




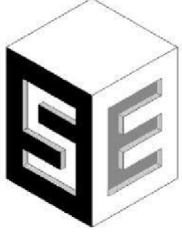


# Nevada Health Centers MLK Family Health Center Pharmacy / BH Offices / Additional Exam Space Renovations

1799 Mount Mariah Drive  
Las Vegas, NV 89106

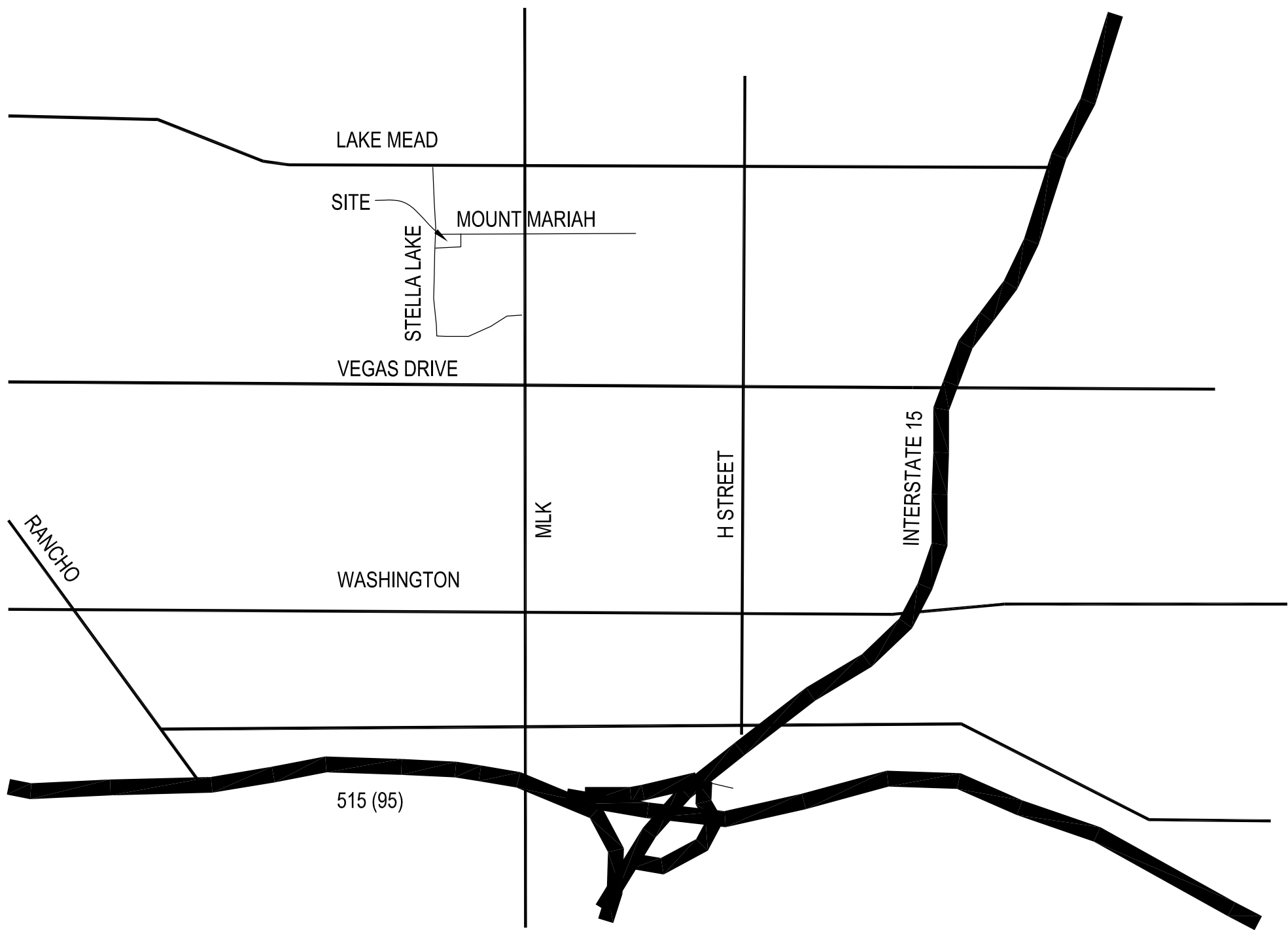
Project Number 1007689.00



## PROJECT DIRECTORY:

CLIENT	
	<b>NEVADA HEALTH CENTER, INC</b> 3325 RESEARCH WAY CARSON CITY, NV 89706 STACEY GIOMI 775 887 1590
ARCHITECT	
	<b>PGAL</b> 7373 PEAK DR, STE 170 LAS VEGAS, NV 89128 BENJAMIN GIRARDIN / AVE ONG 702 435 4448
INTERIOR DESIGN	
	<b>PGAL</b> 7373 PEAK DR, STE 170 LAS VEGAS, NV 89128 LORA HUNSAKER 702 435 4448
STRUCTURAL ENGINEERING	
	<b>SOLID ENGINEERING</b> 8030 CAPE FLATTERY AVE. LAS VEGAS, NV 89147 XIAOPING YAO 702 630 9571
MECHANICAL/PLUMBING ENGINEERING	
	<b>HAVA Engineering, LLC</b> 8681 W. SAHARA AVE, STE 220 LAS VEGAS, NV 89117 ALI JAVAN 949 524 9851
ELECTRICAL ENGINEERING	
	<b>AGA &amp; ASSOCIATES, INC.</b> P.O. BOX 370114 LAS VEGAS, NV 89137 ARNEL ARCHES 702 461 2766

## LOCATION MAP



## GENERAL INFORMATION:

PROJECT SCOPE:	RENOVATIONS WITHIN EXISTING SPACE TO ACCOMODATE AN EXPANDED PHARMACY. THE PHARMACY IS BEING RELOCATED TO AN EXISTING UNDER UTILIZED WAITING AREA. EXISTING PHARMACY SPACE WILL BE CONVERTED TO 4 ADDITIONAL EXAM ROOMS AND AN MA WORK STATION. TWO NEW PRIVATE OFFICES ARE BEING CREATED WITHIN AN EXISTING OPEN OFFICE AREA ON THE SECOND FLOOR. THERE IS A SECOND FLOOR ADDITION TO ENCLOSE A PORTION OF AN EXISTING SECOND FLOOR PATIO AREA FOR NEW BEHAVIORAL HEALTH COUNSELING OFFICES.
JURISDICTION:	CITY OF LAS VEGAS / ENTERPRISE PARK
CODES:	2021 IBC, 2018 IECC, 2018 UMC, 2018 UPC, 2009 ANSI: 117.1, 2017 NEC (NFPA 70), AND 2021 IFC. ALL THE ABOVE INCLUDE THE SO. NV. AMENDMENTS
PROJECT TITLE:	NEVADA HEALTH CENTERS MLK FAMILY HEALTH CENTER PHARMACY / BH OFFICES / ADDITIONAL EXAM SPACE RENOVATIONS
OWNER:	NEVADA HEALTH CENTER, INC. 3325 RESEARCH WAY CARSON CITY, NV 89706 P. (775) 888-6661 CONTACT: STACEY GIOMI

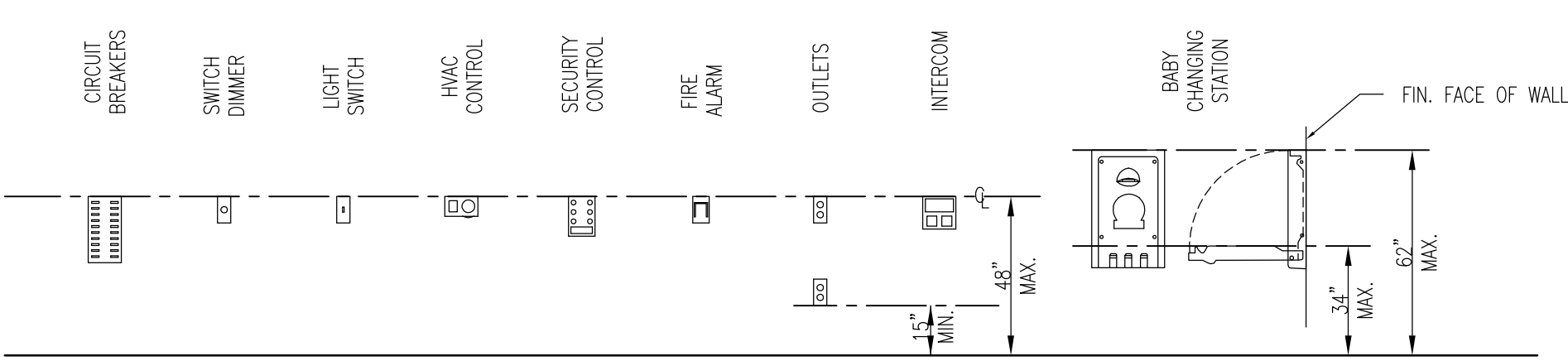


ORDER NO.	SHEET NO.	SHEET NAME	PERMIT SET - 08/02/2024		
1	CVR	COVER SHEET, SCOPE OF WORK AND SHEET INDEX	X		
GENERAL					
2	G0.00	REFERENCE	X		
3	G0.01	CODE ANALYSIS	X		
4	G0.02	LIFE SAFETY - GROUND FLOOR	X		
5	G0.03	LIFE SAFETY - SECOND FLOOR	X		
			X		
ARCHITECTURAL					
6	AS1.00	ARCHITECTURAL SITE PLAN (FOR REFERENCE ONLY), PROJECT INFORMATION	X		
7	AP.00	PHASING PLAN	X		
8	D1.00	GROUND FLOOR OVERALL DEMOLITION PLAN	X		
9	D1.10	GROUND FLOOR ENLARGED PARTIAL DEMOLITION PLAN	X		
10	D2.00	SECOND FLOOR OVERALL DEMOLITION PLAN	X		
11	D2.10	SECOND FLOOR ENLARGED PARTIAL DEMOLITION PLAN	X		
12	D3.10	GROUND FLOOR ENLARGED PARTIAL DEMOLITION CEILING PLAN	X		
13	D3.20	SECOND FLOOR ENLARGED PARTIAL DEMOLITION CEILING PLAN	X		
14	A1.00	GROUND FLOOR OVERALL FLOOR PLAN	X		
15	A1.10	GROUND FLOOR ENLARGED PARTIAL FLOOR PLANS	X		
16	A1.20	STAIR 102 PLANS, SECTION AND DETAILS	X		
17	A2.00	SECOND FLOOR OVERALL FLOOR PLAN	X		
18	A2.10	SECOND FLOOR ENLARGED FLOOR PLAN	X		
19	A3.10	GROUND FLOOR ENLARGED PARTIAL CEILING PLANS	X		
20	A3.20	SECOND FLOOR ENLARGED PARTIAL CEILING PLAN	X		
21	A3.30	CEILING DETAILS	X		
22	A4.00	OVERALL ROOF PLAN	X		
23	A4.30	ROOF DETAILS	X		
24	A5.00	EXTERIOR ELEVATION	X		
25	A5.10	BUILDING SECTIONS, INTERIOR ELEVATIONS	X		
26	A6.00	MILLWORK DETAILS	X		
27	A7.00	DOOR SCHEDULE AND DETAILS	X		
STRUCTURAL					
28	S-1	FOUNDATION PLAN	X		
29	S-2	PARTIAL 2ND FLOOR FRAMING PLAN	X		
30	S-3	PARTIAL ROOF FRAMING PLAN	X		
31	S-5.1	DETAILS	X		
32	S-5.2	DETAILS	X		
33	S-5.3	DETAILS	X		

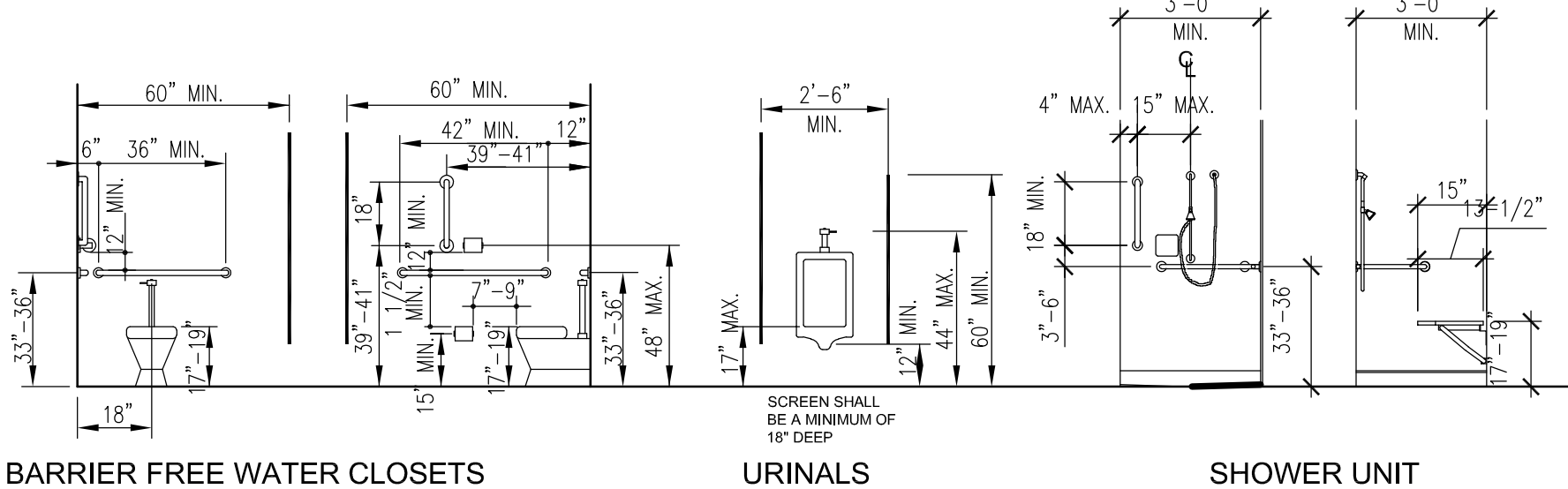
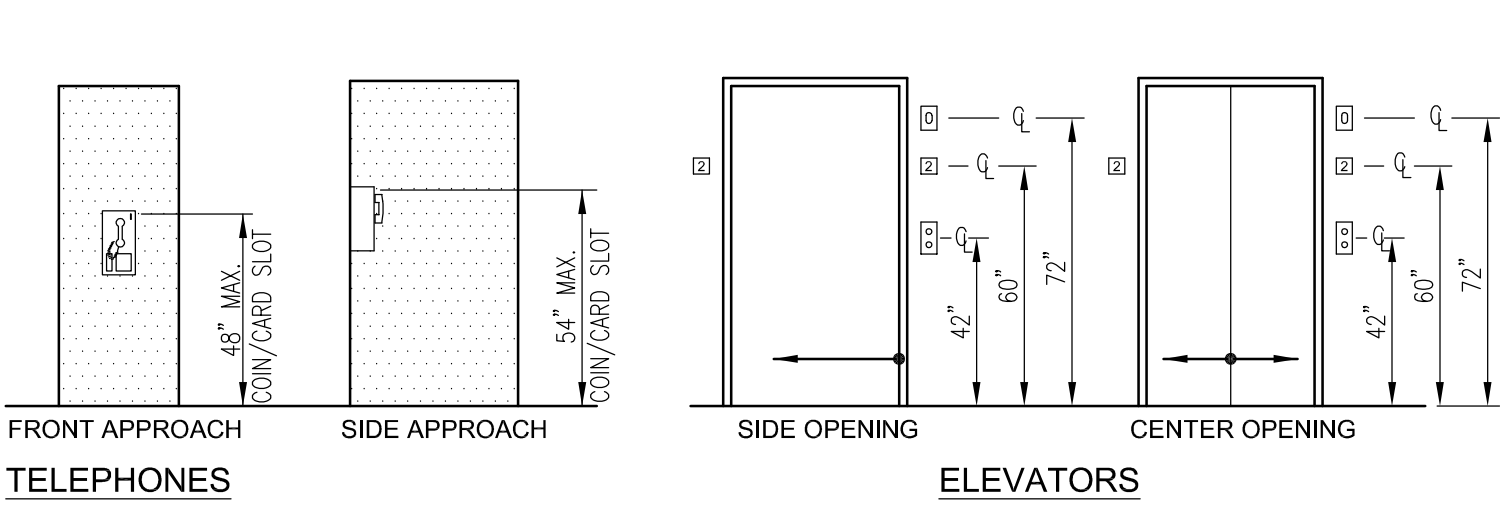
ORDER NO.	SHEET NO.	SHEET NAME	PERMIT SET - 08/02/2024		
MECHANICAL					
34	M0.01	MECHANICAL COVER SHEET	X		
35	M0.02	MECHANICAL SCHEDULES	X		
36	M0.03	MECHANICAL DETAILS	X		
37	M0.04	MECHANICAL SPEVIFICATION	X		
38	M0.05	MECHANICAL SPEVIFICATION	X		
39	M1.00	MECHANICAL GROUND FLOOR PLAN - NEW WORK	X		
40	M2.00	MECHANICAL SECOND FLOOR PLAN - NEW WORK	X		
41	M3.00	MECHANICAL ROOF PLAN	X		
42	MD1.00	MECHANICAL GROUND FLOOR PLAN - DEMOLITION	X		
43	MD3.00	MECHANICAL ROOF PLAN - DEMOLITION	X		
PLUMBING					
44	P0.01	PLUMBING COVER SHEET	X		
45	PD1.00	PLUMBING GROUND FLOOR PLAN - DEMOLITION	X		
46	PD2.00	PLUMBING SECOND FLOOR PLAN - DEMOLITION	X		
47	P1.00	PLUMBING GROUND FLOOR PLAN - NEW WORK	X		
48	P2.00	PLUMBING SECOND FLOOR PLAN - NEW WORK	X		
49	P3.00	PLUMBING ROOF PLAN	X		
ELECTRICAL					
50	E1.00	SYMBOL, GENERAL NOTES	X		
51	E2.00	SINGLE LINE DIAGRAMS	X		
52	E3.00	PANEL SCHEDULES	X		
53	E4.00	DEMOLITION PLAN FIRST AND SECOND FLOOR	X		
54	E5.01	POWER PLAN FIRST FLOOR AREA 1 AND 2	X		
55	E5.02	POWER PLAN SECOND FLOOR AREA 1 AND 2	X		
56	E6.01	LIGHTING PLAN FIRST FLOOR AREA 1 AND AREA 2	X		
57	E6.02	LIGHTING PLAN SECOND FLOOR AREA 1	X		
58	E7.00	IECC REQUIREMENTS	X		
59	E7.01	ATS DETAIL	X		



MOUNTING HEIGHTS



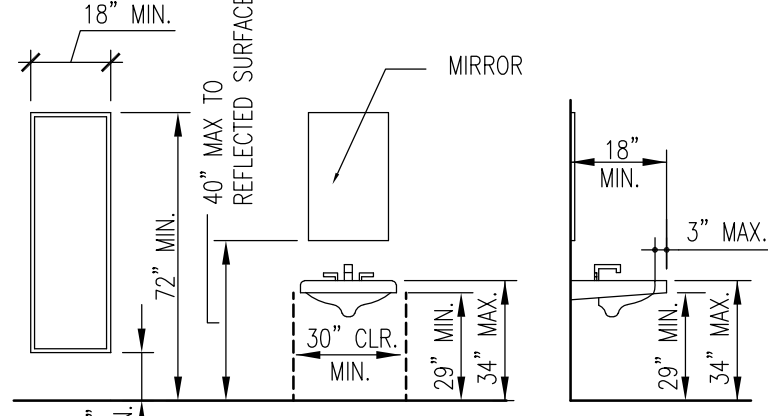
CONVENIENCE CONTROLS AND OUTLETS



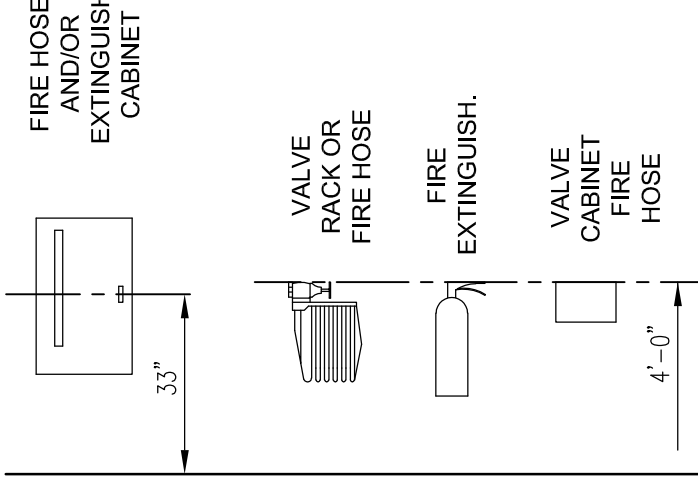
BARRIER FREE WATER CLOSETS

URINALS

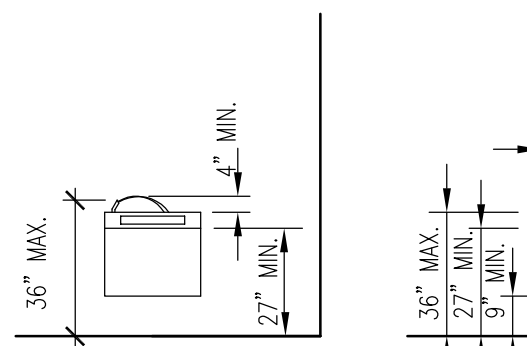
SHOWER UNIT



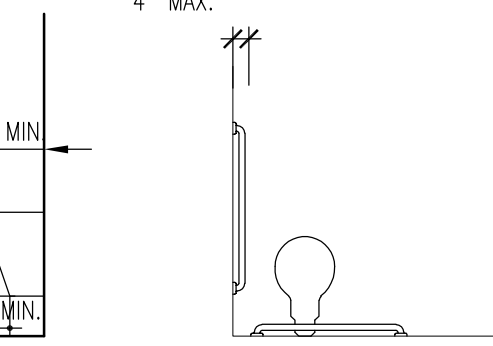
BARRIER FREE LAVATORIES



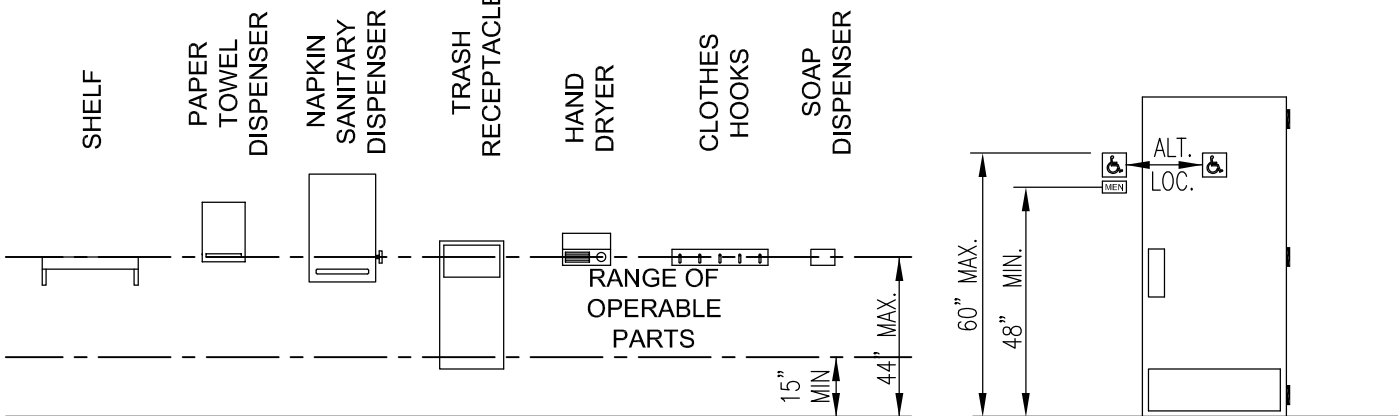
FIRE EXTINGUISHER EQUIPMENT



DRINKING FOUNTAIN/ ELECTRIC WATER COOLER

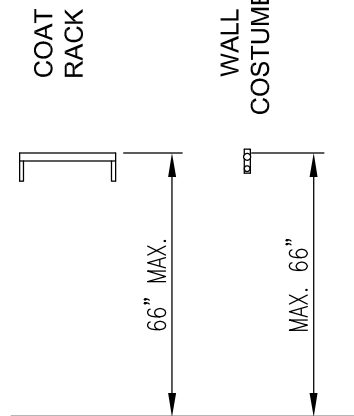


STALL LAYOUT



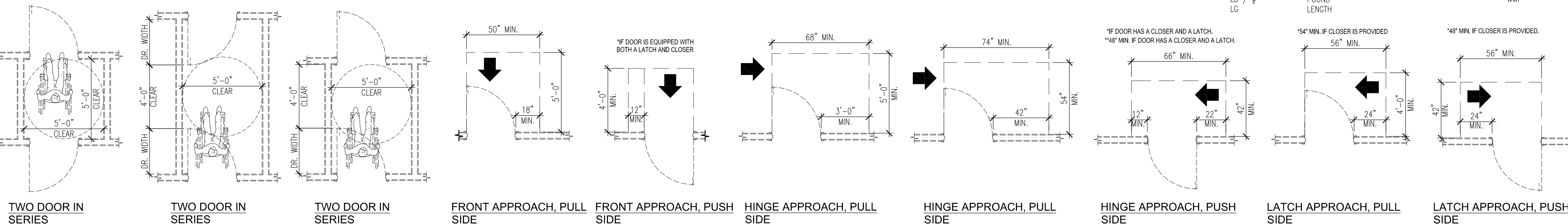
TOILET ROOM ACCESSORIES

TOILET ROOM SIGNAGE

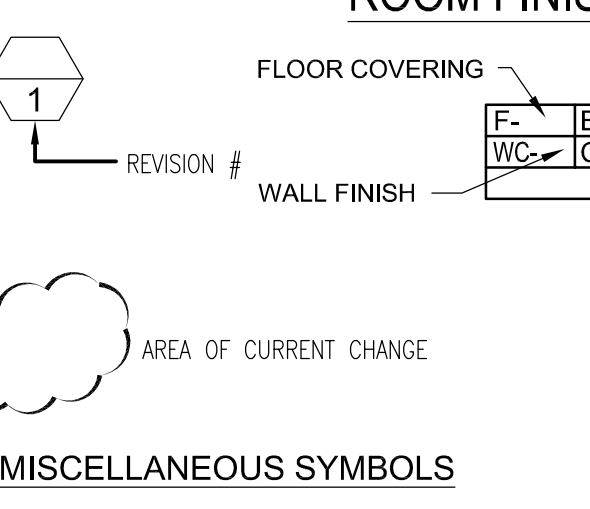
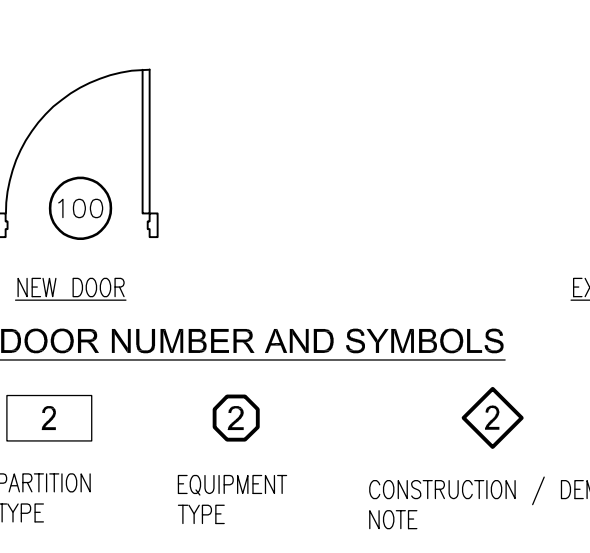
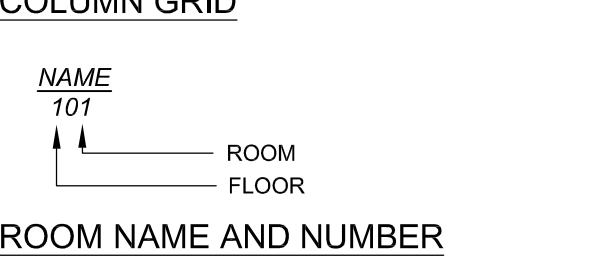
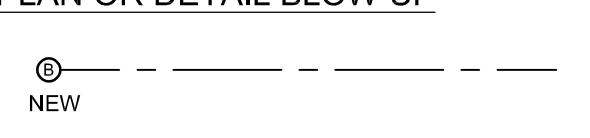
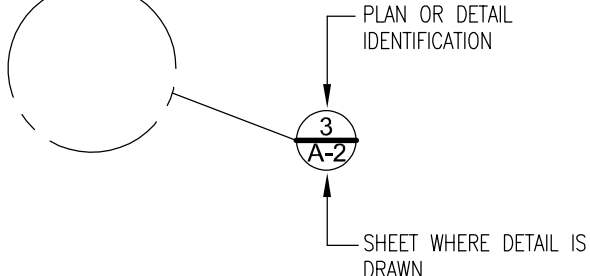
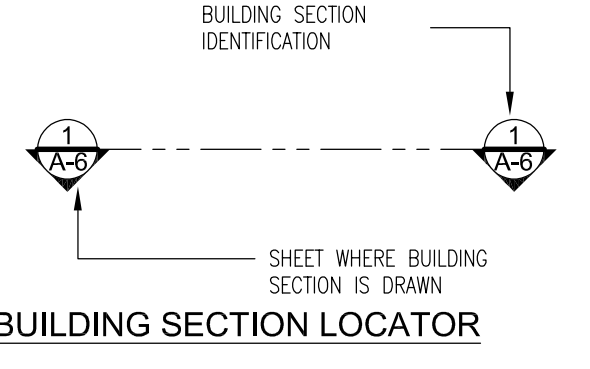
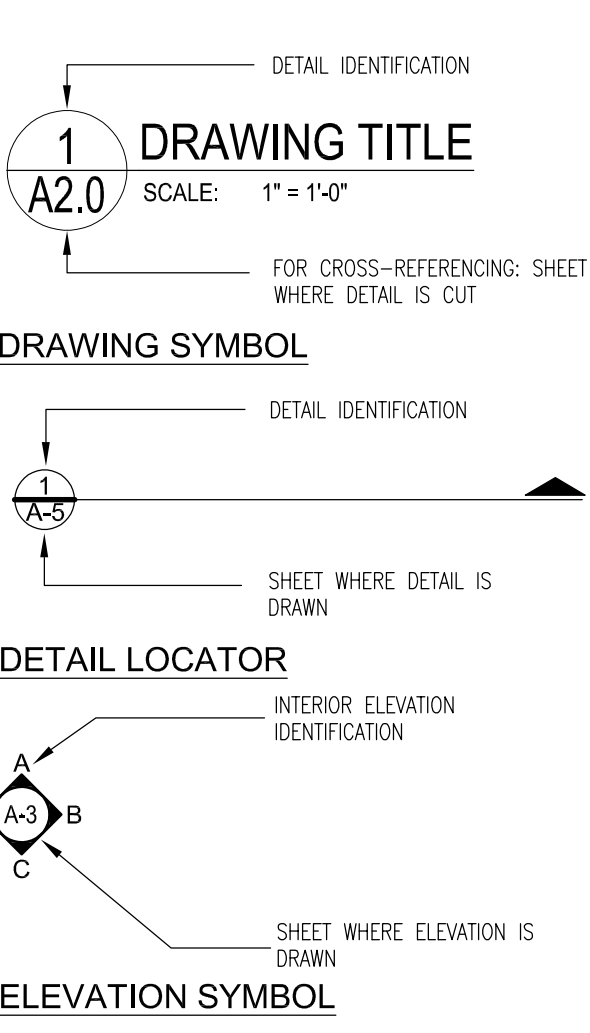


COAT RACK & WALL CUSTOMER

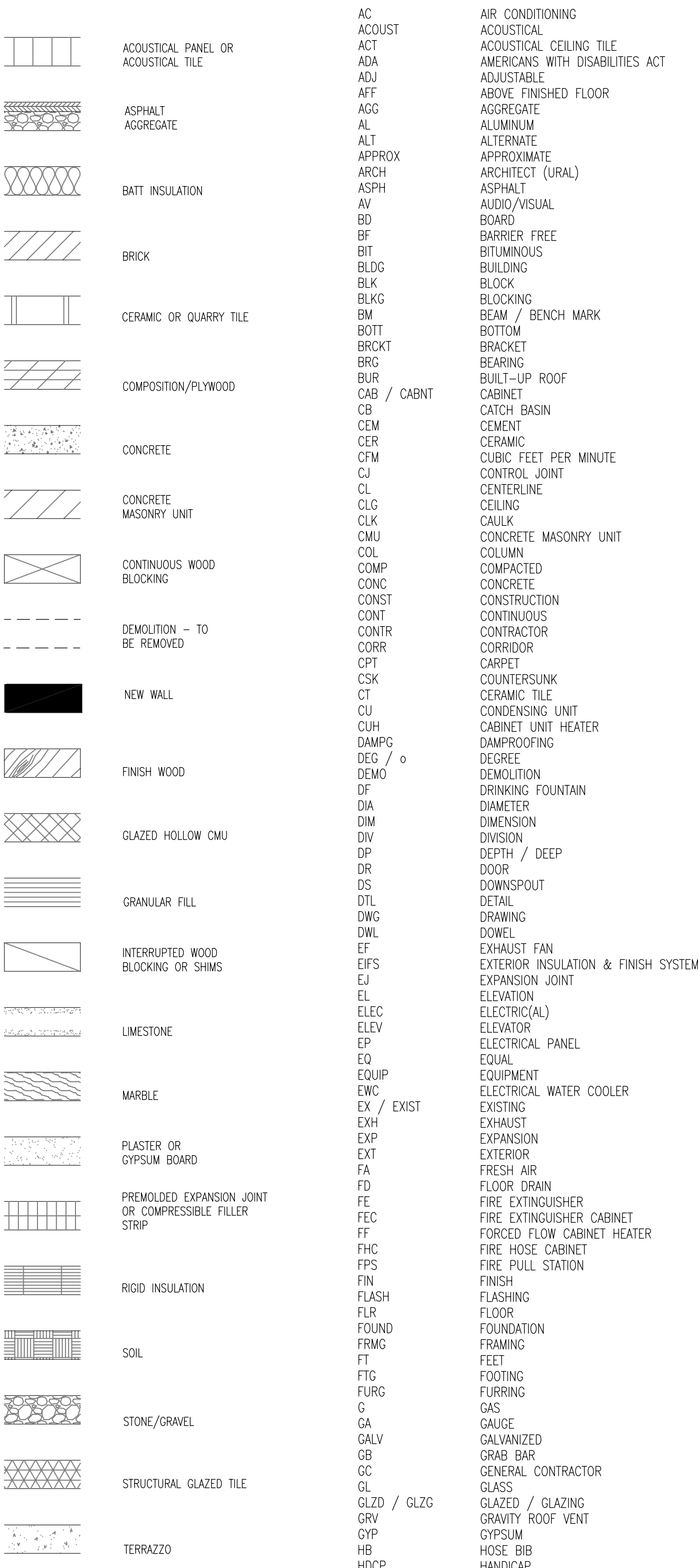
DOOR CLEARANCE AND MANEUVERING SPACE



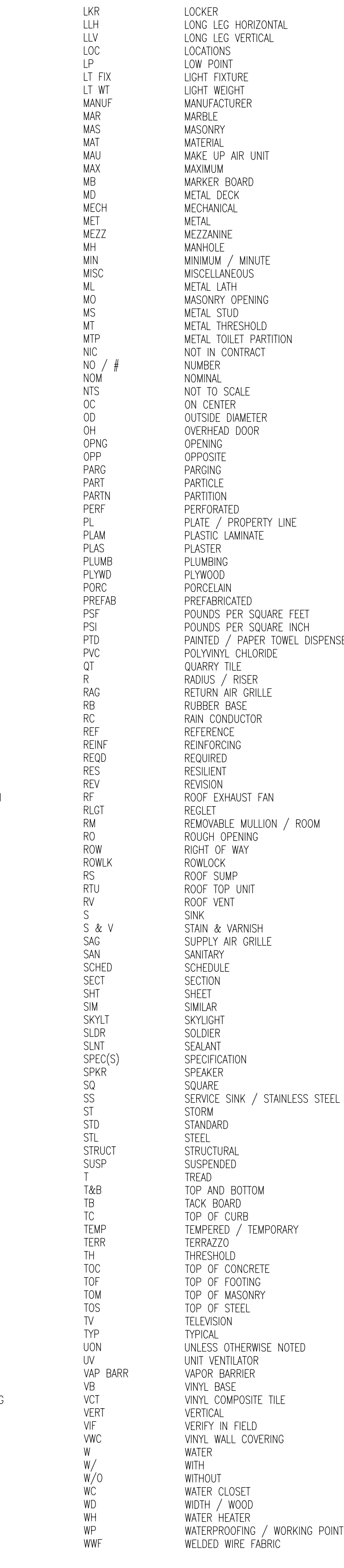
SYMBOL LEGEND



MATERIAL LEGEND



ABBREVIATION LEGEND



ANSI A117 NOTES

- CLOSING SPEED  
DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A CLOSED POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM
- DOOR-OPENING FORCE  
THE MAXIMUM FORCE FOR PUSHING OPEN OR PULLING OPEN DOORS SHALL BE 5.0 POUNDS
- SIGNS  
REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS:
  - ACCESSIBLE ROOMS WHERE MULTIPLE SINGLE-USER TOILET OR BATHING ROOMS ARE CLUSTERED AT A SINGLE LOCATION
  - ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE
- DIRECTIONAL SIGNAGE  
DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS. THESE DIRECTIONAL SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY:
  - INACCESSIBLE BUILDING ENTRANCES
  - INACCESSIBLE PUBLIC TOILETS AND BATHING FACILITIES
- OTHER SIGNS  
SIGNAGE INDICATING SPECIAL ACCESSIBILITY PROVISIONS SHALL BE PROVIDED AT EACH DOOR TO AN EXIT DISCHARGE
- WATER CLOSETS  
ACCESSIBLE WATER CLOSETS SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 16 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION
- TOILET ROOM CONTROLS  
FLUSH CONTROLS ON SINK AND TOILETS SHALL BE AUTOMATIC.
- PROVIDE ACCESS TO CONDIMENTS - 46" MAXIMUM HEIGHT
- SOAP DISPENSERS TO BE 46" MAXIMUM ABOVE FINISH FLOOR
- ALL SIGNS SHALL BE TACTILE AND BRAILLE

CLIENT



[T]  
[F]

ARCHITECT



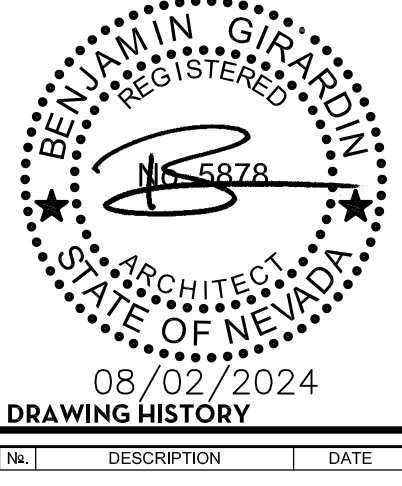
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PGAL TBPE REG. NO: F-2742

CONSULTANT

REGISTRATION

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PROJECT NAME  
NEVADA HEALTH CENTERS MLK FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

Reference

SHEET NUMBER

G0.00





[T]

[F]

ARCHITECT



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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

Code Analysis

SHEET NUMBER

GO.01

CODE ANALYSIS ITEMS

CODE YEAR / TYPE		CITY ORDINANCE 6631, 6632, 6633, 6634, 6635, 6636, 6638, 6639							
2021 INTERNATIONAL BUILDING CODE (IBC) W/ SOUTHERN NEVADA AMENDMENTS 2018 UNIFORM MECHANICAL CODE (UMC) W/ SOUTHERN NEVADA AMENDMENTS 2018 UNIFORM PLUMBING CODE (UPC) W/ SOUTHERN NEVADA AMENDMENTS 2017 NATIONAL ELECTRICAL CODE (NEC) W/ SOUTHERN NEVADA AMENDMENTS 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) W/ SOUTHERN NEVADA AMENDMENTS 2021 INTERNATIONAL FIRE CODE (IFC) W/ SOUTHERN NEVADA AMENDMENTS 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES									
2. OCCUPANCY CLASSIFICATION		IBC CHAPTER 3							
OCCUPANCY TYPE:	B (OFFICE) S-2 (EQUIPMENT STORAGE)								
3. TYPE OF CONSTRUCTION		IBC 602							
EXISTING TYPE:	V-B (EXISTING)								
4. FIRE SPRINKLERS		IBC 903, 903.3							
EXISTING TYPE:	YES / EXISTING								
NEW TYPE:	YES / MATCH EXISTING								
5. FIRE ALARM		IBC 907							
YES / MATCH EXISTING	NFPA 72								
6. HEIGHT		IBC 503, 504 & TABLE 504.3							
ALLOWABLE:	60'								
EXISTING:	±45'								
7. STORIES		IBC 503, 504 & TABLE 504.4							
ALLOWABLE:	3								
ACTUAL:	2								
8. AREA		IBC 503, 507 THROUGH 507 & TABLE 506.2							
ALLOWABLE:	36,000 SF								
ACTUAL:	±30,800 SF								
9. OCCUPANT LOAD		IBC 1004 & TABLE 1004.5							
PER EGRESS PLAN	= 234 OCCUPANT								
10. NUMBER OF EXITS		IBC 1006, 1007 & TABLES 1006.2.1, 1006.3.3, 1006.3.4(1), 1006.3.4(2)							
REQUIRED	2								
PROVIDED	2								
11. FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS		IBC 602, CHAPTER 7 & TABLE 601							
N/A INTERIOR IMPROVEMENTS ONLY									
12. FIRE-RESISTANCE RATING OF EXTERIOR WALLS DUE TO LOCATION ON PROPERTY		IBC 705 & TABLE 705.5							
N/A INTERIOR IMPROVEMENTS ONLY									
13. FIRE-RESISTANCE PROTECTION OF OPENINGS DUE TO LOCATIONS ON PROPERTY & MAXIMUM AREA OF EXTERIOR WALL OPENINGS		IBC 705.8 & TABLES 705.8							
N/A INTERIOR IMPROVEMENTS ONLY									
14. FIRE-RESISTANCE RATING OF SPECIFIC SPACES AND / OR DESIGN		IBC 420, 509, 706 THRU 713, 716, 1011.7, 1020, 1023, 1024, 3005, 1018.1 & TABLES 509.1, 716.1(2)							
N/A INTERIOR IMPROVEMENTS ONLY									
15. FIRE-RESISTANCE RATING OF NON-SEPARATED OR SEPARATED OCCUPANCIES		IBC 508 & TABLE 508.4							
N/A INTERIOR IMPROVEMENTS ONLY									
16. ROOF COVERING MATERIAL CLASS		IBC TABLE 1505.1							
CLASS-C									
17. REQUIRED PLUMBING FIXTURES		IBC 2902 & TABLE 2902.1							
PLUMBING FIXTURE TABLE 2902.1									
OCCUPANCY	OCCUPANT LOAD	WATER CLOSETS			LAVATORIES			DRINKING FOUNTAINS	SERVICE SINK
		RATIO	MEN	WOMEN	RATIO	MEN	WOMEN		
B	234 OCC. (FROM THE CODE ANALYSIS)	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER	234/2 = 117 4 WATER CLOSET	234/2 = 117 4 WATER CLOSET	1 PER 40 FOR THE FIRST 80 AND 1 PER 8 FOR THE REMAINDER	234/2 = 117 3 LAVATORY	234/2 = 117 3 LAVATORY	1 PER 100	1 SERVICE SINK
TOTAL		8 REQUIRED	5 (E) WC 4 (E) URINAL	10 (E) WC	6 REQUIRED	8 (E) LAV	9 (E) LAV	2 (E) HI/Low DRINKING FOUNTAINS & DRINKING DISPENSER	2 (E) SERVICE SINK
18. SPECIAL INSPECTIONS REQUIRED		IBC 909.18.8 & 1705							
SEE SHEET S-1									
19. I.E.C.C. COMPLIANCE		IECC C103, C401.2, CHAPTER 5 - (CE) & (RE), R103, R401.2							
N/A - INTERIOR IMPROVEMENTS ONLY									

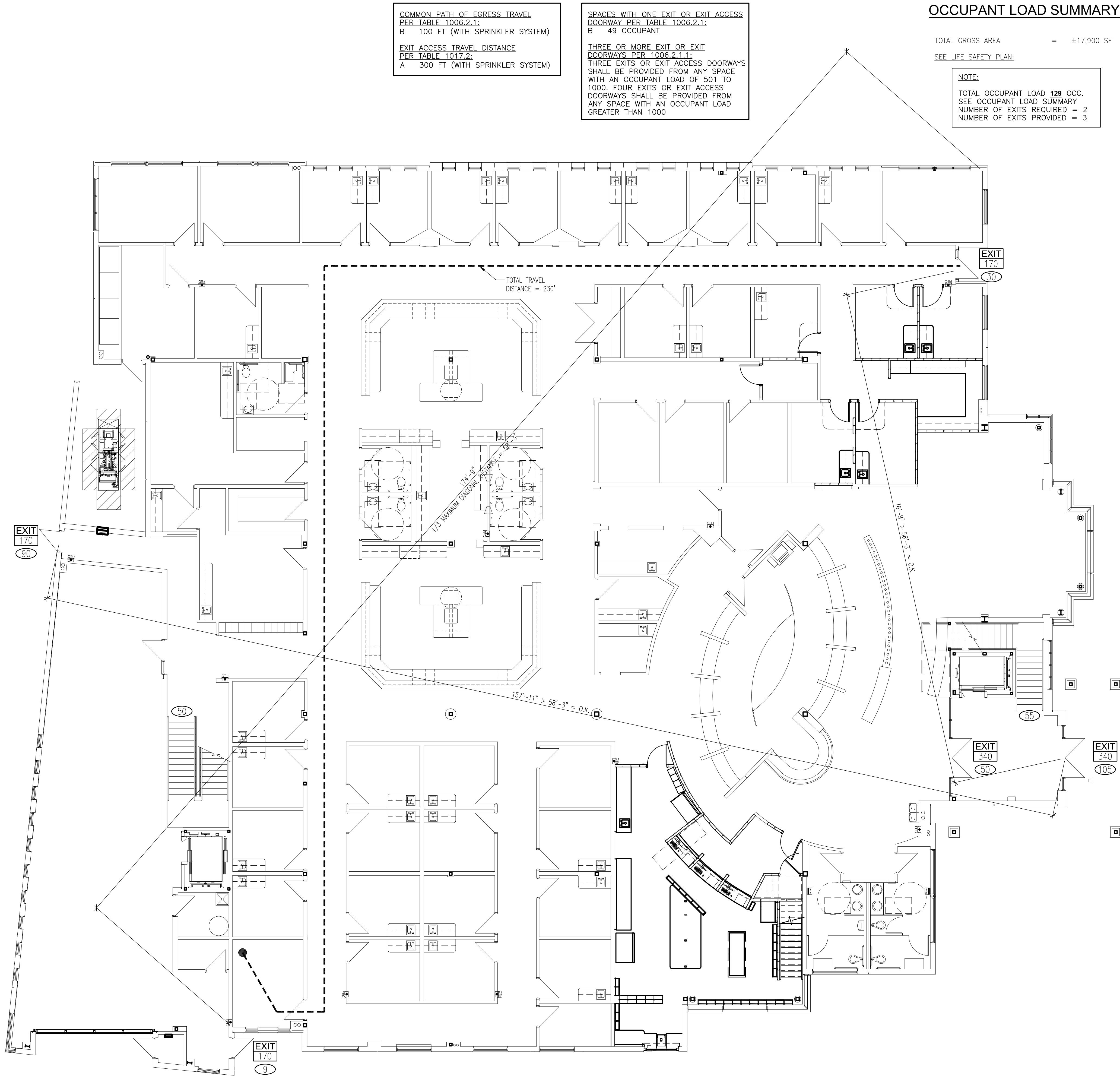
GENERAL NOTES

- DRAWINGS AND SPECIFICATIONS ARE PREPARED TO SHOW THE ARCHITECT INTENT IN THE DESIGN AND CONSTRUCTION OF THE PROJECT. IN ALL MATTERS RELATED TO THE USE OR INTERPRETATION OF THESE VARIOUS DRAWINGS AND SPECIFICATIONS, THE ARCHITECT STATEMENT SHALL BE CONSIDERED FINAL.
- CONSTRUCTION SHALL BE EQUAL TO OR EXCEED MINIMUM REQUIREMENTS OF CURRENT EDITIONS OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, UNIFORM PLUMBING CODE, NATIONAL ELECTRICAL CODE AND ALL GOVERNING AGENCY REQUIREMENTS. THE GENERAL CONTRACTOR SHALL ADHERE AND COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING JOB SITE SAFETY.
- WORK TO BE COMPLETE, OPERABLE, OCCUPIABLE AND ACCOMPLISHED IN A NEAT AND WORKMANLIKE MANNER PER THE BEST PRACTICES OF THE VARIOUS TRADES AND TO THE ARCHITECT'S SATISFACTION.
- THE CONTRACTOR TO VISIT SITE AND VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE BIDDING AND STARTING AND ACCEPT THEM AS HE FINDS THEM. UNLESS CONTRACTOR NOTIFIED ARCHITECT IN WRITING AND RECEIVED WRITTEN DIRECTION PRIOR TO BIDDING THE WORK, NO EXTRA COST THE CONSTRUCTION CONTRACT SHALL BE ALLOWED DUE TO PRIOR CONDITIONS. THE FAILURE OR OMISSION OF THE GENERAL CONTRACTOR TO VISIT THE SITE ACQUAINT HIMSELF WITH THE EXISTING CONDITIONS SHALL IN NO WAY RELIEVE HIM FROM OBLIGATIONS WITH RESPECT TO THIS CONTRACT.
- IF CONFLICT AND/OR DISCREPANCY APPEAR IN/OR BETWEEN THE DRAWINGS AND SPECIFICATIONS OR WORK, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IN WRITING AT ONCE AND RECEIVE WRITTEN DIRECTION PRIOR TO PROCEEDING. IF THE CONTRACTOR PROCEEDS PRIOR TO RECEIPT OF ARCHITECT'S WRITTEN DIRECTIONS, THE CONTRACTOR SHALL MAKE GOOD AND CORRECT AND WORK AND/OR DAMAGES RESULTING FROM THE PROCEDURE, NO EXTRA COST TO THE OWNER SHALL BE ALLOWED FOR SUCH CORRECTIONS.
- SHOULD CONFLICT AND/OR DISCREPANCY APPEAR IN/OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, IT IS DEEMED THE CONTRACTOR HAD ESTIMATED THE MOST EXPENSIVE CONSTRUCTION METHOD OR MATERIAL INVOLVED UNLESS THE CONTRACTOR HAD ASKED FOR AND RECEIVED ARCHITECT'S WRITTEN DIRECTIONS PRIOR TO SIGNING THE CONSTRUCTION AGREEMENT AS TO THE METHOD OR MATERIAL'S TO BE EMPLOYED. NO EXTRA COST TO THE OWNER SHALL BE ALLOWED FOR THESE ITEMS. THE DRAWINGS SHOW GENERAL INFORMATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO EXAMINE THE SITE TO DETERMINE THE EXACT EXISTING CONDITIONS AND CHARACTER AND THE EXTENT OF THE WORK TO BE PERFORMED AND OPERATIONS REQUIRED.
- CONTRACTOR TO BE FAMILIAR WITH ALL CONDITIONS AFFECTING THE WORK AND SHALL ACCEPT THEM AS HE FINDS THEM. NO EXTRA COST TO THE OWNER SHALL BE ALLOWED DUE TO SUCH CONDITIONS.
- CONTRACTOR AND ALL TRADES TO BE FAMILIAR WITH ALL DOCUMENTS ASSOCIATED WITH THIS WORK, AS INFORMATION SHOWN ON ONE SHALL BE BINDING AND IN AFFECT AS IF SHOWN ON ALL.
- WORK REQUIRED SHOP DRAWINGS OR SAMPLES SHALL NOT BE COMMENCED UNTIL SUBMISSION HAS BEEN REVIEWED IN WRITING BY ARCHITECT WORK SHALL BE IN ACCORDANCE WITH REVIEWED SHOP DRAWINGS AND SAMPLES.
- THE CONTRACTOR SHALL CONFINE OPERATIONS TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS AND CONTRACT DOCUMENTS AND AS DIRECTED BY ARCHITECT. HE SHALL NOT UNREASONABLY ENCUMBER THE SITE WITH REVIEWED SHOP DRAWINGS AND SAMPLES.
- THE CONTRACTOR OR SUBCONTRACTOR SHALL DO ALL CUTTING/FITTING/PATCHING OF HIS WORK AS MAY BE REQUIRED TO MAKE IT'S SEVERAL PARTS FIT TOGETHER PROPERLY, AND SHALL NOT ENDANGER THE WORK BY SUCH CUTTING, OR BY EXCAVATION OR BY OTHERWISE ALTERING THE WORK.
- ALL PATCHING, REPAIRING AND REPLACING OF MATERIAL'S AND SURFACES CUT OR DAMAGED IN EXECUTION OF THE WORK SHALL BE REPAIRED WITH APPLICABLE MATERIALS SO THAT SURFACES AND REPAIRS SHALL, UPON COMPLETION MATCH SURROUNDING SIMILAR MATERIAL'S OR SURFACES TO THE SATISFACTION OF THE ARCHITECT.
- THE CONTRACTOR SHALL MAINTAIN THE JOB SITE IN A CLEAN, ORDERLY CONDITION FREE OF DEBRIS AND LITTER. EACH SUBCONTRACTOR, IMMEDIATELY UPON COMPLETION OF EACH PHASE OF HIS WORK SHALL REMOVE ALL TRASH AND DEBRIS RESULTING FROM HIS OPERATION. WORK SHALL BE LEFT BROOK CLEAN EACH DAY. GENERAL CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF ALL TRASH AND DEBRIS IN A SAFE AND ACCEPTABLE MANNER.
- MATERIAL STORED ON SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION UNTIL USED. FAILURE TO PROTECT MATERIALS SHALL BE CAUSE FOR REJECTION OF THE WORK.
- CONTRACTOR AND OWNER TO HOLD THE ARCHITECT HARMLESS FOR DAMAGES RESULTING FROM THE ARCHITECT'S DISCHARGE OF HIS DUTIES IN ADMINISTRATION OF CONTRACT.
- A.I.A. GENERAL CONDITIONS GOVERN THE CONSTRUCTION OF THE WORK AS IF BOUND HEREIN. (LATEST ADDITION).
- PROVIDE AND LOCATE FIRE EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT PORTABLE DRY CHEMICAL EXTINGUISHERS TO BE 2A-10 BC.
- SHOULD DIMENSIONS ERROR OCCUR CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO COMMENCING THAT PORTION OF THE WORK. DIMENSION'S SHALL TAKE PRECEDENCE OVER SCALE MEASUREMENTS AND DETAILS DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL SMALL SCALE DRAWINGS. DETAILS HAVING THE LARGER SCALE SHALL GOVERN, WORK INDICATED BUT NOT PARTICULARLY DETAILED OR SPECIFIED SHALL BE EQUAL TO SIMILAR PARTS THAT ARE DETAILED OR SPECIFIED. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE SHOP DRAWINGS ARE MADE AND BEFORE ANY WORK IS CONSTRUCTED OR FABRICATED.
- DIMENSIONS SHOWN ARE TO FACE OF STUDS, WOOD COLUMN OR GRID LINES AND CENTERLINE OF STUD UNLESS OTHERWISE NOTED OR DETAILED.
- FOR SIZE AND LOCATION OF ALL OPENINGS FOR MECHANICAL DUCTWORK, SEE MECHANICAL DRAWINGS PROVIDE ALL HEADERS, LINTELS AND FRAMING AS NECESSARY FOR OPENINGS WHETHER OR NOT SPECIFICALLY DETAILED.
- SOILS REPORT BY OTHERS ARE HEREBY DEEMED A PART OF THIS CONTRACT AND ALL ITS FINDING AND RECOMMENDATIONS TAKE PRECEDENCE OVER ANY CONFLICT OR DISCREPANCY WHICH MAY BE FOUND IN THESE DRAWINGS ANY ADJUSTMENTS TO FOUNDATIONS OR DETAILS ARE REQUIRED AS IF SHOWN HEREIN.
- THERE SHALL BE NO EXPOSED PIPE, CONDUITS, DUCTS, VENTS ETC. ALL SUCH LINES SHALL BE CONCEALED OR FURRED AND FINISHED SAME AS ADJACENT MATERIALS.
- SLOPE ALL FINISH GRADES FROM BUILDING.
- TYPICAL DETAIL SHALL APPLY WHERE NO SPECIAL DETAIL IS SHOWN.

GENERAL NOTES (cont'd.)

- GENERAL CONTRACTOR TO INSTALL ROOM CAPACITY SIGN SUPPLIED BY THE OWNER AND SHALL BE TO THE SATISFACTION OF THE BUILDING AND FIRE DEPARTMENTS.
- DRAPERIES, HANGING CURTAINS, AND ALL DECORATIVE MATERIALS SHALL MEET CLASS III RESISTIVE SPECIFICATIONS.
- ALL PUBLIC EXITS ARE TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- ALL MATERIALS AND EQUIPMENT SPECIFIED ARE THE REQUIREMENTS OF THE OWNER AND/OR ARCHITECT, AND TO BE USED AS SPECIFIED. NO SUBSTITUTIONS WILL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT PRIOR TO SUBMITTING BIDS.
- THE CONSULTANT'S CONTRACT DOCUMENTS ARE SUPPLEMENTARY TO THE ARCHITECTURAL CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO CHECK WITH THE ARCHITECTURAL CONTRACT DOCUMENTS BEFORE THE INSTALLATION OF STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. ANY DISCREPANCY FOUND BETWEEN THE ARCHITECTURAL AND THE CONSULTING ENGINEER'S DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION PRIOR TO INSTALLATIONS. ANY WORK THAT IS INSTALLED IN CONFLICT WITH ARCHITECTURAL OR ENGINEERING CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT HIS OWN EXPENSE, AND AT NO ADDITIONAL EXPENSE TO THE OWNER OR ARCHITECT.
- INCOMPLETE CONTRACT DOCUMENT SETS SHALL NOT BE USED BY ANY TRADE OR SUBCONTRACTOR WHATSOEVER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING FULL AND COMPLETE CONTRACT DOCUMENT SETS TO ALL TRADES. ANY NOTE OR DETAIL ON ONE DRAWING SHALL BE DEEMED TO APPLY TO ALL DRAWINGS AND SIMILAR CONDITIONS. GENERAL CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS; OR BETWEEN INDIVIDUAL DRAWINGS, DETAILS AND SPECIFICATIONS. GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION BETWEEN AND AMONG ALL PLAN DRAWINGS, SHEETS AND SPECIFICATIONS, AND BETWEEN AND AMONG ALL SUBCONTRACTORS, SUPPLIERS AND TRADES.
- UPON SUBMITTAL OF CONSTRUCTION COSTS, THE GENERAL CONTRACTOR SHALL ALSO SUBMIT A SCHEDULE OF VALUES AND A SPECIFIC CONSTRUCTION SCHEDULE INDICATING THE REQUIRED CONSTRUCTION TIME OF ALL SUBCONTRACTORS AND GENERAL CONTRACTORS WORK.
- ALL REVISIONS TO THE APPROVED PLANS, NO MATTER HOW MINOR, MUST BE APPROVED BY BOTH THE CITY PLANNING DEPARTMENT AND BUILDING SAFETY DEPARTMENT AND REVIEWED BY ARCHITECT.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF PROJECT AND SHALL BE RESPONSIBLE FOR DISCIPLINE OF ALL WORKERS ON THE PROJECT.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF WORK, THE REQUESTING AND COORDINATION OF BUILDING DEPARTMENT INSPECTIONS AND APPROVALS IN ALL FIELDS OF HIS WORK AND THE OBTAINING OF A FINAL CERTIFICATE OF OCCUPANCY.
- GENERAL CONTRACTOR SHALL HAVE ON-SITE THE APPROVED CONSTRUCTION DRAWINGS, INCLUDING ALL ADDENDA, SUPPLEMENTAL INSTRUCTIONS, CHANGE ORDERS, COPIES OF APPROVED SUBMITTALS AND BUILDING PERMIT.
- THE GENERAL CONTRACTOR SHALL PURCHASE AND MAINTAIN CERTIFICATES OF INSURANCE WITH RESPECT TO WORKMAN'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE LIMITS AS REQUESTED BY LAW. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.
- GENERAL CONTRACTOR TO SUBMIT SAMPLES, CUT SHEETS, AND SHOP DRAWINGS PERTAINING TO COLORS, FINISHES, FIXTURES, MATERIALS, SYSTEMS, AND OTHER ITEMS INSTALLED IN THE CONSTRUCTION. THE GENERAL CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ARCHITECT PRIOR TO ORDERING OR INSTALLATION OF SUCH ITEMS. ANY INSTALLATION OF USE OF THE ITEM WITHOUT THE ARCHITECT'S APPROVAL SHALL BECOME THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION, FABRICATION, PROCUREMENT, SHIPMENT, DELIVERY OR INSTALLATION OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY UNDER THEIR RESPECTIVE CONTRACTS. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S SCHEDULES OR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHANGE OF ACTS OF OMISSIONS OF THE CONTRACTOR'S, SUBCONTRACTORS OR THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.
- SPECIAL INSPECTION NOTE: SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE CONTRACTOR OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED FOR INSPECTIONS REQUIRED BY SECTION 1704 OF THE INTERNATIONAL BUILDING CODE.
- UNLESS NOTED OTHERWISE, THE BIDDING AND CONSTRUCTION WILL BE ADMINISTERED BY THE OWNER.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE SAFETY AND CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION.





## FIRE SPRINKLER NOTES

### FIRE SPRINKLER NOTES:

- THE EXISTING FIRE SPRINKLER SYSTEM IN THE REMODELED AREA WILL BE MODIFIED WHERE REQUIRED, AND SHALL BE IN FULL COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE, CHAPTER 9, AND INTERNATIONAL FIRE CODE, THE REQUIREMENTS OF THE CLV FIRE DEPARTMENT AND THE REQUIREMENTS OF THE NEVADA STATE FIRE MARSHALL (IF APPLICABLE), SHALL BE INCLUDED AS PART OF THE BID/CONTRACT. PROVIDE ALL ITEMS NECESSARY INCLUDING FLOW AND ALARM DEVICES WHERE APPLICABLE, AND NECESSARY ELECTRICAL HOOKUPS AND ALL VAULTS AND WATER CONNECTIONS AS REQUIRED TO COMPLETE THE INSTALLATION. ALL SPRINKLER HEADS SHALL MATCH EXISTING STYLE AND FINISH. FIRE SPRINKLER SYSTEM SHALL BE FULLY TIED INTO AND INTEGRATED WITH BUILDING SYSTEMS.
- LOCATION OF FIRE SPRINKLER LINES, HEADS, ETC SHALL BE BY THE FIRE SPRINKLER SYSTEM ENGINEER AND SHALL BE COMPLETELY COORDINATED BETWEEN ALL TRADES TO PREVENT FIELD CONFLICTS. SPRINKLER HEAD LOCATIONS MUST BE REVIEWED AND APPROVED BY THE OWNER AND ARCHITECT PRIOR TO SUBMITTAL TO GOVERNING AGENCIES.
- THE SPRINKLER WORK SHALL TAKE PLACE AFTER ELECTRICAL, PLUMBING AND MECHANICAL ROUGH IN IS COMPLETED AND BE ROUTED AROUND THIS WORK AS REQUIRED.

## FIRE ALARM NOTES

### FIRE ALARM NOTES:

- THE EXISTING FIRE ALARM SYSTEM WILL REQUIRE MODIFICATIONS TO PROPERLY ALARM THE REMODELED AREA (INCLUDE AS PART OF THE BID/CONTRACT). THE MODIFICATIONS SHALL BE IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, CITY OF LAS VEGAS AND THE NEVADA FIRE MARSHALL.
- ALL FIRE ALARM WORK SHALL BE PERFORMED BY OWNER'S FIRE ALARM CONTRACTOR.

## ANSI A117.1 NOTES

- CLOSING SPEED**  
DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A CLOSED POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM.
- DOOR-OPENING FORCE**  
THE MAXIMUM FORCE FOR PUSHING OPEN OR PULLING OPEN DOORS SHALL BE 5.0 POUNDS.
- SIGNS**  
REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS:
  - ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE.
- DIRECTIONAL SIGNAGE**  
DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS. THESE DIRECTIONAL SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY:
  - INACCESSIBLE BUILDING ENTRANCES.
- OTHER SIGNS**  
SIGNAGE INDICATING SPECIAL ACCESSIBILITY PROVISIONS SHALL BE PROVIDED AT EACH DOOR TO AN EXIT DISCHARGE.

## EGRESS LEGEND

- EXIT** EXIT STAIR or EXIT DOORWAY
- 170** DOOR or STAIRWAY CAPACITY (# OF PEOPLE)
- X** NUMBER OF OCCUPANTS EXISTING THROUGH DOOR
- X** NUMBER OF OCCUPANTS EXISTING THROUGH TO RIGHT OF WAY
- ????** SQUARE FOOTAGE OF THE SPECIFIED AREA
- ????** OCCUPANT LOAD FACTOR
- ????** NUMBER OF OCCUPANTS

### IBC 2021 SECTION 1005.3

STAIRS:  
EGRESS UNIT WIDTH = .3 IN/PERSON

DOORS, RAMPS & CORRIDORS:  
EGRESS UNIT WIDTH = .2 IN/PERSON

48" STAIR / .3 = 160 PEOPLE CAPACITY  
36" DOOR = 34 / .2 = 170 PEOPLE CAPACITY  
40" DOOR = 38 / .2 = 190 PEOPLE CAPACITY  
42" DOOR = 40 / .2 = 200 PEOPLE CAPACITY

## CLIENT



[T]  
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## ARCHITECT



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PGAL TBPE REG. NO: F-2742

## CONSULTANT

## REGISTRATION

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## PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

## PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

## PROJECT NUMBER

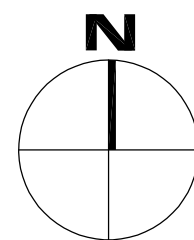
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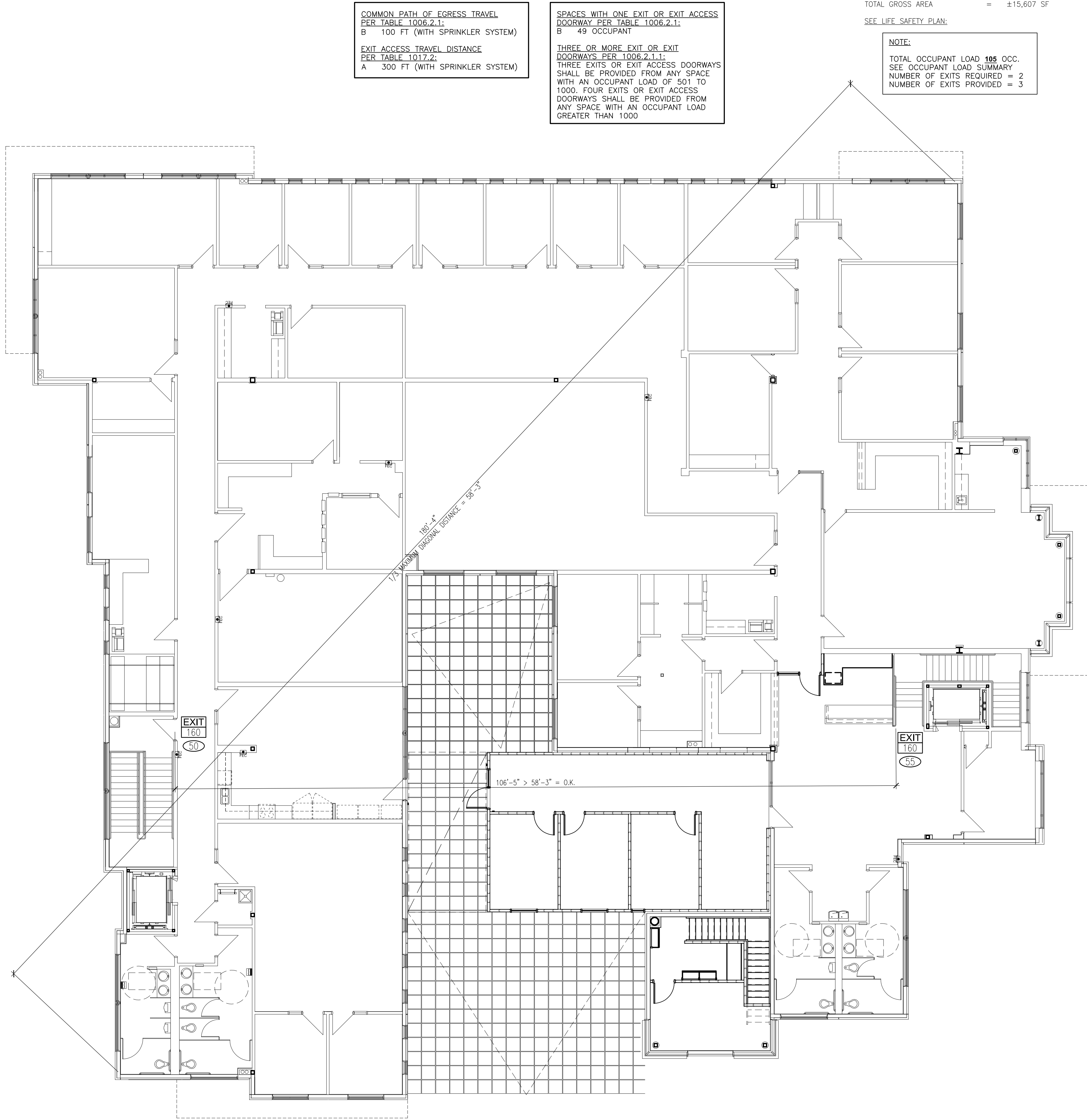
Life Safety Plan -  
Ground Floor

## SHEET NUMBER

G0.02







COMMON PATH OF EGRESS TRAVEL  
PER TABLE 1006.2.1:  
B 100 FT (WITH SPRINKLER SYSTEM)  
  
EXIT ACCESS TRAVEL DISTANCE  
PER TABLE 1017.2:  
A 300 FT (WITH SPRINKLER SYSTEM)

SPACES WITH ONE EXIT OR EXIT ACCESS  
DOORWAY PER TABLE 1006.2.1:  
B 49 OCCUPANT  
  
THREE OR MORE EXIT OR EXIT  
DOORWAYS PER 1006.2.1.1:  
THREE EXITS OR EXIT ACCESS DOORWAYS  
SHALL BE PROVIDED FROM ANY SPACE  
WITH AN OCCUPANT LOAD OF 501 TO  
1000. FOUR EXITS OR EXIT ACCESS  
DOORWAYS SHALL BE PROVIDED FROM  
ANY SPACE WITH AN OCCUPANT LOAD  
GREATER THAN 1000

TOTAL GROSS AREA = ±15,607 SF  
SEE LIFE SAFETY PLAN:

NOTE:  
TOTAL OCCUPANT LOAD **105** OCC.  
SEE OCCUPANT LOAD SUMMARY  
NUMBER OF EXITS REQUIRED = 2  
NUMBER OF EXITS PROVIDED = 3

### EGRESS LEGEND

- EXIT** EXIT STAIR or EXIT DOORWAY  
**170** DOOR or STAIRWAY CAPACITY (# OF PEOPLE)  
**⊙** NUMBER OF OCCUPANTS EXISTING THROUGH DOOR  
**⊗** NUMBER OF OCCUPANTS EXISTING THROUGH TO RIGHT OF WAY  
**????** SQUARE FOOTAGE OF THE SPECIFIED AREA  
**????** OCCUPANT LOAD FACTOR  
**????** NUMBER OF OCCUPANTS

IBC 2021 SECTION 1005.3

STAIRS:  
EGRESS UNIT WIDTH = .3 IN/PERSON  
DOORS, RAMPS & CORRIDORS:  
EGRESS UNIT WIDTH = .2 IN/PERSON

48" STAIR / .3 = 160 PEOPLE CAPACITY  
36" DOOR = 34 / .2 = 170 PEOPLE CAPACITY  
40" DOOR = 38 / .2 = 190 PEOPLE CAPACITY  
42" DOOR = 40 / .2 = 200 PEOPLE CAPACITY

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#### PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

#### PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

#### PROJECT NUMBER

1007689.00

#### SHEET TITLE

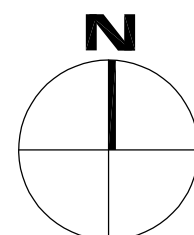
Life Safety Plan -  
Second Floor

#### SHEET NUMBER

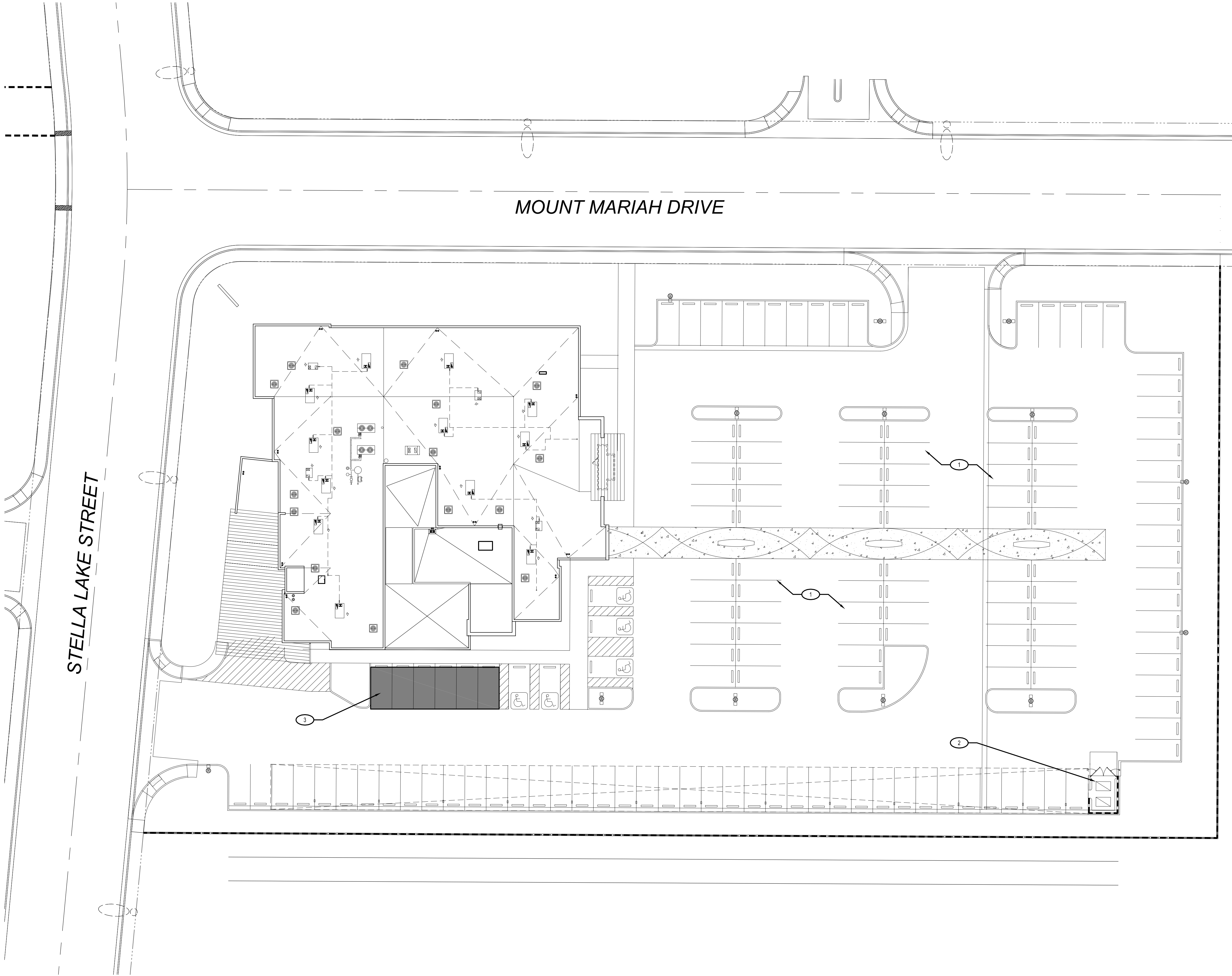
G0.03

LIFE SAFETY PLAN - SECOND FLOOR

1"=30'-0" 1







## PROJECT INFORMATION:

ADDRESS: 1799 MOUNT MARIAH DR.  
LAS VEGAS, NV 89106  
A.P.N.: 139-21-313-020  
JURISDICTION: CITY OF LAS VEGAS  
ZONING: PLANNED BUSINESS PARK (C-PB)  
PROPERTY SIZE: ±2.42 ACRE GROSS (±105,415 SF)  
BUILDING GROSS AREA: ±32,970 SF

## 1 SITE KEYED NOTES

1. EXISTING PARKING AREA.
2. EXISTING TRASH ENCLOSURE.
3. PROPOSE STAGING AREA.

## GENERAL NOTES

1. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
2. PROTECT ALL EXISTING TREES AS REQUIRED.
3. THE CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL EMERGENCY ENTRANCES AND SHALL NOT BLOCK ACCESS TO DRIVES AND COVERED DROP OFF AREAS. SITE WORK AND STAGING THAT AFFECT THE AREAS ADJACENT TO THE EMERGENCY DEPARTMENT ENTRANCE WILL REQUIRE A WRITTEN COORDINATION PLAN SUBMITTED TO AND APPROVED BY THE FACILITY.
4. CONTRACTOR SHALL INFORM THE OWNER PRIOR TO ANY SITE DEMOLITION AND SHALL SCHEDULE SUCH DEMOLITION IN A MANNER NOT TO INTERFERE WITH THE OWNER'S OPERATIONS AS OUTLINED IN AN AGREED PHASING PLAN AND SCHEDULE.

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## ARCHITECT



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## PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

## PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

## PROJECT NUMBER

1007689.00

## SHEET TITLE

Architectural Site Plan  
(FOR REFERENCE ONLY)

## SHEET NUMBER

AS1.00



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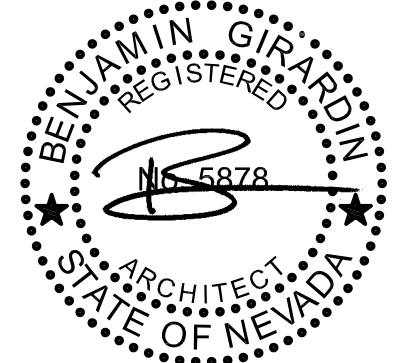
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DRAWING HISTORY		
No.	DESCRIPTION	DATE

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

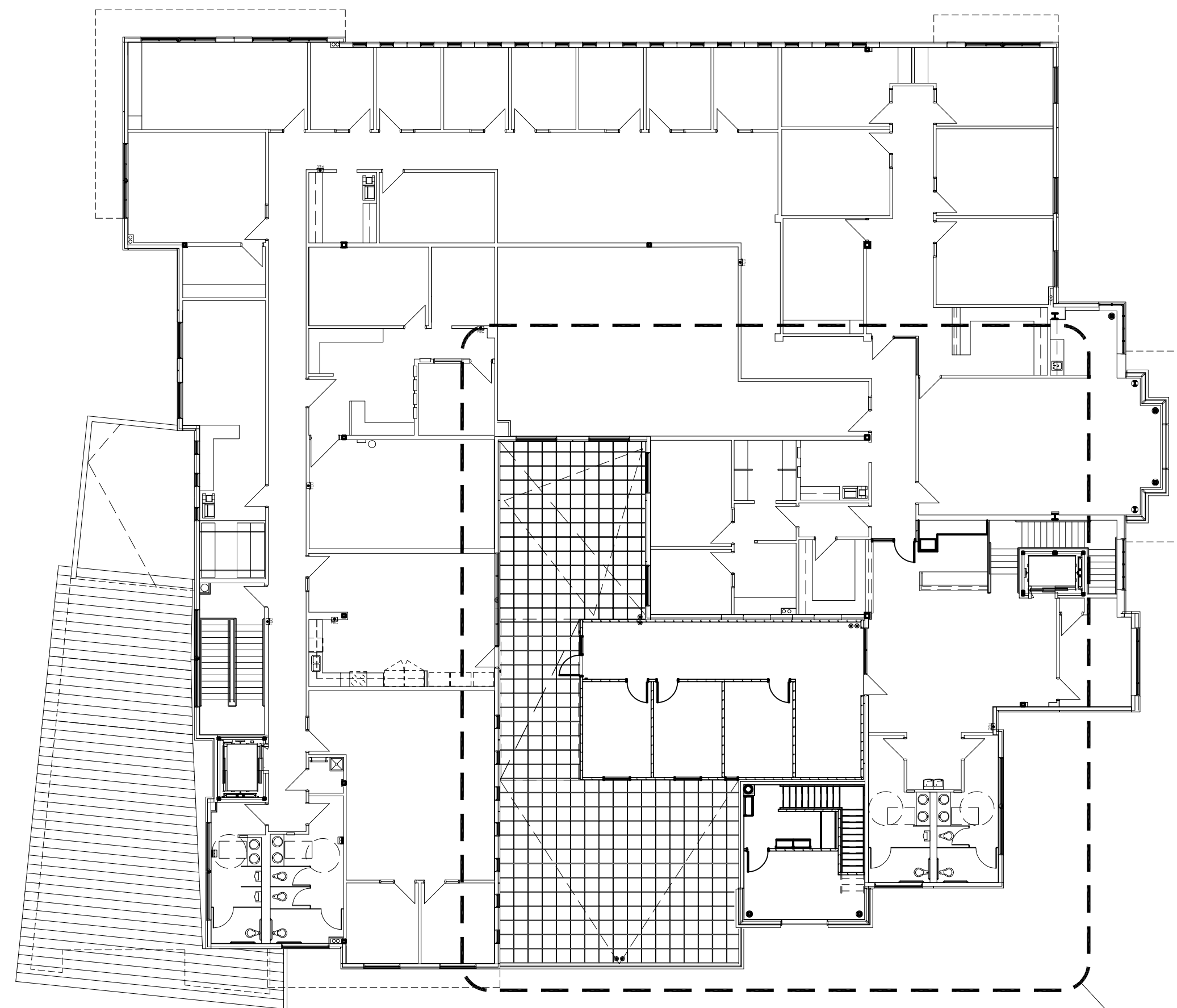
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SHEET TITLE

Phasing Plan

SHEET NUMBER

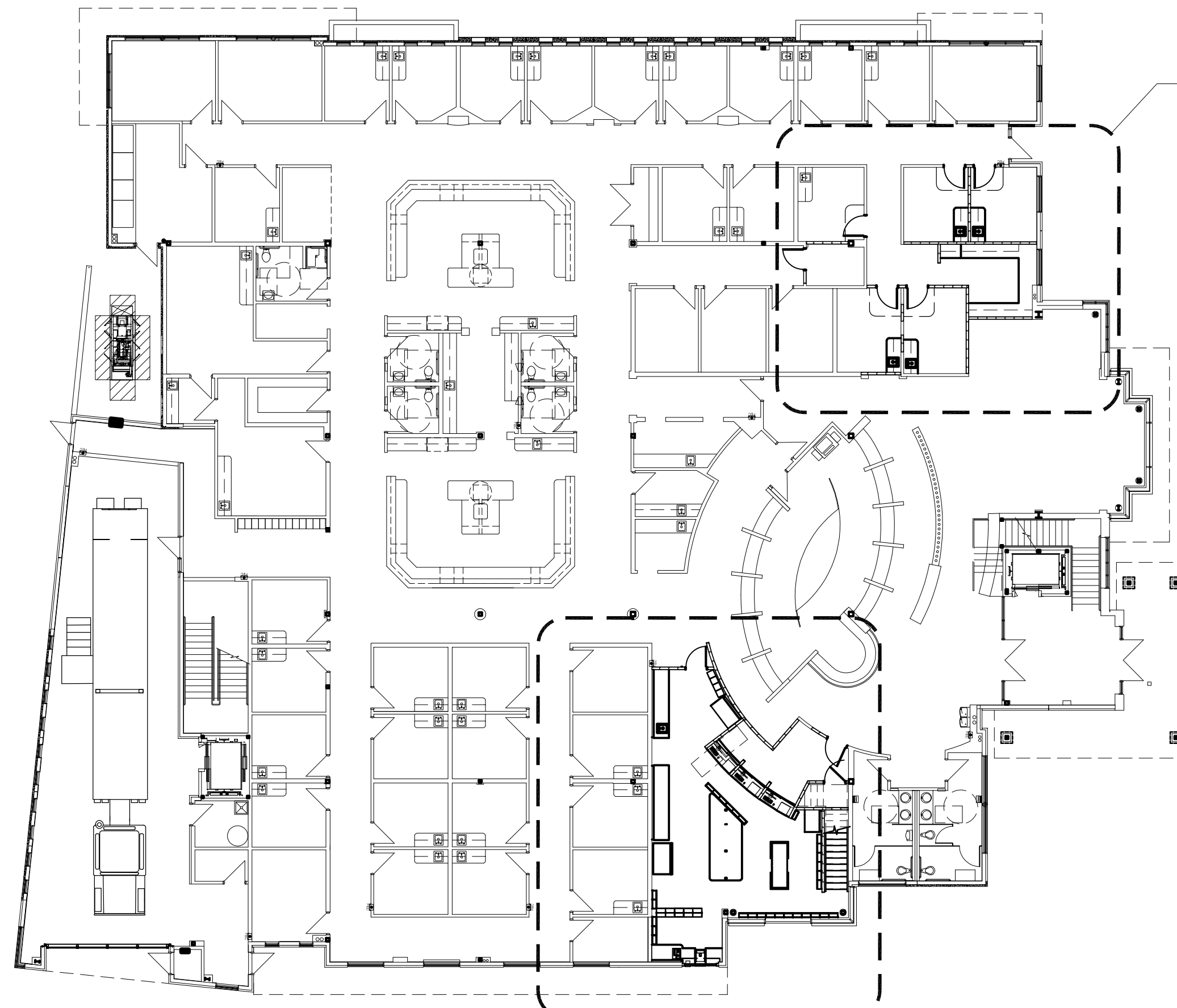
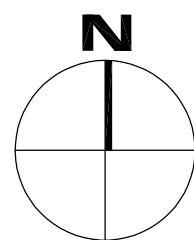
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PHASE 1

SECOND FLOOR PHASING PLAN

1/16"=1'-0" 1

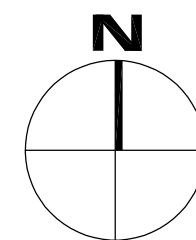


PHASE 2

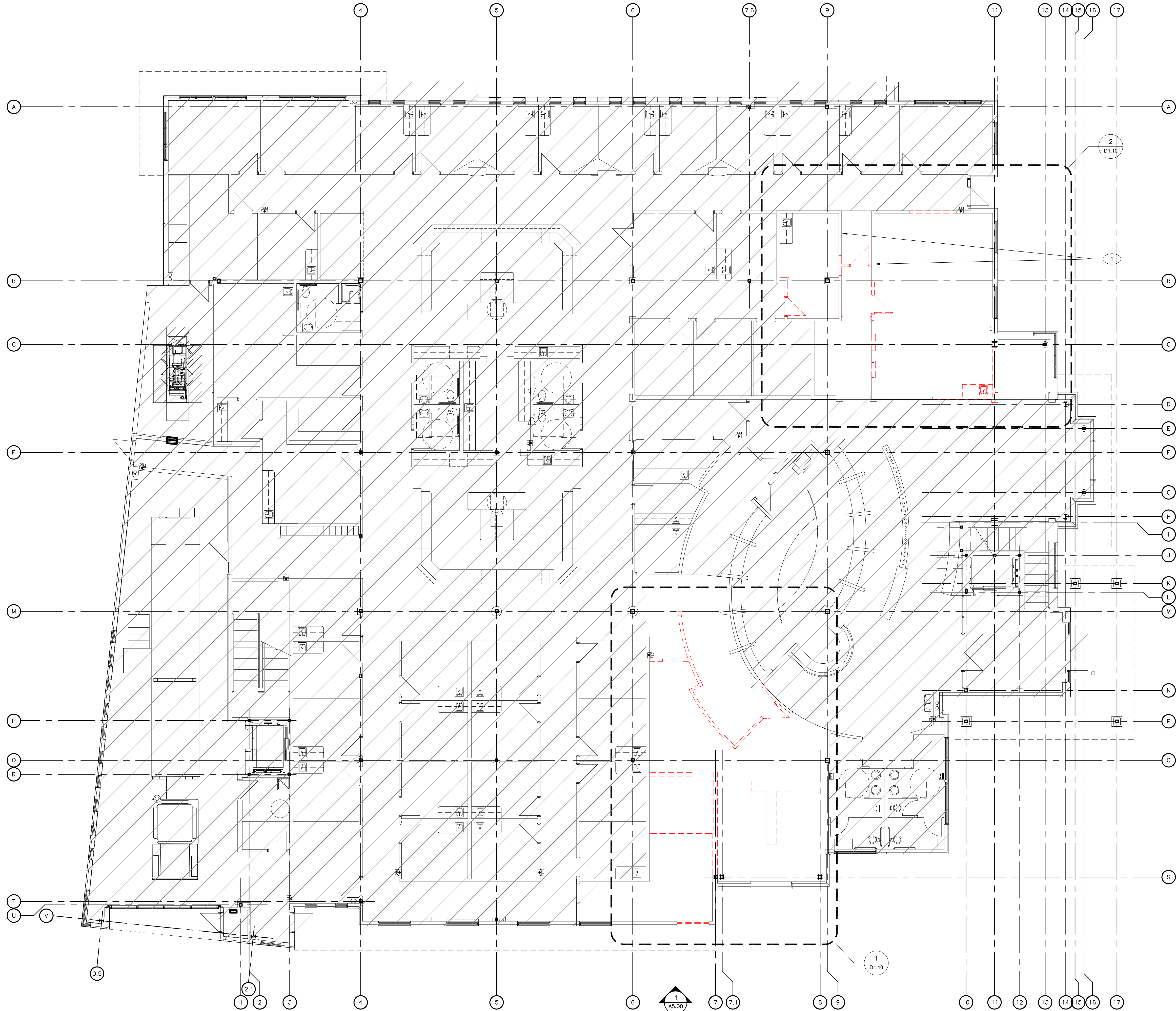
PHASE 1

GROUND FLOOR PHASING PLAN

1/16"=1'-0" 1







GROUND FLOOR OVERALL DEMOLITION PLAN 1/8"=1'-0" 1

# DEMO FLOOR KEYED NOTES

1. EXISTING WALL TO REMAIN.

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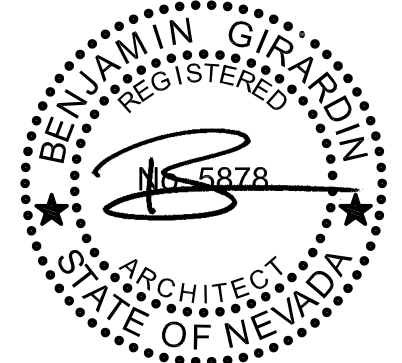
CONSULTANT

GENERAL NOTES

- G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
- RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
- G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL EMERGENCY ENTRANCES AND SHALL NOT BLOCK ACCESS.
- CONTRACTOR SHALL INFORM THE OWNER PRIOR TO ANY DEMOLITION AND SHALL SCHEDULE SUCH DEMOLITION IN A MANNER NOT TO INTERFERE WITH THE OWNER'S OPERATIONS AS OUTLINED IN AN AGREED PHASING PLAN AND SCHEDULE. ANY LOUD NOISE TYPE ACTIVITIES (I.E. CONCRETE SAW CUTTING, JACK HAMMERING) WILL NEED TO OCCUR OUTSIDE OF REGULAR BUSINESS HOURS.

