

## CODE SUMMARY

### APPLICABLE CODE:

PER CITY

ZONING CLASSIFICATION: R-110

DESIGN LOADS: SEE ENGINEERING

### BUILDING AREAS:

MAIN FLOOR LIVEABLE 1785 SQ.FT.

UPPER FLOOR LIVEABLE 1605 SQ. FT.

BASEMENT AREA 1749 SQ.FT.

BASEMENT FINISHED 1454 SQ.FT.

TOTAL SQ. FT. 5139

FINISHED SQ. FT. 4844

### OTHER AREAS:

GARAGE AREA 900 SQ.FT.

ENTRY PORCH 40 SQ.FT.

REAR PATIO 64 SQ. FT.

ALL WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, COUNTRY, CITY AND UTILITY COMPANY CODES AND REGULATIONS.

## PROJECT INFORMATION

OWNER: Josh and Katelyn Strobel Cockrell

GENERAL CONTRACTOR: Owner Builder

SITE LEGAL DESCRIPTON:

ASSESSOR'S TAX PARCEL NUMBER (A.P.N. 53: 516: 0204)

ZONING CLASSIFICATION: R-110

PROJECT STREET ADDRESS: 4875 N. Vialeto Way, Lehi, UT, 84043

THESE DRAWINGS ARE PART OF A SET OF CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS CONSIST OF ONE OR MORE OF THE FOLLOWING ELEMENTS:

- CONSTRUCTION DRAWINGS
- SPECIFICATIONS
- STRUCTURAL CALCULATIONS
- CONTRACT FORMS & CONDITIONS
- MODIFICATIONS & REVISIONS

CONTRACTORS, SUBCONTRACTORS, AND OTHERS WHO PROVIDE LABOR AND/OR MATERIALS REFERENCING THESE DRAWINGS ARE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL CURRENT CONSTRUCTION DOCUMENTS.

CONTRACTORS, SUBCONTRACTORS, AND OTHERS ARE TO REPORT ANY DISCREPANCIES OR ERRORS TO THE CUSTOM HOME COMPANY, LLC. ANY CHANGES TO THE PROJECT WILL BE VERIFIED WITH THE OWNER AND/OR BUILDER AND REVISIONS MADE. CONTRACTORS ARE NOT TO MAKE ALTERATIONS OF ANY KIND WITHOUT PRIOR WRITTEN CONSENT. DISCREPANCIES NOT REPORTED IMMEDIATELY ARE RESPONSIBILITY OF CONTRACTOR.

CONTRACTORS SHALL NOT SCALE FROM DRAWINGS.

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ANY CHANGE TO THE APPROVED PLANS NEED TO BE SUBMITTED TO AND APPROVED BY THE BUILDING DEPT. BEFORE THE CHANGE IS STARTED.

ALL PAPER WORK INCLUDED IS PART OF THE APPROVED SET OF PLANS

PLAN NO. 4875 N. VIALETO WAY.  
LEHI, UT, LOT 204

TITLE SHEET  
MATERIALS  
INDEX  
PROJECT  
INFO.

A0.1



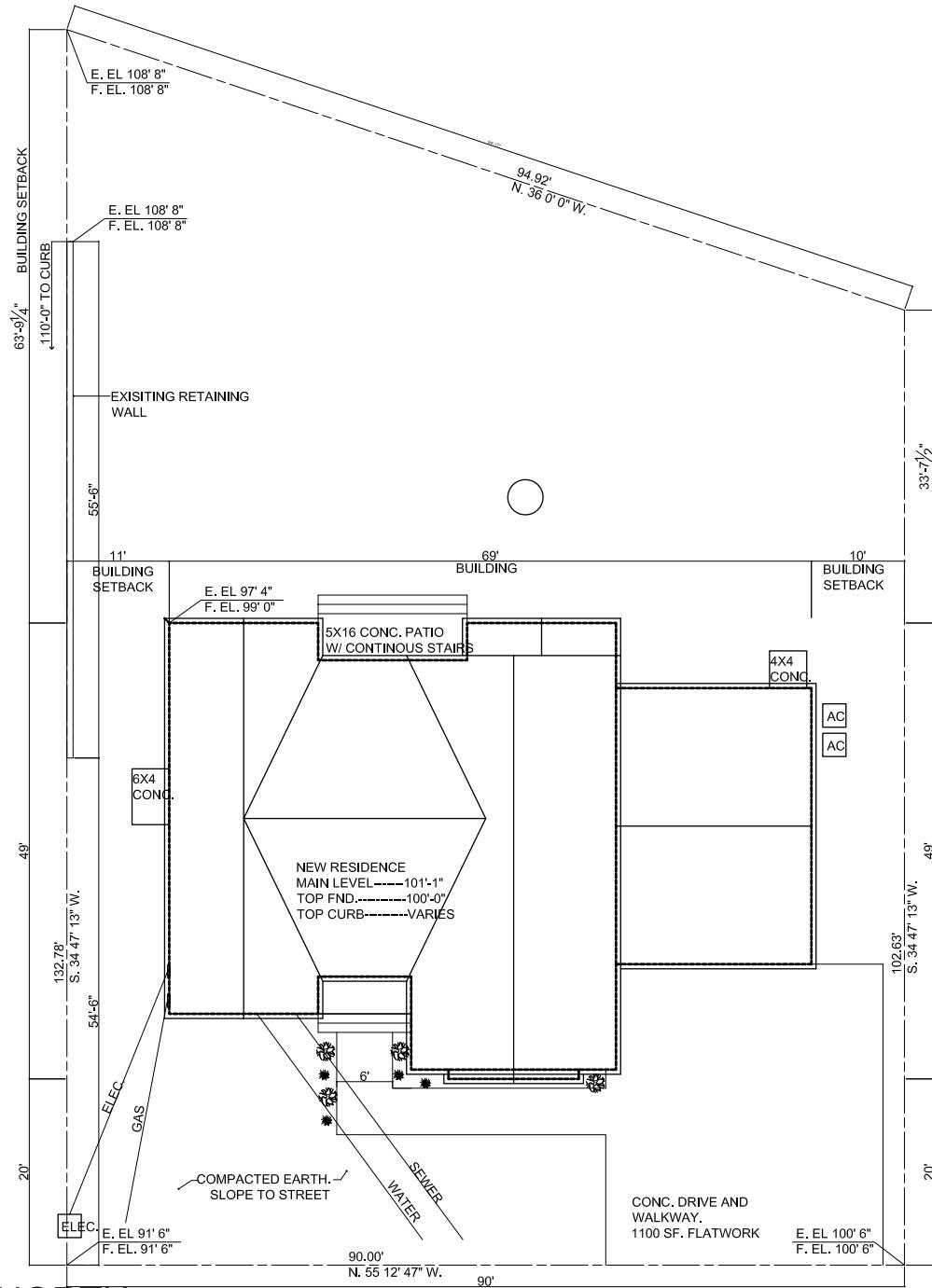
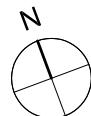
REVIEWED  
ARNIE HUNT  
03/04/2021

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www.icreatables.com  
707-901-SHED(7433)

JOSH AND KATIE

# SITE PLAN-DECK NORTH

4875 N. VIALETT WAY, LEHI, UT.



1" = 10'-0"



REVIEWED  
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03/04/2021

A1.1

PLAN NO. 14x20-1C1D  
  
JOSH

SCALE:  $\frac{1}{64}$  = 1'-0"  
DATE:  
FEB 5, 2021

SITE PLAN

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**FIRESTOP ALL  
PERIMETER WALLS**

**FIRESTOP ALL CHASES AT  
FLOOR AND ATTIC**

**EGRESS LADDER REQUIRED IN BASEMENT  
BEDROOM WINDOW WELLS OVER 44" IN DEPTH**

## ① BASEMENT FLOOR PLAN

$\frac{1}{4} = 1'-0"$  NOTE: SEE ROOF FRAMING PLAN FOR BEAM INFORMATION



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**ARNIE HUNT**  
**03/04/2021**

A2.1

SCALE:  $\frac{1}{4}$ " = 1'-0"

BASEMENT  
FLOOR PLAN

JOSH  
NO. 14x20-1C1D

**JOSH**

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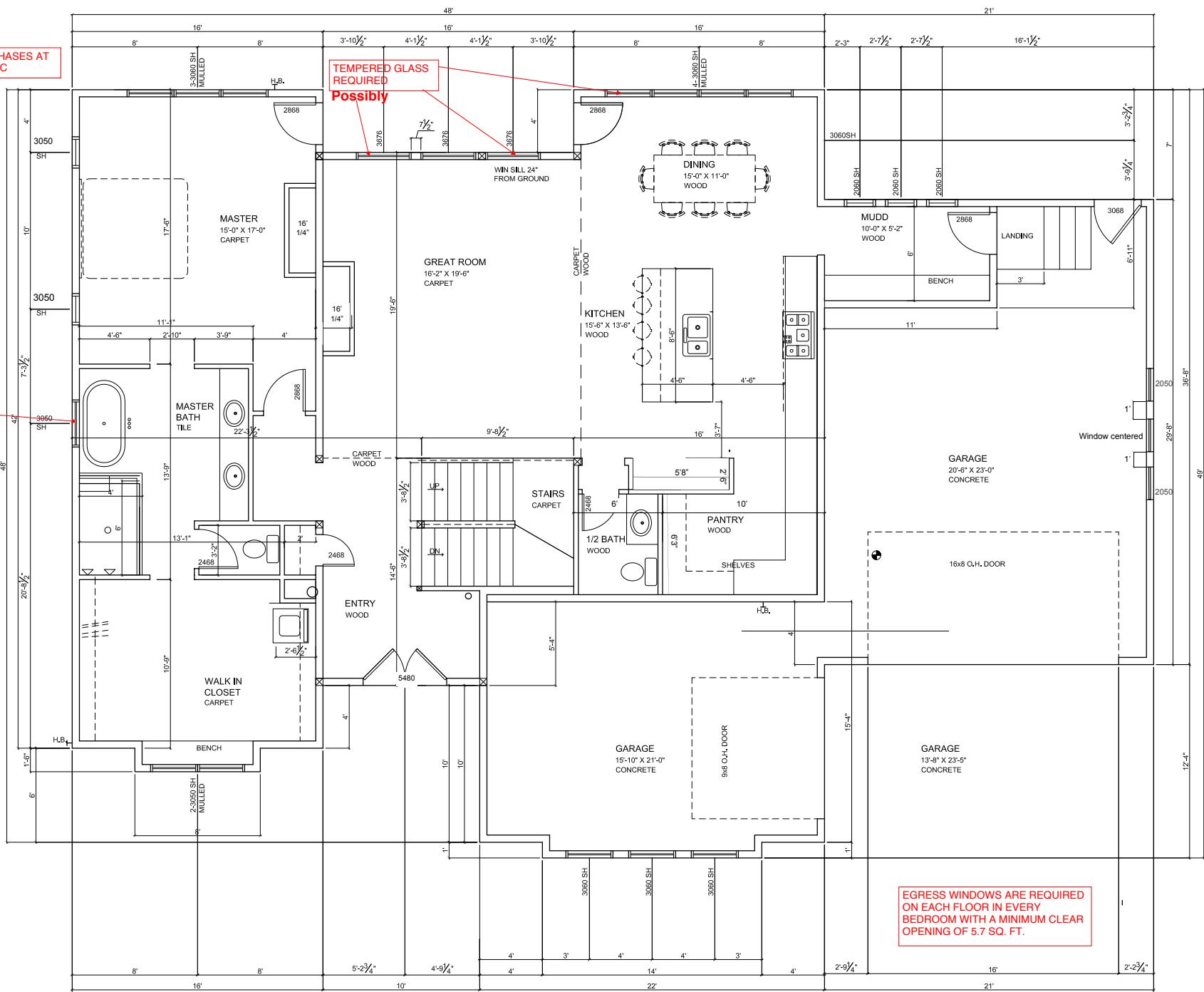
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JOSH

PLAN NO. 14x20-1C1D

SCALE:  $\frac{1}{8}$ " = 1'-0"  
 DATE:

