

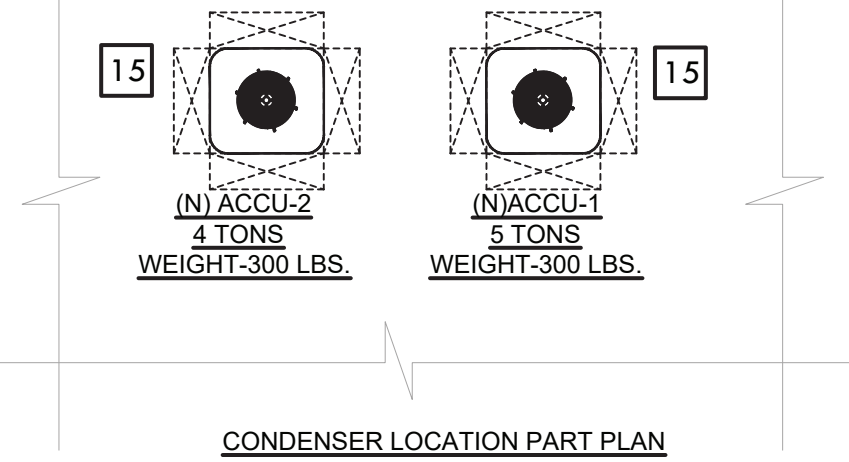
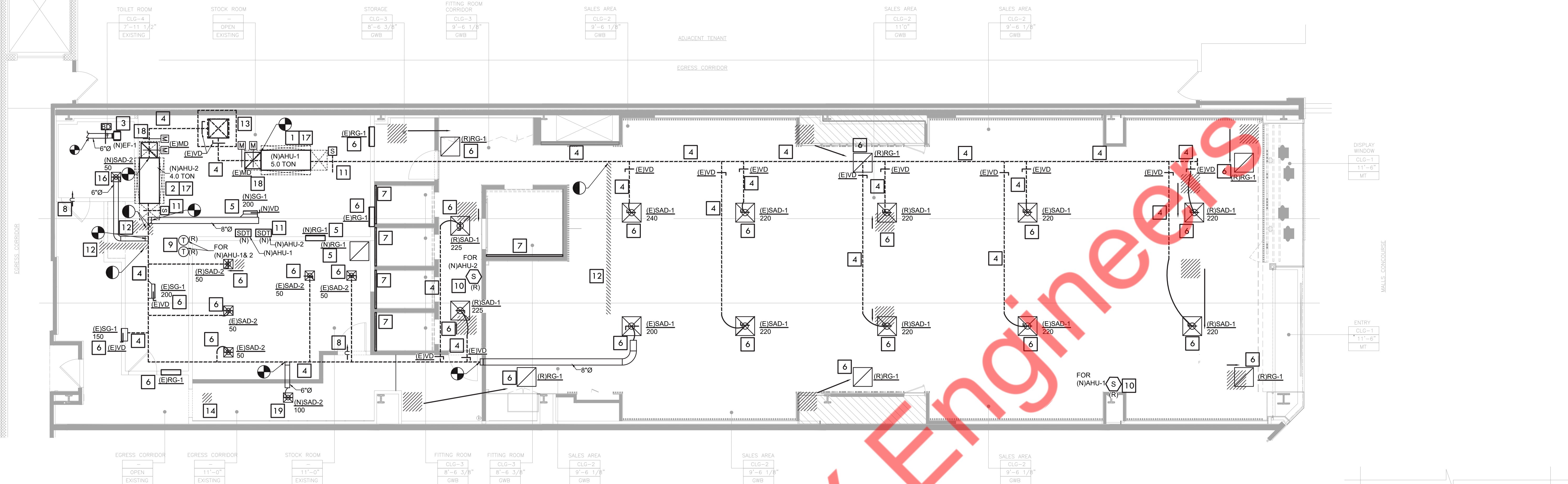




ALL PENETRATIONS OF THE BATIO CONSTRUCTION MUST BE REVIEWED PER MANUFACTURER'S DETAILS OF THE ISOLANT. THE DETAILS SHALL MEET OR EXCEED RATINGS OF CONSTRUCTION 60PC PENETRATED PENETRATION DETAILS SHALL BE EXACTLY AS TESTED BY AN APPROVED TESTING LABORATORY OR AGENCY AND SHALL INCLUDE THEIR SYSTEM NUMBERS.

TENANT SHALL SECURE A CONTRACT FOR FACTORY RECOMMENDED MAINTENANCE AND SERVICE OF THE HVAC UNITS SERVING THE PREMISES. A COPY OF THIS CONTRACT MUST BE DELIVERED TO THE LANDLORD'S ON-SITE MANAGEMENT STAFF PRIOR TO STORE OPENING.

FILTERS MUST BE CHANGED AND ALL DUCT DETECTORS, IF TESTING, MUST BE CLEANED WHEN YOUR BUILD-OUT CONSTRUCTION IS COMPLETED.



Reuse of existing RTU/AHU is subject to landlord approval. May reuse only if landlord approved make, model, size and controls. Verify if allowed to reuse with Mall Operations Manager. If allowed to reuse, must refurbish to "like new" condition and provide one year warranty. If required to replace, must select and install new Trane RTU/AHU. RTU/AHU selection must be approved by the landlord prior to ordering. Verify all work required by the landlord with Mall Operations Manager prior to bid.

Reuse of existing waste, vent and water piping, water meter, water heater, fixtures, floor slab waterproofing, etc. is subject to building dept. and landlord approval. Verify if allowed to reuse, and if any work is required by the building dept. or the landlord with the building dept., the tenant's architect and Mall Operations Manager prior to bid.

Tenant is required to upgrade toilet room (include floor slab waterproofing) and plumbing so as to comply with current building codes and landlord requirements. Must be ADA/ANSI compliant. Verify if any work if required with building dept., the tenant's architect, and Mall Operations Manager prior to bid.

Tenant GC must comply with all comments from local energy provider or as directed by their field personnel.

Superintendent must provide 3 copies of air balance report to on-site Tenant Coordinator before leaving the property upon construction completion.

Cover all air intakes during construction to prevent dust from entering the unit.

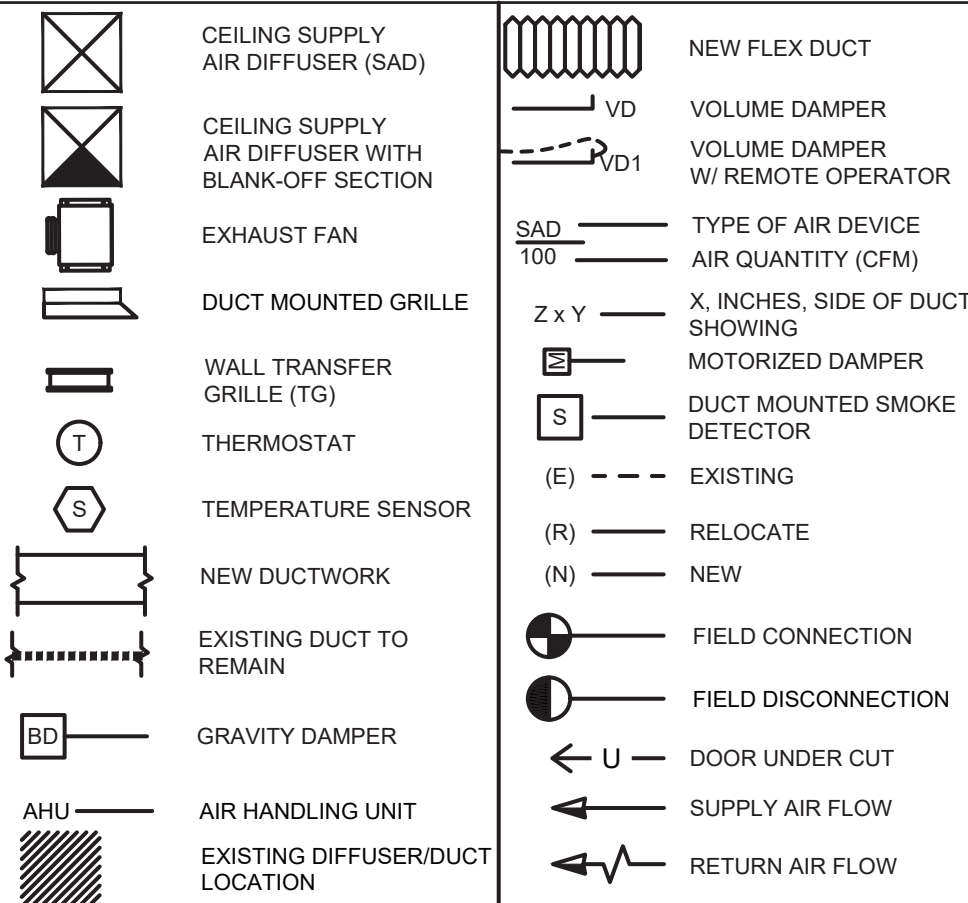
GC must change filters upon construction completion.

Commercial roofing required for all roof penetrations.

Hot work permit must be obtained from Landlord 24 hr in advance of Hot Work. A New Hot Work permit must be obtained each day that hot work will be performed.

1 MECHANICAL PLAN

MECHANICAL LEGEND



KEY NOTES

- INSTALL (N)AHU-1 AS PER MANUFACTURER SPECIFICATIONS. COORDINATE FINAL LOCATION OF EQUIPMENT WITH STRUCTURAL DRAWINGS. PROVIDE CLEARANCES AS RECOMMENDED BY THE MANUFACTURER. PROVIDE DRIP PAN, LEAK DETECTOR, AND CONDENSATE PUMP. PROVIDE SERVICE CLEARANCE AS PER MANUFACTURER'S SPECIFICATION.
- INSTALL (N)AHU-2 AS PER MANUFACTURER SPECIFICATIONS. COORDINATE FINAL LOCATION OF EQUIPMENT WITH STRUCTURAL DRAWINGS. PROVIDE CLEARANCES AS RECOMMENDED BY THE MANUFACTURER. PROVIDE DRIP PAN, LEAK DETECTOR, AND CONDENSATE PUMP. PROVIDE SERVICE CLEARANCE AS PER MANUFACTURER'S SPECIFICATION.
- PROVIDE NEW EXHAUST FAN WITH GRAVITY DAMPER & CONNECT TO EXISTING DUCTWORK. COORDINATE EXACT LOCATION, DISTANCE, & CONNECTION POINT IN FIELD. ENSURE TERMINATION OF THE EXHAUST DUCT AT ROOF PROVIDED WITH GOOSENECK AND INSECT SCREEN AND MINIMUM 10' AWAY FROM ANY FRESH AIR INTAKE.
- EXISTING DUCTWORK TO REMAIN, CONTRACTOR SHALL CLEAN AND REFURBISH TO "LIKE NEW" CONDITION. VERIFY EXACT LOCATION, ROUTE AND SIZE IN FIELD, PATCH AND SEAL DUCTWORK AIRTIGHT. INSPECT, PATCH, REPAIR, AND/OR REPLACE INSULATION AS REQUIRED. COORDINATE IN FIELD PRIOR TO BID.
- CONTRACTOR TO PROVIDE SUPPLY/RETURN AIR DIFFUSER/GRILL ALONG WITH ALL ACCESSORIES AND VOLUME CONTROL DAMPER AS SHOWN ON PLAN WITH THE SAME KIND. CONTRACTOR SHALL BALANCE THE CFM AS SHOWN ON PLAN. COORDINATE WITH ARCHITECT/CLIENT FOR FINAL COLOR, STYLE, FINISH, FRAME ETC.
- EXISTING SUPPLY/RETURN DIFFUSER/GRILL TO REMAIN/RELOCATE ALONG WITH ALL ACCESSORIES AND VOLUME CONTROL DAMPER. VERIFY SIZE, LOCATION ON FIELD, CLEAN AND REFURBISH TO "LIKE NEW" CONDITION. IF FOUND ANY DAMAGE, REPLACED WITH THE SAME KIND. CONNECT TO THE EXISTING BRANCH DUCT. EXTEND/MODIFY THE BRANCH DUCT AS SHOWN IN THE PLAN. CONTRACTOR SHALL BALANCE CFM OF ALL EXISTING SUPPLY DIFFUSERS/GRILLES AS SHOWN ON PLAN. IN ABSENCE OF EXISTING VOLUME CONTROL DAMPER PROVIDE NEW VOLUME CONTROL DAMPER. VERIFY IN FIELD PRIOR TO BID.
- CONTRACTOR TO PROVIDE CEILING GAP AT THE FITTING ROOM AS SHOWN ON PLAN. COORDINATE WITH ARCHITECTURAL CEILING PLAN FOR AIR GAP SIZE AND LOCATION.
- CONTRACTOR TO PROVIDE 1" DOOR UNDERCUT FOR AIR TRANSFER.
- EXISTING THERMOSTAT TO BE RE-USED/RELOCATED. CONTRACTOR TO VERIFY IN FIELD, REPLACE IN KINDS IF DAMAGED.
- EXISTING TEMPERATURE SENSORS TO BE RE-USED & RELOCATED. CONTRACTOR TO VERIFY IN FIELD, REPLACE IN KINDS IF DAMAGED. COORDINATE WITH EXISTING UNIT MANUFACTURER FOR COMPATIBLE CONTROLS AS REQUIRED.
- CONTRACTOR SHALL CLEAN AND REFURBISH EXISTING DUCT SMOKE DETECTOR IN SUPPLY AIR DUCTWORK TO "LIKE NEW" CONDITION. ENSURE SMOKE DETECTOR IS IN GOOD WORKING ORDER. REPLACE IN KINDS IF DAMAGED. PROVIDE NEW IF REQUIRED. WIRE BACK TO NEW SMOKE DETECTOR (SDT) LOCATED IN BOH.
- DISCONNECT AND DEMOLISH THE DIFFUSER/GRILL ALONG WITH BRANCH DUCT, PATCH AND SEAL MAIN DUCTWORK AIRTIGHT. INSPECT, PATCH, REPAIR, AND/OR REPLACE INSULATION AS REQUIRED. COORDINATE IN FIELD PRIOR TO BID.
- CONTRACTOR TO FIELD VERIFY WORKING CONDITION OF ECONOMIZER SETUP AND CONTROLS. INTERCONNECT THE ECONOMIZER SETUP WITH THE NEW AHU. ENSURE EXISTING ECONOMIZER SETUP IS IN GOOD WORKING ORDER REPLACE IN KINDS IF DAMAGED. CONTRACTOR TO MAKE SURE THE OUTSIDE AIR DAMPER IS SET TO PROVIDE MINIMUM OA DURING NORMAL OPERATION.
- CONTRACTOR TO REMOVE & SCRAP EXISTING RETURN AIR DIFFUSER.
- CONTRACTOR TO COORDINATE WITH THE LL FOR FINAL LOCATION OF THE CONDENSER UNIT. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. ROUTE THE REFRIGERANT PIPE AS PER MANUFACTURER'S SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION OF REFRIGERANT PIPE CONDUITS ALLOTTED FOR THE SPACE.
- PROVIDE NEW SUPPLY AIR DIFFUSER WITH VOLUME CONTROL DAMPER. BALANCE THE CFM AS SHOWN ON PLAN.
- CONTRACTOR SHALL RUN 1" CONDENSATE LINE FROM EACH AHU TO SINK WITH AIR GAP FITTING AS APPROVED BY LOCAL CODE OR APPROVED LANDLORD LOCATION. COORDINATE IN FIELD.
- CONTRACTOR TO REUSE THE EXISTING MIXING BOX AND CONNECT TO THE NEW AHU. CONTRACTOR SHALL CLEAN AND REFURBISH TO "LIKE NEW" CONDITION. VERIFY EXACT LOCATION IN FIELD.
- CONTRACTOR TO REMOVE & SCRAP EXISTING RETURN AIR DIFFUSER & PROVIDE NEW SUPPLY DIFFUSER ALONG WITH ALL DUCTING, ACCESSORIES AND VOLUME CONTROL DAMPER AS SHOWN ON PLAN WITH THE SAME KIND. CONTRACTOR SHALL BALANCE THE CFM AS SHOWN ON PLAN.

NEW SMOKE DETECTOR TEST STATION

SDT REMOTE TEST STATION WITH AUDIBLE AND VISUAL ALARM FOR DUCT SMOKE DETECTOR AS REQUIRED BY CODE OR LOCAL JURISDICTION MANUFACTURED BY SIMPLEX MODEL 4098-9842. MOUNT AT A MIN. OF 48" AFF.

CONSULTANTS (ENGINEER):

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DATE	ISSUE
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03/24/25	PERMIT SET

DATE	REVISION
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AIX  
ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025  
PROJECT NUMBER: 12402-25  
AREA: 4,440 SQ. FT.  
DRAWN BY: NYE REVIEWED BY: NYE

TITLE:

MECHANICAL  
PLAN

SHEET NUMBER:

M2.0



INDOOR HEAT PUMP UNIT SCHEDULE																				BASIS OF DESIGN:TRANE (OR EQUIVALENT)			
UNIT TAG	LOCATION	ODU	AREA SERVED	TYPE	CAP. (TON)	COOLING MBH	HEATING MBH @47 Deg.F	HEATING MBH @17 Deg.F	TOTAL CFM (MAX.)	MAX. ESP. (IN. WG)	OUTSIDE AIR(CFM)	MAX. SOUND PRESS.(DBA)	ELECTRICAL DATA (AHU)			DIMENTIONS (HxWxD)	PIPE SIZE			WEIGHT (LBS.)	MODEL NO.		
													PH/VOLT/HZ	MCA	MOCp		UNIT	LIQ.	SUCTION			DRAIN (ID)	
(N) AHU-1	SEE PLAN	(N) ACCU-1	SEE PLAN	AIR HANDLER	5.0	55.7	52	34.8	2000	1	460	44	1/208/60	7	15	22X25X62	3/8"	7/8"	1"	230	STAM5D06AC41 (OR EQUIVALENT)		
(N) AHU-2	SEE PLAN	(N) ACCU-2	SEE PLAN	AIR HANDLER	4.0	44.9	44	28.4	1600	1	370	44	1/208/60	5	15	22X25X57	3/8"	7/8"	1"	230	STAM5D05AC31 (OR EQUIVALENT)		
NOTES:																							
1) SUPPLY AIR CFM BASED ON HIGH STATIC.																							
2) REFRIGERANT R-454B OR R-32 SHALL BE PROVIDED.																							
3) PROVIDE MOUNTING BRACKETS AND ALL ASSOCIATED ACCESSORIES.																							
4) ALL REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.																							
5) PROVIDE MERV 13 FILTER ON ALL RETURNS TO UNIT.																							
6) INDOOR UNIT ACCESS PANEL FIELD-PROVIDED.																							
7) PROVIDE SPRING MOUNTED VIBRATION ISOLATORS FOR UNITS.																							
8) PROVIDE DRIP PAN , LEAK DETECTOR & CONDENSATE PUMP.																							

OUTDOOR HEAT PUMP UNIT SCHEDULE																	BASIS OF DESIGN: TRANE (OR EQUIVALENT)			
UNIT TAG	LOCATION	INDOOR UNITS SERVED	CAP.TR	COOLING MBH	HEATING MBH @47 Deg.F	HEATING MBH @17 Deg.F	TYPE	UNIT DIMENSIONS IN.(HxWxD)	WEIGHT (LBS)	PIPING DIMENSION		ELECTRICAL			SOUND LEVEL (DBA)	EER2	SEER2	HSPF2	MODULE NO.	
										LIQUID-HI PRESSURE	GAS LOW- PRESSURE	(V/Hz/Ph)	MCA	MOP						
(N) ACCU-1	AS SHOWN	(N) AHU-1	5	55.7	52	34.8	HEAT PUMP	46X38X35	300	3/8"	7/8"	460/60/3	11	15	74	11.7	14.3	7.5	STWA4060A4 (OR EQUIVALENT)	
(N) ACCU-2	AS SHOWN	(N) AHU-2	4	44.9	44	28.4	HEAT PUMP	46X38X35	300	3/8"	7/8"	460/60/3	9.4	15	74	11.7	15	7.7	STWA4048A4 (OR EQUIVALENT)	
NOTES:																				
1) UNIT SHALL HAVE TEN YEAR EXTENDED WARRANTY FOR COMPRESSORS/PARTS.																				
2) PROVIDE COMPRESSOR CYCLE PROTECTOR.																				
3) PROVIDE CONDENSING UNIT MOUNTING PAD.																				
4) CONTRACTOR SHALL PROVIDE A LONG LINE SET FOR REFRIGERANT PIPING IN THE EVENT THAT TOTAL REFRIGERANT LENGTH EXCEED THE MANUFACTURER'S STANDARD RECOMMENDED LENGTH.																				
5) PROVIDE COMPRESSOR THERMAL PROTECTION , COMPRESSOR OVERCURRENT DETECTION AND FAN MOTOR OVERHEATING/VOLTAGE PROTECTION.																				
6) REFRIGERANT R-454B OR R-32 SHALL BE PROVIDED.																				

FAN SCHEDULE													
TAG	MANUFACTURER	MODEL	LOCATION	AREA SERVED	FAN PERFORMANCE							WEIGHT LBS	CONTROL
					CFM	ESP	FAN RPM	FLA	VOLTS	PHASE	HZ		
(N) EF-1	GREENHECK	SP-A390-VG	SEE PLAN	SEE PLAN	70	0.5	1299	1.5	115	1	60	25	WALL SWITCH
NOTES & ACCESSORIES:													
1. PROVIDE FAN WITH GRILLE, VIBRATION ISOLATORS, DISCONNECT SWITCH, INTEGRAL BACKDRAFT DAMPER, & ALL ACCESSORIES REQUIRED BY VENDOR FOR PROPER OPERATION.													
2. INTERLOCK WITH LIGHT SWITCH/OCCUPANCY SENSOR.													

BUILDING AIR BALANCE				
UNIT TAG	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AIR
(N) AHU-1	2000	460	1540	-
(N) AHU-2	1600	370	1230	-
(N) EF-1	-	-	-	70 CFM
TOTAL:	3600 CFM	830 CFM	2770 CFM	70 CFM
BUILDING PRESSURE:			760 CFM	POSITIVE

VENTILATION CALCULATION AS PER CALIFORNIA ENERGY CODE 2022 - TABLE 120.1-A & 120.1-B						
ROOM NAME	AREA (SQ.FT.)	AREA OUTDOOR AIR RATE (CFM/SQ.FT)	REQUIRED OA (CFM)	PROVIDED OA (CFM)	EXHAUST AIRFLOW RATE (CFM/SQ.FT)	TOTAL EXHAUST (CFM)
SALES AREA	2406	0.25	602	605	0	0
FITTING AREA	172	0.15	26	30	0	0
FITTING ROOM-1	45	0.15	7	10	0	0
FITTING ROOM-2	25	0.15	4	5	0	0
FITTING ROOM-3	25	0.15	4	5	0	0
FITTING ROOM-4	25	0.15	4	5	0	0
FITTING ROOM-5	25	0.15	4	5	0	0
FITTING ROOM-6	59	0.15	9	10	0	0
STOCK AREA	426	0.15	64	65	0	0
STORAGE	260	0.15	39	40	0	0
CORRIDOR-1	162	0.15	24	25	0	0
CORRIDOR-1	166	0.15	25	25	0	0
REST ROOM	64	0	0	0	70	70
TOTAL	3860	-	810	830	-	70

AIR TERMINAL SCHEDULE							
TAG	MANUFACTURER	MODEL	TYPE	CFM RANGE	NECK SIZE	NOMINAL FACE SIZE	REMARKS
(N) SD-2	TITUS	TMS	SUPPLY DIFFUSER	0-200	6" DIA	12"X12"	CEILING MOUNT
NOTES:							
1. BORDER TYPE TO BE COMPATIBLE WITH CEILING/WALL TYPE.							
2. COLOR AND FINISH TO BE REVIEWED AND APPROVED BY THE ARCHITECT.							
3. PROVIDE OPPOSED BLADE DAMPER AS ACCESSARY FOR ALL AIR TERMINAL FOR AIR BALANCING OR ELSE PROVIDE DAMPER IN DUCTS WHERE LOCATED IN INACCESSIBLE AREAS, PROVIDE CABLE OPERATED DAMPER LOCATED IN THE BRANCH, OPERABLE THROUGH THE FACE OF THE DIFFUSER (KEY OPERATED).							
4. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.							

