

AS-BUILT DRAWING

UNLV School of MEDICINE

SLC-A RENOVATION

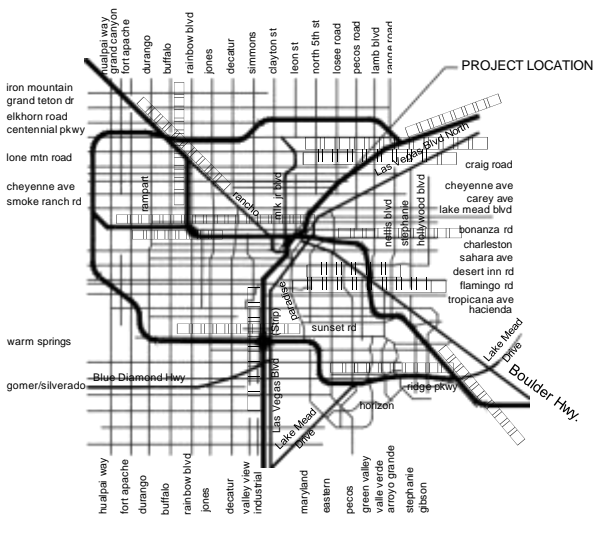
NUMBER	DRAWING TITLE	
ARCHITECTURAL		
G0.00	COVER/SHEET INDEX	
A1.01	FLOOR PLANS/ELEVATIONS/SECTIONS/SCHEDULES	
MECHANICAL		
M0.01	GENERAL INFORMATION	
M0.02	SPECIFICATIONS	
M1.01	MECHANICAL FLOOR PLAN	
M4.01	DIAGRAMS	
PLUMBING		
P0.01	GENERAL INFORMATION	
P0.02	SPECIFICATIONS	
P1.01	PLUMBING PLAN	
P4.01	DIAGRAMS	
ELECTRICAL		
E0.01	GENERAL INFORMATION	
E0.02	SPECIFICATIONS	
E0.21	DEMOLITION PLAN	
E2.01	POWER PLAN	
E5.01	ONE LINE DIAGRAMS AND SCHEDULES	
ZONING CLASSIFICATION:		
URBAN GENERAL (T6-UG)		NO CHANGE
BUILDING CODES:		
2018 INTERNATIONAL BUILDING CODE (IBC)		
2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)		
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)		
2017 NATIONAL ELECTRICAL CODE (NEC)		
2018 UNIFORM PLUMBING CODE (UPC)		
2018 UNIFORM MECHANICAL CODE (UMC)		
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN		
OCCUPANCY CLASSIFICATION:		
(IBC CHAPTER 3)		NO CHANGE
TYPE OF CONSTRUCTION:		
(IBC CHAPTER 6)		NO CHANGE
FIRE SPRINKLERS:		
(IBC 903)		NO CHANGE
FIRE ALARM:		
(IBC 907)		NO CHANGE
BUILDING HEIGHT:		
ALLOWABLE:		UNLIMITED
ACTUAL SHELL BUILDING:		NO CHANGE
NUMBER OF STORIES:		
ALLOWABLE:		UNLIMITED
ACTUAL SHELL BUILDING:		NO CHANGE
ACTUAL TENANT IMPROVEMENT:		1 STORY
BUILDING AREA:		
ALLOWABLE:		UNLIMITED
ACTUAL SHELL BUILDING:		NO CHANGE
ACTUAL TENANT IMPROVEMENT:		306 S.F.
OCCUPANT LOAD FACTOR:		
(IBC 1004)		
USE		SPACE
B (BUSINESS)		LABORATORY
		AREA
		306 S.F.
		LOAD FACTOR
		1 OCC. 50 S.F.
		OCCUPANT LOAD
		7 OCCUPANTS
NUMBER OF EXITS (TENANT IMPROVEMENT):		
(IBC 1015.1, 1021)		1 REQUIRED / 1 PROVIDED (NO CHANGE)
NON-SEPARATED OR SEPARATED USES:		
(IBC 508.3 OR 508.4)		NO MIXED-USE OCCUPANCIES
ROOF COVERING MATERIAL:		
(IBC 506.3 OR 508.4)		NO CHANGE
PLUMBING FIXTURES:		
(IBC 2902)		EXISTING PLUMBING RESTROOM/FIXTURES UTILIZED
		NO CHANGE
E.C.C. COMPLIANCE REPORT:		
(IBC 1301 & 2018 IECC)		REFER TO MECHANICAL AND ELECTRICAL PLANS

MAIN CONTRACTOR:



4023 W.OQUEENDO RD.STE B
LAS VEGAS NV 89118

1001 SHADOW LANE
NORTH LAS VEGAS, NV 89106



VICINITY MAP
1700 W. CHARLESTON BLVD., LAS VEGAS, NV 89102 BUILDING 'A'



CAMPUS MAP
1700 W. CHARLESTON BLVD., LAS VEGAS, NV 89102 BUILDING 'A'

