CONSTRUCTION DOCUMENTS

VAIL MECHANIC SHOP EXPANSION

applicable codes

- 2018 INTERNATIONAL BLDG CODE
- 2018 INTERNATIONAL FUHC CODE
- 2018 INTERMATIONAL MCHNL CODE
- 2018 INTERNATIONAL PLUMB CODE
- 2018 INTERNATIONAL RESIDENTIAL CODE
- CITY OF TUCSON/COUNTY OUTDOOR LIGHTING CODE

add alternates

ALT #1 - REPLACE EXISTING LIGHTS IN THE BUS BAYs WITH LED LIGHT FIXTURES
ALT #2 - NEW CONSTRUCTION ON THE MEZZANINE

sheet index

1. GENERAL
   - g1.0 cover sheet
   - g1.1 abbreviations and symbols
   - g1.2 accessibility means details
   - g2.0 code analysis
   - c1.0 civil cover sheet
   - c2.0 private grading, paving and drainage plan
   - c3.0 plan for lndscpl
   - c4.0 code analysis for lndscpl details
   - s1.0 general structural notes
   - s1.1 general structural notes
   - s1.2 special inspections requirements
   - s1.3 typical details
   - s2.0 foundation plan
   - s3.0 foundation details
   - s4.0 s2.0 site plan
   - s5.0 forming details
   - s6.0 forming details
   - A1.0 demolition for first and second electrical plans
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   - A2.1 electrical space and symbol
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   - A2.187 electric...
A. The contractor shall be responsible for verifying the existence and location of all underground or concealed utilities in advance of any construction. The contractor is responsible to have a private utility locating service locate all underground utilities utilized on or near the project site.

B. The subcontractor shall be responsible for verifying any all existing conditions prior to the start of construction. Any utility lines found to be the way of the new construction shall be buried, relocated or otherwise handled as instructed. Prior to plumbing, electrical, mechanical, and/or civil work, plans for specific requirements.

C. It shall be the contractors responsibility to specify all adjacent utilities that interfere with the construction project. The contractors shall be responsible for coordinating with the local utility and traffic crews. The contractors work schedules shall be adjusted to accommodate the construction activities.

D. The contractor shall provide any and all utilities damaged during the course of construction in accordance with local codes and the specifications of the affected trades.

E. The contractor shall notify the owner of all advance of any excavation. Utility locations shall be coordinated with the architect.

F. All items exposed shall be temporarily stored in a location approved by the owner and the owner shall deliver all items prior to any use. Any item is located by backfilling shall remain the contractor’s property, and shall be delivered to storage facilities designated by the owner prior to use. If the owner fails to deliver it on loan, the contractor shall dispose of it.

G. The contractor shall be responsible for the removal and disposal of any item requiring a disposal fee from the contractor.

H. The owner shall be responsible for the removal of any all excess excavation and construction-related debris at the end of each work day.

I. The contractor is advised that any portion of this projects buildings a/and surroundings as a result of the project is to be removed at the contractors expense.

J. It is the contractors responsibility to inspect the job site to familiarize every self with all the existing conditions that could affect the accuracy of any work set forth in these plans.

K. The job site at the completion of construction, shall be cleared of any debris or soils resulting from the construction.

L. The contractor is responsible to field verify all existing records and indicate all existing conditions that impact new construction.

M. The contractor shall establish all quantities based on actual conditions. These drawings are not to be scaled.

N. Block walls are dimensioned to face of block. Dimensions are normal thickness. Block wall openings are dimensioned to rough opening.

O. Metal stud partitions are dimensioned to face of stud. All rough openings are located 4” to nearest adjacent wall unless otherwise noted.

P. Comply with all applicable codes, rules and regulations. Obtain any necessary permits and licenses required.

Q. Refer to building code analysis sheets for additional code requirements.

R. The contractor shall notify the architect at least 48 hours in advance of any construction that requires special inspections.

S. Reference all architectural, civil, landscaping, mechanical, plumbing and electrical sheets for score of work/ coordination.

T. All materials required shall be of a grade and quality consistent with the intended use as specified by the architect.

U. All equipment on materials not shown or specified on the plans or the specifications, but are required to complete the project, shall be furnished by the contractor.

V. Fire and smoke seals are required around penetrations at all floor, wall, deck, and roof penetrations.

W. All penetrations through fire resisting floors or walls shall be protected by materials and installation to comply with the requirements of the building code and shall be completed at the termination of the stop work/pausing for future work. The contractor shall submit manufacturer shop drawings and data sheets for all penetrations.

X. Unless otherwise noted all buildings or roofing material shall be solid wood for all wall mounted items.

Y. Install a continuous bead of sealant at all gaps. Install insulation between outside wall materials.

Z. All exhausts shall be not painted or finished, with a cover when utilized. Refer to floor plans. Room from building sections, details, and specifications for additional painted/finish requirements.

AA. All terminations of carpet, tile, or co at another floor/material shall be transition on adjacent strips. See specs.

BB. All interior finishes shall conform to the requirements of Chap 9 of the 2015 International Building Code.

CC. Provide an Eckroth on each fire penetration & floor area walls, surfaces, typical.

DD. All doors into walls and stairs shall be pre-approved by the architect and structural engineer.

EE. Install drywall control joints at all locations indicated or not indicated as according to the requirements that are established in the specifications.