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DRAWING HISTORY		
No.	DESCRIPTION	DATE

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

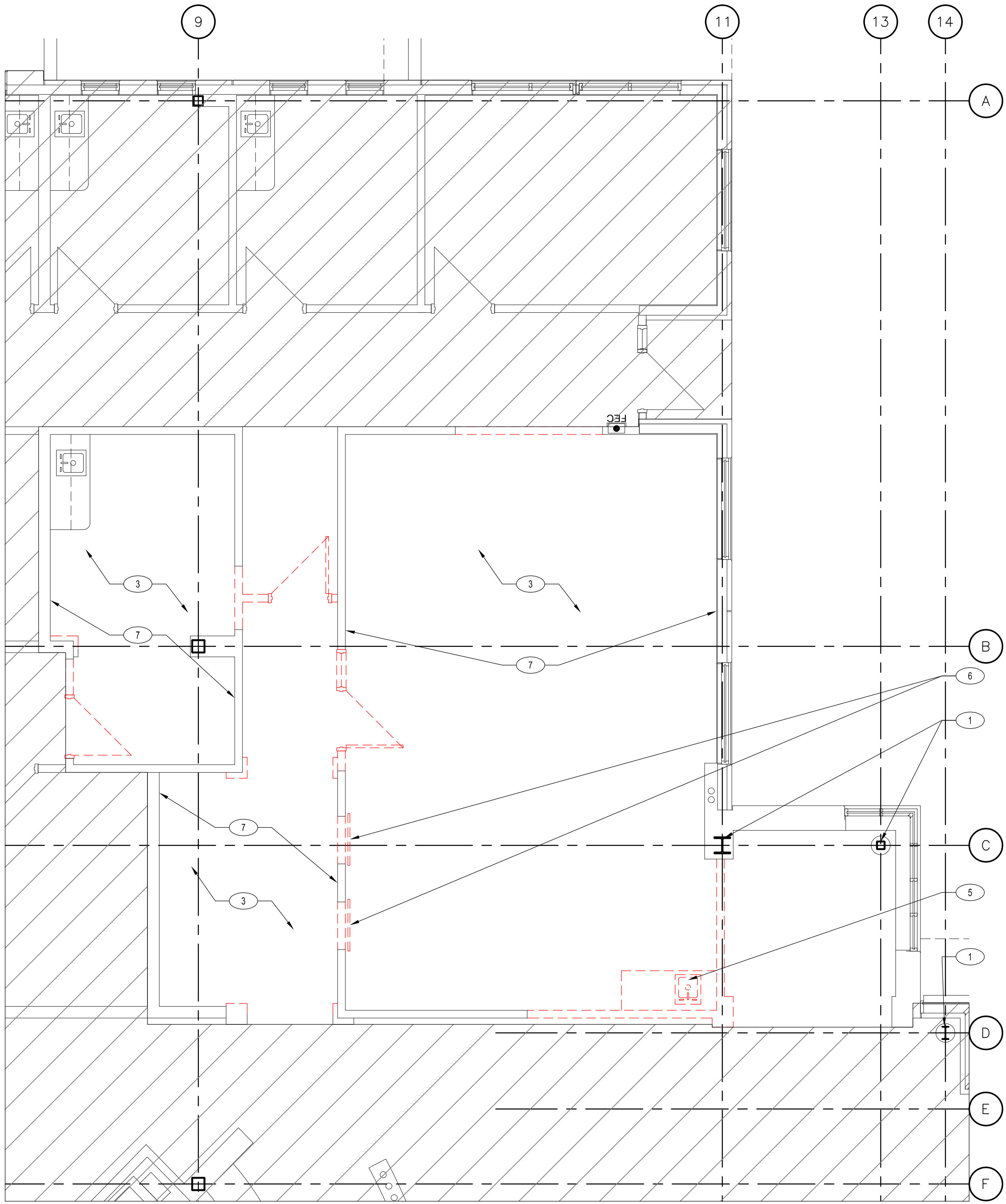
Ground Floor Overall  
Demolition Plan

SHEET NUMBER

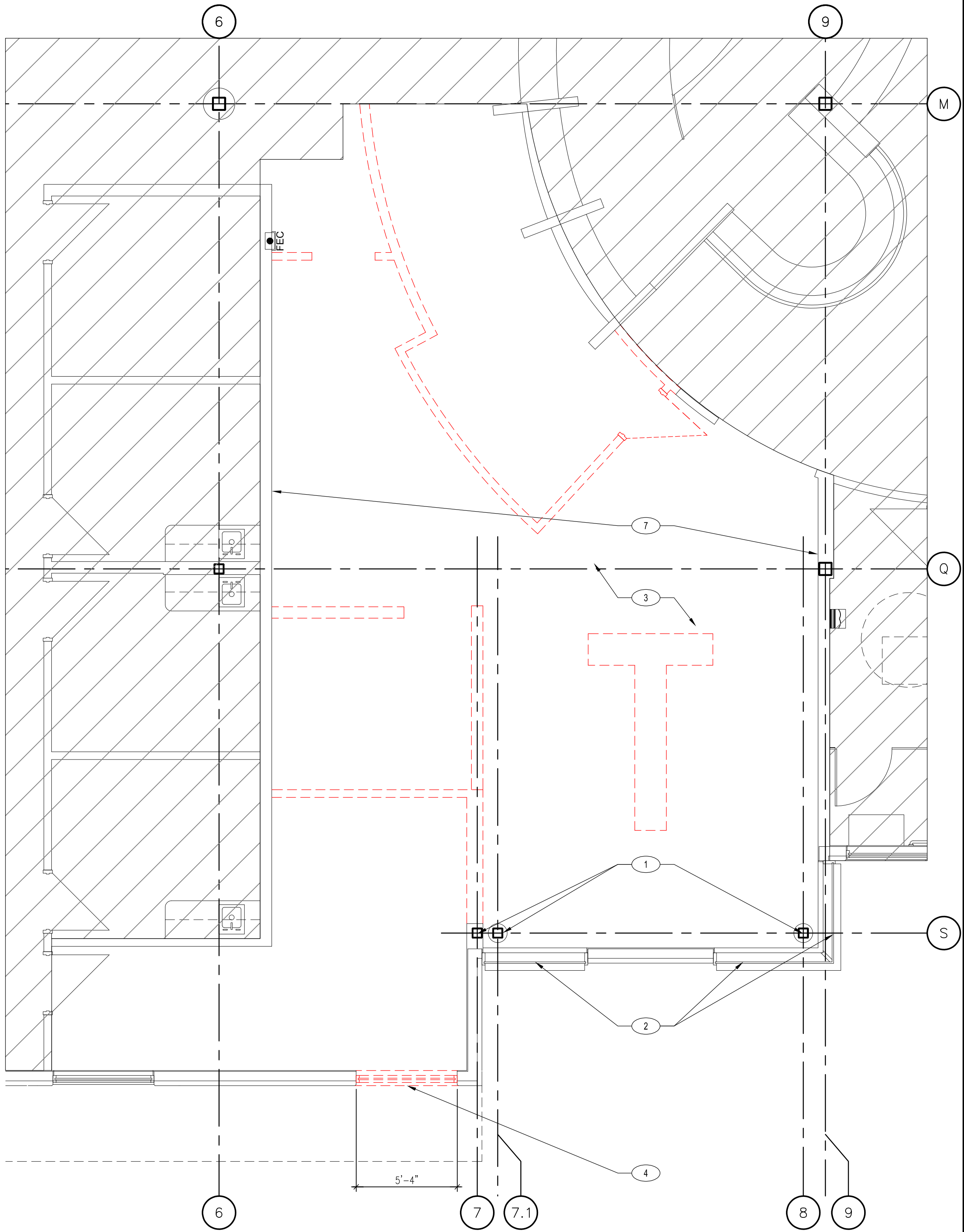
D1.00



FILE NAME: 1007689.00 11-10-2024  
DATE STAMP: 08/02/2024 10:00 PM



GROUND FLOOR ENLARGED PARTIAL DEMOLITION PLAN 1/4"=1'-0" 2



GROUND FLOOR ENLARGED PARTIAL DEMOLITION PLAN 1/4"=1'-0" 1

## # DEMO FLOOR KEYED NOTES

1. EXISTING STRUCTURAL COLUMN TO REMAIN.
2. EXISTING CURTAIN WALL SYSTEM TO REMAIN.
3. EXISTING FLOOR AND BASE FINISH TO BE REMOVE. PREP EXISTING SLAB FOR NEW FLOOR FINISH AND BASE.
4. WALL OPENING FOR NEW TRANSFER DRAWER WINDOW SYSTEM. ALIGN OPENING WITH EXISTING HIGH WINDOW WIDTH.
5. EXISTING CASEWORK AND SINK TO BE REMOVE. REFER TO PLUMBING DRAWINGS.
6. EXISTING ROLL-UP SERVICE COUNTER TO BE REMOVE. STORE FOR RE-USE.
7. CLEAN AND PREP EXISTING WALL SURFACE FOR NEW FINISH.

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## GENERAL NOTES

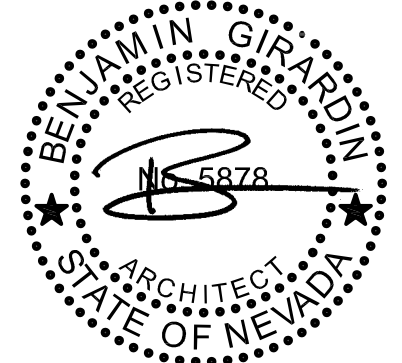
1. G.C. TO CAREFULLY REMOVE DOOR FRAME AND PANEL AND STORE FOR RE-USE.
2. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
3. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
4. G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL EMERGENCY ENTRANCES AND SHALL NOT BLOCK ACCESS.
6. CONTRACTOR SHALL INFORM THE OWNER PRIOR TO ANY DEMOLITION AND SHALL SCHEDULE SUCH DEMOLITION IN A MANNER NOT TO INTERFERE WITH THE OWNER'S OPERATIONS AS OUTLINED IN AN AGREED PHASING PLAN AND SCHEDULE. ANY LOUD NOISE TYPE ACTIVITIES (I.E. CONCRETE SAW CUTTING, JACK HAMMERING) WILL NEED TO OCCUR OUTSIDE OF REGULAR BUSINESS HOURS.

## LEGEND

-  AREA NOT A PART
-  INDICATES DEMO

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DRAWING HISTORY

No.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

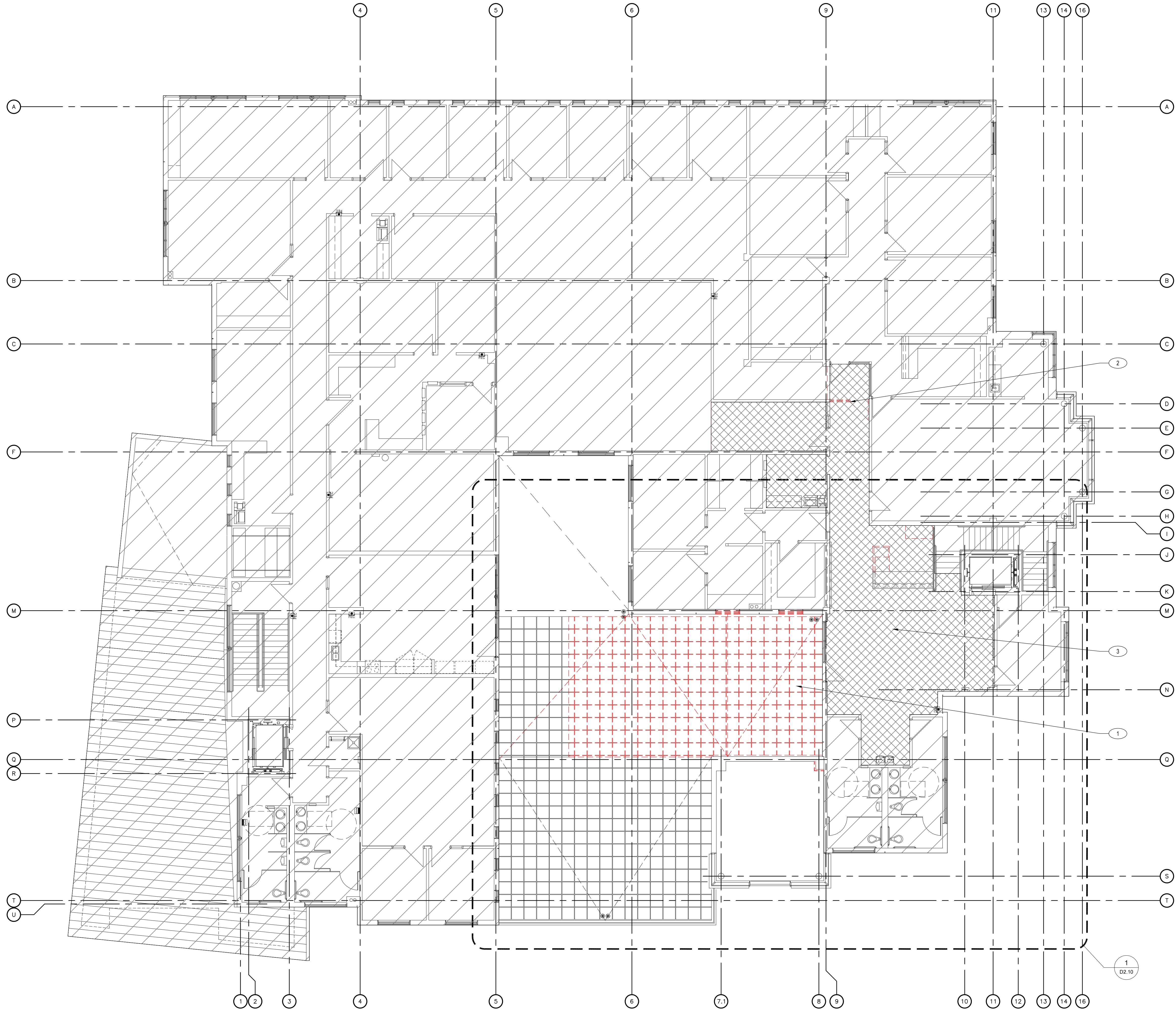
SHEET TITLE

Ground Floor Enlarged  
Partial Demolition Plans

SHEET NUMBER

D1.10





SECOND FLOOR OVERALL DEMOLITION PLAN 1/8"=1'-0" 1

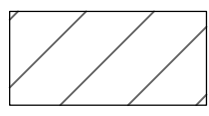

# DEMO FLOOR KEYED NOTES

1. REMOVE EXISTING CONCRETE PAVER SYSTEM ON LEVELING PEDESTAL. STORE FOR RE-USE.
2. REMOVE EXISTING ALUMINUM DOOR AND WINDOW, STORE FOR RE-USE. EXTEND CABLE FOR CARD READER TO NEW LOCATION. SEE SHEET A2.10.
3. REMOVE EXISTING FLOOR AND BASE FINISH. PREP SURFACE FOR NEW FINISH.

GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
3. G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL EMERGENCY ENTRANCES AND SHALL NOT BLOCK ACCESS.
5. CONTRACTOR SHALL INFORM THE OWNER PRIOR TO ANY DEMOLITION AND SHALL SCHEDULE SUCH DEMOLITION IN A MANNER NOT TO INTERFERE WITH THE OWNER'S OPERATIONS AS OUTLINED IN AN AGREED PHASING PLAN AND SCHEDULE. ANY LOUD NOISE TYPE ACTIVITIES (I.E. CONCRETE SAW CUTTING, JACK HAMMERING) WILL NEED TO OCCUR OUTSIDE OF REGULAR BUSINESS HOURS.

LEGEND

-  AREA NOT A PART
-  INDICATES DEMO

CLIENT



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ARCHITECT



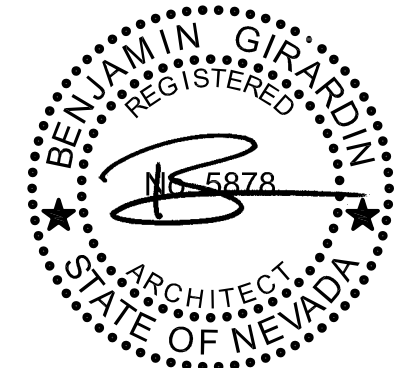
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08/02/2024

DRAWING HISTORY

No.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

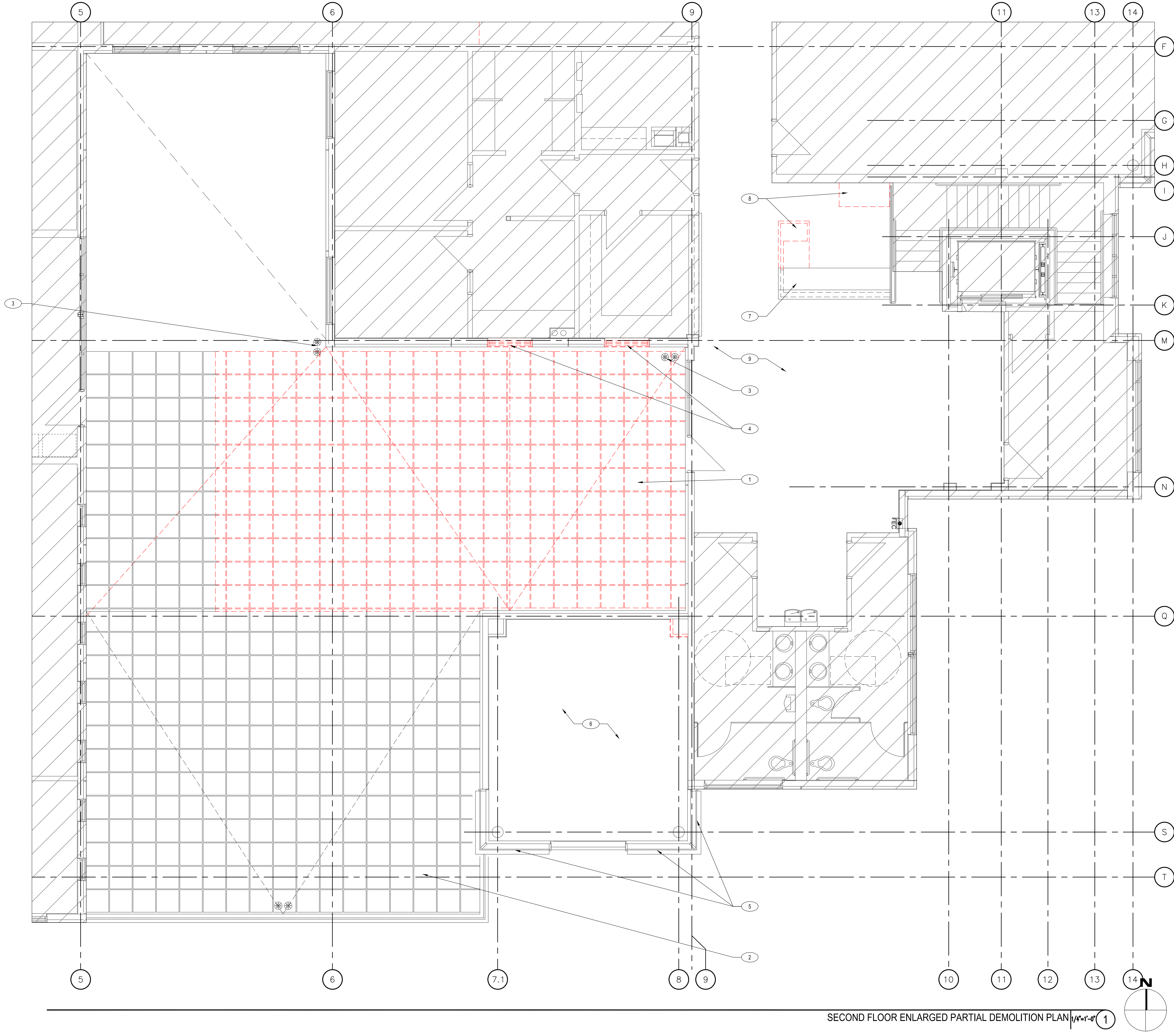
Second Floor Overall  
Demolition Plan

SHEET NUMBER

D2.00



FILE NAME: 19030.DWG  
DATE STAMP: 02/20/24 4:50:19 PM



## # DEMO FLOOR KEYED NOTES

1. EXISTING CONCRETE ROOF PAVERS SYSTEM ON LEVELING PEDESTALS TO BE REMOVE. STORE FOR RE-USE.
2. EXISTING CONCRETE PAVERS SYSTEM TO REMAIN.
3. EXISTING ROOF AND OVERFLOW DRAINS. REFER TO PLUMBING DRAWINGS.
4. EXISTING EXTERIOR WINDOWS TO BE REMOVE. STORE FOR RE-USE.
5. EXISTING CURTAIN WALL SYSTEM TO REMAIN. SEE PROPOSED PLAN FOR ALTERATIONS.
6. EXISTING ATRIUM OPEN AREA TO BE FRAME FOR SECOND FLOOR LEVEL. REFER TO STRUCTURAL DRAWINGS.
7. EXISTING CASEWORK TO REMAIN.
8. EXISTING CASEWORK TO BE DEMOLISH.
9. EXISTING FLOOR AND BASE FINISH TO BE REMOVE. PREP EXISTING SURFACE FOR NEW FLOOR AND BASE FINISH. SEE SHEET D2.00 FOR EXTENT OF WORK.

## GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
3. THE CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL EMERGENCY ENTRANCES AND SHALL NOT BLOCK ACCESS.
4. CONTRACTOR SHALL INFORM THE OWNER PRIOR TO ANY DEMOLITION AND SHALL SCHEDULE SUCH DEMOLITION IN A MANNER NOT TO INTERFERE WITH THE OWNER'S OPERATIONS AS OUTLINED IN AN AGREED PHASING PLAN AND SCHEDULE.

## LEGEND

- AREA NOT A PART
- INDICATES DEMO

CLIENT



[T]  
[F]

ARCHITECT



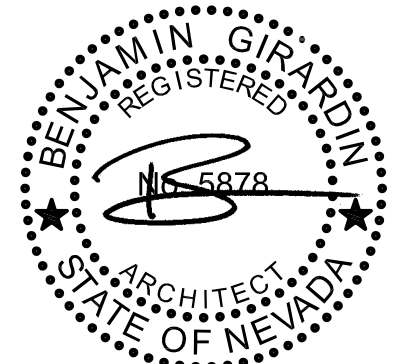
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DRAWING HISTORY

No.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

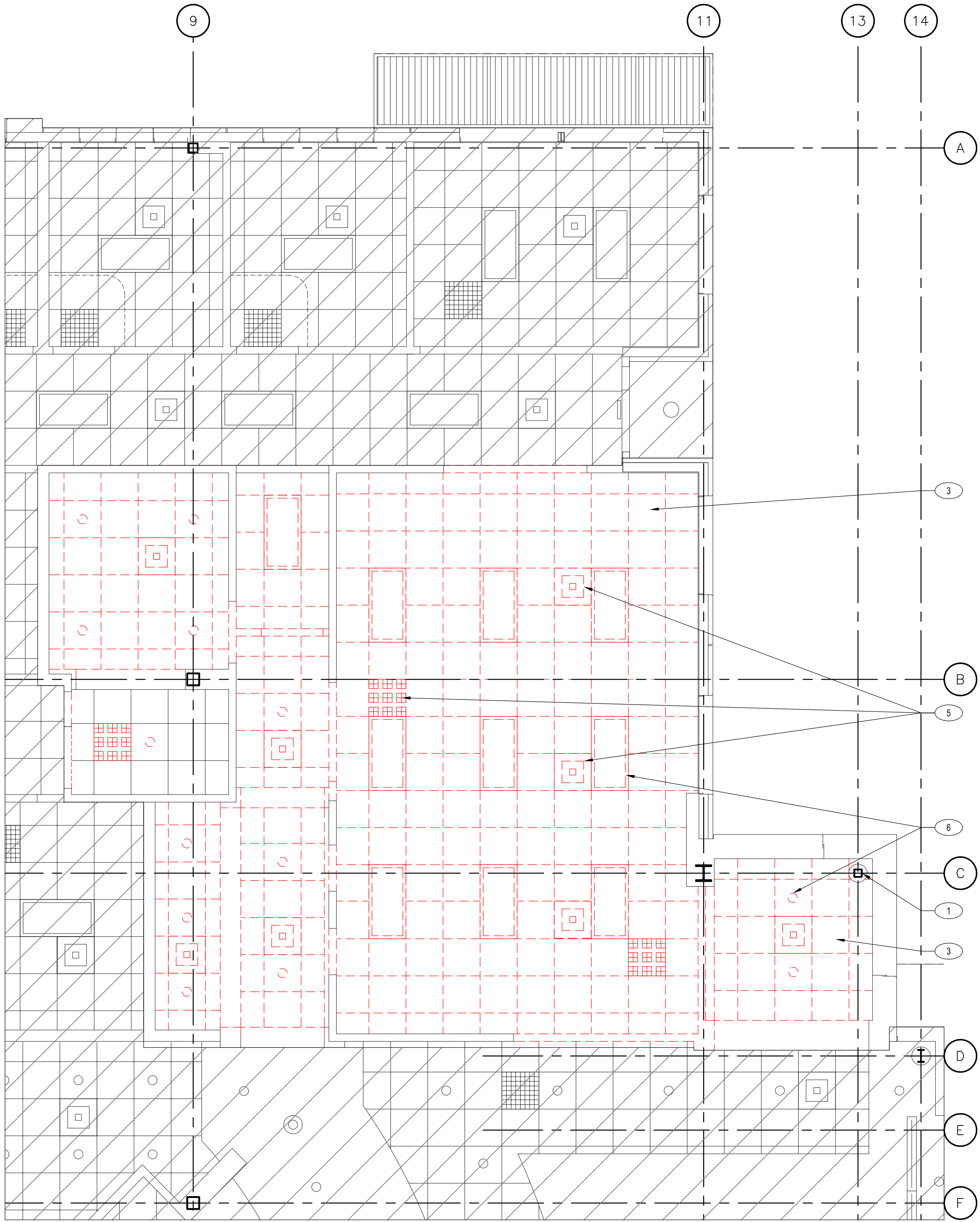
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Partial Demolition Plan

SHEET NUMBER

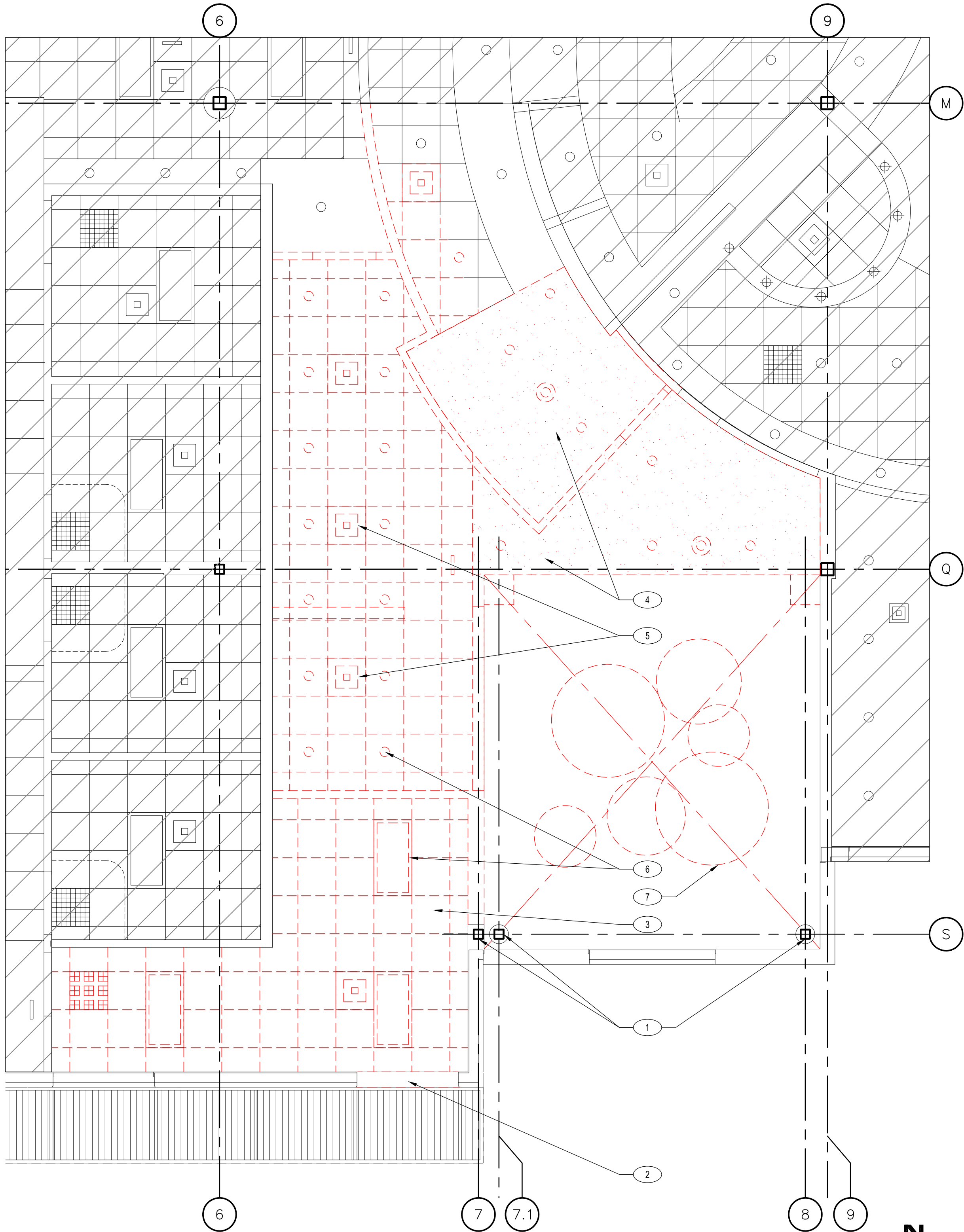
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FILE NAME: 19030.D11006  
DATE STAMP: 02/02/24 08:29



GROUND FLOOR ENLARGED PARTIAL DEMOLITION CEILING PLAN 1/4"=1'-0" 2



GROUND FLOOR ENLARGED PARTIAL DEMOLITION CEILING PLAN 1/4"=1'-0" 1

## # DEMO FLOOR KEYED NOTES

1. EXISTING STRUCTURAL COLUMN TO REMAIN.
2. EXISTING HIGH WINDOW TO BE REMOVE. STORE FOR RE-USE.
3. EXISTING CEILING GRID TO BE DEMOLISH AND REMOVE. SEE PROPOSED LAYOUT FOR NEW CEILING.
4. EXISTING HARD LID CEILING TO BE DEMOLISH AND REMOVE. SEE PROPOSE LAYOUT NEW CEILING.
5. EXISTING MECHANICAL DIFFUSER TO BE REMOVE AND INSTALL NEW. REFER TO MECHANICAL DRAWINGS.
6. EXISTING ELECTRICAL LIGHT FIXTURES TO BE REMOVE AND INSTALL NEW. REFER TO ELECTRICAL DRAWINGS.
7. EXISTING CEILING HUNG ART PIECES TO BE CAREFULLY REMOVE. STORE FOR RE-USE.

CLIENT



[T]  
[F]

ARCHITECT

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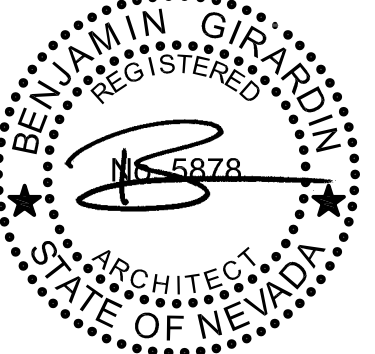
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## GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
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DRAWING HISTORY		
No.	DESCRIPTION	DATE

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

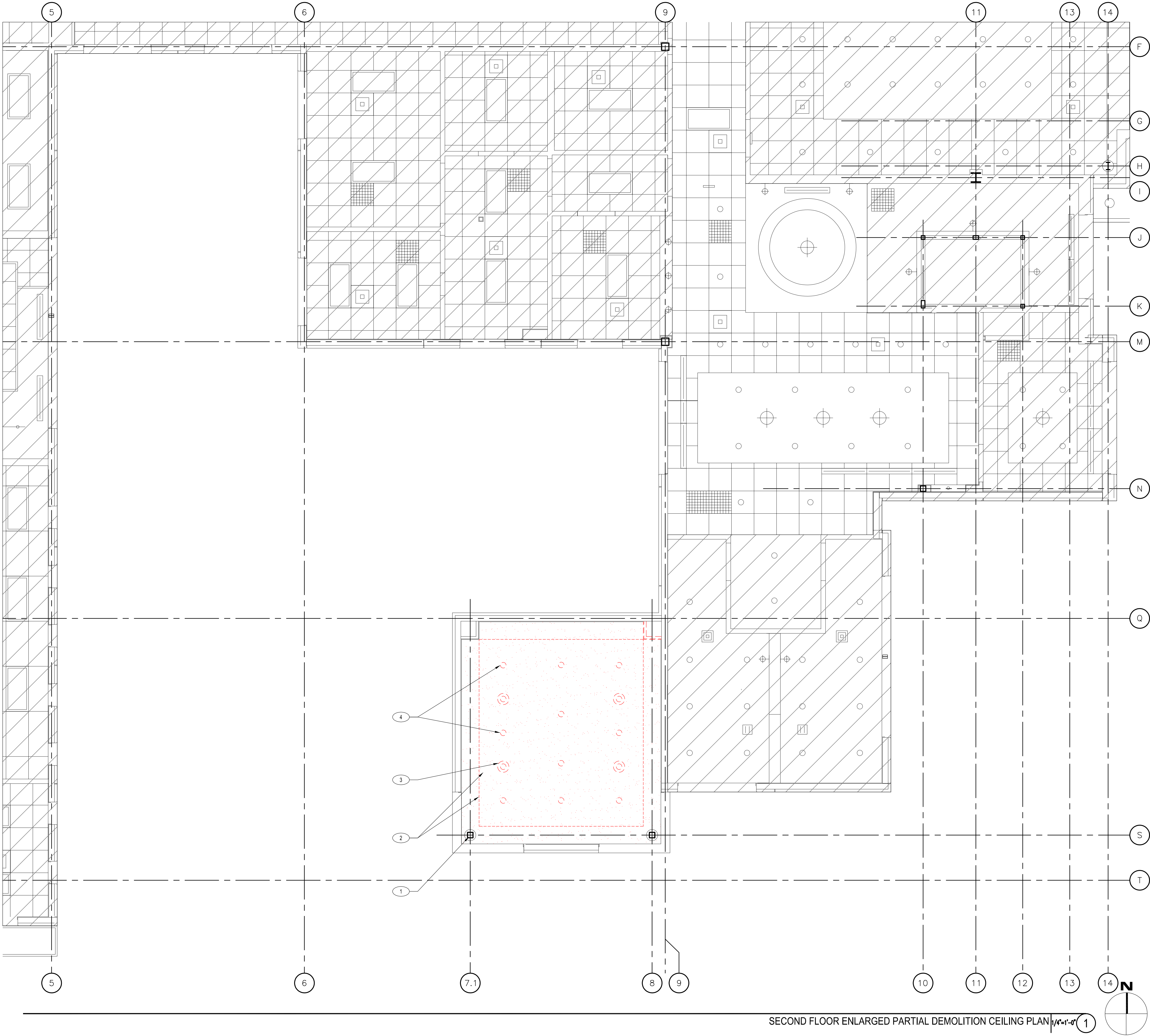
SHEET TITLE

Ground Floor Enlarged  
Partial Demolition  
Ceiling Plans

SHEET NUMBER

D3.10







## # DEMO FLOOR KEYED NOTES

1. EXISTING STRUCTURAL COLUMN TO REMAIN.
2. EXISTING HARD LID CEILING AND SOFFIT TO DEMOLISH AND REMOVE. INSTALL NEW CEILING.
3. EXISTING MECHANICAL DIFFUSER TO BE REMOVE AND INSTALL NEW. REFER TO MECHANICAL DRAWINGS.
4. EXISTING ELECTRICAL LIGHT FIXTURES TO BE REMOVE AND INSTALL NEW. REFER TO ELECTRICAL DRAWINGS.

## GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
3. G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
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## LEGEND

-  AREA NOT A PART
-  INDICATES DEMO

## CLIENT



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## ARCHITECT



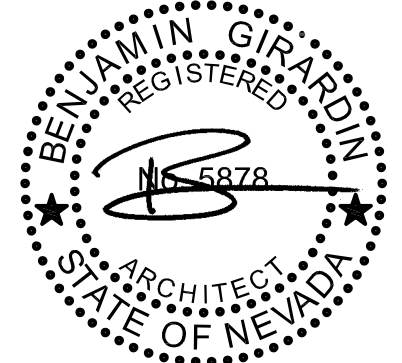
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DRAWING HISTORY		
No.	DESCRIPTION	DATE

## PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

## PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

## PROJECT NUMBER

1007689.00

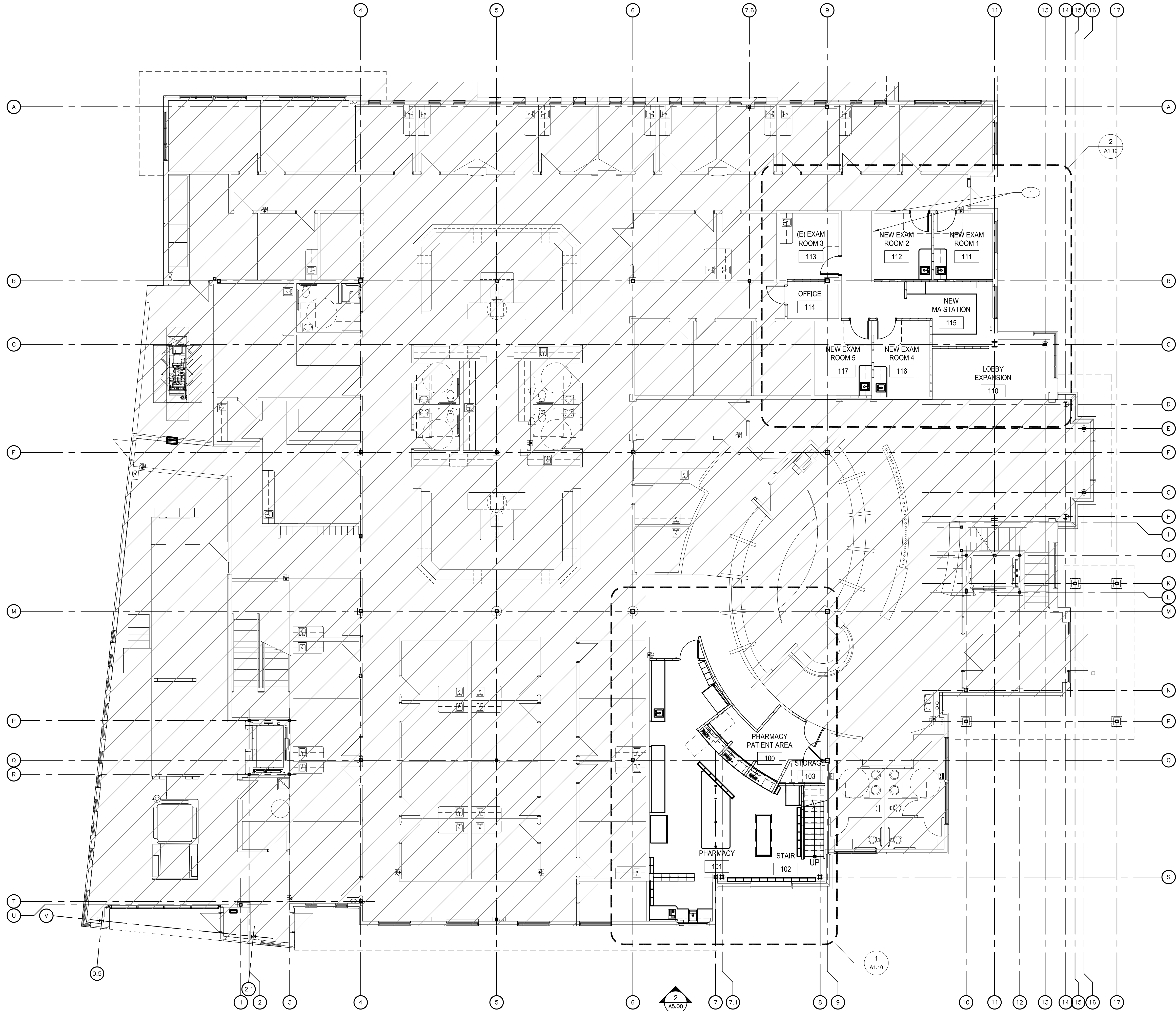
## SHEET TITLE

Second Floor Enlarged  
Partial Demolition  
Ceiling Plan

## SHEET NUMBER

D3.20





GROUND FLOOR OVERALL FLOOR PLAN 1/8"=1'-0" 1

# FLOOR KEYED NOTES

1. EXISTING WALL

GENERAL NOTES

- G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
- RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
- G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL EMERGENCY ENTRANCES AND SHALL NOT BLOCK ACCESS.
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LEGEND

AREA NOT A PART

CLIENT



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ARCHITECT



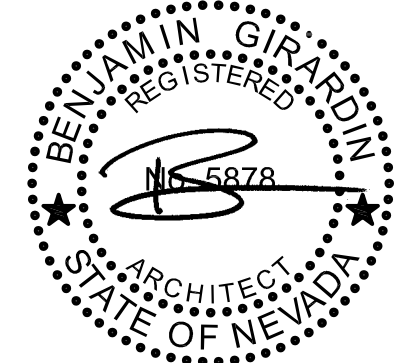
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DRAWING HISTORY		
No.	DESCRIPTION	DATE

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

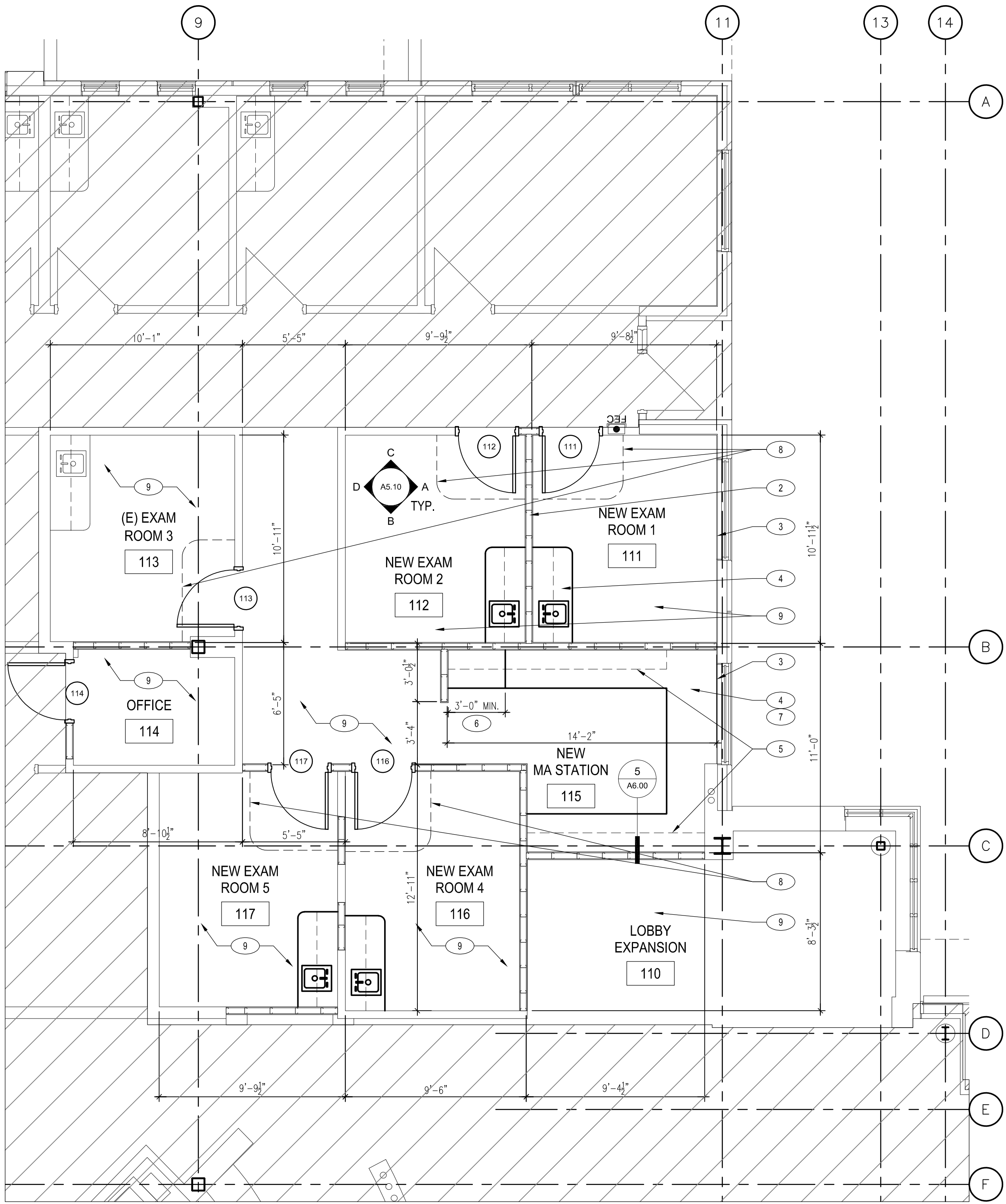
SHEET TITLE

Ground Floor Overall  
Floor Plan

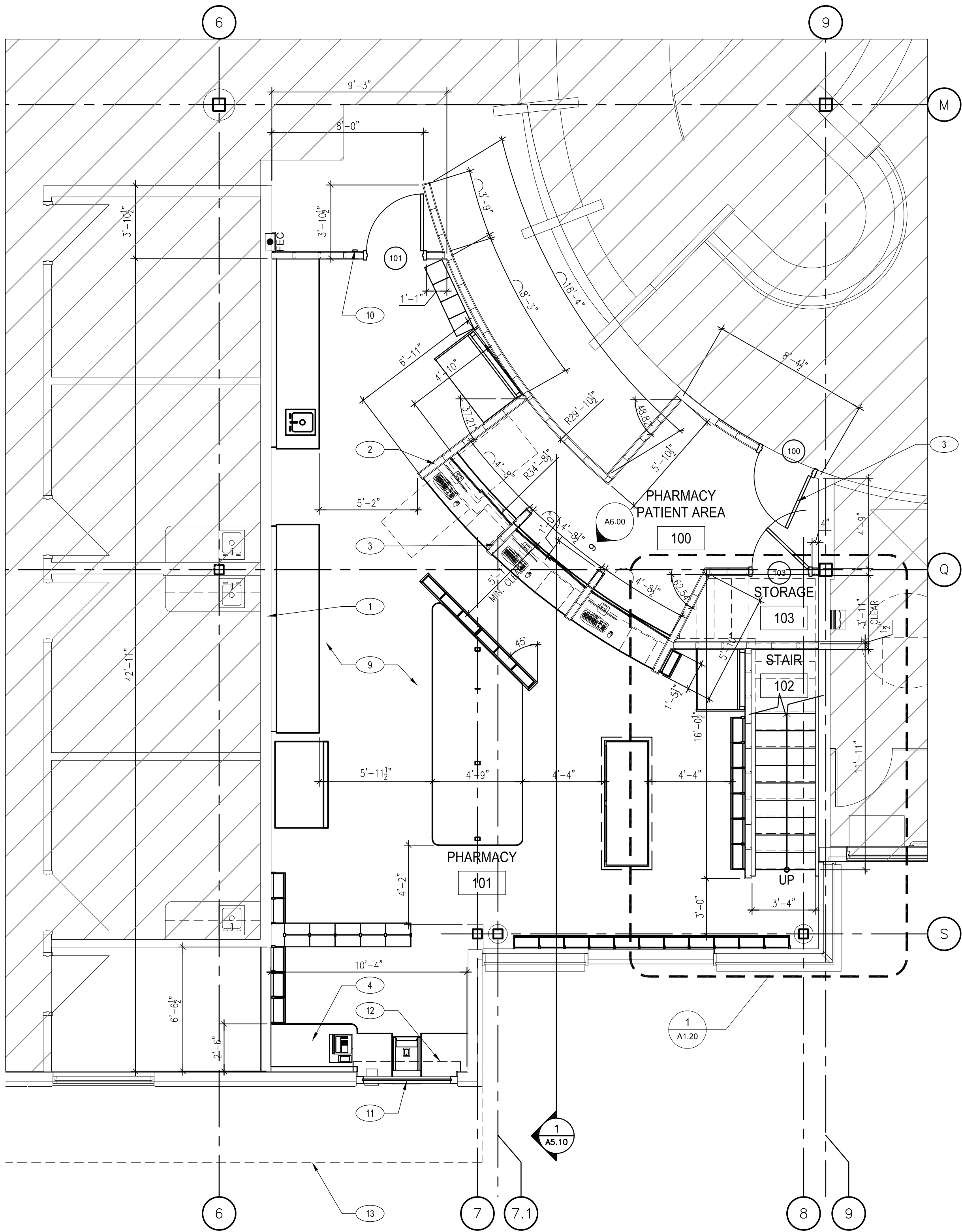
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A1.00





GROUND FLOOR ENLARGED PARTIAL FLOOR PLAN 1/4"=1'-0" 2



GROUND FLOOR ENLARGED PARTIAL FLOOR PLAN 1/4"=1'-0" 1

## # FLOOR KEYED NOTES

- EXISTING WALL.
- NEW FULL HEIGHT WALL. 3-5/8" METAL STUD WITH 5/8" SOUND BOARD ON BOTH SIDES. PROVIDE SOUND ATTENUATION INSULATION IN WALL CAVITY. WHOLE WALL ASSEMBLY SHOULD ATTAIN A MINIMUM OF STC = 50.
- PROVIDE DOOR/WINDOW BLIND TREATMENTS. GC TO INCLUDE THIS IN THE ESTIMATE.
- NEW MILLWORK. SEE A6.00
- NEW UPPER CABINET. SEE 4/A6.00 (SIM.)
- ADA (34" HEIGHT) CASEWORK.
- 42" HEIGHT CASEWORK.
- MEDICAL CURTAIN TO MATCH EXISTING. GC TO INCLUDE THIS IN THE ESTIMATE.
- LVT FLOOR FINISH AND RUBBER WALL BASE TO MATCH EXISTING.
- CARD ACCESS SCANNER.
- WALK THROUGH TRANSFER WINDOW. SEE 8/A6.00.
- OUTLINE OF ROLL-UP WINDOW SHUTTER. CORNELL SHUTTERS OR APPROVED EQUAL.
- OUTLINE OF EXISTING METAL AWNING.

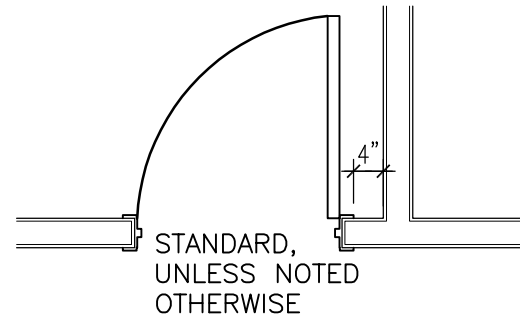
## GENERAL NOTES

- G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
- RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
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## LEGEND

- AREA NOT A PART
- DOOR TAG SEE A7.00

## DOOR PLACEMENT LEGEND



CLIENT



[T]  
[F]

ARCHITECT



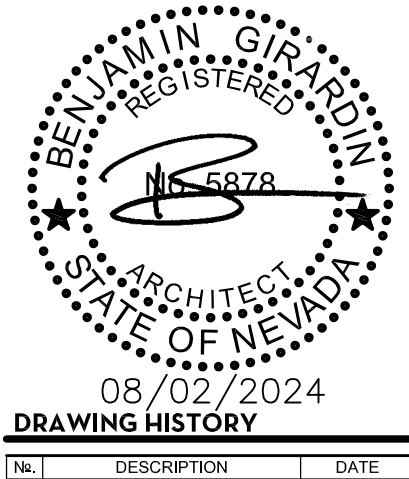
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

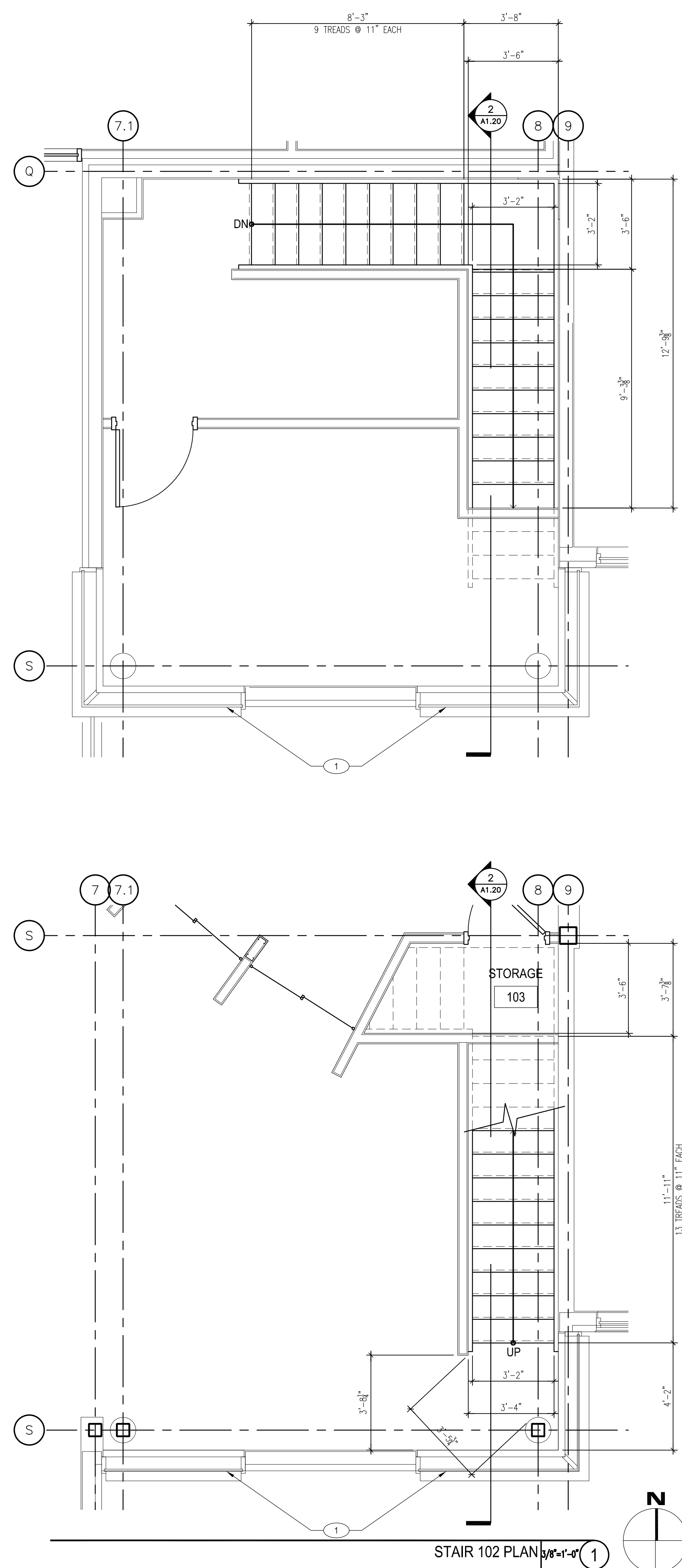
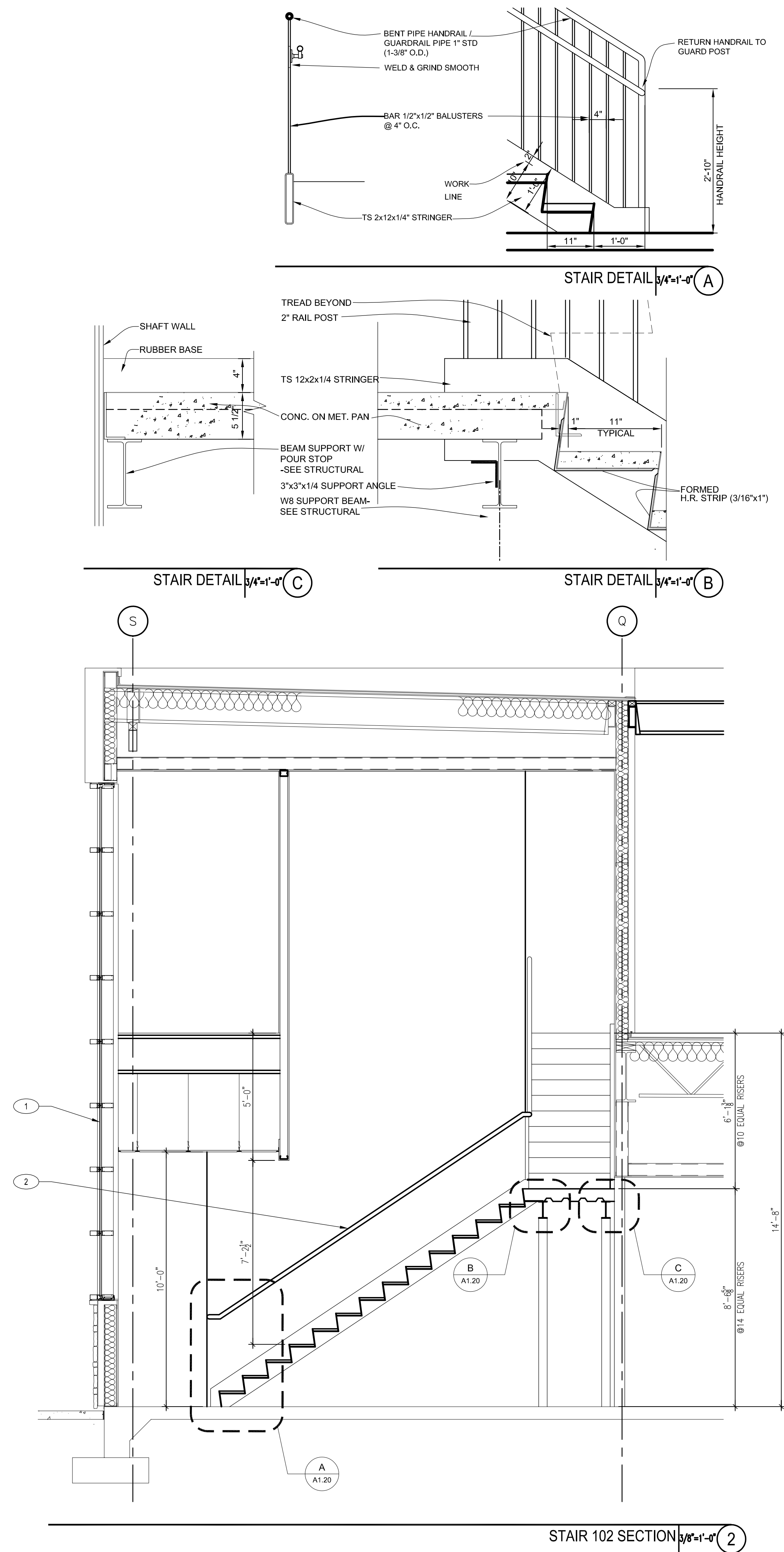
SHEET TITLE

Ground Floor Enlarged  
Partial Floor Plans

SHEET NUMBER

A1.10





- ## KEYED NOTES

1. EXISTING CURTAIN WALL SYSTEM TO REMAIN.
2. NEW STAINLESS STEEL HANDRAIL.

- ## GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
3. G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
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## CLIENT

7  
F]

## ARCHITECT



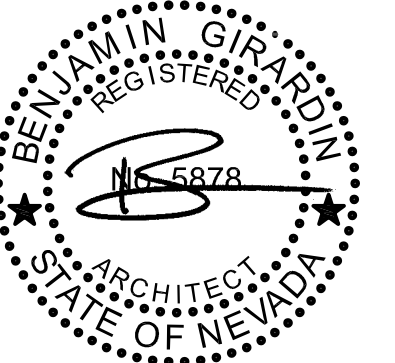
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DESCRIPTION	DATE
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PROJECT NAME

# EVADA HEALTH ENTERS MLK FAMILY HEALTH

## PROJECT LOCATION

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Las Vegas, NV 89106

PROJECT NUMBER

007689.00

**SHEET TITLE**

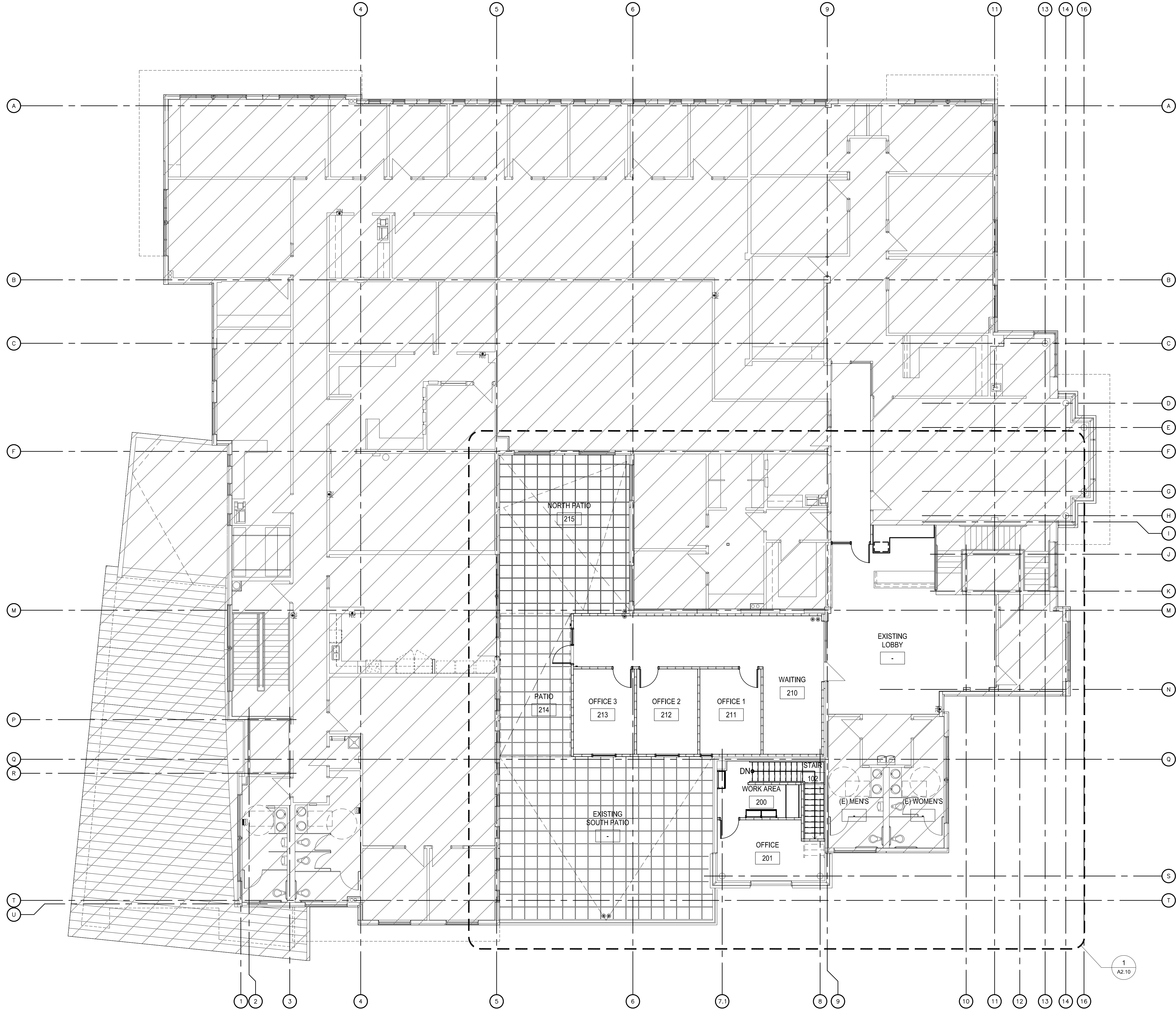
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SHEET NUMBER

A1.20

FILE NAME: 7689.CO A1.20.DWG  
DATE STAMP: 8/2/2024 3:17:04 PM





SECOND FLOOR OVERALL FLOOR PLAN 1/8"=1'-0" 1

# FLOOR KEYED NOTES

1. EXISTING WALL

GENERAL NOTES

- G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
- RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
- G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
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LEGEND

AREA NOT A PART

CLIENT



[T]  
[F]

ARCHITECT



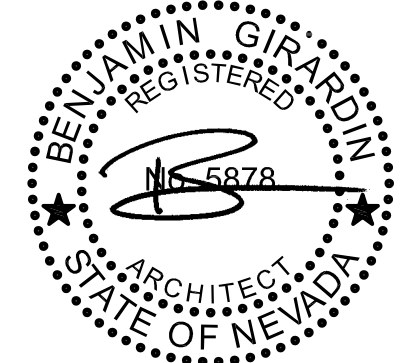
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DRAWING HISTORY		
No.	DESCRIPTION	DATE

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

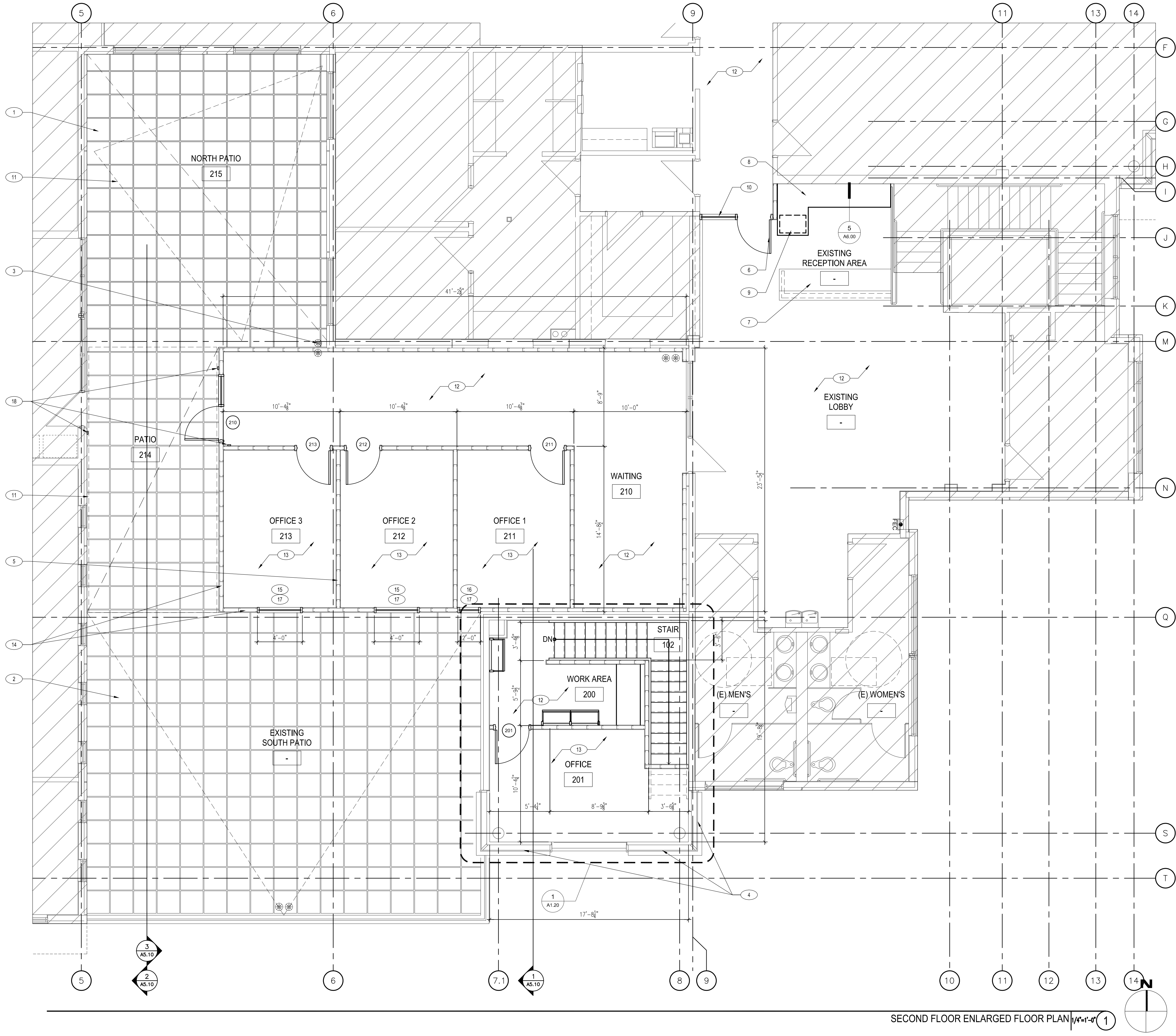
Second Floor Overall  
Floor Plan

SHEET NUMBER

A2.00



FILE NAME: 17000000 CLT.DWG  
DATE STAMP: 08/02/2024 9:00:35 AM



SECOND FLOOR ENLARGED FLOOR PLAN 1/4"=1'-0" 1

## # FLOOR KEYED NOTES

1. INSTALL EXISTING CONCRETE ROOF PAVERS SYSTEM ON LEVELING PEDESTALS.
2. EXISTING CONCRETE PAVERS SYSTEM.
3. EXISTING ROOF AND OVERFLOW DRAINS. REFER TO PLUMBING DRAWINGS.
4. EXISTING CURTAIN WALL SYSTEM.
5. NEW FULL HEIGHT WALL. 3'-5/8" METAL STUD WITH 5/8" SOUND BOARD ON BOTH SIDES. PROVIDE SOUND ATTENUATION INSULATION IN WALL CAVITY. WHOLE ASSEMBLY SHOULD ATTAIN A MINIMUM OF  $STC = 50$ .
6. NEW ALUMINUM GLASS DOOR (TO MATCH EXISTING) ON (E) FRAME. SEE NOTE 10 FOR ADDITIONAL INFO.
7. EXISTING CASEWORK.
8. NEW 34" HIGH CASEWORK.
9. RELOCATED EXISTING BASE CABINET.
10. RELOCATED EXISTING ALUMINUM FRAME AND GLASS WINDOW. RELOCATE CARD LOCK SYSTEM AND CONNECT TO (E) RECEPTION AREA.
11. OUTLINE OF SHADE ABOVE.
12. LVT FLOOR FINISH AND RUBBER WALL BASE TO MATCH EXISTING. SEE SHEET D2.00 FOR EXTENT OF WORK IN THE (E) LOBBY.
13. CARPET TILE FLOOR FINISH AND RUBBER WALL BASE TO MATCH EXISTING.
14. NEW EXTERIOR METAL STUD WALL. STUCCO SYSTEM FINISH. REFER TO STRUCTURAL PLANS.
15. RELOCATED WINDOW.
16. NEW WINDOW. SEE SHEET A7.00.
17. PROVIDE WINDOW BUND TREATMENTS. GC TO INCLUDE THIS IN THE ESTIMATE.
18. CARD ACCESS SCANNER.

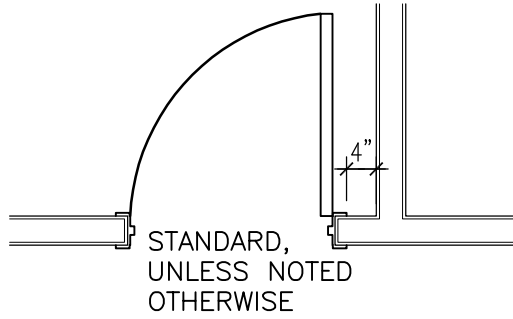
## GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
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## LEGEND

- AREA NOT A PART
- 100 DOOR TAG SEE A7.00

## DOOR PLACEMENT LEGEND



## CLIENT



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## ARCHITECT



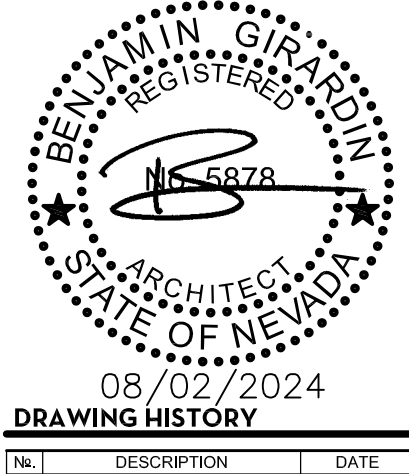
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## REGISTRATION

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## PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

## PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

## PROJECT NUMBER

1007689.00

## SHEET TITLE

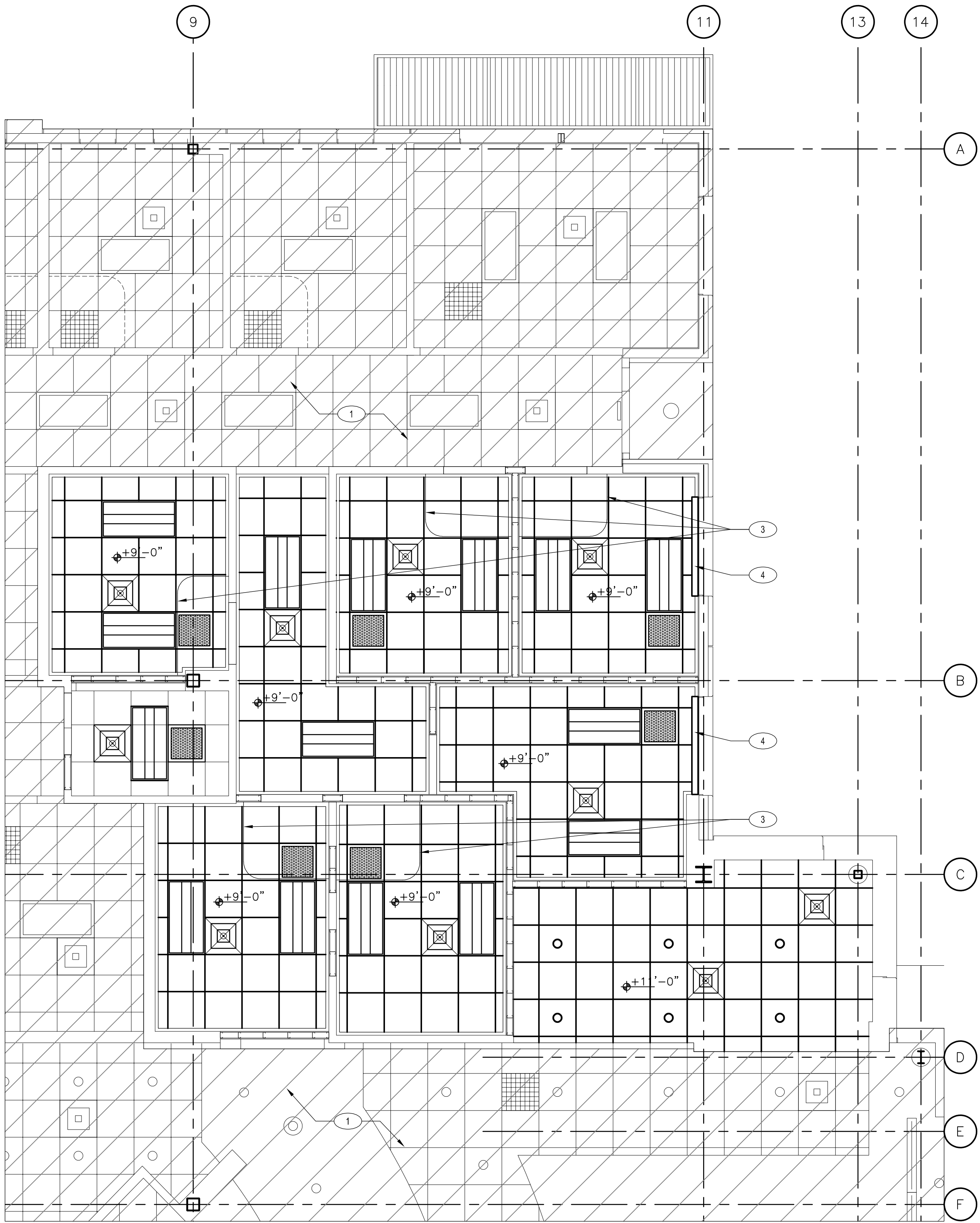
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Partial Floor Plan

## SHEET NUMBER

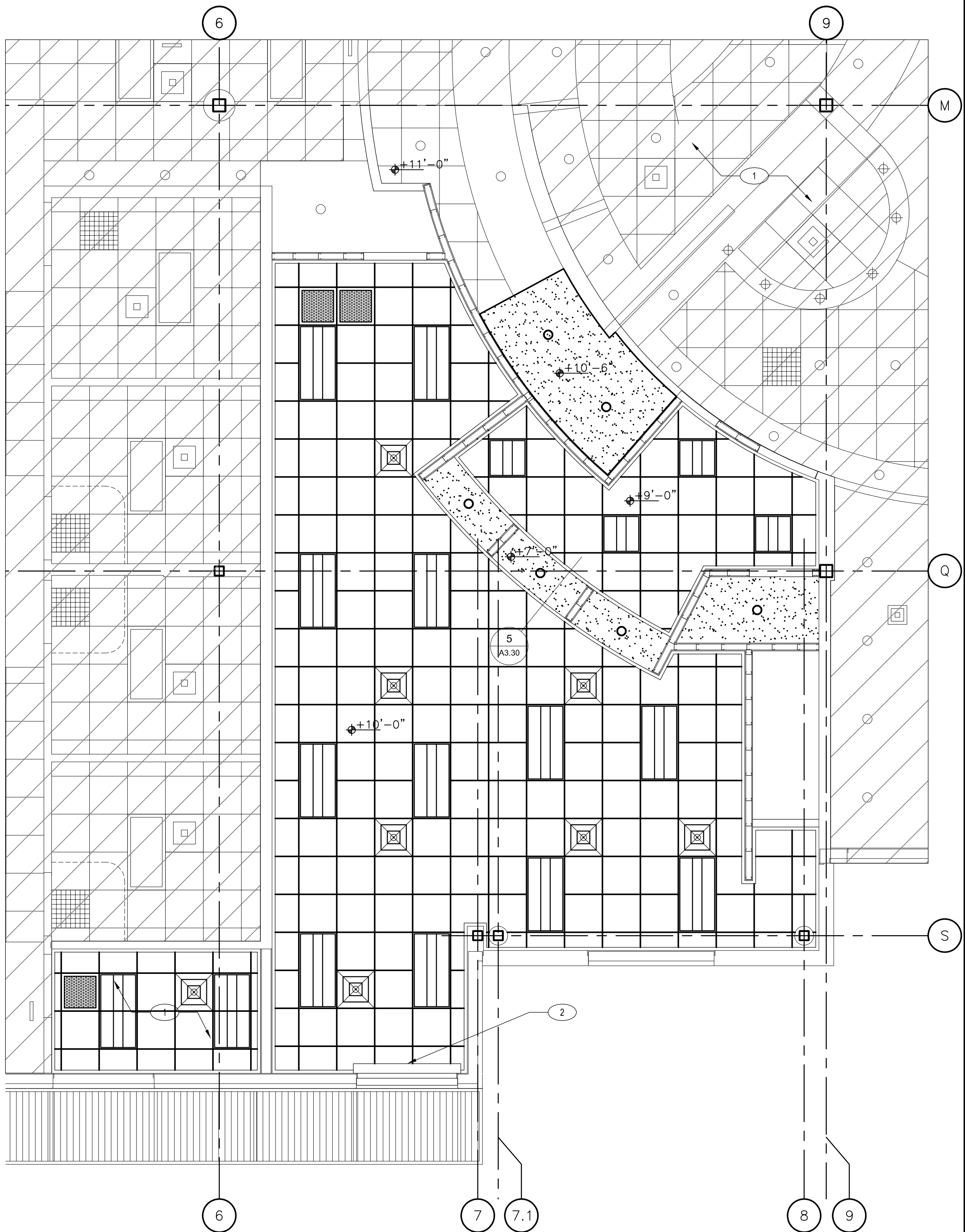
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FILE NAME: 1799 MT. MARIAH DR.  
DATE STAMP: 08/02/2024 4:53:06 PM



GROUND FLOOR ENLARGED PARTIAL CEILING PLAN 1/4"=1'-0" 2



GROUND FLOOR ENLARGED PARTIAL CEILING PLAN 1/4"=1'-0" 1

# CEILING KEYED NOTES

1. EXISTING CEILING.
2. ROLL-UP WINDOW SHUTTER, CORNELL SHUTTERS OR APPROVED EQUAL.
3. MEDICAL CURTAIN AND TRACK TO MATCH EXISTING. GC TO INCLUDE THIS IN THE ESTIMATE. SEE 6/A3.30.
4. PROVIDE WINDOW BLIND TREATMENT. GC TO INCLUDE THIS IN THE ESTIMATE.

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GENERAL NOTES

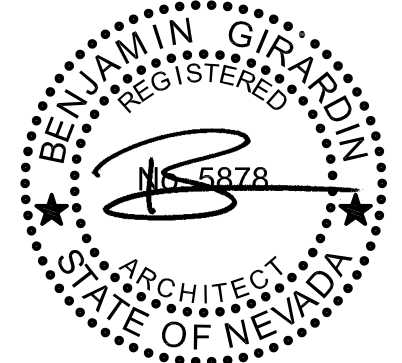
1. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
3. G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL EMERGENCY ENTRANCES AND SHALL NOT BLOCK ACCESS.
5. CONTRACTOR SHALL INFORM THE OWNER PRIOR TO ANY DEMOLITION AND SHALL SCHEDULE SUCH DEMOLITION IN A MANNER NOT TO INTERFERE WITH THE OWNER'S OPERATIONS AS OUTLINED IN AN AGREED PHASING PLAN AND SCHEDULE. ANY LOUD NOISE TYPE ACTIVITIES (I.E. CONCRETE SAW CUTTING, JACK HAMMERING) WILL NEED TO OCCUR OUTSIDE OF REGULAR BUSINESS HOURS.