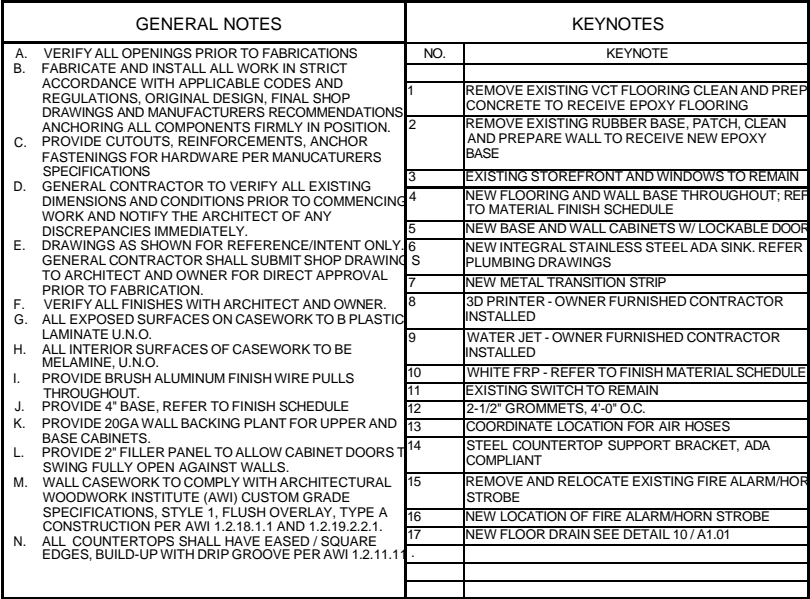


LOCATOR MAP
1700 W. CHARLESTON BLVD., LAS VEGAS, NV 89102 BUILDING 'A'

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

tjk consulting engineers, inc.
8728 Spanish Ridge Avenue
Suite 100
Las Vegas, NV 89148
P: 702.871.3621
F: 702.871.8353
www.tjkengineers.com



[illegible]

MAIN CONTRACTOR:



NEVADA CONTRACTOS B#81273
OFFICE: (702) 434-0046 FAX: (702) 434-0051

ebony@redmesabuilders.com

4023 W.OQUENDO RD.STE B
LAS VEGAS NV 89118

SUB CONTRACTOR:



LICENSE NUMBER : NV #0086266 - & #0087531

AS-BUILT DATE: 12 September, 2023

SIGN: _____

NOTES:

UNLV SLC-A 2310 RENOVATION

1001 SHADOW LANE
NORTH LAS VEGAS,
NV 89106

FLOOR PLAN / CASEWORK

Project Number	23033
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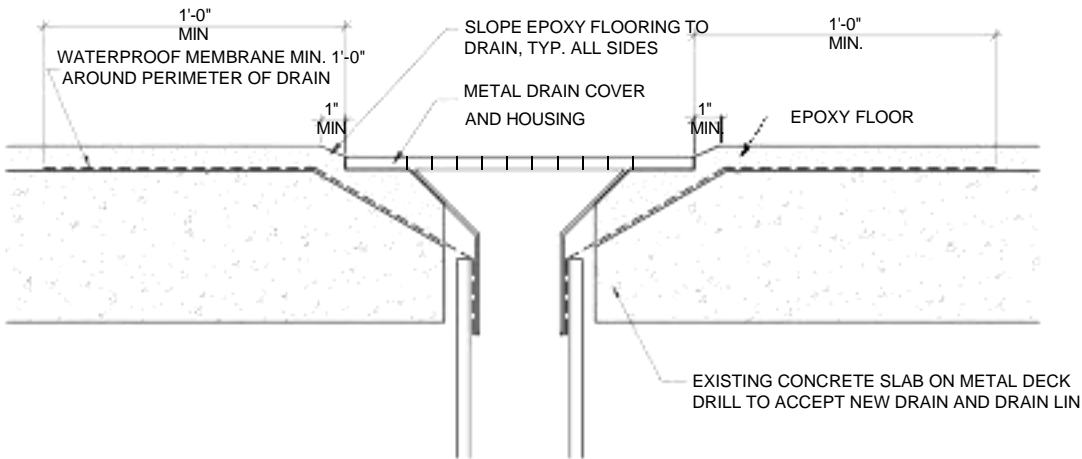
Date 12 September, 2023

Drawn By SA

Checked By SM

A1.01

Scale $1/4" = 1'-0"$



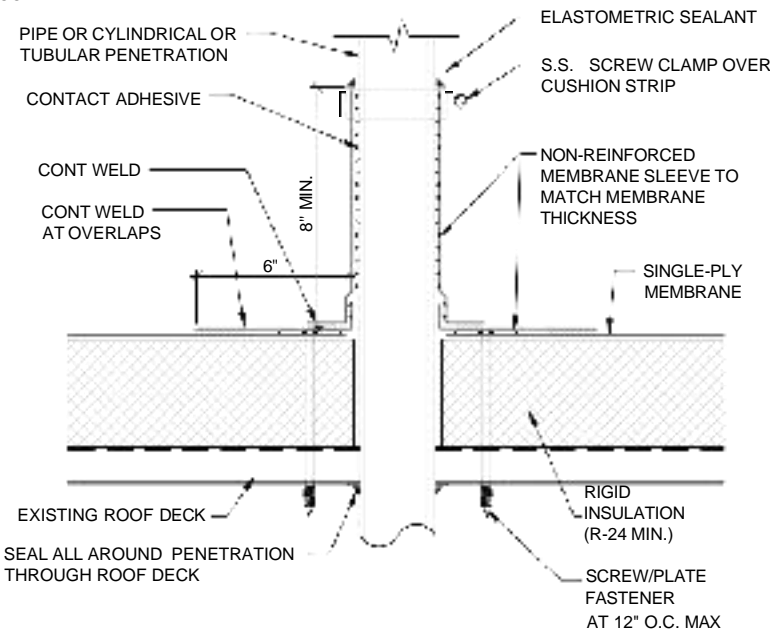
10 EPOXY FLOORING AT DRAIN
SCALE: 1/4" = 1'-0"

