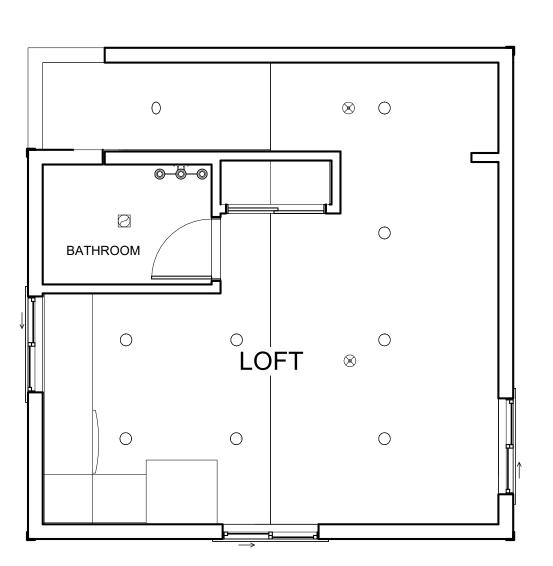
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Level 1 and 2 Dimension Plans





2 Level 2 1/4" = 1'-0"

LEGEND

- DUPLEX ELECTRICAL OUTLET
- PGFI GFI DUPLEX ELECTRICAL OUTLET
- \$ FIXTURE SWITCH
- \$ 3-WAY FIXTURE SWITCH
- ⊗ SMOKE/ CO2 DETECTOR
- QUAD ELECTRICAL OUTLET

FLUORESCENT BOX LIGHT

- PGFI GFI QUAD ELECTRICAL OUTLET
- EXTERIOR WALL MOUNTED LIGHT
- EXTERIOR WALL MOUNTED LIGHT
- © P VANITY LIGHT
- ☐ EXHAUST FAN AND LIGHT
- ^E CENTERLINE

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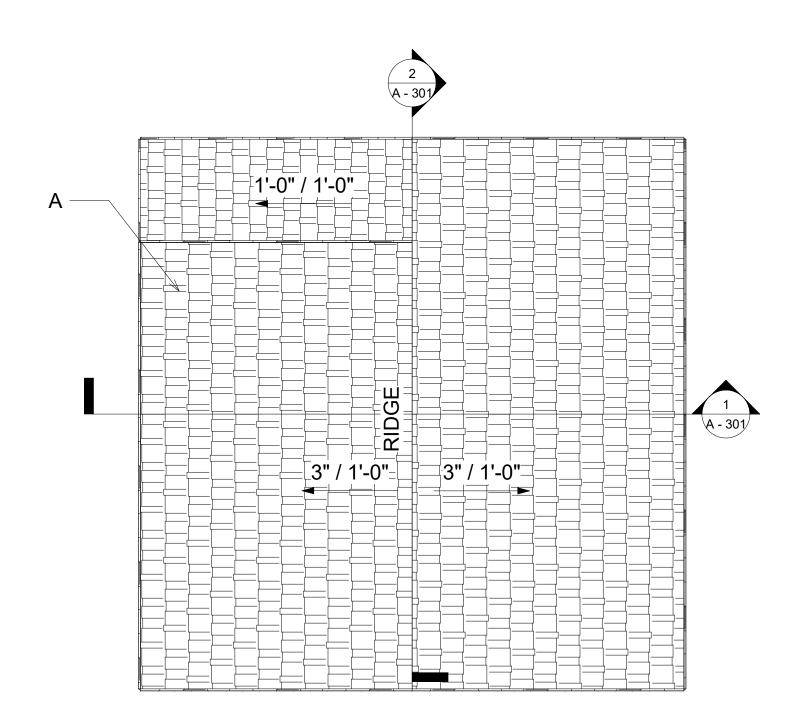
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Reflected Ceiling Plan



1 Roof Plan 1/4" = 1'-0"

GENERAL NOTES

- ALL OVERHANGS TO BE . 1'-4" FROM FINISHED WALL.
- PROVIDE ADEQUATE ATTIC VENTILATION AREA REQ'D BY CODE.

- CODE.
 PROVIDE ADEQUATE SLOPE FOR
 WATER DRAINAGE AS REQ'D.
 PROVIDE ICE & WATER SHIELD @
 ALL ROOF EDGES, EAVES OR
 VALLEYS, & EXTEND 24" UP WARM
 SIDE OF THE EXTERIOR WALL.
 TRUSS MANUFACTURER TO SUBMIT
 ENGINEERED SHOP DRAWINGS TO
 CITY BUILDING OFFICIALS FOR
 APPROCAL PRIOR TO
 FABRICATION.
 PROVIDE ROOF DRAIN &
 DOWNSPOUTS AS REQ'D.

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KEYED NOTES

A. ARCHITECTURAL SHINGLES, OWNER APPROVED, SAMPLE REQUIRED.

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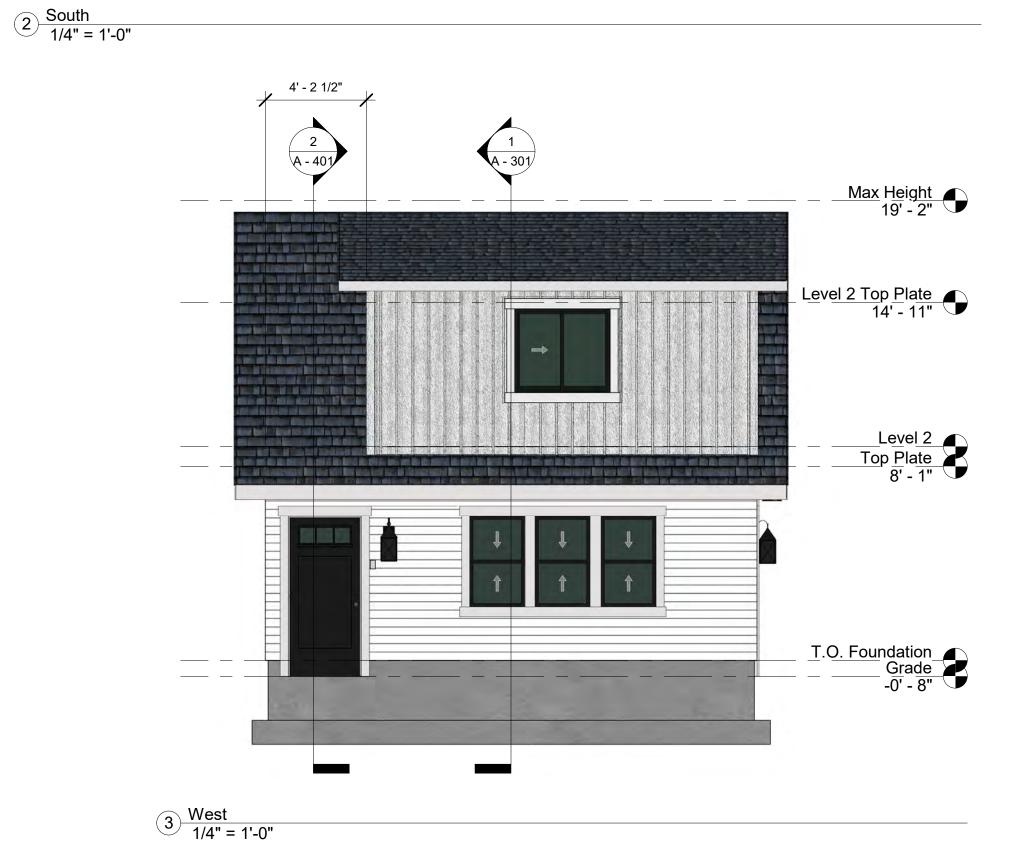
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Roof Plan

BOARD AND STYLE SELECTED BY OWNER Max Height 19'-2" Level 2 Top Plate 14'-11" Level 2 8--11" Top Plate 8'-1" Top Plate 8'-1" Top Plate -0'-8"



GENERAL NOTES

- 1. ARCHITECTURAL SHINGLES W/MOISTURE
 BARRIER O/ROOF SHEATHING O/ROOF TRUSS (PER
 STRUCTURAL DRAWINGS) O/R38 BATT INSUL IN ALL
 ROOF LOCATIONS. COLOR AND STYLE SELECTED
 BYOWNER.
- 2. EXTERIOR FINISH W/MOISTURE BARRIER, EXT. WALL SHEATHING, 2X6 STUDS @ 16" O.C. W/R19 BATT INSUL AND 1/2" PAINTED DRYWALL. COLOR AND MATERIAL SELECTED BY OWNER.
- DOORS & WINDOWS AS PER FLOOR PLANS,
- SCHEDULES, & OWNER.

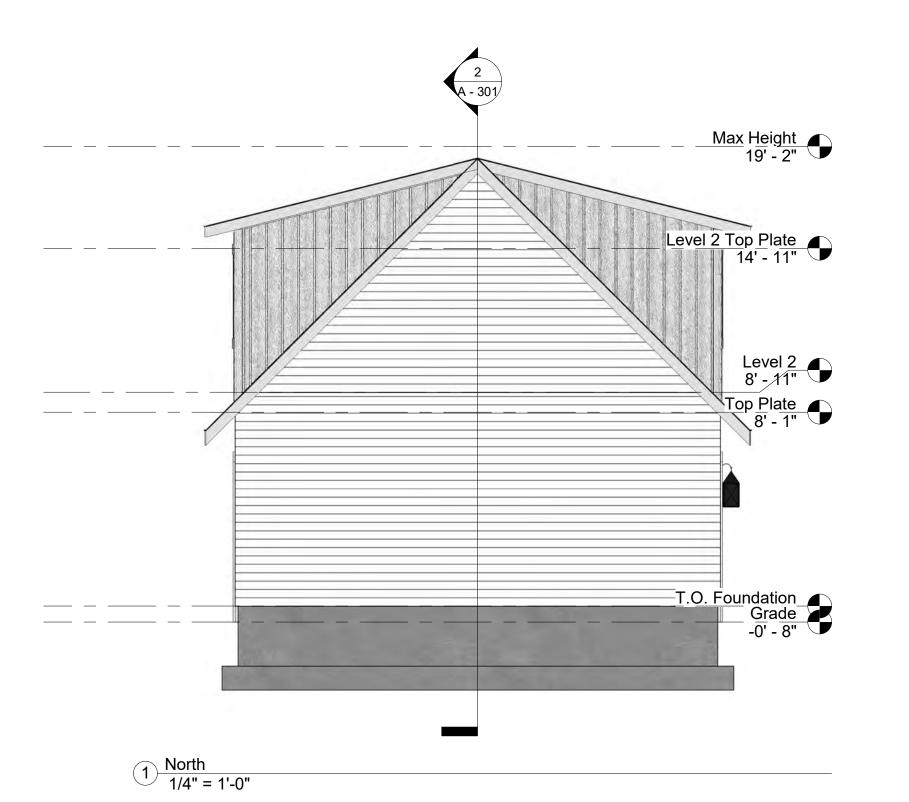
 ALUMINUM FASCIA W/ VENTED SOFFIT AS PER
- OWNER.
- 5. FOOTING, SEE STRUCTURAL.
 6. 4" CONCRETE SLAB W/4" GRANULAR BASE W/10 MIL POLYETHYLENE. SEE STRUCTURAL.

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Elevations









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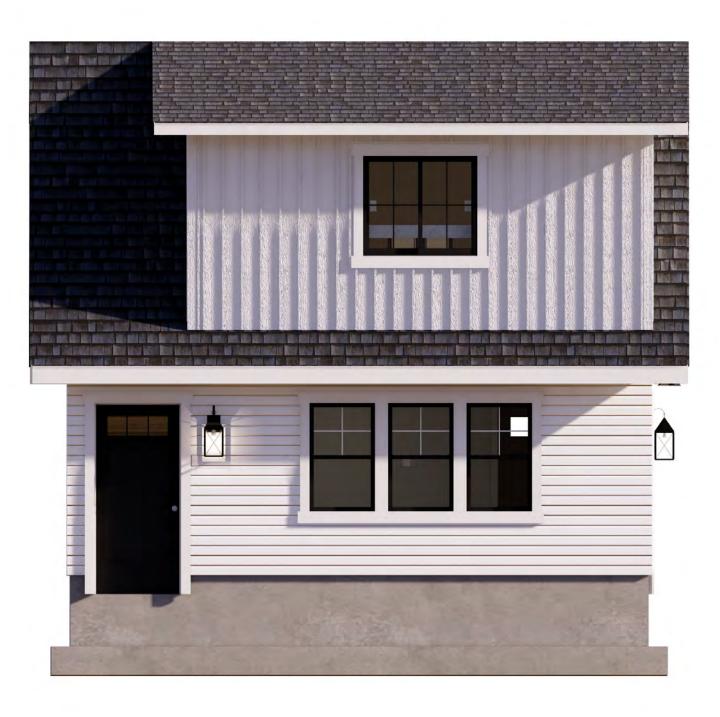
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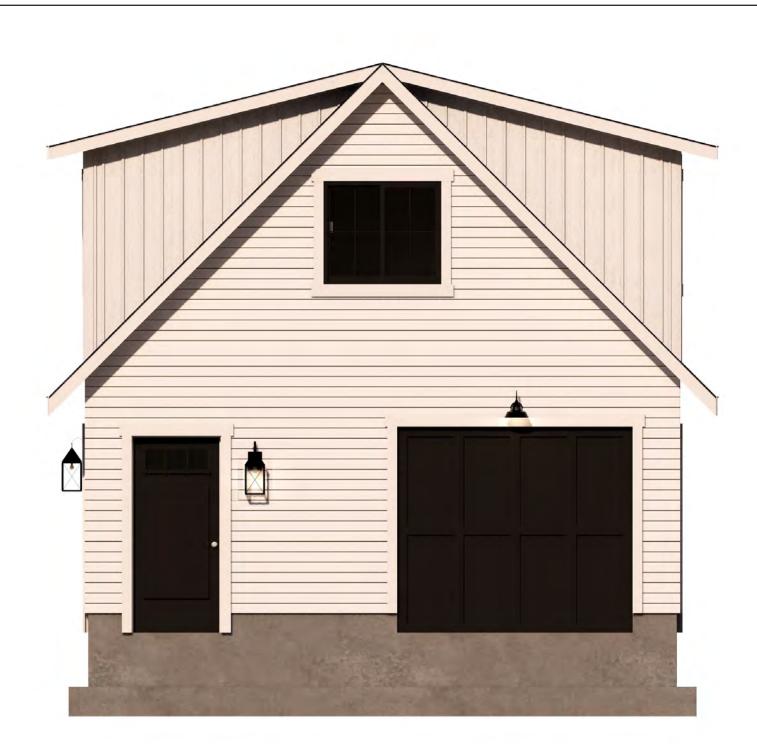
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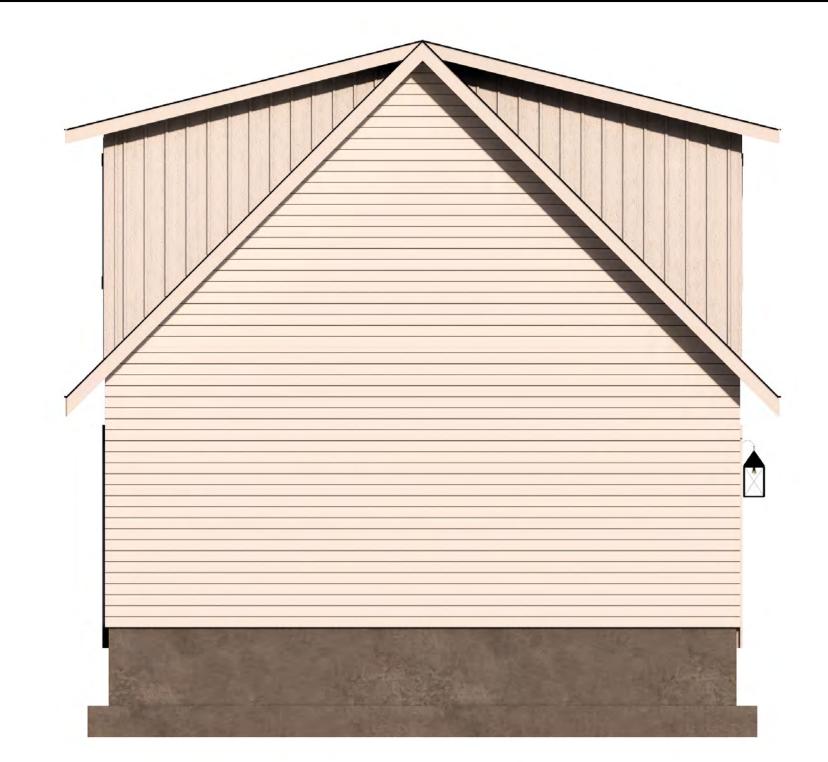
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Exterior Renderings









