



Architecture + Planning
17911 Von Karman Ave.
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Irvine, CA 92614
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KTGY Project No: 171180

Project Contact: Dorina Szalma
Email: dszalma@ktgy.com

Principal: Simon Perowitz
Project Designer: STAN BRADEN

Developer

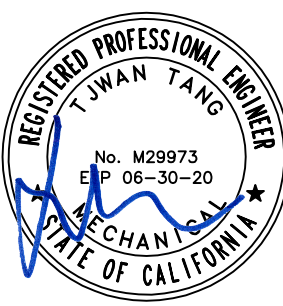


LA COSTA GLEN
1970 LEVANTE STREET

CARLSBAD, CA 92009
PHONE NO. 800-852-4384
FAX NO. ----

LAKESIDE COMMONS DINING

1960 SILVERLEAF CIRCLE
CARLSBAD, CA 92009



Sheet Issue & Revision Log

INITIAL SUBMITTAL		
A	4-17-2020	2nd PC Submittal

tksc
COLLABORATIVE
15231 Laguna Canyon Road, Suite 100
Irvine, California 92618
949.751.5800 www.tksc.com
Project Leader - Daryl Garnier
Mechanical Lead - Elias Mendez
tksc Job #: 2018-0448

EQUIPMENT SCHEDULES & TITLE 24 COMPLIANCE FORMS

M-0.2

TAG	#	MANUFACTURER	MODEL NUMBER	SERVICE	SUPPLY FAN					EVAPORATIVE COOLING COIL					HEATING					DETAIL REFERENCE	CONTROL DIAGRAM	OPERATING WEIGHT (LBS)	REMARKS								
					QTY	DRIVE TYPE	AIR FLOW (CFM)	EXTERNAL STATIC PRESSURE (IN WG)	TOTAL STATIC PRESSURE (IN WG)	FAN SPEED (RPM)	MOTOR (BHP)	MOTOR (HP)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	COOLING MEDIA	REQUIRED FLOW (GPM)	TOTAL CAPACITY (BTUHR)	PRESSURE (PSI)					OUTPUT CAPACITY (BTUHR)	EAT DB (°F)	LAT DB (°F)	MCA (A)	MOCP (A)	VOLTAGE (V)	PHASE	HERTZ (HZ)
MJA	1	GREENHECK	IG-108410	KITCHEN HOOD	1	BELT	800	0.5	0.6	1,049	0.24	1.0	83	67	68	CELdek	0.2	75,000	12	80,000	34.7	69.4	5.2	15	208	3	60	6/M-5.1	4/M-4.1	1,200	EVAPORATIVE COOLING WITH AUTO DRAIN AND FLUSH CONTROLS, 2-STAGE INDIRECT GAS HEATING, DOUBLE WALL INSULATION, PERMATECTOR COATING, AIRFLOW PROOF CONTACT FOR KITCHEN EXHAUST FAN INTERLOCK AND REMOTE CONTROL PANEL, FURNISH WITH FACTORY ROOF CURB.

TAG	#	MANUFACTURER	MODEL NUMBER	SERVICE	TYPE	DRIVE TYPE	AIR FLOW (CFM)	EXTERNAL STATIC PRESSURE (IN WG)	FAN SPEED (RPM)	MOTOR ENCLOSURE	MOTOR (BHP)	ELECTRICAL CONNECTION			DETAIL REFERENCE	CONTROL DIAGRAM	OPERATING WEIGHT (LBS)	REMARKS	
												MOTOR (HP)	VOLTAGE (V)	PHASE					
KEF	1	GREENHECK	CUBE-141HP-5	KITCHEN HOOD	UPBLAST	BELT	1,000	1.0	1,654	ODP	0.39	0.5	208	3	60	8/M-5.1	4/M-4.1	160	SHALL BE UL-762 FOR GREASE EXHAUST, WITH PITCHED 12 INCH FACTORY ROOF CURB, VENTED CURB EXTENDER, HINGED CURB BASE AND GREASE TRAP.

