

 **ACUTE**  
ENGINEERING, INC.

---

1429 South State St.  
Orem, Utah 84097

Phone 801.229.9020  
Fax 801.224.0050

[info@acuteengineering.com](mailto:info@acuteengineering.com)

FOOTING SCHEDULE					
MARK	WIDTH	LENGTH	THICKNESS	REINFORCEMENT	
				TRANSVERSE	LENGTHWISE
FT16	18"	CONT.	10"	-	(2) #4
FT20	20"	CONT.	10"	-	(2) #4
FT22	22"	CONT.	10"	-	(2) #4
FT28	26"	CONT.	10"	-	(2) #4

1. CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS AND SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE;

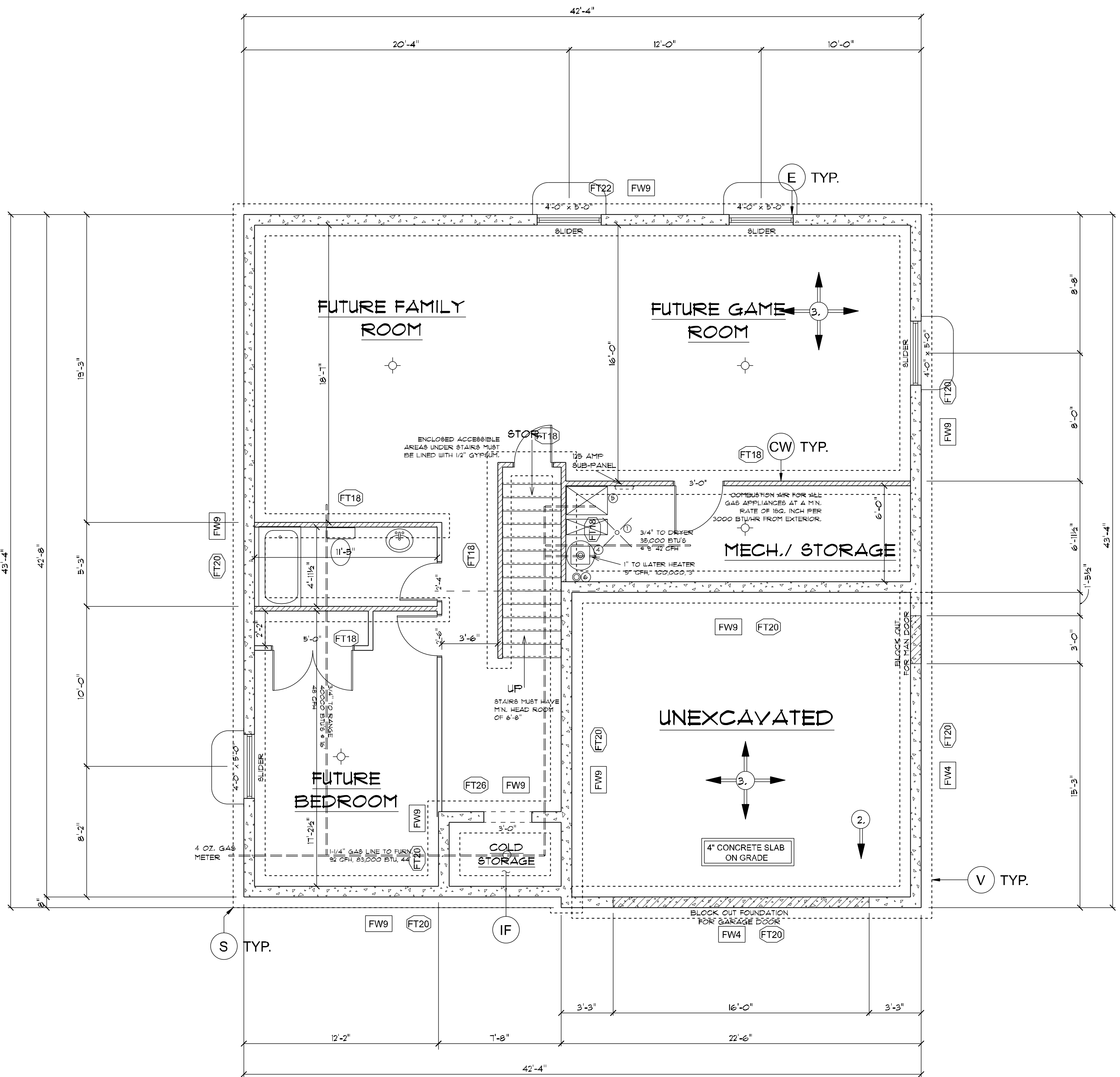
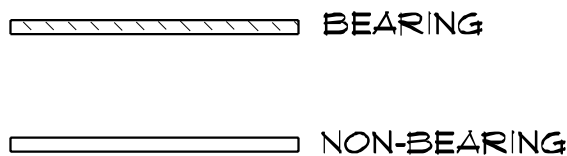
2. FOOTINGS AND FOUNDATIONS, EXCAVATIONS, GRADING, AND FILL SHALL COMPLY WITH THE PROVISIONS OF THE GEOTECHNICAL REPORT (SEE GSN)

