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# TAHOE DONNER

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DOWNHILL SKI LODGE • BOARD MEETING

MARCH 24, 2023





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**A**

# VALUE ENGINEERING SUMMARY



# VALUE ENGINEERING SUMMARY

OVER THE COURSE OF THE PROJECT’S DEVELOPMENT, TAHOE DONNER’S DESIGN, ENGINEERING AND CONSTRUCTION TEAM IMPLEMENTED MEANINGFUL VALUE ENGINEERING INTO THE PROJECT WHILE IMPROVING THE BUILDING’S USABLE SQUARE FOOTAGE AND OPERATIONAL EFFICIENCIES.

WE HAVE PROVIDED THREE SPECIFIC EXAMPLES SUMMARIZING OUR EFFORTS. INEFFICIENT AND/OR PARTICULARLY COSTLY AREAS WERE REDUCED OR ELIMINATED IN EXCHANGE, IN SOME CASES, FOR LESS EXPENSIVE SPACE. FOR INSTANCE, ELIMINATING AN ELEVATOR REDUCES COST WHILE ADDING APPROXIMATELY 100 SQUARE FEET OF USABLE AREA IN LIEU OF UNCOUNTED SHAFT SPACE. IN ANOTHER LOCATION, WE WERE ABLE TO MEANINGFULLY INCREASE THE CAPACITY OF DINING ROOM 1 AT MINIMAL COST BY SHIFTING THE LOCATION OF A WALL ALREADY UNDERNEATH THE NEW LODGE’S OVERHANG.

OVERALL, WE REDUCED THE TOTAL BUILDING FROM OUR TARGET OF 24,490 SQUARE FEET TO 23,988 SQUARE FEET, OR A REDUCTION OF 502 SQUARE FEET. IN TERMS OF DINING SEATS AND RESTROOM COUNTS, WE SUMMARIZED OUR NUMBERS BELOW IN COMPARISON TO THE EXISTING LODGE.

## COUNTS

	EXISTING LODGE	PROPOSED LODGE (90% CONSTRUCTION DOCUMENTS)	DELTA
SEAT COUNT			
INDOOR	142	200	40.80%
KIDS	30 (YURT)	52	73.30%
DECK	337	383	13.60%
RESTROOM FIXTURES			
MALE	10 (NOT TO CODE)	15	50%
FEMALE	11 (NOT TO CODE)	16	45.50%