FF. Fire lanes shall be maintained in a condition to assure access to all buildings during construction.

GG. All new roofing systems to have a class “K” fire rating for specification section 0775.

HH. Upon completion of interior work, drawings shown in the building is prohibited.
<table>
<thead>
<tr>
<th>Note</th>
<th>Item Description</th>
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<tbody>
<tr>
<td>1.</td>
<td>Operable parts shall be placed between 48 inches maximum and 15 inches minimum above the finish floor or ground. Preferred mounting heights are listed above.</td>
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<tr>
<td>2.</td>
<td>All accessories are to have a 4&quot; max. projection unless over fixed accessory with bottom ≤ 27&quot; A.F.F.</td>
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<tr>
<th>Diagram</th>
<th>Description</th>
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<tbody>
<tr>
<td>1.</td>
<td>Accessible restroom accessories</td>
</tr>
<tr>
<td>2.</td>
<td>Electrical devices</td>
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<td>3.</td>
<td>Typical mop rack</td>
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<th>Diagram</th>
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<td>4.</td>
<td>Accessible WC - Front Elevation</td>
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<tr>
<td>5.</td>
<td>Accessible WC - Side Elevation</td>
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<td>6.</td>
<td>Accessible Urinal</td>
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VAIL SCHOOL DISTRICT
VAIL MECHANIC SHOP EXPANSION

GENERAL NOTES - CONTINUED
10. THE FINAL TEST RESULTS ARE APPROPRIATE FROM THE STORM DRAINAGE BASIN BOTTOMS, NOT OTHERWISE ALREADY TREATED, SHALL BE STABILIZED IN THE FORM OF A BERM TO A MINIMUM FLOOR AREA OF 1500 SQUARE FEET. STORM DRAIN BASIN BOTTOMS, NOT OTHERWISE ALREADY TREATED, SHALL BE STABILIZED IN THE FORM OF A BERM TO A MINIMUM FLOOR AREA OF 1500 SQUARE FEET.

STORM DRAIN NOTES
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CONTRACTOR TO VERIFY LOCATION AND INVERT OF POINT

CONNECT TO EXIST 4" SEWER WITH ECCENTRIC REDUCER.

EXCAVATING TIE OVER EXIST 4" WASH BAY SEWER TO NEW LINE.

INNOVATIVE OF CONNECTION PRIOR TO CONSTRUCTION TO

EXIST SEPTIC TANK

ENSURE ADEQUATE FALL

2 (FS 24.24)

3 (F G 24.4 )

(E (F S 24.17)

2 (FS 2 4 .4)

(FFE 24.43)

FL 3222.02

RIM 3224.38

CO #2

RIM 3224.44

F (FL 3221.5)

2 (FS 24.75)

5.50 LF 6" PVC

3.3% @ 1.00%

10'

3 FL 3222.02

3.8% 4.8%

F S 24.75

SPECIAL " WYE BRANCH

INVERT ELEVATION PER PLAN

FINISHED GRADE OR SURFACE

LINE DIAMETER AS SEWER

RISER TO BE SAME

RING AND COVER PER DEETER FOUNDRY INC #1810 OR EQUIVALENT.

IN PAVED AREAS, USE TRAFFIC RATED BOX AND INTERLOCKING

NOTE: BUS BAY FLOOR IS NOT

MAINTENANCE FACILITY

EXPANSION JOINT

SAWCUT AT EXIST

LEVEL - SEE ARCHITECT PLANS

NOTE: FINAL PAVING SECTION MAY VARY DEPENDING ON

RECOMPACT TOP 8" TO 95%

MOISTEN (AS REQUIRED) AND

COMPACTED SUBGRADE. SCARIFY,

A 10' UON

C 2

NO SCALE

M A T C H  E X IS T

F E R M E N T A T I O N  O R  S E W E R

MAINTENANCE FACILITY EXPANSION

NO SCALE

1.5%

15"

X

EAST SECTION

WEST SECTION

MAINTENANCE FACILITY

EXIST MAINTENANCE FACILITY

EXIST

SERVICE TANK

BUS PAVING SECTION

CONCRETE PAVING

private grading, paving and drainage plan

Vail School District

Val Mizner Shop Expansion

FFE 24.75

ADDITION

FACILITY

FFE 24.75

ADDITION

FACILITY

FFE 24.75

ADDITION

FACILITY

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FACILITY

FFE 24.75

ADDITION

FACILITY

FFE 24.75

ADDITION

FACILITY
WATER DISTRIBUTION TO SERVE
VAIL MECHANIC SHOP
EXPANSION FIRE HYDRANT

1. 1 hydrant is provided in this project.
2. Fire plan shall be approved prior to commencement of construction.
3. The contractor is responsible for the location of fire hydrants on streets to be painted in red paint.
4. Above ground hydrants shall be derived from hydrants supplied by the City of Tucson Water Services Department.
5. The developer of the project shall notify the fire department when hydrants are supplied and available.

GENERAL NOTES

1. All hydrants shall be certified by a registered land surveyor.
2. The contractor shall supply all materials and equipment for construction of the project.
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4. The contractor shall supply all materials and equipment for construction of the project.
5. The contractor shall supply all materials and equipment for construction of the project.