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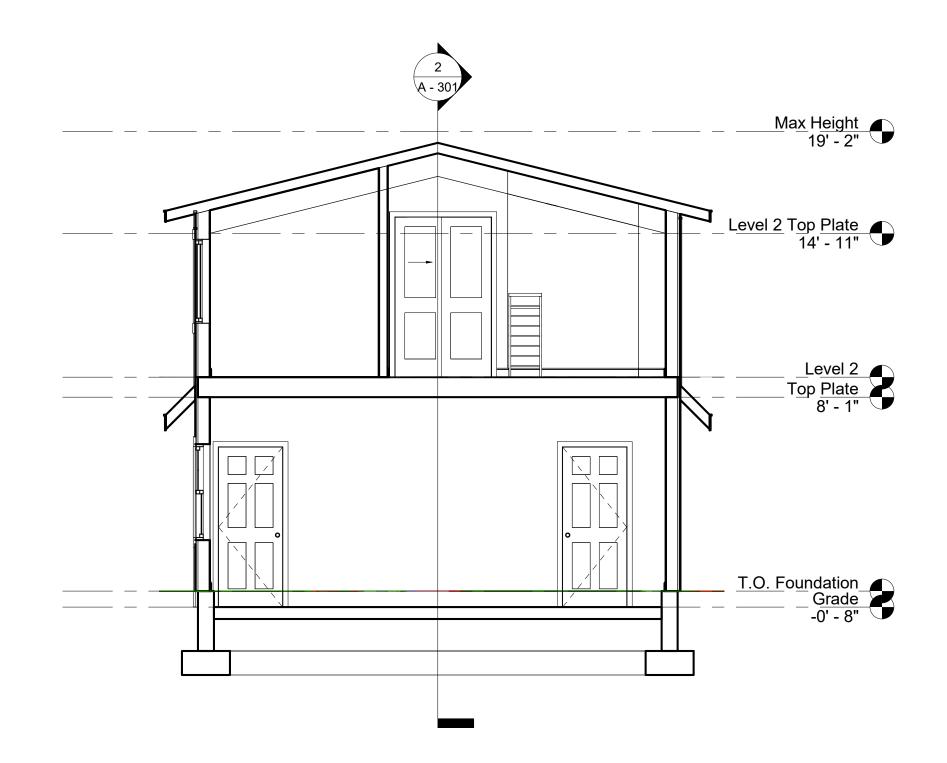
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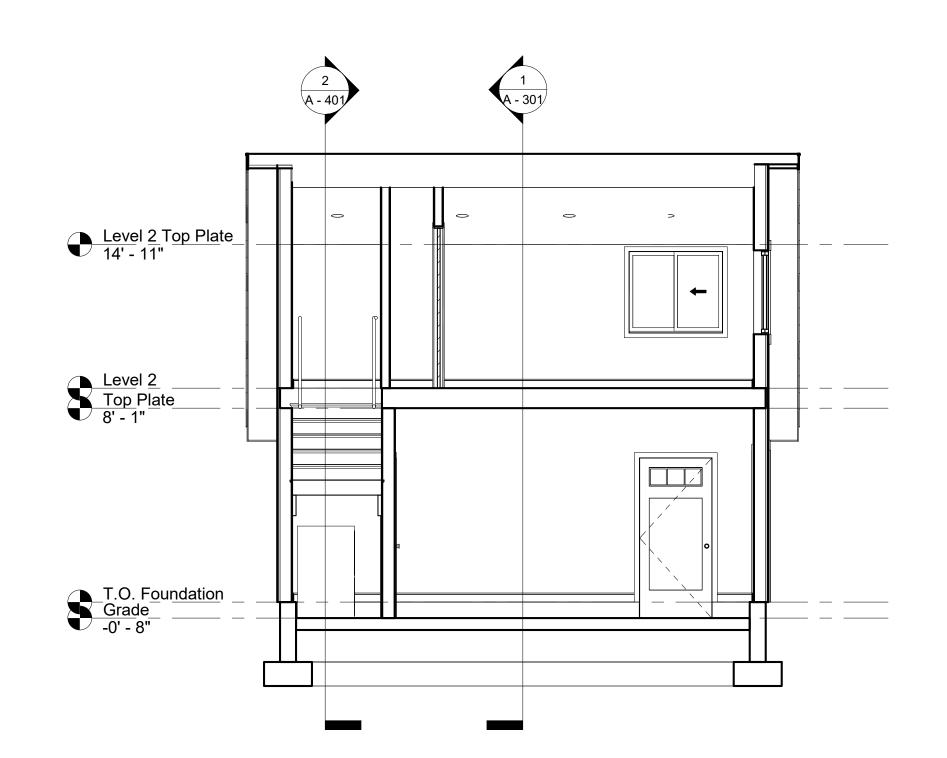
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Exterior Renderings





1 Section 1 1/4" = 1'-0"

2 Section 2 1/4" = 1'-0"

Rolland T. Lee Residential Design

Contact Information:
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rollandtlee5335@gmail.com

629 N. Main Street ALPINE, 84004

CONSULTANTS

Anglea Wright Detached Garage Addition

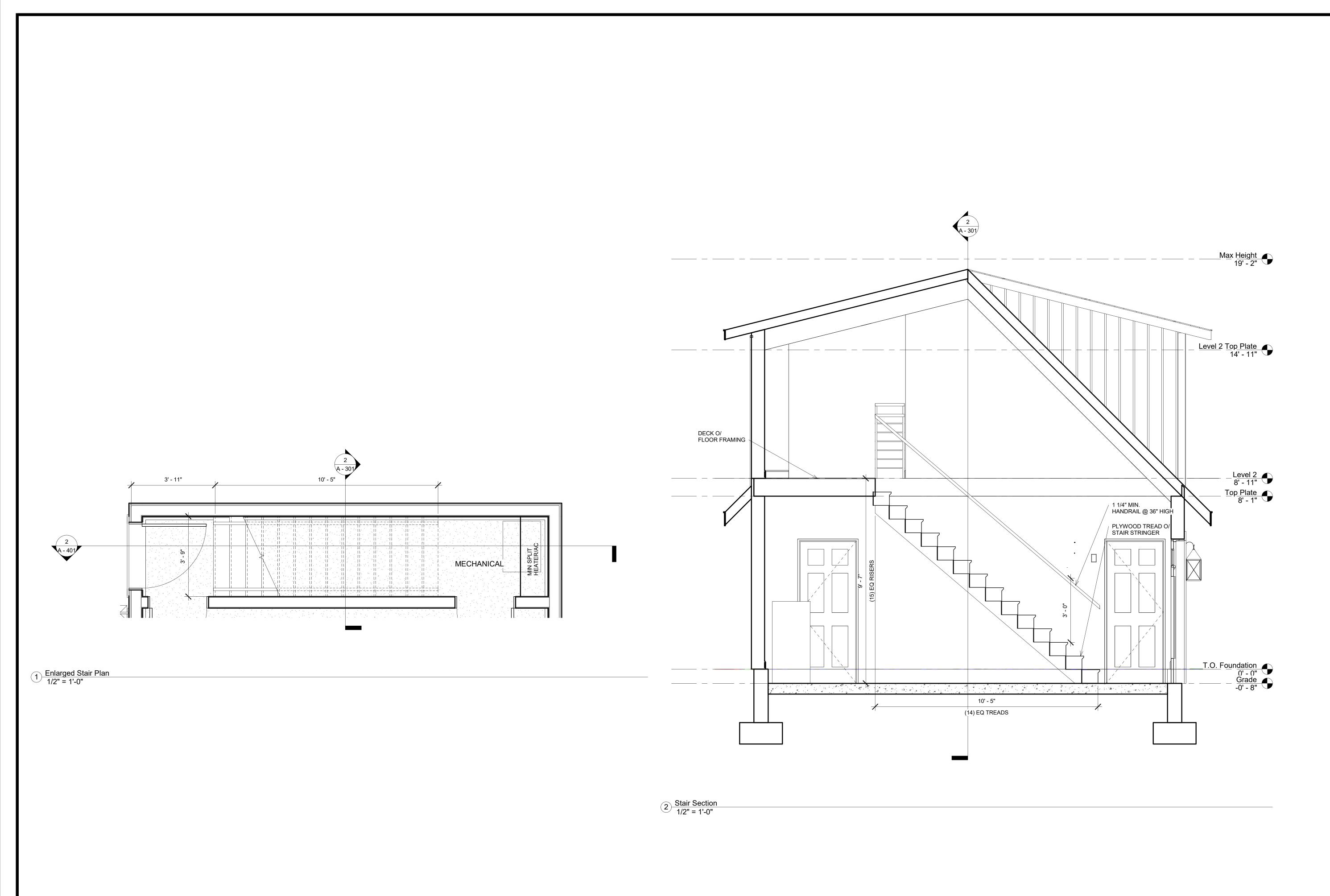
529 Sherman Ave, Salt Lake City, UT 84105

DATE	Ξ: Jι	une 16, 2021	
REVISI	ONS		
MARK	DATE	DESCRIPTIO	N
1	8/7/21	ADJUSTMENT	TO SETBACK

PROJECT NO:			
MODEL FILE:			
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SHEET TITLE

Building Sections



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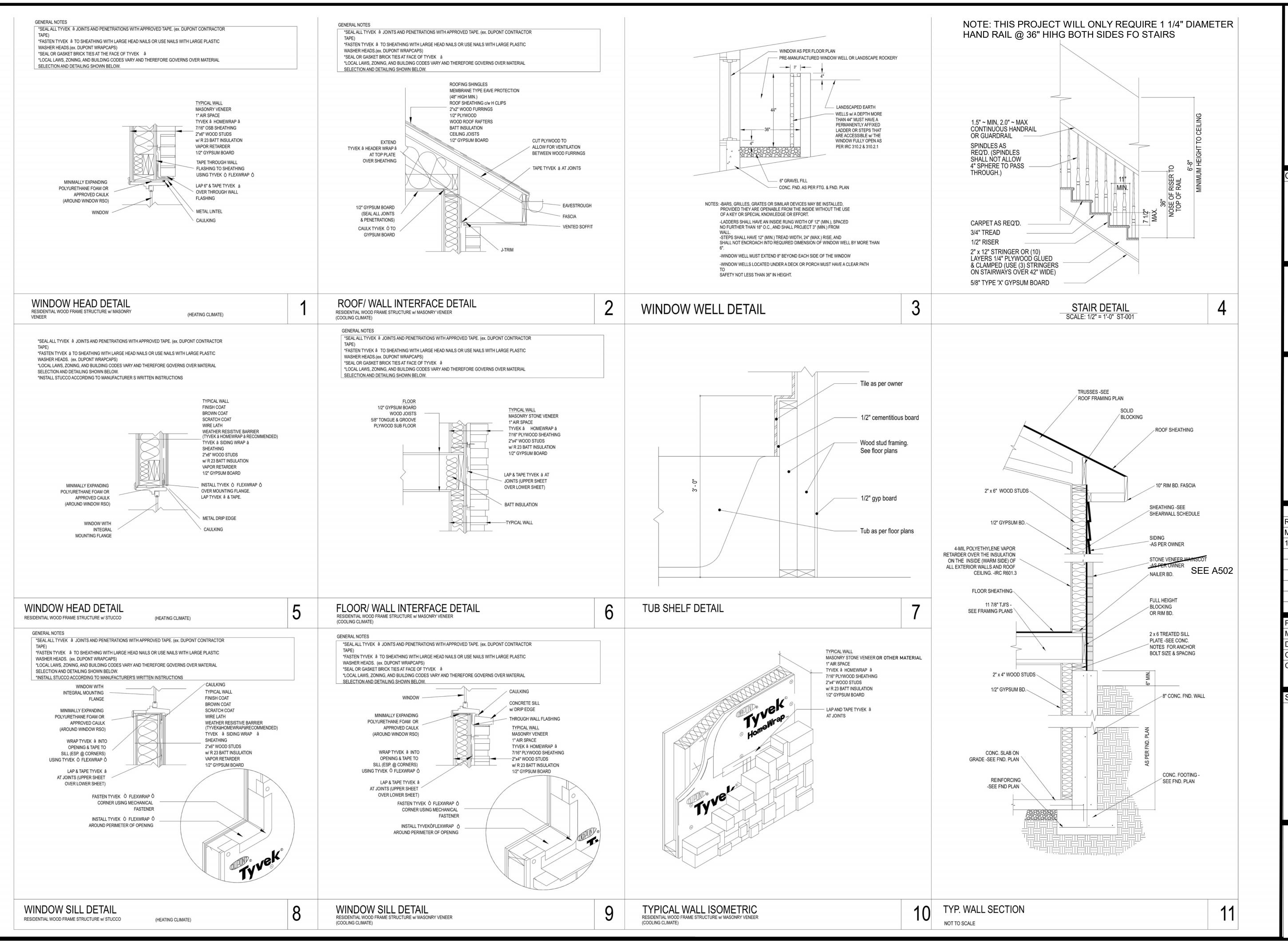
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Stair Plan