FOUNDATION WALL SCHEDULE					
MARK	HEIGHT	WIDTH	REINFORCEMENT		PLACEMENT
			VERTICAL	HORIZONTAL	
FW4	4'	8"	#4 @ 24"	(#4) #4	CENTER
FW9	9"	8"	#4 @ 16"	(7)#4	CENTER

1. DOVEL VERTICAL BARS INTO FOOTING
2. PLACE TOP AND BOTTOM BARS WITHIN 4" OF TOP AND BOTTOM OF WALL
3. PLACE REINFORCEMENT IN CENTER OF WALL OR NEAR EACH FACE, AS NOTED

## NOTES

CONSTRUCTION USING THESE PLANS SHOULD NOT BE UNDERTAKEN  
WITHOUT THE ASSISTANCE OF A BUILDING PROFESSIONAL.



# FOUNDATION PLAN

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



**HIGHDESERT** Design LLC.

www.HIGHDESERTPLANS.com

(801) 450-8213

1075 W. 15220 S.  
RIVERTON, UT 84065

## ATTENTION

THESE PLANS, DRAWINGS, AND DESIGNS ARE THE PROPERTY OF HIGH DESERT DESIGN, LLC. ALL RIGHTS ARE RESERVED, AND SHALL NOT BE REPRODUCED WITHOUT WRITTEN CONSENT OF HIGH DESERT DESIGN. THESE PLANS ARE RELEASED FOR A ONE TIME USE FOR CONSTRUCTION OF SITE B/C ONLY.

## KEYNOTES

1. LOCATION OF PLUMBING FIXTURES  
(SEE FLOOR PLANS)
2. SLOPE OF FLOOR AT GARAGE  
SLAB (3" TOTAL)
3. 4" CONCRETE SLAB ON GRADE
4. 50 GALLON GAS WATER HEATER  
W/ EXPANSION TANK, 40,000 BTU'S  
(W/ 5/8" MINIMUM HOLDUPIN)  
(W/ ONE WAY CHECK VALVES AT INLET  
& OUTLET) (1/2" FOM INSULATION  
AT HOT WATER LINES.)
5. 90% EFFICIENCY GLASS FURNACE  
83,000 BTU'S  
(I.E. TEMPTSTAR NUBESICO)
6. 4" FLUE 28' LONG W/  
2 OFFSETS.

#107 QUIRRH MOUNTAIN  
2019 E. HARKER'S WAY  
EAGLE MOUNTAIN, UT

AWN FOR ONE  
E USE FOR:  
THE BUILDING GROUP

PLAN: \*610 DATE: 6/28/17

SHEET:  <b>3</b>  OF:	LOWER LEVEL: 1352 S.F.
	MAIN LEVEL: 1347 S.F.
	UPPER LEVEL: 571 S.F.
	<b>TOTAL FINISHED</b> <b>1,918 S.F.</b>



1429 South State St.  
Orem, Utah 84097

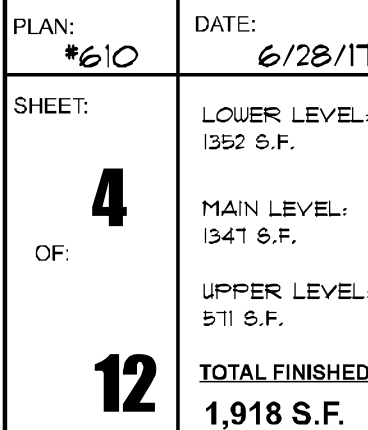
Phone 801.229.9020  
Fax 801.224.0050

[info@acuteengineering.com](mailto:info@acuteengineering.com)