CONSULTANTS (ENGINEER):  
**NY ENGINEERS**

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**A|X**  
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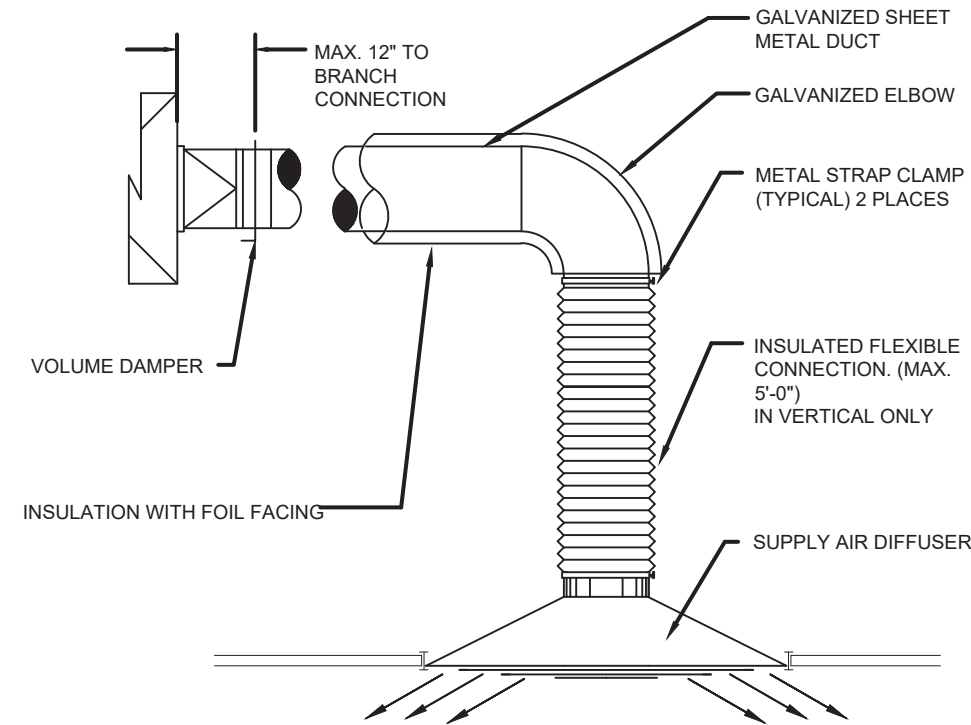
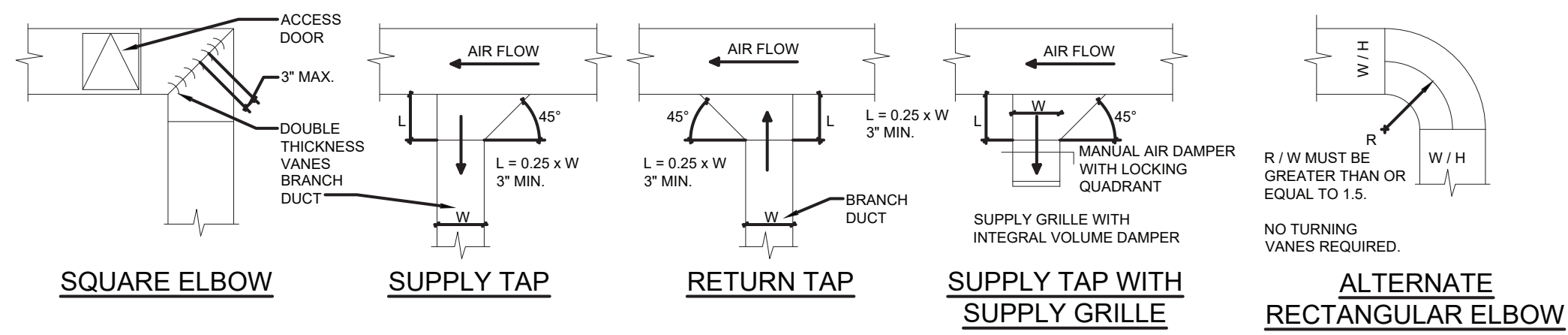
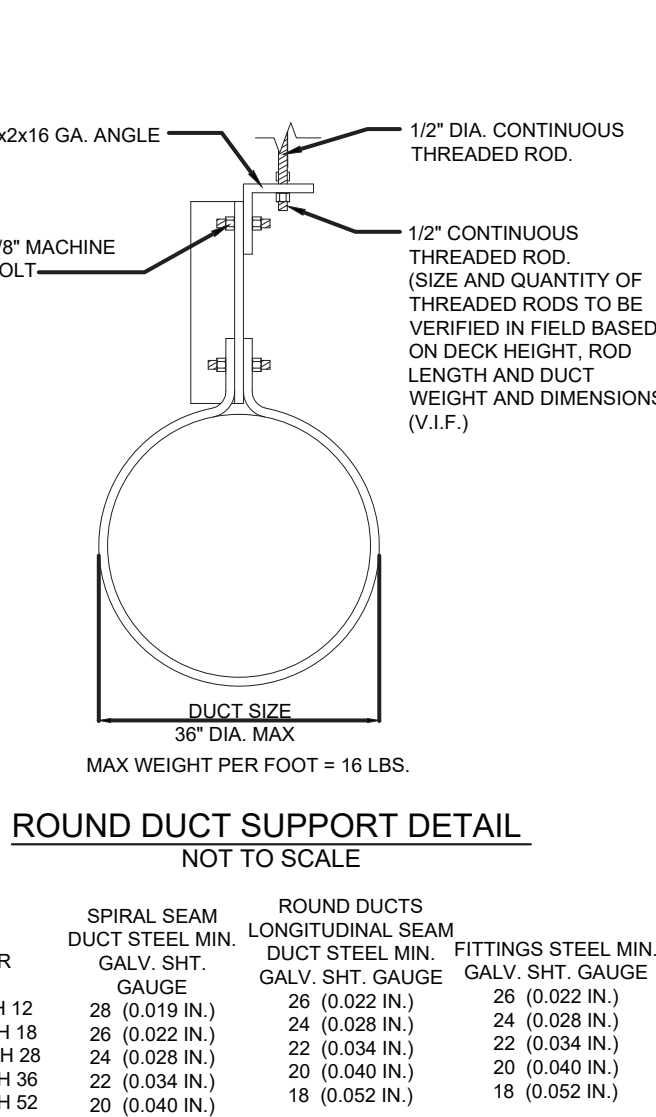
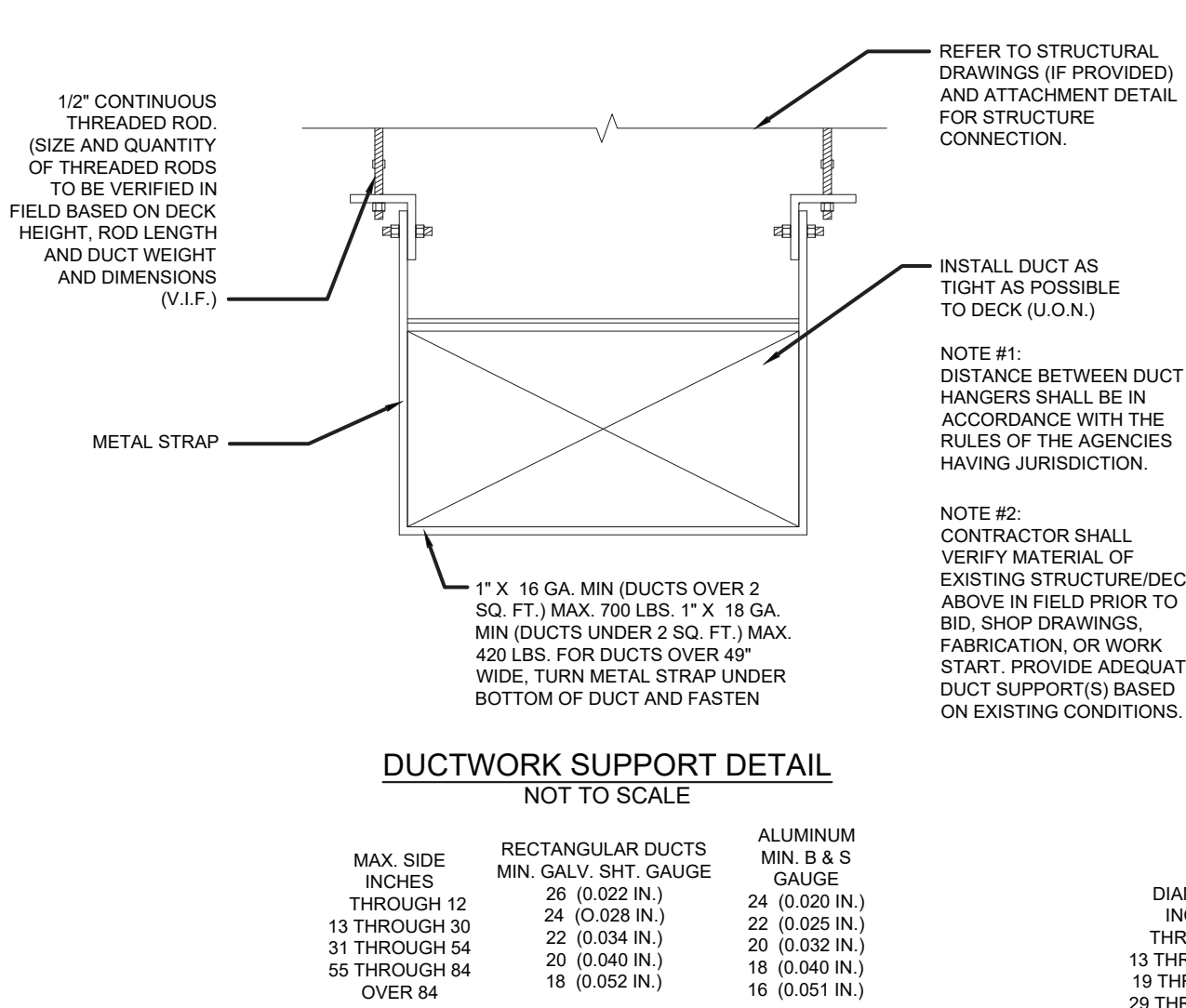
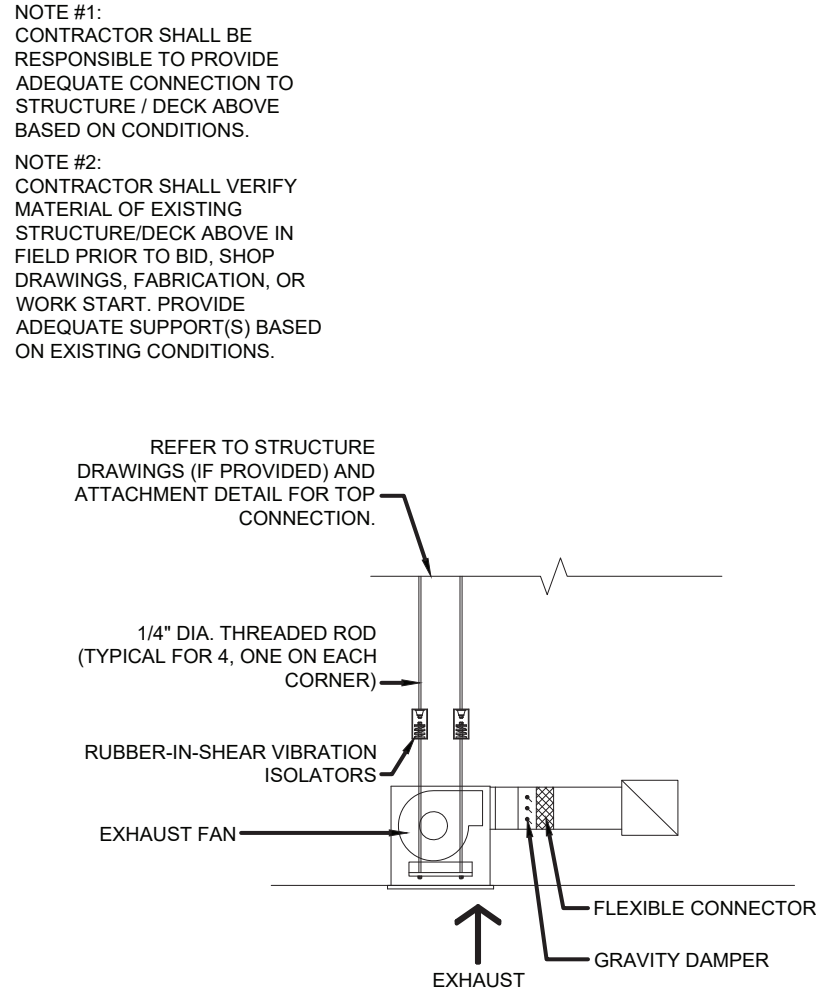
TITLE:

MECHANICAL  
SCHEDULES

SHEET NUMBER:

M3.0





CEILING EXHAUST FAN DETAIL

SCALE  
NTS

1

DUCT SUPPORT DETAIL

SCALE  
NTS

2

STANDARD DUCTWORK DETAILS

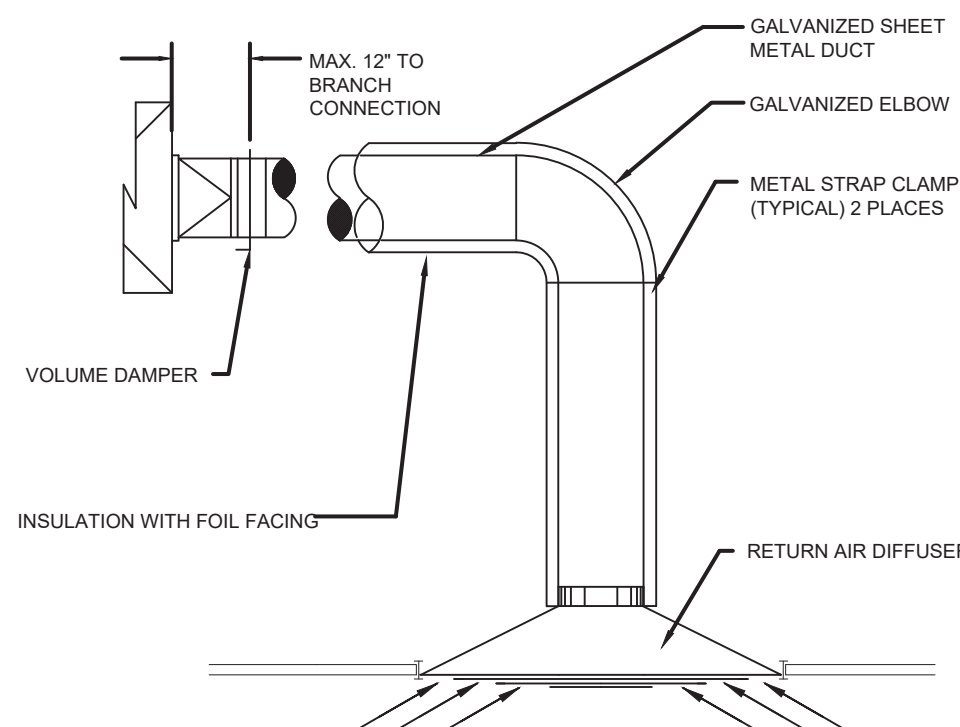
SCALE  
NTS

3

STANDARD SUPPLY DIFFUSER DETAILS

SCALE  
NTS

4



STANDARD RETURN DIFFUSER DETAILS

SCALE  
NTS

5

STANDARD AC CONDENSATE DRAIN PAN DETAILS

SCALE  
NTS

6

STANDARD AC INSTALLATION DETAILS

SCALE  
NTS

7

STANDARD CONDENSING UNIT MOUNTING DETAILS

SCALE  
NTS

8

Property of NY Engineers

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DRAWN BY: NYE REVIEWED BY: NYE

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MECHANICAL  
DETAILS

SHEET NUMBER:

M4.0



ELECTRICAL GENERAL NOTES

A. GENERAL REQUIREMENTS

1. GENERAL CONDITIONS: ALL CONDITIONS AND REQUIREMENTS UNDER THE "GENERAL CONDITIONS", THE SUPPLEMENTAL CONDITIONS, THE SPECIAL CONDITIONS, THE CONDITIONS OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE CLIENT IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND
2. GENERAL: THE WORK UNDER THIS SECTION SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT AND INCIDENTAL COSTS NECESSARY TO FURNISH AND INSTALL ALL ELECTRICAL WORK, EQUIPMENT, LAMPS, ETC. INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN, OR BOTH.
- A. THE ELECTRICAL SUBCONTRACTORS QUOTING ON THEIR SPECIFIC SCOPE OF WORK / SERVICES TO CONTACT THE LOCAL BUILDING DEPARTMENT / AGENCY TO DISCUSS CODE ISSUES / IDIOSYNCRASIES REGARDING THEIR SERVICES AND THE QUOTE ASSOCIATED WITH THE SERVICES TO THE GENERAL CONTRACTOR FOR THIS PROJECT. THIS CONTRACTOR TO BE FAMILIAR WITH THE SITE WHERE SUCH SERVICES / WORK WILL BE PERFORMED, THIS SPECIFIC USE AND THE IDIOSYNCRASIES ASSOCIATED WITH THE LIFE, SAFETY AND HEALTH ASSOCIATED WITH THIS WORK AND TO INDICATE ON THE QUOTE ANY ITEMS REQUIRED THAT ARE NOT NECESSARILY SHOWN ON THE DRAWINGS / SPECIFICATIONS.
3. THE TENANTS GENERAL CONTRACTOR AND/OR HIS ELECTRICAL SUBCONTRACTOR IS TO VERIFY ALL EQUIPMENT SPECIFICATIONS AND REQUIREMENTS WITH THE TENANT OR THE TENANTS CONSTRUCTION REPRESENTATIVE PRIOR TO START OF CONSTRUCTION. THIS CONTRACTOR TO VERIFY AMPERAGE AND VOLTAGE SPECIFICATIONS AND REQUIREMENTS (SERVICE AND PANEL SPECIFICATION) WITH THE ELECTRICAL SUBCONTRACTOR IN COORDINATION WITH EQUIPMENT SPECIFICATIONS FOR EQUIPMENT SUPPLIED BY THE TENANT. THE CONTRACTORS OR OTHER SOURCES (AS SPECIFIED BY THE ARCHITECT) AS A DOUBLE CHECK TO ASCERTAIN PROPER INSTALLATION OF EQUIPMENT AT THE CORRECT VOLTAGE/AMPERAGE.
- A. THE ELECTRICAL SUBCONTRACTOR IS REQUIRED TO VISIT THE SITE DURING BIDDING AND VERIFY LOCATION(S) OF WHERE THE ELECTRICAL EQUIPMENT/PIPING IS INDICATED TO BE PLACED, SIZE OF ANY EXISTING SERVICE AND WHAT IS INDICATED TO BE INSTALLED OR EXISTING TO REMAIN AND IF NEW SERVICE IS INDICATED TO VERIFY IT DIFFERENT THAN THE DRAWINGS, SIZE OF FEEDER PIPES, REQUIRED DISTANCES AND POSSIBLE ADDITIONAL WORK REQUIRED AT THE DISTRIBUTIONS ROOM. ANY DISCREPANCIES BETWEEN DESIGNED AND ACTUAL TO BE TOLD TO THE GENERAL CONTRACTOR AND BE INDICATED ON THE BID FORM.
4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FROM THE BUILDING AND ELECTRICAL INSPECTORS FOR ALL CONCEALED WORK PRIOR TO CLOSING UP WALLS, FLOORS AND CEILING.
5. TENANTS GENERAL CONTRACTOR SHALL BRING IN ALL ADDITIONAL SERVICES, ADEQUATE FOR TENANTS NEEDS AS REQUIRED, INCLUDING BUT NOT LIMITED TO ELECTRIC, SPRINKLER, SOIL (WASTE), DOMESTIC WATER LINES, OUTSIDE TOILET EXHAUST AIR, FIRE ALARM, TELEPHONE AND DATA.
6. SCOPE: FURNISH LABOR, MATERIALS, TOOLS, EQUIPMENT, ETC., REQUIRED FOR A COMPLETE INSTALLATION OF ELECTRICAL SYSTEMS AND WORK, IN ACCORDANCE WITH LOCAL CODES AND GOVERNING BODIES HAVING JURISDICTION, AS SHOWN ON DRAWINGS, AND AS SPECIFIED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- A. NEW SERVICE -- TENANTS CONTRACTOR IS TO REUSE EXISTING ELECTRICAL SERVICE OR CONDUIT ONLY. FURNISH AND INSTALL NEW ELECTRICAL SERVICE WIRE AND EXTEND BOTH CONDUIT AND WIRE TO POINT OF ALL NEW PANELS, TRANSFORMERS, WIREWAYS, TROUGHS, TIME CLOCKS, ETC. SINCE SPACE MAY OR MAY NOT BE MEASURED OR REVIEWED BY TENANTS ARCHITECT, THE ACTUAL LOCATION OF SERVICE AND PANEL LOCATIONS MAY NOT BE KNOWN. THE ELECTRICAL SUBCONTRACTOR, IN REVIEW OF THE PREMISES, IS REQUIRED TO INSTALL PANELS IN LOCATION AS NOTED ON DRAWINGS AND MUST INCLUDE IN HIS BID ANY EXTENSION OF CONDUIT AND WIRE, NEW DISCONNECTS, RELOCATION OR INSTALLATION OF PANELS, TROUGHS, WIREWAYS, ETC. TO MAKE THE SYSTEM WHOLE AND TO UPGRADE AS NECESSARY TO MEET CODE REQUIREMENTS. INSTALL NEW SERVICE INCLUDING CONDUIT AND WIRE FROM DEMISED PREMISES TO LANDLORD'S ELECTRICAL ROOM IF THE EXISTING SERVICE NEEDS TO BE UPGRADED FROM WHAT TENANT WAS ORIGINALLY TOLD SERVICE WOULD BE, OR THE SERVICE NEEDS TO BE MOVED BECAUSE IT'S EITHER SHOWN TO BE MOVED OR IS EXISTING NOW IN THE PATH OF FUTURE PARTITION OR OTHER SERVICES.
- B. EXISTING SERVICE - TENANTS CONTRACTOR IS TO REUSE EXISTING ELECTRICAL SERVICE WIRE, CONDUIT AND ELECTRICAL EQUIPMENT. CUT AND EXTEND TO POINT OF NEW ELECTRICAL EQUIPMENT. ALL EXISTING ELECTRICAL EQUIPMENT WHICH IS REUSED TO BE BROUGHT UP TO "LIKE NEW" CONDITION AND THE LATEST N.E.C. STANDARD. SINCE SPACE MAY OR MAY NOT BE MEASURED OR REVIEWED BY TENANTS ARCHITECT, THE ACTUAL LOCATION OF SERVICE AND PANEL LOCATIONS MAY NOT BE KNOWN. THE ELECTRICAL SUBCONTRACTOR, IN REVIEW OF THE PREMISES IS REQUIRED TO INSTALL PANELS IN LOCATION AS NOTED ON DRAWINGS AND MUST INCLUDE IN HIS BID ANY EXTENSION OF CONDUIT AND WIRE, NEW DISCONNECTS, RELOCATION OR INSTALLATION OF PANELS, TROUGHS, WIREWAYS, ETC. TO MAKE SYSTEM WHOLE AND TO UPGRADE AS NECESSARY TO MEET CODE REQUIREMENTS. INSTALL NEW SERVICE INCLUDING CONDUIT AND WIRE FROM DEMISED PREMISES TO LANDLORD'S ELECTRICAL ROOM IF THE EXISTING SERVICE NEEDS TO BE UPGRADED FROM WHAT TENANT WAS ORIGINALLY TOLD SERVICE WOULD BE, OR THE SERVICE NEEDS TO BE MOVED BECAUSE IT'S EITHER SHOWN TO BE MOVED OR IS EXISTING NOW IN THE PATH OF FUTURE PARTITION OR OTHER SERVICES.
- C. POWER DISTRIBUTION SYSTEMS AND TRANSFORMER.
- D. LIGHTING SYSTEMS (ALSO SEE REFLECTED CEILING PLAN).
- E. ELECTRICAL ENERGIZING -- MISCELLANEOUS FAN AND MOTOR.
- F. MOTOR POWER WIRING SYSTEM.
- G. TELEPHONE EMPTY CONDUIT SYSTEM (INCLUDING TERMINAL BOXES AND OUTLETS).
- H. CONVENIENCE RECEPTACLE SYSTEM, DOOR ALARM/ ENTRY SYSTEM/ SECURITY.
- I. SOUND SYSTEM, INTERCOM SYSTEM -- FURNISHED AND INSTALLED BY THIS CONTRACTOR IF REQUIRED BY CLIENT; EMERGENCY LIGHT SYSTEM AND BATTERIES FURNISHED BY CLIENT AND INSTALLED BY THIS CONTRACTOR.
- J. GROUNDING IN ACCORDANCE WITH NATIONAL ELECTRIC CODE AND ALL MALL REQUIREMENTS.
- K. NIGHT LIGHT CIRCUITING THROUGHOUT PREMISES AS PER CODE WHETHER SHOWN OR NOT ON DRAWINGS.
- L. LOCK OUTS FOR EXIT / EMERGENCY LIGHTING, ALARM SYSTEMS, CASH REGISTERS, GRILLE AT ENTRY (IF APPLICABLE) AS REQUIRED. SEE PANEL SCHEDULE FOR CIRCUITS.
- M. SMOKE DETECTORS FURNISHED AND INSTALLED WITHIN STORE TO INCLUDE LOCATIONS AND INTERNAL / EXTERNAL WIRING IF REQUIRED BY LANDLORD OR FIRE MARSHAL.
- N. ELECTRICAL SUBCONTRACTOR, WHEN BIDDING THIS WORK, TO CHECK TO MAKE SURE THAT SERVICE WIRE, CONDUIT, DISCONNECTS, ETC., ARE ADEQUATE FOR TENANTS NEEDS. IF ADDITIONAL SERVICE IS REQUIRED, INCLUDE NEW CONDUIT AND SERVICE FEED OR DISCONNECTS, METER BASE AND METER (IF APPLICABLE), ETC., TO BRING SUCH SERVICE UP TO TENANTS NEEDS.
- O. FURNISH AND INSTALL ALL CONDUIT AND WIRING, DISCONNECTS, BREAKERS, BALANCING OF LOADS, ETC. FOR HOOKUP OF ALL H.V.A.C. EQUIPMENT, UNIT(S), OR INLINE HEATERS WHETHER SUCH HEATERS OR EQUIPMENT / UNITS ARE SHOWN OR NOT.
- P. FURNISH AND INSTALL A TWENTY FOUR (24) HOUR, SEVEN (7) DAY TIME CLOCK INCLUDING ALL INTEGRAL WIRING AND LOAD BALANCING (PANELS) FOR CONTROLLING THE CORRESPONDING SIGN AND SHOW WINDOW LIGHTING, WHETHER SUCH WORK IS OR IS NOT SHOWN ON PLANS / OR SPECIFICATIONS.
- Q. ALL ELECTRICAL ROUGH-IN TO BE NEW AND THE ORIGINAL SERVICES TO THE DEMISED PREMISES TO BE REUSED, CUT AND EXTEND TO POINT OF ALL NEW ELECTRICAL EQUIPMENT (IF ANY EQUIPMENT IS REUSED, UPGRADE SAME) AND THE LATEST N.E.C. STANDARD. SINCE SPACE MAY OR MAY NOT BE MEASURED OR REVIEWED BY TENANTS ARCHITECT, THE ACTUAL LOCATION OF SERVICE AND PANEL LOCATIONS MAY NOT BE KNOWN. THE ELECTRICAL SUBCONTRACTOR, IN REVIEW OF THE PREMISES IS REQUIRED TO INSTALL PANELS IN LOCATION AS NOTED ON DRAWINGS AND MUST INCLUDE IN HIS BID ANY EXTENSION OF CONDUIT AND WIRE, NEW DISCONNECTS, RELOCATION OR INSTALLATION OF PANELS, TROUGHS, WIREWAYS, ETC. TO MAKE SYSTEM WHOLE AND TO UPGRADE AS NECESSARY TO MEET CODE REQUIREMENTS. INSTALL NEW SERVICE INCLUDING CONDUIT AND WIRE FROM DEMISED PREMISES TO LANDLORD'S ELECTRICAL ROOM IF THE EXISTING SERVICE NEEDS TO BE UPGRADED FROM WHAT TENANT WAS ORIGINALLY TOLD SERVICE WOULD BE, OR THE SERVICE NEEDS TO BE MOVED BECAUSE IT'S EITHER SHOWN TO BE MOVED OR IS EXISTING NOW IN THE PATH OF FUTURE PARTITION OR OTHER SERVICES.
- R. THE TENANTS ELECTRICAL SUBCONTRACTOR IS TO PROVIDE A NEW CIRCUIT DIRECTORY(IES) WITH PROPER PHASING AND BALANCING, WHICH IS TO CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND UNDERWRITER'S CODE.
- S. THE SIGN(S) JUNCTION BOX PERMIT IS TO BE INCLUDED IN THE WORK FOR THE ELECTRICAL SUBCONTRACTOR AND THE BOX IS TO BE SUPPLIED BY THIS CONTRACTOR AND PROPERLY LABELED.
- T. FURNISH AND INSTALL NEW (OR REFURBISH IF EXISTING) TOILET EXHAUST WITH ASSOCIATED DUCTWORK, ROOF PENETRATIONS, OR HOOK UP TO COMMON EXHAUST DUCT WITH BACKDRAFT DAMPER ETC., INCLUDING ASSOCIATED ELECTRICAL HOOKUP AND PANEL CONNECTIONS.WHETHER SUCH WORK IS SHOWN OR NOT SHOWN ON PLANS AND SPECIFICATIONS.
- U. IF A SMOKE EVACUATION AND / OR DETECTION SYSTEM OCCURS FOR THIS SPACE, IT SHALL BE LEFT INTACT DURING CONSTRUCTION AND ANY NEW WORK, MODIFICATIONS AND/OR REWIRING TO BE COMPLETED DURING CONSTRUCTION PHASE TO POINT OF NEW PANELS, WHETHER SHOWN OR NOT SHOWN ON PLANS AND SPECIFICATIONS.
- V. ENGINEER, FURNISH AND INSTALL ANY AND ALL REQUIRED SMOKE EVACUATION, SMOKE DETECTION AND FIRE ALARM SYSTEMS, INCLUDING ANY AND ALL PARTS AND LABOR, TO MEET LOCAL, CODE, LANDLORD REQUIREMENTS AND FIRE MARSHAL SPECIFICATIONS. WHETHER SHOWN OR NOT SHOWN ON PLANS AND SPECIFICATIONS.
- W. THE ELECTRICAL SUBCONTRACTOR TO COORDINATE WITH OTHER ENGINEERING DRAWINGS AND INCLUDE COSTS (LABOR AND MATERIALS) NECESSARY FOR OTHER ELECTRICAL EQUIPMENT / FIXTURES NOT SHOWN ON THESE ELECTRICAL DRAWINGS, BUT SHOWN ON OTHER ENGINEERING DRAWINGS.
7. THE TENANTS GENERAL CONTRACTOR AND/OR ELECTRICAL SUBCONTRACTOR IS TO INSTALL EMERGENCY AND EXIT LIGHTING AS REQUIRED BY LOCAL CODE OR AGENCIES HAVING JURISDICTION OVER THE PROJECT. THE EXIT/ EMERGENCY LIGHTING SHOULD BE PROPERLY LABELED AND APPROVED TYPE LOCKOUTS INSTALLED.
8. SUBSTITUTIONS: CATALOG AND MANUFACTURER'S NUMBERS IN THIS SECTION AND ON THE DRAWINGS ARE FOR THE PURPOSE OF ESTABLISHING STANDARDS OF QUALITY AND MATERIALS TO BE USED. PRODUCTS OR OTHER MANUFACTURERS MAY BE USED IF SIMILAR AND EQUAL IN QUALITY AND DESIGN IN THE OPINION OF THE OWNER OR OWNERS ARCHITECT AND ARE SPECIFICALLY APPROVED BY THE OWNER OR OWNERS ARCHITECT. IN WRITING, PRIOR TO CLOSE OF BIDDING, REQUESTS FOR APPROVAL OF SUBSTITUTIONS SHALL BE IN WRITING, AND SHALL INCLUDE REPORTS OF TESTS, PERFORMANCE DATA OR OTHER PROOF OF EQUALITY TO THE ITEM SPECIFIED.
9. SHOP DRAWINGS & SUBMITTALS: PRIOR TO THE COMMENCEMENT OF WORK, SUBMIT ONE (1) SET OF THE FOLLOWING ITEMS TO THE OWNERS ARCHITECT IN THE FORM OF SHOP DRAWINGS, DETAILS OR CATALOG CUTS FOR THE RECORD: LIGHTING AND POWER PANELS, WIRING DEVICES, SAFETY SWITCHES, TRANSFORMER, TIME CLOCKS AND ANY OTHER ITEMS AS REQUESTED BY THE OWNER OR THE OWNERS ARCHITECT.
- A. BY SUBMITTING SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS, THE CONTRACTOR REPRESENTS TO THE CLIENT AND ARCHITECT THAT THE CONTRACTOR HAS (1) REVIEWED AND APPROVED THEM, (2) DETERMINED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA RELATED THERETO, OR WILL DO SO AND (3) CHECKED AND COORDINATED THE INFORMATION CONTAINED WITHIN SUCH SUBMITTAL WITH THE REQUIREMENTS OF THE WORK AND OF THE CONTRACT DOCUMENTS.
- B. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK FOR WHICH THE CONTRACT DOCUMENTS REQUIRE SUBMITTAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNTIL THE RESPECTIVE SUBMITTAL HAS BEEN APPROVED BY THE ARCHITECT.

- C. THE WORK SHALL BE IN ACCORDANCE WITH APPROVED SUBMITTALS EXCEPT THAT THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY ANY APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE CLIENT IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND
- C.1. THE ARCHITECT HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION AS A MINOR CHANGE IN THE WORK, OR A CHANGE IN ORDER OR CONSTRUCTION CHANGE DIRECTIVE HAS BEEN ISSUED AUTHORIZING THE DEVIATION.
- C.2. THE CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION IN WRITING OR ON RESUBMITTED SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS, TO REVISIONS OTHER THAN THOSE REQUESTED BY THE ARCHITECT ON PREVIOUS SUBMITTALS. IN THE ABSENCE OF SUCH WRITTEN NOTICE, THE ARCHITECT'S APPROVAL OF A RESUBMISSION SHALL NOT APPLY TO SUCH REVISIONS.
- D. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT'S APPROVAL THEREOF.
10. WORKMANSHIP:
- A. USE EXPERIENCED, WELL-QUALIFIED CRAFTSMEN, IN GOOD STANDING WITH THEIR RESPECTIVE LABOR UNIONS.
- B. USE CAPABLE AND EXPERIENCED SUPERINTENDENTS, AUTHORIZED BY THE CONTRACTOR TO INSTRUCT WORK, MAKE JOB DECISIONS AND ACT FOR THE CONTRACTOR IN ALL MATTERS PERTAINING TO THE CONTRACT.
11. PERMITS, TESTS AND INSPECTIONS:
- A. APPLY FOR, SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, LICENSES AND ROYALTIES TO ACCOMPLISH THE WORK.
- B. APPLY FOR, SECURE AND PAY FOR ALL REQUIRED TESTS AND INSPECTIONS TO ACCOMPLISH THE WORK IN CONFORMANCE WITH ALL CODES AND JURISDICTIONS.
- C. FURNISH SIGNED CERTIFIED AND ACCEPTABLE COPIES OF ALL ITEMS COVERED IN (A) AND (B) ABOVE TO THE OWNER FOR HIS RECORDS.
- D. COMPLY WITH RULES AND REGULATIONS OF JURISDICTIONAL AUTHORITIES AND MALL OR LEASE SPECIFICATIONS AND REPORT ANY DEVIATIONS ON DRAWINGS TO OWNER.
12. CODES, RULES AND REGULATIONS: INCLUDE IN ELECTRICAL BID ANY ADDITIONAL MATERIALS AND LABOR THAT MAY BE REQUIRED FOR COMPLIANCE WITH ALL GOVERNING LAWS, BYLAWS, AS REGULATIONS, EVEN THOUGH THE WORK IS NOT MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. NOTHING IN THE PLANS OR SPECIFICATIONS SHALL BE DEEMED AS AUTHORITY TO VIOLATE ANY GOVERNING CODE.
13. ACCURACY OF DATA:
- A. THE DATA GIVEN HEREIN AND ON THE DRAWINGS ARE AS EXACT AS COULD BE SECURED, BUT THEIR ABSOLUTE ACCURACY IS NOT GUARANTEED. THE SPECIFICATIONS AND DRAWINGS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCES, LEVELS, ETC., WILL BE GOVERNED BY THE BUILDING AND THE CONTRACTOR SHALL USE THE DATA CONTAINED HEREIN WITH THIS UNDERSTANDING.
- B. THE EXACT LOCATION OF EACH AND EVERY OUTLET, OF EACH WIRING SYSTEM, NOT DIMENSIONED ON THE DRAWINGS, SHALL BE AS DIRECTED BY THE OWNER, THE OWNER'S ARCHITECT OR HIS SELECTED REPRESENTATIVE.
14. CLEANUP: REMOVE ALL SURPLUS MATERIAL, EQUIPMENT AND DEBRIS INCIDENTAL TO THIS WORK AND LEAVE THE PREMISES IN A CONDITION ACCEPTABLE TO THE OWNER.
15. GUARANTEE: FURNISH A WRITTEN CERTIFIED GUARANTEE, IN ACCEPTABLE FORM TO THE OWNER, THAT ANY DEFECTIVE WORKMANSHIP OR OPERATING EQUIPMENT, WHEN DISCOVERED, SHALL BE IN FULL FORCE AND EFFECTIVE FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE INSTALLATION.
16. TEMPORARY ELECTRIC SERVICE: THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL WIRING FOR CONSTRUCTION USE AS FOLLOWS: THE SERVICE ENTRANCE AND FEEDER SHALL BE 60 AMPS, SINGLE PHASE, 3 WIRE 120/208 VOLT FUSED MAIN DISCONNECT. THE FEEDER TO SERVE THE TEMPORARY DISTRIBUTION WIRING PROVIDING TEMPORARY LIGHTING IN ALL AREAS AS INDICATED ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR, IN REVIEW OF THE OPERATION OF 120 VOLT SINGLE PHASE PORTABLE TOOLS AND EQUIPMENT NOT TO EXCEED 1 H.P., THE WIRING SHOULD BE EXTENDED ALSO, SO THERE IS A 120 VOLT SINGLE PHASE OUTLET WITHIN 75 FEET OF ANY PORTION OF THE BUILDING. PROVIDE GROUND FAULT PROTECTION FOR ALL REQUIRED RECEPTACLES NOT TO BECOME A PERMANENT PART OF THE INSTALLATION.
17. STRUCTURAL CONDITIONS: NOTCHING AND BORING OF STRUCTURAL MEMBERS WILL NOT BE PERMITTED. IF CONDUIT, BOXES, ETC. NEED TO BE HUNG FROM STRUCTURAL STEEL, ONLY HANG FROM TOP FLANGE OF BEAMS AND TOP CHORDS AND ONLY AT PANEL POINTS OF JOISTS / TRUSSES.
18. COOPERATION WITH OTHER CONTRACTORS: THIS CONTRACTOR SHALL COOPERATE WITH ALL OTHER CONTRACTORS AND LABOR UNIONS AND THE WORK SO THAT THE WORK AS A WHOLE SHALL BE EXECUTED AND COMPLETED WITHOUT CONFLICT OR DELAY. IN THE EVENT OF ANY MECHANICAL OBSTRUCTION, AS PLUMBING OR AIR CONDITIONING DUCTS, IN WAY OF ELECTRICAL EQUIPMENT, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO NOTIFY THE OWNER'S ARCHITECT BEFORE COMMENCING ANY WORK.

II. BASIC MATERIALS AND METHODS

1. RACEWAYS AND BOXES

- A. WHERE SIZES OF RACEWAY OR BOXES ARE NOT INDICATED, THE CONTRACTOR SHALL SIZE THESE ITEMS AS REQUIRED FOR THE INSTALLATION.
- B. LEXIBLE METAL CONDUIT AS ALLOWABLE BY CODE SHALL BE USED FOR FINAL CONNECTION OF LIGHTING FIXTURES AND WIRING DEVICES TO BE INSTALLED IN HUNG CEILINGS.
- C. WORK INSTALLED IN METAL PARTITIONS SHALL BE RUN IN CONCEALED ELECTRICAL METALLIC TUBING OR FLEXIBLE CONDUIT AS REQUIRED BY GOVERNING CODE AND LANDLORD.
- D. BRANCH CIRCUIT WORK CHASED INTO EXISTING CONSTRUCTION FOR CONCEALMENT UNDER PATCHED FINISHES, MAY BE INSTALLED IN RIGID CONDUIT, OR EMT.
- E. CONDUITS THAT RUN EXPOSED ON EXTERIOR OF BUILDING SHALL BE RIGID CONDUIT WITH WEATHER TIGHT, CORROSION RESISTANT FITTINGS.
- F. FLEXIBLE STEEL CONDUITS SHALL BE USED IN MAKING UP SHORT, FLEXIBLE, CONNECTIONS TO MECHANICAL OR VIBRATING EQUIPMENT, MINIMUM 12" LENGTH AND FOR CONNECTIONS BETWEEN JUNCTION BOXES IN HUNG OR FURRED CEILING FIXTURES.
- G. ALL INTERIOR FEEDERS OR EXPOSED FEEDERS TO THE PUBLIC'S EYE, SHALL BE INSTALLED IN RIGID CONDUIT OR EMT.
- H. ALL INTERIOR LOW VOLTAGE WIRING SHALL BE INSTALLED IN RIGID CONDUIT OR EMT WHERE REQUIRED BY CODE.
- I. MINIMUM SIZE CONDUIT SHALL BE 3/4" TRADE SIZE UNLESS OTHERWISE INDICATE ON THE DRAWINGS.
- J. ALL WORK RUN IN UNEXCAVATED AREAS, CRAWL SPACES, TUNNELS, OR UNDERGROUND SHALL BE INSTALLED IN RIGID CONDUIT.
- K. ALL WORK RUN EXPOSED WITHIN THE BUILDING MAY BE INSTALLED IN RIGID STEEL CONDUIT OR ELECTRICAL METALLIC TUBING.
- L. ALL WORK RUN CONCEALED WITHIN HUNG OR FURRED CEILINGS, METAL STUD PARTITIONS AND THE LIKE, MAY BE INSTALLED IN RIGID STEEL CONDUIT, ELECTRIC METAL TUBING EXCEPT THAT WIRING IN OR THROUGH SLABS SHALL BE IN RIGID CONDUIT.
- M. GALVANIZED PRESSED STEEL OUTLET BOXES OF PROPER SIZE AND TYPE AS REQUIRED BY THE BUILDING CONDITIONS SHALL BE PROVIDED FOR ALL INTERIOR OUTLETS FOR LIGHTING, SWITCHES, RECEPTACLES, CLOCKS, SIGNALS, AND THE LIKE.
- N. PROVIDE GALVANIZED FITTINGS FOR EXPOSED WORK, THREADED FOR CONDUIT CONNECTIONS AND PROVIDE WITH SUITABLE COVERS.
- O. THE OUTLETS FOR LOCAL SWITCHES SHALL BE INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATIONS INDICATED ON THE DRAWINGS; THEREFORE, CHECK ALL DOOR SWINGS BEFORE INSTALLING CONDUIT AND OUTLETS.