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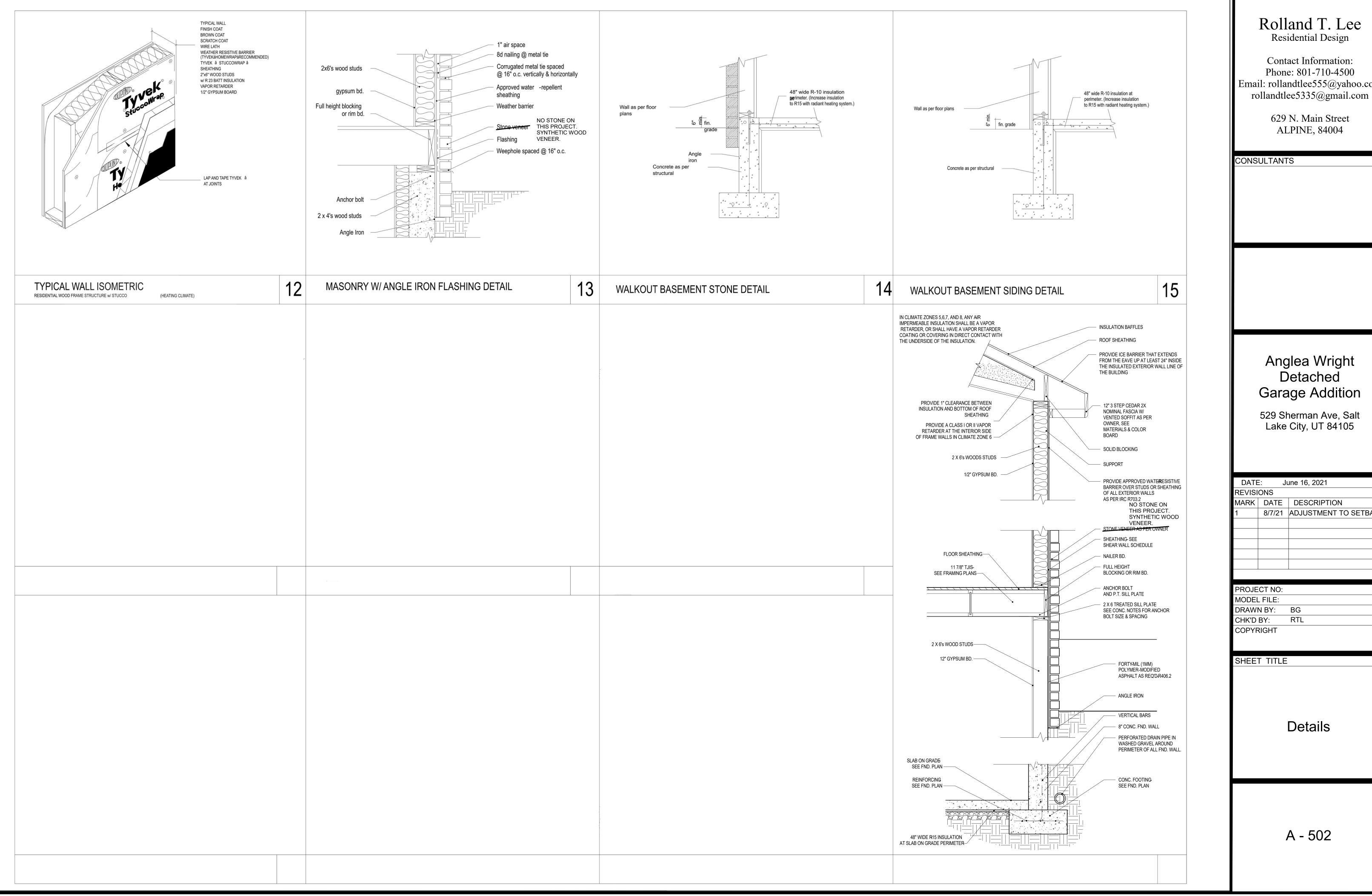
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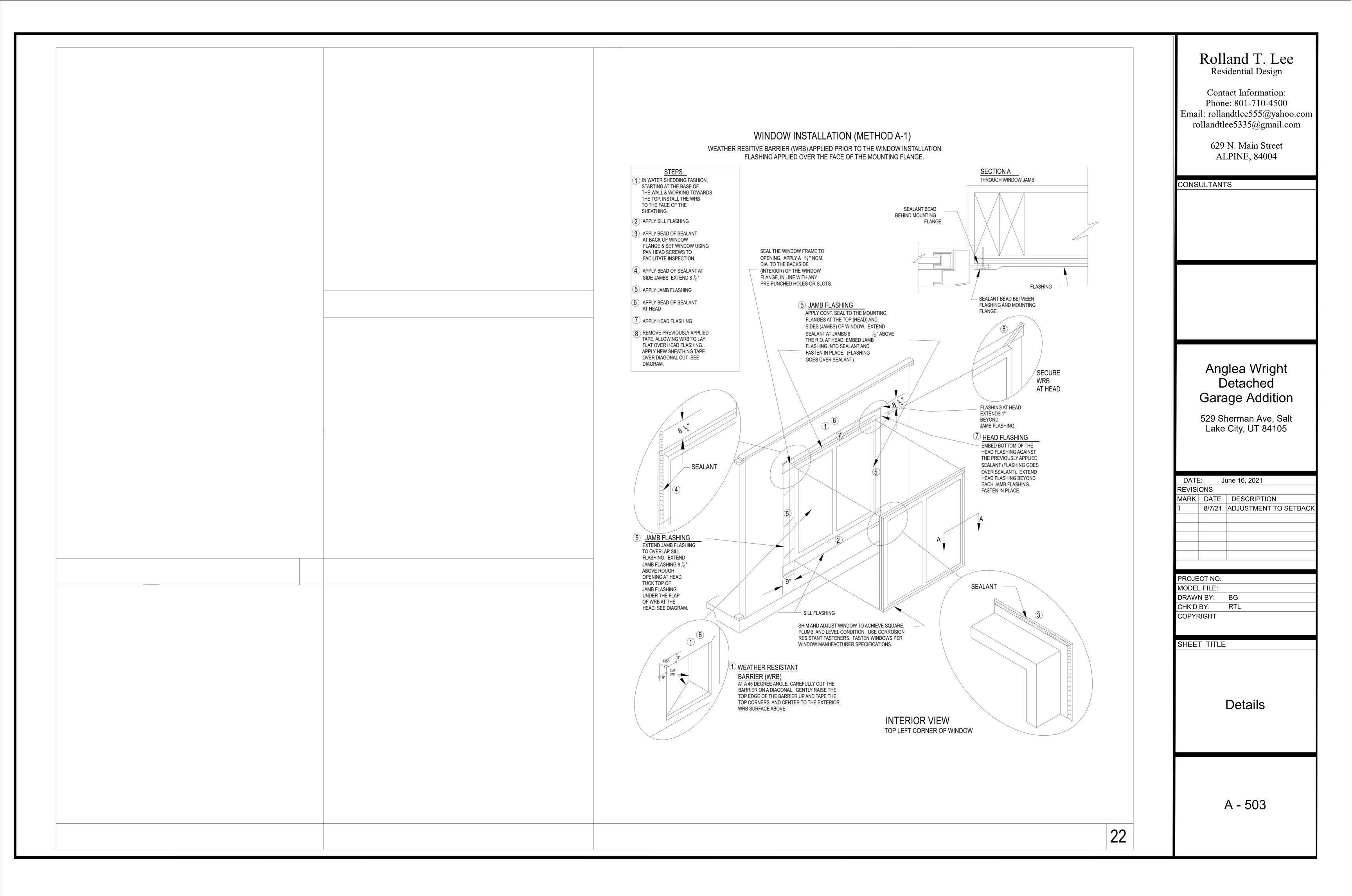
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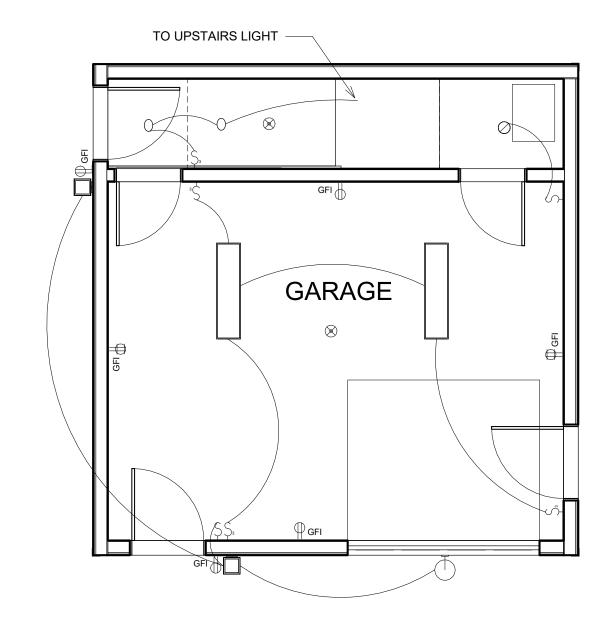
Details



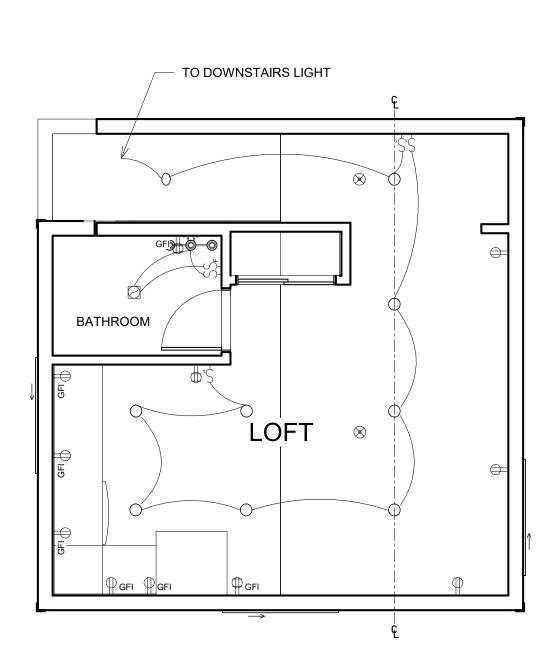
Email: rollandtlee555@yahoo.com

DATE	<u>Ξ</u> : Jι	une 16, 2021	
REVISI	ONS		
MARK	DATE	DESCRIPTION	
1	8/7/21	ADJUSTMENT TO SETBACK	
PROJECT NO:			
IFRUJECT NO.			





1 Level 1 Electrical Plan 1/4" = 1'-0"



2 Level 2 Electrical Plan 1/4" = 1'-0"

LEGEND

- DUPLEX ELECTRICAL OUTLET
- **⊕** GFI DUPLEX ELECTRICAL OUTLET
- \$ FIXTURE SWITCH
- 3-WAY FIXTURE SWITCH
- RECESSED CAN LIGHT
- ⊗ SMOKE/ CO2 DETECTOR
- FLUORESCENT BOX LIGHT
- **QUAD ELECTRICAL OUTLET**
- The Grant GFI QUAD ELECTRICAL OUTLET
- EXTERIOR WALL MOUNTED LIGHT
- © P OVANITY LIGHT
- EXHAUST FAN AND LIGHT E CENTERLINE

GENERAL NOTES

- All smoke detectors to be hard-wired, interconnected, and have battery backup as per IRC R314.
- Provide carbon monoxide detectors @ each habitable level of dwelling as per IRC.
- All receptacles serving kitchen counter tops, in garages, baths, unfinished basements, and outside receptacles shall be GFCI protected per IRC E3902.
- 4 Outlets are req'd so that no point along walls is more than 6 feet from an outlet.
- 5 All electrical installations shall comply with the IRC 2015 & NEC 2014.
- 6 All branch circuits that supply electrical in bedrooms need to be provided with arc-fault protection. Per IRC 3902.12.
- Provide U-fer ground as per IRC. All electrical installations shall comply with the IRC 2015 & NEC 2014.
- 9 Outlets are req'd abv. counter space so that no point along the wall is more than 24" from an
- 10 Provide outlet @ ceiling for garage door opener. 11 Provide 110v outlet @ eaves for holiday lighting w/ photocell & override switch as per owner.
- 12 All exterior outlets to be GFCI protected w/ weather proof bubble covers.
- 13 An outlet is req'd outside the front and rear of the dwelling as per IRC.

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DATE	Ξ: Jι	une 16, 2021
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SHEET TITLE

Electrical Plan

E - 01

- 1. THE STRUCTURAL NOTES ARE TO COMPLIMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS IN THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS. TYPICAL DETAILS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN.
- 2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
- 3. OMISSIONS OR CONFLICTS FOUND IN THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- 4. DO NOT SCALE STRUCTURAL DRAWINGS. REFER TO ARCHITECT'S DRAWINGS FOR ALL DIMENSIONS.
- 5. REVIEW OF CONSTRUCTION SUBMITTALS/SHOP DRAWINGS BY THE ENGINEER OF RECORD IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PERTINENT INFORMATION AND ENSURING THAT DESIGN REQUIREMENTS ARE MET.
- 6. THE CONTRACTOR SHALL VERIFY AND COORDINATE LOCATIONS AND SIZES OF ALL MECHANICAL OR OTHER EQUIPMENT BEFORE FABRICATING OR ERECTING AFFECTED STRUCTURAL ELEMENTS. LOCATIONS AND SIZES THAT DIFFER FROM THOSE INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
- 7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS OR SUBSTITUTIONS AFFECTING ANY STRUCTURAL ELEMENTS.
- 8. DURING AND AFTER CONSTRUCTION, THE DESIGN LOADS AS INDICATED IN THESE DOCUMENTS SHALL NOT BE EXCEEDED.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL COMPONENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. DESIGN OF SUCH SHORING AND BRACING IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER.
- 10.STRUCTURAL OBSERVATIONS SHALL BE CONDUCTED AS NEEDED BY A REPRESENTATIVE OF THE ENGINEER OF RECORD AND WILL CONSIST OF OBSERVING THE CONSTRUCTION OF CRITICAL STRUCTURAL ELEMENTS. THESE STRUCTURAL OBSERVATIONS SHALL NOT BE CONSTRUED AS SPECIAL INSPECTIONS OR APPROVAL OF CONSTRUCTION.
- 11.ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY; MEANS, METHODS AND SEQUENCING OF CONSTRUCTION.