SHEAR WALL SCHEDULE					
MARK	SHEATHING	EDGE NAILING	ABUTTING PANEL EDGE FRAMING	ANCHORAGE	
				SOLE PLATE	SILL PLATE
SW1	7/16"	8d @ 6"	2X	10d @ 12"	1/2" A.B. @ 32"
SW2	7/16"	8d @ 4"	2X	10d @ 12"	1/2" A.B. @ 32"


1. SHEATHING SHALL CONSIST OF WOOD STRUCTURAL PANELS (SEE GSN).
2. SHEATHING NAILS SHALL BE COMMON OR GALVANIZED BOX NAILS . FIELD NAIL SPACING SHALL BE 12" FOR STUDS SPACED 16" O.C. OR LESS AND 2" O.C. FOR STUDS SPACED AT 24" O.C.
3. FOR SW1 ONLY, EDGE NAILS MAY BE SUBSTITUTED WITH 1"X12" 16 GAUGE STAPLES SPACED AT 3" O.C. AND FIELD NAIL MAY BE SUBSTITUTED WITH 16 GAUGE STAPLES AT 12" O.C
4. ANCHORAGE NAILS SHALL BE COMMON NAILS.
5. ANCHOR BOLTS SHALL HAVE A 3X30 220# WASHER AND 7"MM EMBEDMENT. THE WASHER SHALL EXTEND TO VISION LINE FROM THE SHEATHING.

## SCALE: 1/4"=



THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS. SEE CURRENT ISSUE OR REVISION DATE.

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.

**ACUTE**  
ENGINEERING, INC.

1429 South State St.  
Orem, Utah 84097

Phone 801.223.9020  
Fax 801.224.0050  
info@acuteengineering.com

HOLD-DOWN SCHEDULE				
MARK	HOLD-DOWN	MINIMUM FASTENERS	ANCHOR	POST
A	LSTD8	16d X 2-1/2" (148 X 2-1/2")	STRAP 8" EMBED.	(2) 2X POST
C	STHD14	16d X 2-1/2" (148 X 2-1/2")	STRAP 14" EMBED.	(2) 2X POST
1. HOLD-DOWNS SHALL BE SIMPSON STRONG-TIE OR EQUIVALENT.				
2. SHEAR WALL EDGE NAILING SHALL BE TO HOLD-DOWN POST.				
3. STD STRAPS SHALL BE "RJ" TYPE AT RM JOIST LOCATIONS.				

SHEAR WALL SCHEDULE					
MARK	SHEATHING	EDGE NAILING	ABUTTING PANEL EDGE FRAMING	ANCHORAGE	
				SOLE PLATE	SILL PLATE
SW1	7/16"	8d @ 6"	2X	10d @ 12"	1/2" A.B. @ 32"
SW2	7/16"	8d @ 4"	2X	10d @ 12"	1/2" A.B. @ 32"
1. SHEATHING SHALL CONSIST OF WOOD STRUCTURAL PANELS (SEE GSN).					
2. SHEATHING NAILS SHALL BE COMMON OR GALVANIZED BOX NAILS. FIELD NAIL SPACING SHALL BE 12" FOR STUDS SPACED 16" O.C. OR LESS AND 6" O.C. FOR STUDS SPACED AT 24" O.C.					
3. FOR SW1 ONLY, EDGE NAILS MAY BE SUBSTITUTED WITH 1-1/2" 16 GAGE STAPLES SPACED AT 3" O.C. AND FIELD NAILS MAY BE SUBSTITUTED WITH 16 GAGE STAPLES AT 12" O.C.					
4. ANCHORAGE NAILS SHALL BE COMMON NAILS.					
5. ANCHOR BOLTS SHALL HAVE A 3X30 22# WASHER AND 7" MIN EMBEDMENT. THE WASHER SHALL EXTEND TO WITHIN 1/2" FROM THE SHEATHING.					

NOTES:

ACCESS PANEL OPENINGS FOR JETTED TUB PUMPS MUST NOW BE 18"X18" WHERE EQUIPMENT IS MORE THAN 2' FROM ACCESS OPENING. OPENING MAY BE 12"X12" IF LESS THAN 2'.

ALL TUBS MUST HAVE ANTI-SCALD MIXING VALVES. LIMITING WATER TEMP TO 120 DEGREES.

