PROJECT TEAM

OWNER

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BUILDING CODE DATA

- ANSI A117.1-2009 & 2010 ADA
- 2012 IECC
- 2012 UMC WITH SOUTHERN NEVADA AMENDMENTS

VICTINITY MAP

DRAWING INDEX

RECORD NO.

SHEET NO.

NOTE: THIS CODE FOR LIVING CONDITIONS ADOPTED BY NEVADA DEPARTMENT OF HEALTH AND HUMAN SERVICES.
CODE ANALYSIS

PLUMBING COUNT:
RESTROOM IS EXISTING AND NO SQUARE FOOTAGE IS BEING ADDED AND OCCUPANCY IS NOT CHANGING

ROBOTICS LAB REMODEL
Nevada State Public Works Division & Nevada State Fire Marshall

M/B
IIIB
YES

13,243 SF
EXISTING

96"
75'-0"
56'-0"

1
3
300'-0"
178'-2"

DESCRIPTION:
JURISDICTION:
CODE:
OCCUPANCY TYPE:
CONSTRUCTION TYPE:
FIRE SPRINKLERS:

ALLOWABLE AREA (Entire Building)

I f = \[F/P - .25\] W/30
\[1314/1324 - .25\]
(.75) 30/30
(.75)

Aa = \[12,500 + (12,500 x .75)\] + \[12,500 x 3\]
12,500 + 9375 + 37,500 =
59,375 total area allowed

Actual Area = Building 1: 54,772 SF
Building 2: 37,119 SF (Separated With 2 Hr Fire Wall)

FLOOR AREA  (Entire Tenant Space)

SECTION 1004.1: OCCUPANT LOAD
SECTION 1005.1: EXIT WIDTH
REQUIRED
PROVIDED
SECTION 1014.3: COMMON PATH OF EGRESS TRAVEL
ALLOWABLE
ACTUAL
SECTION 1015.1: EXIT AND EXIT ACCESS
REQUIRED
PROVIDED
SECTION 1016.2: EXIT ACCESS TRAVEL DISTANCE
ALLOWED
ACTUAL

NO PORTIONS OF THE ENVELOPE ARE BEING MODIFIED. SEE MECH AND ELECT. PLANS FOR IECC CALCULATIONS.

PROVIDE "OCCUPANCY LOAD" SIGN ABOVE DOOR

IECC SYNOPSIS
NO PORTIONS OF THE ENVELOPE ARE BEING MODIFIED. SEE MECH AND ELECTRICAL PLANS FOR IECC CALCULATIONS.

EXISTING 2 HOUR RATED WALL
DIVISION 8 - (CONT'D)

5) TWO ANCHORS PER HEAD FOR FRAMES ABOVE 42 INCHES

4) FIVE ANCHORS PER JAMB PLUS 1 ADDITIONAL ANCHOR PER

C. HOLLOW METAL DOORS:

B. TOLERANCES: FABRICATE HOLLOW METAL WORK TO TOLERANCES

1. FACTORY GLAZING: FACTORY INSTALL GLAZING IN DOORS AS

E. GLAZING: COMPLY WITH REQUIREMENTS IN DIVISION 08 SECTION

D. PREFORMED METAL FRAMES FOR LIGHT OPENINGS: MANUFACTURER'S

B. MOLDINGS FOR GLAZED LITES IN DOORS AND LOOSE STOPS FOR GLAZED

WELDING OR RIGID MECHANICAL ANCHORS.

MULLIONS WITH AT LEAST FOUR SPOT WELDS PER ANCHOR.

MORTISES IN FRAMES AT ALL HINGES AND STRIKE PREPS REGARDLESS

LOCATIONS.

CONTINUOUS 12 GAUGE STRAP FOR CONTINUOUS HINGES SPECIFIED

PERFORMANCE RATING OR WHERE INDICATED. EXTEND MINIMUM 3/4

OR KITS TO FIT. FACTORY INSTALL GLAZING WHERE INDICTED.
1. Where "NO SUBSTITUTE" is noted, submitter and submitter's product is noted. These products are specified with the product being specified. The product is specified with the product being specified.

2. Clean, protect and store existing door hardware in proper installation and operation of door movement as sliding door hardware Ives (ive) Hager, Rockwood.


4. Magnetic locks - HES (HES) NO SUBSTITUTE.

5. WARRANTY DOES NOT COVER DAMAGE OR FAULTY OPERATION DUE TO MECHANICAL: 7 YEARS.

6. Hinge pins: except as otherwise indicated, provide hinge pins with no exposed screws. Provide pin and barrel continuous hinges with electrified lockings component.