FOUNDATION NOTES

STRENGTH.

- 1. SOIL PREPARATION UNDER FOOTINGS AND SLABS ON GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT. FOR PROJECTS WITHOUT A SOILS REPORT ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR ENGINEERED GRANULAR FILL COMPACTED TO NOT LESS THAN 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557). FOR PROJECTS WITHOUT A SOILS REPORT ALL SLABS ON GRADE SHALL BEAR ON UNDISTURBED NATIVE SOIL OR ENGINEERED GRANULAR FILL COMPACTED TO NOT LESS THAN 90% OF MODIFIED PROCTOR DENSITY (ASTM D-1557).
- 2. FOOTINGS SHALL NOT BE PLACED ON FROZEN OR UNSTABLE SOILS, OR WHERE WATER OR SNOW ARE PRESENT.
- 3. UNLESS NOTED OTHERWISE ALL FOOTINGS AT COLUMNS TO BE CENTERED BELOW COLUMNS. 4. ALL FOUNDATION WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL
- 5. UNLESS NOTED OTHERWISE ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.). CONCRETE FOR FOOTINGS MAY BE PLACED IN EXCAVATED "SOIL" FORMS PROVIDED THAT THE DIMENSIONS ARE INCREASED 3 INCHES ON EACH SIDE.
- 6. TOP OF FOOTING ELEVATIONS WHERE SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND MUST BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ALL EXTERIOR FOOTINGS MUST BEAR A MINIMUM DIMENSION BELOW LOWEST ADJACENT FINAL GRADE AS NOTED IN THE DESIGN CRITERIA NOTES.

CONCRETE NOTES

- 1. UNLESS NOTED OTHERWISE ALL CONCRETE SHALL BE NORMAL WEIGHT AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AS FOLLOWS:
- A. 3000 PSI AT ALL FOOTINGS, FOUNDATION WALLS, INTERIOR SLABS ON GRADE, AND SUSPENDED SLABS ON METAL DECK.
- B. 4000 PSI AT ALL COLUMNS, WALLS, RETAINING WALLS, EXTERIOR SLABS ON GRADE, CURBS, AND GUTTERS.
- C. 5000 PSI AT ALL SUSPENDED SLABS AND BEAMS.
- 2. NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE STRUCTURAL ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE PLACEMENT.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC.
- 4. CONSTRUCTION JOINTS SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE. PROVIDE 2 X 4 (SHAPED) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS UNLESS NOTED OR DETAILED OTHERWISE. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS UNLESS NOTED OTHERWISE.
- 5. UNLESS NOTED OTHERWISE AT OPENINGS LARGER THAN 12" IN ANY DIRECTION IN CONCRETE WALLS ADD (2) #5 BARS ALL SIDES IN ADDITION TO REGULAR WALL REINFORCING AND EXTEND 24" EACH WAY BEYOND OPENING. WHERE 24" IS NOT AVAILABLE, EXTEND BARS AS FAR AS POSSIBLE AND TERMINATE WITH A STANDARD HOOK.
- . UNLESS NOTED OTHERWISE SLABS ON GRADE SHALL BE 4 INCHES THICK UNDERLAIN BY FREE DRAINING MATERIAL.
- 7. FOOTINGS HAVE BEEN DESIGNED AT 2500 PSI AND SPECIFIED AT A HIGHER STRENGTH CONCRETE AS STATED ABOVE. SPECIAL INSPECTIONS ARE NOT REQUIRED PER IBC 1705.3.

REINFORCING STEEL NOTES

- 1. ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-185, SHALL BE SUPPLIED IN FLAT SHEETS AND SHALL HAVE A MINIMUM SIDE LAP OF 8 INCHES. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 315 TO MAINTAIN EXACT REQUIRED POSITION.
- 2. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
- 3. UNLESS NOTED OTHERWISE CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT POINTS OF MINIMUM STRESS BY LAPPING 44 BAR DIAMETERS IN CONCRETE AND 50 BAR DIAMETERS IN
- 4. ALL VERTICAL REINFORCING SHALL BE DOWELED TO FOOTINGS BELOW WITH DOWELS TO MATCH. SPLICE LENGTHS SHALL COMPLY WITH THE PRECEDING NOTE. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK, AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE THAN 20 INCHES INTO THE FOOTING.
- 5. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS. WHERE REINFORCING IS WELDED. USE ASTM A-706 REINFORCING.
- 6. REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE:
- A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
- B. EXPOSED TO EARTH OR WEATHER:
- 2 INCHES I. #6 AND LARGER:
- II. #5 AND SMALLER:
 - 1-1/2 INCHES
- C. NOT EXPOSED TO EARTH OR WEATHER:
- I. SLABS, WALLS, JOISTS, #11 AND SMALLER: 3/4 INCHES BEAMS, COLUMNS: MAIN REINFORCING OR TIES: 1-1/2 INCHES
- D. SLABS ON GRADE: PLACE REINFORCING AT CENTER OF SLAB UNLESS NOTED OTHERWISE.

LUMBER NOTES

- 1. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR/LARCH CLEARLY MARKED WITH A STAMP BY

 - B. VERTICAL MEMBERS: POST & TIMBERS: NO. 2, STUDS: NO. 2
- PRESSURE TREATED OR TIMBERSTRAND LSL TREATED LUMBER WITH EQUIVALENT STRESS
- NUMBER 24F-V4 EXCEPT CANTILEVERED AND CONTINUOUS BEAMS SHALL BE COMBINATION NUMBER 24F-V8
- 4. ALL LAMINATED VENEER LUMBER (LVL) SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR EQUAL AS APPROVED BY ENGINEER AND SHALL HAVE A MINIMUM MODULUS OF ELASTICITY OF 1,900,000 PSI WITH A MINIMUM FLEXURAL STRESS RATING OF 2,600 PSI.
- 5. ALL WOOD "I" JOISTS, AND BRIDGING SHALL BE FURNISHED BY TRUS-JOIST CORPORATION OR
- 6. BEAM SIZES ARE BASED ON MINIMUM STRENGTH REQUIREMENTS. SIZES MAY BE INCREASED FOR WIND EXPOSURE: ARCHITECTURAL OR CONSTRUCTION PURPOSES.
- 7. TYPICAL DOOR/WINDOW HEADERS TO BE (2) 2x8 UNLESS NOTED OTHERWISE.
- 8. 2-PLY AND 3-PLY PRE-ENGINEERED WOOD BEAMS SHALL BE NAILED TOGETHER PER BE ATTACHED WITH (2) ROWS OF 1/2 INCH DIAMETER THRU-BOLTS AT 12 INCHES ON CENTER SPACED 2 INCHES FROM THE TOP AND BOTTOM OF THE BEAM. SEE MANUFACTURER'S
- 10.ALL FRAMING ANCHORS, POST CAPS, HOLD DOWNS, HANGERS, COLUMN BASES ETC. TO BE
- 11.ROOF SHEATHING SHALL BE 7/16 INCH APA RATED SHEATHING WITH A SPAN RATING OF 24/16 12.FLOOR SHEATHING SHALL BE 3/4 INCH T&G WAFER BOARD GLUED AND NAILED. GLUE SHALL
- 13.WALL SHEATHING SHALL BE 7/16 INCH APA RATED SHEATHING. SEE SHEAR WALL SCHEDULE FOR
- 14.UNLESS OTHERWISE NOTED, 8d NAILS SHALL BE USED TO FASTEN ALL ROOF AND WALL
- FRAMING AS FOLLOWS: A. BOUNDARY NAILING "BN": 4 INCHES ON CENTER AT ALL ROOF AND FLOOR SHEATHING INTO
- 15. FASTENERS AT EXPOSED LOCATIONS OR IN CONTACT WITH PRESERVATIVE-TREATED AND/OR FIRE-RETARDANT-TREATED WOOD (EXCEPT FOR TIMBERSTRAND LSL TREATED LUMBER) SHALL BE
- OF G-185 HOT-DIPPED, ZINC-COATED, GALVANIZED STEEL OR 304 OR 316 STAINLESS STEEL. STAINLESS STEEL AND GALVANIZED STEEL SHALL NEVER BE USED IN CONTACT WITH EACH OTHER.
- ASTM A563 HEAVY HEX NUTS AND BOLT HEADS.
- FOOTINGS WITH 5/8 INCH DIAMETER ANCHOR BOLTS AT 32" O.C. WITH 8" MINIMUM EMBEDMENT. WALL BOTTOM PLATES AT SHEAR WALLS SHALL INCLUDE 3"x3"x1/4" STEEL PLATE WASHERS. PROVIDE A ROUND CUT WASHER BETWEEN THE NUT OF THE ANCHOR BOLT AND THE PLATE WASHER.
- 18.PROVIDE DOUBLE JOIST UNDER PARALLEL NONBEARING WALLS AND SOLID BLOCKING UNDER PERPENDICULAR NONBEARING WALLS.
- 19.AT ALL OVERBUILD LOCATIONS, ROOF SHEATHING SHALL BE COMPLETE BELOW OVERBUILDS PRIOR TO OVERBUILD CONSTRUCTION.
- 20.PROVIDE SOLID 2" (NOMINAL) FULL DEPTH BLOCKING AT ENDS AND SUPPORT LOCATIONS FOR ALL JOISTS AND RAFTERS. BLOCKING SHALL BE ATTACHED TO SUPPORT FRAMING WITH A MINIMUM OF (1) SIMPSON A35 FRAMING ANCHOR BETWEEN JOISTS UNLESS OTHERWISE NOTED.
- 21.UNLESS OTHERWISE NOTED, ALL BEARING WALLS SHALL BE SPACED AT 16" ON CENTER. BLOCK ALL NON-SHEATHED BEARING WALLS AT 4'-0" ON CENTER.
- ANCHOR BOLTS, PROVIDE AN ADDITIONAL FULL-HEIGHT STUD TO ENSURE THAT THE FULL CROSS-SECTIONAL AREA OF THE STUD IS IN CONTACT WITH THE SILL PLATE.
- OF OVERLAP AND SHALL BE CONNECTED WITH A MINIMUM OF (12) 16d NAILS.
- 24.EXCEPT WHERE OTHERWISE NOTED, THE NUMBER AND SIZE OF NAILS CONNECTING WOOD
- 25.THE DEFERRED DESIGNS OF ALL PRE-MANUFACTURED WOOD TRUSSES, BLOCKING, TRUSS HANGERS, AND RELATED COMPONENTS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO INSTALLATION. DRAWINGS AND CALCULATIONS FOR THESE ITEMS ARE REQUIRED TO BE SEALED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF UTAH.
- 26.MASONRY VENEER SHALL BE ANCHORED TO WALL STUDS BY USE OF MULTI-PIECE ANCHORS RUNNING CONTINUOUSLY IN HORIZONTAL MORTAR JOINTS (DUR-O-WAL D/A 213 SEISMIC OR APPROVED EQUAL). WIRE TO BE SPACED VERTICALLY AT 16" O.C. ANCHORS SHALL BE SPACED SO AS TO SUPPORT NOT MORE THAN 2 SQUARE FEET OF WALL AREA. WITH HORIZONTAL

- WWPA APPROVED AGENCY AND SHALL BE GRADED AS FOLLOWS:
- A. HORIZONTAL MEMBERS: JOISTS & RAFTERS: NO. 2, BEAMS & STRINGERS: NO. 2
- 2. ALL FRAMING IN CONTACT WITH FOOTINGS, FOUNDATIONS OR SLABS ON GRADE SHALL BE GRADES TO TYPICAL FRAMING MEMBERS.
- 3. GLU-LAMINATED BEAMS SHALL BE DOUGLAS-FIR APPEARANCE GRADE WITH A COMBINATION
- EQUAL AS APPROVED BY ENGINEER.
- ULTIMATE DESIGN WIND SPEED, Vult:
- MANUFACTURER'S SPECIFICATIONS. 4-PLY AND GREATER PRE-ENGINEERED WOOD BEAMS SHALL SPECIFICATIONS FOR ALL OTHER CONNECTION CONDITIONS.
- 9. SOLID BLOCKING OR SQUASH BLOCKS ARE REQUIRED IN THE JOIST SPACE AT ALL COLUMN LOCATIONS TO CREATE A CONTINUOUS LOAD PATH TO THE COLUMN AND FOUNDATION BELOW
- PROVIDED BY SIMPSON OR APPROVED EQUAL
- CONFORM TO AFG-01 ACCORDING TO APA SPECIFICATIONS.
- MORE INFORMATION.
- SHEATHING, AND 10d NAILS SHALL BE USED TO FASTEN ALL FLOOR SHEATHING TO SUPPORTING
- BEARING AND/OR SHEAR WALLS, TOP & BOTTOM OF WALLS
- B. PANEL EDGE NAILING "EN": 6 INCHES ON CENTER AT ALL OTHER PLYWOOD PANEL EDGES C. PANEL FIELD NAILING "FN": 12 INCHES ON CENTER AT INTERIOR SUPPORTS IN FIELD OF PANEL
- 16.ALL BOLTS THRU WOOD SHALL BE ASTM A307 AND SHALL HAVE HARDENED WASHERS UNDER
- 17.UNLESS NOTED OTHERWISE, ALL WALL BOTTOM PLATES TO BE ANCHORED TO FOUNDATIONS OR

- 22. VERIFY THE STUD SPACING WITH THE ANCHOR BOLT LAY-OUT. WHERE STUDS INTERFERE WITH
- 23.EXTERIOR WALLS SHALL HAVE DOUBLE 2x TOP PLATES SPLICED WITH A MINIMUM OF 48 INCHES
- MEMBERS SHALL NOT BE LESS THAN THAT SET FORTH IN IBC TABLE 2304.10.1.
- WITH CLIPS TO PROVIDE DIRECT ATTACHMENT TO A HORIZONTAL 9 GAUGE REINFORCING WIRE SPACING NOT EXCEEDING 18 INCHES.