INDEX
1. Scales and Table Sheet
2. Contract Sheet

LOCATION MAP

NOTE: PROJECT

OWNER/DEVELOPER

DATE: 01/28/2021

APPROVED:

DATE:

DRAWN BY:

DESIGNED BY:

VAIL WATER COMPANY

VAIL, ARIZONA 85641

13801 EAST BENSON HIGHWAY

VAIL SCHOOL DISTRICT No. 20

1-8" x 6" REDUCER
1-8" x 22 1/2° BEND
W/PROTECTION POSTS
1-6" FIRE HYDRANT
1-8" VALVE, B & C
10" EXPANSION FIRE HYDRANT

VAIL TRANSPORTATION YARD

RANCHO DEL LAGO
SEG 20050871131

N 8 9°24'55"E 221.69'

WL1     S 00°35'05" E      47.20'

PLAN NO.

SHEET:

COVER AND PLAN SHEET

INNOVATIVE EXCAVATING
305-10-0040

09 10

SECTION 09, T 16 S, R16 E

C3

NEW 8" DIP

TAB

28-JAN-2021

INPUT GRID FACTOR: 1.00000000  NOTE: ALL UNITS IN THIS REPORT ARE IN FEET UNLESS SPECIFIED OTHERWISE.

WATER LINE TABLE

<table>
<thead>
<tr>
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<tbody>
<tr>
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RINCON VALLEY FIRE DISTRICT WATER PLAN

GENERAL NOTES

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13801 EAST BENSON HIGHWAY

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13801 EAST BENSON HIGHWAY

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</table>
**general notes**

1. Coordinate with Civil.

---

**keynotes**

1.11 Existing asphalt paving to remain.
2.4 Remove storage shed and concrete slab.
2.16 Remove asphalt for new addition. Refer to Civil.
2.17 Remove concrete.
3.1 Precast concrete splash block at each downsput with rip rap u.n.o. See Civil.
3.3 Concrete sidewalk, see Civil.
3.7 Concrete curb, see Civil.
3.12 Equipment pad, see details.
7.11 Sheet metal downsput, prefished.
7.16 Remove existing downsput and replace with a new sheet metal downsput, prefished.
7.17 Fire hydrant, see Civil.
22.10 Hose bib, see plumbing.
23.1 Mechanical equipment, refer to mechanical.
32.12 Asphalt paving, refer to Civil.
32.12 Readjust grades at downsput. See Civil.
DOWNSPOUT ABOVE SCOUR APRON DEPRESS 4" & 2'-0" WIDE, EA. SIDE OF SPLASHBLOCK.

CONTINUATION SEE CIVIL 3:1 SIDE SLOPE EACH SIDE & ENDS.

PRE-CAST CONCRETE SPLASHBLOCK D 50 RIPRAP ROCK ON FILTER FABRIC MIN. 2'-0" MIN. 2'-0" THICKNESS VARIES.

EXP. JOINT 1/2"x 3/4" URETHANE SEALANT OVER 1" FOAM BACKER ROD, BOTH SIDES AND TOP.

CONCRETE SLAB, SEE PLANS CONT. SEALANT & BACKER ROD.

1/8" RAD. TOOLED EDGE TYP.

NEW CONCRETE, SEE CIVIL AND STRUCTURAL.

EXISTING CONCRETE SLAB

CONCRETE SLAB SEE PLANS

1/2" EXPANSION MATERIAL.

10" EXPANSION MATERIAL

EXP. JOINT 1/2"x 3/4" URETHANE SEALANT OVER 1" FOAM BACKER ROD, BOTH SIDES AND TOP.

CONCRETE SLAB, SEE PLANS

CONCRETE SLAB, SEE PLANS

SIDE SLOPE EACH SIDE & ENDS.

SCOUR APRON 6" WIDE, EA. SIDE OF SPLASHBLOCK.

DOWNSPOUT ABOVE

PRECAST CONCRETE SPLASHBLOCK

D. RIPRAP ROCK ON FILTER FABRIC

NEW CONCRETE, SEE CIVIL AND STRUCTURAL.

EXISTING CONCRETE SLAB

CONCRETE SLAB SEE PLANS

10" EXPANSION MATERIAL

CONCRETE SLAB, SEE PLANS

10" EXPANSION MATERIAL

NOTE: EXACT SIZE & LOCATION TO BE COORDINATED WITH ARCHITECT AND EQUIPMENT MANUFACTURER.

CONCRETE SLAB REINF W/ #4 @ 12" O.C. EACH WAY

ABC

1/2" EXPANSION MATERIAL.

CONTINUATION SEALANT & BACKER ROD 3/8" RAD. TOOLED EDGE TYP.

CONCRETE SLAB, SEE PLANS

1/2" EXPANSION MATERIAL.

CONTINUATION SEALANT & BACKER ROD 3/8" RAD. TOOLED EDGE TYP.

CONCRETE SLAB, SEE PLANS

1/2" EXPANSION MATERIAL.

CONTINUATION SEALANT & BACKER ROD 3/8" RAD. TOOLED EDGE TYP.
The first thing we design is your confidence
The first thing we design is your confidence
### S1.2 Special Inspections Requirements

#### Vail School District
Vail Mechanic Shop Expansion
13192 E Mary Ann Cleveland Way
Vail AZ, 85641

---

<table>
<thead>
<tr>
<th>Material</th>
<th>Test/Inspection</th>
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<tbody>
<tr>
<td>Steel</td>
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<tr>
<td>Concrete</td>
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</tr>
</tbody>
</table>

**Note:** Special inspections requirements are detailed in the provided table. For more information, refer to the full document or contact MoE Gate Associates LTD.