GENERAL DETAIL NOTES

**SARNAFIL CERTIFIED
CONTRACTOR TO INSTALL
BOOT**

GENERAL DETAIL NOTES

**SARNAFIL CERTIFIED
CONTRACTOR TO INSTALL
BOOT**



9 ROOF PENETRATION DETAIL

[illegible]

SHEET INDEX		S&B PERMIT SET 05/09/2023
NUMBER	TITLE	
E0.01	GENERAL INFORMATION	●
E0.02	SPECIFICATIONS	●
E0.21	DEMOLITION PLAN	●
E2.01	POWER PLAN	●
E5.01	ONE LINE DIAGRAM & SCHEDULES	●

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LAS VEGAS NV 89118

SUB CONTRACTOR:

The logo for Red Mesa Mechanical features a stylized mountain range with three peaks in red and black. Below the mountains, the words 'RED MESA' are written in large, bold, red capital letters, and 'MECHANICAL' is written in smaller, black, sans-serif capital letters. Underneath the text are three square icons: a fan for HVAC, a flame for fire services, and a snowflake for plumbing services.

LICENSE NUMBER : NV #0086266 - & #0087531

AS-BUILT DATE: 12 September, 2023

SIGN: _____

1001 SHADOW LANE
NORTH LAS VEGAS,
NV 89106

Project Number	23033
Date	12 September, 2023
Drawn By	SA
Checked By	SM

E0.01

12 September, 2023

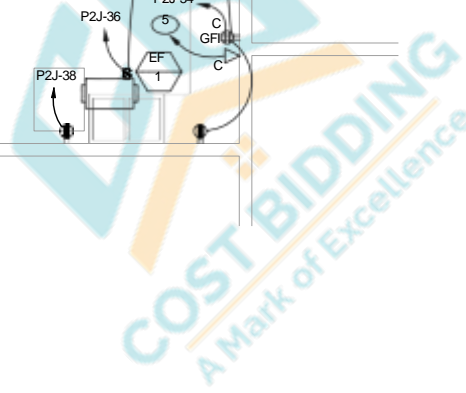
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- A. PROVIDE POWER CONTINUATION TO DOWN STREAM DEVICES.
- B. WIRING SHALL NOT BE ABANDONED IN INACCESSIBLE CONDUITS.
- C. PROVIDE UPDATED, TYPED PANEL DIRECTORIES FOR ALL PANEL BOARDS WITH CIRCUITS MODIFIED, ADDED, OR REMOVED.
- D. EXISTING SHOWN LIGHT DEMO SHOWN DASHED.
- E. PERFORMING ALL WORK WILL NEED TO BE COORDINATED WITH THE OWNER AS THE WORK WILL NEED TO BE PERFORMED DURING OFF HOURS.

1. EXISTING RECEPTACLE TO BE DISCONNECTED AND REMOVED. RECONNECT WITH GFI RECEPTACLE. REFER TO SHEET E2.01.
2. EXISTING DATA OUTLET FLOOR BOX TO BE DISCONNECTED AND REMOVED BACK TO SOURCE. EXISTING FLOOR BOX TO REMAIN IN PLACE.
3. EXISTING ELECTRICAL DEVICE IN FLOOR BOX TO BE DISCONNECTED AND REMOVED. RECONNECT WITH GFI RECEPTACLE. FLOOR BOX TO REMAIN. REFER TO SHEET E2.01.
4. EXISTING DATA OUTLET TO BE DISCONNECTED AND REMOVED. PATCH ANY HOLES IN THE WALL FROM DEMOLITION. ROUTE CONDUCTORS TO NEW DATA OUTLET LOCATION. REFER TO SHEET E2.01.

A red diagonal line crossing the page from the bottom-left to the top-right. The text "AS-BUILT DRAWING" is written in red, bold, capital letters, oriented diagonally along the line.



D. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT LOCATION AND REQUIREMENTS.

E. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

F. EXISTING SHOW LIGHT, NEW WORK SHOW BOLD.

G. THIS DOCUMENT IS NOT THE INCLUSIVE AND CONTRACTOR IS REQUIRED TO FOLLOW THE CURRENT UNILYS CAMPUS WIRING DESIGN GUIDELINES: <https://unluln.edu/cwgd/>

H. THE CONTRACTOR SHALL TEST ALL DATA CABLEING AND PROVIDE TEST RESULTS PER THE CURRENT UNILYS CAMPUS WIRING DESIGN GUIDELINES: <https://unluln.edu/cwgd/>

I. THE CONTRACTOR SHALL PROVIDE WARRANTY FOR ALL FIBER AND DATA CABLEING PER UNILYS CAMPUS WIRING SPECIFICATION.

J. THE CONTRACTOR SHALL UPDATE THE MASTER AS-BUILT CAD FILE PROVIDED BY UNILYS PLANNING AND CONSTRUCTION TO DOCUMENT THE NEW CABLE RUNS INCLUDING BUT NOT LIMITED TO THE CABLE PATH, COUNTRY, CABLE TRAY, JUNCTION BOXES, ETC. AN EXAMPLE OF THE AS-BUILT IS PROVIDED IN THE CAMPUS WIRING DESIGN GUIDELINES FOUND AT: <https://unluln.edu/cwgd/>

K. PERFORMING ALL WORK WILL NEED TO BE COORDINATED WITH THE OWNER AS WORK WILL NEED TO BE PERFORMED DURING OFF HOURS.

1. PROVIDE 4-PORT DATA OUTLET WITH 2 BLANKS. ROUTE 2 DATA CABLES IN 1" CONDUIT TO EXISTING CABLETRAY. ROUTE CABLE TO ELECTRICAL ROOM 200A TBB'.
2. WALL SWITCH TO CONTROL EXHAUST FAN.
3. PROVIDE RECEPTACLE FOR 3D PRINTER
4. PROVIDE RECEPTACLE FOR UPS.
5. PROVIDE 4-PORT DATA OUTLET WITH 2 BLANKS. ROUTE 2 DATA CABLES IN 1" CONDUIT TO EXISTING CABLE TRAY. ROUTE CABLE TO ELECTRICAL ROOM 200A TBB'.