JLB # 21-108

2018 IBC

15 PSF

40 PSF

15 PSF

20 PSF

43 PSF

30 PSF

115 MPH

1.5

0.154

WOOD SHEAR WALLS

EQUIVALENT LATERAL FORCE

1500 PSF (ASSUMED)

NOT PROVIDED

30 INCHES

0.7

1.0

1.0

DESIGN CRITERIA

RISK CATEGORY:

DEAD LOAD:

DEAD LOAD:

LIVE LOAD:

LIVE LOAD:

GOVERNING BUILDING CODE:

GROUND SNOW LOAD, Pg:

THERMAL FACTOR, Ct:

ROOF SNOW LOAD, Pf:

<u>EARTHQUAKE</u>

SOIL SITE CLASS:

DESIGN BASE SHEAR:

SOIL REPORT BY:

SOIL REPORT #:

SOIL REPORT DATE:

SOIL FROST DEPTH:

Sds:

SNOW EXPOSURE FACTOR, Ce:

SNOW IMPORTANCE FACTOR, Is:

SEISMIC IMPORTANCE FACTOR, le:

SEISMIC DESIGN CATEGORY:

ANALYSIS PROCEDURE USED:

BASIC SEISMIC FORCE-RESISTING SYSTEM:

RESPONSE MODIFICATION COEFFICIENT, R:

SEISMIC RESPONSE COEFFICIENT, Cs:

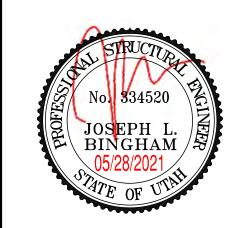
ALLOWABLE SOIL BEARING PRESSURE



PLEASANT VIEW, UT 84414

801-624-9044

JOSEPH.L.BINGHAM@GMAIL.COM



WRIGHT DETACHED GARAGE

529 SHERMAN AVE

SALT LAKE CITY, **UTAH 84105**

GENERAL STRUCTURAL

NOTES

SHEET:

OF

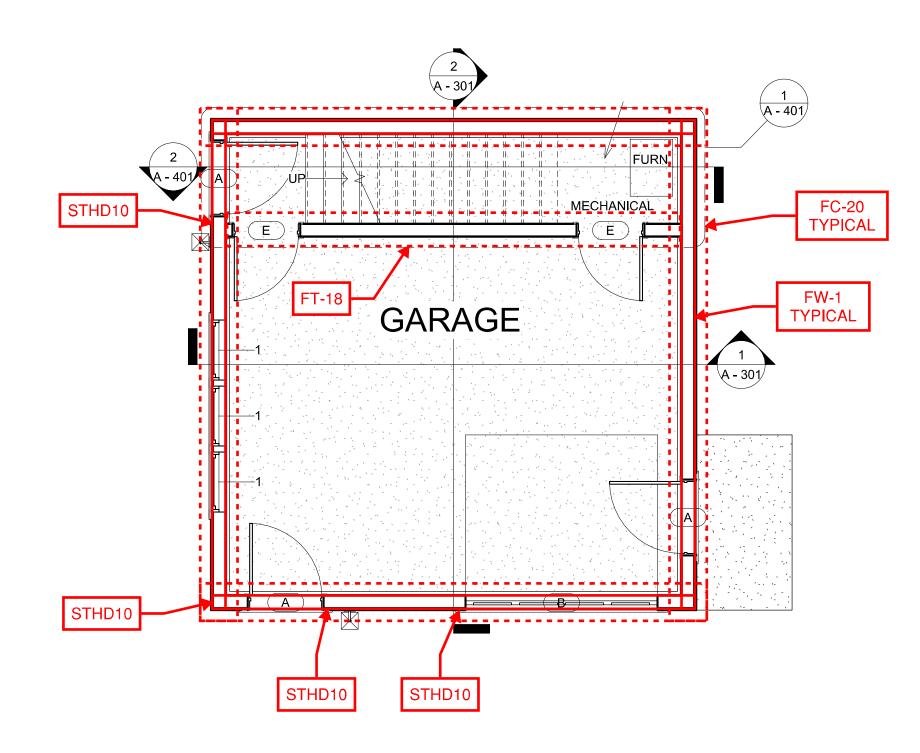
FLOOR BEAM SCHEDULE

FB-1 9-1/2 TJI 210 AT 16" O.C. FB-2 3-1/2x9-1/2 LVL

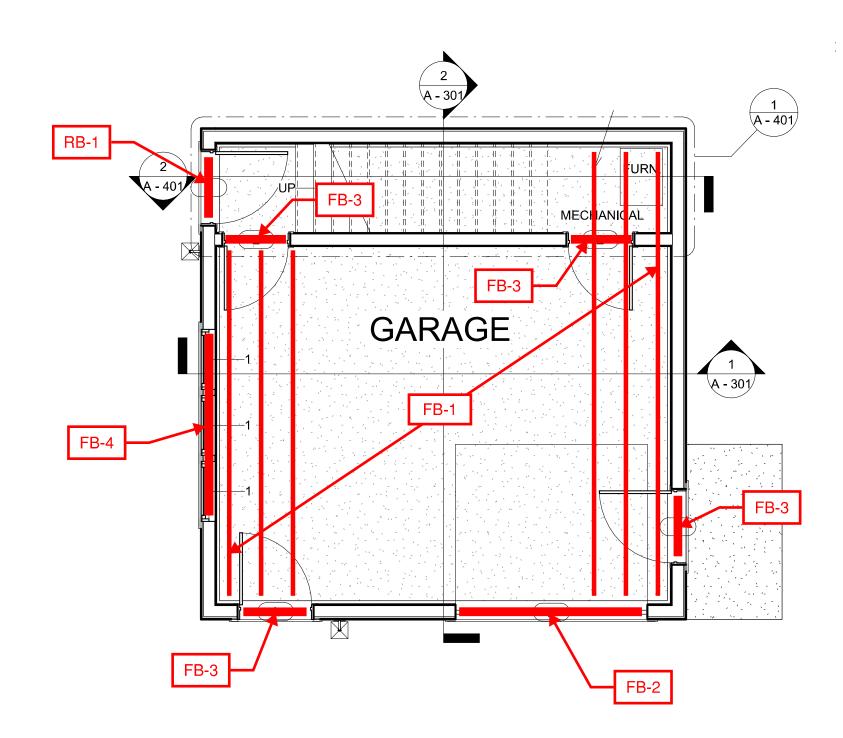
B-3 (2) 2x8 B-4 3-1/2x9-1/2 LVL

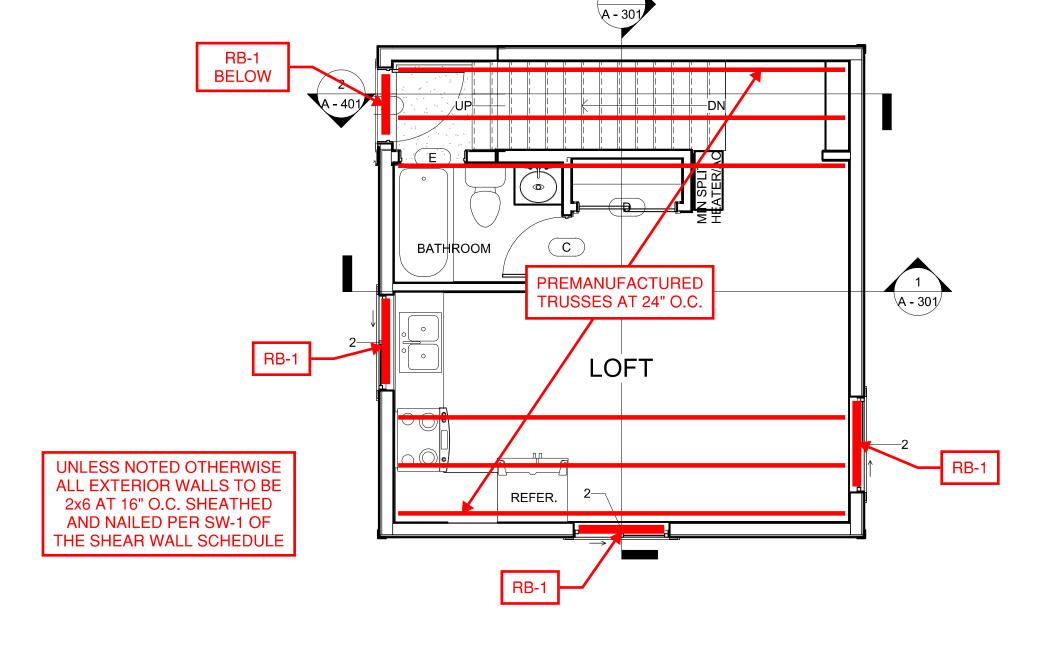
ROOF BEAM SCHEDULE

RB-1 (2) 2x8



FOUNDATION PLAN





FLOOR FRAMING PLAN

ROOF FRAMING PLAN

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WRIGHT DETACHED GARAGE

529 SHERMAN AVE

SALT LAKE CITY, UTAH 84105

FOUNDATION PLAN

FLOOR FRAMING PLAN

ROOF FRAMING PLAN

SHEET:

S2

OF

S4

	MINIMUM NAILING SCHEDULE											
				FAS	STEN	ING						
No.	CONNECTION		NAILI	NG		STAPLES		LOCATION				
		No.	SIZE	SPACING	No.	SIZE	SPACING					
1	JOIST TO SILL OR GIRDER	3	8d	_	3	3"-14 GA.	_	TOENAIL				
2	BRIDGING TO JOIST	2	8d	_	2	3"-14 GA.	_	TOENAIL EA. END				
3	BOTTOM PLATE TO JOIST OR BLOCKIN		16d	16" o.c.	_	3"-14 GA.	12" o.c.	TYP. FACE NAIL				
4	BOTTOM PLATE TO JOIST OR BLOCKIN AT BRACED WALL PANEL	G ₃	16d	16" o.c.	4	3"-14 GA.	12" o.c.	BRACED WALL PANELS				
5	TOP PLATE TO STUD	2	16d	_	3	3"-14 GA.	_	END NAIL				
6	STUD TO BOTTOM PLATE	4	8d	_	3	3"-14 GA.	_	TOENAIL				
6a	STUD TO BOTTOM PLATE (OPTIONAL)	2	16d	_	3	3"-14 GA.	_	END NAIL				
7	DOUBLE STUDS	_	16d	16" o.c.	_	3"-14 GA.	8" o.c.	FACE NAIL				
8	DOUBLE TOP PLATES	_	16d	16" o.c.	_	3"-14 GA.	12" o.c.	TYP. FACE NAIL				
9	DOUBLE TOP PLATES LAP SPLICES	8	16d	_	12	3"-14 GA.	_	TYP. FACE NAIL				
10	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3	8d	_	3	3"-14 GA.	_	TOENAIL				
11	RIM JOIST TO TOP PLATE	_	8d	16" o.c.	_	3"-14 GA.	16" o.c.	TOENAIL				
12	TOP PLATES, LAPS & INTERSECTIONS	2	16d	_	3	3"-14 GA.	_	FACE NAIL				
13	CONTINUOUS HEADER, TWO PIECES	_	16d	16" o.c.	_	_	_	ALONG EDGE				
14	CEILING JOISTS TO PLATE	3	8d	_	5	3"-14 GA.	_	TOENAIL				
15	CONTINUOUS HEADER TO STUD	4	16d	_	_	_	_	TOENAIL				
16	CEILING JOISTS, LAPS OVER PARTITION	IS3	16d	_	4	3"-14 GA.	_	FACE NAIL				
17	CEILING JOISTS TO PARALLEL RAFTERS	3	16d	_	4	3"-14 GA.	_	FACE NAIL				
18	RAFTER TO PLATE	3	8d	_	3	3"-14 GA.	_	TOENAIL				
19	BUILT-UP CORNER STUDS	_	16d	24" o.c.	_	3"-14 GA.	16" o.c.	FACE NAIL				
20	BUILT-UP GIRDER AND BEAMS	ı	20d	32" o.c.	-	3"-14 GA.	24" o.c.	FACE NAIL @ TOP & BOTTOM, STAGGERED ON OPP. SIDES				
20a	BUILT-UP GIRDER AND BEAMS (OPTIO	NA2L)	20d	_	3	3"-14 GA.	_	FACE NAIL AT ENDS AND AT EACH SPLICE				
21	COLLAR TIE TO RAFTER	3	10d	_	4	3"-14 GA.	_	FACE NAIL				
22	JACK RAFTER TO HIP	3	10d	_	4	3"-14 GA.	_	TOENAIL				
22a	JACK RAFTER TO HIP (OPTIONAL)	2	16d	_	3	3"-14 GA.	_	FACE NAIL				
23	ROOF RAFTER TO 2x RIDGE BEAM	2	16d	_	3	3"-14 GA.	_	TOENAIL OR FACE NAIL				
24	JOIST TO RIM JOIST	3	16d	_	5	3"-14 GA.		FACE NAIL				
25	LEDGER STRIP	3	16d	_	4	3"-14 GA.	_	FACE NAIL				
NC	OTES:											

COMMON OR BOX NAILS ARE PERMITTED TO BE USED, EXCEPT WHERE OTHERWISE NOTED.

TABLE OF EQUIVALENT FASTENERS STAPLES, NAILS AND T-NAILS

(VALID FOR LATERAL LOAD ONLY)

STAPLES

2-1/2"

3-1/2"

6-1/2"

10"

2-1/2"

5-1/2"

EQUIV. SPACING OF APR. FASTENERS

NAILS/T-NAILS

1-1/4"

2-1/2"

3-1/2"

6-1/2"

9-1/2"

2-1/2"

5-1/2"

6-1/2"

8-1/2"

131

1/2"

7-1/2"

12"

14-1/2"

10**"**

3-1/2"

8-1/2"

STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16 INCH. 3. SEE IBC TABLE 2304.9.1 FOR ADDITIONAL NAILING REQUIREMENTS.

16

3-1/2"

6-1/2"

8-1/2"

2-1/2"

5-1/2"

6-1/2"

3-1/2"

4-1/2"

5-1/2"

6-1/2"

GAUGE

PENETRATION

10"

COMMON

SPACING

6d AT

8d AT

10d AT

NAIL

FOUNDATION	WALL	SCHEDULE

	MAX	WALL	VE	RTICAL	HORI	ZONTAL				
MARK		THICKNESS	R	EINF.	REINF.					
	TEIGHT	I HICKNESS	SIZE	SPACING	SIZE	SPACING				
FW-1	8'-0"	8"	#4	18" O.C.	#4	18" O.C.				
FW-2	9'-0"	8"	#4	15" O.C.	#4	18" O.C.				
FW-3	10'-0"	8"	#5	18" O.C.	#4	18" O.C.				
FW-4	12'-0"	10"	#5	12" O.C.	#4	18" O.C.				