CEILING LEGEND

- 2'-0"x2'-0" CEILING TILE W/ SHADOWLINE TAPERED EDGE. USG, OLYMPIA MICRO ACOUSTICAL PANELS WITH CAC 40 (MIN.), COLOR WHITE & DONN BRAND DXL 15/16 ACOUSTICAL SUSPENSION SYSTEM - SEE 1/A3.30
- GYP. BD CEILING, PAINTED (FLAT) - SEE 2/A3.30
- 2'-0"x4'-0" LIGHT FIXTURE - REFER TO ELECTRICAL PLANS
- DOWNLIGHT FIXTURE - REFER TO ELECTRICAL PLANS
- SUPPLY AIR DIFFUSERS - REFER TO MECHANICAL PLANS
- RETURN AIR DIFFUSERS - REFER TO MECHANICAL PLANS
- AREA NOT A PART

REGISTRATION

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DRAWING HISTORY

No.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

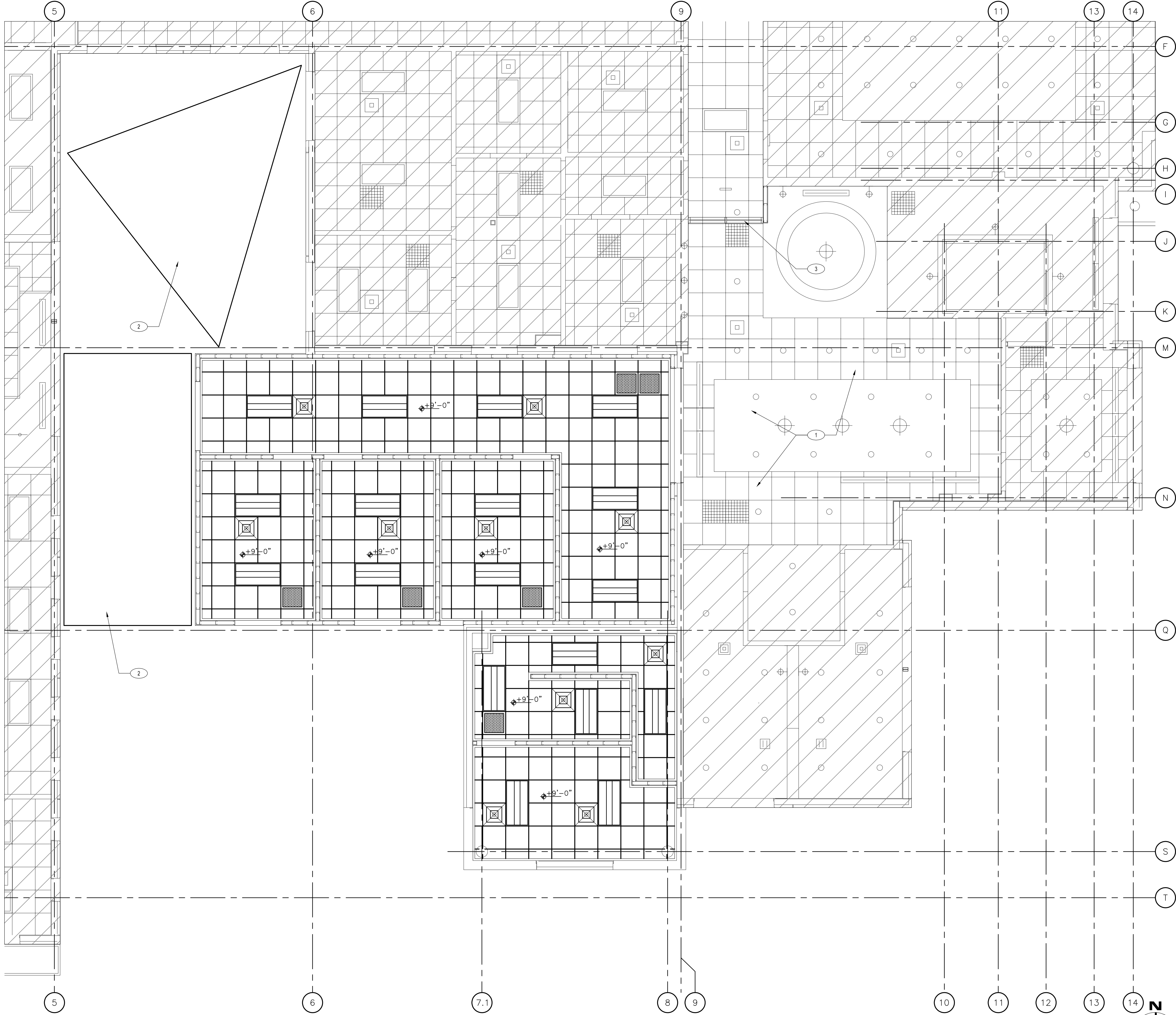
Ground Floor Enlarged  
Partial Ceiling Plans

SHEET NUMBER

A3.10



FILE NAME: 17999.MLK.DWG  
DATE STAMP: 08/02/2024 10:02 AM



SECOND FLOOR ENLARGED PARTIAL CEILING PLAN 1/4"=1'-0" 1

### # CEILING KEYED NOTES

1. EXISTING CEILING TO REMAIN.
2. NEW SHADE FABRIC, USA SHADE OR APPROVE EQUAL. FOLLOW MANUFACTURER'S ATTACHMENT RECOMMENDATION.
3. RELOCATED ALUMINUM DOOR AND WINDOW AT 8' A.F.F.

### GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
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### CEILING LEGEND

- 2'-0"x2'-0" CEILING TILE W/ SHADOWLINE TAPERED EDGE. USG, OLYMPIA MICRO ACOUSTICAL PANELS WITH CAC 40 (MIN.), COLOR WHITE & DONN BRAND DXL 15/16 ACOUSTICAL SUSPENSION SYSTEM - SEE 1/A3.30
- 2'-0"x4'-0" LIGHT FIXTURE - REFER TO ELECTRICAL PLANS
- SUPPLY AIR DIFFUSERS - REFER TO MECHANICAL PLANS
- RETURN AIR DIFFUSERS - REFER TO MECHANICAL PLANS
- AREA NOT A PART

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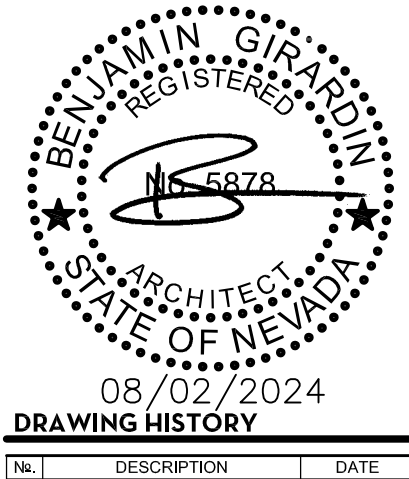
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

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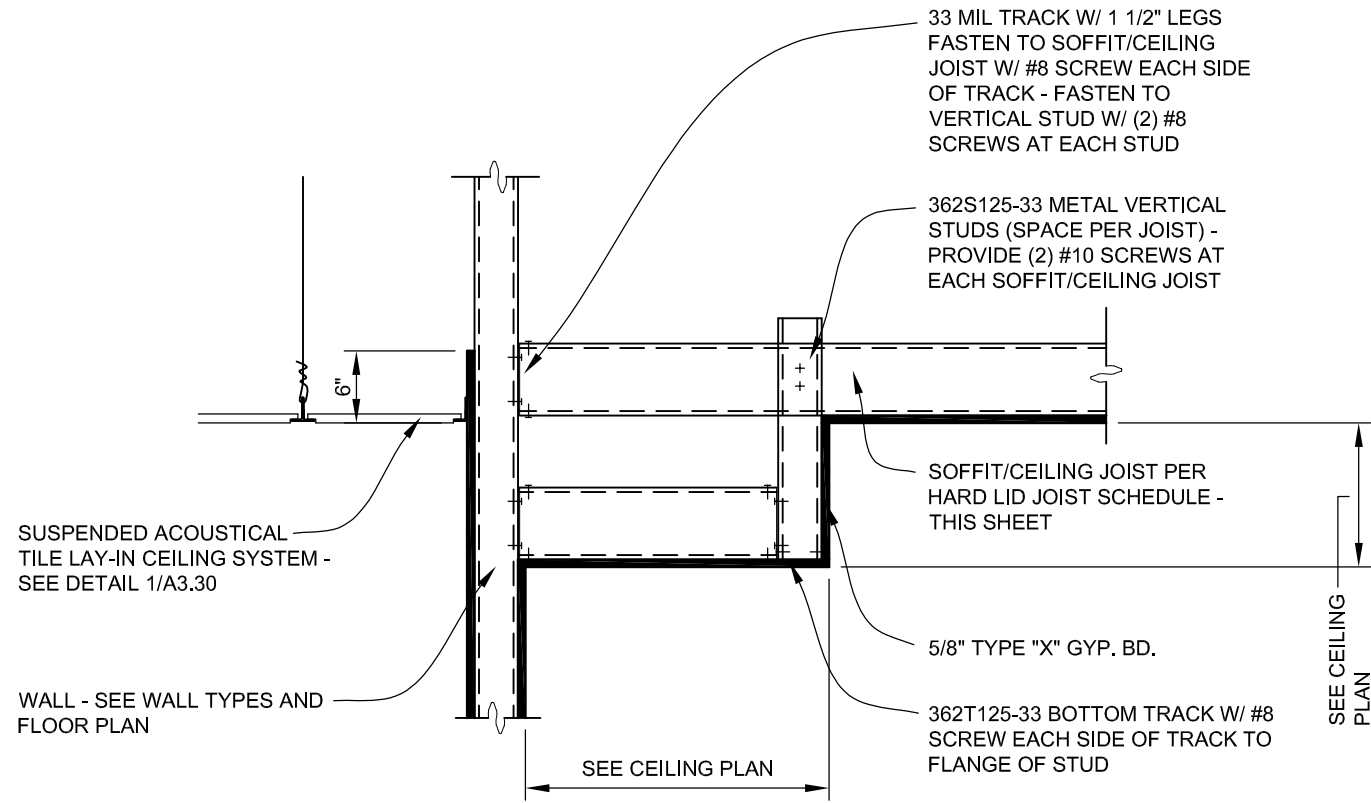
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Second Floor Enlarged  
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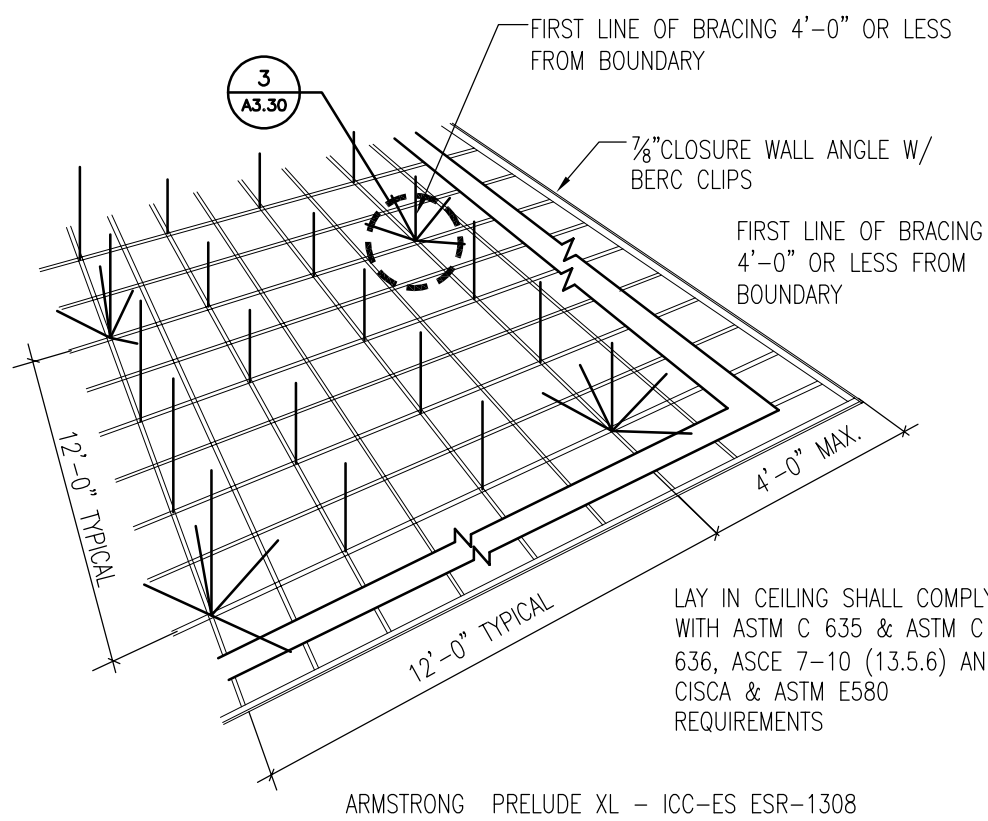
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A3.20

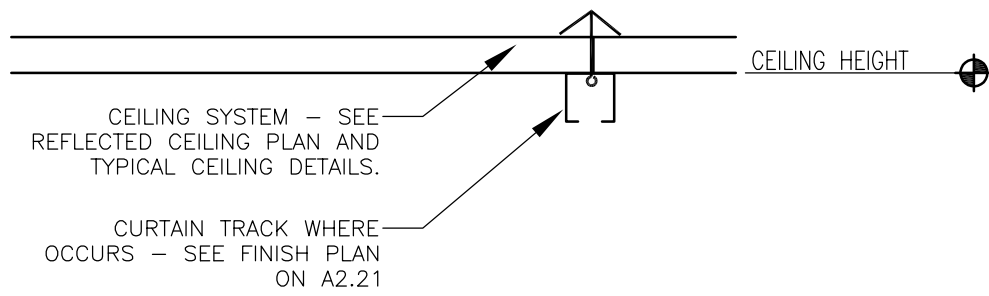




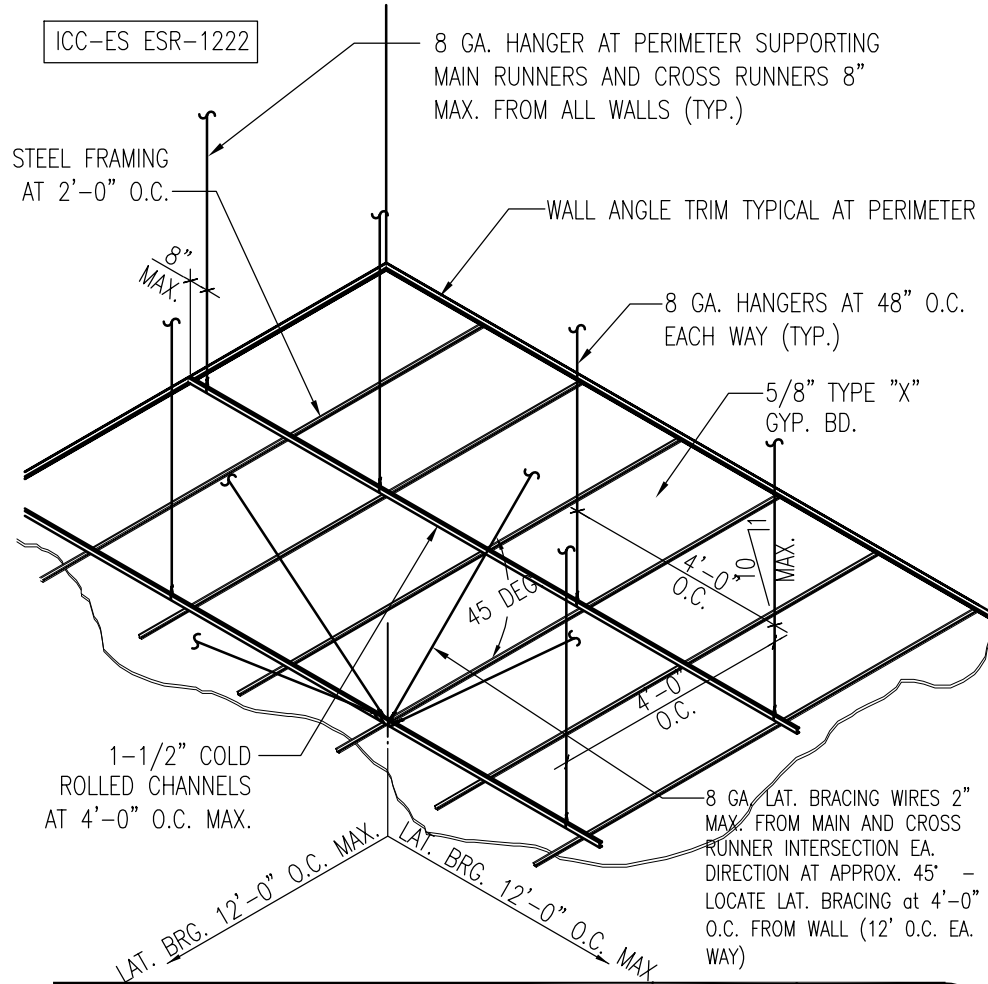
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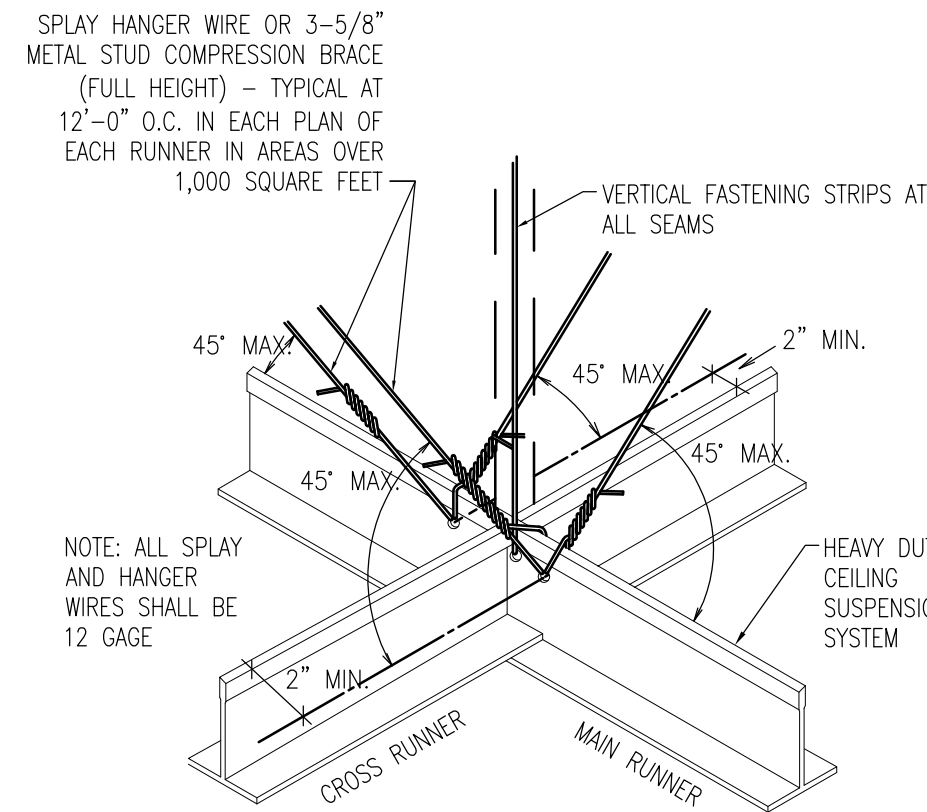
CEILING SUSPENSION SYSTEM DETAIL N.T.S. 1



CUBICLE CURTAIN TRACK N.T.S. 6



SUSPENDED GYP. BD. CEILING N.T.S. 2

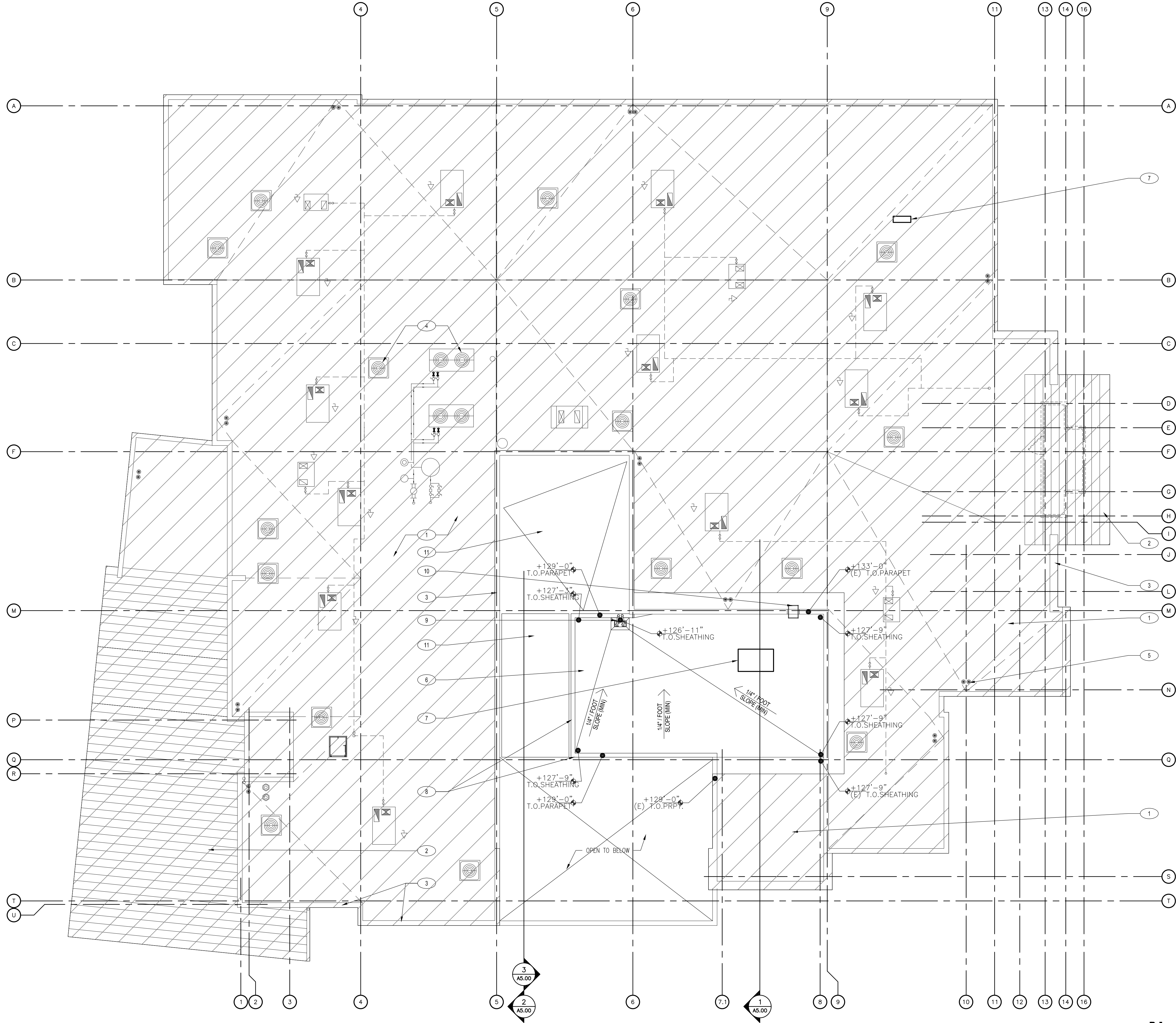


SEISMIC BRACING DETAIL N.T.S. 3

		STUD STYLE																												ALLOWABLE SPAN											
		2205137-27						3625137-33 <sup>(2)</sup>						4005137-33 <sup>(2)</sup>						2205137-43						3625162-43						4005162-43						6005162-54			
UNIFORM LOAD (PSF)		STUD SPACING (Inches on center) SINGLE SPAN																																							
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24										
		10	8'-8"	7'-11"	6'-9"	11'-7"	10'-6"	7'-3"	12'-6"	11'-0"	9'-0"	10'-5"	9'-6"	8'-3"	13'-11"	12'-8"	11'-0"	15'-0"	13'-8"	11'-11"	20'-10"	18'-11"	16'-6"																		
		15	7'-7"	6'-10"	4'-9"	9'-8"	7'-3"	4'-9"	10'-4"	9'-0"	6'-8"	9'-1"	8'-3"	7'-3"	12'-2"	11'-0"	9'-8"	13'-2"	11'-11"	10'-4"	18'-2"	16'-6"	13'-11"																		
		20	6'-9"	5'-4"	-	7'-3"	5'-0"	-	9'-0"	7'-6"	5'-0"	8'-3"	7'-6"	6'-4"	11'-0"	10'-0"	8'-4"	11'-11"	10'-10"	9'-0"	16'-6"	14'-9"	12'-0"																		
UNIFORM LOAD (PSF)		STUD SPACING (Inches on center) DOUBLE AND TRIPLE SPAN																																							
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24										
		10	10'-2"	8'-8"	6'-11"	11'-2"	9'-2"	6'-8"	11'-0"	8'-9"	6'-3"	12'-11"	11'-9"	10'-1"	17'-3"	15'-8"	13'-3"	18'-8"	16'-11"	14'-3"	25'-9"	21'-10"	16'-10"																		
		15	8'-2"	6'-11"	5'-9"	8'-4"	6'-8"	4'-9"	8'-0"	6'-9"	4'-4"	11'-4"	10'-0"	8'-2"	15'-0"	13'-3"	18'-2"	15'-0"	14'-3"	20'-3"	16'-10"	13'-10"																			
		20	6'-11"	5'-9"	4'-4"	6'-8"	5'-3"	-	6'-3"	4'-10"	-	10'-0"	8'-9"	7'-1"	13'-3"	11'-6"	9'-4"	14'-3"	12'-4"	9'-9"	16'-10"	13'-10"	10'-2"																		
NOTES:																																									

HARD LID JOIST SCHEDULE N.T.S. 4





OVERALL FOOR PLAN 1/8"=1'-0" 1

## # ROOF KEYED NOTES

- (E) ROOFING SYSTEM.
- (E) STANDING SEAM METAL ROOFING.
- (E) PARAPET WALL.
- (E) MECHANICAL ROOF UNITS, TYP.
- (E) ROOF AND OVERFLOW DRAINS.
- ROOFING SYSTEM. SEE 1/A4.30
- MECHANICAL ROOF EQUIPMENT. REFER TO MECHANICAL DRAWINGS AND SEE 4/A4.30 FOR MECHANICAL CURB DETAIL.
- PARAPET WALL.
- ROOF AND OVERFLOW DRAINS. SEE 10/A4.30.
- TRANSFER LADDER. SEE 8/A4.30.
- NEW SHADE FABRIC, USA SHADE OR APPROVE EQUAL. FOLLOW MANUFACTURER'S ATTACHMENT RECOMMENDATION.

## GENERAL NOTES

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## LEGEND

 AREA NOT A PART

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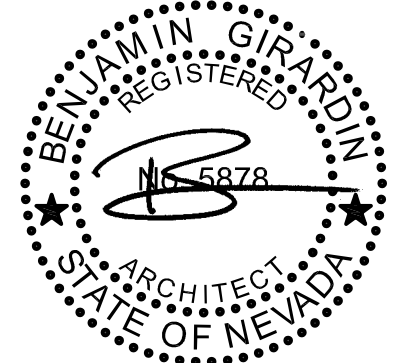
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08/02/2024

DRAWING HISTORY

No.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

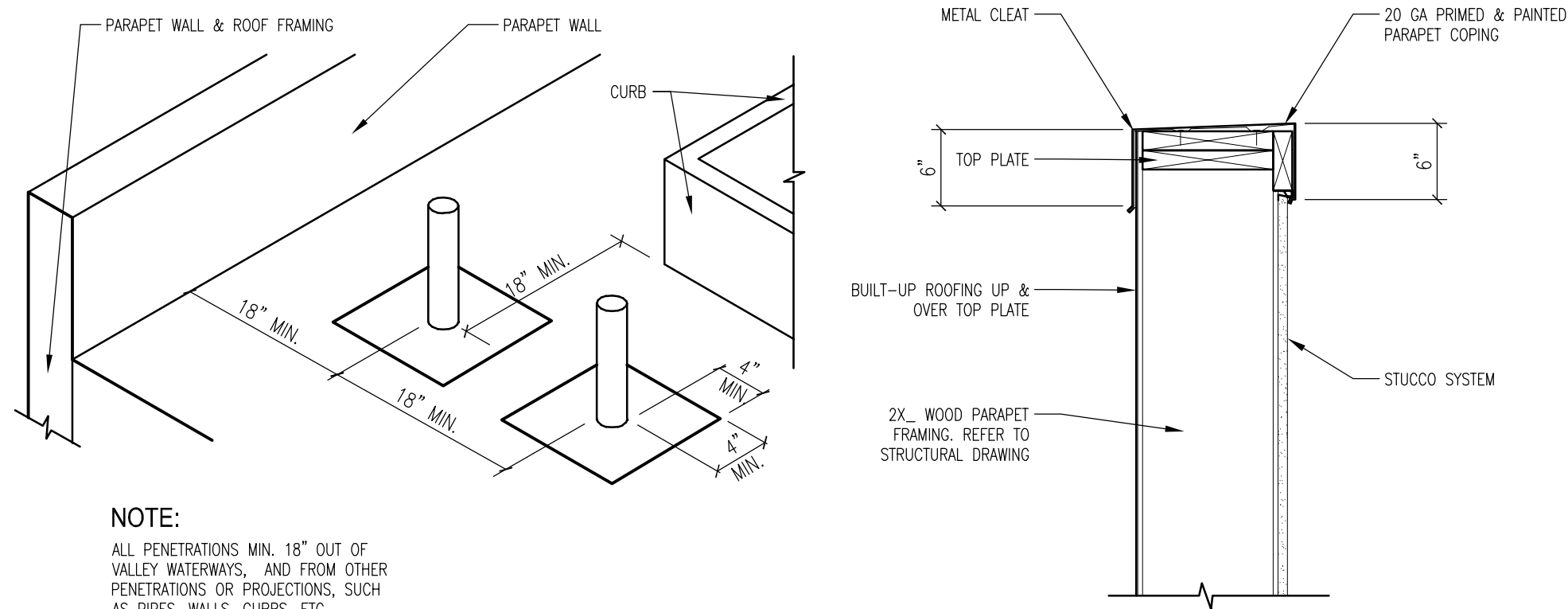
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Overall Roof Plan

SHEET NUMBER

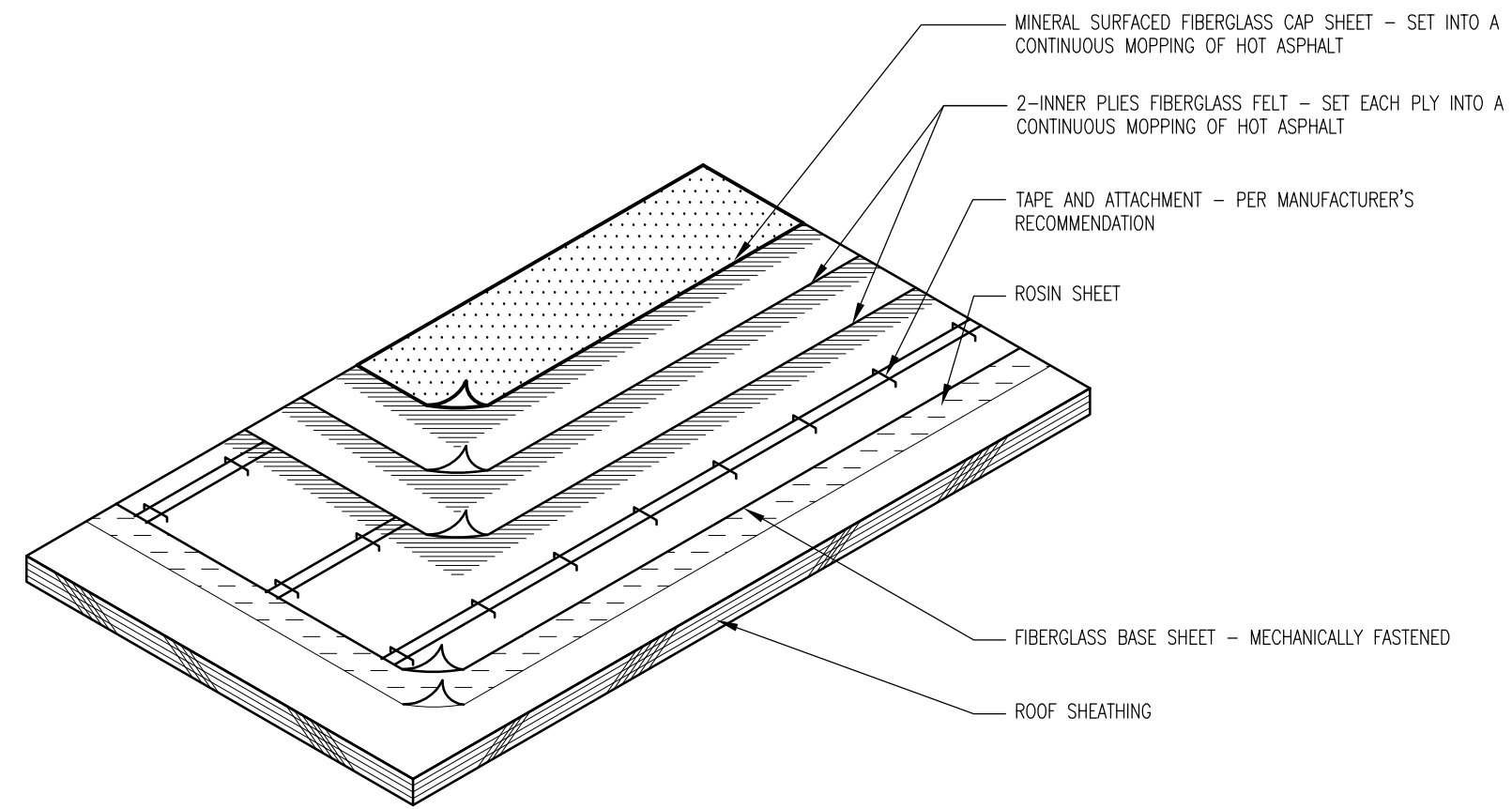
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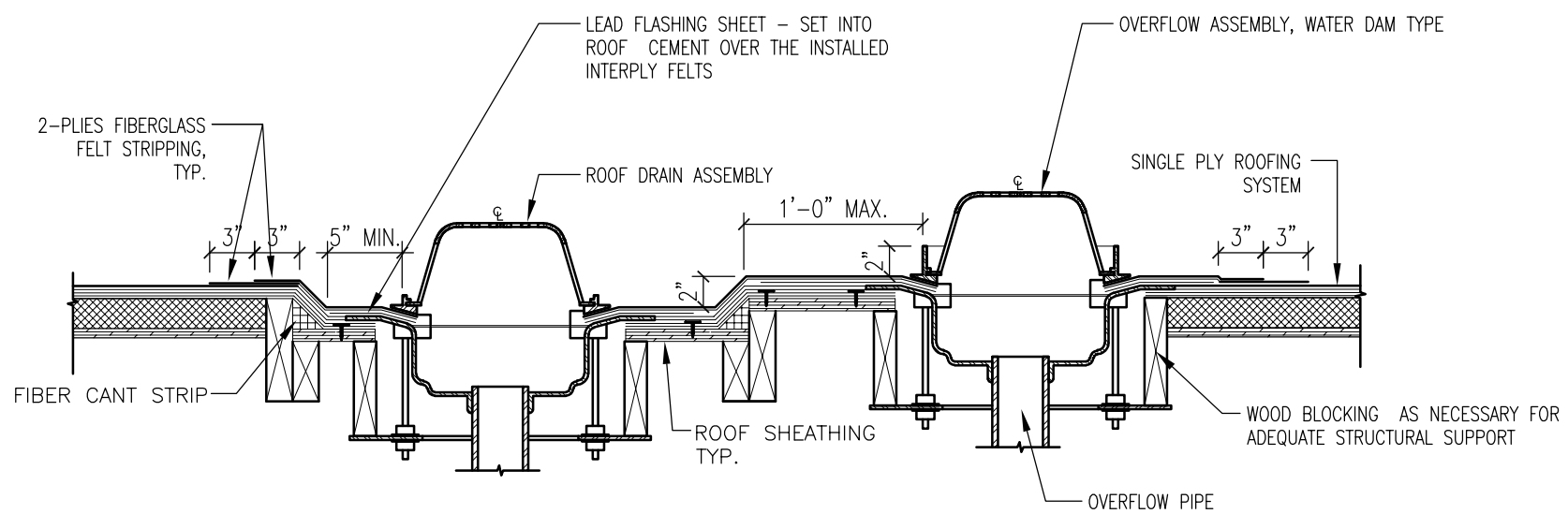


PENETRATION CLEARANCE N.T.S. 13

PARAPET DETAIL 1/2" = 1'-0" 9



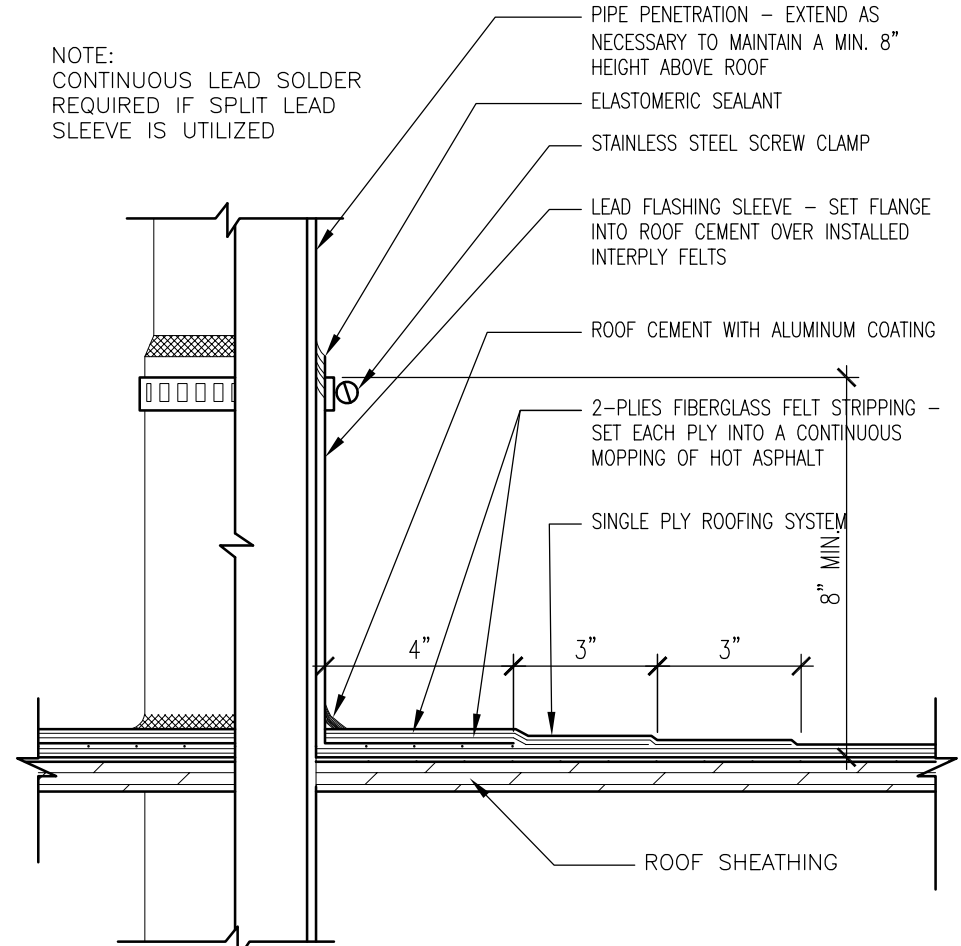
CANT STRIP &amp; FLASHING DETAIL 1/2" = 1'-0" 1



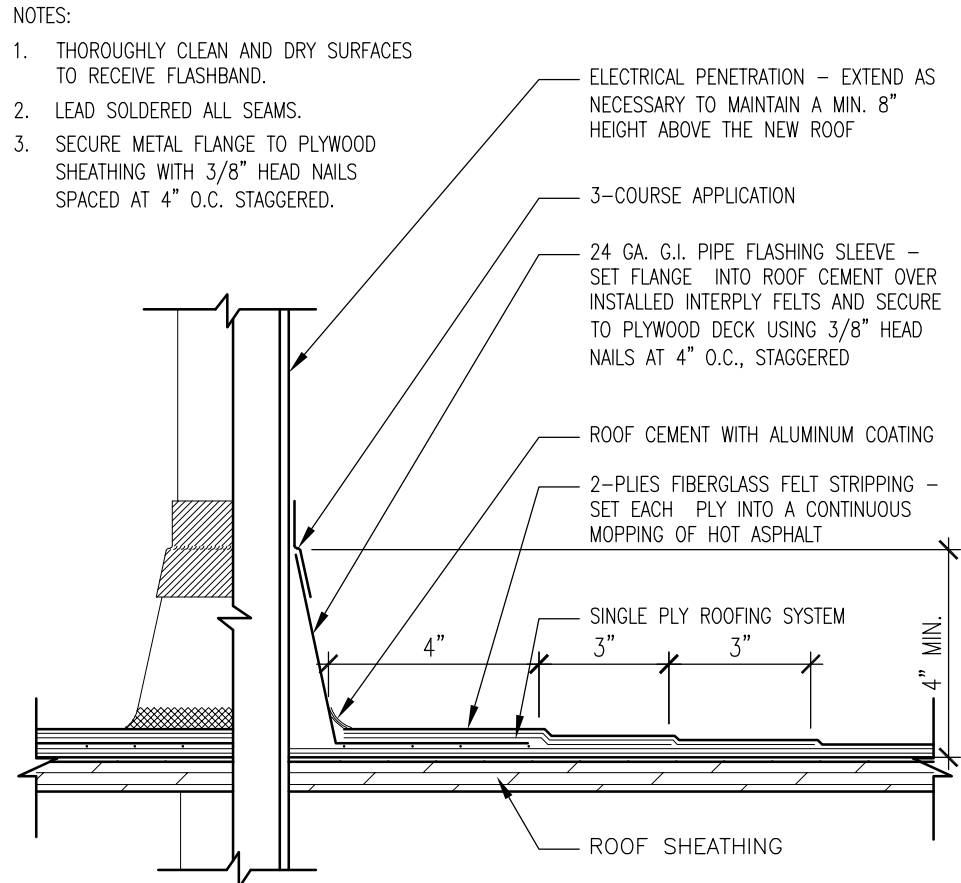
## NOTES:

1. STEEL CLAMPING RINGS REQUIRED ON ALL ROOF AND OVERFLOW DRAINS.
2. IF THE DRAIN SUMP IS RECESSED MORE THAN FOUR INCHES, PLYWOOD OR WOOD CANT STRIP SHALL BE INSTALLED TO MEET FLUSH WITH THE TOP OF THE SUMP. THE PLYWOOD CANT STRIP SHALL BE INSTALLED AT A 45 DEGREE ANGLE, WITH THE TOP AND BOTTOM EDGES MITERED TO FIT FLUSH WITH THE SUBSTRATE.
3. UPON COMPLETION OF ROOFING SYSTEM, INSPECT AND TEST ALL ROOF DRAINS TO ASSURE THAT NO CLOGGING OF DRAINAGE SYSTEM OCCURS. ROOF DRAIN LEADER DIAMETER SHALL BE TOTALLY CLEAR.
4. OVERFLOW DRAIN PIPE TO BE SAME SIZE AS PRIMARY DRAIN PIPE.

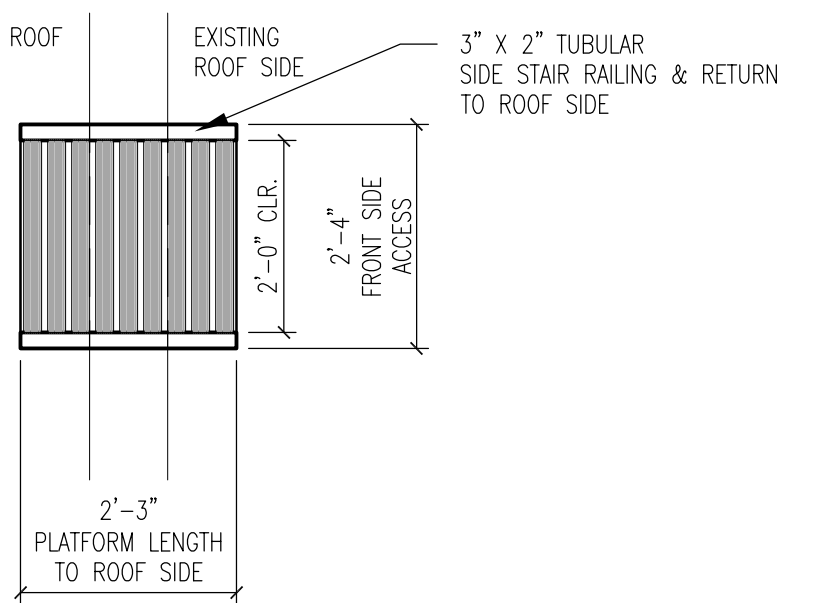
ROOF &amp; OVERFLOW DRAIN DETAIL N.T.S. 10



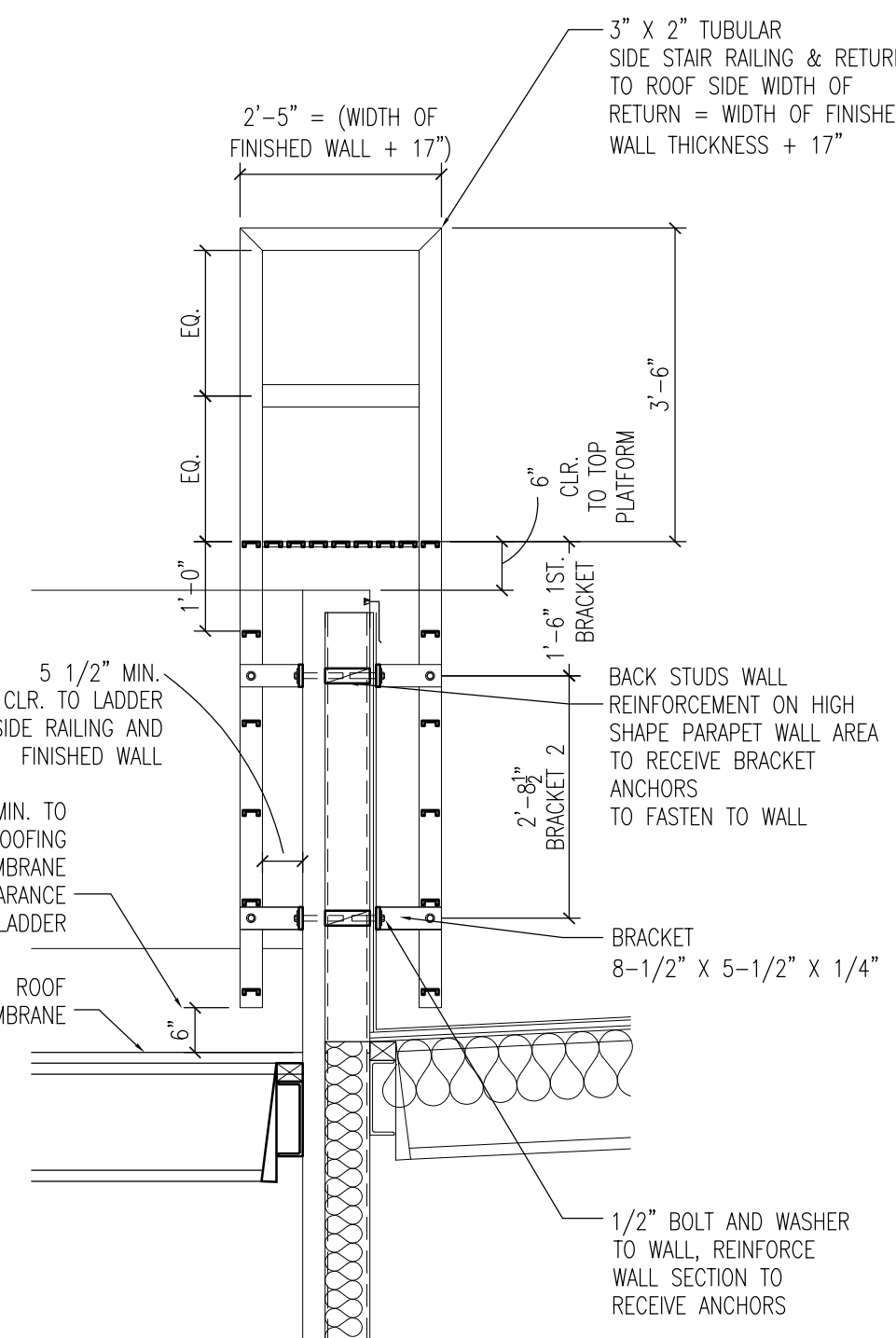
LEAD PIPE FLASHING - CLAMPED 1/2" = 1'-0" 6



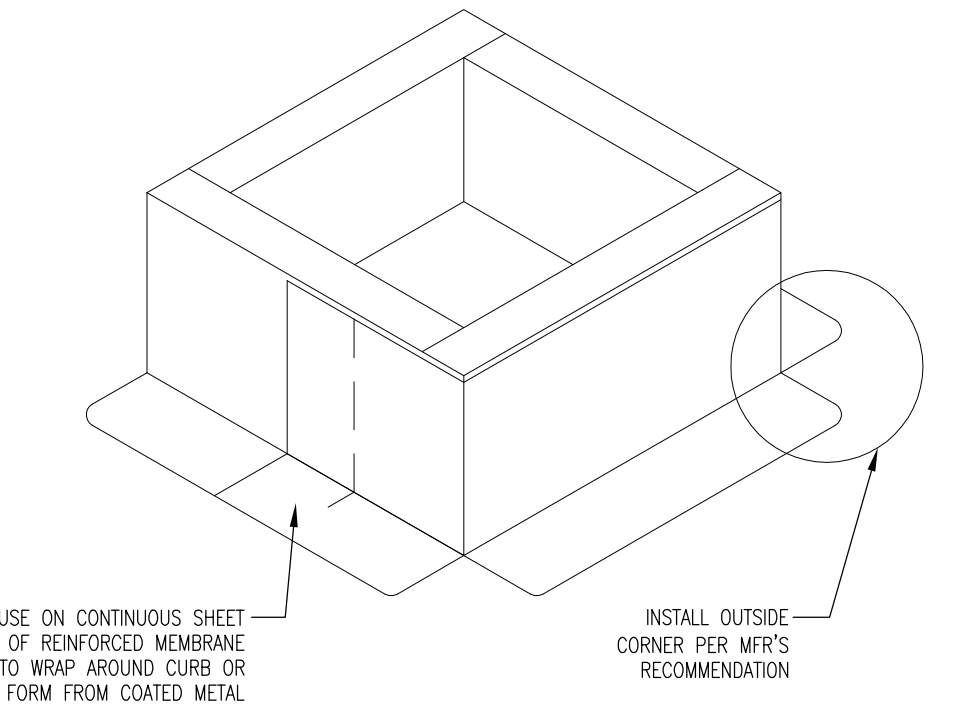
FLASHING AT ELECTRICAL PENETRATION 1/2" = 1'-0" 2



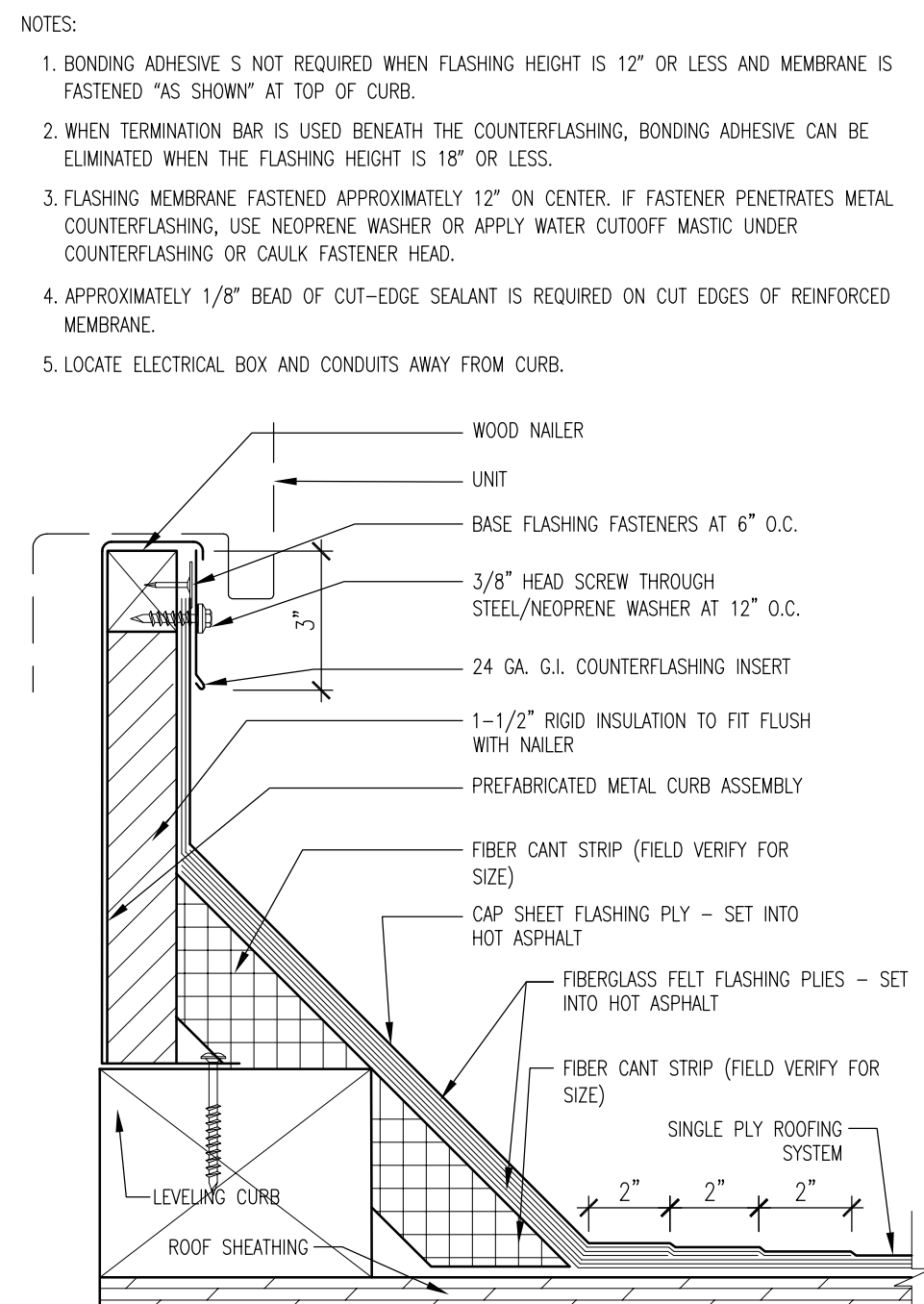
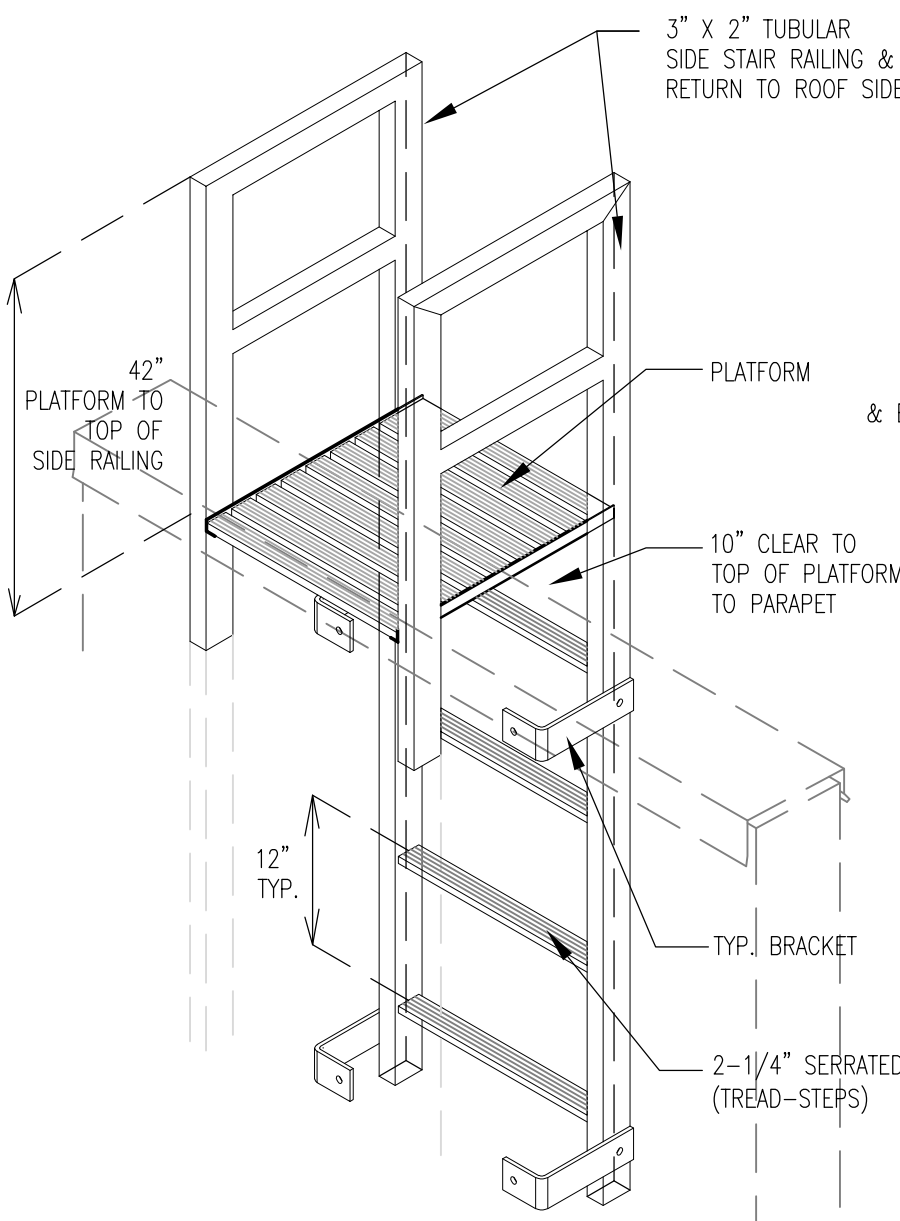
ISOMETRIC METAL LADDER N.T.S. 12



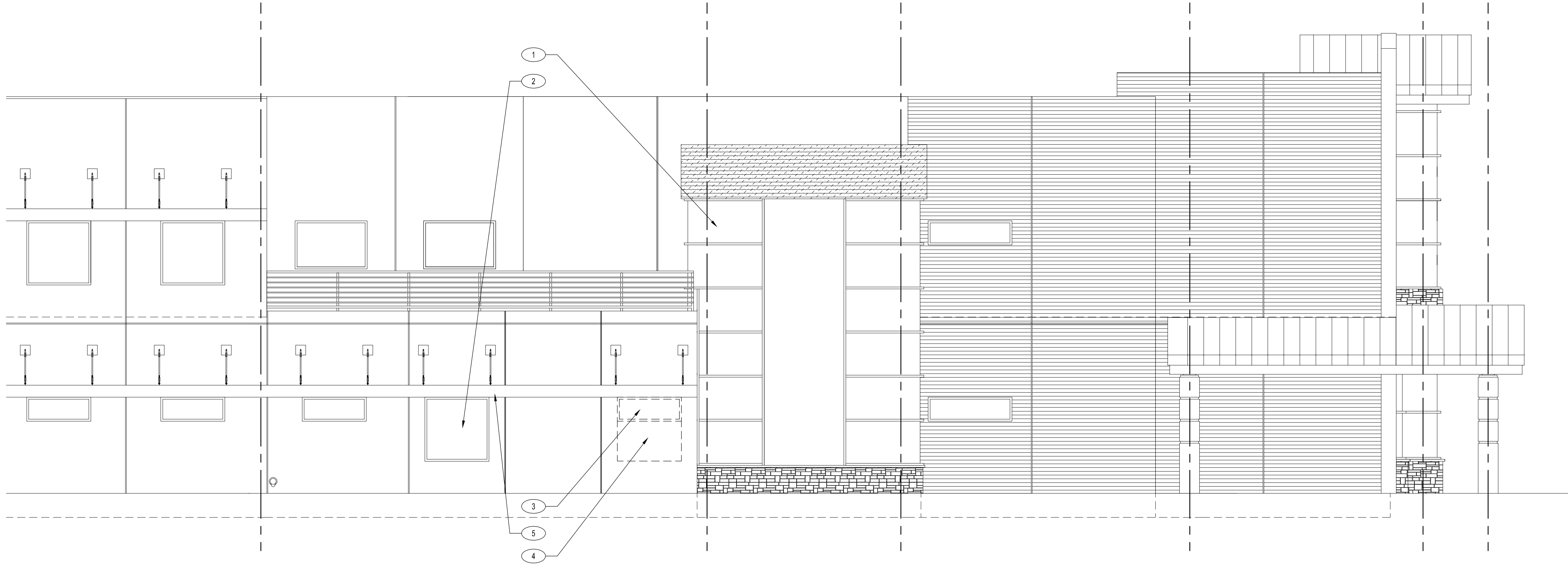
SECTION EXTERIOR METAL LADDER 1/2" = 1'-0" 8



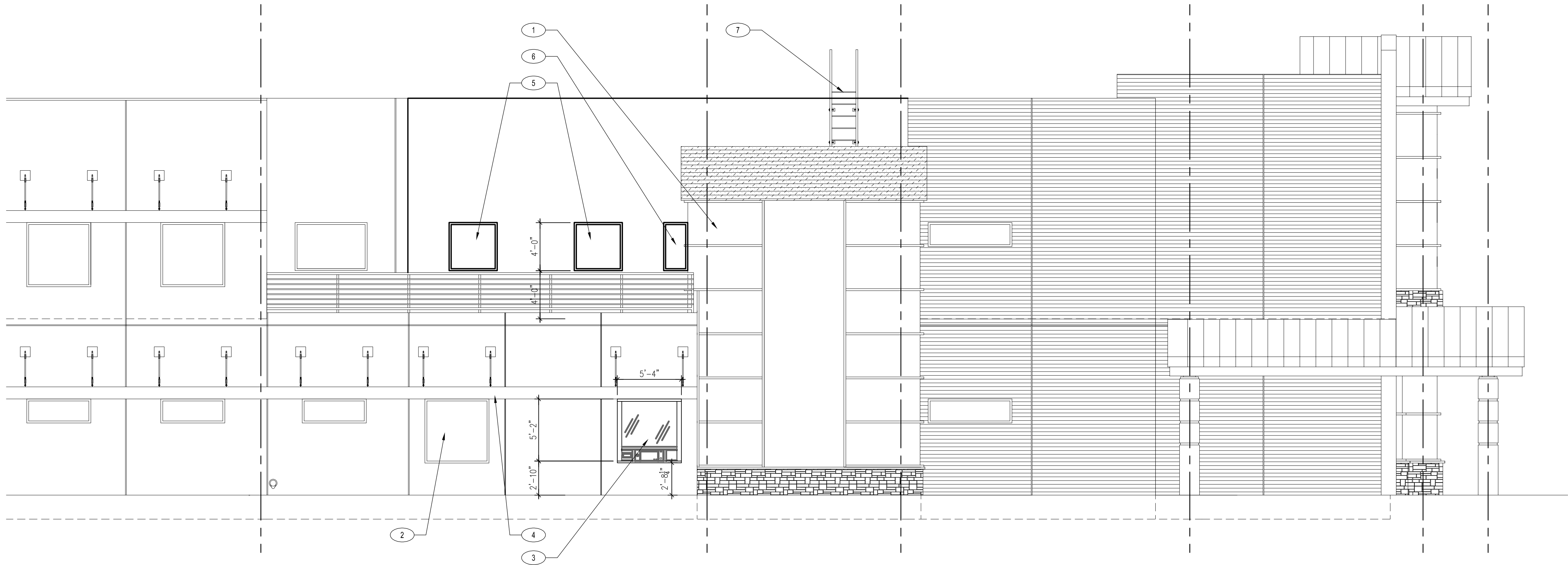
FLASHING AT PRE FABRICATED CURB 1/2" = 1'-0" 4







PARTIAL DEMOLITION SOUTH BUILDING ELEVATION | 3/16'-1'-0" 1



PARTIAL SOUTH BUILDING ELEVATION | 3/16'-1'-0" 2

# DEMO KEYED NOTES

1. EXISTING CURTAIN WALL SYSTEM.
2. EXISTING WINDOWS TO REMAIN.
3. EXISTING WINDOW TO BE REMOVE. STORE FOR RE-USE.
4. EXISTING WALL PANEL AND FRAME TO BE DEMOLISH FOR NEW WALK THROUGH WINDOW.
5. EXISTING METAL AWNING.

GENERAL NOTES

1. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
3. G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
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# NEW KEYED NOTES

1. EXISTING CURTAIN WALL SYSTEM.
2. EXISTING WINDOWS TO REMAIN.
3. NEW WALK THROUGH WINDOW. SEE WINDOW SCHEDULE ON SHEET A7.00.
4. EXISTING METAL AWNING.
5. RELOCATED WINDOW.
6. NEW WINDOW.
7. NEW TRANSFER ROOF LADDER. SEE 8&12/A4.30.

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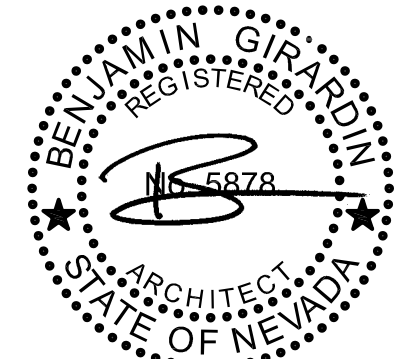
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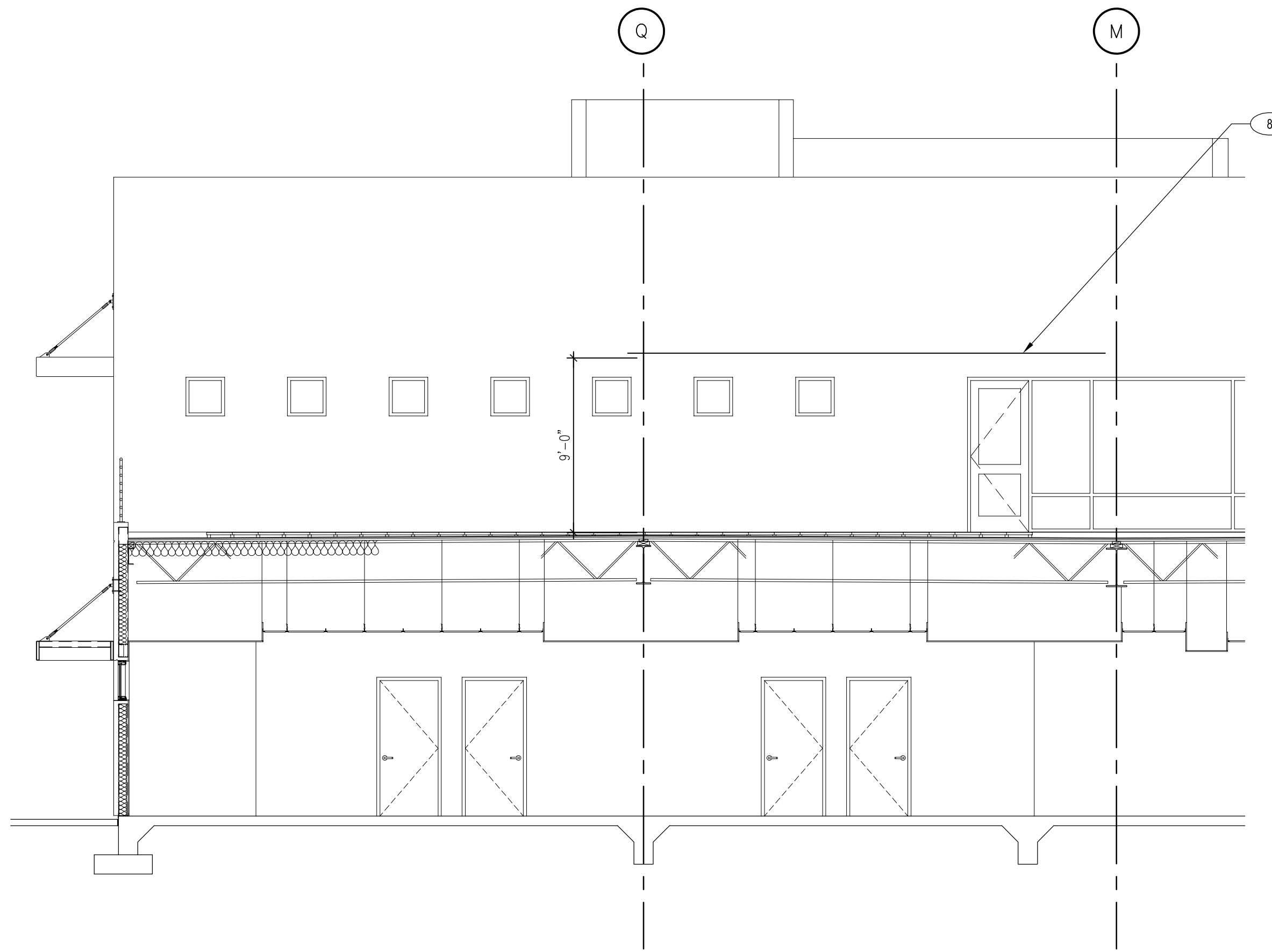
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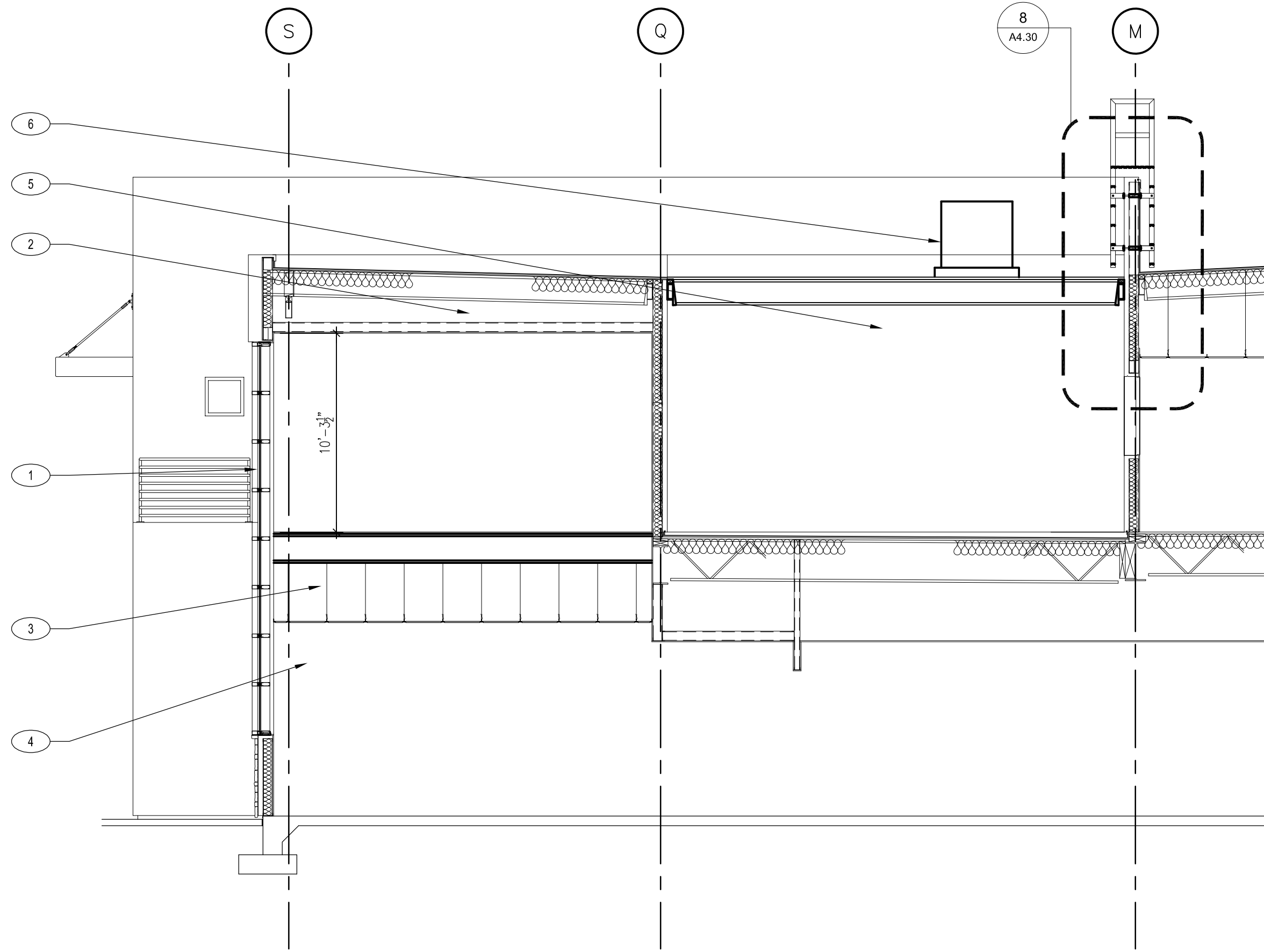
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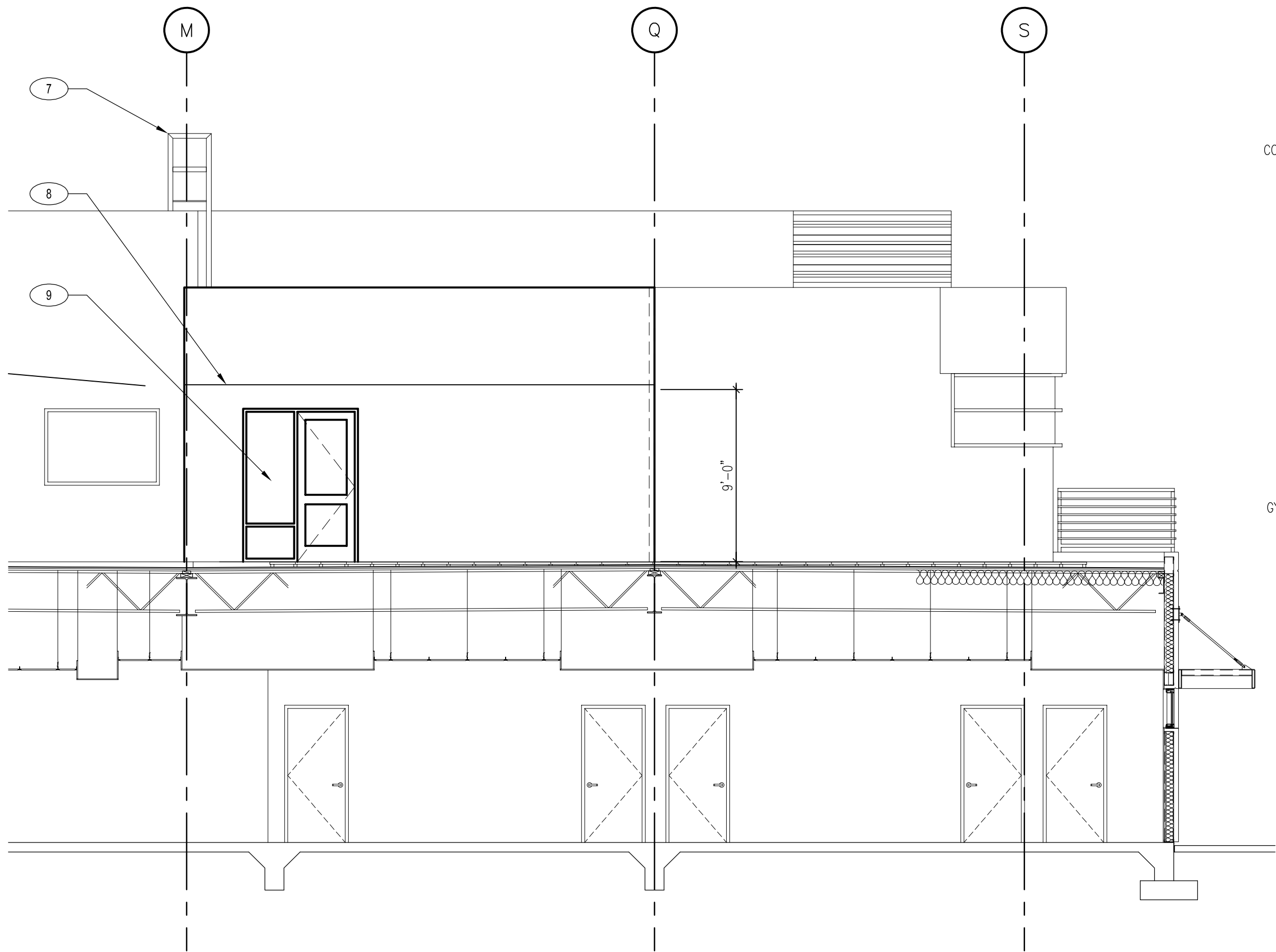




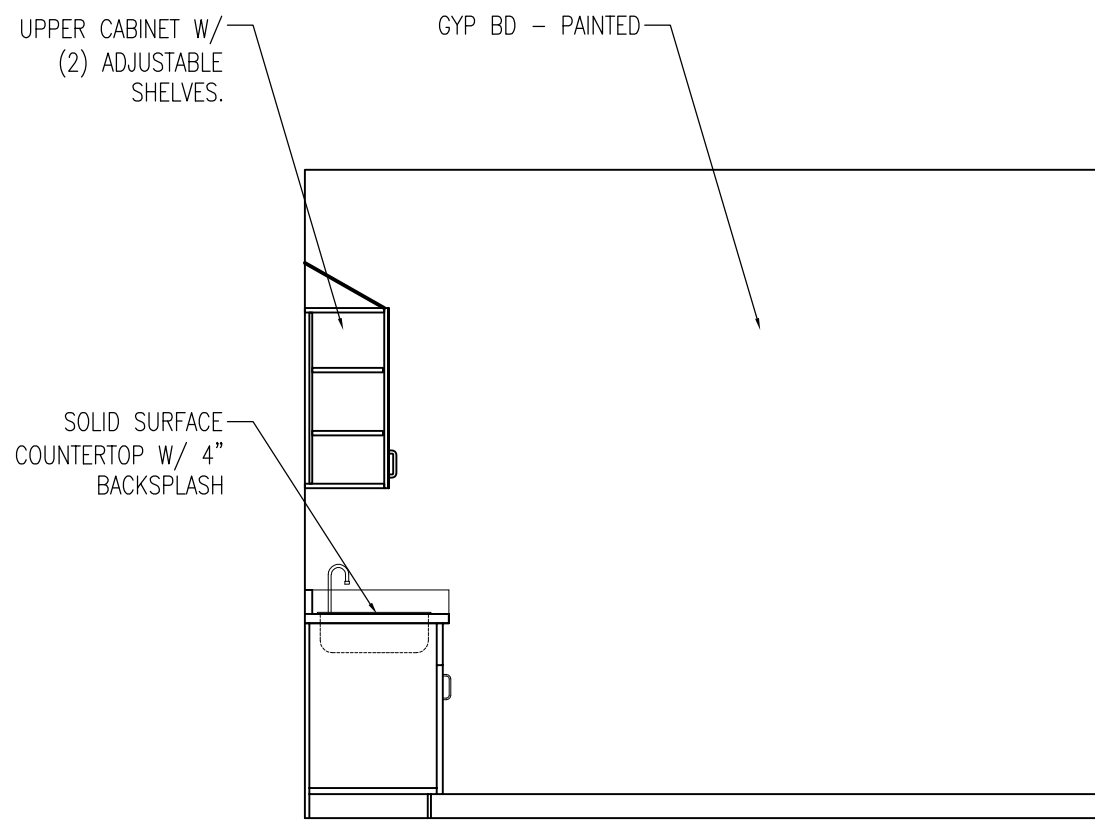
BUILDING SECTION  $5/16 \times 1'-0"$  2



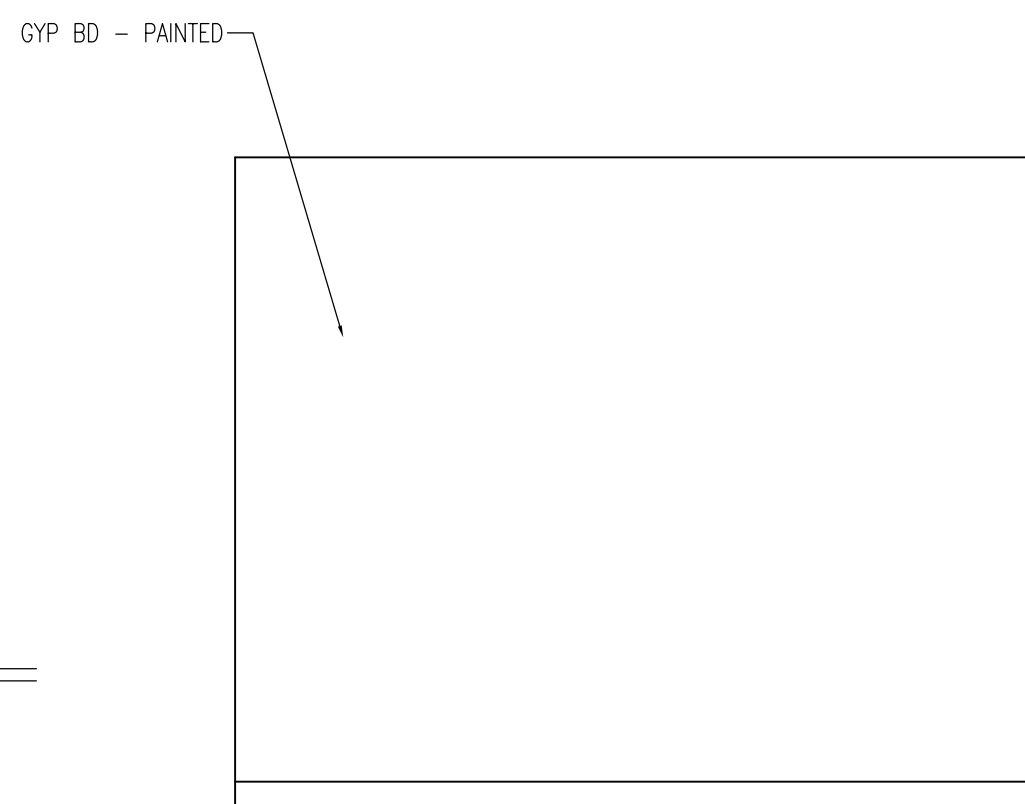
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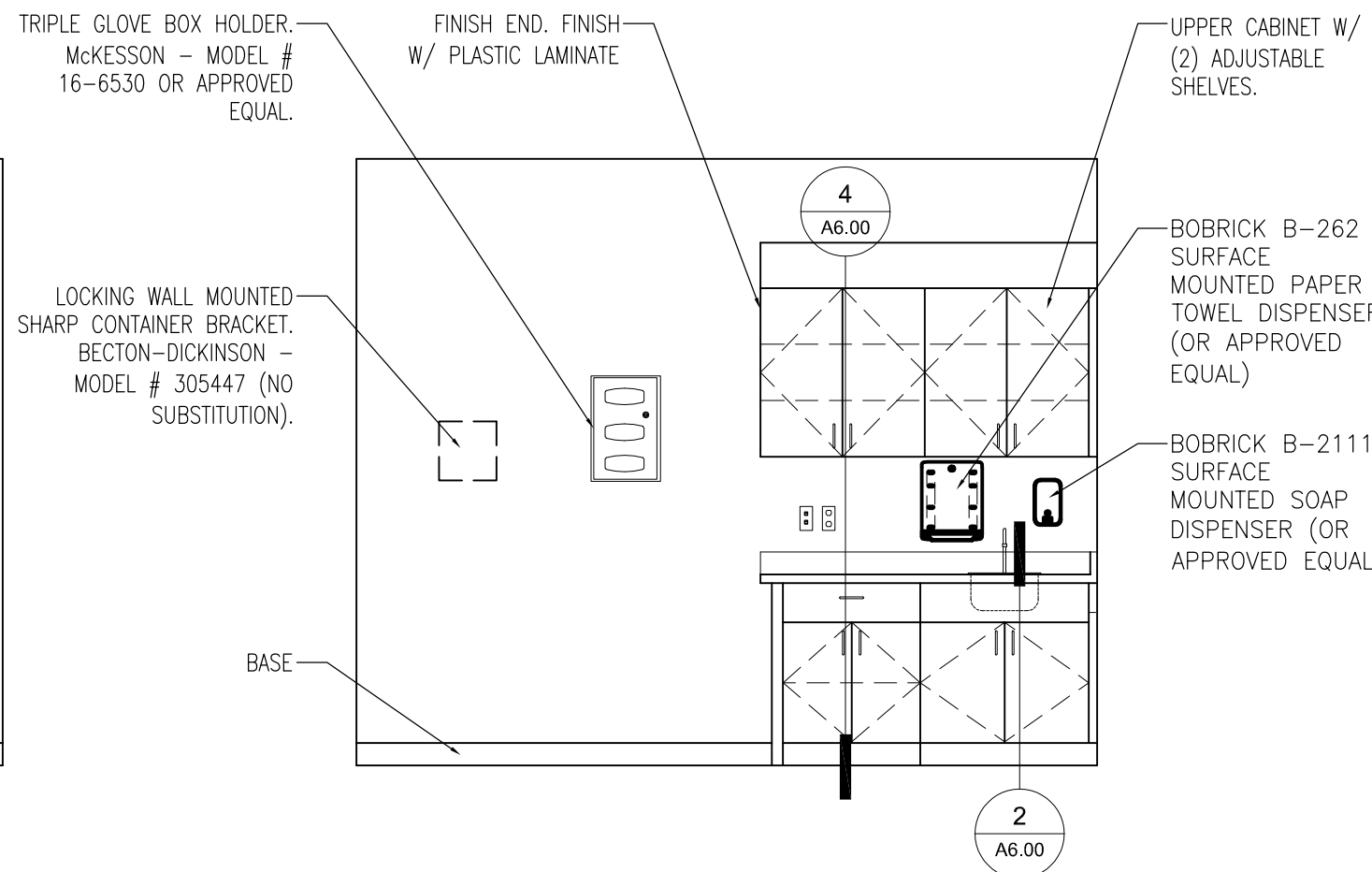
BUILDING SECTION  $3/16 \times 1'-0"$  3



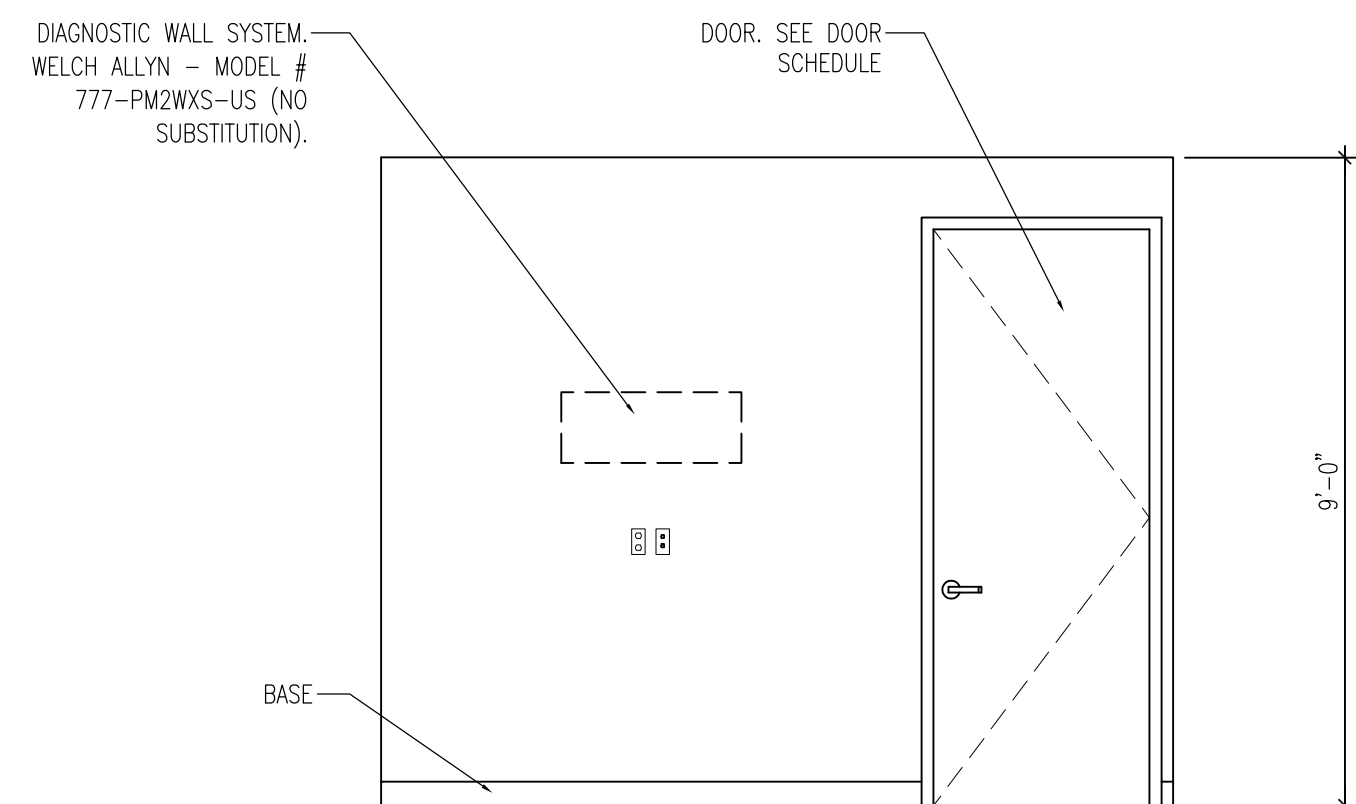
TYP. EXAM ROOM INTERIOR ELEVATION  $5/8 \times 1'-0"$  B



TYP. EXAM ROOM INTERIOR ELEVATION  $5/8 \times 1'-0"$  D



TYP. EXAM ROOM INTERIOR ELEVATION  $1/8 \times 1'-0"$  A



TYP. EXAM ROOM INTERIOR ELEVATION  $1/8 \times 1'-0"$  C

# BUILDING SECTION KEYED NOTES

1. EXISTING CURTAIN WALL SYSTEM.
2. EXISTING ROOFING.
3. FLOOR FRAMING. REFER TO STRUCTURAL DRAWINGS.
4. CEILING GRID AND TILES. SEE 1/A3.30
5. ROOF FRAMING. REFER TO STRUCTURAL DRAWINGS.
6. MECHANICAL UNIT. REFER TO MECHANICAL DRAWINGS.
7. TRANSFER METAL LADDER.
8. NEW SHADE FABRIC, USA SHADE OR APPROVE EQUAL. FOLLOW MANUFACTURER'S ATTACHMENT RECOMMENDATION.
9. ALUMINUM STOREFRONT DOOR AND WINDOW. SEE DOOR SCHEDULE.