2. GROUNDING:

- A. ALL MAJOR PARTS NOT CARRYING CURRENT, INCLUDING THE FOLLOWING ITEMS BELOW, SHALL BE PROPERLY GROUNDED:
- A.1 SECONDARY FEEDER CONDUIT AND EQUIPMENT ENCLOSURES.
- A.2 PANEL BOARD ENCLOSURES, PULL AND JUNCTION BOXES, CABLE TROUGHS
- A.3 ALL CONDUITS, METAL MOLDING AND OUTLET BOXES
- A.4 FAN AND EQUIPMENT HOUSINGS EXPOSED ON THE STRUCTURE OR ON GRADE
- B. ALL CASH REGISTER OUTLETS TO BE ISOLATED AND SEGREGATED.
3. SAFETY SWITCHES: PROVIDE WHERE SHOWN OR AS REQUIRED, HEAVY-DUTY, METAL ENCLOSED, EXTERNALLY OPERATED FUSED, OR UNFUSED, SAFETY SWITCHES, OF SUCH TYPE AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT THE LOAD FOR WHICH THEY ARE INTENDED. THE OPERATING MECHANISM SHALL BE TO DISCONNECT THE LOAD WHEN THE SWITCHES ARE IN THE "ON" OR "OFF" POSITIONS. WHERE "WEATHERPROOF" SAFETY SWITCHES ARE INDICATED OR REQUIRED, THESE SHALL BE AS SPECIFIED ABOVE EXCEPT ENCLOSURES SHALL BE NEMA III, RAIN TIGHT.
4. MOTOR AND OTHER WIRING:
- A. PROVIDE ALL REQUIRED CONDUIT, WIRING AND SAFETY SWITCHES FOR ALL MOTORS, AND ANY OTHER ELECTRICAL EQUIPMENT INSTALLED OR CONNECTED UNDER THIS DIVISION.
- B. ALL MOTORS WILL BE FURNISHED AND SET UNDER OTHER DIVISION, THE WORK OF THIS DIVISION SHALL INCLUDE PROVIDING ALL CONNECTIONS SO AS TO BE COMPLETE.
- C. ALL STARTING DEVICES, MOTOR CONTROLLERS, FLOAT SWITCHES, LEVEL SENSORS, ALARM DEVICES, REMOTE CONTROL PUSH BUTTONS, ETC., WILL BE FURNISHED BY THE VARIOUS CONTRACTORS, UNLESS OTHERWISE NOTED HEREIN. BUT THIS CONTRACTOR SHALL SET THESE DEVICES AND PROVIDE ALL CONNECTIONS.
- D. FOR EACH THERMOSTAT (BY H.V.A.C.), PROVIDE 4" x 4" OUTLET BOX WITH 3/4" EMPTY CONDUIT STUBBED UP INTO CEILING AND BUSHED. PROVIDE STEEL DRAG WIRE FOR EACH LOCATION.
5. WIRING DEVICES:
- A. COMPUTER RECEPTACLES AT CASH WRAP AREA SHALL BE HUBBELL #IGS262, COMPUTER GRADE WITH "ISOLATED" GROUND LUGS.
- B. ALL WIRING DEVICES INSTALLED IN THIS BUILDING SHALL BE "SPECIFIED GRADE," MANUFACTURED BY ARROW, HART AND HEGEMAN, HUBBELL, GENERAL ELECTRIC, OR EQUIVALENT.
- C. LOCAL SWITCHES SHALL BE TOGGLE TYPE, A.C. RATED 20 AMPERES, 125 VOLTS, QUIET-TYPE WITH SILENT OPERATING MECHANISM, TOTAL CLOSED IN A MOLDED COMPOSITION BASE. SWITCHES SHALL BE SINGLE POLAR, THREE OR FOUR-WAY AS INDICATED. WHERE LOCK TYPE LOCAL SWITCHES ARE INDICATED, THESE SHALL BE SIMILAR TO ABOVE SPECIFICATION WITH KEY OPERATOR; PROVIDE TO OWNER TWO (2) KEYS FOR EACH SWITCH INSTALLED.
- D. ALL RECEPTACLES INSTALLED IN THIS BUILDING SHALL BE OF THE GROUNDING TYPE, WITH GROUNDING PIN SLOT CONNECTED TO DEVICE GROUND SCREW FOR GROUND WIRE

CONNECTION TO CONDUIT SYSTEM.

6. WIRES AND CABLES:

- A. ALL WIRE FOR LIGHT AND POWER INSTALLATIONS SHALL BE HIGH CONDUCTIVITY COPPER, 600 VOLT INSULATED IN ACCORDANCE WITH THE NATIONAL BOARD OF FIRE UNDERWRITERS STANDARDS FOR TYPE "THW" WIRES, EXCEPT AS NOTED ON THE DRAWINGS OR OTHERWISE SPECIFIED HEREIN.
- B. NO WIRE SHALL BE SMALLER THAN NO. 12 A.W.G.. ALL WIRES NO. 8 AND LARGER SHALL BE STRANDED.
- C. WIRES SHALL BE COLOR CODED.
- D. ALL WIRES SHALL BE POLARIZED.
- E. CIRCUIT WORK BETWEEN OUTLET BOXES AND EACH RECESSED LIGHTING FIXTURE SHALL BE TYPE "AF" WIRE.
- F. HOME RUNS AND BRANCH WIRING FOR 120 VOLT CIRCUITS SHALL BE AS FOLLOWS:
- | LENGTH       | HOME RUN WIRE SIZE | CIRCUIT WIRE SIZE |
|--------------|--------------------|-------------------|
| 1' TO 5'     | 12                 | 12                |
| 50' TO 100'  | 10                 | 12                |
| 100' TO 150' | 8                  | 12                |

7. LIGHTING AND POWER PANELS:

- A. PANELS SHALL BE CIRCUIT BREAKER TYPE INSTALLED IN CODE GAUGE GALVANIZED SHEET STEEL CABINETS, FLUSH OR SURFACE MOUNTED AS INDICATED ON THE DRAWINGS. THE PANEL SECTIONS SHALL BE MOUNTED AWAY FROM THE BACK OF THE CABINETS IN SUCH A MANNER THAT THERE WILL BE NO SPACE BETWEEN THE CABINET TRIMS AND FRAMES. THE GUTTER SPACES ON ALL SIDES, TOPS AND BOTTOMS SHALL BE OF SUFFICIENT SIZE TO PREVENT OVERGROWING OF WIRES AND CABLES AND TO PROVIDE SUFFICIENT VENTILATION TO PREVENT OVERHEATING OF THE CIRCUIT BREAKERS. EACH CABINET SHALL BE COMPLETE WITH HINGED DOORS, CYLINDRICAL LOCK, DIN RAIL AND TWO (2) PANELS SHALL BE INSTALLED. ALL PANELS SHALL BE KEVED ALIKE. INSTALL AN ANGLE PIECE ON INSIDE OF EACH TRIM FOR EASE OF INSTALLATION.
- B. HE BRANCH CIRCUIT BREAKERS, IN GENERAL, SHALL BE MOLDED CASE, BOLT-ON TYPE, RATED 10,000 AIC ON 120/208V, 100 AMPERE FRAME, THERMAL MAGNETIC TRIP SINGLE, TWO OR THREE POLE AS SHOWN ON THE DRAWINGS. ALL MULTIPLE POLE BREAKERS FOR PANELS WHERE INDICATED ON THE DRAWING SCHEDULES. MAIN BREAKER CHARACTERISTICS SHALL BE AS INDICATED ON THE DRAWINGS. MAIN BUSS WORK OF ALL PANELS SHALL, AS A MINIMUM, BE DESIGNED TO CARRY THE FULL RATING OF THE FEEDER SWITCH SUPPLYING THE PANEL, AT A CIRCUIT DENSITY OF 800 AMPERES PER SQUARE INCH OF CROSS SECTION. BUSS WORK SHALL BE HIGH CONDUCTIVITY COPPER (277 / 480V CIRCUIT BREAKERS SHALL BE RATED AT 14,000 A.I.C.).
- C. PANEL SECTIONS SHALL BE SUCH THAT NO LIVE PARTS ARE EXPOSED AFTER INSTALLATION. THEY SHALL BE SO ARRANGED THAT EACH BREAKER IS READILY REMOVABLE FROM THE PANEL WITHOUT DISTURBING ADJACENT BREAKERS. ELECTRICAL CONTRACTOR TO PROVIDE TYPED BREAKER LIST.
- D. PHASE LEGS SHALL BE ALTERNATELY BUSSED TO EACH CIRCUIT BREAKER IN A MANNER TO AFFECT BALANCING THE BRANCH CIRCUIT CONNECTIONS AS NEARLY AS POSSIBLE OVER EACH PHASE.
8. DRY TYPE TRANSFORMERS (IF NEW IS REQUIRED):
- A. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A DRY TYPE AIR COOLED INDOOR POWER TRANSFORMER, AS RATED ON THE DRAWINGS AND HEREINAFTER SPECIFIED.
- B. THE TRANSFORMER SHALL BE PROVIDED WITH SUITABLE VIBRATION DAMPERS, SAME TO BE PLACED BETWEEN THE CORE AND THE COILS OF THE ENCLOSURE.
- C. THE TRANSFORMER SHALL HAVE CLASS "F" INSULATION, AND THE WIRING TEMPERATURE RISE SHALL NOT EXCEED 150 DEGREES CELSIUS UNDER FULL LOAD IN AN AMBIENT TEMPERATURE OF 40 DEGREES CELSIUS.
- D. THE TRANSFORMER ENCLOSURE SHALL BE PRIMED INSIDE AND OUT WITH A ZINC-COATED CHROMATE IRON OXIDE RUST INHIBITING PRIMER AND FINISHED ASA#1 GRAY ENAMEL.
- E. THE MAXIMUM ACCEPTABLE NOISE LEVEL SHALL NOT EXCEED THE FOLLOWING: 0 TO 150KVA - 42 db.
9. LIGHTING FIXTURES:
- A. ALL LIGHTING FIXTURES AND LAMPS SHALL BE SUPPLIED BY THE TENANT AND / OR TENANTS LIGHT FIXTURE AND LAMP SUPPLIER UNLESS OTHERWISE NOTED, AND SHALL BE DELIVERED HANDLED, ASSEMBLED AND INSTALLED AT THE SITE BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNLOADING, STORAGE, AND PROTECTION OF ALL ITEMS FOUND TO BE DEFECTIVE AND SHALL BE REPLACED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- B. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL THE NECESSARY LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF THE LIGHTING FIXTURES AS INDICATED ON THE DRAWINGS.
- C. ALL FLUORESCENT AND INCANDESCENT LAMPS SHALL BE AS NOTED ON PLANS AND SPECIFICATIONS AND SHALL BE PROVIDED BY THE TENANT AND/OR TENANTS LIGHT FIXTURE AND AMP SUPPLIER AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- D. SEE ELECTRICAL DRAWING FOR LIGHTING FIXTURE DESCRIPTIONS.

III. SPECIFIC ELECTRICAL SPECIFICATIONS

1. SEE ELECTRICAL DRAWINGS - LANDLORD'S CRITERIA: THE ELECTRICAL CONTRACTOR IS TO BECOME FAMILIARIZED WITH LANDLORD'S CRITERIA FOR THIS LOCATION AND INCLUDE ANY WORK REQUIRED IF THIS CRITERIA, WHICH IS NOT SPECIFICALLY NOTED IN THESE DRAWINGS AND SPECIFICATIONS.
- IV. TELEPHONE
1. PROVIDE 3/4" EMT IN WALLS WITH DRAG STRING AT EACH LOCATION.
- V. MISCELLANEOUS
1. ALUMINUM WIRE IS STRICTLY PROHIBITED FOR THIS PROJECT.
2. DURING DEMOLITION, ANY ELECTRICAL EQUIPMENT, FIXTURE SYSTEMS, CONDUIT AND WIRE ARE TO BE REMOVED AS NOTED AND NOT REUSED. THIS UNUSED EQUIPMENT, FIXTURE SYSTEMS, CONDUIT, AND WIRE MAY NOT BE ABANDONED AND LEFT WITHIN THE SPACE. THEY MUST BE REMOVED TO AN APPROVED DISPOSAL SITE.

HOME RUNS AND BRANCH WIRING FOR 120 VOLT 16 AMP CIRCUITS SHALL BE AS FOLLOWS TO ACCOUNT FOR VOLTAGE DROP:

LENGTH	HOME RUN WIRE SIZE	CIRCUIT WIRE SIZE
1' TO 6'	10	12
66' TO 104'	10	12
105' TO 156'	8	12
157' TO 263'	6	12
264' TO 415'	4	12

ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE LANDLORD'S "TENANT DESIGN CRITERIA" "TENANT CONSTRUCTION CRITERIA" ALL CONTRACTOR SHALL OBTAIN A COPY FROM THE LANDLORD'S TENANT COORDINATOR OR GSP Mall Operations Manager AND BECOME FAMILIAR WITH THE REQUIREMENTS CONTAINED WITHIN PRIOR TO BIDDING THE JOB. WHERE LANDLORD'S REQUIREMENTS CONFLICT WITH THE SPECIFICATIONS OF THE STRICTEST INTERPRETATION SHALL APPLY.

- Verify any demolition work, and any new work, required by the landlord that is not shown on plans with LANDLORD Mall Operations Manager prior to bid.
- Reuse of existing service, metering, panelboards, transformers, conduit, wire, etc. is subject to building dept. and land approval. Verify if allowed to reuse, and if any work is required by the building dept, or the landlord, with the building dept., the tenant's architect and LANDLORD Mall Operations Manager prior to bid.
- Must cover return air opening prior to start of demolition work and/or new construction. Verify landlord requirements with LANDLORD Mall Operations Manager.
- Verify landlord's requirements for removing abandoned floor penetrations and patching floor slab with LANDLORD Mall Operations Manager prior to bid. Floor slab patching must be approved by the landlord prior to installing any new flooring.
- Verify fire alarm / life safety system requirements with the tenant's architect and LANDLORD Mall Operations Manager prior to bid. Must use landlord's fire alarm contractor. Verify with LANDLORD Mall Operations Manager. Reuse of any existing devices, wiring, etc. is subject to approval by the Fire dept & LANDLORD Mall Operations Manager. Verify if any service/maintenance work is required prior to bid. All conduit, J-boxes, cable, etc must be painted red and labeled "fire alarm".
- Verify if required to mute tenant's music/stereo system when fire alarm system is activated with landlord's fire alarm system contractor and the tenant's architect prior to bid.
- All light fixtures, equipment, devices, etc. shall be U.L. Listed.
- All light fixtures, equipment, wiring methods, etc. within ceiling return air plenum shall comply with NEC Section 300-22, and any additional building dept. or landlord requirements. Verify if any additional building dept. or landlord requirement with the tenant's architect and LANDLORD Mall Operations Manager prior to bid.
- Provide lock-on device for exit light, emergency light and fire alarm circuits as required.
- Balance panelboard loads to within 10 percent of lowest phase and submit report to LANDLORD Mall Operations Manager.
- Verify landlord's floor slab saw cutting requirements with LANDLORD Mall Operations Manager prior to bid. May be required to perform radar/sonar/X-ray verification survey of floor slab.
- Verify landlord approved methods for attaching to building structure when hanging/supporting HVAC equipment, ductwork, piping, water heaters, transformers, fixtures, conduit, etc. with the tenant's architect and LANDLORD Mall Operations Manager prior to bid. Attaching to floor slab, or upth through floor slab, is not allowed. May be required to submit detail/plan to landlord's structural engineer for approval at the tenant's expense.
- Provide access to any landlord and/or tenant equipment, valves, dampers, controls, cleanouts, J-boxes, etc. located above GYP board ceiling and any other inaccessible areas as required. Verify/coordinate required access panel, locations with the tenant's architect and LANDLORD Mall Operations Manager prior to bid/start of work.
- See notes on plans and verify all materials and work required by the landlord prior to bid.
- The landlord's Operations Manager shall have the authority to make on-site decisions and field changes in accordance with the landlord's tenant design criteria, and any specific mall operation needs/requirements not noted on plans.

CONSULTANTS (ENGINEER):

NY ENGINEERS

NEARBY ENGINEERS

382 NE 191ST STREET SUITE 49674,

MIAMI, FL 33179

PH-914.257.3455

WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL:

CONTRACTOR'S NOTES:

WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR CONFLICTS BETWEEN THE PLANS AND THE EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.

DATE	ISSUE
02/25/25	CD SET- CLIENT/LL REVIEW
03/24/25	PERMIT SET

△ DATE REVISION

A|X  
ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025

PROJECT NUMBER: 12402-25

AREA: 4,440 SQ. FT.

DRAWN BY: NYE

REVIEWED BY: NYE

TITLE:

ELECTRICAL  
GENERAL NOTES

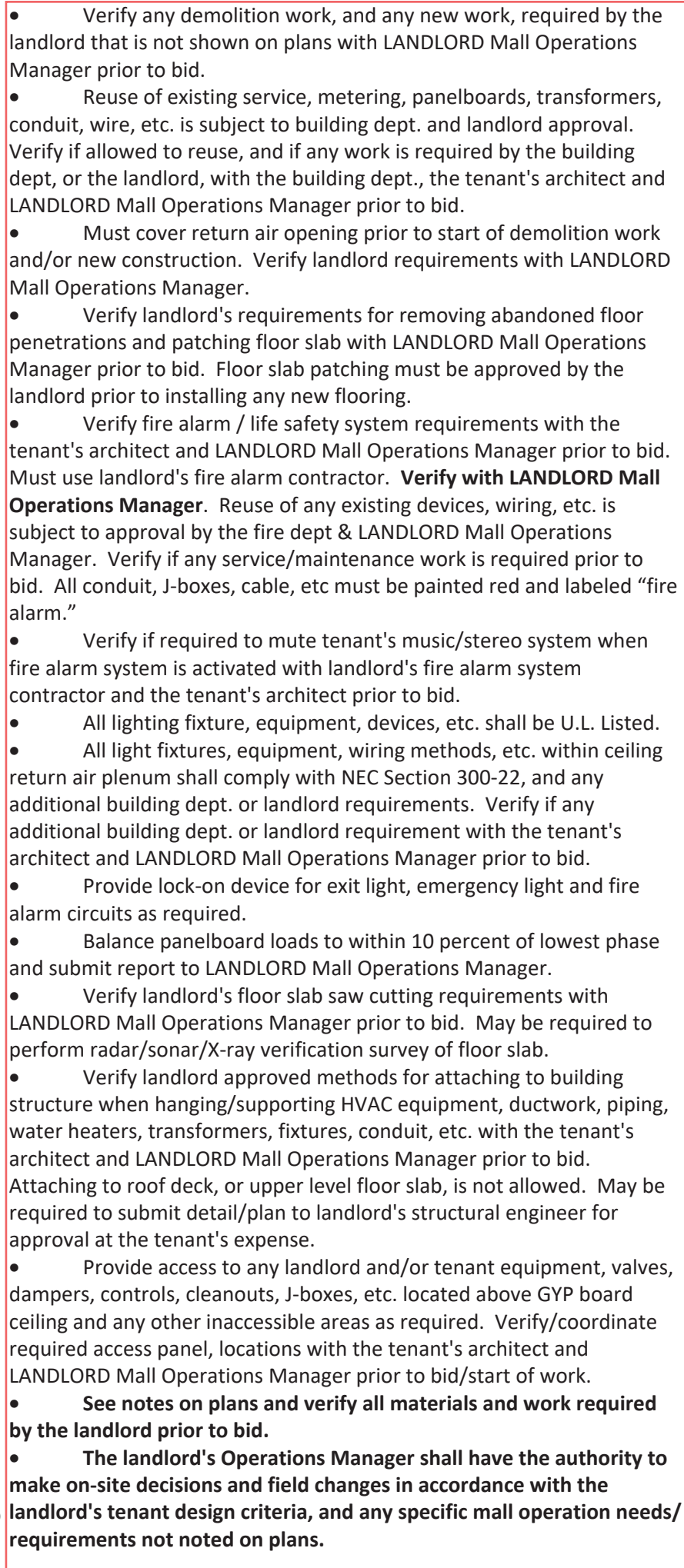
SHEET NUMBER:

E1.0









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PROFESSIONAL SEAL:

**CONTRACTOR'S NOTES:**

WENTEN DIMENSIONS HAD PREFERENCE OVER SCALED DIMENSIONS, DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS. IF ANY STATE OF CONSTRUCTION, CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR CONFLICTS WITH THE EXISTING AND THE EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.

DATE	ISSUE
02/25/25	CD SET- CLIENT/LL REVIEW
03/24/25	PERMIT SET

△	DATE	REVISION
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**A | X**  
ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

PROJECT NUMBER: 12402-25  
AREA: 4,440 SQ. FT.  
DRAWN BY: NYE REV: 1

TITLE:

# ELECTRICAL POWER PLAN

SHEET NUMBER:

## E3.0

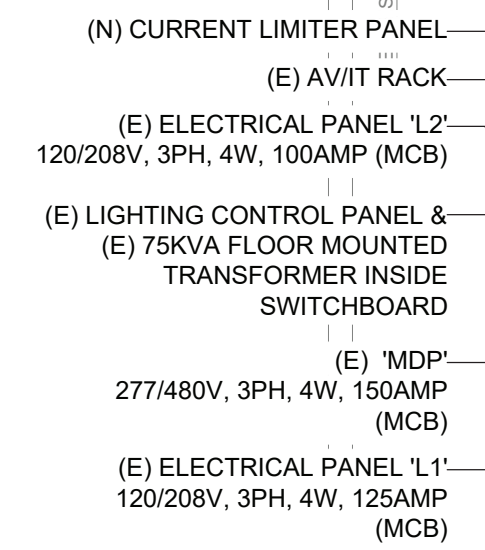
## KEY NOTES

LEGEND	DESCRIPTION	SYMBOL
1. ALL RECEPTILES IN SALES SHALL BE LOCATED AS SHOWN ON THE POWER PLAN. VERIFY HEIGHT & ADA COMPLIANCE WITH CLIENT & ARCHITECT.	HOME RUN	T
2. ALL SWITCHES SHALL BE LOCATED "46" A.F.F. AT CENTER U.O.N.	SIMPLEX RECEPTACLE @ 18" A.F.F. U.N.O. MOUNTED AT CODE HEIGHT	SP
3. NO ELECTRICAL DEVICES SHALL BE MOUNTED ON ANY WALLS, OR CEILINGS WITHOUT FIRST DISCUSSING WITH THE ARCHITECT.	DUPLEX RECEPTACLE @ 18" A.F.F. U.N.O. MOUNTED AT CODE HEIGHT.	MD
4. CONTRACTOR TO CONFIRM LOCATION OF WIRING CONNECTION POINT PER EACH UNIT WITH MILLWORK SHOP DRAWINGS. CONTRACTOR TO INFORM THE CLIENT AND THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE APPROVED MILLWORK SHOP DRAWINGS AND THE ELECTRICAL PLANS PRIOR TO START OF WORK.	GROUND FAULT PROTECTED DUPLEX RECEPTACLE	SC
5. CONTRACTOR TO COORDINATE ELECTRICAL CONNECTIONS WITH MILLWORKER PRIOR TO COMMENCEMENT OF ANY DRILLING.	DEDICATED GROUND FAULT PROTECTED DUPLEX RECEPTACLE.	SC
6. ALL FLOOR PENETRATIONS MUST BE SEALED, FIREPROOFED AND PATCHED AS REQUIRED.	QUAD RECEPTACLE @ 18" A.F.F. U.N.O. MOUNTED AT CODE HEIGHT.	SC
7. CONFIRM ALL TELEPHONE AND DATA CABLE SPECIFICATIONS WITH VENDOR PRIOR TO BID AND START OF WORK.	SINGLE OUTLET/SPECIAL RECEPTACLE	SC
8. CONTRACTOR TO CONFIRM LOCATION OF ALL T-STATS, SENSORS & SMOKE DUCT TEST STATION, ETC. WITH MECHANICAL DRAWINGS PRIOR TO WIRING AND INSTALLATIONS.	DUPLEX RECEPTACLE - FLOOR	SC
9. ALL MILLWORK DRIVERS MUST BE RATED TO COMPLY WITH LOCAL CODE AND JURISDICTION.	QUAD RECEPTACLE - FLOOR	SC
10. DRIVERS QUANTITY PER EACH MILLWORK UNIT TO BE VERIFIED BY MILLWORK VENDOR AND SHOP DRAWINGS. CONFIRM FINAL LOCATIONS AND QUANTITIES WITH MILLWORK SHOP DRAWINGS.	DUPLEX RECEPTACLE - CEILING	SC
11. BASED ON DRIVERS, ACCURATE NUMBER OF J-BOX TO BE ESTIMATED.	TELEPHONE OUTLET AT +18"A.F.F., U.N.O. ; x = 2 (DUPLEX) ; x=4 (QUAD)	SC
12. CONTRACTOR TO MAKE FINAL CONNECTIONS FROM DRIVERS TO J-BOXES PER DRIVER MANUFACTURER'S REQUIREMENT. CONTRACTOR TO MOUNT/LABEL DRIVERS ON PLYWOOD PANELS.	TELEPHONE / DATA COMBINATION OUTLET AT +18"A.F.F., U.N.O.	SC
13. CONTRACTOR TO PROVIDE TEMPORARY POWER BOXES DURING CONSTRUCTION.	DATA RECEPTACLE - FLOOR	SC
14. CONTRACTOR TO PROVIDE TEMPORARY LIGHTING DURING CONSTRUCTION.	TELEPHONE RECEPTACLE - FLOOR	SC
15. ALL FIRE ALARM DEVICES SHOWN FOR REFERENCE ONLY. COORDINATE WITH FIRE ALARM CONTRACTOR FOR ADDITIONAL INFORMATION.	TELEPHONE / DATA COMBINATION RECEPTACLE - FLOOR	SC
16. XRAY FOR TRENCHING/CORING TO BE APPROVED BY LANDLORD.	DATA RECEPTACLE-CEILING	SC
	JUNCTION BOX-CEILING	SC
	JUNCTION BOX-WALL	SC
	DISCONNECT SWITCH	SC
	ELECTRICAL PANEL	SC
	DUCT SMOKE DETECTOR	SC
	THERMOSTAT	SC
	SOUND SPEAKER (AUDIO / MUSIC SYSTEM TO BE CONNECTED TO RELAY THAT INTERRUPTS AUDIO DURING A FIRE ALARM ACTIVATION. SEE ELECTRICAL DRAWINGS. INSTALL PENDANT IN SALES AREA AND SURFACE MOUNTED IN FR.	SC
	MOTION DETECTOR	SC
	360 CAMERA	SC
	SECURITY CAMERA WITH STEM SUPPORT (MUST BE LOWER THAN THE LIGHTS)	SC
	WIFI ANTENNA	SC
	WIRELESS DOOR CONTACT	SC
	HOUSING FOR 240W DRIVERS	SC
	MOTORISED DAMPER	SC
	INDOOR AC UNIT/EXHAUST FAN	SC
	MOTOR RATED SWITCH	SC
	FLOOR MOUNTED JUNCTION BOX	SC
	SHOPPER TRACK	SC
	ALARM KEYPAD	SC

