UNIVERSITY OF NEVADA LAS VEGAS
QAL BUILDING

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

IMAGE FOR REFERENCE ONLY, NOT FOR CONSTRUCTION

100% CONSTRUCTION DOCUMENTS

NOVEMBER 2, 2017

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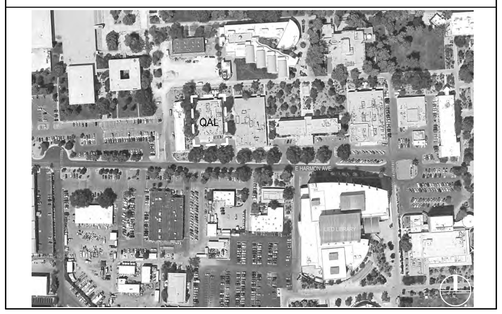
UNLV PROJECT NO. EPA 1603/PC-5602

VICINITY MAP



ABBREVIATIONS

&	AND
@	AT
∠	ANGLE
℄	CENTERLINE
∅	DIAMETER, ROUND, PHASE
=	EQUAL
'	FOOT, FEET
"	INCH, INCHES
#	POUND, NUMBER
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACOUSTICAL PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ASS'Y	ASSEMBLY
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AT	ACOUSTICAL CEILING TILE
A/V	AUDIO/VISUAL
BOT	BOTTOM
BD	BOARD
BFC	BROOM FINISHED CONCRETE
BLDG	BUILDING
BRG	BEARING
C.F.C.I.	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
C.F.O.I.	CONTRACTOR FURNISHED, OWNER INSTALLED
CG	CORNER GUARD
CL OR CLR	CLEAR
CLG	CEILING
CMU	CONCRETE MASONRY UNITS
CNTR	COUNTER
CO	CLEAR OPENING
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONT	CONTINUOUS
CPT	CARPET
CP	CEMENT PLASTER
CT	CERAMIC TILE
CSK	COUNTER SINK
D	PENNY (NAILS, ETC.)
DBL	DOUBLE
DEG	DEGREE
DEPT	DEPARTMENT
DTL	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DW	DISHWASHER
DWG	DRAWING
EA	EACH
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM
EL, ELEV	ELEVATION
ELEC	ELECTRICAL
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH
FLR	FLOOR
FS	FLOOR SAFE, FLOOR SINK
FT	FOOT OR FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR, GYPSUM BOARD
GFI	GROUND FAULT INTERRUPTER
GR	GRADE
GYP. BD.	GYPSUM BOARD
HB	HOSE BIBB
HDWD	HARDWOOD
HDWR	HARDWARE
HORIZ	HORIZONTAL
HVAC	HEATING, VENTILATING, AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IN	INCH OR INCHES
INCL	INCLUDE OR INCLUDED
INFO	INFORMATION
INT	INTERIOR
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
LB, LBS	POUND, POUNDS
MATL	MATERIALS
MAX	MAXIMUM
MB	MARKER BOARD
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MED	MEDIUM
MTL	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM, MINUTE
MISC.	MISCELLANEOUS
MO	MASONRY OPENING
MS	MOP STRIP
MTD	MOUNTED
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
NOM	NOMINAL
NVE.	NEVADA ENERGY
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED, OWNER INSTALLED
OPNG	OPENING
OPP	OPPOSITE
PLAM	PLASTIC LAMINATE
PL	PROPERTY LINE
PL	PLATE
PLYWD	PLYWOOD
PTD	PAPER TOWEL DISPENSER
PVC	POLY VINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS
RA	RETURN AIR
RB	RESILIENT BASE, RUBBER BASE
RD	ROOF DRAIN
REF.	REFRIGERATOR
REQ'D	REQUIRED
REV	REVISION, REVERSE
RH	ROBE HOOK
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
SA	SUPPLY AIR
SC	SOLID CORE, SEALED CONCRETE
SCR	SHOWER CURTAIN AND ROD
SD	SOAP DISPENSER, SMOKE DAMPER
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SL	LOCKERS
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
T.O.C.	TOP OF CURB
T & G	TONGUE AND GROOVE
TB	TACKBOARD
THK	THICK
T.O.	TOP OF
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TPTB	TREATED PLYWOOD TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
VERT	VERTICAL
V.I.F.	VERIFY IN FIELD
VCT	VINYL COMPOSITION TILE
W/	WITH
W.C.	WATER CLOSET
WD	WOOD
WF	WOOD FLOORING
W/O	WITHOUT
W.P.	WORK POINT, WALL PADDING
W.I.	WROUGHT IRON
YD	YARD

ABATEMENT GENERAL NOTES

1. PRIOR TO COMMENCEMENT OF THE WORK, THE CONTRACTOR SHALL CAREFULLY EXAMINE THE EXISTING SITE AND BUILDING WHERE THE WORK RENOVATION IS PROPOSED, AS WELL AS ITS ADJACENT AREAS AND SEEK OTHER USUAL SOURCES OF INFORMATION ABOUT THE SITE AND EXISTING BUILDING CONDITIONS, MATERIALS, REPORTS, ETC. THE CONTRACTOR WILL BE CONCLUSIVELY PRESUMED TO HAVE FULL KNOWLEDGE OF ANY AND ALL CONDITIONS ON THE SITE AND EXISTING BUILDING RELATING TO OR AFFECTING IN ANY WAY THE PERFORMANCE OF THE WORK.

2. ALL ABATEMENT PROCEDURES SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT FEDERAL, STATE AND CITY ENVIRONMENTAL AND BUILDING CODES..

3. ALL APPLICABLE SPECIFICATIONS AND PROCEDURES KNOWN, PERMITTED AND REGULATED SHALL BE ENFORCED AND APPLICABLE TO THE ASBESTOS AND LEAD PAINT ABATEMENT WORK, INCLUDING SECURING ALL REQUIRED PERMITS, CERTIFICATES AND LICENSES. WHEN A CONFLICT IN REGULATIONS EXISTS, THE MOST STRINGENT SHALL APPLY, OR AS OTHERWISE DIRECTED BY THE AUTHORITY HAVING JURISDICTION AND ARCHITECT/ENGINEER.

4. CONSISTENT WITH POLICIES AND PROCEDURES, THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO MAKE CHANGES FROM TIME TO TIME, WHEN DEEMED NECESSARY, IN THIS SCOPE OF SERVICES.

5. THE CONTRACTOR SCOPE OF WORK SHALL ENCOMPASS THE ABATEMENT OF THE SURFACES, AREAS, SUBSURFACES CONTAINING MATERIALS DETERMINED WITH ASBESTOS AND/ OR LEAD PAINT KNOWN IN ADVANCE AND OR FOUND WHILE THE DEVELOPMENT OF THE CONSTRUCTION PURPOSE OF THIS RENOVATION.

6. PREVIOUS INFORMATION PROVIDED BY OWNER (INCLUDED IN THE PROJECT MANUAL OF THIS RENOVATION) CONTAINS THE ASBESTOS REPORT MADE BY BOOZ ALLEN HAMILTON INC, DATED NOVEMBER 9, 2015 FOR US. ENVIRONMENTAL PROTECTION AGENCY, SUBJECT: FINAL REPORTS, EPA LAS VEGAS ENVIRONMENTAL DUE DILIGENCE PROCESS (EDDP), ASBESTOS CONSULTING SERVICES, PROGRAM OPERATIONS SUPPORT (POS) BUILDING AND QUALITY ASSURANCE LABORATORY (QAL) BUILDING. CONTRACTOR SHALL STRATEGIZED THE SEQUENCE OF OPERATIONS, CONSTRUCTION, SCHEDULING, ETC., TO ENSURE THE ABATEMENT OF THE SURFACES, AREAS, SPACES, ETC. ARE COMPLETED UNDER THE MOST STRICT ENVIRONMENTAL REQUIREMENTS WITHOUT DELAYING THE CONSTRUCTION PROCESS AND THE FINAL COMPLETION DAY ESTABLISHED.

7. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTAL ITEMS REQUIRED TO PERFORM THE WORK OF ABATEMENT, INCLUSIVE, BUT NOT LIMITED TO THE FOLLOWING: a) COMPLIANCE AND COMPLETION CERTIFICATIONS, b) WORK AREA PREPARATION AND ISOLATION, c) PROTECTING CLOTHING AND EQUIPMENT FOR ASBESTOS ABATEMENT, d) POLYETHYLENE WASTE BAGS (6-MIL), e) POLYETHYLENE SHEETING (6-MIL), f) GLOVE BAG (6-MIL), g) RESPIRATOR H.E.P.A. (HIGH EFFICIENCY PARTICULATE AIR) FILTERS, h) EQUIPMENT AND ENGINEERING CONTROLS, i) DECONTAMINATION ENCLOSURE SYSTEMS FACILITIES, j) ASBESTOS PIPE INSULATION ABATEMENT BY GLOVE-BAG PROCEDURE, k) ASBESTOS SURFACING MATERIAL ABATEMENTS BY: 1) FULL ISOLATION, 2) TENT, l) CLEAN-UP OF WORK AREA, HEPA (HIGH EFFICIENCY PARTICULATE AIR) VACUUMING AND WET CLEANING OF ASBESTOS CONTAMINATED SURFACES, k) ENCLOSURE CONTAINMENT OF ASBESTOS CONTAINING MATERIAL INCLUSIVE OF FRIABLE AN NON-FRIABLE, l) PERSONAL AIR MONITORING, m) LOCK DOWN ENCAPSULATION, n) FINAL CLEAN UP OF WORK AREA, o) STORAGE AND DISPOSAL OF ASBESTOS CONTAINING WASTE & DEBRIS: 1) NON-ASBESTOS CONTAINING, 2) CONTAINING ASBESTOS, p) LABOR FOR CERTIFIED ASBESTOS SUPERVISORS, q) LABOR FOR CERTIFIED ASBESTOS HANDLERS, r) TEMPORARY SHOWER UNIT WITH HOT AND COLD WATER, s) HEATING OF THE WORK AREA IF NECESSARY, t) TEMPORARY TOILET FACILITIES, u) TEMPORARY DRINKING FOUNTAIN WATER.

8. AVAILABLE ELECTRICITY MAY BE USED FOR LIGHTING AND FOR SMALL POWER TOOLS WHILE DOING THE ABATEMENT WORK. INCLUDE TEMPORARY ELECTRICAL GENERATOR(S) IF NECESSARY TO SUPPORT THE ASBESTOS ABATEMENT PROCESS.

9. AVAILABLE WATER MAY BE USED BY THE ABATEMENT CONTRACTOR, PROVIDED DEDICATED HOSES ARE DESIGNATED TO BRING THE WATER, AND THESE HOSE CONNECTIONS ARE KEPT TIGHT. WATER MAY BE USED FOR THE DECONTAMINATION. , STEPS, CURBS AND EQUIPMENT PADS SHALL HAVE A MEDIUM BROOM FINISH, PERPENDICULAR TO THE PATH OF TRAVEL, UNLESS NOTED OTHERWISE.

10. ALL ABATEMENT WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE ENVIRONMENTAL PROTECTION AGENCY (EPA), NEVADA AND LAS VEGAS DEPARTMENT OF LABOR, NEVADA STATE AND LAS VEGAS DEPARTMENT OF ENVIRONMENTAL PROTECTION/ ASBESTOS CONTROL PROGRAM AND ALL OTHER FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, CODES, AND STANDARDS, AS APPLICABLE, AND AS MAY BE REVISED OR ADDED DURING THE TERM OF THIS RENOVATION WORK.

11. CONTRACTOR SHALL PROVIDE AND POST CURRENT EDITIONS OF EACH APPLICABLE REGULATION IN A MOST VISIBLE PLACE OF THE JOB SITE. CONTRACTOR SHALL ASURE THAT THE REGULATIONS ARE NOT ALTERED, DEFACED, OR COVERED BY OTHER MATERIALS. ONE COPY OF EACH CURRENT REGULATION SHALL BE KEPT AT THE GENERAL CONTRACTOR'S OFFICE.

12. CONTRACTOR SHALL POST TELEPHONE NUMBERS FOR LOCAL EMERGENCY SERVICES AT THE JOB SITE.

13. THE ASBESTOS ABATEMENT CONTRACTOR, UNDER THE CONTRACT OF THE GENERAL CONTRACTOR MUST HAVE A MINIMUM OF THREE YEARS EXPERIENCE IN ASBESTOS ABATEMENT PROJECTS THAT COMPLIED WITH ALL REGULATIONS OF FEDERAL, STATE AND CITY ENVIRONMENTAL CODES APPLICABLE TO ASBESTOS ABATEMENT WORK. THE STAFFED PERSONNEL OF THE ASBESTOS ABATEMENT CONTRACTOR SHALL HAVE BEEN CERTIFIED IN THE SAME.

14. ABATEMENT CONTRACTOR SHALL PROVIDE DAILY REPORTS OF SCOPE OF WORK COVERED/ COMPLETED, ENTRY LOG RECORDS, REPORT ON STOCK OF WORKERS PERSONAL PROTECTIVE EQUIPMENT AND MAINTENANCE, INCLUSIVE OF CLEAN ROOM STORAGE.

15. THE USE OF NON-DISPOSABLE COVERALLS SHALL NOT BE A SUBSTITUTE FOR PROTECTIVE CLOTHING.

16. NON-DISPOSABLE COVERALLS SHALL BE CONSIDERED AS TOOLS UPON THEIR ENTRY INTO THE WORK AREA, WHICH CAN BE DECONTAMINATED ONLY BY A SPECIAL LAUNDERING FACILITY.

17. ALL PERSONS ENTERING THE WORK AREA SHALL WEAR AN APPROVED RESPIRATOR AND PROTECTED CLOTHING. THERE SHALL BE NO EXCEPTIONS TO THIS RULE.

18. THERE SHALL BE NO SMOKING, EATING, DRINKING OR CHEWING OF GUM OR TOBACCO OR APPLICATION OF COSMETICS AT THE INSIDE OF THE WORK PLACE.

19. JEWERLY IS PROHIBITED TO BE WORN WITHIN ANY CONTAMINATED AREA.

20. CONTRACTOR MUST PROVIDE EVACUATION PROCEDURES TO BE FOLLOWED IN THE EVENT OF COMPRESSOR FAILURE. THESE INSTRUCTIONS SHALL BE POSTED AT ALL WORK AREA ENTRANCES AND SHALL BE EXPLAINED BY THE ASBESTOS HANDLER SUPERVISOR TO ALL WORKERS PRIOR COMMENCEMENT OF WORK.

21. SAFETY INSPECTIONS OF AIRLINE HOSES SHALL BE CONDUCTED AS DETERMINED BY AHJ. THE MAXIMUM AIR HOSE LENGTH SHALL BE 300 FEET.

SYMBOL LEGEND

888	WINDOW / OPENING IDENTIFICATION TAG	?	MATERIAL IDENTIFICATION TAG
000	FURRING IDENTIFICATION TAG	?	KEYNOTE REFERENCE
C.2	GRID BUBBLE	℄	CENTERLINE REFERENCE
101	DOOR IDENTIFICATON TAG	⊕	NORTH ARROW
Room name 888	ROOM NAME / ROOM NUMBER TAG	1 Ref 1 Ref A101 1 Ref Ref 1	ELEVATION DATUM AND ELEVATION, A.F.F., UNLESS NOTED OTHERWISE
1 A1.01 TYP.	BUILDING / WALL SECTION DIRECTION & CALL-OUT	1 A1.01 TYP.	DETAIL / SECTION CALL-OUT

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), ANSI A117.1, AND ALL LOCAL GOVERNING FIRE, LIFE SAFETY, AND BUILDING CODES, REQUIREMENTS AND REGULATIONS, LATEST EDITIONS.

2. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE OR MASONRY FACE, OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE. STUD WALL DIMENSIONS ARE TO CENTERLINE OF WALLS PER ORIGINAL DOCUMENTS.

3. ASBESTOS OR ASBESTOS CONTAINING PRODUCTS ARE NOT ALLOWED IN ANY ASPECT OF THIS NEW/RENOVATION CONSTRUCTION (PROJECT).

4. CONTRACTOR SHALL COORDINATE ALL DISCIPLINES AND ALL ASPECTS OF WORK. CONFLICTS AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

5. ALL FINISH ELEVATIONS ARE TO TOP OF WALKS, GRADE, PAVING, WALLS, ROOFS, ETC. UNLESS OTHERWISE NOTED.

6. ALL SOIL BERMS SHALL BE CONSTRUCTED TO DRAIN AWAY FROM VERTICAL SURFACES.

7. ALL RENOVATION GROUND PREPARATION SHALL BE IN CONFORMANCE WITH THE STRUCTURAL ENGINEER RECOMMENDATIONS.

8. ALL SURFACES WHICH RECEIVE A SPECIAL FINISH, FLOOR COVERING, COATINGS, HARDENERS, WATERPROOFING, ETC. SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFIC FINISH MANUFACTURERS SPECIFICATIONS, RECOMMENDATIONS AND INSTRUCTIONS. PRIOR TO APPLICATION OF A SPECIAL FINISH, A WRITTEN ACCEPTANCE OF THE SURFACE SHALL BE SUBMITTED TO THE ARCHITECT BY THE GENERAL CONTRACTOR.

9. ALL CONCRETE WALKS, RAMPS, STEPS, CURBS AND EQUIPMENT PADS SHALL HAVE A MEDIUM BROOM FINISH, PERPENDICULAR TO THE PATH OF TRAVEL, UNLESS NOTED OTHERWISE.

10. ALL EXTERIOR CONCRETE SERVICE YARDS AND THEIR DRIVEWAYS SHALL HAVE A HEAVY BROOM FINISH, UNLESS NOTED OTHERWISE.

11. CONTRACTOR SHALL PROVIDE A MINIMUM 4" RAISED CONCRETE HOUSEKEEPING PAD, UNLESS NOTED OTHERWISE AT ALL MECHANICAL, ELECTRICAL EQUIPMENT (BOILERS, CHILLERS, PUMPS, PANELS, SWITCHBOARDS, ETC.). COORDINATE EXACT SIZE REQUIREMENTS WITH EQUIPMENT TO BE INSTALLED. PROVIDE ASPHALTIC BITUMINOUS SEPARATIONS BETWEEN ALL ADJACENT SURFACES.

12. SLOPE ALL CONCRETE SURFACES ADJACENT TO THE BUILDING AWAY FROM THE BUILDING AT LESS THAN 2% SLOPE IN EACH DIRECTION, UNLESS NOTED OTHERWISE, COORDINATE WITH ALL GRADING PLANS WHEN AVAILABLE.

13. SAW CUTS IN LIEU OF CONSTRUCTION JOINTS ARE NOT ALLOWED IN CONCRETE SLABS AND SIDEWALKS. ANY DEVIATION IS TO BE REQUESTED BY G.C. AND APPROVED BY ARCHITECT.

14. ALL SURFACES UPON WHICH PEDESTRIANS AND OCCUPANTS CAN WALK SHALL BE FINISHED SUCH THAT THE MINIMUM STATIC COEFFICIENT OF SLIDING FRICTION BETWEEN THE SURFACE AND NORMAL HARD-SOLED SHOES = 0.60 AND 0.80 FOR RAMPS.

15. ALL CONCRETE AND MASONRY CONNECTIONS AND JOINTS SHALL BE COMPLETELY SEALED AND WATERPROOFED WITH BACKER ROD AND SEALANT REFER TO EACH APPLICABLE SPECIFICATION SECTION AND/OR DRAWING DETAILS.

16. ALL CONCRETE FLOORS NOT SCHEDULED TO RECEIVE FLOOR COVERINGS SHALL BE COMPLETELY SEALED AND ALL JOINTS CAULKED TO MATCH ADJACENT COLORS APPROVED BY ARCHITECT.

17. CONTRACTOR SHALL COORDINATE ALL CONCRETE SLABS TO SLOPE AWAY FROM BUILDING, TO SLOPE TOWARD DRAINS AT LESS THAN 2% SLOPE EACH WAY, TO RECESS FOR TILE APPLICATIONS, ETC.

18. ALL CONCRETE, MASONRY, STEEL SURFACES ADJACENT TO SOIL, PLANTERS, GRADED AREAS SHALL BE PROVIDED WITH A MONOLITHIC WATERPROOF SYSTEM EXTENDING FROM BOTTOM OF FOOTING TO 4" ABOVE SOIL.

19. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH AND FINISHED WITH NO PITS FOR ARCHITECTURAL APPEARANCE TO A LEVEL ABOVE PART 1 "QUALITY ASSURANCE" ARTICLE OF THE AWS, ACCEPTABLE TO THE ARCHITECT, AND IN COMPLIANCE W/ THE STRUCTURAL WELDING CODE.

20. PROVIDE METAL ALUMINUM STRAPPING WITH NEAT FINISH AND APEARANCE WHEN STRAPPING IS BEING MOUNTED OVER FINISHED SURFACES AND WILL BE EXPOSED TO VIEW.

21. ALL EXPOSED METAL SURFACES ARE TO BE PAINTED TO MATCH ADJACENT SURFACES, U.N.O.

22. PROVIDE SOLID BLOCKING AND ANCHORAGE FOR ALL CEILING AND WALL MOUNTED EQUIPMENT, ACCESSORIES, ELEMENTS, ETC.

23. ALL SHEET METAL FLASHINGS ARE TO BE IN ACCORDANCE WITH ARCHITECTURAL SHEET METAL MANUAL AS PRODUCED BY SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) AND COORDINATED WITH THE CONSTRUCTION DOCUMENTS TO MEET THE MOST RESTRICTIVE AND COMPREHENSIVE REQUIREMENTS

24. PROVIDE SEALANT, CAULK AND SEPARATION AND/OR APPROPRIATE COATING BETWEEN ALL SIMILAR AND DISSIMILAR METALS AND MATERIALS.

25. A 48-HOUR WATER TEST OF ALL COMPLETED ROOF SYSTEMS SHALL BE CONDUCTED BY THE CONTRACTOR IN ACCORDANCE WITH THE STRICTEST AND MOST RECENT REQUIREMENTS OF THE MANUFACTURER. ANY DEFECTS SHALL BE CORRECTED AND THE TEST REPEATED UNTIL RESULTS ARE VERIFIED COMPLETE.

26. ALL NEW WALLS ARE TO RECEIVE SOUND INSULATION AND SHALL CONTINUE TO THE UNDERSIDE OF THE ROOF / FLOOR DECK IF THE EXISTING CONDITIONS PERMIT. COORDINATE WITH ALL ABOVE CEILING SYSTEMS TO THE MAXIMUM EXTENT POSSIBLE.

27. ALL CERAMIC TILE SHALL BE INSTALLED PER TCA HANDBOOK INSTALLATION TO FOLLOW RECOMMENDATIONS FOR EACH SPECIFIC APPLICATION. PROVIDE 1/4" WIDE EXPANSION JOINT AT THE PERIMETER OF ALL TILE FLOOR AREAS.

28. PATCH ALL SURFACES REQUIRED TO RECEIVE NEW FINISHES TO THE EXTENT OF NEEDED TO MATCH ADJACENT SURFACES OF THE SAME MATERIAL. ENSURE TO USE THE SAME MATERIAL COMPONENTS OF THE EXISTING ADJACENT SURFACES TO MITIGATE CHANGES IN TEXTURE OR APPEARANCE.

29. REMOVE SLABS, PAVING, CURBS AND AGGREGATES AS INDICATED PER THE DOCUMENTS. UNLESS EXISTING FULL-DEPTH JOINTS COINCIDE WITH LINE OF DEMOLITION, NEATLY SAW-CUT ALONG LINE OF EXISTING PAVEMENT TO REMAIN BEFORE REMOVING ADJACENT EXISTING PAVEMENT. SAW-CUT FACES VERTICALLY.

30. DISCONNECT, DEMOLISH AND REMOVE PIPED UTILITY SYSTEMS FOR EQUIPMENT AND COMPONENTS INDICATED TO BE REMOVED. CAP OR PLUG REMAINING PIPING WITH THE SAME OR COMPATIBLE PIPING MATERIAL ACCESSORIES.

31. DISCONNECT, CAP SERVICES AND REMOVE, CLEAN AND STORE SAFE GUARDED THE EQUIPMENT INDICATED TO BE REMOVED AND REINSTALLED; WHEN APPROPRIATE, REINSTALL, RECONNECT AND MAKE OPERATIONAL.

32. DISCONNECT AND CAP SERVICES FOR EQUIPMENT TO BE REMOVED DISPOSING THE REMOVED APPROPRIATELY.

33. BRING TO THE ATTENTION OF THE ARCHITECT IF PIPE, INSULATION OR EQUIPMENT TO REMAIN IS DAMAGED IN APPEARANCE OR IS UNSERVICEABLE. AFTER OBTAINING THE APPROVAL FROM THE ARCHITECT/OWNER, REMOVE DAMAGED OR UNSERVICEABLE PORTIONS AND REPLACE WITH NEW PRODUCTS OF EQUAL CAPACITY AND QUALITY.

34. DISPOSE APPROPRIATELY AND IN COMPLIANCE WITH ORDINANCES, REGULATIONS AND CODES, ALL NON-HAZARDOUS DEMOLITION AND CONSTRUCTION WASTE.

35. CREATE PHOTOGRAPHIC DOCUMENTATION OF EXISTING CONDITIONS OF ADJOINING CONSTRUCTION, INCLUDING FINISH SURFACES THAT MIGHT BE MISCONSTRUCTED AS DAMAGE CAUSED BY DEMOLITION OPERATIONS AND SUBMIT TO ARCHITECT/OWNER BEFORE WORK BEGINS.

36. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING DEMOLITION, INCLUSIVE OF HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICATION.

37. ARRANGE DEMOLITION SCHEDULE SUCH THAT IT WILL NOT INTERFERE WITH OWNER'S/USER'S ON SITE OPERATIONS OF OTHER PORTIONS OF THE BUILDING STILL BEING OCCUPIED.

38. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO OTHER PORTIONS OF THE BUILDING NOT INCLUDED IN THE SCOPE OF WORK.

39. MAINTAIN TEMPORARY EGRESS FROM EXISTING FACILITIES AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

40. PROVIDE TEMPORARY ENCLOSURES FOR PROTECTION OF CONSTRUCTION IN PROGRESS, COMPLETED, FROM EXPOSURE, FOUL WEATHER, OTHER CONSTRUCTION OPERATIONS AND OTHER SIMILAR ACTIVITIES. WHERE HEATING OR COOLING IS NEEDED AND WORK IS INCOMPLETE, PROVIDE PROVISIONAL SYSTEMS/CONSTRUCTION TO SATISFY THE USE OF THE BUILDING IN SERVICE ADEQUATELY.

41. INSTALL AND MAINTAIN TEMPORARY FIRE- PROTECTION/CONSTRUCTION OF THE TYPES NEEDED TO PROTECT/MAINTAIN AGAINST REASONABLE PREDICTABLE AND CONTROLLABLE FIRE LOSSES, IN ACCORDANCE WITH A FIRE-PREVENTION PROGRAM IN COMPLIANCE WITH NFPA 241.

42. AVOID TRAPPING WATER IN FINISHED WORK. DOCUMENT VISIBLE SIGNS AT HOLD THAT MAY APPEAR DURING CONSTRUCTION, AND BRING THEM TO THE ATTENTION OF THE ARCHITECT/OWNER FOR RESOLUTION.

43. CONTRACTOR SHALL INCLUDE IN BASE BID ALL COST REQUIRED FOR MOCKUPS, SAMPLING, PREPARATION OF SUBMITTALS, SHOP DRAWINGS, TESTING, PERMITS, IINSPECTIONS, OWNER MANUALS AND AS-BUILTS.

44. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY AND ALL COSTS FOR ANY REVISIONS TO THE CONTRACT DOCUMENTS REQUIRED AS A RESULT OF VALUE ENGINEERING OF THE MATERIALS, SPECIFICATIONS AND DESIGN OF THIS PROJECT.

45. NOT ALL INFORMATION CONCERNING A DISCIPLINE WORK IS SOLELY CONTAINED WITHIN SUCH DISCIPLINE WORK DOCUMENTS. THE CONTRACTOR IS REQUIRED TO STUDY, COORDINATE AND USE ALL DISCIPLINES INFORMATION CONTAINED WITHIN THESE DOCUMENTS THAT ARE SUPPLEMENTARY INFORMATION TO SUCH DISCIPLINE WORK FOR THE CORRECT AND APPROPRIATE COMPLETION OF THIS RENOVATION PROJECT.

46. THE SCOPE OF WORK OF THIS RENOVATION CONTAINS AMONG OTHER ACTIVITIES THE WALL REPAIRS AND PREPARATION OF SUBSTRATES FOR NEW FINISHES OF DIFFERENT TYPES OF WALL CONSTRUCTION, INCLUDING BUT NOT LIMITED TO WOOD STUDS, METAL STUDS, PREFABRICATED CONCRETE WALL, CMU WALLS, ETC. IN ALL CASES THE CONTRACTOR NEEDS TO ACCOMODATE TO THE EXISTING CONDITIONS TO COMPLETE THE REPAIRS AND WORK OF THIS RENOVATION.

47. IN MANY INSTANCES THESE DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO SHOW EVERY EXISTING CONDITION. THE CONTRACTOR IS REQUIRED TO BID, PLAN AND EXECUTE THE WORK UNDERSTANDING THAT THERE MAY BE MANY CASES WHERE SEVERAL CONSTRUCTION TECHNIQUES AND SYSTEMS HAVE BEEN USED TO COMPLETE THE EXISTING CONDITIONS OF THE BUILDING 'AS-IS' AND THAT ALL THESE TECHNIQUES AND SYSTEMS CAN OCCUR AND APPEAR IN ONE OR SEVERAL AREAS OF WORK OF THIS RENOVATION, TOGETHER OR SEPPARATE. THE REPAIRS REQUIRED MAY NEED TO ADAPT TO ALL SAME TECHNIQUES AND/OR SYSTEMS TO MATCH EXISTING.

SHEET INDEX

DISCLAIMER

THESE DRAWING DOCUMENTS HAVE BEEN PREPARED BASED ON AS-BUILT DOCUMENTS PROVIDED BY UNLV WHICH MAY OR MAY NOT BE COMPLETELY ACCURATE. ALL DISCIPLINES HAVE DEDICATED TIME TO STUDY AND USE THESE AS-BUILT DOCUMENTS IN THE BEST MANNER POSSIBLE.

ALL DESIGN DISCIPLINES INVOLVED AND THE OWNER HAVE REPEATEDLY VISITED THE EXISTING FACILITIES IN AN EFFORT TO IMPROVE, CORROBORATE AND UPDATE THE AS-BUILT DOCUMENTATION RECEIVED WHICH ARE THE BASIS OF THE NEW DOCUMENTATION FOR THIS RENOVATION WORK. HOWEVER, THERE ARE MANY AREAS OF THE BUILDING WITHOUT AS-BUILTS AND/OR A WAY TO VISUALLY OBSERVE, CORROBORATE OR UPDATE WHAT IS BELIEVED WAS BUILT PRIOR TO THIS RENOVATION.

THE DOCUMENTS OF THIS RENOVATION ARE PREPARED USING ALL THE INFORMATION RECEIVED AND CORROBORATED TO THE EXTENTS POSSIBLE, USING PROFESSIONAL JUDGEMENT WITHIN THE STANDARD OF CARE FOR COMPLETION OF THE DOCUMENTS WHEN THE INFORMATION IS NOT AVAILABLE.

THE DESIGN TEAM AND OWNER HAVE SPENT TIME AND EFFORTS TO DISCUSS WITH AHJ OF EXISTING CIRCUMSTANCES AND CONSTRUCTION THAT MAY INTERFERE WITH THE TYPICAL COURSE OF THE CONSTRUCTION PROCESS AND ADAPTABILITY FOR ACCESSIBILITY COMPLIANCE FOR THIS TYPE OF RENOVATION WORK. THESE EXERCISES HAVE CONCLUDED WITH VARIANCES AND/OR DECISIONS THAT THE A-E TEAM HAS RECEIVED FROM THE AHJ THROUGH THE OWNER, NOW SERVING AS A BASE TO COMPLETE THE DESIGN AND CONSTRUCTION DOCUMENTS.

THE BIDDERS AND CONTRACTORS ARE REQUIRED TO USE THEIR PROFESSIONAL EXPERTISE AND JUDGEMENT WHEN BIDDING, PLANNING AND EXECUTING THE CONSTRUCTION WORK OF THIS RENOVATION WHICH IS COMPLEX IN NATURE AND REQUIRES DETAILED CLOSE SUPERVISION AND FULL COOPERATION OF ALL TRADES, DESIGN TEAM AND OWNER FOR A GOOD FINAL OUTCOME.

THE CONTRACTORS ARE REQUIRE TO BRING TO THE ATTENTION OF THE OWNER AND DESIGN TEAM ANY VARIATIONS FOUND IN THE FIELD DIFFERENT THAN INDICATED BY THE DOCUMENTS FOR PROMT RESOLUTION.

LIST OF ALTERNATES

ALTERNATE 1 GENERATOR: ALL ASSOCIATED WORK OUTSIDE AND INSIDE OF EXISTING BUILDING TO INSTALL A NATURAL GAS FIRED GENERATOR AS SPECIFIED ELSE WHERE IN THESE DOCUMENTS.

ALTERNATE 2: REPLACEMENT OF EXISTING BULB LAMPS WITH LED BULB LAMPS FOR ALL EXISTING AND NEW LIGHT FIXTURES OF THE INTERIOR OF THE PROJECT AS SPECIFIED ELSEWHERE IN THESE DOCUMENTS.

ALTERNATE 3 SPRINKLER MONITORING FIRE ALARM SYSTEM: NEW FACP (FIRE ALARM CONTROL PANEL) MONITORING THE EXISTING AND NEW SPRINKLER SYSTEM DEVICES CONTROLLING UP TO FOUR BUILDINGS IN THE FUTURE, EACH WITH A NEW FAA (FIRE ALARM ANNUNCIATOR), PROVIDING COMMNICATION WITH THE NEW NACP LOCATED AT THE QAL BUILDING, INCLUSIVE OF DESIGN TO MONITOR THE FLOW AND TAMPER SWITCH AS NEEDED. THE DESIGN SHALL ALSO CONTAIN THE DEMOLITION DRAWINGS AND WORK FOR THE DISMOUNT OF ALL FIRE ALARM EXISTING DEVICES NOT NEEDED. THE SCOPE SHALL COVER A DEFERRED SUBMITTAL CONTAINING THE REVIEW AND APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION, AND ALL OTHER SCOPE SPECIFIED INCLUDED ELSEWHERE IN THESE DOCUMENTS. THE EXISTING FIRE ALARM PROVIDING SERVICE FOR THE OTHER BUILDINGS MUST BE MAINTAINED IN SERVICE DURING AND AFTER THE CONSTRUCTION OF THE SPRINKLER FIRE ALARM SYSTEM AND SHALL BE EQUALLY TESTED AND RECEIVED BY AUTHORITY HAVING JURISDICTION FOR THE REMAINING PARTS IN OPERATION.

LIST OF DEFERRED SUBMITTALS (TO AHJ) 1

1. SPRINKLER MONITORING FIRE ALARM SYSTEM AS DESCRIBED ELSEWHERE IN THESE DOCUMENTS.
2. REMAINING IN OPERATION EXISTING FIRE ALARM AS DESCRIBED ELSEWHERE IN THESE DOCUMENTS.
3. MODIFICATIONS TO THE EXISTING FIRE SPRINKLER SYSTEM. 1

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REVISIONS

NO.	DATE	DESCRIPTION
1		AHJ COMMENTS

CONSULTANT

STAMP

WADE J. SIMPSON
No. 2988
11.02.17

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE **INDEX, GENERAL NOTES, ALTERNATES, SUBMITTALS, SYMBOLS & VACINITY MAP**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	

G0.01

CODE ANALYSIS

OVERALL PROJECT DESCRIPTION

Interior remodel and updates of the existing UNLV QAL One Story Building. The building was built with documents dated 1965 and has been remodeled/ updated during 1980, 1988 and 2007.

APPLICABLE CODES

2012 International Building Code, Including South Nevada Amendments.
2012 International Fire Code, Including Clark County IFC Amendments.
2012 Uniform Mechanical Code
2012 Uniform Plumbing Code
2011 National Electrical Code
2012 International Energy Conservation Code, Including 2012 IECC Southern NV Amendments
2009 ICC/ ANSI A117.1 Accessible & Usable Buildings & Facilities
2010 Standards for Accessible Design
NAC 477 Nevada State Fire Marshal Division requirements

ONE STORY EXISTING BUILDING

1. ONE BUILDING EXISTING BUILDING INCLUDES THE FOLLOWING AREAS:
   a. UNLV PSYCHOLOGY OFFICES & RESEARCH LABS (Remodel)
   b. MAINTENANCE AND OPERATIONS (Partial Remodel)

2. OCCUPANCY CLASSIFICATION - SEC 304

	AREA	Occupancy	Square Footage
1.	UNLV PSYCHOLOGY OFFICES (Remodel)	B	8,919 S.F.
9.	UNLV PUBLIC AREAS (Remodel)	B	3,078 S.F.
10.	Maintenance and Operations (No Change)	B	2,494 S.F.
		Total:	**14,491 S.F.**

3. TYPES OF CONSTRUCTION - SEC 503, 602, TABLE 503, TABLE 601 & TABLE 602
   a. Type II-A (No Change)
   b. Fire-rated construction and protection shall be as provided in applicable sections of Chapter 7.

4. AREA LIMITATIONS - Secs. 503, 506, 507, TABLE 503
   a. Existing One Story Building:
      1. No Change

5. HEIGHT AND NUMBER OF STORIES - Secs. 503, 504, and Table 503
   a. Existing One Story Building:
      1. No Change

6. OCCUPANCY SEPARATIONS - Sec. 302, 508, 509, Table 508.4, and Table 509
   a. All spaces are B occupancies; accessory to B occupancies, per 508.2.4 = No separation required.
   b. Incidental use area separations per Table 509:
      1. New incidental use area separations in accordance with Section 509 and Table 509 are provided for 1 Hour fire-rated construction per Sec. 509.4.1 and/or construction capable of resisting the passage of smoke per Sec. 509.4.2. - Section 909.5. for leakage area requirements.
      2. Existing to Remain Furnace Rooms, Boiler Rooms, refrigerant machinery rooms are separated by one (1) hour fire-rated protection or more.

7. FIRE RESISTANCE REQUIREMENTS - Table 601 and 602; Sec. 603, Chapter 7
   a.

Building Element	Fire Rating
1. Primary Structural Frame	1-Hour (No Change)
2. Exterior Bearing Walls(1)	1-Hour (No Change)
3. Interior Bearing Walls	1-Hour (No Change)
4. Exterior Non-Bearing Walls(1)	0-Hour & 1-Hour (No Change)
5. Interior Non-Bearing Partitions	0-Hour
6. Roof Construction	0-Hour

   (1) Fire separation distances between buildings varies from 44 to 48 feet (22 to 24 feet to imaginary lot line at west and east sides of existing buildings). 1-Hour Fire-rated construction provided or more (No Change).
   All other existing exterior walls have more than 30 feet to the property line = 0-Hour fire-rated required. 1-Hour Fire- rated construction provided or more (No Change).
   b. Allowable combustible materials including Wood Flooring, Fire-Retardent Treated Wood, Foam Plastic Insulation, Roof Coverings, Interior Finish Materials, and Flooring are provided per Sec. 603.1 and other sections referenced in Sec. 603.1
   c. Requirements for the incidental use separations required elsewhere in this analysis, shall be constructed per Sections 707, 710, 711 and 716.
   d. Maximum Area of Exterior Wall Openings - Sec. 705.8 and Table 705.8
      1. At areas with fire separation distance between buildings equal or greater than 30 feet, there is not a fire separation required. (Existing No Change).
      2. At areas with fire separation distance between buildings equal to 20 feet but less than 25 feet, the exterior wall openings unprotected, sprinklered or Protected with No Limit allowable areas (Existing No Change).
   e. Per SNBO Code Amendments, all fire riser rooms are to be 1-HR rated fire partitions.

8. ROOF COVERING CLASSIFICATION - Sec. 1505, Table 1505.1
   a. For Type II-A construction provide min. Class B assembly. (Existing No Change)

9. FIRE SPRINKLER SYSTEM - Sec. 903
   a. Existing Sprinkler System (No Main Change; Minor Adjustments may be required).

10. PORTABLE FIRE EXTINGUISHERS - Sec. 906
   a. Existing portable Fire Extinguishers are provided. Adjustments are made in compliance with Section 906.

11. FIRE ALARM - Sec. 907
   a. Existing Fire Alarm and Detection System (Adjustments may be required).

12. MEANS OF EGRESS - OCCUPANT LOAD - Chapter 10, Sections 1004 & 1005, Table 1004.1.2
   a. Refer to Updated Life Safety Plan

13. CORRIDORS
   a. FIRE RESISTANCE RATING - Secs. 708, 1018.1 & Table 1018.1
      1. For B occupancies with an occupant load served by the corridor greater than 30 the required fire-resistance rating with sprinkler system is 0-Hour. (Existing No Change)
   b. MINIMUM CORRIDOR WIDTH - Secs. 1005.1 & 1018.2, Table 1018.2
      1. For B occupancies the minimum corridor width is 44 inches. Requirements of the Section 1005 are applicable as required.
      2. Existing corridor widths are in excess of 44 inches. (No Change)
   c. DEAD END CORRIDORS - Sec. 1018.4
      1. Where more than one exit or exit access doorway is required, the exit access shall be arranged such that there are no dead ends in corridors more than 20 feet in length. Exception 2 of the 2012 IBC, Section 1018.4 allows occupancy in Group B (among others) to increase to 50 feet where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1

14. EXITS, EXIT ACCESS DOORWAYS, EXIT TRAVEL DISTANCE, NUMBER OF EXITS AND EXIT WIDTH REQUIREMENTS - Secs. 1015.1, 1016, 1020, 1021 & Table 1015.1
   a. For B Occupancy (among others) the spaces can have one exit only provided the maximum occupant load is 49 or less.
   b. For B occupancy (among others) the exit travel distance with a sprinkler system installed in the building shall not exceed 300 feet.
   b. Where two exits or exit access doorways are required from any portion of the exit access, the exit doors or exit access doorways shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between exit doors or exit acceess doorways. Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2 the separation distance shall not be less than one-third of the same length described above.
   c. Where access to three or more exits is required, at least two exit doors or exit access doorways shall be arranged as described under the two exit requirements.
   d. The existing building has Seven (7) existing exits to remain. (No Change)
   e. The exit width and exit access doorways requirements are as indicated by the Updated Life Safety Plan.
   f. The provided exit width provided for each existing exit is as indicated by the Updated Life Safety Plan. (No Change)

PLUMBING FIXTURE CALCULATIONS

Table 2902.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES Total Building Occupancy = 117			**NUMBER OF EXISTING PLUMBING FIXTURES**		**NUMBER OF NEW PLUMBING FIXTURES REQUIRED**	
			Total Building Occupancy = 117			
B OCCUPANCY = 117 / 2 = 59 OCC PER GENDER						
	MALE = 59 OCC.	**FEMALE = 59 OCC.**		**MALE**	**FEMALE**	**MALE**	**FEMALE**
WC	[1 PER 25 (FOR 50)] + 1 PER 50 = (50/25) + [(59-50) / 50] = 2.18 = 3*	[1 PER 25 (FOR 50)] + 1 PER 50 = (50/25) + [(60-50) / 50] = 2.2 = 3	WC	2	2	0*	1
LAV	[1 PER 40 (FOR 80)] + 1 PER 80 = (59/40) + [0] = 1.48 = 2	[1 PER 40 (FOR 80)] + 1 PER 80 = (60/40) + [0] = 1.5 = 2	LAV	2	3	0	0
DF	(1 PER 100) = 117 / 100 = 1.17 = 2		DF	2 SEE NOTE 1.		0 SEE NOTE 1.	
SS	1		SS	2		0	
UR	URINALS: LESS 67% OF REQD. WC = 2.18 X 0.67 = 1.46 = 2 (per 2012 IBC SBVA)		UR	4 SEE NOTE 2.		0 SEE NOTE 2.	
RESTROOM DOOR ASSEMBLIES CLEARANCES			SEE NOTE 3.			SEE NOTE 3.	
NOTES 1. THE EXISTING DRINKING FOUNTAINS ARE SETUP/INSTALLED FOR STANDING, NOT MEETING ACCESSIBILITY REQUIREMENTS. 50% OF THEM NEED TO BE REPLACED WITH UNITS MOUNTED AT ACCESSIBLE HEIGHTS. 2. THE EXISTING FOUR (4) URINALS DO NOT HAVE ENOUGH CLEARANCE AMONG THEMSELVES NOR MEET ACCESSIBILITY REQUIREMENTS. ONLY TWO CAN BE ARRANGED TO SATISFY THESE REQUIREMENTS. 3. THE EXISTING ARRANGEMENT FOR THE DOORS PROVIDING ACCESS TO THE RESTROOMS DO NOT MEET THE ACCESSIBILITY REQUIREMENTS. THE SECOND SETS OF DOOR AT THE INSIDE OF THE RESTROOMS WILL BE REMOVED TO SATISFY ACCESSIBILITY REQUIREMENTS (SEE PLANS)			* = REFER TO URINALS ALLOWED TO REPLACE WATER CLOSETS AND NOTE 2.			

ADDITIONAL COMMENTS CONCERNING OCCUPANT LOAD

THERE IS NOT EXISTING DOCUMENTATION AVAILABLE INDICATING THE BUILDING CODE USED FOR THE CONSTRUCTION OF THE ORIGINAL BUILDINGS AND ITS CORRESPONDENT TOTAL OCCUPANT LOAD. EVIDENCE OF EXISTING OCCUPANT LOAD HAS BEEN TAKEN FROM THE TOTAL OCCUPANT LOAD CHARTS USED BY UNLV AND EPA FOR THE SEPARATION OF EPA AND UNLV AREAS OF THE MSL BUILDING (CALLED EXISTING OCCUPANT LOAD). THE NEW OCCUPANT LOAD OF THE BUILDING IS NOT INCREASED IN COMPARISON WITH THE EXISTING OCCUPANT LOAD (REFER TO CHART OF NEW OCCUPANT LOAD TOTALS).

OCCUPANCY SCHEDULE - EXISTING QAL

Number	Name	Area	Occupant Group	Occupancy Factor	Occupancy New	Department
2	LAB	306 SF	B	100	4	UNLV Psychology
3	LAB	304 SF	B	100	4	UNLV Psychology
4	LAB	305 SF	B	100	4	UNLV Psychology
7	OFFICE	238 SF	B	100	3	UNLV Psychology
8	OFFICE	248 SF	B	100	3	UNLV Psychology
9	OFFICE	249 SF	B	100	3	UNLV Psychology
10	OFFICE	248 SF	B	100	3	UNLV Psychology
11	OPEN OFFICE	263 SF	B	100	3	UNLV Psychology
12	OFFICE	292 SF	B	100	3	UNLV Psychology
14	OFFICE	203 SF	B	100	3	UNLV Psychology
15	CONFERENCE ROOM	219 SF	B	15	15	UNLV Psychology
17.1	HAZ. MATERIAL STORAGE	368 SF	B	300	2	UNLV Psychology
17.3	FREEZER	69 SF	B	300	1	UNLV Psychology
18	LAB	297 SF	B	100	3	UNLV Psychology
19	LAB	297 SF	B	100	3	UNLV Psychology
20	LAB	276 SF	B	100	3	UNLV Psychology
21	LAB	809 SF	B	100	9	UNLV Psychology
22	STORAGE	199 SF	B	300	1	UNLV Psychology
25	LAB	Redundant Room	B	100		UNLV Psychology
31	OFFICE	309 SF	B	100	4	UNLV Psychology
32	WALK-IN FRIDGE	177 SF	B	300	1	UNLV Psychology
33	OFFICE	324 SF	B	100	4	UNLV Psychology
34	OPEN OFFICE	309 SF	B	100	4	UNLV Psychology
35	OPEN OFFICE	307 SF	B	100	4	UNLV Psychology
39	OPEN OFFICE	283 SF	B	100	3	UNLV Psychology
40	OPEN OFFICE	276 SF	B	100	3	UNLV Psychology
41	OFFICE	174 SF	B	100	2	UNLV Psychology
42	OFFICE	180 SF	B	100	2	UNLV Psychology
45	LAB	365 SF	B	100	4	UNLV Psychology
45.1	SOIL LAB	140 SF	B	100	2	UNLV Psychology
45.2	REFRIGERATOR	80 SF	B	300	1	UNLV Psychology
46	LAB	171 SF	B	100	2	UNLV Psychology
47	LAB	274 SF	B	100	3	UNLV Psychology
1	LOBBY	229 SF	B	0		UNLV Common
5	CORRIDOR	309 SF	B	0		UNLV Common
6.1	CORRIDOR	574 SF	B	0		UNLV Common
6.2	CORRIDOR	166 SF	B	0		UNLV Common
13	CORRIDOR	136 SF	B	0		UNLV Common
16.1	CORRIDOR	927 SF	B	0		UNLV Common
17.4	CORRIDOR	121 SF	B	0		UNLV Common
36.1	CORRIDOR	462 SF	B	0		UNLV Common
36.2	CORRIDOR	161 SF	B	0		UNLV Common
16	WATER ROOM	232 SF	B	300	1	Building Commons
17.2	MECHANICAL	199 SF	B	300	1	Building Commons
27	WOMENS RESTROOM	140 SF	B	0		Building Commons
29	MENS RESTROOM	172 SF	B	0		Building Commons
37	ELECTRICAL ROOM	214 SF	B	300	1	Building Commons
38	MECHANICAL	534 SF	B	300	2	Building Commons
43	HAZ. MATERIAL STORAGE & MECHANICAL	462 SF	B	300	2	Building Commons
44	MECHANICAL	608 SF	B	300	3	Building Commons
Grand total: 50		14207 SF			119	

OCCUPANCY SCHEDULE - WITH NEW CONSTRUCTION QAL

Number	Name	Area	Occupant Group	Occupancy Factor	Occupancy New	Department
2	RESEARCH LAB	306 SF	B	100	4	UNLV Psychology
3	RESEARCH LAB	304 SF	B	100	4	UNLV Psychology
4	RESEARCH LAB	305 SF	B	100	4	UNLV Psychology
7	OFFICE	238 SF	B	100	3	UNLV Psychology
8	OFFICE	248 SF	B	100	3	UNLV Psychology
9	OFFICE	249 SF	B	100	3	UNLV Psychology
10	MICROSCOPE ROOM	238 SF	B	100	3	UNLV Psychology
11	OFFICE	263 SF	B	100	3	UNLV Psychology
12	GRAD STUDENTS	292 SF	B	100	3	UNLV Psychology
14	TECHS - POST-DOCS	203 SF	B	100	3	UNLV Psychology
15	CONFERENCE ROOM	219 SF	B	15	15	UNLV Psychology
16	LAB SUPPORT	232 SF	B	300	1	UNLV Psychology
18	RESEARCH LAB	310 SF	B	100	4	UNLV Psychology
19	RESEARCH LAB	309 SF	B	100	4	UNLV Psychology
20	RESEARCH LAB	276 SF	B	100	3	UNLV Psychology
21	BIO BANK	353 SF	B	100	4	UNLV Psychology
22	HISTOLOGY	199 SF	B	100	2	UNLV Psychology
23	LAB SUPPORT	140 SF	B	300	1	UNLV Psychology
25	RESEARCH LAB	456 SF	B	100	5	UNLV Psychology
29	IDF	81 SF	B	100	1	UNLV Psychology
30	RESEARCH LAB	134 SF	B	100	2	UNLV Psychology
31	OFFICE	283 SF	B	100	3	UNLV Psychology
32	WALK-IN FRIDGE	177 SF	B	300	1	UNLV Psychology
33	OFFICE	324 SF	B	100	4	UNLV Psychology
34	COMPUTER TESTING	309 SF	B	100	4	UNLV Psychology
35	RESEARCH LAB	307 SF	B	100	4	UNLV Psychology
39	RESEARCH LAB	309 SF	B	100	4	UNLV Psychology
41	RESEARCH LAB	174 SF	B	100	2	UNLV Psychology
42	OFFICE	180 SF	B	100	2	UNLV Psychology
45	FREEZER FARM	365 SF	B	300	2	UNLV Psychology
47	RESEARCH LAB	274 SF	B	100	3	UNLV Psychology
49	STORAGE	368 SF	B	300	2	UNLV Psychology
50	FREEZER	69 SF	B	300	1	UNLV Psychology
51	REFRIGERATOR	80 SF	B	300	1	UNLV Psychology
1	LOBBY	229 SF	B	0		UNLV Common
5	CORRIDOR	309 SF	B	0		UNLV Common
6	CORRIDOR	585 SF	B	0		UNLV Common
6	CORRIDOR	166 SF	B	0		UNLV Common
13	CORRIDOR	136 SF	B	0		UNLV Common
17	CORRIDOR	927 SF	B	0		UNLV Common
24	CORRIDOR	121 SF	B	0		UNLV Common
36	CORRIDOR	462 SF	B	0		UNLV Common
36	CORRIDOR	161 SF	B	0		UNLV Common
26	MENS RESTROOM	172 SF	B	0		Building Commons
27	WOMENS RESTROOM	140 SF	B	0		Building Commons
37	ELECTRICAL ROOM	214 SF	B	300	1	Building Commons
38	MECHANICAL	534 SF	B	300	2	Building Commons
43	STORAGE & MECHANICAL	462 SF	B	300	2	Building Commons
44	MECHANICAL	608 SF	B	300	3	Building Commons
48	MECHANICAL	199 SF	B	300	1	Building Commons
26	MENS RESTROOM	29 SF				
27	WOMENS RESTROOM	56 SF				
28	CUST.	49 SF				
40	RESEARCH LAB	140 SF				
46	CLEAN ROOM	169 SF				
48	Room	Not Placed				
Grand total: 56		14443 SF			117	

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REVISIONS

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OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

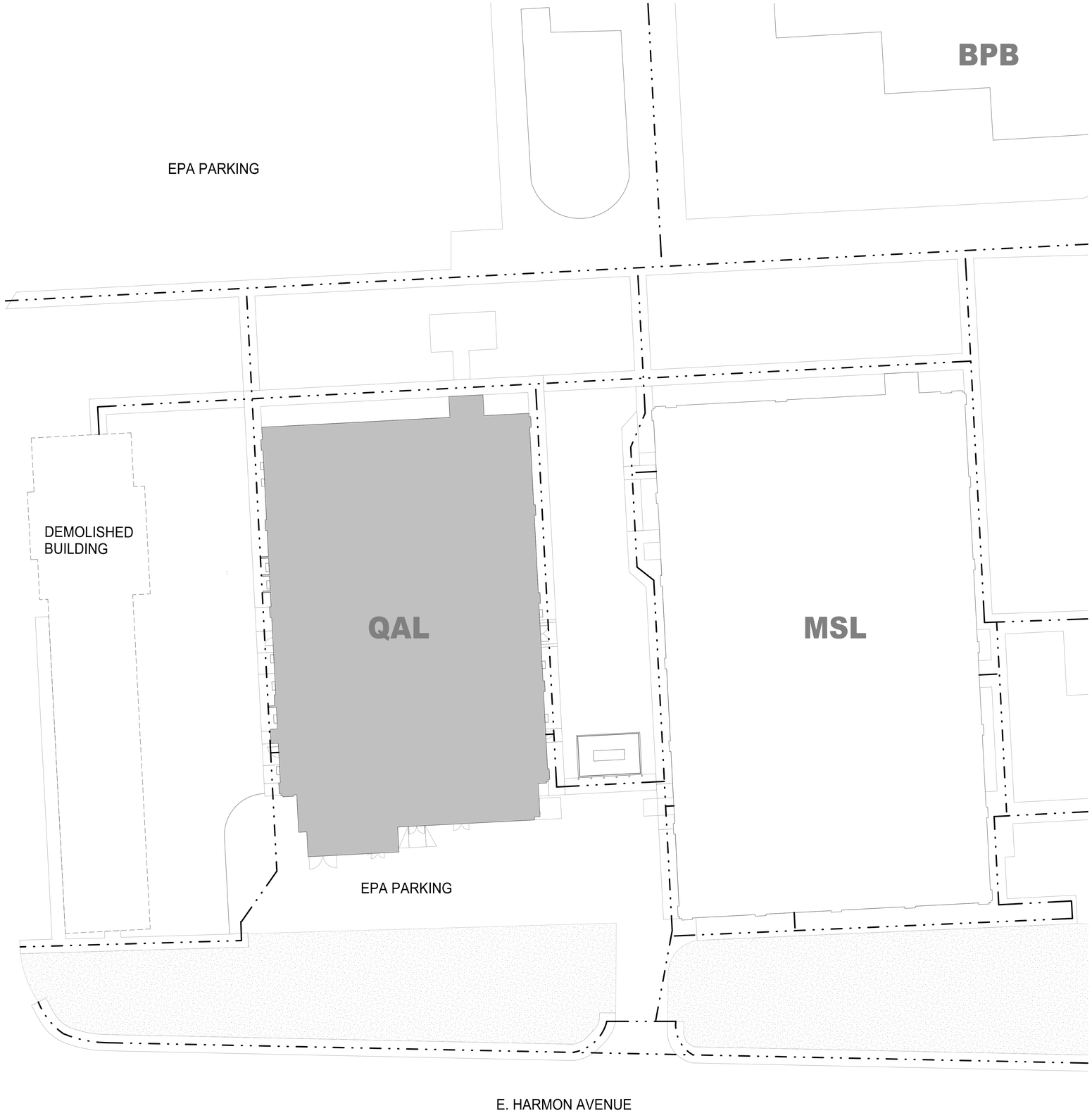
SHEET TITLE CODE ANALYSIS

DATE 11/02/17

PROJECT NO. SCS-1640

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO. G0.02



1 SITE PLAN
SCALE: 1/16" = 1'-0"

8' 16' 32' 64'

EXISTING ACCESSIBLE PATH TO BUILDING LEGEND

ACCESSIBLE PATH

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OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE **SITE ACCESSIBLE PATH TO BUILDING**

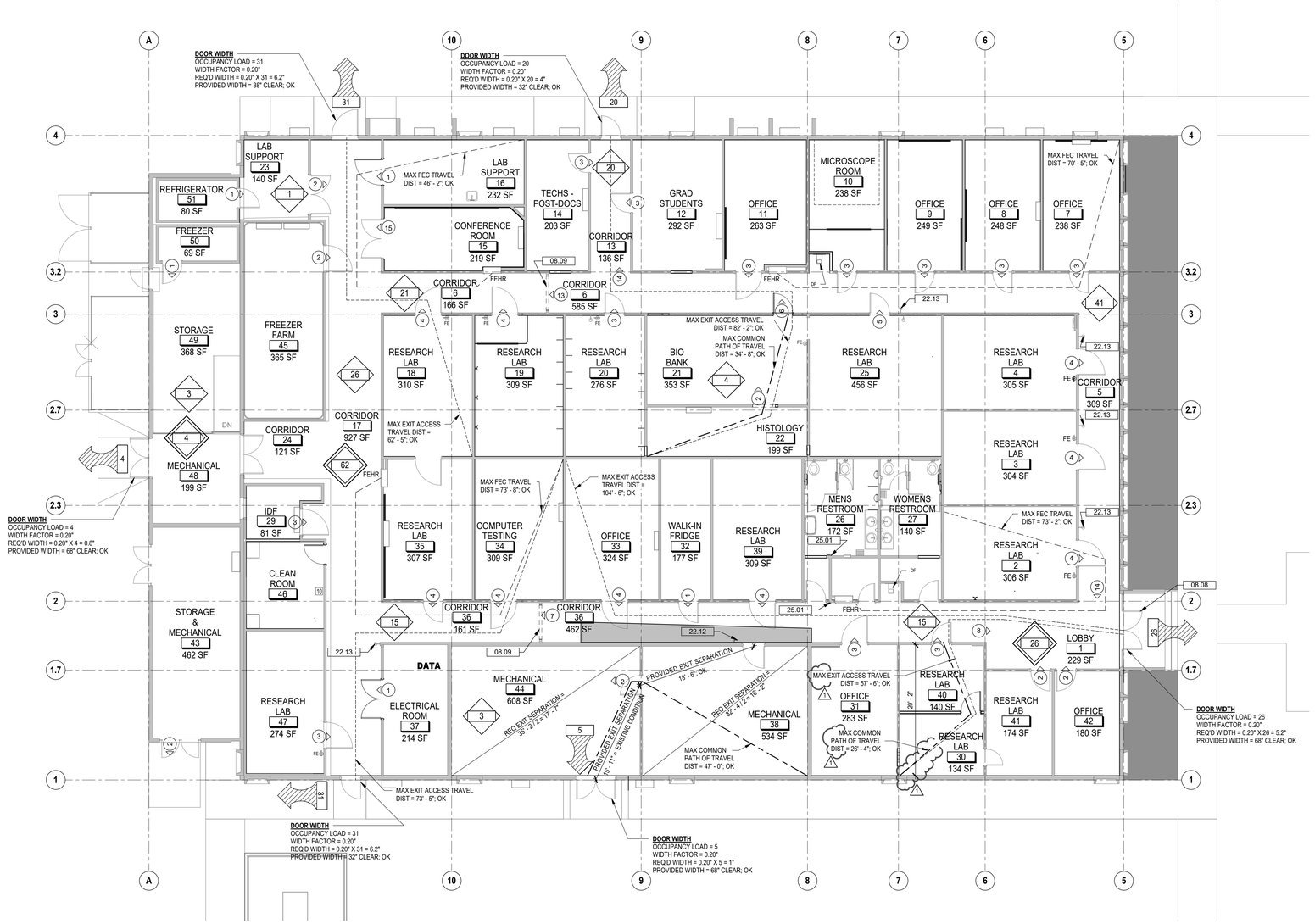
DATE 11/02/17

PROJECT NO. SCS-1640

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO.

G1.00



1 LEVEL 1 LIFE SAFETY PLAN

SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

GENERAL NOTES

1. NOT ALL EXISTING OCCUPIABLE SPACES ARE PART OF THE ACCESSIBLE ROUTE.

LEGEND

- OCCUPANT LOAD
- MULTIPLE EXIT OCCUPANT LOAD
- INTERMEDIATE ACCUMULATED OCCUPANT LOAD
- ACCUMULATED OCCUPANT LOAD AT EXIT PATH
- MAXIMUM COMMON PATH OF TRAVEL DISTANCE
- MAXIMUM FEC TRAVEL DISTANCE
- MAXIMUM EXIT ACCESS TRAVEL DISTANCE
- 1-HOUR FIRE-RATED CONSTRUCTION
- FE — FIRE EXTINGUISHER
- DF — DRINKING FOUNTAIN
- AREA OF REQUIRED REPAIR, SEE FLOOR PLAN

KEYNOTE LEGEND

NO	KEYNOTE
08.08	ADD DECALS ON DOOR INDICATING ACCESSIBLE ENTRY TO THE BUILDING.
08.09	DOOR LEAVES REMOVED FOR FREE ACCESS/COMMUNICATION
22.12	MODIFY ENCLOSURE OF SHUT OFF VALVE TO PROTRUDE LESS THAN 4" OVERALL.
22.13	ALL EXISTING SHOWER CHAIN OPERATORS TO BE RESTRAINED (WITH OPERATION) FROM CURRENT LOCATION TO 4" MAX. AWAY FROM WALL. (TYP)
25.01	INSTALL DOOR ACTUATOR TO OPERATE DOOR OPENING AND CLOSING.