MAIN FLOOR PLAN



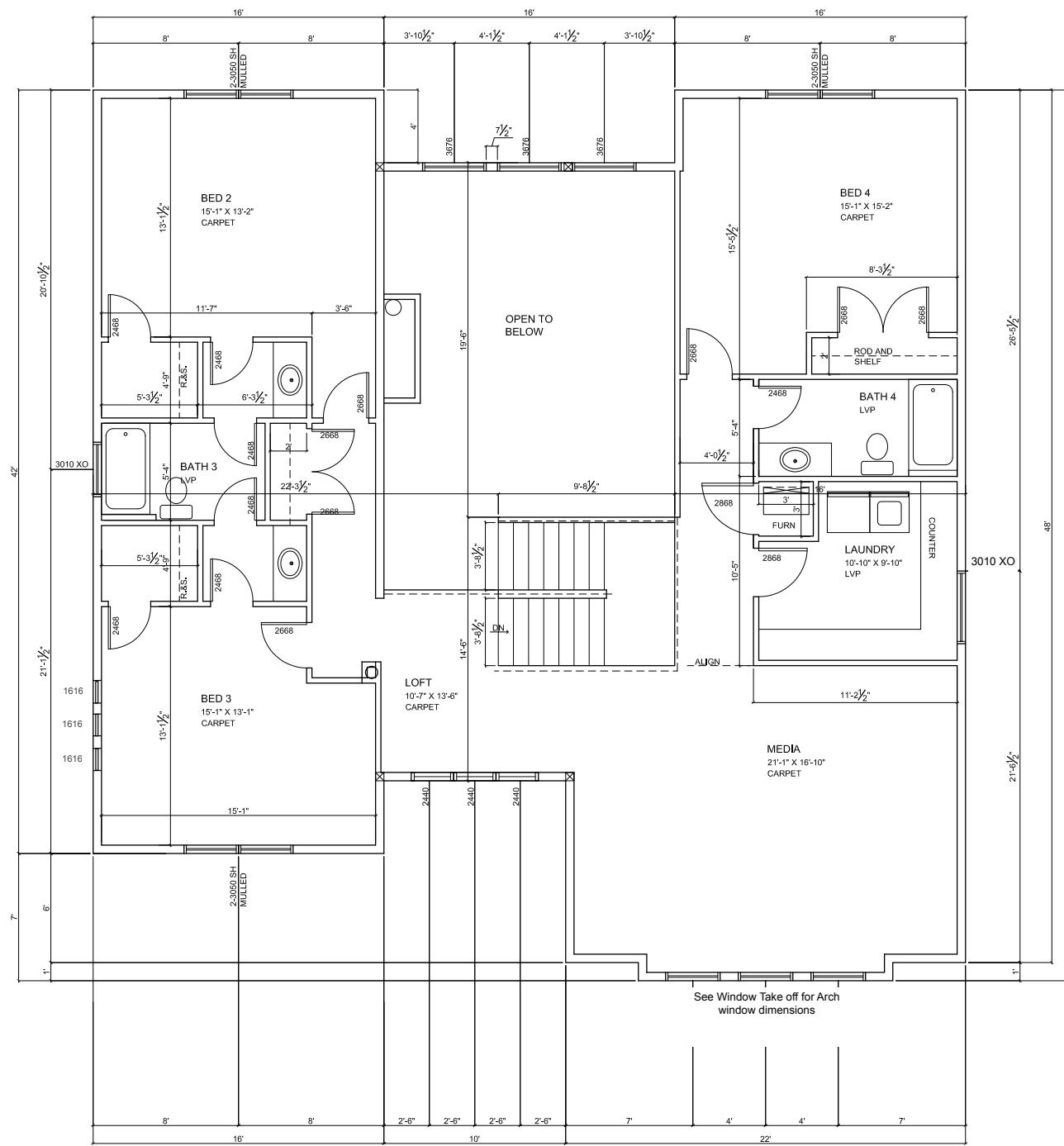
① FLOOR PLAN

$\frac{1}{8}$ " = 1'-0" NOTE: SEE ROOF FRAMING PLAN FOR BEAM INFORMATION

REVIEWED  
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 03/04/2021



A2.2



REVIEWED  
ARNIE HUNT  
03/04/2021

A2.3

PLAN NO. 14x20-1C1D  
**JOSH**

SCALE:  $\frac{1}{8}'' = 1'-0"$   
DATE:

UPPER  
FLOOR PLAN

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**03/04/2021**

### A3.1

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JOSH

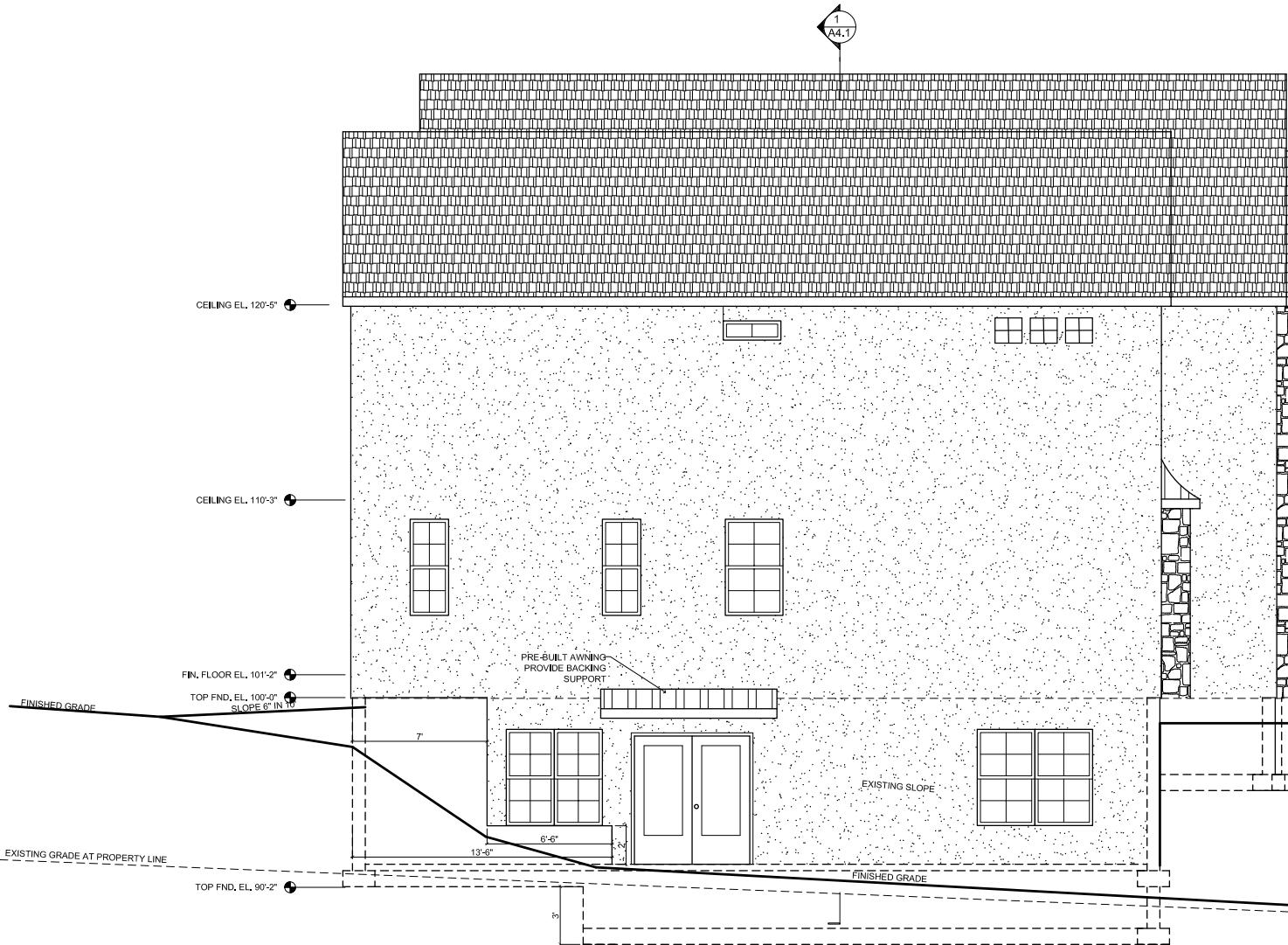
PLAN NO. 14x20-1C1D

EXTERIOR ELEVATIONS

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A3.2





① REAR ELEVATION

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PLAN NO. 14x20-1C1D  
**JOSH**

SCALE:  $\frac{1}{8}$ " = 1'-0"  
DATE:  
    
  

EXTERIOR ELEVATIONS  
    
  



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03/04/2021

A3.3

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JOSH

PLAN NO. 14x20-1C1D

SCALE:  $\frac{1}{8}$ " = 1'-0"

DATE:

EXTERIOR ELEVATIONS



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A3.4

CEILING EL. 120'-5"

FLASH AROUND ALL WINDOWS  
REQUIRED CODE SECTION R703

FIN. EL. AT FRONT OF HOUSE

3010

12

8

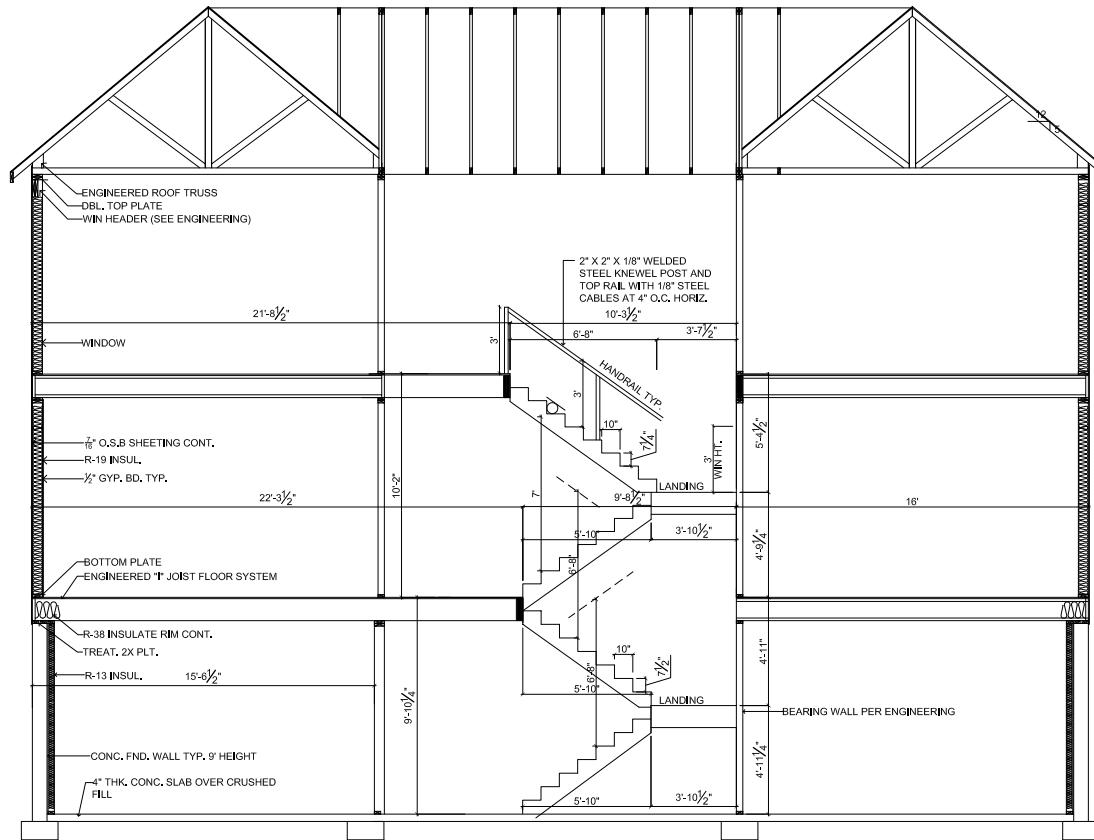
2050

2050

2050

SLOPE 6" IN 10'

① RIGHT ELEVATION



 SECTION  
2



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**ARNIE HUNT**  
**03/04/2021**