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL FINISH CASEWORK DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION.
2. ALL CASEWORK SHALL CONFORM TO THE STANDARD SET BY THE ARCHITECTURAL WOODWORK INSTITUTE, SECTION 1600 "CUSTOM GRADE, REVEAL OVERLAY SYSTEM".
3. CALL DIMENSIONS ARE TO BE FINISH SURFACE UNLESS NOTED OTHERWISE.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONCEALED BACKING, BLOCKING, BRACES, ETC. FOR PROPER ANCHORING AND SUPPORTING OF ACCESSORIES AND CASEWORK - ALL UPPER CABINETS SHALL HAVE WALL BACKING SUPPORT PER DETAIL A8.00 AT TOP AND BOTTOM OF CABINET - FULL LENGTH.
5. SHOP DRAWINGS FOR CASEWORK SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
6. EXPOSED CORNERS OF ALL COUNTERTOPS SHALL HAVE A 2" RADIUS UNLESS NOTED OTHERWISE.
7. FINISH ALL EXPOSED AREAS OF CASEWORK WITH PLASTIC LAMINATE (STYLE AND COLOR SELECTED BY OWNER), UNLESS NOTED OTHERWISE.
8. GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WALL FIRE RATINGS WHERE ACCESSORIES ARE RECESSED.
9. ALL BASE CABINETS SHALL BE 24" DEEP - ALL UPPER CABINETS SHALL BE 14" DEEP - TYPICAL, UNLESS NOTED OTHERWISE.
10. ALL OUTLET/SWITCHES - REFER TO ELECTRICAL PLANS.

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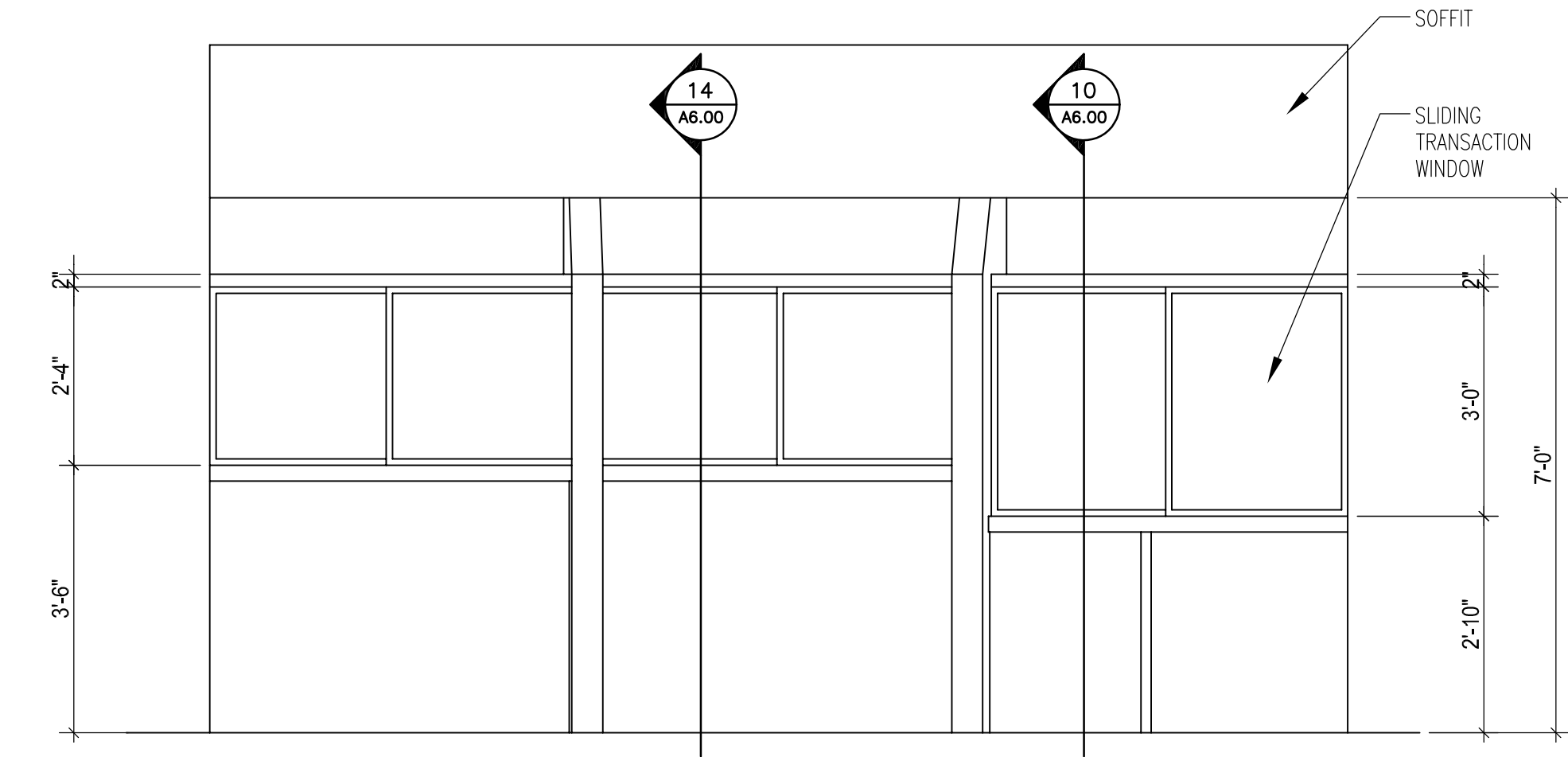
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Interior Elevations

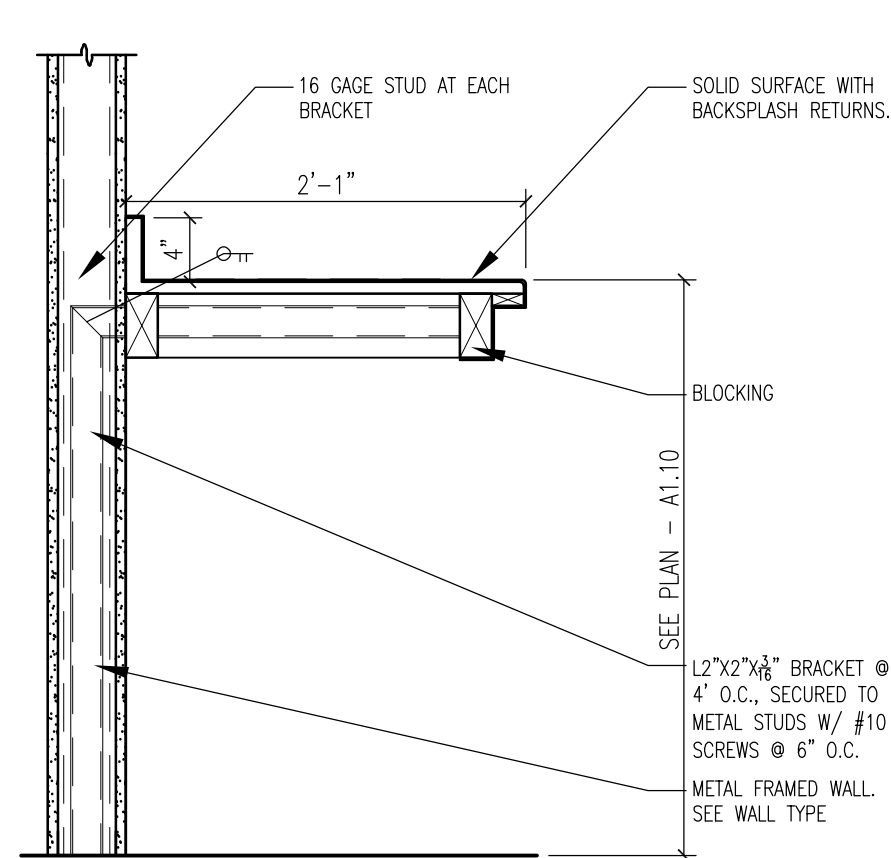
SHEET NUMBER

A5.10

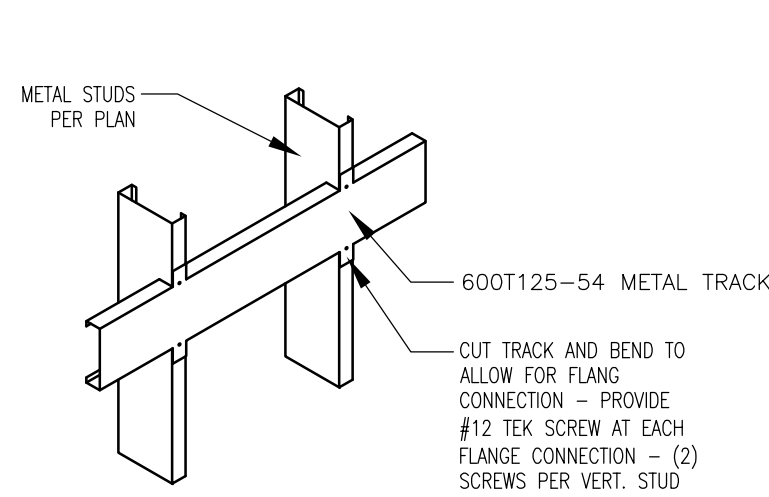




PHARMACY CASEWORK ELEVATION | 1/2"=1'-0" (9)



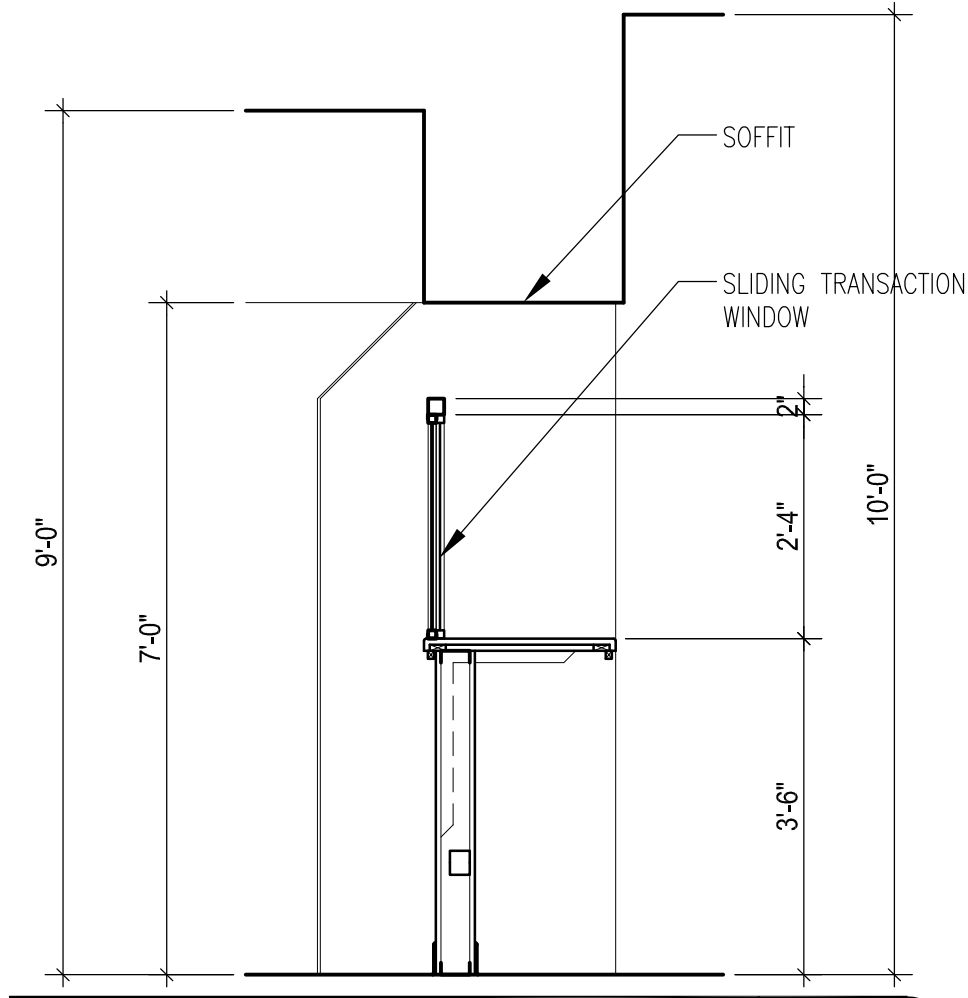
CASEWORK DETAIL | 1"=1'-0" (5)



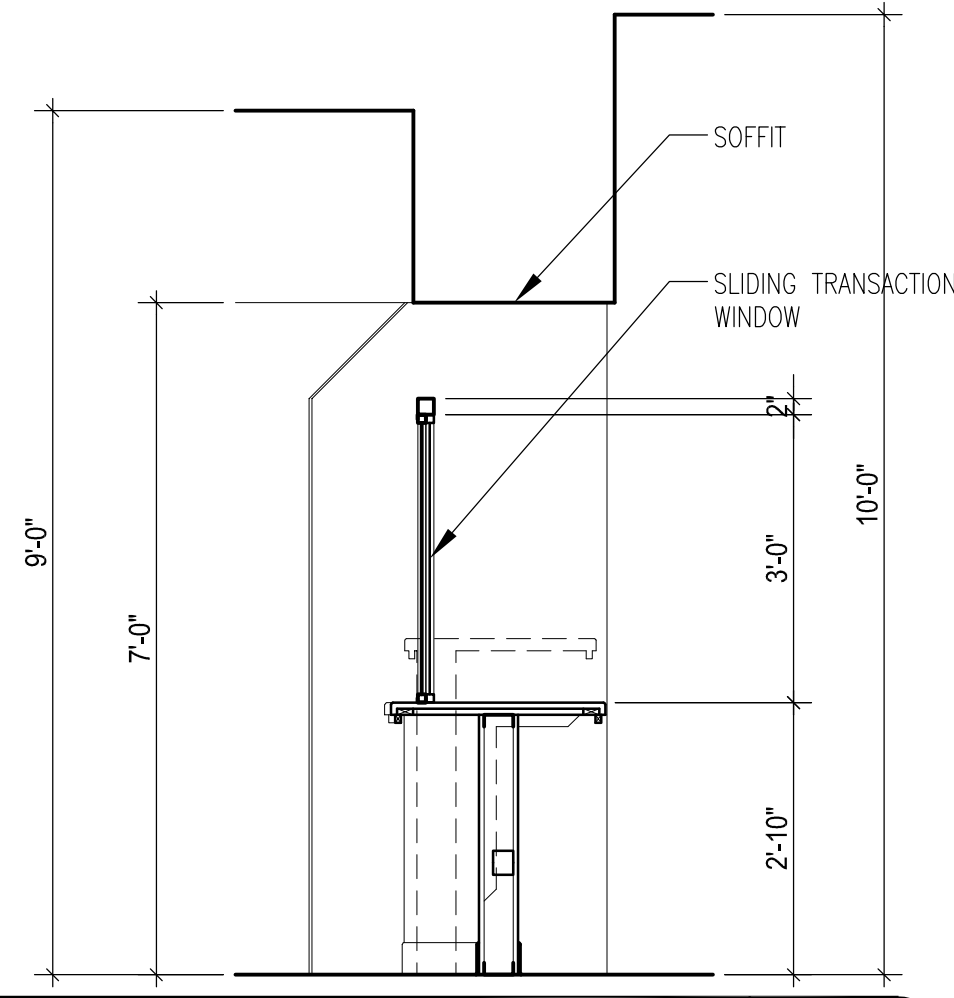
NOTES:

1. EXTEND BLOCKING ONE BAY BEYOND POINT OF ATTACHMENT - THIS DETAIL FOR STAND WEIGHT MOUNTING (50#).
2. 6" X 14 GA. STRAP MAY BE USED AS AN ALTERNATE FOR THE 600T125-54 METAL TRACK AT GRAB BARS AND 6" X 16 GA. STRAP AT EQUIPMENT AND CABINETS.

METAL STUD BACKING DETAIL | N.T.S. (1)



PHARMACY CASEWORK SECTION | 1/2"=1'-0" (14)

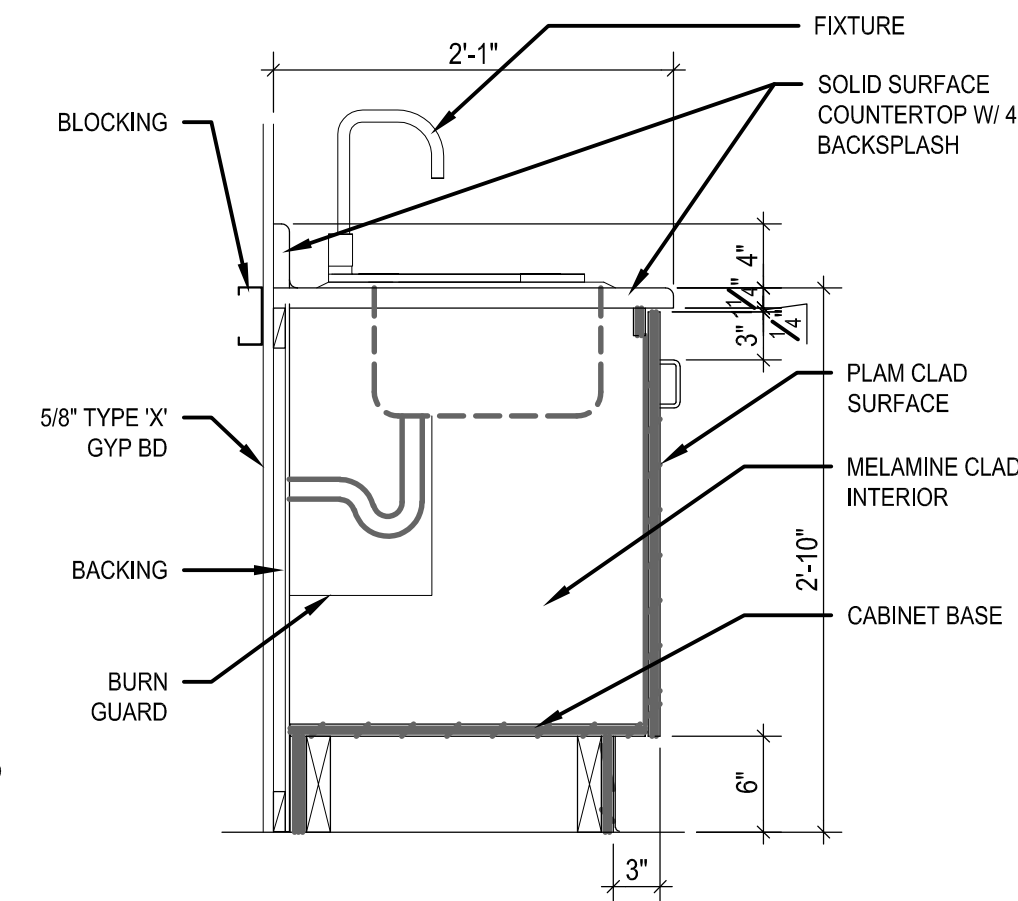


PHARMACY CASEWORK ADA SECTION | 1/2"=1'-0" (10)

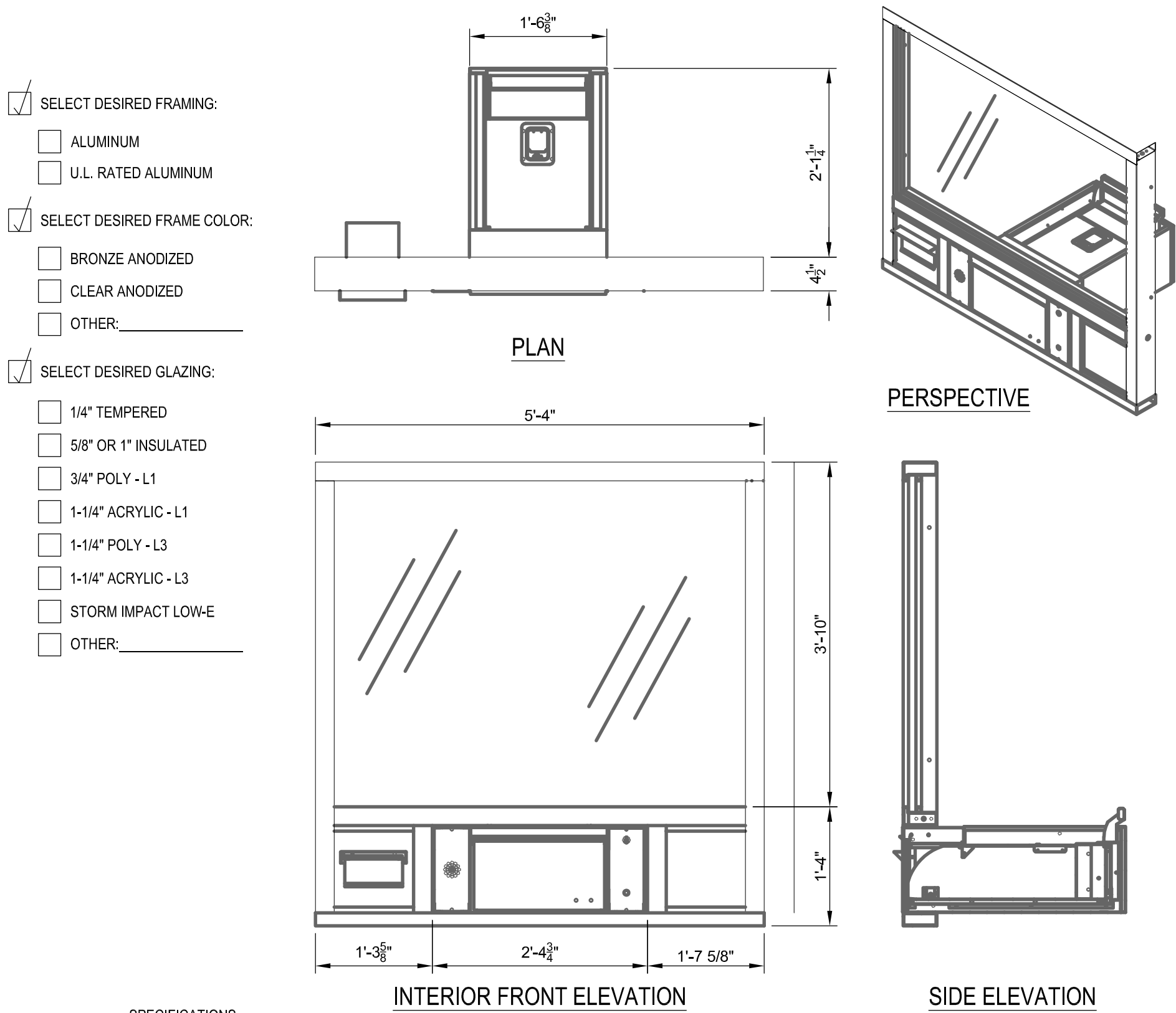
MILLWORK GENERAL NOTES

- ALL BASE CABINET CONSTRUCTION TO MEET AWI CUSTOM STANDARDS.
- ALL EXPOSED SURFACES OF BASE CABINETS AND DRAWER FINISHES TO BE PLASTIC LAMINATE CLAD U.O.N. REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION.
- ALL INTERIORS OF CABINETS ARE TO BE PLYWOOD CORE WHITE MELAMINE.
- DRAWER BOXES TO BE PLYWOOD CORE WHITE MELAMINE WITH KV 8400 MEDIUM DUTY FULL EXTENSION BOX SLIDES, OR EQUAL.
- PROVIDE 2" DIA. GROMMETS PER SINGLE RUN OF MILLWORK COUNTERTOP AT 30" HIGH COUNTERTOPS. COORDINATE EXACT QUANTITY & LOCATIONS WITH TENANT PRIOR TO INSTALLATION.
- PROVIDE BLOCKING IN WALL AS NECESSARY FOR ALL WALL HUNG CABINETS & COUNTERS. REFER TO ELEVATIONS FOR LOCATION OF WALL HUNG AND COUNTERTOP BRACKETS.
- CAULK WHERE COUNTERTOPS AND BACKSPLASH INTERSECT WITH WALL. CAULK TO MATCH COLOR OF COUNTERTOPS. GC TO SUBMIT COLOR(S) TO ARCHITECT FOR APPROVAL PRIOR TO APPLICATION.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ARCHITECT OF RECORD PRIOR TO FABRICATION AND INSTALLATION.
- PROVIDE CONCEALED HINGES FOR ALL CABINET DOORS.
- ALL OUTSIDE CORNERS OF WORK SURFACES TO HAVE RADIUS EDGE, U.O.N.
- ALL UPPER & LOWER CABINET FACES TO HAVE BEVELED EDGE.

\* REFER TO SHEET A0.31 FOR FINISH SCHEDULE.



TYPICAL SINK SECTION | 1"=1'-0" (2)

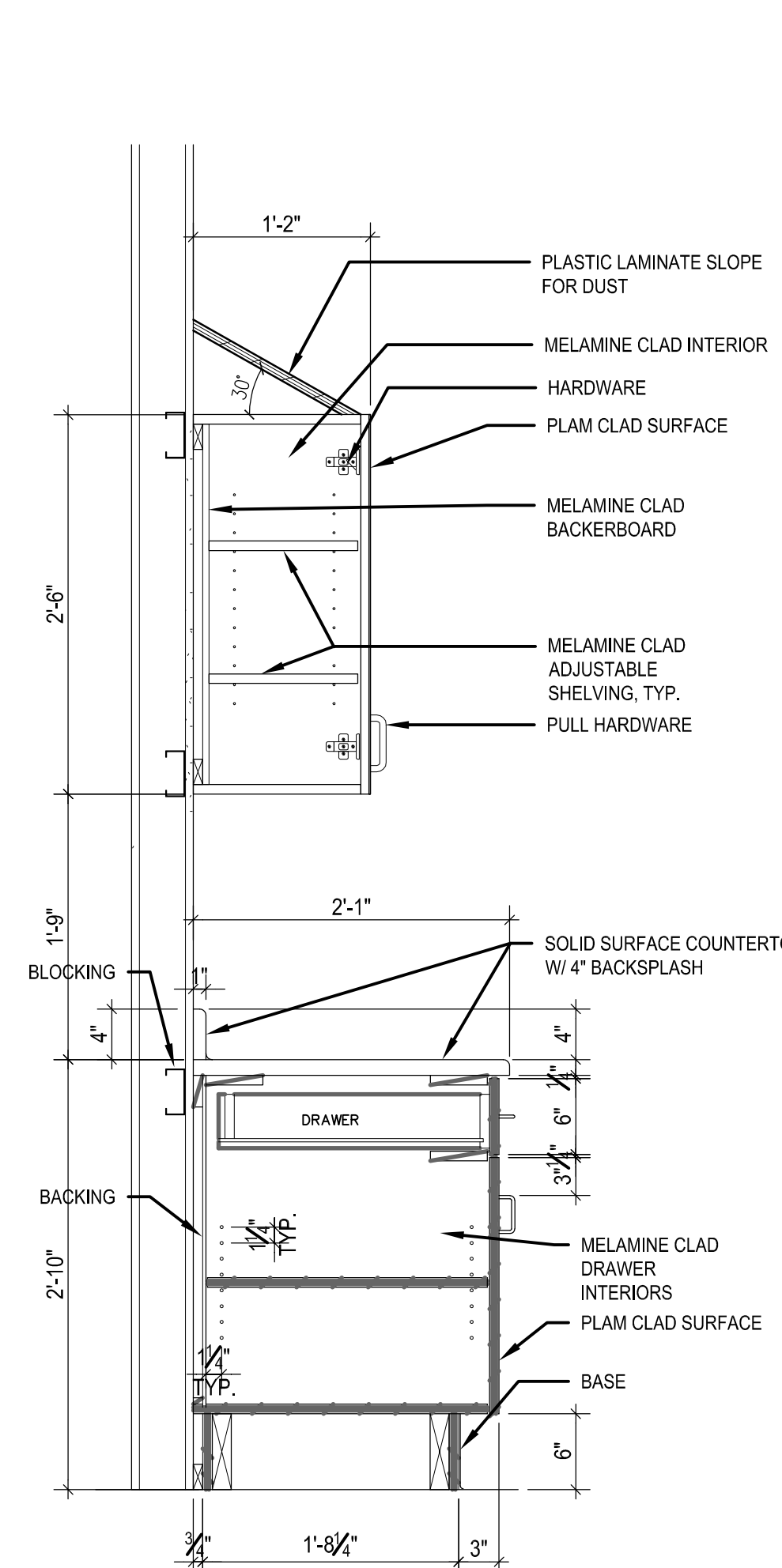


SPECIFICATIONS  
ACTUAL DIMENSIONS: 60" W X 53 1/2" H  
ROUGH OPENING: 60 3/8" W X 53 7/8" H

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

TRANSFER DRAWER DETAIL | N.T.S. (8)



BASE/WALL CABINET CASEWORK DETAIL | 1"=1'-0" (4)

CLIENT



[T]  
[F]

ARCHITECT



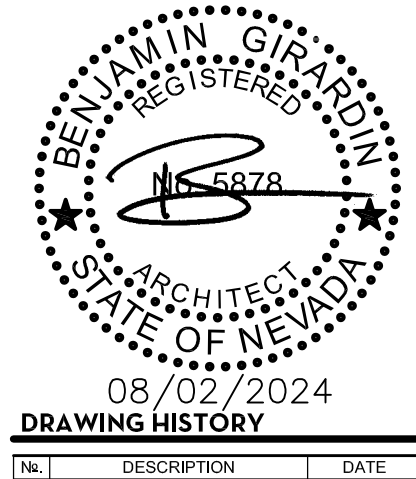
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

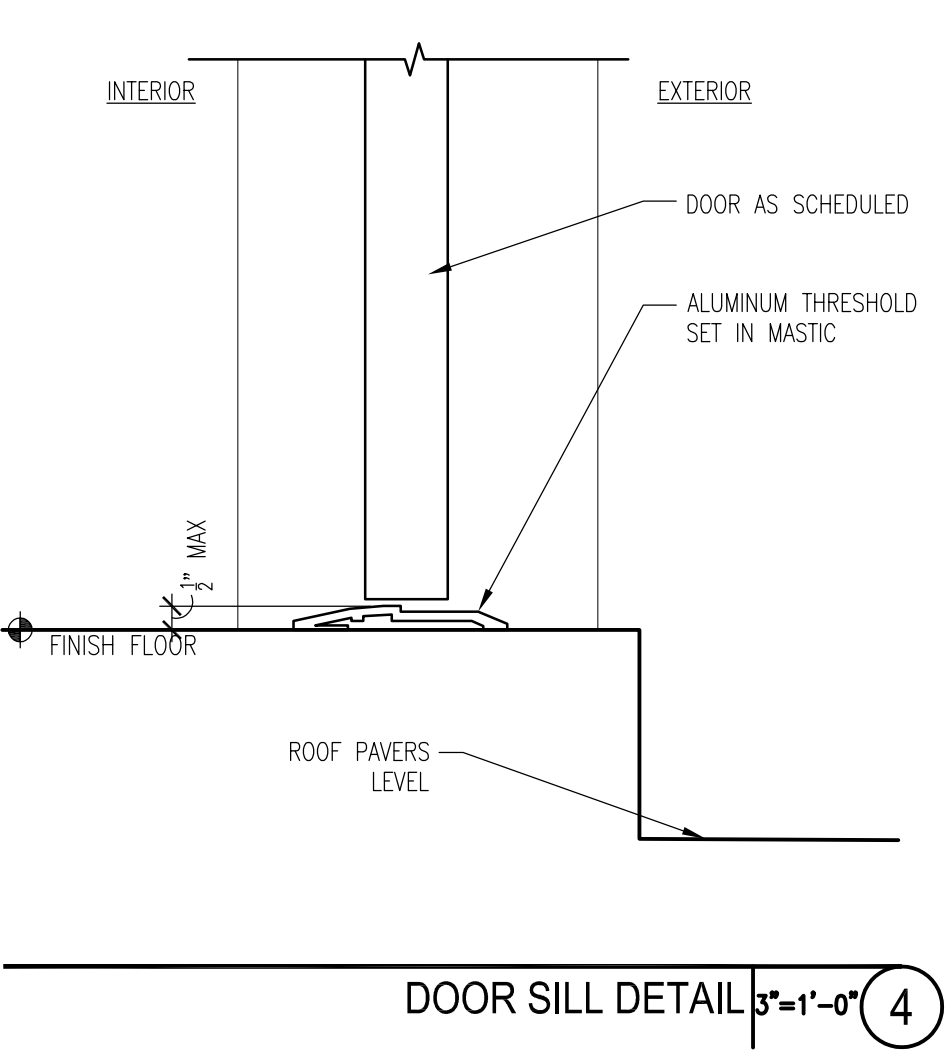
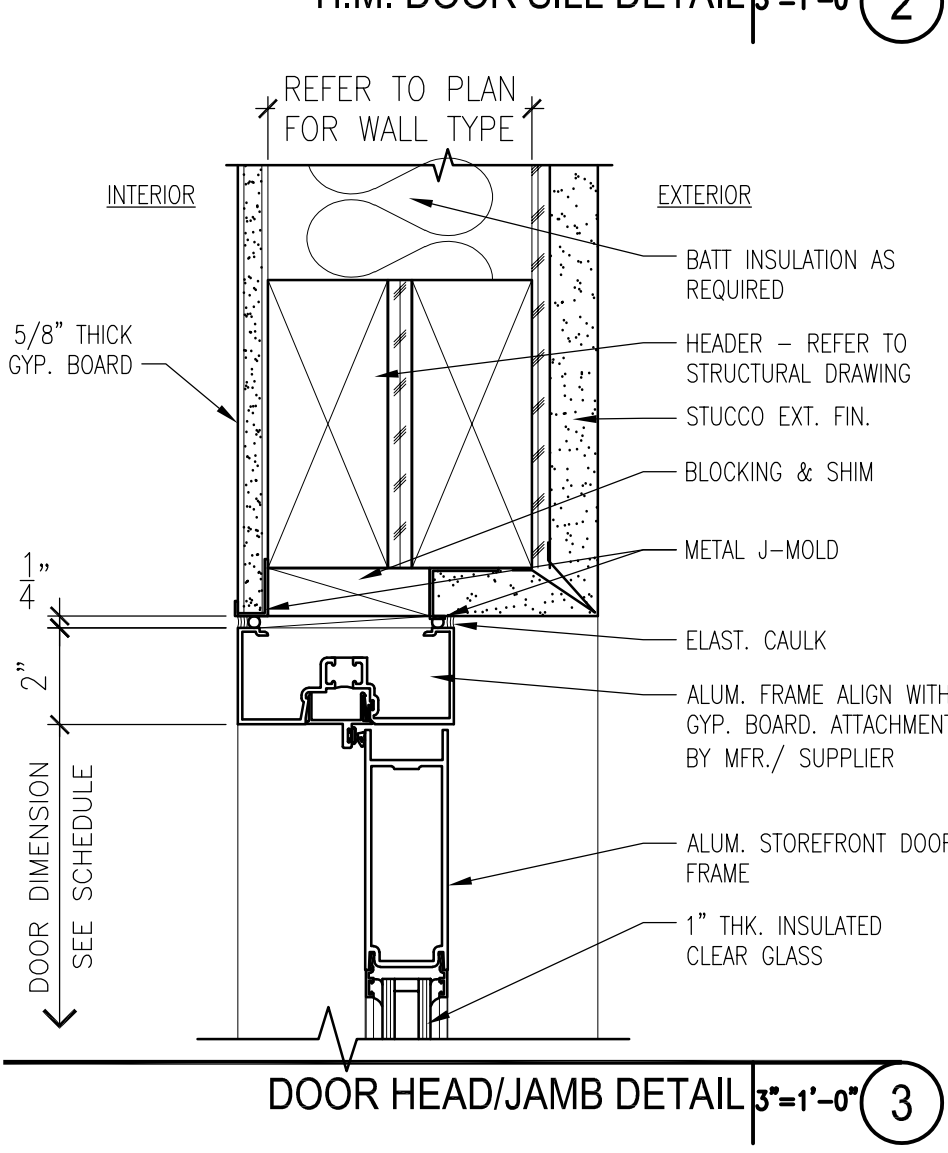
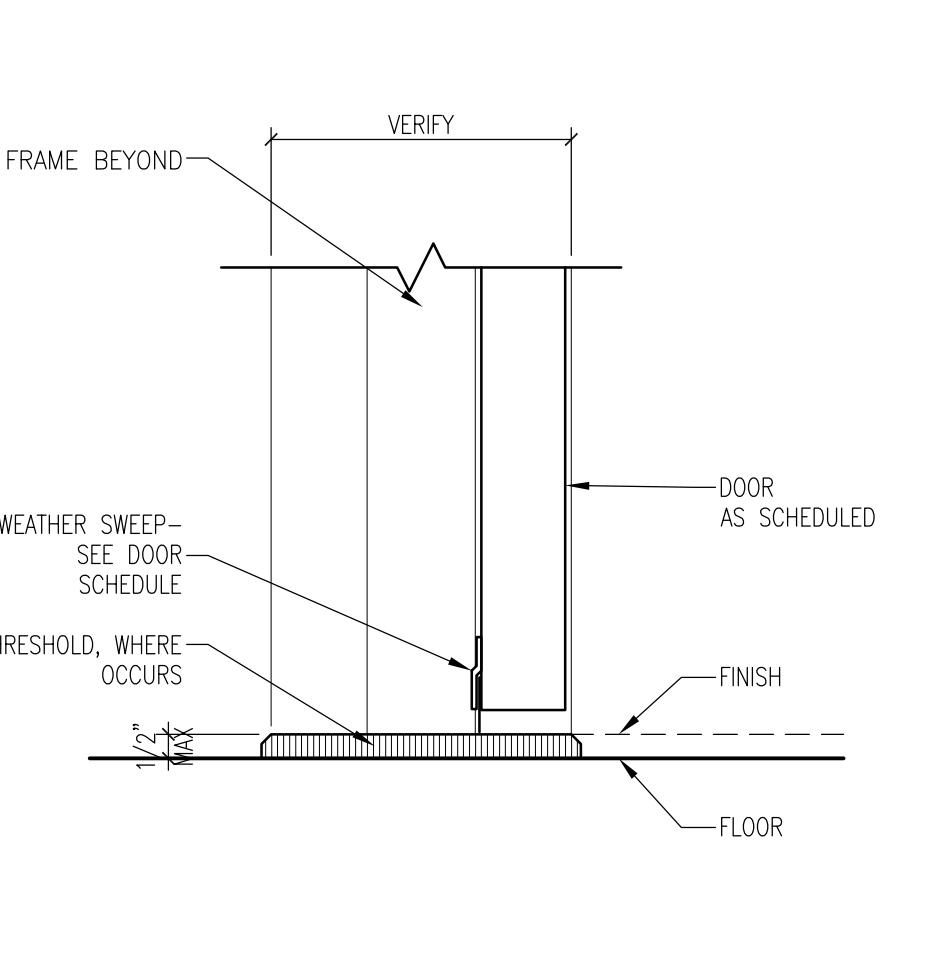
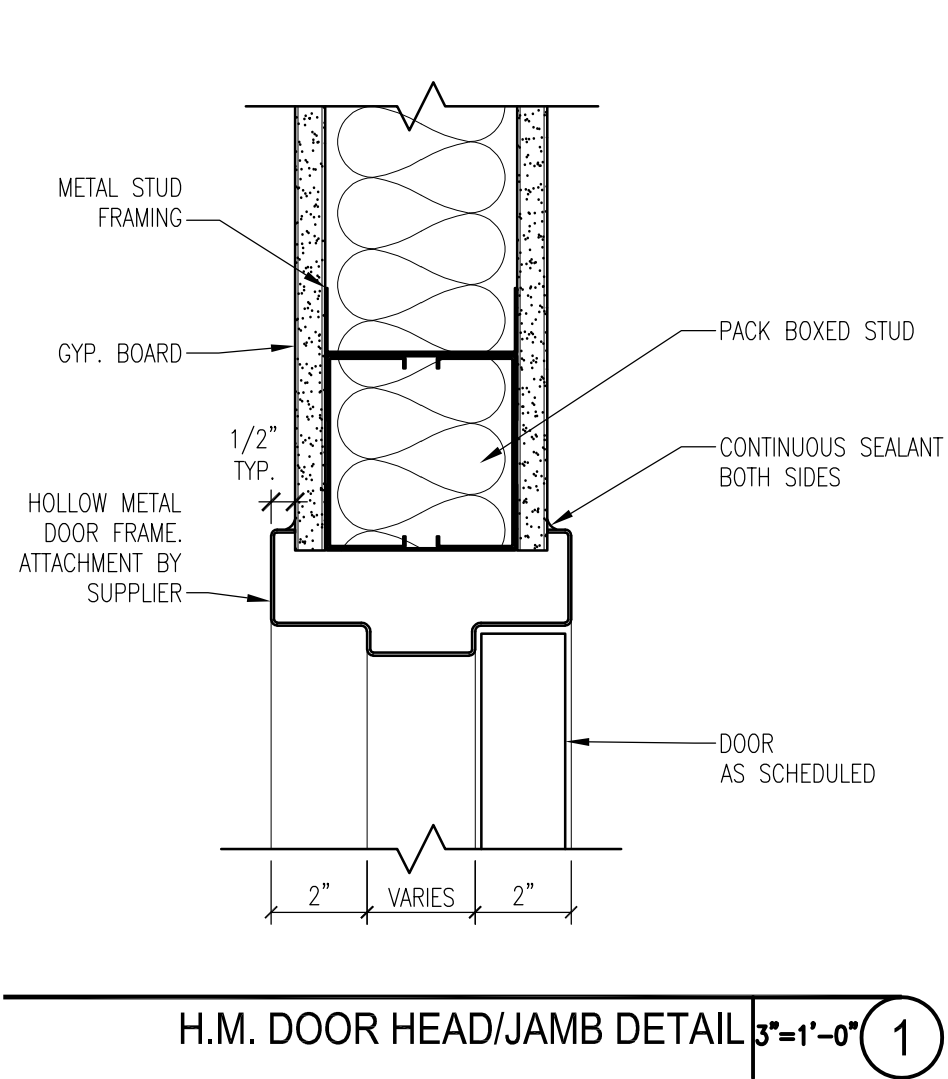
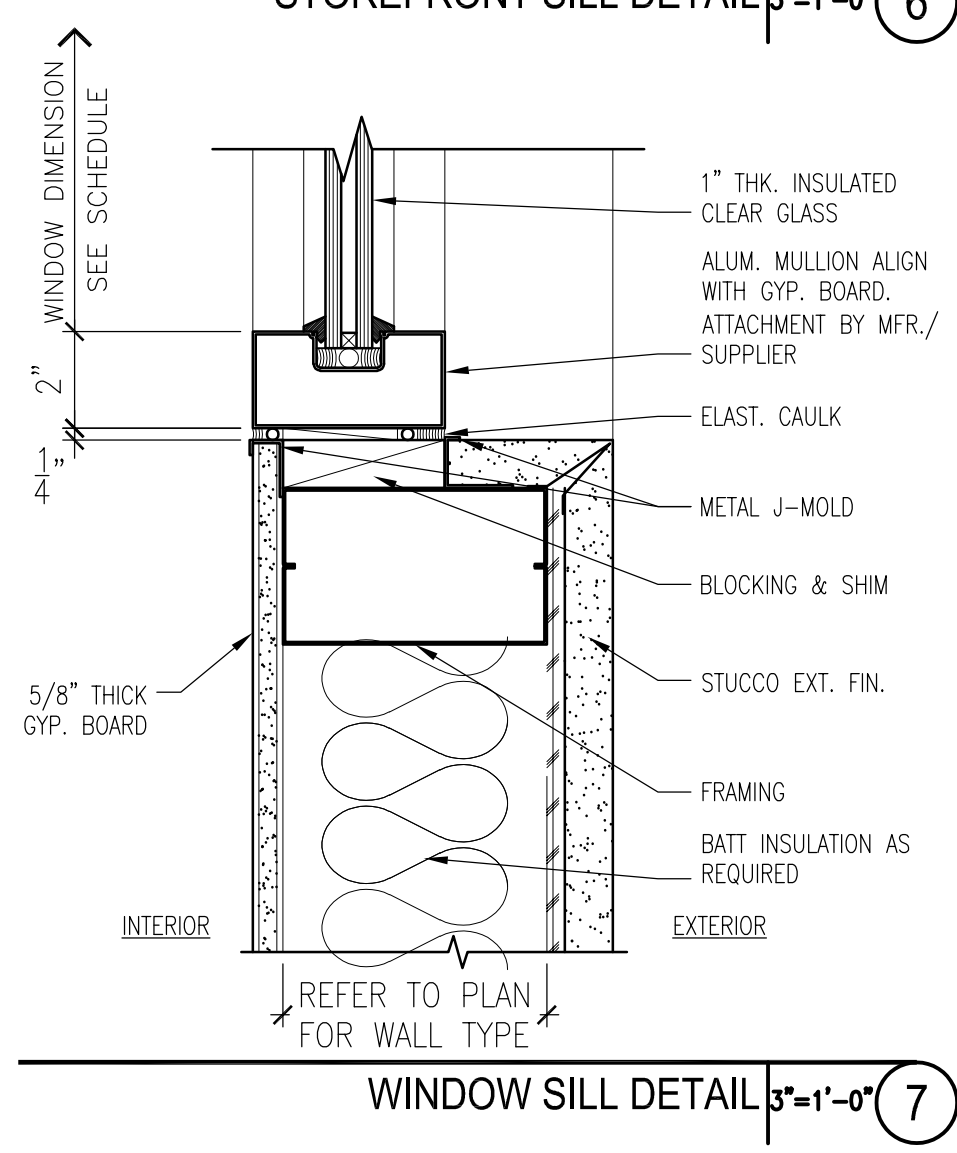
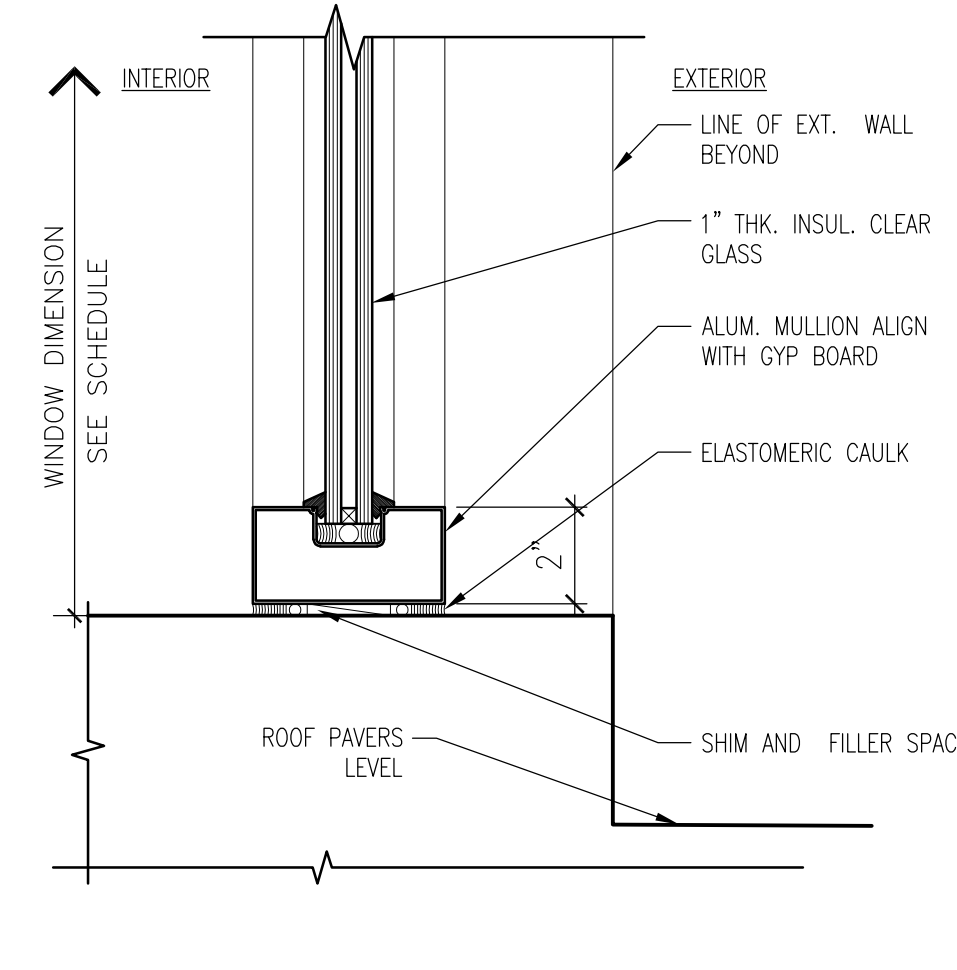
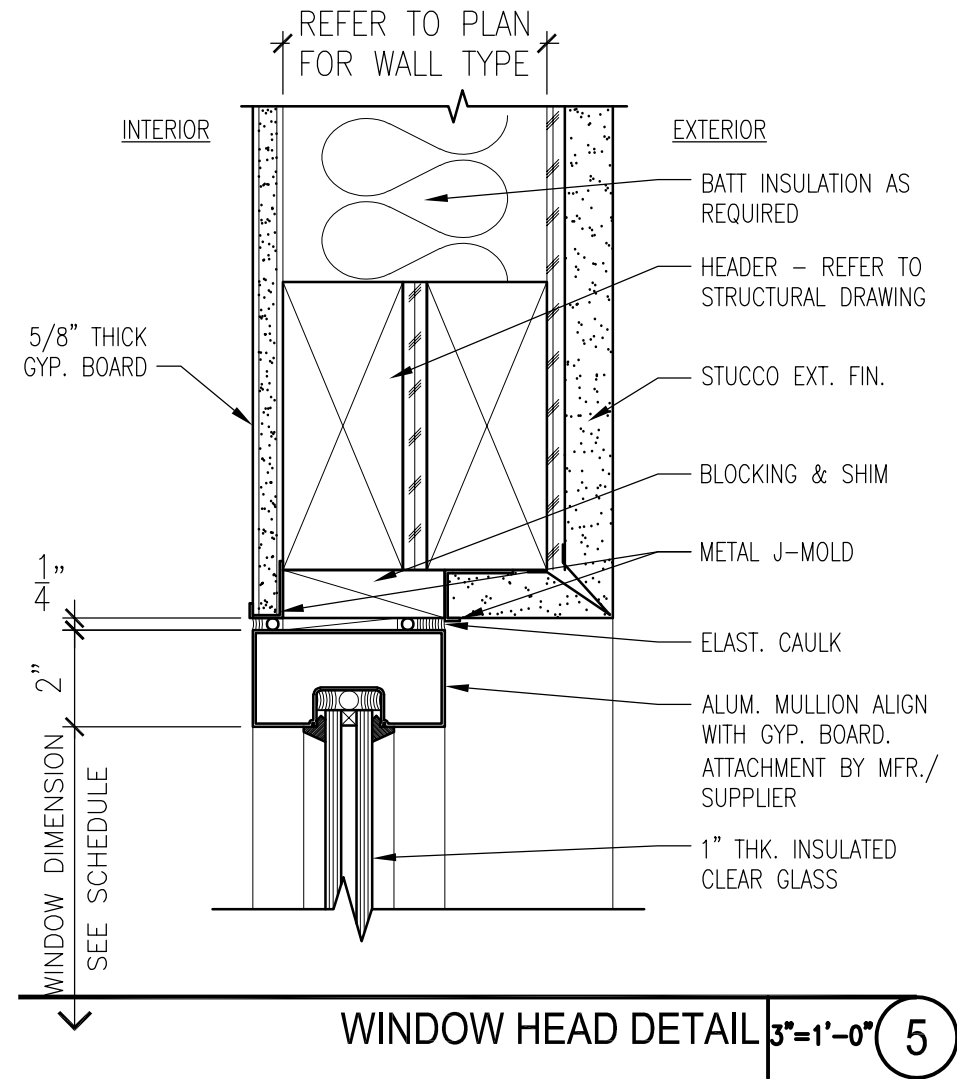
SHEET TITLE

Millwork Details

SHEET NUMBER

A6.00





## DOOR GENERAL NOTES

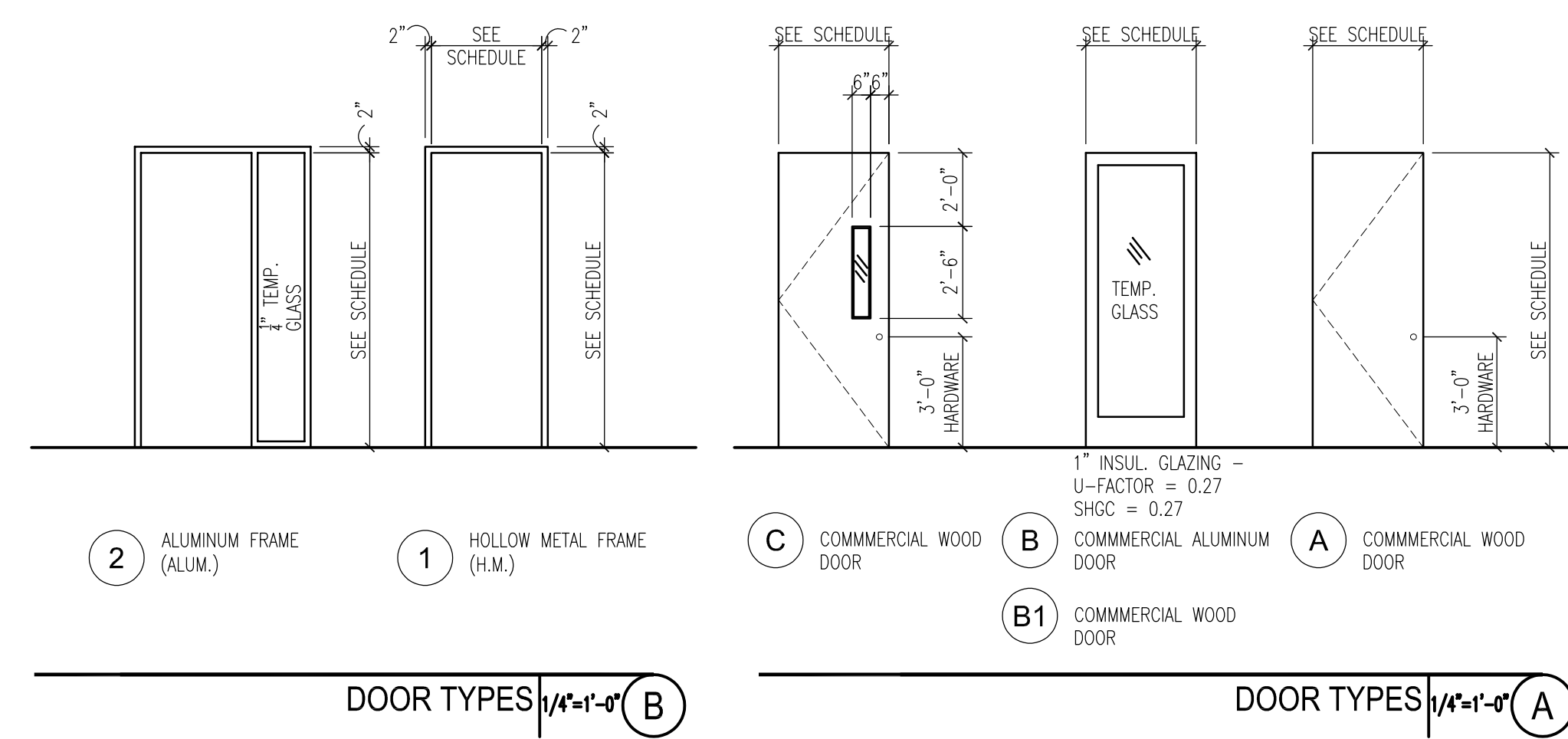
- EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS OR ANY OTHER TYPE OF DEVICE THAT MAY BE USED TO CLOSE OR RESTRAIN THE DOOR OTHER THAN BY OPERATION OF THE LOCKING DEVICE ARE NOT PERMITTED.
- PROVIDE MINIMUM MANEUVERING CLEARANCES THAT COMPLY WITH ANSI A117.1 2009 404.2.4
- PANIC HARDWARE ACTIVATING MEMBER SHALL BE MOUNTED AT A HEIGHT NOT LESS THAN 34" OR MORE THAN 48" ABOVE THE FLOOR. THE UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS WHEN APPLIED IN THE DIRECTION OF TRAVEL.
- ALL DOORS IN PATH OF TRAVEL SHALL HAVE HARDWARE THAT HAS A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. ANSI A117.1 2009 309.4
- ALL EXIT DOORS SHALL OPEN IN THE DIRECTION OF THE EGRESS TRAVEL WHERE THE AREA SERVED HAS AN OCCUPANT LOAD OF 50 OR MORE.
- THE DOOR SHALL SWING TO THE FULL OPEN POSITION WHEN SUBJECTED TO A 15 POUNDS FORCE TO THE LATCH SIDE
- THERE SHALL BE A FLOOR OR A LANDING ON EACH SIDE OF A DOOR. THE FLOOR OR LANDING SHALL BE AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR.
- GLASS AND GLAZING SHALL COMPLY WITH THE REQUIREMENTS OF THE 2021 I.B.C. CHAPTER 24
- GLASS AND GLAZING SUBJECT TO HUMAN IMPACT SHALL CONFORM WITH 2021 I.B.C. SECTION 2406
- FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION
- PROVIDE A DURABLE SIGN OVER ALL EXIT DOORS STATING THAT: "THIS DOOR TO REMAIN UNLOCKED WHENEVER THE BUILDING IS OCCUPIED" AT STOREFRONT DOORS ONLY
- A CERTIFICATE OF COMPLIANCE WILL BE PROVIDED FOR ALL EXTERIOR DOORS
- DOORS PROVIDING ACCESS TO ROOMS AND AREAS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS AND VALVES, FIRE DETECTION, SUPPRESSION, OR CONTROL ELEMENTS, OR ELECTRICAL CONTROL PANELS SHALL BE PROVIDED WITH APPROVED SIGNS (IFC 509.1)

## GLAZING GENERAL NOTES

- GLASS AND GLAZING SHALL COMPLY WITH THE REQUIREMENTS OF 2021 I.B.C. CHAPTER 24
- GLASS AND GLAZING SUBJECT TO HUMAN IMPACT SHALL CONFORM WITH THE 2021 I.B.C. SECTION 2406
- EACH PANE SHALL BEAR THE MANUFACTURER'S LABEL DESIGNATING THE TYPE AND THICKNESS OF THE GLASS OR GLAZING MATERIAL. 2021 I.B.C. SECTION 2403.1
- GLASS SLOPED 15° OR LESS FROM VERTICAL IN WINDOWS, CURTAIN AND WINDOW WALLS, DOORS AND OTHER EXTERIOR APPLICATIONS SHALL BE DESIGNED TO RESIST THE WIND LOADS DUE TO BASIC DESIGN WIND SPEED, V, IN SECTION 1609 FOR COMPONENTS AND CLADDING. GLASS IN GLAZED CURTAIN WALLS, GLAZED STOREFRONT AND GLAZED PARTITIONS SHALL MEET THE SEISMIC REQUIREMENTS OF ASCE 7, SECTION 13.5.9. THE LOAD RESISTANCE OF GLASS UNDER UNIFORM LOAD SHALL BE DETERMINED IN ACCORDANCE WITH ASTM E1300
- THE FRAMING MEMBERS FOR EACH INDIVIDUAL GLASS PANE SHALL BE DESIGNED SO THAT THE DEFLECTION PERPENDICULAR TO THE PLANE OF THE GLASS SHALL NOT EXCEED 1/175 OF THE GLASS EDGE LENGTH OR 3/4", WHICHEVER IS LESS, WHEN SUBJECTED TO THE LARGER OF THE POSITIVE OR NEGATIVE LOAD WHERE LOADS ARE COMBINED AS SPECIFIED IN 2021 I.B.C. SECTION 1605 (2021 I.B.C. SECTION 2403.3)

## STOREFRONT NOTES

- ALUMINUM FRAME FINISH TO BE CLEAR ANODIZED (MATCH EXISTING)
- ALL GLASS TO BE 1" INSULATED TINTED GLASS WITH 1/4" PANES AND 1/2" AIR SPACE FOR EXTERIOR AND 1/4" GLASS, CLEAR FOR INTERIOR (TEMPERED AS NOTED).
- FIELD MEASURE ALL OPENINGS PRIOR TO FABRICATION



DOOR AND FRAME SCHEDULE															
DOOR				FRAME				GENERAL							
DOOR NO.	ROOM NO.	ROOM NAME	TYPE	MATL	SIZE			LOUVER		TYPE	MATL	DETAIL			
					WD	HT	THK	WD	HT			HEAD	JAMB	SILL	
100	100	PHARMACY PATIENT AREA	B1	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
101	101	PHARMACY	C	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
103	103	STORAGE	A	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
111	111	NEW EXAM ROOM 1	A	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
112	112	NEW EXAM ROOM 2	A	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
113	113	NEW EXAM ROOM 3	A	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
114	114	OFFICE	A	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
116	116	NEW EXAM ROOM 4	A	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
117	117	NEW EXAM ROOM 5	A	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
201	201	OFFICE	C	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
210	210	WAITING	B	ALUM	3'-0"	8'-0"	-	-	-	2	H.M.	3	3	4	--
211	211	OFFICE 1	A	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
212	212	OFFICE 2	A	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
213	213	OFFICE 3	A	WD.	3'-0"	8'-0"	-	-	-	1	H.M.	1	1	2	--
REMARKS															
1. DOOR 100 AND 101 SHOULD HAVE THE SAME KEY, BUT CANNOT BE ON THE BUILDING															
2. PROVIDE DEADBOLT.															
3. CARD ACCESS.															
4. STOREROOM LOCK (NP080PD SPA) IN LIEU OF OFFICE LOCK.															

DOOR HARDWARE					
HARDWARE SET H-1					
ITEM NAME	QTY	MODEL NO.	FINISH	MFR.	NOTES
HINGES	4	TA2714 4.5X4.5	260	MC	-
PASSAGE LATCH	1	ND105 SPA	626	SC	-
WALL STOP	1	406	US32D	RO	-
DOOR SILENCERS	4	608	GREY	RO	-
HARDWARE SET H-2					
ITEM NAME	QTY	MODEL NO.	FINISH	MFR.	NOTES
HINGES	4	TA2714 4.5X4.5	260	MC	-
OFFICE LOCK	1	ND53PD SPA	626	SC	-
WALL STOP	1	406	US32D	RO	-
DOOR SILENCERS	4	608	GREY	RO	-
HARDWARE SET H-3					
ITEM NAME	QTY	MODEL NO.	FINISH	MFR.	NOTES
HINGES	4	TA2714 4.5X4.5	260	MC	-
STOREROOM LOCK	1	ND80PD SPA	626	SC	-
CLOSER	1	7500	689	NO	-
DOOR SILENCERS	4	608	GREY	RO	-
DOOR SEALS	1		GREY	RO	-
DOOR SWEEP	1				-
DOOR THRESHOLD	1				-

## MANUFACTURERS LIST

MFR. ID	MANUFACTURER	PRODUCT SUPPLIED
AH	A.B.H.	O.H. STOP
BE	BEST LOCK	CONST. CORES, DEADLOCK, LOCKSET, MORT. CYLINDER, PASSAGE SET, PRIVACY SET, RIM CYLINDER
DC	DCI	AUTO FLUSHBOLT, COORDINATOR, D.P. STRIKE
HS	HES	ELECTRIC STRIKE, SMART PACK
MK	McKINNEY	BUTT HINGES, CONT. HINGE, ELEC. HINGE, GATE PIVOT
NO	NORTON	ACTUATOR, AUTO OPERATOR, DOOR CLOSER
PE	PEMKO	ASTRAGAL, DOOR SWEEP, GASKETING, MTG. STILES, RAIN DRIP, THRESHOLD, WEATHER STRIPPING
RO	ROCKWOOD	D.P. STRIKE, DOOR VIEWER, FLOOR STOP, FLUSHBOLT, KICKPLATE, LOCK GUARD, PUSH PLATE, SILENCER, STOP & HOLDER, SURFACE BOLT, WALL STOP, POWER SUPPLY
SU	SECURITRON	POWER SUPPLY
VD	VON DURPIN INC.	EXIT DEVICE, REM. MULLION

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## [T]

## [F]

## ARCHITECT



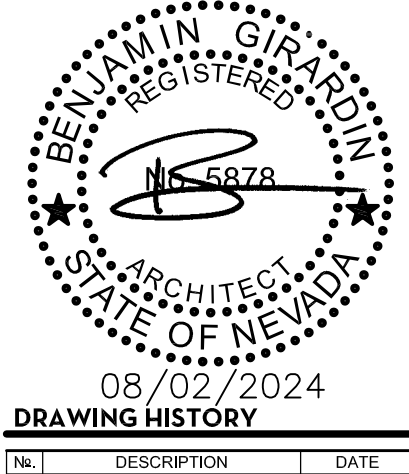
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## REGISTRATION

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## PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

## PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

## PROJECT NUMBER

1007689.00

## SHEET TITLE

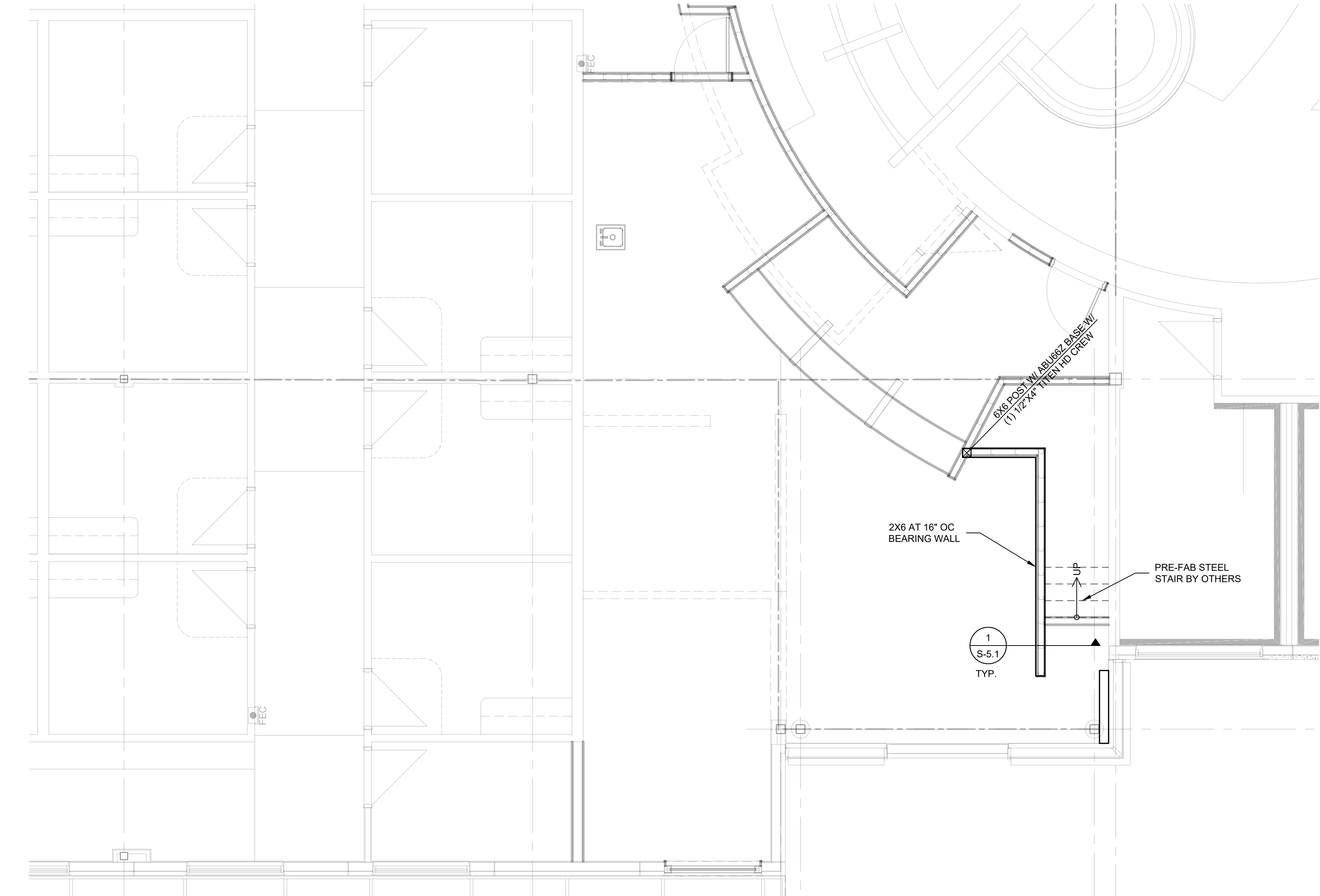
Door Schedule and Details

## SHEET NUMBER

A7.00



FILE NAME: NEVADA HEALTH CENTERS STRUCTURE.DWG  
DATE STAMP: 8/2/2024 10:25:23 AM



1 PARTIAL FOUNDATION PLAN  
SCALE: 1/4" = 1'-0"

## STRUCTURE NOTES

### GENERAL

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:  
THE 2021 EDITION OF INTERNATIONAL BUILDING CODE, AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND IN THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.

2. DO NOT SCALE THE DRAWINGS.

3. DESIGN LOADS:

ROOF LIVE LOAD:	20	PSF
ROOF DEAD LOAD:	20	PSF
FLOOR LIVE LOAD:	80	PSF
FLOOR DEAD LOAD:	35	PSF
PARTITIONS ( INCLUDED IN FLOOR LIVE LOAD):	15	PSF
FLOOR TOPPING (INCLUDED IN FLOOR DEAD LOAD):	14	PSF
STAIR LIVE LOAD:	100	PSF
STAIR DEAD LOAD:	45	PSF

SEISMIC LOADS:

• THE MAPPED SPECTRA ACCELERATION:	S <sub>s</sub> = 0.626g
• THE MAPPED SPECTRA ACCELERATION:	S <sub>1</sub> = 0.203g
• IMPORTANCE FACTOR	I <sub>e</sub> = 1.0
• RISK CATEGORY	II
• SITE CLASS	D
• SPECTRAL RESPONSE ACCELERATIONS:	SDS = 0.542g
	SD1 = N/A
	D
• SEISMIC DESIGN CATEGORY:	D
• BASIC SEISMIC-FORCE-RESISTING SYSTEM:	N/A
• DESIGN BASE SHEAR COEFFICIENT:	CS: N/A
• RESPONSE MODIFICATION FACTOR:	R: N/A
• ANALYSIS PROCEDURE:	N/A

WIND LOADS:

- BASIC WIND SPEED = 100 MPH (3 SECOND GUST)
  - EXPOSURE: B
  - RISK CATEGORY: II
- COMPONENT AND CLADDING WIND PRESSURE PER ASCE 7-16

### FOUNDATION

1. SLAB ON GRADES ARE DESIGNED BASED ON AN ALLOWABLE SOIL PRESSURE OF 750 PSF

### WOOD

1. FRAMING LUMBER SHALL BE DOUGLAS FIR NO. 2 GRADE, UNLESS OTHERWISE NOTED. STUDS SHALL BE DOUGLAS FIR STUD GRADE FOR 2X4, AND NO. 2 GRADE FOR LARGER PIECES, UNLESS OTHERWISE NOTED. MAXIMUM ALLOWABLE MOISTURE CONTENT SHALL BE 19% UNLESS OTHERWISE NOTED.

2. GLUED LAMINATED WOOD BEAMS SHALL BE DOUGLAS FIR, COMBINATION 24F-V4 FOR SIMPLE SPANS AND 24F-V8 FOR SPANS WITH CANTILEVERS IN ACCORDANCE WITH SECTION 2303 OF THE IBC AND WITH AITC 117. USE EXTERIOR TYPE ADHESIVES UNLESS OTHERWISE NOTED.

### SPECIAL INSPECTION

1. SPECIAL INSPECTION SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK:

- SIMPSON TITEN HD SCREW FOR CONCRETE PER ESR-2713

### DEFERRED ITEM

1. PRE-FAB STEEL STAIR

2. PRE-FAB TRUSSES

CLIENT



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[F]

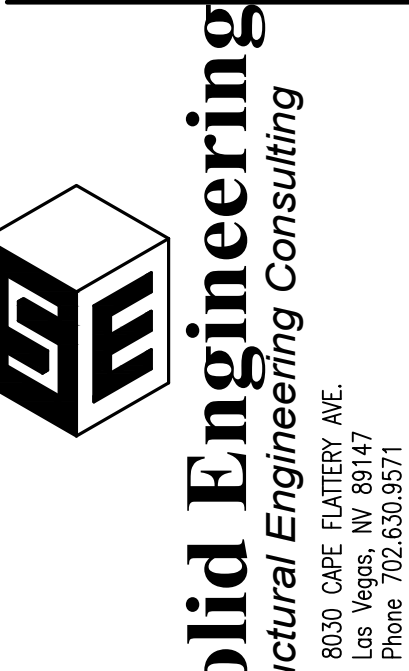
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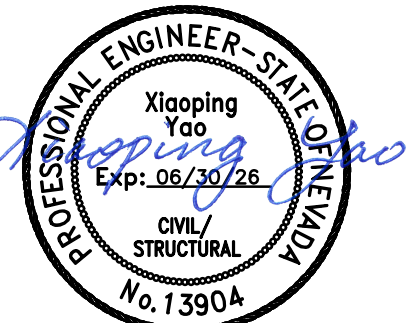
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Aug 06, 2024

DRAWING HISTORY		
No.	DESCRIPTION	DATE

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

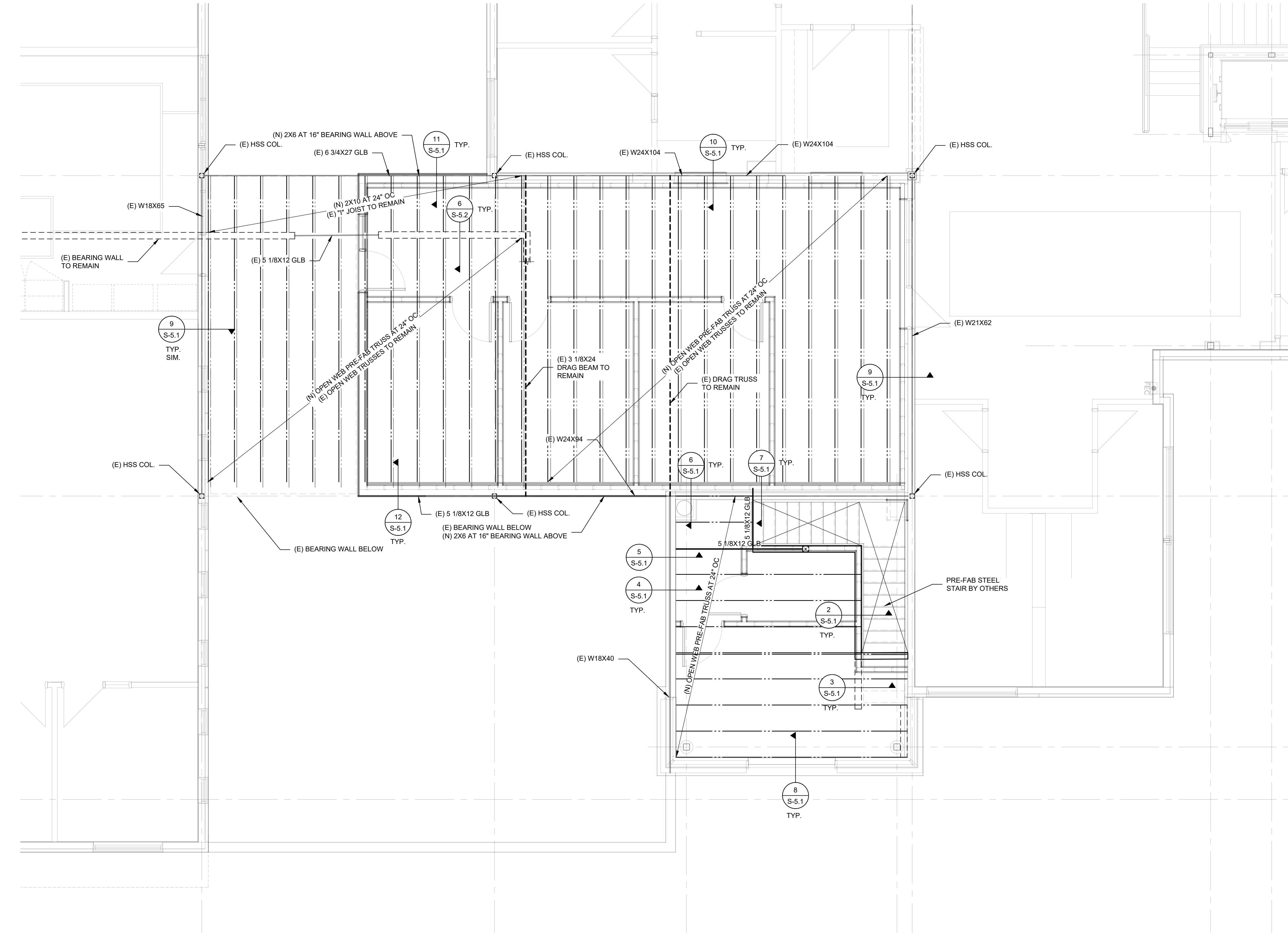
FOUNDATION  
PLAN

SHEET NUMBER

S-1



FILE NAME: NEVADA HEALTH CENTERS STRUCTURE.DWG  
DATE STAMP: 8/2/2024 9:25:55 AM



FLOOR FRAMING PLAN NOTES:

- FLOOR TO BE 1 1/8" T&G APA RATED PLYWOOD WITH SPAN RATE 60/48, NAILED WITH 10d COMMON AT 6" AT EDGES AND BOUNDARIES AND AT 12" IN FIELD. NO BLOCKING IS REQUIRED. 1-1/2" LIGHT WEIGHT FLOOR TOPPING (14 PSF MAX) MAY BE USED OVER FLOOR SHEATHING TO MATCH EXISTING 2ND FLOOR. GC TO FIELD VERIFY.
- ALL FLOOR OPEN WEB JOISTS TO BE DESIGNED FOR LL = 80 PSF & DL = 35 PSF.
- ALL NEW EXTERIOR WALLS TO BE 2X6 DF #2 AT 16" OC SHEATHED W/ 3/4" CDX W/ 8d COMMON AT 6" OC AT EDGES AND BOUNDARIES AND AT 12" OC IN FIELD.
- VERIFY ALL DOOR AND WINDOW OPENING SIZE WITH DETAILS SHOWN IN ARCHITECTURE DRAWINGS
- ALL DIMENSIONS COORDINATE WITH ARCHITECTURE DRAWINGS

CLIENT



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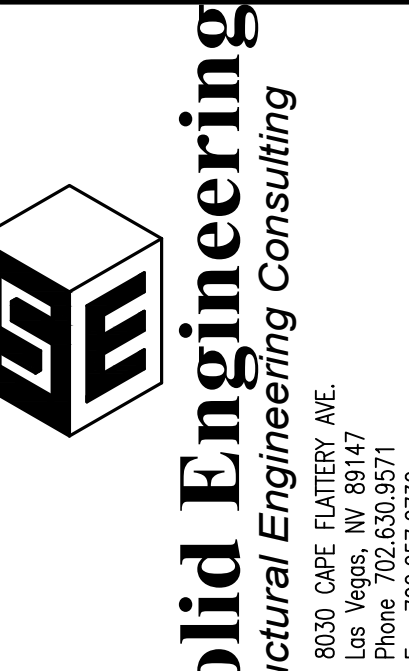
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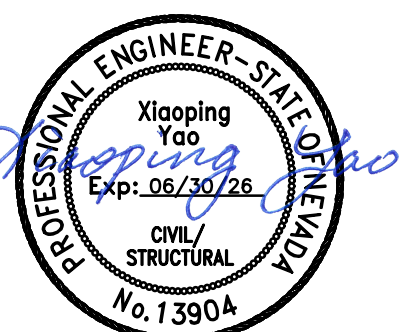
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Aug 06, 2024

DRAWING HISTORY		
NO.	DESCRIPTION	DATE

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

PARTIAL 2ND  
FLOOR FRAMING  
PLAN

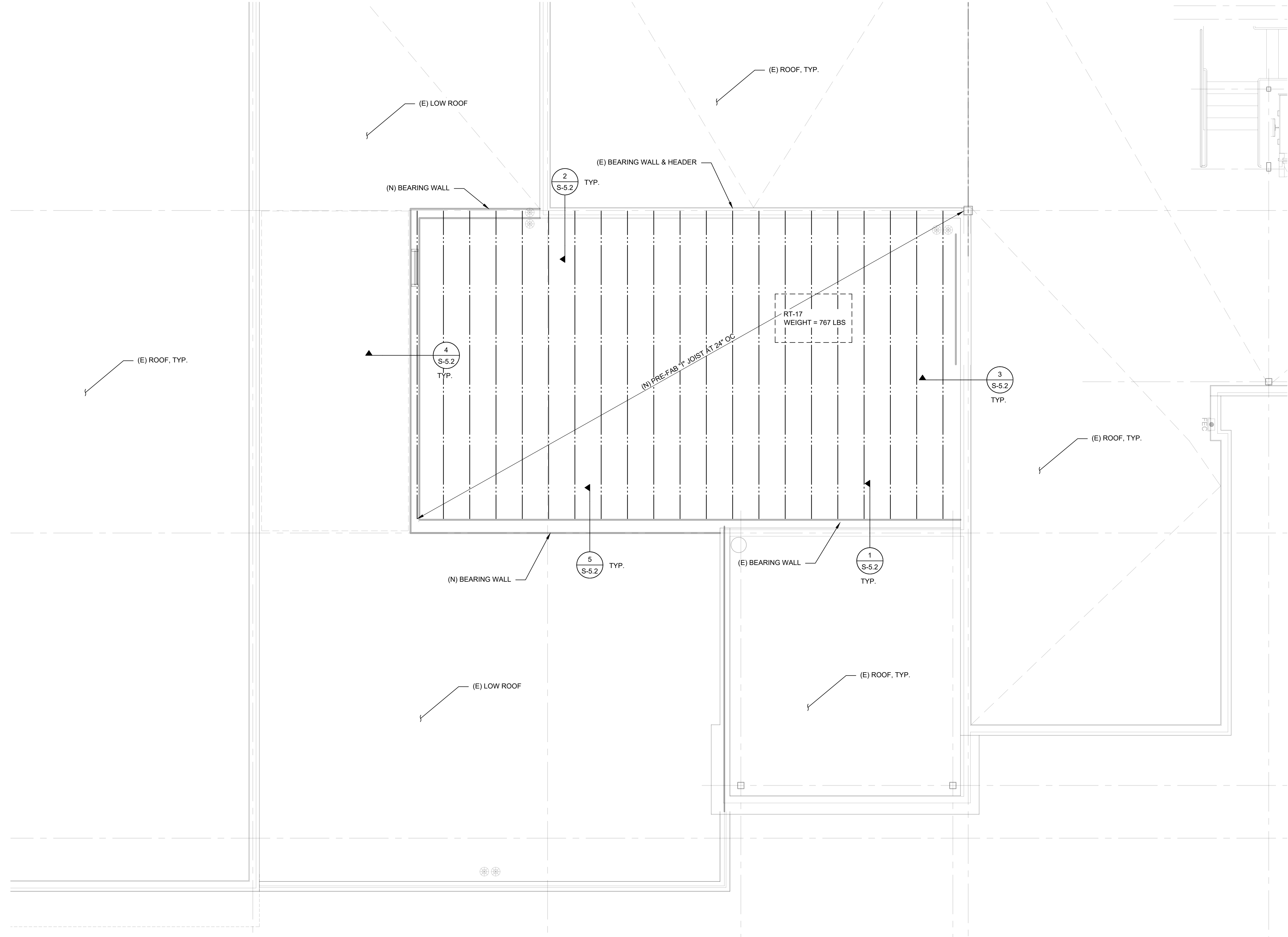
SHEET NUMBER

S-2

1 PARTIAL 2ND FLOOR FRAMING PLAN  
SCALE: 1/4" = 1'-0"



FILE NAME: NEVADA HEALTH CENTERS STRUCTURE.DWG  
DATE STAMP: 6/10/2024 1:49:50 PM



ROOF FRAMING PLAN NOTES:

1. ROOF SHEATHING SHALL BE  $\frac{1}{2}$ " APA RATED PLYWOOD WITH SPAN RATE 24/0, NAILED WITH 8d COMMON AT 6" AT EDGES AND BOUNDARIES AND AT 12" IN FIELD. NO BLOCKING IS REQUIRED.
2. ALL ROOF 1" JOISTS TO BE DESIGNED FOR LL = 20 PSF & DL = 20 PSF.
3. VERIFY ALL DOOR AND WINDOW OPENING SIZE WITH DETAILS SHOWN IN ARCHITECTURE DRAWINGS
4. ALL DIMENSIONS COORDINATE WITH ARCHITECTURE DRAWINGS

CLIENT



[T]  
[F]

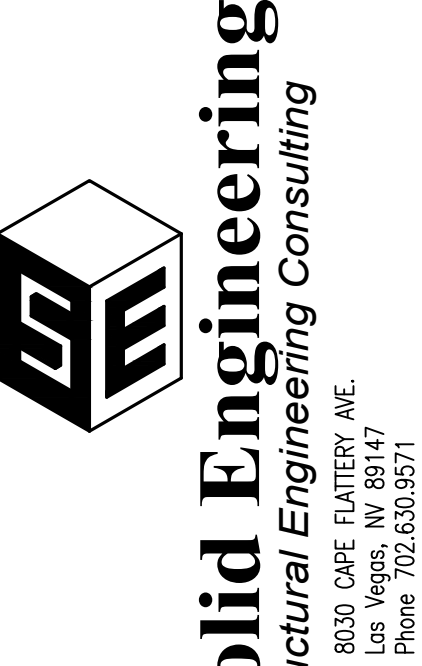
ARCHITECT



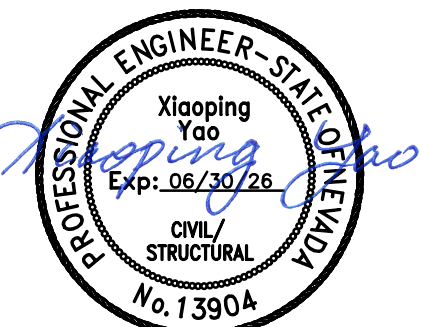
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Aug 06, 2024