---

**MoE Gate Associates LTD**
7350 EAST SPEEDWAY 210
TUCSON, ARIZONA 85710

**Contact:** (520) 326-3700, (520) 326-1148

**Website:** www.swaimaia.com

**Expiration:** 12/31/2023

---

**Date:** 02/01/21

---

**Special Inspection Requirements Table:**

<table>
<thead>
<tr>
<th>Task</th>
<th>Required Special Inspections and Tests</th>
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</thead>
<tbody>
<tr>
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<td></td>
</tr>
</tbody>
</table>

---

**Legend:**
- **Material:**
- **Test/Inspection:**

---

**Note:** This is a partial view of the full special inspections requirements table. For a comprehensive list, refer to the document.

---

**Footer:**

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**Footer:**

---

**Footer:**
The first thing we design is your confidence.
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7350 EAST SPEEDWAY 210
TUCSON, ARIZONA 85710
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OFFICE
FAX
ASSOCIATES LTD
ARCHITECTS AIA

02.01.21
EXPIRES: 12/31/2023

Vail School District
Vail Mechanic Shop Expansion
13192 E Mary Ann Cleveland Way
Vail AZ, 85641
S4.0

Foundation details

Grenier Engineering, Inc.
Professional Engineering Consultants
13192 E Mary Ann Cleveland Way
Vail, AZ 85641
(520) 326-3700
(520) 326-1148
www.swaimaia.com

Typical concrete slab joints
Thickened slab at partition
Typical wall panel attachments
Exterior steel column footing
Wall panel at slab edge
Plan view
Interior steel column footing
Sheet metal panel attachments
Typical detail
Typical concrete slab through

New concrete slab at existing concrete slab
Exterior wall at masonry back
Steel stud wall at existing footing
New slab to existing
Anchor belt equipment

Typical rod X-brace connection at column
New slab at new exterior door
The first thing we design is your confidence.
general notes

1. DO NOT SCALE DRAWINGS. COORDINATE ALL WORK BETWEEN ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, COMMUNICATIONS AND ELECTRICAL DRAWINGS. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE IMPLEMENTATION OF WORK.

2. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL COORDINATION AS REQUIRED.

keynotes

1.12 EXISTING ELECTRICAL CABINET TO REMAIN.
1.13 EXISTING STRUCTURE TO REMAIN.
1.14 EXISTING 42" GUARDRAIL SYSTEM TO REMAIN.
2.1 REMOVE 8" METAL STUD GIRTS AT 7'-4" AND 15'-0" WITH INTERNAL METAL COLUMNS WALL. SALVAGE METAL PANELS FOR REUSE.
2.2 REMOVE WALL.
2.3 REMOVE DOOR AND FRAME.
2.4 REMOVE STORAGE SHED AND CONCRETE SLAB.
2.5 REMOVE WINDOW. REPAIR AND REPAINT WALL AS NEEDED.
2.6 REMOVE AND RELocate IT EQUIPMENT, CAP CONDUIT AS NEEDED.
2.7 REMOVE DOOR AND FRAME, PAINT, PATCH AND REPAIR WALL AS NEEDED.
2.8 REMOVE GUARD RAIL (ALT #2)
2.9 REMOVE PLUMBING FIXTURE. PREPARE WALL FOR NEW FUTURE.
2.10 REMOVE WALL VENT. PAINT, PATCH AND REPAIR WALL AS NEEDED. (ALT #4)
2.11 REMOVE EXISTING RUBBER HEATER.
2.12 REMOVE WALL MOUNTED MIRROR. PREPARE WALL FOR NEW WALL MOUNTED MIRROR.
2.13 REMOVE COUNTER. REPAIR AND REPAINT WALL AS NEEDED.
2.14 REMOVE 36" LF OF RUSTED METAL PANEL. REPAIR WITH SALVAGED METAL PANEL FROM DEMOLISHED NORTH WALL.
2.15 REMOVE EXISTING WINDOW AND DEMO THE EXISTING WALL AS NEEDED TO INSTALLATION OF THE NEW WINDOW. PAINT, PATCH AND REPAIR AS NEEDED.
2.16 REMOVE 2 DAMAGED METAL PANELS WITH SALVAGED METAL PANELS FROM NORTH WALL.
2.17 REMOVE EXISTING WALL AND EXISTING CEILING AS NEEDED TO EXTEND EXISTING WATER LINES TO THE MEZZANINE. PAINT, PATCH AND REPAIR WALL AS NEEDED.
2.18 SHEET METAL DOWNSPOUT; PREFINISHED.
DO NOT SCALE DRAWINGS. COORDINATE ALL WORK BETWEEN ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, COMMUNICATION AND ELECTRICAL DRAWINGS. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE IMPLEMENTATION OF WORK.

REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL APPLICABLE CODES FOR REQUIRED CLEARANCES OF EQUIPMENT.

PATCH AND REPAIR EXISTING ROOF SCRIM AS NEEDED.