OVERBUILD FRAMING SCHEDULE														
@ 24"	ALLOWABLE SPAN PER ROOF SNOW LOAD													
O.C.	≤30 PSF	40 PSF	50 PSF	80 PSF	100 PSF	150 PSF								
2×4	5'-6"	5'-0"	4'-6"	4'-0"	3'-6"	3'-0"								
2x6	8'-0"	7'-0"	6'-6"	5'-6"	5'-0"	4'-6"								
2x8	10'-0"	9'-0"	8'-6"	7'-0"	6'-6"	5'-6"								
2x10	12'-6"	11'-6"	10'-6"	9'-0"	8'-0"	6'-6"								
11-7/8" TJI 210	16'-6"	15'-0"	13'-6"	10'-0"	8'-0"	5'-6"								
<u>NOTES:</u> 1. ROOF														

SNOW LOADS ABOVE 150PSF SHALL BE REVIEWED BY THE ENGINEER.

NOTE: PENETRATION IS THE DEPTH OF EMBEDMENT OF THE STAPLE OR NAIL INTO THE MAIN MEMBER REQUIRED TO ATTAIN ITS FULL CAPACITY (SHEAR VALUE) FOR LATERAL LOADING.

6-1/2"

9-1/2"

9-1/2"

14-1/2"

SIMP	SON	НО	HOLDOWN							
SCHEDULE										
LDOWN	MIN.	POST	ANCHOR							

HOLDOWN	MIN. POST	ANCHOR
LSTHD8	3"	-
STHD10	3"	-
STHD14	3"	1
HD5B	3"	SB5/8x24
HD7B	3"	SB7/8x24
HD9B	4-1/2"	SB7/8x24
HD12	4-1/2"	SB1x30
MST37	3"	_
MST48	3"	1
MST60	3"	_
MST72	3"	_
(2) MST60	6"	_
(2) MST72	6"	_

HOLDOWN	MIN. POST	ANCHOR				
.STHD8	3"	_				
STHD10	3"	-				
STHD14	3"	_				
ID5B	3"	SB5/8x24				
ID7B	3"	SB7/8x24				
ID9B	4-1/2"	SB7/8x24				
1D12	4-1/2"	SB1x30				
IST37	3"	ı				
IST48	3"	-				
IST60	3"	ı				
IST72	3"	1				
2) MST60	6"	ı				
2) MST72	6"	-				

SHEAR WALL SCHEDULE

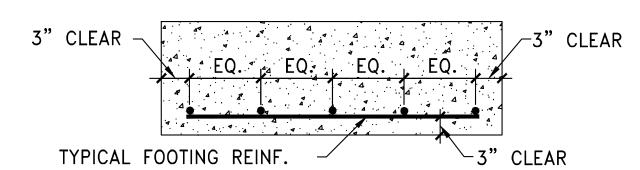
SYM.	SHEATHING		NAILING ³					STU	DS 4		MIN.10		ANCHOR ¹¹	ANCHOR																									
	1								1		1		1												EDGE		FIELD		SHEAR		BOLT	BC				C	COMME	ENTS	
	THICK.	CK. TYPE '	SIZE	SPA	CING	SIZE	SPA	CING	SIZE	SIZE	SPA	CING	5112	TIEAR BOET	SPACING																								
SW-1	7/16"	OSB	8d	6"	0.C.	8d	12"	0.C.	2x	2x	16"	0.C.	240 PLF	5	5/8"øx10"	32"	O.C.	_																					
SW-2	7/16"	OSB	8d	4"	0.C.	8d	12"	0.C.	2x	2x	16"	0.C.	350 PLF	• 5	5/8"øx10"	32"	O.C.	_																					
SW-3	7/16"	OSB	8d	3"	0.C.	8d	12"	0.C.	3x6	2x	16"	0.C.	450 PLF	• 5	5/8"øx10"	16"	O.C.	_																					
SW-4	7/16"	OSB	8d	2"	0.C.	8d	12"	0.C.	3x6	2x	16"	0.C.	585 PLF	. 5	5/8"øx10"	16"	0.C.	_																					
SW-5	7/16"	OSB	8d	4"	0.C.	8d	12"	0.C.	3x ⁷	2x	16"	0.C.	700 PLF	• 3	3/4"øx12"	16"	O.C.	SHEATH	вотн	SIDES.	3x SII	L PL	REQ																
SW-6	7/16"	OSB	8d	3"	O.C.	8d	12"	0.C.	3x ⁷	2x	16"	0.C.	900 PLF	- 3	3/4"øx12"	16"	O.C.	SHEATH	вотн	SIDES.	3x SII	L PL	REQ																
												_											_																

- 1. OSB SHEATHING SHALL BE TYPE C-D, C-C STRUCTURAL GRADE. ALL OTHER GRADES SHALL BE COVERED IN IBC SECTION 2303.1.4.
- 2. SHEATHING MAY BE INSTALLED ON EITHER SIDE OF WALL INDICATED, U.N.O.
- 3. SEE TABLE OF EQUIVALENT FASTENERS FOR APPROVED SUBSTITUTIONS.
- 4. STUDS SHALL BE DOUGLAS FIR-LARCH OR SOUTHERN PINE.
- 5. FASTENERS FOR PRESSURE PRESERVATIVE WOOD SHALL BE HOT-DIPPED, GALVANIZED STEEL OR STAINLESS STEEL.
- 6. (2) 2x NOMINAL STUDS MAY BE USED IN PLACE OF 3x NOMINAL STUDS PROVIDED
- THE (2) 2x NOMINAL STUDS ARE NAILED TOGETHER WITH 16d NAILS AT 3" O.C. 7. STUD MAY BE A 2x MINIMAL MEMBER PROVIDED PANEL JOINTS ON BOTH SIDES OF THE WALL ARE STAGGERED AND DO NOT SHARE THE SAME 2x NOMINAL STUD.
- 8. ALL HOLDOWNS MUST BE ANCHORED AS PER SIMPSON SPECS THROUGH A MIN. OF DOUBLE FULL LENGTH 2x STUDS. HOLDOWNS CAN NOT BE ANCHORED TO TRIMMERS OR CRIPPLES.
- 9. SIMPSON SET-XP ADHESIVE SYSTEM MAY BE USED AS PER MANUFACTURER'S SPECS TO ANCHOR BOLTS IN CONCRETE. 10. VALUES SHOWN ARE TO BE USED WHEN SEISMIC GOVERNS THE DESIGN AND MAY BE INCREASED 40% IF WIND GOVERNS.
- 11. USE "J" BOLTS W/ 3"x3"x1/4" STEEL PLATE WASHER AT EACH BOLT. PROVIDE A ROUND CUT WASHER BETWEEN THE NUT OF THE ANCHOR BOLT AND THE PLATE WASHER. INCREASE LENGTH OF BOLT BY 2" IF DOUBLE SILL PLATE IS

FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICK		THWISE INF.	CRO	SSWISE	REINF.	
				NO.	SIZE	NO.	SIZE	SPACING	NOTES
FC-20	20"	CONT.	10"	2	#4	_	_	_	REBAR CONTINUOUS
FT-18	18"	CONT.	10"	2	#4	_	_	_	THICKENED SLAB, REBAR CONTINUOUS
FT-24	24"	CONT.	10"	3	#4	_	_	_	THICKENED SLAB, REBAR CONTINUOUS
F-24	24"	24"	10"	3	#4	3	#4	EQ.	_
F-30	30"	30"	10"	3	#4	3	#4	EQ.	_
F-36	36"	36"	10"	4	#4	4	#4	EQ.	_
F-42	42"	42"	12"	4	#5	4	# 5	EQ.	_
F-48	48"	48"	12"	5	# 5	5	# 5	EQ.	_
F-54	54"	54"	12"	5	#5	5	# 5	EQ.	_
F-60	60"	60"	12"	6	# 5	6	# 5	EQ.	_
F-66	66"	66"	12"	6	# 5	6	# 5	EQ.	_
F-72	72"	72"	12"	7	# 5	7	# 5	EQ.	_

TYPICAL FOOTING SECTION





JOSEPH L. BINGHAM, S.E. 3162 N 1030 W PLEASANT VIEW, UT 84414 801-624-9044 JOSEPH.L.BINGHAM@GMAIL.COM



WRIGHT DETACHED GARAGE

529 SHERMAN AVE

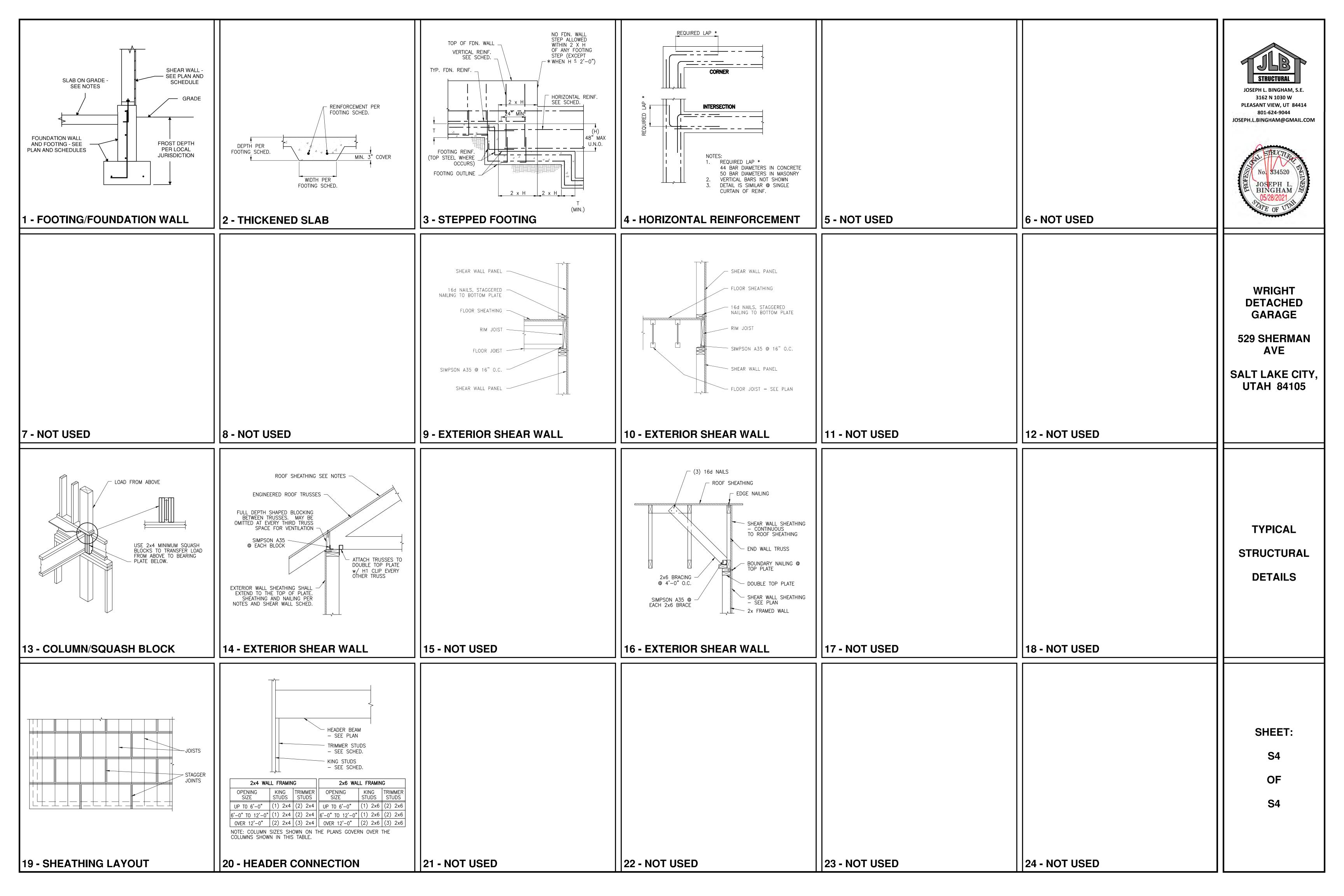
SALT LAKE CITY, **UTAH 84105**

STRUCTURAL

SCHEDULES

SHEET:

OF



Conditional Use Application

Angela Wright – 529 E Sherman Ave, Salt Lake City UT 84105

Tax ID Parcel Number: 16-07-478-020-0000

1. Project Description (please attach additional sheets electronically) Written description of your proposal

This project replaces the existing garage with a new garage with a 405 sq. ft. ADU unit on the second floor. The existing garage is in need of replacement and the ADU will allow for a studio apartment space. The owner, Angela Wright, resides and will continue to reside in the main home on the property.

This project follows all of the ADU guidelines and should not need any exceptions. The height of the new building (19'2") matches the height of the home and has a square footage that is 50% of the size (405 sq ft) of the home. The existing garage sits ~1 foot from the back and side property line, the new garage/ADU is set with an 11 foot setback from the back property line and a 4 foot setback from east side property line and complies with the front and side yard setbacks. The new building footprint is less than 50% of the rear yard. There is more than one parking slot available via on-street parking and on the driveway.

These designs meet all building and fire code requirements.

