UNIVERSITY OF NEVADA LAS VEGAS
QAL BUILDING

INTERIOR RENOVATION
SCS PROJECT NO. 1640
UNLV PROJECT NO. EPA 1603/PC-5602

100% CONSTRUCTION DOCUMENTS
NOVEMBER 2, 2017

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IMAGE FOR REFERENCE ONLY, NOT FOR CONSTRUCTION
NOVEMBER 2, 2017
UNLV PROJECT NO. EPA 1603/PC-5602

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**ACOUSTICAL PANEL**

**ACOUSTICAL CEILING TILE**

**ACI**

**HVAC**

**GA**

**EL, ELEV**

**EXH**

**D**

**CSK**

**CPT**

**CONC**

**BD**

**#**

**ASSEMBLY**

**AMERICAN NATIONAL STANDARDS INSTITUTE**

**ADJUSTABLE**

**AREA DRAIN**

**ANGLE**

**FLOOR**

**GRADE**

**EXISTING**

**EACH**

**BUILDING**

**COUNTER**

**CONCRETE MASONRY UNITS**

**MAX**

**THK**

**TB**

**TACKBOARD**

**SUSP**

**SQ**

**REF.**

**RB**

**RESILIENT BASE, RUBBER BASE**

**PVC**

**OPP**

**OD**

**MTD**

**UR**

**STAINLESS STEEL**

**SPECIFICATION**

**REQUIRED**

**REFRIGERATOR**

**ROOF DRAIN**

**YARD**

**WITH**

**FACILITIES, j) ASBESTOS PIPE INSULATION ABATEMENT BY GLOVE-BAG PROCEDURE, k) ASBESTOS FILTERS, h) EQUIPMENT AND ENGINEERING CONTROLS, i) DECONTAMINATION ENCLOSURE SYSTEMS**

**COMPRESSOR FAILURE. THESE INSTRUCTIONS SHALL BE POSTED AT ALL WORK AREA ENTRANCES AND 19. JEWERLY IS PROHIBITED TO BE WORN WITHIN ANY CONTAMINATED AREA. OF COSMETICS AT THE INSIDE OF THE WORK PLACE. MAINTENANCE, INCLUSIVE OF CLEAN ROOM STORAGE. ENTRY LOG RECORDS, REPORT ON STOCK OF WORKERS PERSONAL PROTECTIVE EQUIPMENT AND WITH ALL REGULATIONS OF FEDERAL, STATE AND CITY ENVIRONMENTAL CODES APPLICABLE TO ASBESTOS BE KEPT AT THE GENERAL CONTRACTOR'S OFFICE. THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE ENVIRONMENTAL PROTECTION MOST VISIBLE PLACE OF THE JOB SITE. CONTRACTOR SHALL ASURE THAT THE REGULATIONS ARE NOT 10. ALL ABATEMENT WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF 7. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTAL ITEMS REQUIRED 2015 FOR US. ENVIRONMENTAL PROTECTION AGENCY, SUBJECT: FINAL REPORTS, EPA LAS VEGAS 6. PREVIOUS INFORMATION PROVIDED BY OWNER (INCLUDED IN THE PROJECT MANUAL OF THIS 39. MAINTAIN TEMPORARY EGRESS FROM EXISTING FACILITIES AS INDICATED AND AS REQUIRED BY 1854 WITH ALL REGULATIONS OF FEDERAL, STATE AND CITY ENVIRONMENTAL CODES APPLICABLE TO ASBESTOS - STRINGENT SHALL APPLY, OR AS OTHERWISE DIRECTED BY THE AUTHORITY HAVING JURISDICTION 17. CONTRACTOR SHALL COORDINATE ALL CONCRETE SLABS TO SLOPE AWAY FROM BUILDING, TO SLOPE SEALED AND ALL JOINTS CAULKED TO MATCH ADJACENT COLORS APPROVED BY ARCHITECT. 16. ALL CONCRETE FLOORS NOT SCHEDULED TO RECEIVE FLOOR COVERINGS SHALL BE COMPLETELY PROVIDE ASPHALTIC BITUMINOUS SEPARATIONS BETWEEN ALL ADJACENT SURFACES. FINISH, PERPENDICULAR TO THE PATH OF TRAVEL, UNLESS NOTED OTHERWISE. 9. ALL CONCRETE WALKS, RAMPS, STEPS, CURBS AND EQUIPMENT PADS SHALL HAVE A MEDIUM BROOM PERIMETER OF ALL TILE FLOOR AREAS. 8. DISCONNECT, CAP SERVICES AND REMOVE, CLEAN AND STORE SAFE GUARDED THE EQUIPMENT PRODUCE BY SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) WHICH IS COMPLEX IN NATURE AND REQUIRES DETAILED CLOSE SUPERVISION AND FULL COOPERATION VARIATIONS FOUND IN THE FIELD DIFFERENT THAN INDICATED BY THE DOCUMENTS FOR PROMT DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY. STUDY AND USE THESE AS-BUILT DOCUMENTS IN THE BEST MANNER POSSIBLE. CONSULTANT 11.02.17 100% 11/02/17 2985x395 SUBMITTALS, SYMBOLS & VACINITY MAP
GENERAL PROJECT DESCRIPTION

The existing building is a three-story structure with a footprint of 50,000 square feet. The building is located on a site that includes a parking area for 200 vehicles. The building is currently occupied by the University of Nevada, Las Vegas (UNLV) and is open to the public. The building is classified as a Class II occupancy and is subject to the International Building Code (IBC).

BUILDING CODES

- International Building Code, including all applicable codes and standards.
- 2010 International Existing Building Code, Including All Applicable Codes.
- 2010 International Plumbing Code

The building is classified as a Group B occupancy and is subject to the requirements of the IBC. The building has a total of 20 exits, with 13 exterior exits and 7 interior exits. The building also has 21 restrooms, 18 of which are unisex, and 3 are women's only.

CODE ANALYSIS

- Roof Covers Classification: See Table 3002, Table 3003
- Fire Protection Systems: See Table 503
- Emergency Lighting: See Table 602
- Fire ALARM: See Table 503
- Building Accessible & Usable: See A117.1

UNLV AREAS OF THE MSL BUILDING (CALLED EXISTING OCCUPANT LOAD). THE NEW OCCUPANT LOAD OF THE BUILDING IS NOT INCREASED IN COMPLIANCE WITH SECTION 906.

THE EXISTING ARRANGEMENT FOR THE DOORS PROVIDING ACCESS TO THE RESTROOMS DO NOT MEET THE ACCESSIBILITY REQUIREMENTS.

- The existing arrangement for the doors providing access to the restrooms does not meet the accessibility requirements.
- The existing four (4) urinals do not have enough clearance among themselves and do not meet the accessibility requirements. Only one (1) stall does meet the accessibility requirements.
- MALE = 59 OCC.
- FEMALE = 23 OCC.
-總數 = 82 OCC.