A4.1

## BUILDING SECTION

SCALE:  $\frac{1}{2}'' =$

**DATE:**

PLAN NO. 14x20-1C1D

PLAN NO. 14x20-1C1D

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JOSH

PLAN NO. 14x20-IC1D

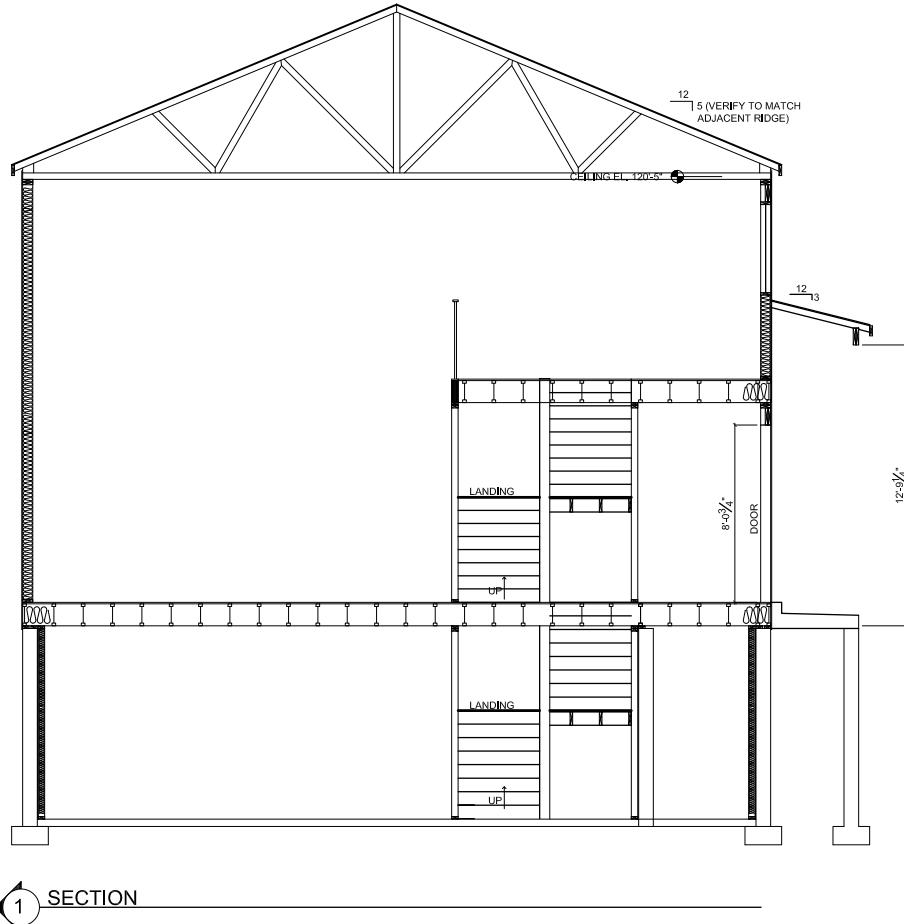
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DATE:

BUILDING SECTION



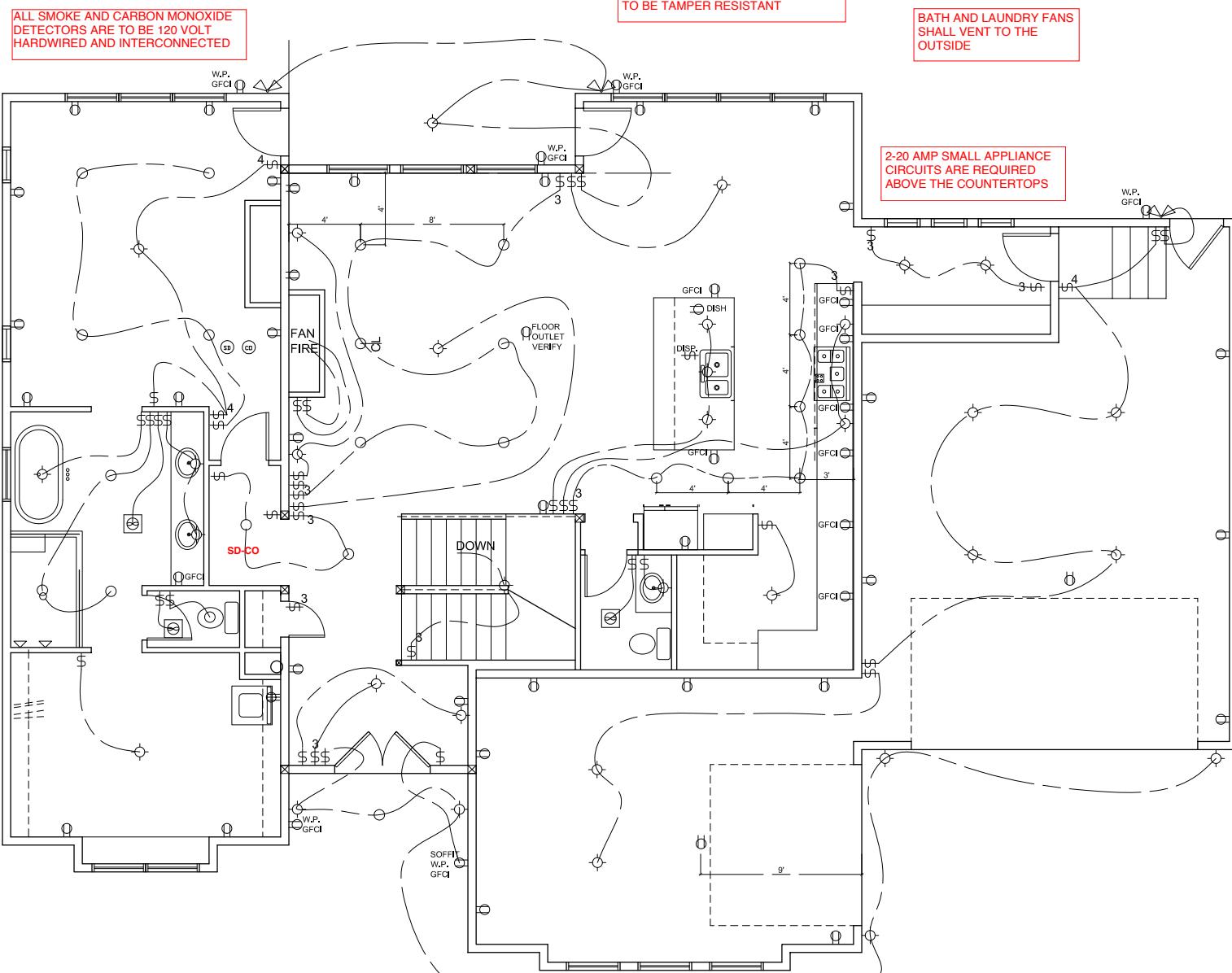
A4.2



SWITCH  
 3 WAY SWITCH  
 WP OUTLET  
 GFCI  
 DUMBELL OUTLET  
 220 OUTLET  
 THERMOSTAT  
 CAT 5 TELEPHONE  
 TELEVISION CAT 6 W/ INDIV HOME RUNS  
 FLOOD LIGHT  
 ELECTRIC PANEL  
 SMOKE DETECTOR  
 CO DETECTOR  
 LIGHT  
 RECESSED CAN LIGHT  
 48" FLOURESCENT LIGHT  
 BATH FAN  
 CEILING FAN

ONE 4 PAIR CAT 5 AND ONE RG6 COAXIAL LINE TO BE RUN FROM THE COMMUNICATIONS HUB TO THE EXTERIOR PHONE SERVICE BOX

PROVIDE ARC VOLT CIRCUIT INTERRUPTER IN BREAKER PANEL FOR ALL 115 120 OUTLET CIRCUITS IN BEDROOMS. EACH BEDROOM TO HAVE SEPERATE LINE.



## MAIN FLOOR ELECTRICAL

N.T.S.



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 03/04/2021

PLAN NO. 20-1C10  
 20 AMP METER BASE  
 JOSH

SCALE: 1" = 1'-0"  
 DATE:

MAIN FLR.  
 ELECTRICAL

E1.1

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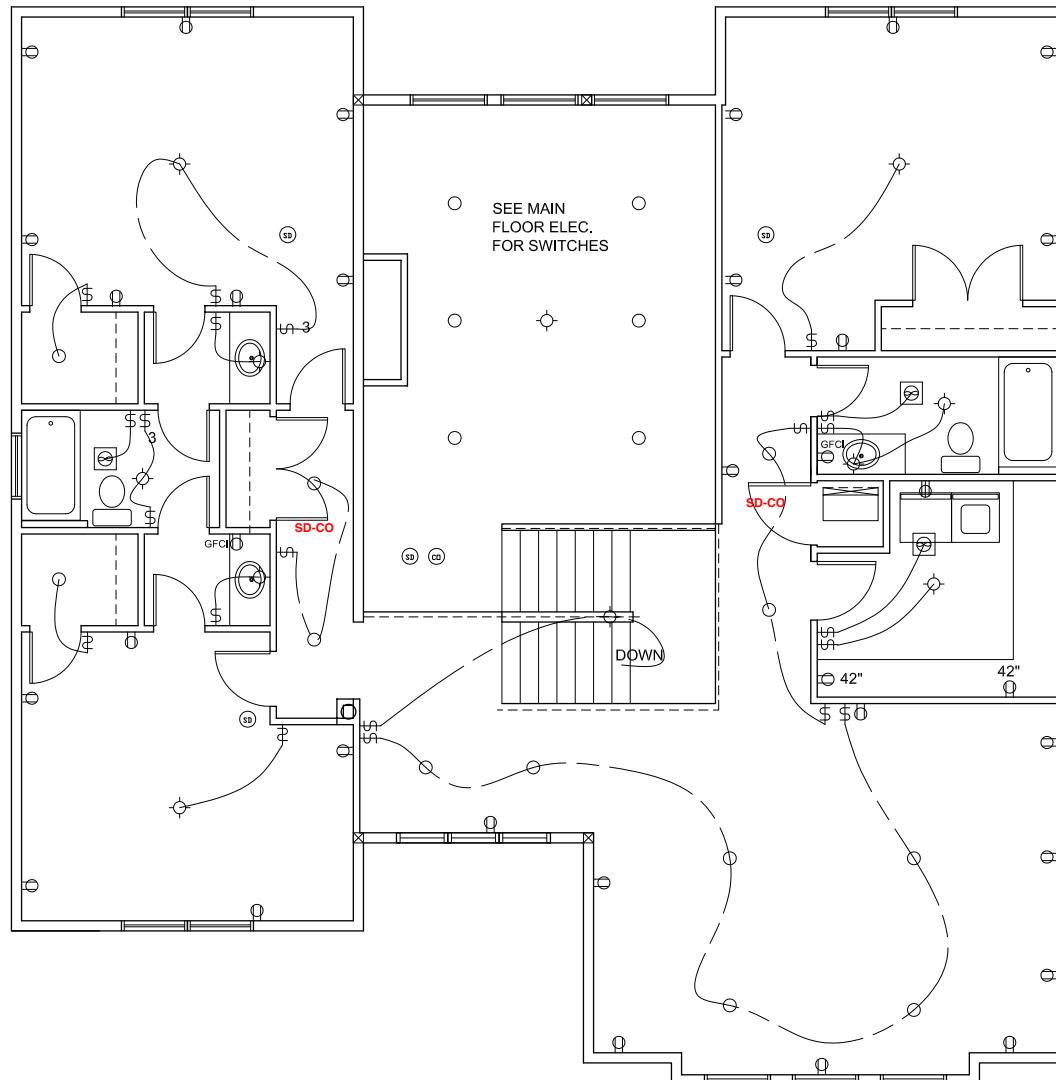
JOSH

PLAN NO. 14x20-1C1D

SCALE:  $\frac{1}{8}$ " = 1'-0"

DATE:

UPPER FLR.  
ELECTRICAL



## UPPER FLOOR ELECTRICAL

N.T.S.