**NOTE:**  
 1. NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.  
 2. ALL OUTLETS TO BE WHITE.  
**ABBREVIATION**  
 (E)- EXISTING; (R)- EXISTING RELOCATED; (C)- CEILING MOUNTED  
 (F)- FLOOR MOUNTED; (SW)- SHOW WINDOW, (USB)- USB/ DUPLEX  
 COMBINATION RECEPTACLE; (AC)- ABOVE COUNTER/SIDE RECEPTACLE;  
 (BC)- BELOW COUNTER/DESK RECEPTACLE; (S)- SHELF LEVEL  
 RECEPTACLE

	EXISTING ELECTRICAL PANELS SHALL REMAIN. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT RATING, TYPE, LOCATION AND ELEVATION OF EACH PANEL. IF FOUND INOPERABLE, BASE BID ACCORDINGLY. E.C. SHALL MAINTAIN CLEARANCE FOR ELECTRICAL PANEL PER NEC 110.26 (A) (1), REFER SHEET E4.0 ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION.	19	PROVIDE NEW THE BENJAMIN ARCHITECT TRACK LIGHT LIMITER PANEL CURRENTLY WITH THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENT WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.
2	ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF EXISTING RECEPTACLE IN PANSE AREA. IF RECEPTACLE IS INOPERABLE, PROVIDE NEW AS SHOWN. BASE BID ACCORDINGLY.	20	ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF EXISTING LIGHTING CONTROL PANEL USE IF POSSIBLE. OTHERWISE PROVIDE NEW LIGHTING CONTROL PANEL TIMING WITH A OVERRIDE SWITCH AS PER AX STANDARDS. BASE BID ACCORDINGLY.
3	JUNCTION BOX FOR UNDER CABINET LIGHTING. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE VENDOR/OWNER FOR EXACT LOCATION & ELECTRICAL REQUIREMENT PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.	21	EXISTING WATER HEATER (EX.EWH). ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT OPERABLE CONDITION WITH ARCHITECT/OWNER IN FIELD. VERIFY THE EXACT DISCONNECT SIZE FOR THE WATER HEATER. INFORM ENGINEER IN CASE OF ANY DISCREPANCY. BASE BID ACCORDINGLY.
4	POWER & DATA FOR MANAGERS DESK & SHIPPING/RECEIVING. ELECTRICAL CONTRACTOR TO COORDINATE MOUNTING HEIGHT, ELECTRICAL REQUIREMENT & LOCATION WITH OWNER/ ARCHITECT PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.	22	ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R RATED. IF FACTORY MOUNTED POWERED CONVENIENCE OUTLET NOT PROVIDED, 120V 20A OF WEATHER PROOF RECEPTACLE SHALL BE PROVIDED WITHIN 25FT OF ALL HVAC EQUIPMENT. FIELD COORDINATE EXACT LOCATION AND ADD ADDITIONAL RECEPTACLES IF REQUIRED, AS SHOWN.
5	JUNCTION BOX FOR FITTING ROOM MIRROR LIGHTING. COORDINATE MOUNTING HEIGHT & POWER REQUIREMENT WITH MILLWORK VENDOR PRIOR TO START OF WORK. BASE BID ACCORDINGLY.	23	EXISTING 174V RACK, G-0 TO PRICE ALT. 1 DISCONNECT AND REPLACE WITH NEW RACK AND NEW 4V RACK, ALT.2- CHECK WORKING IN GOOD CONDITIONS.
6	CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL OUTLET RECEPTACLE COVER PLATE TO BE INSTALLED TO START OF WORK.	24	FOR LED WALL: (4) CAT6 DATA OUTLETS & (3) 20 AMP CIRCUITS FINAL HEIGHT AND LOCATION TO BE COORDINATED WITH VENDOR & MILLWORKER PRIOR TO INSTALLATION. BASE BID ACCORDINGLY.
7	POWER AND DATA (2) 4 PORT DATA OUTLETS & (2) QUAD POWER OUTLETS FOR DEVICES IN CASH DESK AND FLOOR BOX/ JUNCTION BOX FOR BACK LIT SIGN. COORDINATE LOCATION WITH MILLWORK VENDOR PRIOR TO INSTALLATION.	25	JUNCTION BOX FOR COVE LED LIGHTING. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION AND ELECTRICAL CONNECTION REQUIREMENT WITH OWNER/ARCHITECT/MILLWORK VENDOR PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.
8	ALL MECHANICAL EQUIPMENTS SHALL BE PROVIDED WITH THE REQUIRED ROUGH-INS, MOCIP, AND WIRE SIZES REQUIREMENTS. THE ELECTRICAL CONTRACTOR MUST COORDINATE WITH THE MANUFACTURER FOR THE EXACT TYPE OF ROUGH-INS AND WIRE SIZE PRIOR TO THE COMMENCEMENT OF WORK. BASE BID ACCORDINGLY.	26	QUAD POWER UNDER ACCESSIBLE PANEL IN THE PLAFORM FOR ILLUMINATED PROPS. COORDINATE FINAL LOCATION & ELECTRICAL CONNECTION IN THE FIELD WITH GC AND MILLWORK VENDOR PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.
9	ROUTE CONDUIT IN OR BENEATH SLAB FOR POWER AND COMMUNICATION TO MILLWORK FIXTURE. RUN CONNECTION TO MILLWORK MOUNTED RECEPTACLES, DATA OUTLETS, AND JUNCTION BOX FOR CASH DESK BACKLIT. COORDINATE FINAL STUB UP LOCATION WITH CONTRACTOR AND MILLWORK VENDOR.		
10	JUNCTION BOX FOR DISPLAY LED LIGHTING INSIDE WATCH TOWER/EYEWEAR. ELECTRICAL CONTRACTOR TO COORDINATE FINAL LOCATION AND EXACT ELECTRICAL REQUIREMENT WITH VENDOR AND INSTALLER IN THE FIELD PRIOR TO START OF WORK. BASE BID ACCORDINGLY.		
11	ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOX FOR POWER CONNECTION OF UPPER FASCIA LED DISPLAY. COORDINATE FINAL LOCATION AND EXACT ELECTRICAL REQUIREMENT WITH VENDOR AND INSTALLER IN THE FIELD PRIOR TO START OF WORK. BASE BID ACCORDINGLY.		
12	ELECTRICAL CONTRACTOR TO PROVIDE DUPLEX OUTLET AS SHOWN FOR POWER CONNECTION OF VIDEO BANNER. COORDINATE FINAL LOCATION AND EXACT ELECTRICAL REQUIREMENT WITH VENDOR AND INSTALLER IN THE FIELD PRIOR TO START OF WORK. BASE BID ACCORDINGLY.		
13	JUNCTION BOX FOR LUMINOUS LOGO WITH TUNABLE LIGHT. PROVIDE ACCESSIBLE J-BOX WITH SERVICE DISCONNECT SWITCH FOR TENANT SIGN. COORDINATE EXACT LOCATION AND ELECTRICAL CONNECTION REQUIREMENT WITH SIGN VENDOR PRIOR TO START OF WORK. BASE BID ACCORDINGLY.		
14	ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION AND EXACT LOCATION OF EXISTING GAS AND SHOPPER TRUCK SYSTEM. REUSE IF POSSIBLE. OTHERWISE PROVIDE NEW GAS SYSTEM. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENT WITH ARCHITECT/OWNER/VENDOR PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.		
15	JUNCTION BOX FOR STOREFRONT WINDOW FACADE BACKLIT SYSTEM (AX SIGN). COORDINATE FINAL LOCATION & ELECTRICAL CONNECTION IN THE FIELD WITH GC AND MILLWORK VENDOR PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.		
16	ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE OPERABLE CONDITION OF EXISTING SHOW WINDOW RECEPTACLE. REUSE IF POSSIBLE. OTHERWISE, PROVIDE NEW SHOW WINDOW RECEPTACLE AS PER PLANS AND NEC 210.62 IF REQUIRED.		
17	APPROXIMATE LOCATION OF CONDUIT ROUTE BENEATH CONCRETE SLAB. COORDINATE INSTALLATION ON SITE WITH CONTRACTOR. COORDINATE CORE DRILL REQUIREMENT WITH LANDLORD PRIOR TO START OF WORK. ALL PENETRATION MUST BE SEALED AND FIREPROOF AS REQUIRED. ROUTE TO NEAREST WALL TO CEILING THE TO PANEL LOCATION.		
18	NEW INSTANTANEOUS WATER HEATER (EWH-1). COORDINATE EXACT POWER REQUIREMENTS WITH PLUMBING CONTRACTOR/MANUFACTURER SPECIFICATION. BASE BID ACCORDINGLY.		





LEGEND:

_____	NEW (N)
-----	EXISTING (E)

CONSULTANTS (ENGINEER):  
**NY ENGINEERS**  
NEARBY ENGINEERS  
382 NE 191ST STREET SUITE 49674,  
MIAMI, FL 33179  
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WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL:

**CONTRACTOR'S NOTES:**

WITNESSED DIMENSIONS HAD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BID. REPORT ANY DISCREPANCY ANY CONDITION WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF, THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PERIOD AND BEFORE START OF CONSTRUCTION. THE CONTRACTORS NEED TO BE APPROVED BY ARMAHI EXECUTIVE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR CONFLICTS BETWEEN THE PLANS AND THE EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.

NOTE:  
GC REQUIRED TO ALSO REVIEW SHOP DRAWING SET FOR LED FASCIA  
AND LEDWALL BEHIND CASHDESK FROM VENDOR.

NOTE:  
MD, DC, ARE WIRELESS CAMERAS REQUIRE CAT6 CABLE KEY PAD IS HARD  
WIRED 22/4 SECURITY WIRE FROM ALARM SYSTEM TO KEYPAD

NOTE:  
ALL MILLWORK DRIVER HOUSING SHOULD BE PLACED PER DRAWING FOR  
ACCESSIBILITY FOR MAINTENANCE OR MOUNTED ABOVE CEILING  
WITH AN ACCESS PANEL OR ABOVE MW WALLS WITH A COVER

NOTE:  
GC TO PROVIDE CABLING; CCTV, AV & WIFI EQUIPMENT BY GA VENDORS

## 1 LOW VOLTAGE PLAN

## GENERAL NOTES

1. ALL SECURITY DEVICE. CONTRACTOR TO RUN CONDUIT FROM ALL LOW VOLTAGE DEVICES TO IT RACK AT STOCK ROOM (ONE CABLE PER JACK). COORDINATE EXACT REQUIREMENTS WITH VENDORS.
2. CCTV CAMERAS ARE PROVIDED BY CLIENT'S VENDOR. CONTRACTOR TO COORDINATE INSTALLATION.
3. CONTRACTOR TO PROVIDE AND INSTALL TWO CAT6 DATA FOR STOPPER TRACK PEOPLE COUNTER.CONTRACTOR TO COORDINATE INSTALLATION.
4. CONTRACTOR TO PROVIDE AND INSTALL TWO CAT6 DATA FOR WIFI ROUTER/ANTENNA.CONTRACTOR TO COORDINATE INSTALLATION.
5. ALL EXPOSED LOW VOLTAGE WIRE TO BE BLACK.

NOTE:  
"MD" (MOTION DETECTORS), "DC" (DOOR CONTACTS), "GB"  
(GLASS BREAKERS) ARE WIRELESS.















"MD" & CAMERAS WILL NEED A STEM SUPPORT AND MUST BE LOWER THAN THE LIGHTS.

WIFI AP'S NEED TO BE LOWER THAN LIGHTS ON PENDANTS  
ALL OPEN CEILING, DUCTWORK, CONDUIT, ETC. TO BE  
PAINTED BLACK.

NOTE:  
ALL MILLWORK DRIVER HOUSING SHOULD BE ABOVE METAL  
CEILING FOR MAINTENANCE ACCESSIBILITY OR MOUNTED  
ABOVE WITH AN ACCESS PANEL.

NOTE:  
LED SCREEN BANNER NEEDS 5 20AMP CIRCUITS, 1 PER  
SHORT WALL & 3 FOR THE LONG WALL.PLEASE ALSO REVIEW  
DRAWING SET FROM VENDOR.

## ELECTRICAL LEGEND

LEGEND	DESCRIPTION
	SOUND SPEAKER (AUDIO / MUSIC SYSTEM TO BE CONNECTED TO RELAY THAT INTERRUPTS AUDIO DURING A FIRE ALARM ACTIVATION, SEE ELECTRICAL DRAWINGS. INSTALL PENDANT IN SALES AREA AND SURFACE MOUNTED IN FR.
	MOTION DETECTOR
	360 CAMERA
	SECURITY CAMERA WITH STEM SUPPORT (MUST BE LOWER THAN THE LIGHTS)
	WIFI ANTENNA
	WIRELESS DOOR CONTACT
	HOUSING FOR 240V DRIVERS
	MOTORIZED DAMPER
	INDOOR AC UNIT/EXHAUST FAN
	MOTOR RATED SWITCH
	FLOOR MOUNTED JUNCTION BOX
	DATA OUTLET AT 18" A.F.F., U.N.O. : x = 2 (DUPLEX) ; x=4 (QUAD)
	SHOPPER TRACK
	ALARM KEYPAD

**NOTE:**  
1. NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.  
2. ALL OUTLETS TO BE WHITE.

**ABBREVIATION:**  
(E) - EXISTING; (R) - EXISTING RELOCATED; (C) - CEILING MOUNTED  
(F) - FLOOR MOUNTED; (SW) - SHOW WINDOW; (USB) - USB/ DUPLEX COMBINATION RECEPTACLE;  
(A) - ABOVE COUNTER/DESK RECEPTACLE; (BC) - BELOW COUNTER/DESK RECEPTACLE; (SL) -  
SHELF LEVEL RECEPTACLE

## KEY NOTES

- |   |  |
|---|--|
| 1 | EXISTING IT/AV RACK. G.C TO PRICE ALT 1:DISCONNECT AND REPLACE WITH NEW IT RACK AND NEW AV RACK, ALT2: CHECK WORKING IN GOOD CONDITIONS. SEE ARCHITECTURAL PLAN FOR MORE INFORMATION.  |
| 2 | LOW VOLTAGE DEVICES (i.e., SPEAKERS, SECURITY SYSTEM DEVICES, CAMERAS & WIFI ANTENNA'S) ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE FINAL LOCATION, QUANTITY WITH ARCHITECT/OWNER AND EXACT ELECTRICAL REQUIREMENTS WITH SYSTEM VENDOR PRIOR TO ROUGH PER THE SITE CONDITIONS. PROVIDE DATA OUTLETS AS REQUIRED. ALSO VERIFY OPERABLE CONDITION OF EXISTING LOW VOLTAGE DEVICES (IF ANY), PROVIDE NEW IF FOUND INOPERABLE. |

△	DATE	REVISION
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**A | X**  
ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025  
PROJECT NUMBER: 12402-25  
AREA: 4,440 SQ. FT.  
DRAWN BY: NYE REVIEWED BY: NYE

**TITLE:**

LOW VOLTAGE  
PLAN

SHEET NUMBER

### E3.1



ELECTRICAL PANEL SCHEDULE AND LOAD SUMMARY

ELECTRICAL PANEL SCHEDULE																				
PANELBOARD			MDP		VOLTAGE		277 / 480 V		PHASE		3		WIRE		4					
PANEL TYPE			MCB		MOUNTING		SURFACE		BUS RATING		150A		AIC RATING		V.I.F		1	2		
NEMA TYPE ENCLOSURE			1						OPTIONS						EXISTING PANEL					
CKT. NO.	EQT. TAG	CKT. TAG	DESCRIPTION			POLE	WIRE SIZE	BKR. SIZE	TOTAL WATTS	PHASE	TOTAL WATTS	BKR. SIZE	WIRE SIZE	POLE	DESCRIPTION			CKT. TAG	EQT. TAG	CKT. NO.
1			(E) NEW HVAC UNIT 'ACCU-1'			3	12	15	3,045	A	12,868	110	3	3	EXISTING 75KVA TRANSFORMER FEEDING PANEL 'L1' & 'L2'			(E)		2
3									3,045	B	12,868									4
5									3,045	C	16,590									6
7			(E) NEW HVAC UNIT 'ACCU-2'			3	12	15	2,602	A	20	20	1	1	SPARE					8
9									2,602	B	20									10
11									2,602	C	20									12
13			SPARE			1	20			A	20	1	1	SPARE					14	
15			SPARE			1	20			B	20	1	1	SPARE					16	
17			SPARE			1	20			C	20	1	1	SPARE					18	
ALL PHASES TO BE BALANCED TO WITHIN 7%																	(E) EXISTING TO REMAIN			
A= 18,515 WATTS																	(N) NEW CIRCUIT			
B= 18,455 WATTS																	GFCI GROUND FAULT CURRENT INTERRUPTER			
C= 22,237 WATTS																	IG CIRCUITS WITH ISOLATED GROUND			
																	TC CIRCUITS ON TIMECLOCK			
																	EMS ROUTING TO THE EMS PANEL			
																	C BREAKER LOCK			
																	a,b,c SWITCHES CONTROLLING LIGHTS			
TOTAL CONNECTED LOAD			59,207		WATTS		72		AMPS											
TOTAL DEMAND LOAD			64,462		WATTS		78		AMPS											

PANEL SCHEDULE GENERAL NOTES:

- ALL CIRCUITING SHOWN IS FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY CIRCUITING OF THE EXISTING DEVICES ON FIELD AND INFORM ENGINEER FOR DISCREPANCIES.
- ELECTRICAL CONTRACTOR TO VERIFY THE EXACT PANEL SIZES AND INCOMING FEEDER SIZE.
- ALL EXISTING TO REMAIN ELECTRICAL DEVICES/EQUIPMENTS SHALL BE CONNECTED TO RESPECTIVE NEW/EXISTING PANELS. E.C. TO VERIFY EXACT DETAILS & CIRCUIT NUMBER ON FIELD.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH THE MANUFACTURER OF EQUIPMENT FOR THE WIRE SIZE & RATING OF MOCB BEFORE THE COMMENCEMENT OF WORK.
- ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENT OF PLUMBING/MECHANICAL EQUIPMENTS WITH RESPECTIVE SYSTEM CONTRACTOR/OWNER/ARCHITECT.
- E.C. SHALL VERIFY THE EXACT CIRCUIT, CIRCUIT NUMBER IN FIELD & ADJUST / MODIFY CIRCUITING AS REQUIRED.

EXISTING PANELBOARD KEYED NOTE: #

- NEW BREAKERS MAY BE REQUIRED FOR USE IN THE EXISTING PANELBOARD TO MATCH RATING INDICATED IN THE PANEL SCHEDULE. PRIOR TO BID/PRICING, THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXISTING-TO-REMAIN PANELBOARD MANUFACTURER AND MODEL NUMBER TO ENSURE THAT REPLACEMENT BREAKERS ARE AVAILABLE WHERE BREAKER AVAILABILITY ISSUES ARISE, NOTIFY THE PROJECT MANAGER PRIOR TO BID/PRICING.
- DESIGNATED CIRCUIT NUMBER SHOWN ON THE PANEL SCHEDULE FOR A CERTAIN LOAD, MAY BE DIFFERENT THAN THE ACTUAL CIRCUIT NUMBER IN THE EXISTING PANELBOARD. ALL EXISTING-TO-REMAIN ELECTRICAL LOADS SHALL REMAIN CONNECTED TO THE SAME BREAKER AND CIRCUIT DESIGNATION. AVAILABLE SPARES AND SPACES SHALL BE UTILIZED TO FEED THE NEW LOADS.

CODE NOTE PER NEC 408.4: EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. CIRCUIT DIRECTORY SHALL BE LOCATED ON THE FACE OR INSIDE THE PANEL DOOR IN THE CASE OF THE PANELBOARD.

CONTRACTOR TO VERIFY ANY EXISTING CIRCUITS TO REMAIN, MAINTAIN AS REQUIRED. CONTRACTOR TO MAKE UNUSED BRANCH CIRCUIT BREAKER SPARE AND AVAILABLE FOR NEW CIRCUIT.

ALL ELECTRICAL WORK SHALL BE DESIGNED PER 2022 CALIFORNIA ELECTRICAL CODE (CEC-2020) AND CALIFORNIA ENERGY COMPLIANCE CODE 2022 (TITLE 24)

ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.

- Reuse of existing service, metering, panelboards, transformers, conduit, wire, etc. is subject to building dept. and landlord approval. Verify if allowed to reuse, and if any work is required by the building dept. or the landlord, with the building dept., the tenant's architect and LANDLORD Mall Operations Manager prior to bid.
- Any work outside of tenant's space shall be by a landlord approved electrical contractor at the tenant's expense.