DRAWING HISTORY		
NO.	DESCRIPTION	DATE

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

PARTIAL ROOF  
FRAMING PLAN

SHEET NUMBER

S-3

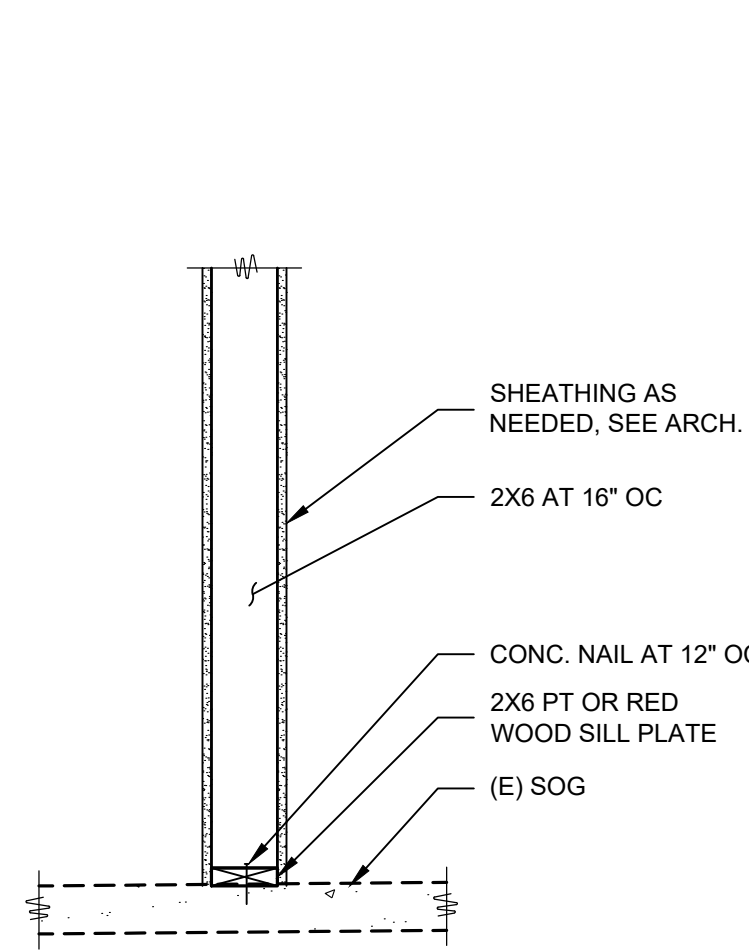
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PARTIAL ROOF FRAMING PLAN

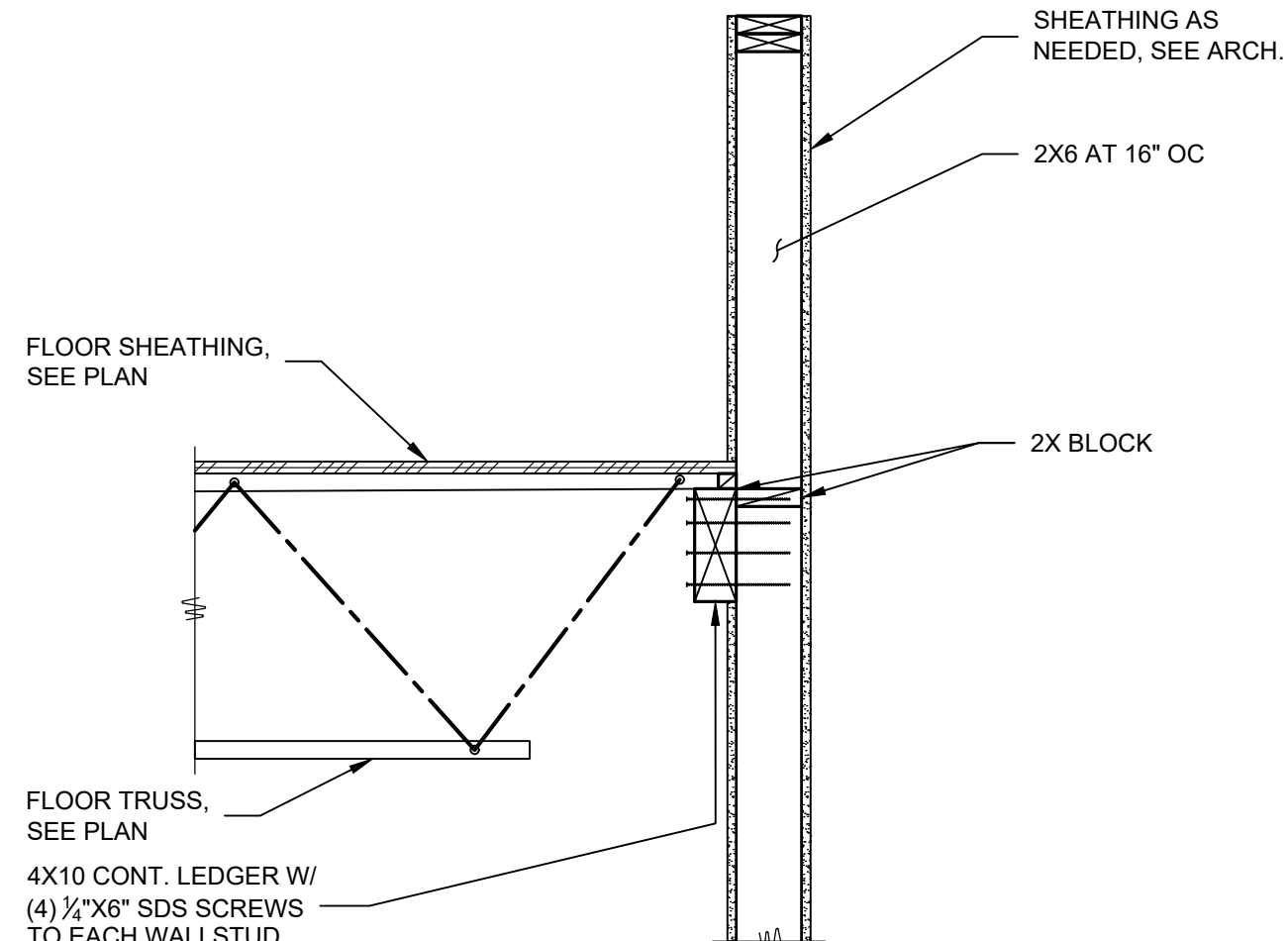
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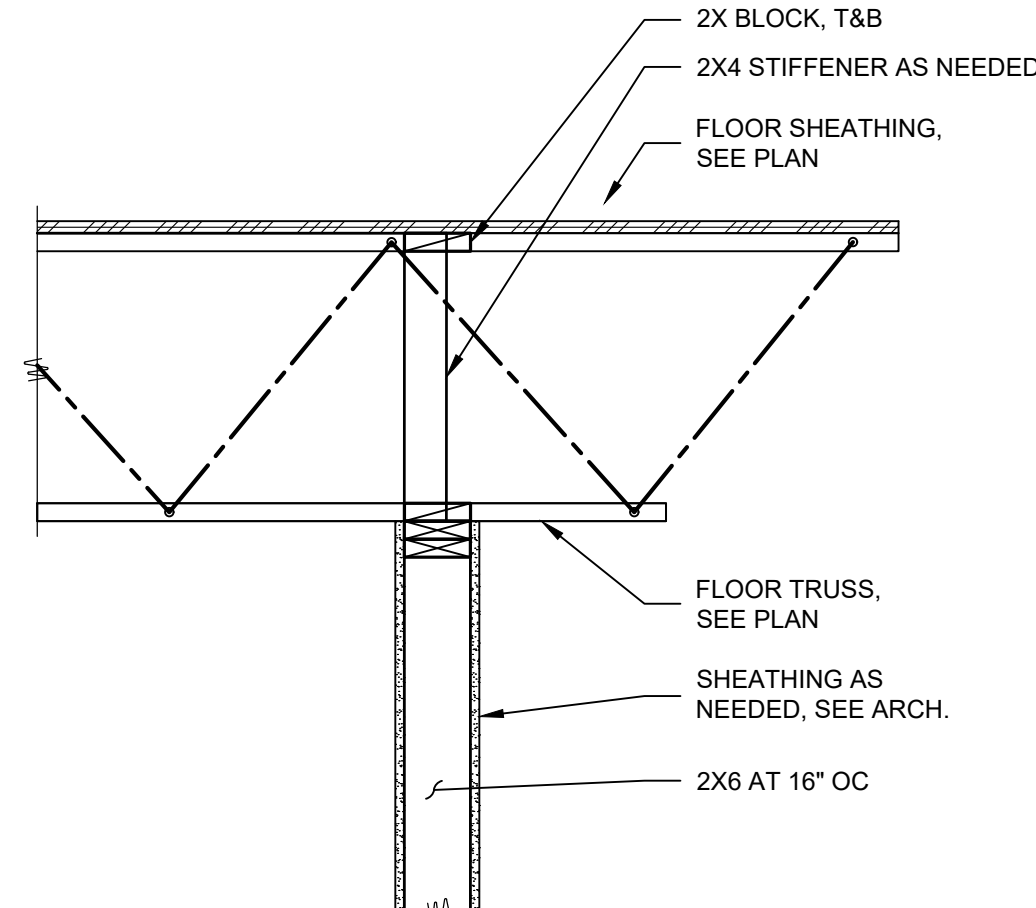
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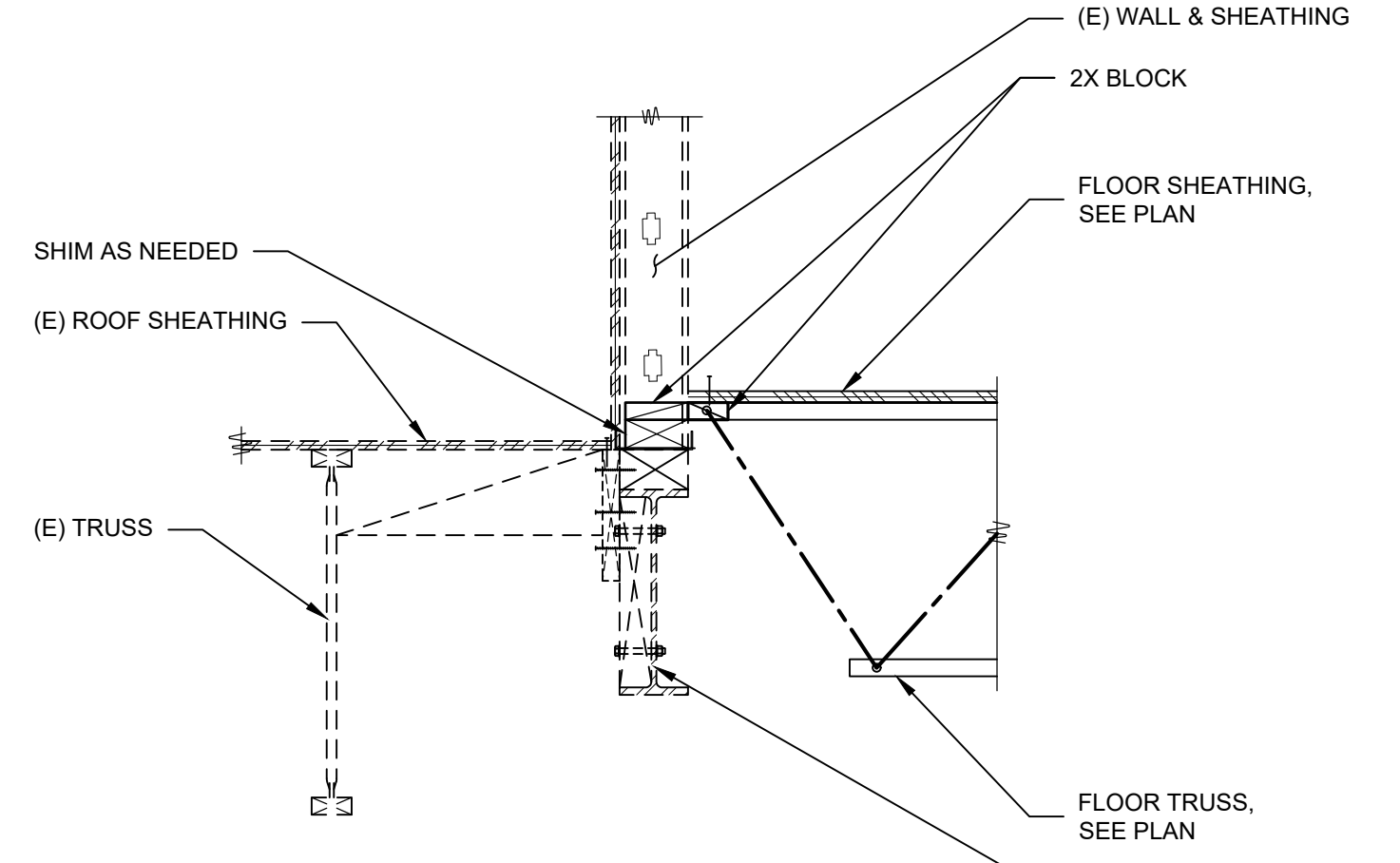
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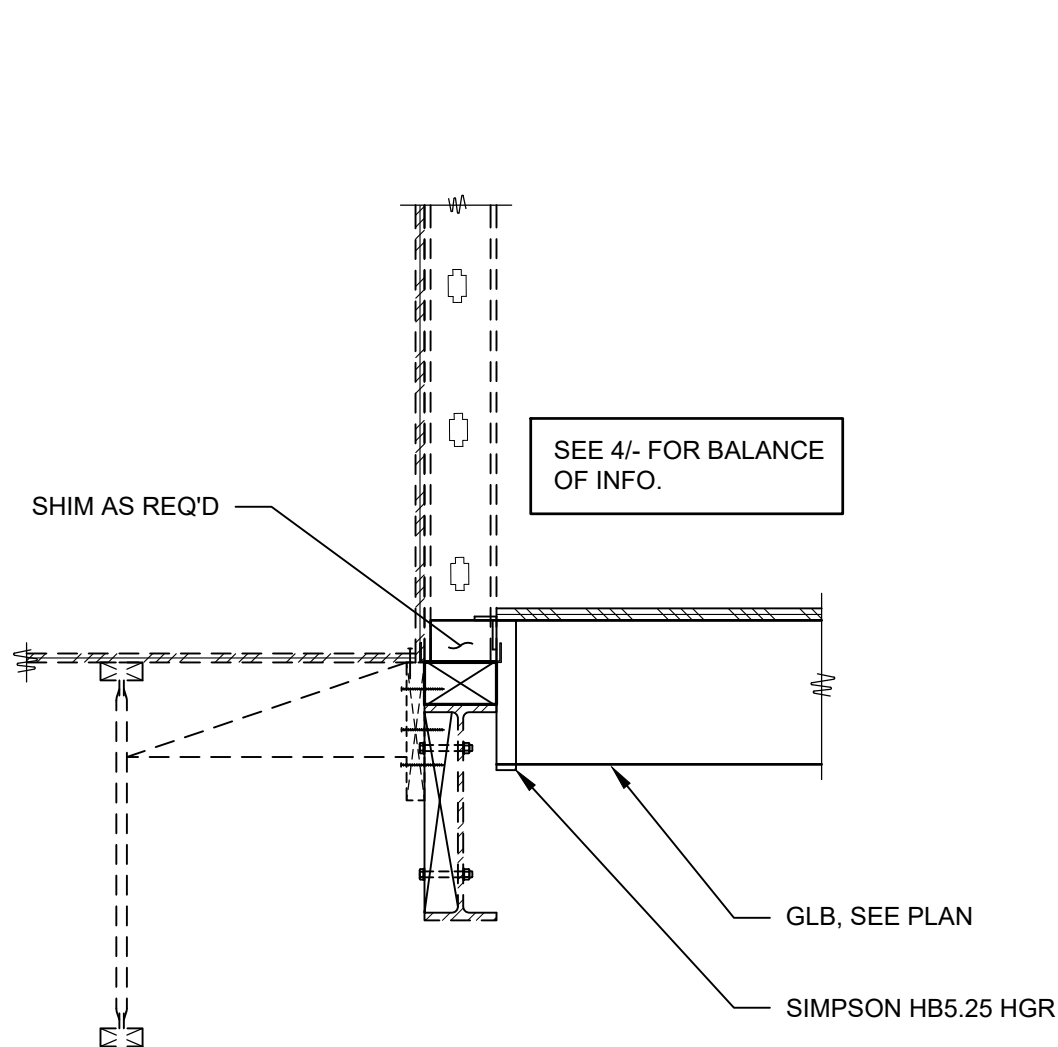
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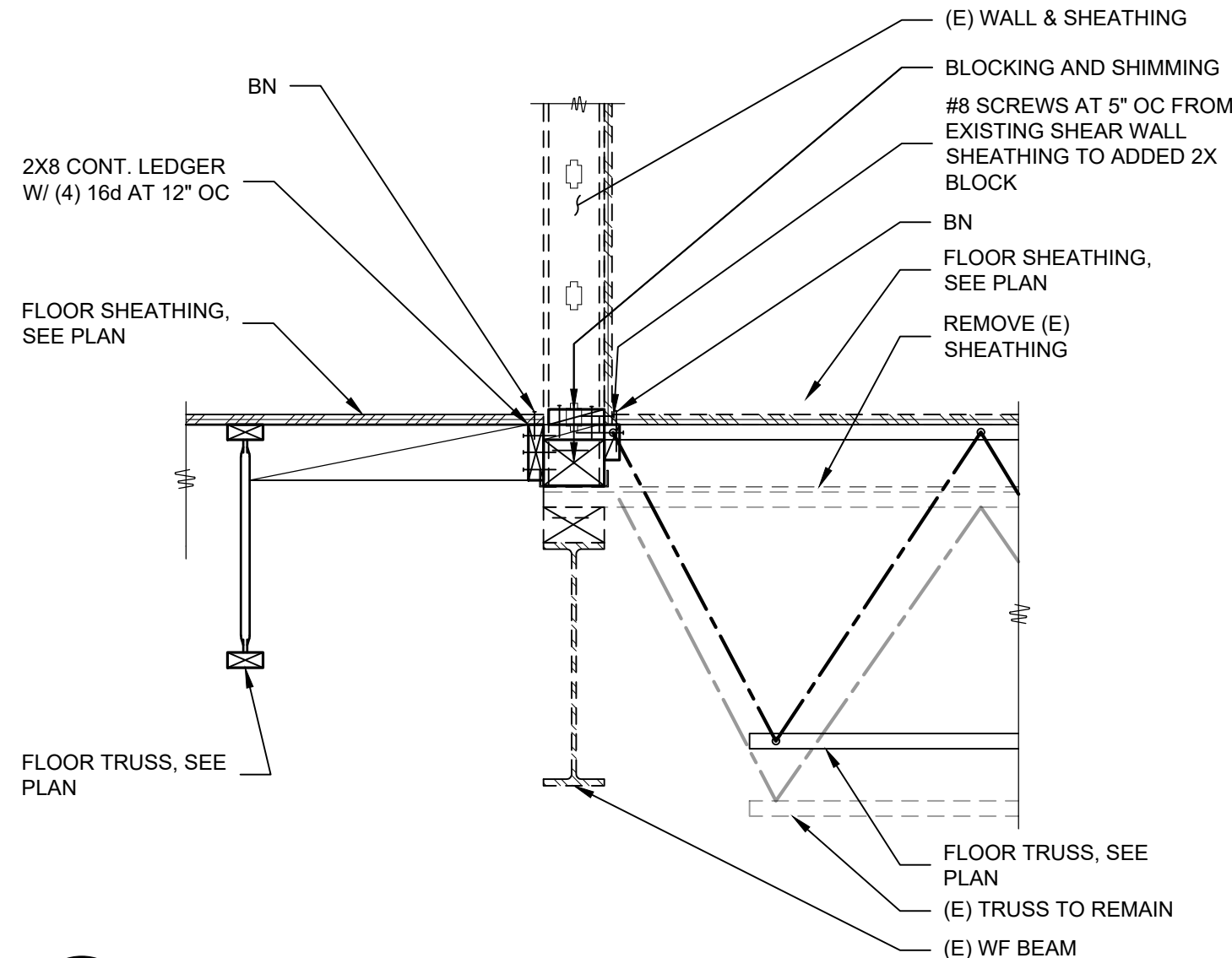
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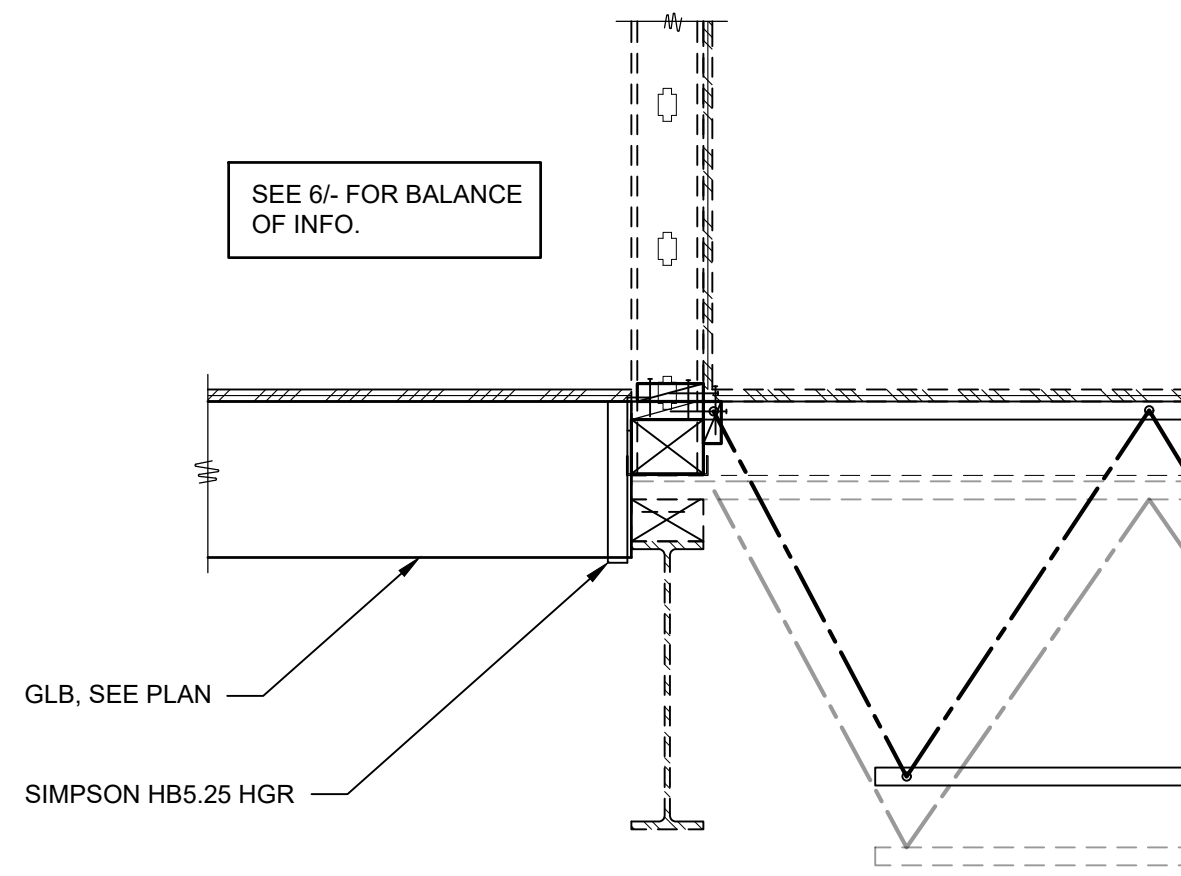
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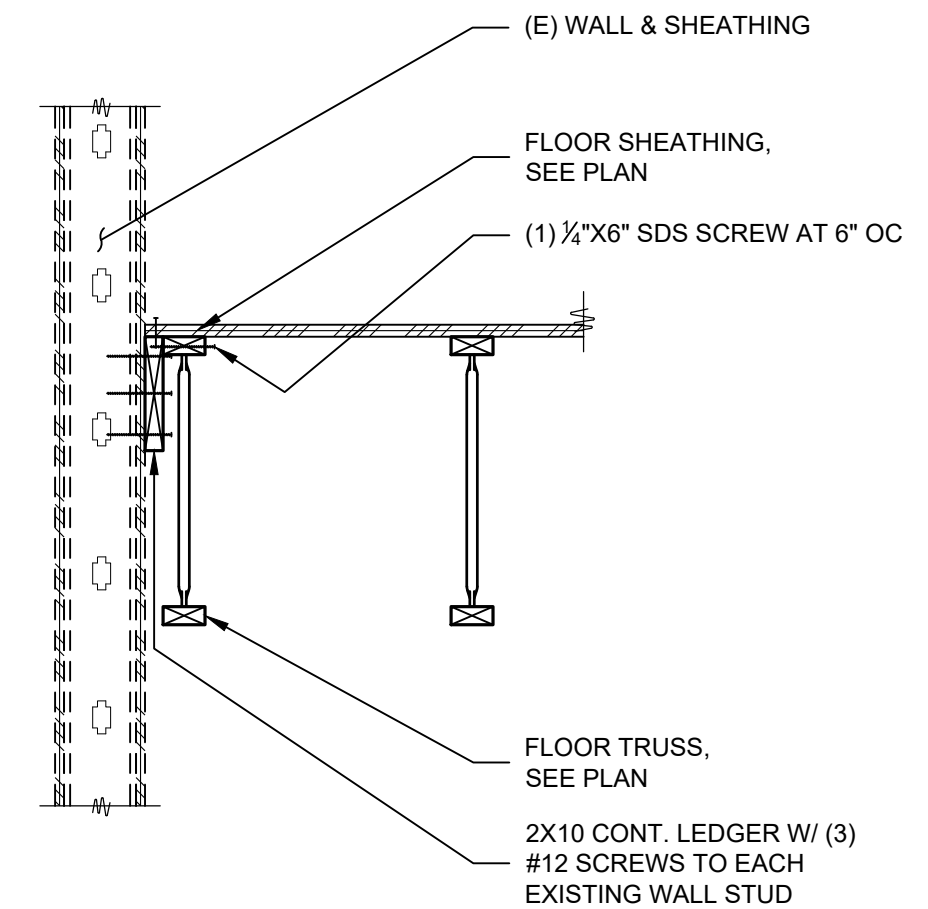
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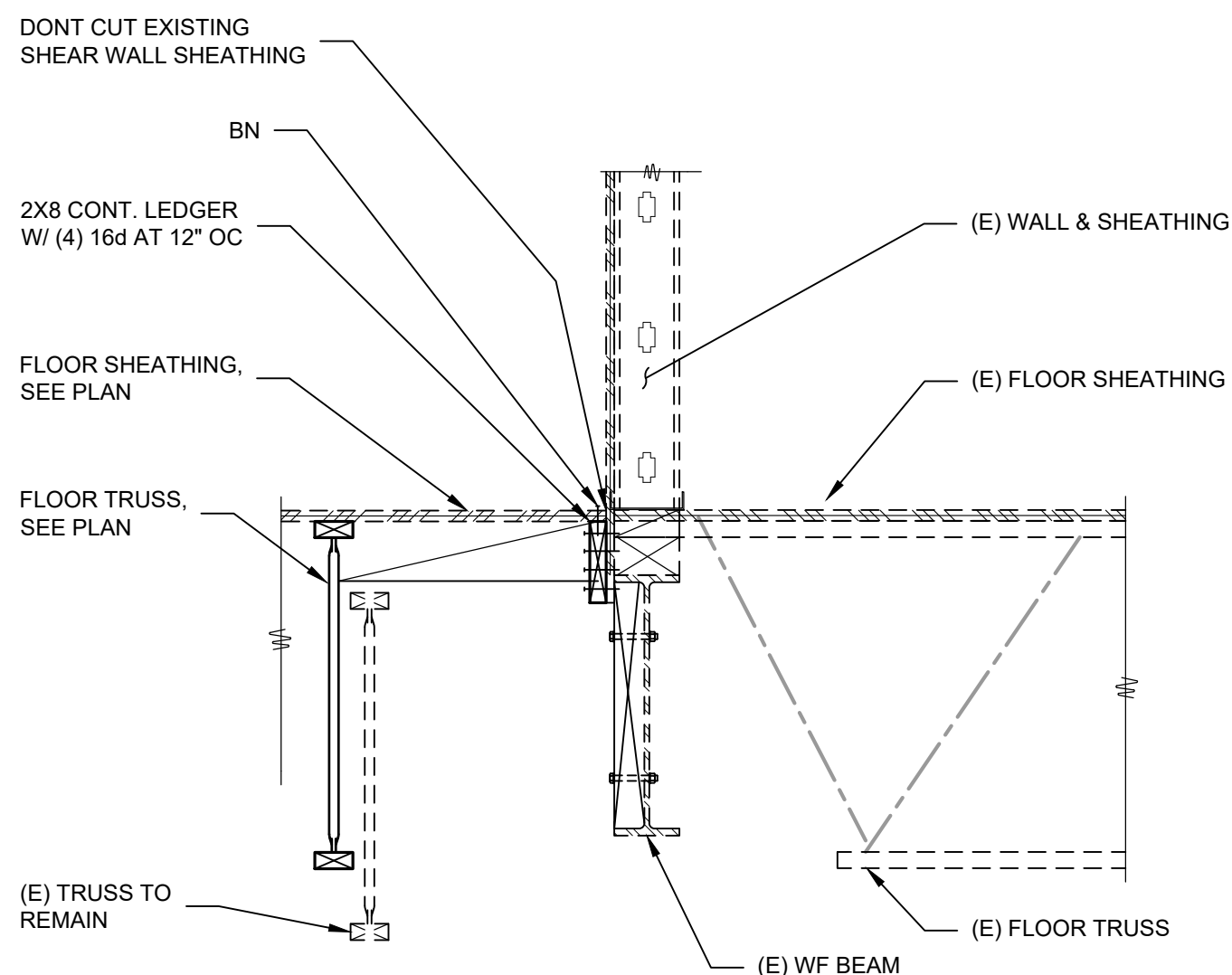
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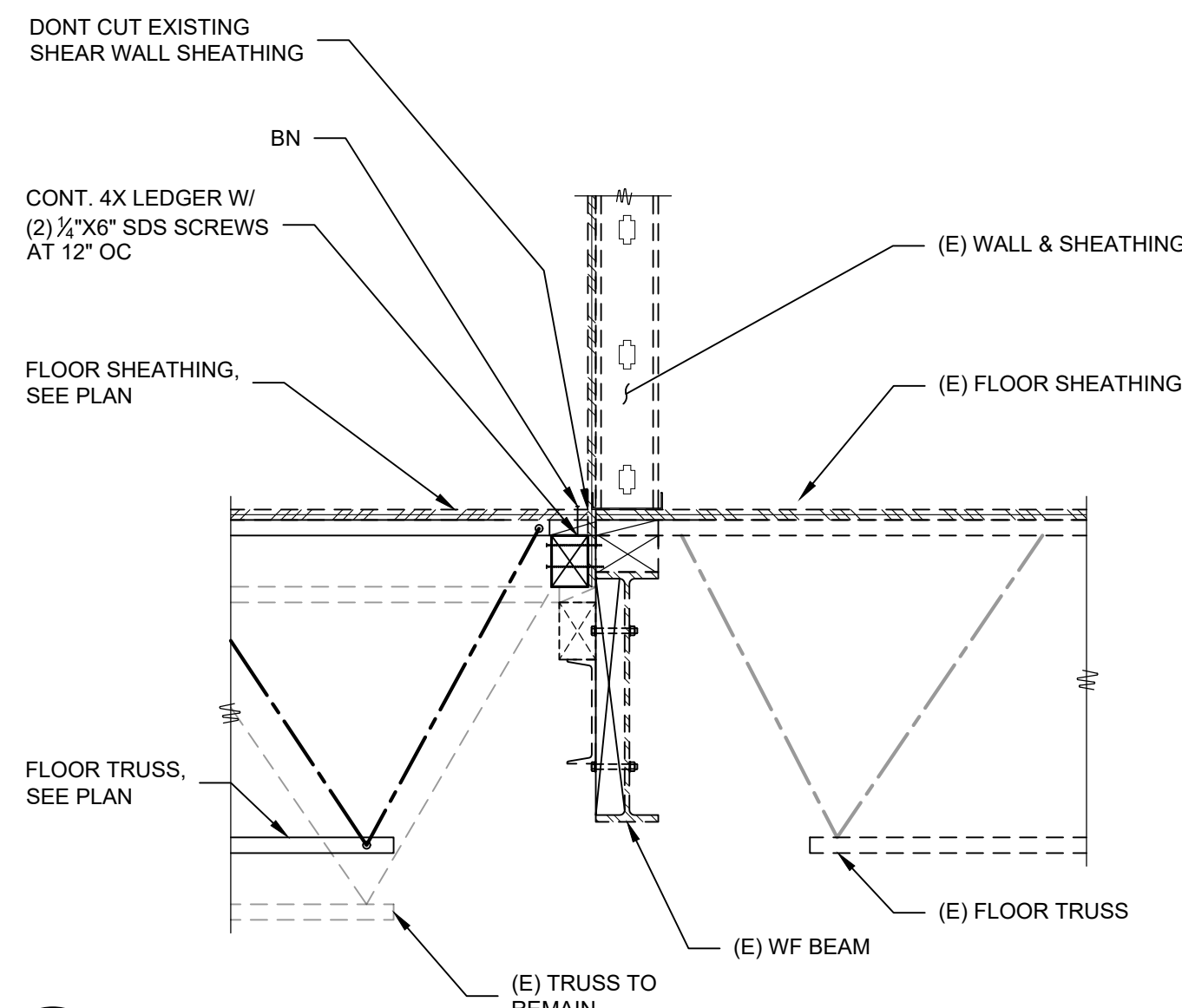
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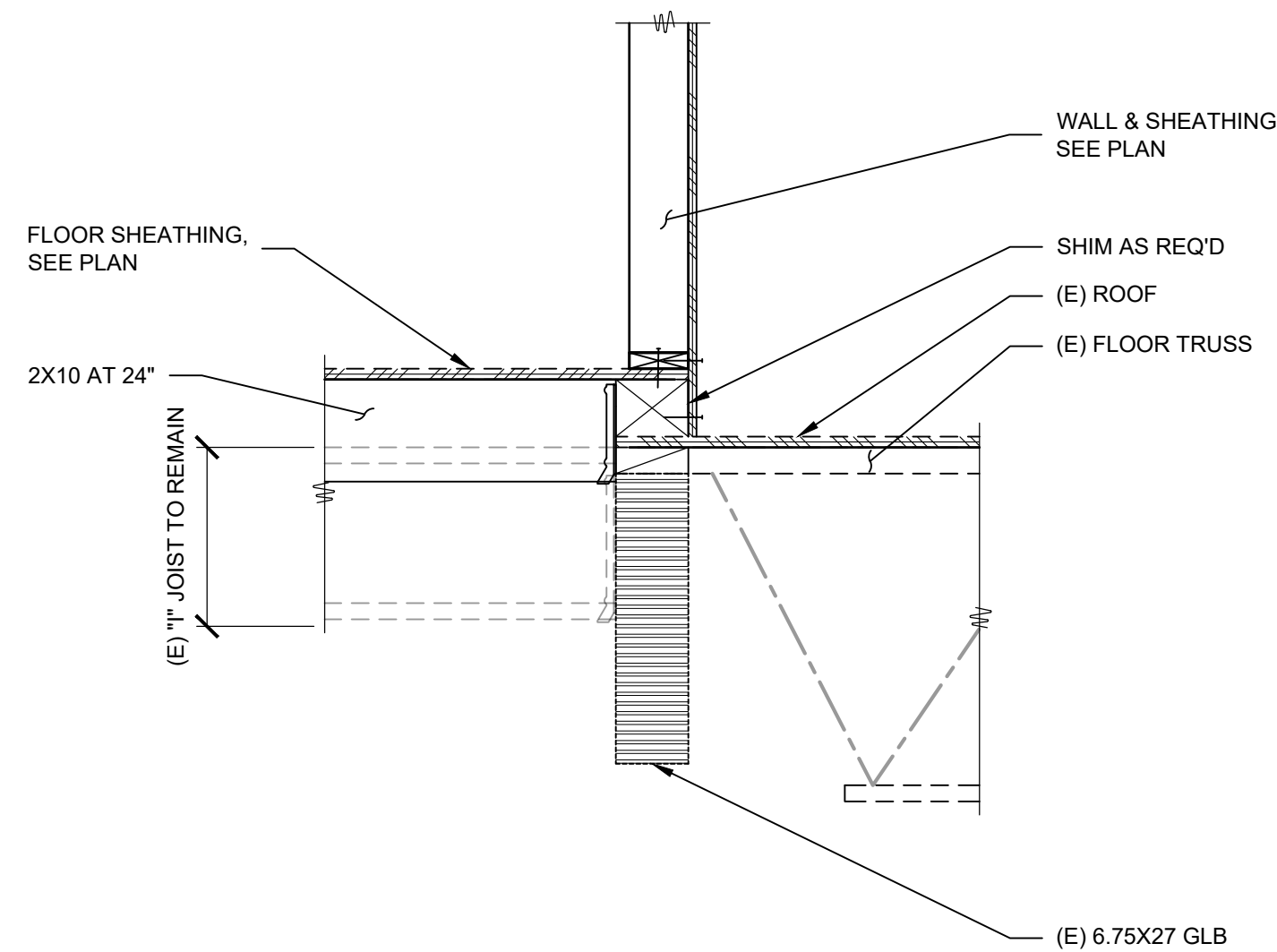
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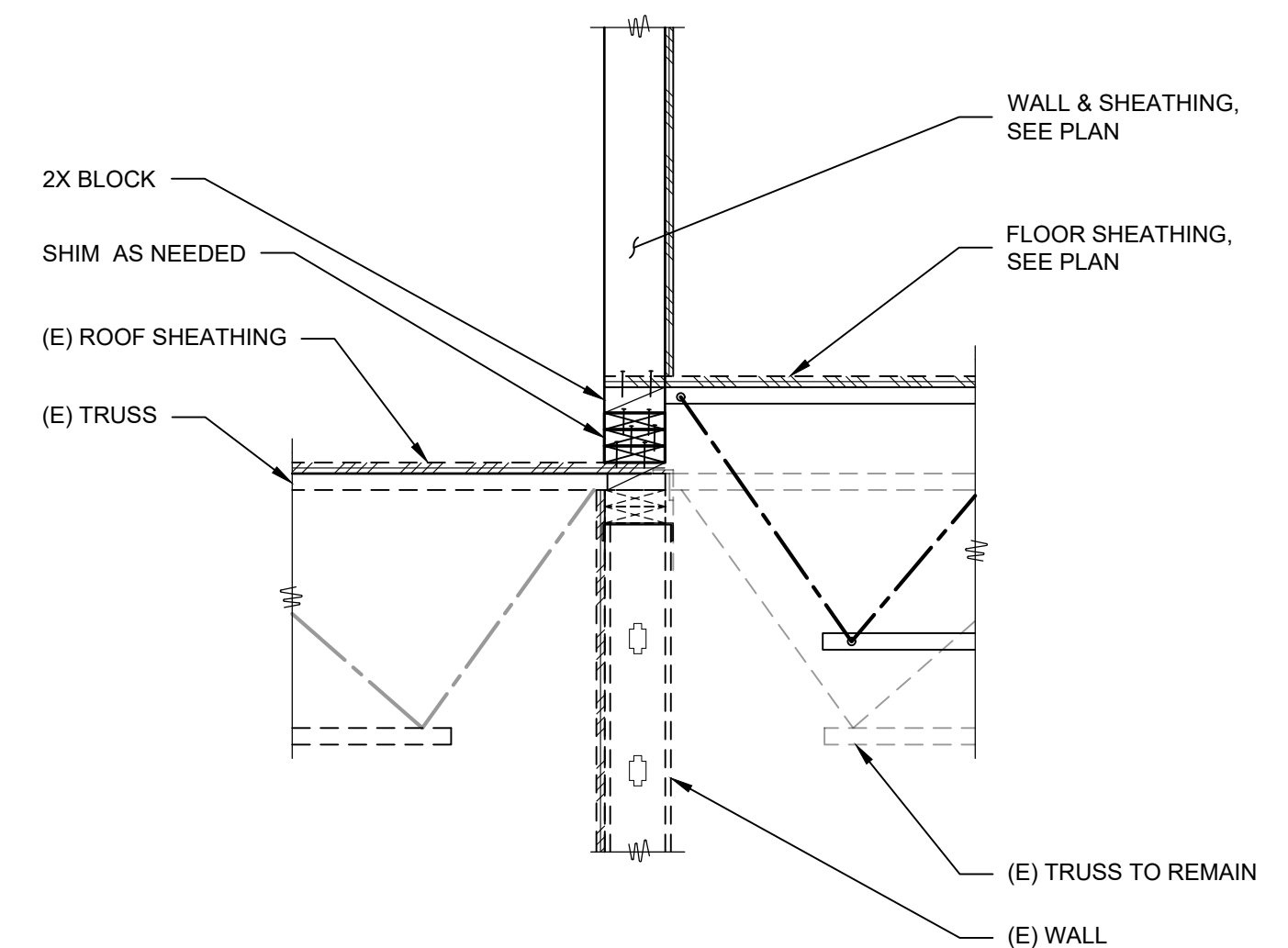
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11 DETAIL  
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12 DETAIL  
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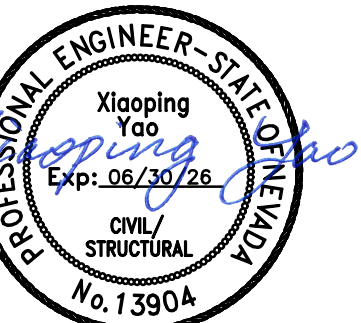
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Structural Engineering Consulting  
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FAX: 702.253.2732

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Aug 06, 2024

DRAWING HISTORY

No.	DESCRIPTION	DATE
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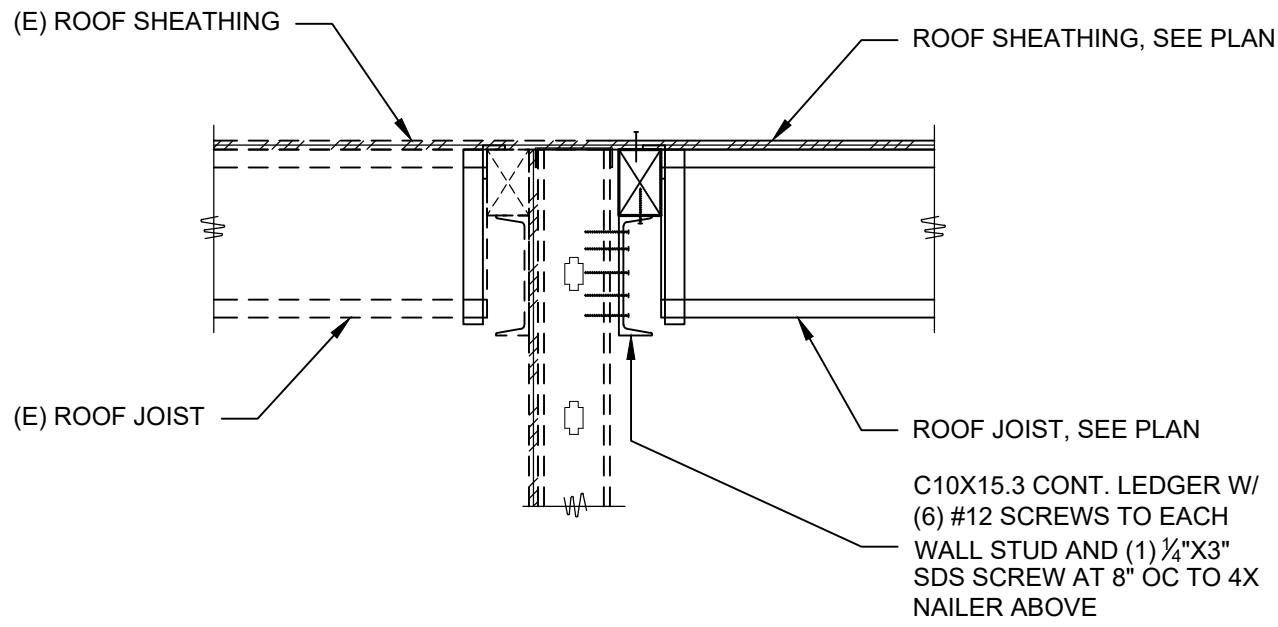
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DETAILS

SHEET NUMBER

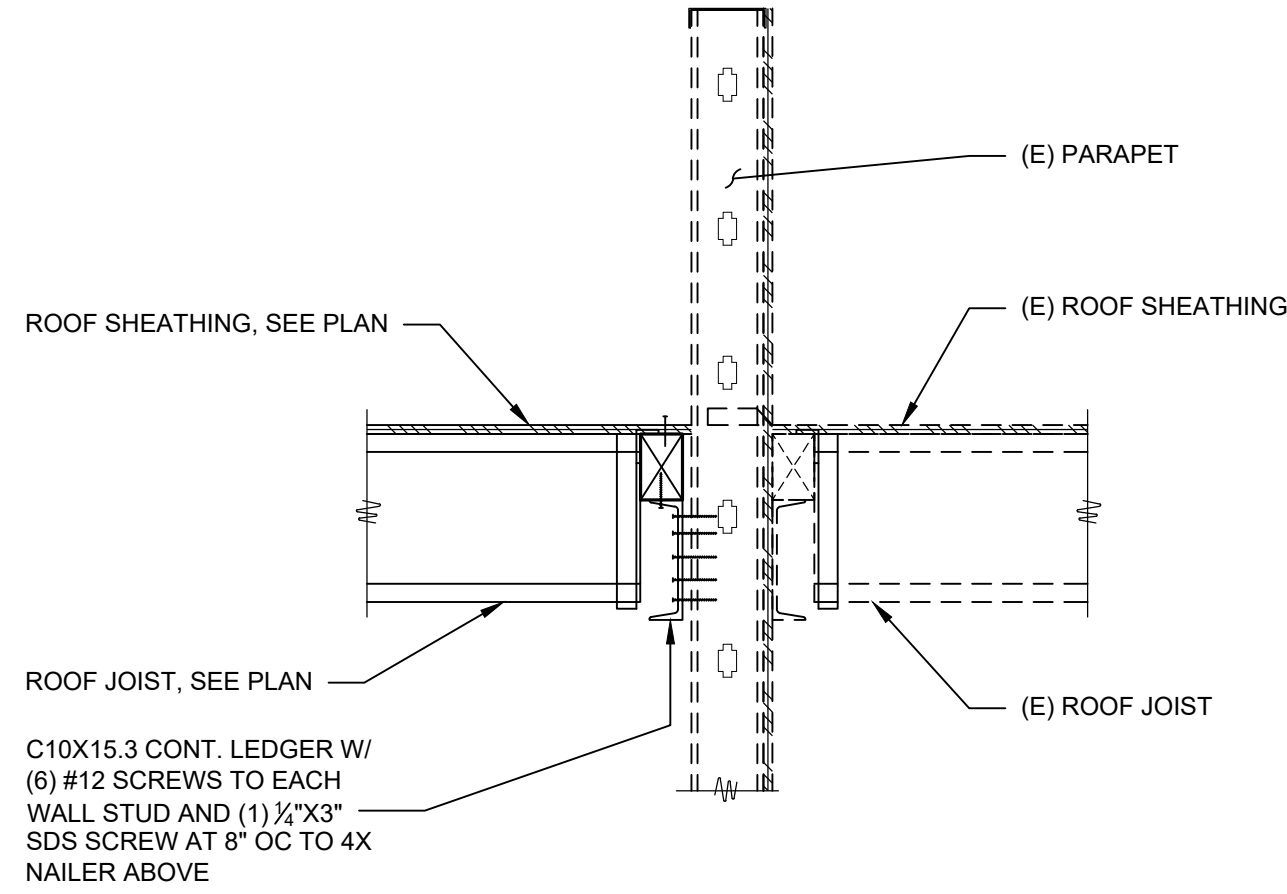
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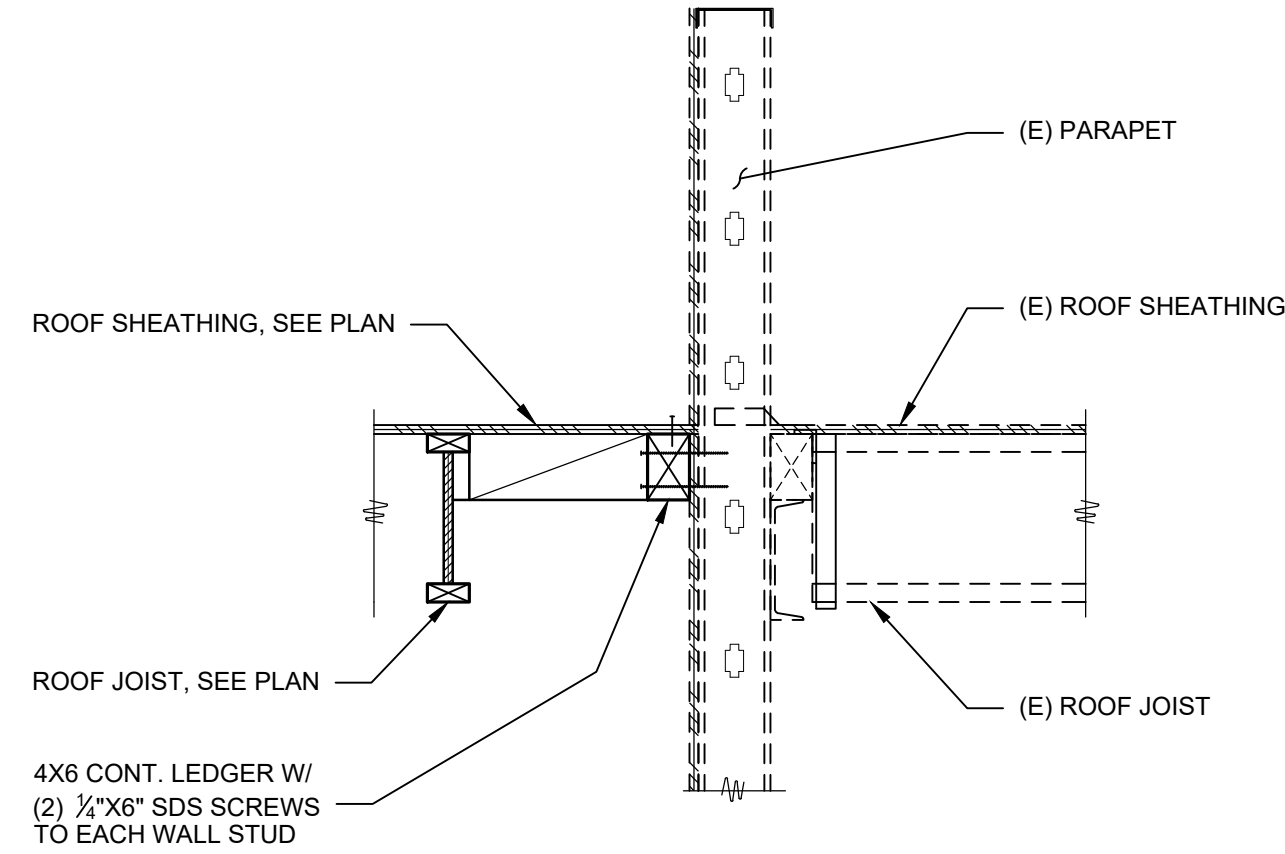
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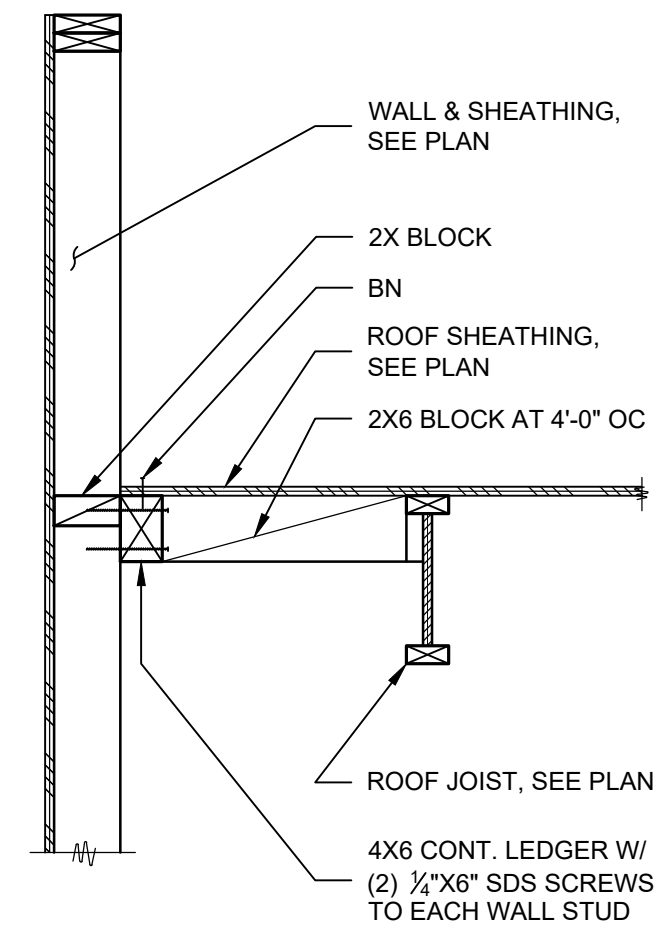
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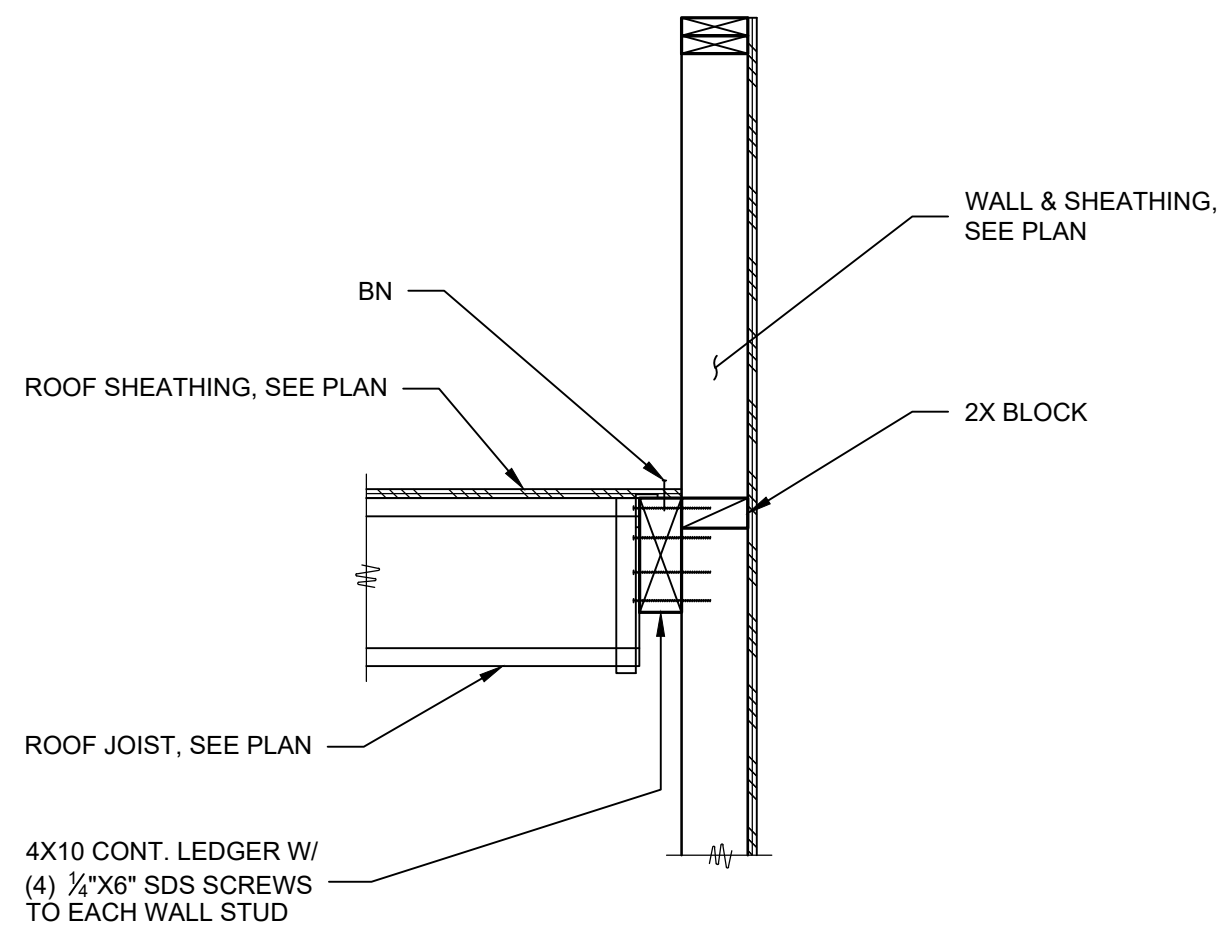
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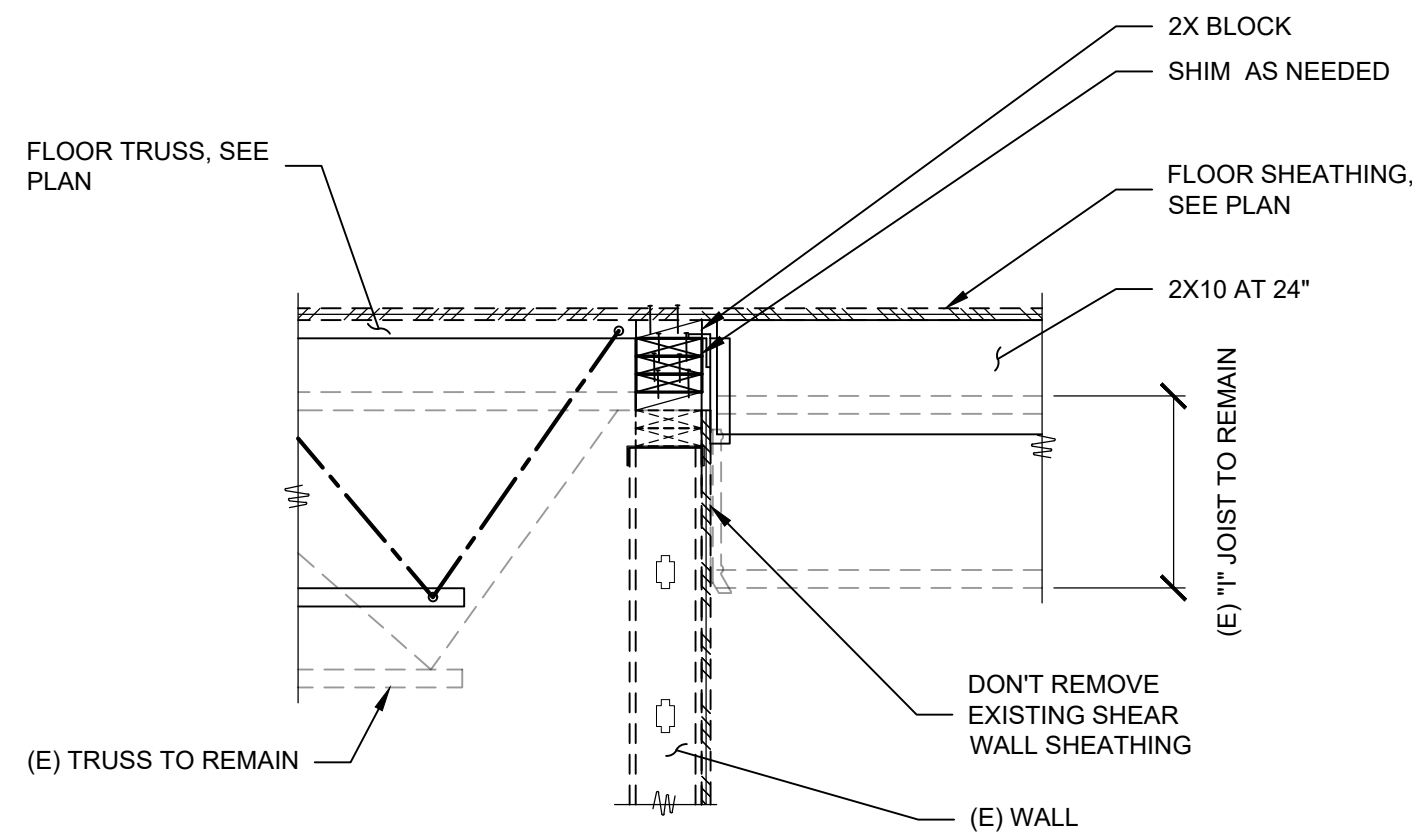
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5 DETAIL  
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6 DETAIL  
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CLIENT



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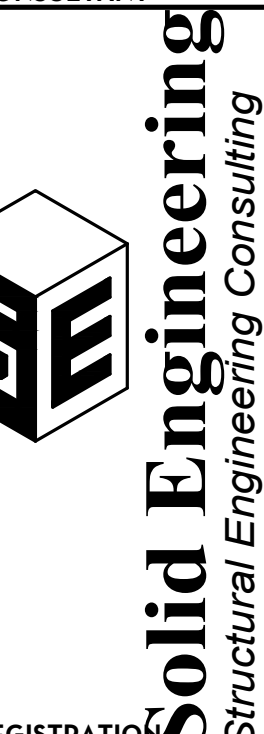
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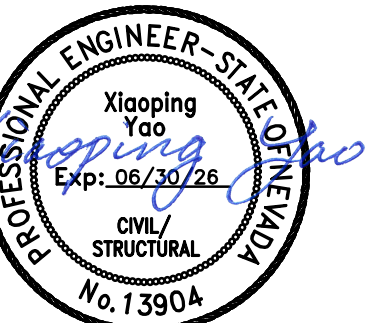
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FAMILY HEALTH

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1799 Mt. Mariah Dr.  
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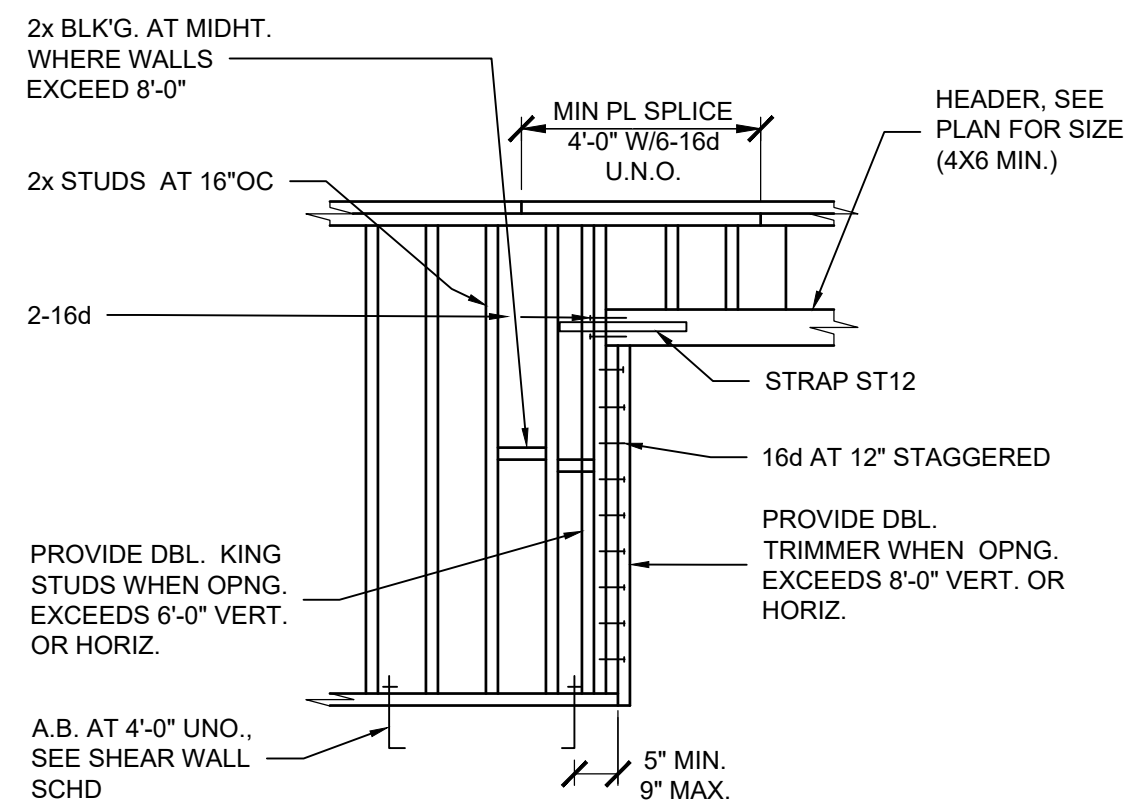
SHEET TITLE

DETAILS

SHEET NUMBER

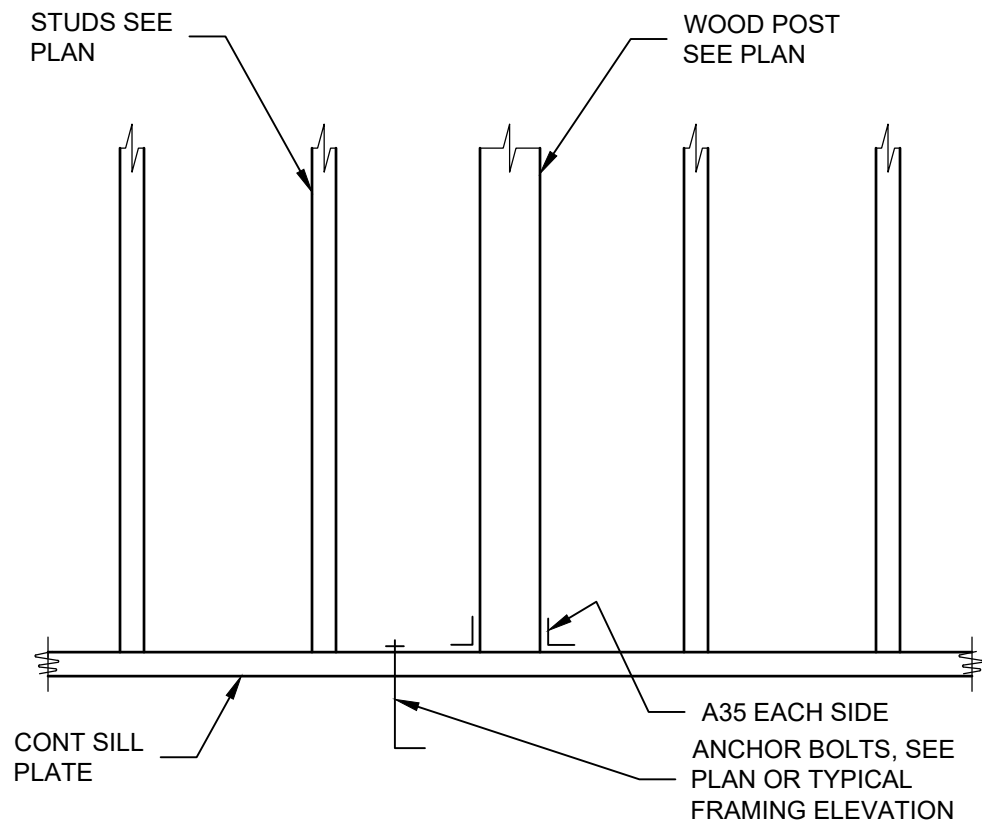
S-5.2





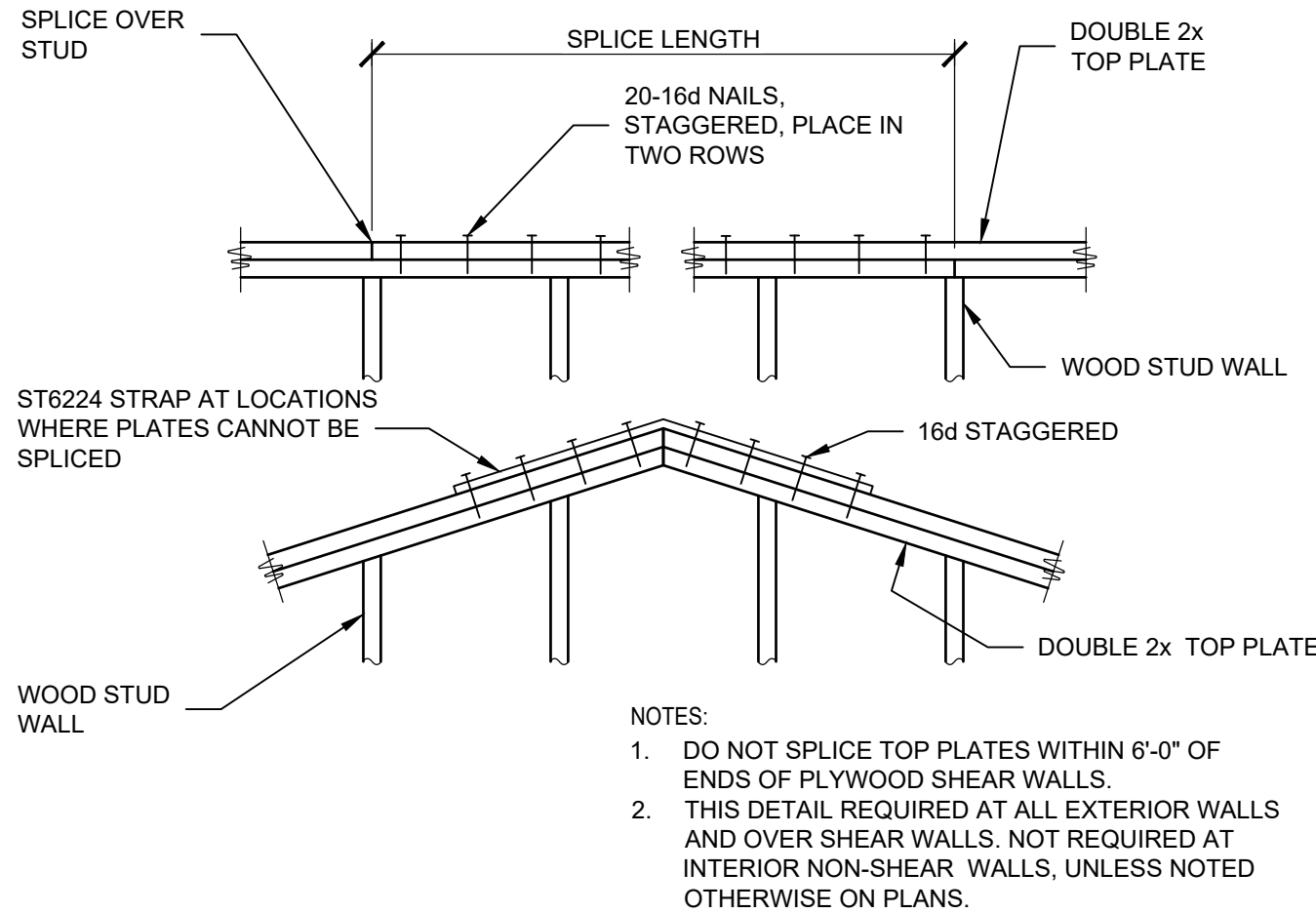
1 STUD WALL FRAMING

NTS



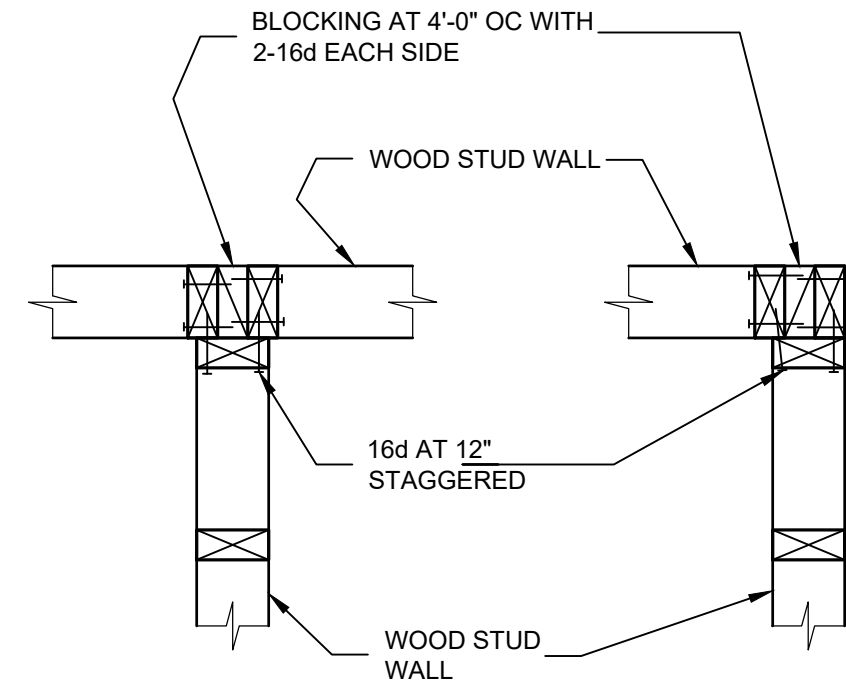
2 WOOD POST IN STUD WALL

NTS



3 TYPICAL TOP PLATE SPLICE

NTS

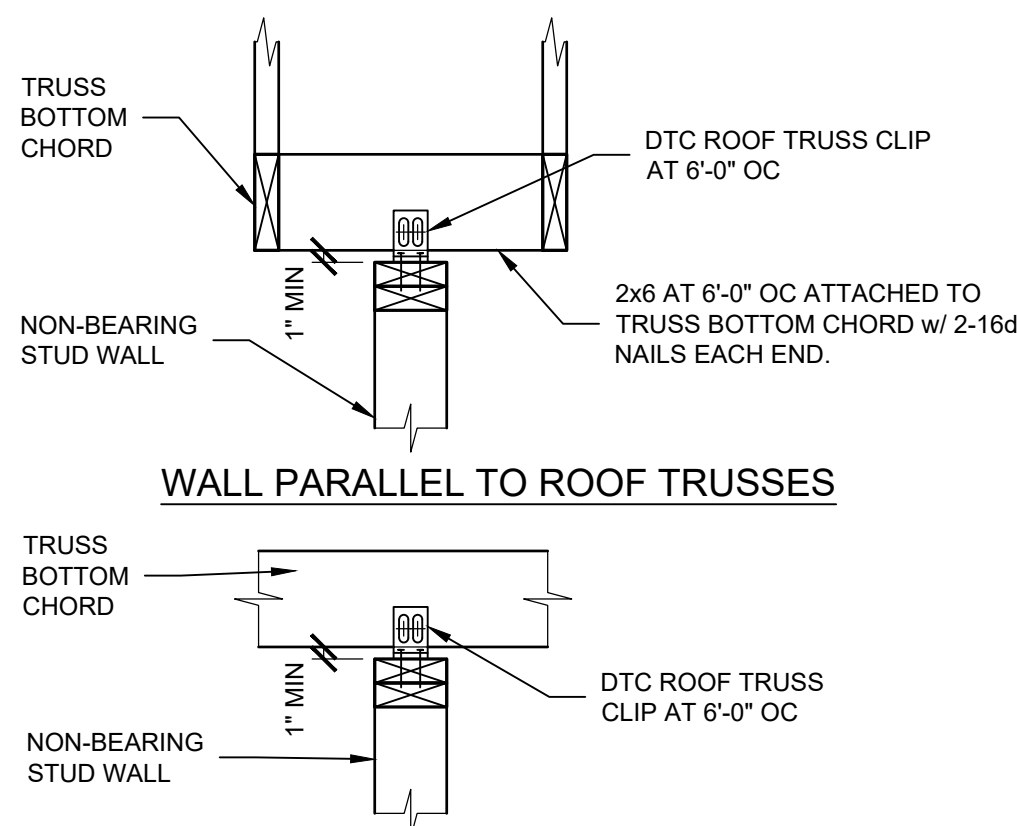


PLAN AT INTERSECTING WALL

PLAN AT CORNER

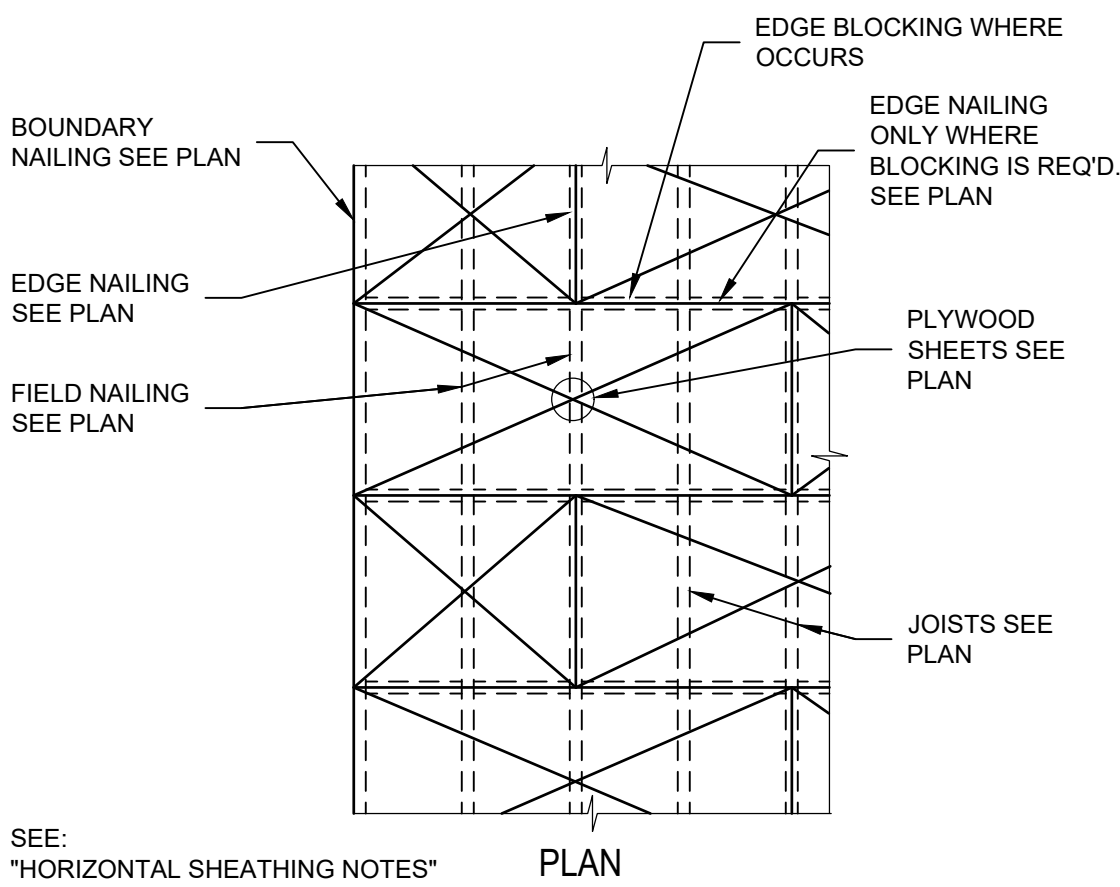
4 WALL INTERSECTIONS

NTS



5 NOT-BEARING WALL

NTS



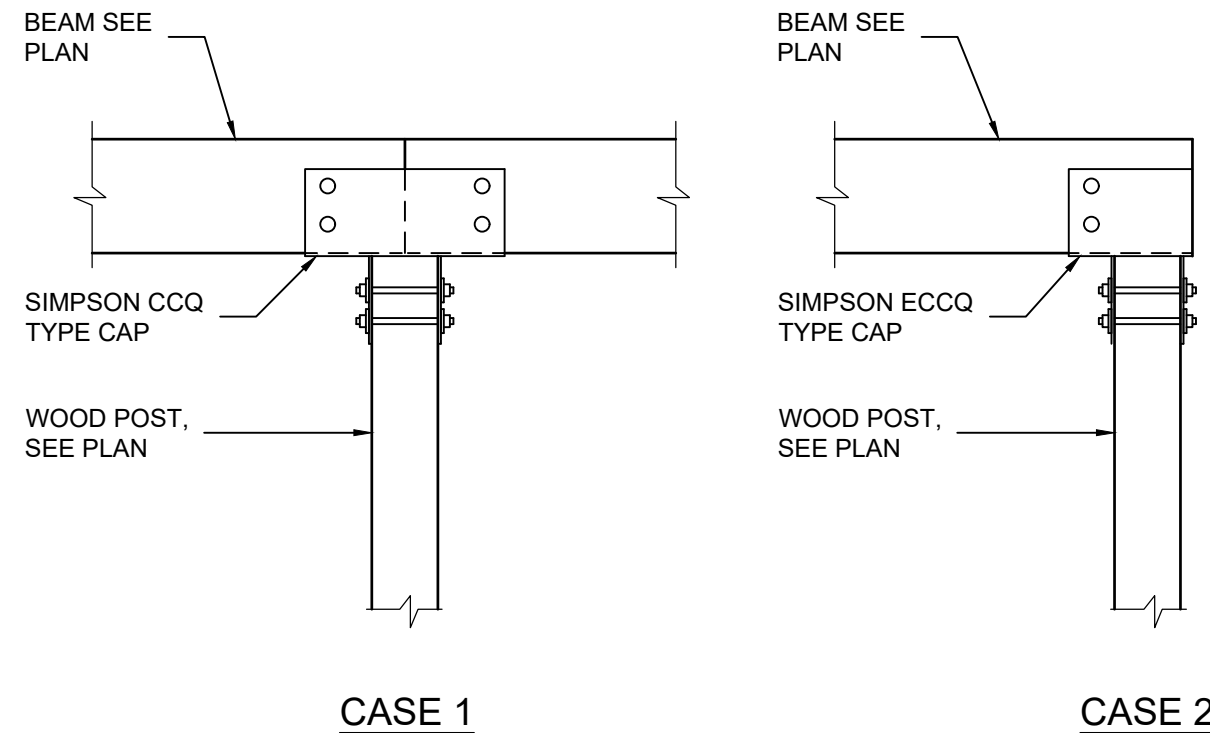
6 HORIZONTAL PLYWOOD SHEATHING

SCALE: 3/4" = 1'-0"

#### HORIZONTAL SHEATHING NOTES

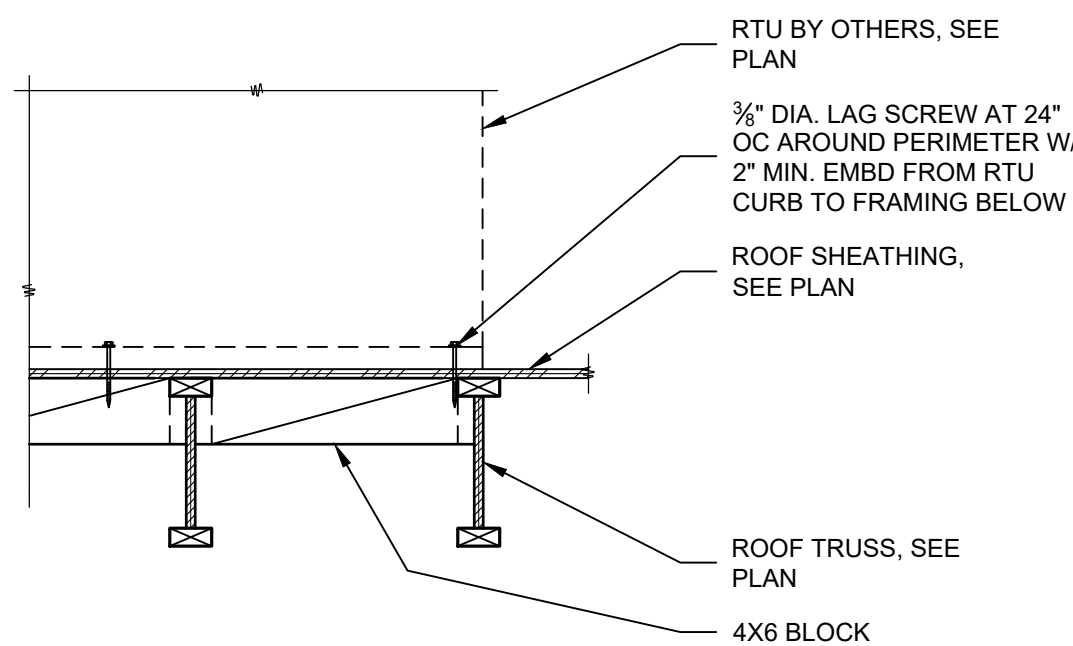
SEE PLAN FOR PLYWOOD AND NAILING DATA. UNLESS NOTED OTHERWISE ON THE PLAN, USE THE FOLLOWING:

- PLYWOOD:
  - INTERIOR FLOORS AND SUB-FLOORS: 3/4" APA STRUCTURAL I C-D INTERIOR, PANEL INDEX 48/24.
  - ROOFS: 5/8" APA RATED STRUCTURAL I C-C EXTERIOR PLYWOOD OR OSB, SPAN RATE 24/0.
  - STAGGER SHEETS AS SHOWN.
  - RUN FACE GRAIN PERPENDICULAR TO SUPPORTS.
  - MINIMUM SHEET SIZE SHALL BE 2'-0"x4'-0".
- NAILING:
  - USE COMMON NAILS. EQUIVALENT SPECIAL PLYWOOD NAILS MAY BE USED WITH THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
  - MINIMUM EDGE DISTANCE SHALL BE 3/8", AND NAILS SHALL NOT BE OVERDRIVEN THRU OUTER PLY. STAGGER NAILS AT ADJACENT PLYWOOD SHEET.
  - SHEET EDGES AND FLOOR AND ROOF BOUNDARIES: 8d AT 6" OC EDGES AT OPENINGS: 8d AT 4" OC
  - INTERMEDIATE:
    - FLOORS: 8d AT 10" OC
    - ROOFS: 8d AT 12" OC
  - WHERE EDGE BLOCKING MAY NOT BE REQUIRED AS MAY BE NOTED ON THE PLAN, PROVIDE PLY-CLIP AT THE CENTER OF EACH SPAN.