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SHEET TITLE LIFE SAFETY PLAN

DATE	11/02/17
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SHEET NO.	G1.01

UNLV QAL RENOVATION SCOPE CONTROL TABLE

INTERIOR WORK

ROOM SPACE	FLOORS							WALLS						DOORS & WINDOWS									CASEWORK							MECHANICAL						PLUMBING						ELECTRICAL						
	CARPET	VCT	CHEM FLOORING	REMOVE EXISTING FLOORING	LEVEL FLOOR FOR NEW FINISHES	THRESHOLDS/ REDUCERS	BASE	WALL CUTTING	WALL PATCHING	WALL INFILL	WALL FURRING	SOUND FURRING	PAINT WALLS	NEW DOOR	DOOR REINSTALLATION	DOOR PATCHING	DOOR REPAIR	DOOR HARDWARE	NEW WINDOW	WINDOW REINSTALLATION	WINDOW PATCHING	WINDOW REPAIR	NEW CASEWORK	RELOCATE CASEWORK	REMOVE CASEWORK	NEW COUNTERTOP	NEW KNEE SPACE	RELOCATE COUNTERTOP	REMOVE COUNTERTOP	NEW MECH ELEMENT	RELOCATE MECH ELEMENT	REMOVE MECH ELEMENT	REMOVE MECH DUCTS	REMOVE MECH LINES	RELOCATE MECH LINES	NEW PLUMBING ELEMENT	RELOCATE PLUMBING ELEMENT	REMOVE PLUMBING ELEMENT	NEW PLUMBING LINES	RELOCATE PLUMBING LINES	REMOVE PLUMBING LINES	NEW ELECTRICAL ELEMENT	RELOCATE ELECTRICAL ELEMENT	REMOVE ELECTRICAL ELEMENT	NEW ELECTRICAL LINES	RELOCATE ELECTRICAL LINES	DATA LINES	REMOVE ELECTRICAL LINES
LOBBY 1													●																														●			●		●	
RESEARCH LAB 2									●				●			●	●	●					●	●	●	●	●		●												●	●		●	●		●	●
RESEARCH LAB 3									●				●			●	●	●					●	●	●	●	●		●				●									●		●	●			●
RESEARCH LAB 4									●				●			●	●	●					●	●	●		●						●									●		●	●			●
CORRIDOR 5									●				●																													●					●	
CORRIDOR 6.1								●	●	●			●																	●												●					●	
CORRIDOR 6.2								●	●				●																																			
OFFICE 7	●						●	●	●	●			●			●	●	●												●	●	●						●				●			●		●	
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OFFICE 11	●			●	●	●	●		●				●			●	●	●												●								●				●			●		●	
GRAD STUDENTS 12	●			●	●	●	●	●	●	●			●			●	●	●												●												●			●		●	
CORRIDOR 13									●				●																													●					●	
TECHS POST DOCS 14	●			●	●	●	●	●	●	●			●			●	●	●												●												●		●	●			●
CONFERENCE ROOM 15	●			P	●	●	●		●		●	●	●			●	●	●					●							●		●						●				●			●		●	
LAB SUPPORT 16						●	P		●				●	● LEAF		●	●	●												●												●			●		●	
CORRIDOR 16.1									●				●																	●												●					●	
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MECHANICAL 17.2																																										●			●			
FREEZER 17.3																																										●			●			
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RESEARCH LAB 20			●	●	●	●	●		●				●			●	●	●					●		●		●		●										●			●			●		●	
BIO BANK 21			●	P	●	●	●	●	●	●			●		●	●	●	●					●	●	●	●	●		●	●		●										●			●		●	
HISTOLOGY B WORK 22			●	P	●	●	●	●	●	●			●										●	●		●	●			●		●	●									●			●		●	
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WOMENS VEST 26						●	P	●	●				●			●	●	●																														
WOMENS RESTROOM 27						●			●				●																													●			●			
CUSTODIAL 28																●	●	●																														
MENS VEST 29						●	P	●	●				●			●	●	●																														
MENS RESTROOM 30				P	P	●	P	●	●	●	●		●																													●			●			
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WALK-IN FRIDGE 32																																										●			●			
OFFICE 33	●			●	●	●	●		●				●			●	●	●												●							●					●			●		●	
COMPUTER TESTING 34	●			●	●	●	●		●				●			●	●	●																			●					●			●		●	
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MECHANICAL ROOM 38																																										●			●			
RESEARCH LAB 39				●	●	●	P		●				●			●	●	●																								●		●	●			●
RESEARCH LAB 40						●	P	●	●	●	●		●			●	●	●													●	●										●		●			●	●
RESEARCH LAB 40.1						●	P	●	●	●	●		●			●	●	●																														
RESEARCH LAB 41	●			●	●	●	●	●	●	●			●			●	●	●																														
OFFICE 42	●			●	●	●	●		●				●			●	●	●																														
MECHANICAL YARD 43																																																
MECHANICAL ROOM 44																																			●			●			●			●				
FREEZER FARM 45		●		P	●	●	●		●				●			●	●	●												●		●																
LAB SUPPORT 45.1																																																
REFRIGERATOR 45.2																																																
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IDF ROOM 46.1		●DIS		P	●	●	●	●	●	●	●		●			●	●	●																														
RESEARCH LAB 47			●	P	●	●	●		●				●			●	●	●					●	●	●	●	●		●							●	●	●	●	●	●							
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EAST FAÇADE																	●	●																														
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WEST FAÇADE																	●	●																														
EXT. AREA NORTH OF BUILDING																																																
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EXT. AREA WEST OF BUILDING																																																

EXTERIOR WORK

ROOM SPACE	EXT. FAÇADE WORK	EXT. RAILING WORK	EXT. MECHANICAL WORK	EXT. PLUMBING WORK	EXT. ELECTRICAL WORK	EXT. CIVIL WORK	EXT. UNDERGROUND WORK	EXTERIOR CONCRETE AREA WORK	EXT. ASPHALT AREA WORK	EXT. LANDSCAPE WORK	EXT. PLANTING WORK	OTHER
LOBBY 1												
RESEARCH LAB 2												
RESEARCH LAB 3												
RESEARCH LAB 4												
CORRIDOR 5												
CORRIDOR 6.1												
CORRIDOR 6.2												
OFFICE 7												
OFFICE 8												
OFFICE 9												
MICROSCOPE ROOM 10												
OFFICE 11												
GRAD STUDENTS 12												
CORRIDOR 13												
TECHS POST DOCS 14												
CONFERENCE ROOM 15												
LAB SUPPORT 16												
CORRIDOR 16.1												
STORAGE 17.1												
MECHANICAL 17.2												
FREEZER 17.3												
CORRIDOR 17.4												
RESEARCH LAB 18												
RESEARCH LAB 19												
RESEARCH LAB 20												
BIO BANK 21												
HISTOLOGY B WORK 22												
RESEARCH LAB 25												
WOMENS VEST 26												
WOMENS RESTROOM 27												
CUSTODIAL 28												
MENS VEST 29												
MENS RESTROOM 30												
OFFICE 31												
WALK-IN FRIDGE 32												
OFFICE 33												
COMPUTER TESTING 34												
RESEARCH LAB 35												
CORRIDOR 36.1												
CORRIDOR 36.2												
ELECTRICAL ROOM 37												
MECHANICAL ROOM 38												
RESEARCH LAB 39												
RESEARCH LAB 40												
RESEARCH LAB 40.1												
RESEARCH LAB 41												
OFFICE 42												
MECHANICAL YARD 43												
MECHANICAL ROOM 44												
FREEZER FARM 45												
LAB SUPPORT 45.1												
REFRIGERATOR 45.2												
CLEANING 46												
IDF ROOM 46.1												
RESEARCH LAB 47												
NORTH FAÇADE												
EAST FAÇADE												
SOUTH FAÇADE												
WEST FAÇADE												
EXT. AREA NORTH OF BUILDING												
EXT. AREA EAST OF BUILDING												
EXT. AREA SOUTH OF BUILDING												
EXT. AREA WEST OF BUILDING												

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REVISIONS
NO. DATE DESCRIPTION

CONSULTANT

STAMP
WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)
PROJECT NAME: UNLV QAL BUILDING - INTERIOR RENOVATION
SHEET TITLE: UNLV QAL RENOVATION SCOPE CONTROL TABLE

DATE 11/02/17
PROJECT NO. SCS-1640
SUBMITTAL 100% CONSTRUCTION DOCUMENTS
SHEET NO. G1.02

KEYNOTE LEGEND

NO	KEYNOTE
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 **SITE PLAN**
SCALE: 1/16" = 1'-0"

8' 16' 32' 64'

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CONSULTANT

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WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE **SITE PLAN**

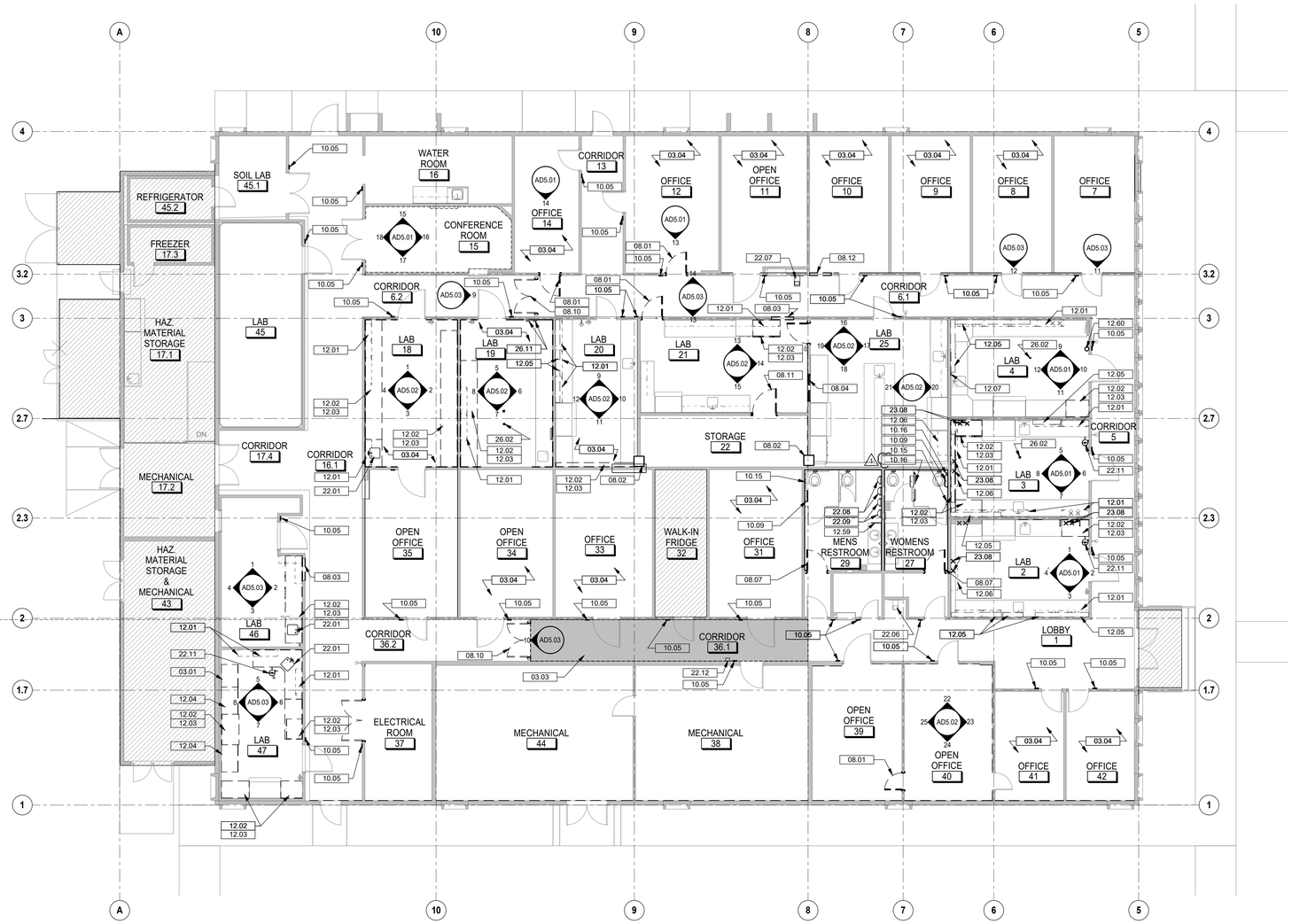
DATE 11/02/17

PROJECT NO. SCS-1640

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO.

AS1.01



1 DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

SHEET NOTES

1. ALL ELEMENTS, CABINETS, FURNITURE AND SIMILARS BEING RETURNED TO OWNER MUST BE INVENTORIED/LISTED FOR THEIR DELIVERY.
2. ALL SPACES MAY BE SHOWING ELEMENTS/PIPING/DUCTS, CABLES, CONDUITS THAT NEED TO BE REMOVED TO ALLOW NEW CONSTRUCTION/RENOVATION. COORDINATE THESE EFFORTS FOR EACH SPACE AS NECESSARY.
3. ALL THE SPACES OF THIS RENOVATION PROJECT REQUIRE ADJUSTING, PATCHING, REPAIRING THE EXISTING SURFACES OF THE FLOOR, WALLS, CEILINGS, DOORS, TO RECEIVE NEW FINISHES.
4. ALL DOOR HARDWARE REQUIRES TO BE OPERATIONAL. ADJUST/REPAIR, CHANGE AS REQUIRED- SEE CHART FOR MAJOR REPAIRS.
5. ADJUST TO THE REQUIRED APPROPRIATE ELEVATIONS, ALL FLOOR DRAINS, FLOOR SINKS, CLEANOUTS AND SIMILARS - REFER TO PLUMBING DRAWING FOR ADDITIONAL INFORMATION.
6. ALL FURNITURE WILL BE PROVIDED BY UNLV FROM EXISTING COMING FROM OTHER BUILDINGS OR NEW - SHOWN IN DOCUMENT FOR REFERENCE ONLY.
7. NEW DOOR ASSEMBLIES MARKED ON PLAN PER DOOR SCHEDULE.
8. CONTRACTOR SHALL INCLUDE HARDWARE REPAIR/REPLACEMENT REQUIRED FOR THE CORRECT OPERATION OF EXISTING DOORS (TYP.) NEW AS PER SPECS.
9. FOR HOLLOW METAL DOORS AND FRAMES PAINT COLOR, REFER TO FINISH MATERIALS NOTES ON SHEET A2.01.
10. CONTRACTOR IS REQUIRED TO CLEAN ALL FIXED CABINETRY AND INCORPORATED EQUIPMENT (TYP).
11. ALL EXISTING CABINETRY WITH SCRATCHES AND DIS-SIMILAR COLOR WITHIN THE SAME SPACE REQUIRES ADDITIONAL DIS-ASSEMBLEMENT TO PROCURE APPROPRIATE PAINTING IN-SITU. REFER TO NEW INTERIOR ELEVATIONS FOR NEW/TRANSFERRED CABINETRY INFORMATION.

LEGEND

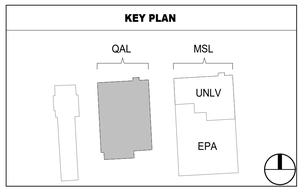
N.I.C OF RENOVATION EXCEPT AS INDICATED

EXISTING ROUGH GYP BD. CEILING - PAINTED.

KEYNOTE LEGEND

NO	KEYNOTE
03.01	BUILD CONCRETE PATH IN ACCORDANCE WITH NATURAL GAS REQUIREMENTS.
03.03	REPAIR CONCRETE AND SUBSTRATE, REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
03.04	REMOVE EXISTING FLOORING REVIEW THE CONCRETE SLAB AND SAWCUT IT AS REQUIRED TO REPAIR THE SUBSTRATE WITH SELECTED MATERIAL. POUR AND PATCH CONCRETE AS REQUIRED.
08.01	REMOVE DOOR ASSEMBLY AND DISPOSE APPROPRIATELY. INFILL WALL WITH MATERIALS, FINISHES EQUAL TO OTHER ADJACENT WALLS, PREPARE SURFACES TO RECEIVE NEW FINISHES.
08.02	REMOVE PASS-THRU BOX AND DISPOSE. INFILL WALL WITH MATERIALS, FINISHES EQUAL TO OTHER ADJACENT WALLS. PREPARE SURFACES TO RECEIVE NEW FINISHES.
08.03	CREATE OPENING IN WALLS TO SUITE DOOR ASSEMBLY SHOWN ON FLOOR PLAN AND DESCRIBED PER DOOR SCHEDULE. PATCH AND REFINISH ADJACENT SURFACES AS REQUIRED.
08.04	REMOVE WINDOW ASSEMBLY AND DISPOSE APPROPRIATELY. INFILL WALL WITH MATERIAL, FINISHES EQUAL TO OTHER ADJACENT WALLS. PREPARE SURFACES TO RECEIVE NEW FINISHES.
08.07	REMOVE DOOR ASSEMBLY AND DISPOSE APPROPRIATELY.
08.10	REMOVE DOOR LEAVES ONLY, INCLUSIVE OF HINGES AND DISPOSE APPROPRIATELY; REPAIR FRAME TO RECEIVE NEW FINISHES.
08.11	REMOVE DOOR ASSEMBLY AND DISPOSE APPROPRIATELY. INFILL PARTIAL WALL TO SUITE NEW OPENING PER FLOOR PLAN, INFILL WITH MATERIALS, FINISHES EQUAL TO OTHER ADJACENT WALLS, PREPARE SURFACES TO RECEIVE NEW FINISHES.
08.12	CREATE A 3'-0" W X 7'-0" H CLEAR OPENING TO RECESS INTO SPACE A DRINKING FOUNTAIN - FINISH EDGES AND PREPARE OPENING TO BUTT ADJACENT WALLS.
10.05	EXISTING SIGN METAL PLAQUE TO BE REMOVED AND DISPOSE APPROPRIATELY.
10.09	DISMOUNT TOILET PAPER DISPENSER. REMOUNT AT INDICATED LOCATION ON RESTROOM ELEVATIONS. FILL AREAS OF ANCHOR WITH SILICON MATCHING COLOR OF TILE.
10.15	REMOVE RECESSED DISPENSER AND DISPOSE APPROPRIATELY. PATCH AND REPAIR AFFECTED AREA TO MATCH EXISTING CONDITION. COORDINATE RECESSED AREA REQUIRED FOR PAPER NAPKIN DISPOSAL. SEE NEW FLOOR PLANS AND ELEVATIONS.
10.16	REMOVE EXISTING GRAB BAR. PATCH AND REPAIR AFFECTED AREA TO MATCH EXISTING CONDITION.
12.01	EXISTING UPPER CABINET TO BE REMOVED AND SALVAGED. PROTECT DURING CONSTRUCTION AND UNTIL REINSTALLATION.
12.02	EXISTING COUNTERTOP AND BACKSPLASH TO BE REMOVED. DISPOSE OF MATERIAL APPROPRIATELY.
12.03	REFER TO INTERIOR DEMOLITION ELEVATIONS AND CABINETRY CHART FOR CABINETRY REQUIRED TO BE DISMOUNTED AND SALVAGED. PROTECT DURING CONSTRUCTION UNTIL REINSTALLATION.
12.04	REMOVE FURNITURE AND RETURN TO OWNER AT REQUIRED LOCATION.
12.05	REMOVE SHELVES AND DISPOSE APPROPRIATELY.
12.06	REMOVE FLAMMABLE CABINET AND SALVAGE. PROTECT DURING CONSTRUCTION. RE-INSTALL AT LOCATION DESCRIBED ON FLOOR PLAN/ELEVATIONS.
12.07	REMOVE PANEL AND DISPOSE APPROPRIATELY. PATCH WALL AS REQUIRED TO RECEIVE NEW FINISHES.
12.59	REMOVE URINAL SCREEN. PROTECT DURING CONSTRUCTION AND REINSTALL AT APPROPRIATE TIME.
12.60	REMOVE FIRE EXTINGUISHER AND SALVAGE. PROTECT DURING CONSTRUCTION AND REINSTALL AT NEW LOCATION WHEN APPROPRIATE.
22.01	EXISTING SINK TO BE REMOVED ASSOCIATED PLUMBING TO BE DISCONNECTED, CAPPED AND REMOVED.
22.06	EXISTING DRINKING FOUNTAIN TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION.
22.07	REMOVE EXISTING DRINKING FOUNTAIN AND DISPOSE APPROPRIATELY. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
22.08	DISMOUNT URINAL AND SALVAGE, STORE AND PROTECT DURING CONSTRUCTION. REINSTALL AT LOCATIONS SHOWN PER CONSTRUCTION DOCUMENTS. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.
22.09	DISMOUNT URINAL AND DISPOSE APPROPRIATELY. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.
22.11	REMOVE EYEWASH AND DISPOSE APPROPRIATELY.
22.12	MODIFY ENCLOSURE OF SHUT OFF VALVE TO PROTRUDE LESS THAN 4" OVERALL.
23.08	REMOVE EXISTING GAS AND AIR VALVE REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
26.02	REMOVE TELE POWER POLE AND DISPOSE APPROPRIATELY, DISCONNECT APPROPRIATELY FROM WIRING AND ASSOCIATED OTHER ELEMENTS. REFER TO ELECTRICAL DRAWINGS.
26.11	REMOVE ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEY PLAN



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NO.	DATE	DESCRIPTION
1		AHJ COMMENTS

CONSULTANT

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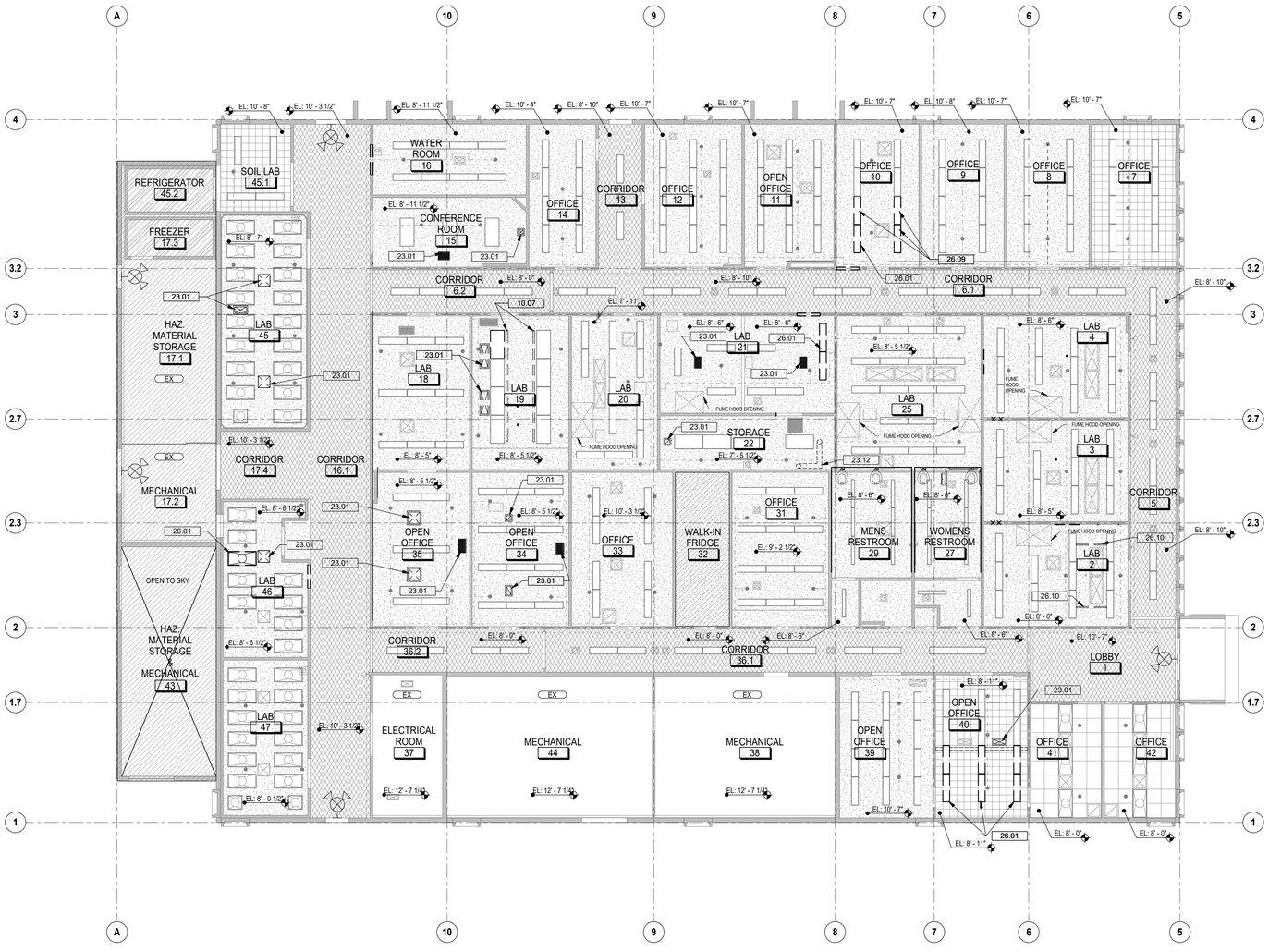
WADE A. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **DEMOLITION FLOOR PLAN**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**AD1.01**



1 REFLECTED DEMOLITION CEILING PLAN

SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

SHEET NOTES

1. PROTECT IN PLACE DURING CONSTRUCTION ALL LIGHT FIXTURES TO REMAIN.
2. PROTECT IN PLACE DURING CONSTRUCTION ALL DIFFUSERS / RETURNS TO REMAIN.
3. PROTECT IN PLACE DURING CONSTRUCTION, ALL SPRINKLER SYSTEMS.
4. PROTECT IN PLACE ALL RCP TO REMAIN.
5. PROTECT IN PLACE ALL EXISTING SIGNAGE.

LEGEND

- N.I.C OF RENOVATION EXCEPT AS INDICATED
- EXISTING ROUGH GYP BD. CEILING - PAINTED.

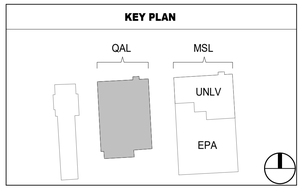
CEILING LEGEND

- EXISTING PGB - GYPSUM BOARD CEILING SYSTEM
- EXISTING 2x2 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM
- EXISTING 1x1 SUSPENDED TILE CEILING SYSTEM SYSTEM
- EXISTING FILTERED CEILING MOUNTED SUPPLY
- EX — EXISTING EXPOSED STRUCTURE
- EXISTING 1x4 SURFACE MOUNTED FLOURESCENT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- EXISTING 2x4 SURFACE MOUNTED FLOURESCENT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- EXISTING 2x4 RECESSED FLOURESCENT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
- EXISTING 2'x2' RECESSED FLUORESCENT - LIGHT FIXTURE SEE ELECTRICAL DRAWINGS
- EXISTING CEILING MOUNTED GRILLE
- EXISTING RETURN AIR GRILLE - SEE MECHANICAL DRAWINGS
- EXISTING SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS
- EXISTING EXHAUST GRILLE
- EXISTING FUMEHOOD
- EXISTING CEILING MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS
- EXISTING WALL MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS
- EXISTING SPRINKLER HEAD
- EXISTING SPRINKLER PIPING
- NEW RETURN AIR GRILLE - SEE MECHANICAL DRAWINGS
- NEW SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS

KEYNOTE LEGEND

NO	KEYNOTE
10.07	EXISTING CURTAIN TRACK. DISMOUNT AND DISPOSE APPROPRIATELY.
23.01	REMOVE HVAC DIFFUSER DISCONNECTING IT FROM EXISTING DUCTS. PATCH AND REPAIR DUCTS AS INDICATED BY MECHANICAL DOCUMENTS. REINSTALL / DISPOSE AS INDICATED PER MECHANICAL DOCUMENTS.
23.12	MECHANICAL ELEMENT TO BE DISMOUNTED, REFER TO MECHANICAL DOCUMENTS FOR ADDITIONAL INFORMATION.
26.01	REMOVE LIGHT FIXTURE AND SALVAGE, DISCONNECTING APPROPRIATELY FROM WIRING AND ASSOCIATED OTHER ELEMENTS. PROTECT DURING CONSTRUCTION AND REINSTALL AT APPROPRIATE TIME AT LOCATIONS SHOWN PER RCP.
26.09	REMOVE ELECTRICAL LIGHT FIXTURE AND DISPOSE APPROPRIATELY REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.
26.10	REMOVE EXISTING TRACK AND ATTACHED ELECTRICAL TRACK LIGHT FIXTURES. DISMOUNT AND DISPOSE APPROPRIATELY. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEY PLAN



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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

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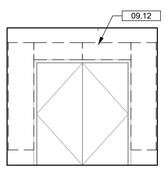
WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

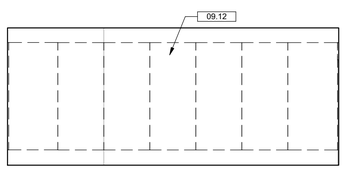
PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE REFLECTED DEMOLITION CEILING PLAN

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	AD3.01



18 CONFERENCE ROOM 15
SCALE: 1/4" = 1'-0"



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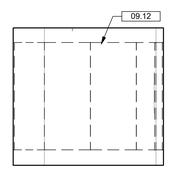

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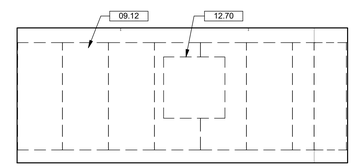

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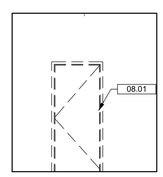

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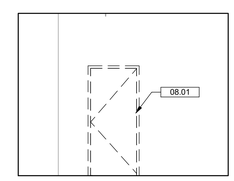

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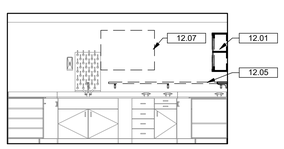

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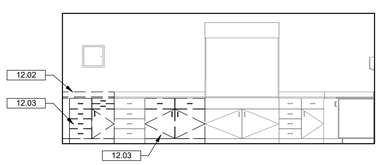

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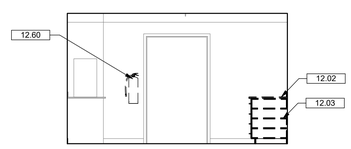

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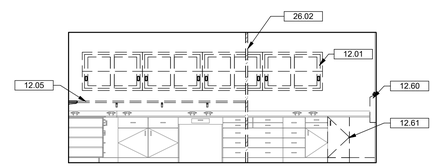

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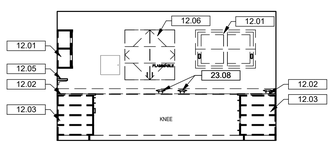

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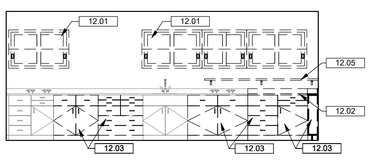

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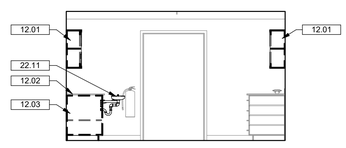

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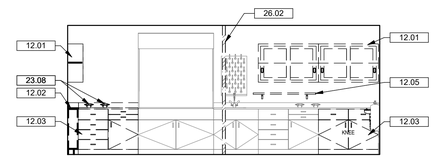

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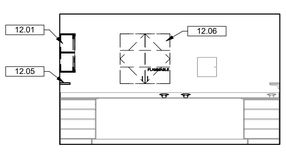

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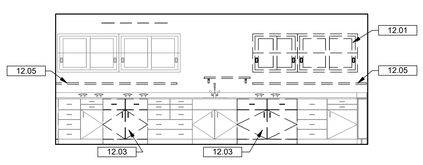

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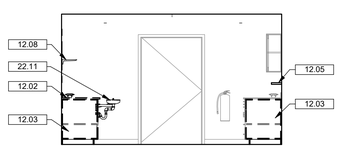

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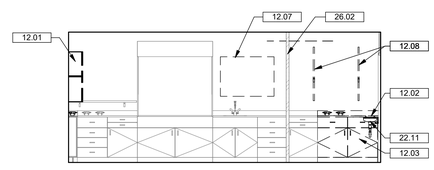

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4. ALL DOOR HARDWARE REQUIRES TO BE OPERATIONAL. ADJUST/REPAIR, CHANGE AS REQUIRED- SEE CHART FOR MAJOR REPAIRS.
5. ADJUST TO THE REQUIRED APPROPRIATE ELEVATIONS, ALL FLOOR DRAINS, FLOOR SINKS, CLEANOUTS AND SIMILARS - REFER TO PLUMBING DRAWING FOR ADDITIONAL INFORMATION.
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11. ALL EXISTING CABINETRY WITH SCRATCHES AND DIS-SIMILAR COLOR WITHIN THE SAME SPACE REQUIRES ADDITIONAL DIS-ASSEMBLEMENT TO PROCURE APPROPRIATE PAINTING IN-SITU. REFER TO NEW INTERIOR ELEVATIONS FOR NEW/TRANSFERRED CABINETRY INFORMATION.

KEYNOTE LEGEND

NO	KEYNOTE
08.01	REMOVE DOOR ASSEMBLY AND DISPOSE APPROPRIATELY. INFILL WALL WITH MATERIALS, FINISHES EQUAL TO OTHER ADJACENT WALLS, PREPARE SURFACES TO RECEIVE NEW FINISHES.
09.12	REMOVE EXISTING ACOUSTIC PANELS, PATCH AND REPAIR WALLS TO RECEIVE NEW FINISH.
12.01	EXISTING UPPER CABINET TO BE REMOVED AND SALVAGED. PROTECT DURING CONSTRUCTION AND UNTIL REINSTALLATION.
12.02	EXISTING COUNTERTOP AND BACKSPLASH TO BE REMOVED. DISPOSE OF MATERIAL APPROPRIATELY.
12.03	REFER TO INTERIOR DEMOLITION ELEVATIONS AND CABINETRY CHART FOR CABINETRY REQUIRED TO BE DISMOUNTED AND SALVAGED. PROTECT DURING CONSTRUCTION UNTIL REINSTALLATION.
12.05	REMOVE SHELVES AND DISPOSE APPROPRIATELY.
12.06	REMOVE FLAMMABLE CABINET AND SALVAGE. PROTECT DURING CONSTRUCTION. RE-INSTALL AT LOCATION DESCRIBED ON FLOOR PLAN/ELEVATIONS.
12.07	REMOVE PANEL AND DISPOSE APPROPRIATELY. PATCH WALL AS REQUIRED TO RECEIVE NEW FINISHES.
12.08	REMOVE OTHER ELEMENTS REQUIRED FOR INSTALLATION OF NEW FINISHES. REINSTALL WHEN APPROPRIATE, IF REQUESTED.
12.60	REMOVE FIRE EXTINGUISHER AND SALVAGE. PROTECT DURING CONSTRUCTION AND REINSTALL AT NEW LOCATION WHEN APPROPRIATE.
12.61	REMOVE DOOR PANEL/HINGES AND DISPOSE APPROPRIATELY.
12.70	REMOVE EXISTING WHITE BOARD CABINET WITH DOORS. PATCH AND REPAIR WALL AS NECESSARY TO RECEIVE NEW FINISH.
22.11	REMOVE EYEWASH AND DISPOSE APPROPRIATELY.
23.08	REMOVE EXISTING GAS AND AIR VALVE REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
26.02	REMOVE TELE POWER POLE AND DISPOSE APPROPRIATELY, DISCONNECT APPROPRIATELY FROM WIRING AND ASSOCIATED OTHER ELEMENTS. REFER TO ELECTRICAL DRAWINGS.

SC STUDIO
Simpson Coulter | STUDIO
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Las Vegas, NV 89119
702-435-1150
www.simpsoncoulter.com

REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

STAMP

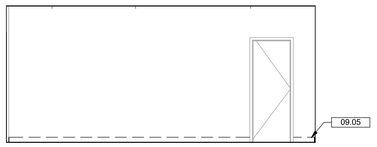
WADE J. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE DEMOLITION ELEVATIONS

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	AD5.01



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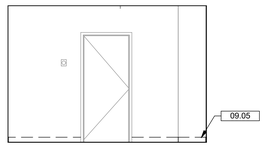

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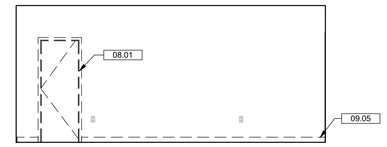

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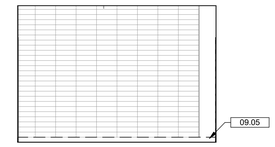

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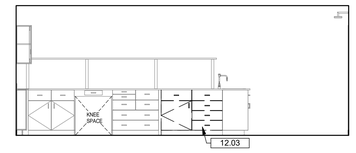

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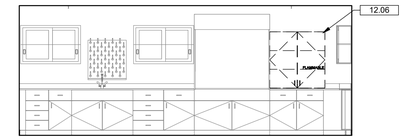

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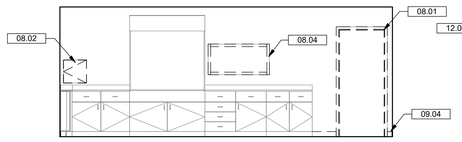

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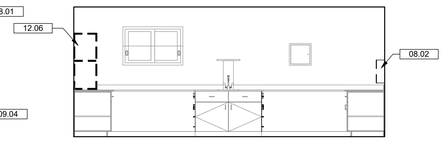

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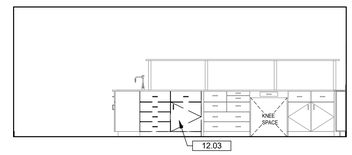

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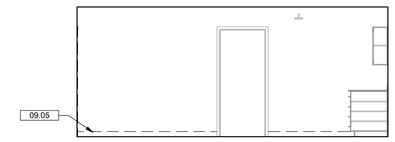

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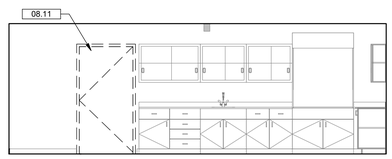

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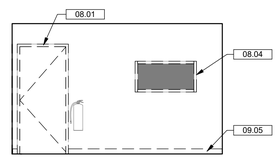

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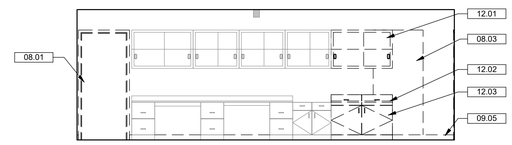

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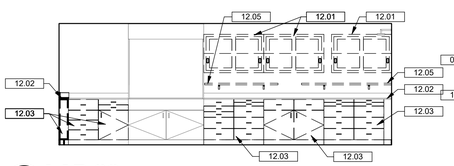

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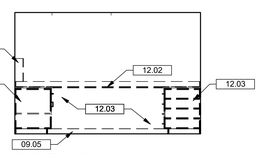

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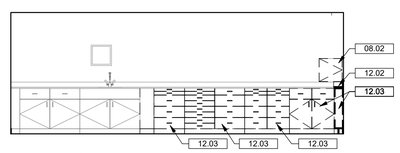

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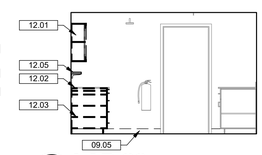

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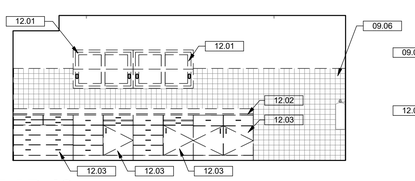

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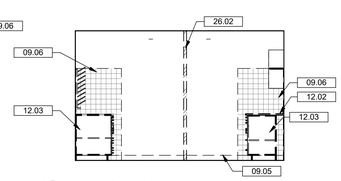

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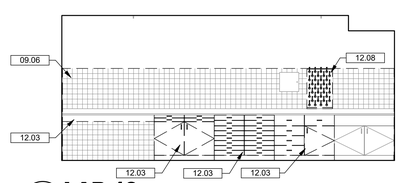

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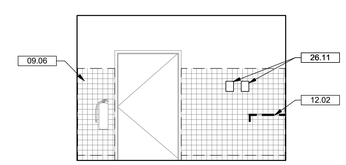

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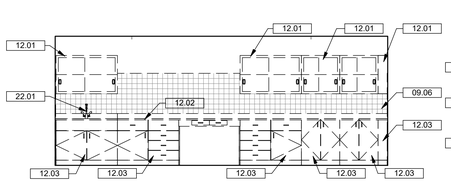

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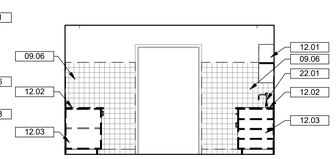

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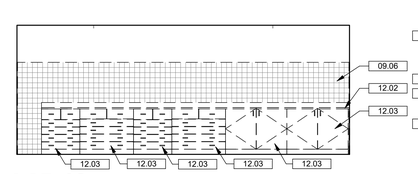

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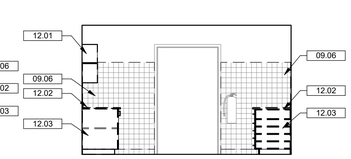

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10. CONTRACTOR IS REQUIRED TO CLEAN ALL FIXED CABINETRY AND INCORPORATED EQUIPMENT (TYP).
11. ALL EXISTING CABINETRY WITH SCRATCHES AND DIS-SIMILAR COLOR WITHIN THE SAME SPACE REQUIRES ADDITIONAL DIS-ASSEMBLEMENT TO PROCURE APPROPRIATE PAINTING IN-SITU. REFER TO NEW INTERIOR ELEVATIONS FOR NEW/TRANSFERRED CABINETRY INFORMATION.

KEYNOTE LEGEND

NO	KEYNOTE
08.01	REMOVE DOOR ASSEMBLY AND DISPOSE APPROPRIATELY. INFILL WALL WITH MATERIALS, FINISHES EQUAL TO OTHER ADJACENT WALLS, PREPARE SURFACES TO RECEIVE NEW FINISHES.
08.02	REMOVE PASS-THRU BOX AND DISPOSE. INFILL WALL WITH MATERIALS, FINISHES EQUAL TO OTHER ADJACENT WALLS. PREPARE SURFACES TO RECEIVE NEW FINISHES.
08.03	CREATE OPENING IN WALLS TO SUITE DOOR ASSEMBLY SHOWN ON FLOOR PLAN AND DESCRIBED PER DOOR SCHEDULE. PATCH AND REFINISH ADJACENT SURFACES AS REQUIRED.
08.04	REMOVE WINDOW ASSEMBLY AND DISPOSE APPROPRIATELY. INFILL WALL WITH MATERIAL, FINISHES EQUAL TO OTHER ADJACENT WALLS. PREPARE SURFACES TO RECEIVE NEW FINISHES.
08.11	REMOVE DOOR ASSEMBLY AND DISPOSE APPROPRIATELY. INFILL PARTIAL WALL TO SUITE NEW OPENING PER FLOOR PLAN, INFILL WITH MATERIALS, FINISHES EQUAL TO OTHER ADJACENT WALLS, PREPARE SURFACES TO RECEIVE NEW FINISHES.
09.04	EXISTING FLOOR FINISH TO REMAIN. REMOVE DAMAGED FLOOR FINISH AS REQUIRED AND REPLACE WITH NEW TO MATCH EXISTING.
09.05	REMOVE BASE AND DISPOSE APPROPRIATELY.
09.06	REMOVE TILES AND DISPOSE APPROPRIATELY. PATCH AND REPAIR SUBSTRATE TO RECEIVE NEW FINISHES.
12.01	EXISTING UPPER CABINET TO BE REMOVED AND SALVAGED. PROTECT DURING CONSTRUCTION AND UNTIL REINSTALLATION.
12.02	EXISTING COUNTERTOP AND BACKSPLASH TO BE REMOVED. DISPOSE OF MATERIAL APPROPRIATELY.
12.03	REFER TO INTERIOR DEMOLITION ELEVATIONS AND CABINETRY CHART FOR CABINETRY REQUIRED TO BE DISMOUNTED AND SALVAGED. PROTECT DURING CONSTRUCTION UNTIL REINSTALLATION.
12.05	REMOVE SHELVES AND DISPOSE APPROPRIATELY.
12.06	REMOVE FLAMMABLE CABINET AND SALVAGE. PROTECT DURING CONSTRUCTION. RE-INSTALL AT LOCATION DESCRIBED ON FLOOR PLAN/ELEVATIONS.
12.08	REMOVE OTHER ELEMENTS REQUIRED FOR INSTALLATION OF NEW FINISHES. REINSTALL WHEN APPROPRIATE, IF REQUESTED.
22.01	EXISTING SINK TO BE REMOVED ASSOCIATED PLUMBING TO BE DISCONNECTED, CAPPED AND REMOVED.
26.02	REMOVE TELE POWER POLE AND DISPOSE APPROPRIATELY, DISCONNECT APPROPRIATELY FROM WIRING AND ASSOCIATED OTHER ELEMENTS. REFER TO ELECTRICAL DRAWINGS.
26.11	REMOVE ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

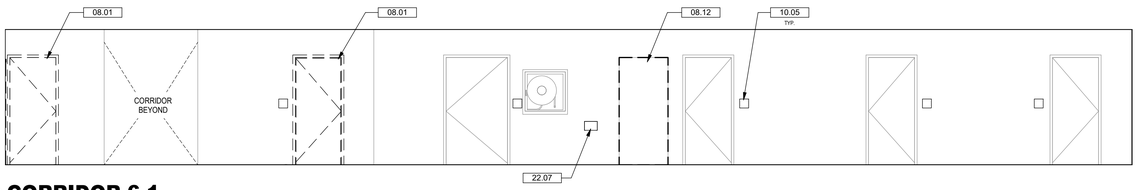
STAMP

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **DEMOLITION ELEVATIONS**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**AD5.02**



14 CORRIDOR 6.1
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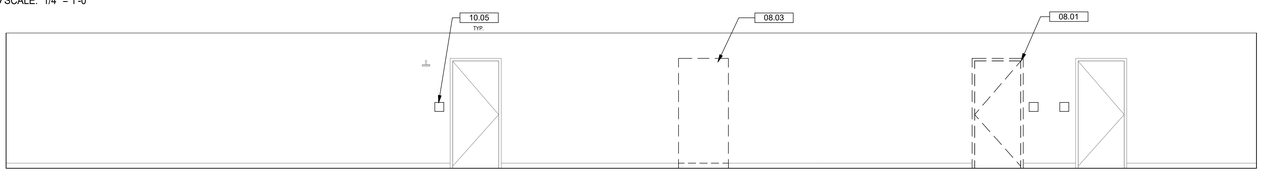

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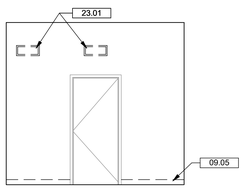

12 OFFICE 8
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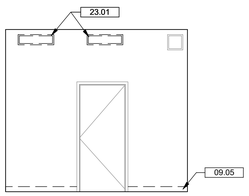

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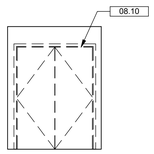

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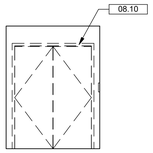

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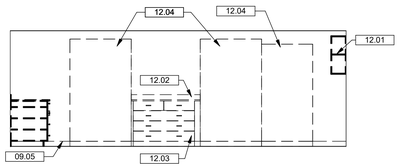

8 LAB 47
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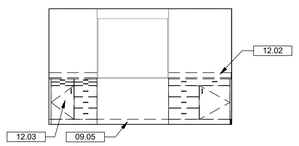

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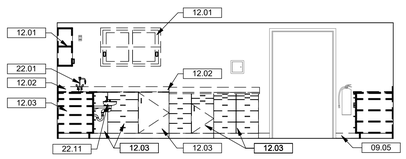

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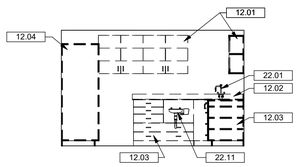

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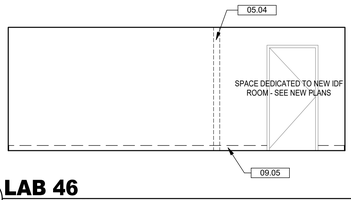

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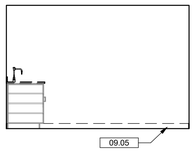

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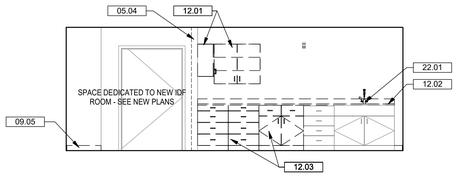

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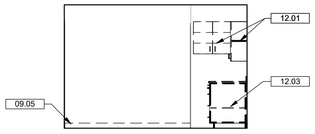

1 LAB 46
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. ALL ELEMENTS, CABINETS, FURNITURE AND SIMILARS BEING RETURNED TO OWNER MUST BE INVENTORIED/LISTED FOR THEIR DELIVERY.
2. ALL SPACES MAY BE SHOWING ELEMENTS/PIPING/DUCTS, CABLES, CONDUITS THAT NEED TO BE REMOVED TO ALLOW NEW CONSTRUCTION/RENOVATION. COORDINATE THESE EFFORTS FOR EACH SPACE AS NECESSARY.
3. ALL THE SPACES OF THIS RENOVATION PROJECT REQUIRE ADJUSTING, PATCHING, REPAIRING THE EXISTING SURFACES OF THE FLOOR, WALLS, CEILINGS, DOORS, TO RECEIVE NEW FINISHES.
4. ALL DOOR HARDWARE REQUIRES TO BE OPERATIONAL. ADJUST/REPAIR, CHANGE AS REQUIRED- SEE CHART FOR MAJOR REPAIRS.
5. ADJUST TO THE REQUIRED APPROPRIATE ELEVATIONS, ALL FLOOR DRAINS, FLOOR SINKS, CLEANOUTS AND SIMILARS - REFER TO PLUMBING DRAWING FOR ADDITIONAL INFORMATION.
6. ALL FURNITURE WILL BE PROVIDED BY UNLV FROM EXISTING COMING FROM OTHER BUILDINGS OR NEW - SHOWN IN DOCUMENT FOR REFERENCE ONLY.
7. NEW DOOR ASSEMBLIES MARKED ON PLAN PER DOOR SCHEDULE.
8. CONTRACTOR SHALL INCLUDE HARDWARE REPAIR/REPLACEMENT REQUIRED FOR THE CORRECT OPERATION OF EXISTING DOORS (TYP.) NEW AS PER SPECS.
9. FOR HOLLOW METAL DOORS AND FRAMES PAINT COLOR, REFER TO FINISH MATERIALS NOTES ON SHEET A2.01.
10. CONTRACTOR IS REQUIRED TO CLEAN ALL FIXED CABINETRY AND INCORPORATED EQUIPMENT (TYP).
11. ALL EXISTING CABINETRY WITH SCRATCHES AND DIS-SIMILAR COLOR WITHIN THE SAME SPACE REQUIRES ADDITIONAL DIS-ASSEMBLEMENT TO PROCURE APPROPRIATE PAINTING IN-SITU. REFER TO NEW INTERIOR ELEVATIONS FOR NEW/TRANSFERRED CABINETRY INFORMATION.

KEYNOTE LEGEND

NO	KEYNOTE
05.04	SAWCUT FOR INFILL OF PARTITION - SEE NEW PLAN.
08.01	REMOVE DOOR ASSEMBLY AND DISPOSE APPROPRIATELY. INFILL WALL WITH MATERIALS, FINISHES EQUAL TO OTHER ADJACENT WALLS, PREPARE SURFACES TO RECEIVE NEW FINISHES.
08.03	CREATE OPENING IN WALLS TO SUITE DOOR ASSEMBLY SHOWN ON FLOOR PLAN AND DESCRIBED PER DOOR SCHEDULE. PATCH AND REFINISH ADJACENT SURFACES AS REQUIRED.
08.10	REMOVE DOOR LEAVES ONLY, INCLUSIVE OF HINGES AND DISPOSE APPROPRIATELY; REPAIR FRAME TO RECEIVE NEW FINISHES.
08.12	CREATE A 3'-0" W X 7'-0" H CLEAR OPENING TO RECESS INTO SPACE A DRINKING FOUNTAIN - FINISH EDGES AND PREPARE OPENING TO BUTT ADJACENT WALLS.
09.05	REMOVE BASE AND DISPOSE APPROPRIATELY.
10.05	EXISTING SIGN METAL PLAQUE TO BE REMOVED AND DISPOSE APPROPRIATELY.
12.01	EXISTING UPPER CABINET TO BE REMOVED AND SALVAGED. PROTECT DURING CONSTRUCTION AND UNTIL REINSTALLATION.
12.02	EXISTING COUNTERTOP AND BACKSPLASH TO BE REMOVED. DISPOSE OF MATERIAL APPROPRIATELY.
12.03	REFER TO INTERIOR DEMOLITION ELEVATIONS AND CABINETRY CHART FOR CABINETRY REQUIRED TO BE DISMOUNTED AND SALVAGED. PROTECT DURING CONSTRUCTION UNTIL REINSTALLATION.
12.04	REMOVE FURNITURE AND RETURN TO OWNER AT REQUIRED LOCATION.
22.01	EXISTING SINK TO BE REMOVED ASSOCIATED PLUMBING TO BE DISCONNECTED, CAPPED AND REMOVED.
22.07	REMOVE EXISTING DRINKING FOUNTAIN AND DISPOSE APPROPRIATELY. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
22.11	REMOVE EYEWASH AND DISPOSE APPROPRIATELY.
23.01	REMOVE HVAC DIFFUSER DISCONNECTING IT FROM EXISTING DUCTS. PATCH AND REPAIR DUCTS AS INDICATED BY MECHANICAL DOCUMENTS. REINSTALL / DISPOSE AS INDICATED PER MECHANICAL DOCUMENTS.

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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

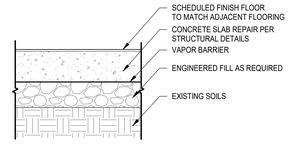
STAMP

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

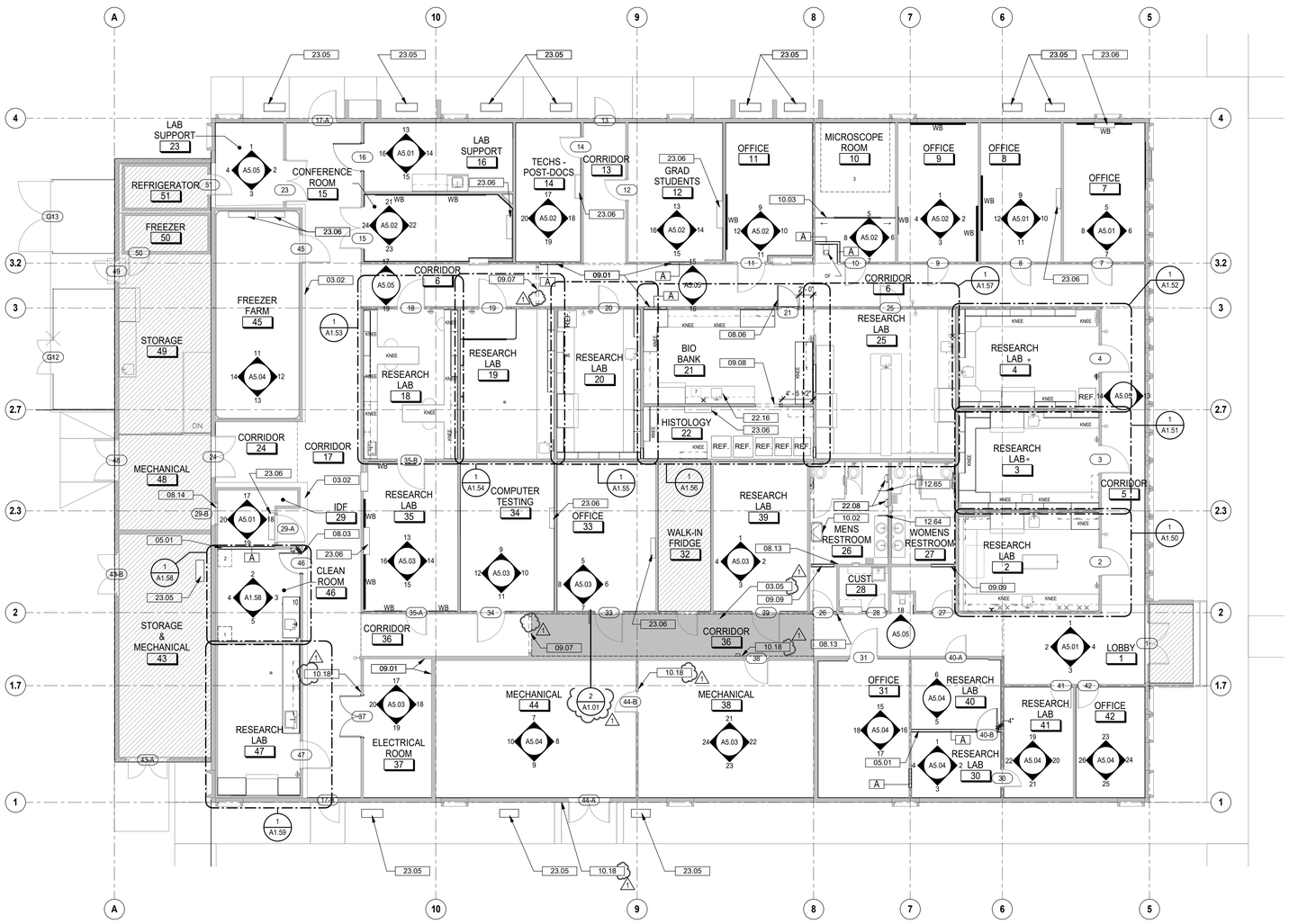
PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **DEMOLITION ELEVATIONS**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**AD5.03**



2 FLOOR REPAIR DETAIL
SCALE: 1" = 1'-0"



1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

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. 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

LEGEND

WB	WHITE BOARD
	N.I.C. OF RENOVATION EXCEPT AS INDICATED

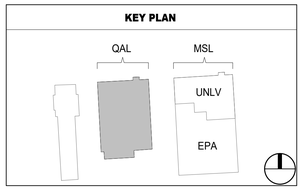
FLOOR PLAN (EQUIPMENT BY USERS/UNLV - NIC)

1	ICE MACHINE
2	AUTOCLAVE
3	MICROSCOPE TABLE

KEYNOTE LEGEND

NO	KEYNOTE
09.02	EXISTING RAISED CONCRETE STEP.
03.05	FIX SUBSTRATE, SLAB ON GRADE, AND FINISH FLOOR. SEE STRUCTURAL AND ARCHITECTURAL DETAILS.
06.01	NEW WALLS TO BE RAISED ABOVE EXISTING 2'X4' LAY-IN CEILING TERMINATING AT UNDERSIDE OF ORIGINAL CEILING WHERE POSSIBLE OR A MIN. OF 6" ABOVE EXISTING 2'X4' LAY-IN. BRACE AS REQUIRED PER STRUCTURAL DRAWINGS. SEAL CONSTRUCTION AT PERIMETERS, BEHIND CONTROL JOINTS AND AT OPENINGS AND PENETRATIONS WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT ON BOTH SIDES OF PARTITION. COMPLY WITH ASTM C919 FOR LOCATING EDGE TRIM AND CLOSING OFF SOUND-FLANKING PATHS AROUND AND THROUGH ASSEMBLIES.
08.03	CREATE OPENING IN WALLS TO SUITE DOOR ASSEMBLY SHOWN ON FLOOR PLAN AND DESCRIBED PER DOOR SCHEDULE. PATCH AND REFINISH ADJACENT SURFACES AS REQUIRED.
08.06	RELOCATED DOOR ASSEMBLY - ADJUST/PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISHES. REFER TO DEMOLITION OF SAME AREA FOR ADDITIONAL SCOPE OF WORK.
08.13	INSTALL NEW ACTUATOR TO OPERATE SWING OF DOOR PER/FOR ACCESSIBILITY REQUIREMENTS.
08.14	DOOR TO REMAIN CLOSED REFER TO HARDWARE FOR REQUIRED UPGRADES.
09.01	ADJUST/PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISHES. REFER TO DEMOLITION OF SAME AREA FOR ADDITIONAL SCOPE OF WORK.
09.07	PAINT FRAME AND WALLS REMAINING (TYP.)
09.08	FINISH EDGES OF NEW RELOCATED OPENING, PATCH AND PREPARE SUBSTRATES TO RECEIVE NEW FINISHES.
09.09	AFTER REMOVAL OF DOOR ASSEMBLY (SEE DEMO PLAN) PATCH AND PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISHES.
10.02	NEW COLLAPSIBLE BABY CHANGING STATION. INSTALL SUCH THAT PROTECTIONS EDGE IS AT 33" A.F.F. WHEN CHANGING STATION IS IN OPERATION.
10.03	CURTAIN AND CURTAIN TRACK SYSTEM, REFER TO FINISHES FOR ADDITIONAL INFORMATION IN ELEVATIONS. (TRANSPARENT FOR CLARITY ON INTERIOR ELEVATIONS).
10.18	SIGN INDICATING USE OF THE ROOM, SEE MOUNTING HEIGHT ON 14/A1.60 AND 19/A1.60.
12.64	REINSTALL EXISTING URINAL SCREEN.
12.65	INSTALL NEW URINAL SCREEN.
22.08	DISMOUNT URINAL AND SALVAGE, STORE AND PROTECT DURING CONSTRUCTION. REINSTALL AT LOCATIONS SHOWN PER CONSTRUCTION DOCUMENTS. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.
22.16	EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.05	EXTERIOR HVAC UNIT. TOP OF UNIT AT 9'-0" SUPPORT PER STRUCTURAL. REFER TO MECHANICAL DRAWINGS.
23.06	INTERIOR HVAC UNIT INSTALLED BETWEEN 7' AND 9' A.F.F. (ACCOMMODATE TO ADJACENT EXISTING CONDITIONS) MOUNTING SUPPORT AND INSTALLATION AS RECOMMENDED PER MANUFACTURER INSTALL FOLLOWING INSTRUCTIONS AS PROVIDED PER ADDITIONAL INFORMATION GIVEN UNDER SPEC SECTION 01 31 32 FOR BASES OF DESIGN LG SPLIT UNITS AND DETAIL 7/S2.01. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

KEY PLAN



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REVISIONS

NO.	DATE	DESCRIPTION
1		AHJ COMMENTS

CONSULTANT

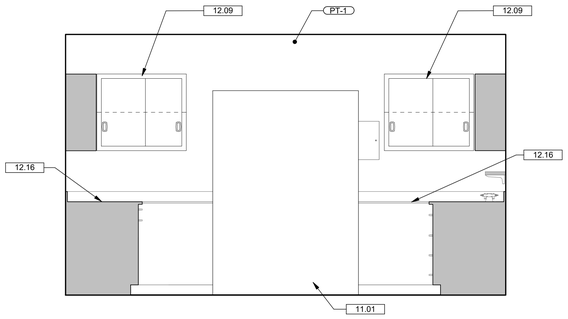
STAMP

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **FLOOR PLAN**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A1.01**



5 RESEARCH LAB 2
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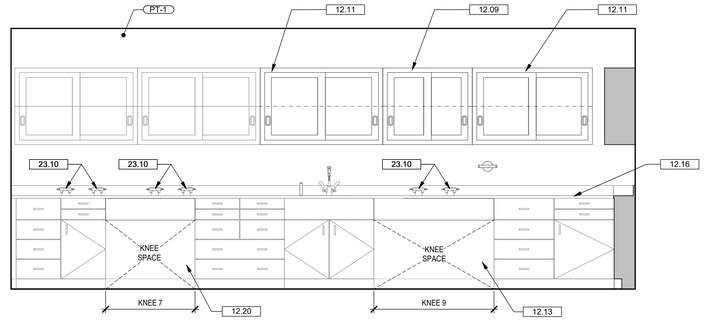

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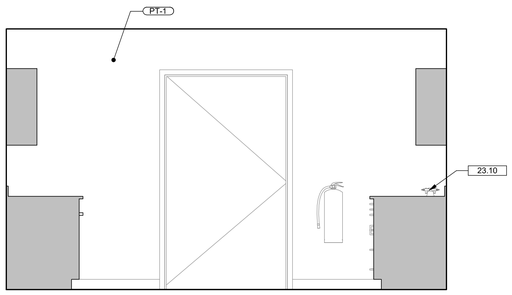

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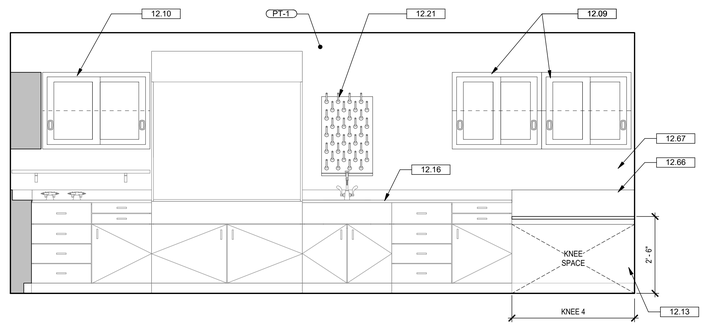

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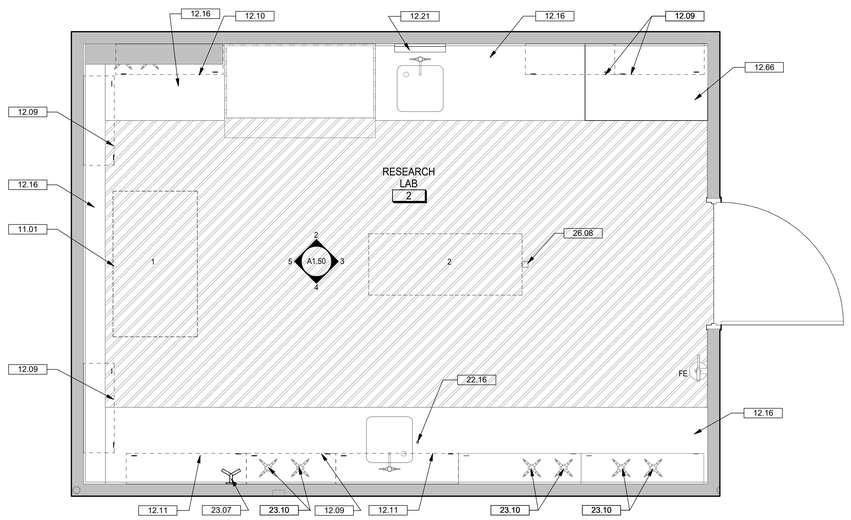


1 RESEARCH LAB 2
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

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.