PLUMBING FIXTURES

NUMBER OF NEW IN EXISTING

- Water closets (W/C) = 50
- Lavatories (LAV) = 50
- Showers (SH) = 50

Plumbing fixtures are to be replaced as needed to meet the requirements of the IBC.

EXCEPTIONAL CONCERNS CONCERNING OCCUPANT LOAD

There is no signed document available for the construction of the original building and the corresponding total hours of labor required. The building is occupied by the University of Nevada, Las Vegas (UNLV) and is subject to the requirements of the IBC. The building is classified as a Class II occupancy and is subject to the requirements of the IBC. The building has a total of 20 exits, with 13 exterior exits and 7 interior exits. The building also has 21 restrooms, 18 of which are unisex, and 3 are women's only.
LEVEL 1 LIFE SAFETY PLAN
<table>
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<th>ROOM SPACE</th>
<th>FLOORS</th>
<th>WALLS</th>
<th>DOORS &amp; WINDOWS</th>
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<th>PLUMBING</th>
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03.01 BUILD CONCRETE PATH IN ACCORDANCE WITH NATURAL GAS REQUIREMENTS.

05.06 42" HIGH ROUND TUBING METAL RAILING GUARDRAIL.

26.04 INSTALL NATURAL GAS GENERATOR AND LINES PER PLUMBING AND ELECTRICAL DOCUMENTS. REFER TO THESE DOCUMENTS.

32.01 REMOVE LANDSCAPE AND PLANTING FOR AREA SHOWN.
1. All spaces may be showing elements/piping/ducts, associated other elements. Refer to electrical adjacent walls, prepare surfaces to receive new finishes.
2. All spaces require adjusting, patching, repairing the existing surfaces described on floor plan/elevations. During construction, re-install at location.
3. All the spaces of this renovation project require adjusting/repairing, change as required—see chart for operation of existing doors (typ.) new as per specs.
4. All the door hardware requires to be operational.
5. Adjust to the required appropriate elevations, all adjacent walls, prepare surfaces to receive new finishes.
6. All furniture will be provided by UNLV from existing.
7. Existing upper cabinet to be removed and salvaged. Protect during construction and until reinstallation.
8. Contractor shall include hardware.
9. Floor drains, floor sinks, cleanouts and similars - major repairs.
10. Requested.
11. Discontinue appropriately from wiring and be disconnected, capped and removed.
12. Remove flammable cabinet and salvage. Protect during construction and until requested.
13. Remove shelves and dispose appropriately.
14. Remove tiles and dispose appropriately. Patch and refinish adjacent surfaces as required and replace with new finishes.
15. Existing floor finish to remain. Remove damaged.
16. Remove door assembly and dispose appropriately.
17. Remove window assembly and dispose appropriately.
18. Remove pass-thru box and dispose. Infill wall with no keynote.
19. Adjust/repair, change as required—see chart for operation of existing doors (typ.) new as per specs. Refer to finish materials notes on sheet A2.01.
A1.50

1. ALL THE SPACES OF THIS RENOVATION PROJECT REQUIRED ADJUSTING, PATCHING, AND REPAIRING THE EXISTING SURFACES OF FLOOR, WALLS, CEILINGS, AND DOORS TO RECEIVE NEW FINISHES.

2. ALL DOOR HARDWARE REQUIRES TO BE OPERATIONAL. ADJUST/REPAIR, CHANGE AS REQUIRED.

3. ADJUST TO THE REQUIRED APPROPRIATE ELEVATIONS ALL FLOOR DRAINS, FLOOR SINKS, CLEANOUTS AND SIMILARS. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

4. ENSURE ALL FIRE EXTINGUISHERS ARE INSTALLED WITH OPERATION HANDLE OF MAX OF 3'-6" A.F.F. REINSTALL WHERE REQUIRED (TYP.).

5. CONTRACTOR IS REQUIRED TO FIX EXISTING AND COMPLETE ALL BASE FOR THE PROJECT. REFER TO FINISHES FOR TYPE AND COLOR.

6. REMOUNT ALL FIRE EXTINGUISHERS WITH HANDLES AT 3' - 6" A.F.F. IF NOT ALREADY AT THAT HEIGHT.

7. NOT ALL INFORMATION CONCERNING OTHER DISCIPLINES' WORK MAY BE CONTAINED SOLELY IN SUCH DISCIPLINE WORK DOCUMENTS. THE CONTRACTOR IS REQUIRED TO ENSURE, REVIEWING AND USING ALL DISCIPLINES WORK TO COMPLETE ADEQUATELY THE SCOPE OF WORK REQUIRED BY THIS RENOVATION.

PROJECT NAME: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)
OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)
SHEET TITLE: UNIVERSITY OF NEVADA LAS VEGAS (UNLV) UNLV QAL BUILDING - INTERIOR RENOVATION
SCALE: 1/2" = 1'-0"
DATE: 11/02/17
SUBMITTAL SHEET NO.: SC-1640
CONSULTANT: SIMPSON COULTER | STUDIO
PROJECT NO.: SC-1640
CONSTRUCTION DOCUMENTS: 100%

EXISTING REFRIGERATOR WITH GLASS DOORS O.F.C.I.
EXISTING RELOCATED/NEW UPPER CABINET 35"W x 30"H x 12"D WITH SLIDING GLASS DOORS, COLOR TO MATCH EXISTING CABINETS.
EXISTING RELOCATED/NEW UPPER CABINET 42"W x 30"H x 12"D WITH SLIDING GLASS DOORS, COLOR TO MATCH EXISTING CABINETS.
EXISTING RELOCATED/NEW UPPER CABINET 47"W x 30"H x 12"D WITH SLIDING GLASS DOORS, COLOR TO MATCH EXISTING CABINETS.
EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 47"W/48"W.
EXISTING COUNTERTOP TO REMAIN; PROTECT IN PLACE DURING CONSTRUCTION. ADD BRACKET SUPPORTS WHERE NEEDED, TYP.
EXISTING RELOCATED/NEW KNEE SPACE 35"W/36"W.
EXISTING RELOCATED/NEW KNEE SPACE 23.10"W (PT-1) 7"H (PT-1).
EXISTING/RELOCATED DRAIN BOARD.
NEW CHEMICAL RESISTANT COUNTERTOP MATCHING ADJACENT EXISTING.
NEW CHEMICAL RESISTANT BACKSPLASH.
EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
VACUUM AND AIR SYSTEM REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
EXISTING VACUUM AND AIR VALVE.
EXISTING ELECTRICAL POLE TO REMAIN.