- 2. Conditional Use Information Section 21A.54.080 (please attach additional sheet)
 - If applicable, what is the anticipated operating/delivery hours associated with the proposed use: Not Applicable
 - What are the land uses adjacent to the property (abutting and across-the-street properties): This property is surrounded by residential homes on both side yards and the back property line. The homes are all more than 10 feet from any residential building including the one on the property.
 - How many employees are expected to work on-site during the highest shift: Not Applicable
 - If applicable, how many seats will be provided as part of the conditional use: Not Applicable
 - Have you discussed the project with nearby property owners? Yes
 If so, what responses have you received? All of the property owners approve of the project.
- 3. Minimum Plan Requirements A digital (PDF) copy of each plan and elevation drawing: Attached
- 4. Site Plan (see Site Plan Requirements flyer for further details): Attached
- **5. Elevation Drawing (if applicable)**
 - Detailed elevation, sections and profile drawings with dimensions drawn to scale: Attached
 - Type of construction and list the primary exterior construction materials: Attached
 - Number, size, and type of dwelling units in each building, and the overall dwelling unit density: One garage/ADU; details in attached plans



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PLEASANT VIEW, UT 84414
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JOSEPH.L.BINGHAM@GMAIL.COM

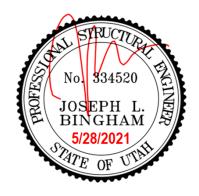
STRUCTURAL CALCULATIONS

FOR

WRIGHT DETACHED GARAGE

529 SHERMAN AVE SALT LAKE CITY, UT 84105

JLB PROJECT NUMBER: 21-108



GOVERNING BUILDING CODE: 2018 IBC RISK CATEGORY: Ш **FLOOR** DEAD LOAD: 15 PSF LIVE LOAD: 40 PSF ROOF DEAD LOAD: 15 PSF LIVE LOAD: 20 PSF 43 PSF GROUND SNOW LOAD, Pg: SNOW EXPOSURE FACTOR, Ce: 0.7 SNOW IMPORTANCE FACTOR, Is: 1.0 THERMAL FACTOR, Ct: 1.0 ROOF SNOW LOAD, Pf: 30 PSF WIND ULTIMATE DESIGN WIND SPEED, Vult: 115 MPH WIND EXPOSURE: С EARTHQUAKE SEISMIC IMPORTANCE FACTOR, le: 1.0 1.5 Ss: S1: 0.6 SOIL SITE CLASS: D Sds: 1 Sd1: 0.6 SEISMIC DESIGN CATEGORY: D BASIC SEISMIC FORCE-RESISTING SYSTEM: WOOD SHEAR WALLS **DESIGN BASE SHEAR:** Cs*W SEISMIC RESPONSE COEFFICIENT, Cs: 0.154 RESPONSE MODIFICATION COEFFICIENT, R: ANALYSIS PROCEDURE USED: **EQUIVALENT LATERAL FORCE**

ALLOWABLE SOIL BEARING PRESSURE:

SOIL REPORT BY:

SOIL REPORT DATE:

SOIL FROST DEPTH:

SOIL REPORT #:

JLB # 21-108

1500 PSF (ASSUMED)

NOT PROVIDED

30 INCHES

N/A

N/A

DESIGN CRITERIA

Seismic Calculations

Earthquake Loads-Site Ground Motion

$$I = 1
R = 6.5
Ss = 1.5
S1 = 0.6$$

D

$$h_n = 13.5$$
 ft. (Building Height)
 $C_t = 0.02$
 $x = 0.75$

$$F_a = 1.00$$

 $S_{MS} = 1.500$
 $S_{DS} = 1.000$

Site Class=

$$S_{MS} = F_a * S_S$$

$$S_{DS} = 2 * S_{MS} / 3$$

$$F_v = 1.50$$

 $S_{M1} = 0.900$
 $S_{D1} = 0.600$

$$S_{M1} = F_v * S_1$$

 $S_{D1} = 2 * S_{M1} / 3$

Earthquake Loads-Minimum Design Lateral Force

$$C_s$$
= 0.1538
 C_s = 0.6553
 C_s = 0.044

USE 0.044

ASD Load Factor = 0.7 Rho = 1.3

C_s= 0.1538 V=C_S*W

V = ASD Load Factor*Rho*Cs*W = 0.14 *W

Dead Load Effect

$$0.2*S_{DS}=0.200$$

 $(+/-) 0.2*S_{DS}*D$

Seismic Design Category

Wind Calculations

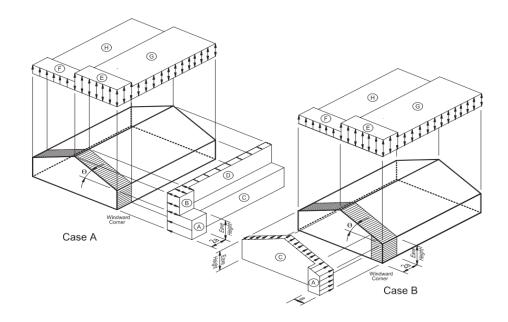
Risk Category =	II				min	max total equiv	
Basic Wind Speed V =	115 mph	Case 1A:	area (sf)	force (lb)	force (lb)	force (lb) press (ps	f)
Exposue Category =	С	Area A =	48	1133	768	6288 16.5	
Topographic Factor Kzt =	1	Area B =	66	1063	528		
ASD Load Factor =	0.6	Area C =	112	2106	1792		
		Area D =	154	1987	1232		
Side-to-Side Dim =	20 ft	Case 1B:					
Front-to-Back Dim =	20 ft	Area A =	41	851	648	4320 16.0	
Roof Angle =	45 degrees	Area C =	230	3190	3672		
Ridge Height =	19 ft						
Eave Height =	<mark>8</mark> ft	Case 2A:					
Mean Roof Height =	13.5 ft	Area A =	48	1133	768	6288 16.5	
		Area B =	66	1063	528		
Ht & Exposure Coeff λ =	1.21	Area C =	112	2106	1792		
10% of least horiz dim =	2 ft	Area D =	154	1987	1232		
40% of mean roof ht =	5.4 ft	Case 2B:					
4% of least horiz dim =	0.8 ft	Area A =	41	0	648	4320 16.0	
Zone a =	3 ft	Area C =	230	0	3672		

Maximum Equivalent Pressure ps30 = 16.5 psf

Design Pressure ps = λ*Kzt*PS30*ASD Load Factor = 12.0 psf

MAIN WIND FORCE RESISTING SYSTEM, p_{s30} (Exposure B at h=30 ft., Kzt =1.0, with lw = 1.0) (psf)

		550				-						
BASIC							ZO	NES				
WIND	ROOF											
SPEED	ANGLE	LOAD		Horizonta	Pressures			Vertical I	Pressures		Over	hangs
(mph)	(degrees)	CASE	Α	В	С	D	E	F	G	Н	E _{OH}	G _{OH}
115	45	1	23.6	16.1	18.8	12.9	1.8	-14.3	0.6	-12.3	-8.3	-9.5
115	43	2	23.6	16.1	18.8	12.9	9.1	-7.1	7.9	-5.0	-8.3	-9.5
	0	1	21.0	-10.9	13.9	-6.5	-25.2	-14.3	-17.5	-11.1	-35.3	-27.6
	0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0



LATERAL ANALYSIS

Side-to-Side Dim:	20	ft		
Front-to-Back Dim:	20	ft	Height	
Roof Trib:	12	ft	13.5	ft
Floor Trib:		ft		ft
Floor Trib:		ft		ft
Floor Trib:		ft		ft
Roof Seismic DL:	10	psf		
Floor Seismic DL:		psf		
Wall Seismic DL:	10	psf		

Seismic:	V =	0.14	*W			
F-front-to-back:	<u>V</u>		<u>W</u>	<u>WxHx</u>	Cvx	<u>Fx</u>
Roof	1232	lb	8800	118800	1.00	1232
Floor	0	lb	0	0	0.00	0
Floor	0	lb	0	0	0.00	0
Floor	0	lb	0	0	0.00	0
	1232		8800	118800		1232
F-side-to-side:						
Roof	1232	lb	8800	118800	1.00	1232
Floor	0	lb	0	0	0.00	0
Floor	0	lb	0	0	0.00	0
Floor	0	lb	0	0	0.00	0
	1232	•	8800	118800	•	1232

Wind: P = 12.01 psf

F-front-to-back:

 Roof
 2883 lb

 Floor
 0 lb

 Floor
 0 lb

 Floor
 0 lb

F-side-to-side:

 Roof
 2883 lb

 Floor
 0 lb

 Floor
 0 lb

 Floor
 0 lb

Use for Design:

F-front-to-back:

1.4	
1	
1	
1	
	1 1 1

F-side-to-side:

SW-6

900

-side-to-side.			
Roof	2883 lb	Wind Governs	1.4
Floor	0 lb		1
Floor	0 lb		1
Floor	0 lb		1

1260

		Hold Down capacities (lb):		
seismic	wind	LSTHD8 1610	MST37	1725
240	336	STHD10 2175	MST48	3215
350	490	STHD14 3500	MST60	5240
450	630	HD5B 4505	MST72	6730
585	819	HD7B 6645	(2) MST60	10480
700	980	HD9B 9920	(2) MST72	13460
	240 350 450 585	240 336 350 490 450 630 585 819	seismic wind LSTHD8 1610 240 336 STHD10 2175 350 490 STHD14 3500 450 630 HD5B 4505 585 819 HD7B 6645	seismic wind LSTHD8 1610 MST37 240 336 STHD10 2175 MST48 350 490 STHD14 3500 MST60 450 630 HD5B 4505 MST72 585 819 HD7B 6645 (2) MST60

HD12

12665

SHEAR WALLS

Resisting DL: 10 psf

ROOF

ROOF					1	T				
Front-to-Back SW:	Line 1	Line 2	Line 3	Line 4	Line 5	Line 6	Line 7	Line 8	Line 9	Line 10
SW Height (ft):	8	8								
SW Trib (ft):	10	10								
SW Forces:	1442	1442	0	0	0	0	0	0	0	0
Total SW Length (ft):	8	15	0	0	0	0	0	0	0	0
Shear (lb/ft):	180	96	0	0	0	0	0	0	0	0
Uplift (lb):	1442	769	0	0	0	0	0	0	0	0
· · · · ·										
SW Length (ft):	16	15								
Sum Perf Sgmts (ft):	8	15								
Area Openings (sf):	32	13								
Co:	0.80	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SW Designation:			1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
_	SW-1	SW-1								
Trib DL (ft):										
2/3 resisting DL (lb):	0	0	0	0	0	0	0	0	0	0
Net Uplift (lb):	1802	769	0	0	0	0	0	0	0	0
Hold Down:	STHD10	NONE								
SW Length (ft):										
Sum Perf Sgmts (ft):										
Area Openings (sf):										
Co:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SW Designation:										
Trib DL (ft):										
2/3 resisting DL (lb):	0	0	0	0	0	0	0	0	0	0
Net Uplift (lb):	1442	769	0	0	0	0	0	0	0	0
Hold Down:	1442	703	O	Ü			O	O	O	O
Hold Down.										
CALL an eth (ft).										
SW Length (ft):										
Sum Perf Sgmts (ft):										
Area Openings (sf):										
Co:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SW Designation:										
Trib DL (ft):										
2/3 resisting DL (lb):	0	0	0	0	0	0	0	0	0	0
Net Uplift (lb):	1442	769	0	0	0	0	0	0	0	0
Hold Down:										
SW Length (ft):										
Sum Perf Sgmts (ft):										
Area Openings (sf):										
Co:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SW Designation:										
Trib DL (ft):										
2/3 resisting DL (lb):	0	0	0	0	0	0	0	0	0	0
	1	769	0		0	0			0	0
Net Uplift (lb):	1442	769	U	0	U	U	0	0	U	U
Hold Down:										
C1444										
SW Length (ft):										
Sum Perf Sgmts (ft):										
Area Openings (sf):										
Co:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SW Designation:										
Trib DL (ft):										
2/3 resisting DL (lb):	0	0	0	0	0	0	0	0	0	0
Net Uplift (lb):	1442	769	0	0	0	0	0	0	0	0
Hold Down:										
				l	L	1				

ROOF						1		1		
Side-to-Side SW:	Line A	Line B	Line C	Line D	Line E	Line F	Line G	Line H	Line J	Line K
SW Height (ft):	8	8								
SW Trib (ft):	10	10								
SW Forces:	1442	1442	0	0	0	0	0	0	0	0
Total SW Length (ft):	6	20	0	0	0	0	0	0	0	0
Shear (lb/ft):	240	72	0	0	0	0	0	0	0	0
Uplift (lb):	1922	577	0	0	0	0	0	0	0	0
. , ,										
SW Length (ft):	6	20								
Sum Perf Sgmts (ft):	6	20								
Area Openings (sf):	Ŭ	20								
Co:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SW Designation:	SW-1	SW-1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Trib DL (ft):	344-1	344-1								
	0	0	0	0	0	0	0	0	0	0
2/3 resisting DL (lb):	0	0			0	0	0	0	0	
Net Uplift (lb):	1922	577	0	0	0	0	0	0	0	0
Hold Down:	STHD10	NONE								
SW Length (ft):										
Sum Perf Sgmts (ft):										
Area Openings (sf):										
Co:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SW Designation:										
Trib DL (ft):										
2/3 resisting DL (lb):	0	0	0	0	0	0	0	0	0	0
Net Uplift (lb):	1922	577	0	0	0	0	0	0	0	0
Hold Down:										
SW Length (ft):										
Sum Perf Sgmts (ft):										
Area Openings (sf):										
Co:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SW Designation:										
Trib DL (ft):										
2/3 resisting DL (lb):	0	0	0	0	0	0	0	0	0	0
Net Uplift (lb):	1922	577	0	0	0	0	0	0	0	0
Hold Down:	1322	3//	O	O	0		0		U	U
Hold Dowll.										
SW Length (ft):										
Sum Perf Sgmts (ft):										
Area Openings (sf):	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Co:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SW Designation:										
Trib DL (ft):				_						
2/3 resisting DL (lb):	0	0	0	0	0	0	0	0	0	0
Net Uplift (lb):	1922	577	0	0	0	0	0	0	0	0
Hold Down:										
SW Length (ft):										
Sum Perf Sgmts (ft):										
Area Openings (sf):										
Co:	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SW Designation:										
Trib DL (ft):										
2/3 resisting DL (lb):	0	0	0	0	0	0	0	0	0	0
Net Uplift (lb):	1922	577	0	0	0	0	0	0	0	0
Hold Down:										
					L	L	L	l		