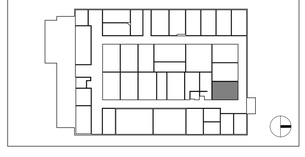
RESEARCH LAB 2 (EQUIPMENT BY USERS/UNLV - NIC)

1	EXISTING REFRIGERATOR 4' 9"W x 2' 9"D
2	ISLAND CART TABLE 24"x60"

KEYNOTE LEGEND

NO	KEYNOTE
11.01	EXISTING REFRIGERATOR WITH GLASS DOORS O.F.C.I.
12.09	EXISTING RELOCATED/NEW UPPER CABINET 35"W x 30"H x 12"D WITH SLIDING GLASS DOORS, COLOR TO MATCH EXISTING CABINETS.
12.10	EXISTING RELOCATED/NEW UPPER CABINET 42"W x 30"H x 12"D WITH SLIDING GLASS DOORS, COLOR TO MATCH EXISTING CABINETS.
12.11	EXISTING RELOCATED/NEW UPPER CABINET 47"W x 30"H x 12"D WITH SLIDING GLASS DOORS, COLOR TO MATCH EXISTING CABINETS.
12.13	EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 47"W/48"W.
12.16	EXISTING COUNTERTOP TO REMAIN; PROTECT IN PLACE DURING CONSTRUCTION. ADD BRACKET SUPPORTS WHERE NEEDED, TYP.
12.20	EXISTING RELOCATED/NEW KNEE SPACE 35"W/36"W.
12.21	EXISTING/RELOCATED DRAIN BOARD.
12.66	NEW CHEMICAL RESISTANT COUNTERTOP MATCHING ADJACENT EXISTING.
12.67	NEW CHEMICAL RESISTANT BACKSPLASH.
22.16	EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.07	VACUUM AND AIR SYSTEM REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.10	EXISTING VACUUM AND AIR VALVE.
26.08	EXISTING ELECTRICAL POLE TO REMAIN

LAB KEY PLAN



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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

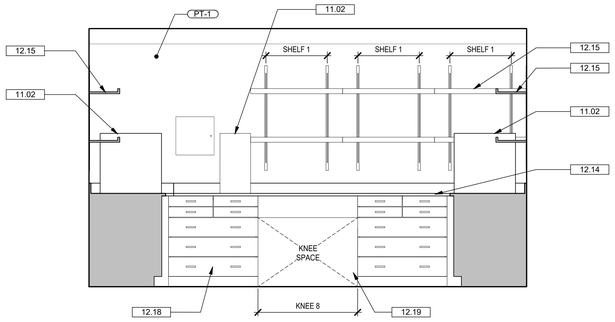
STAMP

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **ENLARGED FLOOR PLANS & EQUIPMENT - RESEARCH LAB 2**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A1.50**



5 RESEARCH LAB 3
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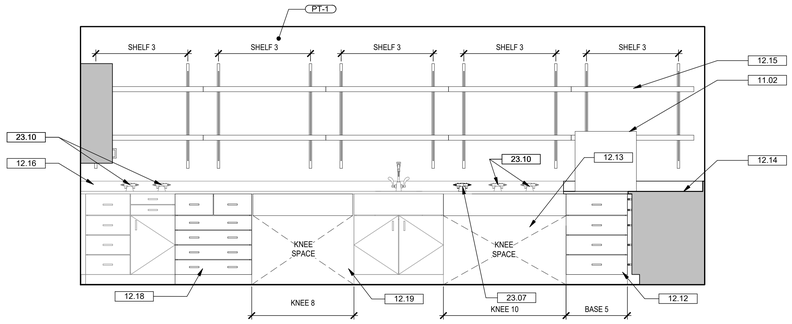

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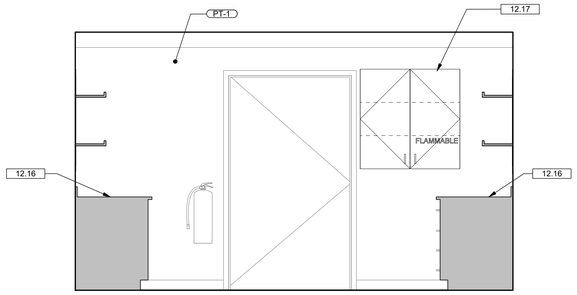

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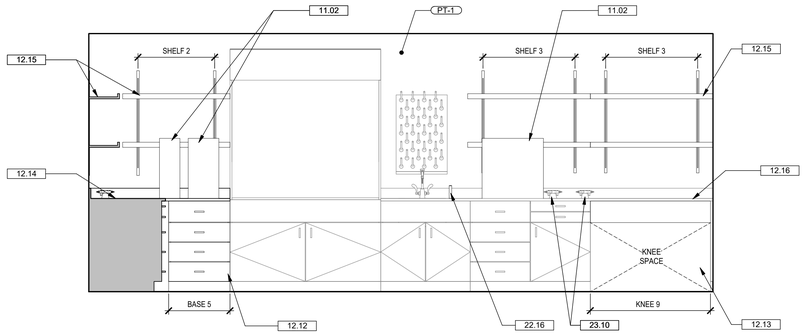

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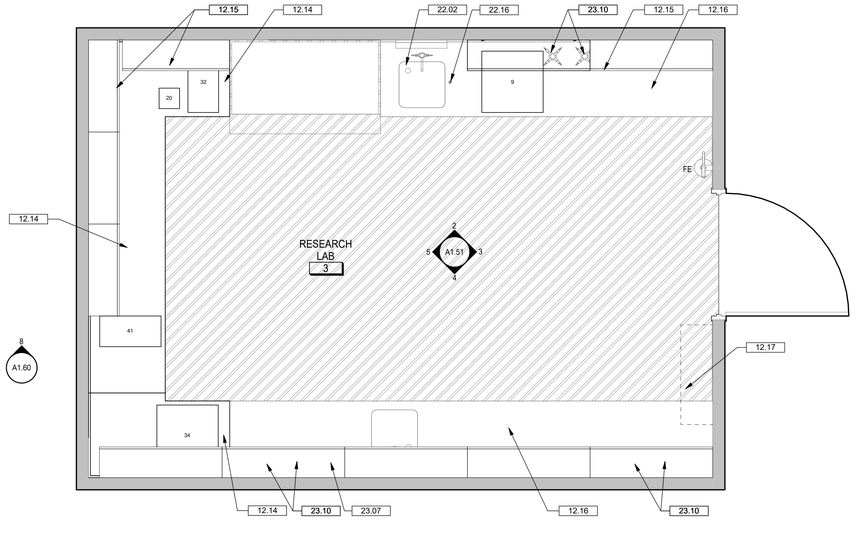


1 RESEARCH LAB 3
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

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.

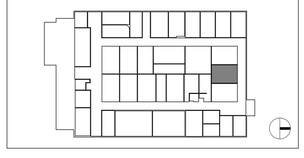
RESEARCH LAB 3 EQUIPMENT LEGEND (EQUIPMENT BY USERS/UNLV - NIC)

9	WATER CARBOY 24" x 24"
20	VORTEX MIXER 8" x 8"
32	DIGITAL DRY BATH 12" x 24"
34	BELLY DANCER
41	LIGHT MICROSCOPE

KEYNOTE LEGEND

NO	KEYNOTE
11.02	EXISTING/NEW LAB EQUIPMENT N.I.C. REFER TO ENLARGED PLANS FOR PLAN LOCATION AND NAME.
12.12	EXISTING RELOCATED/NEW 24"W LOWER CABINET WITH DRAWERS, COLOR TO MATCH EXISTING CABINETS.
12.13	EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 47"W/48"W.
12.14	NEW CHEMICAL RESISTANT RESIN COUNTERTOP - COLOR TO MATCH EXISTING.
12.15	NEW 12"D ADJUSTABLE SHELVING WITH EDGE LIP. SECTIONS OF 48" L MAX. START ON 24" WITH INCREMENTS OF 6".
12.16	EXISTING COUNTERTOP TO REMAIN; PROTECT IN PLACE DURING CONSTRUCTION. ADD BRACKET SUPPORTS WHERE NEEDED, TYP.
12.17	EXISTING RELOCATED FLAMMABLE CABINET. PROTECT DURING CONSTRUCTION AND REINSTALL AT APPROPRIATE TIME. ENSURE APPROPRIATE CONNECTION TO MP LINES.
12.18	EXISTING RELOCATED/NEW BASE CABINET WITH DRAWERS 30"W, COLOR TO MATCH EXISTING CABINETS.
12.19	EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 30"W/40"W.
22.02	EXISTING LAB SINK AND ASSOCIATED PLUMBING TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION.
22.16	EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.07	VACUUM AND AIR SYSTEM REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.10	EXISTING VACUUM AND AIR VALVE.

LAB KEY PLAN



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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

STAMP

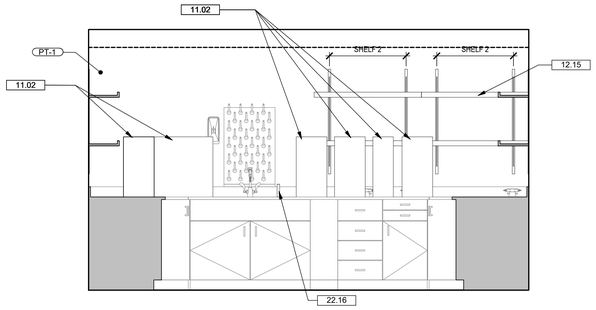
WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE ENLARGED FLOOR PLANS & EQUIPMENT - RESEARCH LAB 3

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	A1.51



5 RESEARCH LAB 4
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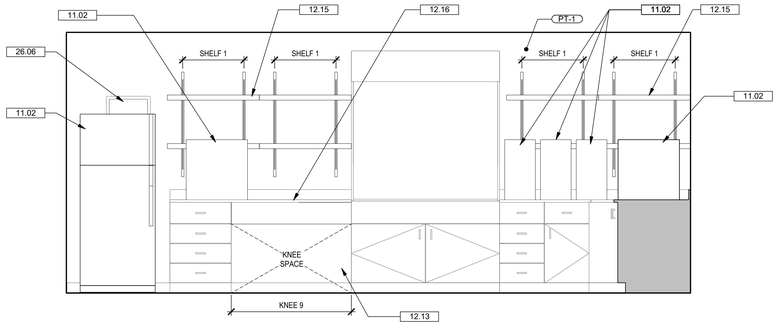

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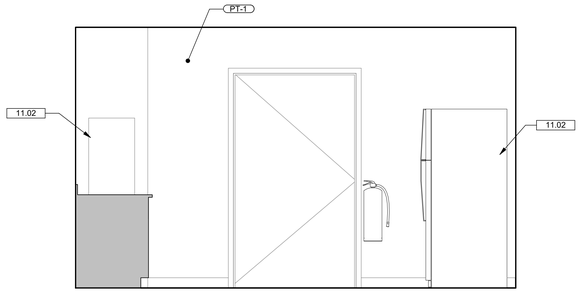

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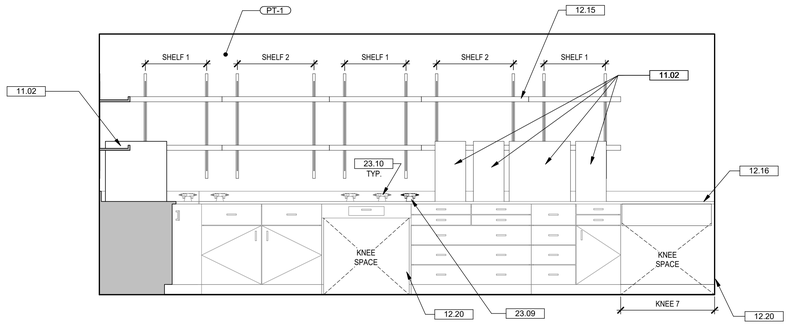

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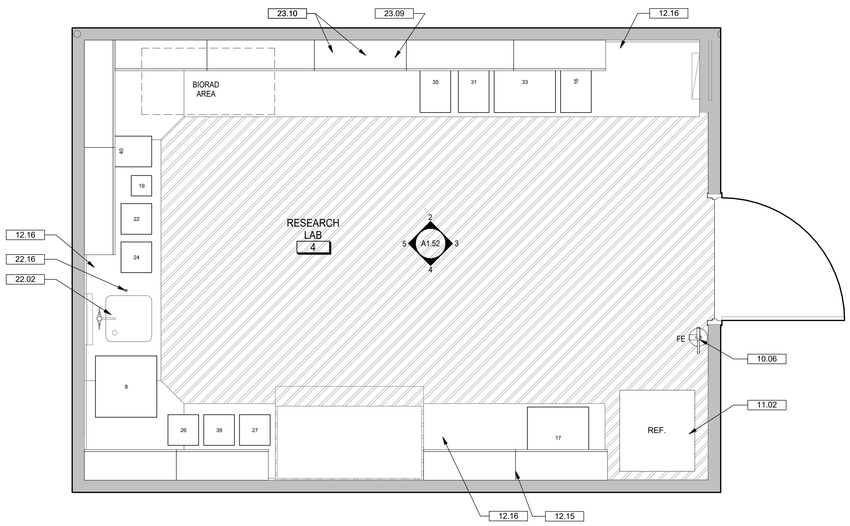


1 RESEARCH LAB 4
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

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.

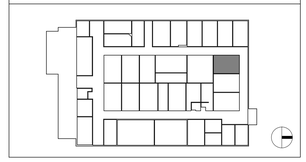
RESEARCH LAB 4 EQUIPMENT LEGEND (EQUIPMENT BY USERS/UNLV - NIC)

8	WATER CARBOY 24" x 24"
16	REFRIDGERATED MICRO CENTRIFUDGE 12" x 24"
17	MICROWAVE 24" x 24"
19	VORTEX MIXER 8" x 8"
22	ANALYTICAL SCALE 12" x 12"
24	SCALE 12" x 12"
26	HOT PLATE STIRRER 12" x 12"
27	HOT PLATE STIRRER 12" x 12"
31	DIGITAL DRY BATH 12" x 24"
33	BELLY DANCER 24" x 24"
35	BIORAD PCR MACHINE 12" x 24"
36	BIORAD AGAROSE GEL SET UP 36" x 36"
37	BIORAD ACRYLAMIDE GEL SET UP 36" x 36"
38	BIORAD ACRYLAMIDE GEL SET UP 36" x 36"
39	PH METER 12" x 12"
40	UV LIGHT BOX & CAMERA 24" x 12"

KEYNOTE LEGEND

NO	KEYNOTE
10.06	EXISTING RELOCATED FIRE EXTINGUISHER.
11.02	EXISTING/NEW LAB EQUIPMENT N.I.C. REFER TO ENLARGED PLANS FOR PLAN LOCATION AND NAME.
12.13	EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 47"W/48"W.
12.15	NEW 12"D ADJUSTABLE SHELVING WITH EDGE LIP. SECTIONS OF 48" L MAX. START ON 24" WITH INCREMENTS OF 6".
12.16	EXISTING COUNTERTOP TO REMAIN; PROTECT IN PLACE DURING CONSTRUCTION. ADD BRACKET SUPPORTS WHERE NEEDED, TYP.
12.20	EXISTING RELOCATED/NEW KNEE SPACE 35"W/36"W.
22.02	EXISTING LAB SINK AND ASSOCIATED PLUMBING TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION.
22.16	EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.09	NEW VACUUM REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.10	EXISTING VACUUM AND AIR VALVE.
26.06	EXISTING ACCESS DOOR.

LAB KEY PLAN



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REVISIONS

NO.	DATE	DESCRIPTION

CONSULTANT

STAMP

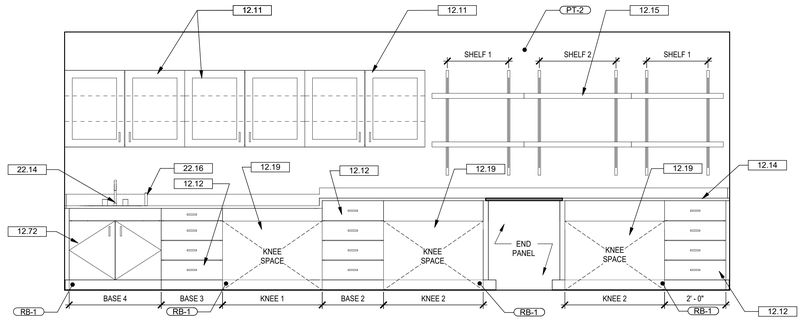
WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

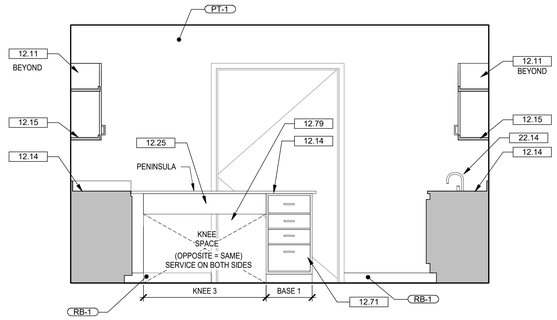
PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **ENLARGED FLOOR PLANS & EQUIPMENT - RESEARCH LAB 4**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A1.52**



5 RESEARCH LAB 18
SCALE: 1/2" = 1'-0"



4 RESEARCH LAB 18
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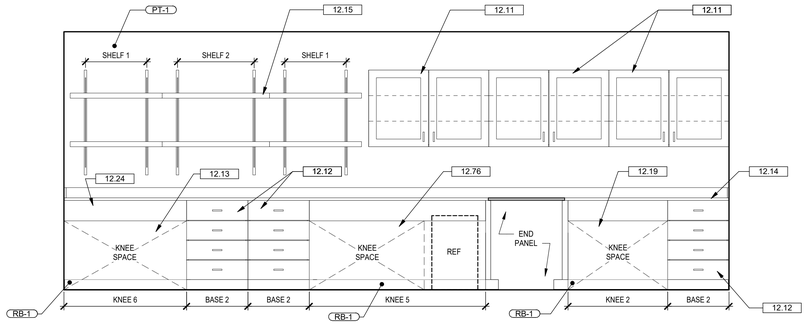

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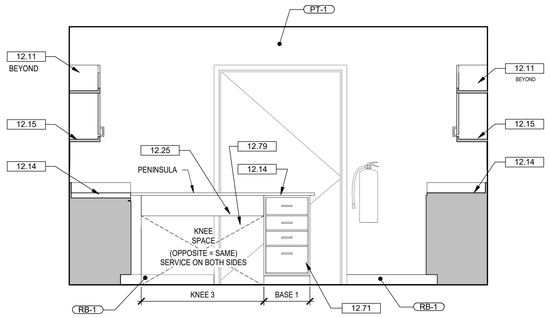

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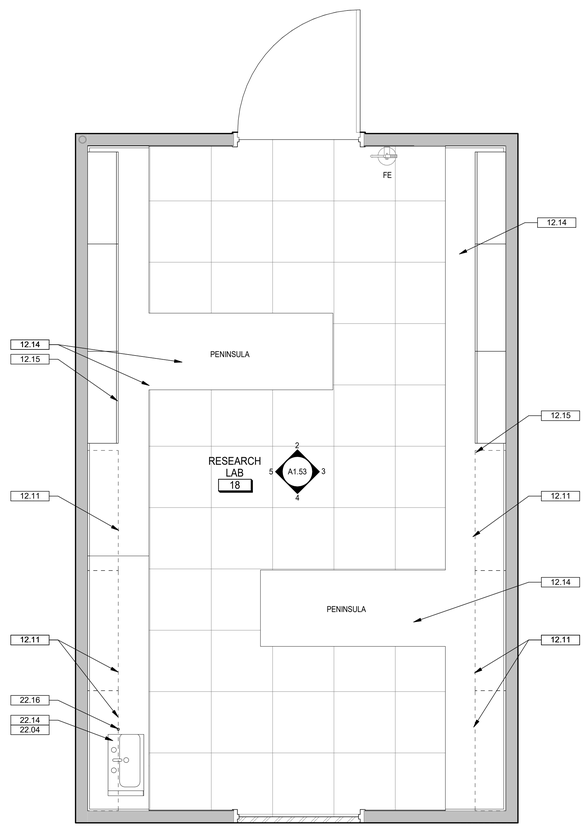


1 RESEARCH LAB 18
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

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'-0" 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.

DURCAN BASIS OF DESIGN MODELS
RESEARCH LAB 18

DURCON RESIN DROP-IN ACCESSIBLE MODEL A55
29"LX15"WX4.8"D, OUTLET: X=3.5, Y=3.5, OUTLET IS CORNER, WEIGHT=47 LB.

RESEARCH LAB 18 EQUIPMENT LEGEND
(EQUIPMENT BY USERS/UNLV - NIC)

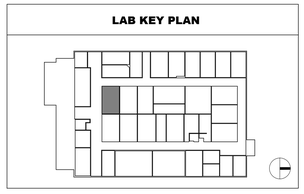
UNDERCOUNTER REFRIGERATOR (O.F.O.I)

FE = FIRE EXTINGUISHER ON BRACKETS (O.F.C.I. WHEN SHOWN AS NEW/RELOCATED)

KEYNOTE LEGEND

NO	KEYNOTE
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.
12.13	EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 47"W/48"W.
12.14	NEW CHEMICAL RESISTANT RESIN COUNTERTOP - COLOR TO MATCH EXISTING.
12.15	NEW 12"D ADJUSTABLE SHELVING WITH EDGE LIP. SECTIONS OF 48" L MAX. START ON 24" WITH INCREMENTS OF 6".
12.19	EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 39"W/40"W.
12.24	EXISTING RELOCATED/NEW KNEE SPACE 47"W/48"W
12.25	NEW KNEE SPACE 52"W.
12.71	NEW 18" W LOWER CABINET WITH DRAWERS, COLOR TO MATCH EXISTING CABINETS.
12.72	SWING DOOR WITH INTEGRAL TOE KICK TO SWING TOGETHER WHEN DOOR OPENS.
12.76	EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 69"W.
12.79	EXISTING RELOCATED/NEW KNEE SPACE 47"W/48"W.
22.04	NEW SINK, REFER TO PLUMBING DRAWINGS, CONNECT AS REQUIRED PER PLUMBING DRAWINGS SEE SINK LEGEND DESCRIPTION ABOVE.
22.14	PROVIDE 1" THICK NEOPRENE INSULATED COVER FOR ALL EXPOSED PIPING.
22.16	EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.

LAB KEY PLAN



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REVISIONS

NO.	DATE	DESCRIPTION

CONSULTANT

STAMP

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE ENLARGED FLOOR PLANS & EQUIPMENT - RESEARCH LAB 18

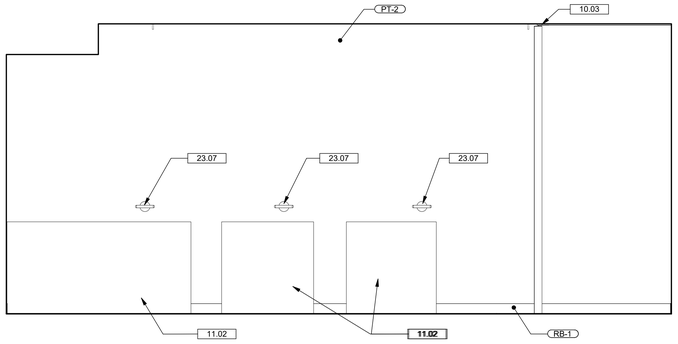
DATE 11/02/17

PROJECT NO. SCS-1640

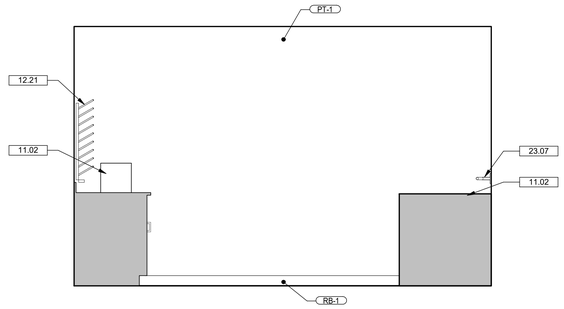
SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO.

A1.53



5 RESEARCH LAB 19
SCALE: 1/2" = 1'-0"



4 RESEARCH LAB 19
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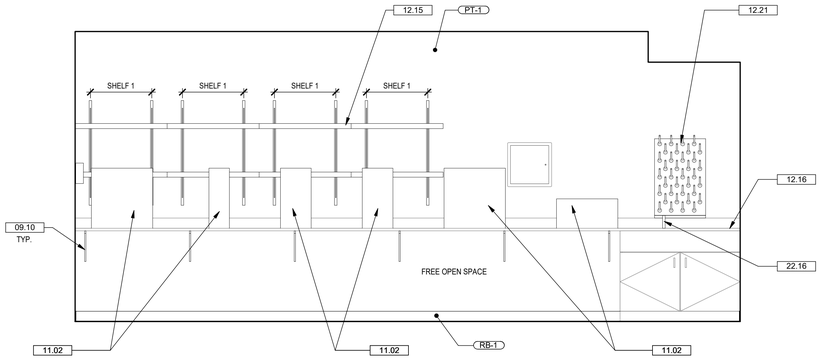

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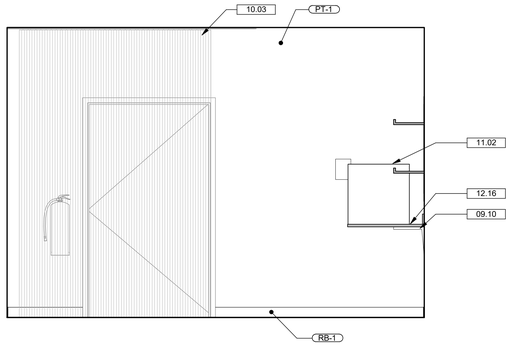
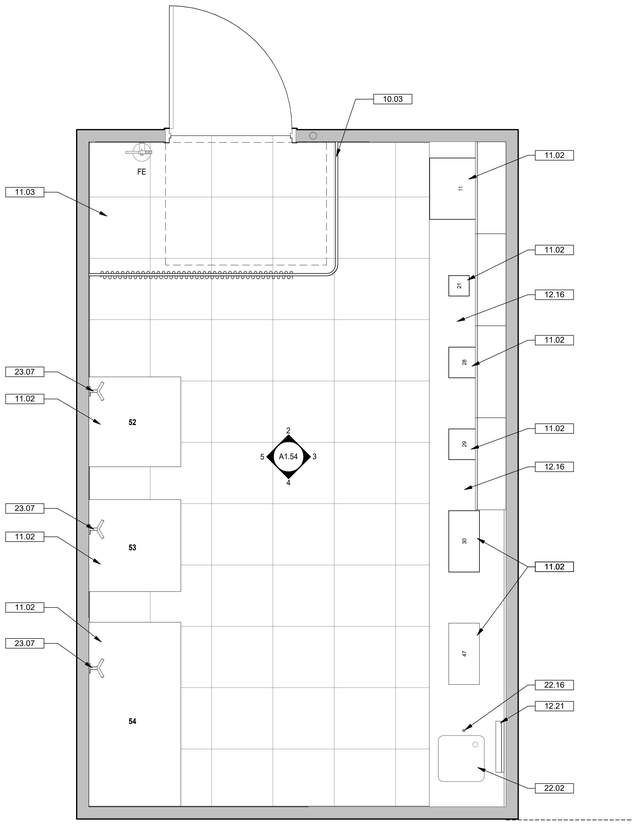
SCALE: 1/2" = 1'-0"



2 RESEARCH LAB 19
SCALE: 1/2" = 1'-0"



1 RESEARCH LAB 19
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

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'-0" 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.

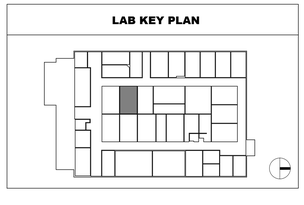
RESEARCH LAB 19 EQUIPMENT LEGEND (EQUIPMENT BY USERS/UNLV - NIC)

11	WATER CARBOY 24" x 24"
18	MICROWAVE 24" x 24"
21	VORTEX MIXER 8" x 8"
23	ANALYTICAL SCALE 12" x 12"
25	SCALE 12" x 12"
28	HOT PLATE STIRRER 12" x 12"
29	SONICATOR 12" x 12"
30	WATER BATH 24" x 12"
47	PIPE PULLER 24" x 12"
48	COMPRESSION BRAIN SLICER 24" x 24"
52	SUCTION 36" x 36"
53	SUCTION 36" x 12"
54	SUCTION IMAGING PATCHING 36" x 36"

KEYNOTE LEGEND

NO	KEYNOTE
09.10	L SHAPE/TRIANGULAR METAL BRACKET.
10.03	CURTAIN AND CURTAIN TRACK SYSTEM. REFER TO FINISHES FOR ADDITIONAL INFORMATION IN ELEVATIONS. (TRANSPARENT FOR CLARITY ON INTERIOR ELEVATIONS).
11.02	EXISTING/NEW LAB EQUIPMENT N.I.C. REFER TO ENLARGED PLANS FOR PLAN LOCATION AND NAME.
11.03	SPACE ALLOCATED FOR GAS TANKS ON CARTS AND REFRIGERATOR.
12.15	NEW: 12"D ADJUSTABLE SHELVING WITH EDGE LIP. SECTIONS OF 48" L MAX. START ON 24" WITH INCREMENTS OF 6".
12.16	EXISTING COUNTERTOP TO REMAIN; PROTECT IN PLACE DURING CONSTRUCTION. ADD BRACKET SUPPORTS WHERE NEEDED, TYP.
12.21	EXISTING/RELOCATED DRAIN BOARD.
22.02	EXISTING LAB SINK AND ASSOCIATED PLUMBING TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION.
22.16	EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.07	VACUUM AND AIR SYSTEM REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.

LAB KEY PLAN



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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

STAMP

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE ENLARGED FLOOR PLANS & EQUIPMENT - RESEARCH LAB 19

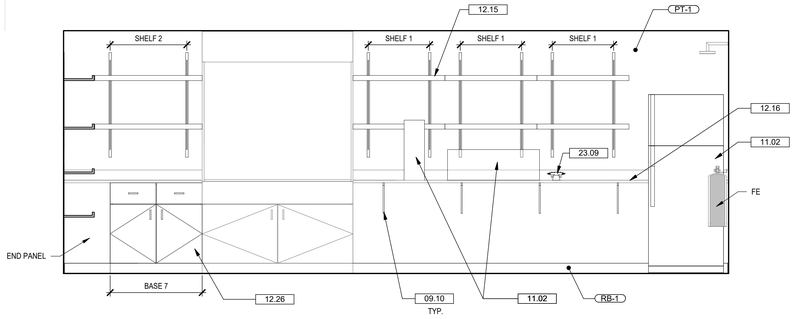
DATE 11/02/17

PROJECT NO. SCS-1640

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO.

A1.54



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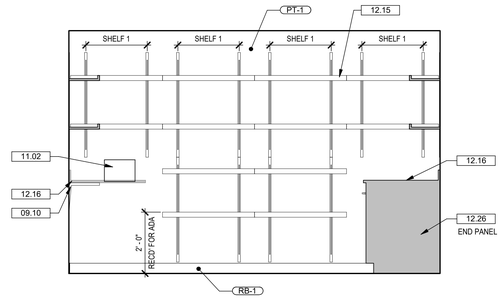

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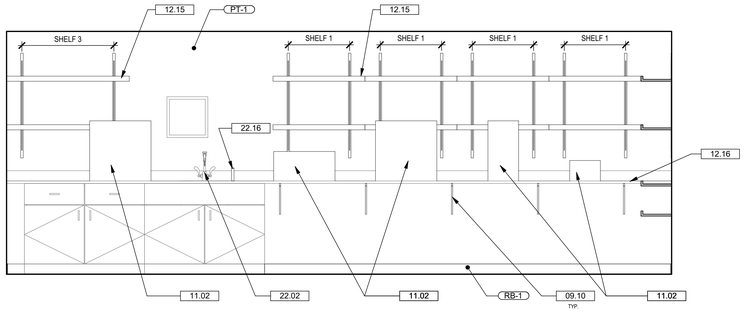

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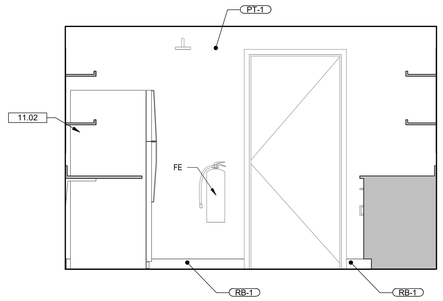

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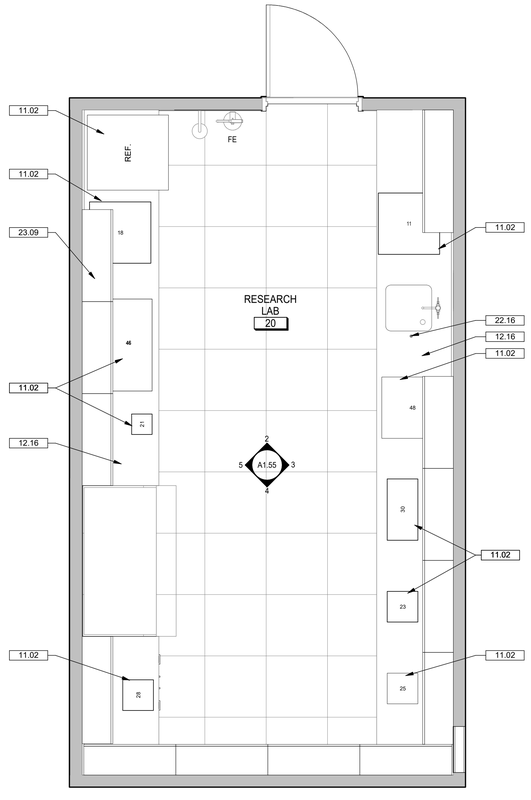


1 RESEARCH LAB 20
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

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.

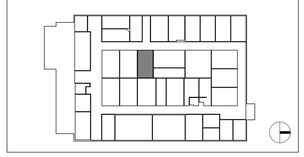
RESEARCH LAB 20 EQUIPMENT LEGEND (EQUIPMENT BY USERS/UNLV - NIC)

11	WATER CARBOY 24" x 24"
47	PIPETTE PULLER 24" x 12"
48	WATER CARBOY 24" x 24"
30	WATER BATH 12" x 24"
23	ANALYTICAL SCALE 12" x 12"
25	SCALE 12" x 12"
28	HOT PLATE STIRRER 12" x 12"
21	VORTEX MIXER 8" x 8"
18	MICROWAVE 24" x 24"
46	ANALYSIS COMPUTER /MONITOR STATION 48" x 20" SPACE

KEYNOTE LEGEND

NO	KEYNOTE
09.10	L SHAPE/TRIANGULAR METAL BRACKET.
11.02	EXISTING/NEW LAB EQUIPMENT N.I.C. REFER TO ENLARGED PLANS FOR PLAN LOCATION AND NAME.
12.15	NEW 12"D ADJUSTABLE SHELVING WITH EDGE LIP. SECTIONS OF 48" L MAX. START ON 24" WITH INCREMENTS OF 6".
12.16	EXISTING COUNTERTOP TO REMAIN; PROTECT IN PLACE DURING CONSTRUCTION. ADD BRACKET SUPPORTS WHERE NEEDED, TYP.
12.26	EXISTING RELOCATED/NEW BASE CABINET 30"W WITH TWO DOORS AND TWO DRAWERS, COLOR TO MATCH EXISTING CABINETS.
22.02	EXISTING LAB SINK AND ASSOCIATED PLUMBING TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION.
22.16	EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.09	NEW VACUUM REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.

LAB KEY PLAN



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REVISIONS

NO.	DATE	DESCRIPTION

CONSULTANT

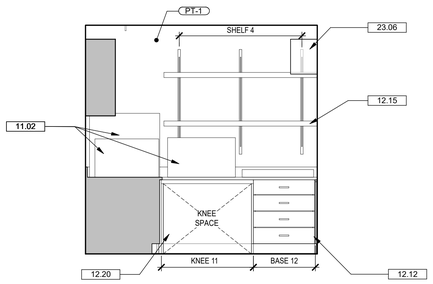
STAMP

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **ENLARGED FLOOR PLANS & EQUIPMENT - RESEARCH LAB 20**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A1.55**



9 HISTOLOGY 22
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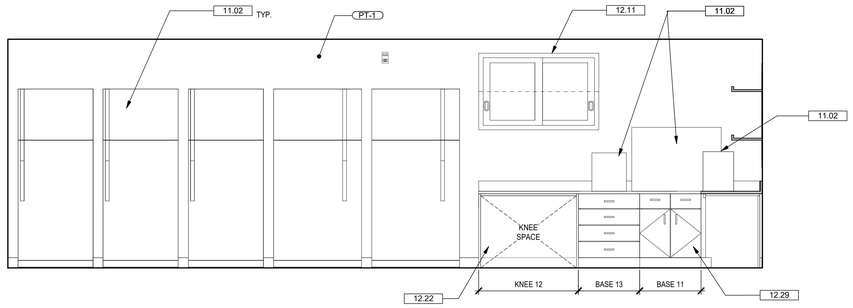

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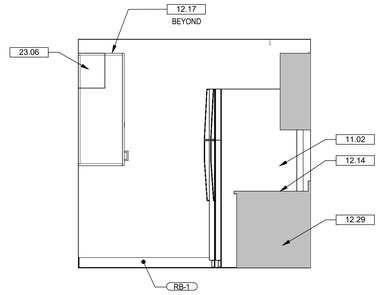

7 HISTOLOGY 22
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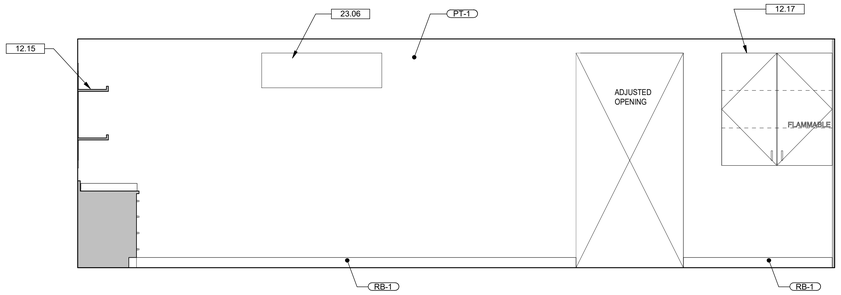

6 HISTOLOGY 22
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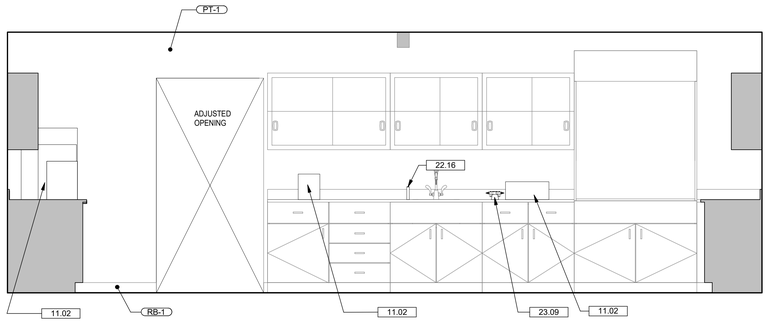
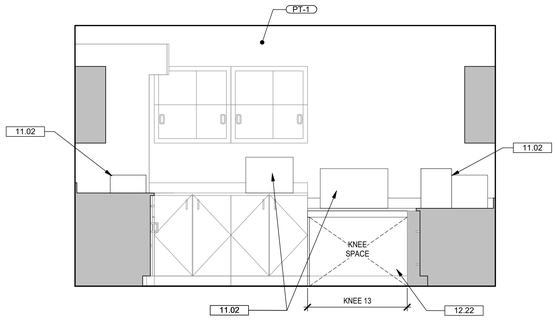


5 BIO BANK 21
SCALE: 1/2" = 1'-0"



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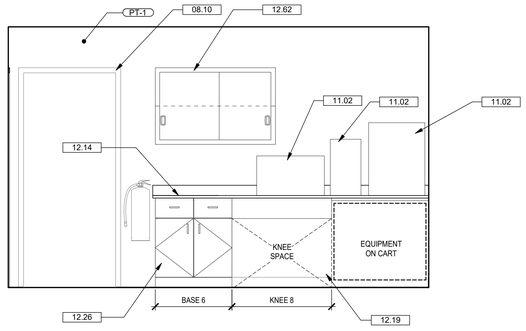

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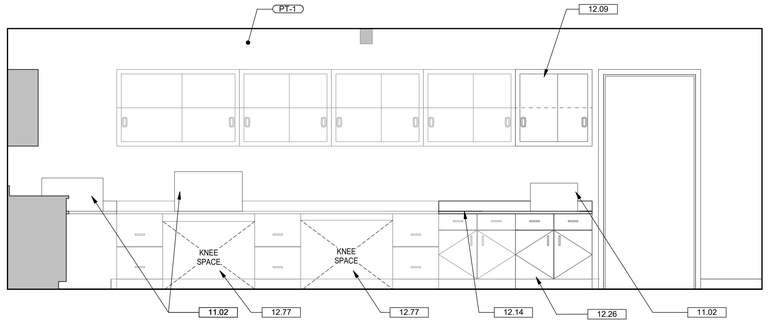

2 BIO BANK 21
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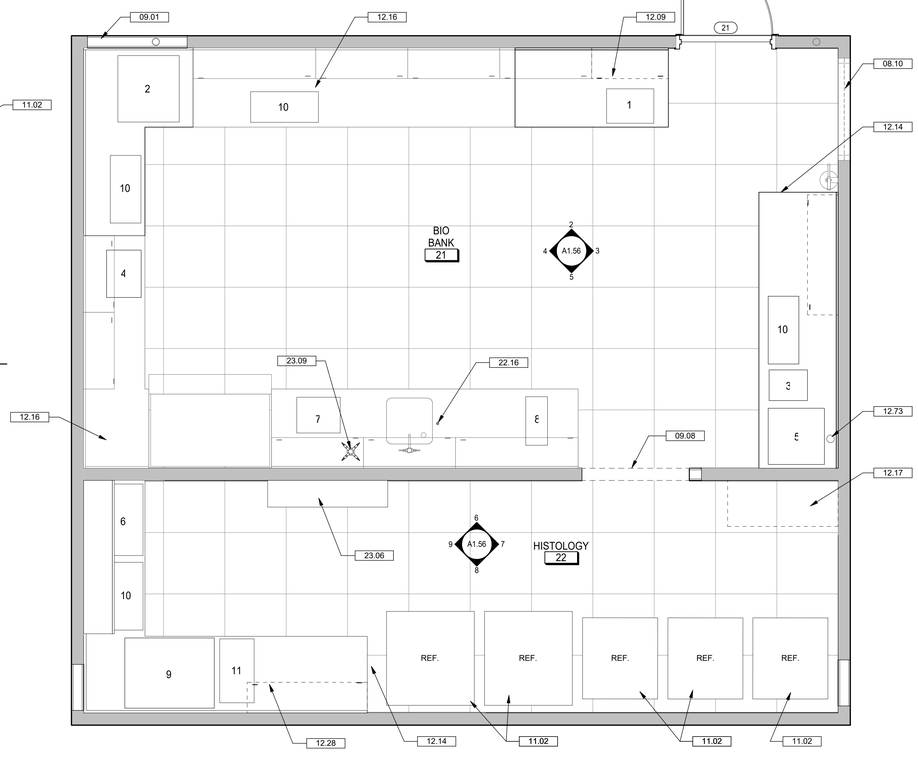


1 BIO BANK 21 AND HISTOLOGY 22
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

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.

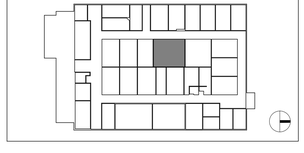
BIO BANK 21 AND HISTOLOGY 22 EQUIPMENT LEGEND (EQUIPMENT BY USERS/UNLV - NIC)

1	PCR 13 1/2" x 18 1/2"
2	LUMINEX 200 24" x 26"
3	INCUBATOR 12" x 15"
4	RT-PCR 18 1/2" x 13 1/2"
5	FLOW CYTOMETER 22" x 22"
6	SMALL SCALES 28" x 22"
7	PLATE READER 17" x 14"
8	SONICATOR 8 1/2" x 19"
9	MICROSCOPE 35" x 27 1/2"
10	COMPUTER STATION 26 1/2" x 12"
11	LARGE CENTRIFUGE 13 1/2" x 25"

KEYNOTE LEGEND

NO	KEYNOTE
08.06	RELOCATED DOOR ASSEMBLY - ADJUST/PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISHES. REFER TO DEMOLITION OF SAME AREA FOR ADDITIONAL SCOPE OF WORK.
08.10	REMOVE DOOR LEAVES ONLY, INCLUSIVE OF HINGES AND DISPOSE APPROPRIATELY; REPAIR FRAME TO RECEIVE NEW FINISHES.
09.01	ADJUST/PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISHES. REFER TO DEMOLITION OF SAME AREA FOR ADDITIONAL SCOPE OF WORK.
09.08	FINISH EDGES OF NEW RELOCATED OPENING, PATCH AND PREPARE SUBSTRATES TO RECEIVE NEW FINISHES.
11.02	EXISTING/NEW LAB EQUIPMENT N.I.C. REFER TO ENLARGED PLANS FOR PLAN LOCATION AND NAME.
12.09	EXISTING RELOCATED/NEW UPPER CABINET 35"W x 30"H x 12"D WITH SLIDING GLASS DOORS, COLOR TO MATCH EXISTING CABINETS.
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.
12.15	NEW 12"D ADJUSTABLE SHELVING WITH EDGE LIP. SECTIONS OF 48" L MAX. START ON 24" WITH INCREMENTS OF 6".
12.16	EXISTING COUNTERTOP TO REMAIN; PROTECT IN PLACE DURING CONSTRUCTION. ADD BRACKET SUPPORTS WHERE NEEDED, TYP.
12.17	EXISTING RELOCATED FLAMMABLE CABINET. PROTECT DURING CONSTRUCTION AND REINSTALL AT APPROPRIATE TIME. ENSURE APPROPRIATE CONNECTION TO M/P LINES.
12.19	EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 39"W/40"W.
12.20	EXISTING RELOCATED/NEW KNEE SPACE 35"W/36"W.
12.22	EXISTING RELOCATED/NEW KNEE SPACE 42"W.
12.26	EXISTING RELOCATED/NEW BASE CABINET 30"W WITH TWO DOORS AND TWO DRAWERS, COLOR TO MATCH EXISTING CABINETS.
12.28	EXISTING RELOCATED/NEW UPPER CABINET 36"W X 30"H X 12"D WITH TWO DOORS, COLOR TO MATCH EXISTING CABINETS.
12.29	EXISTING RELOCATED/NEW BASE CABINET 48"W X 29"H WITH ONE DOOR AND FOUR DRAWERS. COLOR TO MATCH EXISTING CABINETS.
12.62	EXISTING RELOCATED/NEW UPPER CABINET 47"W X 30"H X 12"D WITH SLIDING DOORS. COLOR TO MATCH EXISTING CABINETS.
12.73	GROMMET ON COUNTERTOP
12.77	EXISTING RELOCATED/NEW KNEE SPACE WITH BACKSPLASH 35W/36"W.
22.16	EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.06	INTERIOR HVAC UNIT INSTALLED BETWEEN 7' AND 9' A.F.F. (ACCOMMODATE TO ADJACENT EXISTING CONDITIONS) MOUNTING SUPPORT AND INSTALLATION AS RECOMMENDED PER MANUFACTURER INSTALL FOLLOWING INSTRUCTIONS AS PROVIDED PER ADDITIONAL INFORMATION GIVEN UNDER SPEC SECTION 01 31 32 FOR BASES OF DESIGN LG SPLIT UNITS AND DETAIL 7/S2.01. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
23.09	NEW VACUUM RE

LAB KEY PLAN FOR ADDITIONAL INFORMATION.



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REVISIONS

NO.	DATE	DESCRIPTION

CONSULTANT

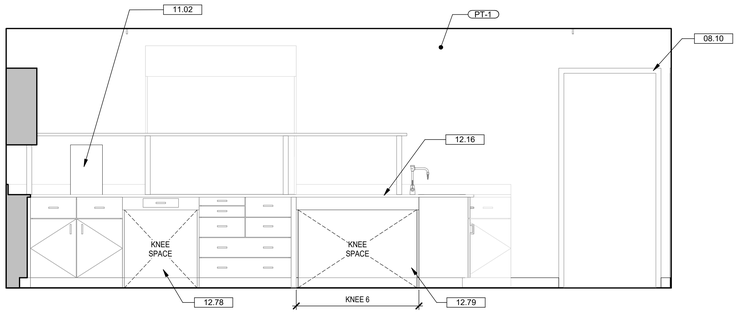
STAMP

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

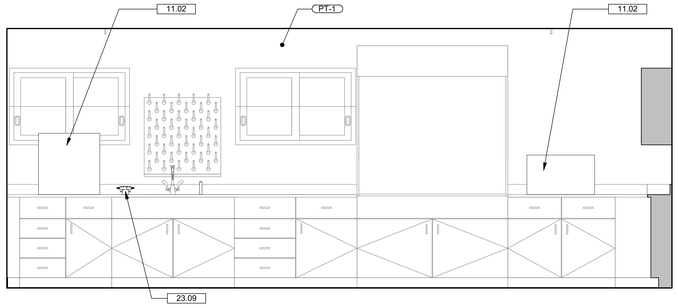
PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE ENLARGED FLOOR PLANS & EQUIPMENT - BIO BANK 21 AND HISTOLOGY 22

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	A1.56



7 RESEARCH LAB 25
SCALE: 1/2" = 1'-0"



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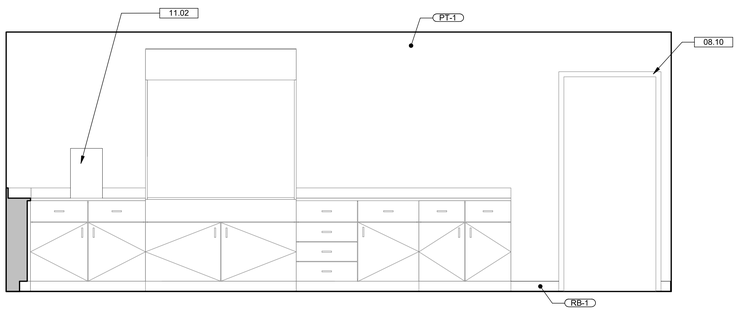

5 RESEARCH LAB 25
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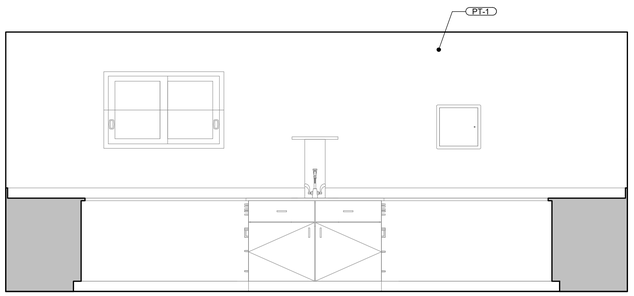
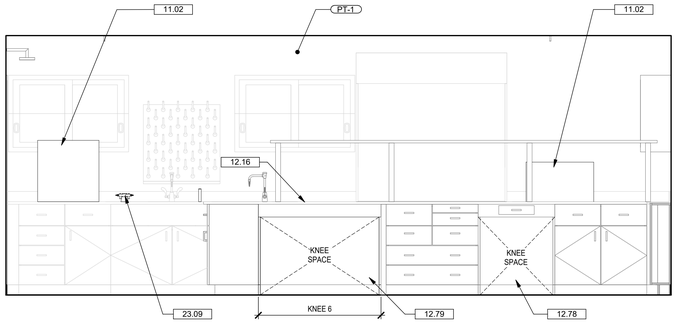
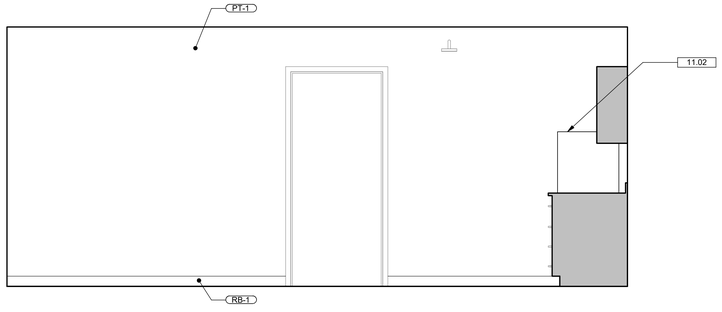


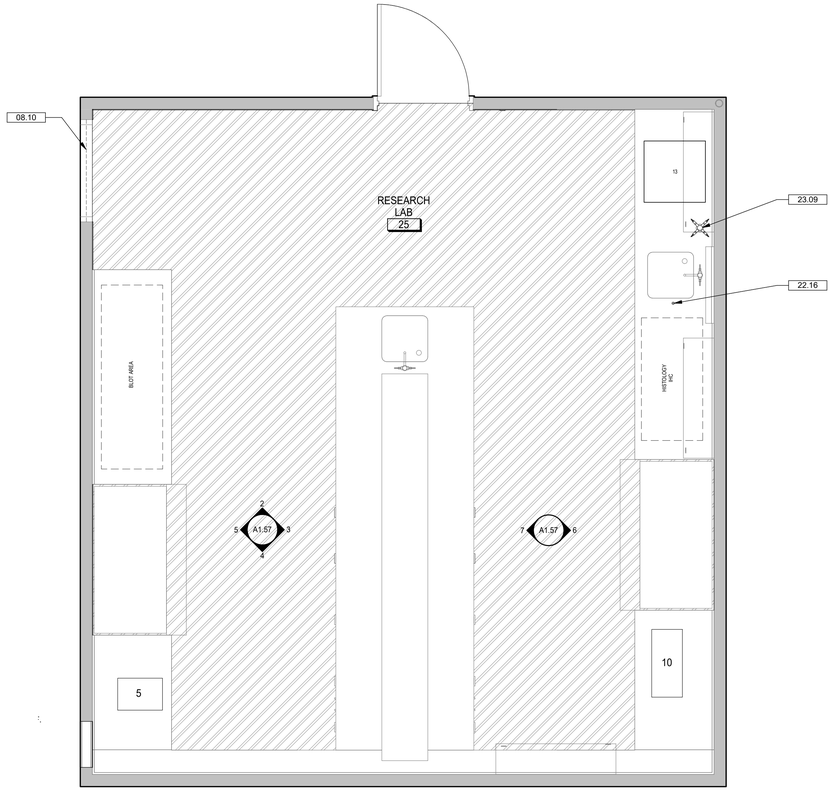
4 RESEARCH LAB 25
SCALE: 1/2" = 1'-0"



3 RESEARCH LAB 25
SCALE: 1/2" = 1'-0"



2 RESEARCH LAB 25
SCALE: 1/2" = 1'-0"



1 RESEARCH LAB 25
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

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.

RESEARCH LAB 25 EQUIPMENT LEGEND

5	SMALL CENTRIFUGE 15 1/2" x 12 1/2"
10	COMPUTER STATION 26 1/2" x 12"
13	WATER CARBOY 24" x 24"

KEYNOTE LEGEND

NO	KEYNOTE
08.10	REMOVE DOOR LEAVES ONLY, INCLUSIVE OF HINGES AND DISPOSE APPROPRIATELY; REPAIR FRAME TO RECEIVE NEW FINISHES.
11.02	EXISTING/NEW LAB EQUIPMENT N.I.C. REFER TO ENLARGED PLANS FOR PLAN LOCATION AND NAME.
12.16	EXISTING COUNTERTOP TO REMAIN; PROTECT IN PLACE DURING CONSTRUCTION. ADD BRACKET SUPPORTS WHERE NEEDED, TYP.
12.78	EXISTING/NEW KNEE SPACE 30"W.
12.79	EXISTING RELOCATED/NEW KNEE SPACE 47"W/48"W.
22.16	EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
23.09	NEW VACUUM REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.

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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

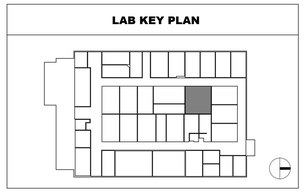
STAMP

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

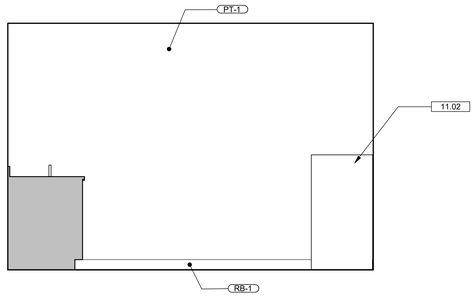
PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **ENLARGED FLOOR PLANS & EQUIPMENT - RESEARCH LAB 25**

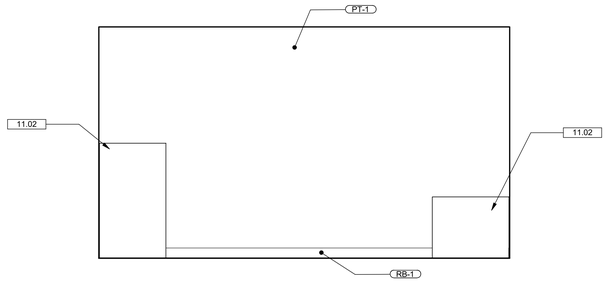
LAB KEY PLAN



DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A1.57**



5 CLEAN ROOM 46
SCALE: 1/2" = 1'-0"



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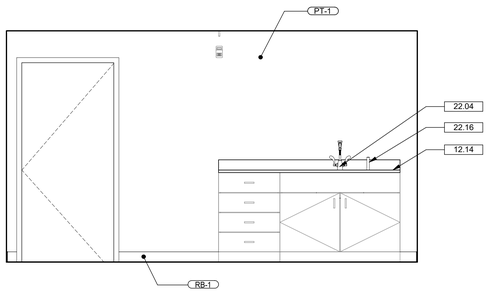
SCALE: 1/2" = 1'-0"



3 CLEAN ROOM 46
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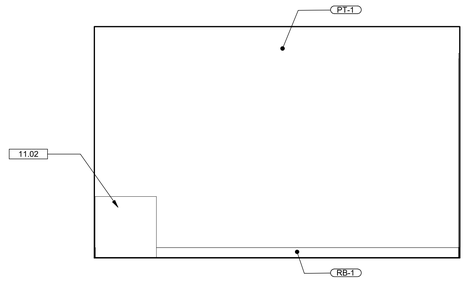
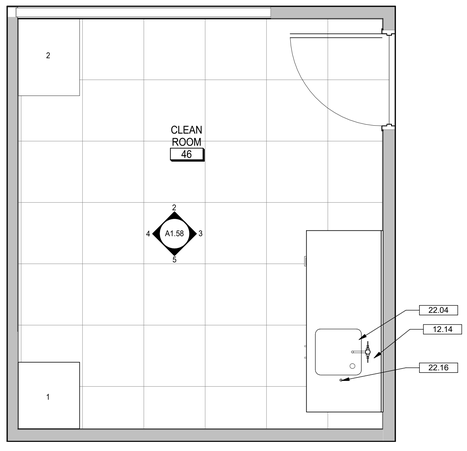


2 CLEAN ROOM 46
SCALE: 1/2" = 1'-0"



1 CLEAN ROOM 46
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

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.

DURCAN BASIS OF DESIGN MODELS
CLEAN ROOM 46

DURCON RESIN DROP-IN MODEL D52
24"LX18"WX11"D, OUTLET: X=3.5, Y=3.5, OUTLET IS CORNER, WEIGHT=77 LB.

CLEAN ROOM FLOOR PLAN
(EQUIPMENT BY USERS/UNLV - NIC)

1	ICE MACHINE
2	AUTOCLAVE

KEYNOTE LEGEND

NO	KEYNOTE
11.02	EXISTING/NEW LAB EQUIPMENT N.I.C. REFER TO ENLARGED PLANS FOR PLAN LOCATION AND NAME.
12.14	NEW CHEMICAL RESISTANT RESIN COUNTERTOP - COLOR TO MATCH EXISTING.
22.04	NEW SINK, REFER TO PLUMBING DRAWINGS, CONNECT AS REQUIRED PER PLUMBING DRAWINGS SEE SINK LEGEND DESCRIPTION ABOVE.
22.16	EYE WASH ACCESSORY SINK ROD REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.

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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

STAMP

WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE ENLARGED FLOOR PLANS & EQUIPMENT - CLEAN ROOM 46

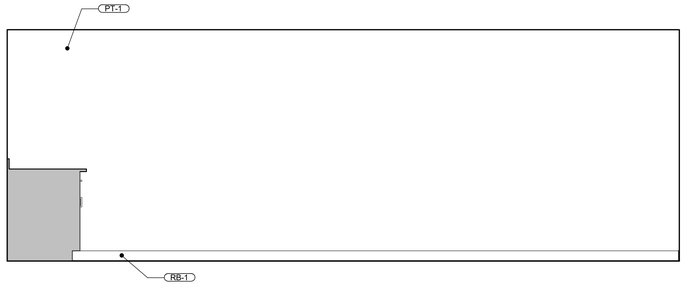
DATE 11/02/17

PROJECT NO. SCS-1640

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO.

A1.58



5 RESEARCH LAB 47
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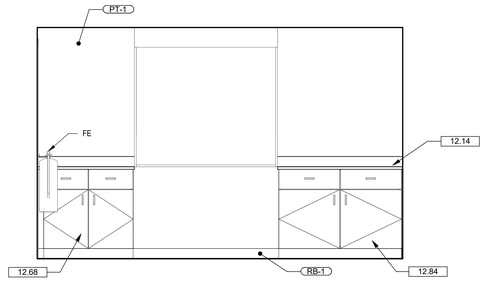

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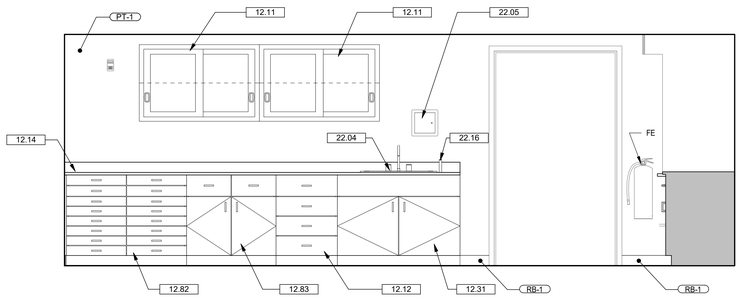

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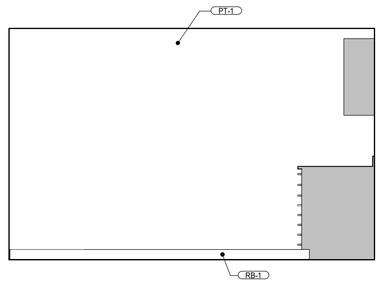
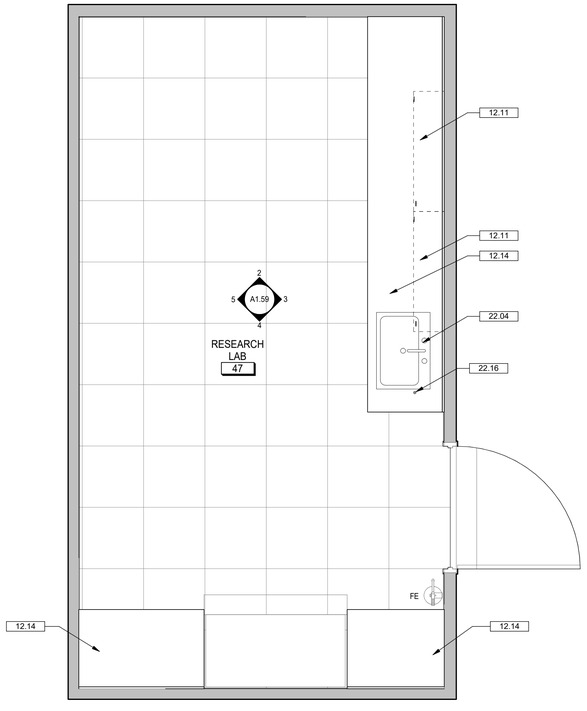


2 RESEARCH LAB 47
SCALE: 1/2" = 1'-0"



1 RESEARCH LAB 47
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

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.

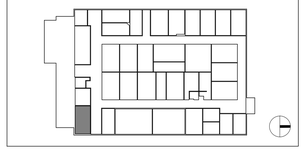
DURCAN BASIS OF DESIGN MODELS
RESEARCH LAB 47

DURCON RESIN DROP-IN MODEL D52
24"LX18"WX11"D, OUTLET: X=3.5, Y=3.5, OUTLET IS CORNER, WEIGHT=77 LB.

KEYNOTE LEGEND

NO	KEYNOTE
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" HSW 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" HSW 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.

LAB KEY PLAN



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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

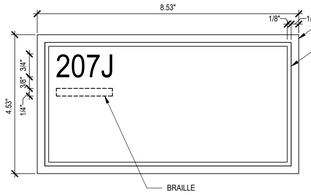
STAMP

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **ENLARGED FLOOR PLANS & EQUIPMENT - RESEARCH LAB 47**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A1.59**



TYPE STYLE: HELVETICA REG
TYPE COLOR: WHITE
TYPE SIZE: 3/4" H
TYPE PLACEMENT: TOP LEFT JUSTIFIED
REQUIRES BRAILLE: YES
INNER BORDER COLOR: LIGHT GRAY
OUTER BORDER COLOR: ARCH GRAY
CORNER STYLE: SQUARE

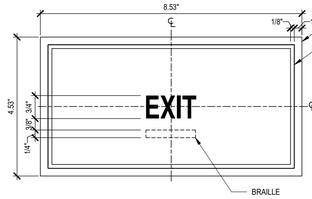
NOTE:
4.53" H X 8.53" W X 1/16" (2) COLOR SUBSURFACE PAINTED CLEAR BACKED PETG ADA LENS WITH RAISED TEXT AND BRAILLE. APPPLIED TO A MATCHING 1/8" BLACK GLOSS ACRYLIC BACKPLATE. HOLD A 4X8 CHANGEABLE INSERT. (INSERT NOT INCLUDED)

APPLY (4) FOAM SQUARES TO BACKS

AS REQUIRED BY UNLV, SIGNS SHALL BE ACQUIRED FROM KROY SIGN SYSTEMS

AS REQUIRED BY UNLV, SIGNS SHALL BE ACQUIRED FROM **KROY SIGN SYSTEMS**
7575 E. REDFIELD ROAD, STE. 113
SCOTTSDALE, AZ 85260
PHONE: (480) 619-6070
FAX: (480) 483-0235
EMAIL: ART@KROYSIGNSYSTEMS.COM

19 ROOM ID SIGNAGE
SCALE: 6" = 1'-0"



TYPE STYLE: HELVETICA REG
TYPE COLOR: WHITE
TYPE SIZE: 3/4" H
TYPE PLACEMENT: TOP LEFT JUSTIFIED
REQUIRES BRAILLE: YES
INNER BORDER COLOR: LIGHT GRAY
OUTER BORDER COLOR: ARCH GRAY
CORNER STYLE: SQUARE

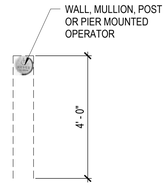
NOTE:
4.53" H X 8.53" W X 1/16" (2) COLOR SUBSURFACE PAINTED CLEAR BACKED PETG ADA LENS WITH RAISED TEXT AND BRAILLE. APPPLIED TO A MATCHING 1/8" BLACK GLOSS ACRYLIC BACKPLATE. HOLD A 4X8 CHANGEABLE INSERT. (INSERT NOT NCLUDED)

APPLY (4) FOAM SQUARES TO BACKS

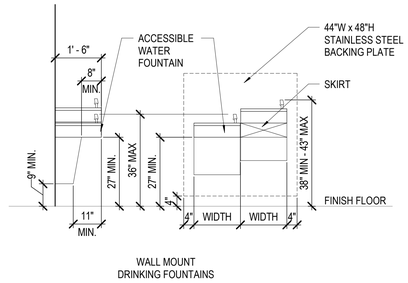
AS REQUIRED BY UNLV, SIGNS SHALL BE ACQUIRED FROM KROY SIGN SYSTEMS

AS REQUIRED BY UNLV, SIGNS SHALL BE ACQUIRED FROM **KROY SIGN SYSTEMS**
7575 E. REDFIELD ROAD, STE. 113
SCOTTSDALE, AZ 85260
PHONE: (480) 619-6070
FAX: (480) 483-0235
EMAIL: ART@KROYSIGNSYSTEMS.COM

18 EXIT SIGNAGE
SCALE: 6" = 1'-0"



17 ADA PUSH BUTTON
SCALE: 1/2" = 1'-0"



16 DRINKING FOUNTAIN
SCALE: 1/2" = 1'-0"

RESTROOM SHEET NOTES

1. ALL RESTROOM FIXTURES SHALL BE CLEANED AFTER REINSTALLATIONS AND REPAIRS.
2. PROTECT ALL FIXTURES AND OTHER PARTS OF CONSTRUCTION NOT INVOLVED IN THE RENOVATION OF SPACE UNTIL THEY ARE RETURNED BACK TO OWNER.
3. ANY ELEMENT SHOWN IN THE DOCUMENTS THAT IS NOT REFERENCED WITH A KEYNOTE IS AN EXISTING CONDITION.
4. TYPICAL ACCESSIBILITY DETAILS SHOWING DRINKING FOUNTAINS, TOILETS, GRAB BARS, SIGNAGE, AND DOOR ACTUATORS ARE ADDED FOR REFERENCE.