RESEARCH LAB 2

SCALE: 1/2" = 1'-0"
1. All the spaces of this renovation project required adjusting, patching, and repairing the existing surfaces of floor, walls, ceilings, and doors to receive new finishes.

2. All door hardware requires to be operational. Adjust/repair, change as required.

3. Adjust to the required appropriate elevations all floor drains, floor sinks, cleanouts, and similars. Refer to plumbing drawings for additional information.

4. Ensure all fire extinguishers are installed with operation handle of max of 3’-6” A.F.F. Reinstall where required (typ.).

5. Contractor is required to fix existing and complete all bases for the project. Refer to finishes for type and color.

6. Remount all fire extinguishers with handles at 3’-6” A.F.F. if not already at that height.

7. Not all information concerning other disciplines’ work may be contained solely in such discipline work documents. The contractor is required to ensure, reviewing and using all disciplines work to complete adequately the scope of work required by this renovation.
ENLARGED FLOOR PLAN SHEET NOTES

1. ALL THE SPACES OF THE THIS RENOVATION PROJECT REQUIRED ADJUSTING, PATCHING, AND REPAIRING THE EXISTING SURFACES OF FLOOR, WALLS, CEILINGS AND DOORS TO RECEIVE NEW FINISHES.

2. ALL DOOR HARDWARE REQUIRES TO BE OPERATIONAL. ADJUST/REPAIR, CHANGE AS REQUIRED.

3. ADJUST TO THE REQUIRED APPROPRIATE ELEVATIONS ALL FLOOR DRAINS, FLOOR SINKS, CLEANOUTS AND SIMILARS. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

4. ENSURE ALL FIRE EXTINGUISHERS ARE INSTALLED WITH OPERATION HANDLE OF MAX OF 3’-6” A.F.F. REINSTALL WHERE REQUIRED (TYP.).

5. CONTRACTOR IS REQUIRED TO FIX EXISTING AND COMPLETE ALL BASE FOR THE PROJECT. REFER TO FINISHES FOR TYPE AND COLOR.

6. REMOUNT ALL FIRE EXTINGUISHERS WITH HANDLES AT 3’-6” A.F.F. IF NOT ALREADY AT THAT HEIGHT.

7. NOT ALL INFORMATION CONCERNING OTHER DISCIPLINES’ WORK MAY BE CONTAINED SOLELY IN SUCH DISCIPLINE WORK DOCUMENTS. THE CONTRACTOR IS REQUIRED TO ENSURE, REVIEWING AND USING ALL DISCIPLINES WORK TO COMPLETE ADEQUATELY THE SCOPE OF WORK REQUIRED BY THIS RENOVATION.

KEYNOTE LEGEND

1. EXISTING RELOCATED FIRE EXTINGUISHER.

2. EXISTING/NEW LAB EQUIPMENT N.I.C. REFER TO ENLARGED PLANS FOR PLAN LOCATION AND NAME.

3. EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 47"W/48"W.

4. NEW 12"D ADJUSTABLE SHELVING WITH EDGE LIP. SECTIONS OF 48" L MAX. START ON 24" WITH INCREMENTS OF 6".

5. EXISTING COUNTERTOP TO REMAIN; PROTECT IN PLACE DURING CONSTRUCTION. ADD BRACKET SUPPORTS WHERE NEEDED, TYP.

6. EXISTING RELOCATED/NEW KNEE SPACE 35"W/36"W.

7. EXISTING LAB SINK AND ASSOCIATED PLUMBING TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION.

8. EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.

9. NEW VACUUM REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.

10. EXISTING VACUUM AND AIR VALVE.

11. EXISTING ACCESS DOOR.

12. DIGITAL DRY BATH 12" x 24"

13. BELLY DANCER 24" x 24"

14. DIGITAL DRY BATH 12" x 24"

15. DIGITAL DRY BATH 12" x 24"

16. DIGITAL DRY BATH 12" x 24"

17. DIGITAL DRY BATH 12" x 24"

18. DIGITAL DRY BATH 12" x 24"

19. DIGITAL DRY BATH 12" x 24"

20. DIGITAL DRY BATH 12" x 24"

21. DIGITAL DRY BATH 12" x 24"

22. DIGITAL DRY BATH 12" x 24"

23. DIGITAL DRY BATH 12" x 24"

24. DIGITAL DRY BATH 12" x 24"

25. DIGITAL DRY BATH 12" x 24"

26. DIGITAL DRY BATH 12" x 24"

27. DIGITAL DRY BATH 12" x 24"

28. DIGITAL DRY BATH 12" x 24"

29. UV LIGHT BOX & CAMERA 24" x 12"

30. UV LIGHT BOX & CAMERA 24" x 12"

31. UV LIGHT BOX & CAMERA 24" x 12"

32. UV LIGHT BOX & CAMERA 24" x 12"

33. UV LIGHT BOX & CAMERA 24" x 12"

34. UV LIGHT BOX & CAMERA 24" x 12"

35. UV LIGHT BOX & CAMERA 24" x 12"

36. UV LIGHT BOX & CAMERA 24" x 12"

37. UV LIGHT BOX & CAMERA 24" x 12"

38. UV LIGHT BOX & CAMERA 24" x 12"

39. UV LIGHT BOX & CAMERA 24" x 12"

40. UV LIGHT BOX & CAMERA 24" x 12"
1. All the spaces of the this renovation project required adjusting, patching, and repairing the existing surfaces of floor, walls, ceilings, and doors to receive new finishes.

2. All door hardware requires to be operational. Adjust/repair, change as required.

3. Adjust to the required appropriate elevations all floor drains, floor sinks, cleanouts, and similars. Refer to plumbing drawings for additional information.

4. Ensure all fire extinguishers are installed with operation handle of max of 3'-6" A.F.F. Reinstall where required (Typ.).

5. Contractor is required to fix existing and complete all base for the project. Refer to finishes for type and color.

6. Remount all fire extinguishers with handles at 3'-6" A.F.F. if not already at that height.

7. Not all information concerning other disciplines' work may be contained solely in such discipline work documents. The contractor is required to ensure, reviewing and using all disciplines work to complete adequately the scope of work required by this renovation.
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**Research Lab 25 Equipment Legend**

1. Water Carboy 24" x 24"

2. Computer Station 26 1/2" x 12"

3. Small Centrifuge 15 1/2" x 12 1/2"

4. Existing/NEW lab equipment N.I.C. Refer to enlarged plans for plan location and name.

5. Existing countertop to remain; protect in place during construction. Add bracket supports where needed, typ.

6. Existing/NEW knee space 30" W.

7. Existing relocated/NEW knee space 47"W/48"W.

8. Existing door leaves only, inclusive of hinges and dispose appropriately; repair frame to receive new finishes.

9. EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.

10. NEW VACUUM REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
1. All the spaces of the renovation project required adjusting, patching, and repairing the existing surfaces of floor, walls, ceilings and doors to receive new finishes.
2. All door hardware requires to be operational. Adjust/repair, change as required.
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**Keynote Legend**