7. Width of hinges: 4-1/2 inches (114 mm) at 1-3/4 inches (44 mm) nearest to electrified locking component.

8. Hinges at the doors shall be the doors for use in existing door and frame. The doors for use in existing door and frame.

9. Provide complete re-functional lockset that allows locking and unlocking of the lockset. Provide compression springs in devices, latches, and two-point attachment to door. Match exit device finish, or, if exposed in surfaces of other finish exposed (exposed under any condition) screws to do not use exposed screws.

10. Provide hardware manufactured to conform to published standard form in which manufacturer's standard form in which manufacturer's standard form is noted. Provide hardware manufactured to conform to published standard form in which manufacturer's standard form is noted.

11. Provide complete re-functional lockset that allows locking and unlocking of the lockset. Provide compression springs in devices, latches, and two-point attachment to door. Match exit device finish, or, if exposed in surfaces of other finish exposed (exposed under any condition) screws to do not use exposed screws.

12. Provide pinch protection in door hardware, keying, locating and installing door hardware to comply with division 8 - (cont'd) division 8 - (cont'd).

13. Diverted from the doors shall be the doors for use in existing door and frame. The doors for use in existing door and frame.

14. Provide pinch protection in door hardware, keying, locating and installing door hardware to comply with division 8 - (cont'd) division 8 - (cont'd).

15. Provide pinch protection in door hardware, keying, locating and installing door hardware to comply with division 8 - (cont'd) division 8 - (cont'd).

16. Multi-technology contactless reader shall be suitable for fire exit hardware.

17. Provide pin and barrel continuous hinges with electrified lockings component.

18. Provide pin and barrel continuous hinges with electrified lockings component.

19. Provide pin and barrel continuous hinges with electrified lockings component.

20. Provide pin and barrel continuous hinges with electrified lockings component.
2.2 INTERIOR DOORS:  SECURITY CYLINDERS WITH INTERCHANGEABLE CORES REQUIRING USE OF RESTRICTED, PATENTED KEYING SYSTEMS.

**Specifications:**
- Cylinder body: 1-1/2 inch (38 mm) diameter with 3/4 inch (19 mm) high, beveled 4 edges, and bar.
- Provide offset pulls of solid bar stock, diameter and length back to back with pull.
- Where required, mount push bars of sufficient length to span from center to center of each stile.
- Provide complete assemblies of controls, switches, power, and rectifiers for each strike as required.

**Materials:**
- Steel doors and frames: for surface applied door hardware.
- Prepare hardware locations in accordance with: fasteners, when possible.
- Remove existing hardware being replaced, tag, and store.

**Installation:**
- Follow manufacturer's instructions for installation and adjustment.
- Ensure proper operation and maintain door hardware according to industry standards.
- Provide wall or floor mounted electromagnetic door operators.
- Ensure compatibility with the existing keying system.

**Auxiliary Hardware:**
- Provide panic hardware for emergency egress.
- Provide dust proof strikes for protection against dust and debris.
- Provide panic hardwae and panic replacement parts.

**Quality Control:**
- Conduct inspections, testing, and demonstrations as required.
- Ensure compliance with relevant codes, standards, and specifications.

**Notices:**
- Manufacturer of automatic operator for each door.
- Approval by manufacturer of automatic operator for each door.

**Exhibits:**
- Exhibit A: Architectural hardware consultant for wood flush doors.

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**Drawing No.**
- SFM/SPWD Plan Check
1. Coordinate construction activities included under various sections of these construction documents to assure efficient and orderly installation of each part of the work. Where installation of one part of the work is dependent on installation of other components, either before or after its own installation, schedule construction activities in the sequence required to obtain best results. Where availability of space is limited, coordinate installation of different components to assure maximum accessibility for required maintenance, service and repair. Make adequate provisions to accommodate items scheduled for later installation.

2. Schedule demolition during weather conditions and project status that will ensure the best possible results.

3. Dust permit fees are by contractor.

4. Contractor shall be responsible for temporary fencing, maintaining temporary fencing and securing the property and building access during construction.

5. Do not allow materials and debris generated by demolition activities to accumulate on the job site, remove daily and dispose of in a legal manner.

6. The contractor must take all necessary precautions to ensure the safety of the public and/or workmen on the site to prevent accidents or injury to any person on, about or adjacent to the premises. The contractor shall comply with all laws, ordinances, codes and regulations pertaining to safety and the prevention of accidents.