**general notes**

1. EXISTING ROOF HATCH TO REMAIN.
2. EXISTING LIGHT TO REMAIN.
3. REMOVE WALL.
4. REMOVE STORAGE SHED AND CONCRETE SLAB.
5. REMOVE EXISTING LIGHTS - ALT #1.
6. DEMO GAS LINE FOR NEW CONSTRUCTION AT MEZZANINE. PATCH AND REPAIR EXISTING ELEMENTS AS NEEDED.
7. REMOVE EXISTING MECHANICAL SUPPLY REGISTER.
8. DEMO EXISTING WALL AND EXISTING CEILING AS NEEDED TO EXTEND EXISTING WATER LINES TO THE MEZZANINE. PATCH, REPAIR AND PAINT WALL AS NEEDED. SEE PLUMBING PLANS.
9. REMOVE EXISTING DOWNSPOUT AND REPLACE WITH A NEW SHEET METAL DOWNSPOUT, PREFINISHED.

**keynotes**

1. EXISTING ROOF HATCH TO REMAIN.
2. EXISTING LIGHT TO REMAIN.
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**general notes**

2'-0" x 4'-0" SUSPENDED CEILING GRID ASSEMBLY

2'-0" x 2'-0" SUSPENDED CEILING GRID ASSEMBLY

2' x 4' LIGHT FIXTURE

WALL SCONCE

RECESSED CAN LAMP

EXIT SIGN

EMERGENCY LIGHTING

MECHANICAL SUPPLY REGISTER

MECHANICAL RETURN REGISTER

MECHANICAL EXHAUST REGISTER

GYPSUM WALLBOARD SOFFIT / CEILING

HIGH BAY LIGHT FIXTURE

ROOF HATCH

**reflected ceiling plan - demo ground rcp**

**reflected ceiling plan - demo mezzanine rcp**

**job**

1116.58

**date**

02.01.21

**Vail School District**

7350 EAST SPEEDWAY 210

TUCSON, ARIZONA 85710

(520) 326-3700

www.swaimaia.com

ASSOCIATES LTD

ARCHITECTS AIA

**rev**

02.01.21

**scale**

1/8" = 1'-0"
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2. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL APPLICABLE CODES FOR REQUIRED CLEARANCES OF EQUIPMENT.

**General Notes**

- 2' x 4' Suspended Ceiling Grid Assembly
- 2' x 2' Suspended Ceiling Grid Assembly
- 2' x 4' Light Fixture
- Wall Sconce
- Exit Sign
- High Bay Light Fixture
- Mechanical Supply Register
- Mechanical Return Register
- Mechanical Exhaust Register
- Gypsum Wallboard Soffit / Ceiling
- Roof Hatch

**Keynotes**

1.8 Existing roof hatch to remain.
5.3 Steel beam, refer to structural.
5.4 Steel framing, refer to structural.
5.8 Steel cross bracing, refer to structural.
5.10 Metal soffit panel.
5.15 Tube steel, support, see structural.
7.14 Gutter, prefabricated.
7.17 White sconce, see specs.
9.8 2' x 2' Act System - Alt #1
9.9 Grid ceiling, patch and repair as needed.
23.1 Mechanical equipment, refer to mechanical.
23.2 Ductwork, refer to mechanical.
23.3 Raise the gas line above the lay in ceiling grid.
26.5 Light fixture, refer to electrical.
26.6 LED light fixture, Alt #1, refer to electrical.
26.10 LED light fixture, refer to electrical.
26.11 Power cord reel.

**Reflected Ceiling Plan**

- 1/8" = 1'-0"
1. Do not scale drawings. Coordinate all work between architectural, structural, mechanical, plumbing, communications and electrical drawings. Coordinate all work with the architect prior to the implementation of work.