- 12.11 Existing relocated/new upper cabinet 47"W x 30" H x 12"D with sliding glass doors, color to match existing cabinets.
- 12.12 Existing relocated/new 24"W lower cabinet with drawers, color to match existing cabinets.
- 12.14 New chemical resistant resin countertop - color to match existing.
- 12.31 Existing relocated/new sink cabinet 47"W/48"W x 35"H.
- 12.68 Existing relocated/new 35" W x 28 1/2" D x 36" H SW 2 door & 2 top dwrs.
- 12.82 Existing relocated/new 47" W x 28 1/2" D x 36" H base cabinet 16 dwrs.
- 12.83 Existing relocated/new 35" W x 28 1/2" D x 35 1/2" H 2 door & 2 top dwrs.
- 12.84 Existing relocated/new 48" W x 28 1/2" D x 36" H SW 2 door & 2 top dwrs.
- 22.04 New sink, refer to plumbing drawings, connect as required per plumbing drawings see sink legend description above.
- 22.05 Existing access door.
- 22.16 Eye wash accessory sink rod refer to mechanical for additional information.
## Finish Materials List

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<th>No.</th>
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<th>Finishes</th>
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## Room Finish Schedule & Finish Materials List

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DOOR SCHEDULE

LEVEL 1

1 L 16 4' - 0" 7' - 0" 0' - 1 3/4" A 3 ADD LEAF
2 L 21 3' - 0" 7' - 0" 0' - 1 3/4" B 1 FP-1 9 REPAIR CHIPPED ASSEMBLY AS REQUIRED
3 L 37 6' - 0" 6' - 8" 0' - 2" C 2 21 1 HOUR FIRE RATED ASSEMBLY
4 L 40-B 3' - 0" 7' - 0" 0' - 1 3/4" B 1 FP-1 4
5 L 46 3' - 0" 7' - 0" 0' - 1 3/4" B 1 FP-1 3

OVERALL NOTES AND COMMENTS
1. NO STOPS EXCEPT DOOR 7
2. ALL DOORS MISSING KICKERS IN/OUT
3. CONTRACTOR IS REQUIRED DURING THE REQUIRED SITE WALK PRIOR TO BIDDING, TO DETERMINE THE ENTAIL OF THE HARDWARE FOR APPROPRIATE OPERATION OF DOOR ASSEMBLIES.
1. All the spaces of the renovation project required adjusting, patching, and repairing the existing surfaces of floor, walls, ceilings, and doors to receive new finishes.

2. All door hardware requires to be operational. Adjust/repair, change as required.

3. Adjust to the required appropriate elevations all floor drains, floor sinks, cleanouts, and similars. Refer to plumbing drawings for additional information.

4. All furniture will be provided by UNLV from existing coming from other buildings or new - shown in document for reference only.

5. Hollow metal doors and frames paint color, refer to finish materials notes on sheet A2.01.

6. New door assemblies marked on plan per door schedule.

7. Contractor shall include only hardware repair/replacement required for the correct operation of existing doors (typ.)

8. Remount all fire extinguishers with handles at 3' - 6" A.F.F. if not already at that height.

9. Not all information concerning other disciplines' work may be contained solely in such discipline work documents. The contractor is required to ensuring, reviewing, and using all disciplines work to complete adequately the scope of work required by this renovation.

10. Anticipated new rubber bases throughout at following locations:
   - A. Office: 7, 8, 9, 11, 31, 33, 42
   - B. Computer room 34
   - C. Microscope room 10
   - D. Grad students 12
   - E. Techs post docs 14
   - F. Conference room 15
   - G. Research lab: 20, 22, 41, 47
   - H. Clean room 46
   - I. Freezer farm 45

11. Replace damaged or missing portions of rubber bases to match existing at the following locations:
   - A. Research lab: 2, 3, 4, 18, 19, 21, 25, 30, 35, 39, 40
   - B. IDF 29
1. All the spaces of this renovation project required adjusting, patching, and repairing the existing surfaces of floor, walls, ceilings, and doors to receive new finishes. Match existing at the following locations:
   - A. Research Lab: 2, 3, 4, 18, 19, 21, 25, 30, 35, 39, 40
   - A. Office: 7, 8, 9, 11, 31, 33, 42
   - B. Computer Room 34
   - C. Microscope Room 10
   - D. Grad Students 12
   - E. Techs Post Docs 14
   - F. Conference Room 15
   - G. Research Lab: 20, 22, 41, 47
   - H. Clean Room 46
   - I. Freezer Farm 45

2. All door hardware requires to be operational. New door assemblies marked on plan per door schedule.

3. Adjust to the required appropriate elevations all floor, walls, ceilings, and doors to receive new finishes.

4. Tablet new rubber bases throughout at following locations:
   - A. Research Lab: 2, 3, 4, 18, 19, 21, 25, 30, 35, 39, 40
   - A. Office: 7, 8, 9, 11, 31, 33, 42
   - A. Office: 7, 8, 9, 11, 31, 33, 42

5. Anticipated new rubber bases through out at following locations:
   - A. Research Lab: 2, 3, 4, 18, 19, 21, 25, 30, 35, 39, 40
   - A. Office: 7, 8, 9, 11, 31, 33, 42
   - B. Computer Room 34
   - C. Microscope Room 10
   - D. Grad Students 12
   - E. Techs Post Docs 14
   - F. Conference Room 15
   - G. Research Lab: 20, 22, 41, 47
   - H. Clean Room 46
   - I. Freezer Farm 45

6. Remount all fire extinguishers with handles at 3' - 6" above the floor if not already done.

7. Existing HVAC grille/diffuser - replace as shown for curtain and curtain track system, refer to finishes for marker board.