KEYNOTE LEGEND

NO	KEYNOTE
08.13	INSTALL NEW ACTUATOR TO OPERATE SWING OF DOOR PER/FOR ACCESSIBILITY REQUIREMENTS.
09.14	TOP OF NEW WALL TILE TO BE ALIGNED WITH THE TOP OF EXISTING WALL TILE, HEIGHT OF TILE TO BE VERIFIED IN FIELD.
09.14	PATCH AND REPAIR TO MATCH EXISTING FINISHES.
10.02	NEW COLLAPSIBLE BABY CHANGING STATION. INSTALL SUCH THAT PROTECTIONS EDGE IS AT 33" A.F.F. WHEN CHANGING STATION IS IN OPERATION.
10.13	ADD ADDITIONAL GRAB BAR AS REQUIRED/NEEDED - REFER TO ACCESSIBLE TOILET ELEVATIONS AND PLAN (11/A1.60, 12/A1.60, AND 13/A1.60) FOR INSTALLATION REFERENCE. PROVIDE SUFFICIENT/REQUIRED BACKING TO APPROPRIATELY INSTALL GRAB BAR.
10.14	REINSTALL SALVAGED SURFACE MOUNTED TOILET PAPER DISPENSER. REFER TO ACCESSIBLE DETAIL 13/A1.60 FOR HEIGHT.
10.17	ADD ADDITIONAL VERTICAL GRAB BAR AS REQUIRED/NEEDED - REFER TO ACCESSIBLE TOILET ELEVATIONS AND PLAN (11/A1.60, 12/A1.60, AND 13/A1.60) FOR INSTALLATION REFERENCE. PROVIDE SUFFICIENT/REQUIRED BACKING TO APPROPRIATELY INSTALL VERTICAL GRAB BAR.
10.19	NEW SURFACE MOUNTED SANITARY NAPKIN DISPENSER.
10.20	NEW SURFACE MOUNTED SEAT COVER DISPENSER.
12.80	REINSTALL EXISTING URINAL SCREEN.
12.81	INSTALL NEW URINAL SCREEN.
22.19	REMOVE URINAL AND SALVAGE, STORE AND PROTECT DURING CONSTRUCTION. REINSTALL AT LOCATIONS SHOWN PER CONSTRUCTION DOCUMENTS. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.

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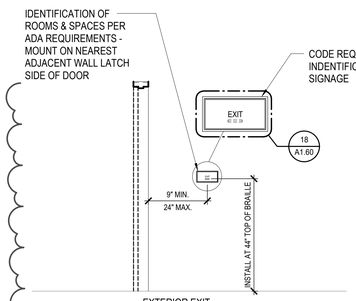
REVISIONS

NO.	DATE	DESCRIPTION
1		AHJ COMMENTS

CONSULTANT

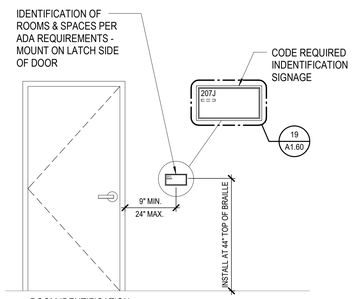
STAMP

WADE V. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA



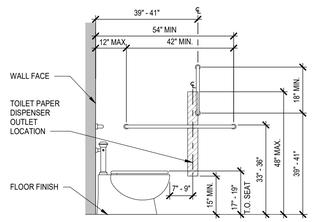
EXTERIOR EXIT

15 EXIST SIGN
SCALE: 1/2" = 1'-0"

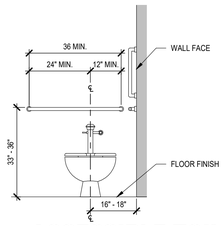


ROOM IDENTIFICATION

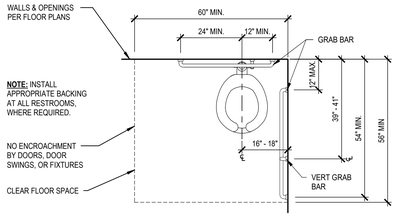
14 ROOM ID
SCALE: 1/2" = 1'-0"



13 ACCESSIBLE TOILET ELEVATION
SCALE: 1/2" = 1'-0"



12 ACCESSIBLE TOILET ELEVATION
SCALE: 1/2" = 1'-0"



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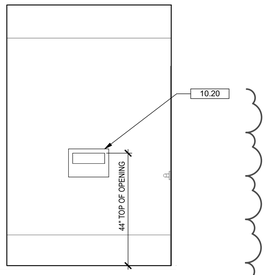
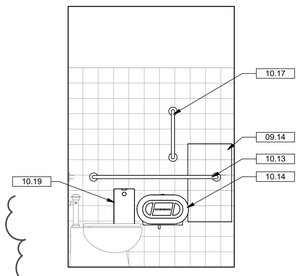


EXISTING CONDITIONS

10 ELEVATION - WOMEN
SCALE: 1/2" = 1'-0"



EXISTING CONDITIONS

9 ELEVATION - WOMEN
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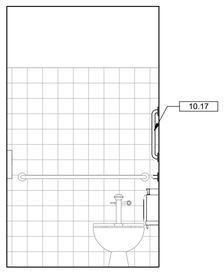
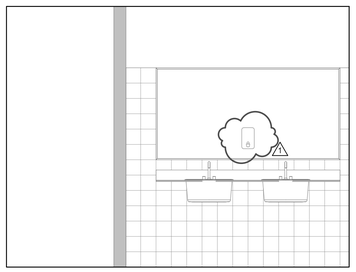


EXISTING CONDITIONS

8 ELEVATION - WOMEN
SCALE: 1/2" = 1'-0"



EXISTING CONDITIONS

7 ELEVATION - WOMEN
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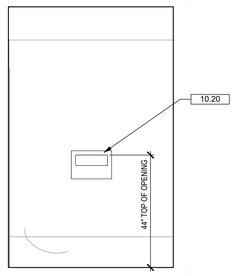

EXISTING CONDITIONS

6 ELEVATION - MEN
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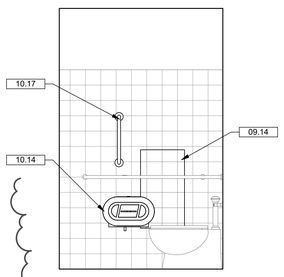
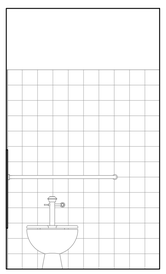


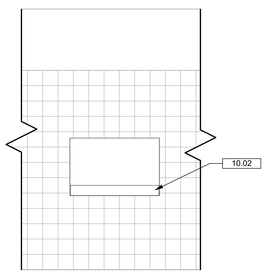
EXISTING CONDITIONS

5 ELEVATION - MEN
SCALE: 1/2" = 1'-0"



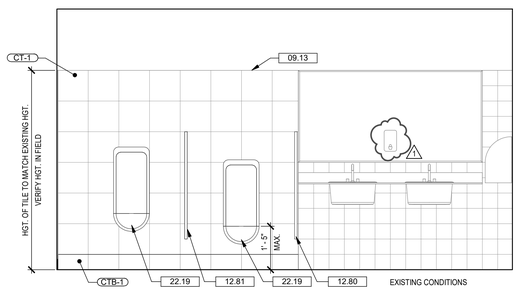
EXISTING CONDITIONS

4 ELEVATION - MEN
SCALE: 1/2" = 1'-0"



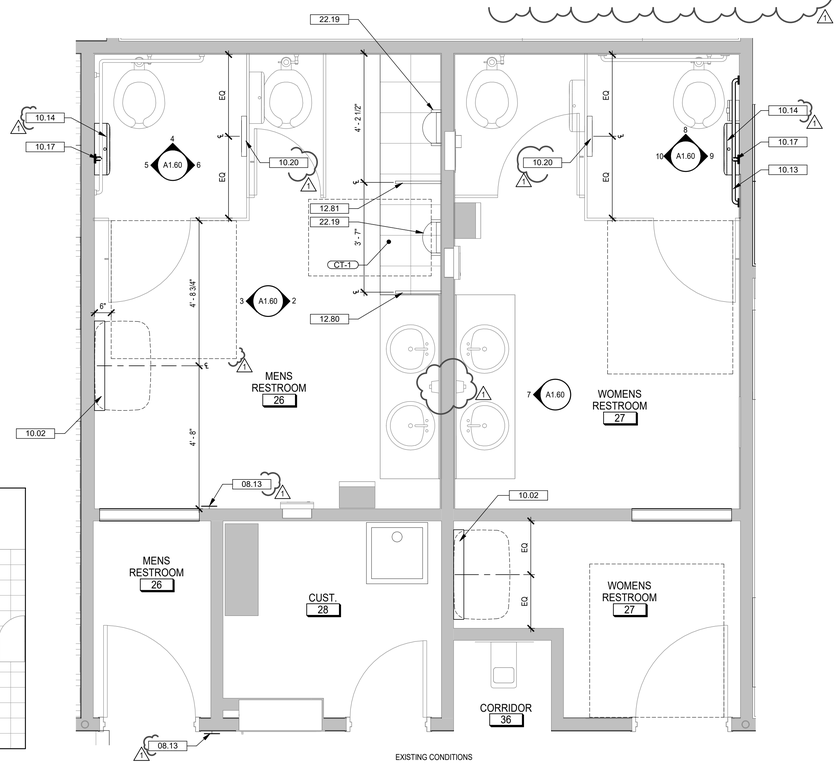
EXISTING CONDITIONS

3 ELEVATION - MEN
SCALE: 1/2" = 1'-0"



EXISTING CONDITIONS

2 ELEVATION - MEN
SCALE: 1/2" = 1'-0"



EXISTING CONDITIONS

1 RESTROOMS
SCALE: 1/2" = 1'-0"

1' 2' 4' 8'

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)
PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**
SHEET TITLE: **ENLARGED FLOOR PLAN & EQUIPMENT - RESTROOMS**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A1.60**

FINISH MATERIALS LIST

MARK	DESCRIPTION	MANUFACTURER	MODEL	SIZE	COLOR	COMMENTS
AP-1	ACOUSTIC WALL PANELS FABRIC	GUILFORD OF MAINE	FR701 2100		238 GREY MIX	REFER TO INTERIOR ELEVATIONS FOR LOCATIONS
BC-1	BLACKOUT CURTAIN	REFER TO SPECIFICATIONS			BLACK	
CPT-1	CARPET TILE	SHAW CONTRACT	DISPERSE TILE	24" x 24"	ROUTES 75500	ASHLAR INSTALLATION
CS-1	Mortar - Cementitious					HIDE
CT-1	CERAMIC/PORCELAIN TILE	ARIZONA TILE	BASALTINA	12" x 12"	MID GREY	
CTB-1	CERAMIC/PORCELAIN TILE	ARIZONA TILE	BASALTINA			
PGB	PAINTED GYPSUM BOARD					PAINT PT-1, U.N.O.
PT-1	PAINT	DUNN EDWARDS			DEW397 ANGEL FEATHER	
PT-2	PAINT	DUNN EDWARDS			DET618 INDUSTRIAL AGE	
PT-3	PAINT	DUNN EDWARDS			DEW395 HEIRLOOM SHADE	
RB-1	RUBBER BASE	JOHNSONITE	TRADITIONAL WALL BASE WITH TOE	4"H	48 GREY WG	
RT-1	RUBBER TILE	NORA	NORAPLAN SENTICA ART.2701	24" x 24"	6520 SNOW DAY	
SDT-1	STATIC DISSIPATIVE VINYL TILE	ROPPE	ESD STATIC DISSIPATIVE VINYL	24" x 24"	701 NEUTRON GRAY	
VCT-1	VINYL COMPOSITION TILE	JOHNSONITE	AZROCK COLLECTION TEXTILE VCT	12" x 24"	V-280 RAW SILK	
VCT-2	VINYL COMPOSITION TILE	TO MATCH EXISTING	TO MATCH EXISTING		TO MATCH EXISTING	COLOR, PATTERN AND SIZE TO MATCH EXISTING AS CLOSE AS POSSIBLE.

FINISH MATERIALS NOTES

1. HOLLOW METAL DOOR FRAMES SHALL BE PAINTED PT-2.
2. HOLLOW METAL DOORS SHALL BE PAINTED PT-3.
3. HOLLOW METAL INTERIOR WINDOW FRAMES SHALL BE PAINTED PT-2.
4. PAINTED GYPSUM BOARD, PORTLAND CEMENT PLASTER, CMU & PRECAST CONCRETE PANELS SHALL BE PAINTED PT-1, U.N.O.
5. INSTALL TRANSITION STRIPS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS TO MEET ACCESSIBILITY REQUIREMENTS AT ALL LOCATIONS WHERE NEW FLOORING WILL BE INSTALLED.

ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOOR	BASE	WALL 1 - NORTH		WALL 2 - EAST		WALL 3 - SOUTH		WALL 4 - WEST		CEILING		COMMENTS
				MATL 1	MATL 2	MATL 1	MATL 2	MATL 1	MATL 2	MATL 1	MATL 2	MATL 1	MATL 2	
Not Placed														
48	Room													
LEVEL 1														
1	LOBBY	_---	RB-1	PT-3		PT-3		PT-3		PT-3				
2	RESEARCH LAB	_---	_---	PT-1		PT-1		PT-1		PT-1		PT-1		
3	RESEARCH LAB	_---	_---	PT-1		PT-1		PT-1		PT-1		PT-1		
4	RESEARCH LAB	_---	_---	PT-1		PT-1		PT-1		PT-1		PT-1		
5	CORRIDOR	_---	RB-1	PT-3		_---		PT-3		_---				
6	CORRIDOR	_---	RB-1	PT-3		PT-3		PT-3		PT-3				
6	CORRIDOR	_---	RB-1	PT-3		PT-3		_---		PT-3				
7	OFFICE	CPT-1	RB-1	PT-1		PT-1		PT-2		PT-1		_---		
8	OFFICE	CPT-1	RB-1	PT-1		PT-1		PT-2		PT-1		PT-1		
9	OFFICE	VCT-1	RB-1	PT-1		PT-1		PT-2		PT-1		PT-1		
10	MICROSCOPE ROOM	VCT-1	RB-1	PT-2		PT-2		PT-2		PT-2		PT-1		
11	OFFICE	CPT-1	RB-1	PT-1		PT-1		PT-2		PT-1		PT-1		
12	GRAD STUDENTS	CPT-1	RB-1	PT-2		PT-1		PT-1		PT-1		PT-1		
13	CORRIDOR	_---	RB-1	PT-3		_---		PT-3		PT-3				
14	TECHS - POST-DOCS	CPT-1	RB-1	PT-1		PT-1		PT-2		PT-1		PT-1		
15	CONFERENCE ROOM	CPT-1	RB-1	PT-1		PT-1		PT-1		PT-1		PT-1		
16	LAB SUPPORT	_---	_---	_---		_---		_---		_---		_---		
17	CORRIDOR	_---	RB-1	PT-3		PT-3		PT-3		PT-3				
18	RESEARCH LAB	RT-1	RB-1	PT-1		PT-1		PT-1		PT-1		PT-1		
19	RESEARCH LAB	RT-1	RB-1	PT-1		PT-1		PT-1		PT-1		PT-1		
20	RESEARCH LAB	RT-1	RB-1	PT-1		PT-1		PT-1		PT-1		PT-1		
21	BIO BANK	RT-1	_---	PT-1		PT-1		PT-1		PT-1		PT-1		REFER TO INTERIOR ELEVATIONS FOR RUBBER BASE DIRECTIONS
22	HISTOLOGY	RT-1	RB-1	PT-1		PT-1		PT-1		PT-1		PT-1		
23	LAB SUPPORT	_---	_---	PT-3		PT-3		PT-3		PT-3		_---		
24	CORRIDOR	_---	RB-1	_---		PT-3		PT-3		PT-3		_---		
25	RESEARCH LAB	_---	_---	PT-1		PT-1		PT-1		PT-1		PT-1		REFER TO INTERIOR ELEVATIONS FOR RUBBER BASE DIRECTIONS
26	MENS RESTROOM	_---	_---	PT-3		PT-3		PT-3		PT-3		PT-1		
26	MENS RESTROOM	_---	_---	PT-3		PT-3		PT-3		PT-3		PT-1		
27	WOMENS RESTROOM	_---	_---	PT-3		PT-3		PT-3		PT-3		PT-1		
27	WOMENS RESTROOM	_---	_---	PT-3		PT-3		PT-3		PT-3		PT-1		
28	CUST.	_---	_---	PT-3		PT-3		PT-3		PT-3		PT-1		
29	IDF	SDT-1	RB-1	PT-1		PT-1		PT-1		PT-1		PT-1		
30	RESEARCH LAB	_---	RB-1	PT-1		PT-1		PT-1		PT-2		_---		
31	OFFICE	CPT-1	RB-1	PT-1		PT-1		PT-2		PT-1		PT-1		
32	WALK-IN FRIDGE	_---	_---	_---		_---		_---		_---		_---		
33	OFFICE	CPT-1	RB-1	PT-1		PT-1		PT-2		PT-1		PT-1		
34	COMPUTER TESTING	CPT-1	RB-1	PT-1		PT-1		PT-2		PT-1		PT-1		
35	RESEARCH LAB	_---	_---	PT-1		PT-1		PT-2		PT-1		PT-1		
36	CORRIDOR	_---	RB-1	_---		PT-3		PT-3		PT-3				
36	CORRIDOR	_---	RB-1	PT-3		PT-3		_---		PT-3				
37	ELECTRICAL ROOM	_---	_---	_---		_---		_---		_---				
38	MECHANICAL	_---	_---	PT-3		PT-3		PT-3		PT-3				
39	RESEARCH LAB	CPT-1	RB-1	PT-1		PT-1		PT-2		PT-1		PT-1		
40	RESEARCH LAB	_---	RB-1	PT-1		PT-2		PT-1		PT-1		_---		
41	RESEARCH LAB	VCT-1	RB-1	PT-1		PT-1		PT-2		PT-1		_---		
42	OFFICE	VCT-1	RB-1	PT-1		PT-1		PT-2		PT-1		_---		
43	STORAGE & MECHANICAL	_---	_---	_---		_---		_---		_---		_---		
44	MECHANICAL	_---	_---	PT-3		PT-3		PT-3		PT-3		_---		
45	FREEZER FARM	VCT-1	RB-1	PT-1		PT-1		PT-1		PT-1		PT-1		
46	CLEAN ROOM	RT-1	RB-1	PT-1		PT-1		PT-1		PT-1		PT-1		
47	RESEARCH LAB	RT-1	RB-1	PT-1		PT-1		PT-1		PT-1		PT-1		
48	MECHANICAL	_---	_---	_---		_---		_---		_---		_---		
49	STORAGE	_---	_---	_---		_---		_---		_---		_---		
50	FREEZER	_---	_---	_---		_---		_---		_---		_---		
51	REFRIGERATOR	_---	_---	_---		_---		_---		_---		_---		

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NO.	DATE	DESCRIPTION
1		AHJ COMMENTS

CONSULTANT

STAMP

WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE **ROOM FINISH SCHEDULE & FINISH MATERIALS LIST**

DATE 11/02/17

PROJECT NO. SCS-1640

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO.

A2.01

DOOR HARDWARE ADJUSTMENT

RM #	ROOM NAME	DR. NO.	HDWR.
1	LOBBY	1	1
2	RESEARCH LAB	2	9
3	RESEARCH LAB	3	9
4	RESEARCH LAB	4	9
6	CORRIDOR	6	13
7	OFFICE	7	8
8	OFFICE	8	8
9	OFFICE	9	8
10	MICROSCOPE ROOM	10	11
11	OFFICE	11	8
12	GRAD STUDENTS	12	12
13	CORRIDOR	13	5
14	TECHS - POST-DOCS	14	12
15	CONFERENCE ROOM	15	10
16	LAB SUPPORT	16	3
17	CORRIDOR	17-A	5
17	CORRIDOR	17-B	18
18	RESEARCH LAB	18	11
19	RESEARCH LAB	19	11
20	RESEARCH LAB	20	11
21	BIO BANK	21	9
23	LAB SUPPORT	23	2
24	CORRIDOR	24	2
25	RESEARCH LAB	25	19
26	MENS RESTROOM	26	16
27	WOMENS RESTROOM	27	17
28	CUST.	28	19
29	IDF	29-A	6
29	IDF	29-B	
30	RESEARCH LAB	30	11
31	OFFICE	31	23
33	OFFICE	33	8
34	COMPUTER TESTING	34	15
35	RESEARCH LAB	35-A	9
35	RESEARCH LAB	35-B	3
36	CORRIDOR	36	13
37	ELECTRICAL ROOM	37	21
38	MECHANICAL	38	20
39	RESEARCH LAB	39	14
40	RESEARCH LAB	40-A	11
40	RESEARCH LAB	40-B	4
41	RESEARCH LAB	41	11
42	OFFICE	42	11
43	STORAGE & MECHANICAL	43-A	25
43	STORAGE & MECHANICAL	43-B	25
44	MECHANICAL	44-A	26
44	MECHANICAL	44-B	24
45	FREEZER FARM	45	7
46	CLEAN ROOM	46	3
47	RESEARCH LAB	47	7
48	MECHANICAL	48	26
49	STORAGE	49	27

OVERALL NOTES AND COMMENTS

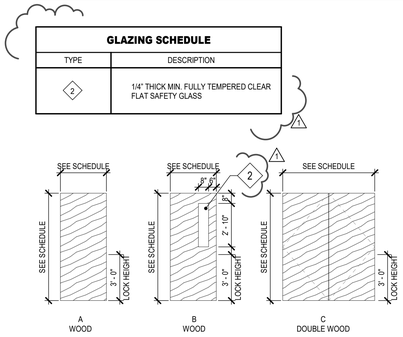
1. NO STOPS EXCEPT DOOR 7
2. ALL DOORS MISSING KICKERS IN/OUT
3. CONTRACTOR IS REQUIRED DURING THE REQUIRED SITE WALK PRIOR TO BIDDING, TO DETERMINE THE ENTAIL OF THE HARDWARE FOR APPROPRIATE OPERATION OF DOOR ASSEMBLIES.

DOOR SCHEDULE

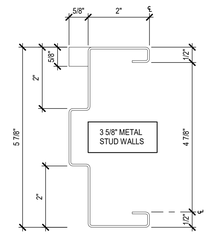
Level	DR. NO.	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR TYPE	FRAME TYPE	FRAME PROFILE	FRAME HEAD DTL	FRAME JAMB DTL	FRAME THRESHOLD DTL	HDWR.	LABEL	COMMENTS
LEVEL 1													
LEVEL 1	16	4' - 0"	7' - 0"	0' - 1 3/4"	A						3		ADD LEAF
LEVEL 1	21	3' - 0"	7' - 0"	0' - 1 3/4"	B	1	FP-1				9		REPAIR CHIPPED ASSEMBLY AS REQUIRED
LEVEL 1	37	6' - 0"	6' - 8"	0' - 2"	C	2					21		1 HOUR FIRE RATED ASSEMBLY
LEVEL 1	40-B	3' - 0"	7' - 0"	0' - 1 3/4"	B	1	FP-1				4		
LEVEL 1	46	3' - 0"	7' - 0"	0' - 1 3/4"	B	1	FP-1				3		

GLAZING SCHEDULE

TYPE	DESCRIPTION
2	1/4" THICK MIN. FULLY TEMPERED CLEAR FLAT SAFETY GLASS

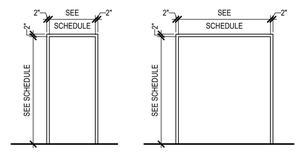


4 DOOR TYPES
SCALE: 1/4" = 1'-0"

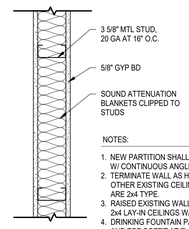


FP-1 HOLLOW METAL WITH H.M. STOP

3 DOOR FRAME PROFILES
SCALE: 6" = 1'-0"



2 DOOR FRAME TYPES
SCALE: 1/4" = 1'-0"



NOTES:

1. NEW PARTITION SHALL BE RESTRAINED AT THE TOP W/ CONTINUOUS ANGLE REFER TO STRUCTURAL DOCUMENTS.
2. TERMINATE WALL AS HIGH AS POSSIBLE ABOVE W/O CROSSING OTHER EXISTING CEILING ABOVE 6" ABOVE LAY-IN CEILINGS THAT ARE 2x4 TYPE.
3. RAISED EXISTING WALLS TO GO AS HIGH AS POSSIBLE ABOVE EXISTING 2x4 LAY-IN CEILINGS W/O CROSSING OTHER EXISTING CEILING ABOVE.
4. DRINKING FOUNTAIN PARTITIONS OFF CORRIDOR 6 TERMINATE WALLS AND TOP SOFFIT AT 7' - 0" A.F.F.

1 TYPE A
SCALE: 1 1/2" = 1'-0"

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REVISIONS

NO.	DATE	DESCRIPTION
1		AHJ COMMENTS

CONSULTANT

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WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

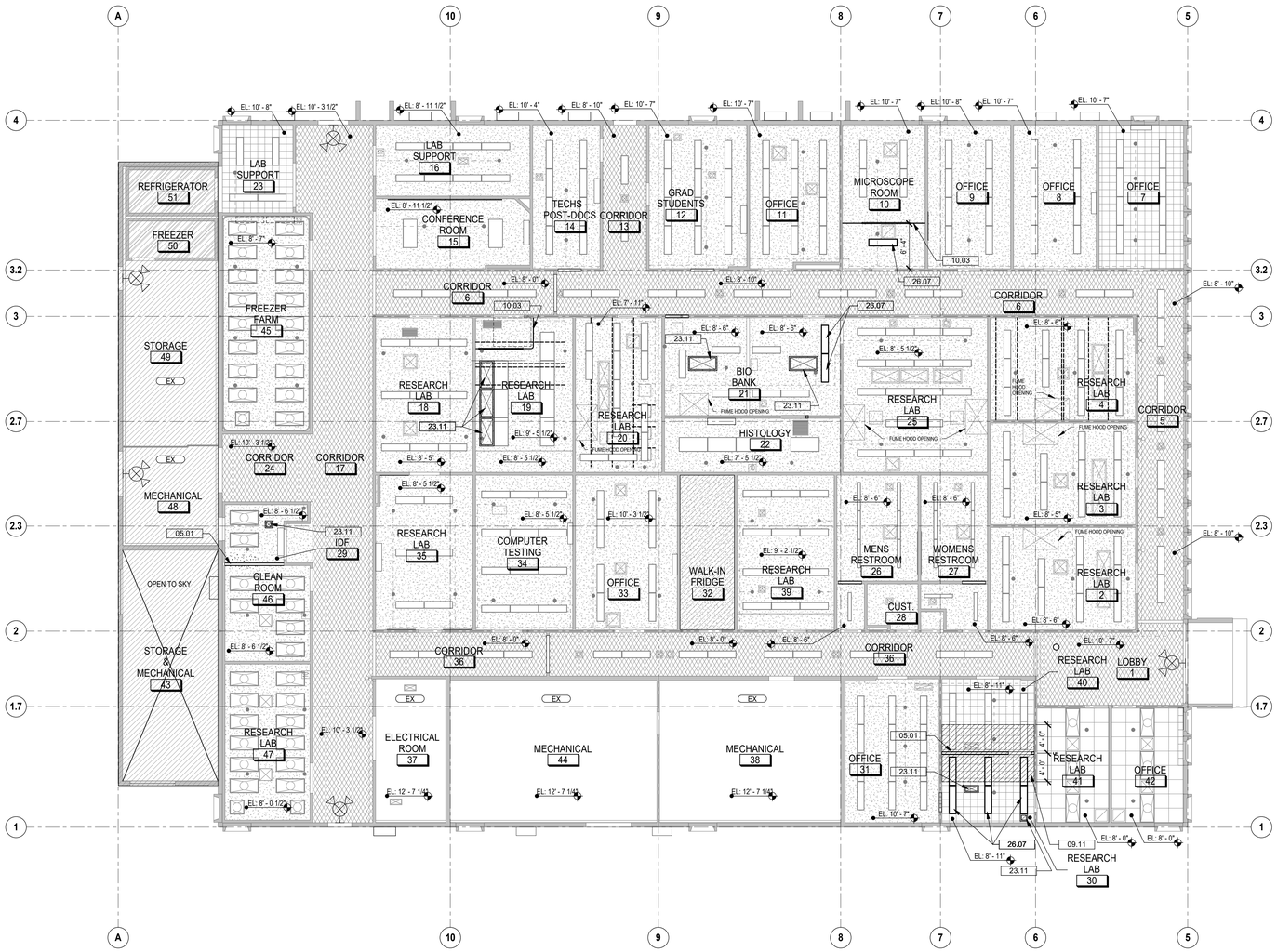
SHEET TITLE DOORS SCHEDULE AND PARTITION TYPES

DATE 11/02/17

PROJECT NO. SCS-1640

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO. A2.02



1 REFLECTED CEILING PLAN - LEVEL 1

SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

SHEET NOTES

1. ALL THE SPACES OF THIS RENOVATION PROJECT REQUIRE ADJUSTING, PATCHING, REPAIRING THE EXISTING SURFACES OF THE FLOOR, WALLS, CEILINGS, 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 PHASING DRAWING FOR ADDITIONAL INFORMATION.

LEGEND

N.I.C OF RENOVATION EXCEPT AS INDICATED

EXISTING ROUGH GYP BD. CEILING - PAINTED.

CEILING LEGEND

EXISTING PGB - GYPSUM BOARD CEILING SYSTEM

EXISTING 2x2 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM

EXISTING 1x1 SUSPENDED TILE CEILING SYSTEM SYSTEM

EXISTING FILTERED CEILING MOUNTED SUPPLY

EX — EXISTING EXPOSED STRUCTURE

EXISTING 1x4 SURFACE MOUNTED FLOURESCENT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS

EXISTING 2x4 SURFACE MOUNTED FLOURESCENT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS

EXISTING 2x4 RECESSED FLOURESCENT LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS

EXISTING 2'x2' RECESSED FLUORESCENT - LIGHT FIXTURE SEE ELECTRICAL DRAWINGS

EXISTING CEILING MOUNTED GRILLE

EXISTING RETURN AIR GRILLE - SEE MECHANICAL DRAWINGS

EXISTING SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS

EXISTING EXHAUST GRILLE

EXISTING FUMEHOOD

EXISTING CEILING MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS

EXISTING WALL MOUNTED EXIT SIGN - SEE ELECTRICAL DRAWINGS

EXISTING SPRINKLER HEAD

EXISTING SPRINKLER PIPING

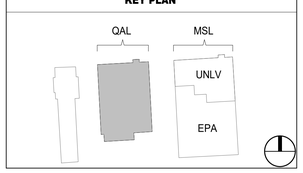
NEW RETURN AIR GRILLE - SEE MECHANICAL DRAWINGS

NEW SUPPLY AIR DIFFUSER - SEE MECHANICAL DRAWINGS

KEYNOTE LEGEND

NO	KEYNOTE
05.01	NEW WALLS TO BE RAISED ABOVE EXISTING 2'X4' LAY-IN CEILING TERMINATING AT UNDERSIDE OF ORIGINAL CEILING WHERE POSSIBLE OR A MIN. OF 6" ABOVE EXISTING 2'X4' LAY-IN. BRACE AS REQUIRED PER STRUCTURAL DRAWINGS. SEAL CONSTRUCTION AT PERIMETERS, BEHIND CONTROL JOINTS AND AT OPENINGS AND PENETRATIONS WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT ON BOTH SIDES OF PARTITION. COMPLY WITH ASTM C919 FOR LOCATING EDGE TRIM AND CLOSING OFF SOUND-FLANKING PATHS AROUND AND THROUGH ASSEMBLIES.
09.11	SOUND ATTENUATION BLANKETS ASTM 665 TYPE 1 PRODUCED BY COMBINING THERMOSETTING RESINS WITH MINERAL FIBERS MANUFACTURED FROM GLASS, SLAG WOOL OR ROCK WOOL.
10.03	CURTAIN AND CURTAIN TRACK SYSTEM, REFER TO FINISHES FOR ADDITIONAL INFORMATION IN ELEVATIONS. (TRANSPARENT FOR CLARITY ON INTERIOR ELEVATIONS).
23.11	NEW DIFFUSER, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26.07	RE-INSTALL EXISTING LIGHT FIXTURE (SEE DEMOLITION FOR ADDITIONAL INFORMATION).

KEY PLAN



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NO.	DATE	DESCRIPTION

CONSULTANT

STAMP

WADE V. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **REFLECTED CEILING PLAN**

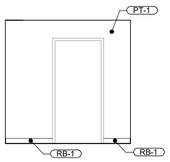
DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A3.01**

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. 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

KEYNOTE LEGEND

NO	KEYNOTE
05.01	NEW WALLS TO BE RAISED ABOVE EXISTING 2'X4' LAY-IN CEILING TERMINATING AT UNDERSIDE OF ORIGINAL CEILING WHERE POSSIBLE OR A MIN. OF 6" ABOVE EXISTING 2'X4' LAY-IN. BRACE AS REQUIRED PER STRUCTURAL DRAWINGS. SEAL CONSTRUCTION AT PERIMETERS, BEHIND CONTROL JOINTS AND AT OPENINGS AND PENETRATIONS WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT ON BOTH SIDES OF PARTITION. COMPLY WITH ASTM C919 FOR LOCATING EDGE TRIM AND CLOSING OFF SOUND-FLANKING PATHS AROUND AND THROUGH ASSEMBLIES.
09.02	SPACE FOR MARKER BOARD
22.05	EXISTING ACCESS DOOR
23.06	INTERIOR HVAC UNIT INSTALLED BETWEEN 7' AND 9' A.F.F. (ACCOMMODATE TO ADJACENT EXISTING CONDITIONS) MOUNTING SUPPORT AND INSTALLATION AS RECOMMENDED PER MANUFACTURER INSTALL FOLLOWING INSTRUCTIONS AS PROVIDED PER ADDITIONAL INFORMATION GIVEN UNDER SPEC SECTION 01 31 32 FOR BASES OF DESIGN LG SPLIT UNITS AND DETAIL 7/S2.01. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.



20 IDF 29
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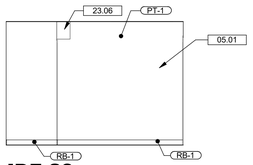

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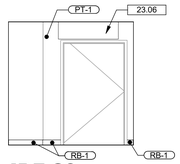

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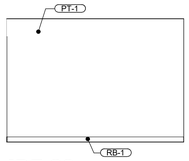

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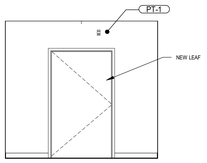

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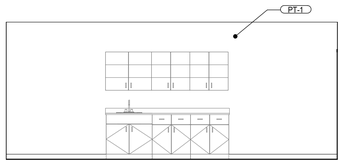

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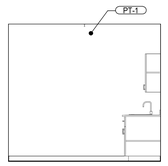

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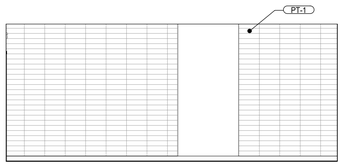

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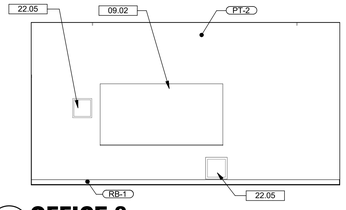

12 OFFICE 8
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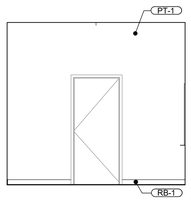

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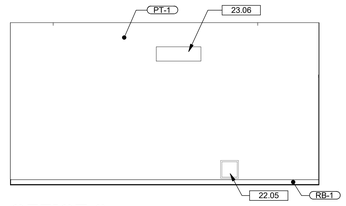

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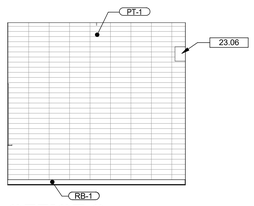

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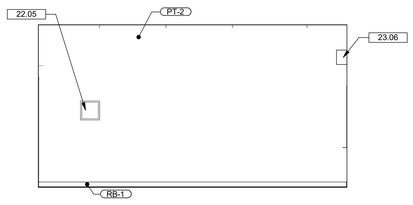

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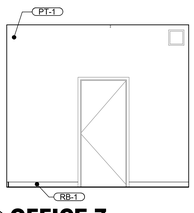

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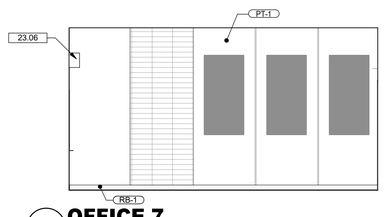

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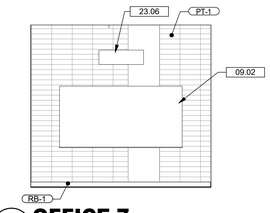

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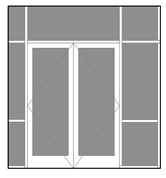

4 LOBBY
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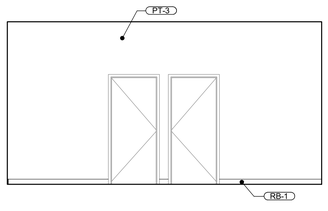

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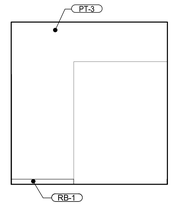

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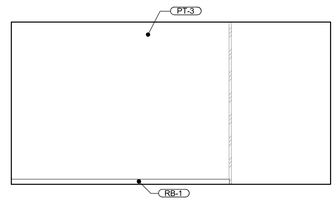

1 LOBBY
SCALE: 1/4" = 1'-0"

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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

STAMP

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE **INTERIOR ELEVATIONS**

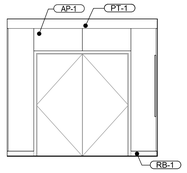
DATE 11/02/17

PROJECT NO. SCS-1640

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO.

A5.01



24 CONFERENCE ROOM 15
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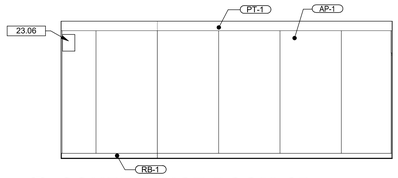

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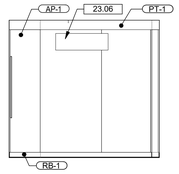

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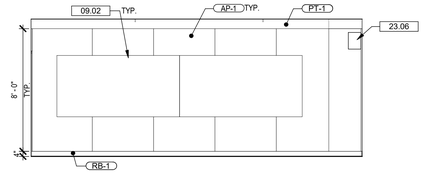

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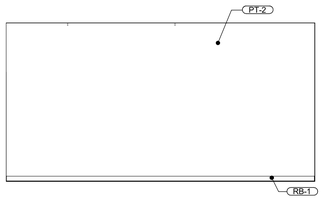

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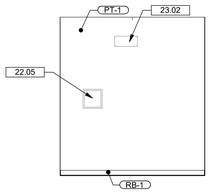

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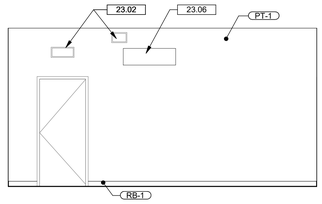

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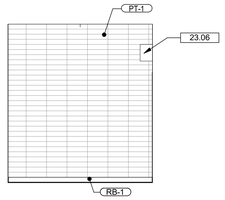

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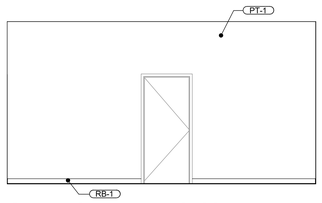

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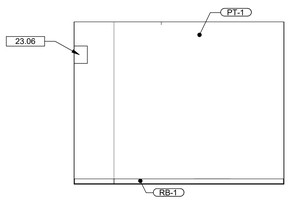

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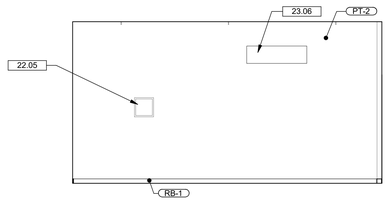

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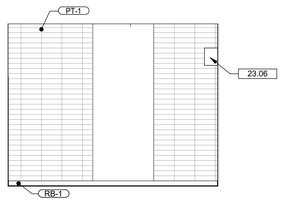

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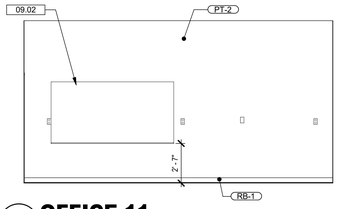

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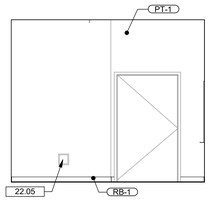

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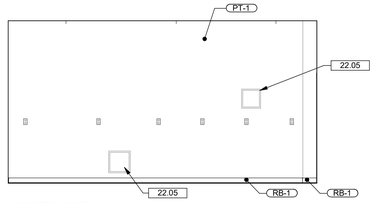

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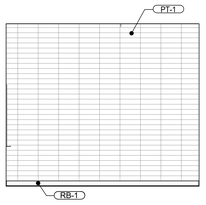

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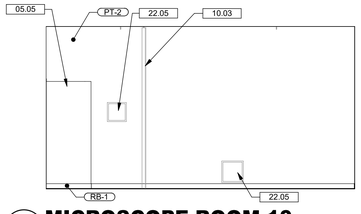

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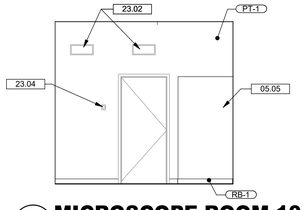

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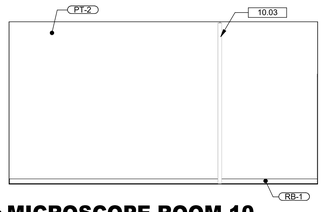

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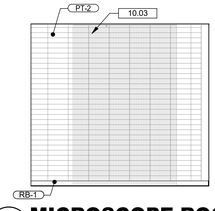

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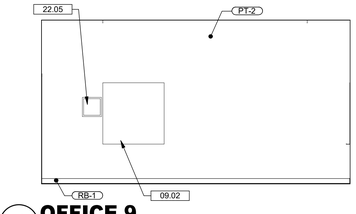

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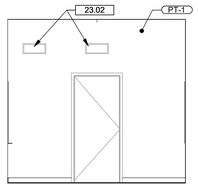

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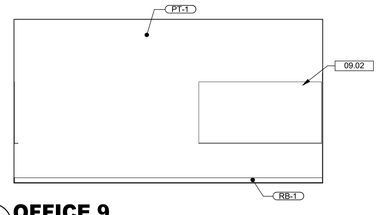

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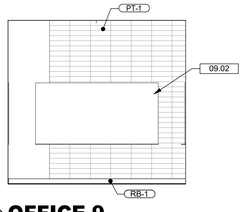

1 OFFICE 9
SCALE: 1/4" = 1'-0"

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. 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

KEYNOTE LEGEND

NO	KEYNOTE
05.05	NEW PARTITIONS OFF CORRIDOR 6, TERMINATE WALLS AND TOP SOFFIT AT 7'-0" A.F.F.
09.02	SPACE FOR MARKER BOARD
10.03	CURTAIN AND CURTAIN TRACK SYSTEM, REFER TO FINISHES FOR ADDITIONAL INFORMATION IN ELEVATIONS. (TRANSPARENT FOR CLARITY ON INTERIOR ELEVATIONS).
22.05	EXISTING ACCESS DOOR
23.02	EXISTING HVAC GRILLE/DIFFUSER - REPLACE AS SHOWN FOR MECHANICAL DRAWINGS
23.04	EXISTING THERMOSTAT - REPLACE WHEN REQUIRED PER MECHANICAL DRAWINGS.
23.06	INTERIOR HVAC UNIT INSTALLED BETWEEN 7' AND 9' A.F.F. (ACCOMMODATE TO ADJACENT EXISTING CONDITIONS) MOUNTING SUPPORT AND INSTALLATION AS RECOMMENDED PER MANUFACTURER INSTALL FOLLOWING INSTRUCTIONS AS PROVIDED PER ADDITIONAL INFORMATION GIVEN UNDER SPEC SECTION 01 31 32 FOR BASES OF DESIGN LG SPLIT UNITS AND DETAIL 7/S2.01. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

STAMP

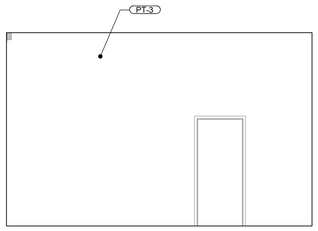
WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **INTERIOR ELEVATIONS**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A5.02**



24 MECHANICAL 38
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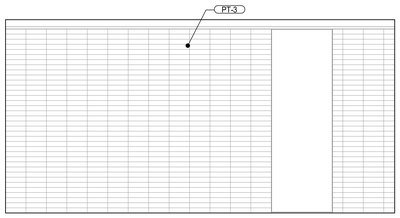

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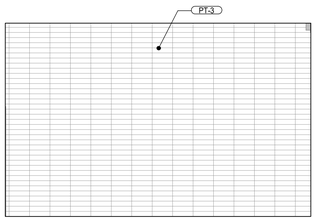

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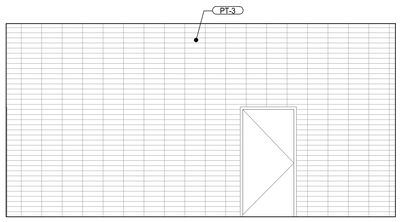

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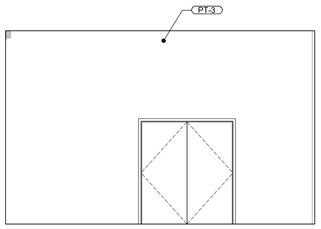

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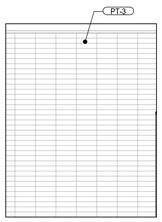

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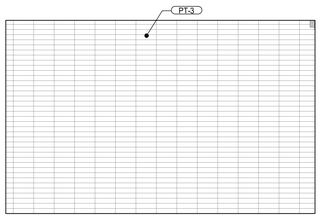

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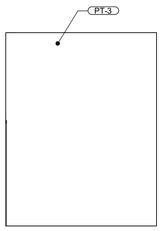

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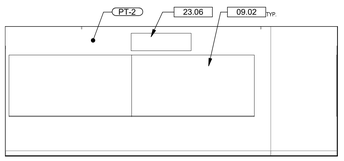

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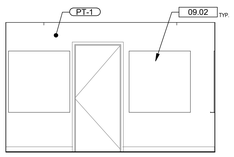

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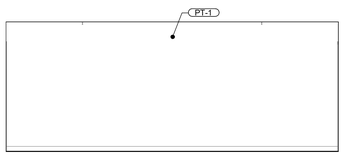

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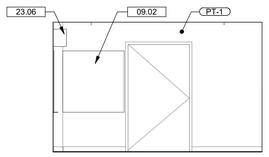

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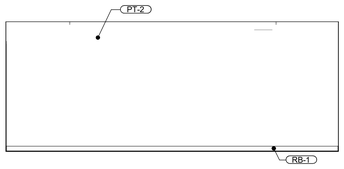

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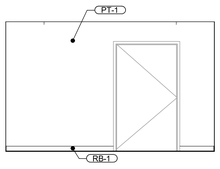

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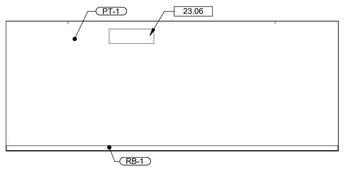

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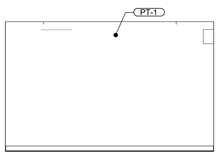

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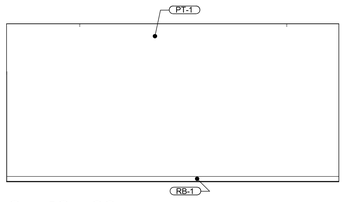

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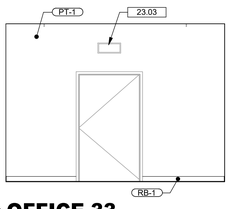

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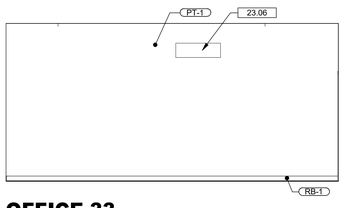

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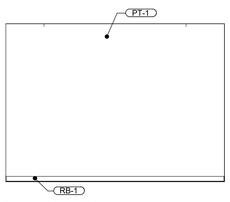

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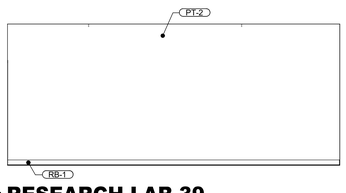

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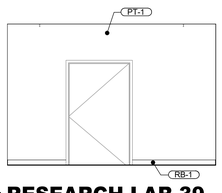

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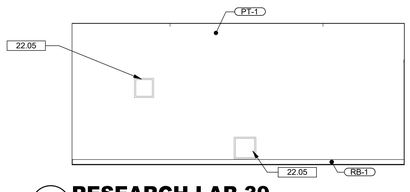

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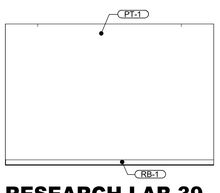


1 RESEARCH LAB 39
SCALE: 1/4" = 1'-0"

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. 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

KEYNOTE LEGEND

NO	KEYNOTE
09.02	SPACE FOR MARKER BOARD
22.05	EXISTING ACCESS DOOR
23.03	EXISTING HVAC DUCT TO REMAIN
23.06	INTERIOR HVAC UNIT INSTALLED BETWEEN 7' AND 9' A.F.F. (ACCOMMODATE TO ADJACENT EXISTING CONDITIONS) MOUNTING SUPPORT AND INSTALLATION AS RECOMMENDED PER MANUFACTURER INSTALL FOLLOWING INSTRUCTIONS AS PROVIDED PER ADDITIONAL INFORMATION GIVEN UNDER SPEC SECTION 01 31 32 FOR BASES OF DESIGN LG SPLIT UNITS AND DETAIL 7/SZ.01. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

SC STUDIO
Simpson Coulter | STUDIO
151 E. Warm Springs Rd.
Las Vegas, NV 89119
702-435-1150
www.simpsoncoulter.com

REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

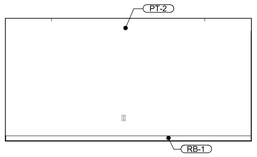
STAMP

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE INTERIOR ELEVATIONS

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	A5.03



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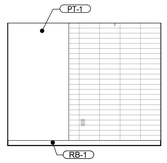

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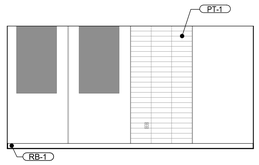

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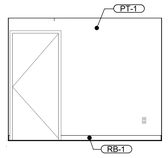

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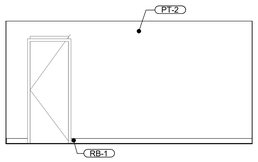

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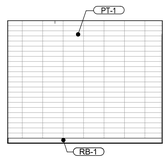

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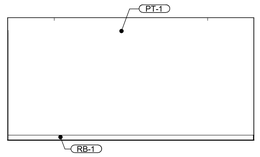

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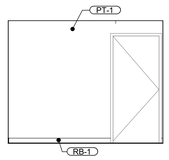

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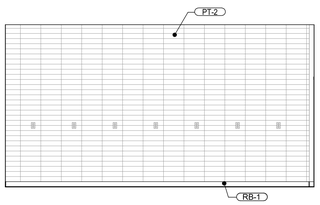

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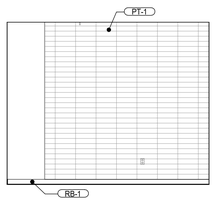

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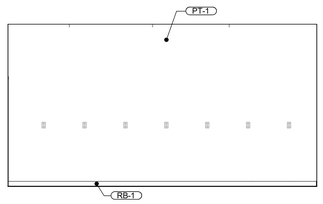

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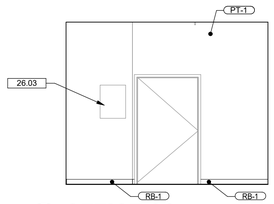

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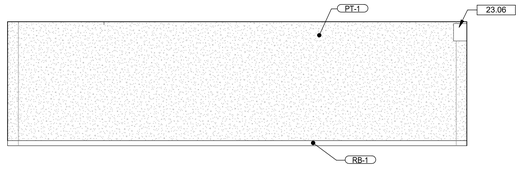

14 FREEZER FARM 45
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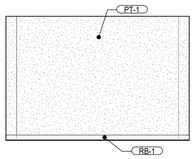

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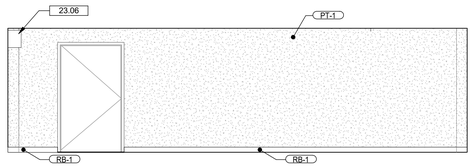

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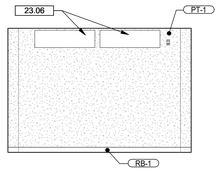

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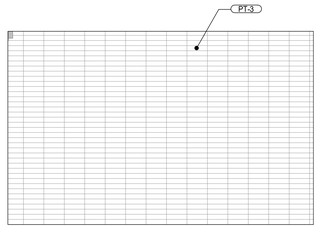

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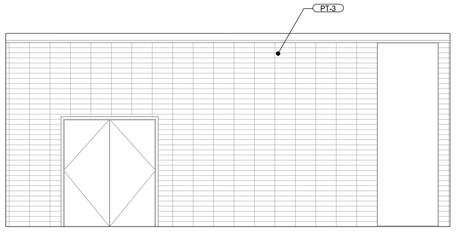

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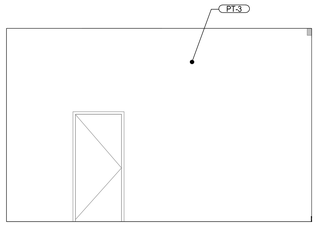

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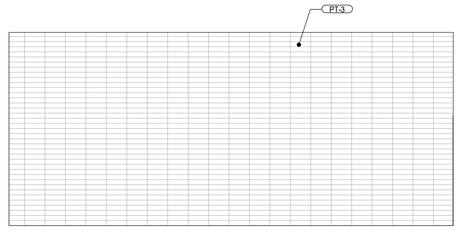

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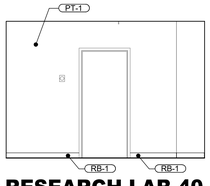

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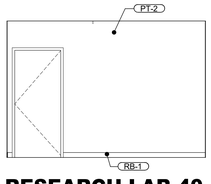

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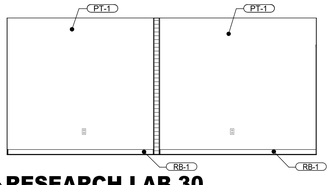

4 RESEARCH LAB 30
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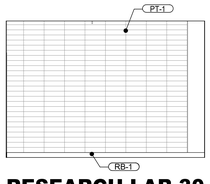

3 RESEARCH LAB 30
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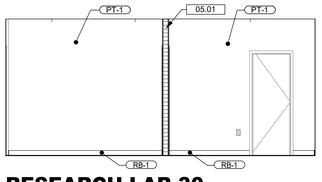

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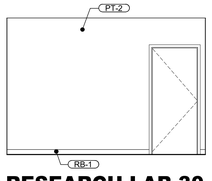

1 RESEARCH LAB 30
SCALE: 1/4" = 1'-0"

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. 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

KEYNOTE LEGEND

NO	KEYNOTE
05.01	NEW WALLS TO BE RAISED ABOVE EXISTING 2'X4' LAY-IN CEILING TERMINATING AT UNDERSIDE OF ORIGINAL CEILING WHERE POSSIBLE OR A MIN. OF 6" ABOVE EXISTING 2'X4' LAY-IN. BRACE AS REQUIRED PER STRUCTURAL DRAWINGS. SEAL CONSTRUCTION AT PERIMETERS, BEHIND CONTROL JOINTS AND AT OPENINGS AND PENETRATIONS WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT ON BOTH SIDES OF PARTITION. COMPLY WITH ASTM C919 FOR LOCATING EDGE TRIM AND CLOSING OFF SOUND-FLANKING PATHS AROUND AND THROUGH ASSEMBLIES.
23.06	INTERIOR HVAC UNIT INSTALLED BETWEEN 7" AND 9' A.F.F. (ACCOMMODATE TO ADJACENT EXISTING CONDITIONS) MOUNTING SUPPORT AND INSTALLATION AS RECOMMENDED PER MANUFACTURER INSTALL FOLLOWING INSTRUCTIONS AS PROVIDED PER ADDITIONAL INFORMATION GIVEN UNDER SPEC SECTION 01 31 32 FOR BASES OF DESIGN LG SPLIT UNITS AND DETAIL 7/S2.01. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
26.03	EXISTING ELECTRICAL PANEL. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

STAMP

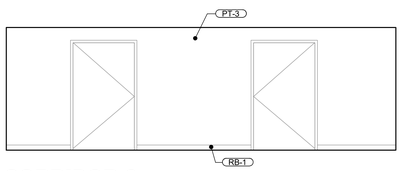
WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

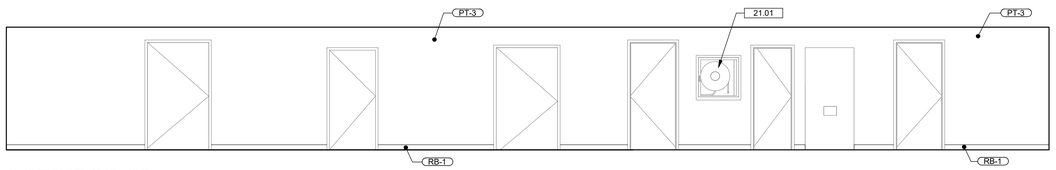
PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **INTERIOR ELEVATIONS**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A5.04**



19 CORRIDOR 6
SCALE: 1/4" = 1'-0"



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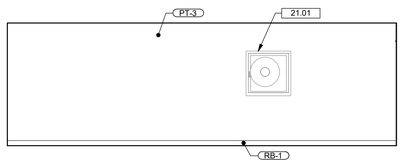

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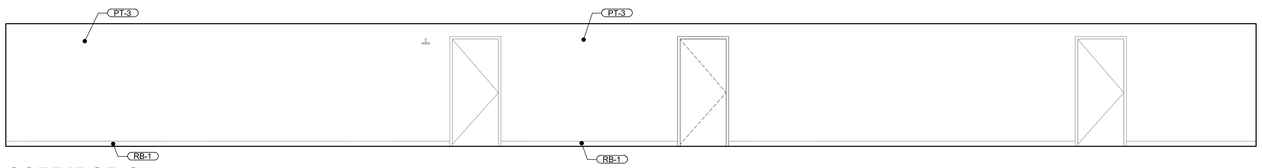

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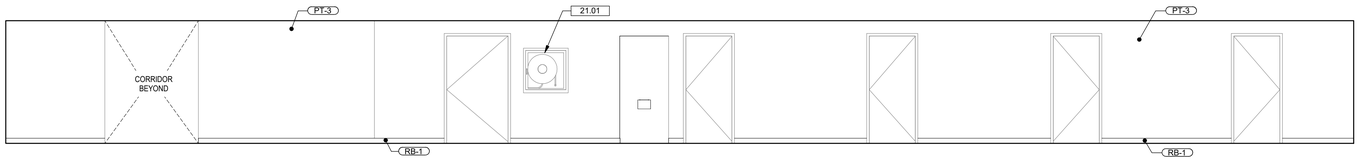

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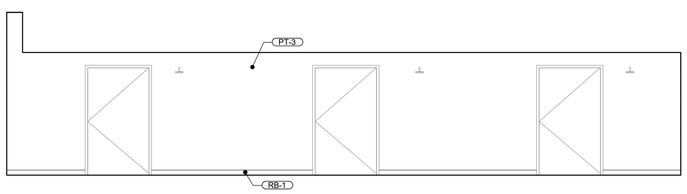

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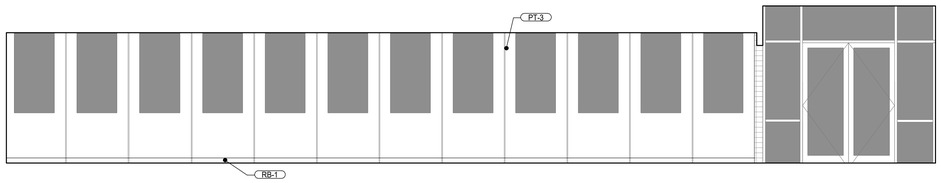
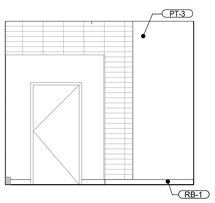
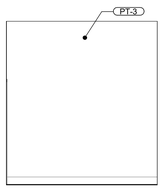


13 CORRIDOR 5
SCALE: 1/4" = 1'-0"



4 LAB SUPPORT 23
SCALE: 1/4" = 1'-0"



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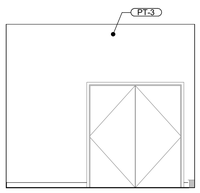

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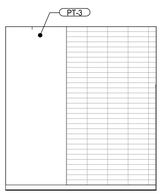

1 LAB SUPPORT 23
SCALE: 1/4" = 1'-0"

SHEET NOTES

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    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

KEYNOTE LEGEND

NO	KEYNOTE
21.01	EXISTING FIRE HOSE CABINET, TO REMAIN PROTECT IN PLACE DURING CONSTRUCTION.

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702-435-1150
www.simpsoncoulter.com

REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

STAMP

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE INTERIOR ELEVATIONS

DATE 11/02/17

PROJECT NO. SCS-1640

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO.

A5.05

SHEET NOTES

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.