2. Refer to plumbing, mechanical and electrical drawings for all applicable codes for required clearances of equipment.

3. See mechanical, plumbing and electrical for all penetrations through roofs. Refer to typical details.

4. Roof heights shown are top roof unusable.
keynotes

2.23 REMOVE AND REPLACE EXISTING GUTTER WITH A PREFABRICATED GUTTER
3.1 PRECAST CONCRETE SPLASH BLOCK AT EACH DOWNSPOUT WITH RIP RAP U.N.O. SEE CIVIL
3.6 CONCRETE FOOTING REFER TO STRUCTURAL
5.2 STEEL COLUMN REFER TO STRUCTURAL
5.3 STEEL BEAM REFER TO STRUCTURAL
5.8 STEEL CROSS BRACING REFER TO STRUCTURAL
5.11 MODIFY EXISTING STEEL PIPE GUARDRAIL AND REATTACH TO MATCH EXISTING - ALT #2
5.12 METAL PANEL SEE SPEC
5.13 METAL SIDING PANEL
5.14 INTERIOR METAL PANELS SEE SPEC
6.3 PLASTIC LAMINATE COUNTERTOP
6.9 DOUBLE DOOR BASE CABINET 2 DRAWERS - ALT #2
6.12 DOUBLE DOOR UPPER CABINET 2 SHELVES - ALT #2
6.18 4X6 BATT INSULATION AT ROOF
7.11 SHEET METAL DOWNSPOUT PREFINISHED
7.17 WHITE BOARD SEE SPEC
7.1 LED LIGHT FIXTURE - ALT #1, REFER TO ELECTRICAL
7.9 R-13 BATT INSULATION AT EXTERIOR WALLS
7.8 R-25 BATT INSULATION AT ROOF
8.1 HM DOOR AND FRAME REFER TO DOOR SCHEDULE
8.11 INTERIOR METAL PANEL LINER SEE SPECS
8.2 REMOVE AND REPLACE EXISTING GUTTER WITH A PREFABRICATED GUTTER
8.3 PLASTIC LAMINATE COUNTERTOP
8.6 SLIDING GLASS WINDOW
8.7 WALL MOUNTED TV PROVIDE BLOCKING, POWER AND DATA
8.9 INFILL DEMOLISHED WALL OPENING SEE A9.0 FOR WALL TYPES
8.11 SHEET METAL DOWNSPOUT WITH RIP RAP U.N.O. SEE CIVIL
8.13 WALL MOUNTED TV PROVIDE BLOCKING, POWER AND DATA
9.11 SHEET METAL DOWNSPOUT WITH RIP RAP U.N.O. SEE CIVIL
9.13 METAL SOFFIT PANEL
9.14 MODIFY EXISTING STEEL PIPE GUARDRAIL AND REATTACH TO MATCH EXISTING ALT #2
10.11 MODIFY EXISTING STEEL PIPE GUARDRAIL AND REATTACH TO MATCH EXISTING - ALT #2
11.3 REFRIGERATOR 2 DOOR - ALT #1
11.34 GIRD - TYPICAL SEE STRUCTURAL
11.37 PREFABRICATED STANDING SEAM METAL ROOF NO EXPOSED FASTENERS 8.0 BATT INSULATION PREFABRICATED METAL WALL PANELS COVER METAL GUTTERS EXPOSED FASTENED ZIP STICKING
22.3 SINK REFER TO PLUMBING
22.16 HOSE BIB SEE PLUMBING
22.1 MACHINERY EQUIPMENT REFER TO MEP
22.3 ELECTRICAL REFER TO ELECTRICAL
26.1 ELECTRICAL PANEL SEE ELECTRICAL
26.5 LIGHT FIXTURE REFER TO ELECTRICAL
26.8 LED LIGHT FIXTURE - ALT #1 REFER TO ELECTRICAL
26.11 POWER CONDUIT
27.2 SECURITY CAMERA COORDINATE WITH ELECTRICAL AND COMMUNICATION DRAWINGS.
### Door Schedule

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>MATERIAL TYPE</th>
<th>BASE</th>
<th>HEAD</th>
<th>JAMB</th>
<th>HARDWARE</th>
<th>COMMENTS</th>
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<td>HM</td>
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</tr>
</tbody>
</table>

### Door Types

- **1:** Flush
- **2:** Half Glass
- **3:** Full Glass
- **4:** Steel Roll-Up Electric
- **5:** Louver (Top or Bottom)
- **6:** Louver (Top or Bottom)

### Frame Types

- **7:** 01 HM
- **8:** 02 HM
- **9:** 03 HM
- **10:** 04 AL

### Room Schedule

<table>
<thead>
<tr>
<th>NAME</th>
<th>FLOOR FINISH</th>
<th>BASE</th>
<th>NORTH</th>
<th>EAST</th>
<th>SOUTH</th>
<th>WEST</th>
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<td>HM</td>
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</tbody>
</table>

### Room Schedule Abbreviations

- **AL:** Aluminum
- **G:** Glass
- **H:** Half Glass
- **M:** Metal
- **T:** Tempered Glass
- **W:** Wood
- **P:** Prefinished
- **ETR:** Existing To Remain

### Door Schedule Comments

1. PROVIDE TRANSITION STRIP AT INTERIOR CHANGE OF FLOOR FINISH.
2. SEE FLOOR PLAN FOR LIMITS OF MULTIPLE FLOOR FINISHES.
3. ALTERNATIVE #2

### Room Schedule Comments

1. PROVIDE TRANSITION STRIP AT INTERIOR CHANGE OF FLOOR FINISH.
2. SEE FLOOR PLAN FOR LIMITS OF MULTIPLE FLOOR FINISHES.
3. ALTERNATIVE #2
4. GLAZING REQUIREMENTS FOR GLAZED DOORS.

### Finish Legend

- **L:** Louvered (Top or Bottom)
- **N:** Narrow lite
- **NL:** Narrow lite
- **PP:** Performance Paint
- **FP:** Fireproofing
- **EP:** Epoxy Paint
- **ET:** Epoxy Flooring w/ 6" Base
- **ES:** Exposed Structure - Painted

### Door Schedule Abbreviations

- **AL:** Aluminum
- **G1:** 1" Insulated Glazing
- **G2:** 1/2" Sliding Glass
- **IM:** Hollow Metal - Painted
- **MR:** Moisture Resistant
- **MTL:** Metal Ceiling Panel - Prefinished
- **R:** Rubber Base
- **SC:** Sealed Concrete
- **VCT:** Vinyl Composition Tile
- **WD:** Wood Flooring
- **EP/FRP:** Epoxy Floor W/ 6" Base
- **HM:** Hollow Metal
- **EP:** Epoxy Paint
- **G1:** 1" Insulated Glazing
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- **IM:** Hollow Metal - Painted
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- **HM:** Hollow Metal
- **EP:** Epoxy Paint

**Note:** The text contains various abbreviations and specifications related to construction and finishing details. It is a comprehensive list of materials, types, and standards used in the project. The annotations include specific references to floors, doors, and room types, with detailed specifiers for each component. The document is designed to ensure clear communication among the project team regarding the materials and finishes to be used in different areas of the building.
NOTE: PROVIDE 4" P. LAMINATE COVERING BACKSPLASH @ SINK CONDITIONS

NOTE: PROVIDE 4" P. LAMINATE COVERING BACKSPLASH @ SINK CONDITIONS

NOTE: 4" P. LAMINATE BACKSPLASH, SEE ELEVATIONS

NOTE: ALL HARDWARE SHALL BE MOUNTED NO HIGHER THAN 4'-0" A.F.F.