STATE OF CALIFORNIA
Mechanical Systems
MCH-1004 (Issue 12/0)
CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 91406.4 or 91406.402 for alterations.
Project Name: LAKESIDE COMMONS DINING
Report Page: Page 1 of 7
Project Address: 1960 SILVERLEAF CIRCLE
Date Prepared: 2020-03-20

A. GENERAL INFORMATION
01 Project Location (M) CARLSBAD 04 Total Conditioned Floor Area
02 Climate Zone 7 05 Total Unconditioned Floor Area
03 Occupancy Types Within Project: 06 # of Storerooms (Habitables Above Grade)
Office (O) Retail (R) Non-refrigerated Warehouse (S)
Hotel/Motel (Guest Rooms) (R-1) School (S) Healthcare Facility (H)
High-Rise Residential (R-2/R-3) Recreational Class Bldg (E) Other (Write in):
Other (Write in):
*OCCUPANCIES: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renovable/building_climate_zones.html

B. PROJECT SCOPE
Table Instructions: Indicate any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 91406.4 or 91406.402 for alterations.
This project consists of check all that apply:
01 Air System(s) 02 Dry System Component(s)
Heating Air System Water Economizer Air Economizer
Cooling Air System Pumps Electric Resistance Heat
Mechanical Controls Hydronic System Piping Fan Systems
Mechanical Controls Cooling Towers Ductwork
Chillers Ventilation
Boilers Zonal Systems/Terminal Boxes

C. COMPLIANCE RESULTS
Table Instructions: If any cell in this table says "COMPLIES WITH EXCEPTIONAL CONDITIONS" refer to Table D, for evidence.
System 01 02 03 04 05 06 07 08 09
System Compliance
System Cost \$130.2 AND \$146.460 AND \$146.460 AND \$130.2 AND \$130.2 AND \$146.460 AND \$146.460 AND \$110.23662
Compliance Results
(See Table F) (See Table G) (See Table H) (See Table I) (See Table J) (See Table K) (See Table L) (See Table M) (See Table N)
AND AND AND AND AND AND AND AND AND
Mandatory Measures Compliance (See Table Q for Details)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> January 2020

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D. EXCEPTIONAL CONDITIONS
This table is available with amendable comments because of selections made or data entered in tables throughout the form.
No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS
This table provides remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
This Section Does Not Apply

G. PUMPS
This Section Does Not Apply

H. FAN SYSTEMS & AIR ECONOMIZERS
This Section Does Not Apply

I. SYSTEM CONTROLS
This Section Does Not Apply

J. VENTILATION AND INDOOR AIR QUALITY
This Section Does Not Apply

K. TERMINAL BOX CONTROLS
This Section Does Not Apply

L. DISTRIBUTION (DUCTWORK AND PIPING)
Table Instructions: Complete the following tables to show compliance with mandatory pipe insulation requirements found in 91406.3 and prescriptive requirements found in 91406.403 for duct leakage testing.
Duct Leakage Testing
The answers to the questions below apply to the following duct systems:
Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> January 2020

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M. COOLING TOWERS
This Section Does Not Apply

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/required_installation_documents/NIC/C/

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/required_installation_documents/NIC/C/

P. MANDATORY MEASURES DOCUMENTATION LOCATION
Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A" or any other code that an A/E/C firm will result in non-compliance in Table C.

01	02	03	04
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Book:	Yes	No	M-0.2
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> January 2020