ELECTRICAL PANEL SCHEDULE

PANELBOARD																
PANEL TYPE		L2		VOLTAGE		120 / 208 V		PHASE		3		WIRE		4		
NEMA TYPE ENCLOSURE		MCB		MOUNTING		SURFACE		RATING		125A		AIC RATING		V.I.F.		
CKT. NO.	EQT. TAG	CKT. TAG	DESCRIPTION	POLE	WIRE SIZE	BKR. SIZE	TOTAL WATTS	PHASE	TOTAL WATTS	BKR. SIZE	WIRE SIZE	POLE	DESCRIPTION	CKT. TAG	EQT. TAG	CKT. NO.
1		(E)	NEW HVAC UNIT 'AHU-1'	2	12	15	728	A	360	20	12	1	PANTRY OUTLET	(N)		2
3							728	B	1,200	20	12	1	MICROWAVE	(N)		4
5		(E)	NEW HVAC UNIT 'AHU-2'	2	12	15	520	C	360	20	12	1	BOB & RESTROOM AREA RECEPTACLE	(N)		6
7							520	A	720	20	12	1	MANAGER'S DESK RECEPTACLE	(N)		8
9		(E)	EXISTING WATER HEATER (EXLWH)	2	10	30	1,800	B	720	20	12	1	SHIPPING & RECEIVING RECEPTACLE	(N)		10
11							1,800	C	500	20	12	1	EXISTING TORQUELESS DAMPERS	(N)		12
13		(N)	SENSOR MATH SYSTEM	1	12	20	500	A	360	20	12	1	IT RACK	(N)		14
15	IG	(N)	CASHWRAP RECEPTACLES	1	12	20	360	B	700	20	12	1	REFRIGERATOR	(N)		16
17	IG	(N)	CASHWRAP RECEPTACLES	1	12	20	360	C	3,600	30	10	1	INSTA. WATER HEATER	(N)		18
19	(N)		INVERTER (INV-1)	1	12	20	720	A	360	20	12	1	REC. CHARGING DEVICES	(N)		20
21	(E)		HVAC RECEPT	1	12	20	360	B	200	20	12	1	WATER COOLER	(N)		22
23	(N)		UNDER CABINET LIGHTING	1	12	20	750	C	360	20	12	1	UNDER CABINET LIGHTING	(N)	GFCI	24
25		SPARE		1				A	20				SPARE			26
27		SPARE		1				B	20				SPARE			28
29		SPARE		1				C	20				SPARE			30
31		SPARE		1				A	20				SPARE			32
33		SPARE		1				B	20				SPARE			34
35		SPARE		1				C	20				SPARE			36
37		SPARE		1				A	20				SPARE			38
39		SPARE		1				B	20				SPARE			40
41		SPARE		1				C	20				SPARE			42
ALL PHASES TO BE BALANCED TO WITHIN 7%																
(E) EXISTING TO REMAIN																
(N) NEW CIRCUIT																
GFCI GROUND FAULT CURRENT INTERRUPTER																
IG CIRCUITS WITH ISOLATED GROUND																
CLP CURRENT LIMITER PANEL																
LCP LIGHTING CONTROL PANEL																
C BREAKER LOCK																
a,b,c SWITCHES CONTROLLING LIGHTS																
TOTAL CONNECTED LOAD		18,586		WATTS		52		AMPS								
TOTAL DEMAND LOAD		18,586		WATTS		52		AMPS								

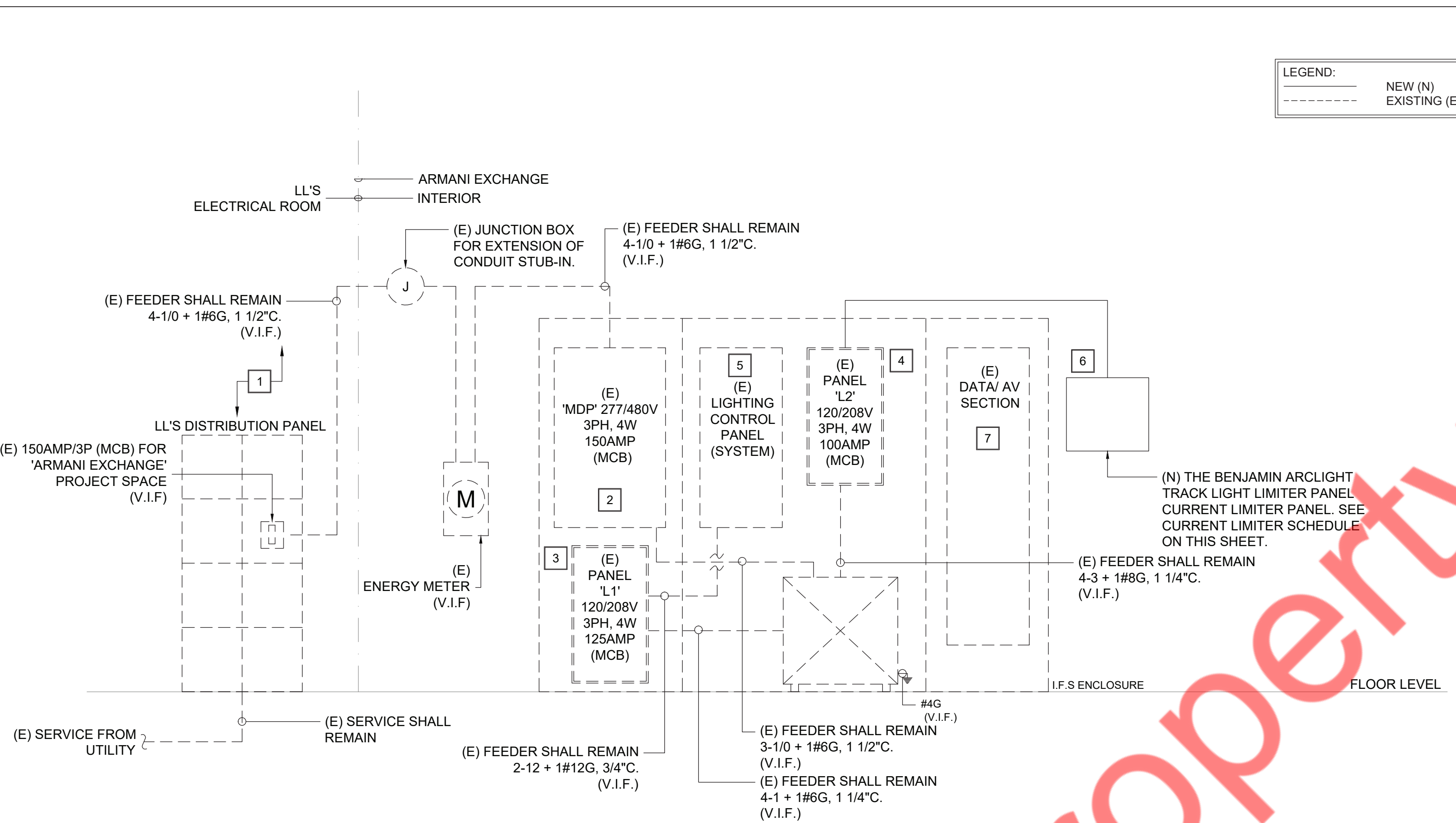
ELECTRICAL LOAD SUMMARY

DESCRIPTION	NEC CONNECTED KW	VOLT	PHASE	NEC DEMAND FACTOR	NEC DEMAND KW
LIGHTING - 120V	2.7	120	1	1.25	3.4
DISPLAY LIGHTING	8.6	120	1	1.25	10.8
ILLUMINATED BLADE SIGN	1.2	120	1	1.25	1.5
TRACK LIGHTS	3.1	120	1	TRACK LENGTH	3.9
RECEPTACLES	9.7	120	1	>10kW=10+(0.5*(KW-10))	9.7
STOREFRONT SIGN	2.4	120	1	1.25	3.0
S/W OUTLETS	3.0	120	1	1.25	3.8
AHU	2.5	208	1	1.00	2.5
PANTRY EQUIPMENT	1.9	120	1	1.00	1.9
ACCU	16.9	480	3	1.00	16.9
EXISTING HOT WATER HEATER	3.6	208	1	1.00	3.6
INSTANEOUS HOT WATER HEATER	3.6	120	1	1.00	3.6
TOTALS	59.2				64.5

NOTES:  
\* USE GREATER VALUE OF THE TWO CATEGORIES.  
\*\* 125% OF THE LARGEST MOTOR OR COMPRESSOR IN SYSTEM APPLIED ONLY ON ONE UNIT.  
\*\*\* N.E.C. ARTICLE 220-12 REQUIREMENT (200 VA PER FOOT OF SHOW WINDOW)  
MINUS ACTUAL SHOW WINDOW LIGHTING KVA.

N.E.C. DEMAND KVA x 1.000		MINIMUM FEEDER AMPERAGE	
64.5	x 1.000 =	64,462	77.5 AMPS USE (EXISTING) 150AMP FEEDER.
480	x 1.732 =	831	

ELECTRICAL RISER DIAGRAM



All existing conditions are as-is where-is. There is no landlord's work. Tenant GC must field verify prior to submit the bid.

RISER KEY NOTES

- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH LANDLORD/OWNER FOR EXACT POWER DISTRIBUTION, LOCATION PRIOR TO COMMENCING ANY WORK. INFORM ENGINEER ON RECORD FOR ANY DISCREPANCIES. BASE BID ACCORDINGLY.
- EXISTING 150A (MCB), 277/480V, 3-PHASE, 4-WIRE "MDP" TO REMAIN. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF THE PANEL. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- EXISTING 125A (MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "L1" TO REMAIN. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF THE PANEL. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- EXISTING 100A (MCB), 120/208V, 3-PHASE, 4-WIRE ELECTRICAL PANEL "L1" TO REMAIN. ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF THE PANEL. REPLACE IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- ELECTRICAL CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF EXISTING LIGHTING CONTROL PANEL, REUSE IF POSSIBLE. OTHERWISE PROVIDE NEW LIGHTING CONTROL PANEL/ TIMER WITH A OVERRIDE SWITCH AS PER AX STANDARDS. BASE BID ACCORDINGLY.
- PROVIDE NEW BENJAMIN ARCLIGHT TRACK LIGHT LIMITER PANEL. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENT WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. BASE BID ACCORDINGLY.
- EXISTING IT/AV RACK. G.C TO PRICE ALT 1: DISCONNECT AND REPLACE WITH NEW IT RACK AND NEW AV RACK, ALT2: CHECK WORKING IN GOOD CONDITIONS.

RISER DIAGRAM NOTES:

- HVAC CIRCUIT BREAKERS TO BE "HACR" TYPE WHERE REQUIRED BY EQUIPMENT NAMEPLATE PER N.E.C.
- BALANCE ALL PANELS AND ELECTRICAL EQUIPMENT, UNDER LOAD CONDITIONS, TO 3% BETWEEN PHASES. A/B, B/C, C/A REGARDLESS OF CIRCUITING INDICATED. PROVIDE BALANCE SHEET TO CONSTRUCTION MANAGER AT PUNCHLIST.
- PROPER CLEARANCE MUST BE MAINTAINED ABOUT ELECTRICAL EQUIPMENT PER N.E.C. FIELD VERIFY EXACT MOUNTING SPACE AVAILABLE IN ELECTRICAL ROOM/AREA PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.
- MAKE ALL FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM. ALL CONNECTIONS/DISCONNECTIONS TO LANDLORDS/UTILITIES SERVICE EQUIPMENT SHALL BE AS DIRECTED BY LANDLORDS/UTILITIES SITE REPRESENTATIVE. TENANT GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TERMINATION/TERMINATION EXPENSES.
- SYSTEM SHALL BE GROUNDED TO THE MAIN BUILDING'S GROUNDING SYSTEM.
- DISCONNECT SWITCHES AND PANELS SHALL BE INSTALLED ON PLYWOOD BACKERBOARDS.
- TENANT CONTRACTOR MUST VERIFY ELECTRICAL SERVICE, SUB-FEED WIRING AND PANELS PRIOR TO START OF TENANT'S ELECTRICAL WORK. TENANT GENERAL CONTRACTOR SHALL MAKE APPLICATION TO THE LOCAL UTILITY FOR CONTINUED METERED ELECTRIC SERVICE IN THE TENANT'S NAME. TENANT GENERAL CONTRACTOR SHALL CONFIRM ALL LOCAL UTILITY GUIDELINES AND REQUIREMENTS PRIOR TO BID. SHALL INCLUDE THE COSTS OF THESE REQUIREMENTS IN THE BID, AND SHALL COMPLY WITH THEM DURING CONSTRUCTION. AVAILABLE FAULT CURRENT AT SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER NATIONAL ELECTRICAL CODE ARTICLE 110.24.
- CONTRACTOR SHALL VERIFY INCOMING SERVICE AMPERAGE, WIRE SIZING AND DISTRIBUTION.
- CONTRACTOR SHALL COORDINATE WITH BASE BUILDING FOR THE EXACT LOCATION OF THE EXISTING SWITCH GEAR AND EXACT POWER DISTRIBUTION.
- CONTRACTOR SHALL VERIFY OPERABLE CONDITION INFIELD OF ALL EXISTING TO REMAIN ELECTRICAL DEVICES/EQUIPMENTS AND REPLACE WITH NEW IF FOUND INOPERABLE.

VERIFY THE FOLLOWING PRIOR TO BID PRICING:

- EXISTING CONDUIT AND FEEDERS SIZE BETWEEN TENANT SPACE AND LANDLORD SWITCHBOARD.
- EXISTING MAIN SERVICE DISCONNECT RATING.
- EXISTING METER.

IF THE EXISTING SERVICE DISCONNECT AND FEEDERS ARE RATED FOR LESS THAN THE RATING SHOWN ON THIS RISER, NOTIFY THE PROJECT MANAGER AND ENGINEER IMMEDIATELY PRIOR TO SUBMITTING BID/ PRICING PACKAGE SO DRAWINGS CAN BE REVISED AND UPDATED ACCORDINGLY.

ELECTRICAL WORK BEING SHOWN IN SCHEMATIC IS EXISTING UNLESS OTHERWISE NOTED.

CONTRACTOR TO VERIFY EXISTING CONDUIT DURING BIDDING STAGE AND REPORT TO TENANT ARCHITECT ANY DISCREPANCIES THAT IS DIFFERENT THAN SHOWN ON PLANS.

CONTRACTOR TO PROVIDE NEW NAME PLATE ON ELECTRICAL METER FOR IDENTIFICATION.

LCP & CURRENT LIMITER PANEL SCHEDULE

LIGHTING CONTROL RELAY PANEL SCHEDULE							
CHANNEL	CIRCUIT .NO	LOAD NAME	ZONE				
			1	2	3	4	5
1	L1-1	STOREFRONT SIGN	X				
2	L1-13	STOREFRONT TRACKLIGHT	X				
3	L1-5	S/W OUTLETS	X				
4	L1-7	S/W OUTLETS	X				
5	L1-17	STOREFRONT AX SIGN	X				
6	L1-19	ILLUMINATED PROPS	X				
7	L1-21	STOREFRONT AX FOCUS LIGHTS	X				
8	L1-27	STOREFRONT LOGO	X				
9	L1-28	ILLUMINATED BLADE SIGN	X				
10	L1-22	STOREFRONT COVE LIGHTS	X				
11	L1-24	UPPER FASCIA LED		X			
12	L1-26	UPPER FASCIA LED		X			
13	L1-6	FITTING RM LIGHTS		X			
14	L1-8	SALES AREA FOCUS LIGHTS		X			
15	L1-18	SALES AREA FOCUS LIGHTS		X			
16	L1-20	EYEWEAR DISPLAY		X			
17	L1-29	VIDEO BANNER		X			
18	L1-31	VIDEO BANNER		X			
19	L1-10	SALES AREA TRACKLIGHTS			X		
20	L1-12	SALES AREA TRACKLIGHTS			X		
21	L1-14	SALES AREA TRACKLIGHTS			X		
22	L1-16	SALES AREA TRACKLIGHTS			X		
ZONE	DESCRIPTION						
1	TIME SCHEDULE ON/OFF. COORDINATE WITH OWNER FOR PROGRAMMING SCHEDULE						
2	(A) TIME SCHEDULE AUTO 50% ON. (B) OPTION TO MANUAL OF/OFF/DIM.						
	(C) TIME SCHEDULE AUTO OFF WITH OPTION TO OVERRIDE FOR 90-MINUTES VIA MASTER SWITCH						

TIME CLOCK SCHEDULE:

CONTRACTOR TO SET TIME CLOCK SETTINGS AND VERIFY WITH OWNER/ GA OPERATIONS:

- LIGHTING SHALL BE "ON" DAILY FROM 8:00AM TO 11:00PM.
- DURING SET "OFF" TIME LIGHTING TO BE CONTROLLED BY A 2-HR MANUAL OVERRIDE SWITCH.

BENJAMIN ARCLIGHT CURRENT LIMITING PANEL SCHEDULE				
CHANNEL	CIRCUIT .NO	LOAD NAME	*VA (WATTAGE) REQUIRED	BREAKER SIZE (AMPERAGE)
1	L1-13	STOREFRONT TRACKLIGHT	240	2
2	L1-10	SALES AREA TRACKLIGHTS	620	6
3	L1-12	SALES AREA TRACKLIGHTS	720	6



ENERGY ANALYSIS

STATE OF CALIFORNIA  
Indoor Lighting

CALIFORNIA ENERGY COMMISSION  
NIEC-1314

CERTIFICATE OF COMPLIANCE

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Project Name: AX  
Report Page: (Page 1 of 8)  
Project Address: 2025-02-27T01:38:44-05:00  
Date Prepared:

A. GENERAL INFORMATION

01 Project Location (city)	Glendale	04 Total Conditioned Floor Area (ft²)	4,440
02 Climate Zone	9	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1
• Retail			

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(c) or 141.0(b)(2) / 180.2(b)(4) for alterations.

Scope of Work	02 Conditioned Spaces	03	04 Unconditioned Spaces	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
<input checked="" type="checkbox"/> New Lighting System	Complete Building Method	4440	N/A	0
<input type="checkbox"/> New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)		4440		

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Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000  
Schema Version: rev 20220101

Compliance ID: 261288-0225-0007  
Report Generated: 2025-02-26 22:38:47

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C. COMPLIANCE RESULTS

If any cell in this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b) / 170.2(c)	Allowed Lighting Power per 140.6(b) / 170.2(c) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(a) (Watts)			Compliance Results
	01	02	03	04	05	06	07	08	
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(b)(4)	Area Category Additional 140.6(c)3 / 170.2(b)(4) (1)	Tailored 140.6(c)3 / 170.2(b)(4) (1)	Total Allowed (Watts)	Total Designed (Watts)	Adjustments TAIL Lighting Control Credits 140.6(a)2 / 170.2(a)(8) (-)	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 140.6 / 170.2(a)
Conditioned	(See Table I)	(See Table I)	(See Table I)	(See Table I)	3,361.8	2	3,865	(See Table F)	COMPLIES
Unconditioned						2	3,865	(See Table F)	COMPLIES
Rated Power Reduction Compliance (See Table G for Details)									COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is area-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Track Lighting has been included in this project, details are provided in Table G.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time:

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Project Name: AX  
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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table F. If using Table F to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces									
01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(a)2(c)	Design Watts	Field Inspector Pass Fail
L1	Track Light	Yes	NA	120	See Other Section	1	No	120	<input type="checkbox"/> <input type="checkbox"/>
L2	Track light	Yes	NA	2,025	See Other Section	1	No	2,025	<input type="checkbox"/> <input type="checkbox"/>
S1	LED PROSCITOR	No	NA	9.5	Mfr. Spec	60	No	570	<input type="checkbox"/> <input type="checkbox"/>
D	6" Recessed light fixture	No	NA	12	Mfr. Spec	15	No	180	<input type="checkbox"/> <input type="checkbox"/>
G (E)	Existing Light	No	NA	42	Mfr. Spec	20	No	840	<input type="checkbox"/> <input type="checkbox"/>
E3	Existing Recessed Light	No	NA	10	Other	1	No	10	<input type="checkbox"/> <input type="checkbox"/>
E	BACKLITE LINE LED PANEL	No	NA	30	Mfr. Spec	4	No	120	<input type="checkbox"/> <input type="checkbox"/>
Total Designed Watts: CONDITIONED SPACES							3,865		

G. MODULAR LIGHTING SYSTEMS

This table calculates wattage for modular lighting systems/ track lighting fixtures indicated on Table F and transfers wattage to Table F.

01	02	03	04
Name or Item Tag	Complete Track Description	Calculation Method per 130.2(b)(6)	Track Wattage
L1	Track Light	<input type="checkbox"/> Installed Luminaires vs Default 30 W/ft <input type="checkbox"/> If Current Limiter <input type="checkbox"/> If Overcurrent Protection Panel <input type="checkbox"/> If Power supplied by driver, power supply or transformer²	120
VA of current limiter			
120			
L2	Track light	<input type="checkbox"/> Installed Luminaires vs Default 30 W/ft <input type="checkbox"/> If Current Limiter <input type="checkbox"/> If Overcurrent Protection Panel <input type="checkbox"/> If Power supplied by driver, power supply or transformer²	2025
VA of current limiter			

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls		01	02	03
		Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)(4C)	Field Inspector Pass Fail
		NA < 4,000W subject to multilevel	Whole Building Auto Time Switch	<input type="checkbox"/> <input type="checkbox"/>

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000  
Schema Version: rev 20220101

Compliance ID: 261288-0225-0007  
Report Generated: 2025-02-26 22:38:47

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)(4A)	Multi-Level Controls 130.1(b) / 160.5(b)(4B)	Shut-Off Controls 130.1(c) / 160.5(b)(4C)	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)(4D)	Secondary Daylighting Systems 140.6(a)1 / 170.2(a)2	Field Inspector	
Sales Area	Retail	Auth. Personnel	Dimmer	Auto. Time Switch	NA: Not daylit zone	NA: Not daylit zone	No	<input type="checkbox"/> <input type="checkbox"/>
Back Of House	Retail	Auth. Personnel	Dimmer	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	<input type="checkbox"/> <input type="checkbox"/>
								13
								Plan Sheet Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(d) are being used.

Conditioned Spaces					
01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment
Sales Area	Retail	0.9	3,002	2,701.8	No
Back Of House	Retail	0.9	1,400	1,260	No
TOTALS		4,402	3,361.8		See Tables I, or F for detail

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000  
Schema Version: rev 20220101

Compliance ID: 261288-0225-0007  
Report Generated: 2025-02-26 22:38:47

STATE OF CALIFORNIA  
Indoor Lighting

CALIFORNIA ENERGY COMMISSION  
NIEC-1314

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)(2) for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(a) and 180.2(b)(4) for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

Project Name: AX  
Report Page: (Page 6 of 8)  
Project Address: 2025-02-27T01:38:44-05:00  
Date Prepared:

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE / SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOUR ALTERATIONS

This section does not apply to this project.

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000  
Schema Version: rev 20220101

Compliance ID: 261288-0225-0007  
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Project Name: AX  
Report Page: (Page 7 of 8)  
Project Address: 2025-02-27T01:38:44-05:00  
Date Prepared:

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and signed for record on file.