E1.2

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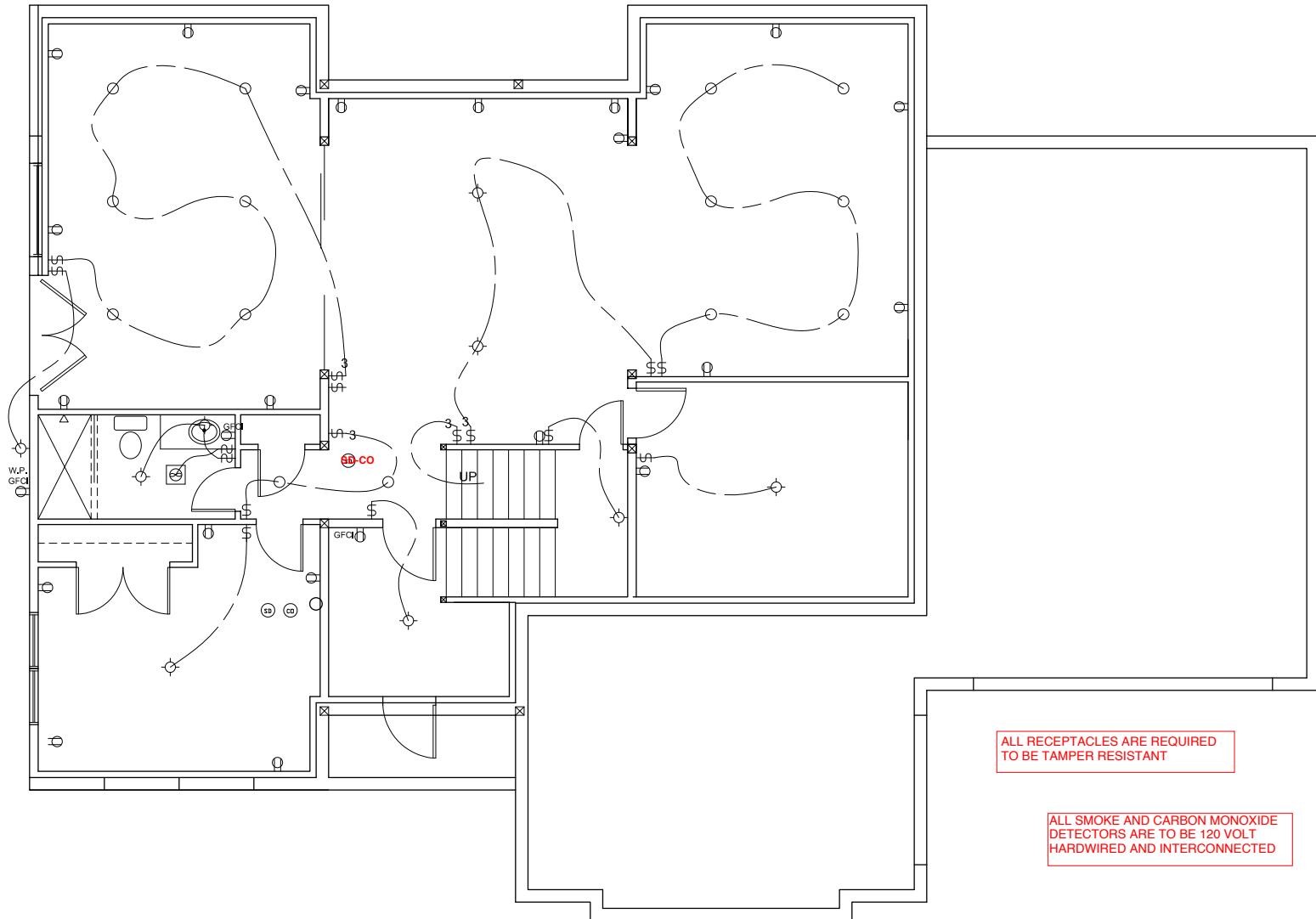
JOSH

PLAN NO. 14x20-IC10

SCALE:  $\frac{1}{8}$ " = 1'-0"

DATE:

UPPER FLR.  
ELECTRICAL



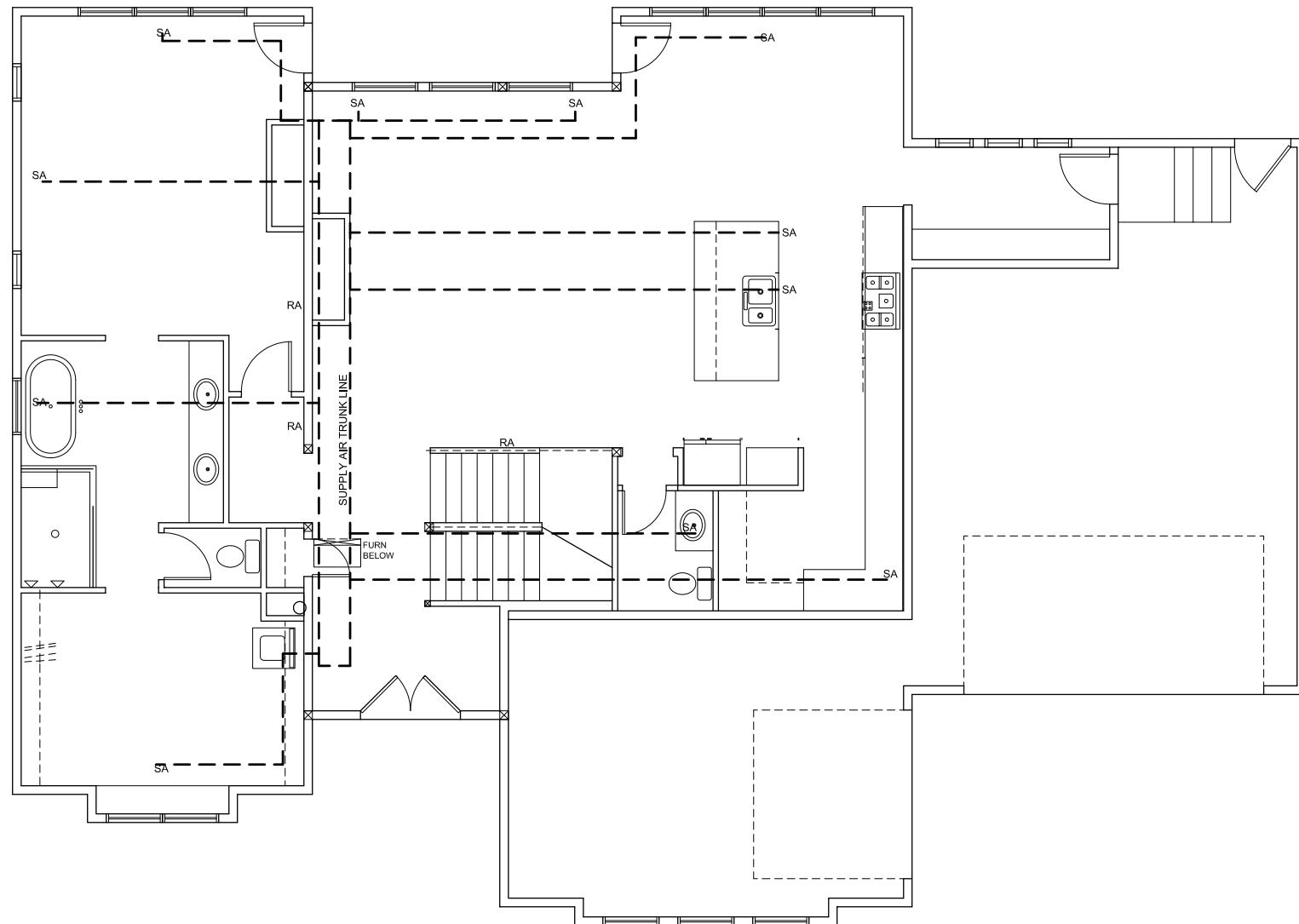
## BASEMENT ELECTRICAL

N.T.S.



REVIEWED  
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03/04/2021

E1.3



① MAIN FLOOR HVAC PLAN  
N.T.S.



M1

PLAN NO. 14x20-1C1D

SCALE:  $\frac{1}{8}$ " = 1'-0"

DATE:

MAIN FLOOR  
HVAC

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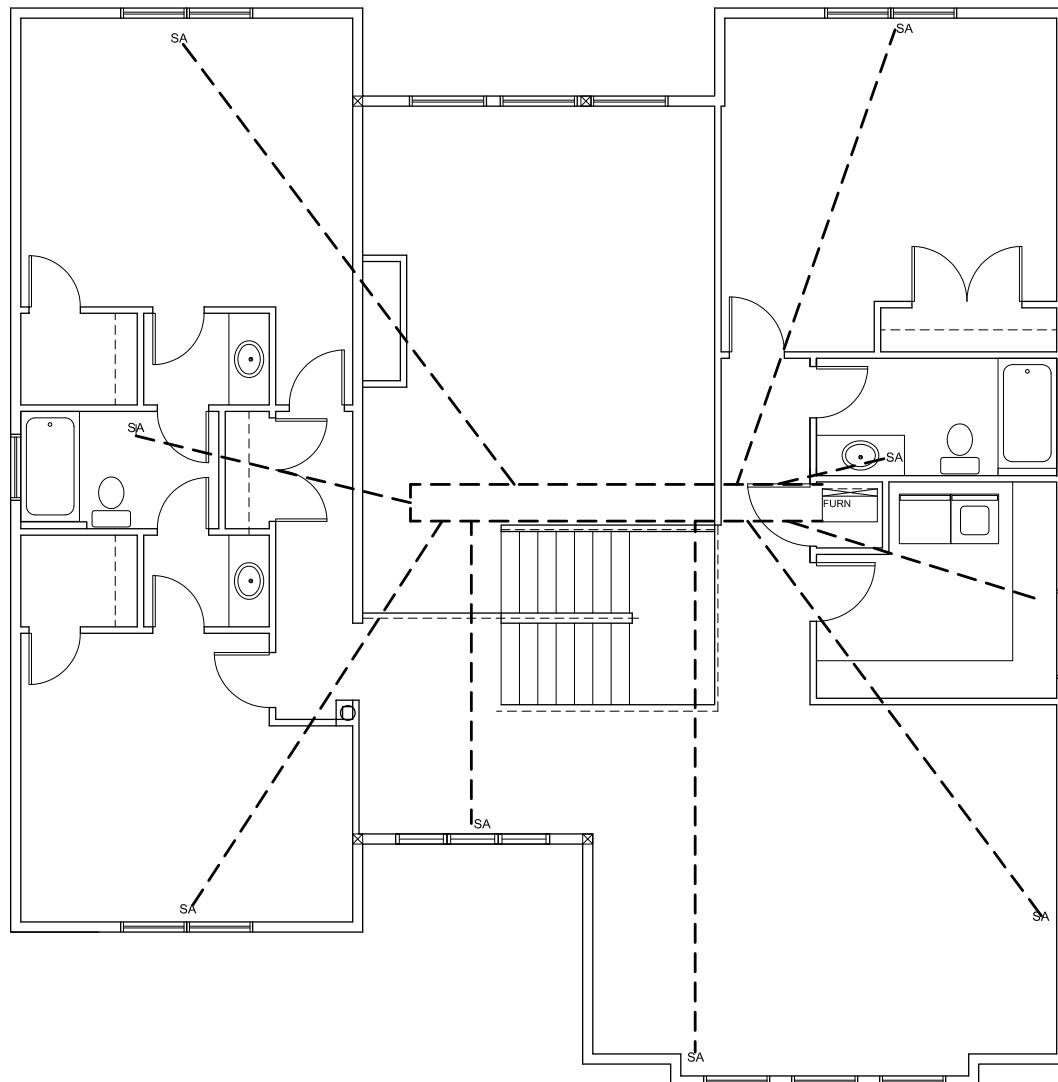
JOSH

PLAN NO. 14x20-1C1D

SCALE:  $\frac{1}{8}$ " = 1'-0"

DATE:

UPPER FLOOR  
HVAC



① UPPER FLOOR HVAC PLAN  
N.T.S.