ROOF FRAMING FLOOR FRAMING

 Roof DL:
 15 psf
 Floor DL:
 15 psf

 Roof LL:
 30 psf
 Floor LL:
 40 psf

		roof		point	equiv				
	span (ft)	trib (ft)		load (lb)	load (plf)	reaction	selection	post	footing
RB-1	4	12			541.2	1082	(2) 2x8	(1) 2x4	10
RB-2					0	0		(1) 2x4	0
RB-3					0	0		(1) 2x4	0
RB-4					0	0		(1) 2x4	0
RB-5					0	0		(1) 2x4	0
RB-6					0	0		(1) 2x4	0
RB-7					0	0		(1) 2x4	0
RB-8					0	0		(1) 2x4	0
RB-9					0	0		(1) 2x4	0
RB-10					0	0		(1) 2x4	0
RB-11					0	0		(1) 2x4	0
RB-12					0	0		(1) 2x4	0
			_						
		roof	floor	point	equiv				
	span (ft)	trib (ft)	trib (ft)	load (lb)	load (plf)	reaction	selection	post	footing
FB-1	15						_		
FB-2	1		1.33		73.15	549	9-1/2 TJI 210	(1) 2x4	7
	8	4	8		620.4	2482	3-1/2x9-1/2 LVL	(2) 2x4	15
FB-3	3	4	8 10		620.4 730.4	2482 1096	3-1/2x9-1/2 LVL (2) 2x8	(2) 2x4 (1) 2x4	15 10
FB-3 FB-4			8		620.4 730.4 761	2482 1096 3045	3-1/2x9-1/2 LVL	(2) 2x4 (1) 2x4 (2) 2x4	15 10 17
FB-3 FB-4 FB-5	3	4	8 10		620.4 730.4 761 0	2482 1096 3045 0	3-1/2x9-1/2 LVL (2) 2x8	(2) 2x4 (1) 2x4 (2) 2x4 (1) 2x4	15 10 17 0
FB-3 FB-4 FB-5 FB-6	3	4	8 10		620.4 730.4 761 0 0	2482 1096 3045 0	3-1/2x9-1/2 LVL (2) 2x8	(2) 2x4 (1) 2x4 (2) 2x4 (1) 2x4 (1) 2x4	15 10 17 0 0
FB-3 FB-4 FB-5 FB-6 FB-7	3	4	8 10		620.4 730.4 761 0 0	2482 1096 3045 0 0	3-1/2x9-1/2 LVL (2) 2x8	(2) 2x4 (1) 2x4 (2) 2x4 (1) 2x4 (1) 2x4 (1) 2x4	15 10 17 0 0
FB-3 FB-4 FB-5 FB-6 FB-7 FB-8	3	4	8 10		620.4 730.4 761 0 0 0	2482 1096 3045 0 0 0	3-1/2x9-1/2 LVL (2) 2x8	(2) 2x4 (1) 2x4 (2) 2x4 (1) 2x4 (1) 2x4 (1) 2x4 (1) 2x4	15 10 17 0 0 0
FB-3 FB-4 FB-5 FB-6 FB-7 FB-8 FB-9	3	4	8 10		620.4 730.4 761 0 0 0 0	2482 1096 3045 0 0 0	3-1/2x9-1/2 LVL (2) 2x8	(2) 2x4 (1) 2x4 (2) 2x4 (1) 2x4 (1) 2x4 (1) 2x4 (1) 2x4 (1) 2x4	15 10 17 0 0 0 0
FB-3 FB-4 FB-5 FB-6 FB-7 FB-8 FB-9 FB-10	3	4	8 10		620.4 730.4 761 0 0 0 0 0	2482 1096 3045 0 0 0 0 0	3-1/2x9-1/2 LVL (2) 2x8	(2) 2x4 (1) 2x4 (2) 2x4 (1) 2x4 (1) 2x4 (1) 2x4 (1) 2x4 (1) 2x4 (1) 2x4	15 10 17 0 0 0 0 0
FB-3 FB-4 FB-5 FB-6 FB-7 FB-8 FB-9	3	4	8 10		620.4 730.4 761 0 0 0 0	2482 1096 3045 0 0 0 0	3-1/2x9-1/2 LVL (2) 2x8	(2) 2x4 (1) 2x4 (2) 2x4 (1) 2x4 (1) 2x4 (1) 2x4 (1) 2x4 (1) 2x4	15 10 17 0 0 0 0

ATTACHMENT D – ZONING STANDARDS

21A.24.070 – R-1-5,000 ZONING DISTRICT

UNDERLYING ZONING STANDARDS	PROPOSED	COMPLIES ?
MINIMUM LOT AREA: 5,000 square feet	The subject property is approximately 6,216 square feet in size.	Yes
MINIMUM LOT WIDTH: 50 feet	The subject property is approximately 50 feet in width.	Yes
MAXIMUM BUILDING HEIGHT:	The proposed ADU is approximately nineteen feet (19') in height which is the same height as the primary dwelling. ADU structures may be built to the same height as a primary dwelling but cannot exceed twenty four feet (24') in height.	Yes
MINIMUM YARD REQUIREMENTS: • Side Yard: 4 feet • Rear Yard: 4 feet • Distance from residences: 10 feet	The primary dwelling meets the required setbacks and the proposed detached garage/ADU building will be ten feet (10') from the eastern side and rear property lines.	Yes
MAXIMUM BUILDING COVERAGE: 40% of total lot size	The proposed ADU building has a footprint of 405 square feet and the primary dwelling has a footprint of approximately 820 square feet. This is approximately 1,225 square feet or 19.7% of the total lot size.	Yes

21A.40.200 – ACCESSORY DWELLING UNITS:

ADU STANDARDS	PROPOSED	COMPLIES ?
SIZE: ADU footprint shall not exceed 650 square feet.	The proposed footprint of the detached building is 405 square feet.	Yes
1) Accessory building shall comply with underlying bulk, height and yard requirements. 2) Accessory building may not be any larger than 50% of the footprint of the main dwelling.	 The proposed building meets all height and setback requirements. The proposed building is 405 square feet in footprint and the main dwelling has a footprint of approximately 820 square feet, which is 49.4% of the main dwelling. 	Yes

ENTRANCE LOCATIONS: The entrance to an ADU attached to a primary building or structure shall be located: 2) Facing a side or rear property line provided the entrance is located a minimum of ten feet (10') from the side or rear property line.	The proposed entrance to the ADU is located on the western side of the proposed building, which faces the interior of the subject property's backyard.	Yes
REQUIREMENTS FOR WINDOWS: 1) Windows facing the sideor rear property lines within 10' of the property lines must use clerestories, skylights, or obscured glazing. 2) Windows shall be of a similar dimension as those used on the primary dwelling. 3) Windows on the ground floor may be retained if compliant with Building and Fire Codes. Windows on the second floor must be brought into compliance with this section.	1) The proposed building is not located within ten feet (10') of the side or rear property lines; obscured glazing is not required. 2) The windows proposed on the detached building are similar in size and style as those utilized on the primary dwelling. 3) Building review did not express a concern over the windows on the ground floor; all work will be required to meet adopted standards, codes, and ordinances.	Yes
BALCONIES AND DECKS: 1) Shall not exceed 80 square feet in size. 2) Shall not be closer than 10 feet to a side or rear property line, unless adjacent to an alley. 3) No rooftop decks permitted.	No balconies or decks are proposed as part of this ADU request.	N/A
PARKING: Minimum of one parking space on site *This requirement may be waived if there is legal on-street parking along the street frontage of the property OR if the property is within 1/4 mile of a transit stop.	Legal on-street parking is available and the subject property is within a quarter-mile of a bus route. Additionally, the proposed detached garage has space for one off-street parking space and the driveway can supply additional parking space.	Yes

ATTACHMENT E – CONDITIONAL USE STANDARDS

21A.54.080 Standards for Conditional Use

Approval Standards: A conditional use shall be approved unless the planning commission, or in the case of administrative conditional uses, the planning director or designee, concludes that the following standards cannot be met:

1. The use complies with applicable provisions of this title;

Analysis: The proposed use is allowed in the underlying zone. The proposed design of the accessory unit is compliant with the ADU standards set forth in section 21A.40.200.

Finding: The proposed use complies with applicable provisions of this title.

2. The use is compatible, or with conditions of approval can be made compatible, with surrounding uses;

Analysis: The applicants are looking to establish an attached ADU in an established single family neighborhood. ADUs are permitted as conditional uses; the homeowner has proposed the construction of a new detached garage to house the proposed accessory dwelling unit. The lot is deeper than it is wide and the location of the proposed ADU minimizes any anticipated impact on the neighboring homes to the east and west of the subject property.

Finding: The use is compatible with surrounding uses.

3. The use is consistent with applicable adopted city planning policies, documents, and master plans; and

Analysis:

The purpose of accessory dwelling units are to:

- 1) Create new housing units while respecting the appearance and scale of single-family residential development;
- 2) Provide more housing choices in residential districts;
- 3) Allow more efficient use of existing housing stock, public infrastructure, and the embodied energy contained within existing structures;
- 4) Provide housing options for family caregivers, adult children, aging parents, and families seeking smaller households:
- 5) Offer a means for residents, particularly seniors, single parents, and families with grown children, to remain in their homes and neighborhoods, and obtain extra income, security, companionship, and services;
- 6) Broaden the range of affordable housing throughout the City;
- 7) Support sustainability objectives by increasing housing close to jobs, schools, and services, thereby reducing greenhouse gas emissions and fossil fuel consumption;
- 8) Support transit oriented development and reduce auto usage by increasing density near transit; and
- 9) Support the economic viability of historic properties and the City's historic preservation goals by allowing accessory dwellings in historic structures.

The proposal is also consistent with the goals and policies outlined in *Growing SLC: A Five Year Housing Plan* which aims to increase housing options, promote diverse housing stock, and allow for additional units while minimizing neighborhood impacts.

Finding: The proposed use is consistent with applicable adopted city planning policies, documents, and master plans.

4. The anticipated detrimental effects of a proposed use can be mitigated by the imposition of reasonable conditions (refer to Detrimental Impacts Chart below for details).

21a.54.080B Detrimental Effects Determination

In analyzing the anticipated detrimental effects of a proposed use, the Planning Commission shall determine compliance with each of the following:

Criteria	Finding	Rationale
1. This title specifically authorizes the use where it is located	Complies	Accessory Dwelling Units are permitted as conditional uses in the R-1-5,000 Zoning District.
2. The use is consistent with applicable policies set forth in adopted citywide, community, and small area master plans and future land use maps	Complies	The use is permitted as a conditional use in the underlying zoning district and supports the goal of increasing housing options found in <i>Growing Salt Lake</i> . The ADU is not altering the primary dwelling unit and is a residential use in a residential neighborhood.
3. The use is well-suited to the character of the site, and adjacent uses as shown by an analysis of the intensity, size, and scale of the use compared to existing uses in the surrounding area	Complies	The proposed building is clad in similar building materials to those found on the primary dwelling. The homes along the block face vary in height; multiple buildings are taller than the proposed structure including the buildings on the lot directly north of the subject property.
4. The mass, scale, style, design, and architectural detailing of the surrounding structures as they relate to the proposed have been considered	Complies	The proposed building is clad in similar building materials to those found on the primary dwelling. The homes along the block face vary in height; multiple buildings are taller than the proposed structure including the buildings on the lot directly north of the subject property.
5. Access points and driveways are designed to minimize grading of natural topography, direct vehicular traffic onto major streets, and not impede traffic flows	Complies	The proposed building will be sited on an existing driveway and minimal grading is anticipated as part of construction.
6. The internal circulation system is designed to mitigate adverse impacts on adjacent property from motorized, non-motorized, and pedestrian traffic	Complies	The proposed building will be sited on an existing driveway; no additional points of vehicular access will be made available and the new building will have minimal impact on pedestrian, cycle, or vehicular travel.

7. The site is designed to enable access and circulation for pedestrian and bicycles	Complies	The project does not include additional vehicular access points beyond what is already on site; the paved driveway will allow for easy pederstrian and cycle access to the proposed ADU.
8. Access to the site does not unreasonably impact the service level of any abutting or adjacent street	Complies	The proposal does not include an additional access point for vehicles and will not impact the service level of surrounding streets.
9. The location and design of off- street parking complies with applicable standards of this code	Complies	Off-street parking will be provided in the proposed detached garage building and on the existing driveway.
10. Utility capacity is sufficient to support the use at normal service levels	Complies	No concerns have been presented following Public Utility review.
11. The use is appropriately screened, buffered, or separated from adjoining dissimilar uses to mitigate potential use conflicts	Complies	The proposed building is located in the rear yard of the subject property and will be visible from the street from some areas but other structures on the same block face are taller than the proposed building. The proposed use is the same as the uses on the adjacent properties.
12. The use meets City sustainability plans, does not significantly impact the quality of surrounding air and water, encroach into a river or stream, or introduce any hazard or environmental damage to any adjacent property, including cigarette smoke	Complies	The proposed use is similar to the existing uses along the same street and in the same area. No detrimental effects on air quality, noise levels, or environmental quality are expected.
13. The hours of operation and delivery of the use are compatible with surrounding uses	N/A	The proposed accessory dwelling unit is not a commercial business and does not have hours of operation.
14. Signs and lighting are compatible with, and do not negatively impact surrounding uses	N/A	No signage or lighting is proposed beyond average residential lighting fixtures.
15. The proposed use does not undermine preservation of historic resources and structures	N/A	The proposed ADU is not located within a local, state or national historic district. The accessory building is not a historic structure and the establishment of an ADU does not affect any surrounding historic structures.

Finding: In analyzing the anticipated detrimental effects of the proposed use, Staff finds that with the conditions identified in the analysis, the request complies with the criteria listed above.

ATTACHMENT F - PUBLIC PROCESS & COMMENTS

Public Notice, Meetings, Comments

To date, staff has not received any comments from the Liberty Wells Community Council or members of the public regarding this item.

Notice of the public hearing for the proposal included:

- Early notification mailed October 5, 2021.
- Notification letter sent to Liberty Wells Community Council on October 11, 2021.
- Early notification period expired November 26, 2021.
- Public hearing notice mailed on December 31, 2021.
- Public notice posted on City and State websites and Planning Division list serve on December 31, 2021.
- Public hearing notice sign posted on January 2, 2022.

Public Input:

Staff has not received any public comments to date.

ATTACHMENT G – DEPARTMENT REVIEW COMMENTS

Building: "Building code- Project when application for permit to be review as a new Residence/Garage all current Utah applicable coded imposed. Flood and Soils reports may be required. Manuals J, D and S for HVAC required." – Jason Rogers

Fire: No comments. - Edward Itchon

<u>Public Utilities</u>: "No objections to the proposed conditional use. The applicant will need to submit for a building and utility development permit. Connection, inspection, survey and impact fees will apply including the storm drain impact fee." - Jason Draper

Engineering: "No objections." - Scott Weiler

<u>Transportation</u>: "The parking requirement for the single family residence is two off street parking spaces and the parking requirement for the ADU is one additional off street parking space.

- The parking requirement for the single family residence is satisfied by two tandem parking spaces in the driveway behind the front face of the house. The dimensions of the garage do not meet the dimensional standards for a parking space. It appears that there is a wall 15'6" from the garage door; the minimum vehicle projection (length) for a parking space is 17'6" per Table 21A.44.020.
- The parking requirement for the ADU may be waived if (1) Legally located on street parking is available along the street frontage of the subject property; or (2) The subject property is located within one-quarter (1/4) mile of transit stop. The subject property satisfies both criteria for waiving the parking requirement for the ADU, therefore the parking requirement for the ADU may be waived. There are two bus stops on 500 E, one northbound at 1300 S and one southbound just north of Sherman Ave." Michael Barry