Form Title	
NIEC-131-E - Must be submitted for all buildings	

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and signed for record on file. For more information visit: <http://www.energy.ca.gov/titles24/attqs/providers.html>

Form Title	Systems/Spaces To Be Field Verified
NIEC-131-G2-A - Must be submitted for occupancy sensors and automatic time switch controls.	Sales Area; Back Of House

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000  
Schema Version: rev 20220101

Compliance ID: 261288-0225-0007  
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Project Name: AX  
Report Page: (Page 8 of 8)  
Project Address: 2025-02-27T01:38:44-05:00  
Date Prepared:

G. MODULAR LIGHTING SYSTEMS

This table calculates wattage for modular lighting systems/ track lighting fixtures indicated on Table F and transfers wattage to Table F.

01	02	03	04
Name or Item Tag	Complete Track Description	Calculation Method per 130.2(b)(6)	Track Wattage
L1	Track Light	<input type="checkbox"/> Installed Luminaires vs Default 30 W/ft <input type="checkbox"/> If Current Limiter <input type="checkbox"/> If Overcurrent Protection Panel <input type="checkbox"/> If Power supplied by driver, power supply or transformer²	120
VA of current limiter			
120			
L2	Track light	<input type="checkbox"/> Installed Luminaires vs Default 30 W/ft <input type="checkbox"/> If Current Limiter <input type="checkbox"/> If Overcurrent Protection Panel <input type="checkbox"/> If Power supplied by driver, power supply or transformer²	2025
VA of current limiter			

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls		01	02	03
		Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)(4C)	Field Inspector Pass Fail
		NA < 4,000W subject to multilevel	Whole Building Auto Time Switch	<input type="checkbox"/> <input type="checkbox"/>

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000  
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Compliance ID: 261288-0225-0007  
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STATE OF CALIFORNIA  
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Project Name: AX  
Report Page: (Page 9 of 8)  
Project Address: 2025-02-27T01:38:44-05:00  
Date Prepared:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company:	Signature Date:
Address:	CEC/RES Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 1 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy ratings and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design fixtures or system design fixtures identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000  
Schema Version: rev 20220101

Compliance ID: 261288-0225-0007  
Report Generated: 2025-02-26 22:38:47

CONSULTANTS (ENGINEER):

NY ENGINEERS

NEARBY ENGINEERS  
382 NE 191ST STREET SUITE 49674,  
MIAMI, FL 33179  
PH-914.257.3455  
WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL:

CONTRACTOR'S NOTES:

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DATE	ISSUE
02/25/25	CD SET- CLIENT/LL REVIEW
03/24/25	PERMIT SET

△ DATE REVISION

A|X  
ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025  
PROJECT NUMBER: 12402-25  
AREA: 4,440 SQ. FT.  
DRAWN BY: NYE  
REVIEWED BY: NYE

TITLE:

ENERGY ANALYSIS  
(TITLE 24)

SHEET NUMBER:

E5.0







BUILDING DATA											
PROJECT DESCRIPTION		BUILDING OCCUPANCY				BUILDING DESCRIPTION					FIRE ALARM SYSTEM FEATURES
	NEW BUILDING		ASSEMBLY GROUP A (A1,A2,A3,A4 AND A5)		RESIDENTIAL GROUP R (R1,R2 AND R3)	2	TOTAL NUMBER OF LEVELS		ATRIUM		NON-VOICE EVACUATION
	FIRE ALARM SYSTEM UPGRADE	X	BUSINESS GROUP B		STORAGE GROUP S (S1 AND S2)	2	ABOVE GROUND LEVELS	FIRST FL	FIRE DEPARTMENT ACCESS	POST FIRE SMOKE PURGE	VOICE EVACUATION
	LIFE SAFETY SYSTEM UPGRADE		EDUCATIONAL GROUP E		UTILITY AND MISCELLANEOUS GROUP U	-	BELOW GROUND LEVELS	X	FULLY SPRINKLERED	GENERATOR	PARTIAL/SELECTIVE EVACUATION
X	RENOVATION		FACTORY INDUSTRIAL GROUP F (F1 AND F2)		OTHER:	-	NUMBER OF ELEVATOR BANKS		PARTIALLY SPRINKLERED	FIRE PUMP	X GENERAL EVACUATION
	EMERGENCY REPAIR		HIGH-HAZARD GROUP H (H1,H2,H3,H4 AND H5)			-	NUMBER OF EGRESS STAIRS		NON-SPRINKLERED	OTHER:	DIGITAL ALARM COMMUNICATOR
	TENANT ADDITION		INSTITUTIONAL GROUP I (I1,I2 AND I3)						PRE-ACTION SPRINKLER	OTHER:	PRE-SIGNAL SYSTEM
	OTHER:		MERCANTILE GROUP M								FIRE FIGHTER'S TELEPHONE SYSTEM

FIRE ALARM I/O MATRIX

SYSTEM INPUTS INITIATING DEVICES		SYSTEM OUTPUTS INDICATING/CONTROLLED DEVICES		CONTROL UNIT ANNUNCIATION						NOTIFICATION						REQUIRED FIRE SAFETY CONTROL			
				A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1	MANUAL PULL STATION			●				●	●	●	●						●	●	1
2	WATERFLOW SWITCH			●				●	●	●			●				●	●	2
3	AREA SMOKE DETECTOR			●				●	●	●		●					●	●	3
4	SPRINKLER CONTROL VALVE/TAMPER SWITCH		●					●	●	●				●					4
5	FIRE ALARM AC POWER FAILURE					●	●	●	●	●					●				5
6	FIRE ALARM SYSTEM LOW BATTERY					●	●	●	●	●					●				6
7	OPEN CIRCUIT					●	●	●	●	●					●				7
8	GROUND CIRCUIT					●	●	●	●	●					●				8
9	NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●	●	●	●					●				9

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	HC	HUNG CEILING
C	CONDUIT	HC	HUNG CEILING
DGP	DATA GATHERING PANEL	NE	NEW TO REPLACE EXISTING
E	EXISTING	NTS	NOT TO SCALE
EL	EXISTING TO BE LOWERED	R	REMOVE
ELV	ELEVATOR LOBBY	RCU	REMOTE COMPUTER UNIT
EMT	ELECTRIC METALLIC TUBING	RE	RELOCATED EXISTING
ER	EXISTING TO BE RELOCATED	RGS	RIGID GALVANIZED STEEL
FA	FIRE ALARM	RP	RELOCATED POSITION
FCS	FIRE COMMAND STATION	UON	UNLESS OTHERWISE NOTED
FDS	FUSED DISCONNECT SWITCH	W	WIRE
G	GROUND		

TYPE OF DESIGN:

INSTALLATION OF NEW FA DEVICES, ALONG WITH MODIFICATIONS TO THE EXISTING MANUAL AND AUTOMATIC SMOKE DETECTION, NOTIFICATION SYSTEM AND A SPRINKLER ALARM SYSTEM, UTILIZING THE EXISTING FIRE ALARM CONTROL PANEL (FACP), NO CHANGE IN USE OCCUPANCY OR EGRESS.

DRAWINGS LIST

FA1.0	FIRE ALARM NOTES, BUILDING DATA, SYMBOL LIST, ABBREVIATIONS, PLOT PLAN, I/O MATRIX & RISER DIAGRAM
FA2.0	FIRE ALARM PLAN

APPLICABLE CODES

01	2022 CALIFORNIA BUILDING CODE WITH AMENDMENTS & ADDITION FROM IBC 2021
02	2022 CALIFORNIA ENERGY CODE (TITLE 24)
03	2022 CALIFORNIA ELECTRICAL CODE

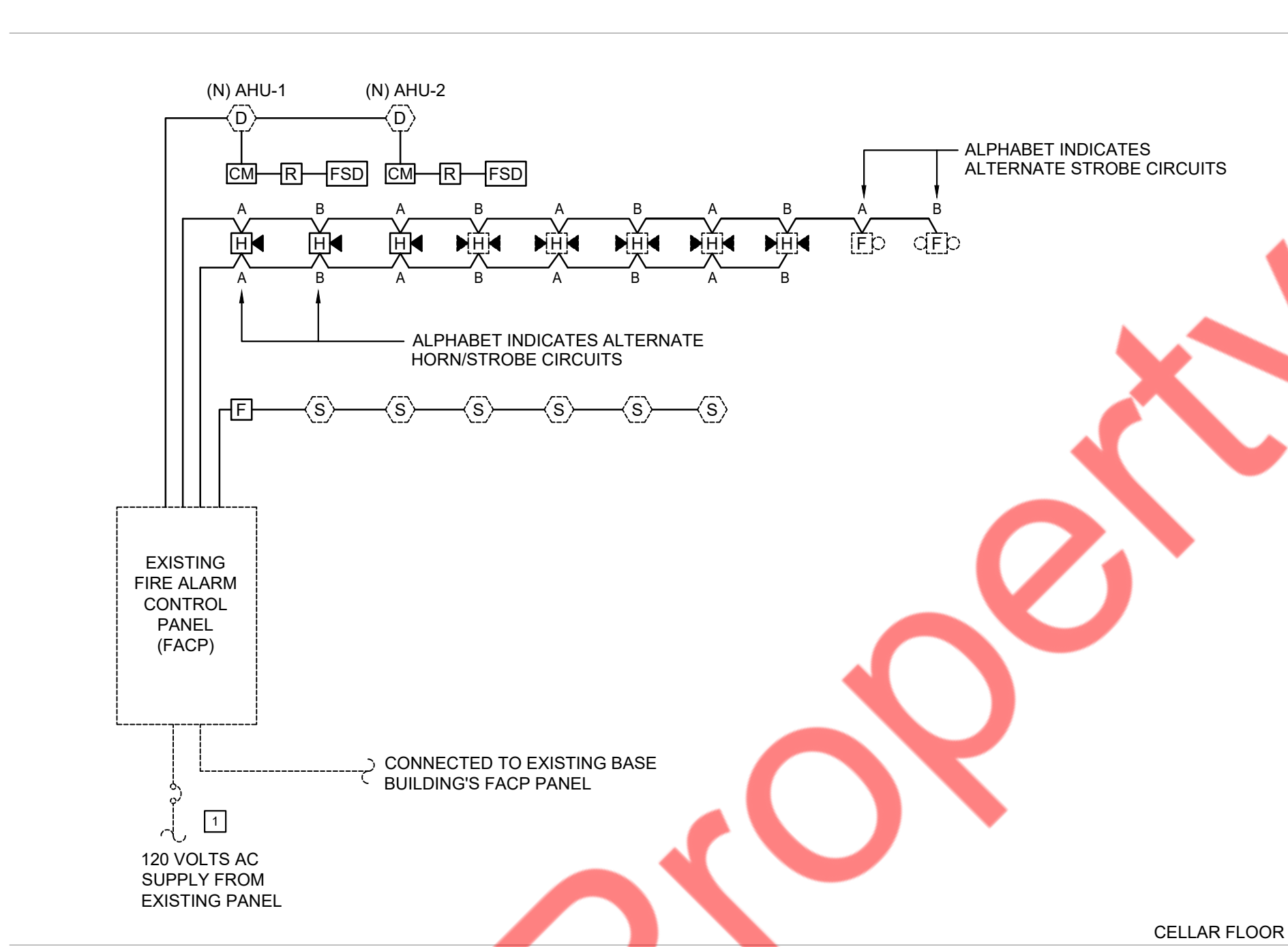
FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	STROBE LIGHT DEVICE, WALL MOUNTED		FIRE ALARM MANUAL PULL STATION, WALL MOUNTED (48" AFF)
	STROBE LIGHT DEVICE, CEILING MOUNTED		TAMPER SWITCH
	WALL MOUNTED HORN/STROBE COMBINATION DEVICE		WATER FLOW SWITCH
	CEILING MOUNTED HORN/STROBE COMBINATION DEVICE		MONITOR MODULE
	CEILING MOUNTED AREA SMOKE DETECTOR		FIRE ALARM RELAY
	FIRE ALARM CONTROL PANEL		CONTROL MODULE
	DUCT MOUNTED SMOKE DETECTOR	—	SOLID THICK LINE INDICATES NEW DEVICE OR WIRING
	FIRE SMOKE DAMPER	----	DOTTED LINE INDICATES EXISTING DEVICE OR WIRING

FIRE ALARM NOTES:

- ALL EQUIPMENT AND WIRING INDICATED ON THESE PLANS IS NEW (U.O.N.).
- PROVIDE WIRING AS REQUIRED BETWEEN ALL DEVICES AND EQUIPMENT AS REQUIRED TO PERFORM FIRE ALARM SYSTEM FUNCTIONS.
- WIRING FOR FIRE ALARM DEVICES IN FINISHED SPACES WITHOUT HUNG CEILING SHALL BE INSTALLED IN EMT CONDUIT.
- ALL STROBES AND HORN/STROBES SHALL BE FLUSH WALL MOUNTED FINISH BY ARCHITECT, APPROVED FOR USE IN CALIFORNIA STATE.
- ALL DUCT SMOKE DETECTORS INSTALLED IN HUNG CEILING AREA AND IN OUT OF SIGHT AREA SHALL HAVE REMOTELY INSTALLED STATUS INDICATOR LAMPS, COORDINATE EXACT LOCATION WITH ARCHITECT AND GENERAL CONTRACTOR.
- FOR WALL MOUNTED F.A. DEVICES PROVIDE 3/4" CONDUIT TERMINATED IN NEAREST ACCESSIBLE CEILING.
- WIRING FOR FIRE ALARM DEVICES IN UNFINISHED SPACES SHALL BE INSTALLED IN RGS CONDUIT UP TO 8'-0" AFF AND THEN IN EMT CONDUIT ABOVE 8'-0" AFF.
- FOR LOCATIONS AND QUANTITIES OF DEVICES REFER TO FIRE ALARM FLOOR PLANS. WHERE THERE ARE DISCREPANCIES BETWEEN THE PLANS AND THE RISER DIAGRAM, THE GREATER QUANTITY SHALL BE USED.
- CONTRACTOR SHALL VERIFY ALL WIRING WITH FIRE ALARM VENDOR AND OBTAIN WIRING DIAGRAMS BEFORE PROCEEDING WITH THE START OF ANY WORK.
- ALL WIRING SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE 2022 (CEC 2022).
- PROVIDE FAN SHUT DOWN CAPABILITY FOR FANS WITH A RATING LARGER THAN 2,000 CFM. SHUT DOWN SHALL BE ACCOMPLISHED BY ONE OR MORE OUTPUT CONTROL POINTS FROM THE FIRE ALARM SYSTEM TO RELAYS FOR SHUTDOWN. PROVIDE CONTROL AND MONITORING FOR ALL RELAYS. PROVIDE POWER, CONTROL RELAYS, MONITORING AND WIRING FOR ALL FIRE/SMOKE DAMPERS.
- DUCT DETECTORS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR ALONG WITH FURNISHING OF THE SAMPLING TUBES. DUCTWORK MODIFICATIONS AND INSTALLATION OF SAMPLING TUBES SHALL BE BY THE MECHANICAL CONTRACTOR. FOR FANS RATED LARGER THAN 2,000 CFM PROVIDE DUCT DETECTORS IN SUPPLY AND RETURN DUCTWORK.
- PROVIDE ALL REQUIRED EXPANSION PANELS, PC BOARDS, POWER SUPPLIES, BATTERIES, FUSE CUTOUPS AND BRANCH CIRCUITS, ETC, FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM.
- STROBES AND HORNS SHALL BE WIRED ON ALTERNATING A-B CIRCUITING IN ALL AREAS, AS INDICATED ON THE RISER DIAGRAM.
- CONTRACTOR SHALL PERFORM ALL BUILDING DEPT. FILINGS AND OBTAIN ALL APPROVALS. CONTRACTOR SHALL OBTAIN ALL REQUIRED SIGNED & SEALED BUILDING DEPT. FORMS AND ALL REQUIRED SETS OF DRAWINGS FROM ENGINEER OF RECORD AND BUILDING DEPT. EXEMPTOR.
- UPON COMPLETION OF INSTALLATION THE SYSTEM SHALL BE 100% PRE-TESTED BY THE FIRE ALARM VENDOR AND THE LICENSED ELECTRICAL CONTRACTOR PRIOR TO FDNY INSPECTION.
- CONTRACTOR SHALL SUBMIT TO THE ENGINEER A MARKUP OF FA DRAWINGS INDICATING "AS-BUILT" CONDITIONS FOR ENGINEER'S REFERENCE. IN PREPARING "AS-BUILT" DRAWINGS FOR FILING, CONTRACTOR SHALL SIGN "AS-BUILT" STATING A FUNCTIONAL TEST HAS BEEN CONDUCTED OF THE FIRE ALARM SYSTEM AND THE SYSTEM OPERATES AS DESIGNED AND IN ACCORDANCE WITH THE INPUT/OUTPUT PROGRAMMING MATRIX IN ACCORDANCE WITH 3 RONY & 105-01.

FIRE ALARM SYSTEM RISER DIAGRAM



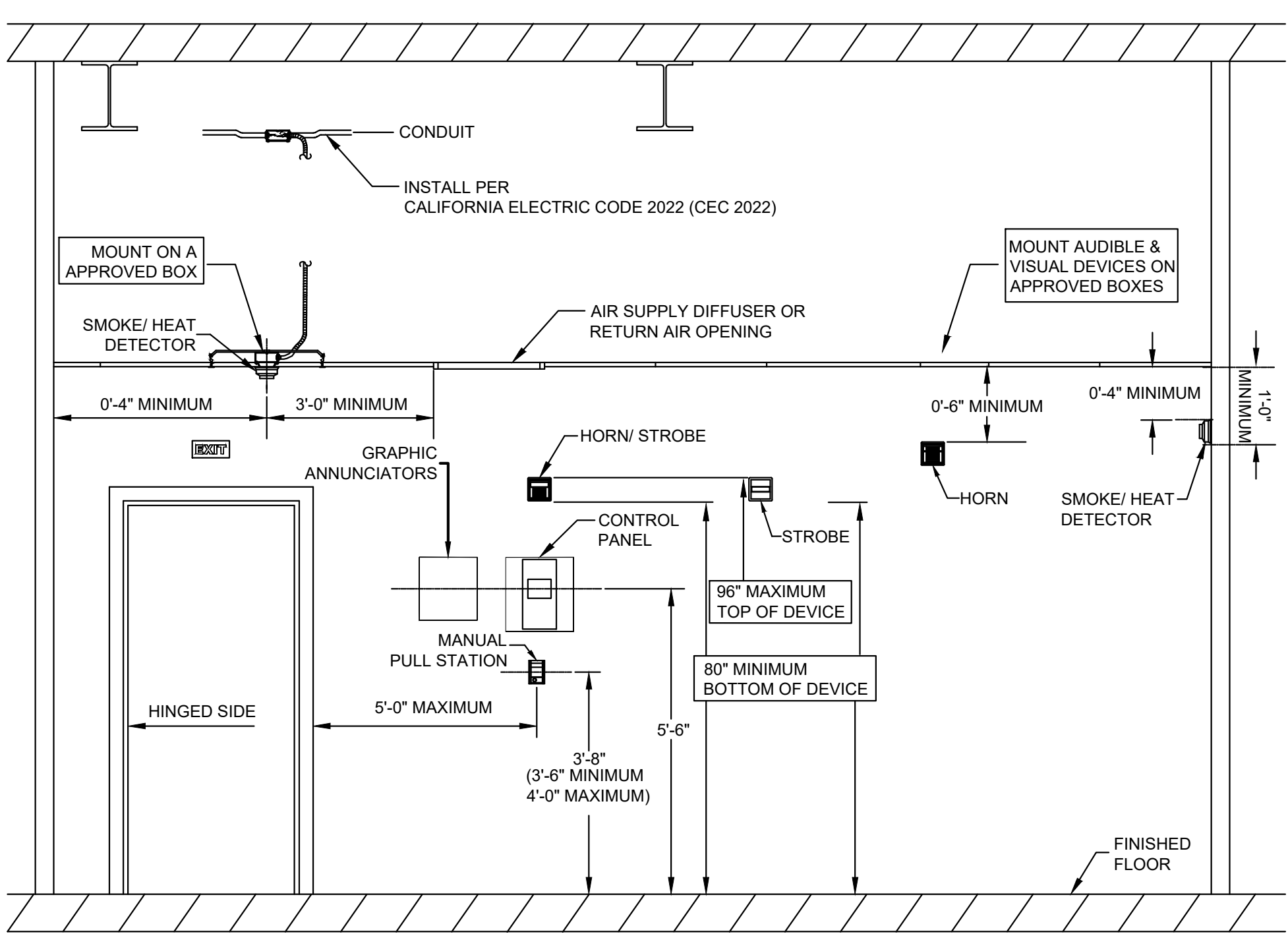
FIRE ALARM RISER NOTES:

- ALL COMPONENTS REQUIRED TO MAKE SYSTEM WORKABLE SHALL BE INCLUDED IN BID PRICE.
- EACH FA RELAY SHALL HAVE MINIMUM OF THREE SETS OF 2 CONTACT 10A RATED @ 120V (TYPICAL).
- ALL DUCT SMOKE DETECTORS INSTALLED IN HUNG CEILING AREA AND IN OUT OF SIGHT AREA SHALL HAVE REMOTELY INSTALLED STATUS INDICATOR LAMPS, COORDINATE EXACT LOCATION WITH ARCHITECT AND GENERAL CONTRACTOR.
- FOR WALL MOUNTED F.A. DEVICES PROVIDE 3/4" CONDUIT TERMINATED IN NEAREST ACCESSIBLE CEILING.
- ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT WHERE REQUIRED BY CALIFORNIA ELECTRICAL CODE 2022 (CEC 2022).
- THIS RISER DIAGRAM IS A SCHEMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES.
- ALL FIRE ALARM CONDUITS SHALL BE MINIMUM 3/4".
- ALL FIRE ALARM CIRCUITS SHALL BE WIRED NFPA STYLE 4W/B (CLASS B) WITH THE EXCEPTION OF THE NETWORK CIRCUIT WHICH SHALL BE NFPA STYLE 7 (CLASS A WITH ISOLATION). DUAL CLASS B NETWORKING IS NOT STYLE 7 AND WILL NOT BE APPROVED.

KEYED WORK NOTES:

- THE CIRCUIT BREAKER FEEDING THE FACP SHALL BE IDENTIFIED RED WITH CIRCUIT BREAKER LOCK INSTALLED.