M2

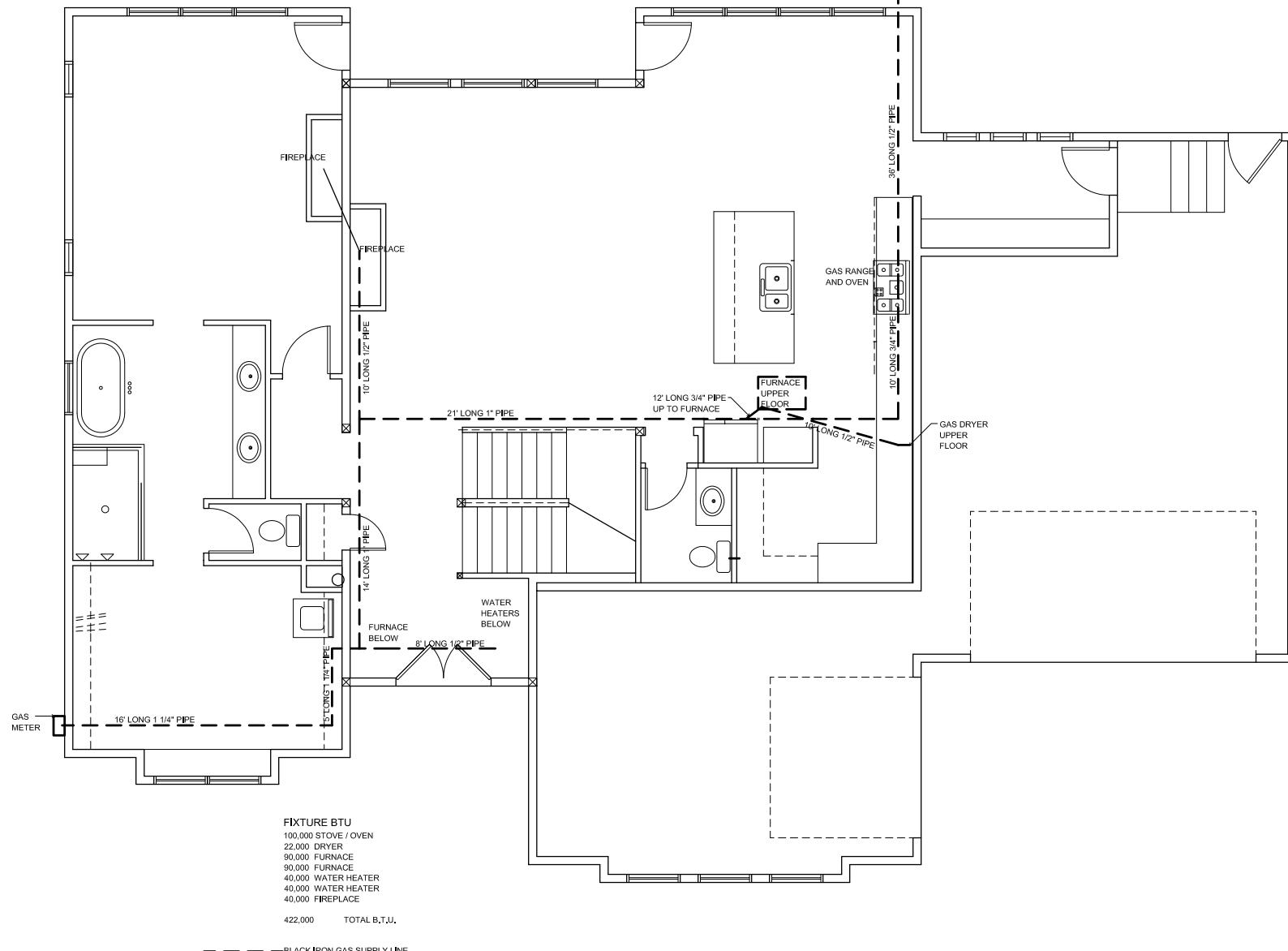
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JOSH

PLAN NO. 14x20-1C1D

SCALE:  $\frac{1}{8}$ " = 1'-0"  
 DATE:

GAS PIPING DIAGRAM



① GAS PIPING DIAGRAM  
 N.T.S.



M3

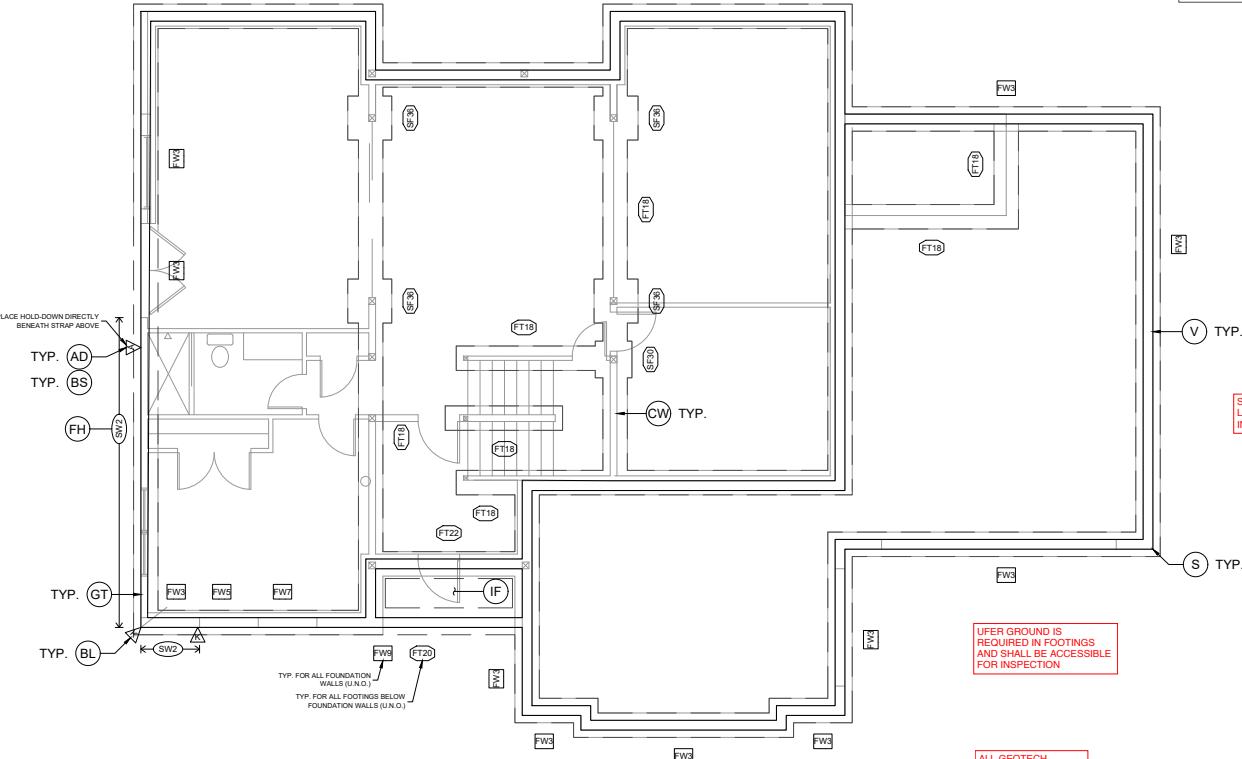


THESE STRUCTURAL DRAWINGS ARE SUPPLIED TO THE ARCHITECT FOR REVIEW. DRAWINGS ARE CURRENT ISSUE OR PREVIOUS EDITION AS NOTED.  
DIMENSIONS AND ELEVATIONS ARE SUPPLIED TO THE ARCHITECT. THEY ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR THE CONVENIENCE OF THE CONTRACTOR IN CONSTRUCTION AND ELEVATIONS WITH RESPECT TO THE DRAWINGS.

ORIGINAL PROJECT #  
69600121  
DRAWN BY  
RTM  
CHECKED BY  
MCW  
REVIEWED  
1/4" = 1'-0"  
DATE:  
08 FEB 2021

**FOOTING AND FOUNDATION PLAN**

**BIG IDEA DESIGNS STROBEL RESIDENCE (LEHI)**



MARK	HEIGHT	WIDTH	REINFORCEMENT		
			VERTICAL	HORIZONTAL	PLACEMENT
FW2	3'	8"	44 # 24"	(3) #4	CENTER
FW5	3'	8"	44 # 24"	(3) #4	CENTER
FW7	7'	8"	44 # 24"	(3) #4	CENTER
FW9	9'	8"	44 # 16"	(7) #4	CENTER

1. DOWEL VERTICAL BARS IN CENTER OF WALL.  
2. PLACE TOP AND BOTTOM BARS WITHIN 6" OF TOP AND BOTTOM OF WALL.  
3. PLACE REINFORCEMENT IN CENTER OF WALL OR NEAR EACH FACE, AS NOTED.

MARK	WIDTH	LENGTH	FOOTING SCHEDULE	
			THICKNESS	REINFORCEMENT
FT18	18"	10'	CONT	- (2) #4
FT20	20"	10'	CONT	- (2) #4
FT22	22"	10'	CONT	- (2) #4
SF30	30"	30"	10"	(3) #4
SF40	40"	10'	10"	(4) #4

1. CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS AND SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.  
2. FOOTINGS AND FOUNDATIONS, EXCAVATIONS, GRAVING, AND FILL SHALL COMPLY WITH THE PROVISIONS OF THE GEOTECHNICAL REPORT (SEE GRS).

HOLD-DOWN SCHEDULE					
MARK	HOLD-DOWN LENGTHS	SPANNERS	FASTENERS	ANCHOR	POST
A	LSTH05 (140 X 2'-0" LENGTHS)	100 X 2"-0" (140 X 2"-0")	STRAP 8" EMBEDD.	(2) ZX POST	
B	STHD010 (140 X 2'-0" LENGTHS)	100 X 2"-0" (140 X 2"-0")	STRAP 16" EMBEDD.	(2) ZX POST	
C	STHD14 (140 X 2'-0" LENGTHS)	100 X 2"-0" (140 X 2"-0")	STRAP 14" EMBEDD.	(2) ZX POST	
D	CS15 (140 X 2'-0" LENGTHS)	100 X 2"-0" (140 X 2"-0")	(FLOOR STRAP)	(2) ZX POST	
E	MST37 (140 X 2'-0" LENGTHS)	100 X 2"-0" (140 X 2"-0")	(FLOOR STRAP)	(2) ZX POST	
F	MST37 (140 X 2'-0" LENGTHS)	100 X 2"-0" (140 X 2"-0")	(FLOOR STRAP)	(2) ZX POST	
K	HDH4-S002.5 (S002.5)	50514" X 3'-12" (S002.5)	SS53X24	(2) ZX POST	

1. HOLD-DOWNS SHALL BE SIMPSON STRONG-TIE OR EQUIVALENT.  
2. SHEAR WALL EDGE NAILING SHALL BE TO HOLD-DOWN POST.  
3. SHEATHING NAILS SHALL BE COMMON OR GALVANIZED BOX NAILS. FIELD NAIL SPACING SHALL BE 12" FOR STITCH NAILING AND 16" FOR LEAD NAILING. NAILS SHALL BE PLATED AND SPANNED AT 16" O.C.  
4. FOR SW1 ONLY, EDGE NAILS MAY BE SUBSTITUTED WITH 1/4" #16 GAGE STAINLESS STEEL NAILS AT 2" O.C. AND FIELD NAILS MAY BE SUBSTITUTED WITH 16 GAGE STAINLESS STEEL NAILS AT 12" O.C.  
5. ANCHORAGE NAILS SHALL BE COMMON NAILS.  
6. ANCHOR BOLTS SHALL HAVE A 3/16x120" WASHER AND 7" MIN EMBEDMENT. THE WASHER SHALL EXTEND 1/4" PAST THE BOLT HEAD.  
7. FOR SW3, SW4, SW7, AND SW8, Q2" NOMINAL FRAMING STITCHNAILED TOGETHER WITH (2) 10d NAILS @ 8"

ALL GEOTECH REQUIREMENTS SHALL BE MET

REVIEWED  
ARNE HUNT  
03/04/2021

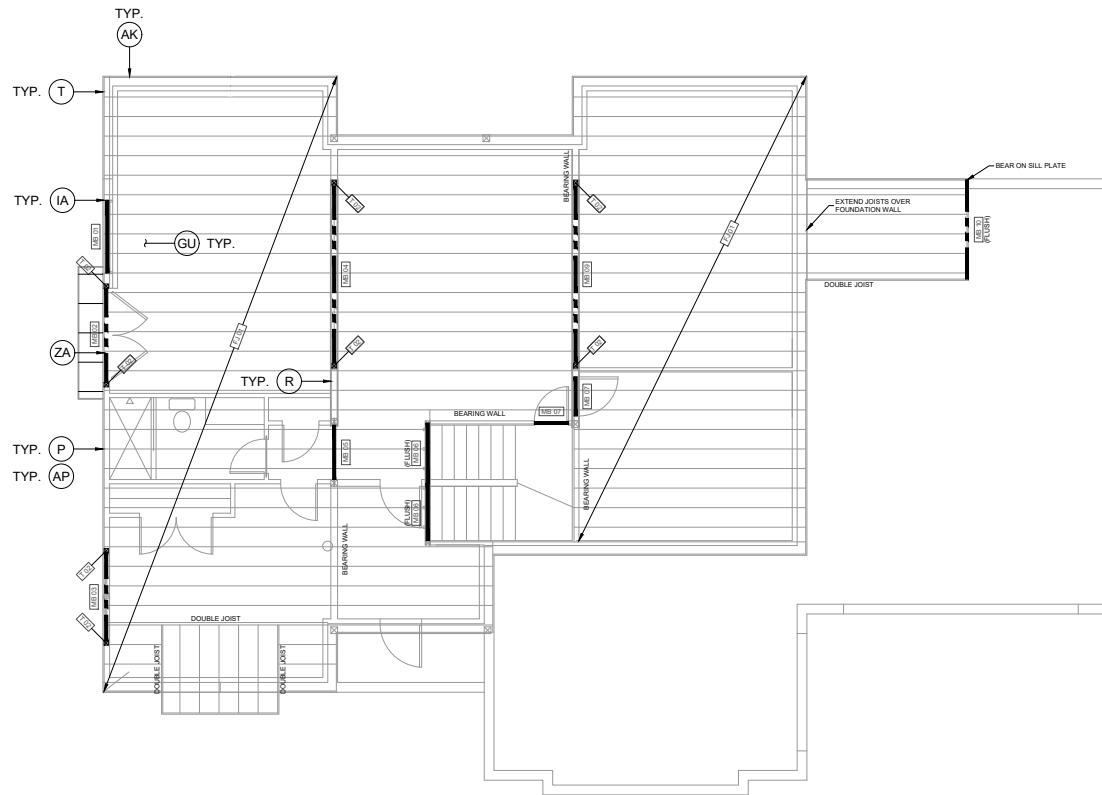
FOOTING AND FOUNDATION PLAN

1/4" = 1'-0"

**S0-0**

THESE STRUCTURAL DRAWINGS ARE  
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DIMENSIONS AND ELEVATIONS ARE  
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DIMENSIONS AND ELEVATIONS WITH  
ACUTE ENGINEERING DRAWINGS.