8. Existing access door.

9. Contractor shall exclude only hardware provided per additional information given under spec.

10. Anticipated new rubber bases throughout at following locations:
   - A. Research Lab: 2, 3, 4, 18, 19, 21, 25, 30, 35, 39, 40
   - A. Office: 7, 8, 9, 11, 31, 33, 42
   - B. Computer Room 34
   - C. Microscope Room 10
   - D. Grad Students 12
   - E. Techs Post Docs 14
   - F. Conference Room 15
   - G. Research Lab: 20, 22, 41, 47
   - H. Clean Room 46
   - I. Freezer Farm 45

11. Replace damaged or missing portions of rubber bases to match existing at the following locations:
   - A. Research Lab: 2, 3, 4, 18, 19, 21, 25, 30, 35, 39, 40
   - A. Office: 7, 8, 9, 11, 31, 33, 42
   - B. Computer Room 34
   - C. Microscope Room 10
   - D. Grad Students 12
   - E. Techs Post Docs 14
   - F. Conference Room 15
   - G. Research Lab: 20, 22, 41, 47
   - H. Clean Room 46
   - I. Freezer Farm 45

12. Anticipated new rubber bases throughout at following locations:
   - A. Research Lab: 2, 3, 4, 18, 19, 21, 25, 30, 35, 39, 40
   - A. Office: 7, 8, 9, 11, 31, 33, 42
   - B. Computer Room 34
   - C. Microscope Room 10
   - D. Grad Students 12
   - E. Techs Post Docs 14
   - F. Conference Room 15
   - G. Research Lab: 20, 22, 41, 47
   - H. Clean Room 46
   - I. Freezer Farm 45

13. All the spaces of this renovation project required adjusting, patching, and repairing the existing surfaces of floor, walls, ceilings, and doors to receive new finishes.
1. All the spaces of this renovation project required adjusting, patching, and repairing the existing surfaces of floor, walls, ceilings, and doors to receive new finishes.

2. All door hardware requires to be operational. Adjust/repair, change as required.

3. Adjust to the required appropriate elevations all floor drains, floor sinks, cleanouts, and similars. Refer to plumbing drawings for additional information.

4. All furniture will be provided by UNLV from existing coming from other buildings or new - shown in document for reference only.

5. Hollow metal doors and frames paint color, refer to finish materials notes on sheet A2.01.

6. New door assemblies marked on plan per door schedule.

7. Contractor shall include only hardware repair/replacement required for the correct operation of existing doors (typ.).

8. Remount all fire extinguishers with handles at 3' - 6" A.F.F. if not already at that height.

9. Not all information concerning other disciplines' work may be contained solely in such discipline work documents. The contractor is required to ensure, reviewing, and using all disciplines work to complete adequately the scope of work required by this renovation.

10. Anticipated new rubber bases throughout at following locations:
   - A. Office: 7, 8, 9, 11, 31, 33, 42
   - B. Computer room 34
   - C. Microscope room 10
   - D. Grad students 12
   - E. Techs post docs 14
   - F. Conference room 15
   - G. Research lab: 20, 22, 41, 47
   - H. Clean room 46
   - I. Freezer farm 45

11. Replace damaged or missing portions of rubber bases to match existing at the following locations:
   - A. Research lab: 2, 3, 4, 18, 19, 21, 25, 30, 35, 39, 40
   - B. IDF 29
1. All the spaces of the renovation project required.

2. All door hardware requires to be operational.

3. Adjust to the required appropriate elevations all floor, walls, ceilings and doors to receive new finishes.

4. All furniture will be provided by UNLV from existing coming.

5. Contractor shall include only hardware, materials notes on sheet A2.01.

6. New door assemblies marked on plan per door schedule.

7. All the spaces of the renovation project required.

8. Remount all fire extinguishers with handles at 3' - 6" A.F.F. if not already at that height.

9. Replace damaged or missing portions of rubber bases to contain soley in such discipline work documents. The contractor is required to ensure, reviewing and using all materials notes on sheet A2.01.

10. Anticipated new rubber bases throughout at following locations:
   - Freezer Farm 45
   - Clean Room 46
   - Research Lab: 20, 22, 41, 47
   - Conference Room 15
   - Tech's Post Docs 14
   - Grad Students 12
   - Microscope Room 10
   - Computer Room 34

11. Match existing at the following locations:
   - IDF 29
   - Match existing at the following locations:
     - Freezer Farm 45
     - Clean Room 46
     - Research Lab: 20, 22, 41, 47
     - Conference Room 15
     - Tech's Post Docs 14
     - Grad Students 12
     - Microscope Room 10
     - Computer Room 34

12. All information concerning other disciplines' work may not be contained solely in such discipline work documents. The not already at that height.

13. Repair/replacement required for the correct operation of hollow metal doors and frames paint color, refer to finish reference only.

14. Plumbing drawings for additional information.

15. Drain, floor sinks, cleanouts and similars. Refer to plumbing drawings for additional information.

16. Details 7/S2.01. Refer to mechanical drawings for additional information.

17. Section 01 31 32 for bases of design LG split units and provided per additional information given under spec.

18. Mounting support and installation as recommended (accommodate to adjacent existing conditions).

19. Trim and closing off sound-flanking paths around partition. Comply with ASTM C919 for locating edge continuous bead of acoustical sealant on both sides joints and at openings and penetrations with a seal construction at perimeters, behind control

20. Lay-in. Brace as required per structural drawings. Where possible or a min. of 6" above existing 2'x4' ceiling terminating at underside of original ceiling.
1. All the spaces of the renovation project required adjusting, patching, and repairing the existing surfaces of floor, walls, ceilings and doors to receive new finishes.
2. All door hardware requires to be operational. Adjust/repair, change as required.
3. Adjust to the required appropriate elevations all floor drains, floor sinks, cleanouts and similars. Refer to plumbing drawings for additional information.
4. All furniture will be provided by UNLV from existing coming from other buildings or new - shown in document for reference only.
5. Hollow metal doors and frames paint color, refer to finish materials notes on sheet A2.01.
6. New door assemblies marked on plan per door schedule.
7. Contractor shall include only hardware repair/replacement required for the correct operation of existing doors (typ.)
8. Remount all fire extinguishers with handles at 3’-6" A.F.F. if not already at that height.
9. Not all information concerning other disciplines’ work may be contained solely in such discipline work documents. The contractor is required to ensure, reviewing and using all disciplines work to complete adequately the scope of work required by this renovation.
10. Anticipated new rubber bases throughout at following locations:
   A. Office: 7, 8, 9, 11, 31, 33, 42
   B. Computer Room 34
   C. Microscope Room 10
   D. Grad Students 12
   E. Techs Post Docs 14
   F. Conference Room 15
   G. Research Lab: 20, 22, 41, 47
   H. Clean Room 46
   I. Freezer Farm 45
11. Replace damaged or missing portions of rubber bases to match existing at the following locations
   A. Research Lab: 2, 3, 4, 18, 19, 21, 25, 30, 35, 39, 40
   B. IDF 29
1. EXISTING LAB CABINETRY REMAINING IN PLACE SHALL RECEIVE IN-SITU PAINT OF THE EXPOSED SURFACES TO THE VIEW OF THE USERS IN ACCORDANCE WITH THE REQUIREMENTS STATED ELSEWHERE IN THESE DOCUMENTS.

2. EXISTING CASEWORK BEING DEMOUNTED AND RELOCATED WITHIN OTHER ROOMS OF THIS RENOVATION SHALL BE PAINTED TO MATCH THE COLOR OF EXISTING OTHER CASEWORK/CABINETRY WHERE THEY ARE BEING MOVED. PAINT SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS STATED ELSEWHERE IN THESE DOCUMENTS.