TITLE-24 MANDATORY MEASURES

- EQUIPMENT AND SYSTEMS EFFICIENCY
- ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE.
 - PIPING AND DUCTING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH THE SECTIONS 120.3, 120.4, 120.7 OF TITLE 24 ENERGY EFFICIENCY STANDARDS, CHAPTER 6 OF THE 2019 CMC, AND ALL CODES HAVING JURISDICTION.
 - ALL HVAC SYSTEMS SHALL MEET THE EFFICIENCY AND CONTROL REQUIREMENTS PER SECTION 110.2 AND 120.2 E.E.S.
 - ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 110.1-110.3, 110.5, 120.1-120.4 TITLE-24 ENERGY STANDARDS.
 - EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOW OPERATION OF THE SYSTEM DURING OFF-HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS, INCORPORATE AN AUTOMATIC HOLIDAY SHUT-OFF FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION, AND HAS PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED.
 - EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK HEATING AND COOLING THERMOSTAT SETPOINT.
 - EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE. WHERE USED TO CONTROL HEATING, THE CONTROL SHALL BE ADJUSTABLE DOWN TO 55°F OR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85°F OR HIGHER. WHERE USED TO CONTROL BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEAD BAND OR AT LEAST 5°F WITHIN WHICH THE SUPPLY OR HEATING AND COOLING IS SHUT OFF TO A MINIMUM.
 - THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN °F.
 - THERMOSTATS SHALL HAVE ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
 - GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.
 - ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.
 - ALL BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH AND PERFORMED BY A COMPANY CERTIFIED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1988), OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1986).
 - OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR.
 - THE AIR CONDITIONING SYSTEM SHALL BE ENERGIZED 1 HOUR IMMEDIATELY PRIOR TO OCCUPANCY TO PROVIDE THE MINIMUM REQUIRED VENTILATION RATE.

CALGREEN MANDATORY MEASURE NOTES

- PROVIDE TESTING AND ADJUSTING OF SYSTEMS IN ACCORDANCE WITH CALGREEN SECTION 5.410.4.
- THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDITION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2-1999. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION. (CALGREEN SECTION 5.504.1)
- AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM. (CALGREEN SECTION 4.501 OR 5.504.3)
- ALL PAINTS, ADHESIVES, SEALANTS AND CAULKS SHALL MEET THE REQUIREMENTS OF CALGREEN SECTION 4.504.2 OR 5.504.4.
- IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF MERV-13 SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATIONS AND MAINTENANCE MANUAL. (CALGREEN SECTION 5.504.5.3)
- EXCEPTION: EXISTING MECHANICAL EQUIPMENT.

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Report Page: Page 4 of 7
Project Address: 1960 SILVERLEAF CIRCLE
Date Prepared: 2020-03-20

Q. MANDATORY MEASURES COMPLIANCE
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01	02	03	04	05	06	07	08	09
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Book:	Yes	No	N/A	Yes	No	N/A	Yes	No
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Date Prepared: 2020-03-20

R. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be provided by a HERS Provider registry, but they can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/required_installation_documents/NIC/C/

YES	NO	Form/Title	Field Inspector	
Pass	Fail		Pass	Fail
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRV-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRV-MCH-24 Enclosure Air Leakage Walksheet NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRV-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRV-MCH-01 Local Mechanical Features NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>

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Date Prepared: 2020-03-20

S. AUTHORITY DECLARATION STATEMENT
I, _____, certify that the Certificate of Compliance is accurate and complete.
Documentation Author Name: TKSC
Documentation Author Signature: _____
Company: TKSC
Signature Date: 3/17/2020
Address: 15231 LAGUNA CANYON RD, STE 100
City/State/Zip: IRVINE, CA 92618
Phone: 949-751-5800

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I, _____, certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 5 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features 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.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documentation, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit 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 holder provides to the building owner at occupancy.
Responsible Designer Name: TKSC
Responsible Designer Signature: _____
Company: TKSC
Date Signed: 3/17/2020
Address: 15231 LAGUNA CANYON RD, STE 100
City/State/Zip: IRVINE, CA 92618
Phone: 949-751-5800