ORIGINAL PROJECT #  
6960121  
DRAWING #  
RTM  
CHECKED BY:  
MCW  
DATE:  
1/4" = 1'-0"  
08 FEB 2021



BEAM SCHEDULE	
MARK	TYPE
MB 21	(3) 2 X 10
MB 02	(2) 1-3/4 X 9-1/2 LVL
MB 03	(2) 1-3/4 X 9-1/2 LVL
MB 04	(2) 1-3/4 X 7-7/8 LVL
MB 05	(2) 2 X 4
MB 06	1-3/4 X 11-7/8 LVL
MB 07	2 X 4
MB 09	(2) 1-3/4 X 11-7/8 LVL
MB 10	2 X 4
1. DIMENSION LUMBER OF #2 U.N.D.	
2. LAMINATED VENEER LUMBER (LVL) 2X2	
3. GLUED-LAMINATED TIMBER (GLT) 2X7-1/2	
4. STEEL W-SHAPES AS920	
5. SUFFICES (A, B, ETC.) DENOTE ALTERNATIVES FOR THE SPECIFIED JOIST	
6. ALL HEADERS IN BEARING WALLS TO HAVE MIN. ALL OTHER BEADS AND GROUT TRUSSES TO HAVE MIN. (2) 2X SUPPORTS U.O.D.	

FLOOR JOIST SCHEDULE	
MARK	TYPE
FJ 01	11-7/8" X 12-1/2 @ 10' O.C.
FJ 02 A	11-7/8" X 12-1/2 @ 10' O.C.
FJ 02 B	11-7/8" X 12-3/8 @ 10' O.C.
1. DIMENSION LUMBER OF #2 U.N.D.	
2. SUFFICES (A, B, ETC.) DENOTE ALTERNATIVES FOR THE SPECIFIED JOIST	

SHEATHING SCHEDULE	
TYPE	THICKNESS
FLOOR	3/4" OSB (4924 SPAN RATING)
ROOF	3/4" OSB (24/16 SPAN RATING)
1. SHEATHING PERPENDICULAR TO SUPPORT	
2. FLOOR SHEATHING NAILED & GLUED TO SUPPORT	
3. 8d COMMON NAIL 5/8" O.C. (EDGES) OR 3/4" (FIELD)	
4. NAILING NO CLOSER THAN 3/8" FROM PANEL EDGE	

POST SCHEDULE	
MARK	TYPE
P 03	(2) 2X POST
P 12	5-1/4 X 7 PSL
T 02	(2) TRIM
T 15	(2) 2X 3 KING
1. PARALLEL STRAND LUMBER (PSL) 1-1/8"	
2. STEEL PIPE (PIPE STD) A33	
3. STEEL HOLLOW SECTION (HSS) A33	
4. STEEL COLUMNS REQUIRE BEARING PLATES	
5. CONTINUE POSTS TO FON / STRUCTURE MEMBER	

REVIEWED  
ARNIE HUNT  
03/04/2021

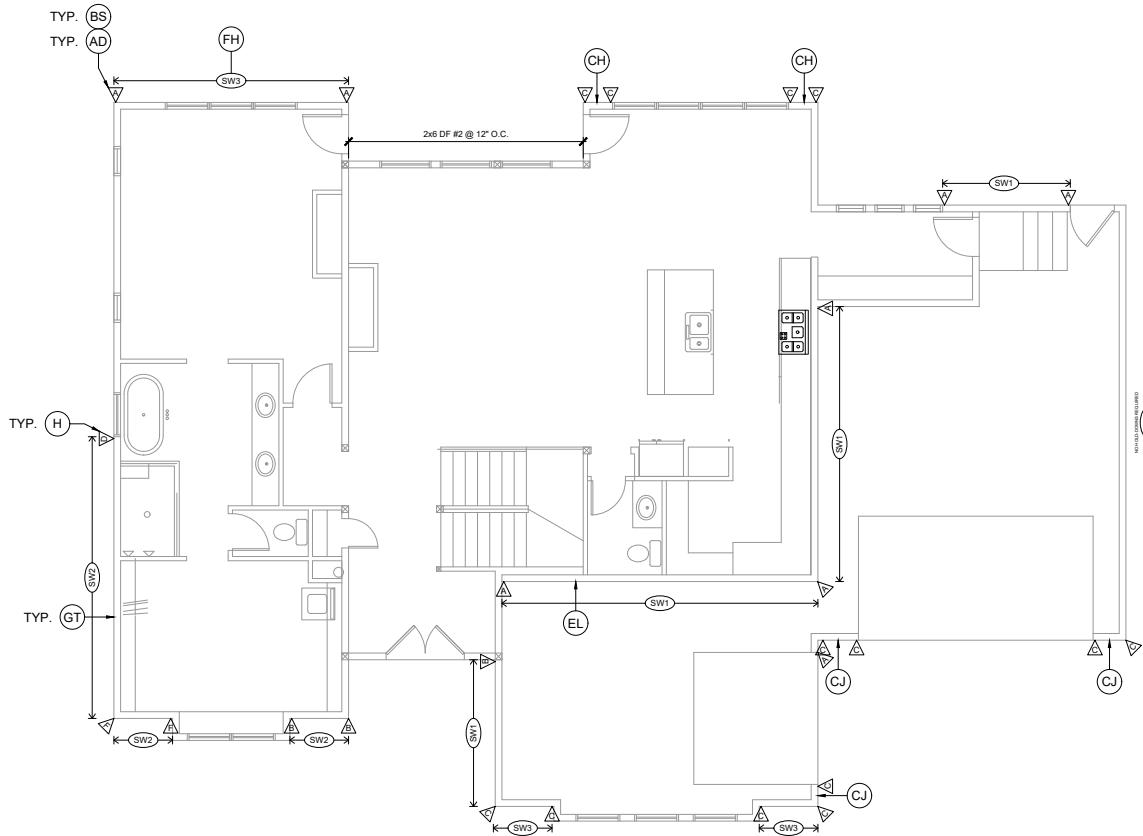
MAIN FLOOR FRAMING PLAN

S1-0

1/4" = 1'-0"

MAIN FLOOR FRAMING PLAN

ISSUES / REVISIONS
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100



HOLD-DOWN SCHEDULE					
MARK	HOLD-DOWN	FASTENERS	ANCHOR	POST	
A	LTHD10	100 X 2-1/2" (144 X 2-1/2")	STRAP 10' EMBED		(2) 2X POST
B	STHD10	100 X 2-1/2" (144 X 2-1/2")	STRAP 10' EMBED		(2) 2X POST
C	STHD14	100 X 2-1/2" (144 X 2-1/2")	STRAP 14" EMBED		(2) 2X POST
D	CS16 (17" END LENGTH)	100 X 2-1/2" (144 X 2-1/2")	(FLOOR STRAP)		(2) 2X POST
E	M727	100 X 2-1/2" (144 X 2-1/2")	(FLOOR STRAP)		(2) 2X POST
F	M748	100 X 2-1/2" (144 X 2-1/2")	(FLOOR STRAP)		(2) 2X POST
G	HOUD-GS212	50514 X 2-1/2" (GS21212)	SBSKXH		(2) SBS POST

1. HOLD-DOWNS SHALL BE SIMPSON STRONG-TIE OR EQUIVALENT.

2. SHEAR WALL EMBED SIZING SHALL BE TO HOLD-DOWN POST.

3. STSD STRAPS SHALL BE T-TYPE AT RM JOIST LOCATIONS.

SHEAR WALL SCHEDULE					
MARK	SHEATHING	EDGE FRAMING	ABUTTING NAIL SPACING FRAMING	ANCHORAGE	
				SIDE NAILS	SEAL PLATE
SW1	7/16"	#4 @ 6"	#4 @ 6"	1 1/2" A @ 12"	
SW2	7/16"	#4 @ 6"	2X	1 1/2" A @ 6"	1/2" A @ 9"
SW3	7/16"	#4 @ 3"	3X or (2)2X	10 1/2" @ 12"	1/2" A @ 32"
1. SHEATHING SHOULD BE WOOD CONSTRUCTION DETAILS (SEE GSIN)					
2. UNLESS NOTED ON DRAWINGS, EXTERIOR STUDS SHALL BE SPACED AT 16" O.C.					
3. SHEATHING NAILS SHALL BE COMMON OR GALVANIZED BOX NAILS - FIELD NAIL SPACING SHALL BE 12" FOR SW1 AND SW2 AND 10 1/2" FOR SW3.					
4. FOR SW1 ONLY, EDGE NAILS MAY BE SUBSTITUTED WITH 1 1/2" L-GAGE STAPLES SPACED AT 3" O.C. AND FIELD NAIL SPACING MAY BE SUBSTITUTED WITH 16 GA STAPLES AT 12" O.C.					
5. ANCHOR BODIES SHALL HAVE MAXIMUM DIAMETER OF 1/2". THE ANCHOR LENGTH SHALL EXTEND TO 12" WITHIN FROM THE SHEATHING SURFACE.					
7. FOR SW3, SW1, SW2, AND SW2.5, (2) 1/2" COMM-FRAME STICKERS ALIGNED TOGETHER WITH (2) 1/2" NAILS & 6" NAIL SPACING IN PLACE OF (3) NORMA-FRAME STICKERS.					