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08.03 CREATE OPENING IN WALLS TO SUITE DOOR ASSEMBLY
SCHEDULE. PATCH AND REFINISH ADJACENT SURFACES AS REQUIRED.

09.03 REMOVE EXISTING FLOOR FINISHES AND INSTALL NEW FLOOR FINISH MATERIALS AS IT APPLIES.

09.04 EXISTING FLOOR FINISH TO REMAIN. REMOVE DAMAGED FLOOR FINISH AS REQUIRED AND REPLACE WITH NEW TO MATCH EXISTING.

SCALE: 1/8" = 1'-0"
GENERAL STRUCTURAL NOTES

COLD FORMED STEEL FRAMING:
- COLD-FORMED STEEL FRAMING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS" By the American Iron and Steel Institute.
- All cold-formed steel members shall be designed in accordance with the provisions of the applicable code, including those related to connections such as screws, bolts, and rivets.

INSPECTION NOTES:
- The following are examples of the types of work listed in this chapter:
  - Wall Studs
  - Wood Stud Walls
  - Steel Stud Walls
  - Wood Furring Strips
  - Metal Furring Strips

MASONRY INCORPORATING SCREW ANCHORS, EXPANSION/WEDGE ANCHORS, SLEEVE HOLE CLEANOUT, EPOXY MIXING AND PLACEMENT PROCEDURES, AND EMBEDMENT DEPTH IN ACCORDANCE THE CONTRACT DRAWINGS AND THE MANUFACTURER'S INFORMATION FOR CLARITY. WHERE DISCREPANCIES OCCUR IN THESE DRAWINGS, NOTES AND DETAILS WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT OTHERS. ALLOW FIVE WORKING DAYS FOR THE ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

FOUNDATION:
- ALL FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "AASHTO LRFD CODE FOR HIGHWAY AND BRIDGE STRUCTURES" AND "ICBO NATIONAL BUILDING CODES AND STANDARDS" AS AMENDED. THE FOUNDATION SHALL BE DESIGNED TO WITHSTAND THE LOADS AND MOMENTS CALCULATED TO BE APPLIED TO THE FOUNDATION BASED ON THE LOADS AND MOMENTS CALCULATED TO BE APPLIED TO THE STRUCTURE.

ADDITIONAL CODES OR DIRECTIVES:
- OTHER SPECIALIZED CODES OR DIRECTIVES (HUD, OSHA, ASSHTO, ETC.) MAY APPLY. THE PARTIES HERETO HAVE AGREED TO COOPERATE IN THE PREPARATION OF THE SPECIFICATIONS AND DRAWINGS TO ENSURE COMPLIANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS.

SUBMITTAL:
- ALL SUBMITTALS FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. THE REVIEW DOES NOT REPLACE THE RESPONSIBILITY OF THE OWNER, DEVELOPER, CONTRACTOR, OR ANY OTHER PARTY TO THE CONSTRUCTION OF THE WORK. THE REVIEW IS PERFORMED FOR GENERAL COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS PROVIDED. THE REVIEWER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE SUBMITTAL MATERIALS.

PUBLIC RECORDS:
- ALL DRAWINGS AND DOCUMENTS SUBMITTED TO THE BUILDING DEPARTMENT SHALL BE MAINTAINED ON FILE AT THE OFFICE OF THE OWNER, DEVELOPER, CONTRACTOR, OR ANY OTHER PARTY TO THE CONSTRUCTION OF THE WORK. THE PUBLIC RECORDS SHALL BE AVAILABLE FOR INSPECTION BY THE INSPECTOR AND ANY OTHER PARTY TO THE CONSTRUCTION OF THE WORK.

SPECIAL INSPECTORS:
- THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS WHO SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION FOR THE TYPES OF WORK LISTED IN THIS CHAPTER.
SELECTED MATERIAL. POUR AND PATCH CONCRETE AS REQUIRED. CONCRETE SLAB AND SAWCUT IT AS REQUIRED TO REPAIR THE SUBSTRATE PER THE ARCHITECTURAL PLANS. REMOVE EXISTING FLOORING. REVIEW THE KEYNOTES AND REVISIONS.

- Remove existing slab.
- Sawcut and break out.
- Use Simpson Set-XP Epoxy in drilled hole with #4 dowel x 24" at 24" OC.
- Use Simpson Metal Clip H5420-10."}

**Mechanical Unit Anchorage**
- Use Simpson Metal Plate for anchorage.
- Use Simpson Metal Strap for anchorage.
- Use Simpson Metal Strap to Wall - Typical.
- Use Simpson Metal Strap to Studs - Typical.
- Use #8 Metal Screws into Studs, or (3) #8 Wood Screws into Studs - Typical.
- Use #8 Unit Mounting Screws into Studs - Typical.
- Use #8 Unit Mounting Plate provided by the manufacturer.

**Foundations**
- Use Simpson Metal Strap
- Use Simpson Metal Plate
- Use Simpson Metal Strap to Wall

**Steel Stud Wall Extension**
- Use Simpson Metal Strap
- Use Simpson Metal Plate
- Use Simpson Metal Strap to Wall

**Wood Stud Extension at Wall**
- Use Simpson Metal Strap
- Use Simpson Metal Plate
- Use Simpson Metal Strap to Wall
1. All conduit and wiring from removed devices shall be removed back to source.
2. Provide power continuation to downstream devices.
3. Conduit in inaccessible locations shall be capped off and to remain in place.
4. Wiring shall not be abandoned in inaccessible conduits.
5. Provide updated, typed panel directories for all panel boards with circuits modified, added or removed.
6. All existing recessed receptacles to remain as-is unless noted otherwise.
7. Remove any extra light switches that are not required or in operation.
1. All conduit and wiring from removed devices shall be removed back to source.

2. Provide power continuation to down stream devices.

3. Conduit in inaccessible locations shall be capped off and to remain in place.

4. Wiring shall not be abandoned in inaccessible locations.

5. Provide updated, typed panel directories for all panel boards with circuits modified, added or removed.

6. All existing recessed receptacles to remain as-is unless noted otherwise.
GENERAL SHEET NOTES

1. EXACT LOCATION OF ALL RELOCATED LIGHT FIXTURES.
2. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN.
3. COORDINATE RELOCATED LIGHT FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT AND DUCT WORK PRIOR TO ROUGH-IN.
4. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
5. ALL ELECTRICAL EQUIPMENT LOCATED OUTDOORS SHALL BE WEATHERPROOF.
6. ALL CONDUIT/CABLE INSTALLATION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.

7. PROVIDE UNSWITCHED CONDUCTOR FOR ALL EMERGENCY OF ON/OFF OF RELAY.
8. CONTRACTOR TO THOROUGHLY CLEAN EXISTING LIGHT FIXTURES AND RELAMP WITH 5000K 32W LAMPS.