UNLV QAL RENOVATION EXISTING CASEWORK RELOCATION

DISMOUNTED BASE CABINETS

ROOM SPACE	35" W x 28.5" D X 36" H SW 2 DOOR & 2 TOP DWRS	47" W x 28.5" D X 36" H SW 2 DOOR & 2 TOP DWRS	30" W x 28.5" D X 36" H SW 2 DOOR	47" W x 28.5" D X 36" H SW 2 DOOR	35" W x 28.5" D X 36" H SW 1 DOOR & 4 DWRS	47" W x 28.5" D X 36" H SW 1 DOOR/1 TOP DWR & 4 DWRS	35" W x 28.5" D X 36" H SW 1 DOOR/2 TOP DWR & 4 DWRS	47" W x 28.5" D X 36" H SW 1 DOOR/2 TOP DWR & 4 DWRS	47" W x 28.5" D X 36" H SW 2 DOOR & 4 TOP DWRS	47" W x 28.5" D X 36" H SW 1 DOOR/2 TOP DWRS & 4 DWRS	47" W x 28.5" D X 36" H 16 DWRS	35" W x 28.5" D X 36" H 10 DWRS	47" W x 28.5" D X 36" H 10 DWRS	48" W x 28.5" D X 36" H 8 DWRS	35" W x 28.5" D X 36" H7 DWRS	47" W x 28.5" D X 36" H7 DWRS	24" W x 28.5" D X 36" H5 DWRS	35" W x 28.5" D X 36" H5 DWRS	47" W x 28.5" D X 36" H5 DWRS AND PANEL FOR EYEWASH	17" W x 28.5" D X 36" H SW 1 DOOR WOOD	35" W x 28.5" D X 36" H KNEE SPACE	47" W x 28.5" D X 36" H KNEE SPACE	CABINET FILLER	30" W x 28.5" D X 36" H 6 DWRS	42" W x 28.5" D X 36" H 6 DWRS	11" W x 28.5" D X 36"COVER PANEL	30" W x 8.5" D X 36"COVER PANEL	38" W x 8.5" D X 36"COVER PANEL	47" W x 28.5" D X 36" H SW 2 DOOR & PANEL-SINK	17" W x 39" D X 36" H CORNER-SINK
RESEARCH LAB 2	1	2																												
RESEARCH LAB 3	1	2								2					1															
RESEARCH LAB 4		1																		1	1		1							
RESEARCH LAB 18			2	2		2																1	1	2	2				1	
RESEARCH LAB 19		1				1		2	1		1					1														
RESEARCH LAB 20	1	1								1	1		2				1	1								1	3			
BIO BANK 21		1																												
CLEANING 46	1													1																
RESEARCH LAB 47	1	1			1		1					1							1											1
TOTALS	5	9	2	2	1	3	1	2	1	3	2	1	2	1	1	1	1	1	1	1	1	1	1	2	2	2	1	3	3	1

DISMOUNTED UPPER CABINETS

ROOM SPACE	35" W x 12" D x 30" H METAL GLASS-SLIDER (2 DOORS)	47" W x 12" D x 30" H METAL GLASS-SLIDER (2 DOORS)	35" W x 12" D x 30" H METAL SLIDER (2 DOORS)	47" W x 12" D x 30" H METAL SLIDER (2 DOORS)	35" W x 12" D x 30" H GLASS-SLIDER (2 DOORS)	35" W x 12" D x 30" H METAL 2 DOOR SWINGING	30" W x 13 1/2" D x 25 1/2" H METAL 2 DOOR SWINGING
RESEARCH LAB 2	1	1					
RESEARCH LAB 3	1	6					
RESEARCH LAB 4		4					
RESEARCH LAB 18			2	2			
RESEARCH LAB 19		2					
RESEARCH LAB 20		3					
BIO BANK 21				1			
CLEANING 46					1		1
RESEARCH LAB 47		1				2	
TOTALS	2	17	2	3	1	2	1

RELOCATION OF DISMOUNTED BASE CABINETS

ROOM SPACE	35" W x 28.5" D X 36" H SW 2 DOOR & 2 TOP DWRS	47" W x 28.5" D X 36" H SW 2 DOOR & 2 TOP DWRS	30" W x 28.5" D X 36" H SW 2 DOOR	47" W x 28.5" D X 36" H SW 2 DOOR	35" W x 28.5" D X 36" H SW 1 DOOR & 4 DWRS	47" W x 28.5" D X 36" H SW 1 DOOR/1 TOP DWR & 4 DWRS	35" W x 28.5" D X 36" H SW 1 DOOR/2 TOP DWR & 4 DWRS	47" W x 28.5" D X 36" H SW 1 DOOR/2 TOP DWR & 4 DWRS	47" W x 28.5" D X 36" H SW 2 DOOR & 4 TOP DWRS	47" W x 28.5" D X 36" H SW 1 DOOR/2 TOP DWRS & 4 DWRS	47" W x 28.5" D X 36" H 16 DWRS	35" W x 28.5" D X 36" H 10 DWRS	47" W x 28.5" D X 36" H 10 DWRS	48" W x 28.5" D X 36" H 8 DWRS	35" W x 28.5" D X 36" H7 DWRS	47" W x 28.5" D X 36" H7 DWRS	24" W x 28.5" D X 36" H5 DWRS	35" W x 28.5" D X 36" H5 DWRS	47" W x 28.5" D X 36" H5 DWRS AND PANEL FOR EYEWASH	17" W x 28.5" D X 36" H SW 1 DOOR WOOD	35" W x 28.5" D X 36" H KNEE SPACE	47" W x 28.5" D X 36" H KNEE SPACE	CABINET FILLER	30" W x 28.5" D X 36" H 6 DWRS	42" W x 28.5" D X 36" H 6 DWRS	11" W x 28.5" D X 36"COVER PANEL	30" W x 8.5" D X 36"COVER PANEL	38" W x 8.5" D X 36"COVER PANEL	47" W x 28.5" D X 36" H SW 2 DOOR & PANEL-SINK	17" W x 39" D X 36" H CORNER-SINK
RESEARCH LAB 2																														
RESEARCH LAB 3															1		1				1	1		1						
RESEARCH LAB 18																														
RESEARCH LAB 20	1																													
BIO BANK 21																														
			2																											
HISTOLOGY 22																														
RESEARCH LAB 47	1	1																												
	1	1									1																			

RELOCATION OF DISMOUNTED UPPER CABINETS

ROOM SPACE	35" W x 12" D x 30" H METAL GLASS-SLIDER (2 DOORS)	47" W x 12" D x 30" H METAL GLASS-SLIDER (2 DOORS)	35" W x 12" D x 30" H METAL SLIDER (2 DOORS)	47" W x 12" D x 30" H METAL SLIDER (2 DOORS)	35" W x 12" D x 30" H GLASS-SLIDER (2 DOORS)	35" W x 12" D x 30" H METAL 2 DOOR SWINGING	30" W x 13 1/2" D x 25 1/2" H METAL 2 DOOR SWINGING
RESEARCH LAB 2	1						
	1	2	2				
RESEARCH LAB 3							
RESEARCH LAB 18		6					
RESEARCH LAB 20							
BIO BANK 21				1			
				2			
HISTOLOGY 22		1					
RESEARCH LAB 47							

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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

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WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

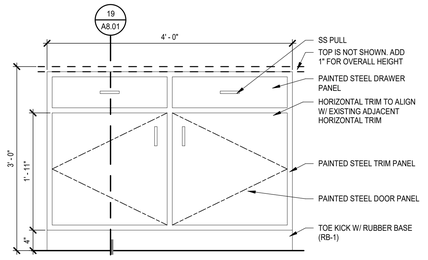
SHEET TITLE EXISTING RELOCATED CASEWORK

DATE 11/02/17

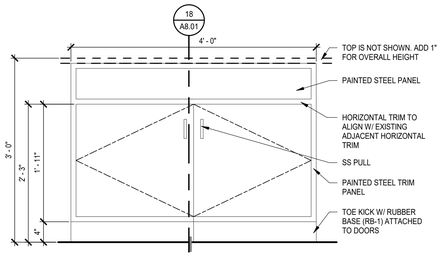
PROJECT NO. SCS-1640

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

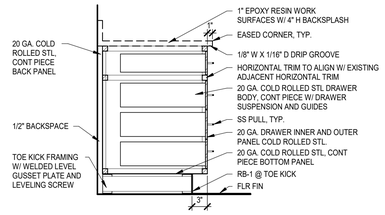
SHEET NO. A8.00



30 BASE 8 ELEVATION
SCALE: 1" = 1'-0"



29 BASE 9 ELEVATION
SCALE: 1" = 1'-0"



28 BASE 13 SECTION
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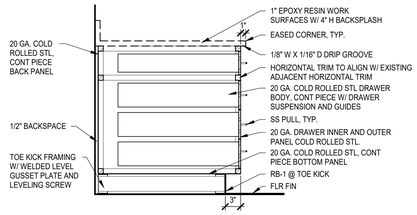

27 BASE 12 SECTION
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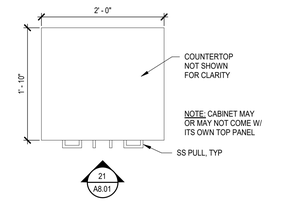
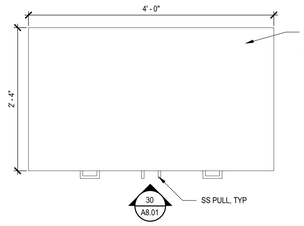


26 BASE 11 PLAN
SCALE: 1" = 1'-0"



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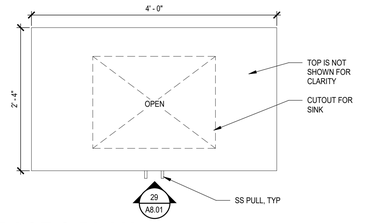
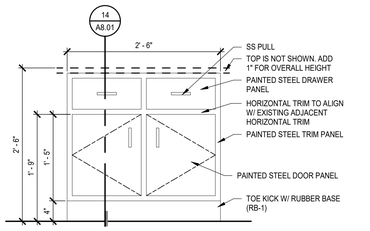
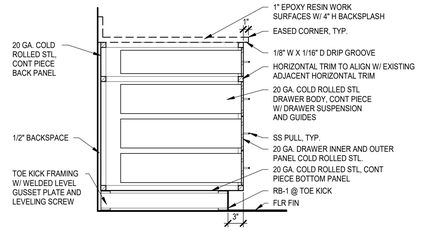


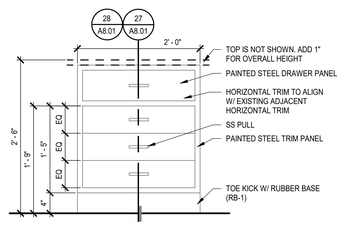
24 BASE 9 PLAN
SCALE: 1" = 1'-0"



23 BASE 10 ELEVATION
SCALE: 1" = 1'-0"



22 BASE 3 SECTION
SCALE: 1" = 1'-0"



21 BASE 11 ELEVATION
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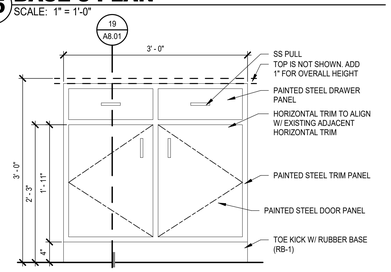

20 BASE 7 ELEVATION
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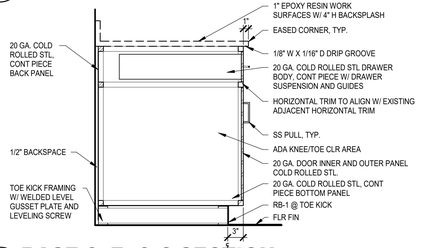

19 BASE 6, 7, & 8 SECTION
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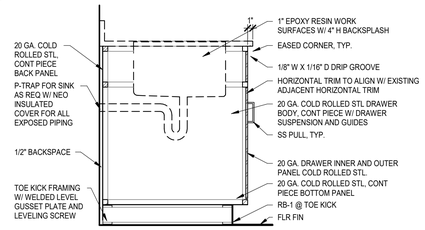

18 BASE 9 SECTION
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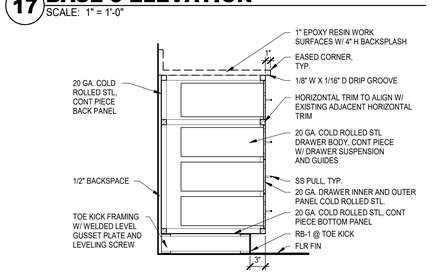

17 BASE 3 ELEVATION
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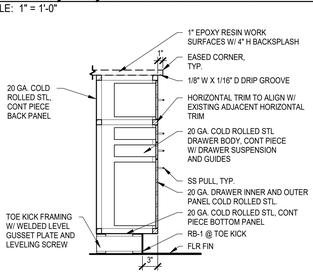

16 BASE 5, 12, & 13 ELEVATION
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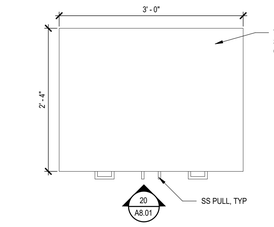
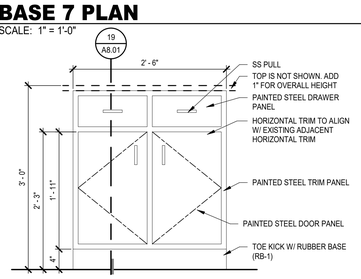


15 BASE 7 PLAN
SCALE: 1" = 1'-0"



10 BASE 6 ELEVATION
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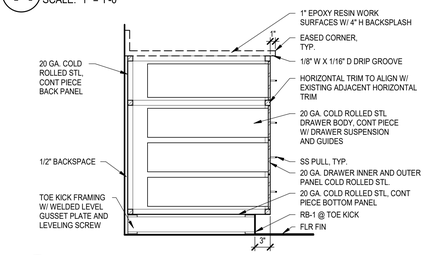

9 BASE 5 SECTION
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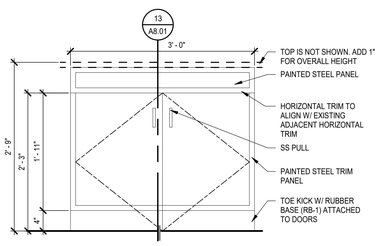

8 BASE 4 ELEVATION
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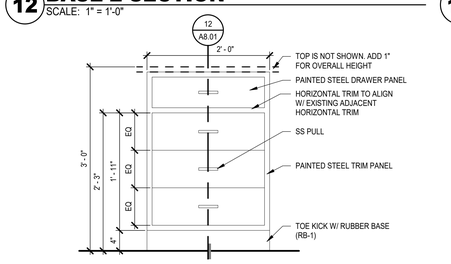

7 BASE 2 SECTION
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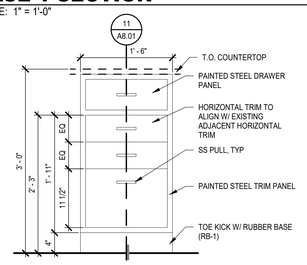
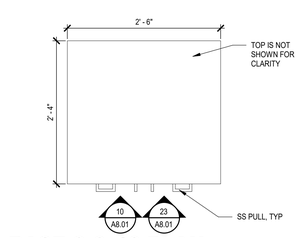


6 BASE 1 ELEVATION
SCALE: 1" = 1'-0"



5 BASE 6 & 10 PLAN
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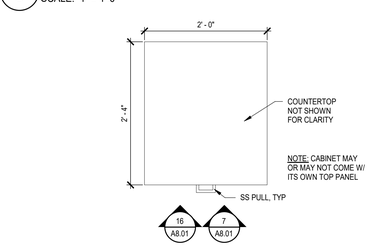

4 BASE 5 & 13 PLAN
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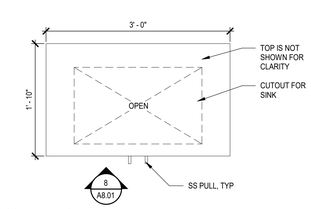

3 BASE 4 PLAN
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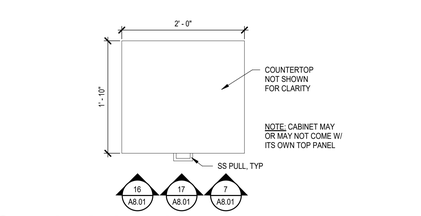

2 BASE 2, 3, & 12 PLAN
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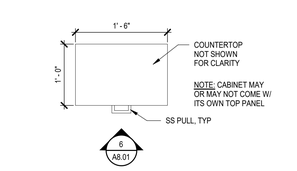

1 BASE 1 PLAN
SCALE: 1" = 1'-0"

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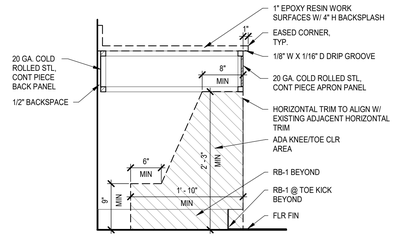
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	A8.01



25 KNEE 7, 8, 9 & 10 SECTION
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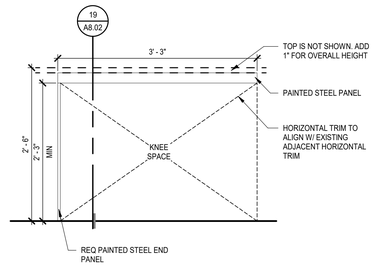

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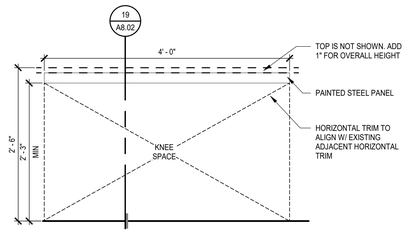

23 KNEE 4 ELEVATION
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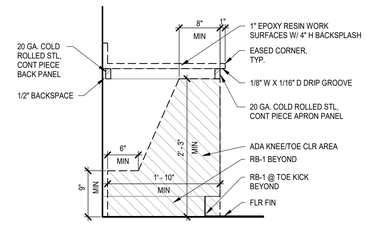

22 KNEE 11 & 13 SECTION
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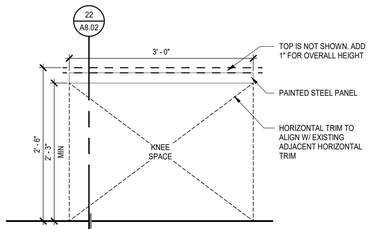

21 KNEE 11 ELEVATION
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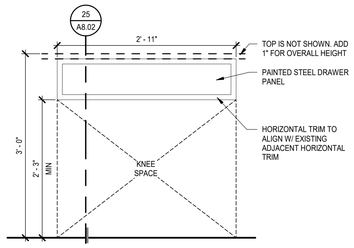

20 KNEE 7 ELEVATION
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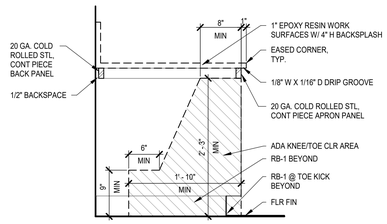

19 KNEE 4 &12 SECTION
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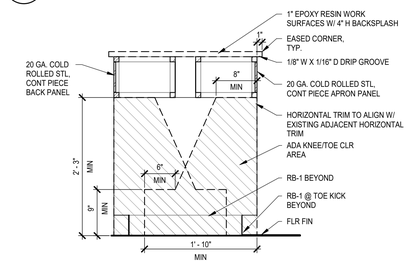

18 KNEE 3 SECTION
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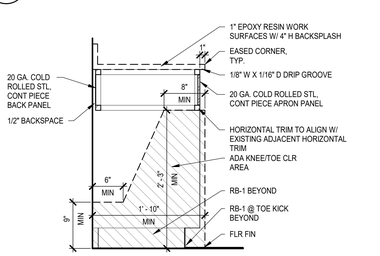

17 KNEE 2, 5 & 6 SECTION
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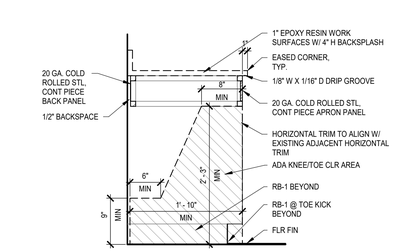

16 KNEE 1 SECTION
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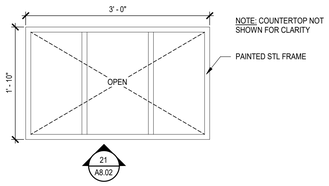

15 KNEE 11 PLAN
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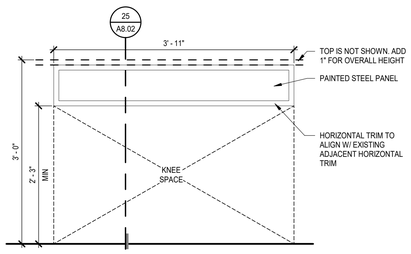

14 KNEE 9 ELEVATION
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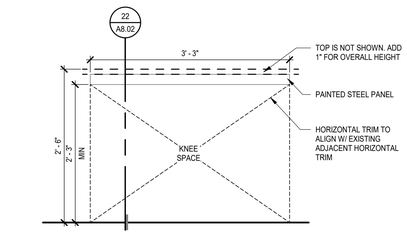

13 KNEE 13 ELEVATION
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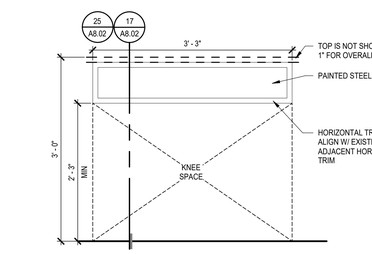

12 KNEE 2 & 8 ELEVATION
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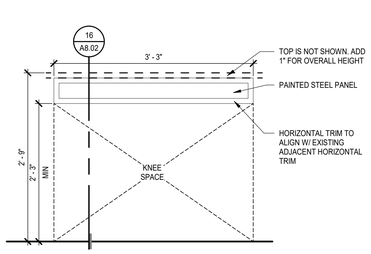

11 KNEE 1 ELEVATION
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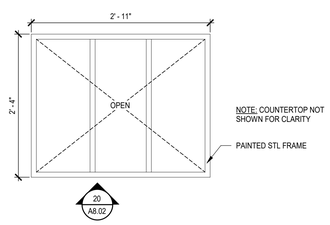

10 KNEE 7 PLAN
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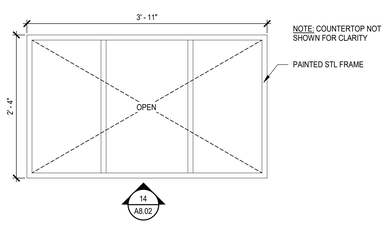

9 KNEE 9 PLAN
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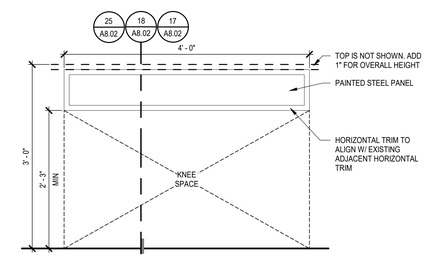

8 KNEE 3, 6 & 10 ELEVATION
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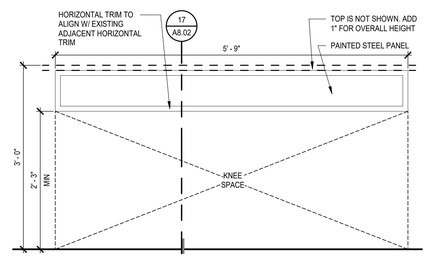

7 KNEE 5 ELEVATION
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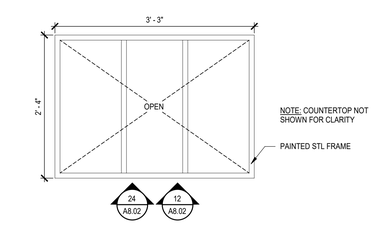

6 KNEE 8 & 12 PLAN
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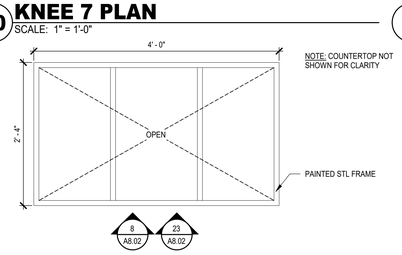

5 KNEE 4 & 10 PLAN
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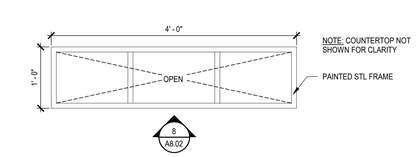

4 KNEE 3 PLAN
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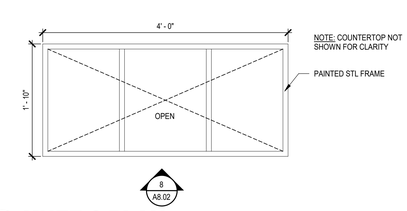

3 KNEE 6 PLAN
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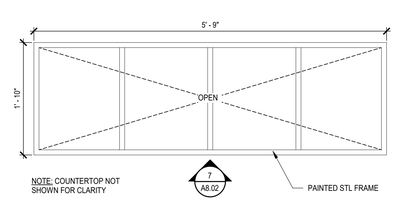

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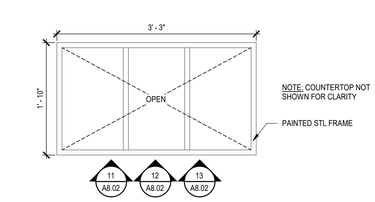

1 KNEE 1, 2 & 13 PLAN
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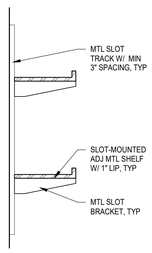
SHEET NO.	**A8.02**



10 ADJ SHELF 1, 2, 3, & 4 SECTION
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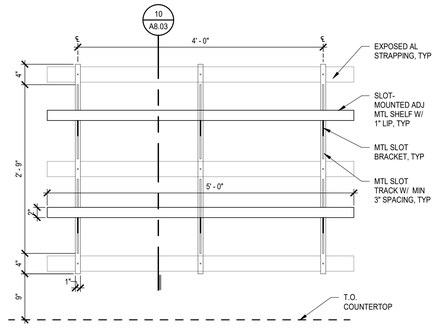

9 ADJ SHELF 4 ELEVATION
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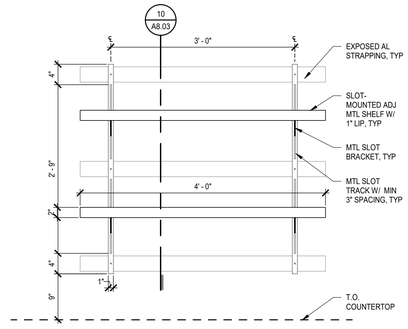

8 ADJ SHELF 3 ELEVATION
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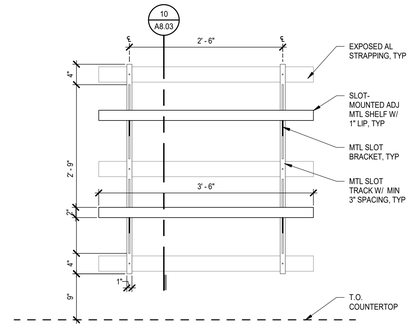

7 ADJ SHELF 2 ELEVATION
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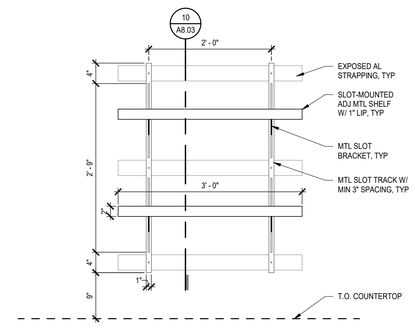

6 ADJ SHELF 1 ELEVATION
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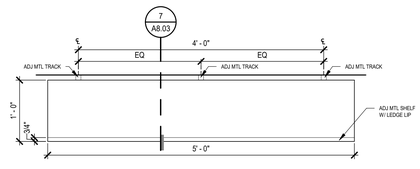

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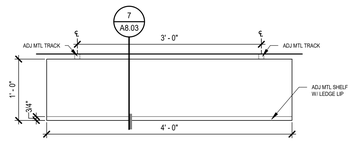

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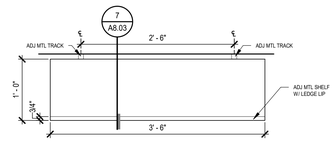

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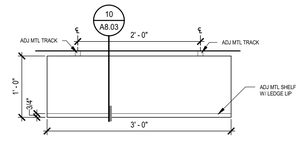

1 ADJ SHELF 1 PLAN
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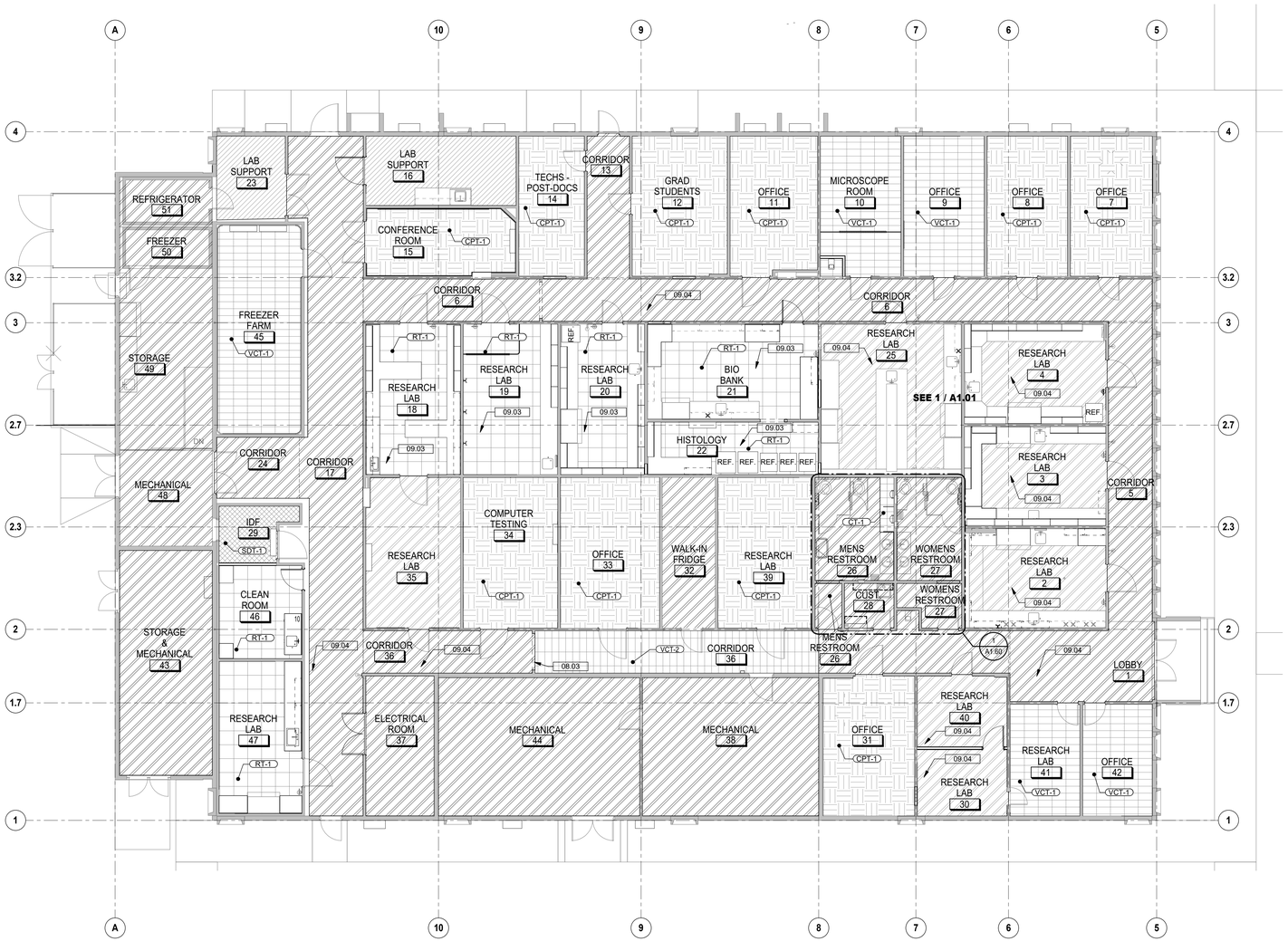
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**A8.03**



1 FLOOR FINISH PLAN

SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

FINISH MATERIALS LEGEND

- EXISTING FLOOR TO REMAIN
- AREA N.I.C.
- CPT-1 (CARPET TILE) INSTALLATION: ASHLAR
- VCT-1 (VINYL COMPOSITION TILE)
- RT-1 (RUBBER TILE)
- SDT-1 (STATIC DISSIPATIVE VINYL TILE) AT IDF ROOM ONLY
- CERAMIC TILE

KEYNOTE LEGEND

NO	KEYNOTE
08.03	CREATE OPENING IN WALLS TO SUITE DOOR ASSEMBLY SHOWN ON FLOOR PLAN AND DESCRIBED PER DOOR 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.

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REVISIONS

NO. DATE DESCRIPTION

CONSULTANT

STAMP

WADE Y. SIMPSON REGISTERED No. 2988 11.02.17 ARCHITECT STATE OF NEVADA

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE **FLOOR FINISH PLAN**

DATE	11/02/17
PROJECT NO.	SCS-1640
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	**ID1.01**

GENERAL STRUCTURAL NOTES

SPECIAL CONDITIONS, REQUIREMENTS AND NOTES TO OWNER, DEVELOPER AND CONTRACTORS

CONTRACTOR, BUILDER AND SUBCONTRACTORS INVOLVED IN ANY FORM OF CONSTRUCTION USING THESE DOCUMENTS SHALL INFORM THE OWNER AND DEVELOPER IN WRITING PRIOR TO CONSTRUCTION OF THE FOLLOWING RESPONSIBILITIES, PERFORMANCE CRITERIA AND LIMITATIONS AND RISKS ASSOCIATED WITH CONSTRUCTION. IF THE OWNER, DEVELOPER OR CONTRACTOR IS NOT ABLE TO ACCEPT RESPONSIBILITIES OR PERFORMANCE CRITERIA AND LIMITATIONS, NOTIFY OUR OFFICE PRIOR TO START OF CONSTRUCTION. IT SHALL BE EXPRESSLY UNDERSTOOD THAT THE ENGINEER IS NOT RESPONSIBLE OR LIABLE FOR THE LACK OF PERFORMANCE OF MATERIALS, SYSTEMS OR DESIGNS NOT BEING LIMITED TO ITEMS OUTLINED BELOW. CONTRACTORS AND SUBCONTRACTORS SHALL THOROUGHLY REVIEW ALL CONDITIONS AND RESPONSIBILITIES STATED IN THESE NOTES, GENERAL STRUCTURAL NOTES, PLANS, SECTIONS AND DETAILS AND SHALL NOTIFY THE ENGINEER AND OWNER IN WRITING PRIOR TO CONSTRUCTION OF ANY CONDITIONS OR RESPONSIBILITIES WHICH ARE NOT ACCEPTABLE OR NOT UNDERSTOOD.

1. VARIATION IN DIMENSIONS MAY OCCUR AS A RESULT OF THERMAL INFLUENCES, NATURAL DEFLECTIONS AND/OR CAMBERS OF MEMBERS. AS A RESULT, QUANTITIES MAY VARY AND ARCHITECTURAL FINISHES MAY BE AT RISK OF COSMETIC VARIATION OR DAMAGE.

2. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR VARIATIONS TO PLANS BETWEEN BID PROCESS AND FINALIZED APPROVED DOCUMENTS RELEASED FOR CONSTRUCTION. ADDITIONS AND ALTERATIONS MAY BE MADE BETWEEN RELEASE OF BID DOCUMENTS AND FINALIZED CONSTRUCTION DOCUMENTS.

3. DESIGNS HAVE BEEN COMPLETED USING THE CODE STATED IN THE BASIS FOR DESIGN. WHERE MORE THAN ONE REFERENCE IS LISTED BELOW, THE REFERENCE THAT CORRESPONDS TO THE CODE STATED IN THE BASIS OF DESIGN SHALL BE USED. OTHER SPECIALIZED CODES OR DIRECTIVES (HUD, OSHA, ASSHTO, ETC.) ARE NOT USED IN THE PREPARATION OF THESE DOCUMENTS AND ARE NOT REFERENCED.

4. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR, SUBCONTRACTOR AND/OR WORKPERSONS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL WORK NOT EXPLICITLY SHOWN.

5. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, FORMWORK, ETC. AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. CONSTRUCTION MATERIALS SHALL BE UNIFORMLY SPREAD OUT SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED BEFORE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

7. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

8. TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY. WHERE DISCREPANCIES OCCUR IN THESE DRAWINGS, NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

9. ALL OPENINGS ARE NOT SHOWN ON THESE DRAWINGS. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. OPENINGS MAY REQUIRE ADDITIONAL REINFORCING OR SUPPORTS AS SHOWN ON TYPICAL DETAILS. IF TYPICAL DETAILS FOR ALL CONDITIONS ARE NOT INCLUDED HEREIN, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST IN WRITING ADDITIONAL INFORMATION.

10. ALL INSPECTIONS REQUIRED BY THE BUILDING CODES, LOCAL BUILDING OFFICIALS, OR BY THESE PLANS SHALL BE PROVIDED BY AN INDEPENDENT INSPECTION COMPANY OR, THE BUILDING DEPARTMENT. INSPECTION REQUIREMENTS STATED HEREIN ARE PARTIAL. COMPLETE INSPECTION REQUIREMENTS SHALL BE AS DIRECTED BY THE LOCAL BUILDING DEPARTMENT. SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

11. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. ALLOW FIVE WORKING DAYS FOR THE ENGINEER'S REVIEW. ONE COPY OF EACH SUBMITTAL WILL BE RETAINED FOR THE ENGINEER'S RECORDS.

12. THIS PROJECT CONTAINS ASBESTOS AND LEAD PAINT ABATEMENT THAT NEEDS TO BE DONE BY THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO STUDY ALL THE ABATEMENT NOTES INCLUDED WITHIN THE ARCHITECTURAL DISCIPLINE NOTES, VISIT THE SITE FOR RECOGNITION OF EXISTING CONDITIONS, READ AVAILABLE INFORMATION CONCERNING THE ASBESTOS (INCLUDED WITH THE SPECIFICATIONS) AND MAKE A PROFESSIONAL JUDGEMENT OF THE REQUESTED WORK, INCLUSIVE OF THE ABATEMENT BEFORE CALCULATING THE VALUES FOR THE BID, CONFIRMING THE TIME SCHEDULE FOR THE PROJECT AND BIDDING THE CONSTRUCTION DOCUMENTS OF THIS RENOVATION.

13. THERE ARE EXISITING CONDITIONS OF THE FLOOR ABATEMENT THAT IMPEDE APPROPRIATELY DETERMINING THE EXTENT OF REMEDIAL SLAB ON GRADE WORK AND ITS SUB-GRADE REPAIRS. THE CONTRATOR IS REQUIRED TO WORK IN THE FIELD WITH THE STRUCTURAL AND SOILS ENGINEERS TO ADJUST THE EXTENT OF REPAIR DETAILS TO THE NEEDED COVERAGE.

14. THIS RENOVATION WORK INCLUDES INSTALLING A FIRE ALARM WET SPRINKLER MONITIORING SYSTEM TO THE EXISTING WET SPRINKLER SYSTEM AND ITS REQUIRED EXTENSIONS. THE DEFERRED SUBMITTALS SEEKING THE APPROVAL OF THIS SYSTEM NEED TO DETERMINE IF ADDITIONAL LOADS ARE GOING TO BE ADDED TO THE STRUCTURAL SYSTEM. PRESENT SUCH LOADS TO THE STRUCTURAL ENGINEER TO DETERMINE IF THERE ARE ADDITIONAL RECOMMENDATIONS ON HOW TO SUPPORT THESE ADDITIONAL LOADS.

BASIS FOR DESIGN

1. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE (IBC)

2. RISK CATEGORY: III

3. WIND LOAD: 120 MPH, 3-SECOND GUST ULTIMATE DESIGN WIND SPEED
   EXPOSURE C

4. SEISMIC DESIGN DATA:
   MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss=0.463, S1=0.159
   SPECTRAL RESPONSE COEFFICIENTS: Sds=0.441, Sd1=0.229
   SITE CLASS= D

5. SNOW LOAD: N/A

6. FLOOD LOAD: N/A

7. SPECIAL LOADS: N/A

CONCRETE

1. MINIMUM 28 DAY STRENGTH (f'c) SHALL BE 4500 PSI , W/C = .45 *

   *INDICATES STRENGTH INCREASED DUE TO SOIL SULFATE EXPOSURE. DESIGN BASED ON 2500 PSI CONCRETE STRENGTH.

2. CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER. MIX DESIGNS FOR POST-TENSIONED CONCRETE SHALL BE PROPORTIONED SO AS TO MINIMIZE SHRINKAGE CRACKING.

3. ALL CONCRETE SHALL BE REGULAR WEIGHT OF 145 POUNDS PER CUBIC FOOT USING HARDROCK AGGREGATES. AGGREGATE USED IN CONCRETE SHALL CONFORM TO ASTM C33, CONCRETE AGGREGATES.

4. MAXIMUM SLUMP FOR SLABS SHALL BE 5 INCHES.

5. PORTLAND CEMENT SHALL CONFORM TO ASTM C150. TYPE V CEMENT SHALL BE USED

6. NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT, UNLESS APPROVED BY THE ENGINEER OR AUTHORIZED TESTING AGENCY.

7. CONCRETE MIXING, PLACEMENT AND QUALITY SHALL BE PER IBC CHAPTER 19, ASTM C94, ASTM C685, AND ACI 302. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT SLABS ON GRADE NEED ONLY BE VIBRATED OR THOROUGHLY RODDED AROUND EMBEDDED STRAPS OR HARDWARE, BOLTS FOR HOLDOWNS, PT ANCHORAGES (AS OCCUR), CURBS AND EDGES OF SLAB STEPS AND UNDER FLOOR DUCTS OR SIMILAR ELEMENTS. REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS AND COLUMNS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET. CARE SHALL BE TAKEN IN PLACING SLABS ON GRADE SO AS NOT TO DISTURB FILL MATERIAL.

8. ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC. SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.

9. CONCRETE SLAB ON GRADE CONTROL JOINTS SHALL BE AS SHOWN ON THE FOUNDATION PLAN OR TYPICAL DETAILS. WHERE CONTROL JOINTS ARE NOT SHOWN ON PLANS, ALL CONCRETE SLABS ON GRADE SHALL BE BOUNDED BY KEYED, DOWELED OR SAW-CUT CONTROL JOINTS SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 260 SQUARE FEET. RATIO OF BOUNDARY DIMENSIONS SHALL NOT EXCEED 1.5:1. KEYED OR DOWELED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT. POST-TENSIONED CONCRETE SLABS ON GRADE SHALL NOT HAVE CONTROL JOINTS UNLESS SPECIFICALLY NOTED ON THE PLANS.

10. NO PIPES OR ELECTRICAL CONDUITS SHALL BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. MAXIMUM PIPE SIZE SHALL BE 1/3 OF THE SLAB THICKNESS AND LOCATED AT THE MID-DEPTH. MINIMUM SPACING SHALL BE 3 TIMES THE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER.

11. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO COLD OR HOT WEATHER IN ACCORDANCE WITH ACI 305 AND 306 AND ACI 318 SECTIONS 5.12 AND 5.13.

COLD FORMED STEEL FRAMING

1. ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE.

2. STRUCTURAL DRAWINGS TYPICALLY SHOW ONLY THE PRIMARY STRUCTURAL FRAMING ELEMENTS OF THE SYSTEM. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES INCLUDING TRACKS, WEB STIFFENERS, LINTELS, CLIP ANGLES, REINFORCEMENTS, FASTENING DEVICES, BRACING, AND OTHER ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE A COMPLETE FRAMING SYSTEM.

3. STEEL FOR 12, 14 AND 16 GAGE STUDS AND JOISTS SHALL HAVE MINIMUM YIELD STRENGTH OF 50 KSI. STEEL FOR ALL 18, 20, AND 25 GAGE STUDS AND JOISTS, ALL GAGES OF TRACK, ALL DIAGONAL TENSION STRAPS OR BRACES, AND BRIDGING SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. STEEL SHALL BE GALVANIZED OR THOROUGHLY COATED WITH RUST INHIBITIVE PAINT AT ALL LOCATIONS.

4. FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDS. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT.

5. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, AND BEAM BEARING.

6. WALL STUD BRIDGING, AS RECOMMENDED BY THE STUD MANUFACTURER, SHALL BE INSTALLED TO PREVENT BOTH WEAK AXIS BENDING AND STUD ROTATION AT 4'-0" MAXIMUM INTERVALS. WALLS 8'-0" AND SHORTER SHALL HAVE A SINGLE ROW OF BRIDGING AT MID- HEIGHT. EXCEPT AS NOTED WALL BRIDGING IS NOT REQUIRED AT WALL WITH GYPSUM WALLBOARD FINISH ON BOTH SIDES. IN ADDITION, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND ELSEWHERE AS NOTED ON THE DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

7. SCREWS SHALL BE SELF-TAPPING PAN HEAD, HEX HEAD, OR WAFER HEAD SHEET METAL SCREWS. A SCREW OF A LARGER DIAMETER SHALL REPLACE SCREWS, WHICH ARE REMOVED WHERE THE REPLACEMENT IS MADE INTO AN EXISTING HOLD. REPLACE ALL SCREWS, WHICH STRIP OUT MATERIAL. SCREWS SHALL BE SPACED NO CLOSER THAN 5/8 INCH ON CENTER AND WITH A MINIMUM FREE EDGE DISTANCE OF 1/2 INCE. CLIP ANGLES OR FLAT CLIPS USED FOR ATTACHMENTS SHALL BE SINGLE GAGE LARGER THAN CONNECTED PIECES, 18 GAGE MINIMUM, UNLESS NOTED OTHERWISE. SIZE CLIP ANGLES AND FLAT CLIPS TO MAINTAIN MINIMUM SCREW SPACING AND EDGE DISTANCES NOTED ABOVE. ALL SCREWS #8 AND LARGER SHALL HAVE A MINIMUM HEAD SIZE OF 5/16 INCH.

8. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE, STRUCTURAL STEEL FRAMING WORK.

9. STUDS SIZE WHERE NOT SPECIFICALLY NOTED ON DETAILS SHALL BE 3-5/8 INCH WIDE BY 1-3/8" INCH DEEP BY 20 GAGE (362S137-33) MINIMUM. TRACK SIZE WHERE NOT SPECIFICALLY NOTED ON DETAILS SHALL BE 3-5/8 INCH WIDE BY 1-1/4 INCH DEEP BY 20 GAGE (362T125-33) MINIMUM.

10. JOISTS, STUDS, TRACK, ETC., SHALL HAVE STEEL THICKNESS AND EFFECTIVE SECTION PROPERTIES AS LISTED IN THE LATEST EDITION OF THE STEEL STUD MANUFACTURERS ASSOCIATION MANUAL, OR EQUIVALENT.

11. POWER ACTUATED FASTENERS (PAF) SHALL BE HILTI X-U FASTENERS (ICC REPORT NO. ESR-2269) OR ICC APPROVED MANUFACTURER WITH EQUIVALENT OR GREATER SHEAR AND TENSION VALUES. FASTENERS SHALL BE INSTALLED PER ALL MANUFACTURER REQUIREMENTS. LIGHT GAGE STEEL MEMBERS ANCHORAGE TO CONCRETE, MASONRY OR STRUCTURAL STEEL BY MEANS OF POWER ACTUATED FASTENERS SHALL HAVE CONNECTOR SPACING NOT TO EXCEED 24" O.C., UNLESS NOTED OTHERWISE ON PLANS. MINIMUM POWER ACTUATED FASTENERS POINT PENETRATION: STEEL: 3/8", CONCRETE: 1", MASONRY: 1". MINIMUM EDGE DISTANCES; STEEL: 1/2", CONCRETE: 3", MASONRY: 4". MINIMUM SPACING BETWEEN FASTENERS; STEEL: 1", CONCRETE: 4", MASONRY: SEE REPORT.

EPOXY ANCHORAGES

1. EPOXIED THREADED ROD ANCHORS INTO CONCRETE SHALL BE ANCHORED WITH HILTI HAS 5.8 THREADED RODS IN A DRY HAMMER DRILLED HOLE WITH HILTI HIT-RE 500-SD EPOXY ADHESIVE (ICC NO. ESR-2322). INSTALL PER ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.

2. EPOXIED REINFORCEMENT INTO CONCRETE SHALL BE ANCHORED IN A DRY HAMMER DRILLED HOLE WITH HILTI HIT-RE 500-SD EPOXY ADHESIVE (ICC NO. ESR-2322). INSTALL PER ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.

3. EPOXIED THREADED RODS ANCHORS INTO MASONRY SHALL BE ANCHORED WITH A307 THREADED RODS IN A DRY HAMMER DRILLED HOLE WITH SIMPSON SET-XP EPOXY ADHESIVE (IAPMO ESR-265) OR HILTI HIT HY 150 MAX EPOXY ADHESIVE (ICC NO. ESR-1967).

4. EPOXIED REINFORCEMENT INTO MASONRY SHALL BE ANCHORED IN A DRY HAMMER DRILLED HOLE WITH SIMPSON SET-XP EPOXY ADHESIVE (IAPMO ESR-265) OR HILTI HIT HY 150 MAX EPOXY ADHESIVE (ICC NO. ESR-1967).

5. SPECIAL INSPECTION REQUIRED FOR ALL EPOXY INSTALLATIONS.

INSPECTION NOTES

1. IN ADDITION TO THE STANDARD INSPECTIONS BY THE BUILDING OFFICIAL REQUIRED PER IBC CHAPTER 17, THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS WHO SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION FOR THE TYPES OF WORK LISTED IN THIS SECTION.

2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

3. THE SPECIAL INSPECTOR SHALL INSPECT THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED CONTRACT DRAWINGS AND SPECIFICATIONS. SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE CODE PROVISIONS.

4. INSPECTORS SHALL INSPECT FROM AN APPROVED SET OF CONTRACT DRAWINGS. SHOP DRAWINGS SHALL NOT BE USED IN LIEU OF THE APPROVED CONTRACT DRAWINGS FOR INSPECTION PURPOSES.

5. TYPES OF WORK TO BE INSPECTED BY THE SPECIAL INSPECTOR ARE AS FOLLOWS:

   a) DURING ALL EPOXY ANCHORING OPERATIONS FOR BOLTS, REBAR, THREADED ROD, ETC., INCLUDING VERIFICATION OF BOLT OR BAR MATERIALS, HOLE DEPTH AND DIAMETER, HOLE CLEANOUT, EPOXY MIXING AND PLACEMENT PROCEDURES, AND EMBEDMENT DEPTH IN ACCORDANCE THE CONTRACT DRAWINGS AND THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

   b) DURING INSTALLATION FOR ALL POST-INSTALLED ANCHORS INTO CONCRETE OR MASONRY INCLUDING SCREW ANCHORS, EXPANSION/WEDGE ANCHORS, SLEEVE ANCHORS, OR EPOXY ANCHORS OR REBAR INCLUDING VERIFICATION OF ANCHOR/EPOXY MANUFACTURER, ANCHOR TYPE, DIAMETER AND EMBEDMENT, ANCHOR ROD/REINFORCING GRADE, HOLE DEPTH AND DIAMETER AND ALL CLEANOUT AND INSTALLATION PROCEDURES IN ACCORDANCE WITH THE CONTACT DRAWINGS AND THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

6. CERTIFICATE OF APPROVAL REGARDING MATERIALS AND INSPECTION OF PREFABRICATED ITEMS SHALL BE PROVIDED IN ACCORDANCE WITH IBC SECTION 1703 THE QUALITY ASSURANCE PROGRAM.

SYMBOL LEGEND

PLANS

- COLUMN SECTIONS
- SCHEDULED ITEM OR HARDWARE CALLOUT
- TOS 98'-0" — TOP OF ELEVATION
- STEEL STUD OR WOOD STUD WALL
- TILT-UP CONCRETE PANEL WALL
- 1 — REVISION NUMBER
- SPAN DIRECTION
- SL 2" — SLOPE DIRECTION
- LIMITS OF AREA OF CALLOUT (NOT SPAN DIRECTION)
- LIMITS OF AREA OF CALLOUT (NOT SPAN DIRECTION)
- LIMITS OF REINF BARS
- 4" — STEP IN SLAB ELEVATION
- P22 / A-102 — WALL PANEL NUMBER / BUILDING DESIGNATION OR SHEET NUMBER
- OPENING
- MECHANICAL UNIT
- 201 — DETAIL CUT IN SECTION
- 201 — DETAIL CUT VIEW DIRECTION
- 201 — DETAIL CUT VIEW DIRECTION
- 201 — DETAIL CUT PLAN VIEW
- 201 — DETAIL REFERENCE

DETAILS

- KEYNOTE
- STRUCTURAL PAD GRADE OR NATURAL FILL
- SELECT FILL OR GRANULAR BACKFILL
- TOP OF LANDSCAPE GRADE. UNCOMPACTED FILL
- CAST IN PLACE CONCRETE
- PRECAST CONCRETE
- MASONRY
- GROUT SECTION
- STEEL SECTION
- WOOD SECTION CONTINUOUS
- WOOD SECTION DISCONT. OR BLK
- PLYWOOD OR WOOD SHEATHING

STANDARD ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ACS	ALL COMMON SURFACES
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS
ARCH'L	ARCHITECTURAL
ALT	ALTERNATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIAL
BO	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
C	CHANNEL
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
℄	CENTER LINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
°	DEGREE
DIA OR Ø	DIAMETER
DIAG	DIAGONAL
DWG	DRAWING
EF	EACH FACE
EL	ELEVATION
EQ	EQUAL
EW	EACH WAY
FF	FINISH FLOOR
FLR	FLOOR
FND	FOUNDATION
FT	FOOT
FTG	FOOTING
GA	GAGE
GSN	GENERAL STRUCTURAL NOTES
HI	HIGH
HORIZ	HORIZONTAL
ICBO	INTERNATIONAL CONFERENCE OF BLDG OFFICIALS
ID	INSIDE DIAMETER
INFO	INFORMATION
JT	JOINT
K	KIP (1,000 LBS)
KSI	KIPS PER SQUARE INCH
L	ANGLE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO	LOW
MFR	MANUFACTURER
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REQ'D	REQUIRED
SIM	SIMILAR
SPEC	SPECIFICATION
STD	STANDARD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TO	TOP OF
TOC	TOP OF CONCRETE
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOL	TOP OF LEDGER
TOP	TOP OF PANEL
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UNO	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

SHEET INDEX

REVISION	REVISION DATE	ISSUED	SHEET NO.	SHEET TITLE
		•	S1.01	GENERAL STRUCTURAL NOTES
		•	S2.01	FOUNDATION PLAN AND DETAILS

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REVISIONS

NO.	DATE	DESCRIPTION

ENGINEER

Mendenhall Smith STRUCTURAL ENGINEERS
2580 MONTESSOURI STREET, STE 107
Las Vegas, Nevada 89117
P.702.367.672
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STAMP

OWNER UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE GENERAL STRUCTURAL NOTES

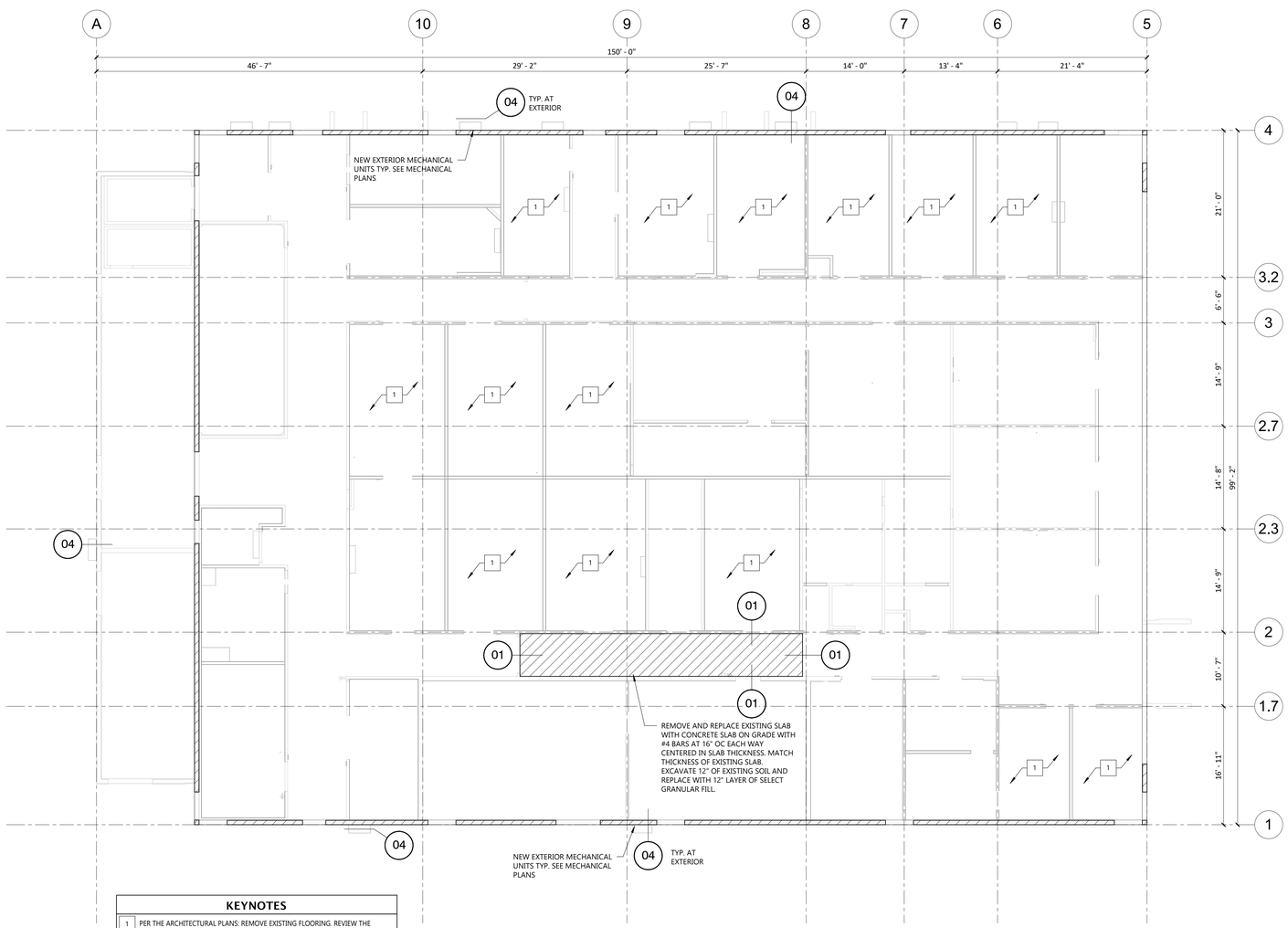
DATE 06/22/17

PROJECT NO. 17-121

SUBMITTAL 100% CONSTRUCTION DOCUMENTS

SHEET NO.

S1.01

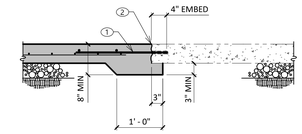


KEYNOTES	
1	PER THE ARCHITECTURAL PLANS: REMOVE EXISTING FLOORING. REVIEW THE CONCRETE SLAB AND SAWCUT IT AS REQUIRED TO REPAIR THE SUBSTRATE WITH SELECTED MATERIAL. POUR AND PATCH CONCRETE AS REQUIRED.

FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

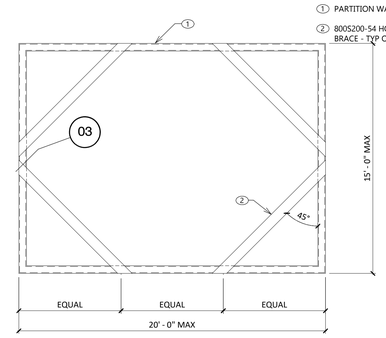
NORTH



NOTE:
SPECIAL INSPECTION REQUIRED FOR ALL EPOXY INSTALLATIONS.

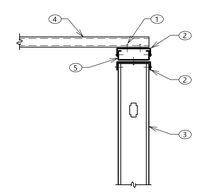
01 SLAB REPAIR AT EXISTING SLAB

01 - RF15-03 NO SCALE



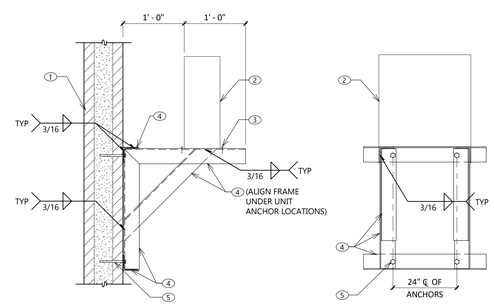
02 PLAN - TYPICAL ROOM PARTITION SUPPORT

02 - NO SCALE



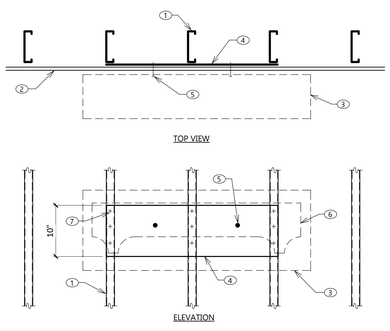
03 HORIZONTAL BRACE AT PARTITION WALL

03 - NO SCALE



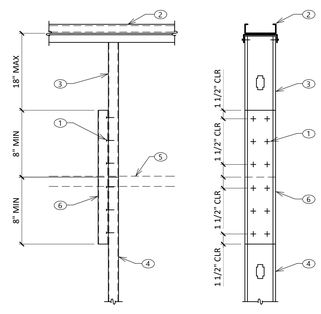
04 MECH UNIT ANCHORAGE

04 - NO SCALE



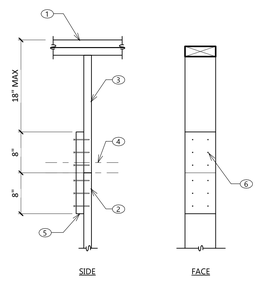
07 MECHANICAL UNIT AT STEEL STUD WALL

07 - NO SCALE



06 STEEL STUD WALL EXTENSION

06 - NO SCALE



05 WOOD STUD EXTENSION AT WALL

05 - NO SCALE

STUDIO
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OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE: FOUNDATION PLAN AND DETAILS

DATE	06/22/17
PROJECT NO.	17-121
SUBMITTAL	100% CONSTRUCTION DOCUMENTS
SHEET NO.	S2.01

MECHANICAL LEGEND, NOTES, SCHEDULES AND ENERGY COMPLIANCE REPORT

SYMBOLS

48x36	DUCTWORK OR EQUIPMENT. DUCT SIZE NOTATION W/SIZE OF NEAREST SIDE INDICATED FIRST.
(SL)	SOUND LINED DUCT OR PLENUM. SIZES INDICATED ON PLANS ARE NET INSIDE DIMENSIONS.
SAD	SUPPLY AIR DUCT SECTION.
RAD	RETURN AIR DUCT SECTION.
EAD	EXHAUST AIR DUCT SECTION.
AP OR AD	ACCESS PANEL OR DOOR.
SWR	SIDEWALL REGISTER W/EXTRACTOR.
CD	CEILING SUPPLY DIFFUSER W/THROW.
CG OR CR	CEILING RETURN GRILLE OR REGISTER.
EG OR ER	CEILING EXHAUST GRILLE OR REGISTER.
FC	FLEXIBLE DUCT CONNECTION.
TH	THROAT SIZE.
TV	TURNING VANES.
FD	AUTOMATIC FIRE DAMPER.
MSD	MOTORISED SMOKE DAMPER.
VD	VOLUME(MANUAL) DAMPER.
MD	MOTORISED DAMPER.
R OR D	DUCT RISE OR DROP
	BRANCH TAKEOFF
	RECTANGULAR TO ROUND DUCT
FLEX	FLEXIBLE DUCT.
S OR SA	SUPPLY AIR FLOW.
R OR RA	RETURN AIR FLOW.
X OR EXH	EXHAUST AIR FLOW.
OSA, OA	OUTSIDE AIR FLOW.
DL — 2	DOOR LOUVER W/FREE AREA SQ FT.
T'STAT/SENSOR	THERMOSTAT/SENSOR
VS	VARIABLE SPEED CONTROLLER.
DSD	DUCT SMOKE DETECTOR.
VD	VOLUME DAMPER.
MD	MOTORISED DAMPER.
MSD	MOTORISED SMOKE DAMPER.
CAP	CAP
	REFRIGERANT PIPING
CD	CONDENSATE DRAIN
G	GAS–NATURAL
MG	GAS–MEDIUM PRESSURE
(E)	EXISTING DUCTWORK
(E)	EXISTING
(E)	EXISTING PIPING TO BE REMOVED
(E)	EXISTING EQUIP. TO BE REMOVED
(N)	NEW
P.O.D.	POINT OF DISCONNECT
P.O.C.	POINT OF CONNECTION
(XX)	NOTE REFERENCE

DETAIL / REFERENCE

XX / XX — DETAIL/ TAG / SHEET NUMBER

EQUIPMENT IDENTIFICATION SYMBOL

XX / XX — EQUIPMENT TYPE / EQUIPMENT IDENTIFIER

AIR DEVICE IDENTIFICATION SYMBOL

(E)SD — EXISTING AIR SUPPLY DIFFUSER
XXX — CFM

(E)EG — EXISTING EXHAUST GRILL OR REGISTER
XXX — CFM

XX / XX — AIR DEVICE TAG / CFM

ABBREVIATIONS

A	AIR
ABV.	ABOVE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
AS	AUTOMATIC FIRE SPRINKLER PIPING
ASS'Y.	ASSEMBLY
BEL	BELOW
BHP	BRAKE HORSEPOWER
BOT	BOTTOM
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALANCING VALVE
C	CONVERTOR
CFF	CAPPED FOR FUTURE
C.F.H.	CUBIC FEET PER HOUR
CLG.	CEILING
CONN	CONNECTION/ CONNECT
CFM	CUBIC FEET PER MINUTE
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CONTR.	CONTRACTOR
COTG	CLEANOUT TO GRADE
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CU UNIT	CONDENSING UNIT
CW	DOMESTIC COLD WATER
DIA	DIAMETER
DB	DRY BULB TEMPERATURE
DN.	DOWN
DR	DRAIN
DWG.	DRAWING
(E)	EXISTING
EA	EACH
EA	EXHAUST AIR
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRICAL
ENT	ENTERING
EQUIP.	EQUIPMENT
EWC	ELECTRIC WATER COOLER
F	FIRE MAIN PIPING
FC UNIT	FAN COIL UNIT
FCO	FLOOR CLEANOUT
FCV	FLOW CONTROL VALVE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FIN.FLR.	FINISH FLOOR
FLR.	FLOOR
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FEET
F.U.	FIXTURE UNIT
GA	GAUGE
GAL	GALLON
G.D.	GARBAGE DISPOSER
GPM	GALLON PER MINUTE
GV	GATE VALVE
H	HIGH
HB	HOSE BIBB
H.C.	HANDICAP
HP	HORSEPOWER
HW	DOMESTIC HOT WATER PIPING
HWR	DOMESTIC HOT WATER RETURN PIPING
HX	HEAT EXCHANGER
HZ	HERTZ
I.E.	INVERT ELEVATION
IN	INCHES
INT.	INTEGRAL
IW	INDUSTRIAL WATER
KW	KILOWATT
LAV	LAVATORY
LBS	POUND
LVG	LEAVING
MAX	MAXIMUM THOUSAND
MBH	BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MTD.	MOUNTED
(N)	NEW
NC	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
NO	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OFD	OVERFLOW DRAINAGE PIPING
OPER.WT	OPERATING WEIGHT
OPNG	OPENING
O.S&Y	OUTSIDE STEM AND YOKE
GV	GATE VALVE
P	PUMP
PD	PRESSURE DROP
PG	PRESSURE GAUGE
PIV	POST INDICATING VALVE
PM	PROJECT MANAGER
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECT
PRV	PRESSURE REDUCING VALVE ASSEMBLY
PSI	POUNDS PER SQUARE IN.
PSIG	PSI GAUGE
QTY	QUANTITY
RAD	RETURN AIR DUCT
RD	ROOF DRAIN
R.I.&C.	ROUGH–IN & CONNECT
RL	REFRIGERANT LINE
RPPA	REDUCED PRESSURE PRINCIPLE ASSEMBLY
RPM	REVOLUTIONS PER MINUTE
S	SINK
S or W	SOIL OR WASTE PIPING
SAD	SUPPLY AIR DUCT
SD	STORM DRAIN
SL	SUCTION LINE
SP	STATIC PRESSURE
SQ.FT.	SQUARE FEET
SS	SERVICE SINK
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UR	URINAL
UTR	UP THRU ROOF
V	SANITARY VENT PIPING
V.B.	VACUUM BREAKER
VP	VACUUM PUMP
VAC	VACUUM LINE
VEL	VELOCITY
VTR	VENT THROUGH ROOF
WB	WET BULB TEMPERATURE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WG	WATER GAGE
WH	WATER HEATER
W/	WITH

GENERAL NOTES

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED 2012IBC, 2012UMC, 2012UPC , AND AUTHORITIES HAVING JURISDICTION.
2. THE CONSTRUCTION IS WORK OF COMPLEX NATURE WHICH WILL REQUIRE ACCURATE PLANNING, CAREFUL PREPARATION AND EXECUTION TO DETAIL AND CLOSE SUPERVISION BY THE CONTRACTOR WHO WILL BE REQUIRED TO DO THIS WORK IN FULL COOPERATION WITH THE OTHER TRADES.
3. THE CONTRACTOR SHALL VERIFY ALL PIPING LOCATION, SIZE, PRESSURE AND AVAILABILITY PRIOR TO START OF ANY WORK.
4. THE CONTRACTOR SHALL COORDINATE FOR CLEARANCES PRIOR TO START OF ANY WORK.
5. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR WHICH WOULD INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.
6. EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL VERIFYALL CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'S, AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURERS RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH 2012IBC, 2012UMC, 2012UPC AND AUTHORITIES HAVING JURISDICTIONS. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OR CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT THE INSTALLATIONS AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORMS TO MANUFACTURERS INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
8. ALL EQUIPMENT, MATERIAL, AND ALL CONNECTIONS THERE TO SHALL BE INSTALLED COMPLETE PER MANUFACTURERS INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
9. IF THE CONTRACTORS' USE OF SUBSTITUTE MATERIALS, EQUIPMENT OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
10. SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO FULLY COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
11. BEFORE SUBMITTING BIDS FOR THE WORK THE CONTRACTOR SHALL MAKE A THOROUGH FIELD SURVEY OF THE WORK TO DETERMINE ANY INTERFERENCES THAT MAY AFFECT THE INSTALLATION OF THE WORK.
12. THE CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR, EQUIPMENT, APPURTENANCES, AND OTHER CONTRACTUAL ITEMS REQUIRED FOR THE COMPLETE INSTALLATION OF THE PLUMBING WORK TO THE SATISFACTION OF THE OWNER AND ENGINEER.
13. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED TO COMPLETE THE MECHANICAL WORK.
14. SEISMIC NOTE: SEISMIC BRACING AND ANCHORAGE OF PIPES SHALL BE PER IBC AND SMACNA SEISMIC MANUAL, "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS".
15. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER.
16. CONTRACTOR SHALL PROVIDE ELECTRONIC COPY OF MANUALS.
17. SUBMIT AS–BUILT DRAWING MARKUP TO "AOR".
18. FOR INFORMATION PURPOSES ONLY, VERIFY THAT SUFFICIENT SPACE IS AVAILABLE FOR EQUIPMENT AND ASSOCIATED WORK PRIOR TO ORDERING EQUIPMENT. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ADJUSTMENTS TO THE EQUIPMENT AND ASSOCIATED WORK TO ACCOMMODATE EQUIPMENT PROVIDED.