REVIEWED  
ARNIE HUNT  
03/04/2021

## MAIN FLOOR SHEAR WALL PLAN

S1-1

MAIN FLOOR SHEAR WALL PLAN

BIG IDEA DESIGNS STROBEL RESIDENCE (LEHI)

**ACUTE  
ENTERTAINMENT, INC.**  
744 S. 400 E.  
Orem, UT 84097  
Phone 801.229.9020  
Fax 801.224.0050

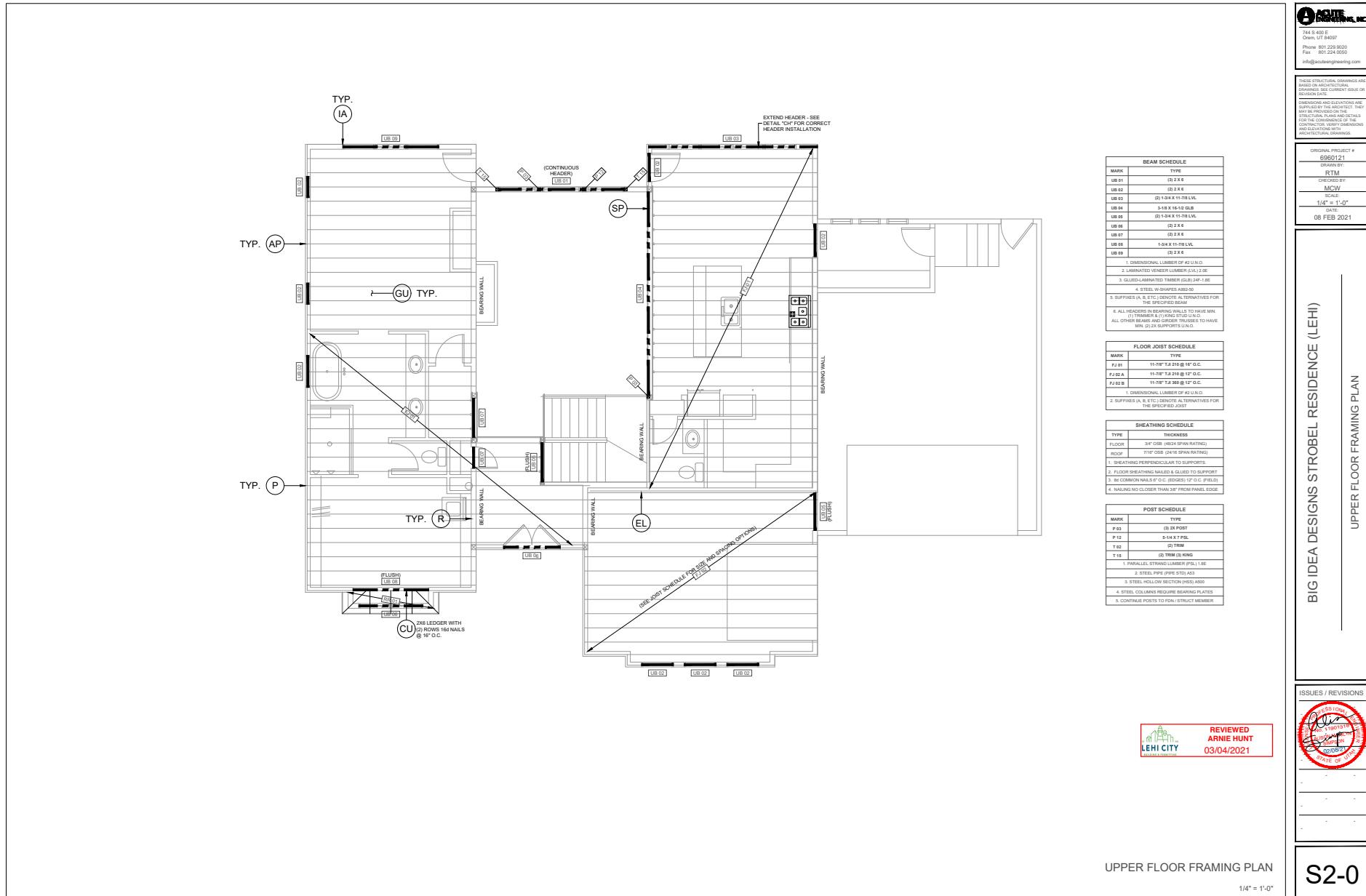
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BASED ON ARCHITECTURAL  
DRAWINGS. SEE CURRENT ISSUE OR  
REVISION DATE.

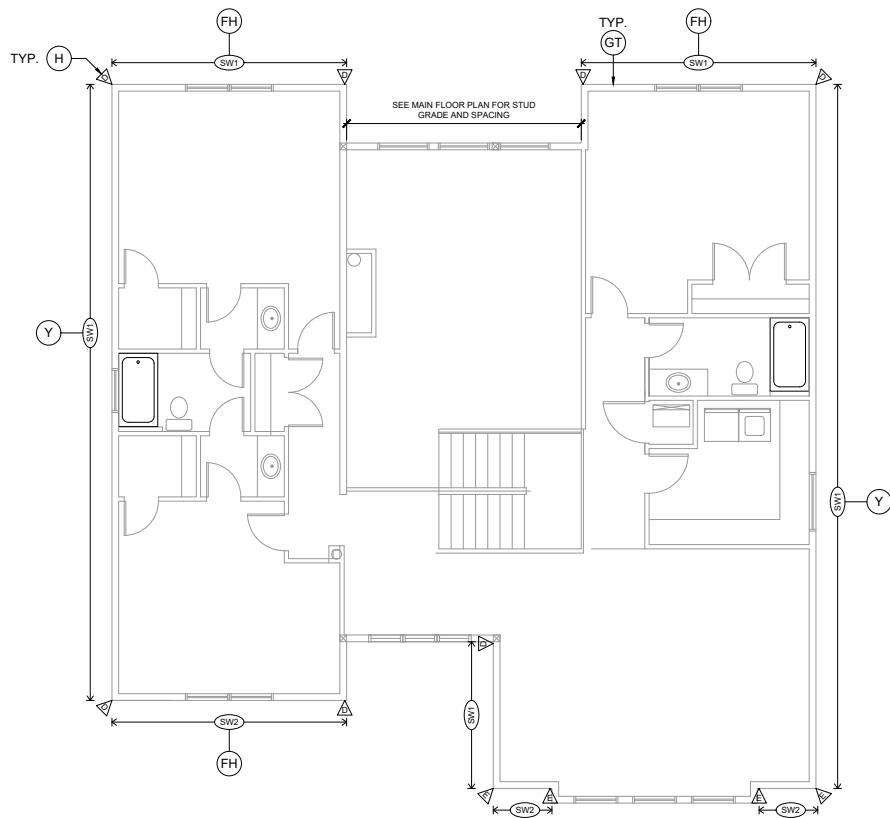
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DIMENSIONS AND ELEVATIONS ARE  
SUPPLIED BY THE ARCHITECT. THEY  
MAY BE PROVIDED ON THE  
STRUCTURAL PLANS AND DETAILS  
FOR THE CONVENIENCE OF THE  
CONTRACTOR. VERIFY DIMENSIONS  
AND ELEVATIONS WITH  
ARCHITECTURAL DRAWINGS.

ORIGINAL PROJECT #  
6960121  
DRAWN BY:  
RTM  
CHECKED BY:  
MCW  
SCALE:  
1/4" = 1'-0"  
DATE:  
08 FEB 2021

5





HOLD-DOWN SCHEDULE					
MARK	HOLD-DOWN	MINIMUM FASTENER LENGTH	ANCHOR	POST	
A	LSTDH	16d x 2-1/2" (148 x 3-1/2")	STRAP 1" EMBED		(2) 2X POST
B	STDH10	16d x 2-1/2" (148 x 3-1/2")	STRAP 10" EMBED		(2) 2X POST
C	STDH14	16d x 2-1/2" (148 x 3-1/2")	STRAP 14" EMBED		(2) 2X POST
D	CS16	16d x 2-1/2" (148 x 3-1/2")	FLLOOR STRAP		(2) 2X POST
E	MS10	16d x 2-1/2" (148 x 3-1/2")	FLLOOR STRAP		(2) 2X POST
F	MS14	16d x 2-1/2" (148 x 3-1/2")	FLLOOR STRAP		(2) 2X POST
G	MS18	16d x 2-1/2" (148 x 3-1/2")	FLLOOR STRAP		(2) 2X POST
K	HOU4-SDS12	SDS12 x 2-1/2" (SDS23212)	SBS8324		(2) 2X POST
1. HOLD-DOWNS SHALL BE SIMPLION STRONG-TIE OR EQUIVALENT.					
2. SHEAR WALL EDGE NAILING SHALL BE TIED TO HOLD-DOWN POST.					
3. STRIHD STRAPS SHALL BE "R" TYPE AT RIM JOINT LOCATIONS.					

1. HOLD-DOWNS SHALL BE SIMPSON STRONG-TIE OR EQUIVALENT.
2. SHEAR WALL EDGE NAILING SHALL BE TO HOLD-DOWN POST.
3. STHD STRAPS SHALL BE "RF" TYPE AT RIM JOIST LOCATIONS.

SHEAR WALL SCHEDULE					
MARK	SHEATHING	EDGE NAILING	ADJUSTING PLATE FOR NON-FLAT FRAMING	ANCHORAGE	SILL PLATE
SW1	7/16"	#8 @ 4"	2x	20# SHEATHING SHRINKAGE	1/2" A.S. @ 27°
SW2	7/16"	#8 @ 4"	2x	50# SHEATHING SHRINKAGE	1/2" A.S. @ 27°
SW3	7/16"	#8 @ 4"	2x	50# SHEATHING SHRINKAGE	1/2" A.S. @ 27°
1. SHEATHING SHALL CONSIST OF WOOD STRUCTURAL PANELS (SEE GEN. REQUIREMENTS).					
2. UNLESS NOTED ON DRAWINGS, EXTERIOR STUDS SHALL BE SPACED AT 16" O.C.					
3. SHEATHING MUST BE ATTACHED TO THE FRAMING WITH 1/2" DIA. SHEATHING NAILS. SHELLS SHALL BE 12' ON CENTER.					
4. FOR SHEATHING 1/2" OR LESS, SHELLS SHALL BE SPACED AT 12" O.C.					
5. SHEATHING SPACES MUST BE SUBSTITUTED WITH 1 1/2" X 16 GAUGE STEEL SPACES AT 3' O.C. AND ANCHORED WITH 1/2" DIA. SHEATHING NAILS.					
6. ANCHOR BOLTS SHALL HAVE A .500" SHANK DIA. AND 1" LENGTH. THE WASHER SHALL EXTEND OUT TO 1/2" FROM THE SHEATHING.					
7. FOR SW3, SW1, SW2 & SW3, Z-BEAM, FRAME STITCHED TOGETHER WITH 1/2" NAILS @ 12" O.C. IN PLACE OF THE NON-FLAT FRAMING.					

7. FOR SW3, SW4, SW7, AND SW8, (2) 2" NOMINAL FRAMING STITCH-NAILED TOGETHER WITH (2) 10d NAILS @  
MAY BE USED AT ABUTTING PANEL EDGES IN PLACE OF 3" NOMINAL FRAMING.

 REVIEWED  
ARNIE HUNT  
03/04/2021

## UPPER FLOOR SHEAR WALL PLAN

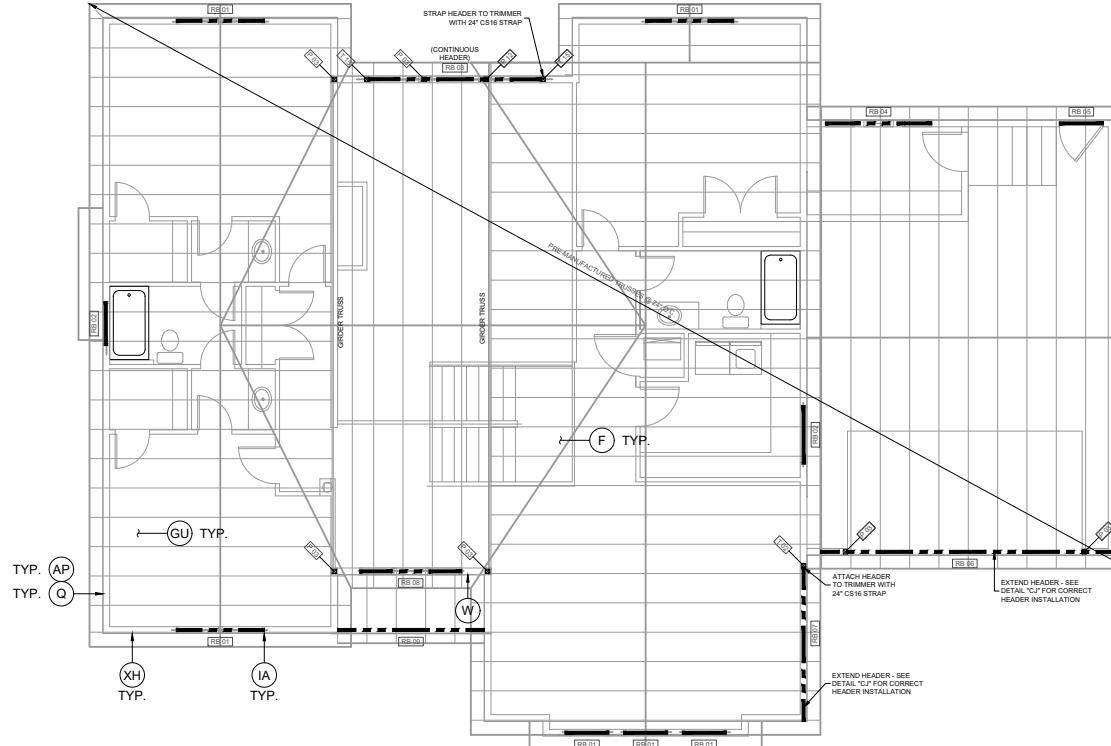
1/4" = 1'-0"



S2-1

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MCW  
DATE:  
1/4" = 1'-0"  
08 FEB 2021



BEAM SCHEDULE	
MARK	TYPE
RB 01	(2) 2 x 6
RB 02	(2) 2 x 6
RB 03	(2) 2 x 6
RB 04	(2) 2 x 6 O.C.
RB 05	(2) 2 x 6
RB 06	(2) 1-3/4 X 11-1/8 LVL
RB 07	(2) 1-3/4 X 11-1/8 LVL
RB 08	(2) 1-3/4 X 9-1/2 LVL
RB 09	(2) 2 x 6
1. DIMENSIONAL LUMBER OR #2 U.N.C.	
2. LAMINATED VENEER LUMBER (LVL) 2-10	
3. GLUED-LAMINATED TIMBER (GLULAM) 24F-1-8E	
5. SURFACES (A, B, ETC) INDICATE ALL ALTERNATIVES FOR THE SPECIFIED BEAM	
6. ALL HEADERS IN BEARING WALLS TO HAVE MIN. 2-1/2" DEPTH. ALL OTHER BEAMS AND COLUMNS TO HAVE MIN. 2" DEPTH. SUPPORTS U.N.C.	