Scale $1/4" = 1'-0"$

1

SCALE: NTS



TJK CONSULTING ENGINEERS ELECTRICAL LOAD CALCULATION				
DATE:	5/30/23	SERVICE VOLTAGE:	208/120V	
JOB:	23005	PHASE & WIRE:	3Ø 4W	
LOAD	CALCULATION		TOTAL LOAD (VA)	TOTAL DEMAND (VA)
EXISTING LOAD ON P2J	29255 VA	29255	29,255	29,255
REMOVED LOAD	180 VA	180	180	180
ADDED LOAD	7,720 VA	50% LOAD	3,860	3,860
TOTAL LOAD		33 KVA		

TJK CONSULTING ENGINEERS
ELECTRICAL LOAD CALCULATION

DATE:	5/10/23	SERVICE VOLTAGE:	208-120V
JOB:	2304	PHASE & WIRE:	3Ø 4W

LOAD	CALCULATION		TOTAL LOAD (VA)	TOTAL DEMAND (VA)
EXISTING LOAD ON P2J	29255 VA	29255	29,255	29,255
REMOVED LOAD	180 VA	180	180	180
ADDED LOAD	7,720 VA	50% LOAD	3,860	3,860

TOTAL LOAD 33 KW

MAIN CONTRACTOR:



ebony@redmesabuilders.com

SUB CONTRACTOR:



AS-BUILT DATE: 12 September, 2023

SIGN: _____

NOTES:

1001 SHADOW LANE
NORTH LAS VEGAS,
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Project Number	23033
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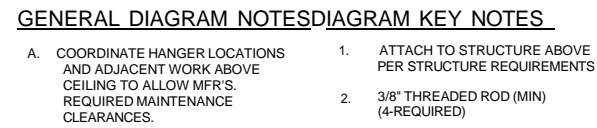
Scale	$1/4" = 1'-0"$
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AS-BUILT DRAWING