DEMOLITION NOTES

1. VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BIDDING.
2. CONTRACTOR SHALL CLEAN ALL REMAINING ITEMS THAT ARE TO BE REUSED OR ARE TO REMAIN.
3. ALL EXISTING SYSTEMS INCLUDING EQUIPMENT, DUCTS, PIPES, AND OTHER ITEMS WHICH ARE NOT TO BE DEMOLISHED SHALL REMAIN IN SERVICE THROUGHOUT THE CONSTRUCTION PERIOD.
4. INFORMATION GIVEN ON THE DRAWINGS ABOUT EXISTING INSTALLATIONS HAS BEEN OBTAINED FROM THE EXISTING CONDITION, BUT CANNOT BE GUARANTEED ACCURATE IN ALL RESPECTS. VERIFY ALL SUCH INFORMATION BEFORE PROCEEDING WITH ANY NEW WORK THAT MAY BE AFFECTED. INCLUDE AS PART OF THE CONTRACT ALL WORK REQUIRED TO PRODUCE THE INDICATED RESULT. THE CONTRACTOR SHALL OBTAIN ANY "AS–BUILT" DRAWINGS DIRECTLY FROM THE OWNER.
5. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'S, AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURERS RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
6. CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, P.O.C.'S, AND AVAILABILITY OF ALL EXISTING ITEMS PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.

MECHANICAL INDEX

SPECIFIC NOTES

1. ALL PENETRATIONS THRU ROOF, WALLS, CEILING, AND FLOOR SHALL BE SEALED AIR, WATER AND SOUND TIGHT WITH PROPER MATERIALS AND METHODS. DO NOT LEAVE ANY PORTION OF THE DEMOLISHED PIPING AND ACCESSORIES IN PLACE, EXPOSED OR VISIBLE IN ANY LOCATION. PATCH AND PAINT THE SURFACE TO MATCH EXISTING CONDITION. TYPICAL FOR EVERY AND ALL PENETRATIONS.
2. SEAL ALL PIPING PENETRATIONS THRU RATED WALLS AND CEILINGS TO MAINTAIN FIREPROOF RATINGS, AS APPLICABLE.
3. INSTALL INSULATION FOR EQUIPMENT, PIPING, VALVES AND FITTINGS REQUIRING ACCESS FOR MAINTENANCE, REPAIR, OR CLEANING, IN SUCH A MANNER THAT IT CAN BE EASILY REMOVED AND REPLACED WITHOUT DAMAGE.
4. CONTRACTOR TO FIELD VERIFY & EXAMINE IF FOOT PEDESTALS AT EXISTING SINKS ARE OPERATIONAL, REPLACE ENTIRE SYSTEM INCLUDING LINKAGE AND CONNECTION TO WATER SUPPLY & FAUCETS AS REQUIRED FOR PROPER OPERATION.
5. INSPECT AND EXAMINE IF THE FUME HOODS AND ITS COMPONENTS ARE OPERATIONAL. NOTIFY UNLV PM, IF ANY REPAIR OR REPLACEMENT IS REQUIRED.
6. NEW GAS GENERATOR AND ALL RELATED PIPING WORK IS AN "ALTERNATE" WORK.

SCHEDULES

SPLIT HEAT PUMP AIR CONDITIONING UNIT SCHEDULE (2,100 FEET ELEVATION-115°F AMBIENT)

SYMBOL	SERVICE	LOCATION	MANUFACTURER & MODEL NO.	NOMINAL TONS	COOLING CAPACITY (MBH) TOTAL	COOLING CAPACITY (MBH) SENSIBLE	HEATING CAPACITY (MBH)	FAN (INDOOR/SUPPLY) CFM TOTAL	ESP (IN. W.G.)	F.L.A.	VOLT	ø	CFM OSA (MIN.)	OPER. WEIGHT (LBS.)	SYMBOL	LOCATION	MANUFACTURER MODEL NO. TYPE	RFRG.	SEER	ELECTRICAL DATA VOLT	ø	COMP. MCA	COMP. MOP	OPER. WEIGHT (LBS.)	REMARKS
FC 1	REFER TO DRAWINGS	ON WALL (INTERIOR)	LG LSN120HSV4	1	9.10	7.42	22.18	353	–	–	208–230	1	–	40	CU 1	ON WALL (EXTERIOR)	LG LSU120HSV4	R410a	21.5	208–230	1	10	15	90	SEE NOTES BELOW.
FC 2	REFER TO DRAWINGS	ON WALL (INTERIOR)	LG LSN180HSV4	1.5	14.79	12.05	18.20	622	–	–	208–230	1	–	40	CU 2	ON WALL (EXTERIOR)	LG LSU180HSV4	R410a	21.5	208–230	1	10	15	90	SEE NOTES BELOW.
FC 3	REFER TO DRAWINGS	ON WALL (INTERIOR)	LG LSN240HLV	2	18.26	14.14	38.90	706	–	–	208–230	1	–	50	CU 3	ON WALL (EXTERIOR)	LG LSU240HLV	R410a	21.0	208–230	1	23	35	140	SEE NOTES BELOW.
FC 4	REFER TO DRAWINGS	ON WALL (INTERIOR)	LG LSN360HLV	3	26.82	21.85	40	706	–	–	208–230	1	–	50	CU 4	ON WALL (EXTERIOR)	LG LSU360HLV	R410a	17.5	208–230	1	23	35	150	SEE NOTES BELOW.

NOTES:
1. PROVIDE WITH HIGH PRESSURE SWITCH.
2. PROVIDE WITH LOSS OF CHARGE/LOW PRESSURE SWITCH.
3. PROVIDE WITH CRANKCASE HEATER.
4. PROVIDE WITH LIQUID LINE SOLENOID VALVE.
5. PROVIDE WITH CONDENSATE DRAIN PACKAGE PUMP.
6. PROVIDE WITH WALL MOUNTED ROOM THERMOSTAT.
7. PROVIDE WITH FACTORY SUPPLIED DISCONNECT.
8. PROVIDE & INSTALL PER LONG–LINE APPLICATION GUIDELINE PER MFR'S REQUIREMENTS AS NECESSARY.
9. PROVIDE COMPRESSORS WITH TOTALLY ENCLOSED CONDENSER FAN MOTOR. PIPE REFRIGERANT LINES TO DX COILS PER MANUFACTURER'S INSTALLATION MANUAL AND RECOMMENDATION. PROVIDE TRAPS, INSULATION AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.
10. INSTALL CONDENSING UNIT ON EXTERIOR WALL. PROVIDE COIL GUARDS.

EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	SERVICE	LOCATION	MANUFACTURER & MODEL	REMARKS
VP 1	VACUUM PUMP PACKAGED SYSTEM	REFER TO FLOOR PLAN.	MECHANICAL ROOM	BAKER MODEL: DT40P3 DUPLEX	VARIABLE SPEED CAP.19"HG – 28.3 SCFM, MAX VACUUM 0.37 TORR, PROVIDE AND INSTALL ON INERTIA PAD. ELECTRICAL: 2.4HP, 208/230/460 VOLT, 3PHASE 60HZ TEFC TEFC MOTOR

AIR DEVICE SCHEDULE

TAG	SERVICE/ LOCATION	MANUFACTURE & MODEL NUMBER	TYPE – FACE SIZE	TYPE OF INSTALLATION	DAMPERS	SIZE NECK (IN)	SIZE MAX. CFM	MAX. N.C.	MAX. PRESS. LOSS ("WC)	REMARKS
S–1	SUPPLY AIR REGISTER SQUARE SEE PLAN	"TITUS" MODEL 272–FS	SIDEWALL	EXPOSED/ SOFFIT	YES	10X10–10"ø 12X12–12"ø 14X14–14"ø	300 400 600	15	0.1	FOUR WAY ADJUSTABLE PATTERN, SQUARE TO ROUND ADAPTER W/OBD. ALUMINUM
S–2	SUPPLY AIR REGISTER HIGH VOLUME LOW VELOCITY	"TITUS" MODEL RADIATEC	SQUARE NECK	GYPSUM	YES	24"X48"–10"ø	400 500	15	0.1	TWO WAY ADJUSTABLE PATTERN,
R–1	RETURN AIR REGISTER SQUARE SEE PLAN	"TITUS" MODEL 8F	SQUARE NECK	GYPSUM	NO	12x 6 18X10 30x 8 24X12	200 300 600 750			
R–2	RETURN AIR REGISTER GENERAL, SEE PLAN	"TITUS" "350FL"	SIDEWALL	GYPSUM	NO	12x 6 18X10 30x 8 24X12	200 300 600 750	30	0.02	¾" SPACING–35 DEGREE DEFLECTION. PAINT PER ARCH. FINISH SCHEDULE.

NOTES:
1. INSIDE PORTION OF THE DIFFUSERS AND REGISTERS/GRILLES THAT ARE VISIBLE SHALL BE PAINTED FLAT BLACK.
2. PAINT DIFFUSER PER ARCHITECTURAL DRAWINGS TO MATCH THE CEILING PAINT. REFER TO ARCHITECT FOR CLARIFICATION.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	F.U. W	F.U. CW	MIN. BRANCH SIZE (INCH) W	V	CW	HW	TW	TRAP SIZE (INCH)	LV	REMARKS
EW–1	EYEWASH	2	.75 / .5	*	–	½	–	–	–		* DRAIN INTO SINK.
S–1	SINK	2	1	1½	1½	½	½	–	1½		* DRAIN INTO SINK.
S–2	SINK	2	1	1½	1½	½	½	–	1½		* DRAIN INTO SINK.
EWC–1	ELECTRICAL WATER COOLER	.75 / .5	2	1½	1½	½	–	–	1¼ X 1½		* WALLMOUNTED
T–1	TURRET "VACUUM"	–	–	–	–	–	–		–	1	* DECK MOUNTED (INDEX LV)

PLUMBING FIXTURE SPECIFICATION

EMERGENCY EYEWASH (MARK EW–1):
BRADLEY DECK MOUNTED AND SWING ACTIVATED EYEWASH MODEL NO. S19–270C WITH CHROME–PLATED BRASS PIPE AND FITTINGS.

SINK (MARK S–1):
"BY OTHERS", SEE SECTION 12 36 53 OF SPECIFICATIONS. PROVIDE W/CHICAGO FAUCETS (930–CP) DECK MOUNTED SINGLE HOLE HOT AND COLD WATER MIXING FAUCET W/VACUUM BREAKER.

SINK (MARK S–2)
"BY OTHERS", SEE SECTION 12 36 53 OF SPECIFICATIONS. PROVIDE FAUCETS (930–CP) DECK MOUNTED SINGLE HOLE HOT AND COLD WATER MIXING FAUCET W/VACUUM BREAKER.

ELECTRIC WATER COOLER (MARK EWC–1):
ELKAY NO. "LZS8", WALL HUNG, STAINLESS STEEL FINISH, FRONT PUSH BUTTON, DUAL LEVEL, 8GPG, 115V,325WATTS, ADA COMPLIANT.

TURRET "VACUUM" (MARK T–1):
CHICAGO FAUCETS NO. "980–VRA0909–CCP", TURRET INDEX AIR, SINGLE BALL VALVE, E7T REMOVABLE SERRATED HOSE NOZZLE, 957–003K ⅜"NPT INLET. VANDEL RESISTANT.

ENERGY COMPLIANCE REPORT

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.1 and to comply with the mandatory requirements listed in the Inspection Checklist.

Bijan Salimi - President | Bijan Salimi | May 1, 2017
Name - Title | Signature | Date

Project Title: UNLV QAL Building - Interior Renovation — Report date: 05/01/17
Data filename: K:\1_job\job_41\419dc8317_univ epa-qal renovation\admin\com check\qal_comcheck_mechanical.cck — Page 2 of 2

COMcheck Software Version 4.0.6.0

Mechanical Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: UNLV QAL Building - Interior Renovation
Location: Las Vegas, Nevada
Climate Zone: 3b
Project Type: Alteration

Construction Site:
UNLV
4505 S Maryland Pkwy
Las Vegas, NV 89154

Owner/Agent:
Joy Rineer
Simpson Coulter Studio
151 E. Warm Springs Rd.
Henderson, NV 89119
(702) 289.7868
jrineer@simpsoncoulter.com

Designer/Contractor:
Farideh Shamash
Sigma Mechanical Engineering Consultants, Inc
187 E. Warm Springs Rd.,
Las Vegas, NV 89119
702-315-4272
Farideh@sigmamec.com

Mechanical Systems List

Quantity	System Type & Description
4	FC-1 (Single Zone): Split System Heat Pump; Heating Mode: Capacity = 13 kBtu/h, Proposed Efficiency = 11.00 HSPF, Required Efficiency = 7.70 HSPF; Cooling Mode: Capacity = 8 kBtu/h, Proposed Efficiency = 21.50 SEER, Required Efficiency: 13.00 SEER; Fan System: None
2	FC-2 (Single Zone): Split System Heat Pump; Heating Mode: Capacity = 22 kBtu/h, Proposed Efficiency = 11.00 HSPF, Required Efficiency = 7.70 HSPF; Cooling Mode: Capacity = 13 kBtu/h, Proposed Efficiency = 21.50 SEER, Required Efficiency: 13.00 SEER; Fan System: None
3	FC-3 (Single Zone): Split System Heat Pump; Heating Mode: Capacity = 27 kBtu/h, Proposed Efficiency = 11.00 HSPF, Required Efficiency = 7.70 HSPF; Cooling Mode: Capacity = 15 kBtu/h, Proposed Efficiency = 21.50 SEER, Required Efficiency: 13.00 SEER; Fan System: None
3	FC-4 (Single Zone): Split System Heat Pump; Heating Mode: Capacity = 35 kBtu/h, Proposed Efficiency = 11.00 HSPF, Required Efficiency = 7.70 HSPF; Cooling Mode: Capacity = 24 kBtu/h, Proposed Efficiency = 21.50 SEER, Required Efficiency: 13.00 SEER; Fan System: None

Project Title: UNLV QAL Building - Interior Renovation — Report date: 06/07/17
Data filename: K:\1_job\job_41\419dc8317_univ epa-qal renovation\admin\com check\qal_comcheck_mechanical.cck — Page 1 of 9

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REVISIONS

NO.	DATE	DESCRIPTION
1	11/02/2017	NVSPWD REVIEW

CONSULTANT

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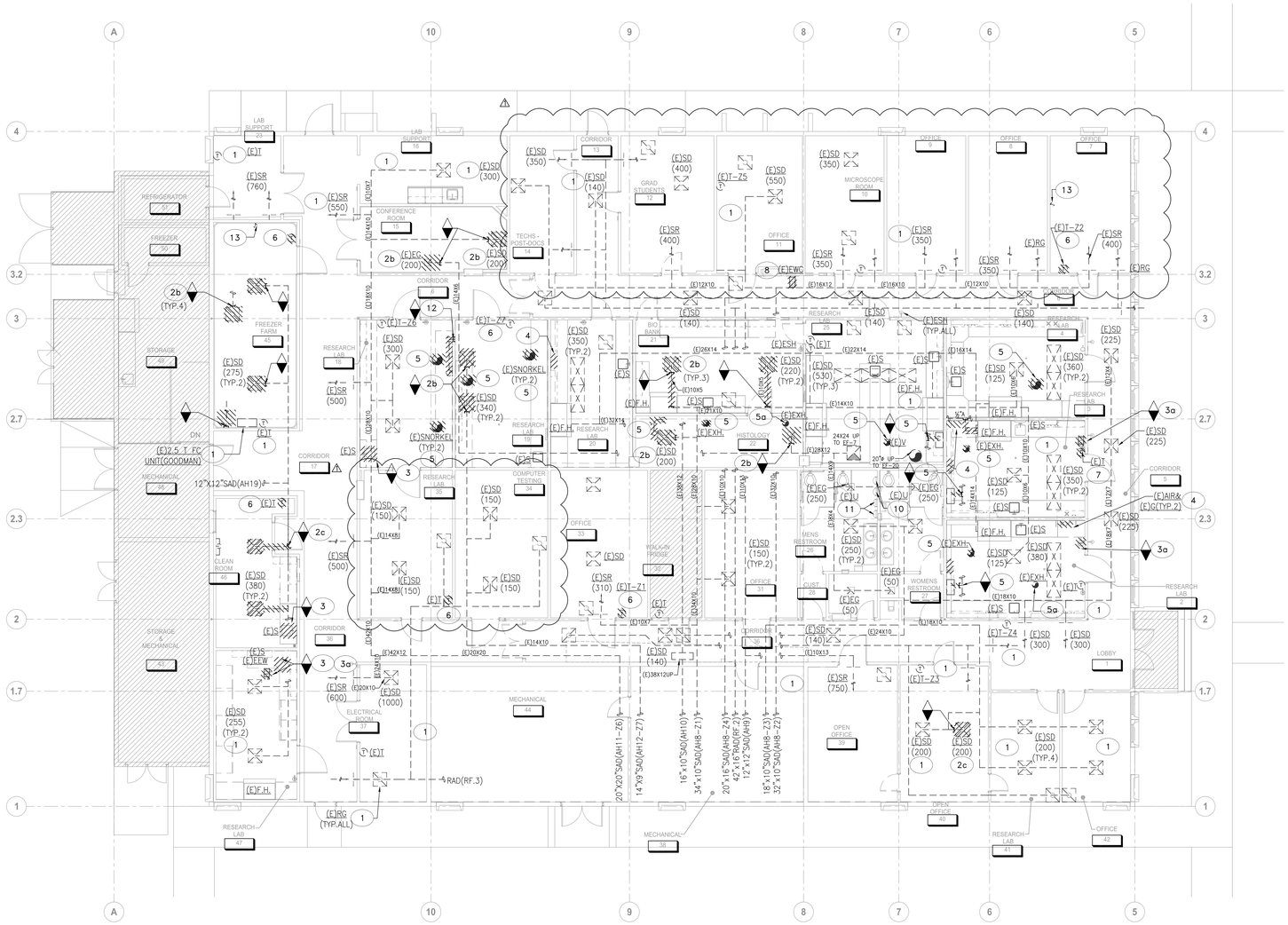
PROFESSIONAL ENGINEER – STATE OF NEVADA — MECHANICAL — BIJAN SALIMI — NO. 13897
DATE: 11/02/17
EXP. DATE: 06/30/18

OWNER: UNIVERSITY OF NEVADA LAS VEGAS

PROJECT NAME: UNLV QAL BUILDINGS - INTERIOR RENOVATION

SHEET TITLE: MECHANICAL LEGEND, NOTES, SCHEDULES AND ENERGY COMPLIANCE REPORT

DATE	11-02-2017
PROJECT NO.	SCS-1640
SUBMITTAL	BID DOCUMENTS
SHEET NO.	MG0.01



1 MECHANICAL DEMOLITION PLAN
MD1.01 UNLV QAL BUILDING

SCALE: 1/8" =1'-0"

NORTH

GENERAL DEMOLITION NOTES:

A. ALL EXISTING EQUIPMENT, DUCTWORK, REGISTERS, DIFFUSERS, ETC. SHOWN IN THIS PLAN, SHALL REMAIN UNLESS NOTED OTHERWISE. ALL SIZES AND AIRFLOW (CFM) INDICATED ARE EXISTING.

B. CLEAN, PAINT AND RE-INSTALL CEILING DIFFUSERS, GRILLS, AND WALL REGISTERS, WITHIN THE AREA OF THE WORK FOR THIS PROJECT.

C. COORDINATE ALL FC UNIT INSTALLATION WITH EXISTING STRUCTURE, LIGHTS AND FIRE SPRINKLERS TO AVOID/MINIMIZE MODIFICATIONS IN THE EXISTING SYSTEM.

MECHANICAL DEMOLITION NOTES:

1. EXISTING EQUIPMENT,DUCTWORK,REGISTERS, DIFFUSERS,THERMOSTATS TO REMAIN EXCEPT AS NOTED, TYP. ALL.

2a. DISCONNECT AND COMPLETELY REMOVE (E)SD,(E)EG AND (E)RG, ON WALL. CAP DUCTWORK BEHIND WALL. PATCH WALL TO MATCH EXISTING. REFER ARCH.DRAWINGS FOR MORE DETAILS.

2b. DISCONNECT AND COMPLETELY REMOVE (E)SD,(E)EG AND (E)RG, IN CEILING. CAP DUCTWORK ABOVE CEILING.PATCH CEILING TO MATCH EXISTING. REFER ARCH.DRAWINGS FOR MORE DETAILS.

2c. DISCONNECT AND SALVAGE (E)SD. FOR RELOCATION SEE M1.01

3. DISCONNECT AND COMPLETELY REMOVE (E)SINK WITH ALL ACCESSORIES. DISPOSE OFF APPROPRIATELY. CAP (E)CW,(E)HW,(E)W AND (E)VENT PIPING IN WALL.

3a. DISCONNECT AND REMOVE (E)EEW.

4. DISCONNECT AND REMOVE EXISTING AIR AND GAS TURRETS WITH PIPING. CAP AT MAIN. PATCH WALL TO MATCH EXISTING. SEE ARCH.DWGS FOR DETALS.

5. DISCONNECT AND COMPLETELY REMOVE EXISTING FLAMMABLE EXHAUST. PATCH THE CEILING TO MATCH EXISTING. SEE ARCH. DRAWINGS FOR MORE DETAILS.

5a. MAKE (E)FLAMMABLE EXHAUST DUCT READY FOR CONNECTION TO FLAMMABLE STORAGE CABINET. SEE M1.02 FOR NEW CONNECTION.

6. DISCONNECT AND SALVAGE (E)THERMOSTAT. REFER SHEET M1.01 FOR INSTALLATION DETAILS.

7. DISCONNECT AND COMPLETELY REMOVE (E)THERMOSTAT. MAKE READY FOR INSTALLATION OF NEW.

8. DISCONNECT AND COMPLETELY REMOVE (E)EWC WITH ALL PIPING AND ACCESSORIES. MAKE READY FOR INSTALLATION NEW EWC. FOR INSTALLATION DETAILS SEE M1.01.

9. DISCONNECT AND RELOCATE PIPING ON THE WALL TO MECHANICAL ROOM NO 43. PATCH THE WALL TO MATCH EXISTING.

10. DISCONNECT AND SALVAGE EXISTING URINAL. STORE AND PROTECT DURING CONSTRUCTION. MAKE READY FOR REINSTALLATION.

11. DISCONNECT AND REMOVE EXISTING URINALS(TYP.2). CAP (E)CW,WASTE AND VENT BEHIND WALL. REFER TO ARCH. DWGS FOR ADDITIONAL INFORMATION.

12. DISCONNECT AND REMOVE EXISTING AIR REGULATOR AND FILTER WITH ALL SUPPORTS AND ACCESSORIES. CAP ABOVE CEILING.

13. EXISTING PLUMBING PIPING CAP AT WALL.

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1	11/02/2017	NVSPWD REVIEW

CONSULTANT

Sigma Mechanical Engineering Consultants
187 E. Warm Springs Road, Suite A
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PROFESSIONAL ENGINEER - STATE OF NEVADA
MECHANICAL
NO. 13897

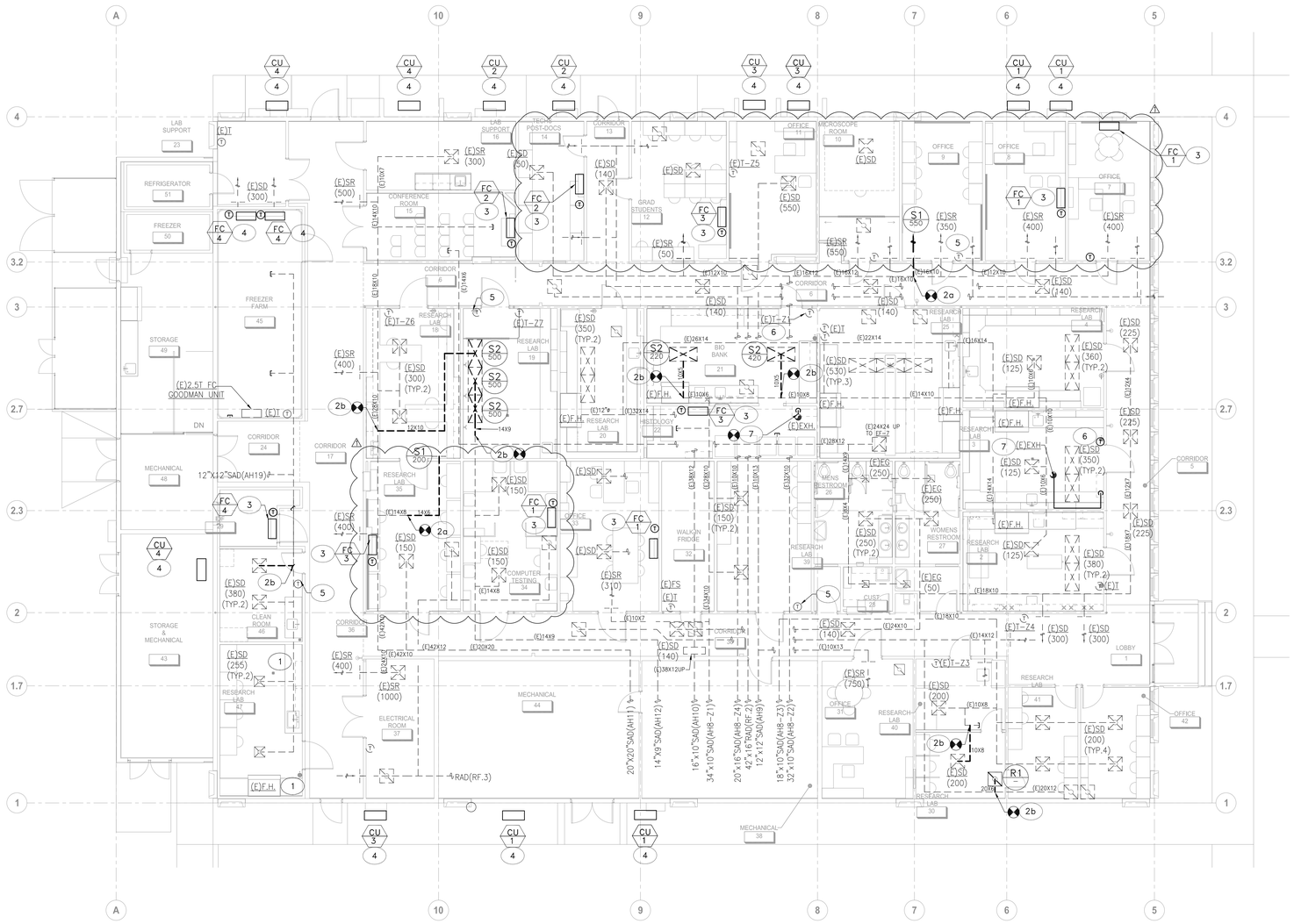
DATE: 11/02/17
EXP. DATE: 06/30/18

OWNER: UNIVERSITY OF NEVADA LAS VEGAS

PROJECT NAME: UNLV QAL BUILDINGS - INTERIOR RENOVATION

SHEET TITLE: MECHANICAL DEMOLITION PLAN

DATE	11-02-2017
PROJECT NO.	SCS-1640
SUBMITTAL	BID DOCUMENTS
SHEET NO.	MD1.01



1 M1.01 MECHANICAL FLOOR PLAN
UNLV QAL BUILDING

SCALE: 1/8" =1'-0"

NORTH

GENERAL NOTES:

A. ALL EXISTING EQUIPEMT,DUCTWORK,REGISTERS, DIFFUSERS, ETC. SHOWN IN THIS PLAN, SHALL REMAIN UNLESS NOTED OTHERWISE. ALL SIZES AND AIRFLOW (CFM) INDICATED ARE EXISTING.

B. CLEAN, PAINT AND RE-INSTALL CEILING DIFFUSERS, GRILLS, AND WALL REGISTERS, WITHIN THE AREA OF THE WORK FOR THIS PROJECT.

C. COORDINATE ALL FC UNIT INSTALLATION WITH EXISTING STRUCTURE, LIGHTS AND FIRE SPRINKLERS TO AVOID/MINIMIZE MODIFICATIONS IN THE EXISTING SYSTEM. INSTALL FC UNITS AS HIGH AS POSSIBLE.

D. FOR UNITS INSTALLATION DETAILS REFRE TO SPECIFICATION SECTION 01 31 32 AND SEE STRUCTURAL: 7/S2.01.

E. INSULATE ALL PIPING ON WALL (CD AND REFRIGERANT PIPING) AND CEILING. PAINT TO MATCH EXISTING PAINT.

F. INSTALL VOLUME DAMPERS ON NEW DUCTWORK AND BALANCE THE AIRFLOWS FOR ALL THE DIFFUSERS AS INDICATED IN THIS DRAWING.

F. CONTRACTOR TO FIELD VERIFY & EXAMINE IF FOOT PEDESTALS AT EXISTING SINKS ARE OPERATIONAL. REPLACE ENTIRE SYSTEM INCLUDING LINKAGE & CONNECTION TO WATER SUPPLY & FAUCETS AS REQUIRED FOR PROPER OPERATION.

G. INSPECT AND EXAMINE IF THE FUME HOODS AND ITS COMPONENTS ARE OPERATIONAL. NOTIFY UNLV PM, IF ANY REPAIR OR REPLACEMENT IS REQUIRED.

MECHANICAL NOTES:

1. EXISTING EQUIPMENT, DUCTWORK, REGISTERS, DIFFUSERS,THERMOSTATS TYP. ALL.

2a INSTALL/RELOCATE NEW/EXISTING SUPPLY DIFFUSER/GRILLS ON WALL AS SHOWN.PATH THE WALL TO MATCH EXISTING.

2b INSTALL/RELOCATE.NEW/EXISTING. SUPPLY DIFFUSER/REGISTER AND RETURN GRILLS IN THE CEILING AS SHOWN.

3 INSTALL INDOOR FAN COIL UNIT (FC) ON WALL. RUN REFRIGERANT PIPING AS SHOWN AND PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATION. RUN 3/4"CD PIPING AS SHOWN IN PIPING PLAN **M1.02.** INSTALL THERMOSTAT WHERE SHOWN.

4. INSTALL OUTDOOR UNIT(CU) ON WALL. SEE STRUCTURAL AND ARCH.DWGS FOR MOUNTING DETAIL.

5. RELOCATE THERMOSTAT AS SHOWN.

6. REPLACE THERMOSTAT WITH SIMILAR ONE AS SHOWN.

7. P.O.C FROM NEW TO (E)EXHAUST ABOVE CEILING. RUN EXHAUST DUCT ABOVE CEILING AND CONNECT TO NEW FLAMMABLE STORAGE CABINET AS SHOWN.

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PROFESSIONAL ENGINEER - STATE OF NEVADA
MECHANICAL
NO. 13897

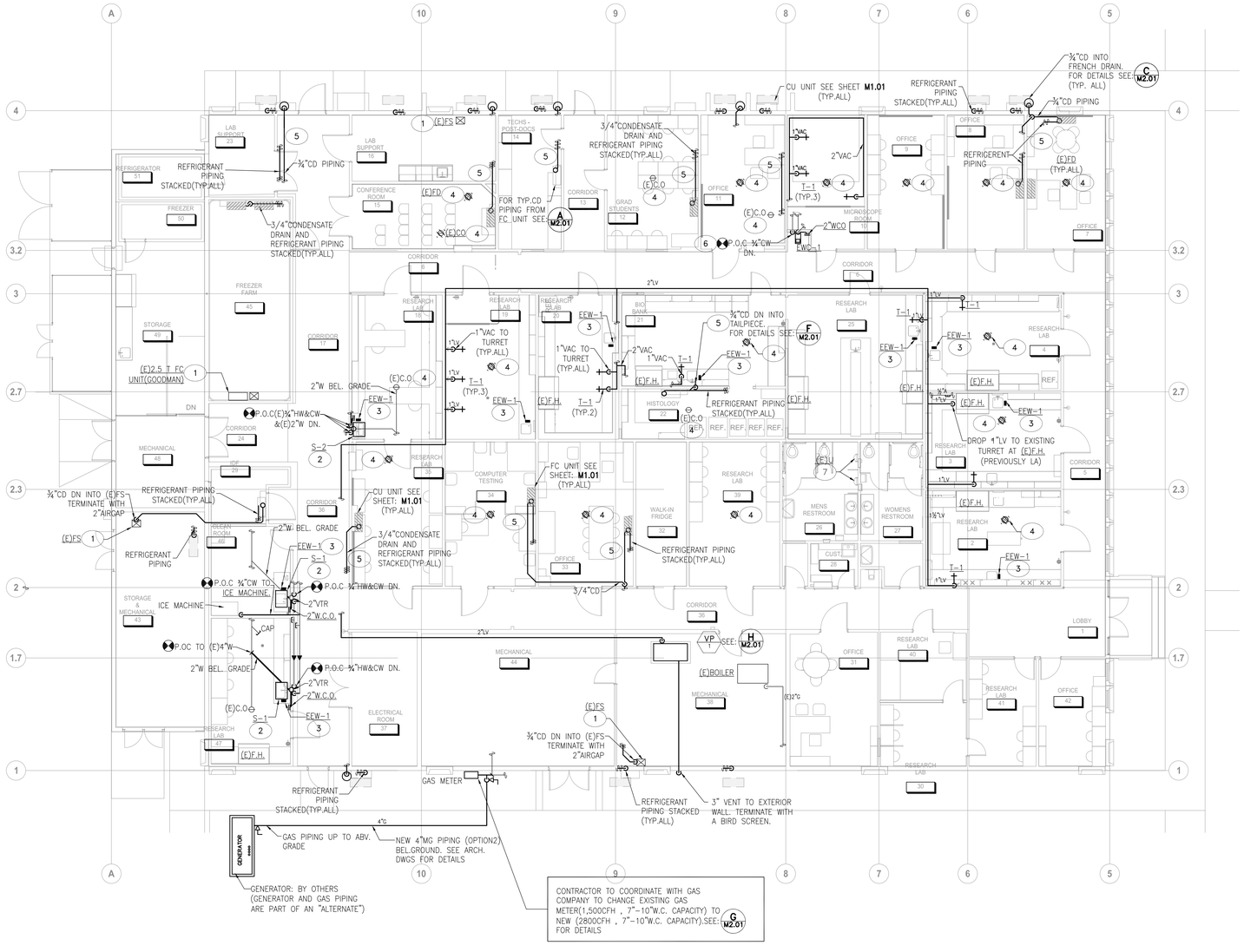
DATE: 11/02/17
EXP. DATE: 06/30/18

OWNER: UNIVERSITY OF NEVADA LAS VEGAS

PROJECT NAME: UNLV QAL BUILDINGS - INTERIOR RENOVATION

SHEET TITLE: MECHANICAL FLOOR PLAN

DATE	11-02-2017
PROJECT NO.	SCS-1640
SUBMITTAL	BID DOCUMENTS
SHEET NO.	M1.01



1 M1.02 MECHANICAL PIPING PLAN
UNLV QAL BUILDING

SCALE: 1/8" =1'-0"

NORTH

GENERAL NOTES:

A. ALL EXISTING EQUIPEMT,DUCTWORK,REGISTERS, DIFFUSERS, ETC. SHOWN IN THIS PLAN, SHALL REMAIN UNLESS NOTED OTHERWISE. ALL SIZES AND AIRFLOW (CFM) INDICATED ARE EXISTING.

B. CLEAN, PAINT AND RE-INSTALL CEILING DIFFUSERS, GRILLS, AND WALL REGISTERS, WITHIN THE AREA OF THE WORK FOR THIS PROJECT.

C. INSTALL FC INDOOR UNITS AS HIGH AS POSSIBLE.

D. INSULATE ALL PIPING (CD AND REFRIGERANT PIPING) ON WALL AND CEILING, PAINT TO MATCH EXISTING.

E. ALL PIPING ON WALL TO BE MOUNTED AS HIGH AS POSSIBLE.

MECHANICAL NOTES: (#)

1. EXISTING EQUIPMENT, DUCTWORK, REGISTERS, DIFFUSERS, TYP. ALL.
2. INSTALL NEW SINK WITH FAUCET AND CONNECT TO EXISTING CW,WASTE AND VENT PIPING IN THE WALL AS SHOWN.
3. INSTALL NEW EYEWASH AS SHOWN. RUN AND CONNECT TO EXISTING (OR NEW) CW PIPING BELOW COUNTER AT WALL.
4. INSTALL BLANK/SOLID BRASS COVER PLATE ONLY WHERE REQUIRED FOR (E)FD. SAME THICKNESS AS (E)GRID, SIMILAR TO J.R. SMITH 4171 SERIES, ALL (E)C.O AND (E)FD INSTALL FLUSH W/FLOOR AND MAKE WATER TIGHT.
5. RUN CONDENSATE DRAIN AND REFRIGERANT PIPING AS SHOWN IN THIS DRAWING. INSULATE AND PAINT EXPOSED PIPING TO MATCH EXISTING. FOR MORE INFORMATION REFER ARCH. DWGS.
6. INSTALL NEW EWC WITH ACCESSORIES AS SHOWN. CONNECT TO EXISTING CW,W,AND VENT PIPING IN THE WALL. PATCH THE WALL TO MATCH EXISTING. SEE ARCH DRAWINGS FOR INSTALLATION DETAILS.
7. RE-INSTALL (E)URINALS AS SHOWN. DISPOSE OFF APPROPRIATELY. CONNECT TO EXISTING COLD WATER, WASTE AND VENT PIPING INSIDE WALL. REFER TO ARCH. DWGS FOR INSTALLATION HEIGHT AND ADDITIONAL INFORMATION.

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PROFESSIONAL ENGINEER - STATE OF NEVADA
MECHANICAL
NO. 13897

DATE: 11/02/17
EXP. DATE: 06/30/18

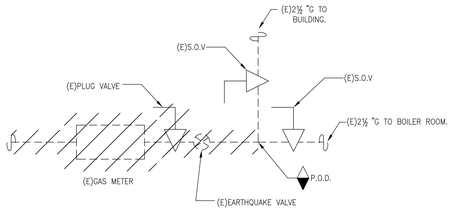
OWNER: UNIVERSITY OF NEVADA LAS VEGAS

PROJECT NAME: UNLV QAL BUILDINGS - INTERIOR RENOVATION

SHEET TITLE: MECHANICAL PIPING PLAN

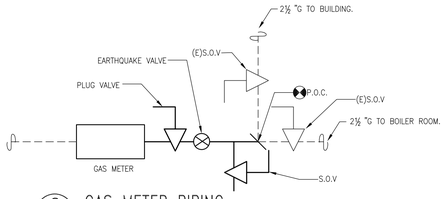
DATE	11-02-2017
PROJECT NO.	SCS-1640
SUBMITTAL	BID DOCUMENTS
SHEET NO.	M1.02

MECHANICAL DETAILS



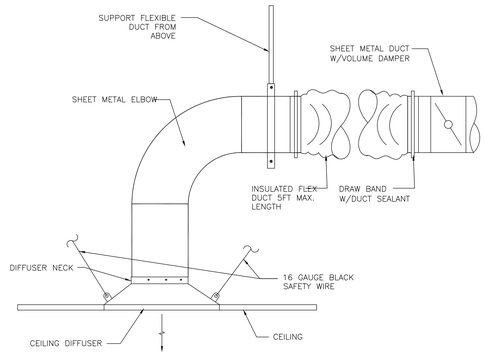
GAS METER DEMOLITION PIPING DETAIL

N.T.S.



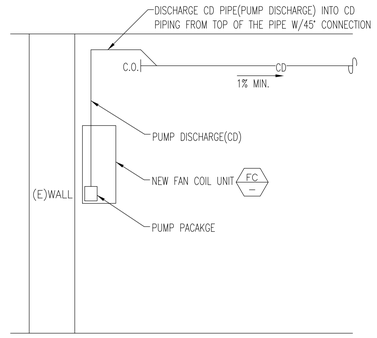
G M2.01 GAS METER PIPING DETAIL

N.T.S.



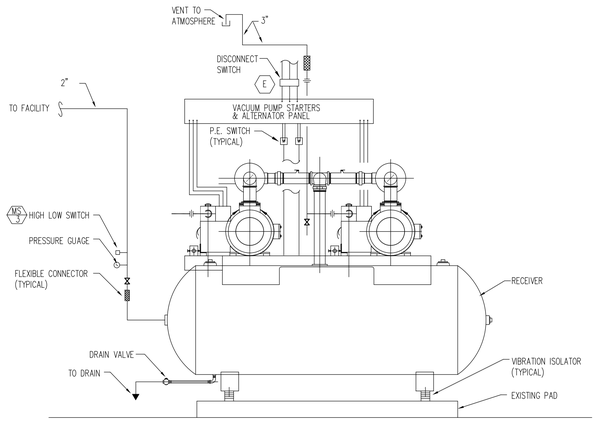
D M2.01 CEILING DIFFUSER INSTALLATION DETAIL

N.T.S.



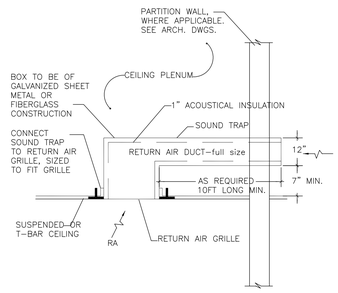
A M2.01 PUMP PACKAGE PIPING DETAIL

N.T.S.



H M2.01 VACUUM PUMP DETAIL

N.T.S.



E M2.01 RETURN AIR BOOT DETAIL

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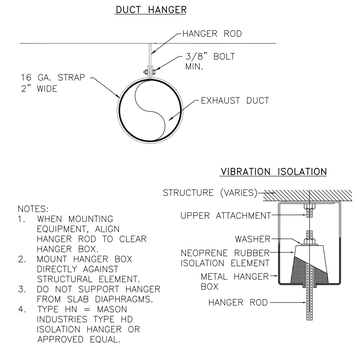
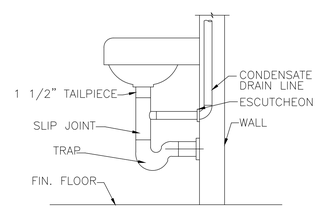


NOTES:
1. WHEN MOUNTING EQUIPMENT, ALIGN HANGER ROD TO CLEAR HANGER BOX.
2. MOUNT HANGER BOX DIRECTLY AGAINST STRUCTURAL ELEMENT.
3. DO NOT SUPPORT HANGER FROM SLAB DIAPHRAGMS.
4. TYPE HN = MASON INDUSTRIES TYPE HD ISOLATION HANGER OR APPROVED EQUAL.

B M2.01 DUCT HANGER AND VIBRATION ISOLATION DETAIL

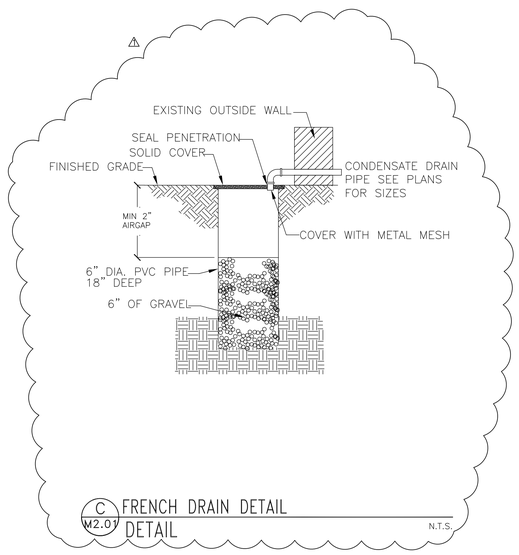
N.T.S.



NOTES:
1. INSULATE CD PIPING.

F M2.01 TAILPIECE DETAIL

N.T.S.



C M2.01 FRENCH DRAIN DETAIL

N.T.S.

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PROFESSIONAL ENGINEER–STATE OF NEVADA
MECHANICAL
NO. 13897

DATE: 11/02/17
EXP. DATE: 06/30/18

OWNER UNIVERSITY OF NEVADA LAS VEGAS

PROJECT NAME UNLV QAL BUILDINGS - INTERIOR RENOVATION

SHEET TITLE MECHANICAL DETAILS

DATE	11-02-2017
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SHEET NO.	M2.01

GENERAL ELECTRICAL NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOOK THROUGH ALL DRAWINGS ASSOCIATED WITH THIS PROJECT. WORK ASSOCIATED WITH THE ELECTRICAL CONTRACTOR'S TRADE MAY BE SHOWN ON OTHER DRAWINGS. ANY ADDITIONAL COST RESULTING FROM THE FAILURE TO INCLUDE THESE ITEMS SHOWN ON THE OTHER DRAWINGS WILL BE INCURRED BY CONTRACTOR.
2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO ALLOW OTHER METHODS AND MATERIALS NOT REFLECTED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST THE ENGINEER WAIVE THE STANDARDS TO ALLOW ALTERNATE MEANS AND METHODS PRIOR TO BEGINNING THE PROJECT. CONTRACT DOCUMENT REVISIONS TO ACCOMMODATE INSTALLED CONDITIONS, WITHOUT PRIOR APPROVAL, WILL RESULT IN ADDITIONAL DESIGN CHARGES TO THE CONTRACTOR.
3. ELECTRICAL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE NECA INSTALLATION STANDARDS TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
4. ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE CURRENTLY ADOPTED EDITION OF ALL APPLICABLE NATIONAL, STATE AND CITY CODES AND ORDINANCES.
5. ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY AS ALLOWED BY AUTHORITY HAVING JURISDICTION.
6. WHERE AN APPARENT DISCREPANCY EXISTS BETWEEN THE REQUIREMENTS OF THE GENERAL NOTES AND INFORMATION PORTRAYED IN THE ELECTRICAL DRAWINGS, THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF THE GREATER QUALITY OR QUANTITY.
7. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BID AND VERIFY EXISTING CONDITIONS.
8. CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS REQUIRED FOR PERMITS AND INSPECTIONS.
9. CONTRACTOR SHALL VERIFY, WITH OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING BID, ALLOWABLE WORKING HOURS, EMPLOYEE PARKING AREAS, MATERIAL DELIVERY, STORAGE REQUIREMENTS, DEMOLITION AND REMOVAL OF CONSTRUCTION DEBRIS, AS WELL AS DAILY CLEAN UP REQUIREMENTS. INCLUDE ALL COSTS IN BID FOR DUST BARRIERS, DUMPSTERS ETC. AS REQUIRED FOR THE DURATION OF THE PROJECT. PERFORM ALL WORK AS DIRECTED BY OWNER'S REPRESENTATIVE AND ARCHITECT.
10. ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS AT NO ADDITIONAL COST TO OWNER.
11. CONTRACTOR SHALL GUARANTEE ALL WORK AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. ALL DEFECTS SHALL BE PROMPTLY CORRECTED BY CONTRACTOR WITHOUT ADDITIONAL COST TO OWNER.
12. PROVIDE AS-BUILT DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ACCURATE CONDUIT AND DEVICE LOCATIONS DIMENSIONED FROM PERMANENT LANDMARKS SUCH AS BUILDING WALLS.
13. DO NOT SCALE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATION OF ALL DEVICES, JUNCTION BOXES, LIGHTING FIXTURES, ETC. WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ROUGH-IN. EVERY OUTLET HEIGHT SHALL BE VERIFIED ON EACH WALL WITH THE INTERIOR PLANNING AND DESIGN DRAWINGS. COORDINATE WITH CABINET SHOP DRAWINGS TO ENSURE PROPER HEIGHT AND LOCATION WITH RESPECT TO MILLWORK, EQUIPMENT, ETC.
14. THESE DRAWINGS INDICATE THE FINISHED REQUIREMENTS FOR THE ELECTRICAL SYSTEMS, EQUIPMENT, LIGHTING FIXTURES, OUTLETS AND DEVICES. DUE TO STRUCTURAL CONDITIONS, MECHANICAL DUCT, PIPING CONFLICTS, OR OTHER LEGITIMATE REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK INDICATED IN A MANNER DIFFERENT FROM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING. UPON APPROVAL, THE WORK SHALL BE PERFORMED AND THE AS-BUILT DRAWINGS SHALL BE REVISED TO ACCURATELY REFLECT THE WORK AS ACTUALLY INSTALLED.
15. ANY VARIANCE OR EXCEPTIONS OF THE DRAWINGS AND SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING BY THE ENGINEER. WHERE UNAUTHORIZED CHANGES ARE FOUND, THE CONTRACTOR SHALL REMOVE THE INSTALLED WORK AND INSTALL ITS AS SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST THE THE OWNER. COST SHALL INCLUDE ANY CUTTING , PATCHING, PAINTING AND REPAIR COST TO INSTALLED CEILINGS, WALLS ETC. AS REQUIRED FOR CORRECTING THE DEFICIENCY.
16. RACEWAYS SHALL BE INSTALLED CONCEALED WHENEVER POSSIBLE. RACEWAYS INSTALLED EXPOSED (AS APPROVED BY ENGINEER IN WRITING PRIOR TO ROUGH-IN) SHALL BE ROUTED OUT OF PUBLIC VIEW AS MUCH AS POSSIBLE. RACEWAYS SHALL BE RUN PARALLEL WITH, OR AT RIGHT ANGLE TO WALLS.
17. PROVIDE UL APPROVED EXPANSION FITTINGS WHERE RACEWAYS CROSS BUILDING EXPANSION JOINTS. PROVIDE BONDING JUMPER(S) SIZED PER CODE WHERE REQUIRED. PROVIDE ALL FITTINGS REQUIRED FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATION(S).
18. CONTRACTOR SHALL PROVIDE ALL RACEWAY SYSTEMS INDICATED ON THE DRAWING PER NEC REQUIREMENTS AND GENERAL NOTES. ANY DEVIATION FROM THE WIRING METHODS INDICATED SHALL BE ALLOWED ONLY BY SPECIFIC WRITTEN APPROVAL FROM EITHER THE ARCHITECT, ENGINEER OR OWNER. CONTRACTOR'S BID SHALL INCLUDE ALL COSTS FOR RACEWAY SYSTEMS AS SPECIFIED UNLESS SPECIFIC WRITTEN APPROVAL FOR AN ALTERNATIVE WIRING METHOD IS OBTAINED FROM EITHER THE ARCHITECT, ENGINEER OR OWNER AND IS SUBMITTED AS PART OF CONTRACTOR'S FORMAL BID PROPOSAL.
19. PRIOR TO INSTALLATION, CONTRACTOR SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR CONFLICTS WITH OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICT DURING INSTALLATION. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS IN EQUIPMENT LOCATION AND ROUTING AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
20. CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY CUT AND PATCH EXISTING CONSTRUCTION AS REQUIRED TO INSTALL NEW ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS THE EXISTING WORK AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT.
21. ALL ELECTRICAL EQUIPMENT SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE QUANTITY AND SIZE OF CONDUCTORS REQUIRED. CONTRACTORS SHALL PROVIDE EQUIPMENT WITH OVERSIZED ENCLOSURES WHERE REQUIRED.
22. COORDINATE ELECTRICAL REQUIREMENTS FOR ALL PLUMBING AND MECHANICAL EQUIPMENT WITH FINAL CONTRACTOR SELECTION. THE CONTRACTOR SHALL SIZE DISCONNECTS BASED UPON CIRCUIT BREAKER RATINGS AND PROVIDE FUSING AS REQUIRED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS AND U.L. LISTING REQUIREMENT
23. SIZING OF MOTOR-RELATED ELECTRICAL COMPONENTS, INCLUDING FEEDER AND/ OR BRANCH CIRCUITS (WIRE AND CONDUIT) AND OVERCURRENT PROTECTION (BREAKER AND/ OR FUSES) IS BASED ON RATINGS INDICATED IN THE CONTRACT DOCUMENTS AS WELL AS NEC APPROXIMATED LOADS FOR A GIVEN MOTOR HORSEPOWER, VOLTAGE AND PHASE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL MOTOR AND APPLIANCE RATING AND LOADS. CONTRACTOR TO PROVIDE CORRECTLY SIZED MOTOR OVERLOAD ELECTRICAL COMPONENTS BASED ON NAMEPLATE RATING. REFLECT ALL CHANGES IN THE AS-BUILT DRAWINGS.
24. THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN, SHALL VERIFY ALL HVAC AMPERAGES, PHASES AND VOLTAGES AGAINST PLAN REQUIREMENTS AND NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES. FAILURE TO VERIFY AND NOTIFY ENGINNER/ARCHITECT PRIOR TO ROUGH-IN SHALL RESULT IN THE ELECTRICAL CONTRACTOR ASSUMING RESPONSIBILITY FOR DESIGN AND INSTALLATION REQUIREMENTS.
25. THE ELECTRICAL CONTRACTOR SHALL INSURE FINAL COORDINATION OF THE MANUFACTURERS RECOMMENDED FUSE SIZES FOR THE INSTALLED MECHANICAL EQUIPMENT WITH THE SIZE DISCONNECT PRIOR TO OR DURING ROUGH-IN. ADVISE ENGINEER IF CHANGES IN THE FINAL SELECTION OF MECHANICAL EQUIPMENT HAVE IMPACTED DISCONNECT SWITCH, BREAKER, OR CONDUCTOR SIZES.
26. CONTRACTOR SHALL ENGAGE THE SERVICES FOR A STATE LICENSED FIRE ALARM MANUFACTURER/INSTALLER TO PREPARE ALL DESIGN DRAWINGS AND CALCULATIONS REQUIRED FOR SYSTEM APPROVAL BY THE AUTHORITY HAVING JURISDICTION. SUBMIT ALL PLANS AND PROVIDE ALL PERMITS REQUIRED FOR A COMPLETE AND OPERABLE APPROVED LIFE SAFETY SYSTEM.
27. ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DIAGRAMS THAT CONFORM TO UL LISTING FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS".
28. WHERE MOTORS ARE INSTALLED IN SUSPENDED CEILINGS, CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH IN SUSPENDED CEILING WITHIN REACH FROM ACCESS POINT.
29. VERIFY DEVICE COLOR AND MOUNTING ORIENTATION (VERTICAL OR HORIZONTAL) WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS PRIOR TO ORDERING ANY EQUIPMENT AND PROVIDE DEVICES AS REQUIRED. UNLESS NOTED OTHERWISE, DEVICES AND DEVICE PLATES SHALL BE WHITE IN COLOR.
30. PROVIDE TYPED UPDATED PANEL DIRECTORY TO BE MOUNTED ON INSIDE OF ALL PANEL DOOR COVERS. DIRECTORY SHALL REFLECT ALL ADDITIONS OR MODIFICATIONS TO EXISTING PANELS AND SHALL REFLECT ACTUAL "AS-BUILT" CONDITIONS.
31. ALL NEW PANELBOARDS AND SWITCHBOARDS SHALL BE OF THE SAME MANUFACTURER AND HAVE LOCKING DOORS AND BE KEYED THE SAME U.N.O.
32. UPON COMPLETION OF THE INSTALLATION OF LIFE SAFETY SYSTEM WIRING AND DEVICES, A PERFORMANCE TEST OF THE ENTIRE LIFE SAFETY SHALL BE PERFORMED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
33. ALL EQUIPMENT ELECTRICAL TERMINATIONS TO UNDERGO A TORQUE TEST. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MANUFACTURER'S RECOMMENDED TORQUE DOCUMENTATION AND TOOLS TO PERFORM TORQUE TEST.
34. FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HIGH CONCRETE PAD.
35. INSTALL TRANSFORMER FOLLOWING MANUFACTURER'S RECOMMENDATIONS FOR VENTILATION CLEARANCES.
36. FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
37. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, ARCHITECT AND ENGINEER AS REQUIRED SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS. REQUESTS FOR SHUTDOWNS SHALL BE SUBMITTED IN WRITING AT LEAST ONE WEEK IN ADVANCE FOR APPROVAL BY THE OWNER.
38. ALL EXPOSED RACEWAYS SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
39. THE ELECTRICAL CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY "VALUE ENGINEERING" OF THE MATERIALS, SPECIFICATIONS AND DESIGN OF THIS PROJECT, INCLUDING ANY AND ALL COST FOR ANY REVISIONS TO THE CONTRACT DOCUMENTS REQUIRED AS A RESULT IF THE "VALUE ENGINEERING".
40. PROPOSED ALTERNATE LIGHT FIXTURES SHALL BE SUBMITTED WITH A PHOTOMETRIC STUDY SHOWING COMPLIANCE WITH ALL APPLICABLE LIGHTING CODES AND ORDINANCES.
41. AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE ELECTRICAL SYSTEM SHALL BE THOROUGHLY CLEANED. REMOVE ALL FOREIGN MATERIAL, DUST, PAINT, OIL GREASE, UNNEEDED LABELS AND STICKERS FROM EQUIPMENTS. REMOVE ALL DEBRIS ACCUMULATED DURING CONSTRUCTION.

ELECTRICAL SYMBOL LEGEND

HT AFF	SYMBOL	DESCRIPTION
AS NOTED	C D	SURFACE LIGHT (TYPE DENOTED)
AS NOTED	F	WALL MOUNTED FLOODLIGHT (TYPE DENOTED)
	R	RECESSED LIGHT (TYPE DENOTED)
PER SCHED	AA	POLE MOUNTED LIGHT (TYPE DENOTED)
PER SCHED	BB	POLE MOUNTED FLOODLIGHT (TYPE DENOTED)
	G	SURFACE LINEAR LIGHT (TYPE DENOTED)
	P1 P2	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)
	H	RECESSED LINEAR LIGHT (TYPE DENOTED)
	ST1	STRIP LIGHT (TYPE DENOTED)
AS NOTED	T1 T1 TR1	TRACK AND TRACK LIGHT (TYPES DENOTED)
96"	EM	EMERGENCY BATTERY LIGHT (TYPE DENOTED)
12"*	E E	EXIT SIGN (TYPE DENOTED)
AS NOTED	● ■	LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH
AS NOTED	▨	LIGHT FIXTURE ON (EM) CRITICAL BRANCH
AS NOTED	▨	LIGHT FIXTURE ON EMERGENCY CIRCUIT
AS NOTED	● ■	LIGHT FIXTURE WITH EMERGENCY BALLAST
	L	LIGHT ON CORD REEL (TYPE DENOTED)
AS NOTED	CH3	LIGHTING CHANNEL WIRE (TYPE DENOTED)
48"	S	SINGLE POLE SW.
48"	S 2	2 POLE SINGLE THROW SW.
48"	S 3	3-WAY SW.
48"	S 4	4-WAY SW.
48"	S K	KEYED SW.
48"		SW. W/PILOT
48"		SEPARATE PILOT LIGHT
48"	S D	DIMMER SWITCH
48"	S OS	OCCUPANCY SENSOR SWITCH
48"	S MC	MOMENTARY CONTACT SWITCH
48"	S T	TIMER SWITCH
48"	S TD	TIME DELAY SWITCH
48"	S SP	FAN SPEED CONTROL
48"	S M	MOTOR HORSEPOWER RATED SWITCH
48"		PUSH BUTTON
18"		SINGLE RECEPT.
18"		DUPLEX RECEPT.
18"		SPLIT DUPLEX RECEPT.
18"		ISOLATED GROUND RECEPT (DUPLEX SHOWN)
18"		RECEPT ON EMERGENCY CKT (DUPLEX SHOWN)
18"		FOURPLEX RECEPT.
18"		FOURPLEX RECEPTACLE ON EMERGENCY CIRCUIT
18"		240 VOLT RECEPT.
		FLOOR RECEPT. (DUPLEX SHOWN)
AS NOTED	J	RECEPT ON DROP CORD (DUPLEX SHOWN)
		RECEPT ON CORD REEL (DUPLEX SHOWN)
		EQUIPMENT PLUG
	PE	PNEUMATIC/ELECTRIC SWITCH

HT AFF	SYMBOL	DESCRIPTION
18"	A	MULTIOUTLET ASSEMBLY (TYPE DENOTED)
18"	B	MULTIOUTLET ASSEMBLY (TYPE DENOTED)
	P	POWER POLE (OPEN OFFICE STYLE)
		SURGERY SERVICE COLUMN
		STATIC GROUND RECEPTACLE (TYPE DENOTED)
	◉	LIGHTNING PROTECTION AIR TERMINAL
	□	LIGHTNING PROTECTION CONDUCTOR SPLICE
	⊕	GROUND ROD (PLAN VIEW)
		GROUND CONNECTION TO STEEL OR STRUCTURE
	●	GROUND CONNECTION - EXOTHERMIC WELD
	P	UTILITY SERVICE POWER POLE (SITE)
AS NOTED		SPECIAL RECEPT. OR CONN. (SEE SCHEDULE)
	●	SPECIAL CONNECTION (SEE SCHEDULE)
AS NOTED	J J	JUNCTION BOX
	PB	PULL BOX
72"**	■	CIRCUIT BREAKER PANEL
72"**	▨	POWER OR DISTRIBUTION PANEL
72"**	▭	SPECIAL CABINET (TYPE DENOTED)
	T	TRANSFORMER (TYPE DENOTED)
	SF-1	MOTOR (SEE SCHEDULE)
72"**	⊠	MAG. MOTOR STARTER OR CONTACTOR
72"**		COMB. MOTOR STARTER (NON-FUSED)
72"**		COMB. MOTOR STARTER (FUSED)
72"**		SAFETY DISC. SW. (NON-FUSED)
72"**		SAFETY DISC. SW. (FUSED)
AS NOTED		BUS DUCT WITH PLUG UN DISCONNECT (FUSED)
	□	VARIABLE FREQUENCY DRIVE
72"**	R	RELAY
72"**		ENCLOSED CIRCUIT BREAKER
	OS IR	OCCUPANCY SENSOR - TYPE DENOTED
	LS A	LIGHT LEVEL SENSOR - TYPE DENOTED
AS NOTED	PC	PHOTOCELL
48"	TC	TIME CONTROL SWITCH (TIME SWITCH)
48"	H	HUMIDISTAT
48"	T	THERMOSTAT
PER SCHED	H1	BASEBOARD HEATER (TYPE DENOTED)
PER SCHED	H2	WALL HEATER (TYPE DENOTED)
PER SCHED	D1	HAND OR HAIR DRYER (TYPE DENOTED)
		DASHED SYMBOL INDICATES REMOVED
		LIGHT COLORED SYMBOL INDICATES EXISTING
	J	UNDERFLOOR RACEWAY SYSTEM
		CABLE TRAY (TYPE DENOTED)
		CONDUIT SLEEVE (SIZE DENOTED)
48"	S K	KEYED SW. W/PILOT
48"		START/STOP PUSH BUTTON STATION
72"**		MANUAL MOTOR STARTER
	EP	ELECTRIC/PNEUMATIC SWITCH

HT AFF	SYMBOL	DESCRIPTION
	LS	LIMIT SWITCH
PER SCHED	H3	UNIT HEATER (TYPE DENOTED)
	BS	BALANCED MAGNETIC SWITCH
		CONDUIT CONCEALED IN WALL OR OVERHEAD
		CONDUIT CONCEALED BELOW FLOOR
		CONDUIT EXPOSED
	SR	SURFACE RACEWAY
		CONDUIT TRANSITION UP
		CONDUIT TRANSITION DOWN
		CONDUIT STUBBED OUT
	LV	LOW VOLTAGE POWER WIRING
	EX	EXISTING CONDUIT
	UE	UNDERGROUND ELECTRICAL
	UHVE	UNDERGROUND HIGH VOLTAGE ELECTRICAL
	UT	UNDERGROUND TELEPHONE
	UCOM	UNDERGROUND COMMUNICATIONS
	UTV	UNDERGROUND CABLE TELEVISION (CATV OR CCTV)
	UFIBR	UNDERGROUND FIBER OPTIC
	OHE	OVERHEAD ELECTRIC
	OHT	OVERHEAD TELEPHONE
		BRANCH CIRCUIT HOME RUN
		FLEXIBLE CONDUIT OR FIXTURE WHIP
	UCP	UNDER CARPET FLAT POWER CABLE
	UCT	UNDER CARPET FLAT TELEPHONE CABLE
	UCD	UNDER CARPET FLAT DATA CABLE
	UHVE	UNDERGROUND HIGH VOLTAGE ELECTRICAL
	OHMVE	OVERHEAD MEDIUM VOLTAGE ELECTRIC
	OHHVE	OVERHEAD HIGH VOLTAGE ELECTRIC
	G	GROUND CONDUCTOR

NOT ALL SYMBOLS MAY APEAR IN THIS SET OF DRAWINGS.