7 POST CAP DETAIL

NTS



8 TYPICAL RTU SUPPORT

SCALE: 3/4" = 1'-0"

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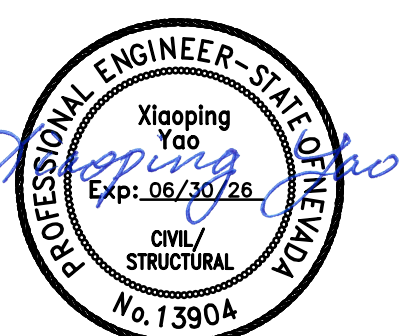
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Aug 06, 2024

DRAWING HISTORY

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

DETAILS

SHEET NUMBER

S-5.3



FILE NAME: M0.01 MECHANICAL COVER SHEET.DWG  
DATE STAMP: 7/30/2024 11:17 AM

GENERAL NOTES:

1. APPLICABLE CODES: ALL WORK SHALL CONFORM TO THE LATEST ADOPTED AND AMENDED LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO CITY OF LAS VEGAS, NEVADA ADOPTED AND AMENDED INCLUDING 2021 INTERNATIONAL BUILDING CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE, 2018 UNIFORM PLUMBING CODE, 2018 UNIFORM MECHANICAL CODE, 2017 NATIONAL ELECTRICAL CODE, 2018 INTERNATIONAL EXISTING BUILDING CODE AND ALL FEDERAL, STATE AND LOCAL REGULATIONS.
2. ALL WORK SHALL COMPLY TO THE LATEST EDITION OF THE INDUSTRY STANDARDS AND REGULATIONS INCLUDING BUT NOT LIMITED TO ANSI B9.1/ASHRAE 15, SAFETY CODE FOR MECHANICAL REFRIGERATION; ASHRAE 62 - VENTILATION STANDARD; SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
3. ALL WORK SHALL BE PROVIDED IN COORDINATION WITH OWNER, TENANT AND LANDLORD STANDARDS AND REQUIREMENT.
4. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON DESIGN PLANS/SPECIFICATIONS WITH CODE REQUIREMENTS, THE MORE STRINGENT STANDARD SHALL PREVAIL.
5. SUBMISSION OF BID IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH THE CONTRACTOR WILL BE OBLIGATED TO OPERATE UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
6. GENERAL NOTES, SPECIFICATIONS, AND OTHER DRAWINGS SHALL BE REVIEWED FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. REPORT TO THE ARCHITECT, ENGINEER, OR OWNER ANY DISCREPANCIES BEFORE SUBMISSION OF BID.
7. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
8. PROVIDE COMPLETE AND OPERATING SYSTEMS AS SPECIFIED AND INDICATED ON DRAWINGS. TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL" WHEN USED HEREIN.
9. PRIOR TO COMMENCEMENT OF WORK AND ORDERING OF EQUIPMENT, CONTRACTOR SHALL PREPARE AND SUBMIT PROPOSED MATERIALS AND EQUIPMENT FOR ARCHITECTURAL AND ENGINEERING REVIEW.
10. WORK SHALL BE GUARANTEED AGAINST DEFECTIVE WORKMANSHIP OR MATERIALS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE PROJECT OR AS REQUIRED BY THE CONTRACT WHICHEVER IS LONGER. WARRANTY WORK SHALL BE COMPLETED AT NO EXTRA CHARGE TO THE OWNERS. FURNISH MANUFACTURER'S PRODUCT WARRANTY CERTIFICATES IN A BINDER.
11. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, FIRE SPRINKLER PIPING, ETC.
12. MATERIALS AND EQUIPMENT SHALL BE NEW AND GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE. MATERIALS AND EQUIPMENT SHALL BE AS SCHEDULED OR APPROVED EQUAL, MEETING THE REQUIREMENTS OF THE SPECIFICATION. MATERIALS AND EQUIPMENT SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDER RELEASE.
13. RECORD DRAWINGS, OPERATIONS MANUALS AND MAINTENANCE MANUALS SHALL BE SUBMITTED AS REQUIRED BY ARCHITECT UPON COMPLETION OF CONSTRUCTION.
14. PENETRATIONS OF FIRE RATED WALLS OR FLOORS BY PIPE OR DUCT SHALL BE SEALED BY A FIRE STOPPING SYSTEM UL LISTED FOR THE APPLICATION. INSTALL PENETRATION SEAL MATERIALS IN ACCORDANCE WITH PRINTED INSTRUCTIONS OF THE UL FIRE RESISTANCE DIRECTORY AND MANUFACTURERS INSTRUCTIONS. FIRES TOPPING SYSTEM SHALL BE EQUAL TO 3M FIRE BARRIER. FIRE STOPPING MATERIAL SHALL BE CAULK OR PUTTY TYPE.
15. MECHANICAL EQUIPMENT SHALL BE SECURED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE SECTIONS OF THE UNIFORM BUILDING CODE AND UNIFORM MECHANICAL CODE.
16. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND/OR SITE VISITS AND MAY NOT REFLECT THE EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
17. THE ARRANGEMENT OF EQUIPMENT AND PIPING SHOWN ON THE DRAWINGS IS BASED UPON INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF DESIGN AND IS NOT INTENDED TO SHOW EXACT DIMENSIONS PARTICULAR TO A SPECIFIC MANUFACTURER. THE DRAWINGS ARE, IN PART, DIAGRAMMATIC AND SOME FEATURES OF THE ILLUSTRATED EQUIPMENT INSTALLATION MAY REQUIRE REVISION TO MEET ACTUAL EQUIPMENT INSTALLATION REQUIREMENTS, STRUCTURAL SUPPORTS, FOUNDATIONS, CONNECTED PIPING, VALVES, PIPE SUPPORTS AND ELECTRICAL CONDUIT SPECIFIED MAY HAVE TO BE ALTERED OR ADDITIONAL ITEMS REQUIRED TO ACCOMMODATE THE EQUIPMENT PROVIDED. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH REVISIONS, ALTERATIONS, AND/OR ADDITIONS.
18. MECHANICAL EQUIPMENT SHALL BE IDENTIFIED WITH NAMEPLATES. COLOR CODING OF NAMEPLATES AND IDENTIFICATION INFORMATION SHALL BE COORDINATED WITH THE OWNER.
19. ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS PRIOR TO ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
20. DUCTWORK, PIPING AND EQUIPMENT SHALL BE PROVIDED WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH THE SMACNA SEISMIC RESTRAINT MANUAL - GUIDELINES FOR MECHANICAL SYSTEMS.
21. GALVANIZED SHEET METAL SHALL BE PROVIDED FOR ALL HVAC DUCT SYSTEMS (EXCEPT WHERE ANOTHER MATERIAL IS INDICATED), AND SHALL BE CONSTRUCTED/SUPPORTED/INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE UNIFORM MECHANICAL CODE AND THE LATEST SMACNA STANDARDS.
22. THE OWNER SHALL BE NOTIFIED IN WRITING OF SHUTDOWN OF UTILITIES REQUIRED BY THE EXECUTION OF THIS CONTRACT.
23. CONTRACTOR SHALL DOCUMENT AND RELAY ANY MAJOR DEVIATIONS FROM THE DESIGN DOCUMENTS, AND ATTAIN APPROVAL FROM THE OWNER/DESIGN TEAM BEFORE PROCEEDING.
24. CONTRACTOR SHALL PROVIDE AS-BUILT COPIES INDICATING ALL CHANGES/DEVIATIONS MADE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE COMPLETED AS-BUILT DRAWINGS IN THE LATEST VERSION OF AUTOCAD.
25. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY CONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
26. CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
27. ELECTRICAL: CONFORM TO THE REQUIREMENTS OF ANSI, C1, AND NATIONAL ELECTRICAL CODE AND PER EQUIPMENT MANUFACTURER'S WIRING AND CONTROL DIAGRAMS FOR THE EQUIPMENT FURNISHED.
28. FIELD INVESTIGATIONS: VISIT THE WORK-SITE AND BECOME FULLY AWARE OF ALL EXISTING CONDITIONS. INVESTIGATE THE CONTRACT DOCUMENTS AND MAKE PROPER PROVISIONS TO AVOID INTERFERENCES OR CONSTRUCTION DELAYS. DETERMINE THE EXACT ROUTE OF EACH DUCT AND PIPE.
29. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE SITE MAKING FIELD MEASUREMENTS AND SHOP DRAWINGS NECESSARY FOR FABRICATION OR ERECTION OF HVAC AND PIPING SYSTEMS. MAKE ALLOWANCE FOR BEAMS, PIPES, AND OTHER OBSTRUCTIONS IN BUILDING CONSTRUCTION. CHECK DRAWINGS SHOWING WORK OF OTHER TRADES AND CONSULT WITH THE OWNER'S REPRESENTATIVE IN THE EVENT OF POTENTIAL INTERFERENCE. SHOP DRAWINGS SHALL BE MINIMUM 1/4"=1'-0" SCALE, INDICATING FITTINGS, SIZES, WEIGHTS, AND CONFIGURATIONS AND SUBMITTED IN THE LATEST VERSION OF AUTOCAD TO THE ENGINEER FOR REVIEW.
30. WORK CONDITIONS: FIELD VERIFY CONDITIONS AND DIMENSIONS FOR INTERFERENCES. INSTALLED WORK SHALL BE PROTECTED DURING CONSTRUCTION AND CLEANED FOR FINAL INSPECTION. TOUCH-UP PAINT ALL

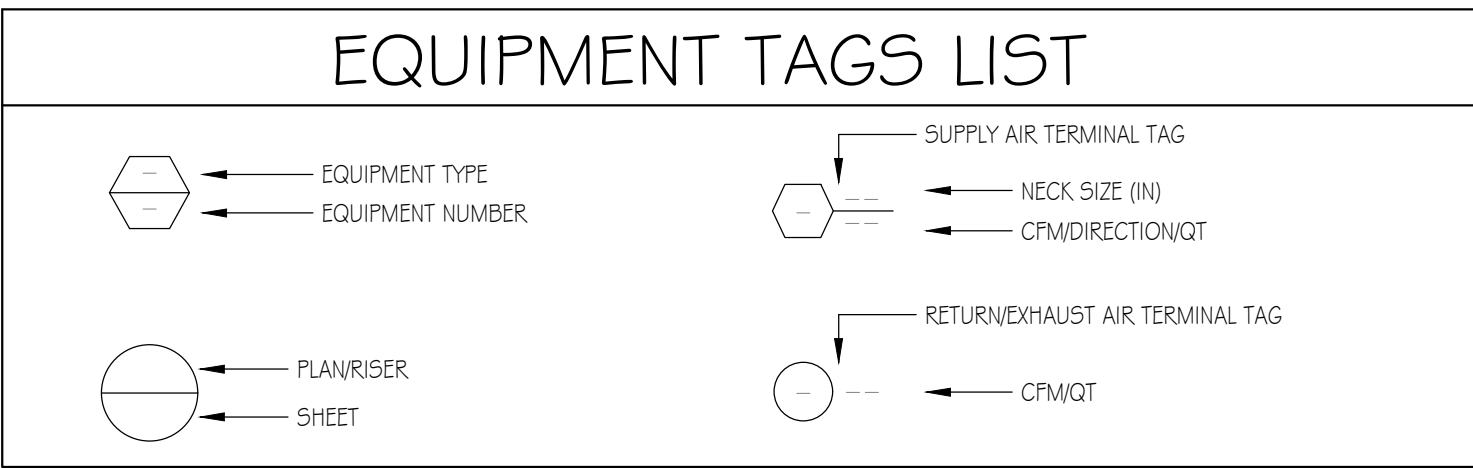
- RAWD TRADES OF METAL EXPOSED TO WEATHER. COORDINATE WITH OTHER TRADES FOR PIPE SLEEVES AND INSTALLATION OF EQUIPMENT SUPPORTS.
- BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, AND CHARACTERISTICS OF ALL UTILITIES.
- REQUIREMENTS: PERFORM WORK USING PERSONNEL SKILLED IN THE TRADE INVOLVED. PROVIDE COMPETENT SUPERVISION. FURNISH NEW EQUIPMENT, MATERIALS AND ACCESSORIES BEARING THE MANUFACTURER'S IDENTIFICATION AND CONFORMING TO THE RECOGNIZED COMMERCIAL STANDARDS.
- CONTRACTOR SHALL FURNISH LABOR, MATERIALS, EQUIPMENT, APPURTENANCES, AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL ALL HVAC SYSTEMS OR RELATED COMPONENTS AS INDICATED ON PLANS AND SPECIFIED HEREIN.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR FIXTURES, DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT IN ORDER TO COMPLY WITH SEISMIC REQUIREMENTS AS OUTLINED BY THE LATEST EDITION(S) OF THE BUILDING CODE, SMACNA INSTALLATION STANDARDS, AND ALL RELATED LOCAL ORDINANCES.
- PIPING AND DUCT SUPPORTS SHALL BE AS FOLLOWS-ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
- EQUIPMENT INSTALLATION: INSTALL EQUIPMENT IN THE SPACE ALLOTTED WITH SUFFICIENT CLEARANCE FOR PROPER OPERATION AND MAINTENANCE AND WITH SUFFICIENT HEAD CLEARANCE ACCORDING TO THE BUILDING CODE. WHERE EQUIPMENT DIFFERS IN ARRANGEMENT OR CONNECTIONS FROM THOSE SHOWN, PROVIDE ALL REQUIRED CHANGES IN PIPING, SUPPORTS AND APPURTENANCES.
- CONTRACTOR SHALL NOT BORE, NOTCH, CUT, OR PENETRATE INTO A STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE OR STRUCTURAL ENGINEER OF RECORD.
- PRIOR TO OCCUPANCY ALL HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH AABC OR NEBB REQUIREMENTS.
- ALL FLEXIBLE DUCTWORK SHALL NOT EXCEED 6'-0" IN LENGTH TO RESPECTIVE AIR DEVICE, SHALL BE INSTALLED PER MANUFACTURER'S LISTING STRETCHED AS TIGHT AS POSSIBLE, AND SHALL MEET THE REQUIREMENTS OF NFPA 90A SECTION 4.3.2 IN CONSTRUCTION AND INSTALLATION.
- MANUAL VOLUME DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS.
- AIR DISTRIBUTION SYSTEMS SHALL NOT BE OPERATED WITHOUT A FILTER IN PLACE. CONTRACTOR SHALL REPLACE ALL FILTERS WITH A COMPLETE AND NEW SET PRIOR TO BUILDING OCCUPANCY.
- COVER ALL OPENINGS IN EQUIPMENT, PIPING, DUCTS, AND OTHER SYSTEMS TO EXCLUDE ENTRANCE OF DIRT OR OTHER FOREIGN MATERIAL DURING CONSTRUCTION.
- UNLESS NOTED OTHERWISE, FLEXIBLE DUCTS TO TERMINAL UNITS, DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME SIZE AS NECK.
- LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAXIMUM HORIZONTAL RUN WITH ONLY ONE 90° BEND. SECURE FLEXIBLE DUCTWORK WITH SCREWS AND DRAWBANDS. CONSIDER INSTALLATION TO MEET SMACNA GUIDELINES.
- DUCT SIZES INDICATED ARE NET INSIDE CLEAR DIMENSIONS.
- PROVIDE GEAR OPERATED CEILING OPERATORS FOR INACCESSIBLE MANUAL VOLUME DAMPERS. OPERATOR SHALL BE EQUAL TO YOUNG REGULATOR WITH CEILING ESCUTCHEON AND COVER PLATE. COORDINATE EXACT LOCATION OF COVER PLATE WITH ARCHITECT.
- ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNER ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
- THE MECHANICAL DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES, REGS, AIR DIFFUSERS AND ACCESS PANELS IN CEILING AND FOR DIMENSIONED LENGTHS OF LINEAR DIFFUSERS. COORDINATE DIFFUSER BORDER TYPES WITH CEILING TYPE SCHEDULED IN ARCHITECTURAL REFLECTED CEILING PLANS.
- TURNING VANE RUNNERS SHALL HAVE A VANE IN EVERY SLOT IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS AND SMACNA DUCT CONSTRUCTION STANDARDS. TURNING VANE SHALL BE SINGLE THICKNESS TYPE.
- COORDINATE AND VERIFY ACTUAL APPROVED EQUIPMENT DIMENSIONS PRIOR TO POURING CONCRETE EQUIPMENT PADS. COORDINATE EQUIPMENT PAD DIMENSIONS WITH VIBRATION ISOLATION REQUIREMENT.
- PROVIDE ACCESS DOOR IN DUCTWORK UPSTREAM OF EACH DUCT-MOUNTED COIL, HUMIDIFIER, SMOKE DETECTOR, FIRE DAMPER, SMOKE DAMPER, AND COMBINATION FIRE/SMOKE DAMPER.
- REFER TO EQUIPMENT DRAWINGS, SPECIFICATIONS AND SHOP DRAWINGS FOR CONNECTION REQUIREMENTS TO EQUIPMENT.
- MANUAL VOLUME DAMPERS AND VALVES ON INSULATED DUCTWORK AND PIPING SHALL HAVE EXTENDED STEMS TO ALLOW FOR THE INSULATION THICKNESS. PROVIDE MINIMUM 1'2" LONG RED RIBBON LOCATOR ON VOLUME DAMPER AND VALVE HANDLES.
- EQUIPMENT START-UP SHALL BE BY MANUFACTURER'S AUTHORIZED REPRESENTATIVE.
- INSTALL THERMOSTATS AND HUMIDISTATS AT MOUNTING HEIGHT 4'-0" AFF IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE EXACT LOCATION IN FIELD WITH ARCHITECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN DURING THE REMOVAL OF DESIGNATED SYSTEMS. COORDINATE REPAIR REQUIREMENTS WITH ARCHITECT.
- CONTRACTOR TO PROVIDE ACCESS DOORS (PANELS) FOR EQUIPMENT INCLUDING BUT NOT LIMITED TO HEAT PUMPS, ERVS, FANS, DAMPERS AND PUMPS. ACCESS DOORS TO MATCH ADJACENT FINISH. VERIFY WITH ARCHITECT FOR COLOR.
- THERMOSTATS IN PUBLIC AREAS TO HAVE LOCK-OUT CAPABILITIES OR LOCKABLE THERMOSTAT COVER WITH GUARD INSTALLED 48" ABOVE FINISH FLOOR. COORDINATE WITH ARCHITECT/ OWNER PRIOR TO INSTALLATION.
- FIRE AND LIFE SAFETY SYSTEMS ARE NOT PART OF THIS PACKAGE AND TO BE DESIGNED AND INSTALLED BY DESIGN-BUILD CONTRACTOR.
- WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING DEMOLITION, COORDINATE THE SHUTDOWN TIME AND DURATION WITH OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.
- AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. DAMAGES CAUSED DURING WORK SHALL BE REPAIRED AT NO EXTRA COST TO THE OWNER.
- PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
- VERTICAL DUCTWORK NSIDE THE ROOF CURB AND DUCT CHASES AND SHAFTS, MUST BE SUPPORTED ACCORDANCE TO INDUSTRY STANDARDS AND SMACNA GUIDELINES.
- INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE

- OWNER. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.
  - INSTALL DUCTWORK IN PARALLEL TO BUILDING STRUCTURE AND TO BUILDING COLUMN LINES (GRID LINES) UNLESS OTHERWISE SHOWN OR NOTED.
  - OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT AND DUCTWORK SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY STRUCTURAL DESIGN.
  - COORDINATE THE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT. REQUIRED ACCESS PANELS/ DOORS ARE NOT SHOWN ON THIS SET OF DRAWINGS AND SHALL BE PROVIDED BY CONTRACTOR AS REQUIRED.
  - COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
  - LOCATE AND SET THERMOSTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
  - COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
  - PROVIDE A MANUAL BALANCING DAMPER IN EACH DUCT TAKEOFF FROM SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.
  - PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES. PROVIDE WITH INTEGRAL MANUAL BALANCING DAMPER AND LOCKING QUADRANT WHERE INDICATED ON PLANS.
  - BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
  - REFER TO SPECIFICATIONS FOR DUCTWORK INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
  - FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING.
  - PROVIDE EQUIPMENT VENTS AND FLUES PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS. KEEP PENETRATIONS THROUGH ROOF A MINIMUM OF 1'-0" FROM HVAC EQUIPMENT FRESH AIR INLETS AND 2'-0" FROM ROOF PARAPETS.
  - PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.
  - FIELD VERIFY THAT THE EXISTING EQUIPMENT INCLUDING ACCESSORIES BEING REUSED FOR THIS PROJECT IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT ANY DEFICIENCIES TO THE OWNER OR ARCHITECT. SUBMIT TO THE OWNER AND ARCHITECT A WRITTEN REPORT DESCRIBING TESTS PERFORMED TO VERIFY OPERATION AND RESULTS OF THE TESTS.
  - CLEAN EXISTING EQUIPMENT AND EQUIPMENT COMPONENTS BEING REUSED FOR THIS PROJECT. PROVIDE NEW FILTERS FOR EXISTING AIR HANDLING EQUIPMENT PRIOR TO STARTUP OF EQUIPMENT. NEW FILTERS SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT AND EQUAL IN PERFORMANCE TO THE EXISTING FILTERS AT NEW CONDITION UNLESS OTHERWISE NOTED.
  - CLEAN THE EXTERIOR OF EXISTING COILS TO BE REUSED FOR THIS PROJECT. VACUUM BRUSH THE COIL IN THE DIRECTION OF THE FINS AND CLEAN THE COILS WITH COIL CLEANING FLUID. COMB ANY FINS BENT TO PROVIDE A STRAIGHT SURFACE FOR AIRFLOW.
  - LUBRICATE EXISTING EQUIPMENT BEING REUSED FOR THIS PROJECT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. OBTAIN INSTRUCTIONS FROM MANUFACTURER IF THEY ARE NOT AVAILABLE AT THE SITE.
  - FULLY CHARGE EXISTING REFRIGERANT SYSTEMS BEING REUSED FOR THIS PROJECT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. CHARGE SYSTEMS WITH NEW REFRIGERANT MATCHING EXISTING.
- GENERAL DEMOLITION NOTES:
- ALL DEMOLITION SHALL BE COORDINATED WITH ARCHITECTURAL PLANS. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
  - BEFORE SUBMISSION OF BID, VISIT THE JOB SITE AND BECOME FAMILIAR WITH THE PROJECTS EXISTING CONDITIONS. GENERAL NOTES, SPECIFICATIONS, AND OTHER DRAWINGS SHALL BE REVIEWED FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. REPORT TO THE ARCHITECT, ENGINEER OR WONER ANY DISCREPANCIES BEFORE SUBMISSION OF BID.
  - REMOVED ITEMS SHOWN HEAVY-DASHED LINES AND/OR NOTED TO BE REMOVED.
  - AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. DAMAGES CAUSED DURING WORK SHALL BE REPAIRED AT NO EXTRA COST TO THE OWNER.
  - WHERE MECHANICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION, REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
  - REMOVE HANGERS AND SUPPORTS WHERE DUCTWORK, PIPING AND/OR EQUIPMENT ARE REMOVED AND THE EXISTING HANGERS AND SUPPORTS ARE NOT USED FOR THE NEW INSTALLATION.
  - INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT THE EQUIPMENT IS OPERATING PROPERLY. REPORT TO THE OWNER ANY DAMAGE AND/OR MALFUNCTIONING COMPONENT.
  - WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING DEMOLITION, COORDINATE THE SHUTDOWN TIME AND DURATION WITH OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.
  - CEASE WORK AND IMMEDIATELY NOTIFY OWNER IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED DURING THE PERFORMANCE OF THE WORK.
  - REMOVAL, RECOVERY, RECYCLING AND DISPOSAL OF THE REFRIGERANT CONTAINED IN ANY EQUIPMENT TO BE REMOVED SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT EPA GUIDELINES.
- CONSTRUCTION COORDINATION NOTES:
- G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT AND OWNER OF ANY DISCREPANCIES.
  - RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION, UNLESS OTHERWISE APPROVED BY OWNER.
  - G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
  - THE CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL EMERGENCY ENTRANCES AND SHALL NOT BLOCK ACCESS.
  - CONTRACTOR SHALL INFORM THE OWNER PRIOR TO ANY DEMOLITION AND SHALL SCHEDULE SUCH DEMOLITION IN A MANNER NOT TO INTERFERE WITH THE OWNER'S OPERATIONS AS OUTLINED IN AN AGREED PHASING PLAN AND SCHEDULE. ANY LOUD NOISE TYPE ACTIVITIES (I.E. CONCRETE SAW CUTTING, JACK HAMMERING) WILL NEED TO OCCUR OUTSIDE OF REGULAR BUSINESS HOURS.

MECHANICAL SYMBOLS LIST		
SYMBOL	DESCRIPTION	
	EXISTING DUCTWORK OR EQUIPMENT TO REMAIN	
	EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED	
	NEW DUCT (1ST DIMENSION INDICATES TOP SHOWN, INSIDE CLEAR DIMENSIONS).	
	DUCTWORK WITH SOUND LINING (INSIDE CLEAR DIMENSIONS)	
	DUCT WORK WITH ECCENTRIC TRANSITION	
	RECTANGULAR/SQUARE DUCT TO ROUND DUCT SIZE TRANSITION	
	FLEXIBLE DUCT CONNECTOR	
	SMOKE DAMPER	
	MOTORIZED DAMPER	
	COMBINATION FIRE SMOKE DAMPER	
	FIRE DAMPER	
	SUPPLY AIR DUCT TO RISE UP	
	SUPPLY AIR DUCT TO DROP DOWN	
	RETURN AIR DUCT TO RISE UP	
	RETURN AIR DUCT TO DROP DOWN	
	EXHAUST DUCT TO RISE UP	
	EXHAUST DUCT TO DROP DOWN	
	SUPPLY AIR DEVICE	
	RETURN AIR DEVICE	
	RELIEF AIR OR EXHAUST AIR DEVICE	
	ROUND DUCT TO RISE UP	
	ROUND DUCT TO DROP DOWN	
	FLEXIBLE ROUND DUCT	
	PARKING GARAGE CO SENSOR	
	ROOM WALL MOUNTED WIRED DIGITAL THERMOSTAT	
	SPACE OF RETURN DUCT MOUNTED WIRED TEMPERATURE SENSOR	
	SPACE CO2 SENSOR	
	UNDER CUT DOOR, 1/2" CLEAR	
	REVISION NUMBER	
	KEYNOTE	
	POINT OF CONNECTION TO EXISTING	
	DOOR LOUVER, COORDINATE WITH ARCH	

Sheet List Table	
Sheet Number	Sheet Title
M0.01	MECHANICAL COVER SHEET
M0.02	MECHANICAL SCHEDULES
M0.03	MECHANICAL DETAILS
M0.04	MECHANICAL SPECIFICATION
M0.05	MECHANICAL SPECIFICATION
M1.00	MECHANICAL GROUND FLOOR PLAN - NEW WORK
M2.00	MECHANICAL SECOND FLOOR PLAN - NEW WORK
M3.00	MECHANICAL ROOF PLAN
MD1.00	MECHANICAL GROUND FLOOR PLAN - DEMOLITION
MD3.00	MECHANICAL ROOF PLAN DEMOLITION

MECHANICAL ABBREVIATION LIST			
AABC	AMERICAN AIR BALANCE COUNCIL	LWT	LEAVING WATER TEMPERATURE
ACD	AUTOMATIC CONTRI DAMPER		
ACU (AC)	AIR CONDITIONING UNIT	MA	MIXED AIR TEMPERATURE
AD	ACCESS DOOR	MAX	MAXIMUM
ADA	AMERICANS WITH DISABILITIES ACT	MBH	1 000 BRITISH THERMAL UNITS PER HOUR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MCC	MOTOR CONTROL CENTER
AP	ACCESS PANEL	MERV	MINIMUM EFFICIENCY REPORTING VALUE
APD	AIR PRESSURE DROP		
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MIN	MINIMUM
		MOCP	MAXIMUM OVER CURRENT PROTECTION
AUTO	AUTOMATIC		
		NA	NOT APPLICABLE
B	BOILER	NC	NORMALLY CLOSED (SPRING RETURN)
BAS	BUILDING AUTOMATION SYSTEM	NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
BHP	BRAKE HORSE POWER		
BMS	BUILDING MANAGEMENT SYSTEM	NEC	NATIONAL ELECTRICAL CODE
BOD	BOTTOM OF DUCT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BOS	BOTTOM OF STEEL		
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
		NO	NORMALLY OPEN (SPRING RETURN)
		NPS	NOMINAL PIPE SIZE
CC	COOLING COIL	NPSHA	NET POSITIVE SUCTION HEAD
CD	CEILING DIFFUSER		
CFM	CUBIC FEET PER MINUTE		
CO	CARBON MONOXIDE	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
CO2	CARBON DIOXIDE	NPT	NATIONAL PIPE THREAD
COND	CONDENSER		
COP	COEFFICIENT OF PERFORMANCE	OED	OPEN END DUCT
CT	COOLING TOWER	OFCl	OWNER FURNISHED CONTRACTOR INSTALLED
CU	CONDENSING UNIT		
CV	CONSTANT VOLUME	PD	PRESSURE DROP
CWP	CONDENSER WATER PUMP	PH	PHASE
		PPM	PARTS PER MILLION
DB	DRY BULB TEMPERATURE	PRV	PRESSURE REDUCING VALVE
DC	DIRECT CURRENT	PSI	POUND PER SQUARE INCH
DDC	DIRECT DIGITAL CONTROL	PSIA	POUND PER SQUARE INCH ABSOLUTE
DIA (Ø)	DIAMETER	PSIG	POUND PER SQUARE INCH GAUGE
DIFF	DIFFUSER		
DP	DIFFERENTIAL PRESSURE	REFR	REFRIGERANT
DX	DIRECT EXPANSION		
		RPM	REVOLUTIONS PER MINUTE
E	EXISTING	RTU	ROOFTOP UNIT
EAT	ENTERING AIR TEMPERATURE		
EER	ENERGY EFFICIENCY RATIO	SD	SMOKE DAMPER
EFF	EXHAUST FAN	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY	SF	SUPPLY FAN
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	SH	STATIC HEAD
		SOV	SHUT-OFF VALVE
EMI	ELECTROMAGNETIC INTERFERENCE	SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE	SQ.FT.	SQUARE FEET
ET	EXPANSION TANK		
EWT	ENTERING WATER TEMPERATURE	T24	TITLE 24
EXH	EXHAUST	TAB	TESTING AND BALANCING
		TD	TEMPERATURE DIFFERENCE
#F	DEGREES FAHRENHEIT	TDH	TOTAL DEVELOPED HEAD
FLA	FULL LOAD AMPS	TEL	TOTAL EQUIVLENT LENGTH
FLM	FLOW METER	TEMP (T)	TEMPERATURE
FFM	FEET PER MINUTE	TF	TRANSFER FAN
FFS	FEET PER SECOND	TSP	TOTAL STATIC PRESSURE
FT	FEET	TU	TERMINAL UNIT
		TYP	TYPICAL
GA	GAUGE		
GAL	GALLONS	UNO	UNLESS NOTED OTHERWISE
GBS	GALVANIZED BIRD SCREEN		
GPM	GALLONS PER MINUTE	V	VOLT
		VD	VOLUME DAMPER (MANUAL)
HOA	HAND OFF AUTO	VEL	VELOCITY
HP	HORSE POWER	VFD	VARIABLE FREQUENCY DRIVE
HR	HOUR		
HWP	HOT WATER PUMP	W	WATT, WIDTH
HX	HEAT EXCHANGER	WB	WET BULB TEMPERATURE
HZ	HERTZ	WC	WATER COLUMN
		WG	WATER GAUGE
		WP	WATER PRESSURE
IN	INCH	WPD	WATER PRESSURE DROP
KW	KILOWATT	WT	WEIGHT
L	LENGTH		
LAT	LEAVING AIR TEMPERATURE		
LBS	POUNDS		



CLIENT



[T]  
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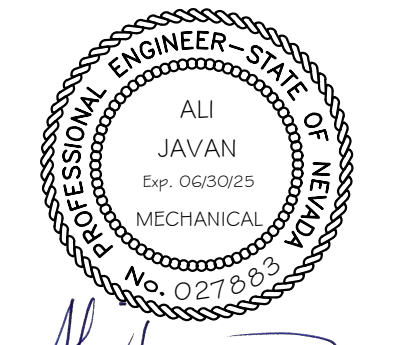
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REGISTRATION



DRAWING HISTORY



MINIMUM OUTSIDE AIR CALCULATION PER 2018 UMC CHAPTER 4, TABLE 402.1							
SPACE NAME	AREA (SF)	OCCUPANT LOAD DENSITY (PEOPLE/1000SF)	PEOPLE (3)	PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	AREA OUTDOOR AIR RATE (CFM/SF)	MINIMUM OUTDOOR AIRFLOW (CFM)	SERVING UNIT
LOBBY EXPANSION 110	170	10	2	5.0	0.06	25	FC-4A
NEW EXAM ROOM1-111	105	3	3	7.5	0.12	44	FC-4A
NEW MA STATION 115	150	10	2	5.0	0.18	46	FC-4A
TOTAL OSA						115	PROVIDED 120CFM
SUPPLIES 114	48	2	2	5.0	0.06	22	FC-4B
NEW EXAM ROOM2 112	102	3	3	7.5	0.12	43	FC-4B
NEW EXAM ROOM3-113	103	3	2	7.5	0.12	44	FC-4B
CORRIDOR	85	2	1	5	0.06	13	FC-4B
NEW EXAM ROOM5-117	115	3	2	7.5	0.12	45	FC-4B
NEW EXAM ROOM4-116	115	3	3	7.5	0.12	45	FC-4B
TOTAL OSA						213	PROVIDED 220CFM
PHARMACY 101	420	10	5	5	0.18	126	FC-11A
TOTAL OSA						126	PROVIDED 130CFM
PHARMACY 101	300	10	3	5	0.18	86	FC-11B
PHARMACY PATIENT AREA	150	10	1.5	5	0.18	46	FC-11B
TOTAL OSA						133	PROVIDED 140CFM
STAIR 102	82	0	0	5	0.06	6	FC-11C
CLOSET 200	48	2	0.1	7.5	0.06	10	FC-11C
OFFICE 201	150	5	0.75	7.5	0.06	18	FC-11C
TOTAL OSA						34	PROVIDED 40CFM
OFFICE1-211	138	5	1	5	0.06	17	RT-17
OFFICE2-212	138	5	1	5	0.06	17	RT-17
OFFICE3-213	138	5	1	5	0.06	17	RT-17
WAITING-210	500	30	15	5	0.06	131	RT-17
TOTAL OSA						181	PROVIDED 200CFM
BALANCE EXISTING OUTSIDE AIR ERV UNIT DUCTWORK TO PROVIDE FRESH AIR QUANTITIES AS SHOWN PLANS.							

MULTI ZONE HEAT PUMP SPLIT SCHEDULE																												
INDOOR UNIT MARK	ASSOCIATED OUTDOOR UNIT	SERVICE	MANUFACTURER OR APPROVED EQUAL	INDOOR MODEL	MOUNTING	NOMINAL COOLING CAPACITY(BTU/H)	WEIGHT(LBS)	COOLING COIL				HEATING COIL	INDOOR ELECTRICAL				OUTDOOR MODEL	SEER2	EER	HSPF	Ambient	OUTDOOR ELECTRICAL				WEIGHT (LBS)	CONTROL METHOD	NOTES
								NOMINAL CFM	TH (MBH)	SH (MBH)	REFR TYPE	HTG CAP (MBH)	V/PH	MCA	MOCP	DISC TYPE						V/PH	MCA	MOCP	DISC TYPE			
FC-11A	HP-11	PHARMACY	TRANE/MITSUBISHI	TPVFYP024AM141A	CEILING DUCTED	24000	120	735	24000.0	17400.0	R410A	27000.0	208/1	3	15	DIV. 26	NTXMSM60A182BA	15.5	10.4	8.6	115	208/1	45	80	DIV. 26	320	WIRED T-STAT	SEE BELOW
FC-11B		PHARMACY	TRANE/MITSUBISHI	TPVFYP024AM141A	CEILING DUCTED	24000	120	735	24000.0	17400.0	R410A	27000.0	208/2	3	15	DIV. 26												
FC-11C		PHARMACY	TRANE/MITSUBISHI	TPVFYP012AM141A	CEILING DUCTED	12000	120	400	12000.0	9600.0	R410A	13500.0	208/3	3	15	DIV. 26												
FC-4A	HP-4	EXAM ROOMS	TRANE/MITSUBISHI	TPVFYP024AM141A	CEILING DUCTED	24000	120	735	24000.0	17400.0	R410A	27000.0	208/4	3	15	DIV. 26	NTXMSM48A182BA	14.7	10.4	8.3	115	208/1	36	64	DIV. 26	290	WIRED T-STAT	SEE BELOW
FC-4B		EXAM ROOMS	TRANE/MITSUBISHI	TPVFYP024AM141A	CEILING DUCTED	24000	120	735	24000.0	17400.0	R410A	27000.0	208/5	3	15	DIV. 26												

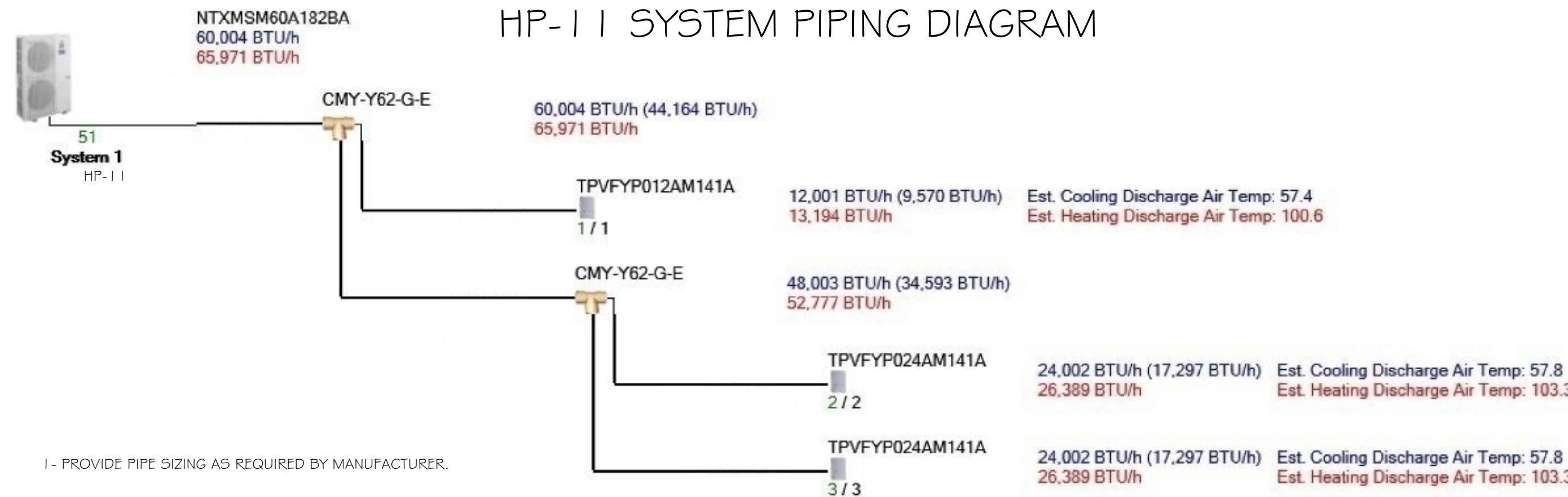
PROVIDE Y FITTINGS AND ALL REQUIRED PIPING DEVICES AND ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER FOR COMPLETE AND SUCCESSFUL INSTALLATION OF AN OPERATING SYSTEM  
PROVIDE POWER AND CONTROLS WIRING PER MANUFACTURER'S WIRING DIAGRAMS.  
PROVIDE PROGRAMMABLE THERMOSTAT FOR EACH INDOOR UNIT EQUAL 3H/2C touchscreen Trane BAYSTAT152A - X13511538-01

## ROOFTOP PACKAGED GAS / ELECTRIC UNIT SCHEDULE

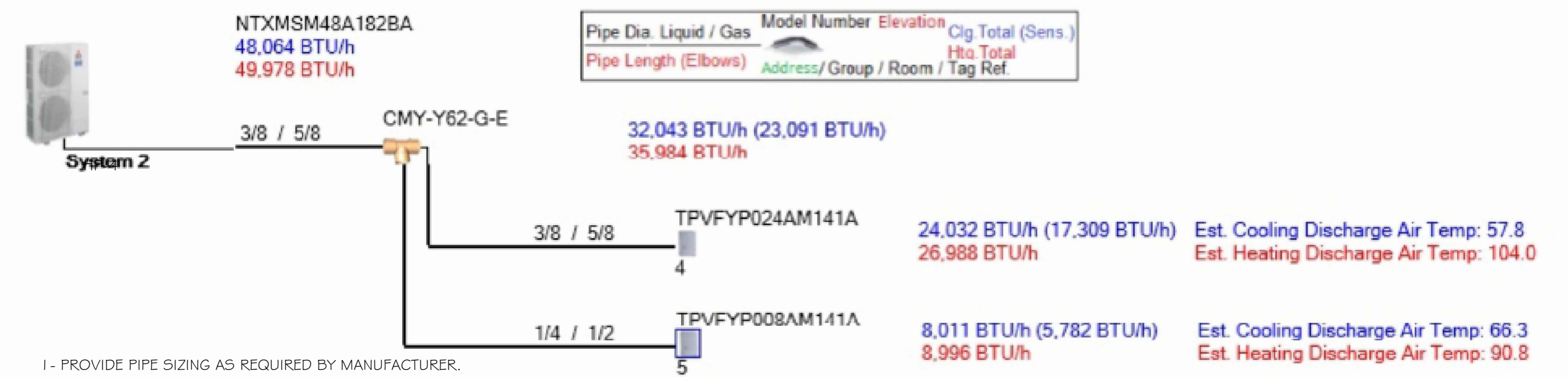
Unit Tags	MFG	MODEL	Fan Performance		Cooling Coil Performance				Gas Heating Performance			Cooling Energy		Electrical Data			Weight	Notes	
			CFM / OSA	ESP	Gross Cooling Capacity	Ambient DB	EAT DB/WB	LAT DB	LAT WB	EAT	LAT	Gas Input	EER	SEER2	MCA	MOCP			Voltage
			cfm	in H2O	MBh	F	F	F	F	F	F	Stage/MBH			A	A			lb
RT-17	TRANE	YSC048G3RLB	1600 / 100	0.5	41.4	115	84.38/67	60.45	58.87	65	100	2/80.0 - 56.0	12	14	26	35	208-230/60/3	750	SEE BELOW

## NOTES:

Bases of design is Trane packaged rooftop low heat unit with model, size, and configuration as indicated in schedule and on drawings  
Provide programmable Thermostat equal to 3H/2C touchscreen Trane BAYSTAT152A - X13511538-01  
Provide dry-bulb economizer with barometric relief damper  
Provide hail guards  
Provide factory-installed phase monitor  
Provide with roof curb  
Weight includes unit, curb HP-4



## HP-4 SYSTEM PIPING DIAGRAM



## GRILLE, REGISTER AND DIFFUSER SCHEDULE

FRAME SIZE(IN)	MANUFACTURER	SERVICE	MODEL	CONSTRUCTION	NECK SIZE (IN)	CFM	MOUNTING LOCATION	MAX. NG	MAX. PRESS. DRDP (IN. W.C.)	NOTES
12x12	TITUS	SUPPLY DIFFUSER	TMS SQUARE FULL FACE	ALUMINUM	CONNECTED DUCT	50-220	SURFACE MOUNTING	25	0.08	B,E,D,K,P
24x24	TITUS	SUPPLY DIFFUSER	TMS SQUARE FULL FACE	ALUMINUM	CONNECTED DUCT	75-750	LAY-IN MOUNTING	25	0.08	B,E,D,K,P
16	TITUS	SUPPLY DIFFUSER	OMNI ROUND FACE	ALUMINUM	ø	50-250	SURFACE MOUNTING	25	0.08	B,E,D,K,P
24x24	TITUS	RETURN/IDH GRILL	PFR PERFORATED FACE	ALUMINUM	CONNECTED DUCT	50-400	LAY-IN MOUNTING	25	0.08	B,E,D,K,P
12x12	TITUS	RETURN/IDH GRILL	PFR PERFORATED FACE	ALUMINUM	12x12	50-315	SURFACE MOUNTING	25	0.08	B,E,D,K,P

## GENERAL:

- MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.
  - COLOR TO BE WHITE UNLESS SPECIFIED DIFFERENT BY ARCHITECT. PAINT IF NECESSARY TO MATCH PER ARCHITECT.
  - PROVIDE SQUARE TO ROUND TRANSITION, WHERE APPLICABLE.
  - HARD DUCT CONNECTION AT HARD CEILING.
  - PAINT INSIDE OF RETURN PLENUM, SUPPLY BOOT FLAT BLACK.
- NOTES:
- NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
  - DOUBLE DEFLECTION BARS SHALL BE ADJUSTABLE.
  - FRAME TYPE TO MATCH CEILING CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN.
  - PROVIDE DIFFUSERS, LINEAR SLOTS, AND GRILLES WITH NO EXPOSED MOUNTING SCREWS.
  - SUPPLY PLENUMS SHALL BE FIELD FABRICATED BASED ON DETAIL. PROVIDE 1/4" CLOSED CELL INSULATION ON THE INTERIOR OF THE SUPPLY PLENUM.

[T]

[F]

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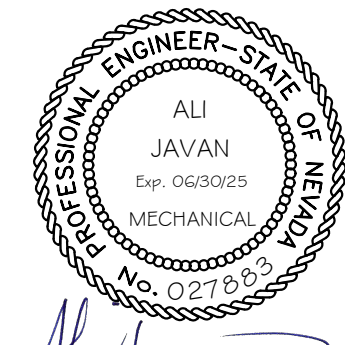
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REGISTRATION



DRAWING HISTORY

NO.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

MECHANICAL  
SCHEDULES

SHEET NUMBER

M0.02

M SHEET 2 OF 10







DIVISION 23: HEATING, VENTILATING, AND AIR  
CONDITIONING

I. GENERAL INSTRUCTIONS

A. GENERAL REQUIREMENTS

ALL REQUIREMENTS UNDER DIVISION 01 AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS APPLY TO THIS SECTION AND DIVISION, WHERE THE REQUIREMENTS OF THIS SECTION AND DIVISION EXCEED THOSE OF DIVISION 01. THIS SECTION AND DIVISION TAKE PRECEDENCE, BECOME THOROUGHLY FAMILIAR WITH ALL ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION, SECTION, OR BOTH, WORK REQUIRED UNDER THIS DIVISION INCLUDES ALL MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS, OR REASONABLY INFERRED TO BE NECESSARY TO FACILITATE THE FUNCTION OF EACH SYSTEM AS IMPLIED BY THE DESIGN AND THE EQUIPMENT SPECIFIED.

THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE COMPLEMENTARY, AND ANY PORTION OF WORK DESCRIBED IN ONE SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED.

DRAWINGS ARE GRAPHIC REPRESENTATIONS OF THE WORK UPON WHICH THE CONTRACT IS BASED. THEY SHOW THE MATERIALS AND THEIR RELATIONSHIP TO ONE ANOTHER, INCLUDING SIZES, SHAPES, LOCATIONS, AND CONNECTIONS. CONVEY THE SCOPE OF WORK, INDICATING THE INTENDED GENERAL ARRANGEMENT OF THE SYSTEMS WITHOUT SHOWING ALL OF THE EXACT DETAILS AS TO ELEVATIONS, OFFSETS, CONTROL LINES, AND OTHER INSTALLATION REQUIREMENTS. USE THE DRAWINGS AS A GUIDE WHEN LAYING OUT THE WORK AND TO VERIFY THAT MATERIALS AND EQUIPMENT WILL FIT INTO THE DESIGNATED SPACES, AND WHICH WHEN INSTALLED PER MANUFACTURERS' REQUIREMENTS, WILL ENSURE A COMPLETE, COORDINATED, SATISFACTORY, AND PROPERLY OPERATING SYSTEM.

B. DEFINITIONS

DIVISION: REFERENCES CONTAINED IN THIS SPECIFICATION FOLLOW THE NUMBERING SYSTEM DEFINED IN THE CONSTRUCTION SPECIFICATIONS MASTERFORMAT 2004 EDITION. DIVISION 01 SPECIFICATION DIVISIONS 01 THROUGH 13 PROVIDED WITH THIS PROJECT MAY REFERENCE THE CSI MASTERFORMAT 1995 EDITION, THE CORRESPONDING DIVISION REFERENCES BETWEEN THE 2004 EDITION AND 1995 EDITION ARE AS FOLLOWS:

2004 EDITION	1995
1. DIVISION 21 - FIRE SUPPRESSION	DIVISION 15
2. DIVISION 22 - PLUMBING	DIVISION 15
3. DIVISION 23 - HVAC	DIVISION 15
4. DIVISION 26 - ELECTRICAL	DIVISION 16
5. DIVISION 27 - COMMUNICATIONS	DIVISION 16
6. DIVISION 28 - ELECTRONIC SAFETY AND SECURITY	DIVISION 16

FURNISH: "TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS."

INSTALL: "TO PERFORM ALL OPERATIONS AT THE PROJECT SITE INCLUDING, BUT NOT LIMITED TO, THE ACTUAL UNLOADING, UNPACKING, ASSEMBLING, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, TESTING, COMMISSIONING, STARTING UP AND SIMILAR OPERATIONS, COMPLETE, AND READY FOR THE INTENDED USE."

PROVIDE: "TO FURNISH AND INSTALL."

FURNISHED BY OWNER (OR OWNER-FURNISHED) OR FURNISHED BY OTHERS: "AN ITEM FURNISHED BY THE OWNER OR UNDER OTHER DIVISIONS OR CONTRACTS, AND INSTALLED UNDER THE REQUIREMENTS OF THIS DIVISION, COMPLETE AND READY FOR INTENDED USE, INCLUDING ALL ITEMS AND MATERIALS INCIDENTAL TO THE WORK NECESSARY FOR PROPER INSTALLATION AND OPERATION, INCLUDE THE INSTALLATION UNDER THE WARRANTY REQUIRED BY THIS DIVISION."

ENGINEER: WHERE REFERENCED IN THIS DIVISION, "ENGINEER" IS THE ENGINEER OF RECORD AND THE DESIGN PROFESSIONAL FOR THE WORK UNDER THIS DIVISION, AND IS A CONSULTANT TO, AND AN AUTHORIZED REPRESENTATIVE OF THE ARCHITECT, AS DEFINED IN THE GENERAL AND/OR SUPPLEMENTARY CONDITIONS. WHEN USED IN THIS DIVISION, ENGINEER MEANS INCREASED INVOLVEMENT BY AND OBLIGATIONS TO THE ENGINEER, IN ADDITION TO INVOLVEMENT BY AND OBLIGATIONS TO THE ARCHITECT.

AHJ: THE LOCAL CODE AND/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER THE WORK.

NRTL: NATIONALLY RECOGNIZED TESTING LABORATORY, AS DEFINED AND LISTED BY OSHA IN 29 CFR 1910.7 (E.G., UL, ETL, CSA), AND ACCEPTABLE TO THE AHJ OVER THE OTHER COUNTRY, NATIONALLY RECOGNIZED TESTING LABORATORIES AND STANDARDS LISTED ARE USED ONLY TO REPRESENT THE CHARACTERISTICS REQUIRED AND ARE NOT INTENDED TO RESTRICT THE USE OF OTHER ITEMS THAT ARE ACCEPTABLE TO THE AHJ AND STANDARDS THAT MEET THE SPECIFIED CRITERIA.

SUBSTITUTION: CHANGES IN PRODUCTS, MATERIALS, EQUIPMENT, AND METHODS OF CONSTRUCTION FROM THOSE REQUIRED BY THE CONTRACT DOCUMENTS AND PROPOSED BY CONTRACTOR. SUBSTITUTIONS INCLUDE VALUE ENGINEERING PROPOSALS.

- SUBSTITUTIONS FOR CAUSE: CHANGES PROPOSED BY CONTRACTOR THAT ARE REQUIRED DUE TO CHANGED PROJECT CONDITIONS, SUCH AS UNAVAILABILITY OF PRODUCT, REGULATORY CHANGES, OR UNAVAILABILITY OF REQUIRED WARRANTY TERMS.
- SUBSTITUTIONS FOR CONVENIENCE: CHANGES PROPOSED BY CONTRACTOR OR OWNER THAT ARE NOT REQUIRED IN ORDER TO MEET OTHER PROJECT REQUIREMENTS BUT MAY OFFER ADVANTAGE TO CONTRACTOR OR OWNER.

THE TERMS "APPROVED EQUAL," "EQUIVALENT," OR "EQUAL" ARE USED SYNONYMOUSLY AND SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO THE ENGINEER AS EQUIVALENT TO THE ITEM OR MANUFACTURER SPECIFIED." THE TERM "APPROVED" SHALL MEAN LABELED, LISTED, OR BOTH, BY AN NRTL, AND ACCEPTABLE TO THE AHJ OVER THIS PROJECT.

C. PREBID SITE VISIT

PRIOR TO SUBMITTING BID, VISIT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

D. MATERIAL AND WORKMANSHIP

PROVIDE NEW MATERIAL, EQUIPMENT, AND APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN, OF BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE, AND FREE FROM DEFECTS. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURERS' INSTALLATION INSTRUCTIONS. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT

NECESSARILY INTENDED TO DESIGNATE THE REQUIRED TRIM, WRITTEN DESCRIPTIONS OF THE TRIM GOVERN MODEL NUMBERS.

PIPE, PIPE FITTINGS, PIPE SPECIALTIES AND VALVES SHALL BE MANUFACTURED IN PLANTS LOCATED IN THE UNITED STATES OR CERTIFIED TO MEET THE SPECIFIED ASTM AND ANSI STANDARDS.

WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND WORKMANLIKE APPEARANCE WHEN COMPLETED. THE SATISFACTION OF THE ARCHITECT AND ENGINEER, WORKMANSHIP SHALL BE THE FINEST POSSIBLE BY EXPERIENCED MECHANICS. INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES AND LAWS.

THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, NOISE LEVEL, ETC. ABNORMAL NOISE CAUSED BY RATTLING EQUIPMENT, PIPING, DUCTS, AIR DEVICES AND/ OR SEAKS IN ROTATING COMPONENTS SHALL NOT BE ACCEPTABLE. MATERIALS AND EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY AND RESIDENTIAL GRADE EQUIPMENT SHALL NOT BE ACCEPTED UNLESS OTHERWISE INDICATED.

REMOVE FROM THE PREMISES WASTE MATERIAL PRESENT AS A RESULT OF WORK, INCLUDING CARTONS, CRATING, PAPER, STICKERS, AND/OR EXCAVATION MATERIAL NOT USED IN BACKFILLING, ETC. CLEAN EQUIPMENT INSTALLED UNDER THIS CONTRACT TO PRESENT A NEAT AND CLEAN INSTALLATION AT THE TERMINATION OF THE WORK.

REPAIR OR REPLACE PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT TO THE SATISFACTION OF AUTHORITIES AND REGULATIONS HAVING JURISDICTION. PROVIDE ALL SAFETY LIGHTS, GUARDS, AND WARNING SIGNS REQUIRED FOR THE PERFORMANCE OF THE WORK AND FOR THE SAFETY OF THE PUBLIC.

E. MANUFACTURERS

IN OTHER ARTICLES WHERE LISTS OF MANUFACTURERS ARE INTRODUCED, SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE MANUFACTURERS SPECIFIED.

WHERE A LIST IS PROVIDED, MANUFACTURERS ARE LISTED ALPHABETICALLY AND NOT IN ACCORDANCE WITH ANY RANKING OR PREFERENCE.

WHERE MANUFACTURERS ARE NOT LISTED, PROVIDE PRODUCTS SUBJECT TO COMPLIANCE WITH REQUIREMENTS FROM MANUFACTURERS THAT HAVE BEEN ACTIVELY INVOLVED IN MANUFACTURING THE SPECIFIED PRODUCT FOR NO LESS THAN 5 YEARS.

F. COORDINATION

COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS ARE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS OTHERWISE INDICATED, THE GENERAL CONTRACTOR SHALL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR THE INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. THE CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH INFORMATION WHERE CHASES AND OPENINGS ARE REQUIRED. CONTRACTOR SHALL KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT AND SHALL EXECUTE WORK IN A MANNER AS TO NOT INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

G. ORDINANCES AND CODES

WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MINIMUM, BE IN CONFORMANCE WITH THE NATIONAL, STATE AND LOCAL CODES HAVING JURISDICTION, EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL AHJ, INCLUDING ANY AMENDMENTS AS SET FORTH BY THE FOLLOWING:

- NATIONAL ELECTRICAL CODE (NEC)
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- UNDERWRITERS LABORATORIES (UL)
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
- AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS (ASHRAE)
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
- ALL APPLICABLE.

WHERE THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THE REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE, WHERE CONFLICTS BETWEEN VARIOUS CODES, ORDINANCES, RULES, AND REGULATIONS EXIST, COMPLY WITH THE MOST STRINGENT.

PROMPTLY BRING ALL CONFLICTS OBSERVED BETWEEN CODES, ORDINANCES, RULES, REGULATIONS, REFERENCED STANDARDS, AND THESE DOCUMENTS TO THE ATTENTION OF THE ARCHITECT AND ENGINEER FOR FINAL RESOLUTION. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY VIOLATION OF THE LAW.

PROCURE AND PAY FOR PERMITS AND LICENSES REQUIRED FOR THE WORK AND/OR THE WORK HEREIN DESCRIBED, WHERE REQUIRED, OBTAIN, PAY FOR, AND FURNISH CERTIFICATES OF INSPECTION TO OWNER.

H. PROTECTION OF EQUIPMENT AND MATERIALS

STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE. FOR MATERIALS AND EQUIPMENT SUSCEPTIBLE TO CHANGING WEATHER CONDITIONS, DAMPNESS, OR TEMPERATURE VARIATIONS, STORE INSIDE IN CONDITIONED SPACES. FOR MATERIALS AND EQUIPMENT NOT SUSCEPTIBLE TO THESE CONDITIONS, COVER WITH WATERPROOF, TEAR-RESISTANT, HEAVY TARP OR POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DUST, DIRT, PAINT, WATER, OR PHYSICAL DAMAGE. REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION. DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. EQUIPMENT AND MATERIAL DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REJECTED AND CONTRACTOR SHALL FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND AT HIS OWN EXPENSE.

KEEP PREMISES BROOM CLEAN OF FOREIGN MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT. PIPING, EQUIPMENT, ETC., SHALL HAVE A NEAT AND CLEAN APPEARANCE AT THE TERMINATION OF THE WORK. REMOVE DEBRIS FROM CEILING/RETURN AIR PLenum, INCLUDING DUST.

PLUG, SEAL, OR CAP OPEN ENDS OF DUCTWORK AND PIPING

SYSTEMS WHILE STORED AND INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS. REMOVE TEMPORARY PROTECTION PRIOR TO STARTING EQUIPMENT AND TURNING THE SYSTEM OVER TO THE OWNER.

I. SUBSTITUTIONS

MATERIALS, PRODUCTS, EQUIPMENT, AND SYSTEMS DESCRIBED IN THE BIDDING DOCUMENTS ESTABLISH A STANDARD OF REQUIRED FUNCTION, DIMENSION, APPEARANCE AND QUALITY TO BE MET BY THE PROPOSED SUBSTITUTION. THE BASE BID SHALL INCLUDE ONLY THE PRODUCTS FROM MANUFACTURERS SPECIFICALLY NAMED IN THE DRAWINGS AND SPECIFICATIONS. TO REQUEST A SUBSTITUTION, REQUEST THE SUBSTITUTION REQUEST FORM FROM THE ARCHITECT OR ENGINEER, COMPLETE AND SEND THE SUBSTITUTION REQUEST FORM FOR EACH MATERIAL, PRODUCT, EQUIPMENT, OR SYSTEM THAT IS PROPOSED TO BE SUBSTITUTED. THE BURDEN OF PROOF OF THE MERIT OF THE PROPOSED SUBSTITUTION IS UPON THE PROPOSER.

UNLESS STATED OTHERWISE IN WRITING TO THE ENGINEER BY THE CONTRACTOR, CONTRACTOR WARRANTS TO THE ENGINEER, ARCHITECT, AND OWNER THE FOLLOWING:

- PROPOSED SUBSTITUTION HAS BEEN FULLY INVESTIGATED AND DETERMINED TO MEET OR EXCEED THE SPECIFIED WORK IN ALL RESPECTS UNLESS STATED OTHERWISE IN THE SUBSTITUTION REQUEST.
- PROPOSED SUBSTITUTION IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND WILL PRODUCE INDICATED RESULTS, INCLUDING FUNCTIONAL CLEARANCES, MAINTENANCE SERVICE, AND SOURCING OF REPLACEMENT PARTS.
- PROPOSED SUBSTITUTION HAS RECEIVED NECESSARY APPROVALS OF AUTHORITIES HAVING JURISDICTION. SAME WARRANTY WILL BE FURNISHED FOR PROPOSED SUBSTITUTION AS FOR SPECIFIED WORK.
- IF ACCEPTED SUBSTITUTION FAILS TO PERFORM AS REQUIRED, CONTRACTOR SHALL REPLACE SUBSTITUTE MATERIAL OR SYSTEM WITH THAT ORIGINALLY SPECIFIED AND BEAR COSTS INCURRED THEREBY.
- COORDINATION, INSTALLATION AND CHANGES IN THE WORK AS NECESSARY FOR ACCEPTED SUBSTITUTION WILL BE COMPLETE IN ALL RESPECTS.

NO SUBSTITUTIONS WILL BE CONSIDERED UNLESS THE SUBSTITUTION REQUEST FORM IS COMPLETED AND ATTACHED WITH THE APPROPRIATE SUBSTITUTION DOCUMENTATION. NO SUBSTITUTION WILL BE CONSIDERED PRIOR TO RECEIPT OF BIDS UNLESS WRITTEN REQUEST FOR APPROVAL TO BID HAS BEEN RECEIVED BY THE ENGINEER AT LEAST TEN (10) CALENDAR DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS.

IF THE PROPOSED SUBSTITUTION IS APPROVED PRIOR TO RECEIPT OF BIDS, SUCH APPROVAL WILL BE STATED IN AN ADDENDUM. BIDDERS SHALL NOT RELY UPON APPROVALS MADE IN ANY OTHER MANNER. VERBAL APPROVAL WILL NOT BE GIVEN. NO SUBSTITUTION WILL BE CONSIDERED AFTER THE CONTRACT IS AWARDED UNLESS SPECIFICALLY PROVIDED IN THE CONTRACT DOCUMENTS.

J. SUBMITTALS

ASSEMBLE AND SUBMIT FOR REVIEW SHOP DRAWINGS, MATERIAL LISTS, MANUFACTURER PRODUCT LITERATURE FOR EQUIPMENT TO BE FURNISHED, AND ITEMS REQUIRING COORDINATION BETWEEN CONTRACTORS UNDER THIS CONTRACT. PROVIDE SUBMITTALS IN IDENTIFICATION ACRONYM AS USED ON THE DRAWINGS, AND THE CONTRACTOR'S STAMP. THE STAMP SHALL CERTIFY THAT THE SUBMITTAL HAS BEEN CHECKED BY THE CONTRACTOR, COMPLIES WITH THE DRAWINGS AND SPECIFICATIONS, AND IS COORDINATED WITH OTHER TRADES. MANUFACTURER PRODUCT LITERATURE SHALL INCLUDE SHOP DRAWINGS, EXCEPT WHERE ABOVE LAY-OUT SHEETS, SAMPLES AND OTHER SUBMITTALS REQUIRED BY THIS DIVISION, HIGHLIGHT, MARK, LIST, OR INDICATE THE MATERIALS, PERFORMANCE CRITERIA, AND ACCESSORIES THAT ARE BEING PROPOSED. GENERAL SUBJECT CATALOG DATA NOT SPECIFICALLY NOTED TO BE PART OF THE SPECIFIED PRODUCT WILL BE RETURNED WITHOUT REVIEW.

SEPARATE SUBMITTALS ACCORDING TO INDIVIDUAL SPECIFICATION SECTIONS. ILLEGIBLE SUBMITTALS WILL BE REJECTED AND RETURNED WITHOUT REVIEW. CATALOG DATA SHALL BE PROPERLY IDENTIFIED AND INDICATED, EACH ITEM BY A MODEL NUMBER SHALL BE CLEARLY MARKED AND ACCESSORIES IDENTIFIED. LABEL THE CATALOG DATA WITH THE EQUIPMENT IDENTIFICATION ACRONYM OR NUMBER AS USED ON THE DRAWINGS AND INCLUDE PERFORMANCE CURVES, CAPACITIES, SIZES, WEIGHTS, MATERIALS, FINISHES, WIRING DIAGRAMS, ELECTRICAL REQUIREMENTS AND DEVIATIONS FROM SPECIFIED EQUIPMENT OR MATERIALS, FOR EQUIPMENT WITH MOTOR STARTERS OR VFDs, INCLUDE SHORT CIRCUIT CURRENT RATINGS. MARK OUT INAPPLICABLE ITEMS. SHOP DRAWINGS WILL BE RETURNED WITHOUT REVIEW IF THE ABOVE MENTIONED REQUIREMENTS ARE NOT MET.

REFER TO DIVISION 01 FOR ACCEPTANCE OF ELECTRONIC SUBMITTALS FOR THIS PROJECT. FOR ELECTRONIC SUBMITTALS, CONTRACTOR SHALL SUBMIT THE DOCUMENTS IN ACCORDANCE WITH THE PROCEDURES SPECIFIED IN DIVISION 01. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER THAT THE SUBMITTALS HAVE BEEN POSTED. IF ELECTRONIC SUBMITTAL PROCEDURES ARE NOT DEFINED IN DIVISION 01, CONTRACTOR SHALL INCLUDE THE WEBSITE, USER NAME, AND PASSWORD INFORMATION NEEDED TO ACCESS THE SUBMITTALS. FOR SUBMITTALS SENT BY E-MAIL, CONTRACTOR SHALL COPY THE DESIGNATED REPRESENTATIVES OF THE ARCHITECT AND ENGINEER. CONTRACTOR SHALL ALLOW FOR THE ENGINEER REVIEW TIME AS SPECIFIED ABOVE IN THE CONSTRUCTION SCHEDULE.

CONTRACTOR SHALL SUBMIT ONLY THE DOCUMENTS REQUIRED TO PURCHASE THE MATERIALS AND/OR EQUIPMENT IN THE ELECTRONIC SUBMITTAL.

THE CHECKING AND SUBSEQUENT ACCEPTANCE OF SUBMITTALS BY THE ENGINEER AND/OR ARCHITECT SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS, ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, OR QUANTITIES, OMISSIONS OF COMPONENTS OR FITTINGS, COORDINATION OF ELECTRICAL REQUIREMENTS; AND NOT COORDINATING ITEMS WITH ACTUAL BUILDING CONDITIONS AND ADJACENT WORK. PROCEED WITH THE PREPARATION AND INSTALLATION OF EQUIPMENT NOT RECEIVED FROM THE OWNER. ACCOMPLISH WORK REQUIRING INTERRUPTION OF BUILDING OPERATION AT A TIME WHEN THE BUILDING IS NOT IN OPERATION AND ONLY WITH WRITTEN APPROVAL OF BUILDING OWNER AND/OR TENANT. COORDINATE INTERRUPTION OF BUILDING OPERATION WITH THE OWNER AND/OR TENANT A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF WORK.

FOR EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN, OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR OTHER MANUFACTURERS STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 01.

WARRANTIES SHALL INCLUDE LABOR AND MATERIAL, INCLUDING TRAVEL EXPENSES, MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER, ARCHITECT, AND ENGINEER.

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE CONTRACTOR SHOP DRAWINGS, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD AND ANY ACTIONS THE OWNER MUST TAKE IN ORDER TO MAINTAIN WARRANTY STATUS. EACH WARRANTY INSTRUMENT SHALL BE ADDRESSED TO THE OWNER AND STATE THE COMMENCEMENT DATE AND TERM.

2. GENERAL MATERIALS AND  
INSTALLATION

A. BUILDING OPERATION

COMPLY WITH THE SCHEDULE OF OPERATIONS AS OUTLINED IN THE ARCHITECTURAL PORTIONS OF THIS SPECIFICATION OR OBTAIN FROM THE OWNER. ACCOMPLISH WORK REQUIRING INTERRUPTION OF BUILDING OPERATION AT A TIME WHEN THE BUILDING IS NOT IN OPERATION AND ONLY WITH WRITTEN APPROVAL OF BUILDING OWNER AND/OR TENANT. COORDINATE INTERRUPTION OF BUILDING OPERATION WITH THE OWNER AND/OR TENANT A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF WORK.

B. COINCIDENTAL DAMAGE

REPAIR STREETS, SIDEWALKS, DRIVES, PAVING, WALLS, FINISHES, AND OTHER FACILITIES DAMAGED IN THE COURSE OF THE WORK. REPAIR MATERIALS SHALL MATCH EXISTING CONSTRUCTION. REPAIR WORK SHALL MEET ALL REQUIREMENTS OF THE OWNER, LOCAL AUTHORITIES HAVING JURISDICTION, AND MEET THE SATISFACTION OF THE ARCHITECT.

K. ELECTRONIC DRAWING FILES

IN PREPARATION OF SHOP DRAWINGS OR RECORD DRAWINGS,

CONTRACTOR MAY, AT THEIR OPTION, OBTAIN ELECTRONIC DRAWING FILES IN AUTOCAD OR DXF FORMAT ON DIRECT DOWNLOAD, AS DESIRED, FROM THE ENGINEER FOR A SHIPPING AND HANDLING FEE OF \$200 FOR A DRAWING SET UP TO 12 SHEETS AND \$15 PER SHEET FOR EACH ADDITIONAL SHEET. CONTACT THE ARCHITECT FOR WRITTEN AUTHORIZATION AND ENGINEER FOR THE NECESSARY RELEASE AGREEMENT FORM AND TO SPECIFY SHIPPING METHOD AND DRAWING FORMAT. IN ADDITION TO PAYMENT, THE WRITTEN AUTHORIZATION FROM THE ARCHITECT AND RELEASE AGREEMENT FORM FROM THE ENGINEER MUST BE RECEIVED BEFORE ELECTRONIC DRAWING FILES WILL BE SENT.

L. RECORD DRAWINGS (AS-BUILT DRAWINGS)

DURING PROGRESS OF THE WORK IN THIS DIVISION, CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE DURING THE INSTALLATION OF THE SYSTEM. UPON COMPLETION OF THE WORK, ACCURATELY TRANSFER ALL RECORD INFORMATION TO THREE IDENTICAL SETS OF THE APPROVED SHOP DRAWINGS. INSERT ONE SET INTO EACH COPY OF THE MANUAL DESCRIBED BELOW.

SEE DIVISION 01 AND GENERAL CONDITIONS FOR ADDITIONAL INFORMATION.

M. OPERATION AND MAINTENANCE INSTRUCTIONS

DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE A COMPLETE BROCHURE OF EQUIPMENT FURNISHED AND INSTALLED ON THIS PROJECT. INCLUDE OPERATIONAL AND MAINTENANCE INSTRUCTIONS, MANUFACTURERS' CATALOG SHEETS, WIRING DIAGRAMS, PARTS LISTS, APPROVED SUBMITTALS AND SHOP DRAWINGS, WARRANTS, AND OPERATING INSTRUCTIONS AS FURNISHED BY THE EQUIPMENT MANUFACTURER. INCLUDE AN INSIDE COVER SHEET THAT LISTS THE PROJECT NAME, DATE, OWNER, ARCHITECT, ENGINEER, GENERAL CONTRACTOR, SUB-CONTRACTOR, AND AN INDEX OF CONTENTS.

SUBMIT THREE COPIES OF LITERATURE BOUND IN APPROVED BINDERS WITH INDEX AND TABS SEPARATING EQUIPMENT TYPES TO THE ARCHITECT. FOR ENGINEERS REVIEW, AT THE TERMINATION OF THE WORK, PAPER CLIPS, STAPLES, RUBBER BANDS, LOOSE-LEAF BINDING, AND MAILING ENVELOPES ARE NOT CONSIDERED APPROVED BINDERS. FINAL APPROVAL OF SYSTEMS INSTALLED UNDER THIS CONTRACT SHALL BE WITHHELD UNTIL THIS EQUIPMENT BROCHURE IS RECEIVED AND DEEMED COMPLETE BY THE ARCHITECT AND ENGINEER. INSTRUCT WORKMEN TO SAVE REQUIRED LITERATURE SHIPPED WITH THE EQUIPMENT ITSELF FOR INCLUSION IN THIS BROCHURE.

INCLUDE RECORD DRAWINGS AS DESCRIBED ABOVE.

REFER TO DIVISION 01 FOR ACCEPTANCE OF ELECTRONIC MANUALS FOR THIS PROJECT. FOR ELECTRONIC MANUALS, REFER TO PARAGRAPH "SUBMITTALS" FOR REQUIREMENTS.

N. SPARE PARTS

FURNISH TO OWNER, WITH RECEIPT, THE FOLLOWING SPARE PARTS FOR THE EQUIPMENT FURNISHED FOR THIS PROJECT:

- ONE SET OF SPARE FILTERS OF EACH TYPE REQUIRED FOR EACH UNIT, IN ADDITION TO THE SPARE SET OF FILTERS, INSTALL NEW FILTERS PRIOR TO TESTING, ADJUSTING, AND BALANCING WORK AND BEFORE TURNING SYSTEM OVER TO OWNER.
- FURNISH ONE COMPLETE SET OF BELTS FOR EACH FAN.
- FURNISH THREE OPERATING KEYS FOR EACH TYPE OF AIR OUTLET AND INLET THAT REQUIRE THEM.

O. TRAINING

AT A TIME MUTUALLY AGREED UPON BETWEEN THE OWNER AND CONTRACTOR, PROVIDE THE SERVICES OF A FACTORY TRAINED AND AUTHORIZED REPRESENTATIVE TO TRAIN OWNERS DESIGNATED PERSONNEL ON THE OPERATION AND MAINTENANCE OF THE EQUIPMENT PROVIDED FOR THIS PROJECT.

PROVIDE TRAINING TO INCLUDE, BUT NOT BE LIMITED TO, AN OVERVIEW OF THE SYSTEM AND/OR EQUIPMENT AS IT RELATES TO THE FACILITY AS A WHOLE, OPERATION AND MAINTENANCE PROCEDURES AND SCHEDULES RELATED TO STARTUP AND SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE AND APPROPRIATE OPERATOR INTERVENTION; AND REVIEW OF DATA INCLUDED IN THE OPERATION AND MAINTENANCE MANUALS.

SUBMIT A CERTIFICATION LETTER TO THE ARCHITECT STATING THAT THE OWNERS DESIGNATED REPRESENTATIVE HAS BEEN TRAINED AS SPECIFIED HEREIN. LETTER SHALL INCLUDE DATE, TIME, ATTENDEES AND SUBJECT OF TRAINING. THE CONTRACTOR AND THE OWNERS REPRESENTATIVE SHALL SIGN THE CERTIFICATION LETTER INDICATING AGREEMENT THAT THE TRAINING HAS BEEN PROVIDED.

SCHEDULE TRAINING WITH OWNER WITH AT LEAST 7 DAYS ADVANCE NOTICE.

P. WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN, OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR OTHER MANUFACTURERS STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 01.

WARRANTIES SHALL INCLUDE LABOR AND MATERIAL, INCLUDING TRAVEL EXPENSES, MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER, ARCHITECT, AND ENGINEER.

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE CONTRACTOR SHOP DRAWINGS, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD AND ANY ACTIONS THE OWNER MUST TAKE IN ORDER TO MAINTAIN WARRANTY STATUS. EACH WARRANTY INSTRUMENT SHALL BE ADDRESSED TO THE OWNER AND STATE THE COMMENCEMENT DATE AND TERM.

2. GENERAL MATERIALS AND  
INSTALLATION

A. BUILDING OPERATION

COMPLY WITH THE SCHEDULE OF OPERATIONS AS OUTLINED IN THE ARCHITECTURAL PORTIONS OF THIS SPECIFICATION OR OBTAIN FROM THE OWNER. ACCOMPLISH WORK REQUIRING INTERRUPTION OF BUILDING OPERATION AT A TIME WHEN THE BUILDING IS NOT IN OPERATION AND ONLY WITH WRITTEN APPROVAL OF BUILDING OWNER AND/OR TENANT. COORDINATE INTERRUPTION OF BUILDING OPERATION WITH THE OWNER AND/OR TENANT A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF WORK.

B. COINCIDENTAL DAMAGE

REPAIR STREETS, SIDEWALKS, DRIVES, PAVING, WALLS, FINISHES, AND OTHER FACILITIES DAMAGED IN THE COURSE OF THE WORK. REPAIR MATERIALS SHALL MATCH EXISTING CONSTRUCTION. REPAIR WORK SHALL MEET ALL REQUIREMENTS OF THE OWNER, LOCAL AUTHORITIES HAVING JURISDICTION, AND MEET THE SATISFACTION OF THE ARCHITECT.

C. CUTTING AND PATCHING

CONFORM TO THE REQUIREMENTS IN DIVISION 01. CUT WALLS, FLOORS, CEILINGS, AND OTHER PORTIONS OF THE FACILITY AS REQUIRED TO INSTALL WORK UNDER THIS DIVISION. OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO CUTTING. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT AND STRUCTURAL ENGINEER. FOR POST-TENSIONED SLABS, X-RAY SURVEY AND CLOSELY COORDINATE ALL CORE DRILL LOCATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PERFORMING ANY WORK. OBTAIN APPROVAL FROM ARCHITECT AND STRUCTURAL ENGINEER FOR ALL CORE DRILLS AND PENETRATIONS AT LEAST FOUR DAYS PRIOR TO PERFORMING WORK. PENETRATIONS SHALL BE MADE AS SMALL AS POSSIBLE WHILE MAINTAINING REQUIRED CLEARANCES BETWEEN THE BUILDING ELEMENT PENETRATED AND THE SYSTEM COMPONENT. PATCH AROUND OPENINGS TO MATCH THE ADJACENT SURFACE INCLUDING FIRE RATINGS, IF APPLICABLE. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISFACTORY TO THE ARCHITECT.

D. ROUGH-IN

COORDINATE WITHOUT DELAY ALL ROUGHING-IN WITH OTHER DIVISIONS. CONCEAL PIPING, CONDUIT, AND ROUGH-IN EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN.

E. STRUCTURALSUPPORT SYSTEMS

STRUCTURAL STEEL USED FOR SUPPORT OF EQUIPMENT, DUCTWORK AND PIPING SHALL BE NEW, CLEAN, AND CONFORM TO ASTM DESIGNATION A-36.

SUPPORT MECHANICAL COMPONENTS FROM THE BUILDING STRUCTURE. DO NOT SUPPORT MECHANICAL COMPONENTS FROM CEILINGS, OTHER MECHANICAL OR ELECTRICAL COMPONENTS, AND OTHER NON-STRUCTURAL ELEMENTS.

PROVIDE PREFABRICATED EQUIPMENT SUPPORT RAILS AND ROOF CURBS MANUFACTURED BY AES INDUSTRIES, CUSTOM CURB, INC., PATE COMPANY, THYBAR OR APPROVED EQUAL. PROVIDE WITH FULLY MITERED RAISED CANT AND STEP TO MATCH ROOF INSULATION THICKNESS, WELDED, MINIMUM 1/8 GAUGE GALVANIZED STEEL SHELL, INTERNALLY REINFORCED TO LOAD BEARING FACTORS OF EQUIPMENT BEING SUPPORTED, MINIMUM 1-1/2 INCH THICK, 3 POUND RIGID INSULATION INTERNAL TO SHELL TO MAINTAIN CONTINUOUS ROOF INSULATION WHERE REQUIRED, FACTORY INSTALLED WOOD NAILER, AND MINIMUM 1/8 GAUGE JACKET WITH COUNTERFLASHING WHERE EQUIPMENT IS NOT FULLY COVER THE EQUIPMENT SUPPORT. PROVIDE SLOPED ROOF EQUIPMENT SUPPORTS TO ENABLE LEVEL INSTALLATION. PROVIDE RIGID BACKING MATERIAL BEHIND CANT TO MAINTAIN CANT SLOPE. PROVIDE MULTIPLE SUPPORT RAILS TO UNIFORMLY SUPPORT THE EQUIPMENT. ATTACH TO ROOF STRUCTURE ACCORDING TO MANUFACTURERS' INSTALLATION INSTRUCTIONS.

PROVIDE PRE-ENGINEERED ROOF EQUIPMENT SUPPORTS AND CURBS

PROVIDE PREFABRICATED EQUIPMENT SUPPORT RAILS AND ROOF CURBS MANUFACTURED BY AES INDUSTRIES, CUSTOM CURB, INC., PATE COMPANY, THYBAR OR APPROVED EQUAL. PROVIDE WITH FULLY MITERED RAISED CANT AND STEP TO MATCH ROOF INSULATION THICKNESS, WELDED, MINIMUM 1/8 GAUGE GALVANIZED STEEL SHELL, INTERNALLY REINFORCED TO LOAD BEARING FACTORS OF EQUIPMENT BEING SUPPORTED, MINIMUM 1-1/2 INCH THICK, 3 POUND RIGID INSULATION INTERNAL TO SHELL TO MAINTAIN CONTINUOUS ROOF INSULATION WHERE REQUIRED, FACTORY INSTALLED WOOD NAILER, AND MINIMUM 1/8 GAUGE JACKET WITH COUNTERFLASHING WHERE EQUIPMENT IS NOT FULLY COVER THE EQUIPMENT SUPPORT. PROVIDE SLOPED ROOF EQUIPMENT SUPPORTS TO ENABLE LEVEL INSTALLATION. PROVIDE RIGID BACKING MATERIAL BEHIND CANT TO MAINTAIN CANT SLOPE. PROVIDE MULTIPLE SUPPORT RAILS TO UNIFORMLY SUPPORT THE EQUIPMENT. ATTACH TO ROOF STRUCTURE ACCORDING TO MANUFACTURERS' INSTALLATION INSTRUCTIONS.

ATTACH EQUIPMENT DIRECTLY TO PRE-ENGINEERED ROOF EQUIPMENT SUPPORT USING ONE OF THE FOLLOWING METHODS:

- RAIL EQUIPMENT SUPPORTS: SECURE EACH EQUIPMENT SUPPORT LEG TO THE RAIL WITH A MINIMUM OF 4 POINTS OF CONNECTION PER LEG.
- ROOF CURBS: SECURE EACH CORNER OF THE EQUIPMENT TO THE CURB NAILER USING A MINIMUM OF 4 LAG SCREWS, LOCATED ALONG THE LENGTH OF THE EQUIPMENT. ALTERNATIVELY, SECURE EQUIPMENT TO THE CURB USING HOLD-DOWN BRACKETS. PROVIDE MINIMUM 6 INCH LONG, 1/4 GAUGE GALVANIZED STEEL BRACKETS SIZED TO WRAP AROUND TOP OF CURB AND UNDER EQUIPMENT BASE RAIL WITH SUFFICIENT HORIZONTAL OFFSET TO COVER OVERLAP GAP BETWEEN THE EQUIPMENT RAIL AND CURB. SECURE BRACKET TO EQUIPMENT AND CURB NAILER USING A MINIMUM OF 8 INCH LONG, 1/4 GAUGE GALVANIZED STEEL BRACKET. PROVIDE ONE BRACKET AT EACH CORNER ALONG THE LENGTH OF THE UNIT.
- PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH ARTICLE "SEISMIC CONTROLS FOR MEFF SYSTEMS."

G. ACCESS PANELS AND DOORS

PROVIDE ACCESS DOORS FOR ALL CONCEALED EQUIPMENT AND DUCT AND PIPING ACCESSORIES THAT REQUIRE SERVICE WHERE INDICATED OR AS REQUIRED, EXCEPT WHERE ABOVE LAY-OUT CEILINGS. ACCESS DOORS SHALL BE ADEQUATELY SIZED FOR THE DEVICES SERVED WITH A MINIMUM SIZE OF 1/8 INCHES X 1/8 INCHES. ACCESS DOORS MUST BE OF THE PROPER CONSTRUCTION FOR TYPE OF CONSTRUCTION IN WHICH IT IS INSTALLED. PROVIDE ACCESS DOORS WITH THE FOLLOWING LOCATION AND COLOR BEFORE ORDERING. PROVIDE FACTORY-FABRICATED AND ASSEMBLED UNITS, COMPLETE WITH ATTACHMENT DEVICES AND FASTENERS READY FOR INSTALLATION, CONCEALED HINGES, FIBER SCREWDRIVER-OPERATED CAM LATCH, AND ANCHOR STRAPS. PROVIDE ACCESS DOORS MANUFACTURED BY GREENECH, MILCOR, TITUS, ZURN, OR EQUAL.

H. PENETRATIONS

SEAL ELEVATED FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATERIGHT AND WEATHERIGHT WITH NON-SHRINK, NON-HARDENING COMMERCIAL SEALANT. PACK WITH MINERAL WOOL AND SEAL BOTH ENDS WITH MINIMUM OF 1/2 INCH OF SEALANT.

SEAL AROUND PENETRATIONS OF FIRE RATED ASSEMBLIES. COORDINATE FIRE RATINGS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRE STOPPINGS. PROVIDE A PRO-DUCT SCHEDULE FOR UL LISTING, LOCATION, WALL OR FLOOR RATING AND INSTALLATION DRAWING FOR EACH PENETRATION FIRE STOP SYSTEM.

EXTEND PIPE INSULATION FOR INSULATED PIPE THROUGH FLOOR, WALL AND ROOF PENETRATIONS, INCLUDING FIRE RATED WALLS AND FLOORS. THE VAPOR BARRIER SHALL BE MAINTAINED. SEAL SLEEVE FOR A MINIMUM OF 1 INCH ANNUAL CLEAR SPACE BETWEEN INSIDE OF SLEEVE AND OUTSIDE OF INSULATION.

PROVIDE PREFABRICATED ROOF CURBS WHERE PIPES AND OR DUCTWORK PENETRATE ELEVATED SLABS OR THE ROOF TO THE EXTERIOR. PROVIDE COVER OVER CURB OF WEATHER-RESISTANT MATERIAL AND SEAL JOINTS WITH WEATHER-RESISTANT GROUT.



DIVISION 23: HEATING, VENTILATING, AND AIR CONDITIONING - CONTINUATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE REQUIREMENTS FOR SEISMIC BRACING OF MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS. SEISMIC PROTECTION CRITERIA USED TO DETERMINE SEISMIC BRACING REQUIREMENTS OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS SHALL BE DETERMINED BY THE APPLICABLE CODE ADOPTED IN THE PROJECT JURISDICTION. WHERE NOT ALREADY DETERMINED WITHIN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING A LICENSED PROFESSIONAL ENGINEER TO ESTABLISH BUILDING SITE CLASS, SEISMIC DESIGN CATEGORY, SEISMIC ZONE, OR ANY OTHER CRITERIA NECESSARY TO DETERMINE THE REQUIREMENTS FOR SEISMIC BRACING ON MECHANICAL, ELECTRICAL, AND/OR PLUMBING SYSTEMS.

SEISMIC BRACING OF FIRE PROTECTION SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PROVISIONS OF NFPA 13 (2010 OR LATER EDITION).

THE CONTRACTOR SHALL DETERMINE THE TYPE AND LOCATION OF SEISMIC BRACING REQUIRED FOR THE MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS SHOWN ON THE DRAWINGS BASED ON THE ESTABLISHED SEISMIC CRITERIA, THE SIZE AND WEIGHT OF THE SUPPORTED ELEMENT, AND THE DISTANCE FROM STRUCTURE OF THE SUPPORTED ELEMENT.

SEISMIC BRACING, RESTRAINTS, ISOLATORS, AND ISOLATION MATERIALS SHALL BE OF THE SAME MANUFACTURER AND SHALL BE CERTIFIED BY THE MANUFACTURER. APPROVED MANUFACTURERS ARE: AMBERBOOTH COMPANY, INC., B-LINE/ALCO, EAT, KINETICS NOISE CONTROL, INC., LOOS & COMPANY, INC., MASON INDUSTRIES, INC., UNI-STRUT, OR VIBRO-ACOUSTICS. EACH DEVICE SHALL HAVE A PRE-APPROVAL NUMBER FROM CALIFORNIA OSHPD OR OTHER RECOGNIZED GOVERNMENT AGENCY SHOWING MAXIMUM RESTRAINT RATINGS.

SEISMIC BRACING MEASURES TO BE APPLIED TO MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT/SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AS WELL AS MANUFACTURER'S REQUIREMENTS. THE MOST STRINGENT CRITERIA SHALL APPLY. ALL ANCHOR CONNECTIONS TO STRUCTURE FOR SUPPORT OF MECHANICAL AND ELECTRICAL EQUIPMENT, REGARDLESS OF THE NEED FOR SEISMIC RESTRAINTS, SHALL BE SHOWN ON SHOP DRAWINGS.

A. AIR FILTERS

PROVIDE AN/FILANDERS PERFECT PLEAT HC M8, CAMFIL FARR 3030, PLEATED, THROWAWAY TYPE FILTERS, MINIMUM MERV 8, OR SIMILAR AS MANUFACTURED BY AIR FILTER, INC., BIOCLIMATIC, COLUMBUS, KOCH, OR APPROVED EQUAL, UNLESS OTHERWISE INDICATED.

TEMPORARY FILTERS USED TO PROTECT OPENINGS IN DUCTWORK AND INSIDE EQUIPMENT WHEN PERMANENT HVAC EQUIPMENT IS USED DURING THE CONSTRUCTION PERIOD SHALL BE PLEATED, THROWAWAY TYPE FILTERS, MINIMUM MERV 6.

B. REFRIGERANT AND OIL

PROVIDE FULL REFRIGERANT AND OIL CHARGE IN NEW AIR CONDITIONING REFRIGERATION SYSTEMS, AND MAINTAIN IT FOR FULL TERM OF THE GUARANTEE.