ABBREVIATIONS:		LEGEND: (NOTE: NOT ALL SYMBOLS MAY BE USED.)		GENERAL NOTES:																												
AC AD AFF AH AHU AL AP BB B BDD BFC BOB BOD BOP C CD CFM CHWP CHWR CHWS CO CP CWS CWR CT CU CUH CVB CWP DB DS DWP EAT EC EF EJ ER ESP ET EWT EWC FA FC FD FLR FOB FOT FOP FP FPM FTR GC GPM	AIR CONDITIONING UNIT ACCESS DOOR ABOVE FINISHED FLOOR AIR HANDLER AIR HANDLING UNIT ACOUSTICAL LINING ACCESS PANEL ELECTRIC BASEBOARD RADIATION BOILER BACK DRAFT DAMPER BELOW FINISHED CEILING BOTTOM OF BEAM BOTTOM OF DUCT BOTTOM OF PIPE CHILLER CEILING DIFFUSER CUBIC FEET PER MINUTE CHILLED WATER PUMP CHILLED WATER RETURN CHILLED WATER SUPPLY CLEAN OUT CONDENSATE PUMP CONDENSER WATER RETURN CONDENSER WATER SUPPLY COOLING TOWER CONDENSING UNIT CABINET UNIT HEATER CONSTANT VOLUME BOX CONDENSER WATER PUMP DRY BULB DUCT SILENCER DOMESTIC WATER PUMP ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR EXHAUST FAN EXPANSION JOINT EXHAUST REGISTER EXTERNAL STATIC PRESSURE EXPANSION TANK ENTERING WATER TEMPERATURE ELECTRIC WATER COOLER FREE AREA FLEXIBLE CONNECTION FAN COIL UNIT FIRE DAMPER FLOOR FLAT ON BOTTOM FLAT ON TOP FUEL OIL PUMP FIRE PUMP FEET PER MINUTE FINNED TUBE RADIATION GENERAL CONTRACTOR GALLONS PER HOUR GALLONS PER MINUTE	HD HP HV HWC HWP HWR HWS HX HERTZ ID LAT LWT LD LF MAU MC MTD MCO NC NO NOT IN CONTRACT NK OA OAI OAT OC OBD PBD PRV PTAC RA RAG RAR ROP RHC RF SA SAR SCG SD SEF SF SP TG TYP UH UNO VAV VD VTR VB VMS	HAND DAMPER HEAT PUMP HEATING AND VENTILATING UNIT HOT WATER CONVERTER HOT WATER PUMP HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HEAT EXCHANGER HERTZ INSIDE DIAMETER LEAVING AIR TEMPERATURE LEAVING WATER TEMPERATURE LINEAR DIFFUSER LINEAR FEET MAKE-UP AIR UNIT MECHANICAL CONTRACTOR MOUNTED MOTOR OPERATED DAMPER NORMALLY CLOSED NORMALLY OPEN NOT IN CONTRACT NECK OUTSIDE AIR OUTSIDE AIR INTAKE OUTSIDE AIR TEMPERATURE ON CENTER OUTSIDE DIAMETER OPPOSED BLADE DAMPER PARALLEL BLADE DAMPER PRESSURE REDUCING VALVE PACKAGED TERMINAL AIR CONDITIONER RETURN AIR RETURN AIR GRILLE RETURN AIR REGISTER REFLECTED CEILING PLAN REHEAT COIL RETURN FAN SUPPLY AIR SUPPLY AIR REGISTER SMOKE CONTROL GRILLE SMOKE DAMPER SMOKE EXHAUST FAN SUPPLY FAN STATIC PRESSURE TRANSFER GRILLE TYPICAL UNIT HEATER UNLESS NOTED OTHERWISE VARIABLE AIR VOLUME UNIT VOLUME DAMPER VENT THRU ROOF WET BULB WIRE MESH SCREEN	<p>ELBOW UP DIMENSION DESCRIPTION: 14"Ø = ROUND DUCT 24x12 FO = FLAT OVAL DUCT</p> <p>ELBOW DOWN LONG RADIUS ELBOW RADIUS (R) = 1.5 TIMES DIAMETER OF DUCT DIMENSION DESCRIPTION: 1ST FIGURE = SIDE SHOWN 2ND FIGURE = SIDE NOT SHOWN</p> <p>SUPPLY AIR ELBOW UP</p> <p>SUPPLY AIR ELBOW DOWN</p> <p>EXHAUST/RETURN AIR ELBOW UP</p> <p>EXHAUST/RETURN AIR ELBOW DOWN</p> <p>DOUBLE SIDE TRANSITION TRANSITION SLOPE SPECIFICATION: MINIMUM SLOPE = 1° MAXIMUM SLOPE = 45°</p> <p>SINGLE SIDE TRANSITION</p> <p>TOP TRANSITION (SLOPE ON TOP)</p> <p>BOTTOM TRANSITION (SLOPE ON BOTTOM)</p> <p>ACOUSTICALLY LINED SHEET METAL DUCT</p> <p>MANUAL BALANCING DAMPER</p> <p>FLEX CONNECTOR</p> <p>ACCESS DOORS</p> <p>FIRE DAMPER, FIRE/SMOKE DAMPER, SMOKE DAMPER</p> <p>MOTORIZED DAMPER</p> <p>TURNING VANE ELBOW</p> <p>45° LOW-LOSS TAKE-OFF FITTING W/ DAMPER & FLEX DUCT</p> <p>45° LOW-LOSS TAKE-OFF FITTING W/ DAMPER & RIGID DUCT</p> <p>90° TEE TAKE-OFF FITTING</p> <p>CONICAL 90° TEE TAKE-OFF FITTING</p> <p>45° TEE TAKE-OFF FITTING</p> <p>LOW LOSS TAKE-OFF FITTING</p> <p>RETURN AIR GRILLE</p> <p>EXHAUST AIR GRILLE</p> <p>SIDE WALL SUPPLY AIR REGISTER</p> <p>DIFFUSER, REGISTER OR GRILLE 4-WAY THROW PATTERN UNLESS SHOWN OTHERWISE ON DRAWINGS</p> <p>THERMOSTAT - CONTROLLED EQUIPMENT NOTED</p> <p>DIFFUSER OR REGISTER NECK SIZE (INCHES)</p> <p>AIRFLOW (CFM)</p> <p>NUMBER OF TYPICAL UNITS (IF PRESENT)</p>	1. DO NOT SCALE FROM THESE DRAWINGS. DIMENSIONS SHALL BE TAKEN FROM ARCHITECTURAL DRAWINGS.	2. THESE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED ONLY TO DEFINE THE BASIC FUNCTIONS REQUIRED. ACCESSORIES REQUIRED FOR PROPER OPERATION OF THE SYSTEMS, EVEN THOUGH NOT SPECIFICALLY INDICATED, SHALL BE INCLUDED AND INSTALLED. SUCH ACCESSORIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FILTERS, CONDENSATE DRAINS, RELIEF VALVES, SERVICE VALVES, THERMOSTATS, VIBRATION ISOLATORS, MOTOR STARTERS, ETC.	3. SCOPE OF WORK CONSISTS OF FURNISHING LABOR, MATERIALS AND EQUIPMENT FOR THE INSTALLATION. IT ALSO INCLUDES PLACING INTO OPERATION COMPLETE AND OPERABLE HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS AS SPECIFIED AND SHOWN. THIS INCLUDES, BUT IS NOT LIMITED TO: HVAC UNITS, EXHAUST FANS, DUCTLESS SPLIT SYSTEMS, DUCTWORK, AIR DISTRIBUTION, CONTROLS AND ACCESSORIES.	4. ALL REQUIRED OFFSETS, RISES AND DROPS DUE TO POSSIBLE OBSTRUCTIONS OF DUCT AND PIPE RUNS ARE NOT NECESSARILY SHOWN. MECHANICAL CONTRACTOR SHALL INCLUDE A CONTINGENCY IN HIS BID TO OFFSET ANY COST REQUIRED FOR ADDITIONAL FITTINGS AND LABOR THAT MAY BE REQUIRED MINOR DEVIATIONS FROM THE DESIGN LAYOUT IN ROUTING OF DUCT AND/OR PIPING ARE ANTICIPATED AND SHALL BE CONSIDERED A PART OF THE WORK INCLUDED. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.	5. HVAC LAYOUT IS BASED ON ARCHITECTURAL DRAWINGS AVAILABLE AT TIME OF DESIGN. AS STRUCTURAL OR OTHER FIELD CHANGES MAY OCCUR, CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATION OF ALL HVAC EQUIPMENT AND DUCTWORK BEFORE INSTALLATION. MECHANICAL CONTRACTOR SHALL NOTIFY BUILDER OF ANY REQUIRED ALTERATIONS. EITHER CONTRACTOR OR OWNER SHALL TAKE RESPONSIBILITY FOR VERIFYING THE INTEGRITY OF THE CHANGES WITH THE HVAC DESIGN ENGINEER.	6. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, AND LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL HVAC MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THESE RULES, REGULATIONS AND ORDINANCES AT NO ADDITIONAL COST. THESE CODES REPRESENT THE MINIMUM ACCEPTABLE REQUIREMENTS. THEREFORE, WHERE DRAWINGS AND/OR SPECIFICATIONS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF THESE CODE REQUIREMENTS, THE DRAWINGS AND/OR SPECIFICATIONS SHALL GOVERN.	7. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.	8. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS THE RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THE MECHANICAL CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.	9. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT AND ENGINEER PRIOR TO BID SUBMISSION.	10. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTABLE MANUFACTURERS. NO EQUIPMENT SUBSTITUTIONS SHALL BE MADE THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICE SPACE. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES AND IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER. MATERIALS AND EQUIPMENT SHALL BE INSTALLED SQUARELY WITH THE BUILDING LINES.	11. ANY MECHANICAL EQUIPMENT SUBMITTED BY THE CONTRACTOR THAT DEVIATES FROM THE BASIS OF DESIGN AS IDENTIFIED WITH THE SCHEDULED EQUIPMENT CATALOG NUMBERS THAT CAUSE EXTRA COORDINATION BETWEEN OTHER DISCIPLINES WILL BE COORDINATED AND PAID FOR AT THE SOLE COST OF THE CONTRACTOR. ANY DRAWING REVISIONS REQUIRED BY THE DESIGN TEAM SHALL BE PAID FOR BY THE CONTRACTOR TO THE DESIGN TEAM ON AN HOURLY BASIS.	12. CONSTRUCT AND BRACE EQUIPMENT, PIPING, ETC., SO THAT THERE WILL BE NO VIBRATION AND/OR RATTLING WHEN THE SYSTEM IS IN OPERATION.	13. SPECIFIC REFERENCE TO A MANUFACTURER'S PRODUCT IS ONLY TO ESTABLISH TYPE, QUALITY, AND PERFORMANCE REQUIRED. THESE QUALIFICATIONS ARE IN ADDITION TO THE REQUIREMENTS SHOWN ON THE PLANS.	14. FABRICATE, SUPPORT, TEST AND INSTALL ALL DUCTWORK IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA H.V.A.C. DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE - SECOND EDITION AND ALL APPLICABLE BUILDING CODES.	15. ALL OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10' FROM ANY PLUMBING VENT, EXHAUST, AND FLUE OUTLETS.	16. EXHAUST DUCTS SHALL TERMINATE THREE (3) FEET FROM ANY BUILDING OPENING AND BE EQUIPPED WITH A BACKDRAFT DAMPER. SCREENS SHALL NOT BE INSTALLED AT THE DUCT TERMINATION.	17. ALLOW 24" TO 36" OF STRAIGHT RUN FROM FAN OUTLET POINT BEFORE ADDING AN ELBOW OR BEND TO EXHAUST DUCTWORK.	18. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.	19. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING, ADJUSTING, AND BALANCING (T.A.B.) T.A.B. WORK SHALL INCLUDE THE ENTIRE AIR-SIDE SYSTEM AND BE PERFORMED IN ACCORDANCE WITH NEBB OR AABC REQUIREMENTS. TOLERANCES FOR AIR INLETS AND OUTLETS SHALL BE +/- 5% UNLESS NOTED OTHERWISE.	20. CONTRACTOR SHALL INSPECT ANY EXISTING DUCTWORK FOR DEFECTS AND REPORT TO THE ARCHITECT/ENGINEER AND THE OWNER ANY DEFICIENCIES PRIOR TO PERFORMING ANY WORK. CONTRACTOR SHALL CLEAN ALL EXISTING DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS PRIOR TO INSTALLING THE NEW WORK.	21. CONTRACTOR SHALL PAINT BLACK BEHIND ALL GRILLES AND REGISTERS AND INSIDE OF DUCT WHERE VISIBLE.	22. UNLESS NOTED OTHERWISE, DUCTWORK BEYOND SA & RA PLenums MAY BE CONSTRUCTED OF METAL, OR FACTORY-MANUFACTURED INSULATED DUCTWORK.	23. ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS WHETHER SHOWN OR NOT.	24. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.	25. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE.	26. ALL MATERIALS OF INSULATION SHALL BE OF THE TYPE AND QUALITY AS MANUFACTURED BY ARMSTRONG, CERTAINTED, OWENS-CORNING OR MANVILLE. ALL MATERIAL AND EQUIPMENT SPECIFIED TO BE INSULATED SHALL BE THOROUGHLY TESTED AND APPROVED PRIOR TO APPLYING THE INSULATION. THE INSTALLATION OF ALL INSULATION SHALL BE PERFORMED BY AN EXPERIENCED CRAFTSMAN IN A NEAT WORKMANSHIP-LIKE MANNER AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR SERVICE INTENDED.	27. WRAPPED INSULATION ON DUCTWORK SHALL BE 1-1/2 INCH THICK GLASS FIBER FLEXIBLE DUCT INSULATION, ONE POUND DENSITY WITH UL APPROVED FOIL SCRIM KRAFT FRJ JACKET. SECURE WITH ADHESIVE APPLIED DIRECTLY TO THE DUCT IN 4 INCH WIDE STRIPS AROUND THE DUCT ON 12 INCH CENTERS AND TAPE ALL JOINTS.	28. ACOUSTICAL DUCT LINING SHALL BE 1 INCH THICK OWENS-COR