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 48" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 48". DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 48".

* DISTANCE ABOVE TOP OF DOOR FRAME ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE *** DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT **** DISTANCE BELOW CEILING ***** DISTANCE TO BOTTOM OF DEVICE

ELECTRICAL SYMBOL NOTES

THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER.
THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER.
THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

A2 12b

EXAMPLE 1: LIGHTING FIXTURE TYPE "A" IS CONNECTED TO CIRCUIT 12 AND CONTROLLED BY SWITCH "b".

* P2D/I * 2aba

EXAMPLE 2: THE FIXTURE TYPE SHOWN AS A NUMERATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE THE SAME TYPE. THE CIRCUIT NUMBER AND SWITCH DESIGNATION SHOWN AS A DENOMINATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE CONNECTED TO THE SAME CIRCUIT, CONTROLLED BY THE SAME SWITCHES, CENTER/OUTBOARD MULTILEVEL SWITCHING.

E 14

EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 14.

16c

DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 16 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "c".

d

THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".

D600 e

WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: 600 WATT WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "e". SEE SPECIFICATIONS FOR WATTAGE IF NOT INDICATED.

① 1,3,5

SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. 1; 3 PHASE CONNECTION TO CIRCUITS 1, 3, 5.

SF-1 2,4,6

MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: MOTOR SF-1; 3 PHASE CONNECTION TO CIRCUITS 2, 4, 6.

7,9 H1

ELECTRIC HEATER CONNECTIONS. THE HEATER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "H". SEE THE HEATER SCHEDULE FOR ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE HEATER. EXAMPLE: ELECTRIC BASEBOARD HEATER TYPE "H1" CONNECTED TO CIRCUITS 7, 9.

T1

TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".

LPN-102

PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.

1

SPECIAL NOTE. SEE THE SPECIAL NOTES ON THAT SHEET FOR THE NOTE NUMBER INDICATED IN THE HEXAGON.

CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 # 12 CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.

#10

CONDUIT SHOWN WITH SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER SLASH MARK IN 3/4" CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT TO THE SLASH MARKS. SLASH MARK INDICATORS ARE: SHORT STRAIGHT=PHASE CONDUCTOR, LONG STRAIGHT=NEUTRAL CONDUCTOR, SHORT BENT ENDED=SWITCH LEGS, LONG STRAIGHT WITH A DOT=GROUND CONDUCTOR, CHEVRON=CATEGORY 6, HALF CHEVRON=CATEGORY 3, TWIST=SHIELDED TWISTED PAIR, CONCENTRIC CIRCLE AND DOT=COAX CABLE.

LPN-102 1,3,5

HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD LPN-102; CIRCUITS 1, 3, 5.

SYMBOL NOTATIONS: UPPER CASE LETTERS ADJACENT TO SYMBOLS INDICATE A UNIT TYPE. SEE APPROPRIATE SCHEDULE OR SPECIFICATIONS.

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	DCP	DOMESTIC WATER	HT	HEIGHT	NEMA	NATIONAL ELECTRICAL	SWBD	SWITCHBOARD
			CIRCULATING PUMP	HTG	HEATING		MANUFACTURER'S	SYM	SYMMETRICAL
A	AMPERE	DEPT	DEPARTMENT	HTR	HEATER		ASSOCIATION	SYS	SYSTEM
AC	ABOVE COUNTER OR AIR	DET	DETAIL	HV	HIGH VOLTAGE	NFDS	NON-FUSED SAFETY	TEL	TELEPHONE
	CONDITIONER	DIA	DIAMETER	HVAC	HEATING, VENTILATING AND		DISCONNECT SWITCH	TEL/DATA	TELEPHONE/DATA
ACLG	ABOVE CEILING	DISC	DISCONNECT		AIR CONDITIONING	NIC	NOT IN CONTRACT	TERM	TERMINAL
ADO	AUTOMATIC DOOR OPENER	DIST	DISTRIBUTION	HWP	HYDRONIC WATER PUMP	NL	NIGHT LIGHT	TL	TWIST LOCK
AF	AMP FRAME	DN	DOWN			N.O.	NORMALLY OPEN	TR	TAMPER RESISTANT
AFF	ABOVE FINISHED FLOOR	DPR	DAMPER	IC	INTERRUPTING CAPACITY	NPF	NORMAL POWER FACTOR	T-STAT	THERMOSTAT
AFG	ABOVE FINISHED GRADE	DS	SAFETY DISCONNECT SWITCH	IG	ISOLATED GROUND	NTS	NOT TO SCALE	TTC	TELEPHONE TERMINAL
AFI	ARC FAULT CIRCUIT	DT	DOUBLE THROW	IMC	INTERMEDIATE METAL CONDUIT				CABINET
	INTERRUPTER	DWG	DRAWING	INCAND	INCANDESCENT	OH	OVERHEAD	TV	TELEVISION
AHU	AIR HANDLING UNIT			IR	INFRARED	OL	OVERLOADS	TVTC	TELEVISION TERMINAL
AL	ALUMINUM	EC	ELECTRICAL CONTRACTOR	I/W	INTERLOCK WITH				CABINET
ALT	ALTERNATE	ELEC	ELECTRIC, ELECTRICAL			PA	PUBLIC ADDRESS	TYP	TYPICAL
AMP	AMPERE	ELEV	ELEVATOR	J-BOX	JUNCTION BOX	PB	PULL BOX OR PUSHBUTTON		
AMPL	AMPLIFIER	EM	EMERGENCY			PE	PNEUMATIC ELECTRIC	UC	UNDER COUNTER
ANNUN	ANNUNCIATOR	EMS	ENERGY MANAGEMENT SYSTEM	KV	KILOVOLT	PED	PEDESTAL	UE	UNDERGROUND ELECTRICAL
APPROX	APPROXIMATELY	EMT	ELECTRICAL METALLIC TUBING	KVA	KILOVOLT-AMPERE	PF	POWER FACTOR	UG	UNDERGROUND
AQ-STAT	AQUASTAT	EP	ELECTRIC PNEUMATIC	KVAR	KILOVOLT-AMPERE REACTIVE	PH	PHASE	UH	UNIT HEATER
ARCH	ARCHITECT, ARCHITECTURAL	EQUIP	EQUIPMENT	KW	KILOWATT	PIV	POST INDICATING VALVE	UT	UNDERGROUND TELEPHONE
AS	AMP SWITCH	EWC	ELECTRIC WATER COOLER	KWH	KILOWATT HOUR	PNL	PANEL	UTIL	UTILITY
AT	AMP TRIP	EXIST	EXISTING			PP	POWER POLE	UV	UNIT VENTILATOR OR
ATS	AUTOMATIC TRANSFER SWITCH	EXH	EXHAUST	LOC	LOCATE OR LOCATION	PR	PAIR		ULTRAVIOLET
AUTO	AUTOMATIC	EXP	EXPLOSION PROOF	LT	LIGHT	PRI	PRIMARY		
AUX	AUXILIARY			LTG	LIGHTING	PROJ	PROJECTION	V	VOLT
AV	AUDIO VISUAL	FA	FIRE ALARM	LTNG	LIGHTNING	PRV	POWER ROOF VENTILATOR	VA	VOLT-AMPERES
AWG	AMERICAN WIRE GAUGE	FABP	FIRE ALARM BOOSTER POWER	LV	LOW VOLTAGE	PT	POTENTIAL TRANSFORMER	VDT	VIDEO DISPLAY TERMINAL
			SUPPLY PANEL			PVC	POLYVINYL CHLORIDE	VERT	VERTICAL
BATT	BATTERY	FACP	FIRE ALARM CONTROL PANEL	MAX	MAXIMUM		(CONDUIT)	VFD	VARIABLE FREQUENCY DRIVE
BD	BOARD	FCU	FAN COIL UNIT	MAG.S	MAGNETIC STARTER	PWR	POWER	VOL	VOLUME
BLDG	BUILDING	FIXT	FIXTURE	M/C	MOMENTARY CONTACT				
BMS	BUILDING MANAGEMENT	FLR	FLOOR	MC	MECHANICAL CONTRACTOR	QUAN	QUANTITY	W	WATT
	SYSTEM	FLUOR	FLUORESCENT	MCB	MAIN CIRCUIT BREAKER			W/	WITH
		FU	FUSE	MCC	MOTOR CONTROL CENTER	RCPT	RECEPTACLE	WG	WIRE GUARD
C	CONDUIT	FUDS	FUSED SAFETY DISCONNECT	MDC	MAIN DISTRIBUTION CENTER	REQD	REQUIRED	WH	WATER HEATER
CAB	CABINET		SWITCH	MDP	MAIN DISTRIBUTION PANEL	RM	ROOM	W/O	WITHOUT
CAT	CATALOG			MFR	MANUFACTURER	RSC	RIGID STEEL CONDUIT	WP	WEATHERPROOF
CATV	CABLE TELEVISION	GA	GAUGE	MFS	MAIN FUSED DISCONNECT	RTU	ROOF TOP UNIT		
CB	CIRCUIT BREAKER	GAL	GALLON		SWITCH			XFMR	TRANSFORMER
CCTV	CLOSED CIRCUIT TELEVISION	GALV	GALVANIZED	MH	MANHOLE	SC	SURFACE CONDUIT	XFR	TRANSFER
CKT	CIRCUIT	GC	GENERAL CONTRACTOR	MIC	MICROPHONE	SEC	SECONDARY		
CLG	CEILING	GEN	GENERATOR	MIN	MINIMUM	SHT	SHEET		
COMB	COMBINATION	GFI	GROUND FAULT CIRCUIT	MISC	MISCELLANEOUS	SIM	SIMILAR		
CMPR	COMPRESSOR		INTERRUPTER	MLO	MAIN LUGS ONLY	S/N	SOLID NEUTRAL		
CONN	CONNECTION	GFP	GROUND FAULT PROTECTOR	MMS	MANUAL MOTOR STARTER	SPEC	SPECIFICATION		
CONST	CONSTRUCTION	GND	GROUND	MOA	MULTIOUTLET ASSEMBLY	SPKR	SPEAKER		
CONT	CONTINUATION OR	GRS	GALVANIZED RIGID STEEL	MSP	MOTOR STARTER PANELBOARD	SP	SPARE	∠	ANGLE
	CONTINUOUS		(CONDUIT)	MSBD	MAIN SWITCHBOARD	SR	SURFACE RACEWAY	@	AT
CONTR	CONTRACTOR	GYP BD	GYPSUM BOARD	MT	MOUNT	SS	STAINLESS STEEL	△	DELTA
CONV	CONVECTOR			MT.C	EMPTY CONDUIT	SSW	SELECTOR SWITCH	'	FEET
CP	CIRCULATING PUMP	HOA	HANDS-OFF-AUTOMATIC	MTS	MANUAL TRANSFER SWITCH	S/S	STOP/START PUSHBUTTONS	"	INCHES
CRT	CATHODE-RAY TUBE		SWITCH	MTR	MOTOR, MOTORIZED	STA	STATION	#	NUMBER
CT	CURRENT TRANSFORMER	HORIZ	HORIZONTAL			STD	STANDARD	Ø	PHASE
CTR	CENTER	HP	HORSEPOWER	N.C.	NORMALLY CLOSED	SURF	SURFACE MOUNTED	C	CENTER LINE
CU	COPPER	HPF	HIGH POWER FACTOR	NEC	NATIONAL ELECTRICAL CODE	SW	SWITCH	P	PLATE

ELECTRICAL SHEET INDEX

NUMBER	TITLE	AHJ COMMENTS 10/24/17	Bid Documents 11/02/2017
E0.01	GENERAL INFORMATION	X	X
E0.21	DEMOLITION LIGHTING FLOOR PLAN		X
E0.22	DEMOLITION POWER FLOOR PLAN		X
E2.11	LIGHTING FLOOR PLAN	X	X
E2.21	POWER FLOOR PLAN	X	X
E5.01	ONE LINE DIAGRAM		X
E6.01	ELECTRICAL SCHEDULES	X	X

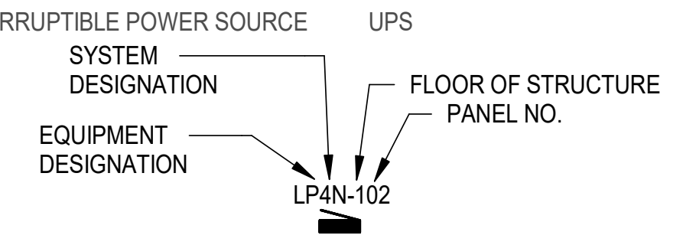
ALTERNATES

1. GENERATOR AND ALL ASSOCIATED WORK.
2. LED BULB REPLACEMENT FOR ALL EXISTING LIGHT FIXTURES.
3. FIRE ALARM WET SPRINKLER MONITORING SYSTEM.

PANELBOARD IDENTIFICATION

EQUIPMENT DESIGNATION	CODE
HIGH VOLTAGE 3Ø4W. 277/480	HP4
HIGH VOLTAGE 3Ø3W. 480	HP3
LOW VOLTAGE 3Ø4W. 120/208	LP4
LOW VOLTAGE 3Ø3W. 208	LP3
LOW VOLTAGE 1Ø3W. 120/240	LP2
LOW VOLTAGE 1Ø3W. 120/208	LP1

SYSTEMS DESIGNATION	CODE
NORMAL	N
EMERGENCY	E
POWER CONDITIONED	C
ELECTRONIC GRADE	EG
UNINTERRUPTIBLE POWER SOURCE	UPS



SPECIFIC CODE NOTES

FIRE PROTECTION REQUIREMENTS

A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
   1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
   2. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
   3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
B. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.
C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

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PROFESSIONAL ENGINEER - STATE OF NEVADA
ROGELIO ESPARZA
EXP. 12-31-18
ELECTRICAL
No. 23765
November 2, 2017

OWNE UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE **GENERAL INFORMATION**

DATE November 2, 2017

PROJECT NO. SCS-1640

SUBMITTAL Bid Documents

SHEET NO.

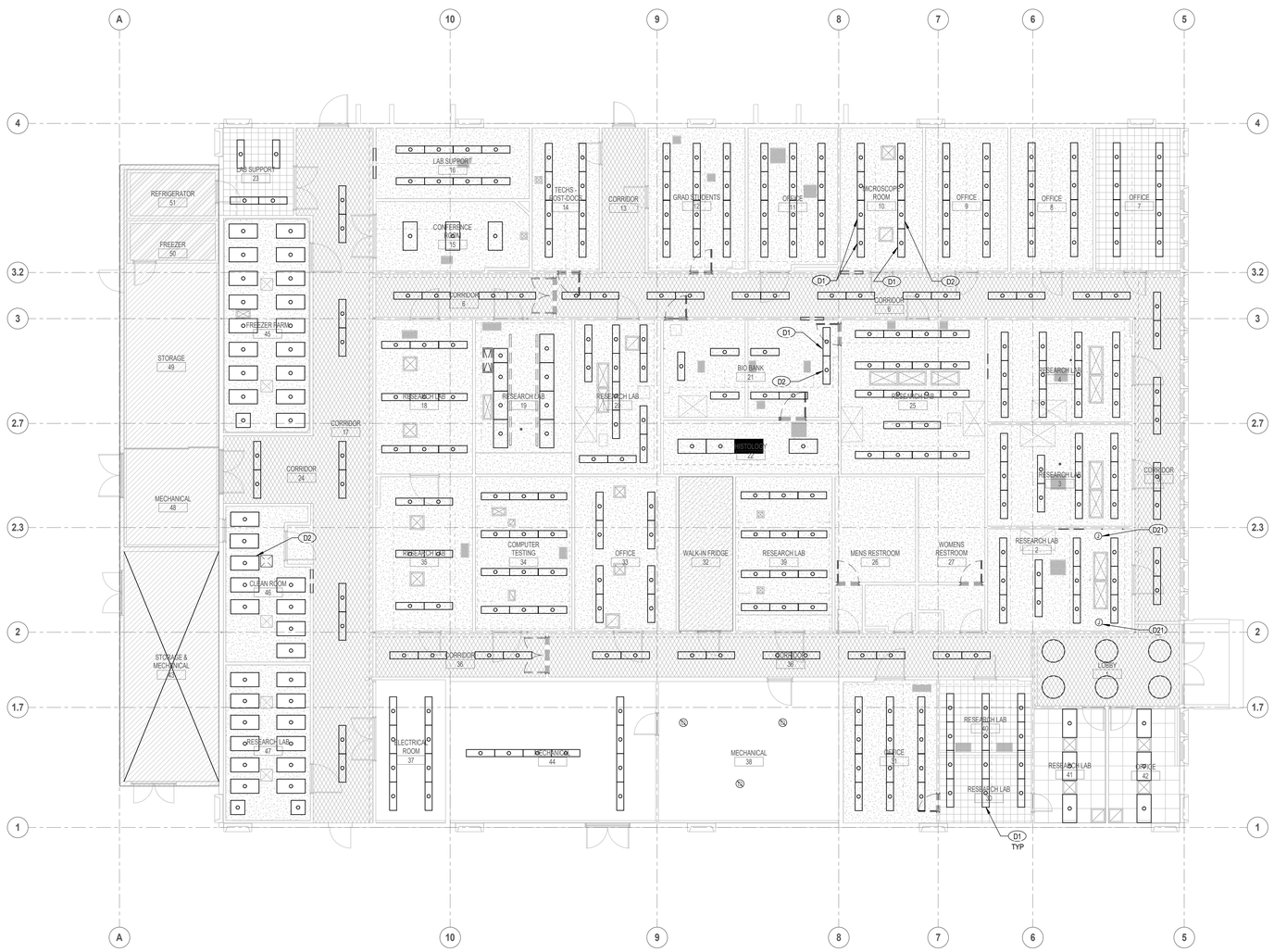
E0.01

GENERAL SHEET NOTES

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 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.

KEY NOTES

D1	RELOCATE EXISTING LIGHT.
D2	REMOVE LIGHT, CONDUIT & CONDUCTORS BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY TO DOWNSNTREAM DEVICES.
D21	REMOVE EXISTING TRACK LIGHTS, GUIDE, CONDUIT AND WIRE BACK TO SOURCE. MAINTAIN CIRCUIT CONTINUITY TO DOWNSTREAM DEVICE.



1 DEMOLITION LIGHTING FLOOR PLAN

SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

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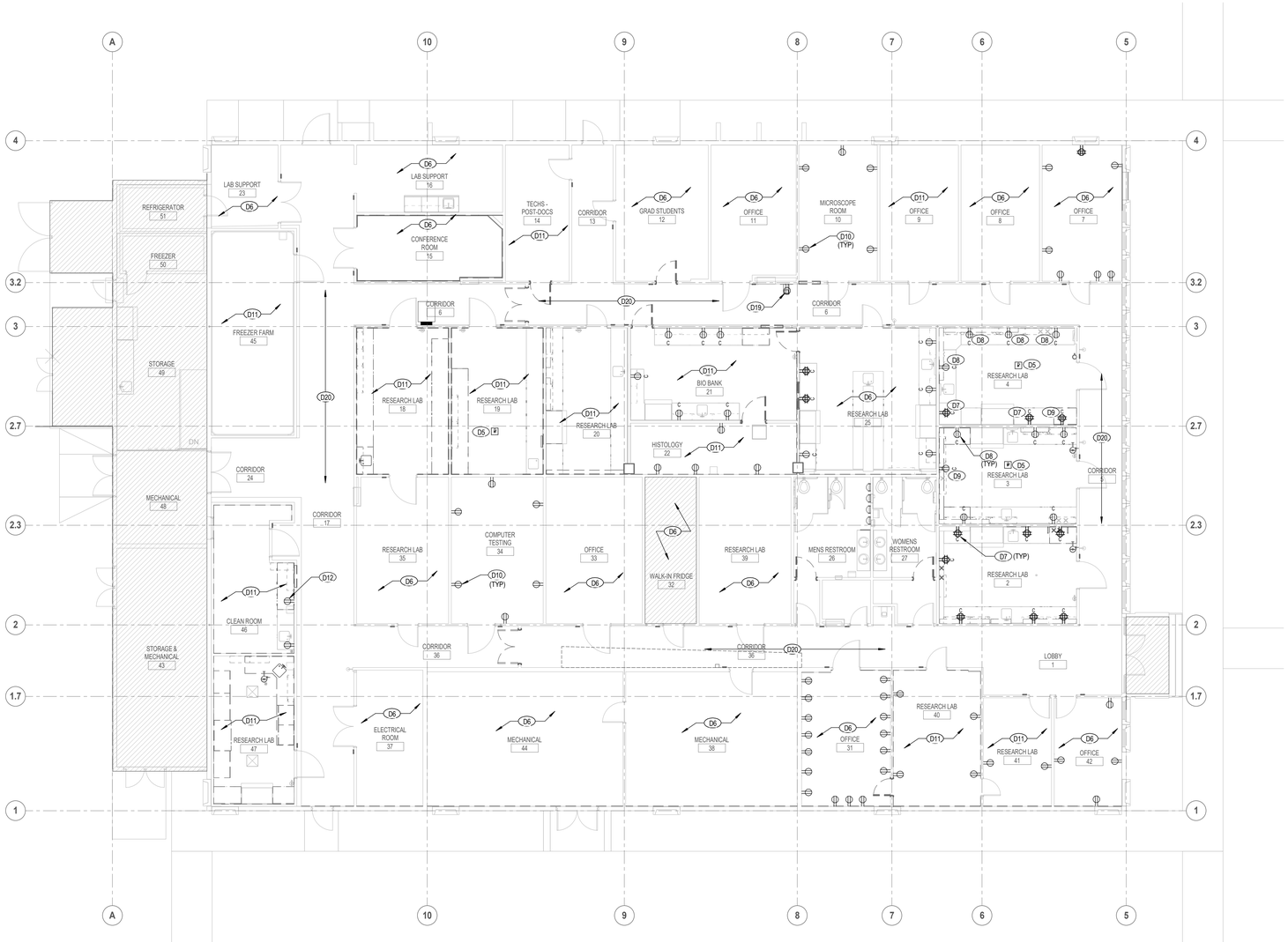
No. 23765
November 2, 2017

OWNE: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **DEMOLITION LIGHTING FLOOR PLAN**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	**E0.21**



1 DEMOLITION POWER FLOOR PLAN

SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

GENERAL SHEET NOTES

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 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.

KEY NOTES

D5	REMOVE POWER POLES. REMOVE WIRES AND PROVIDE COORDINATION TO DOWN STREAM DEVICES.
D6	EXISTING POWER TO REMAIN AS-IS IN THIS ROOM. NO DEMO UNLES NOTED OTHERWISE.
D7	EXISTING COUNTER TOP RECEPTACLES TO REMAIN AS-IS.
D8	EXISTING COUNTER TOP COMBINATION DUPLEX OUTLET AND DATA OUTLET TO REMAIN AND BE CONVERTED TO A QUAD OUTLET.
D9	EXISTING COUNTER TOP RECEPTACLE TO BE DEMOLISHED. REMOVE CONDUIT AND WIRE BACK TO NEXT ACTIVE DEVICE. MAINTAIN EXISTING CIRCUIT TO ALL DOWNSTREAM DEVICES.
D10	EXISTING BLANKED OFF OUTLET LOCATIONS. PROVIDE NEW OUTLETS AND COVERPLATES. VERIFY EXISTING CIRCUIT IS STILL ACTIVE.
D11	EXISTING SURFACE MOUNTED RECEPTACLES, CONDUIT AND WIRE TO BE REMOVED BACK TO SOURCE, IN THIS ROOM.
D12	RELOCATE EXISTING RECEPTACE AS REQUIRED FOR NEW DOOR BEING INSTALLED.
D19	RELOCATE OUTLET TO NEW WATER COOLER LOCATION.
D20	REMOVE POWER FROM ALL EXISTING MAG LOCKS OF INTERIOR DOORS, BUT LEAVE THE ASSOCIATED HARDWARE AND CONDUIT AND WIRE IN PLACE AS REQUIRED BY UNLV.

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ELECTRICAL
No. 23765
November 2, 2017

OWNE: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **DEMOLITION POWER FLOOR PLAN**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	**E0.22**

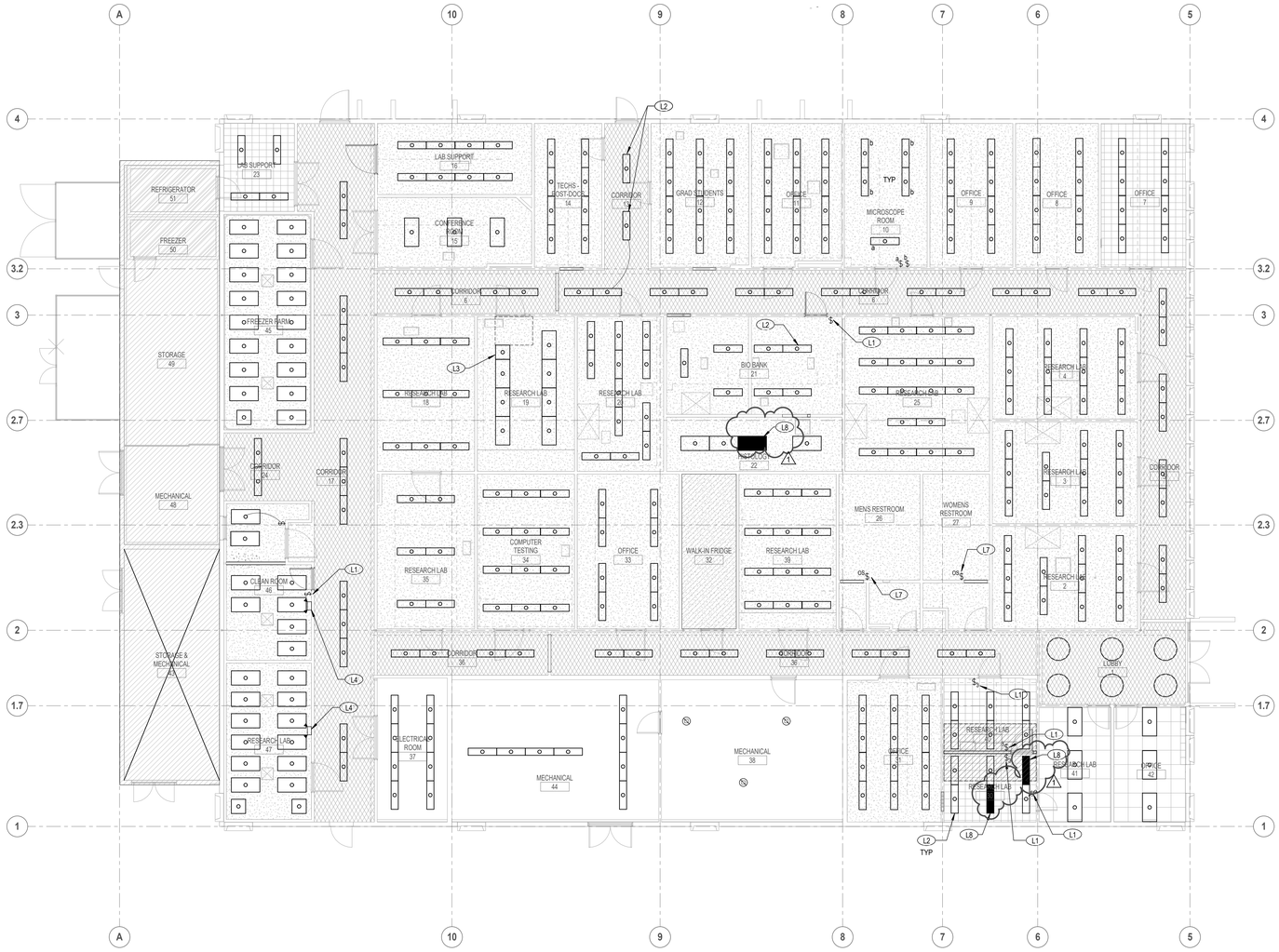
GENERAL SHEET NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR 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 BALLAST TO MAINTAIN CHARGING CIRCUIT REGARDLESS OF ON/OFF OF RELAY.
8. CONTRACTOR TO THOUROGHLY CLEAN EXISTING LIGHT FIXTURES AND RELAMP WITH 5000K 32W LAMPS.

KEY NOTES

L1	CONNECT SWITCH TO EXISTING LIGHTS SAME AREA.
L2	NEW LOCATION OF EXISTING LIGHTS TO BE RELOCATED. RECONNECT TO EXISTING CIRCUITS THIS AREA.
L3	NEW LIGHTS TO MATCH EXISTING LIGHTS THIS AREA. CONNECT LIGHTS TO EXISTING LIGHT CIRCUIT THIS AREA.
L4	RELOCATE EXISTING EMERGENCY LIGHT TO THIS LOCATION.
L7	REPLACE EXISTING SWITCH WITH NEW SWITCH AND RECONNECT TO LIGHTS THIS AREA.
L8	PROVIDE EMERGENCY BALLAST TO EXISTING LIGHT FIXTURE. BALLAST TO BE 1400 LUMENT AND 90 MINUTES BACK-UP.

BID ALTERNATIVE:
CONTRACTOR TO PROVIDE A BID ALTERNATE TO REPLACE ALL THE EXISTING LIGHT FIXTURE'S LAMPS WITH LED LAMPS IN LIEU OF REPLACING WITH 5000K 32W LAMPS.



1 LIGHTING FLOOR PLAN
SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

2012 IECC

NOTE TO PLANS EXAMINER:

PER THE 2012 IECC SECTION 101, ARTICLE 101.4.3, EXEMPTION NUMBER 7, A COMPLIANCE CERTIFICATE SHALL NOT BE PROVIDED FOR THIS PROJECT. THE REQUIREMENTS OF ARTICLE 505.2 AND RELATED SUB-SECTIONS SHALL BE IMPLEMENTED.

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OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **LIGHTING FLOOR PLAN**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	**E2.11**

GENERAL SHEET NOTES

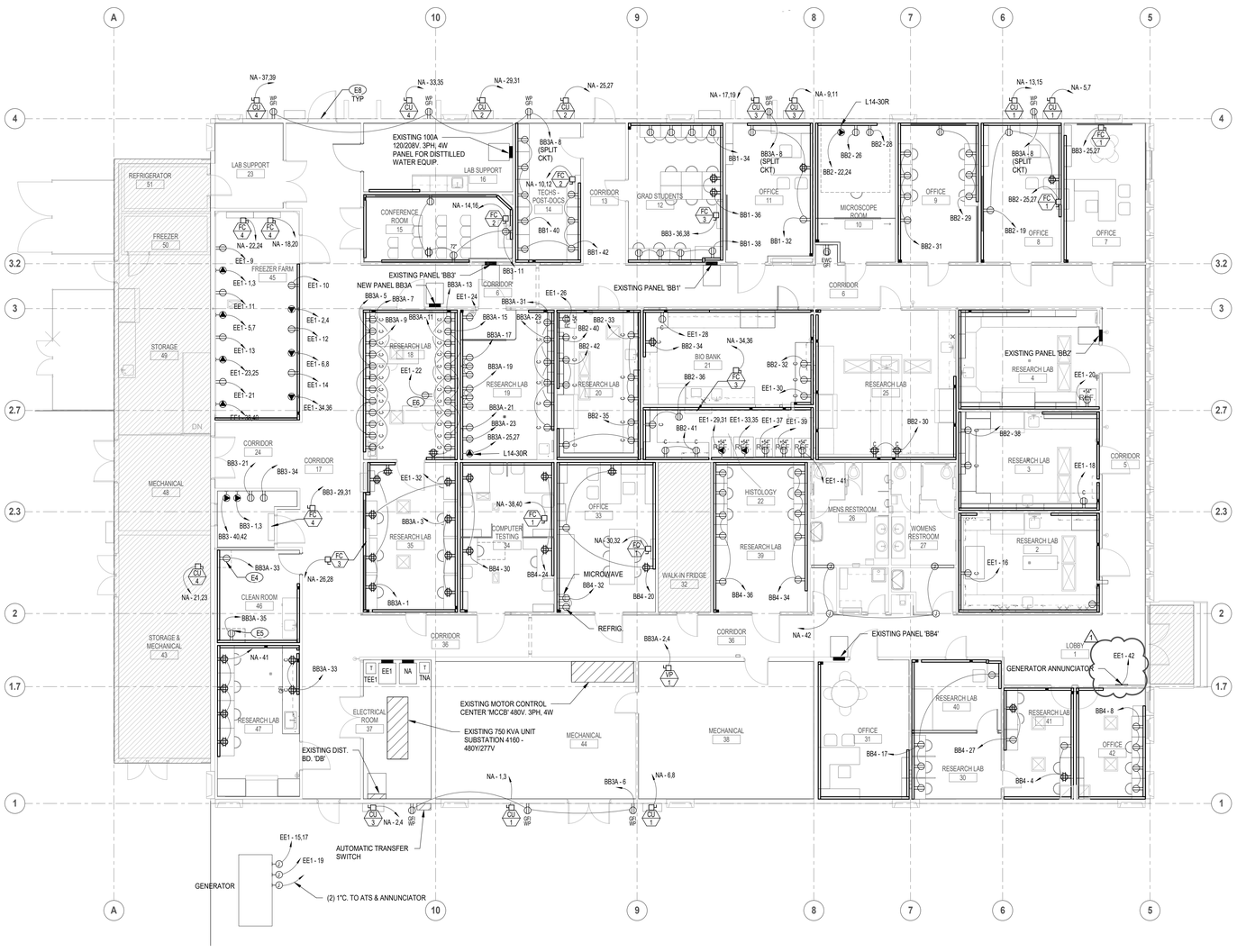
1. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT LOCATION AND REQUIREMENTS.
2. ALL RECEPTACLES AND OUTLETS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
3. VERIFY EXACT LOCATIONS OF ALL EQUIPMENT PER ARCHITECTURAL DRAWINGS.
4. ALL EXTERIOR DISCONNECTS SHALL BE NEMA-3R RATED.
5. EXTERIOR RECEPTACLES SHALL BE IN-USE WEATHER PROOF.
6. REFER TO SINGLE LINE DIAGRAM FOR FEEDER AND EQUIPMENT SIZES.

KEY NOTES

E4	PROVIDE RECEPTACLE FOR AUTOCLAVE
E5	PROVIDE RECEPTACLE FOR ICE MACHINE
E6	UNDERCOUNTER REFRIGERATION RECEPTACLE TO BE WALL MOUNTED AT 18" A.F.F.
E8	DISCONNECT & RECONNECT ALL ELECTRICAL CONNECTIONS TO ALL EXTERIOR DOORS HARDWARE. COORDINATE WITH DOOR CONTRACTOR FOR REQUIREMENTS.

WIREMOLD GENERAL NOTES

1. PROVIDE WIREMOLD G4000 DIVIDED RACEWAY FOR ALL SURFACE MOUNTED RACEWAY. PROVIDE ALL FITTINGS AND COVER PLATES AS REQUIRED FOR A COMPLETE INSTALLATION.
2. ALL NEW DATA AND POWER TO BE INSTALLED IN G4000 RACEWAY. INSTALL DATA OUTLETS IN UPPER SECTION AND POWER OUTLET IN LOWER SECTION OF RACEWAY. REFER TO DETAIL 5 ON SHEET LV 3.02.
3. WIREMOLD INSTALLED ABOVE COUNTER TOP IS TO BE MOUNTED ABOVE TOP OF BACKSPLASH. WIREMOLD NOT INSTALLED ABOVE A COUNTER IS TO BE MOUNTED AT 18" AFF.



1 POWER FLOOR PLAN

SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

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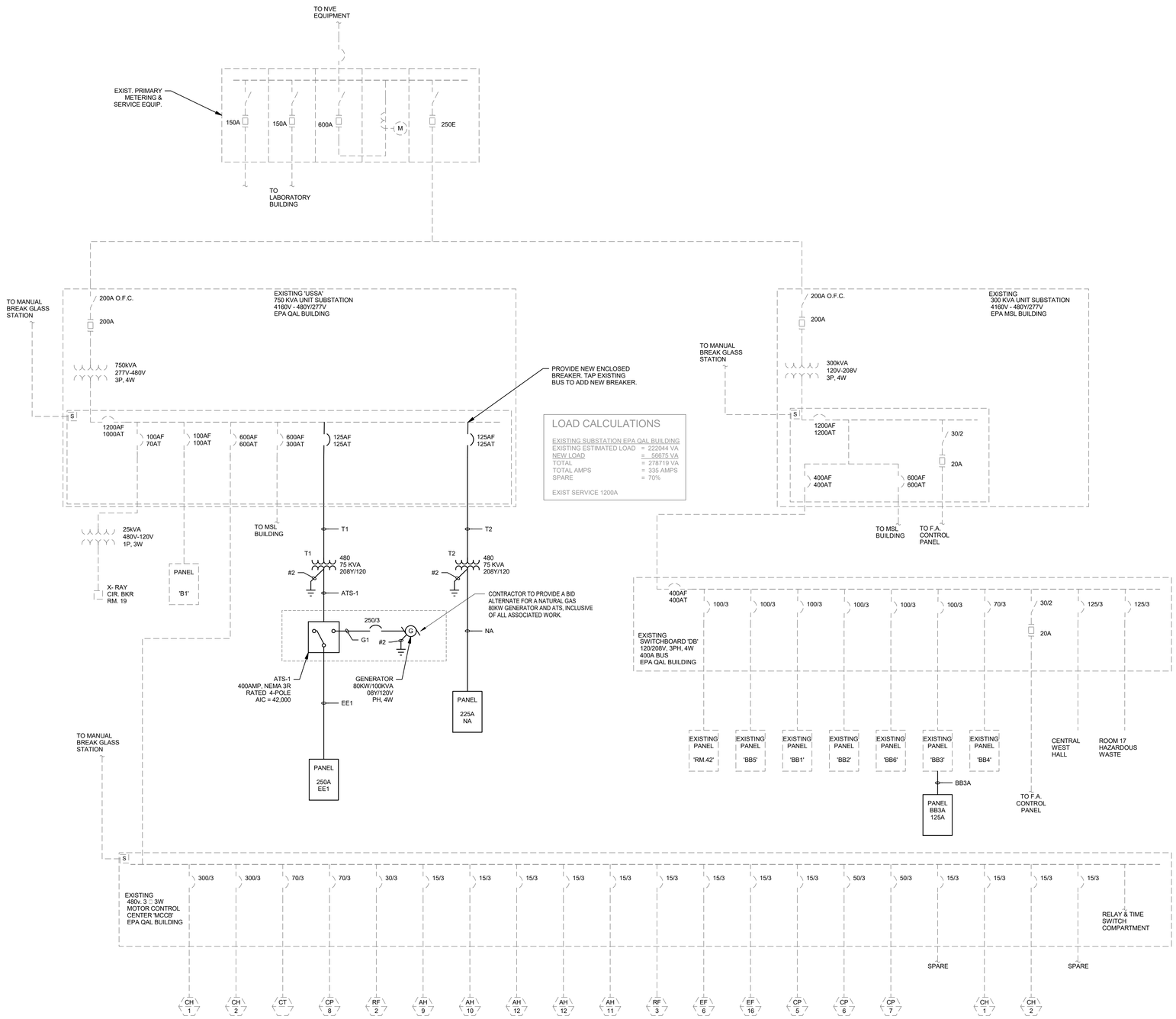
No. 23765
November 2, 2017

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **POWER FLOOR PLAN**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	**E2.21**



LOAD CALCULATIONS

EXISTING SUBSTATION EPA QAL BUILDING		
EXISTING ESTIMATED LOAD	=	222044 VA
NEW LOAD	=	56675 VA
TOTAL	=	278719 VA
TOTAL AMPS	=	335 AMPS
SPARE	=	70%

EXIST SERVICE 1200A

FEEDER SCHEDULE - DISTRIBUTION EQUIPMENT

ALL CONDUIT AND CONDUCTOR VOLTAGE DROP WAS BASED ON DESIGN ESTIMATE AND DOES NOT REFLECT FIELD CONDITIONS. CONTRACTOR TO VERIFY ALL CONDUIT/CONDUCTOR WIRE SIZES FOR VOLTAGE DROP IN THE FIELD IF LONGER THAN WHAT HAS BEEN ESTIMATED.

V17.2

FEEDER ID	DISTRIBUTION EQUIPMENT NAME	BUS AMPACITY	DISTANCE (ESTIMATE - FT)	TYPE	NUMBER OF RUNS	FEEDER SIZE	CONDUIT TYPE	VOLTAGE DROP (%)	MINIMUM AIC (AMPS) CALCULATED
ATS-1	ATS ATS-1	250	20	CU	1	4#250, 1#4, 2-1/2"C	METALLIC	0.21%	6,404
EE1	PANEL EE1	250	20	CU	1	4#250, 1#4, 2-1/2"C	METALLIC	0.21%	6,015
T2	TRANSFORMER T2	125	10	CU	1	3#1, 1#6, 1-1/2"C	METALLIC	0.07%	6,622
NA	PANEL NA	225	5	CU	1	4#4/0, 1#4, 2-1/2"C	METALLIC	0.06%	6,503
BB3A	PANEL BB3A	125	10	CU	1	4#1, 1#6, 2"C	METALLIC	0.16%	17,583
G1	ATS ATS1	250	25	CU	1	4#250, 1#4, 2-1/2"C	METALLIC	0.27%	1,951

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No. 23765
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OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **ONE LINE DIAGRAM**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	

E5.01

PANELBOARD: NA

LOCATION: ELECTRICAL ROOM 37 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA1 **A.I.C. RATING:** 10,000 AMPS SYMMETRICAL
MAIN DEVICE: 225 A MLO **SPECIAL:**
BUS AMPS: 225

LOAD DESCRIPTION	BK R	P	CKT	PHASE A		PHASE B		PHASE C		CKT	P	BK R	LOAD DESCRIPTION
CU-2	25 A	2	1	1680	2033					2	2	35 A	CU-3
			3			1680	2033			4			
CU-1	15 A	2	5					884	884	6	2	15 A	CU-1
			7	884	884					8			
CU-3	35 A	2	9			2033	46			10	2	20 A	FC-2
			11					2033	46	12			
CU-1	15 A	2	13	884	46					14	2	20 A	FC-2
			15			884	46			16			
CU-3	35 A	2	17					2033	230	18	2	20 A	FC-4
			19	2033	230					20			
CU-3	35 A	2	21			2033	230			22	2	20 A	FC-4
			23					2033	230	24			
CU-2	25 A	2	25	1680	230					26	2	20 A	FC-3
			27			1680	230			28			
CU-2	25 A	2	29					1680	46	30	2	20 A	FC-1
			31	1680	46					32			
CU-4	35 A	2	33			2033	230			34	2	20 A	FC-3
			35					2033	230	36			
CU-4	35 A	2	37	2033	46					38	2	20 A	FC-2
			39			2033	46			40			
RCPT LAB - K.CULBERT 47	20 A	1	41					1440	720	42	1	20 A	DOOR ACTUATOR
			TOTAL....	14389		15237		14337					
			TOTAL...	120 A		127 A		119 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	2160 VA	100.00%	2160 VA		
MTR	41988 VA	102.42%	43005 VA	**CONNECTED LOAD:**	43942 VA
				ESTIMATED DEMAND:	44958 VA
				CONNECTED CURRENT:	122 A
				EST. DEMAND CURRENT:	125 A

NOTES:

PANELBOARD: BB3A

LOCATION: CORRIDOR 6 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA1 **A.I.C. RATING:** 10,000 AMPS SYMMETRICAL
MAIN DEVICE: 600 A MLO **SPECIAL:**
BUS AMPS: 225

LOAD DESCRIPTION	BK R	P	CKT	A		B		C		CKT	P	BK R	LOAD DESCRIPTION
RCPT LAB - J.HYMAN 35	20 A	1	1	1440	884					2	2	20 A	VP-1 MECHANICAL 38
RCPT LAB - J.HYMAN 35	20 A	1	3			1080	884			4			
RCPT RESEARCH LAB 18	20 A	1	5					720	540	6	1	20 A	RCPT
RCPT RESEARCH LAB 18	20 A	1	7	180	900					8	1	20 A	RCPT
RCPT RESEARCH LAB 18	20 A	1	9			720	0			10	1	20 A	SPARE
RCPT RESEARCH LAB 18	20 A	1	11					1080	0	12	1	20 A	SPARE
RCPT LAB J.HYMAN 18	20 A	1	13	720	0					14	1	20 A	SPARE
RCPT RESEARCH LAB 18	20 A	1	15			720	0			16	1	20 A	SPARE
RCPT RESEARCH LAB 19	20 A	1	17					540	0	18	1	20 A	SPARE
RCPT RESEARCH LAB 19	20 A	1	19	540	0					20	1	20 A	SPARE
RCPT RESEARCH LAB 19	20 A	1	21			180	0			22	1	20 A	SPARE
RCPT RESEARCH LAB 19	20 A	1	23					180	0	24	1	20 A	SPARE
RCPT RESEARCH LAB 19	20 A	2	25	270	0					26	1	20 A	SPARE
			27			270	0			28	1	20 A	SPARE
RCPT RESEARCH LAB 19	20 A	1	29					540	0	30	1	20 A	SPARE
RCPT RESEARCH LAB 19	20 A	1	31	540	0					32	1	20 A	SPARE
RCPT LAB - K.CULBERT 47	20 A	1	33			540	0			34	1	20 A	SPARE
RCPT CLEAN ROOM 46	20 A	1	35					180	0	36	1	20 A	SPARE
SPARE	20 A	1	37	0	0					38	1	20 A	SPARE
SPARE	20 A	1	39			0	0			40	1	20 A	SPARE
SPARE	20 A	1	41					0	0	42	1	20 A	SPARE
			TOTAL....	5400		4323		3780					
			TOTAL...	46 A		37 A		32 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	11889 VA	92.09%	10940 VA		
MTR	1768 VA	125.00%	2210 VA	**CONNECTED LOAD:**	13494 VA
				ESTIMATED DEMAND:	12965 VA
				CONNECTED CURRENT:	37 A
				EST. DEMAND CURRENT:	36 A

NOTES:
EVERYTHING IN BOLD IS NEW.

PANELBOARD: BB1

LOCATION: CORRIDOR 6 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: RECESSED NEMA1 **A.I.C. RATING:** 10,000 AMPS SYMMETRICAL
MAIN DEVICE: 225 A MLO **SPECIAL:**
BUS AMPS: 225

LOAD DESCRIPTION	BK R	P	CKT	PHASE A		PHASE B		PHASE C		CKT	P	BK R	LOAD DESCRIPTION
RECEPTS ROOM 9	20 A	1	1	540	720					2	1	20 A	RECEPTS ROOM 9
RECEPTS ROOM 9	20 A	1	3			720	540			4	1	20 A	RECEPTS ROOM 9
RECEPTS ROOM 7 & 9	20 A	1	5					540	500	6	2	20 A	TWIST-LOC ROOM 25
RECEPTS ROOM 8	20 A	1	7	720	500					8			
RECEPTS ROOM 8	20 A	1	9			540	720			10	1	20 A	RECEPT FH-407 ROOM 25
RECEPTS ROOM 8	20 A	1	11					720	540	12	1	20 A	RECEPT FH-407 ROOM 25
RECEPTS ROOM 7	20 A	1	13	540	720					14	1	20 A	RECEPTS CORR. & RM 21
RECEPTS ROOM 11	20 A	1	15			720	540			16	1	20 A	EML RMS 2,4,811,12,18,19
FH-406 RECEPT ROOM 25	20 A	1	17					720	720	18	1	20 A	RECEPTS ROOM 11
RECEPT GFCI	20 A	1	19	540	720					20	1	20 A	RECEPTS ROOM 25
RECEPTS ROOM 24	20 A	1	21			720	540			22	1	20 A	EFC-402
RECEPT FH-409 ROOM 21	20 A	1	23					540	540	24	1	20 A	RECEPTS ROOM 25
RECEPTS ROOM 21 & 22	20 A	1	25	720	540					26	1	20 A	RECEPTS ROOM 10
RECEPT FH-406 ROOM 25	20 A	1	27			720	720			28	1	20 A	RECEPTS ROOM 10
EML RMS 5,10,14,20,21,25	20 A	1	29					540	720	30	1	20 A	RECEPTS ROOM 10
TWIST LOC ROOM 25	20 A	2	31	500	540					**32**	**1**	**20 A**	**RCPT OFFICE 11**
			33			500	720			**34**	**1**	**20 A**	**RCPT GRAD STUDENTS 12**
EML ROOM 9, RECEPT R...	20 A	1	35					540	720	**36**	**1**	**20 A**	**RCPT GRAD STUDENTS 12**
RECEPTS ROOM 11	20 A	1	37	720	720					**38**	**1**	**20 A**	**RCPT GRAD STUDENTS 12**
RECEPTS ROOM 11	20 A	1	39			720	720			**40**	**1**	**20 A**	**RCPT TECHS - POST-DOCS...**
RECEPTS ROOM 11	20 A	1	41					720	720	**42**	**1**	**20 A**	**RCPT TECHS - POST-DOCS...**
			TOTAL....	8631		9018		8659					
			TOTAL...	72 A		75 A		72 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	4140 VA	100.00%	4140 VA		
				CONNECTED LOAD:	26308 VA
				ESTIMATED DEMAND:	26308 VA
				CONNECTED CURRENT:	73 A
				EST. DEMAND CURRENT:	73 A

NOTES:
EVERYTHING IN BOLD IS NEW.

PANELBOARD: BB4

LOCATION: CORRIDOR 36 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: RECESSED NEMA1 **A.I.C. RATING:** 10,000 AMPS SYMMETRICAL
MAIN DEVICE: 225 A MLO **SPECIAL:**
BUS AMPS: 225

LOAD DESCRIPTION	BK R	P	CKT	A		B		C		CKT	P	BK R	LOAD DESCRIPTION
RECEPTS...	20 A	1	1	540	720					2	1	20 A	RECEPTS ROOM 35
RECEPTS ROOM 35	20 A	1	3			720	540			**4**	**1**	**20 A**	**RCPT RESEARCH LAB -...**
RECEPTS LADIES, 40, 41	20 A	1	5					540	540	6	1	20 A	RECEPTS CORR., RM 35
EX-FAN MECHANICAL ROOM	20 A	3	7	1200	720					**8**	**1**	**20 A**	**RCPT OFFICE K.CULBERT...**
			9			1200	640			10	1	20 A	EML RMS 33,34,35,39,40,41
			11					1200	540	12	1	20 A	RECEPTS CORR. & MECH...
LIGHTS CORRIDOR	20 A	1	13	360	590					14	1	20 A	LIGHTS LADIES & JAN.
RECEPT ROOM 31	**20 A**	**1**	**15**			540	720			16	1	20 A	LIGHTS, RECEPTS RM 21, 22
RCPT	**20 A**	**1**	**17**					720	340	18	1	20 A	EXTERIOR LIGHTS
RECEPTS ROOM 31	20 A	1	19	540	720					**20**	**1**	**20 A**	**RCPT OFFICE 33**
AHS 401, 403, AHR 401, 402	20 A	1	21			720	720			22	1	20 A	EML ROOM 31
AHS 401, 403, AHR 401, 402	20 A	1	23					540	720	**24**	**1**	**20 A**	**RCPT COMPUTER TESTIN...**
RECEPTS ROOM 33	20 A	1	25	540	1200					26	2	20 A	DOMESTIC HWH
RCPT RESEARCH LAB -...	**20 A**	**1**	**27**			540	1200			28			
RECEPTS ROOM 33	20 A	1	29					720	720	**30**	**1**	**20 A**	**RCPT COMPUTER TESTIN...**
RECEPTS ROOM 34	20 A	1	31	540	3000					**32**	**1**	**20 A**	**MICROWAVE**
RECEPTS ROOM 34	20 A	1	33			540	900			**34**	**1**	**20 A**	**RCPT OFFICE - C.KEARNY...**
RECEPTS ROOM 34	20 A	1	35					720	900	**36**	**1**	**20 A**	**RCPT OFFICE - C.KEARNY...**
MAIN BREAKER	50 A	3	37	0	1200					38	1	20 A	BOILER
			39			0	340			40	1	20 A	LIGHTS MECHANICAL ROOM
			41					0	540	42	1	20 A	RECEPTS CORRIDOR
			TOTAL....	11589		9163		8539					
			TOTAL...	97 A		77 A		71 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	9480 VA	100.00%	9480 VA		
				CONNECTED LOAD:	29275 VA
				ESTIMATED DEMAND:	29275 VA
				CONNECTED CURRENT:	81 A
				EST. DEMAND CURRENT:	81 A

NOTES:
EVERYTHING IN BOLD IS NEW.

PANELBOARD: BB2

LOCATION: RESEARCH LAB 4 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: RECESSED NEMA1 **A.I.C. RATING:** 10,000 AMPS SYMMETRICAL
MAIN DEVICE: 225 A MLO **SPECIAL:**
BUS AMPS: 225

LOAD DESCRIPTION	BK R	P	CKT	PHASE A		PHASE B		PHASE C		CKT	P	BK R	LOAD DESCRIPTION
RECEPT GFI ROOM 4	20 A	1	1	540	720					2	1	20 A	RECEPT GFI ROOM 4
RECEPT GFI ROOM 4	20 A	1	3			720	540			4	1	20 A	RECEPT ROOM 4
RECEPT GFI ROOM 4	20 A	1	5					540	540	6	1	20 A	RECEPT FH-403 ROOM 4
RECEPT ROOM 3	20 A	1	7	720	540					8	1	20 A	RECEPT ROOM 3
RECEPT ROOM 3	20 A	1	9			720	720			10	1	20 A	RECEPT ROOM 3
RECEPT ROOM 3	20 A	1	11					540	540	12	1	20 A	RECEPT ROOM 3
RECEPT ROOM 2	20 A	1	13	540	720					14	1	20 A	RECEPT ROOM 2
RECEPT ROOM 2	20 A	1	15			540	540			16	1	20 A	RECEPT ROOM 2
RECEPT ROOM 2	20 A	1	17					720	540	18	1	20 A	RECEPT ROOM 2
RCPT OFFICE 8	20 A	1	19	720	720					20	1	20 A	RECEPT ROOM 3, 4 & CORR.
RECEPT FH-402 & LIGHT...	20 A	1	21			720	156			**22**	**2**	**20 A**	**RCPT MICROSCOPE ROOM 10**
RECEPT FH-401 & LIGHT...	20 A	1	23					720	156	**24**			
FC-2	20 A	2	25	46	180					**26**	**1**	**20 A**	**RCPT MICROSCOPE ROOM...**
			27			46	180			**28**	**1**	**20 A**	**RCPT MICROSCOPE ROOM...**
RCPT OFFICE 9	20 A	1	29					720	360	**30**	**1**	**20 A**	**RCPT RESEARCH LAB 25**
RCPT OFFICE 9	20 A	1	31	720	360					**32**	**1**	**20 A**	**RCPT RESEARCH LAB 25**
RCPT RESEARCH LAB 20	20 A	1	33			540	180			**34**	**1**	**20 A**	**RCPT BIO BANK - J.KEARN...**
RCPT RESEARCH LAB 20	20 A	1	35					540	360	**36**	**1**	**20 A**	**RCPT BIO BANK - J.KEARN...**
RECEPT ISLAND	20 A	1	37	360	360					**38**	**1**	**20 A**	**RCPT LAB - R.HINES 3**
RECEPT ISLAND	20 A	1	39			360	180			**40**	**1**	**20 A**	**RCPT LAB D.HINES-E.PHIS...**
RCPT HISTOLOGY &...	20 A	1	41					540	360	**42**	**1**	**20 A**	**RCPT LAB D.HINES-E.PHIS...**
			TOTAL....	7086		6042		6999					
			TOTAL...	60 A		50 A		60 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	6612 VA	100.00%	6612 VA		
MTR	92 VA	125.00%	115 VA	**CONNECTED LOAD:**	20110 VA
				ESTIMATED DEMAND:	20133 VA
				CONNECTED CURRENT:	56 A
				EST. DEMAND CURRENT:	56 A

NOTES:
EVERYTHING IN BOLD IS NEW.

PANELBOARD: EE1

LOCATION: ELECTRICAL ROOM 37 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: SURFACE NEMA1 **A.I.C. RATING:** 10,000 AMPS SYMMETRICAL
MAIN DEVICE: 225 A MLO **SPECIAL:**
BUS AMPS: 225

LOAD DESCRIPTION	BK R	P	CKT	PHASE A		PHASE B		PHASE C		CKT	P	BK R	LOAD DESCRIPTION
SPEC FREEZER FARM 45	20 A	2	1	1200	1200					2	2	20 A	SPEC FREEZER FARM 45
			3			1200	1200			4			
SPEC FREEZER FARM 45	20 A	2	5					1200	1200	6	2	20 A	SPEC FREEZER FARM 45
			7	1200	1200					8			
RCPT FREEZER FARM 45	20 A	1	9			1920	1920			10	1	20 A	RCPT FREEZER FARM 45
RCPT FREEZER FARM 45	20 A	1	11					1920	1920	12	1	20 A	RCPT FREEZER FARM 45
RCPT FREEZER FARM 45	20 A	1	13	1920	1920					14	1	20 A	RCPT FREEZER FARM 45
RECEPT EMERG. GEN. BLOCK HEATER	20 A	2	15			1560	180			16	1	20 A	RCPT RESEARCH LAB 2
			17					1560	180	18	1	20 A	RCPT
EMERG. GEN. BATT....	20 A	1	19	600	1500					20	1	20 A	REFRIG.
RCPT FREEZER FARM 45	20 A	1	21			1920	180			22	1	20 A	RCPT RESEARCH LAB 18
SPEC FREEZER FARM 45	20 A	2	23					1200	180	24	1	20 A	RCPT RESEARCH LAB 19
			25	1200	180					26	1	20 A	RCPT LAB D.HINES-E.PHIS....
SPACE	--	--	27			0	180			28	1	20 A	RCPT
RCPT HISTOLOGY 22	20 A	2	29					160	180	30	1	20 A	RCPT RESEARCH LAB 25
			31	160	720					32	1	20 A	RCPT RESEARCH LAB 35
RCPT HISTOLOGY 22	20 A	2	33			160	1200			34	2	20 A	SPEC FREEZER FARM 45
			35					160	1200	36			
RCPT HISTOLOGY &...	20 A	1	37	180	1200					38	2	20 A	SPEC FREEZER FARM 45
RCPT HISTOLOGY &...	20 A	1	39			180	1200			40			
RCPT HISTOLOGY &...	20 A	1	41					180	100	42	1	20 A	GEN. ANNUNCIATOR
			TOTAL....	14352		12980		11806					
			TOTAL...	122 A		110 A		94 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	18084 VA	77.65%	14042 VA		
MTR	3720 VA	120.97%	4500 VA	**CONNECTED LOAD:**	38548 VA
SPEC	16744 VA	100.00%	16744 VA	**ESTIMATED DEMAND:**	35286 VA
				CONNECTED CURRENT:	107 A
				EST. DEMAND CURRENT:	98 A

NOTES:

PANELBOARD: BB3

LOCATION: CORRIDOR 6 **VOLTAGE:** 208Y/120 V. 3 ø 4 W.
MOUNTING: RECESSED NEMA1 **A.I.C. RATING:** 10,000 AMPS SYMMETRICAL
MAIN DEVICE: 225 A MLO **SPECIAL:**
BUS AMPS: 225

LOAD DESCRIPTION	BK R	P	CKT	PHASE A		PHASE B		PHASE C		CKT	P	BK R	LOAD DESCRIPTION
SPEC	**30 A**	**2**	**1**	0	540					2	1	20 A	RECEPT ROOM 20
			3			0	720			4	1	20 A	RECEPT ROOM 20
BB3A	**100 A**	**3**	**5**					5400	0	6	1	20 A	FUME HOOD 405 RECEPT
			7	4323	720					8	1	20 A	RECEPT ROOM 19
			9			3780	540			10	1	20 A	RECEPT ROOM 19
RCPT CONFERENCE...	**20 A**	**1**	**11**					540	540	12	1	20 A	RECEPTS CORR, ROOM 19
RECEPT CORRIDOR	20 A	1	13	540	360					14	1	20 A	RECEPTS ROOM 14
			15				360			16	1	20 A	RECEPTS ROOM 14
RECEPT CORRIDOR	20 A	1	17					540	360	18	1	20 A	RECEPTS ROOM 14
			19		500					20	1	20 A	DRINKING FOUNTAIN
RCPT	**20 A**	**1**	**21**			180	600			22	1	20 A	LIGHTS ROOM 19
LIGHTS ROOM 15	20 A	1	23					720		**24**			
FC-2	**20 A**	**2**	**25**	46	720					26	1	20 A	RECEPTS ROOM 15
			27			46	540			28	1	20 A	RECEPTS ROOM 15
MTR	**20 A**	**2**	**29**					230	900	30	1	20 A	RECEPTS ROOM 12
			31	230	540					32	1	20 A	RECEPTS ROOM 12
RECEPTS ROOM 19	20 A	2	33			500	180			34	1	20 A	RCPT LAB-1 46-1
			35					500	230	**36**	**2**	**20 A**	**FC-2**
WIB ROOM 32	20 A	3	37	0	230					**38**			
			39			0	0			**40**	**2**	**30 A**	**SPEC**
			41					0	0	**42**			
			TOTAL....	8606		7260		9780					
			TOTAL...	73 A		60 A		83 A					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	12780 VA	89.12%	11390 VA		
MTR	2780 VA	115.90%	3222 VA	**CONNECTED LOAD:**	25635 VA
SPEC	0 VA	0.00%	0 VA	**ESTIMATED DEMAND:**	24717 VA
				CONNECTED CURRENT:	71 A
				EST. DEMAND CURRENT:	69 A

NOTES:
EVERYTHING IN BOLD IS NEW.

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NO.	DATE	DESCRIPTION
1	11/02/17	AHJ COMMENTS

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STAMP

PROFESSIONAL ENGINEER - STATE OF NEVADA
ROGELIO ESPARZA
EXP. 12-31-18
ELECTRICAL
No. 23765
November 2, 2017

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)
PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**
SHEET TITLE: **ELECTRICAL SCHEDULES**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	

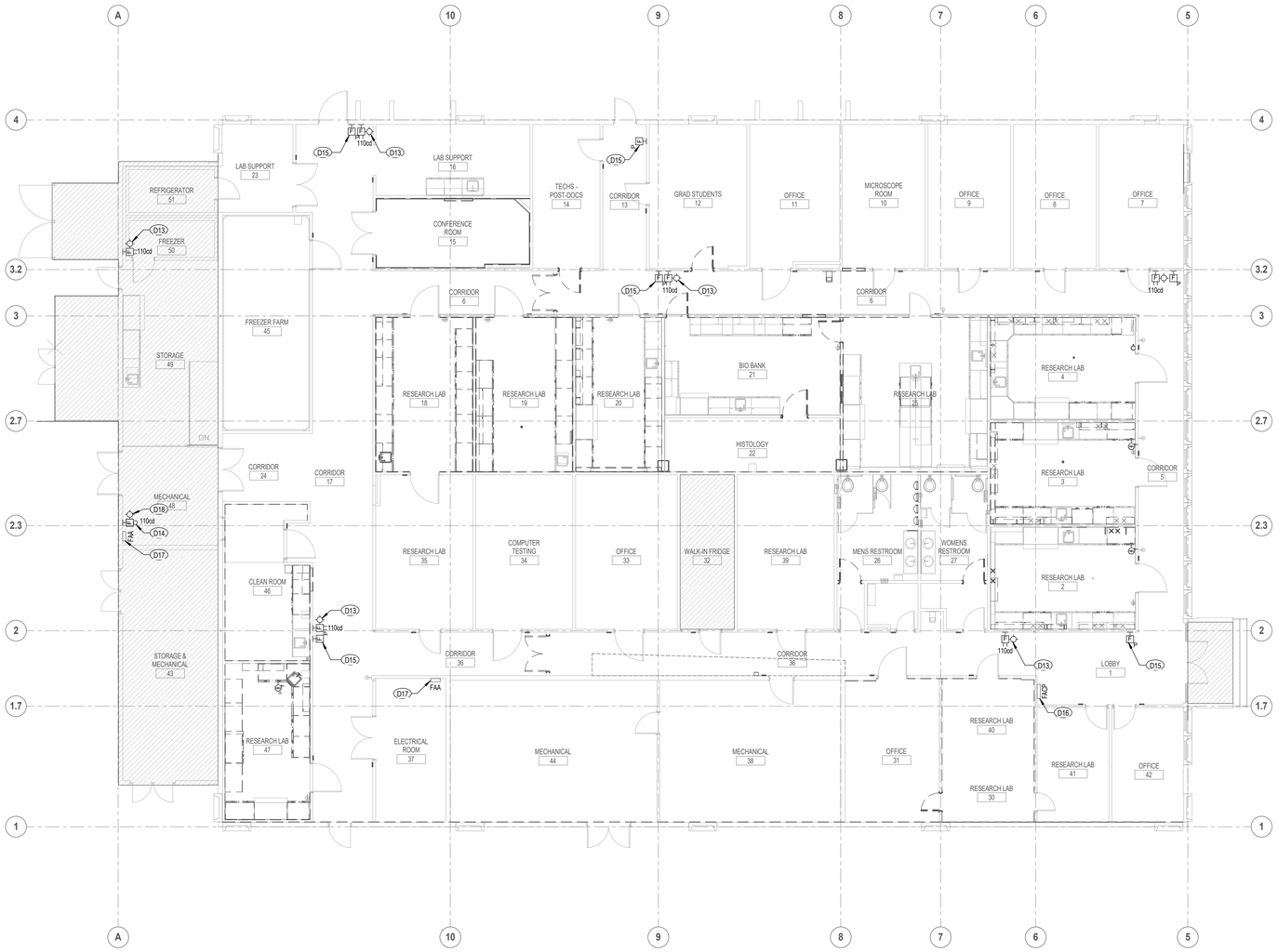
E6.01

GENERAL SHEET NOTES

1. CONTRACTOR TO REMOVE AND REPLACE FACP (FIRE ALARM CONTROL PANEL) WITH AN ADDRESSABLE FACP.
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. CONTRACTOR TO PROVIDE SHOP DRAWINGS INCLUDING CONDUIT PATH AND ELECTRICAL CONNECTIVITY FOR FIRE MARSHAL APPROVAL PRIOR TO START OF INSTALLATION.
4. ALL FIRE ALARM DEVICES TO HAVE DEDICATED AC CIRCUITS.
5. ALL INSTALLED FIRE ALARM EQUIPMENT MUST BE ACCESSIBLE FOR MAINTENANCE AND TESTING.
6. ALL SMOKE DETECTORS TO BE AT 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 CURCUITS, 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 FOR ALL OTHER BUILDINGS STILL ATTACHED TO IT.
11. 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.