BID ALTERNATIVE:
CONTRACTOR TO PROVIDE A BID ALTERNATE TO REPLACE ALL THE EXISTING LIGHT FIXTURE'S LAMPS WITH LED LAMPS IN LIEU OF REPLACING THEM.
<table>
<thead>
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<td>EML ROOM 9, RECEPT R UNIT 7 1200 720</td>
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1. CONTRACTOR TO REMOVE AND REPLACE FACP (FIRE ALARM CONTROL PANEL).
2. CONTRACTOR TO EXTEND COMMUNICATION AND OPERABILITY FROM NEWLY INSTALLED FACP LOCATED IN EPA QAL BLDG. TO FAA (FIRE ALARM COMMUNICATION TRANSMITTER) LOCATED AT EPA MSL BUILDING.
3. CONDUIT PATH AND ELECTRICAL CONNECTIVITY FOR FIRE MARSHAL APPROVAL PRIOR TO START OF
4. ALL FIRE ALARM DEVICES TO HAVE DEDICATED AC
5. ALL INSTALLED FIRE ALARM EQUIPMENT MUST BE ACCESSIBLE FOR MAINTENANCE AND TESTING.
6. ALL SMOKE DETECTORS TO BE LOCATED AT LEAST 36" FROM HVAC SUPPLY AND RETURN GRILLS.
7. CONTRACTOR TO REMOVE ALL EXISTING FIRE ALARM COMPONENTS THAT WILL NO LONGER BE IN USE.
8. EXISTING CONDUIT DEDICATED CIRCUITS, SPRINKLERS, AND PLUMBING TO REMAIN IN PLACE AND TO BE USED WITH NEW ADDRESSABLE SYSTEM.
9. CONTRACTOR TO DEVELOP THE SCOPE OF WORK REQUIRED FOR A NEW FIRE ALARM MONITORING THE EXISTING WET SPRINKLER SYSTEM WHICH IS THE MINIMUM REQUIRED BY THE CURRENT CODES.
10. CONTRACTOR SCOPE OF WORK IS TO COVER THE WORK OF REMOVING ALL EXISTING FIRE ALARM ELEMENTS NOT REQUIRED BY THIS NEW SYSTEM (EXCLUDING PLUMBING/WET SPRINKLER SYSTEM), ENSURING THE CORRECT OPERABILITY OF THE EXISTING FIRE ALARM REMAINING NEED TO BE TESTED BY CERTIFIED CONTRACTOR FOR COMPLIANCE. CONTRACTOR TO COORDINATE WITH SIGMA FOR DEVELOPING ANY PLANS OF EXTENDING EXISTING WET SPRINKLER SYSTEM.
GENERAL SHEET NOTES

1. CONTRACTOR TO EXTEND COMMUNICATION AND OPERABILITY FROM NEWLY INSTALLED FACP LOCATED IN EPA QAL BLDG. TO FAA (FIRE ALARM COMMUNICATION TRANSMITTER) LOCATED AT EPA MSL BUILDING. CONDUIT PATH AND ELECTRICAL CONNECTIVITY FOR FIRE MARSHAL APPROVAL PRIOR TO START OF INSTALLATION.

2. ALL FIRE ALARM DEVICES TO HAVE DEDICATED AC CIRCUITS.

3. ALL INSTALLED FIRE ALARM EQUIPMENT MUST BE ACCESSIBLE FOR MAINTENANCE AND TESTING.

4. CONTRACTOR TO REMOVE ALL EXISTING FIRE ALARM COMPONENTS THAT WILL NO LONGER BE IN USE.

5. EXISTING CONDUIT DEDICATED CIRCUITS, SPRINKLERS, AND PLUMBING TO REMAIN IN PLACE AND TO BE USED WITH NEW ADDRESSABLE SYSTEM.

6. CONTRACTOR TO DEVELOP THE SCOPE OF WORK FOR #8CU REQUIRED FOR A NEW FIRE ALARM MONITORING THE ADDITIONAL APPROVED BUILDINGS REQUIRED BY THE CURRENT CODES.

7. CONTRACTOR SCOPE OF WORK IS TO COVER THE WORK OF REMOVING ALL EXISTING FIRE ALARM ELEMENTS NOT REQUIRED BY THIS NEW SYSTEM (EXCLUDING CORRECT OPERABILITY OF THE EXISTING FIRE ALARM FOR ALL OTHER BUILDINGS STILL ATTACHED TO IT.

8. BOTH THE NEW SYSTEM AND THE OLD FIRE ALARM REMAINING NEED TO BE TESTED BY CERTIFIED CONTRACTOR FOR COMPLIANCE. CONTRACTOR TO COORDINATE WITH SIGMA FOR DEVELOPING ANY PLANS OF EXTENDING EXISTING WET SPRINKER SYSTEM.

9. EXISTING SPRINKLERS WILL NEED TO BE EXTENDED IN OBSTRUCT THE WET SYSTEM. THESE AREAS WILL ALSO NEED TO HAVE SENSORS ADDED TO THE EXTENDED ROOM WHICH MAY EFFECT COMPLIANCE OF THE CLEAN.

10. EXTENSION OF EXISTING WET SPRINKLERS AND SENSORS SHOULD BE LIMITED TO AREAS THAT HAVE EITHER BEEN SUBDIVIDED OR AN OBSTRUCTION HAS BEEN PLACE IN THE INTENDED AREA OF FIRE SUPPRESSION AND SHOULD NOT EXCEED MORE THAN A FEW FEET PER AREA. ANY MODIFICATIONS THAT EXCEED THESE REQUIREMENTS MUST BE APPROVED BY UNLV.

11. CONTRACTOR TO SUBMITTED BY CERTIFIED FPE AT A LATER TIME FOR APPROVAL.
1. CONTRACTOR TO REMOVE ALL EXISTING DATA JACKS, CATEGORY 5, SINGLE AND MULTIMODE FIBER BACK TO THEIR SOURCE.

2. CONTRACTOR TO REMOVE EXISTING POWER TO DOOR MAGNET HOLDS THE DOOR HARDWARE MAGNETS AND ELECTRICAL LINES FEEDING THEM ARE TO BE KEPT IN PLACE.

3. CONTRACTOR TO REMOVE THE EXISTING CARD READERS FOR THE MAIN DOORS. CARD READERS WILL BE REPLACED WITH NEW CARD READERS AS NOTED AND MUST ENSURE THAT PREMISE IS SECURE WHILE REMOVING AND REPLACING EXISTING SYSTEM. THE OLD CARD READER NEED TO BE REMOVED AND RETURNED TO EPA.