(2

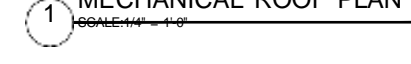
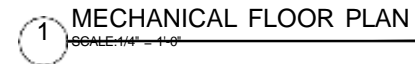
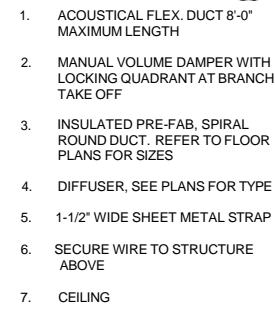
SCALE: NOT TO SCALE



1. ATTACH TO STRUCTURE ABOVE
PER STRUCTURE REQUIREMENTS
2. 3/8" THREADED ROD (MIN)
(4-REQUIRED)
3. FACTORY HANGER VIBRATION
ISOLATOR
4. FLEX CONNECTION (TYP.)



~~SCALE: NOT TO SCALE~~



NOTES:

Scale	1/4" = 1'-0"
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[illegible][illegible]

MAIN CONTRACTOR



NEVADA CONTRACTOS B#81273
OFFICE: (702) 434-0046 FAX: (702) 434-0051

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4023 W.OQUENDO RD.STE B
LAS VEGAS NV 89118

SUB CONTRACTOR



LICENSE NUMBER : NV #0086266 - & #0087531

AS-BUILT DATE: 12 September, 2023

SIGN: _____

NOTES

UNLV SLC-A 2310 RENOVATION

1001 SHADOW LANE
NORTH LAS VEGAS,
NV 89106

GENERAL INFORMATION

Project Number	23033
Date	12 September, 2023
Drawn By	SA
Checked By	SM

P0.01

Scale $1/4" = 1'-0"$

[illegible]

AS-BUILT DRAWING

PLUMBING FIXTURE SCHEDULE								
MARK	ITEM	DESCRIPTION	CONNECTIONS				MANUFACTURER	MODEL
			COLD	HOT	WASTE	VENT		
CT-1	CLAY TRAP	TOP ACCESS ACID RESISTANT COATED FABRICATED STEEL SOLIDS INTERCEPTOR IN LIEU OF FUTURE P-TRAP, FOR SUSPENDED INSTALLATION. COORDINATE LOCATION IN SINK CABINET PRIOR TO CONSTRUCTION. FURNISH WITH FABRICATED STEEL REMOVABLE BASKET AND STAINLESS STEEL REMOVABLE SCREENS. PROVIDE COMPLETE WITH GASKETED SECURED COVER, PROVIDE WITH 1-1/2" LOW INLET AND HIGH OUTLET.	-	-	1-1/2"	-	ZURN	Z1180
EEW-1	EMERGENCY EYEWASH	STAINLESS STEEL FAUCET MOUNTED SWIVEL EYE/FACE WASH WITH DUCT COVERS, COMPLETE WITH REQUIRED SIGNAGE.	-	-	-	-	HAWS	7620
FS-1	FLOOR SINK (STAINLESS)	12"x12"x8" FLOOR SINK, STAINLESS STEEL BODY AND GRATE COMPLETE. WITH STAINLESS STEEL DOME STRAINER. PROVIDE GRATE PER PLANS. (PROVIDE WITH JOSAM 88240 TRAP SEAL.)	-	-	2"	1-1/2"	JOSAM	49340
S-1	SINK (SINGLE) (COUNTER MOUNT)	15-1/2"x15-1/2"x8-1/8" COUNTER MOUNT SINGLE COMPARTMENT STAINLESS STEEL SINK. PROVIDE WITH ELKAY K18716 FAUCET AND ELKAY STRAINER. COORDINATE FAUCET HOLES PRIOR TO ORDERING. PROVIDE WITH STOP. EEW-1 & CT-1	-	-	2"	1-1/2"	JOSAM	49340
WCO	WALL CLEANOUT	ROUND STAINLESS STEEL WALL ACCESS COVER COMPLETE WITH SECURING SCREW AND BRONZE RAISED HEX HEAD PLUG COMPLETE. WITH VANDAL PROOF SCREWS. COORDINATE HEIGHT WITH FLOOR BASE.	-	-	SEE PLANS	-	JOSAM	58600-PLG-VP
RPZ-1	BACKFLOW PREVENTOR	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR COMPLETE WITH FULL PORT QUARTER TURN BALL VALVES. PROVIDE WITH Y-TYPE STRAINER AND AIR GAP FITTING. ROUTE DISCHARGE TO NEAREST APPROVED RECEPTOR.	1/2"	-	-	-	WATTS	SERIES LF009