KEY NOTES

D13	FIRE ALARM CHIME WITH STROBE
D14	FIRE ALARM BELL
D15	FIRE ALARM PULL STATION
D16	FACP (FIRE ALARM CONTROL PANEL).
D17	FAA (FIRE ALARM COMMUNICATION TRANSMITTER).
D18	FIRE ALARM STROBE



1 DEMO FIRE ALARM FLOOR PLAN

SCALE: 1/8" = 1'-0"

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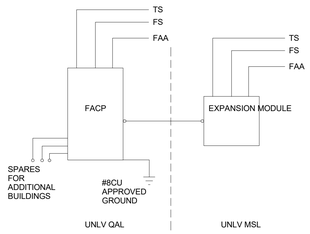
PROFESSIONAL ENGINEER, STATE OF NEVADA
ROGELIO ESPARZA
EXP. 12-31-18
ELECTRICAL
No. 23765
November 2, 2017

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

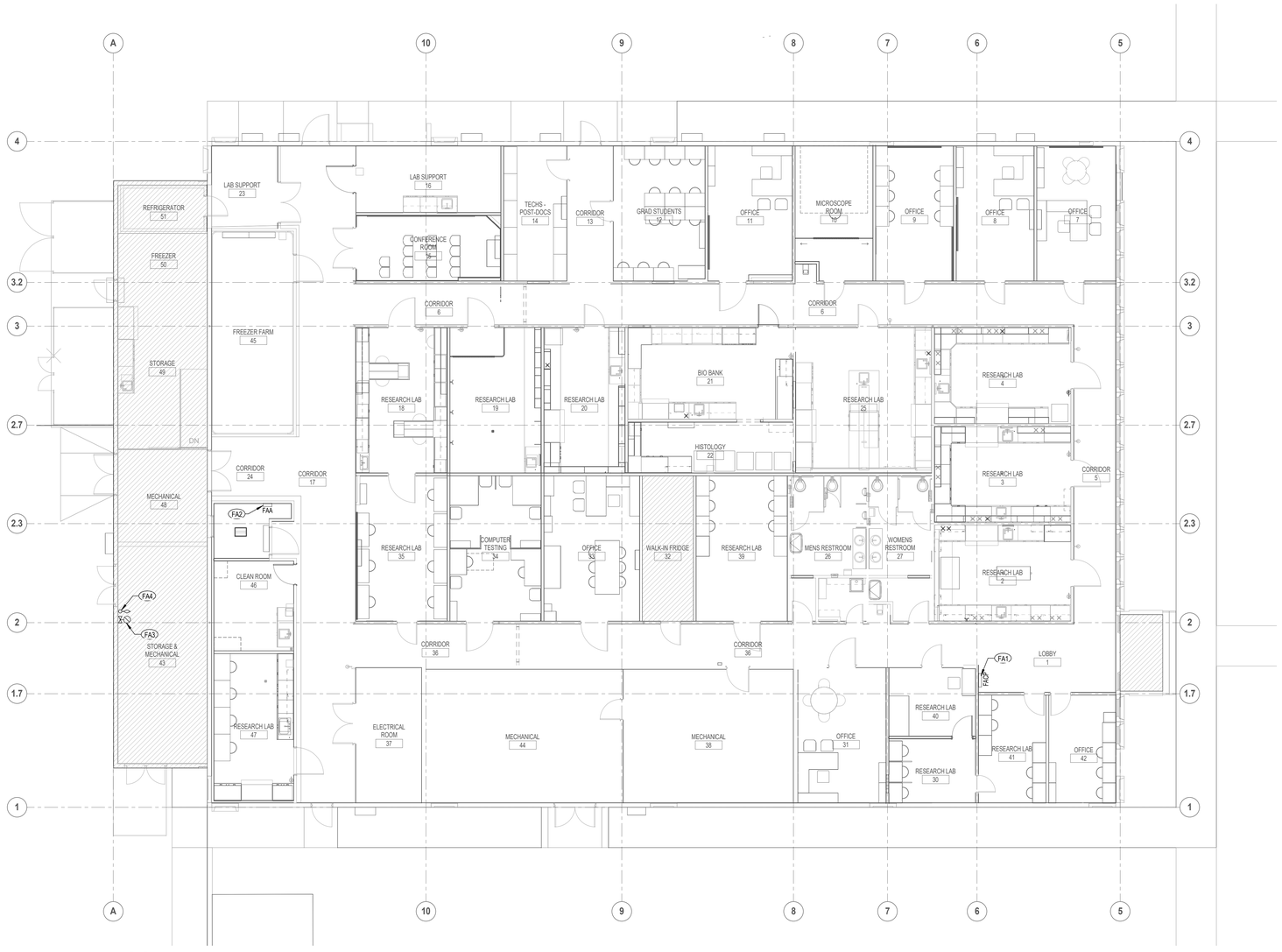
SHEET TITLE: **DEMO FIRE ALARM PLAN**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	**FA0.20**



FACP - FIRE ALARM CONTROL PANEL
FAA - FIRE ALARM COMMUNICATION TRANSMITTER
TS - TAMPER SWITCH
FS - FLOW SWITCH

2 ADDRESSABLE FA SYSTEM



1 FIRE ALARM FLOOR PLAN

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

1. CONTRACTOR TO REMOVE AND REPLACE FACP (FIRE ALARM CONTROL PANEL) WITH AN ADDRESSABLE FACP.
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. CONTRACTOR TO PROVIDE SHOP DRAWINGS INCLUDING CONDUIT PATH AND ELECTRICAL CONNECTIVITY FOR FIRE MARSHAL APPROVAL PRIOR TO START OF INSTALLATION.
4. ALL FIRE ALARM DEVICES TO HAVE DEDICATED AC CIRCUITS.
5. ALL INSTALLED FIRE ALARM EQUIPMENT MUST BE ACCESSIBLE FOR MAINTENANCE AND TESTING.
6. ALL SMOKE DETECTORS TO BE AT 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 CURCUITS, 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 FOR ALL OTHER BUILDINGS STILL ATTACHED TO IT.
11. 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.
12. EXISTING SPRINKLERS WILL NEED TO BE EXTENDED IN AREAS THAT HAVE PARTITIONS OR CURTAINS AND MAY OBSTRUCT THE WET SYSTEM. THESE AREAS WILL ALSO NEED TO HAVE SENSORS ADDED TO THE EXTENDED EXISTING SYSTEM.
13. WET SPRINKLERS WILL NEED TO BE REMOVED FROM DATA ROOM WHICH MAY EFFECT COMPLIANCE OF THE CLEAN ROOM, RM #46 DUE TO ROOM SUBDIVISION.
14. 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.
15. COMPLETE FIRE ALARM SYSTEM DRAWINGS TO BE SUBMITTED BY CERTIFIED FPE AT A LATER TIME FOR APPROVAL.

KEY NOTES

FA1	FACP (FIRE ALARM CONTROL PANEL).
FA2	FAA (FIRE ALARM COMMUNICATION TRANSMITTER).
FA3	TS (TAMPER SWITCH).
FA4	FS (FLOW SWITCH).

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ROGELIO ESPARZA
EXP. 12-31-18
ELECTRICAL
No. 23765
November 2, 2017

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **FIRE ALARM PLAN**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	**FA1.01**

GENERAL LOW VOLTAGE NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOOK THROUGH ALL DRAWINGS ASSOCIATED WITH THIS PROJECT. WORK ASSOCIATED WITH THE ELECTRICAL CONTRACTOR'S TRADE MAY BE SHOWN ON OTHER DRAWINGS. ANY ADDITIONAL COST RESULTING FROM THE FAILURE TO INCLUDE THESE ITEMS SHOWN ON THE OTHER DRAWINGS WILL BE INCURRED BY CONTRACTOR.
2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO ALLOW OTHER METHODS AND MATERIALS NOT REFLECTED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST THE ENGINEER WAIVE THE STANDARDS TO ALLOW ALTERNATE MEANS AND METHODS PRIOR TO BEGINNING THE PROJECT. CONTRACT DOCUMENT REVISIONS TO ACCOMMODATE INSTALLED CONDITIONS, WITHOUT PRIOR APPROVAL, WILL RESULT IN ADDITIONAL DESIGN CHARGES TO THE CONTRACTOR.
3. ELECTRICAL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE NECA INSTALLATION STANDARDS TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
4. ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE CURRENTLY ADOPTED EDITION OF ALL APPLICABLE NATIONAL, STATE AND CITY CODES AND ORDINANCES.
5. ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY AS ALLOWED BY AUTHORITY HAVING JURISDICTION.
6. WHERE AN APPARENT DISCREPANCY EXISTS BETWEEN THE REQUIREMENTS OF THE GENERAL NOTES AND INFORMATION PORTRAYED IN THE ELECTRICAL DRAWINGS, THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF THE GREATER QUALITY OR QUANTITY.
7. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BID AND VERIFY EXISTING CONDITIONS.
8. CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS REQUIRED FOR PERMITS AND INSPECTIONS.
9. CONTRACTOR SHALL VERIFY, WITH OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING BID, ALLOWABLE WORKING HOURS, EMPLOYEE PARKING AREAS, MATERIAL DELIVERY, STORAGE REQUIREMENTS, DEMOLITION AND REMOVAL OF CONSTRUCTION DEBRIS, AS WELL AS DAILY CLEAN UP REQUIREMENTS. INCLUDE ALL COSTS IN BID FOR DUST BARRIERS, DUMPSTERS ETC. AS REQUIRED FOR THE DURATION OF THE PROJECT. PERFORM ALL WORK AS DIRECTED BY OWNER'S REPRESENTATIVE AND ARCHITECT.
10. ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS AT NO ADDITIONAL COST TO OWNER.
11. CONTRACTOR SHALL GUARANTEE ALL WORK AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. ALL DEFECTS SHALL BE PROMPTLY CORRECTED BY CONTRACTOR WITHOUT ADDITIONAL COST TO OWNER.
12. PROVIDE AS-BUILT DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ACCURATE CONDUIT AND DEVICE LOCATIONS DIMENSIONED FROM PERMANENT LANDMARKS SUCH AS BUILDING WALLS.
13. DO NOT SCALE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATION OF ALL DEVICES, JUNCTION BOXES, LIGHTING FIXTURES, ETC. WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ROUGH-IN. EVERY OUTLET HEIGHT SHALL BE VERIFIED ON EACH WALL WITH THE INTERIOR PLANNING AND DESIGN DRAWINGS. COORDINATE WITH CABINET SHOP DRAWINGS TO ENSURE PROPER HEIGHT AND LOCATION WITH RESPECT TO MILLWORK, EQUIPMENT, ETC.
14. THESE DRAWINGS INDICATE THE FINISHED REQUIREMENTS FOR THE ELECTRICAL SYSTEMS, EQUIPMENT, LIGHTING FIXTURES, OUTLETS AND DEVICES. DUE TO STRUCTURAL CONDITIONS, MECHANICAL DUCT, PIPING CONFLICTS, OR OTHER LEGITIMATE REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK INDICATED IN A MANNER DIFFERENT FROM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING. UPON APPROVAL, THE WORK SHALL BE PERFORMED AND THE AS-BUILT DRAWINGS SHALL BE REVISED TO ACCURATELY REFLECT THE WORK AS ACTUALLY INSTALLED.
15. ANY VARIANCE OR EXCEPTIONS OF THE DRAWINGS AND SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING BY THE ENGINEER. WHERE UNAUTHORIZED CHANGES ARE FOUND, THE CONTRACTOR SHALL REMOVE THE INSTALLED WORK AND INSTALL ITS AS SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST THE THE OWNER. COST SHALL INCLUDE ANY CUTTING , PATCHING, PAINTING AND REPAIR COST TO INSTALLED CEILINGS, WALLS ETC. AS REQUIRED FOR CORRECTING THE DEFICIENCY.
16. RACEWAY SYSTEMS ARE SHOWN DIAGRAMMATICALLY. ACTUAL LOCATION AND ROUTING OF ALL, SHALL BE DETERMINED BY CONTRACTOR TO SUIT FIELD CONDITIONS.
17. RACEWAYS SHALL BE INSTALLED CONCEALED WHENEVER POSSIBLE. RACEWAYS INSTALLED EXPOSED (AS APPROVED BY ENGINEER IN WRITING PRIOR TO ROUGH-IN) SHALL BE ROUTED OUT OF PUBLIC VIEW AS MUCH AS POSSIBLE. RACEWAYS SHALL BE RUN PARALLEL WITH, OR AT RIGHT ANGLE TO WALLS.
18. PROVIDE UL APPROVED EXPANSION FITTINGS WHERE RACEWAYS CROSS BUILDING EXPANSION JOINTS. PROVIDE BONDING JUMPER(S) SIZED PER CODE WHERE REQUIRED. PROVIDE ALL FITTINGS REQUIRED FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATION(S).
19. CONTRACTOR SHALL PROVIDE ALL RACEWAY SYSTEMS INDICATED ON THE DRAWING PER NEC REQUIREMENTS AND GENERAL NOTES. ANY DEVIATION FROM THE WIRING METHODS INDICATED SHALL BE ALLOWED ONLY BY SPECIFIC WRITTEN APPROVAL FROM EITHER THE ARCHITECT, ENGINEER OR OWNER. CONTRACTOR'S BID SHALL INCLUDE ALL COSTS FOR RACEWAY SYSTEMS AS SPECIFIED UNLESS SPECIFIC WRITTEN APPROVAL FOR AN ALTERNATIVE WIRING METHOD IS OBTAINED FROM EITHER THE ARCHITECT, ENGINEER OR OWNER AND IS SUBMITTED AS PART OF CONTRACTOR'S FORMAL BID PROPOSAL.
20. PRIOR TO INSTALLATION, CONTRACTOR SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR CONFLICTS WITH OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICT DURING INSTALLATION. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS IN EQUIPMENT LOCATION AND ROUTING AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
21. CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY CUT AND PATCH EXISTING CONSTRUCTION AS REQUIRED TO INSTALL NEW ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS THE EXISTING WORK AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT.
22. ALL ELECTRICAL EQUIPMENT SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE QUANTITY AND SIZE OF CONDUCTORS REQUIRED. CONTRACTORS SHALL PROVIDE EQUIPMENT WITH OVERSIZED ENCLOSURES WHERE REQUIRED.
23. COORDINATE ELECTRICAL REQUIREMENTS FOR ALL PLUMBING AND MECHANICAL EQUIPMENT WITH FINAL CONTRACTOR SELECTION. THE CONTRACTOR SHALL SIZE DISCONNECTS BASED UPON CIRCUIT BREAKER RATINGS AND PROVIDE FUSING AS REQUIRED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS AND U.L. LISTING REQUIREMENT
24. SIZING OF MOTOR-RELATED ELECTRICAL COMPONENTS, INCLUDING FEEDER AND/ OR BRANCH CIRCUITS (WIRE AND CONDUIT) AND OVERCURRENT PROTECTION (BREAKER AND/ OR FUSES) IS BASED ON RATINGS INDICATED IN THE CONTRACT DOCUMENTS AS WELL AS NEC APPROXIMATED LOADS FOR A GIVEN MOTOR HORSEPOWER, VOLTAGE AND PHASE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL MOTOR AND APPLIANCE RATING AND LOADS. CONTRACTOR TO PROVIDE CORRECTLY SIZED MOTOR OVERLOAD ELECTRICAL COMPONENTS BASED ON NAMEPLATE RATING. REFLECT ALL CHANGES IN THE AS-BUILT DRAWINGS.
25. THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN, SHALL VERIFY ALL HVAC AMPERAGES, PHASES AND VOLTAGES AGAINST PLAN REQUIREMENTS AND NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES. FAILURE TO VERIFY AND NOTIFY ENGINNER/ARCHITECT PRIOR TO ROUGH-IN SHALL RESULT IN THE ELECTRICAL CONTRACTOR ASSUMING RESPONSIBILITY FOR DESIGN AND INSTALLATION REQUIREMENTS.
26. THE ELECTRICAL CONTRACTOR SHALL INSURE FINAL COORDINATION OF THE MANUFACTURERS RECOMMENDED FUSE SIZES FOR THE INSTALLED MECHANICAL EQUIPMENT WITH THE SIZE DISCONNECT PRIOR TO OR DURING ROUGH-IN. ADVISE ENGINEER IF CHANGES IN THE FINAL SELECTION OF MECHANICAL EQUIPMENT HAVE IMPACTED DISCONNECT SWITCH, BREAKER, OR CONDUCTOR SIZES.
27. CONTRACTOR SHALL ENGAGE THE SERVICES FOR A STATE LICENSED FIRE ALARM MANUFACTURER/INSTALLER TO PREPARE ALL DESIGN DRAWINGS AND CALCULATIONS REQUIRED FOR SYSTEM APPROVAL BY THE AUTHORITY HAVING JURISDICTION. SUBMIT ALL PLANS AND PROVIDE ALL PERMITS REQUIRED FOR A COMPLETE AND OPERABLE APPROVED LIFE SAFETY SYSTEM.
28. ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DIAGRAMS THAT CONFORM TO UL LISTING FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS".
29. WHERE MOTORS ARE INSTALLED IN SUSPENDED CEILINGS, CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH IN SUSPENDED CEILING WITHIN REACH FROM ACCESS POINT.
30. VERIFY DEVICE COLOR AND MOUNTING ORIENTATION (VERTICAL OR HORIZONTAL) WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS PRIOR TO ORDERING ANY EQUIPMENT AND PROVIDE DEVICES AS REQUIRED. UNLESS NOTED OTHERWISE, DEVICES AND DEVICE PLATES SHALL BE WHITE IN COLOR.
31. PROVIDE TYPED UPDATED PANEL DIRECTORY TO BE MOUNTED ON INSIDE OF ALL PANEL DOOR COVERS. DIRECTORY SHALL REFLECT ALL ADDITIONS OR MODIFICATIONS TO EXISTING PANELS AND SHALL REFLECT ACTUAL "AS-BUILT" CONDITIONS.
32. ALL NEW PANELBOARDS AND SWITCHBOARDS SHALL BE OF THE SAME MANUFACTURER AND HAVE LOCKING DOORS AND BE KEYED THE SAME U.N.O.
33. UPON COMPLETION OF THE INSTALLATION OF LIFE SAFETY SYSTEM WIRING AND DEVICES, A PERFORMANCE TEST OF THE ENTIRE LIFE SAFETY SHALL BE PERFORMED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
34. ALL EQUIPMENT ELECTRICAL TERMINATIONS TO UNDERGO A TORQUE TEST. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MANUFACTURER'S RECOMMENDED TORQUE DOCUMENTATION AND TOOLS TO PERFORM TORQUE TEST.
35. FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HIGH CONCRETE PAD.
36. INSTALL TRANSFORMER FOLLOWING MANUFACTURER'S RECOMMENDATIONS FOR VENTILATION CLEARANCES.
37. FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
38. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, ARCHITECT AND ENGINEER AS REQUIRED SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS. REQUESTS FOR SHUTDOWNS SHALL BE SUBMITTED IN WRITING AT LEAST ONE WEEK IN ADVANCE FOR APPROVAL BY THE OWNER.
39. ALL EXPOSED RACEWAYS SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
40. THE ELECTRICAL CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY "VALUE ENGINEERING" OF THE MATERIALS, SPECIFICATIONS AND DESIGN OF THIS PROJECT, INCLUDING ANY AND ALL COST FOR ANY REVISIONS TO THE CONTRACT DOCUMENTS REQUIRED AS A RESULT IF THE "VALUE ENGINEERING".
41. PROPOSED ALTERNATE LIGHT FIXTURES SHALL BE SUBMITTED WITH A PHOTOMETRIC STUDY SHOWING COMPLIANCE WITH ALL APPLICABLE LIGHTING CODES AND ORDINANCES.
42. AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE ELECTRICAL SYSTEM SHALL BE THOROUGHLY CLEANED. REMOVE ALL FOREIGN MATERIAL, DUST, PAINT, OIL GREASE, UNNEEDED LABELS AND STICKERS FROM EQUIPMENTS. REMOVE ALL DEBRIS ACCUMULATED DURING CONSTRUCTION.

SPECIFIC CODE NOTES

FIRE PROTECTION REQUIREMENTS

A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
    1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
    2. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
    3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.

B. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.

C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

ABATEMENT

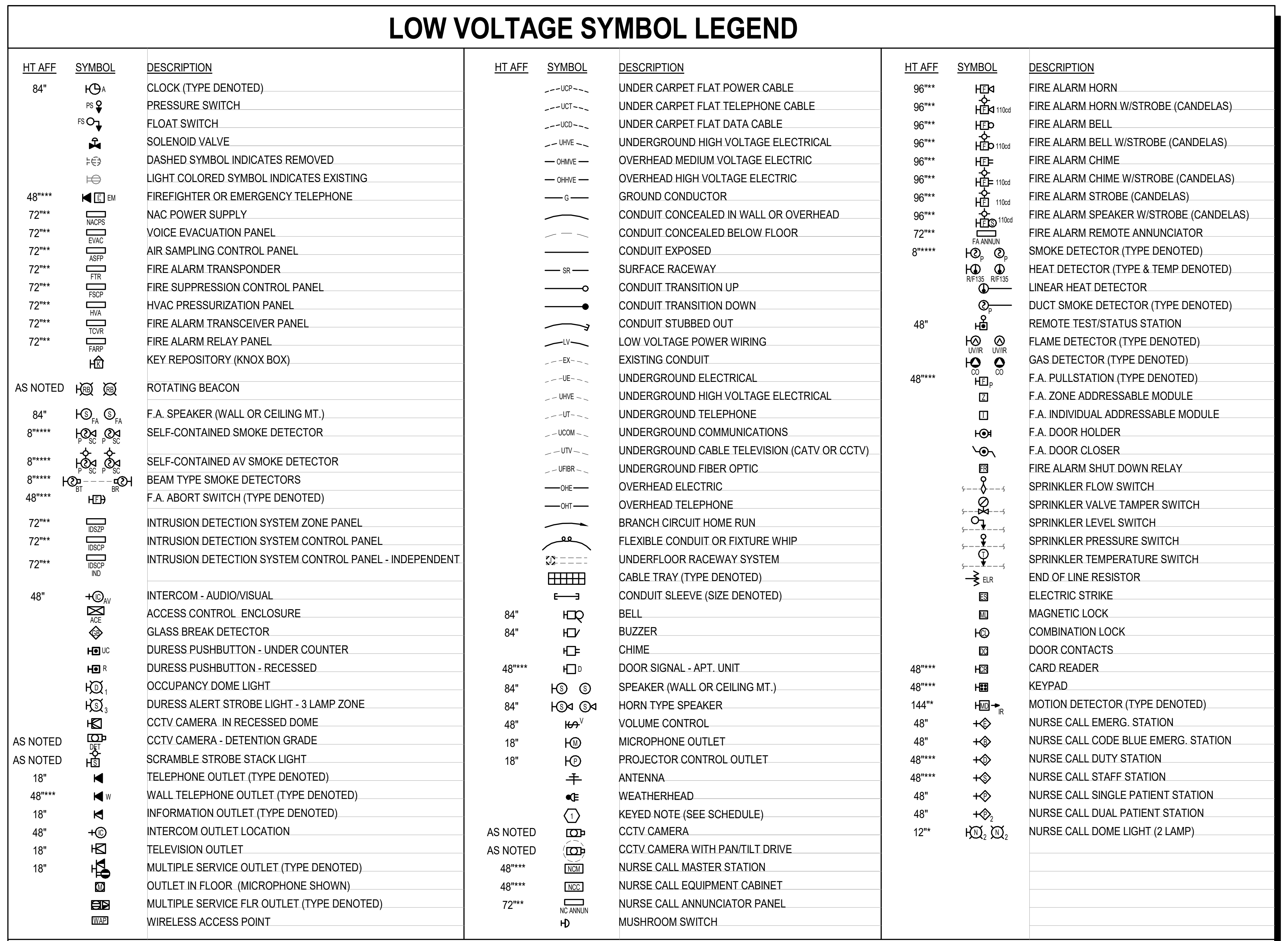
ASBESTOS AND LEAD PAINT ABATEMENT

A. CONTRACTOR IS TO REFER TO ARCHITECTURAL NOTES CONCERNING ABATEMENT AND STUDY THEM CAREFULLY BEFORE BIDDING THE PROJECT.

LOW VOLTAGE ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)
A	AMPERE
AC	ABOVE COUNTER OR AIR CONDITIONER
ACLG	ABOVE CEILING
ADO	AUTOMATIC DOOR OPENER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMPL	AMPLIFIER
ANNUN	ANNUNCIATOR
APPROX	APPROXIMATELY
AQ-STAT	AQUASTAT
ARCH	ARCHITECT, ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BD	BOARD
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CAB	CABINET
CAT	CATALOG
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
COMB	COMBINATION
CMPR	COMPRESSOR
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION OR CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVECTOR
CP	CIRCULATING PUMP
CRT	CATHODE-RAY TUBE
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
DCP	DOMESTIC WATER CIRCULATING PUMP
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DPR	DAMPER
DS	SAFETY DISCONNECT SWITCH
DT	DOUBLE THROW
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRIC PNEUMATIC
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FU	FUSE
FUDS	FUSED SAFETY DISCONNECT SWITCH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GND	GROUND
GRS	GALVANIZED RIGID STEEL (CONDUIT)
GYP BD	GYPSUM BOARD
HOA	HANDS-OFF-AUTOMATIC SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HWP	HYDRONIC WATER PUMP
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
I/W	INTERLOCK WITH
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LOC	LOCATE OR LOCATION
LT	LIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
MAX	MAXIMUM
MAG.S	MAGNETIC STARTER
M/C	MOMENTARY CONTACT
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDC	MAIN DISTRIBUTION CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MFS	MAIN FUSED DISCONNECT SWITCH
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER
MOA	MULTIOUTLET ASSEMBLY
MSP	MOTOR STARTER PANELBOARD
MSBD	MAIN SWITCHBOARD
MT	MOUNT
MT.C	EMPTY CONDUIT
MTS	MANUAL TRANSFER SWITCH
MTR	MOTOR, MOTORIZED
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOADS
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PE	PNEUMATIC ELECTRIC
PED	PEDESTAL
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE
PNL	PANEL
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PROJ	PROJECTION
PRV	POWER ROOF VENTILATOR
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QUAN	QUANTITY
RCPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RSC	RIGID STEEL CONDUIT
RTU	ROOF TOP UNIT
SC	SURFACE CONDUIT
SEC	SECONDARY
SHT	SHEET
SIM	SIMILAR
S/N	SOLID NEUTRAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SP	SPARE
SR	SURFACE RACEWAY
SS	STAINLESS STEEL
SSW	SELECTOR SWITCH
S/S	STOP/START PUSHBUTTONS
STA	STATION
STD	STANDARD
SURF	SURFACE MOUNTED
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
SYS	SYSTEM
TEL	TELEPHONE
TEL/DATA	TELEPHONE/DATA
TERM	TERMINAL
TL	TWIST LOCK
TR	TAMPER RESISTANT
T-STAT	THERMOSTAT
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TVTC	TELEVISION TERMINAL CABINET
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UT	UNDERGROUND TELEPHONE
UTIL	UTILITY
UV	UNIT VENTILATOR OR ULTRAVIOLET
V	VOLT
VA	VOLT-AMPERES
VDT	VIDEO DISPLAY TERMINAL
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WATT
W/	WITH
WG	WIRE GUARD
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XFR	TRANSFER
∠	ANGLE
@	AT
Δ	DELTA
'	FEET
"	INCHES
#	NUMBER
Ø	PHASE
℄	CENTER LINE
P	PLATE

LOW VOLTAGE SYMBOL LEGEND



HT AFF	SYMBOL	DESCRIPTION
84"	A	CLOCK (TYPE DENOTED)
	PS	PRESSURE SWITCH
	FS	FLOAT SWITCH
		SOLENOID VALVE
		DASHED SYMBOL INDICATES REMOVED
		LIGHT COLORED SYMBOL INDICATES EXISTING
48"***	EM	FIREFIGHTER OR EMERGENCY TELEPHONE
72"**	NACPS	NAC POWER SUPPLY
72"**	EVAC	VOICE EVACUATION PANEL
72"**	ASFP	AIR SAMPLING CONTROL PANEL
72"**	FTR	FIRE ALARM TRANSPONDER
72"**	FSCP	FIRE SUPPRESSION CONTROL PANEL
72"**	HVA	HVAC PRESSURIZATION PANEL
72"**	TCVR	FIRE ALARM TRANSCEIVER PANEL
72"**	FARP	FIRE ALARM RELAY PANEL
	K	KEY REPOSITORY (KNOX BOX)
AS NOTED	RB RB	ROTATING BEACON
84"	S FA S FA	F.A. SPEAKER (WALL OR CEILING MT.)
8"*****	P SC P SC	SELF-CONTAINED SMOKE DETECTOR
8"*****	P SC P SC	SELF-CONTAINED AV SMOKE DETECTOR
8"*****	BT BR	BEAM TYPE SMOKE DETECTORS
48"***	F	F.A. ABORT SWITCH (TYPE DENOTED)
72"**	IDSZP	INTRUSION DETECTION SYSTEM ZONE PANEL
72"**	IDSCP	INTRUSION DETECTION SYSTEM CONTROL PANEL
72"**	IDSCP IND	INTRUSION DETECTION SYSTEM CONTROL PANEL - INDEPENDENT
48"	IC AV	INTERCOM - AUDIO/VISUAL
	ACE	ACCESS CONTROL ENCLOSURE
	GB	GLASS BREAK DETECTOR
	UC	DURESS PUSHBUTTON - UNDER COUNTER
	R	DURESS PUSHBUTTON - RECESSED
	D 1	OCCUPANCY DOME LIGHT
	S 3	DURESS ALERT STROBE LIGHT - 3 LAMP ZONE
		CCTV CAMERA IN RECESSED DOME
AS NOTED	DET	CCTV CAMERA - DETENTION GRADE
AS NOTED	S	SCRAMBLE STROBE STACK LIGHT
18"		TELEPHONE OUTLET (TYPE DENOTED)
48"****	W	WALL TELEPHONE OUTLET (TYPE DENOTED)
18"		INFORMATION OUTLET (TYPE DENOTED)
48"	IC	INTERCOM OUTLET LOCATION
18"		TELEVISION OUTLET
18"		MULTIPLE SERVICE OUTLET (TYPE DENOTED)
	M	OUTLET IN FLOOR (MICROPHONE SHOWN)
		MULTIPLE SERVICE FLR OUTLET (TYPE DENOTED)
	WAP	WIRELESS ACCESS POINT

HT AFF	SYMBOL	DESCRIPTION
	UCP	UNDER CARPET FLAT POWER CABLE
	UCT	UNDER CARPET FLAT TELEPHONE CABLE
	UCD	UNDER CARPET FLAT DATA CABLE
	UHVE	UNDERGROUND HIGH VOLTAGE ELECTRICAL
	OHMVE	OVERHEAD MEDIUM VOLTAGE ELECTRIC
	OHHVE	OVERHEAD HIGH VOLTAGE ELECTRIC
	G	GROUND CONDUCTOR
		CONDUIT CONCEALED IN WALL OR OVERHEAD
		CONDUIT CONCEALED BELOW FLOOR
		CONDUIT EXPOSED
	SR	SURFACE RACEWAY
		CONDUIT TRANSITION UP
		CONDUIT TRANSITION DOWN
		CONDUIT STUBBED OUT
	LV	LOW VOLTAGE POWER WIRING
	EX	EXISTING CONDUIT
	UE	UNDERGROUND ELECTRICAL
	UHVE	UNDERGROUND HIGH VOLTAGE ELECTRICAL
	UT	UNDERGROUND TELEPHONE
	UCOM	UNDERGROUND COMMUNICATIONS
	UTV	UNDERGROUND CABLE TELEVISION (CATV OR CCTV)
	UFIBR	UNDERGROUND FIBER OPTIC
	OHE	OVERHEAD ELECTRIC
	OHT	OVERHEAD TELEPHONE
		BRANCH CIRCUIT HOME RUN
		FLEXIBLE CONDUIT OR FIXTURE WHIP
		UNDERFLOOR RACEWAY SYSTEM
		CABLE TRAY (TYPE DENOTED)
		CONDUIT SLEEVE (SIZE DENOTED)
84"		BELL
84"		BUZZER
		CHIME
48"***	D	DOOR SIGNAL - APT. UNIT
84"	S S	SPEAKER (WALL OR CEILING MT.)
84"	S S	HORN TYPE SPEAKER
48"	V	VOLUME CONTROL
18"	M	MICROPHONE OUTLET
18"	P	PROJECTOR CONTROL OUTLET
		ANTENNA
		WEATHERHEAD
	1	KEYED NOTE (SEE SCHEDULE)
AS NOTED		CCTV CAMERA
AS NOTED		CCTV CAMERA WITH PAN/TILT DRIVE
48"***	NCM	NURSE CALL MASTER STATION
48"***	NCC	NURSE CALL EQUIPMENT CABINET
72"**	NC ANNUN	NURSE CALL ANNUNCIATOR PANEL
		MUSHROOM SWITCH

HT AFF	SYMBOL	DESCRIPTION
96"**	F	FIRE ALARM HORN
96"**	F 110cd	FIRE ALARM HORN W/STROBE (CANDELAS)
96"**	F	FIRE ALARM BELL
96"**	F 110cd	FIRE ALARM BELL W/STROBE (CANDELAS)
96"**	F	FIRE ALARM CHIME
96"**	F 110cd	FIRE ALARM CHIME W/STROBE (CANDELAS)
96"**	F 110cd	FIRE ALARM STROBE (CANDELAS)
96"**	F S 110cd	FIRE ALARM SPEAKER W/STROBE (CANDELAS)
72"**	FA ANNUN	FIRE ALARM REMOTE ANNUNCIATOR
8"****	P P	SMOKE DETECTOR (TYPE DENOTED)
	R/F135 R/F135	HEAT DETECTOR (TYPE & TEMP DENOTED)
		LINEAR HEAT DETECTOR
	P	DUCT SMOKE DETECTOR (TYPE DENOTED)
48"		REMOTE TEST/STATUS STATION
	UV/IR UV/IR	FLAME DETECTOR (TYPE DENOTED)
	CO CO	GAS DETECTOR (TYPE DENOTED)
48"****	F P	F.A. PULLSTATION (TYPE DENOTED)
	Z	F.A. ZONE ADDRESSABLE MODULE
	I	F.A. INDIVIDUAL ADDRESSABLE MODULE
		F.A. DOOR HOLDER
		F.A. DOOR CLOSER
	FR	FIRE ALARM SHUT DOWN RELAY
		SPRINKLER FLOW SWITCH
		SPRINKLER VALVE TAMPER SWITCH
		SPRINKLER LEVEL SWITCH
		SPRINKLER PRESSURE SWITCH
	T	SPRINKLER TEMPERATURE SWITCH
	ELR	END OF LINE RESISTOR
	ES	ELECTRIC STRIKE
	ML	MAGNETIC LOCK
	CL	COMBINATION LOCK
	DC	DOOR CONTACTS
48"***	CR	CARD READER
48"***		KEYPAD
144"*	MD IR	MOTION DETECTOR (TYPE DENOTED)
48"	E	NURSE CALL EMERG. STATION
48"	B	NURSE CALL CODE BLUE EMERG. STATION
48"****	D	NURSE CALL DUTY STATION
48"****	S	NURSE CALL STAFF STATION
48"	P	NURSE CALL SINGLE PATIENT STATION
48"	P 2	NURSE CALL DUAL PATIENT STATION
12"*	N 2 N 2	NURSE CALL DOME LIGHT (2 LAMP)

NOT ALL SYMBOLS MAY APEAR IN THIS SET OF DRAWINGS.

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 48" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 48". DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 48".

* DISTANCE ABOVE TOP OF DOOR FRAME ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE *** DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT **** DISTANCE BELOW CEILING ***** DISTANCE TO BOTTOM OF DEVICE

LOW VOLTAGE SHEET INDEX

NUMBER	TITLE	AHJ COMMENTS 10/24/2017	Bid Documents 11/02/2017
LV0.01	GENERAL INFORMATION		X
LV0.21	COMMUNICATION DEMOLITION FLOOR PLAN		X
LV1.01	COMMUNICATION FLOOR PLAN	X	X
LV3.01	INTRUSION FLOOR PLAN		X
LV3.02	AV INTRUSION DETAILS		X
FA0.20	DEMO FIRE ALARM PLAN		X
FA1.01	FIRE ALARM PLAN		X

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PROFESSIONAL ENGINEER-STATE OF NEVADA
ROGELIO ESPARZA
EXP. 12-31-18
ELECTRICAL
No. 23765
November 2, 2017

OWNE UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE **GENERAL INFORMATION**

DATE November 2, 2017

PROJECT NO. SCS-1640

SUBMITTAL Bid Documents

SHEET NO.

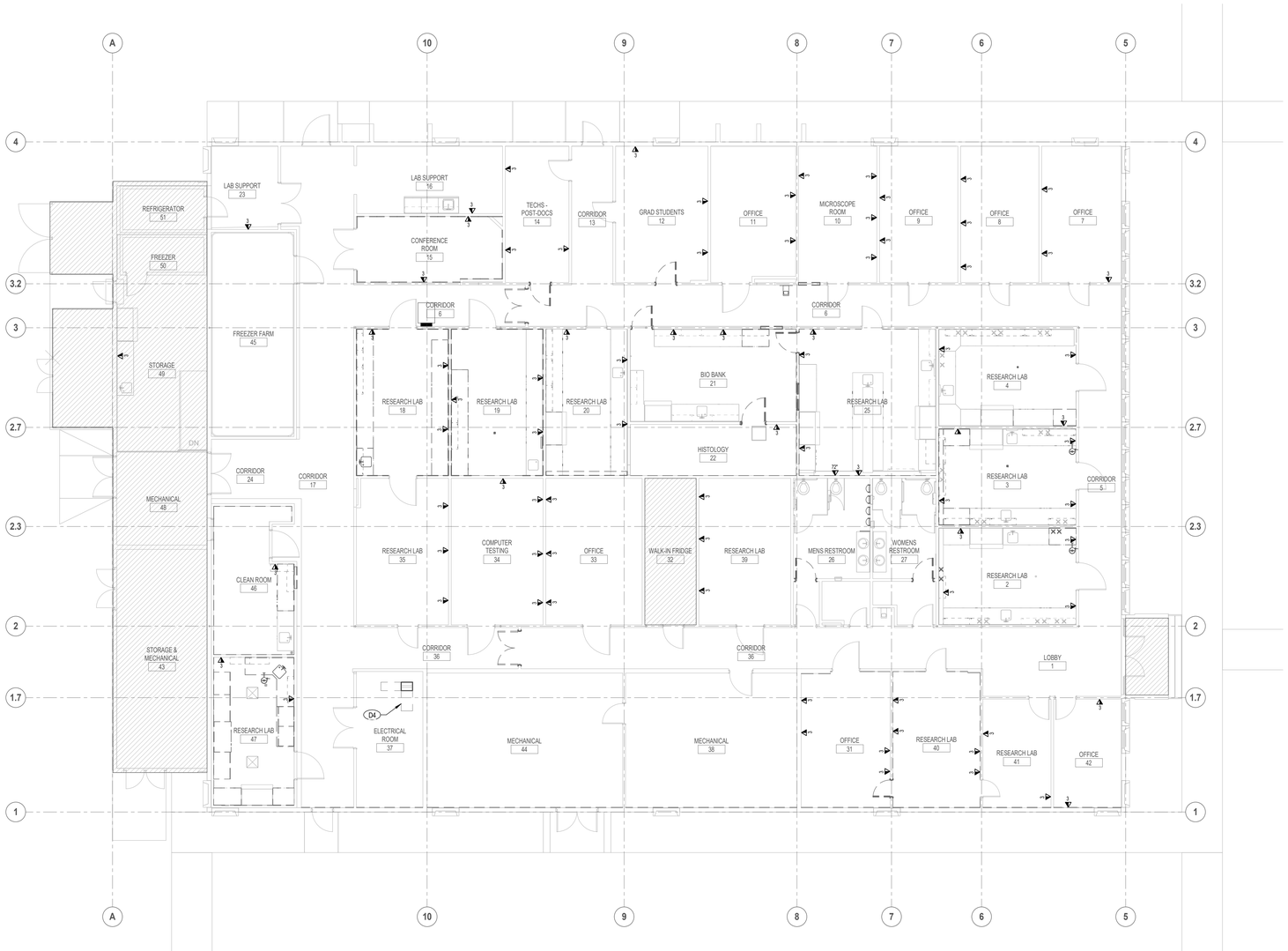
LV0.01

GENERAL SHEET NOTES

1. CONTRACTOR TO REMOVE ALL EXISTING DATA JACKS, CATEGORY 5, SINGLE AND MULTIMODE FIBER BACK TO THIER 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 MNIMUM FT CANDLE LIGHT POSSIBLE PER CODE. ALL OTHER LIGHTS IN THE MICROSCOPE ROOM NEED TO HAVE A SEPARATE LIGHT SWITCH WITH A COVER TO PREVENT ACCIDENTAL DAMAGE TO MICROSCOPES.
6. DATA ROOM/IDF: CONTRACTOR TO REMOVE ALL CABLES, UNUSED RACKS, BACKBOARDS, DECOMISSIONED 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.

KEY NOTES

D4	EXISTING DATA RACK TO BE REMOVED AND ALL ASSOCIATED BACKBOARDS CONDUITS, AND CABLING TO PROVIDE A CLEAN SPACE FOR NEW ELECTRICAL EQUIPMENT.



1 COMMUNICATION DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

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EXP. 12-31-18
ELECTRICAL
No. 23765
November 2, 2017

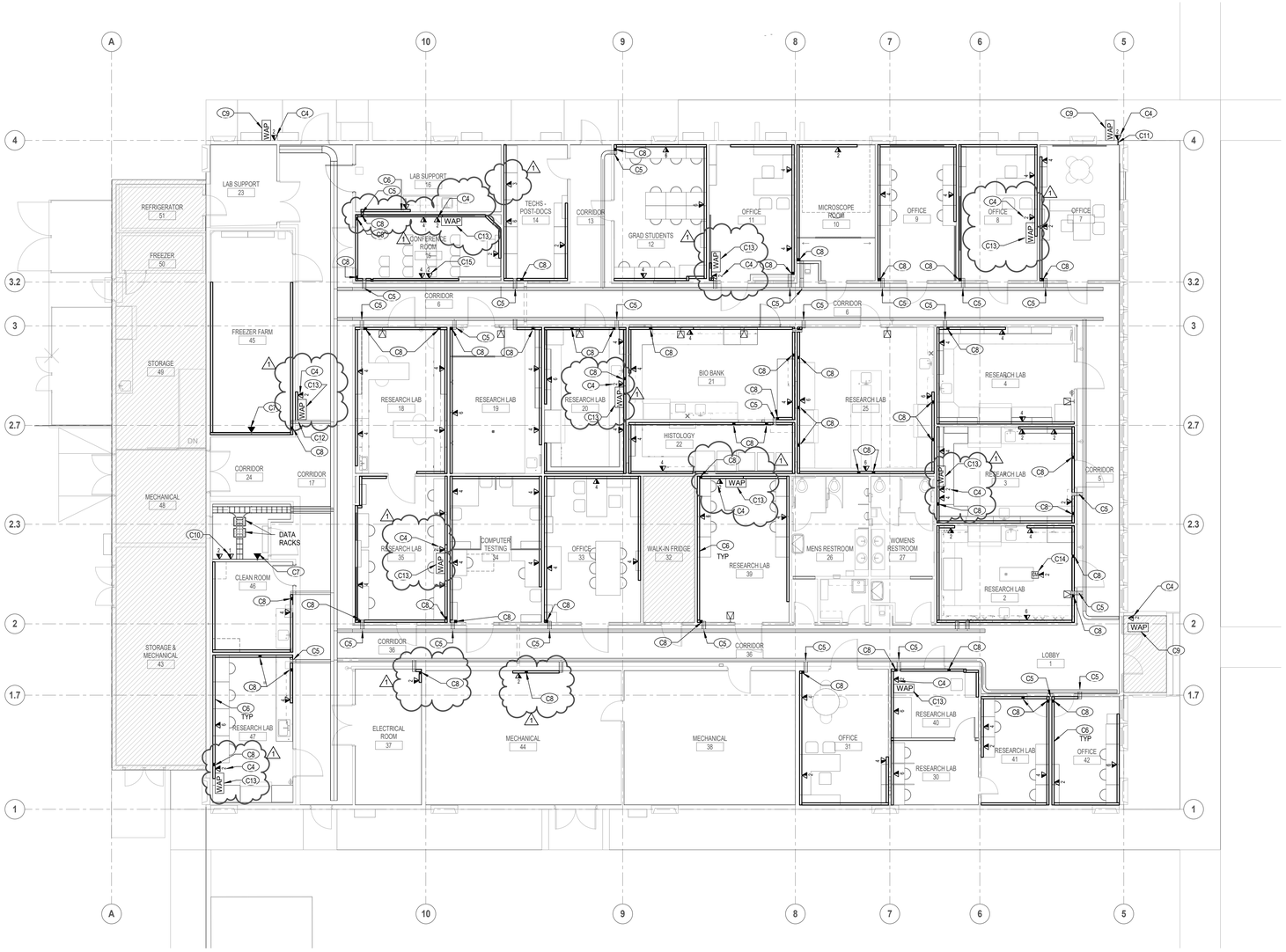
OWNE UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE **COMMUNICATION DEMOLITION FLOOR PLAN**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	

LV0.21



1 COMMUNICATION FLOOR PLAN

SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

GENERAL SHEET NOTES

1. FOR THE REQUIREMENTS ON ROUTING AND SUPPORT OF ALL LOW VOLTAGE CABLE REFER TO THE SPECIFICATION 27 00 00
2. PROVIDE AND INSTALL (1) 3/4"C FROM EACH TELEPHONE 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 POWER RECEPTACLES SHOWN ON ELECTRICAL POWER PLANS.
4. PROVIDE A SIX FOOT SERVICE LOOP OF CAT 6 CABLE AT EACH CONDUIT STUB-UP.
5. IF THE CONTRACTOR IS GOING TO INSTALL THE VOIP IN AN EXISTING PHONE THEN THE CONTRACTOR SHALL HAVE BOTH JACKS MATCH.
6. CONTRACTOR TO REMPOVE DATA JACKS, CATEGORY 5, AND FIBER BACK TO THIER SOURCE.
7. CONTRACTOR TO REPLACE EXISTING DATA CABLES WITH SPECIFIED CATAGORY 6 CABLES, AND INSTALL INSIDE SPECIFIED G400 SURFACE MOUNTED RACEWAY NOT TO EXCEED 40% FILL RATIO.
8. EACH NEWLY INSTALLED CABLE SHOULD BE TESTED END TO END AND TEST REPORTS SHALL BE PROVIDED TO THE OWNER. NOTE: ANY CABLE DISTANE OVER 295FT. SHOULD BE NOTED AS FAILURE.
9. WIRELESS ACCESS POINT. POE CAT6 DATA RECEPTACLE TO BE INSTALLED AT CEILING HEIGHT IN NOTED LOCATIONS.
10. POWER OUTLETS ARE 18" FROM THE FLOOR, DATA TO BE PLACED DIRECTLY ABOVE THE POWER OUTLET UNLESS OTHERWISE NOTED.
11. FREEZER ROOM #45 DOES NOT CURRENTLY HAVE A DATA CABLE INGRESS PATH. A PENETRATION WILL BE NECESSARY IN THE LOCATION AS INDICATED IN KEY NOTE C12

WIREMOLD GENERAL NOTES

1. PROVIDE WIREMOLD G4000 DIVIDED RACEWAY FOR ALL SURFACE MOUNTED RACEWAY. PROVIDE ALL FITTINGS AND COVER PLATES AS REQUIRED FOR A COMPLETE INSTALLATION.
2. ALL NEW DATA AND POWER TO BE INSTALLED IN G4000 RACEWAY. INSTALL DATA OUTLETS IN UPPER SECTION AND POWER OUTLET IN LOWER SECTION OF RACEWAY. REFER TO DETAIL 5 ON SHEET LV 3.02.
3. WIREMOLD INSTALLED ABOVE COUNTER TOP IS TO BE MOUNTED ABOVE TOP OF BACKSPLASH. WIREMOLD NOT INSTALLED ABOVE A COUNTER IS TO BE MOUNTED AT 18" AFF.

KEY NOTES

C4	POE DATA PORT FOR WIRELESS ACCESS POINT.
C5	CONDUIT INGRESS, (CONDUIT ENTRY POINT VIA EXISTING WALL PENETRATION).
C6	WIRE MOLD PATH
C7	RJ11 RECEPTACLE FOR FREEZER FARM.
C8	VERTICAL TRANSITION POINT TO LOWER HORIZONTAL OR TEE FROM UPPER HORIZONTAL INGRESS (KEYNOTE C5).
C9	OUTDOOR WIRELESS AP.
C10	CENTURY LINK SERVICE STUB.
C11	EGRESS STRUCTURAL PENETRATION FOR (2) POE DATA CABLES SERVICING C9.
C12	CEILING HEIGHT PENETRATION LARGE ENOUGH TO ACCOMMODATE WIRE MOLD INGRESS.
C13	WIRELESS AP.
C14	POLE MOUNTED DATA RECEPTACLE
C15	DATA RECEPTACLE AT CEILING HEIGHT FOR PROJECTOR.

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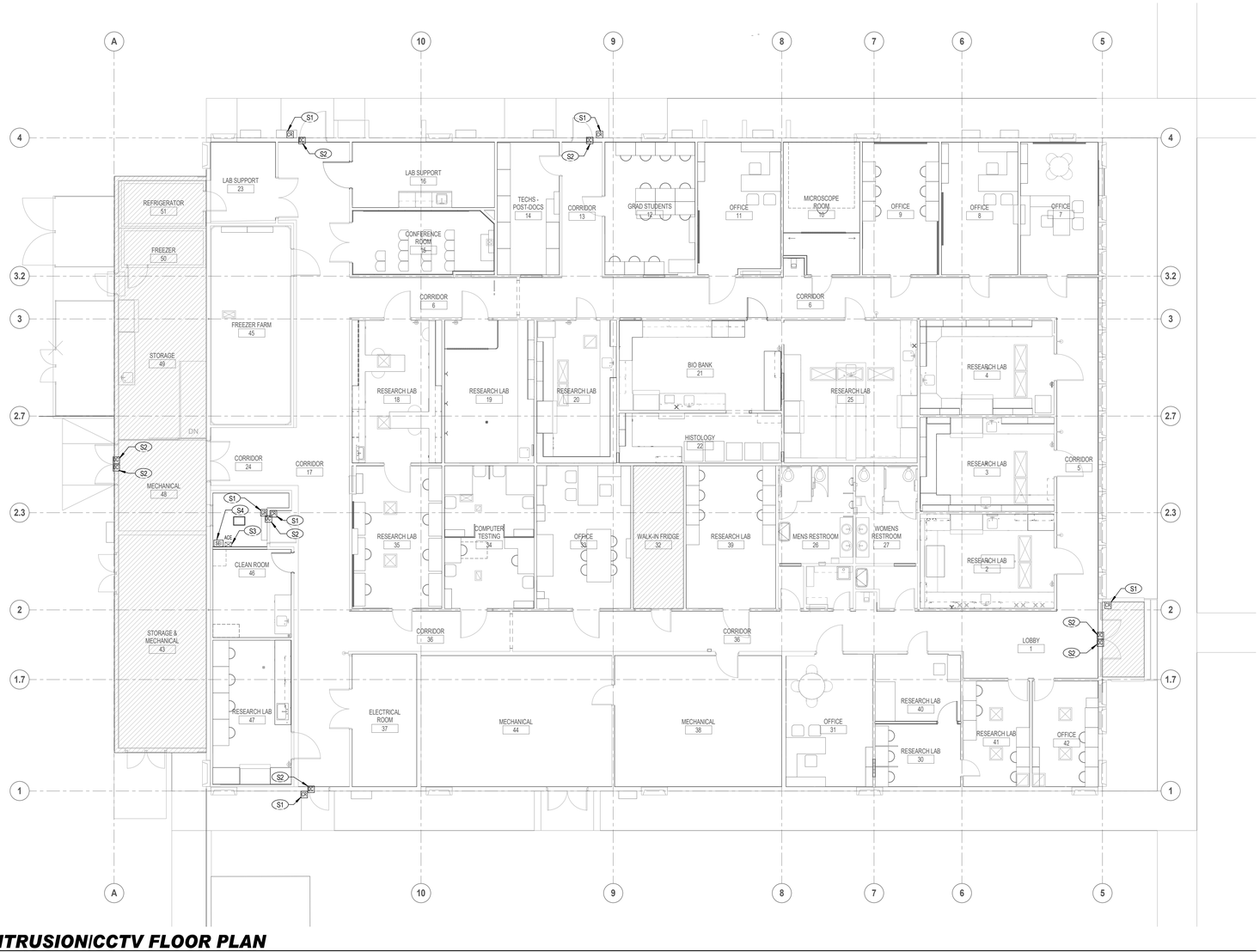
EXP. 12-31-18
ELECTRICAL
No. 23765
November 2, 2017

OWNE: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **COMMUNICATION FLOOR PLAN**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	**LV1.01**



1 INTRUSION/CCTV FLOOR PLAN

SCALE: 1/8" = 1'-0"

4' 8' 16' 32'

GENERAL SHEET NOTES

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 PROTECT 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. IN CASE OF DISCREPANCIES, COORDINATE LOCATIONS OF SECURITY DEVICES WITH UNLV SECURITY SYSTEMS.
4. CONTRACTOR MAY COMBINE CONDUITS FOR RUNS TO SBB OR SCB.
5. ALL INTRUSION ALARM SYSTEM HORIZONTAL CONDUIT SHALL BE 1" MINIMUM. THE CONTRACTOR SHALL BE LIMITED TO A MAXIMUM 40% FILL RATIO THROUGHOUT THE ENTIRE CONDUIT RUN. NO OTHER SYSTEM SHALL BE ROUTED IN CONDUIT DESIGNATED FOR THE INTRUSION ALARM SYSTEM.
6. CONTRACTOR SHALL PROVIDE A PULL BOX AFTER EVERY TWO 90 DEGREE BENDS/SWEEPS FOR ALL CONDUIT RUNS. AT NO TIME SHALL THE PULL BOX BE USED IN LIEU OF A BEND/SWEEP.
7. ALL SERVICE / JUNCTION BOXES SHALL BE LOCATED ABOVE AN ACCESSIBLE CEILING SPACE. REFERENCE SPECIFICATION SECTION 28 16 00 FOR INSTALLATION REQUIREMENTS OF SERVICE / JUNCTION BOXES IN AREAS 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. THE CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING AND INSTALLING NEW CONDUIT, SERVICES BOXES, PULL BOXES, ETC.
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 CONDITION. THE CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING AND INSTALLING CONDUIT ROUGH-IN FOR EACH INTRUSION ALARM DEVICE THAT IS COMPLIANT WITH THE CONTRACT DESIGN DOCUMENTS. CONTRACTOR MAY USE DETAILS IN THE CONSTRUCTION PACKAGE FOR INSTALLATION REFERENCE.

KEY NOTES

S1	CARD READER LOCATION REFER TO THE DOOR DETAIL SHEET LV3.02 FOR CONDUIT LAYOUT AND CABLE REQUIREMENTS COORDINATE THE DOOR HARDWARE AND DOOR FRAME WITH THE ARCHITECT PRIOR TO INSTALLATION ROUTE CONDUIT BACK TO SERVER ROOM. ALL DEVICES THAT HAVE BEEN REMOVED AND REPLACED SHALL BE RETURNED TO UNLV.
S2	DOOR CONTACT LOCATION REFER TO THE DOOR DETAIL SHEET LV3.02 FOR CONDUIT LAYOUT AND CABLE REQUIREMENTS CONDUIT ONLY. TO BE ROUTED BACK TO SERVER ROOM. HARDWARE AND INSTALLATION TO BE PROVIDED BY SECURITY TECHNICIAN. ALL DEVICES THAT HAVE BEEN REMOVED AND REPLACED SHALL BE RETURNED TO UNLV.
S3	SITE CONTROLLER (ACE): ROUTE ACCESS CONTROL CARD READERS BACK TO THIS LOCATION.
S4	SITE ETHERNET INTERFACE (SEI): PROVIDES TCP/IP CONNECTIVITY VIA NETWORK. CONTRACTOR TO COORDINATE NETWORK SWITCH OR PATCH PANEL CONNECTION WITH UNLV IT REPRESENTATIVE.

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ROGELIO ESPARZA
EXP. 12-31-18
ELECTRICAL
No. 23765
November 2, 2017

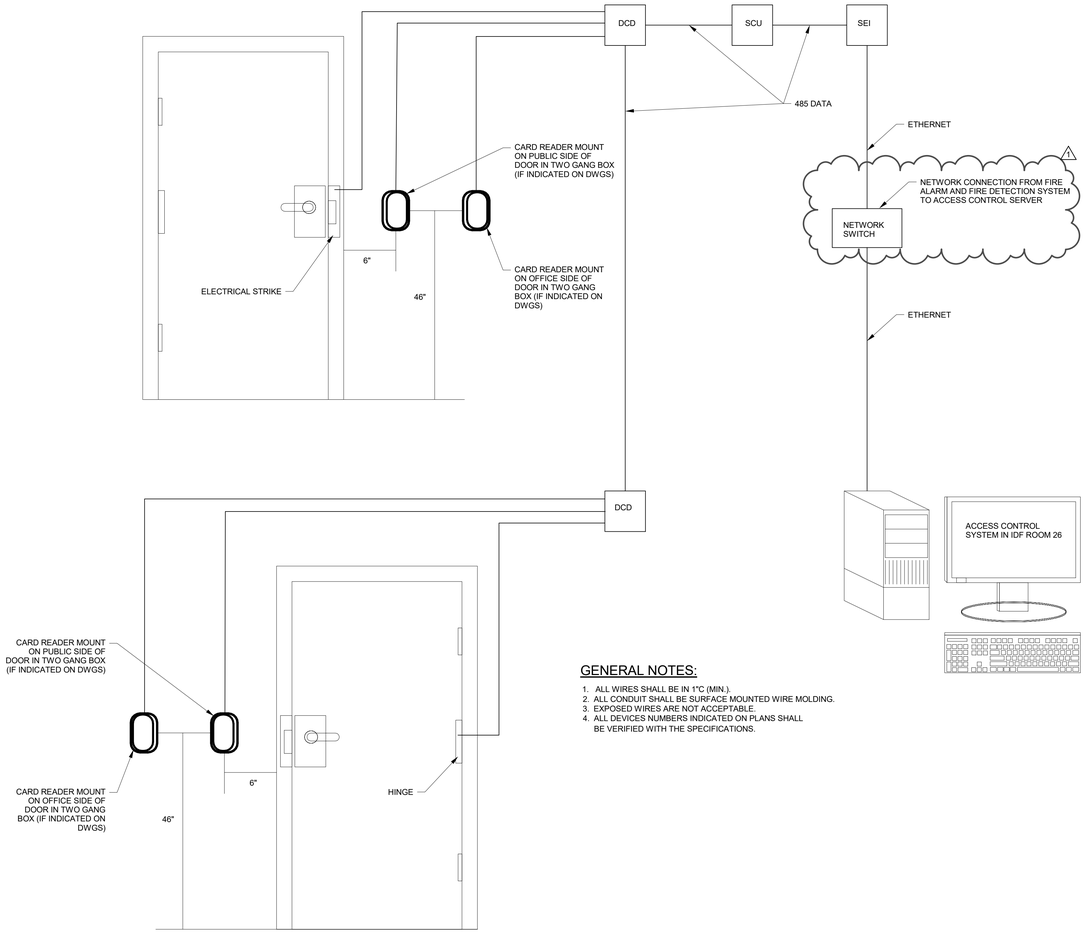
OWNE: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: **UNLV QAL BUILDING - INTERIOR RENOVATION**

SHEET TITLE: **INTRUSION FLOOR PLAN**

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	

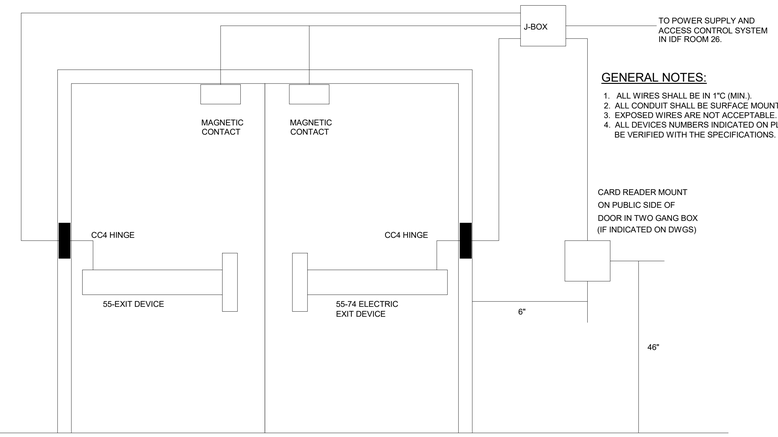
LV3.01



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.

4 MILLENNUM SYSTEM SINGLE LINE
SCALE: 12" = 1'-0"



GENERAL NOTES:

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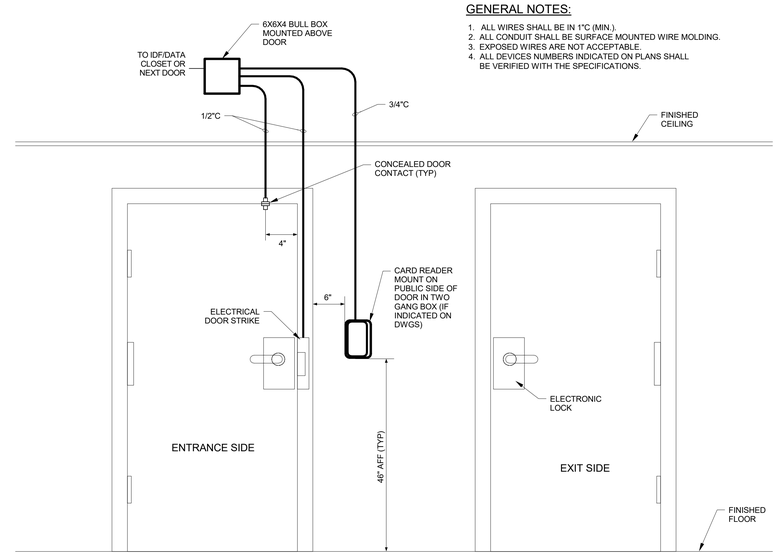
2. ALL CONDUIT SHALL BE SURFACE MOUNTED WIRE MOLDING.
3. EXPOSED WIRES ARE NOT ACCEPTABLE.
4. ALL DEVICES NUMBERS INDICATED ON PLANS SHALL BE VERIFIED WITH THE SPECIFICATIONS.

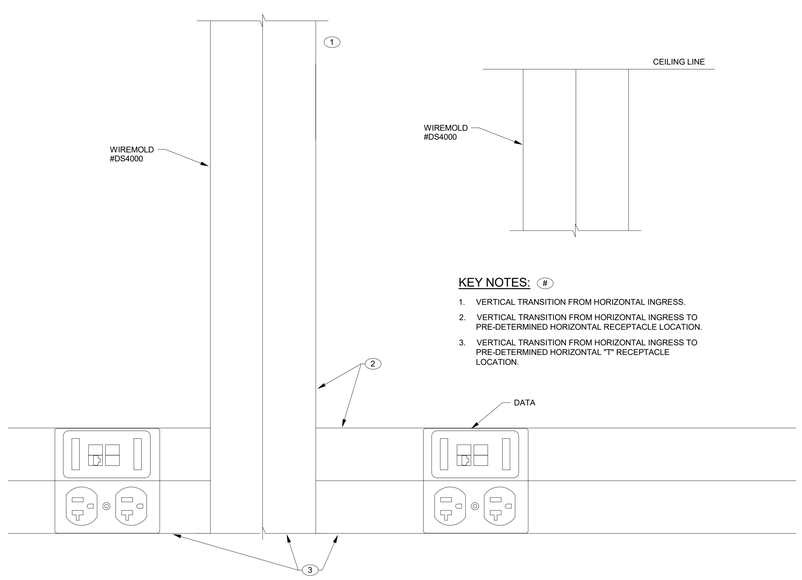
1 TYPICAL 2 DOOR LAYOUT CONFIG
SCALE: 12" = 1'-0"



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.

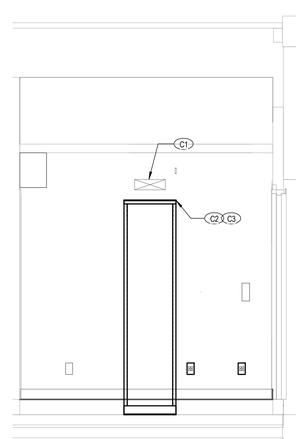
2 TYPICAL SINGLE DOOR WITH DOOR CONTACT AND ELECTRIC LOCK
SCALE: 12" = 1'-0"



KEY NOTES: #

1. VERTICAL TRANSITION FROM HORIZONTAL INGRESS.
2. VERTICAL TRANSITION FROM HORIZONTAL INGRESS TO PRE-DETERMINED HORIZONTAL RECEPTACLE LOCATION.
3. VERTICAL TRANSITION FROM HORIZONTAL INGRESS TO PRE-DETERMINED HORIZONTAL "T" RECEPTACLE LOCATION.

5 WIREMOLD DETAIL
SCALE: 12" = 1'-0"



GENERAL SHEET NOTES

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

KEY NOTES

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

3 DATA RACK DATA ROOM
SCALE: 1/2" = 1'-0"

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ELECTRICAL
No. 23765
November 2, 2017

OWNER: UNIVERSITY OF NEVADA LAS VEGAS (UNLV)

PROJECT NAME: UNLV QAL BUILDING - INTERIOR RENOVATION

SHEET TITLE: AV INTRUSION DETAILS

DATE	November 2, 2017
PROJECT NO.	SCS-1640
SUBMITTAL	Bid Documents
SHEET NO.	LV3.02