7. The contractor must maintain adequate support, insulation, waterproofing, emergency lighting, security, alarms, etc. for all or part of items which are to remain.

8. Properly dispose of existing floor fixtures and wall fixtures to be removed. Existing electrical wiring to be removed back to the source.

9. Remove existing floor finishes where indicated, patch and repair sub-floor as required for new floor finishes.

10. Where equipment is being removed, remove the conductors feeding the equipment back to the point of power (circuit breaker or branch circuit tap). Remove accessible conduits, abandon in-place inaccessible conduits, after removal of equipment.

11. Remove all demolished equipment from the property, and dispose of it properly (in accordance with local, state and federal environmental regulations).
NOTE: WALLS OF VESTIBULE WILL FOLLOW THE EXISTING CURB

3 EQUAL BOARD, ALL SIDES WRAP WITH GYPSUM & CONCRETE SLAB, STRUCTURE ABOVE ATTACH TO 3 5/8" BOX JAMB, CONCRETE CURB OF EXISTING STOREFRONT ON TOP

ALIGN WALL AND 3 5/8" BOX JAMB, CONCRETE CURB OF EXISTING STOREFRONT ON TOP

ADD BLACK SCRIM OVER EXISTING INSULATION

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<td>2015</td>
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SPECIFICATIONS

PART 1 - GENERAL REQUIREMENTS

1.1 Description:
A. Scope: The electrical work consists of furnishing everything necessary for and incidental to the execution and completion of all electrical work required by the drawings and specifications for the UNLV Robotics Lab. The Contractor shall furnish labor, materials, tools and equipment as required to complete all items of work on the project.

1.2 Codes:
A. All work shall be in accordance with NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

1.3 Drawings:
A. The Contractor shall not be held responsible for errors of omissions on the drawings except as specified by the drawings. All work shall be in accordance with the instructions of the drawings.

1.4 Substitutions:
A. Substitutions of equal quality and of benefit to the Owner will be evaluated at the Contractor’s request. Any additional cost shall be the responsibility of the Contractor.

1.5 Quality Assurance:
A. All work shall be completed in a neat and workmanlike manner and in accordance with NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

1.6 Panelboards:
A. All work shall be in accordance with the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.0 MATERIALS AND EQUIPMENT:

2.1 Material and Equipment:
A. Material and equipment shall be of the quality and quantity as specified in the drawings and specifications. Equipment shall be new and of the latest design and manufacture. Equipment shall be of good quality and shall be of comparable material and manufacture.

2.2 Source Conditions:
A. All work shall be in accordance with the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.3 Conduits:
A. Conduits shall be approved by the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.4 Cable:
A. Conduits shall be approved by the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.5 Panelboards:
A. Panelboards shall be installed with the top of the cabinet 6'-0" AFF. All work shall be in accordance with the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.6 Disconnects:
A. Disconnects shall be approved by the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.7 Circuit Breakers:
A. Circuit breakers shall be approved by the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.8 Lighting Fixtures:
A. Lighting fixtures shall be approved by the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.9 Electrical Panels:
A. Electrical panels shall be approved by the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.10 Control Wiring:
A. Control wiring shall be approved by the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.11 Special Equipment:
A. Special equipment shall be approved by the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.12 Calculations:
A. Calculations shall be prepared in accordance with NFPA 70E-2000 electrical Safety Requirements for Electrical Installations in the workplace. All work shall be in accordance with the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.

2.13 Guarantee:
A. Guarantee all material furnished and all workmanship performed for a period of one year from the date of final acceptance by the Owner. All work shall be in accordance with the NEC and local governing codes. All work shall be in accordance with the Uniform Building Code for the City of Las Vegas.
EXISTING 2 HOUR RATED WALL