** typical cabinet details**

3 1/2" = 1'-0"

** 34" base cabinet w/ drawer**

5 1 1/2" = 1'-0"

** 34" base cabinet w/ sink and adj shelving**

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

** typical door hardware**

18" = 1'-0"

** upper cabinet above sink**

3 1 1/2" = 1'-0"

** 30" upper cabinet**

3 1 1/2" = 1'-0"
demolition - first floor electrical plan

1. Existing electric panelboards shall remain.
2. Remove existing gutter/junction box on back of mezzanine ledger near electric panel. Any remaining existing circuits entering backside of junction box shall be re-connected to existing panelboards to maintain operation of circuit. It is OK to provide new junction box or boxes in ceiling behind panelboards to splice and extend the existing circuits. (Existing junction box must be removed to allow expansion of the mezzanine, coordinate with structural and architectural work.)

demolition - second floor electrical plan
EXISTING TO REMAIN
NO NEW WORK
IN THIS AREA

REMOVE (E) LIGHTS & DESK LAMPS TO MAKE CONNEXUS & SWITCHES TYPICAL FOR ALL USE LIGHTS & MOUNT UNDER CANOPY VIA DIGITAL TIME SWITCH

FIRST & SECOND FLOOR LIGHTING PLANS

FIRST FLOOR LIGHTING PLAN

SECOND FLOOR LIGHTING PLAN
1. Entire electrical installation shall comply with 2017 edition of NFPA 70, National Electrical Code (NEC) as a means to protect the installation and all local codes and ordinances pertaining to electrical and lighting installations. Provide a list of all equipment to be used in accordance with the requirements of NEC Article 110.3.

2. Contractor shall apply for and obtain permits for the electrical work.

3. Unless otherwise noted, all costs for servicing electrical, telephone, data, and security systems shall be at the responsibility of the承包商, including any necessary labor, material, and equipment.

4. Include and depict all necessary electrical, telephone, data, and security equipment on the drawings.

5. Provide all necessary electrical equipment, including power supplies, controllers, and sensors, for the operation of the system.

6. Provide all necessary electrical equipment, including power supplies, controllers, and sensors, for the operation of the system.

7. All electrical equipment shall have proper overcurrent protection. The fuse sizes shall be designated on the drawings. Provide proper coordination and protection for all equipment and circuits, including fuses, circuit breakers, and other protective devices.

8. Provide all necessary electrical equipment, including power supplies, controllers, and sensors, for the operation of the system.

9. Provide all necessary electrical equipment, including power supplies, controllers, and sensors, for the operation of the system.

10. All equipment shall be suitable for the intended use such as weatherproof when installed outdoors. Service and metering equipment shall comply with NEC Article 110.3.

11. This contract shall include all contingencies which may arise and may be required in the operation of the system. The contractor shall be responsible for coordinating electrical service work with those of other contractors.

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20. This contract shall include all contingencies which may arise and may be required in the operation of the system. The contractor shall be responsible for coordinating electrical service work with those of other contractors.
OCCUPANCY SENSING LIGHT SWITCH SYMBOL LEGEND/DESCRIPTION

- **SYMBOL** indicates light fixture will mount to existing light fixture.
- **LEGEND** indicates light fixture will be mounted to existing light fixture.
- **DESCRIPTION** indicates light fixture will be mounted to existing light fixture.

1. **INTERIOR LIGHTING CONTROLS** comply with the requirements of Section C20.2.
2. The following exceptions apply to the requirements of Section C20.2.
3. The following requirements are added in this section:

1. **PARTIAL LIGHTING** controls will be provided in accordance with the requirements of Section C405.2.3. Daylight responsive controls provided only in daylight zones that are rated individually more than 150W each of general lighting.
2. **TOTAL LIGHTING** controls will be provided for complete coverage of all areas.
3. **PHASE CUT Dimming** controls will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.
4. **INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS.** lighting will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.
5. **STAIRWAYS, RESTROOMS, BUILDING ENTRANCES & LOBBIES, ETC.** lighting will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.
6. **LIGHT REDUCTION CONTROLS PROVIDED.**
   - **Low Voltage Sensors and Wall Control Devices** will be provided in accordance with the requirements of Section C405.2.3. Daylight responsive controls provided only in daylight zones that are rated individually more than 150W each of general lighting.
   - **Low Voltage Scheduling of Lighting Systems** will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.