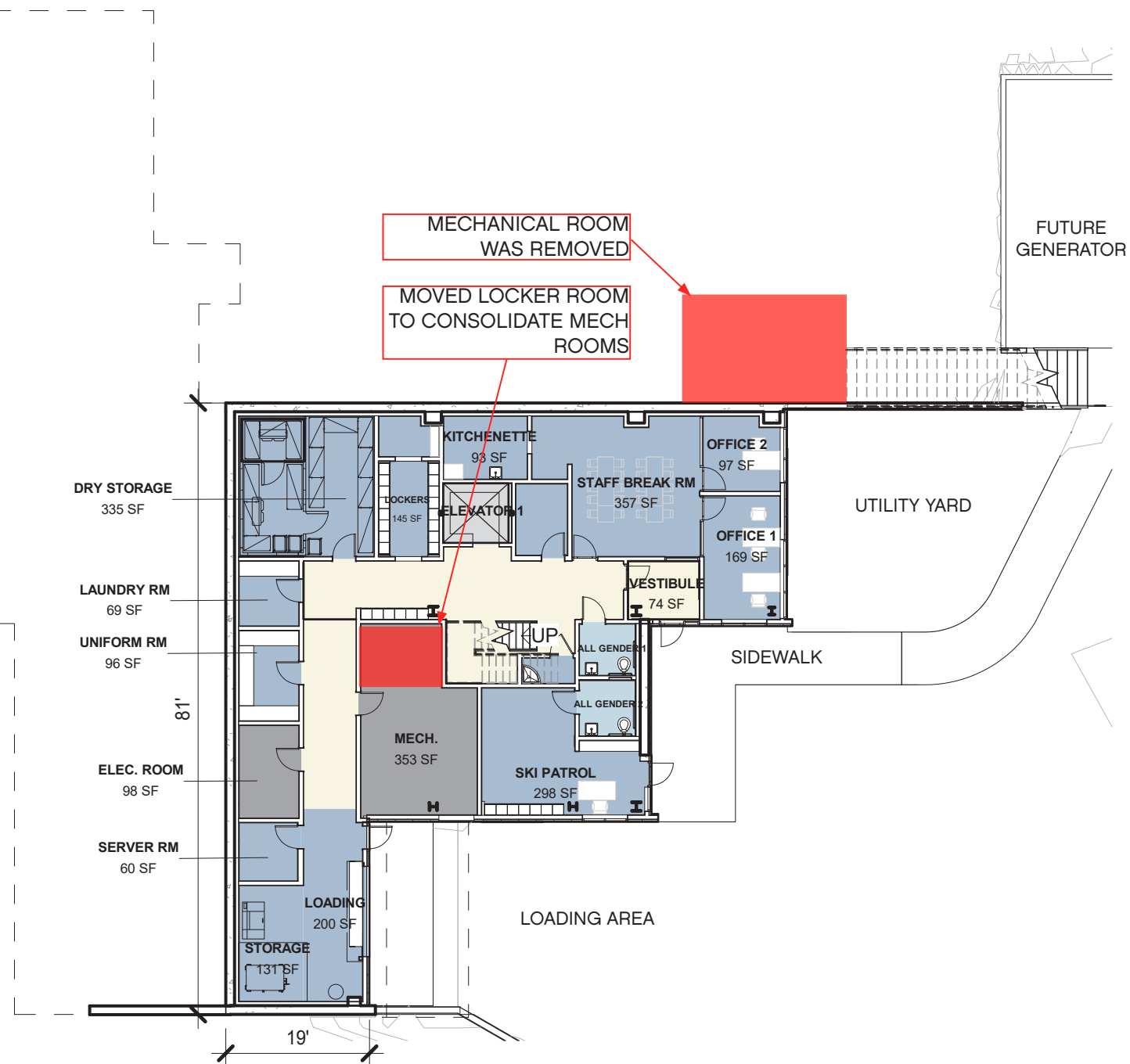


**B**

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# FLOOR PLANS WITH VALUE ENGINEERING CHANGES

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### VALUE ENGINEERING: EXAMPLE #1

THE TEAM INTEGRATED ALL MECHANICAL SPACE WITHIN PRIMARY BUILDING. AS A RESULT, WE:

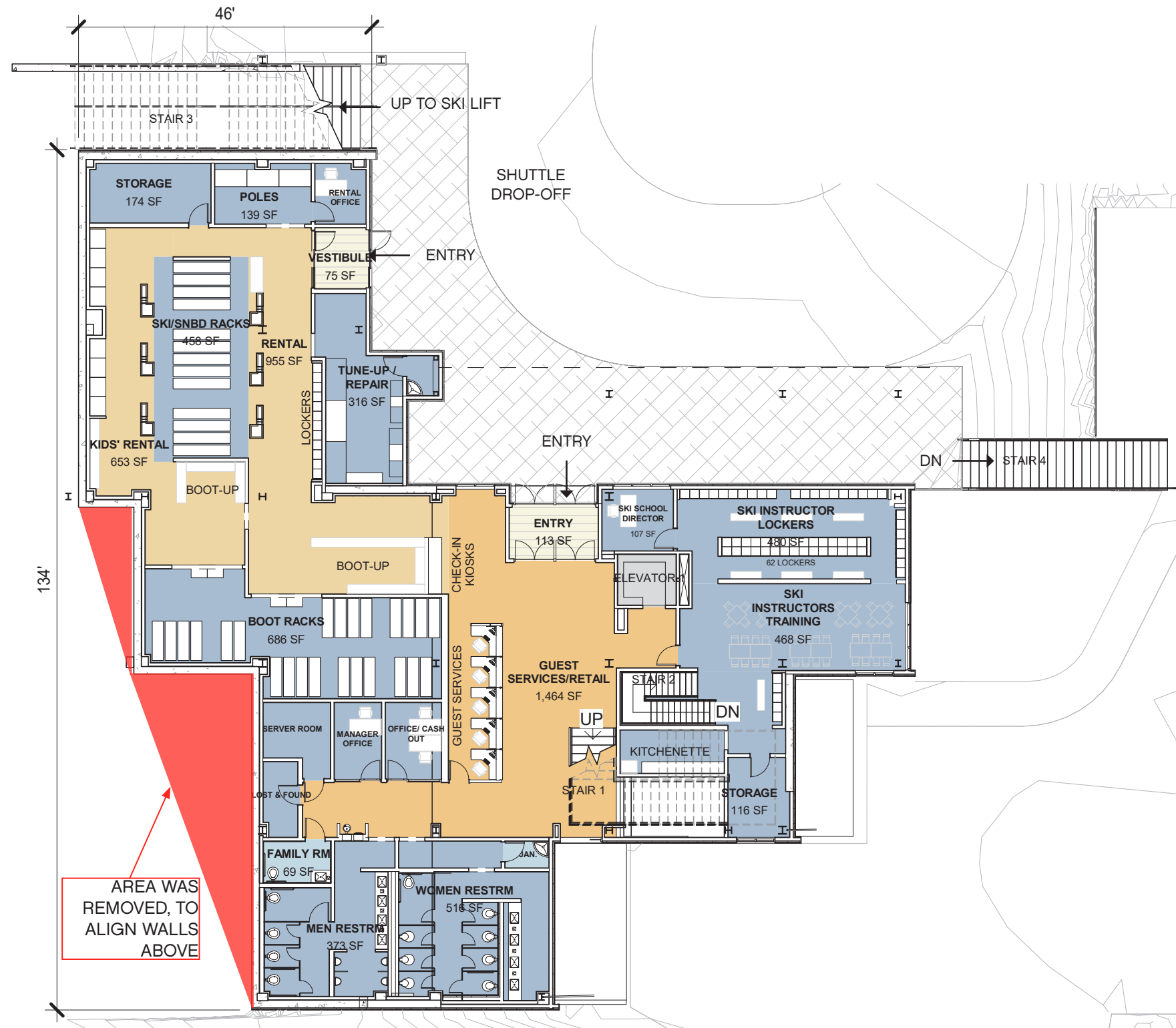
- REDUCED REDUNDANT BUILDING AREA.
- ELIMINATED ASSOCIATED CONCRETE FOOTINGS, FOUNDATIONS AND WALLS.
- ELIMINATED UNDERGROUND DUCTS.
- CENTRALIZED THE BUILDING'S MECHANICAL SYSTEMS, AND
- MOVED THE BUILDING'S PREP KITCHEN TO THE THIRD FLOOR.