NOTES:

BACKWATER VALVES WILL NOW BE REQUIRED IN ALL NEW RESIDENCES UNLESS IT CAN BE ESTABLISHED THAT A FIXTURE IN THE BASEMENT OR LOWEST LEVEL OF THE HOME IS NOT BELOW THE ELEVATION OF THE UPSTREAM MANHOLE COVER. THIS WILL REQUIRE THE BASEMENT FLOOR TO BE UNBID INDEPENDENT FROM THE UPPER FLOORS. BACKWATER VALVES MUST BE ACCESSIBLE.

NOTES:

PROVIDE PERMANENT PROTECTION FOR EXTERIOR STRUCTURAL GLUE-LAM BEAMS OR MUST BE PROTECTED WITH PRESSURE TREATED PRESERVATIVE.

SHOWER DOORS MUST BE SIZED AS TO PROVIDE A MINIMUM OF 22" NET CLEAR OPENING.

TUBS AND SHOWERS WITH TILED WALLS NOW REQUIRE CEMENT, FIBER CEMENT OR GLASS MAT GYPSUM BACKERS. GREEN BOARD IS NO LONGER ALLOWED IN ANY APPLICATION.

NOTES:

SHOWER PAN LINERS MUST EXTEND 3" ABOVE THE SHOWER DOOR THRESHOLD HEIGHT AND SOLID BLOCKING IS REQUIRED BEHIND ALL LINER LOCATIONS.

SHOWER PAN LINERS MUST BE INSTALLED WITH BUILT UP FLOORS AND MUST BE INSPECTED.

BATHROOM EXHAUST FAN DUCTS MUST NOW CONTINUE AND DISCHARGE DIRECTLY OUTSIDE THE STRUCTURE.

SAKES, GARDEN TUBS AND WHIRLPOOL TUBS MUST HAVE ANTI-SCALD MIXING VALVES. LIMITING WATER TEMP TO 120 DEG.

FLOOR DRAINS TO HAVE DEEP SEAL TRAPS.

2015 IRC TO BE GOVERNING CODE ON DRAWINGS.

HIGH DESERT DESIGN, LLC ASSUMES NO LIABILITY FOR ANY BUILDING CONSTRUCTED FROM THESE PLANS. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO PERFORM BUILDING REVIEWS BEFORE BEGINNING CONSTRUCTION. THESE INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

1. VERIFY ALL DIMENSIONS
2. REVIEW ALL STAIR REQUIREMENTS
3. VERIFY COMPLIANCE WITH LOCAL CODES
4. VERIFY ALL FOUNDATION HOLDOWN LOCATIONS
5. VERIFY ACTUAL SITE CONDITIONS


ANY DISCREPANCIES ON THE PLANS MUST BE RESOLVED BY THE BUILDER PRIOR TO CONSTRUCTION.

TRUSS DESIGN AND LAYOUT IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.

CONSTRUCTION USING THESE PLANS SHOULD NOT BE UNDERTAKEN WITHOUT THE ASSISTANCE OF A BUILDING PROFESSIONAL.

# UPPER LEVEL

SCALE: 1/4"=1'

**HIGHDESERT**  
Design, LLC

www.HIGHDESERTPLANS.com

(801) 450-8213

1875 W. 1320 S.  
RIVERTON, UT 84405

ATTENTION:

THESE PLANS DRAWINGS ARE PREPARED BY HIGH DESERT DESIGN, LLC. ALL RIGHTS ARE RESERVED AND SHALL NOT BE REPRODUCED WITHOUT WRITTEN CONSENT OF HIGH DESERT DESIGN. THESE PLANS ARE RELEASED FOR YOUR REVIEW ONLY. NO CONSTRUCTION OF SITE BEGINS.

KEYNOTES

1. GAS FIREPLACE (HEAT & GAS INERT-80)
2. OPTIONAL TV NOOK ABV.
3. 42"X36" SHOWER
4. 22"X30" ATTIC ACCESS
5. GRANITE COUNTERTOP ON 34" HIGH BASE CABINET
6. 1.6 GALLON PER FLUSH TOILET
7. STANDARD TUB/SHOWER COMBO

LOT #107 Oquirrh Mountain

2019 E. HARKER'S WAY  
EAGLE MOUNTAIN, UT

THE BUILDING GROUP

PLAN: 610

SHEET: 5 OF 12

DATE: 6/28/17

LOWER LEVEL: 1352 S.F.

MAIN LEVEL: 1341 S.F.

UPPER LEVEL: 911 S.F.

TOTAL FINISHED: 1,918 S.F.