AREA OF WORK
13,243 SF

VACANT SUITE - NOT A PART
3,417 SF

EXISTING RETAIL STORE - NOT A PART
38,112 SF

EXISTING 2 HOUR RATED WALL

VACANT SUITE - NOT A PART
11,267 SF

EXISTING PAINT BALL TENANT - NOT A PART
25,852 SF

BUILDING 1
54,772 SF

BUILDING 2
37,119 SF

ESCONDIDO STREET
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. 
2. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
3. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS WITH MECHANICAL, ELECTRICAL AND PLUMBING PLANS PRIOR TO ROUGH-IN.
4. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE-RATING SYSTEM IN AccordANCE WITH THE CODES OF THE MUNICIPALITIES.
5. ALL ELECTRICAL EQUIPMENT LOCATED OUTSIDE SHALL BE WEATHERPROOF.
6. ALL WALL SWITCHES SHALL BE RECESSED IN WALLS.
7. ALL CONDUIT / CABLE INSTALLATION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
8. PROVIDE UNSWITCHED CONDUCTOR FOR ALL EMERGENCY BALLAST TO MAINTAIN CHARGING CIRCUIT REGARDLESS OF ON/OFF OF RELAY.
9. ALL CONDUITS ARE TO BE CONCEALED WITH EXISTING WALLS. CUT DRYWALL FROM CENTERLINE OF STUD TO CENTERLINE OF STUD. REPAIR WALL AS DIRECTED BY SPECIFICATION AND PER ARCHITECT DIRECTIONS. REPAINT WALL TO MATCH ADJACENT SURFACES.

LIGHTING GENERAL NOTES:
1. NEW LOCATION OF RELOCATED FIXTURE. EXISTING FIXTURE TO BE RELOCATED TO NEW AREA OF WORK.
2. RELOCATED SWITCH FOR EXISTING LIGHTING.
3. LOCATION OF EXISTING FIXTURE
4. EXISTING FIXTURES TO BE REMOVED AS NIGHT LIGHTS.
5. CIRCUIT EXIT SIGNS TO NEAREST EMERGENCY CIRCUIT.
POWER GENERAL NOTES:
1. All receptacles and outlets located on furniture shall be coordinated with architectural drawings prior to rough-in.
2. Verify exact locations of all equipment per architectural drawings.
3. All exterior disconnects shall be NEMA-3R rated.
4. Exterior receptacles shall be in-use weather proof.
5. Refer to schedule and drawings for power and equipment sizes.
6. Number refers to circuit number to be used in area.
7. All conduit and raceway shall be run in accordance with architectural drawings.

POWER KEY NOTES:
1. Coordinate exact location of receptacles with OIT.
2. Provide receptacles and surface mount raceway. Mount Wiremold to floor snug to window wall.
3. Power to floor outlet shall be routed through Wiremold surface mounted raceway.
COMMUNICATIONS GENERAL NOTES:

1. PROVIDE AND INSTALL ALL CONDUIT, WIRE, BOXES, DEVICES, PATCH PANELS, ETC. FOR A COMPLETE DATA/PHONE INSTALLATION AND CONNECTION AT FUTURE IDF ROOM. SEE UNLV TELECOM SPECIFICATION 16741-A FOR REQUIREMENTS.

2. ROUTE 1-1/4" C BACK TO OIT ROOM 111. U.N.O. QUANTITY OF DROPS AND NOTES.

3. ADD CONDUITS ARE TO BE SIMULATED WITH EXISTING WALLS.

COMMUNICATIONS KEY NOTES:

1. PROVIDE AND INSTALL (4) CAT 6 DATA/PHONE CABLES.

2. ROUTE 1-1/4" FROM DATA OUTLET TO OIT IDF ROOM. ROUTE (3) CAT 6 CABLE AND (1) RG6. TERMINATE CAT 6 ON PATCH PANEL. TERMINATE RG6 ON WALL. (1) CAT 6 SHALL BE TERMINATED AT J-BOX AT 72" THE OTHER (2) CAT 6 CABLES SHALL BE ROUTED THROUGH WIREMOLD TO OUTLETS.

3. EXISTING CAT 6 CABLES (APPROXIMATELY 60 TOTAL) ARE COILED ABOVE THIS ROOM. ALL THE EXISTING CABLES ARE TO BE TERMINATED TO NEW PATCH PANELS AND RETESTED.

4. ROUTE 2" BACK TO EXISTING TELEPHONE SERVICE ENTRANCE.

5. PROVIDE WIREMOLD SURFACE RACEWAY. ROUTE (1) HDMI CABLE TO J-BOX AT 72" (SEE NOTE 3) AND (2) CAT6 CABLES (SEE NOTE 3).

6. PROVIDE RECEPTACLES AND SURFACE MOUNT RACEWAY. MOUNT WIREMOLD TO FLOOR SNUG TO WINDOW WALL.

7. MARLOCK CARD READER. INSTALL PER MANUFACTURES SPECIFICATIONS.

8. WIRELESS ACCESS POINTS LOCATED IN CEILING.

COMMUNICATIONS DETAIL KEY NOTES:

1. COORDINATE EXACT LOCATION WITH UNLV OIT.

2. PROVIDE PATCH PANELS AS REQUIRED FOR # OF CAT 6 CABLES.

3. CONTRACTOR TO SUPPLY AND INSTALL LADDER RACK. PROVIDE ACCESS AS NEEDED.