4. ENSURE THAT THE ELECTRICAL EXIT SIGNAGES ARE UP TO DATE AND CODE COMPLIANT.

5. THE MICROSCOPE ROOM WILL NEED TO BE IN COMPLETE DARKNESS AND YET ALLOW USERS TO WALK INTO SPACE. THE MAIN LIGHT OVER THE VESTIBULE (OF THE NEW LAYOUT, USING THE CURTAINS) NEEDS TO BE THE MINIMUM FT CANDLE LIGHT POSSIBLE PER CODE. ALL A SEPARATE LIGHT SWITCH WITH A COVER TO PREVENT REVISIONS.

6. DATA ROOM/IDF: CONTRACTOR TO REMOVE ALL CABLES, UNUSED RACKS, BACKBOARDS, DECOMMISSIONED EQUIPMENT ETC. THAT WILL NO LONGER BE IN-USE OR IS BEING RELOCATED TO NEWLY DESIGNATED IDF (ROOM #46).

7. CONTRACTOR TO REMOVE ALL EXISTING SURFACE MOUNTED RACEWAY AND ALL CABLE TRAY BACK TO EXISTING DATA RACK.
1. For the requirements on routing and support of all low voltage cable refer to the specification 27 00 00.

2. Outlet and (1) 1"C (in stud walls) or (2) 3/4"C (in furred walls) from each data outlet to nearest accessible ceiling space then plenum rated cables are to run to IDF.

3. Locate all data outlets adjacent to computer.

4. Provide a six foot service loop of CAT 6 cable at each conduit stub-up.

5. Provide Wiremold G4000 divided raceway for all surface mounted raceway. Provide all fittings specified G400 surface mounted raceway not to exceed 40% fill ratio.

6. Each newly installed cable should be tested end to end and test reports shall be provided to the owner. Note: Any cable distance over 295ft. should to be installed at ceiling height in noted otherwise noted.

7. Freezer Room #45 does not currently have a data cable ingress path. A penetration will be

8. Provide POE data port for wireless access point.
1. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING SECURITY FOR THE SITE DURING THE COURSE OF CONSTRUCTION AS WORK IS BEING CONDUCTED ON THE INTRUSION ALARM SYSTEM. SECURITY WILL BE REQUIRED UNTIL UNLV SECURITY SYSTEMS HAS FULLY ACCEPTED THE INTRUSION ALARM SYSTEM IN ITS ENTIRETY FROM THE CONTRACTOR.

2. CONTRACTOR SHALL PROVIDE ALL EXISTING SECURITY CAMERA EQUIPMENT FROM DUST AND OTHER HAZARDS THROUGHOUT THE COURSE OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT IF IT IS DAMAGED DURING CONSTRUCTION.

3. CONTRACTOR MAY COMBINE CONDUITS FOR RUNS TO SBB OR SCB.

4. CONTRACTOR SHALL PROVIDE A PULL BOX AFTER EVERY TWO 90 DEGREE BENDS/SWEEPS FOR ALL CONDUIT RUNS.

5. ALL INTRUSION ALARM SYSTEM HORIZONTAL CONDUIT SHALL BE 1" MINIMUM. THE CONTRACTOR SHALL BE ROUTED IN CONDUIT DESIGNATED FOR THE INTRUSION ALARM SYSTEM.

6. CONTRACTOR SHALL PROVIDE A PULL BOX AFTER EVERY TWO 90 DEGREE BEND/SWEEP.

7. ALL SERVICE / JUNCTION BOXES SHALL BE LOCATED ABOVE AN ACCESSIBLE CEILING SPACE. REFERENCE THAT DO NOT HAVE AN ACCESSIBLE CEILING SPACE.

8. IF ANY PART OF THE SECURITY CAMERA SYSTEM IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO FURNISH AND INSTALL A MATCHING DEVICE IN ITS PLACE OR ONE APPROVED BY UNLV SECURITY SYSTEMS.

9. CONTRACTOR SHALL FURNISH AND INSTALL A DEDICATED CONDUIT PATHWAY SYSTEM FOR THE NEW INTRUSION ALARM SYSTEM BEING INSTALLED FOR THIS PROJECT.

10. FURNISH AND INSTALL A TAMPER PLUNGER CONTACTS, GE-SENTROL (PART # 3012N), AS REQUIRED BY DESIGN.

11. CONTRACTOR SHALL FURNISH AND INSTALL 5.6K RESISTORS FOR END OF LINES AS REQUIRED BY DESIGN.

12. CONDUIT ROUGH-IN REQUIREMENTS ARE FOR TYPICAL INSTALLATIONS AND DO NOT REFLECT EVERY SITE.
GENERAL NOTES:
1. ALL WIRES SHALL BE IN 1"C (MIN.).
2. ALL CONDUIT SHALL BE SURFACE MOUNTED WIRE MOLDING.
3. EXPOSED WIRES ARE NOT ACCEPTABLE.
4. ALL DEVICES NUMBERS INDICATED ON PLANS SHALL BE VERIFIED WITH THE SPECIFICATIONS.

ACCESS CONTROL - CONTRACTOR TO REFERENCE UNLV PLANNING AND CONSTRUCTION STANDARDS MANUAL, DIVISION 8/ CONSTRUCTION STANDARDS/ 08740 ELECTRICAL LOCKING SYSTEMS.

C1 CONTRACTOR TO PROVIDE AND INSTALL CHATSWORTH LADDER TRAY (PART# 10250-718) UNIVERSAL CABLE RUNWAY, 18"W, BLACK. WITH ALL THE COMPONENTS TO MAKE A COMPLETE SYSTEM. INSTALLED PER THE MANUFACTURE RECOMMENDATION.

1. VERTICAL TRANSITION FROM HORIZONTAL INGRESS.

C2 CHATSWORTH UNIVERSAL HORIZONTAL CABLE MANGER 2 RMU, 19"W, SINGLE-SIDED, BLACK (PART # 30130-719).

2. VERTICAL TRANSITION FROM HORIZONTAL INGRESS TO PRE-DETERMINED HORIZONTAL RECEPTACLE LOCATION.

C3 PROVIDE AND INSTALL CHATSWORTH MEGAFRAME CABINET(PART# SK-8905-03) 19"W X 39"D X 7'H, MULTI-MOUNT RAILS, W/FAN KIT. WITH ALL THE COMPONENTS TO MAKE A COMPLETE SYSTEM. INSTALLED PER THE MANUFACTURE RECOMMENDATION.

2. PRE-DETERMINED HORIZONTAL "T" RECEPTACLE LOCATION.

DATA ROOM

3. DATA RACK DATA ROOM

WIREMOLD DETAIL

1. WIREMOLD DETAIL

TYPICAL 2 DOOR LAYOUT CONFIG

TYPICAL SINGLE DOOR WITH DOOR CONTACT AND ELECTRIC

LV3.02