**OCCUPANCY SENSING LIGHT SWITCH EQUIPMENT SPECIFICATION**

1. **LIGHT FIXTURE SCHEDULE**

---

**INTERNATIONAL ENERGY CONSERVATION CODE 2018 INTERIOR COMPLIANCE**

<table>
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<tr>
<th>BUILDING AREA TYPE</th>
<th>NOTES OR LIMITING PARAMETERS</th>
<th>TABLE C405.2 (1)</th>
<th>ALLOWABLE WATTS/SF</th>
<th>TOTAL INTERIOR POWER</th>
<th>TOTAL INTERIOR POWER</th>
<th>TOTAL INTERIOR POWER</th>
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**OCCUPANCY SENSING LIGHT SWITCH LEGEND/SPECIFICATIONS**

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4. **TOTAL LIGHTING** controls will be provided for complete coverage of all areas.
5. **PHASE CUT Dimming** controls will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.
6. **INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS.** lighting will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.
7. **STAIRWAYS, RESTROOMS, BUILDING ENTRANCES & LOBBIES, ETC.** lighting will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.
8. **LIGHT REDUCTION CONTROLS PROVIDED.**
   - **Low Voltage Sensors and Wall Control Devices** will be provided in accordance with the requirements of Section C405.2.3. Daylight responsive controls provided only in daylight zones that are rated individually more than 150W each of general lighting.
   - **Low Voltage Scheduling of Lighting Systems** will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.

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**LIGHT FIXTURE SCHEDULE**

| PART | UNIT | CATALOG NUMBER | N.T.S. | SIDE | TOTAL | SIDE | TOTAL | SIDE | TOTAL | SIDE | TOTAL | SIDE | TOTAL | SIDE | TOTAL | SIDE | TOTAL | SIDE | TOTAL | SIDE | TOTAL | SIDE | TOTAL |
|------|------|----------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| A    | SUBM | COL/III | LRP00412 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 |
| B    | SUBM | COL/III | LRP00412 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 |
| C    | SUBM | COL/III | LRP00412 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 |
| D    | SUBM | COL/III | LRP00412 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 |
| E    | SUBM | COL/III | LRP00412 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 |
| F    | SUBM | COL/III | LRP00412 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 |
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| J    | SUBM | COL/III | LRP00412 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 | HUE | 320 |

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**OCCUPANCY SENSING LIGHT SWITCH CONTROLS LEGEND/SPECIFICATIONS**

- **SYMBOL** indicates light fixture will mount to existing light fixture.
- **LEGEND** indicates light fixture will be mounted to existing light fixture.
- **DESCRIPTION** indicates light fixture will be mounted to existing light fixture.

1. **INTERIOR LIGHTING CONTROLS** comply with the requirements of Section C20.2.
2. The following exceptions apply to the requirements of Section C20.2.
3. **PARTIAL LIGHTING** controls will be provided in accordance with the requirements of Section C405.2.3. Daylight responsive controls provided only in daylight zones that are rated individually more than 150W each of general lighting.
4. **TOTAL LIGHTING** controls will be provided for complete coverage of all areas.
5. **PHASE CUT Dimming** controls will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.
6. **INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS AND EXIT PASSAGEWAYS.** lighting will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.
7. **STAIRWAYS, RESTROOMS, BUILDING ENTRANCES & LOBBIES, ETC.** lighting will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.
8. **LIGHT REDUCTION CONTROLS PROVIDED.**
   - **Low Voltage Sensors and Wall Control Devices** will be provided in accordance with the requirements of Section C405.2.3. Daylight responsive controls provided only in daylight zones that are rated individually more than 150W each of general lighting.
   - **Low Voltage Scheduling of Lighting Systems** will be provided in accordance with the requirements of Section C405.2.2. Exception 1: Security and emergency areas continuously lighted.
OUTDOOR LIGHTING CODE COMPLIANCE – LUMEN CALCULATIONS

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<th>Lamp/Fixture Type</th>
<th>QUANTITY</th>
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<td>400W HPS</td>
<td>5</td>
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<td>180,000</td>
</tr>
</tbody>
</table>

TOTAL INSTALLED LUMENS: 5,960,240

TOTAL FCO: 1,344,200
TOTAL NON-FCO: 4,616,040

TOTAL INSTALLED LUMENS FOR TOTAL SITE: 5,960,240

31.95 ACRES = 27,062 LUMENS/ACRE

NOTE:
THIS SHEET DOCUMENTS OUTDOOR LIGHTING CODE COMPLIANCE, NO NEW ELECTRICAL WORK IS ShOWN ON THIS SHEET.

FOR EXTERIOR LIGHT FIXTURES ARE 3000K COLOR TEMP. OR WARMER.

TIME SWITCH FOR SIGN – INTERMATIC #ET8015C ELECTRONIC TYPE. PROVIDE NAMEPLATE ON SIGN STATING:

FOR EXTERIOR SIGN - SET OFF TIME FOR SIGN NOT LATER THAN 12:00AM MST IN ACCORDANCE WITH TUCSON OUTDOOR LIGHTING CODE. PENALTIES SHALL NOT EXCEED $750.00 FOR INDIVIDUALS AND $10,000.00 FOR OTHER LEGAL ENTITIES.
1. UNLESS OTHERWISE NOTED, PROTECT ALL DEVICES IN PLACE.
2. REMOVE AND SECURE STORE ALL DEVICES NOTED FOR RELOCATION.
3. EXISTING CABLING RUN FREE AIR SPACE. SUPPORT ALL NEW AND EXISTING CABLING PER TIA-568 STANDARDS WHERE POSSIBLE. REPLACE. DO NOT EXTEND EXISTING CABLES TO BE REUSED.
4. PROVIDE NEW VALCOM UV-863A AND APPROPRIATE COMPONENTS & CONFIGURATION FOR A COMPLETE OPERATIONS PA SYSTEM.