C. IDENTIFICATION

PROVIDE MANUFACTURER'S STANDARD PRE-PRINTED, SEMI-RIGID SNAP-ON OR PERMANENT ADHESIVE, PRESSURE-SENSITIVE VINYL PIPE MARKERS. COLOR CODE PIPE MARKERS TO COMPLY WITH ANSI A13.1.

PROVIDE MANUFACTURER'S STANDARD LAMINATED PLASTIC, COLOR CODED EQUIPMENT MARKERS, CONFORM TO THE FOLLOWING COLOR CODE: GREEN FOR COOLING; YELLOW FOR HEATING; YELLOW/GREEN FOR COMBINATION COOLING AND HEATING; BROWN FOR ENERGY RECLAMATION; BLUE FOR OTHER EQUIPMENT TYPES. CONFORM TO ANSI A13.1 FOR HAZARDOUS EQUIPMENT.

PROVIDE STENCILED SIGNS FOR EQUIPMENT IDENTIFICATION AT CONTRACTORS OPTION OR WHERE DISTANCE OF REQUIRED IDENTIFICATION REQUIRES LETTERING LARGER THAN 1 INCH HEIGHT. STENCIL PAINT SHALL BE EXTERIOR TYPE, OIL-BASED, ALKYD ENAMEL, MINIMUM 1-1/4 INCH HEIGHT OR GREATER AS REQUIRED FOR LONG DISTANCE IDENTIFICATION, WHITE OR BLACK COLOR FOR BEST CONTRAST.

PROVIDE DUCT MARKERS OR PROVIDE STENCILED SIGNS AND ARROWS INDICATING DUCTWORK SERVICE AND FLOW DIRECTION IN BLACK OR WHITE LETTERING FOR BEST CONTRAST WITH DUCT OR INSULATION COLOR. LOCATE MARKERS MAXIMUM 50 FEET ALONG EACH DUCT SIDE AND WITHIN 5 FEET OF ALL CONTROL AND BALANCING DAMPERS OR BRANCH DUCTS MORE THAN 25 FEET LENGTH AND WITHIN 5 FEET ON EACH SIDE OF WALL, FLOOR, AND CEILING PENETRATIONS. PROVIDE ADDITIONAL MARKERS IN CONGESTED AREAS OR AT MULTIPLE DUCT RUNS AS REQUIRED FOR CLARITY.

3. DUCT INSULATION, DUCTWORK, ACCESSORIES, FLUES AND FANS

A. DUCT INSULATION

PROVIDE FIBERGLASS DUCT LINER WITH FIBERS FIRMLY BONDED TOGETHER WITH A THERMOSETTING RESIN. LINER SURFACE SHALL SERVE AS A BARRIER AGAINST INFILTRATION OF DUST AND DIRT, SHALL MEET ASTM C1338 FOR FUNGI RESISTANCE, AND SHALL BE CLEANABLE USING DUCT CLEANING METHODS AND EQUIPMENT OUTLINED BY NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION (NAIMA) DUCT CLEANING GUIDE. INSTALL WITH LINER ADHESIVE AND MECHANICAL FASTENERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. DUCTWORK SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INCREASE SHEET METAL BY LINER THICKNESS IN BOTH DIRECTIONS WHERE LINER IS INSTALLED.

PROVIDE RECTANGULAR LINER CONFORMING TO ASTM C1071, TYPE I OR II THAT IS 1-1/2 INCH THICK, 1-1/2 POUND DENSITY, MINIMUM R-6.3 CERTAINTED CORP. "TOUGHGARD" OR EQUIVALENT, JOHNS MANVILLE, OWENS-CORNING, OR KNAUF.

PROVIDE LINER ON THE FOLLOWING INTERIOR AIR DUCTS AND WHERE SPECIFIED ON THE DRAWINGS:

- THE FIRST 15 FEET OF DUCT DOWNSTREAM OF EQUIPMENT OUTLETS OR 5 FEET PAST FIRST ELBOW, WHICHEVER IS GREATER.
- THE FIRST 15 FEET OF DUCT UPSTREAM OF EQUIPMENT OUTLETS OR 5 FEET PAST FIRST ELBOW, WHICHEVER IS GREATER.
- TRANSFER AIR DUCTS.

AT INTERFACE OF LINED AND WRAPPED DUCTWORK, OVERLAP LINED DUCTWORK AT LEAST 2 FEET BEYOND WRAPPED INSULATION.

COVER CONCEALED, RIGID DUCTWORK WITH ASTM C553, TYPE II FLEXIBLE FIBERGLASS INSULATION. INSTALLED INSULATION SHALL BE 2 INCH THICK, 3/4 POUND DENSITY, MINIMUM R-6.0 DUCT WRAP, CERTAINTED OR EQUIVALENT JOHNS MANVILLE, OWENS-CORNING, OR KNAUF WITH HEAVY-DUTY FOIL-SCRIM-KRAFT FACING, AND WITH JOINTS TAPED WITH 3 INCH WIDE FOIL TAPE AS FOLLOWS:

- ROUND AND RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK.

- ROUND AND RECTANGULAR OUTSIDE AIR DUCTWORK.
- ROUND AND RECTANGULAR EXHAUST AND RELIEF AIR DUCTWORK WITHIN 10 FEET OF EXTERIOR DISCHARGE.

COVER OUTDOOR AIR, EXHAUST AIR AND RELIEF AIR PLENUMS CONNECTED TO EXTERIOR LOUVERS WITH 1-1/2 INCH THICK, 1.5 POUND DENSITY, RIGID FIBERGLASS INSULATION CONFORMING TO ASTM C612, CLASS 2.

INSULATING MATERIALS, ADHESIVES, COATINGS, ETC., SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50 PER ASTM E84. CONTAINERS FOR MASTICS AND ADHESIVES SHALL HAVE U.L. LABEL.

B. DUCTWORK

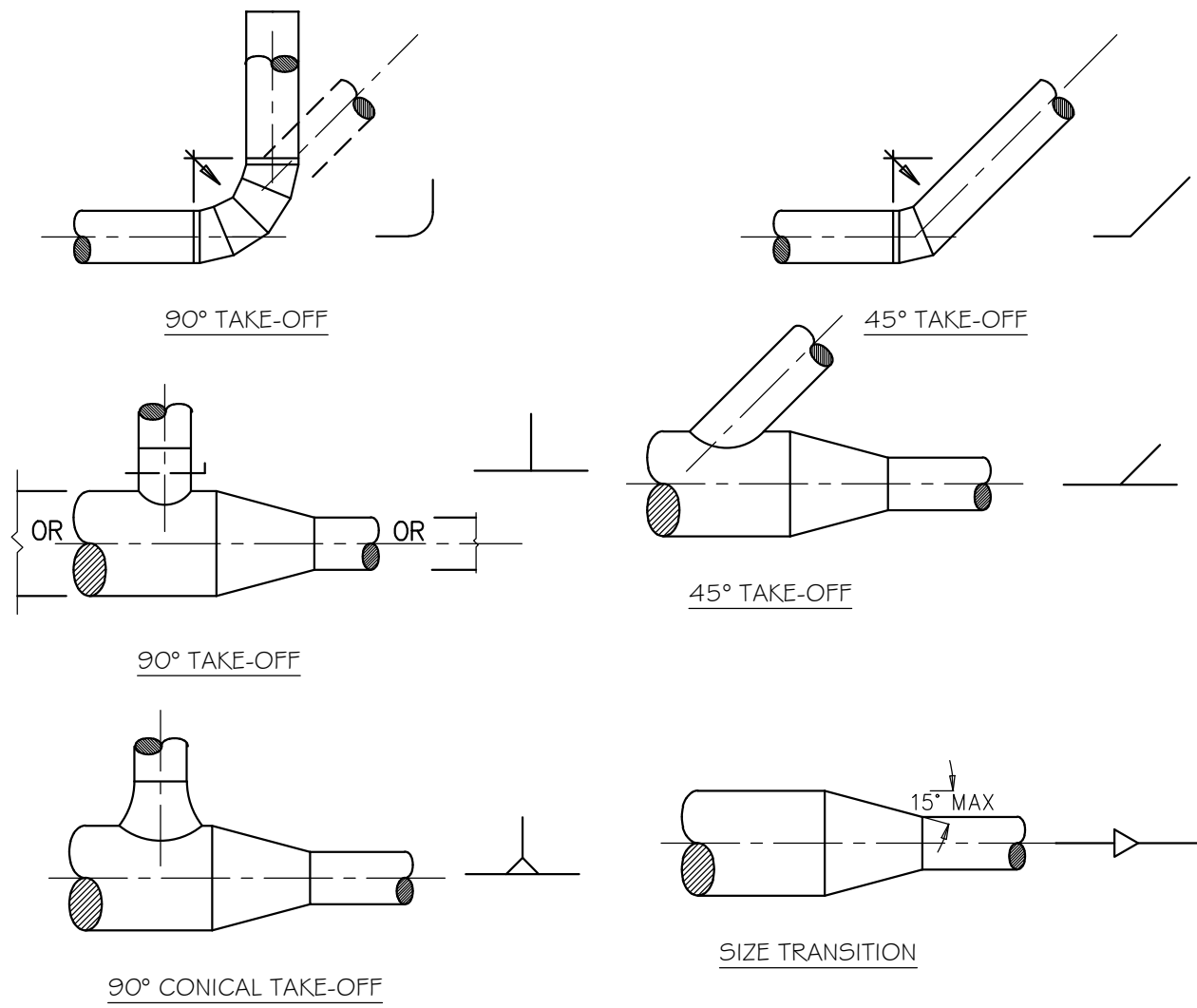
PROVIDE GALVANIZED STEEL DUCTWORK AND HOUSINGS AS SHOWN ON DRAWINGS. CONSTRUCT DUCTWORK INCLUDING FITTINGS AND TRANSITIONS IN CONFORMANCE WITH CURRENT SMACNA STANDARDS RELATIVE TO GAUGE, BRACING, JOINTS, ETC. MINIMUM THICKNESS OF DUCT SHALL BE 26-GAUGE SHEET METAL. REINFORCE HOUSINGS AND DUCTWORK OVER 30 INCHES WITH 1-1/4 INCH ANGLES NOT LESS THAN 5'-6" ON CENTERS, AND CLOSER IF REQUIRED FOR SUFFICIENT RIGIDITY TO PREVENT VIBRATION. SUPPORT HORIZONTAL RUNS OF DUCT FROM STRAP IRON HANGERS ON CENTERS NOT TO EXCEED 8'-0". DO NOT SUPPORT CEILING GRID, CONDUITS, PIPES, EQUIPMENT, ETC. FROM DUCTWORK. COORDINATE ROUTING OF DUCTWORK WITH OTHER CONTRACTORS SUCH THAT PIPING, ELECTRICAL CONDUIT, AND ASSOCIATED SUPPORTS ARE NOT ROUTED THROUGH THE DUCTWORK.

SEAL DUCTWORK WITH HEAVY LIQUID SEALANT, HARDCAST IRONGRIP 601, DESIGN POLYMER DP 1010, UNITED MCGILL DUCT SEALER OR APPROVED EQUAL. APPLIED ACCORDING TO SEALANT MANUFACTURER'S INSTRUCTIONS. SEAL ALL LONGITUDINAL AND TRANSVERSE DUCTWORK JOINTS AIRTIGHT TO MEET SMACNA SEAL CLASS A. TAPES AND MASTICS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A.

PROVIDE RADIUS ELBOWS, TURNS, AND OFFSETS WITH A MINIMUM CENTERLINE RADIUS OF 1-1/2 TIMES THE DUCT WIDTH. WHERE SPACE DOES NOT PERMIT FULL RADIUS ELBOWS, PROVIDE SHORT RADIUS ELBOWS WITH A MINIMUM OF TWO CONTINUOUS SPLITTER VANES. VANES SHALL BE THE ENTIRE LENGTH OF THE BEND. PROVIDE MITERED ELBOWS WHERE SPACE DOES NOT PERMIT RADIUS ELBOWS, WHERE SHOWN ON THE DRAWINGS, OR AT THE OPTION OF THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. MITERED ELBOWS LESS THAN 45 DEGREES SHALL NOT REQUIRE TURNING VANES. MITERED ELBOWS 45 DEGREES AND GREATER SHALL HAVE SINGLE THICKNESS TURNING VANES OF SAME GAUGE AS DUCTWORK, RIGIDLY FASTENED WITH GUIDE STRIPS IN DUCTWORK. VANES FOR MITERED ELBOWS SHALL BE PROVIDED IN ALL SUPPLY AND EXHAUST DUCTWORK AND IN RETURN AND OUTSIDE AIR DUCTWORK THAT HAS AN AIR VELOCITY EXCEEDING 1000 FPM. DO NOT INSTALL VANES IN GREASE DUCTWORK. THE USE OF SQUARE THROAT, RADIUS HEEL ELBOWS IS PROHIBITED. REMOVE AND REPLACE ALL INSTALLED ELBOWS OF THIS TYPE WITH AN APPROVED ELBOW AT NO ADDITIONAL COST TO THE OWNER.

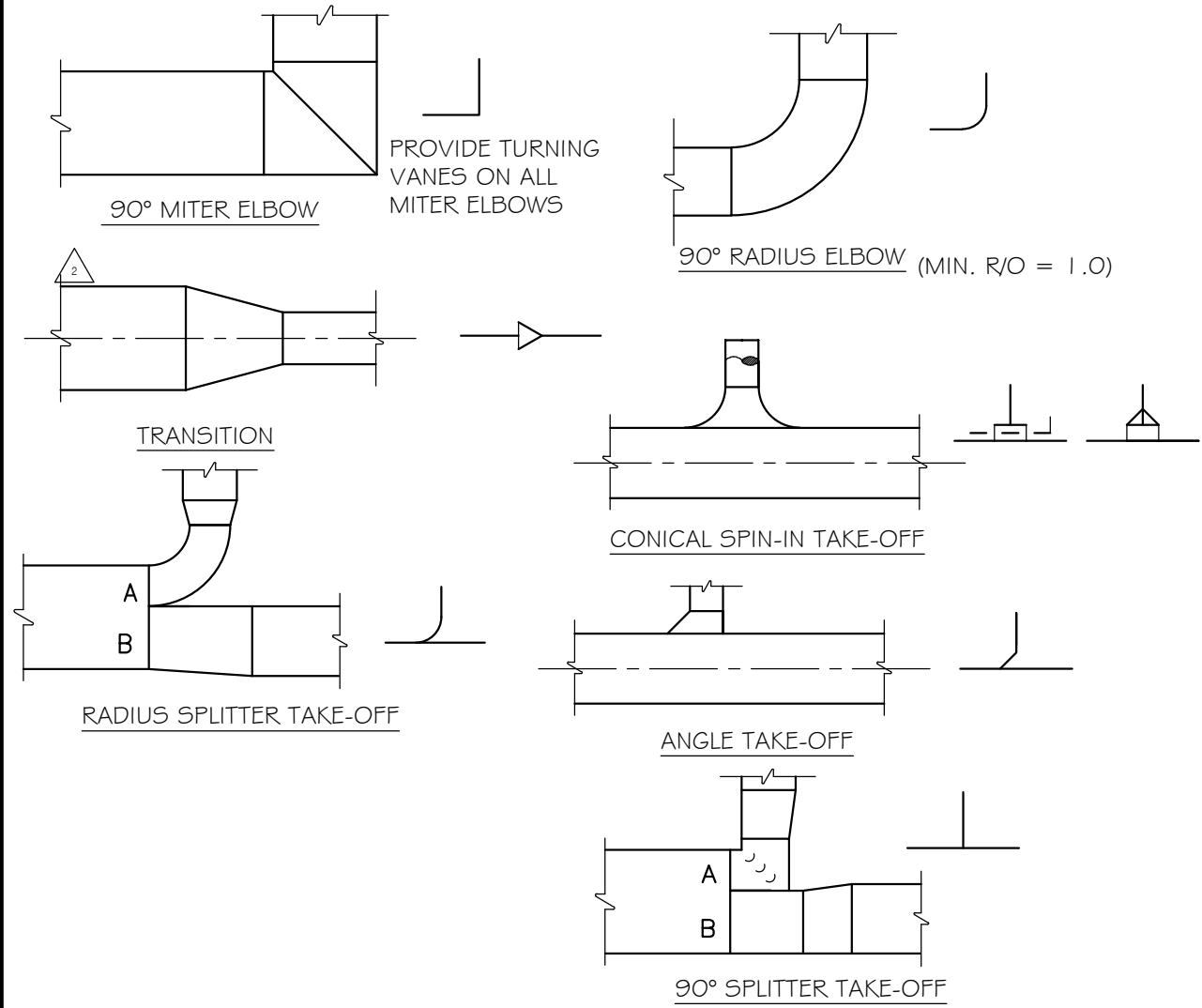
CONNECT DUCTS TO VIBRATING EQUIPMENT AND WHEN TRANSITIONING BETWEEN TWO DIFFERENT METALLIC DUCT MATERIALS (E.G., ALUMINUM TO GALVANIZED STEEL) BY MEANS OF FLEXIBLE CONNECTORS. FLEXIBLE CONNECTORS SHALL BE NEOPRENE COATED GLASS CLOTH CANVAS CONNECTIONS, DURO-DYNE, ELGEN, VENTFABRIC OR EQUAL. FLEXIBLE CONNECTORS SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED RATING NOT HIGHER THAN 50. MAKE AIRTIGHT JOINTS AND INSTALL WITH MINIMUM 1-1/2 INCHES SLACK.

ROUND DUCTWORK LEGEND



SINGLE-LINE ILLUSTRATIONS ARE SYMBOLS USED ON DRAWINGS.

RECTANGULAR DUCTWORK LEGEND



SINGLE-LINE ILLUSTRATIONS ARE SYMBOLS USED ON DRAWINGS.

SIZE A & B DIMENSIONS IN PROPORTION TO AIR QUANTITIES IN EACH LEGS OF SPLIT, UNLESS OTHERWISE NOTED.

MATERIAL SPECIFICATIONS

MATERIAL	SPECIFICATIONS
DUCTWORK	SHOP FABRICATED G-60 COATED GALVANIZED SHEET METAL IN ACCORDANCE WITH SMACNA AND APPLICABLE UNIFORM MECHANICAL CODE REQUIREMENTS. ALL EXPOSED DUCTWORK SHALL BE RIGID SHEET METAL OR ROUND SPIRAL MANUFACTURED PRIMED AND PAINTED BLACK OR AS REQUIRED BY THE ARCHITECT.
FLEXIBLE DUCTWORK	EQUAL TO THERMAFLEX M-KC, PER NFPA 90A, NFPA 90B, UL 181, MAXIMUM FLAME SPREAD 25, MAXIMUM SMOKE DEVELOPED INDEX 50, R 6.0 PER ASTM C-518, TO BE SUPPORTED WITHOUT SAGS AND UP TO MAXIMUM LENGTH OF 6'. FLEXIBLE DUCTWORK TO BE USED ONLY WITHIN CONCEALED CEILING SPACES.
DUCTWORK INSULATION	CONDITIONED SPACE: WRAP WITH MINIMUM 2" THICK, MINIMUM 3/4 PCF DENSITY GLASS FIBER INSULATION WITH F5K FACING, MIN. INSTALLED R-VALUE OF 6, PER ASTM C 553, MAXIMUM FLAME SPREAD 25, MAXIMUM SMOKE DEVELOPED INDEX OF 50, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  NON-CONDITIONED SPACE: MIN. INSTALLED R-VALUE OF 8.
ACCOUSTICAL DUCT LINING	JOHNS MANVILLE FREMACOTE LINACCOUSTIC R-300 WITH 1" THICKNESS, ASTM 1071 TYPE II RIGID DUCT LINER INSTALLED IN ACCORDANCE TO SMACNA INSTALLATION GUIDELINES. RETURN AIR DUCTWORK - RETURN AIR DUCT PLENUM BOX. IF DESIGN DOES NOT INDICATE PLENUM BOX, THEN PROVIDE LINING FOR THE 1ST 15 FEET OF DUCTWORK. SUPPLY AIR DUCTWORK - SUPPLY AIR DUCT PLENUM BOX. IF DESIGN DOES NOT INDICATE PLENUM BOX, THEN PROVIDE LINING FOR THE 1ST 15 FEET OF DUCTWORK.
REFRIGERANT PIPING	PIPE: TYPE 'ACR' COPPER PER ASTM B 280. FITTINGS: WROT COPPER PER ASTM B16.22. UNIONS: WROT COPPER PER ASTM B16.22. PIPE MARKERS: PLASTIC TYPE WITH FLOW ARROW AND COLOR PER ASTM A13.1 INSULATION: CLOSED CELL ELECTROMETRIC FOAM EQUAL TO ARMAFLEX ASTM 84 (25 / 50 RATED) SELF SEAL WITH UV PROTECTIVE JACKET FOR OUTDOOR INSTALLATION.

CLIENT



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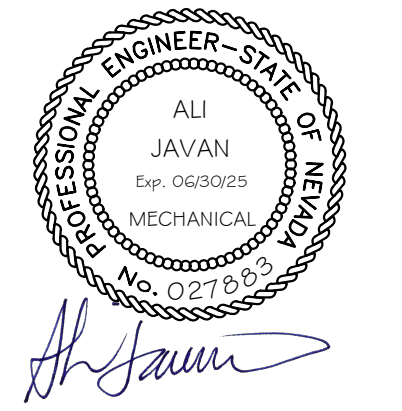
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REGISTRATION



DRAWING HISTORY

NO.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH CENTERS MLK FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

MECHANICAL SPECIFICATION

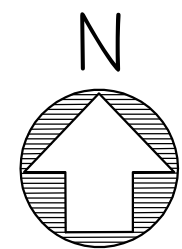
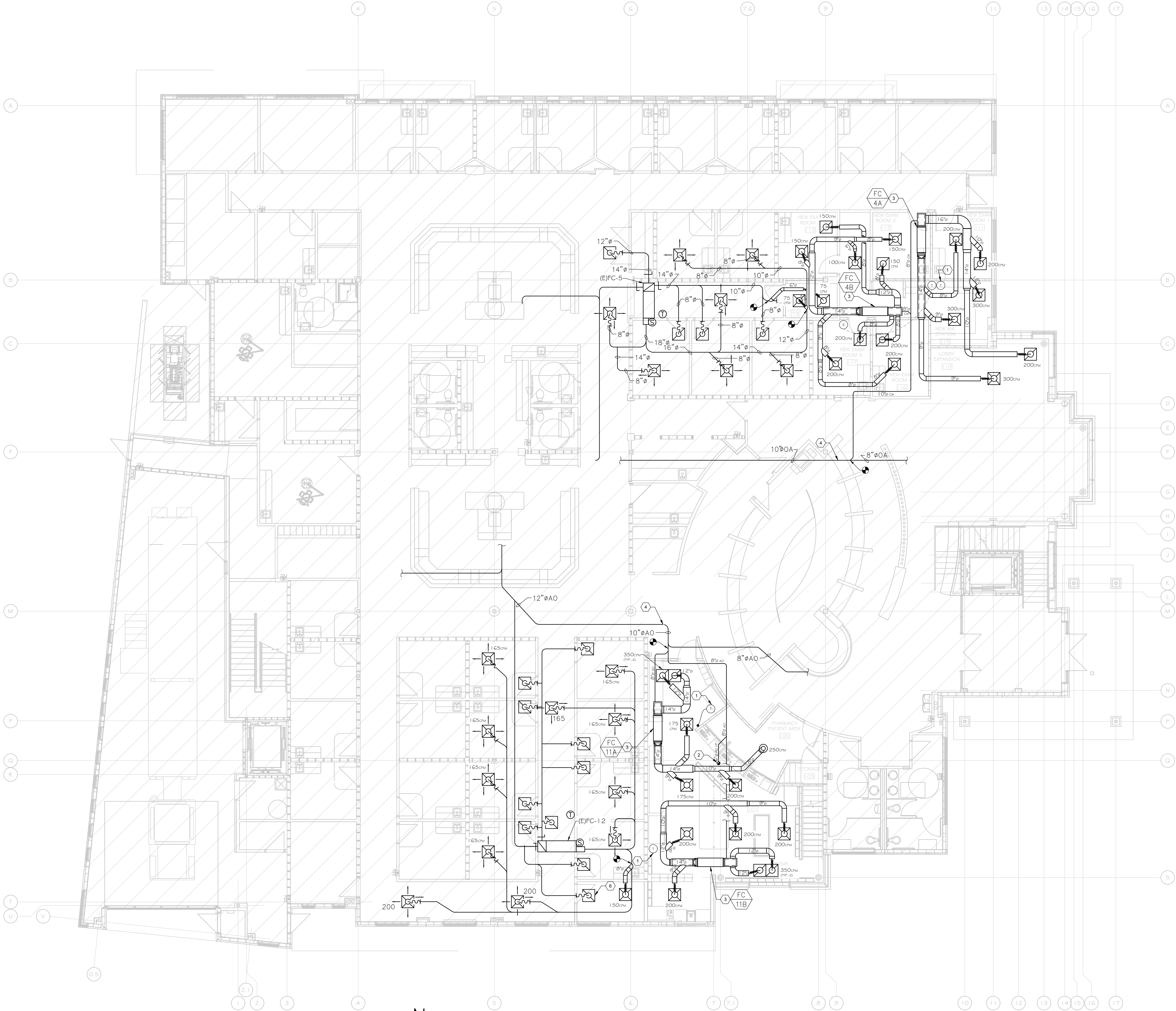
SHEET NUMBER

M0.05

M SHEET 5 OF 10



FILE NAME: M1.00 MECHANICAL GROUND FLOOR PLAN - NEW WORK.DWG  
DATE STAMP: 7/26/2024 11:19 AM



MECHANICAL GROUND FLOOR PLAN - NEW WORK  
SCALE: 1/8" = 1'-0"

## SHEET KEY NOTES

1. PROGRAMMABLE DIGITAL THERMOSTAT TO MATCH.
2. 6"Ø OUTSIDE FRESH AIR DUCT UP TO FLOOR ABOVE. REFER TO VENTILATION CALCULATION TABLE FOR AIR QUANTITIES.
3. SUSPENDED DX INDOOR FAN COIL TO BE INSTALLED PER MANUFACTURER INSTALLATION GUIDELINES.
4. BALANCE OUTSIDE AIR DUCT SYSTEM TO PROVIDE REQUIRED FRESH AIR AND THE TENANT IMPROVEMENT SPACES.
5. BALANCE (E)FC-12 AIR DISTRIBUTION DUCTWORK SYSTEM TO AIR QUANTITIES SHOWN.
6. ADJUST LOCATION AND AIR FLOW OF THE EXISTING RETURN AIR GRILL TO MATCH NEW CEILING LAYOUT.

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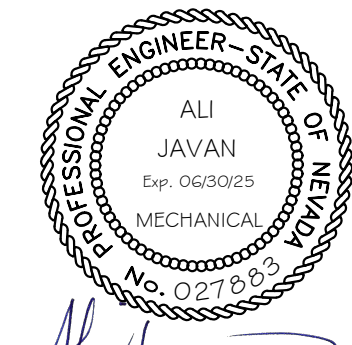
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

MECHANICAL  
GROUND FLOOR  
PLAN - NEW WORK

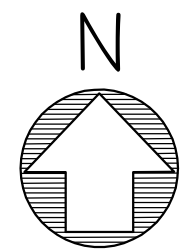
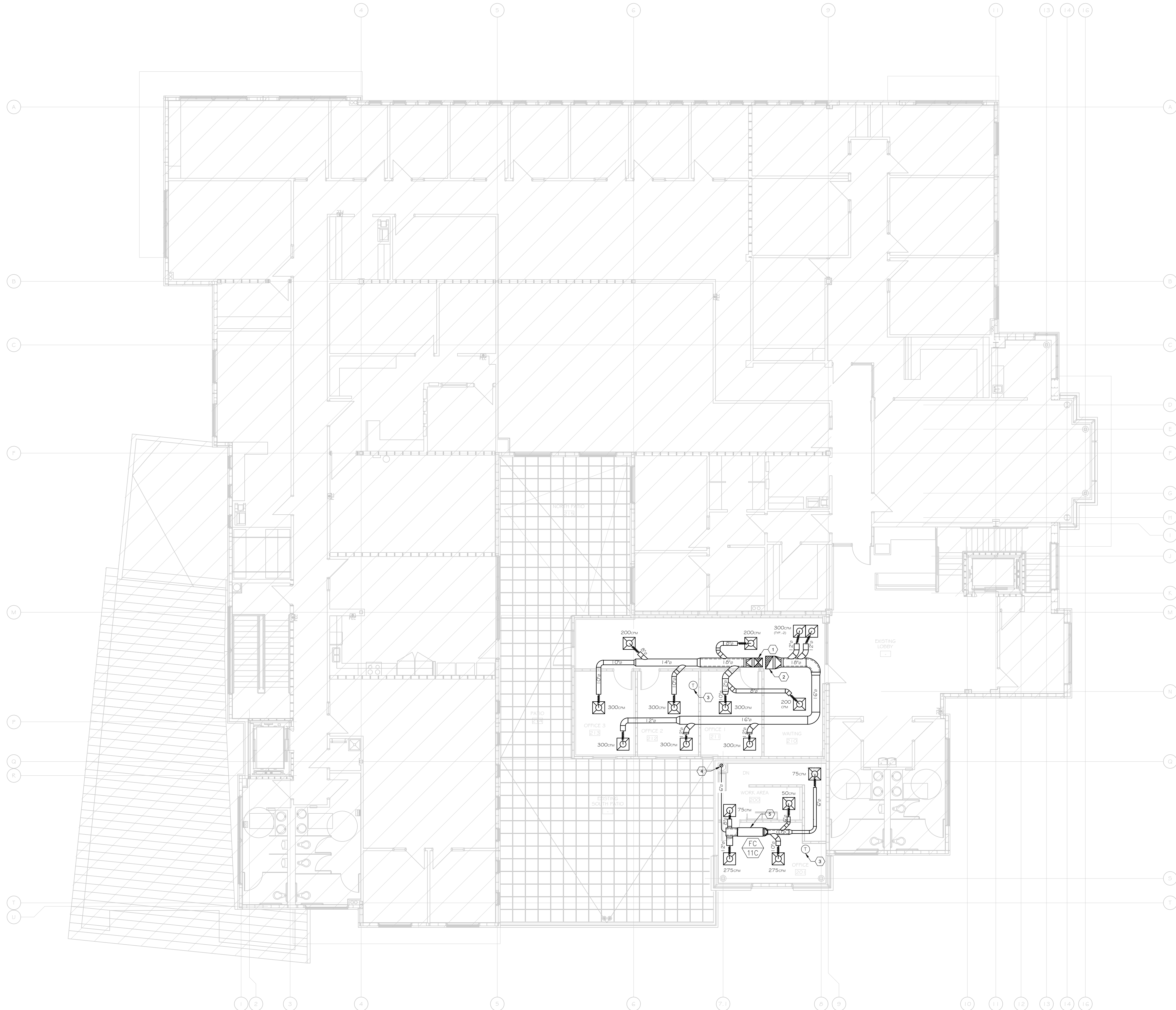
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M1.00

M SHEET 6 OF 10



FILE NAME: M2.00 MECHANICAL SECOND FLOOR PLAN - NEW WORK.DWG  
DATE STAMP: 7/30/2024 11:18 AM



MECHANICAL SECOND FLOOR PLAN - NEW WORK  
SCALE: 1/8" = 1'-0"

## SHEET KEY NOTES

1. ACOUSTICALLY LINED SUPPLY AIR DUCT UP THRU ROOF TO CONNECT TO ROOFTOP UNIT SUPPLY AIR OPENING.
2. ACOUSTICALLY LINED RETURN AIR DUCT UP THRU ROOF TO CONNECT TO ROOFTOP UNIT RETURN AIR OPENING.
3. PROGRAMMABLE DIGITAL THERMOSTAT TO MATCH.
4. 6"Ø OUTSIDE FRESH AIR DUCT FROM FLOOR BELOW. REFER TO VENTILATION CALCULATION TABLE FOR AIR QUANTITIES.
5. SUSPENDED DX INDOOR FAN COIL TO BE INSTALLED PER MANUFACTURER INSTALLATION GUIDELINES.

## GENERAL NOTES

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PROJECT NAME

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CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

MECHANICAL  
SECOND FLOOR  
PLAN - NEW WORK

SHEET NUMBER

M2.00

M SHEET 7 OF 10



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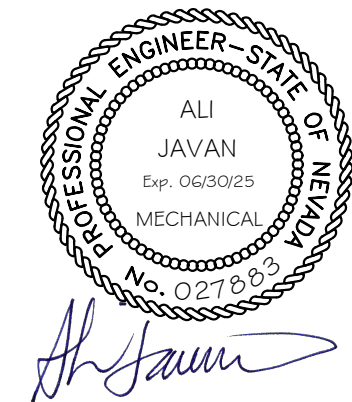
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PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

MECHANICAL ROOF  
PLAN

SHEET NUMBER

M3.00

M SHEET 8 OF 10

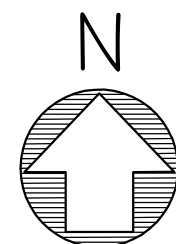
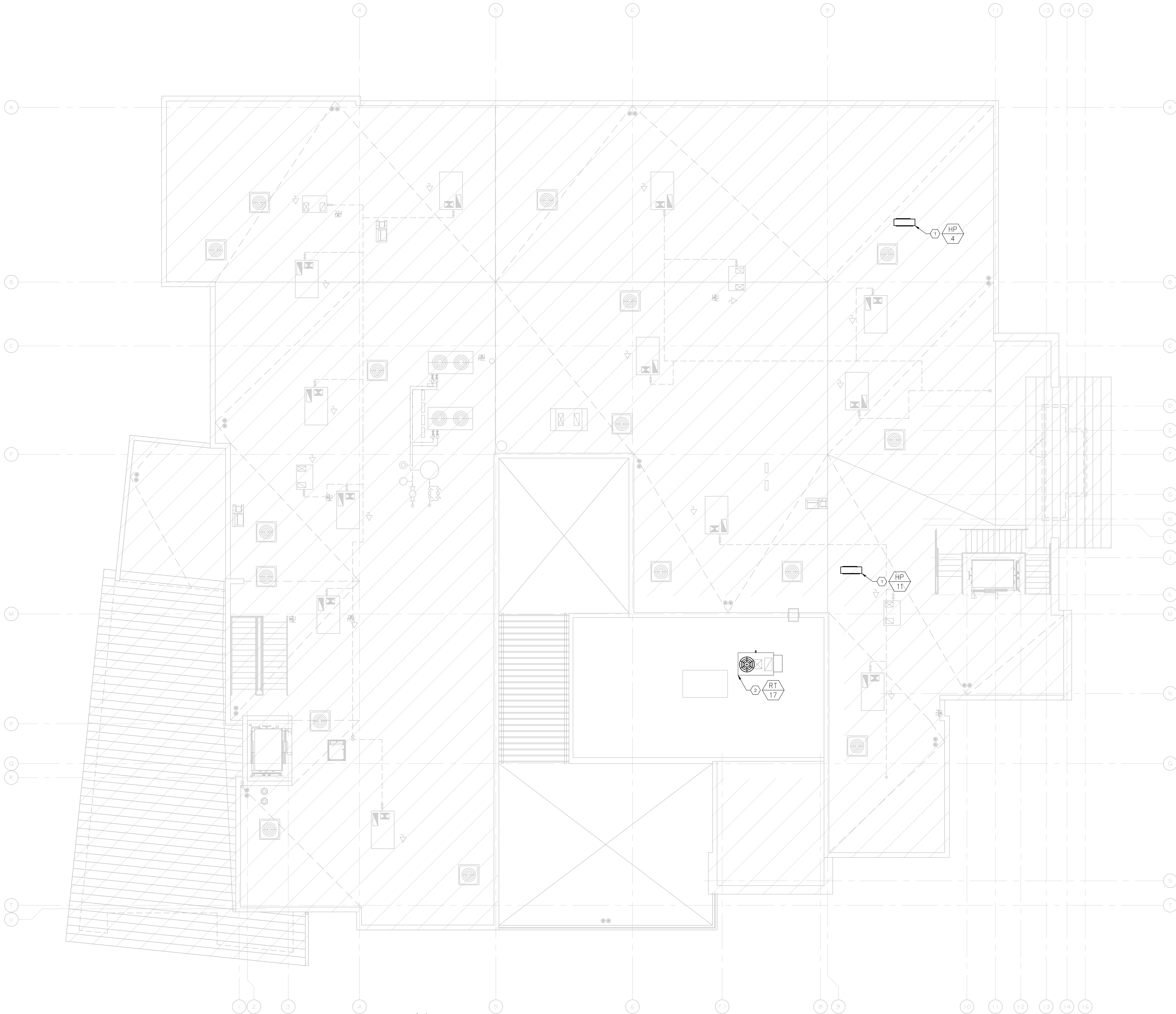
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## SHEET KEY NOTES

1. INSTALL OUTDOOR SPLIT DX HEAT PUMP UNIT ON LEVELING PLATFORM. RUN REFRIGERANT LINE SET BETWEEN INDOOR AND OUTDOOR UNITS. REFERENCE THE PROPOSED PIPING DIAGRAM OR INSTALL AS REQUIRED BY MANUFACTURER. THE ENTIRE RUN OF REFRIGERANT LINE SET TO BE INSULATED. PROVIDE UV PROTECTIVE COVER FOR PART OF LINE SET EXPOSED TO WEATHER AND SUN.
2. INSTALL PACKAGED ROOFTOP HAS/ELECTRIC UNIT ON A LEVELING PRE MANUFACTURED CURB.

## GENERAL NOTES

- A. EQUIPMENT INSTALLATION SHALL MEET OR EXCEED EQUIPMENT MANUFACTURER'S INSTALLATION GUIDELINES.

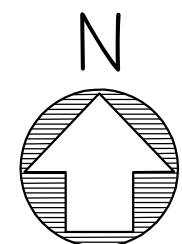
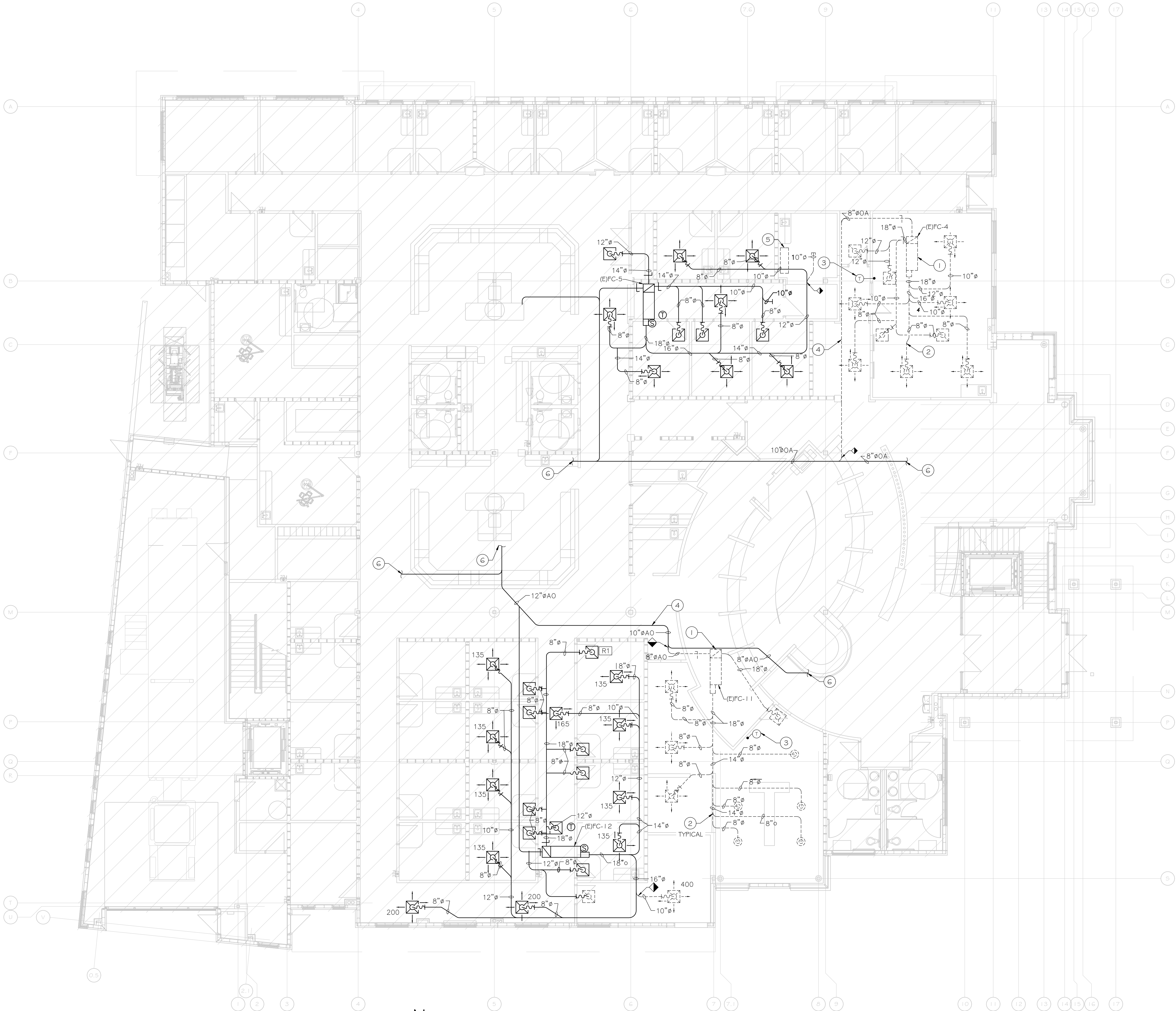


## MECHANICAL ROOF PLAN

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



FILE NAME: MD1.00 MECHANICAL GROUND FLOOR PLAN - DEMOLITION.DWG  
DATE STAMP: 7/30/2024 11:18 AM



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

## # SHEET KEY NOTES

1. DEMOLISH INDICATED SUSPENDED FAN COIL AND ALL ASSOCIATED DUCTWORK, PIPING, AIR DEVICES, ASSOCIATED APPURTENANCES.
2. DEMOLISH THE ENTIRE AIR DISTRIBUTION DUCTWORK, AIR DEVICES SUPPORTS AND ACCESSORIES.
3. DEMOLISH THERMOSTAT AND ASSOCIATED WIRING.
4. DEMOLISH FRESH AIR DUCTWORK UP TO POINT OF REMOVAL. PREPARE FOR CONNECTION TO NEW WORK.
5. DEMOLISH DUCTLESS SPLIT AIR CONDITIONER INDOOR AND ITS ASSOCIATED OUTDOOR UNIT, REFRIGERANT PIPING, POWER LINE AND CONDENSATE DRAIN PIPING.
6. EXISTING OUTSIDE AIR DUCTWORK FROM ERV.

## GENERAL NOTES

- A. REFER TO 'GENERAL DEMOLITION NOTES' ON SHEET MO.00.

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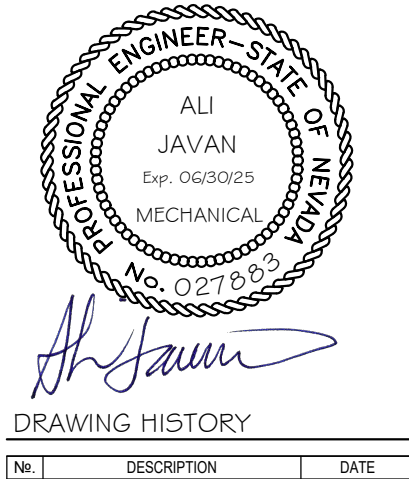
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DRAWING HISTORY		
NO.	DESCRIPTION	DATE

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

MECHANICAL  
GROUND FLOOR  
PLAN - DEMOLITION

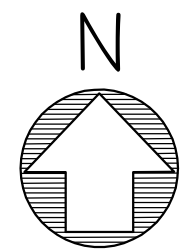
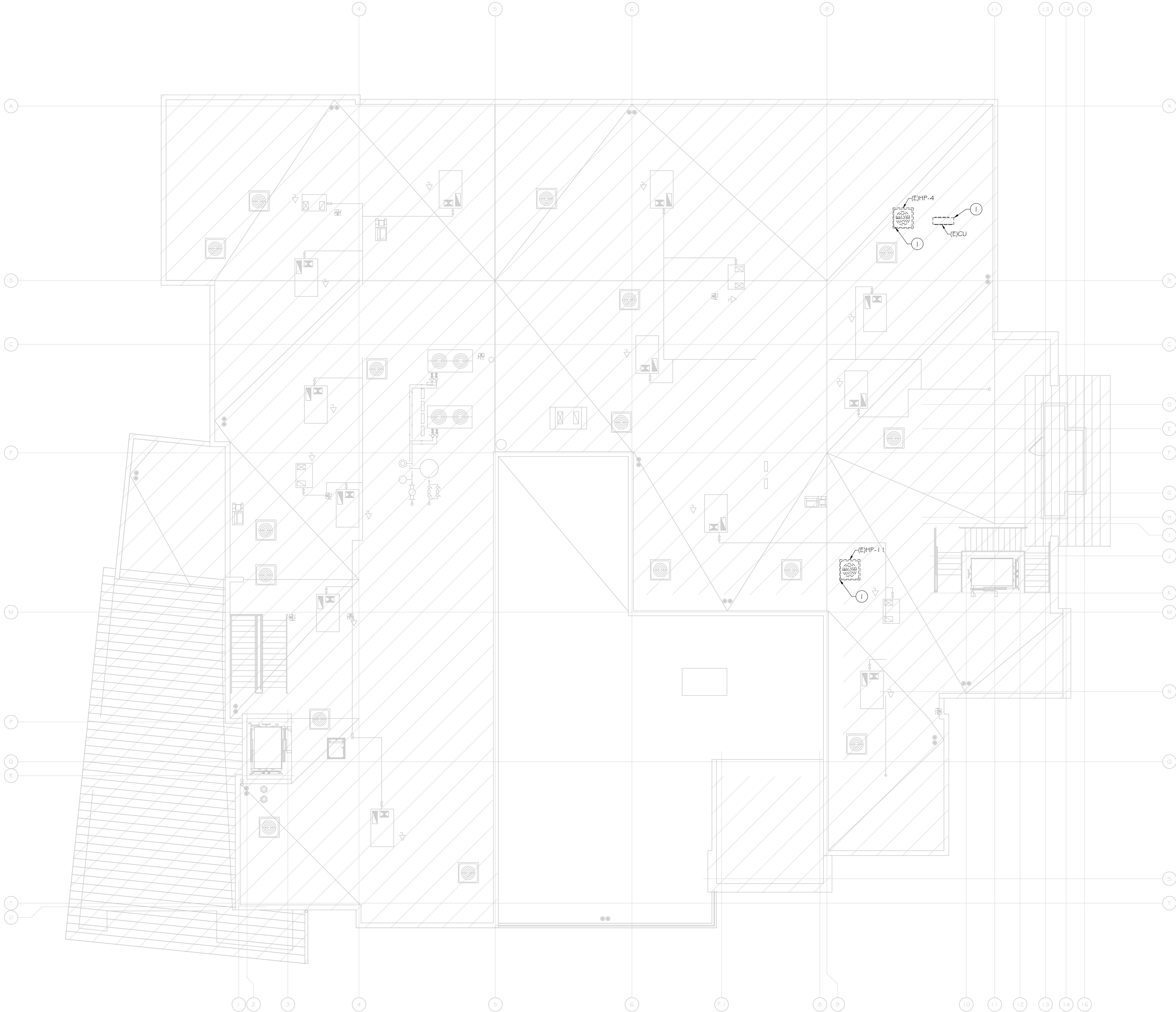
SHEET NUMBER

MD1.00

M SHEET 9 OF 10



FILE NAME: MD3.00 MECHANICAL ROOF PLAN DEMOLITION.DWG  
DATE STAMP: 7/30/2024 11:19 AM



MECHANICAL ROOF PLAN - DEMOLITION  
SCALE: 1/8" = 1'-0"

## # SHEET KEY NOTES

1. DEMOLISH INDICATED ROOFTOP HEAT PUMP OUTDOOR SECTION AND ALL ASSOCIATED SUPPORT, PIPING, POWER AND APPURTENANCES. PREPARE AREA OF REMOVAL FOR INSTALLATION OF NEW WROK.

## GENERAL NOTES

- A. REFER TO "GENERAL DEMOLITION NOTES" ON SHEET MO.00.

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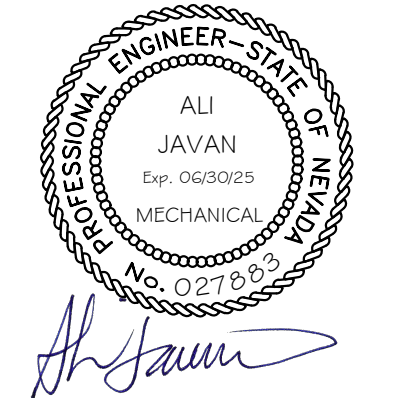
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PROJECT NUMBER

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SHEET TITLE

MECHANICAL ROOF  
PLAN DEMOLITION

SHEET NUMBER

MD3.00

M SHEET 10 OF 10



PIPING MATERIAL SPECIFICATIONS	
SYSTEM	SPECIFICATIONS
NATURAL GAS (2" AND SMALLER ABOVE GRADE EXPOSED TO WEATHER)	PIPE: SEAMLESS SCHEDULE 40 CARBON STEEL PER ASTM A53, GRADE B. PRIMED AND PAINTED FITTINGS: STANDARD WEIGHT THREADED CAST OR MALLEABLE IRON PER ASTM B16.1 UNIONS: CLASS 150 PER ASTM B16.3 PIPE MARKERS: PLASTIC TYPE WITH FLOW ARROW AND COLOR PER ASTM A13.1
NATURAL GAS PIPING (2" AND SMALLER ABOVE GRADE)	PIPE: SEAMLESS SCHEDULE 40 CARBON STEEL PER ASTM A53, GRADE B FITTINGS: STANDARD WEIGHT THREADED CAST OR MALLEABLE IRON PER ASTM B16.1 UNIONS: CLASS 150 PER ASTM B16.3 PIPE MARKERS: PLASTIC TYPE WITH FLOW ARROW AND COLOR PER ASTM A13.1
DOMESTIC WATER PIPING	PIPE: TYPE "L" COPPER TUBING PER ASTM B88-93a FITTINGS: WROT COPPER PER ASTM B16.22 UNIONS: CLASS 150 PER ASTM B16.3 PIPE MARKERS: PLASTIC TYPE WITH FLOW ARROW AND COLOR PER ASTM A13.1
CONDENSATE DRAIN PIPING	PIPE: SEAMLESS SCHEDULE 40 BLACK STEEL PER ASTM A53, GRADE B OR TYPE "M" COPPER TUBING PER ASTM B88-93a FITTINGS: STANDARD WEIGHT THREADED CAST OR MALLEABLE IRON PER ASTM B16.1 OR WROT COPPER PER ASTM B16.22 UNIONS: CLASS 150 PER ASTM B16.3 PIPE MARKERS: PLASTIC TYPE WITH FLOW ARROW AND COLOR PER ASTM A13.1
DOMESTIC HOT WATER, DOMESTIC HOT WATER RETURN, AND EXTERIOR COLD WATER PIPING INSULATION	GLASS FIBER PER ASTM C547 WITH THERMAL CONDUCTIVITY (k) NOT EXCEEDING 0.27 AND THICKNESS PER 2018 IECC INTERIOR: COMPLETE WITH REINFORCED FOIL VAPOR BARRIER WITH SELF ADHESIVE JOINTS (ASJ) EXTERIOR: COMPLETE WITH 0.016" THICK ALUMINUM JACKET PER ASTM B209
WASTE AND VENT PIPING (ABOVE GRADE)	PIPE (NOT EXPOSED WITHIN RETURN AIR PLENUM): ABS PER ASTM D 2661-94A OR PVC PER ASTM D 2665-97A PIPE (EXPOSED WITHIN RETURN PLENUM): HUBLESS CAST IRON PER CISPI 301-97 AND CISPI 310-997. SERVICE WEIGHT. COUPLINGS: 304 STAINLESS STEEL WITH ELASTOMER GASKET AND STAINLESS STEEL BOLTS. HEAVY DUTY, HUSKY SD 4000 OR EQUAL.
WASTE AND VENT PIPING (BELOW GRADE)	PIPE: ABS PER ASTM D 2661-94A OR PVC PER ASTM D 2665-97A
POTABLE WATER (ABOVE GRADE)	PIPE: TYPE "L" COPPER TUBING PER ASTM B88-93a FITTINGS: WROT COPPER PER ASTM B16.22 UNIONS: CLASS 150 PER ASTM B16.3 PIPE MARKERS: PLASTIC TYPE WITH FLOW ARROW AND COLOR PER ASTM A13.1
POTABLE WATER (BELOW GRADE)	PIPE: TYPE "K" COPPER TUBING PER ASTM B88-93a FITTINGS: WROT COPPER PER ASTM B16.22 UNIONS: CLASS 150 PER ASTM B16.3 PIPE MARKERS: PLASTIC TYPE WITH FLOW ARROW AND COLOR PER ASTM A13.1

## PLUMBING ABBREVIATIONS

ABBR	FULL NAME	ABBR	FULL NAME	ABBR	FULL NAME
AG	ABOVE GRADE	HW	HOT WATER RE-CIRCULATION	WFI	WATER FIXTURE UNITS
AF	ABOVE FINISHED FLOOR	MPG	MEDIUM PRESSURE GAS	WH	WALL HYDRANT
AV	ACID VENT	NG	NATURAL GAS (LOW PRESSURE)		
AW	ACID WASTE	NPW	NON-POTABLE WATER		
BFP	BACKFLOW PREVENTER	ORD	OVERFLOW ROOF DRAIN		
BG	BELOW GRADE	OST	OVERFLOW STORM DRAIN		
BOP	BOTTOM OF PIPE	OW	OIL WASTE PIPING		
CB	CATCH BASIN	PG	PROPANE GAS		
CI	CAST IRON	PS	PEX MANIFOLD SYSTEM		
CO	CLEAN OUT	POC	POINT OF CONNECTION		
CV	CHECK VALVE	PRV	PRESSURE REDUCING VALVE		
CW	COLD WATER	RD	ROOF DRAIN		
DFU	DRAINAGE FIXTURE UNITS	RBP	REDUCED PRESSURE BACKFLOW PREVENTER		
ELEV	ELEVATION	SAN	SANITARY SEWER		
FCO	FLOOR CLEAN OUT	ST	STORM DRAIN		
FD	FLOOR DRAIN	TP	TRAP PRIMER		
FFE	FINISHED FLOOR ELEVATION	V	VENT		
GW	GREASE WASTE	VFU	VENT FIXTURE UNITS		
GCO	GRADE CLEANOUT	VTR	VENT THROUGH ROOF		
HB	HOSE BIBB	W	WASTE		
HW	HOT WATER	WCO	WALL CLEANOUT		

## PLUMBING INDEX

SL NO	DRAWING	TITLE
1	PO.01	PLUMBING COVER SHEET
2	PD1.00	PLUMBING GROUND FLOOR PLAN - DEMOLITION
3	PD2.00	PLUMBING SECOND FLOOR PLAN - DEMOLITION
4	P1.00	PLUMBING GROUND FLOOR PLAN - NEW WORK
5	P2.00	PLUMBING SECOND FLOOR PLAN - NEW WORK
6	P3.00	PLUMBING ROOF PLAN

## PLUMBING GENERAL NOTES



- ALL WORK SHALL CONFORM TO THE LATEST ADOPTED AND AMENDED BUILDING CODES, NEVADA INCLUDING 2018 INTERNATIONAL BUILDING CODE, 2018 INTERNATIONAL ENERGY CONSERVATION CODE, 2018 UNIFORM PLUMBING CODE, 2018 UNIFORM MECHANICAL CODE, 2017 NATIONAL ELECTRICAL CODE, 2018 INTERNATIONAL EXISTING BUILDING CODE AND ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- SUBSTITUTIONS: BIDDERS WISHING TO OBTAIN APPROVAL OF AN ARTICLE, DEVICE, PRODUCT, MATERIAL, FIXTURE, FORM OR TYPE OF CONSTRUCTION OTHER THAN THOSE SPECIFIED BY NAME, MAKE OR CATALOG NUMBER, SHALL REQUEST VERBAL APPROVAL FROM THE ARCHITECT NOT LESS THAN TEN (10) DAYS BEFORE THE BID DUE DATE. WRITTEN APPROVAL CANNOT BE FINALIZED UNTIL SUBMITTALS ARE EXAMINED.
- CONDENSATE DRAINAGE: COORDINATE ELEVATION OF AIR CONDITIONING UNITS REQUIRING CONNECTIONS WITH HVAC SECTION OF THE WORK SO THAT PROPER SLOPE OF CONDENSATE LINES CAN BE MET. NOTIFY THE HVAC INSTALLERS WELL IN ADVANCE OF THE INSTALLATION OF THE UNITS OF THE MINIMUM REQUIRED ELEVATION.
- AREA SEPARATION WALLS: WHERE PLUMBING PENETRATES THE AREA SEPARATION WALL SURFACE, THE SECTION PASSING THROUGH THE WALL SURFACE AND THE FIXTURE CONNECTIONS ATTACHED THERETO, SHALL BE ONLY OF METAL.
- CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE DRAWINGS WITH ALL DISCIPLINES AND TRADES PRIOR TO SUBMITTAL OF BID AND INSTALLATION OF SYSTEM.
- THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO BID.
- THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS AND NECESSARY OFFSETS OF PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFIRM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD EFFECT THE SYSTEM PERFORMANCE OR INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE SUBMITTED PRIOR TO INSTALLATION OF THE ITEMS CONCERNED.
- ALL PLUMBING EQUIPMENT SELECTION SHALL BE SUBJECT FOR APPROVAL PRIOR PURCHASING THE UNITS.
- ALL PLUMBING FIXTURES LOCATION ARE DIAGRAMMATIC AND CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR DISABLED ACCESS FIXTURES, EXACT LOCATIONS, MOUNTING HEIGHTS AND COLOR.
- ANY DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.
- THESE DRAWINGS DO NOT INCLUDE ALL NECESSARY SAFETY REQUIREMENTS. CONTRACTOR TO COMPLY TO SAFETY REQUIREMENTS SET FORTH BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTAL OF BID AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. SUBMITTAL OF BID WILL VERIFY THAT THE CONTRACTOR HAS VISITED THE SITE.
- CONTRACTOR TO REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL WASTE, VENT & WATER CONNECTIONS AT EACH PLUMBING FIXTURE.
- TEST SYSTEM(S) IN ACCORDANCE WITH REQUIREMENTS OF THE GOVERNING AUTHORITIES.
- STEEL PLATE SUPPORTS FOR ALL WALL FIXTURES: SUPPORT WITH 3/8" THICK x 8" HIGH STEEL PLATES RECESSED AND BOLTED TO STUDS AND TAPPED FOR FIXTURE BOLTS. LENGTH OF PLATE AT LEAST ON STUD BEYOND FIXTURE, UNLESS CARRIERS ARE SPECIFIED.
- ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING.
- ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC., AND THE ARCHITECT PRIOR TO ANY INSTALLATION.
- ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS LINE SIZE UNLESS OTHERWISE INDICATED ON DRAWINGS.
- UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SCREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
- BEFORE FABRICATION OR INSTALLATION, THIS CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT AND EQUIPMENT PROVIDED UNDER ANOTHER SECTION OF SPECIFICATIONS. EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS SHALL BE COORDINATED IN THE FIELD.
- NO PIPING SHALL BE DIRECTLY EMBEDDED IN CONCRETE OR MASONRY WALLS OR FOOTINGS.
- ALL 4" AND SMALLER SANITARY DRAINAGE AND STORM DRAINAGE PIPING SHALL SLOPED AT 2% (1/4" PER FOOT) MINIMUM, UNLESS OTHERWISE INDICATED.
- ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
- ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING AT WALL OR COLUMN LOCATIONS, PIPING ROUGH-IN SHALL BE STUBBED IN WALLS WHENEVER POSSIBLE.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE A PART OF SEPARATE AND COMPLETE PLUMBING SPECIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BY HIS OPERATIONS. IN ADDITION, THE CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ALL AREAS DAMAGED BY HIS OPERATIONS.

## PLUMBING DEMOLITION GENERAL NOTES

- WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM, AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED 2'-0" IN LENGTH.
- DEMOLITION SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN WHERE SURFACES MUST BE REMOVED TO COMPLETE DEMOLITION, THE CONTRACTOR SHALL REPLACE AND REPAIR THE SURFACES BACK TO THE ORIGINAL CONDITION.
- WHERE DEMOLITION WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION.
- ALL REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE OWNER AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE OWNER.
- THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION REQUIRED WITH SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION. WHERE SYSTEMS MUST REMAIN IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

## PLUMBING SYMBOLS

### ANNOTATIONS

	DOMESTIC WATER RISER DESIGNATION
	SANITARY WATER RISER DESIGNATION
	STORM RISER DESIGNATION
	EMERGENCY STORM RISER DESIGNATION
	VENT RISER DESIGNATION
	GAS RISER DESIGNATION
	REVISION NUMBER
	PIPE SIZE
	PIPE SIZE/NOTE

### DETAIL ANNOTATIONS

	DETAIL NUMBER
	WHERE THE DETAIL IS DRAWN

### DRAINS

	AREA DRAIN
	FLOOR DRAIN
	ROOF DRAIN
	EMERGENCY ROOF DRAIN
	FLOOR CLEAN OUT
	GRADE CLEAN OUT
	FLOOR SINK DRAIN
	OPEN SITE DRAIN
	FUNNEL FLOOR DRAIN

### MISCELLANEOUS


	HORIZONTAL CLEANOUT
	WALL HYDRANT
	HOSE BIB
	GAS METER
	WATER METER
	WATER FILTER
	VACUUM BREAKER
	TEMPERATURE AND PRESSURE RELIEF VALVE
	TRAP PRIMER
	DIRT LEG
	BREAK PIPE BELOW

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

### PIPE REPRESENTATION

	EXISTING CW
	EXISTING HW
	EXISTING HWR
	EXISTING SAN/STORM
	EXISTING VENT
	DEMOLITION CW
	DEMOLITION HW
	DEMOLITION HWR
	DEMOLITION SAN/STORM
	DEMOLITION VENT
	NEW CW
	NEW HW
	NEW HWR
	NEW SAN/ST ABOVE GROUND
	NEW SAN/ST BELOW GROUND
	NEW VENT

### PIPE VALVES AND ACCESSORIES

	REDUCED PRESSURE ZONE BACKFLOW PREVENTER (ASSE 1013)
	BALL VALVE
	CHECK VALVE
	GATE VALVE
	PRESSURE REDUCING VALVE
	THERMOSTATIC MIXING VALVE
	PLUG VALVE
	BALANCING VALVE
	VACUUM RELIEF VALVE
	BACKFLOW PREVENTER (ASSE 1024)
	BACK WATER VALVE
	PUMP
	WATER HAMMER ARRESTOR (A" = PDI SIZE)
	PRESSURE GAUGE
	THERMOMETER GAUGE
	AQUASTAT VALVE
	STRAINER

### PIPE FITTINGS

	REDUCER/INCRÉASER
	CAPPED CONNECTION
	PIPE UNION
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE UP
	TEE DOWN
	SHUT-OFF VALVE IN RISER

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

CLIENT



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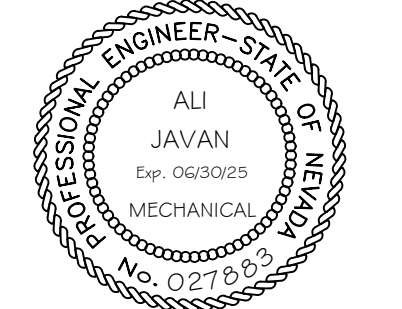
CONSULTANT



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REGISTRATION



DRAWING HISTORY

NO.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

PLUMBING COVER  
SHEET

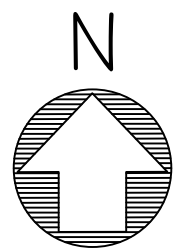
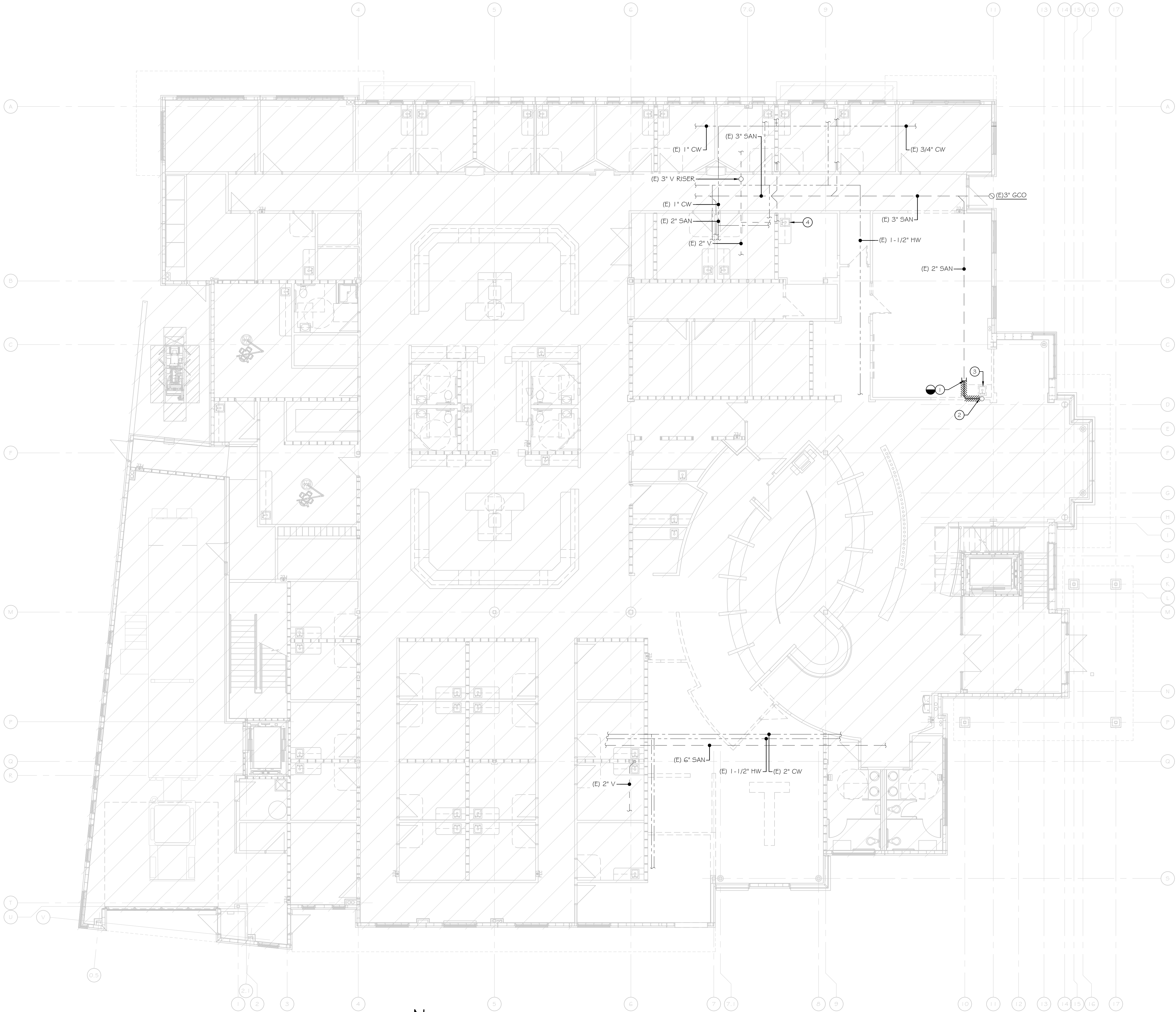
SHEET NUMBER

P0.01

P SHEET 1 OF 6



FILE NAME: PD\_02 - PLUMBING GROUND FLOOR PLAN - DEMOLITION.DWG  
DATE STAMP: 7/29/2024 1:00 AM



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

- # SHEET KEY NOTES
1.

REMOVE EXISTING 2" SANITARY FROM CEILING BACK TO BELOW FLOOR AND CAP AS SHOWN. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE.
2.

CAP EXISTING 2" SANITARY IN CEILING SERVING 2ND FLOOR SINK AND PREPARE FOR NEW WORK.
3.

REMOVE EXISTING SINK IN ITS ENTIRETY. TRIM AND CAP ASSOCIATED PIPING BACK TO MAIN. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION.
4.

EXISTING SINK AND ALL ASSOCIATED PIPING TO REMAIN.

- GENERAL NOTES
- A.

INFORMATION SHOWN ON DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD ANY CONDITIONS ARE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B.

CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO ORIGINAL FUNCTIONING.
- C.

CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS OF EXISTING FIXTURES AND PIPING PRIOR TO START OF DEMOLITION WORK.
- D.

CONTRACTOR SHALL COORDINATE WITH OWNER/ ARCHITECT FOR STORAGE OR DISPOSAL OF EXISTING PLUMBING FIXTURES ALONG WITH THEIR ACCESSORIES THAT ARE BEING REMOVED.
- E.

CONTRACTOR SHALL COORDINATE ALL PLUMBING DISCONNECTIONS AND INTERRUPTIONS WITH BUILDING OWNER. VERIFY EXACT SCHEDULE WITH ARCHITECT/ OWNER.
- F.

CONTRACTOR SHALL VERIFY THE EXISTING PLUMBING UTILITIES IN SCOPE OF WORK PRIOR TO DEMOLITION/ REMOVAL WORK. EXISTING PLUMBING UTILITIES IN USE BY OTHER AREA NOT IN SCOPE SHALL REMAIN UNDISTURBED. ANY REQUIRED ACCESS OR CONSTRUCTION ACTIVITY SHALL BE COORDINATED WITH THE CURRENT OCCUPANTS IN THAT AREA.
- G.

PATCH ALL HOLES, PENETRATIONS, ETC. TO MATCH EXISTING MATERIALS (WALLS, FLOORS ETC.) FINISHES ETC. AND PAINT TO MATCH EXISTING FINISHES IN THE AREA OF WORK.



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[F]  
ARCHITECT



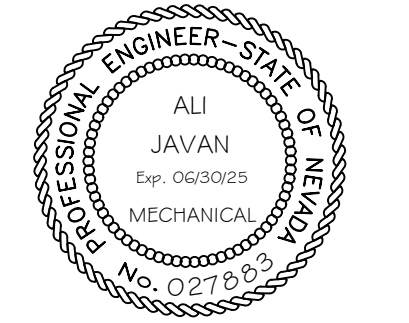
7373 PEAK DR., SUITE 170  
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PGAL TBPE REG. NO: F-2742  
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REGISTRATION



DRAWING HISTORY		
NO.	DESCRIPTION	DATE

PROJECT NAME  
NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION  
1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

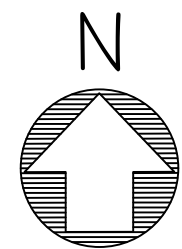
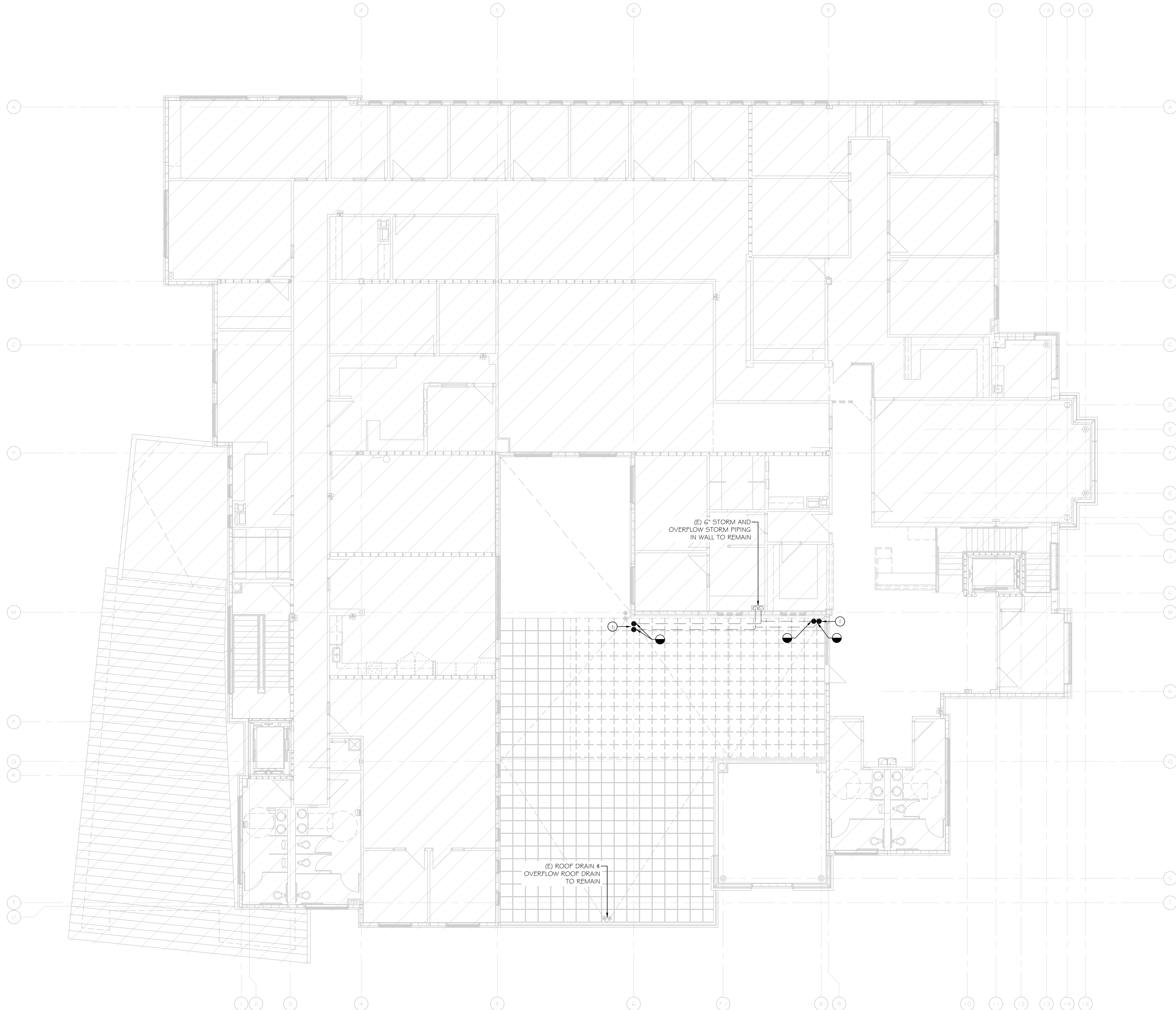
PROJECT NUMBER  
1007689.00

SHEET TITLE  
PLUMBING GROUND  
FLOOR PLAN -  
DEMOLITION

SHEET NUMBER  
PD1.00  
P SHEET 2 OF 6



FILE NAME: PD2.02 - PLUMBING SECOND FLOOR PLAN - DEMOLITION.DWG  
DATE STAMP: 6/24/2024 4:54 PM



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

## # SHEET KEY NOTES

1. REMOVE EXISTING 3" ROOF DRAIN AND 3" OVERFLOW ROOF DRAIN. DISCONNECT EXISTING PIPING IN CEILING AND CAP. PREPARE FOR NEW WORK TO MATCH NEW LAYOUT.

CLIENT



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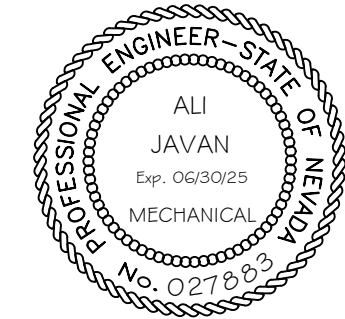
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REGISTRATION



DRAWING HISTORY

NO.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

PLUMBING SECOND  
FLOOR PLAN -  
DEMOLITION

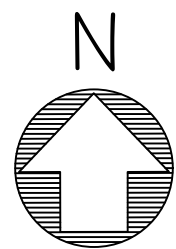
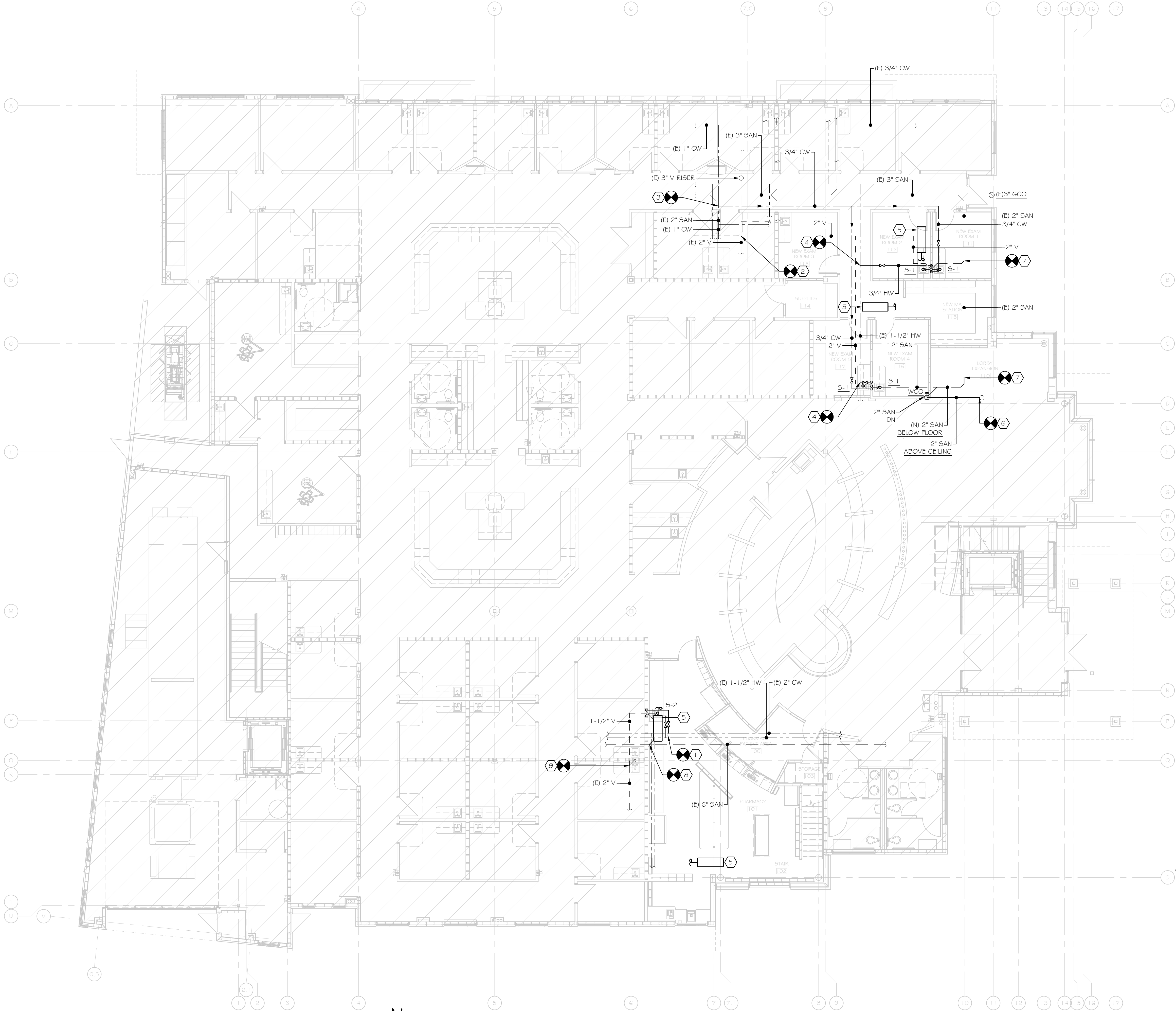
SHEET NUMBER

PD2.00

P SHEET 3 OF 6



FILE NAME: P1.00 - PLUMBING GROUND FLOOR PLAN - NEW WORK.DWG  
DATE STAMP: 7/25/2024 12:49 AM



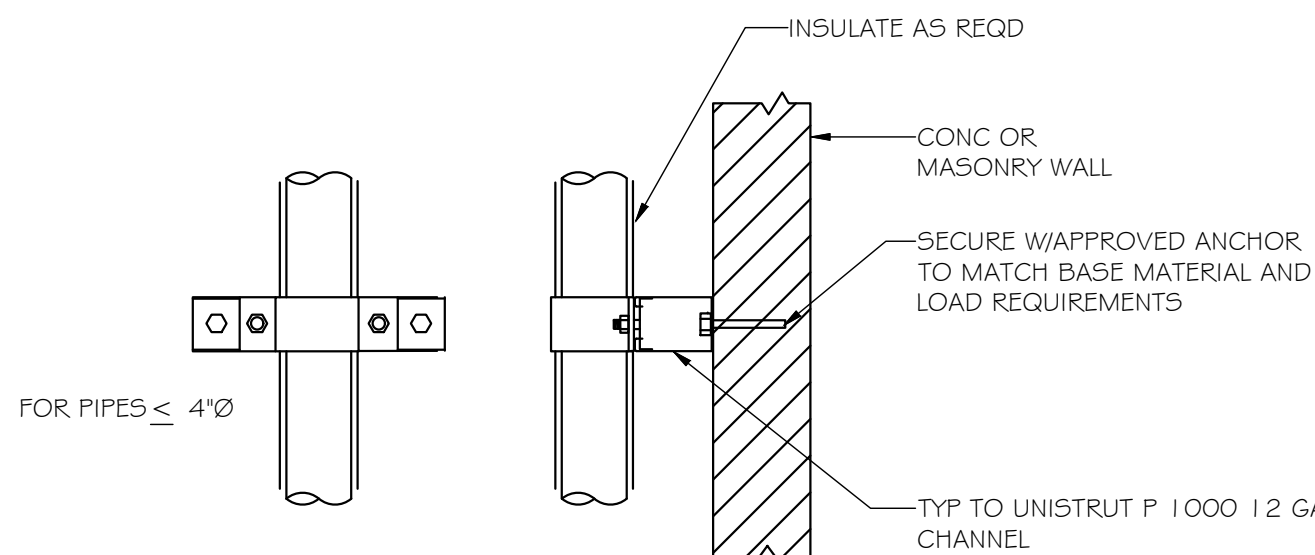
PLUMBING GROUND FLOOR PLAN - NEW WORK  
SCALE: 1/8" = 1'-0"

## SHEET KEY NOTES

- NEW 1/2" COLD WATER AND 1/2" HOT WATER AT CEILING CONNECT TO EXISTING 2" COLD WATER AND 1-1/2" HOT WATER MAIN. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE.
- NEW 2" VENT AT CEILING CONNECT TO EXISTING 2" VENT. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE.
- NEW 3/4" COLD WATER AT CEILING CONNECT TO EXISTING 1" COLD WATER. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE.
- NEW 3/4" HOT WATER AT CEILING CONNECT TO EXISTING 1-1/2" HOT WATER MAIN. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE.
- FAN COIL UNIT (FCU). COORDINATE EXACT LOCATION WITH MECHANICAL PLANS. ROUTE 3/4" CONDENSATE DRAIN TO TAILPIECE OF THE NEAREST SINK.
- NEW 2" SANITARY AT CEILING CONNECT TO EXISTING 2" SANITARY SERVING ABOVE FLOOR SINK AS REQUIRED TO MATCH THE FINISHED CONDITIONS.
- NEW 2" SANITARY BELOW FLOOR CONNECT TO EXISTING 2" SANITARY. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION, SIZE, AND INVERT.
- NEW 2" SANITARY BELOW FLOOR CONNECT TO EXISTING 6" SANITARY. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION, SIZE, AND INVERT.
- NEW 1-1/2" VENT AT CEILING CONNECT TO EXISTING 2" VENT. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE.

## GENERAL NOTES

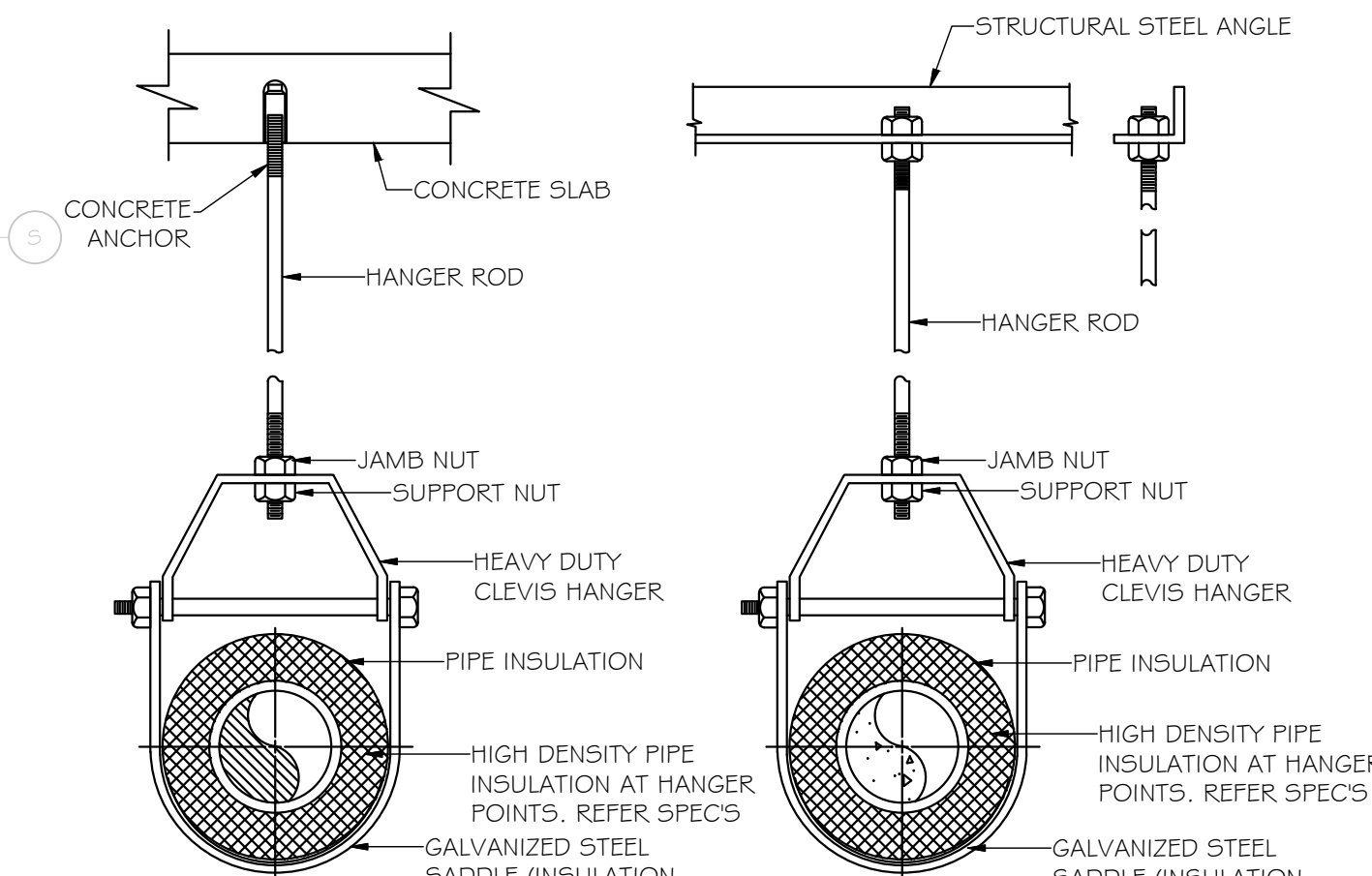
- CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION & INVERT ELEVATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- CONTRACT TO COORDINATE WITH OTHER TRADES/ DISCIPLINES DURING PIPING INSTALLATION IN CEILING SPACES.
- USE SOUND ISOLATION BRACKETS FOR WATER PIPING.
- PROVIDE ANGLES STOPS FOR EACH INDIVIDUAL FIXTURE.