### RELATED BENEFITS:

- SMALLER, MORE EFFICIENT MECHANICAL UNITS.
- REDUCED BACK-OF-HOUSE SPACE.
- MORE EFFICIENT KITCHEN OPERATIONS.

LEVEL 1 FLOOR PLAN WITH VE CHANGES: *RELOCATED MECHANICAL*





## VALUE ENGINEERING: EXAMPLE #2

THE TEAM ALIGNED THE BUILDING FOOTPRINT BETWEEN LEVELS 2 AND 3 AND ELIMINATED ELEVATOR #2. AS A RESULT, WE:

- DELETED OCCUPIABLE SPACE BELOW THE DECK SPACE, IMPROVING BUILDING EFFICIENCY AND MINIMIZING THE POTENTIAL FOR FUTURE LEAKS.
- ELIMINATED POTENTIAL DIFFERENTIAL SETTLEMENT CONCERNS.
- REDUCED THE OVERALL BUILDING AREA.
- REMOVED ELEVATOR SHAFT AND GAINED ASSOCIATED SQUARE FOOTAGE ON TWO LEVELS.

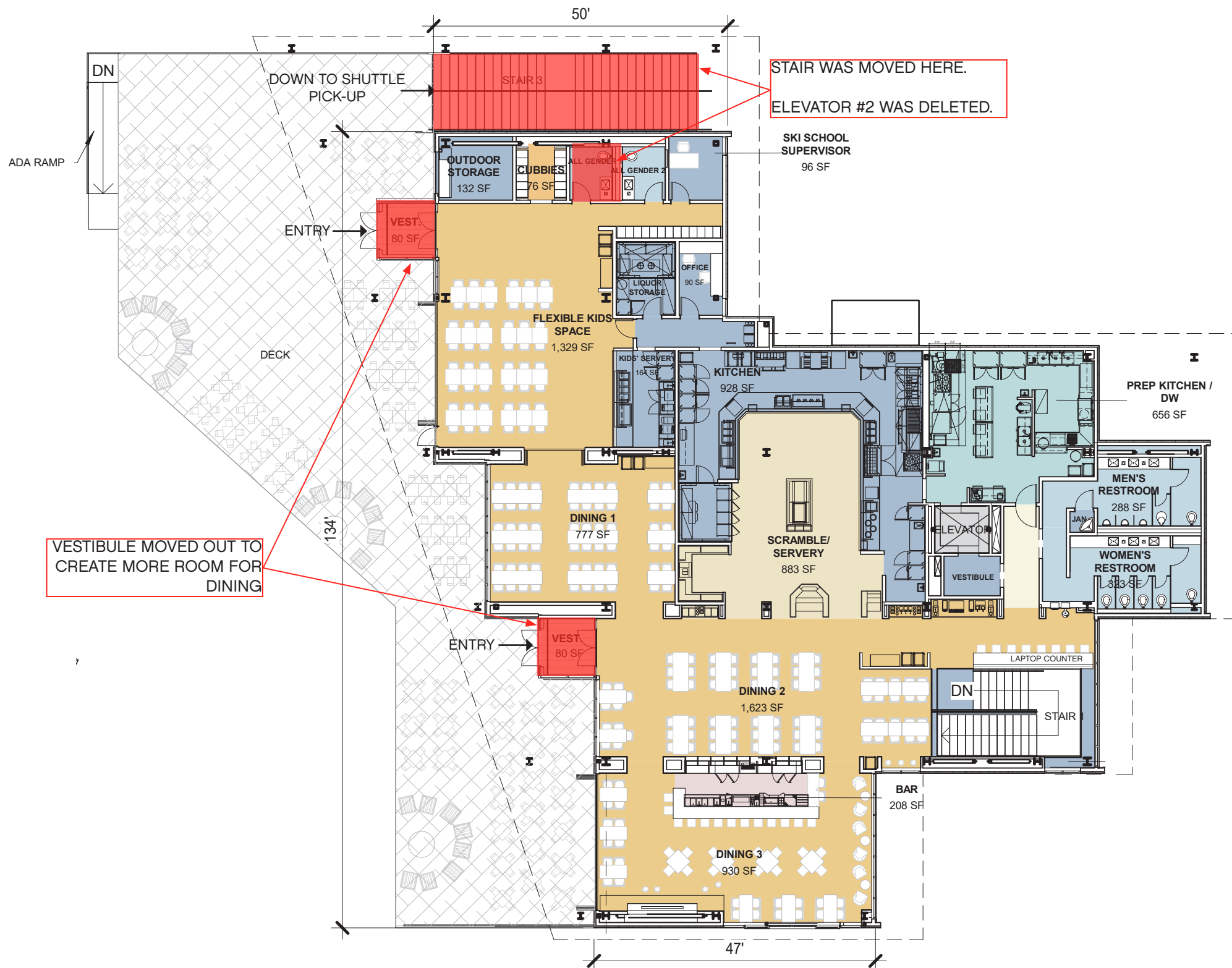
## RELATED BENEFITS:

- MORE EFFICIENT RENTAL LAYOUT WITH NO IMPACT ON OPERATIONS
- NO IMPACT ON RESTROOM COUNTS.

LEVEL 2 FLOOR PLAN WITH VE CHANGES: *FLOOR TO FLOOR ALIGNMENT*







### VALUE ENGINEERING: EXAMPLE #3

THE TEAM RELOCATED THE EXTERIOR STAIR TO THE WEST END OF THE BUILDING. AS A RESULT, WE:

- REDUCED THE AMOUNT OF THE BUILDING'S EXTERIOR ENVELOPE.
- SIMPLIFIED THE BUILDING'S STRUCTURAL SYSTEM AND OVERALL STEEL TONNAGE.
- IMPROVED KITCHEN CONNECTIVITY AND EFFICIENCY (INCLUDING A REDUCTION OF KITCHEN EQUIPMENT).

### RELATED BENEFITS:

- ELIMINATED CONCRETE STAIR FOUNDATION.
- COST EFFECTIVE MODIFICATION OF STRUCTURAL STEEL FINISH.

LEVEL 3 FLOOR PLAN WITH VE CHANGES: *RELOCATED EXTERIOR STAIR*





# C EXTERIOR 3D VIEWS





EXTERIOR VIEW - STREET (WEST) SIDE





EXTERIOR VIEW - SKI LIFT (SOUTH) SIDE





EXTERIOR VIEW - NORTH-EAST SIDE





EXTERIOR VIEW - SOUTH-EAST SIDE





EXTERIOR VIEW - SOUTH DECK





# **D** INTERIOR IMAGERY





INTERIOR VIEW - VIEW OUT FROM BAR AREA





INTERIOR VIEW - BAR AND FIREPLACE





INTERIOR VIEW - BAR





INTERIOR VIEW - VIEW NORTH FROM DINING AREA





INTERIOR VIEW - DINING 2





INTERIOR VIEW - SCRAMBLE/SERVERY AREA





INTERIOR VIEW - VIEW OUT FROM KIDS' DINING/FLEX SPACE





INTERIOR VIEW - KID'S DINING/FLEX SPACE





INTERIOR VIEW - GUEST SERVICES AND RETAIL

# THANK YOU



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