PIPING MATERIAL SCHEDULE						
SERVICE	LOCATION	SIZES	PIPE MATERIAL	JOINTS	FITTINGS	NOTES
DOMESTIC COLD AND HOT WATER	ABOVE GRADE	2" AND SMALLER	HARD DRAWN TYPE L COPPER PIPE	LEAD FREE SOLDER	WROUGHT COPPER	
DOMESTIC COLD AND HOT WATER	ABOVE GRADE	2" AND SMALLER	PEXA	EXPANSION	MATCH PIPE	INSTALL PER UMC IN PLENUM SPACES.
COMPRESSED AIR	ALL	ALL	HARD DRAWN TYPE L COPPER PIPE	LEAD FREE SOLDER	WROUGHT COPPER	
COMPRESSED AIR	ALL	ALL	SCHEDULE 40 PVC	SOLVENT WELD	MATCH PIPE	
DRAIN	ALL	ALL	HARD DRAWN TYPE M COPPER PIPE	LEAD FREE SOLDER	WROUGHT COPPER	PROVIDE AIR GAP AS REQUIRED BY UPC AT TERMINATION ABOVE RECEPTOR.
DRAIN	ALL	ALL	SCHEDULE 40 PVC	SOLVENT WELD	MATCH PIPE	PROVIDE AIR GAP AS REQUIRED BY UPC AT TERMINATION ABOVE RECEPTOR.
SANITARY WASTE AND VENT	ALL	ALL	CAST IRON	NO HUB	MATCH PIPE	DOMESTIC MANUFACTURED CAST IRON PRODUCTS ONLY.
SANITARY WASTE AND VENT	ALL	ALL	SCHEDULE 40 PVC	SOLVENT WELD	MATCH PIPE	INSTALL PER UMC IN PLENUM SPACES.
SANITARY WASTE AND VENT	ALL	ALL	SCHEDULE 40 OR 80 CPVC	SOLVENT WELD	MATCH PIPE	INSTALL PER UMC IN PLENUM SPACES.

NOTES:
1. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
2. CONFIRM ALL PIPING MATERIALS ARE ACCEPTABLE WITH LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO CONSTRUCTION.

GENERAL SHEET NOTES:

- EXISTING PLUMBING LAYOUT IS BASED ON DRAWINGS AND INFORMATION AVAILABLE AT THE TIME OF DESIGN. EXISTING CONDITIONS MAY BE DIFFERENT THAN WHAT IS SHOWN. IF EXISTING CONDITIONS VARY SIGNIFICANTLY, AS TO ADD OR DIMINISH FROM THE SCOPE OF THE WORK, THE CONTRACTOR SHALL NOTIFY ENGINEER AND/OR OWNER.
- ALL DENOTED 'E' EXISTING ITEMS ARE DEPICTED FOR REFERENCE AND ARE FROM EXISTING RECORD DOCUMENTS. THESE MAY NOT DEPICT EXACT EXISTING ITEM LOCATIONS. CONTRACTOR SHALL USE THESE ITEMS AS A REFERENCE AND SHALL FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH THE OWNER FOR CARRYING OUT THE WORK FOR TYING IN NEW SERVICES INTO EXISTING SERVICES. SINCE THIS WORK WILL NEED TO BE PERFORMED DURING THE PEAK HOURS OF THE DAY, THE CONTRACTOR SHALL

KEYNOTES:

1. ROUTE NEW 1/2" DOMESTIC HOT AND COLD WATER LINE IN CEILING SPACE, FIVE' EXISTING HOT AND COLD WATER LINE ABOVE RESTROOMS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION THESE CONDITIONS SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING LOCATION, PIPE SIZE, AND CAPACITY FOR ADDED FUTURE LOAD.
2. ROUTE NEW 2" WASTE LINE IN THE CEILING SPACE OF THE FLOOR BELOW TO THE INTO THE EXISTING WASTE LINE.
3. POINT OF CONNECTION OF NEW 2" WASTE LINE INTO EXISTING VERTICAL 2" WASTE LINE IN CEILING SPACE OF THE FLOOR BELOW. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION THESE CONDITIONS SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING LOCATION, PIPE SIZE, AND CAPACITY FOR ADDED FUTURE LOAD.
4. ROUTE 1/2" DOMESTIC COLD WATER LINE DOWN WALL TO WATER JET SYSTEM.
5. ROUTE 1/2" DOMESTIC HOT AND COLD WATER LINES DOWN WALL TO SINK.
6. WATER JET DRAIN LINE DOWN TO DISCHARGE TO FLOOR SINK, WITH MINIMUM 1" AIR GAP.
7. WASTE/VENT TO ROOF FUTURE. SIZE PER FIXTURE SCHEDULE.
8. POINT OF CONNECTION IN CEILING SPACE BELOW OF NEW 1/2" COMPRESSED AIR TO EXISTING COMPRESSED AIR SYSTEM.
9. 1/2" COMPRESSED AIR RISE TO NEW DENTAL WORK STATION. PROVIDE WITH QUICK DISCONNECT FITTING FOR FUTURE FIXTURE.
10. EXISTING COMPRESSED AIR LOOP IN CEILING SPACE OF FLOOR BELOW.
11. 1-1/2" VTR.

[illegible]

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LICENSE NUMBER : NV #0086266 - & #0087531

AS-BUILT DATE: 12 September, 2023

SIGN: _____

NOTES:

UNLV SLC-A 2310
RENOVATION

1001 SHADOW LANE
NORTH LAS VEGAS,
NV 89106

PLUMBING PLAN

Project Number	230333
Date	12 September, 2023
Drawn By	SA
Checked By	SM
<div style="text-align: center; font-size: 2em; font-weight: bold;">P1.01</div>	
Scale	1/4" = 1'-0"

		12 September 2023
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