NOTE:  
1. PROVIDE MIN ANCHOR SUPPORT SPACING EVERY 3' VERTICALLY.

## VERTICAL PIPE SUPPORT DETAIL

SCALE: NOT TO SCALE



## PIPE SUPPORT DETAIL

SCALE: NOT TO SCALE

CLIENT



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[F]

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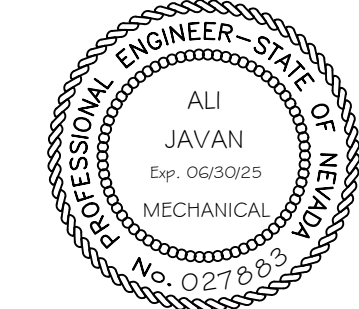
CONSULTANT



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REGISTRATION



DRAWING HISTORY

No.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

PLUMBING GROUND  
FLOOR PLAN - NEW  
WORK

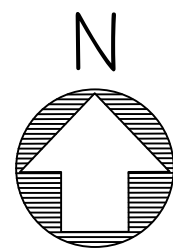
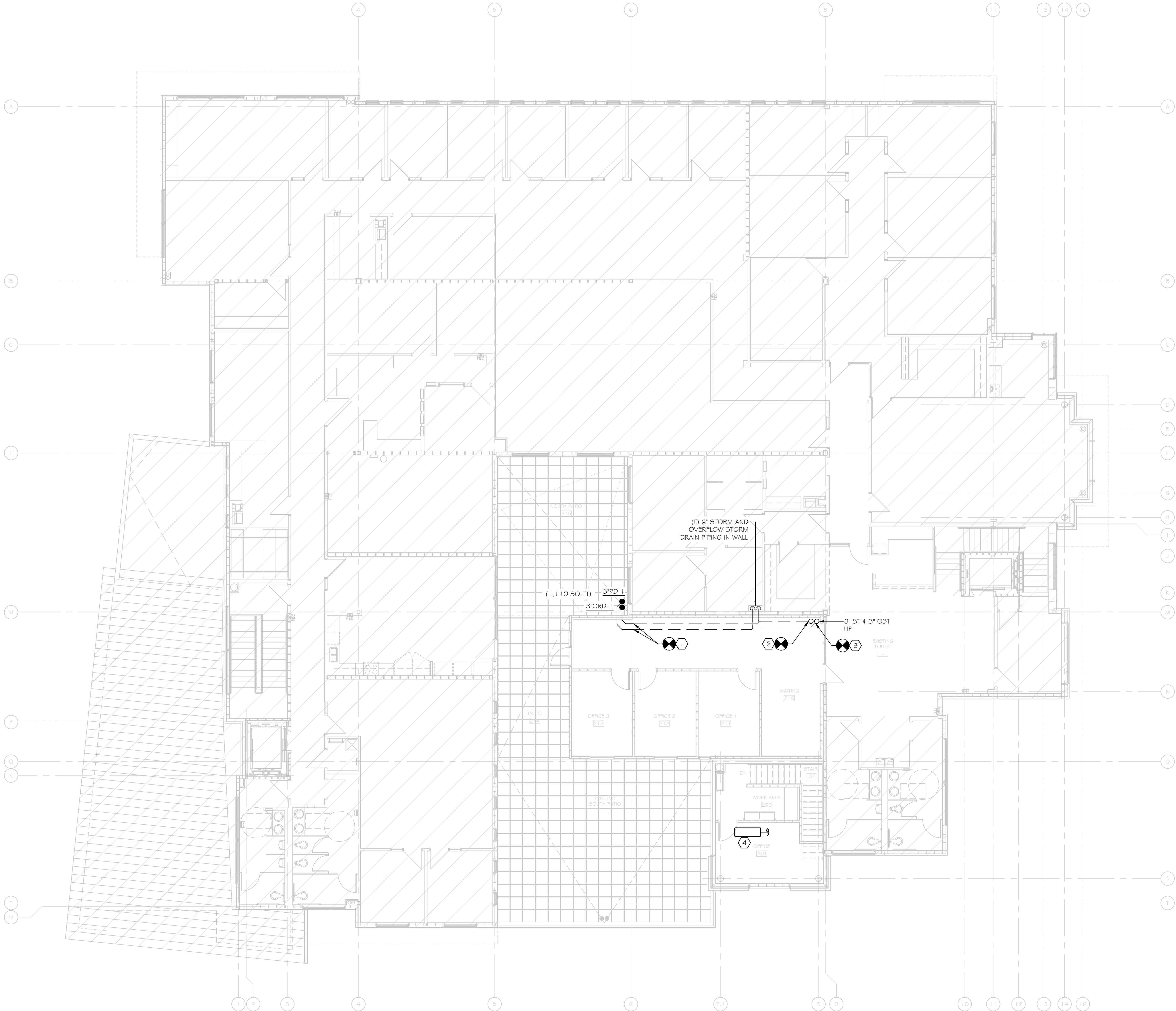
SHEET NUMBER

P1.00

P SHEET 4 OF 6



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DATE STAMP: 6/24/2024 4:59 PM



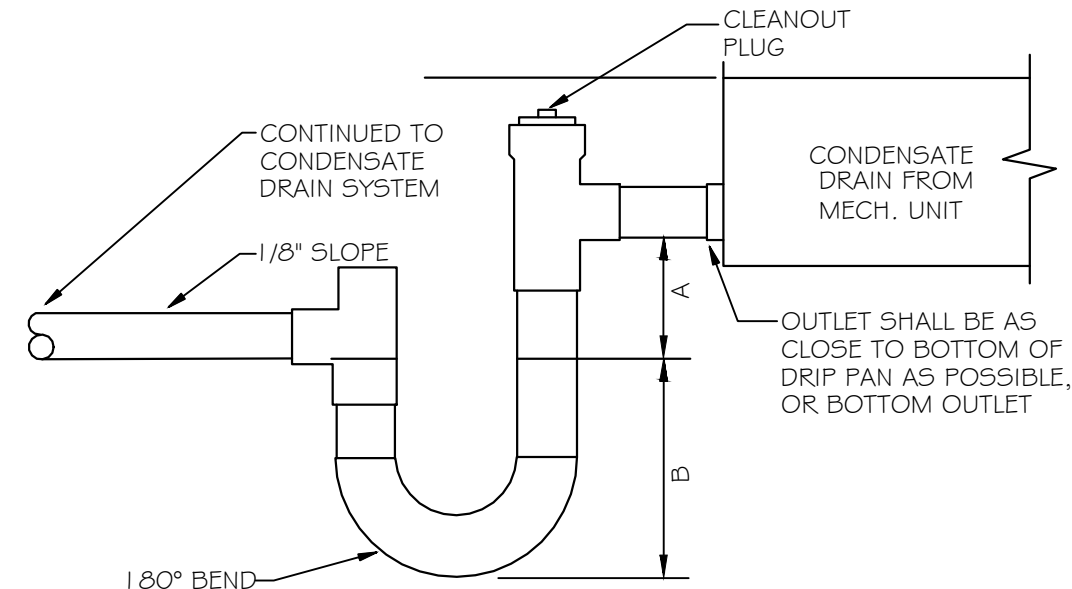
PLUMBING SECOND FLOOR PLAN - NEW WORK  
SCALE: 1/8" = 1'-0"

## SHEET KEY NOTES

1. NEW 3" STORM PIPING AND 3" OVERFLOW STORM PIPING CONNECT TO EXISTING ASSOCIATED PIPING AS REQUIRED TO MATCH THE FINISHED CONDITIONS.
2. NEW 3" STORM FROM THE CEILING CONNECT TO EXISTING STORM PIPING. SEE DRAWING P3.00 FOR NEW CEILING STORM PIPING FROM THE ROOF DRAIN.
3. NEW 3" OVERFLOW STORM FROM THE CEILING CONNECT TO EXISTING OVERFLOW STORM PIPING. SEE DRAWING P3.00 FOR NEW CEILING OVERFLOW STORM PIPING FROM THE OVERFLOW ROOF DRAIN.
4. FAN COIL UNIT (FCU). COORDINATE EXACT LOCATION WITH MECHANICAL PLANS. ROUTE 3/4" CONDENSATE DRAIN TO TAILPIECE OF THE NEAREST LAVATORY IN THE RESTROOM.

## GENERAL NOTES

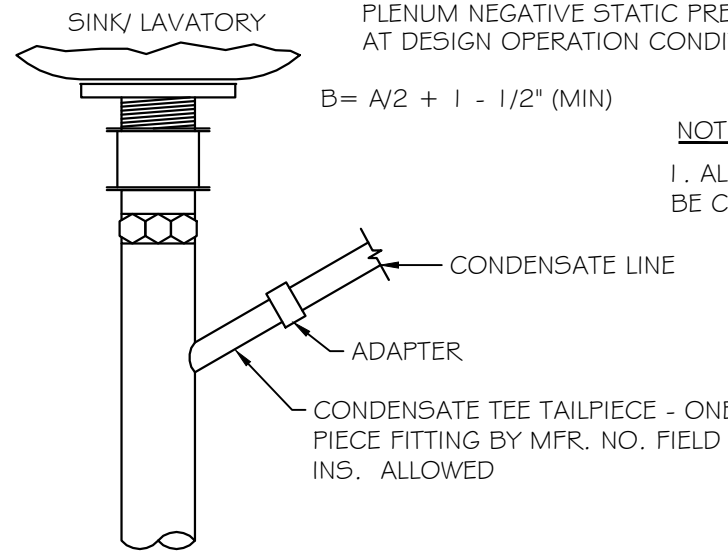
- A. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION & INVERT ELEVATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- B. ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNER'S REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.
- C. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- D. CONTRACT TO COORDINATE WITH OTHER TRADES/ DISCIPLINES DURING PIPING INSTALLATION IN CEILING SPACES.



**DRAW-THRU (NEGATIVE PRESSURE):**  
A= EQUAL TO OR LARGER THAN THE PLENUM NEGATIVE STATIC PRESSURE AT DESIGN OPERATION CONDITIONS.  
B=  $A/2 + 1 - 1/2"$  (MIN)

**BLOW-THRU (POSITIVE PRESSURE):**  
A= N/A.  
B= PLENUM/DUCT STATIC PRESSURE AT DESIGN CONDITIONS PLUS 1" (MIN. 3")

**NOTES:**  
1. ALL CONDENSATE DRAIN PIPING MATERIAL SHALL BE COPPER, UNLESS OTHERWISE NOTED.



CONDENSATE DRAIN PIPING DETAIL  
SCALE: NOT TO SCALE

CLIENT



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[F]

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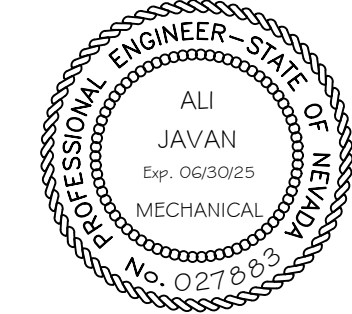
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REGISTRATION



DRAWING HISTORY

No.	DESCRIPTION	DATE
-----	-------------	------

PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

PLUMBING SECOND  
FLOOR PLAN - NEW  
WORK

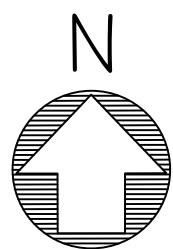
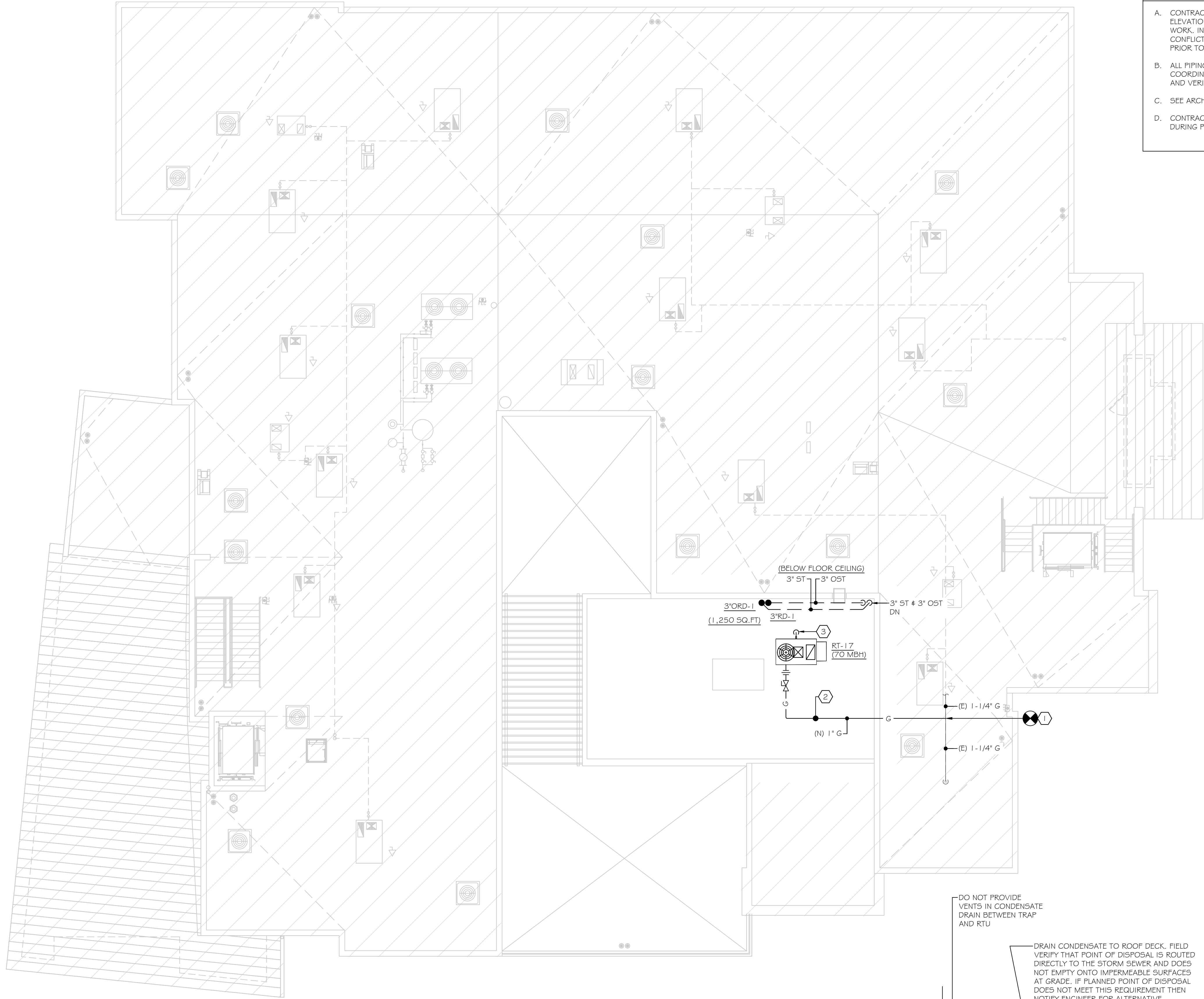
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P2.00

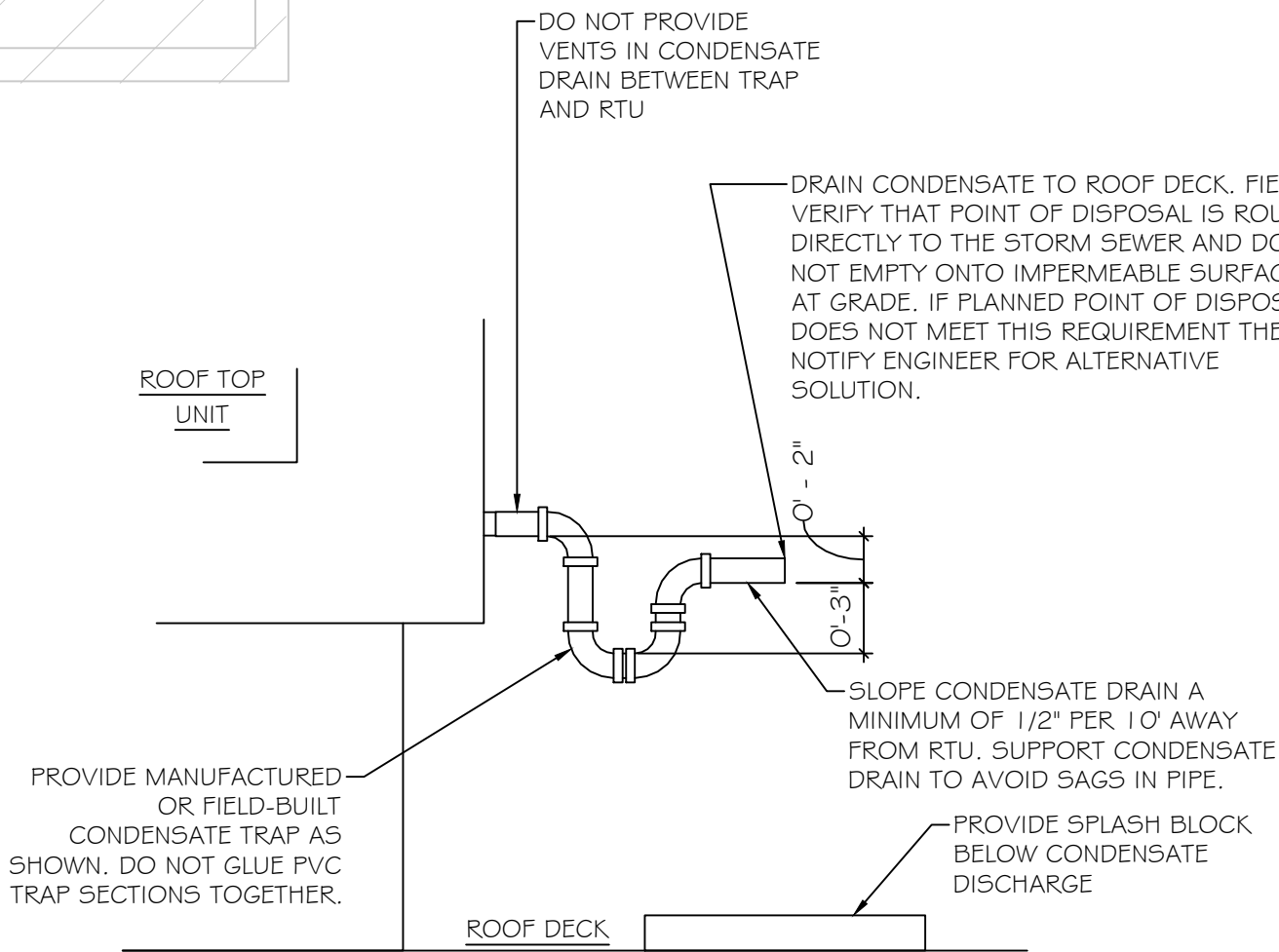
P SHEET 5 OF 6



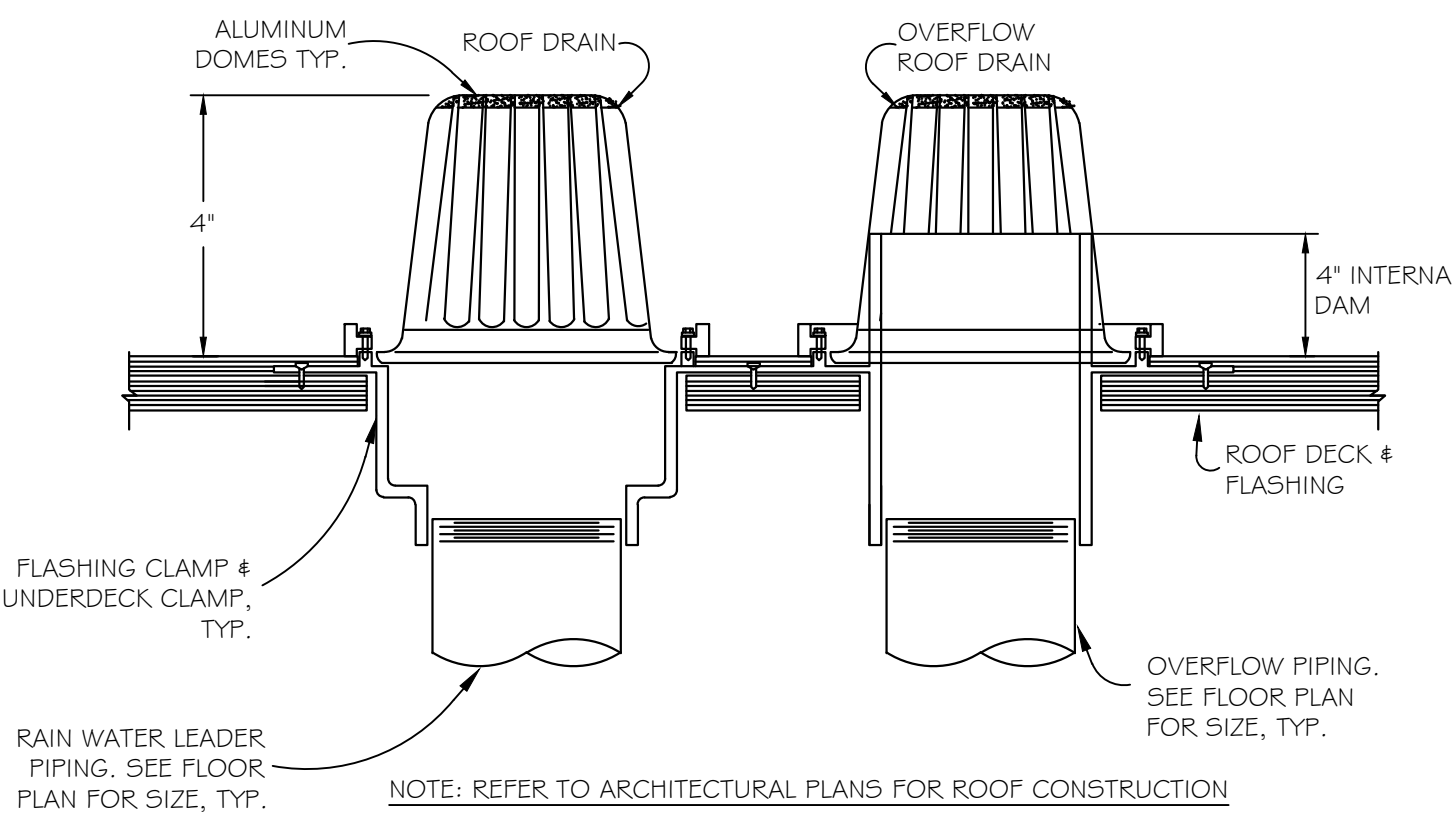
FILE NAME: P3.00 - PLUMBING ROOF PLAN.DWG  
DATE STAMP: 6/24/2024 4:53 PM



PLUMBING ROOF PLAN  
SCALE: 1/8" = 1'-0"



RTU CONDENSATE TRAP DETAIL  
SCALE: NOT TO SCALE



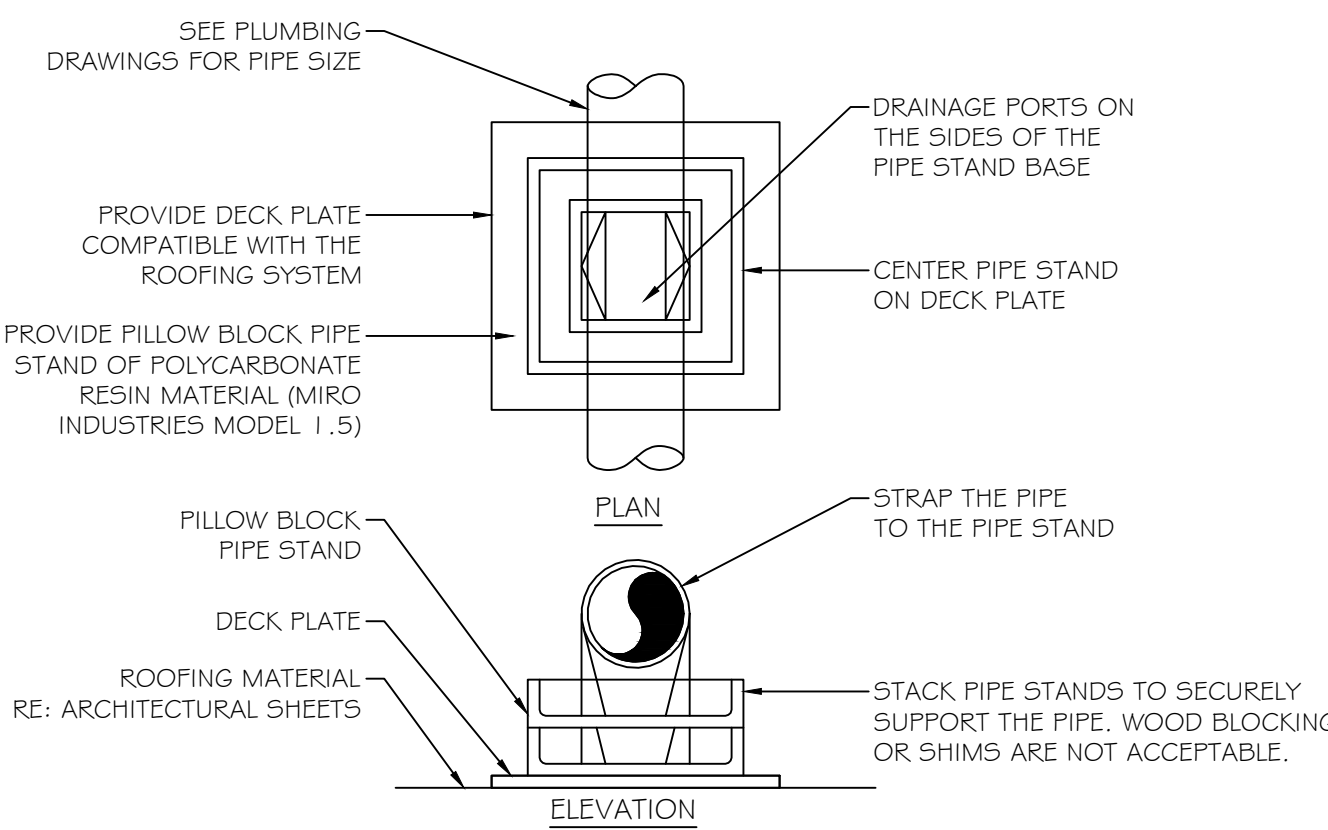
ROOF DRAIN AND OVERFLOW ROOF DRAIN DETAIL  
SCALE: NOT TO SCALE

## GENERAL NOTES

- CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION & INVERT ELEVATION OF ALL PIPING AND UTILITIES PRIOR TO START OF WORK. IN THE EVENT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO START OF WORK.
- ALL PIPING LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND OWNERS REPRESENTATIVE AND VERIFY EXACT ROUTING PRIOR TO START OF WORK.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- CONTRACT TO COORDINATE WITH OTHER TRADES/ DISCIPLINES DURING PIPING INSTALLATION IN CEILING SPACES.

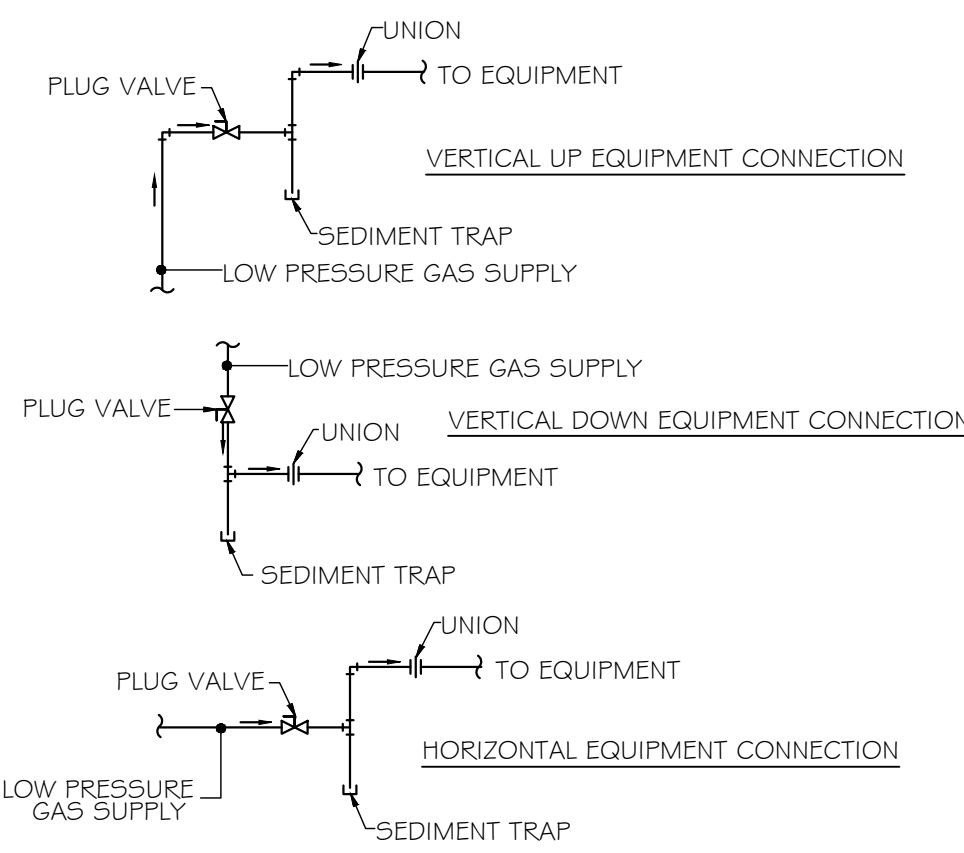
## SHEET KEY NOTES

- NEW 1" GAS CONNECT TO EXISTING 1-1/4" GAS MAIN. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND SIZE.
- SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL SHOWN ON THIS SHEET. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
- PROVIDE CONDENSATE TRAP ON RTU PER DETAIL SHOWN ON THIS SHEET.



## ROOFTOP PIPING SUPPORT DETAIL

SCALE: NOT TO SCALE



## LOW PRESSURE GAS EQUIPMENT CONNECTION DETAIL

SCALE: NOT TO SCALE

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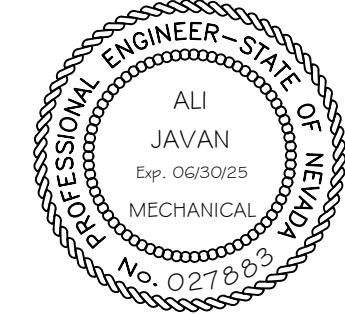
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REGISTRATION



DRAWING HISTORY

NO.	DESCRIPTION	DATE
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PROJECT NAME

NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION

1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER

1007689.00

SHEET TITLE

PLUMBING ROOF  
PLAN

SHEET NUMBER

P3.00


































































P SHEET 6 OF 6



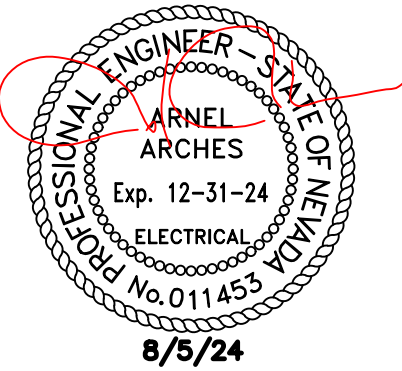
ELECTRICAL GENERAL NOTES		
1. THE DRAWINGS REPRESENT THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK. DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED.	19. CONTRACTOR SHALL PROVIDE PULL BOXES EVERY ONE HUNDRED FEET (100') TO EASE TENSION ON WIRE AND ALLOW FOR PROPER INSTALLATION OF CONDUCTORS.	
2. REVIEW ALL ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD.	20. FURNISH AND INSTALL PULL WIRE IN ALL EMPTY CONDUITS AND AUXILIARY SYSTEMS, TELEPHONE, SECURITY, FIRE ALARM SYSTEMS, DATA, AND TELEVISION, ETC. VERIFY PULL WIRE REQUIREMENTS WITH OTHER SYSTEM VENDORS. CAP ALL EXPOSED CONDUIT ENDS.	
3. THE DRAWINGS DO NOT INDICATE THE ACTUAL METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SUPERVISING AND DIRECTING ALL CONSTRUCTION WORK, MEANS, METHODS, TECHNIQUES, AND SEQUENCES.	21. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE WEATHERPROOF TYPE, NEMA 3R.	
4. ALL EXISTING JOB SITE CONDITIONS, DIMENSIONS, AND SERVICE REQUIREMENTS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE START OF CONSTRUCTION AND/OR FABRICATION OF MATERIALS. ANY DISCREPANCIES ENCOUNTERED SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD FOR CLARIFICATION.	22. WHERE MORE THEN ONE LIGHT SWITCH IS TO BE MOUNTED AT ONE LOCATION, MOUNT LIGHT SWITCHES IN A MULTIPLE GANG OUTLET BOX WITH A SINGLE COVER PLATE.	
5. CONTRACTOR TO ADJUST LOCATIONS OF WALL OUTLETS BOXES SHOWN ON DRAWINGS FOR RECEPTACLES, SWITCHES, AND FIRE ALARM DEVICES, ETC. TO ACCOMODATE FURNITURE, SHELVEING AND STACKING AS SHOWN ON THE ARCHITECTURAL DRAWINGS. IN ALL CASES, SWITCHES CONTROLLING LIGHTING ARE TO BE LOCATED ON THE STRIKE SIDE OF DOORS. LOCATION INDICATED FOR SWITCHES AND OUTLETS ARE APPROXIMATE. OWNER MAY MAKE MINOR RELOCATIONS AT NO ADDITIONAL CHARGE.	23. WHERE DISCONNECT SWITCHES ARE UNABLE TO BE MOUNTED DIRECTLY TO THE EQUIPMENT, THE CONTRACTOR SHALL PROVIDE AN APPROVED STRUCTURAL SOUND INDIVIDUAL MOUNTING SUPPORT. NO MODIFICATION SHALL BE DONE THAT WILL COMPRISE THE U.L. LISTING OR MANUFACTURER'S REQUIREMENTS OF THE EQUIPMENT.	
6. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND WORKMEN THE CLOSURE, PATCH, REPAIR OR REPLACEMENT OF ALL OPENINGS WHERE ITEMS HAVE BEEN REMOVED OR OPENED AS REQUIRED TO COMPLETE NEW WORK.	24. ALL ELECTRICAL POWER, LIGHTING, TELEPHONE AND OR SIGNAL WIRING INSTALLED THAT PENETRATES FIRE-RATED WALLS OR ENCLOSURES SHALL BE IN METALLIC CONDUIT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL FIRE-RATED PENETRATIONS AFFECTED AND PROVIDE U.L. LISTED INTIUVESCENT SEALANT AT ALL PENETRATIONS.	
7. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), GOVERNMENT LAWS, ORDINANCES, RULES AND REGULATIONS, AMENDMENTS ADOPTED BY THE LOCAL AUTHORITY, FEDERAL, STATE, AND LOCAL CODES HAVING JURISDICTION, AND LOCAL FIRE MARSHALL. IN THE EVENT OF CONFLICT BETWEEN THE ABOVE AUTHORITIES AND THESE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE SHALL GOVERN.	25. CONTRACTOR RESPONSIBLE FOR PAYING ALL PERMITS AND APPLICABLE FEES RELATIVE TO THE CONSTRUCTION OF THIS PROJECT.	
8. ALL WORK SHALL BE DONE IN THE BEST POSSIBLE MANNER AND WORKMANSHIP BASE ON STANDARD CONSTRUCTION PRACTICES.	26. MECHANICAL SPLIT SYSTEM HVAC UNITS INSTALLED IN ENCLOSED AREAS, CONTRACTOR TO PROVIDE AN APPROVED LAMP RECEPTACLE, A LIGHT SWITCH NEAREST TO ENCLOSURE OPENING AND A RECEPTACLE OUTLET NEXT TO FAN COIL UNIT AND CONNECT TO NEAREST RECEPTACLE CIRCUIT. PROVIDE NECESSARY CONTROLS, CONTRACTORS, AND OVERCURRENT PROTECTION TO FAN COIL PER MANUFACTURERS RECOMMENDATIONS.	
9. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL WORK REQUIRED TO CONNECT TO ALL SERVICE UTILITIES. CONTRACTOR SHALL VERIFY LOCATION AND INSTALLATION SHALL CONFORM TO ALL SPECIFICATIONS REQUIRED BY LOCAL UTILITIES.	27. CONTRACTOR TO VERIFY WITH ARCHITECT WALL DEPTH OF ALL WALLS CONTAINING FLUSH MOUNTED PANELBOARDS, INFORM ARCHITECT TO PROVIDE A MINIMUM OF SIX INCHES (6") WALL TO ACCOMMODATE PANELS. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL AN ADDITIONAL SIX (6) 1" SPARE CONDUITS STUBBED ABOVE CEILING FROM EACH ELECTRICAL PANELBOARD.	
10. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYSTEM AND PROVIDE ALL NECESSARY FINAL CONNECTIONS TO ALL EQUIPMENT.	28. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SIZING ALL CONDUIT PER NATIONAL ELECTRICAL CODE (NEC), WHERE DRAWNGS SHOW ONLY CONDUCTOR SIZE AND QUANTITY.	
11. CONDUIT ROUTING SHOWN ON DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT ROUTING OF CONDUIT SHALL BE DETERMINED BY THE CONTRACTOR, ANY ADDITIONAL COST REQUIRED BY THE ROUTING OF ADDITIONAL CONDUITS SHALL BE INCURRED BY THE ELECTRICAL CONTRACTOR.	29. CONTRACTOR TO VERIFY WITH ARCHITECTURAL REFLECTED CEILING PLANS AND DETERMINE EXACT LOCATION OF LIGHT FIXTURES PRIOR TO FRAMING. CONTRACTOR SHALL VERIFY WEIGHT OF ALL LIGHT FIXTURES AND PROVIDE THE NECESSARY ADDITIONAL SUPPORT, FRAMING, AND EARTH QUAKE WIRES AS REQUIRED PER LOCAL AUTHORITIES HAVING JURISDICTION.	
12. ALL EQUIPMENT AND MATERIALS FURNISHED, DELIVERED, AND INSTALLED SHALL BE NEW, IN PERFECT CONDITION, IN UNOPENED MANUFACTURER'S ORIGINAL CONTAINERS, AND OF THE HIGHEST QUALITY. STANDARD PRODUCTS SHALL BE FROM MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH EQUIPMENT AND MATERIALS, AND SHALL BE OF THE LATEST STANDARD DESIGN. MATERIAL AND EQUIPMENT SHALL BEAR APPROVAL BY U.L. LISTING AND OTHER APPROPRIATE AGENCIES.	30. CONTRACTOR SHALL MAINTAIN GROUND CONTINUITY TO EVERY OUTLET PER N.E.C., TABLE 250-122. PROVIDE A GREEN CONDUCTOR (NOT INDICATED) IN EACH RACEWAY. SIZE OF GROUNDING CONDUCTOR PER NEC ART 250.	
13. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL FIRE-RATED WALLS, CEILING AND ROOF ASSEMBLIES PENETRATED, ALL CORING, CUTTING, PATCHING, AND REFINISHING OF WALLS, SURFACES AND OPENINGS PENETRATED OR AFFECTED BY HIS INSTALLATION SHALL BE SEALED WITH U.L. LISTED SEALANT AT ALL PENETRATIONS. FURNISH AND INSTALL APPROVED EXPANSION FITTING WHERE RACEWAY CROSSES AN EXPANSION JOINT. HOWEVER, NO CUTTING AND/OR PENETRATION OF WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBER SHALL BE DONE WITHOUT THE CONSENT OF THE ARCHITECT.	31. ALL WIRES AND CABLES SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM. EXCEPT CONTROL WIRING WHICH SHALL BE #18 THWN. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTOR #8 AWG AND LARGER SHALL BE STRANDED. TYPE OF INSULATION AS NOTED ON DRAWINGS AND AS FOLLOWS: - THHN/THWN-2 INSULATION FOR ALL BRANCH CIRCUIT WIRING & CONTROL CIRCUIT WIRING. - XHHW-2 USED FOR ALL PANEL FEEDERS AND SERVICE CONDUCTORS. - THHN/THWN-2 INSULATION TYPE SHALL BE USED WHERE CONDUCTORS ARE INSTALLED IN CONDUITS EXPOSED TO THE WEATHER.	
14. ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND ADEQUATE LIGHTING AS REQUIRED.	32. ALL UNDERGROUND CONDUITS SHALL BE PVC OR PVC RGS. IN A TRANSIONAL RISER, ALL PARTS OF THE CONDUIT SYSTEM THAT IS BELOW GRADE SHALL BE RGS WRAP WITH 10 MIL TAPE UP TO 6" ABOVE GRADE.	
15. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS, CONTROL TRANSFORMERS, TIME CLOCKS, VALVES, T-STAT RELAYS AND DUCT SMOKE DETECTORS. PROVIDE ALL CONDUIT AND WIRING.	33. CONTRACTOR TO PROVIDE AN ARC FLASH STUDY IF REQUIRED BY THE AHJ. INSTALL PANEL WITH ARC FLASH WARNING LABEL AS REQUIRED BY THE CODE.	
16. ALL PAINTING OF LIGHT FIXTURES, WHERE SPECIFIED, SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER. SURFACES SHALL BE EVENLY COVERED WITH NO SAGS, DRIPS, OR SCRATCHES. DO NOT PAINT LENSES, BAFFLES, REFLECTORS, OR CHROME PARTS. DISASSEMBLE FIXTURES PRIOR TO PAINTING AND CLEAN PORTIONS TO BE PAINTED. PAINT SHALL BE SEMI- GLOSS ENAMEL. ALL PAINTING COLORS SHALL BE APPROVED BY ARCHITECT.		
17. PROVIDE SUFFICIENT GUTTER SPACES AS REQUIRED FOR PANELBOARDS, DISCONNECT SWITCHES, AND LUGS ETC. TO ACCOMMODATE CONDUCTORS ENTERING THE BOX. ALL GUTTER SHALL MEET U.L. LISTING REQUIREMENTS AND BE SIZED PER NATIONAL ELECTRICAL CODE (NEC).		
18. FURNISH AN APPROVED EXPANSION FITTING WHERE RACEWAY CROSSES AN EXPANSION JOINT.		


AUXILIARY SYSTEMS	
THIS PLAN SHOWS POWER AND LIGHTING ONLY. CONTRACTOR TO DESIGN/BUILD ALL OTHER AUXILIARY SYSTEM SUCH AS BUT NOT LIMITED TO THE FOLLOWING:	
1. TELEPHONE/DATA SYSTEM. 2. FIRE ALARM SYSTEM. 3. INTRUSION SYSTEM 4. SECURITY SYSTEM 5. ACCESS SYSTEM. 6. LOCKDOWN SYSTEM 7. TELEVISION/VIDEO SYSTEM	
COORDINATE REQUIREMENTS WITH THE OWNER.	

SHEET INDEX		ISSUED FOR PERMIT							
SHEET NUMBER:	SHEET NAME:	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
E1.00	ELECTRICAL GENERAL NOTES, SYMBOLS, ABBREV, DRAWING INDEX	X							
E2.00	SINGLE LINE DIAGRAM	X							
E3.00	PANEL SCHEDULES	X							
E4.00	DEMOLITION PLAN - 1ST FLOOR & 2ND FLOOR	X							
E5.01	POWER PLAN FIRST FLOOR - AREA 1 & 2	X							
E5.02	POWER PLAN SECOND FLOOR - AREA 1 & 2	X							
E6.01	LIGHTING PLAN FIRST FLOOR - AREA 1 & 2	X							
E6.02	LIGHTING PLAN SECOND FLOOR - AREA 1	X							
E7.00	IECC REQUIREMENTS	X							
E7.01	ATS AND PANEL EM DETAILS/SPEC SHEET	X							

ELECTRICAL SYMBOLS	
PLANS SYMBOLS	
 JUNCTION BOX  FUTURE EQUIPMENT  CONDUIT UNDER SLAB OR EARTH  CONDUIT CONCEALED IN WALLS  CONDUIT HOMERUN (LETTER(S) = PANELBOARD, # = CIRCUIT)	 MECHANICAL EQUIPMENT LEGEND: AC = AIR CONDITIONER CP = CIRCULATION PUMP CU = COOLING UNIT/COMPRESSOR UNIT EF = EXHAUST FAN FC = FAN COIL HP = HEAT PUMP WH = WATER HEATER
 DUPLEX GROUNDING TYPE RECEPTACLE +18" AFF COD UNO RECEPTACLE SUBSCRIPT LETTER TO INDICATE ITS' FUNCTION: C = ABOVE COUNTER HEIGHT D = DEDICATED CIRCUIT H = MOUNTED HORIZONTAL WP = WEATHERPROOF WR = GFCI RECEPTACLE WITH HEAVY DUTY WEATHER RESISTANT COVER IG = ISOLATED GROUND U = RECEPTACLE WITH 2 USB PORTS	 WEATHERPROOF SWITCH TWO POLE  WEATHERPROOF SWITCH  TWO POLE SWITCH  SINGLE POLE SINGLE THROW SWITCH ±48" AFF COD UNO  THREE-WAY SWITCH ±48" AFF COD UNO  FOUR-WAY SWITCH ±48" AFF COD UNO  DIMMER SWITCH +48" AFF COD (0-10Vdc)  LOWER CASE LETTER DESIGNATES FIXTURE(S) CONTROLLED
 GROUND FAULT PROTECTED RECEPTACLE ±42"AFF COD UNO  DOUBLE DUPLEX, 2 DUPLEXES GROUNDING TYPE RECEPTACLE +18" AFF COD UNO  DUPLEX GROUNDING TYPE RECEPTACLE SPLIT WIRED +18" AFF COD UNO  SINGLE GROUNDING TYPE RECEPTACLE. WIRED TYPE +18" AFF COD UNO, 120V OR 208V, 1 PH  CLOCK RECEPTACLE +72" AFF TOB UNO  DUPLEX RECEPTACLE MOUNTED ON CEILING.  DUPLEX RECEPTACLE MOUNTED ON FLOOR.  SINGLE RECEPTACLE MOUNTED ON FLOOR. VERIFY NEMA CONFIGURATION	 DOOR BELL  OUTLET BOX & FACE PLATE WITH SINGLE-GANG COAXIAL CABLE ADAPTER ±18" AFF TOB UNO (PROVIDE COAX CABLE TO CABLE BOX)  TELEPHONE TERMINAL BOARD  TELEPHONE TERMINAL CABINET
 SPECIAL PURPOSE OUTLET, 3 PHASE. TYPE TO MATCH EQUIPMENT PLUG  MOTOR OR EXHAUST FAN  PUSHBUTTON  PHOTOCELL  TIMECLOCK  DISCONNECT SWITCH  COMBINATION MOTOR STARTER  FUSED DISCONNECT SWITCH	 WALL MOUNTED COMBINATION TELEPHONE OR COMPUTER OUTLET WITH PLUG-IN TYPE MODULAR JACK +18" AFF COD UNO. RUN 3/4"CO TO TTB OR IT ROOM. NUMBER BESIDE SYMBOLS DENOTES NUMBER OF CABLES/PORTS. MINIMUM NUMBER OF CABLES/PORTS PER OUTLET IS 2 IF NO NUMBER IS SHOWN.  FLOOR MOUNTED COMBINATION TELEPHONE OR COMPUTER OUTLET WITH PLUG-IN TYPE MODULAR JACK RUN 3/4"CO TO TTB OR IT ROOM. NUMBER BESIDE SYMBOL DENOTES NUMBER OF CABLES/PORTS. MINIMUM NUMBER OF CABLE/PORTS PER OUTLET IS 2 IF NO NUMBER IS SHOWN  CEILING MOUNTED COMBINATION TELEPHONE OR COMPUTER OUTLET WITH PLUG-IN TYPE MODULAR JACK RUN 3/4"CO TO TTB OR IT ROOM. NUMBER BESIDE SYMBOLS DENOTES NUMBER OF CABLES/PORTS. MINIMUM NUMBER OF CABLES/PORTS PER OUTLET IS 2 IF NO NUMBER IS SHOWN.
 MAIN SWITCHBOARD OR DISTRIBUTION PANEL  ELECTRICAL PANELBOARD SURFACE MOUNTED  ELECTRICAL PANELBOARD FLUSH MOUNTED  LIGHTING CONTROL CABINET  METER  THERMOSTAT FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL CONTRACTOR	 SHEET KEY NOTE PROVIDE CONDUIT AND BOX AS REQUIRED PER FIRE ALARM SYSTEM DRAWING.  TAMPER SWITCH  FLOW SWITCH  DUCT DETECTOR  SMOKE DETECTOR  COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR  FIRE ALARM CONTROL PANEL  MANUAL PULL STATION
NOTES: CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH THE ARCHITECTURAL DRAWING. ADJUST AS REQUIRED TO AVOID BACK SPLASH, MIRROR, ETC. ONLY THE NUMBER AND SIZE OF CONDUITS ARE SHOWN ON PLANS. CONTRACTOR TO BE RESPONSIBLE FOR SIZING CONDUIT PER NEC	
 HORN STROBE  HORN ONLY	
ONE-LINE DIAGRAM AND SCHEMATIC SYMBOLS	
 SINGLE THROW SWITCH  FUSE  C.T.'S (CURRENT TRANSFORMER)  P.T.'S (POTENTIAL TRANSFORMER)  CIRCUIT BREAKER  MOTOR OVERLOADS	 METER  AMMETER  VOLTMETER  RELAY  TIME DELAY RELAY  TRANSFORMER


FIRE ALARM SYSTEM	
CONTRACTOR TO DESIGN/BUILD/RETROFIT/EXTEND THE EXISTING FIRE ALARM SYSTEM AS REQUIRED TO THE NEW/RETROFITTED ROOMS	
ACCESS CONTROL SYSTEM	
CONTRACTOR TO DESIGN/BUILD/RETROFIT/EXTEND THE EXISTING ACCESS CONTROL SYSTEM AS REQUIRED TO THE NEW/RETROFITTED ROOMS	





CLIENT


[T]  
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ARCHITECT



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DRAWING HISTORY		
NO.	DESCRIPTION	DATE

PROJECT NAME  
NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION  
1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER  
1007689.00

SHEET TITLE  
SYMBOLS  
GENERAL NOTES

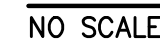
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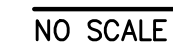
## ARCHITECT



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1 REMOVED COMBINATION PANEL ATS AND IT'S ATS. DISCONNECT AND PROTECT ALL FEEDER WIRES AND SAVE FOR REUSE.



①	NOT USED
②	PROVIDE AN EPO SHUTDOWN SWITCH PER NEC 445.18(B)
③	ATS TO BE OPEN TRANSITION TYPE. SHOULD BE PROGRAMMED TO ONLY TRANSFER POWER BACK TO UTILITY SOURCE AFTER 10 MINUTES AND WHEN THE UTILITY POWER STABILIZED .

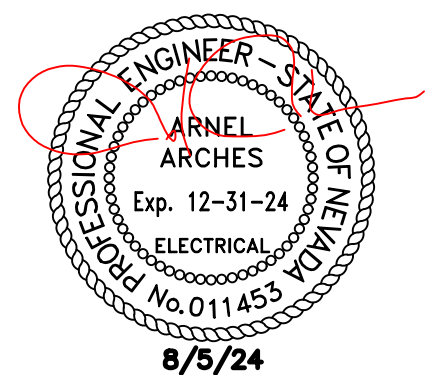
THIN LINES DENOTES EXISTING ITEMS TO REMAIN. THICK LINES DENOTES NEW WORK

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DRAWING HISTORY		
NO.	DESCRIPTION	DATE

SHEET NUMBER

€2.00







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DRAWING HISTORY

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CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION  
1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER  
1007689.00

SHEET TITLE  
PANEL SCHEDULES

SHEET NUMBER

E3.00

## FLUSH MTD

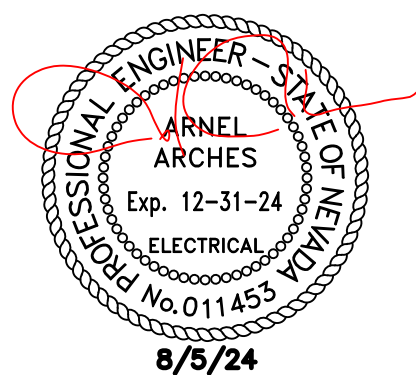
<b>PANEL: EM</b>		PANEL VOLTAGE: 208/120 3 $\phi$ 4 W	CIRCUIT CODE: blank or N : NON-CONTINUOUS
DATE: 04/16/24 TIME: 16:20:13		BUS: 400A	L : LONG-CONTINUOUS
JOB: X		MAINS: MLO	R : DEMANDABLE RECEPTACLES
AIC RATING: 50,000A		K : KITCHEN	NO. OF EQUIPMENT: 0
		CIRCUIT CODE: blank or N : NON-CONTINUOUS	
		L : LONG-CONTINUOUS	
		R : DEMANDABLE RECEPTACLES	
		K : KITCHEN	
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		R : DEMANDABLE RECEPTACLES	
		K : KITCHEN	
		NO. OF EQUIPMENT: 0	
		CIRCUIT CODE: blank or N : NON-CONTINUOUS	
		L : LONG-CONTINUOUS	
		R : DEMANDABLE RECEPTACLES	
		K : KITCHEN	
		NO. OF EQUIPMENT: 0	
		CIRCUIT CODE: blank or N : NON-CONTINUOUS	
		L : LONG-CONTINUOUS	
		R : DEMANDABLE RECEPTACLES	
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		NO. OF EQUIPMENT: 0	
		CIRCUIT CODE: blank or N : NON-CONTINUOUS	
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		K : KITCHEN	
		NO. OF EQUIPMENT: 0	





- 1 CONTRACTOR TO REMOVE ALL POWER, LIGHTING AND DATA RECEPTACLES UP TO SOURCE WITHIN THE HATCHMARK
- 2 CONTRACTOR TO REMOVE ALL WALL PACKS AND RECEPTACLES WITHIN THE HATCHMARK.
- 3 EXISTING VACCINE PANEL. SHOWN FOR INFO ONLY.
- 4 EPO SWITCH
- 5 REMOVE EXISTING ATS/PANEL IN THIS AREA PER DEMOLITION SINGLE LINE DIAGRAM.
- 6 INSTALL NEW ATS AND PANEL "EM" IN THIS AREA PER PROPOSED SINGLE LINE DIAGRAM. CONTRACTOR TO MAKE SURE ALL REQUIRED NEC WORKING CLEARANCES ARE MET
- 7 REMOVE MECHANICAL UNITS ON THE ROOF. REMOVE WIRES UP TO SOURCE. CONDUIT CAN REMAIN FOR REUSE OF NEW EQUIPMENT
- 8 G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
- 9 RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
- 10 G.C. SHOULD PROTECT OCCUPIED AREAS FROM DUST, NOISE AND INTERRUPTION DURING CONSTRUCTION.
- 11 THE CONTRACTOR SHALL MAINTAIN EXISTING ACCESS TO ALL EMERGENCY ENTRANCES AND SHALL NOT BLOCK ACCESS.
- 12 CONTRACTOR SHALL INFORM THE OWNER PRIOR TO ANY DEMOLITION AND SHALL SCHEDULE SUCH DEMOLITION IN A MANNER NOT TO INTERFERE WITH THE OWNER'S OPERATIONS AS OUTLINED IN AN AGREED PHASING PLAN AND SCHEDULE. ANY LOUD NOISE TYPE ACTIVITIES (I.E. CONCRETE SAW CUTTING, JACK HAMMERING) WILL NEED TO OCCUR OUTSIDE OF REGULAR BUSINESS HOURS.

1. CONTRACTOR TO MAINTAIN THE CIRCUIT INTEGRITY OF ALL REMAINING RECEPTACLES/LIGHTS AFTER THE REMOVALS OF ALL WALLS/CEILING DURING THE PERFORMANCE OF THIS PROJECT.







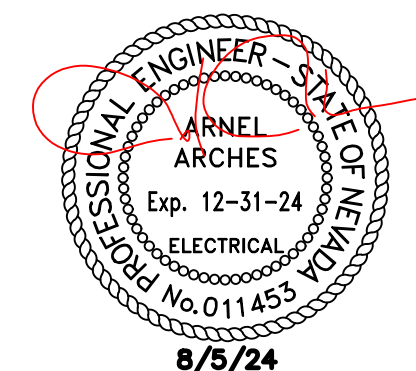
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3. RECEPTACLES IN AREAS OTHER THAN PATIENT CARE SHALL BE TAMPER RESISTANT
4. INSTALLATION FOR THIS PROJECT SHALL CONFORM TO ARTICLE 517 OF THE NEC 2017. (IE DOUBLE GROUND WIRE, ETC)
5. ALL RECEPTACLES IN PATIENT CARE AREA SHALL BE HOSPITAL GRADE
6. PROVIDE CONTROL WIRING AND CONDUIT FOR HVAC AS REQUIRED BY THE MECHANICAL DRAWINGS, INCLUDING BUT NOT LIMITED TO, TSTAT, DUCT DETECTOR, HORN STROBE, ETC. PROVIDE HORN STROBE FOR DUCT DETECTOR SMOKE DETECTION IF REQUIRED BY AUTHORITY HAVING JURISDICTION. DETECTION OF SMOKE TO SHUT THE HVAC UNIT.
7. IF HVAC IS PROVIDED WITH A DUCT DETECTOR. PROVIDE A 120V CIRCUIT TO THE DUCT DETECTOR AND CONNECT TO AVAILABLE SPARE BREAKER OF THE NEAREST PANEL.
8. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
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- 1 DOOR BELL RINGER
- 2 DOOR CHIME
- 3 PLUG MOLD

- ⑨ 115V Electrical duplex, 1-6" A.F.F.
- ⑩ 115V Electrical duplex, 1-6" A.F.F. on separate circuit for refrigerator
- ⑪ 115V Electrical quad, 3-6" A.F.F.
- ⑫ 115V Electrical quad, 1-6" A.F.F.
- ⑬ 115V Electrical quad, with a 2-3/4" extension box, 4" - 2" A.F.F. to the bottom of the box mounted on the ceiling for installation of
- ⑭ each 115V Electrical Quads, from power pole (supplied by electrical contractor). Locate each quad in an open space under separate sides of the filling island after installation of the Island. Confirm each location with owner
- ⑮ 115V Elec. duplex mounted in the ceiling tile, separate 20 amp circuit for Pharmacy Antineoplastic, based on specifications of manufacturer
- ⑯ 115V Electrical Quad, with a 2-3/4" extension box, 1-6" A.F.F. on separate circuit mounted on the ceiling for installation of
- ⑰ 115V Electrical service, 46" A, F, F. to the bottom of the junction box with a 2-3/4" extension box with a 4" whip of 12/2 M.C. cable, and 11" plug mold mounted above the backslap on the 11 ft. auxiliary countertop after installation of fixtures. Plug mold supplied by electrical contractor.
- ⑱ 115V Electrical service, 46" A, F, F. to the bottom of the junction box with a 2-3/4" extension box with a 4" whip of 12/2 M.C. cable, and 8" plug mold mounted above the backslap on the 6 ft. auxiliary countertop by the walk-up service window after installation of fixtures. Plug mold supplied by electrical contractor.
- ⑲ 115V Ground Fault Electrical service, 46" A, F, F. to the bottom of the junction box with a 4" whip of 12/2 M.C. cable, and 8 ft. plug mold mounted above the backslap on the 13 ft. auxiliary sink countertop after installation of fixtures. Plug mold supplied by electrical contractor.
- ⑳ Duplex CAT 6 data outlet with RJ45 connectors, in a junction box, 18" A.F.F. Punched down and verified for connectivity to data center
- ㉑ Triple CAT 6 data outlet with RJ45 connectors in junction box, with 2-3/4" extension box, 1-6" A.F.F. to the bottom of the box. Punched down and verified for connectivity to data center
- ㉒ 4 each Quad CAT 6 data outlets with RJ45 connectors, from power pole through the solid ceiling boxes mounted under the 12 ft. RX filling island in the openings. Please confirm location with owner. Punched down and verified for connectivity to data center
- ㉓ Data line CAT 6, with single RJ45 wall outlet in the ceiling tile with connection to data center verified (For Parada Map, based on specifications of manufacturer)
- ㉔ Duplex CAT 6 data outlet with RJ45 connectors, in a junction box, 4-0" A.F.F. Punched down and verified for connectivity to data center
- ㉕ Door Bell Ringer
- ㉖ Door Bell Chime, 2 ft below ceiling

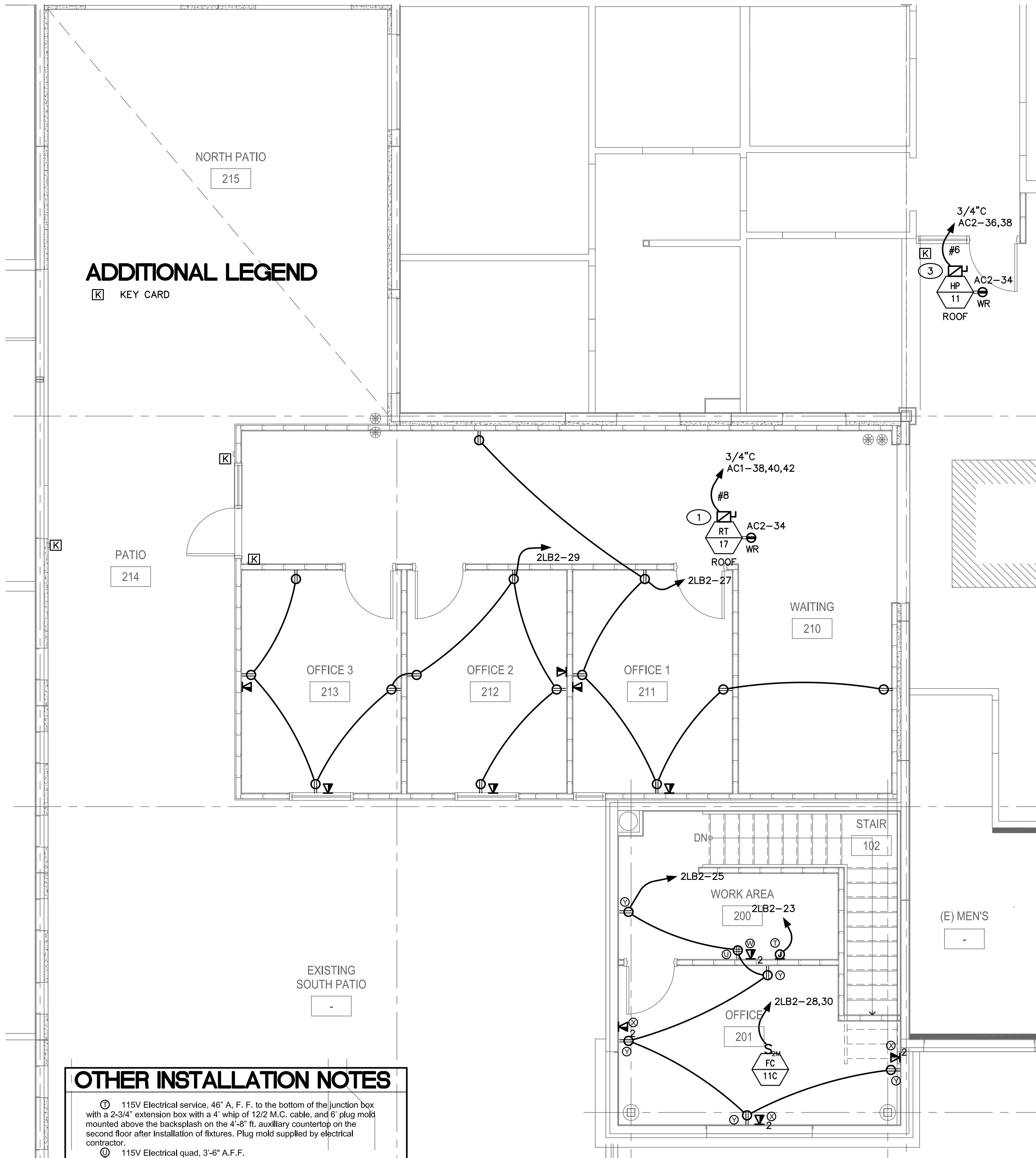
SEE CLIENT POWER AND DATA DWG FROM CLIENT FOR EXACT LOCATION, HEIGHT AND OTHER REQUIREMENTS OF POWER AND DATA RECEPTACLES

ALL HEIGHT MEASUREMENT SHOWN HERE IS FROM THE BOTTOM OF THE DEVICE.

SHEET NUMBER

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DATE STAMP: 9/5/2024 11:13:58 AM

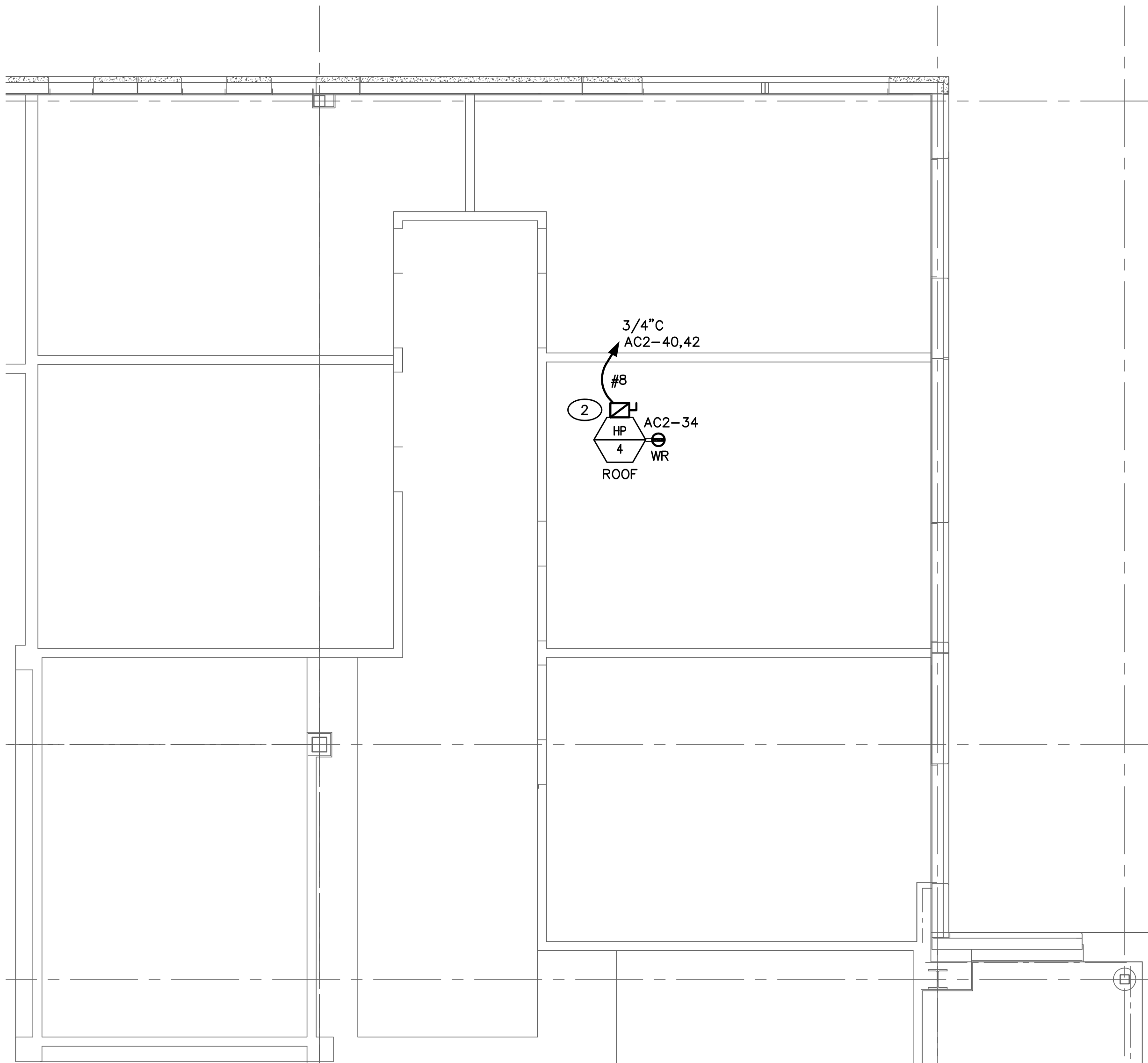




**OTHER INSTALLATION NOTES**

- ① 115V Electrical service, 46" A. F. F. to the bottom of the junction box with a 2-3/4" extension box with a 4' whip of 12/2 M.C. cable, and 6" plug mold mounted above the backslash on the 4'-8" ft. auxiliary countertop on the second floor after installation of fixtures. Plug mold supplied by electrical contractor.
- ② 115V Electrical quad, 3'-6" A.F.F.
- ③ Quad CAT 6 data outlet with RJ45 connectors, in a junction box, 4'-0" A.F.F. Punched down and verified for connectivity to data center
- ④ Duplex CAT 6 data outlet with RJ45 connectors, in a junction box, 18" A.F.F. Punched down and verified for connectivity to data center
- ⑤ 115V Electrical duplex, 1'-6" A.F.F.

POWER PLAN - SECOND FLOOR - AREA 1  
SCALE: 1/4"=1'-0"



POWER PLAN - SECOND FLOOR - AREA 2  
SCALE: 1/4"=1'-0"

**SHEET GENERAL NOTES**

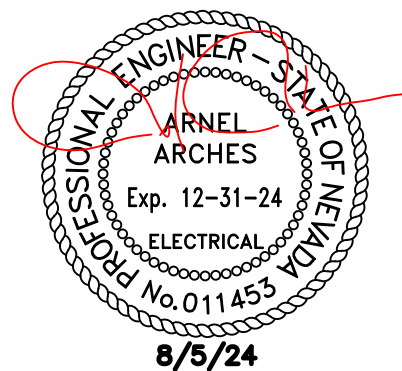
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**SHEET NOTES**

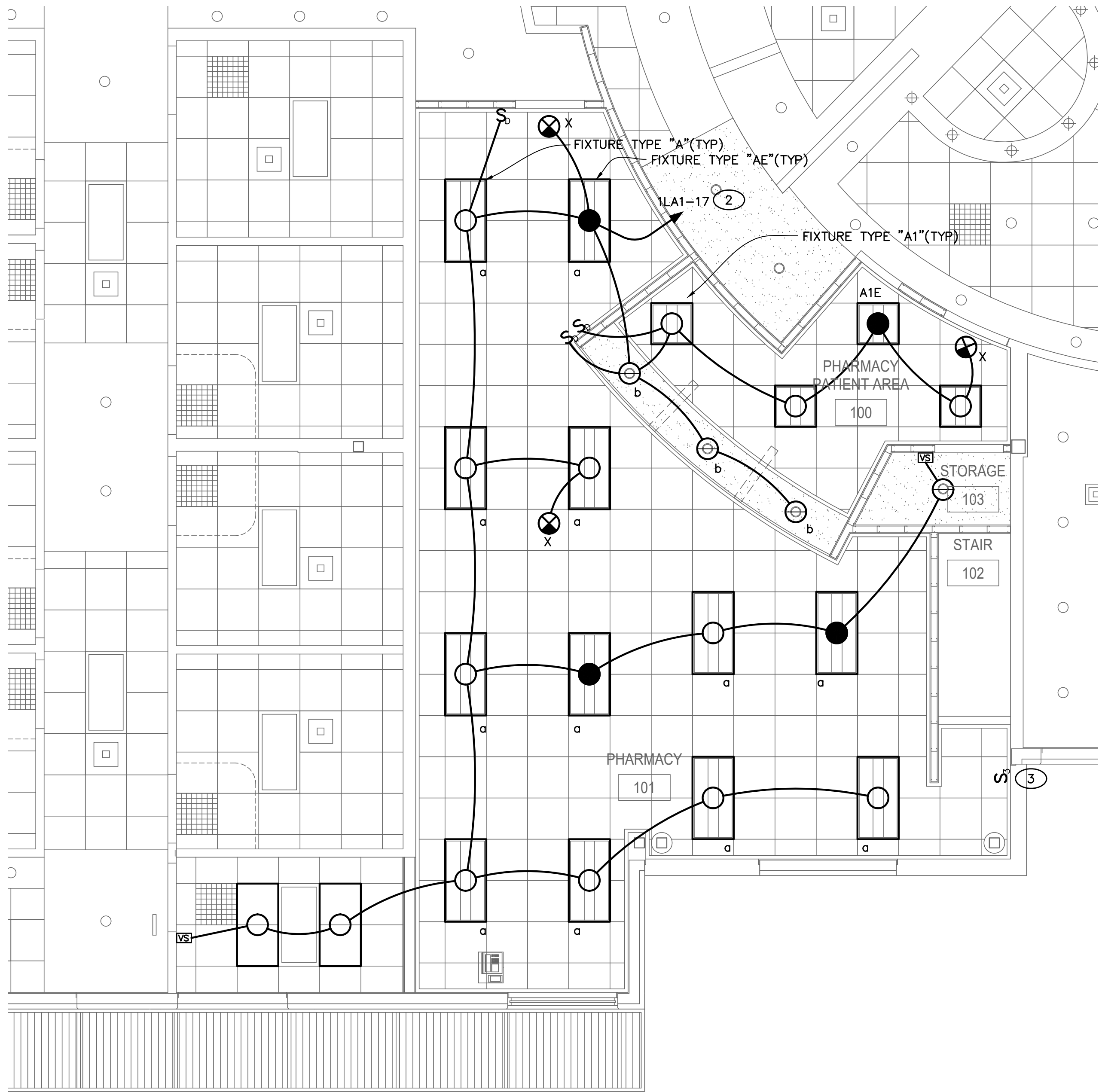
- ① 60AS/35AF/3P/3R FUSED DISCONNECT SWITCH.
- ② 60AS/35AF/2P/3R FUSED DISCONNECT SWITCH.
- ③ 60AS/45AF/2P/3R FUSED DISCONNECT SWITCH.

**IMPORTANT NOTES**

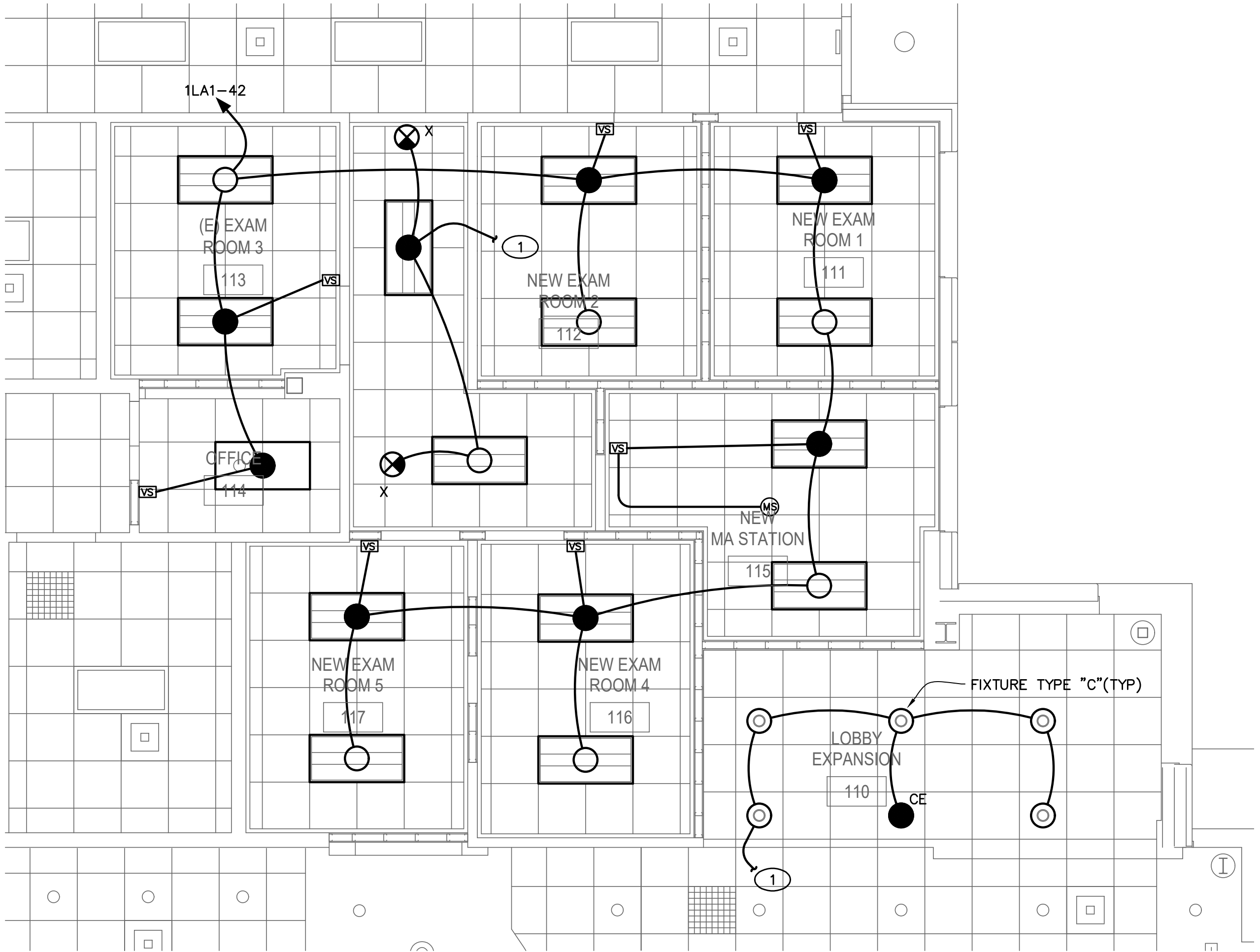
SEE CLIENT POWER AND DATA DWG FROM CLIENT FOR EXACT LOCATION, HEIGHT AND OTHER REQUIREMENTS OF POWER AND DATA RECEPTACLES  
ALL HEIGHT MEASUREMENT SHOWN HERE IS FROM THE BOTTOM OF THE DEVICE.







LIGHTING PLAN - FIRST FLOOR - AREA 1  
SCALE: 1/4"=1'-0"



LIGHTING PLAN - FIRST FLOOR - AREA 2  
SCALE: 1/4"=1'-0"

### SHEET GENERAL NOTES

1. PROVIDE DOUBLE HOT WIRE FOR ALL CIRCUITS CONNECTED TO EMERGENCY FIXTURES. DOUBLE HOT WIRE NOT SHOWN BUT MUST BE PROVIDED. SEE ENERGY MANAGEMENT PANEL WIRING DIAGRAM.
2. ONLY THE CIRCUIT NUMBERS AND HOMERUNS ARE SHOWN. CONTRACTOR TO BE RESPONSIBLE FOR DETERMINING THE NUMBER OF WIRES AND CONDUIT SIZE BASED ON NEC TO MEET THE INTENT OF THE PLAN. THEY SHALL BE CIRCUITED TO MINIMIZE VOLTAGE DROP. HOMERUNS CAN BE COMBINE UP TO A MAX OF THREE CIRCUITS. PROVIDE UNSWITCHED LEG FOR EMERGENCY AND EXIT LIGHTS
3. CONTRACTOR TO MAINTAIN THE CIRCUIT INTEGRITY OF ALL REMAINING RECEPTACLES/LIGHTS AFTER THE REMOVALS OF ALL WALLS/CEILING DURING THE PERFORMANCE OF THIS PROJECT.
4. WHERE A SWITCH CONTROL A LIGHTING LOAD, A GROUNDED CIRCUIT CONDUCTOR SHALL BE PROVIDED AT THE SWITCH.
5. G.C. TO FIELD VERIFY ALL EXISTING CONDITIONS.
6. RESTRICT CONSTRUCTION ACTIVITIES AND STAGING TO LIMITS OF CONSTRUCTION UNLESS OTHERWISE APPROVED BY OWNER.
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- VS WALL MOUNTED VACANCY SENSOR. DUAL TECHNOLOGY.  
VSD WALL MOUNTED VACANCY SENSOR AND DIMMER (0-10V). DUAL TECHNOLOGY.  
MS CEILING MOUNTED MOTION SENSOR. LINE VOLTAGE

### SHEET NOTES

1. CONNECT TO EXISTING AREA LIGHTING.
2. REUSE EXISTING CIRCUIT. VERIFY IF CIRCUIT IS CONNECTED TO EXISTING LIGHTING CONTROL PANEL RP. PROVIDE UNSWITCHED LEG. PROVIDE SEPARATE CIRCUIT AND ADDITIONAL RELAY IF NOT.
3. THREE WAY SWITCH TO CONTROL STAIR LIGHTS.

CLIENT



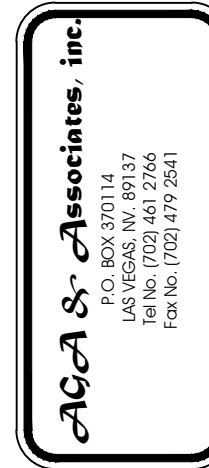
[T]  
[F]  
ARCHITECT



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PGAL TBPE REG. NO: F-2742

CONSULTANT



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DRAWING HISTORY  
NO. DESCRIPTION DATE

PROJECT NAME  
NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

PROJECT LOCATION  
1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

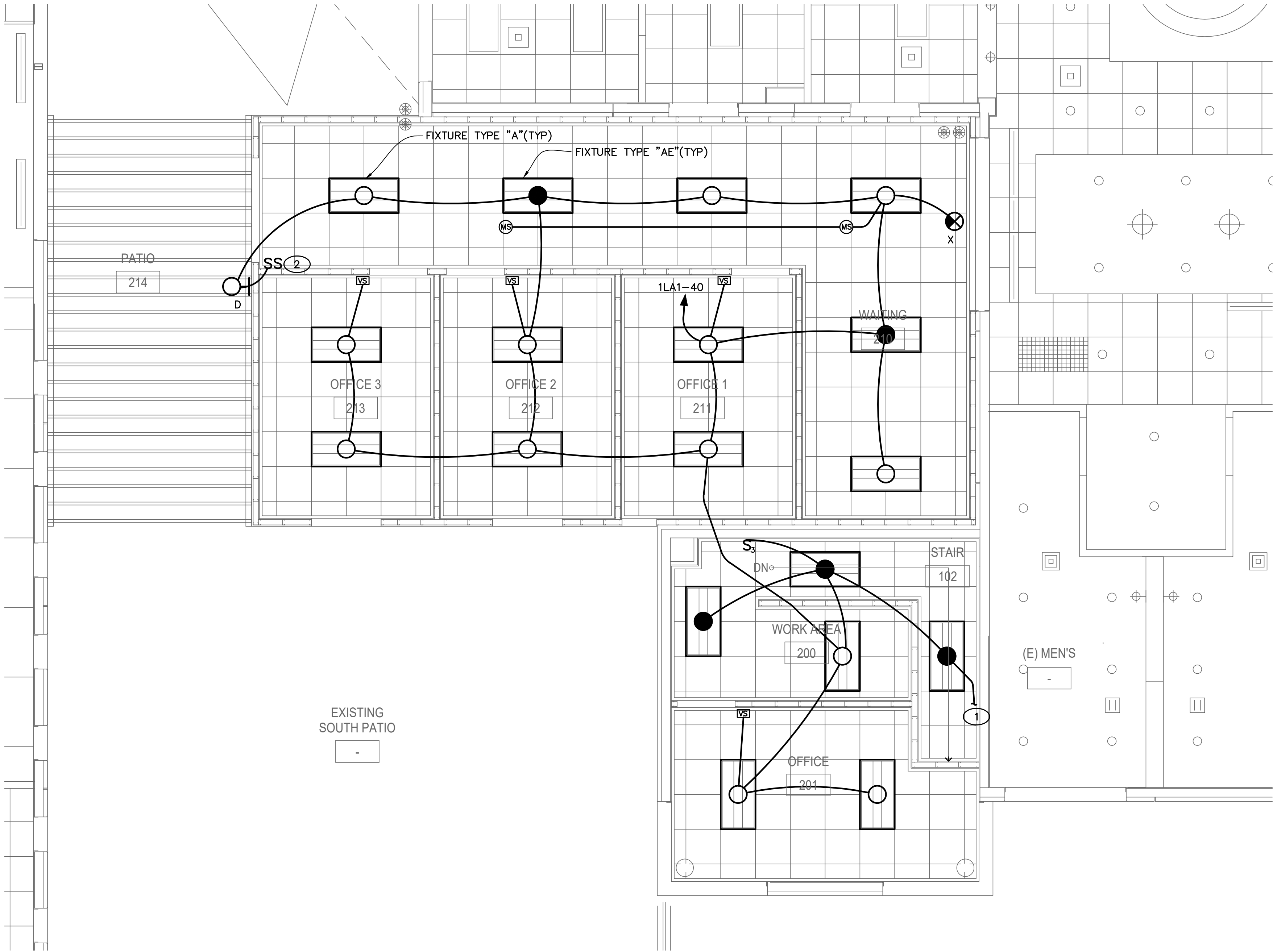
PROJECT NUMBER  
1007689.00

SHEET TITLE  
LIGHTING PLAN  
FIRST FLOOR  
AREA 1 AND  
AREA 2

SHEET NUMBER

E6.01





LIGHTING PLAN - SECOND FLOOR - AREA 1

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

SHEET GENERAL NOTES

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- VS0 WALL MOUNTED VACANCY SENSOR AND DIMMER (0-10V). DUAL TECHNOLOGY.
- MS CEILING MOUNTED MOTION SENSOR. LINE VOLTAGE

SHEET NOTES

- TO THREE WAY SWITCH BELOW
- NEW SWITCH TO CONTROL THE EXISTING WALL PACKS ON THE EXTERIOR WALL

CLIENT



[T]  
[F]  
ARCHITECT



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PGAL TBPE REG. NO: F-2742

CONSULTANT



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DRAWING HISTORY		
NO.	DESCRIPTION	DATE

PROJECT NAME  
NEVADA HEALTH  
CENTERS MLK  
FAMILY HEALTH

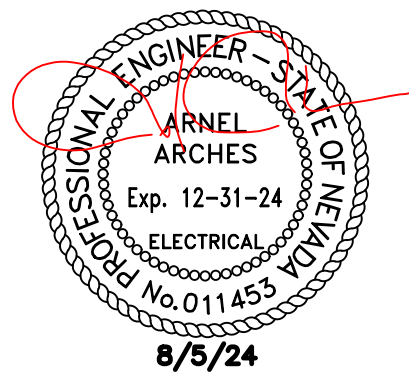
PROJECT LOCATION  
1799 Mt. Mariah Dr.  
Las Vegas, NV 89106

PROJECT NUMBER  
1007689.00

SHEET TITLE  
LIGHTING PLAN  
SECOND FLOOR  
AREA 1

SHEET NUMBER

E6.02





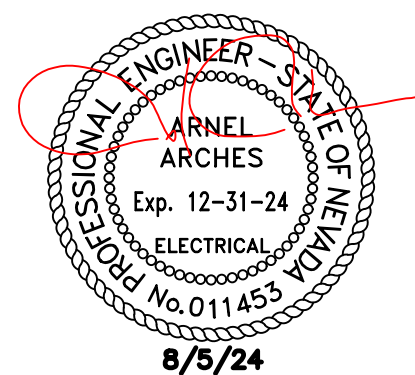
PGAL TBPE REG. NO: F-2742

**AGA & Associates, inc.**  
P.O. BOX 370114  
LAS VEGAS, NV 89137  
Tel No. (702) 461 2766  
Fax No. (702) 479 2541

DRAWING HISTORY		
Nº.	DESCRIPTION	DATE

PROJECT	LOCATION
1799 Mt. Mariah Dr.	Las Vegas, NV 89106

SHEET NUMBER



E7.00

FILE NAME 24089 ELEC NEVADA HEALTHCWS  
DATE STAMP 8/5/2024 11:13:31 AM