FIRE ALARM DEVICES TYPICAL MOUNTING HEIGHT:



CONSULTANTS (ENGINEER):

**NY ENGINEERS**

NEARBY ENGINEERS  
382 NE 191ST STREET SUITE 49674,  
MIAMI, FL 33179  
PH-914.257.3455  
WWW.NY-ENGINEERS.COM

PROFESSIONAL SEAL:

CONTRACTOR'S NOTES:

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DATE	ISSUE
02/25/25	CD SET - CLIENT/LL REVIEW
03/24/25	PERMIT SET

DATE REVISION

**AIX**  
ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025  
PROJECT NUMBER: 12402-25  
AREA: 4,440 SQ. FT.  
DRAWN BY: NYE REVIEWED BY: NYE

TITLE:

FIRE ALARM NOTES, BUILDING DATA, SYMBOL LIST, ABBREVIATIONS, PLOT PLAN, I/O MATRIX & RISER DIAGRAM

SHEET NUMBER:

**FA1.0**



LEGEND:  
----- NEW (N)  
----- EXISTING (E)

CONSULTANTS (ENGINEER):  
**NY ENGINEERS**

NEARBY ENGINEERS  
382 NE 191ST STREET SUITE 49674,  
MIAMI, FL 33179  
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03/24/25	PERMIT SET

DATE	REVISION
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**A|X**  
ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025  
PROJECT NUMBER: 12402-25  
AREA: 4,440 SQ. FT.  
DRAWN BY: NYE REVIEWED BY: NYE

TITLE:

FIRE ALARM  
PLAN

SHEET NUMBER:

FA2.0

1 FIRE ALARM PLAN

## GENERAL NOTES

- FIRE ALARM CONTRACTOR SHALL COORDINATE ALL THE FIRE ALARM DEVICE LOCATION WITH THE REFLECTED CEILING PLAN AND CONFIRM IN THE FIELD WITH ARCHITECT/OWNER.
- ALL DEVICES SHALL BE COMPATIBLE WITH AND MAINTAIN THE UL LISTING OF EXISTING FA SYSTEM.
- G.C. SHALL FIELD VERIFY EXACT REQUIREMENTS FOR FIRE ALARM SYSTEM PRIOR TO BID. SUPPLY AND INSTALL ALL NECESSARY EQUIPMENT AS REQUIRED.
- REFER TO DRAWING: FA1.0 FOR FIRE ALARM NOTES, SYMBOL LIST, ABBREVIATIONS.
- FINAL CONDUIT/CABLE ROUTING SHALL BE DETERMINED IN-FIELD, AND PRIOR TO THE COMMENCEMENT OF WORK, COORDINATED WITH OTHER TRADE CONTRACTORS AND THE OWNER.
- CONFIRM REQUIRED DEVICES AND SEQUENCE OF OPERATION WITH FIRE ALARM CONTRACTOR.

## FIRE ALARM SYMBOLS

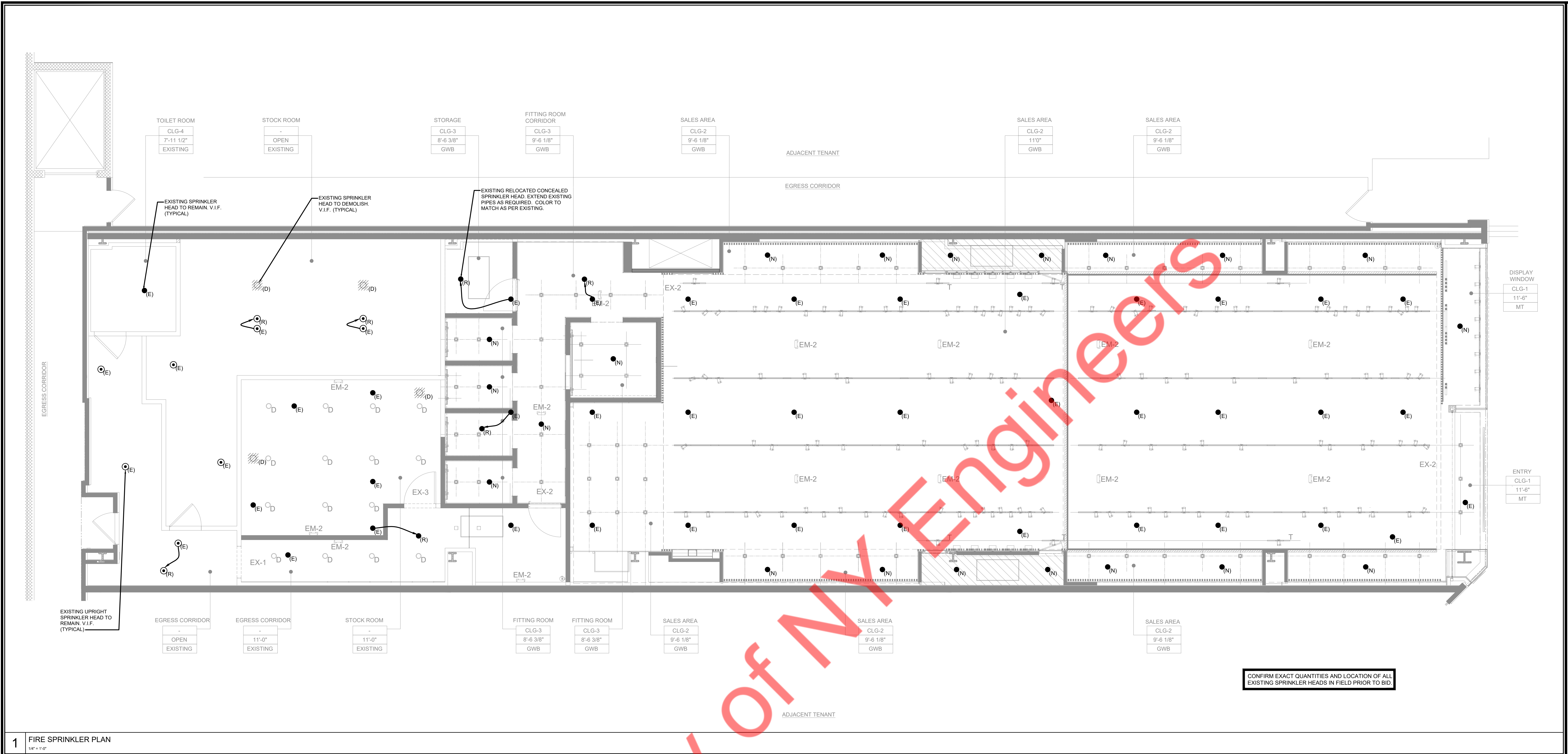
LEGEND	DESCRIPTION
	HORN/SSTROBE LIGHT DEVICE, CEILING MOUNTED
	HORN/SSTROBE LIGHT DEVICE, WALL MOUNTED
	WALL MOUNTED STROBE
	MANUAL PULL STATION
	SMOKE DETECTOR
	CEILING MOUNTED STROBE
	DUCT SMOKE DETECTOR
	MONITORING MODULE
	CONTROL MODULE
	TEMPER SWITCH
	WATER FLOW SWITCH
	RELAY

**NOTE:**  
1. NOT ALL SYMBOLS MAY APPEAR ON DRAWINGS.  
2. ALL OUTLETS TO BE WHITE.  
**ABBREVIATION:**  
(E) - EXISTING; (R) - EXISTING RELOCATED

## KEY NOTES

- EXISTING FIRE ALARM PANEL TO REMAIN. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION AND OPERABLE CONDITION IN FIELD WITH ARCHITECT/OWNER. PROVIDE NEW IF FOUND INOPERABLE. BASE BID ACCORDINGLY.
- FIRE ALARM CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION & WORKABLE CONDITION OF FA DEVICES. REUSE EXISTING FA DEVICES, RELOCATE TO NEW LOCATION IF REQUIRED, OTHERWISE PROVIDE NEW. BASE BID ACCORDINGLY.
- ALL NEW DEVICES SHALL BE COMPATIBLE WITH AND MAINTAIN THE UL LISTING OF THE EXISTING FA SYSTEM. CONNECT ALL NEW FIRE ALARM SYSTEM DEVICES TO EXISTING FIRE ALARM CONTROL PANEL AS REQUIRED. BASE BID ACCORDINGLY.
- ALL NEW DEVICES SHALL BE CONNECTED TO THE EXISTING FIRE ALARM CONTROL PANEL (FACP). CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND OPERABLE CONDITION IN FIELD IN COORDINATION WITH ARCHITECT/OWNER. BASE BID ACCORDINGLY.
- FIRE ALARM CONTRACTOR SHALL FIELD VERIFY IF FIRE ALARM PULL IS PROVIDED FOR THE PROJECT SPACE. IF NOT, PROVIDE NEW AS SHOWN. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. BASE BID ACCORDINGLY.
- FIRE ALARM CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EXISTING TAMPER AND WATER FLOW SWITCHES IN FIELD. COORDINATE THE EXACT QUANTITY OF TAMPER AND WATER FLOW SWITCHES WITH SPRINKLER CONTRACTOR IN FIELD. BASE BID ACCORDINGLY.
- FIRE ALARM CONTRACTOR TO FIELD VERIFY THE OPERABLE CONDITION OF EXISTING DUCT SMOKE DETECTORS. PROVIDE NEW IF FOUND INOPERABLE. ALSO, COORDINATE EXACT LOCATION & ADDITIONAL INFORMATION WITH MECHANICAL CONTRACTOR IN FIELD.





1 FIRE SPRINKLER PLAN  
1/8" = 1'-0"

SPRINKLER GENERAL NOTES

I. DESIGN/BUILD REQUIREMENTS

1. THE SPRINKLER SUBCONTRACTOR, A LICENSED SUBCONTRACTOR OF THE TENANT'S GENERAL CONTRACTOR (USE ONLY DESIGNATED SPRINKLER SUBCONTRACTOR IF REQUIRED BY LANDLORD) IS REQUIRED TO MODIFY AN EXISTING SYSTEM AS PER THE LATEST N.F.P.A.-13, 2022 AND THE BUILDING LANDLORD'S INSURANCE UNDERWRITERS REQUIREMENTS AND OTHER RELEVANT AUTHORITIES' REQUIREMENTS. SPRINKLER CONTRACTOR TO VERIFY WITH BUILDING LANDLORD AS TO THE BASIS FOR DESIGN - OCCUPANCY TYPE AND DENSITY, NORMAL OR HYDRAULIC.
2. THE SYSTEM SHALL BE DESIGNED TO MODIFY THE SPRINKLER HEADS WITHIN THE DEMISED PREMISES.
3. THE SPRINKLER HEAD TO BE USED IN THE ENTIRE SPACE WHERE A CEILING OCCURS ARE TO BE WHITE PLATED RECESSED TYPE, UNLESS THERE IS A SPECIAL TYPE HEAD REQUIRED BY THE LANDLORD. IF THIS IS THE CASE, THE SPRINKLER HEAD TO BE USED IS AS PER LANDLORD'S SPECIFICATION ONLY.
4. THE SPRINKLER CONTRACTOR SHALL INCLUDE IN HIS SUBMISSIONS FOR APPROVAL BY THE BUILDING LANDLORD AND REVIEW BY THE TENANT'S REPRESENTATIVE, A 1/4" SCALE SPRINKLER LAYOUT. (UTILIZE TENANT'S REFLECTED CEILING PLAN.)
5. THE SPRINKLER SUBCONTRACTOR SHALL OBTAIN ALL APPROVALS FROM APPLICABLE AUTHORITIES FOR THE SPRINKLER SYSTEM.
6. OWNER, TENANT, CLIENT AND LESSEE ARE ALL THE SAME INDIVIDUAL OR COMPANY. THE LANDLORD AND LESSOR IS THE BUILDING LANDLORD AND/OR THE OWNER OR REPRESENTATIVE OF THE OWNER OF THE SHOPPING CENTER. LANDLORD'S ARCHITECT AND CONSTRUCTION REPRESENTATIVE MAY OR MAY NOT BE ONE AND THE SAME. TENANT'S ARCHITECT AND CONSTRUCTION REPRESENTATIVE MAY OR MAY NOT BE ONE AND THE SAME.
7. SINCE SPACE TO BE OCCUPIED WAS WHOLLY OR PARTIALLY ANOTHER SHOPPING CENTER OR BUILDING (AS APPLICABLE) TENANT, THE SPRINKLER SUBCONTRACTOR MUST CHECK SITE CONDITIONS TO ANALYZE IF MAINS, BRANCH LINES, ETC., MAY BE EXISTING LOWER THAN OR IN THE WAY OF THE NEW CEILING HEIGHT OR OVERHEAD GRILLE ASSEMBLY. IF THIS IS THE CASE, THEN COSTS FOR REMOVING, RELOCATING AND NEW, SHOULD BE INCLUDED IN THE SPRINKLER CONTRACTOR'S BID.

- 8A. THIS IS A NEW SYSTEM TO BE INSTALLED AS TO LAYOUT AND CAPACITY BASED ON TENANT'S FLOOR PLANS, CEILING PLANS, HEIGHTS AND SECTIONS AND THE LATEST N.F.P.A.-13 STANDARDS GOVERNING THIS USE. SPRINKLER SUBCONTRACTOR TO CHECK WITH LOCAL FIRE AUTHORITIES REGARDING ANY SPECIAL SPRINKLER REQUIREMENTS FOR SIDE WALL CASES (AS APPLICABLE).
- 8B. THIS IS AN EXISTING SYSTEM TO BE MODIFIED AS TO LAYOUT AND CAPACITY BASED ON TENANT'S FLOOR PLANS, CEILING PLANS, HEIGHTS AND SECTIONS AND THE LATEST N.F.P.A.-13 STANDARDS GOVERNING THIS USE. SPRINKLER SUBCONTRACTOR TO CHECK WITH LOCAL FIRE AUTHORITIES REGARDING ANY SPECIAL SPRINKLER REQUIREMENTS FOR SIDE WALL CASES (AS APPLICABLE).
- 9 ALL SPRINKLER HEADS IN ACOUSTICAL SALES AREA CEILINGS TO BE IN CENTER OF TILES.
- II. GENERAL REQUIREMENTS
1. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE A COMPLETE INSTALLATION FOR FINISHED WORK, TESTED AND READY FOR OPERATION. THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST AND MOST THOROUGH MANNER UNDER THE DIRECTION OF AND TO THE SATISFACTION OF THE BUILDING OWNER AND TENANT'S REPRESENTATIVE.
2. ALL MATERIALS REQUIRED FOR THIS WORK SHALL BE NEW, UNUSED, BEST OF ITS RESPECTIVE KINDS, AND FREE FROM DEFECTS, AND OF FIRST CLASS QUALITY. BASIS OF QUALITY SHALL BE BASED ON THE LATEST STANDARDS OF THE N.F.P.A.-13, 2022 AND OTHER ACCEPTABLE STANDARDS.
3. THE SPRINKLER SUBCONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK UNTIL ITS COMPLETION AND FINAL ACCEPTANCE, AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE BUILDING OWNER OR TENANT.
4. THE SPRINKLER SUBCONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED AND MATERIALS INSTALLED BY HIM TO BE FREE FROM INHERENT DEFECTS, AND SHALL KEEP IN REPAIR AND REPLACE ANY DEFECTIVE MATERIALS OF WORKMANSHIP, FREE OF COST TO THE TENANT OR LESSEE (OWNER) FOR A PERIOD OF ONE (1) YEAR AFTER THE FINAL COMPLETION OF ALL THE WORK.

5. ALL WORK SHALL BE DONE ACCORDING TO THE REQUIREMENTS OF ALL APPLICABLE CODES AND BUILDING LANDLORD / TENANT LEASE CRITERIA (IF APPLICABLE) AND SHALL RECEIVE THE APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION. PREPARE ALL REQUIRED DOCUMENTS, DRAWINGS AND PERFORM ALL REQUIRED TESTS AND PAY ALL REQUIRED CHARGES TO OBTAIN THESE APPROVALS.
6. THIS CONTRACTOR MUST BE HELD TO HAVE EXAMINED THE SITE FOR HIS WORK AND REVIEWED THE DRAWINGS WITH THE TENANT'S GENERAL CONTRACTOR BEFORE HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
7. THIS CONTRACTOR MUST PROVIDE TENANT, BUILDING LANDLORD, AND TENANT'S CONSTRUCTION REPRESENTATIVES WITH COPIES OF REQUIRED INSURANCE AND COPIES TO BE FURNISHED TO THE OWNER BEFORE COMMENCING WORK.
8. SUBMIT THREE (3) SETS OF SHOP DRAWINGS IDENTIFIED WITH PROJECT NAME TO THE BUILDING OWNER, OWNER AND OWNER'S CONSTRUCTION REPRESENTATIVE FOR HIS FILE.
- III. SCOPE OF WORK
- FURNISH ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND CONTRACTORS FOR A COMPLETE, SAFE INSTALLATION OF SPRINKLER WORK IN FULL CONFORMITY WITH REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION AS INDICATED ON DRAWINGS AND/OR HEREIN SPECIFIED.
- IV. GENERAL ITEMS
1. IF VALVES ARE NOW UTILIZED IN SYSTEM BUT NOT ALLOWED BY LAW, THEY ARE TO BE REMOVED AS REQUIRED.
2. SPRINKLER SUBCONTRACTOR SHOULD VERIFY WITH LANDLORD ANY SPECIAL REQUIREMENTS, HOOKUPS, ALARM SYSTEMS IN PIPING, ETC., AND INCLUDE COST IN BID - ITEMIZE AND SPECIFY INCLUSIONS IN BID.
3. DRAIN DOWNS AS PER GENERAL CONTRACTOR'S REQUIREMENTS. PIPING SHALL NOT BE SUPPORTED FROM DUCTWORK, ELECTRICAL, MECHANICAL, PLUMBING, OR OTHER SPRINKLER PIPING. ONLY HANG FROM TOP FLANGES OF BEAMS AND TOP CHORDS AT PANEL POINTS OF JOISTS AND TRUSSES.

4. TEST: TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS BASED ON CODE OR BUILDING OWNER'S REQUIREMENTS AND IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND/OR AS SPECIFIED. TEST SHALL BE PERFORMED IN THE PRESENCE OF BUILDING OWNER (IF REQUIRED) AND OWNER'S REPRESENTATIVE AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED. AS PER CODE REQUIREMENTS, TEST PIPING BY FILLING WITH AIR UNDER PRESSURE FIRST.
5. STERILIZATION OF SPRINKLER SYSTEM : IF REQUIRED BY CODE OR LANDLORD'S CRITERIA, BEFORE SPRINKLER SYSTEM IS PLACED INTO SERVICE, ALL LINES SHALL BE CHLORINATED TO THE SATISFACTION OF REPRESENTATION (AS APPLICABLE) IN ACCORDANCE WITH N.F.P.A. STANDARDS.
6. NOTCHING AND BORING OF STRUCTURAL STEEL MEMBERS IS NOT PERMITTED, WHEN HANGING FROM STRUCTURAL STEEL ONLY HANG FROM TOP FLANGE OF BEAMS AND TOP CHORDS ONLY AT PANEL POINTS OF JOISTS / TRUSSES.
7. SPRINKLER CONTRACTOR TO FILE FOR PERMITS AND SUBMIT PLANS TO BUILDING DEPARTMENT FOR APPROVAL AND SIGN-OFF. ALL BUILDING DEPARTMENT WORK FOR THIS CONTRACTORS SCOPE, TO BE FILED BY THIS CONTRACTOR.
- VI. BUILDING LANDLORD'S CRITERIA
1. THE SPRINKLER CONTRACTOR IS TO FAMILIARIZE HIMSELF WITH BUILDING LANDLORD'S CRITERIA FOR THIS LOCATION (IF APPLICABLE) AND INCLUDE ANY WORK REQUIRED OF THIS CRITERIA, WHICH IS NOT SPECIFICALLY NOTED IN THESE DRAWINGS AND SPECIFICATIONS.
2. THE SPRINKLERS MUST BE A FULL COVERAGE SYSTEM WHICH COMPLIES WITH ALL THE REQUIREMENTS OF N.F.P.A.-13, 2022.
3. SPECIAL ATTENTION MUST BE PAID TO SPRINKLER OBSTRUCTIONS INCLUDING STOCK FIXTURES AND VALANCES.
4. THE 200 PSI, TWO-HOUR HYDROSTATIC TEST OF THE SYSTEM IS REQUIRED TO BE WITNESSED BY A REPRESENTATIVE OF THE BUREAU OF FIRE PREVENTION.
5. A COMPLETED, CERTIFIED COPY OF THE "CONTRACTORS MATERIAL AND TEST CERTIFICATE" IS REQUIRED TO BE TURNED INTO THE BUREAU OF FIRE PREVENTION.

SPRINKLER NOTES

1. SPRINKLER HEAD LOCATIONS INDICATE ALIGNMENTS AND GENERAL QUANTITY. REFER TO SPRINKLER DRAWINGS FOR EXACT LOCATIONS AND SPACING.
2. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO SUBMIT PLANS FOR MODIFICATION OF THE FIRE SPRINKLER SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW TENANT SPACE. G.C. MUST USE LANDLORD'S SPRINKLER CONTRACTOR FOR ALTERATIONS AS REQUIRED. SUBMIT SHOP DRAWINGS TO THE LANDLORD AND ARCHITECT FOR REVIEW PRIOR TO PERMITTING & INSTALLATION.

THE SPRINKLER SUBCONTRACTOR IS REQUIRED TO VISIT THE SITE DURING BIDDING AND VERIFY LOCATION OF WHERE SPRINKLER PIPING/EQUIPMENT IS INDICATED TO BE PLACED, THEIR ROUTE(S) AND POSSIBLE INTERSECTIONS(S) WITH OTHER EQUIPMENT/WORK/STRUCTURE (I.E. STEEL BEAMS, ETC.) TO BE INSTALLED AND/OR "EXISTING TO REMAIN". THIS SUBCONTRACTOR IS TO VERIFY HEIGHTS TO BE INSTALLED\* TO MAINTAIN DESIGNED CEILING HEIGHTS AND HEAD ROOM. ANY DISCREPANCIES BETWEEN DESIGNED AND ACTUAL TO BE TOLD TO THE GENERAL CONTRACTOR AND INDICATED ON THE BID FORM.

SPRINKLER LEGENDS AND ABBREVIATIONS

● (N)	NEW CONCEALED PENDENT SPRINKLER HEAD
⊙ (E)	EXISTING UPRIGHT SPRINKLER HEAD TO REMAIN
● (R)	EXISTING TO BE RELOCATED
● (E)	EXISTING TO REMAIN
⊙ (D)	EXISTING TO BE DEMOLISHED

SPRINKLER HEAD COUNT

NEW CONCEALED SPRINKLER	20
EXISTING UPRIGHT SPRINKLER	4
DEMOLISHED UPRIGHT SPRINKLER	2
RELOCATED UPRIGHT SPRINKLER	3
EXISTING CONCEALED SPRINKLER	34
RELOCATED CONCEALED SPRINKLER	4
DEMOLISHED CONCEALED SPRINKLER	2

CONSULTANTS (ENGINEER):  
**NY ENGINEERS**  
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PROFESSIONAL SEAL:

CONTRACTOR'S NOTES:

WRITTEN DIMENSIONS HOLD PREFERENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE CONTRACTORS MUST VISIT JOB SITE TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE SUBMITTING BIDS. REPORT ANY DISCREPANCIES OF ANY CONDITIONS WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF THE CONTRACT TO THE TENANT'S REPRESENTATIVE. REPORT DISCREPANCIES DURING BIDDING PROCESS AND BEFORE START OF CONSTRUCTION. CHANGE ORDERS NEED TO BE APPROVED BY ARMANI EXCHANGE CONSTRUCTION MANAGER FOR ISSUES ARISING FROM THE FIELD CONDITIONS OR CONFLICTS BETWEEN THE PLANS AND THE EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.

DATE	ISSUE
02/25/25	CD SET - CLIENT/LL REVIEW
03/24/25	PERMIT SET

DATE	REVISION
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**A | X**  
ARMANI EXCHANGE

LOCATION:

PROJECT INFORMATION:

DATE: 01/15/2025  
PROJECT NUMBER: 12402-25  
AREA: 4,440 SQ. FT.  
DRAWN BY: NYE REVIEWED BY: NYE

TITLE:

**FIRE SPRINKLER PLAN  
& NOTES**

SHEET NUMBER:

**SP1.0**