ROOF RAFTER SCHEDULE	
MARK	TYPE
RR 01	2 X 6 @ 24" O.C.

1. DIMENSIONAL LUMBER OR #2 U.N.C.

SHEATHING SCHEDULE	
TYPE	THICKNESS
FLOOR	3/4" OSB (400 SF SPAN RATING)
ROOF	7/16" OSB (2416 SF SPAN RATING)
1. SHEATHING PERPENDICULAR TO SUPPORTS.	
2. FLOOR SHEATHING MUST BE GLUED TO SUBFLOOR.	
3. RAFTERS MUST BE ATTACHED TO SHEATHING.	
4. NAILING NO CLOSER THAN 3/8" FROM PANEL EDGE.	

WOOD TRUSS LOADS	
GROUND SNOW LOAD, Pg = 12 PSF	
FLAT ROOF SNOW LOAD = 24 PSF	
TOP CHORD DEAD LOAD = 10 PSF	
BOTTOM CHORD DEAD LOAD = 5 PSF	
5. DESIGN SNOW LOADS SHALL BE IN ACCORDANCE WITH ASCE 7-16 CMR 7-16 RC 100	

POST SCHEDULE	
MARK	TYPE
P 01	(2) 2X POST
P 02	5-1/4 X 7 PSL
T 02	(2) TRIM
T 03	(2) TRIM
1. PARALLEL STRAND LUMBER (PSL) 1-16	
2. STEEL PIPE (PIPE STD) A50	
3. STEEL HOLLOW SECTION (HSS) A50	
4. STEEL COLUMNS REQUIRE BEARING PLATES	
5. CONTINUE POSTS TO FDN / STRUCT MEMBER	

### BIG IDEA DESIGNS STROBEL RESIDENCE (LEHI)

### ROOF FRAMING PLAN

ISSUES / REVISIONS
REVIEWED ARNIE HUNT
03/04/2021
-
-
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### ROOF FRAMING PLAN

1/4" = 1'-0"

S3-0

THESE STRUCTURAL DRAWINGS ARE PROVIDED TO THE ARCHITECT FOR REVIEW. THEY ARE NOT FOR CONSTRUCTION. THEY ARE PROVIDED AS A GUIDE FOR THE CONVENIENCE OF THE CONTRACTOR. DO NOT USE THESE DRAWINGS AND ELEVATIONS WITH CAD/TECHNICAL DRAWINGS.

ORIGINAL PROJECT #  
6960121  
DRAWING #  
RTM  
CHECKED BY:  
MCW  
DATE:  
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## STRUCTURAL DETAILS

### BIG IDEA DESIGNS STROBEL RESIDENCE (LEHI)

This sheet contains 20 detailed structural drawings labeled F through EL, each with specific dimensions and construction requirements. The drawings cover various aspects of the building's structure, including:

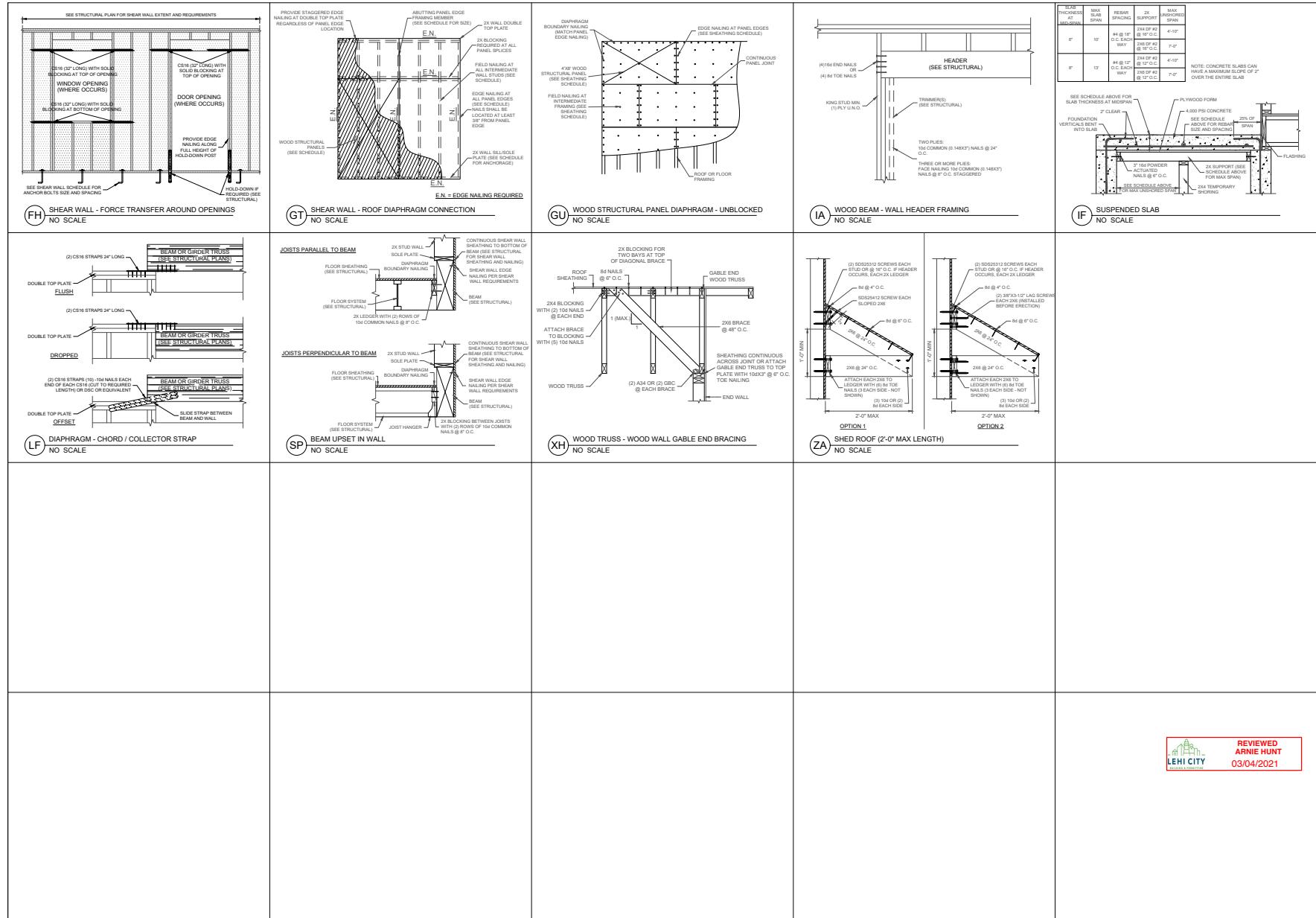
- F ROOF FRAMING - OVER BUILD FRAMING**: Shows support over-build on full width or multiple 2x ledgers with (4) 16d nails per side. Includes notes for ridge or hip beam, over-build rafters, and ridge cap.
- H HOLD-DOWN - FLOOR STRAP**: Shows a strap connecting a post to a floor joist. Notes include providing equal end lengths and minimum 1-1/8" first nail.
- P BEARING WALL - EXTERIOR TO FLOOR (150 PLF UNIT SHEAR)**: Shows a bearing wall connected to a floor joist. Notes include continuous sheathing, solid blocking at wall edges, and anchor bolts.
- Q ROOF FRAMING - BLOCKING (150 PLF UNIT SHEAR)**: Shows a roof rafter with blocking. Notes include full-height solid blocking, anchor plates, and H1 or SDWC1500 at each single truss bearing.
- R BEARING WALL - INTERIOR TO FLOOR**: Shows a bearing wall connected to a floor joist. Notes include full-height blocking between joists or wood joists, and double top plate.
- S FOUNDATION WALL - CORNER & INTERSECTION REINFORCING**: Shows corner and intersection reinforcement with required lap lengths for G.W., S.W., and P.S. soils.
- T FOUNDATION WALL - FLOOR JOIST (PERPENDICULAR)**: Shows a foundation wall with a floor joist perpendicular. Notes include required lap length, treated sill plate, and concrete foundation wall.
- V FOUNDATION WALL - SLAB ON GRADE**: Shows a foundation wall with a slab on grade. Notes include concrete foundation wall, roughed surface, and concrete footing.
- W WOOD TRUSS - WALL/BEAM**: Shows a wood truss connected to a wall or beam. Notes include blocking, truss handles, and concrete foundation.
- Y SHEAR WALL - PERFORATED**: Shows a shear wall with a perforated section. Notes include additional strapping and blocking around openings.
- AD HOLD-DOWN - FOUNDATION STRAP**: Shows a foundation strap embedded in a post. Notes include horizontal reinforcement at top of foundation and clear space from grade.
- AK FOUNDATION WALL - FLOOR JOIST (PARALLEL)**: Shows a foundation wall with a floor joist parallel. Notes include required lap length, treated sill plate, and concrete foundation wall.
- AP DIAPHRAGM - TOP PLATE SPLICE**: Shows a diaphragm with a top plate splice. Notes include minimum height between splices and anchor bolt spacing.
- BL HOLD-DOWN**: Shows a hold-down device anchored to a foundation wall. Notes include anchor bolt diameter and embedment length.
- BS RETROFIT EPOXY ANCHOR IN FOUNDATION WALL**: Shows an epoxy retrofit for displaced stud. Notes include anchor bolt diameter, replacement epoxy anchor, and minimum edge distance.
- CH PORTAL FRAME - FLOOR ON CONCRETE FOUNDATION**: Shows a portal frame on a concrete foundation. Notes include full-height stud, header, and fasteners.
- CJ APA PORTAL FRAME - CONCRETE FOUNDATION**: Shows an APA portal frame on a concrete foundation. Notes include full-height stud, header, and fasteners.
- CU LEDGER - RAFTER TO FRAMED WALL**: Shows a ledger connected to a framed wall. Notes include A33 clips, screws/nails, and blocking.
- CW BEARING WALL - INTERIOR FOOTING**: Shows a bearing wall on an interior footing. Notes include full-height I-joist, concrete slab, and fasteners.
- EL SHEAR TRANSFER - JOIST/RAFTERS DIAPHRAGM CONNECTION**: Shows a shear transfer connection between joists and rafters. Notes include full-height joist blocking, concrete slab, and fasteners.

REVIEWED  
ARNIE HUNT  
03/04/2021

### ISSUES / REVISIONS

*(A large red circular stamp is present here, containing handwritten text that is mostly illegible but includes "REVIEWED" and "03/04/2021".)*

SD1



**ABOVE  
ENGINEERING, INC.**

744 S 400 E  
Orem, UT 84097

Phone: 801.224.9020  
Fax: 801.224.0050

<http://www.aboveengineering.com>

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ORIGINAL PROJECT #  
**69601-AK**

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**RTM**

CHECKED BY:  
**MCW**

SCALE:  
**NTS**

DATE:  
**08 FEB 2021**

## STRUCTURAL DETAILS

ISSUES / REVISIONS

*[Signature]*

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LICENSE  
NO. 11901311P  
BUSINESS  
SIMPLY  
02/08/20

STATE OF UTAH

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SD2

SD2