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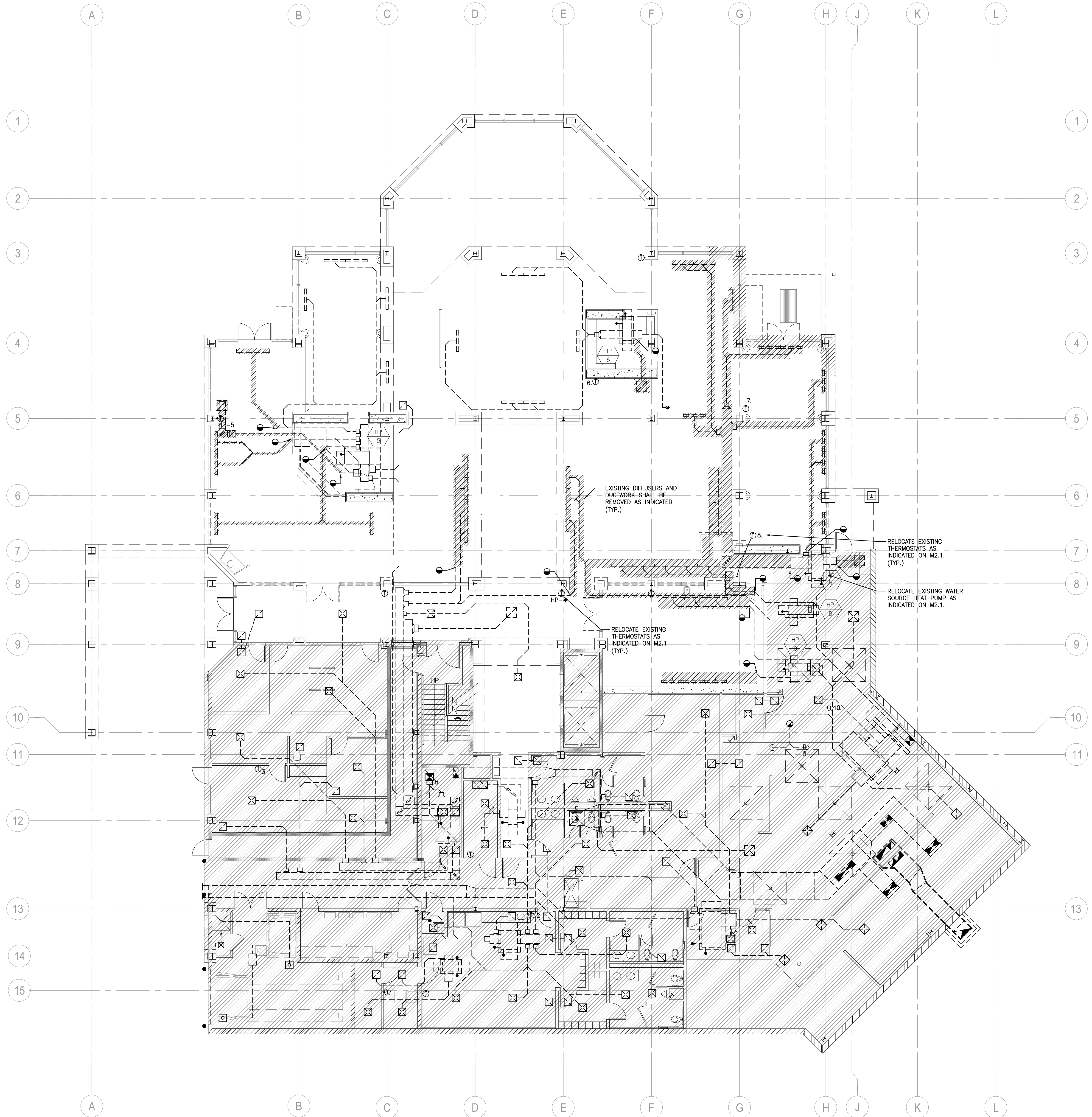
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DOCUMENTATION AUTHORITY'S DECLARATION STATEMENT
I, _____, certify that the Certificate of Compliance is accurate and complete.
Documentation Author Name: TKSC
Documentation Author Signature: _____
Company: TKSC
Signature Date: 3/17/2020
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KITCHEN AIR BALANCE SCHEDULE						
UNIT NO.	SERVICE	O.S.A. CFM	E.A. CFM	TRANSFER AIR CFM	PRESSURE	REMARKS
KEF-1	KITCHEN HOOD		-1,000		-1,000	PIZZA OVEN BELOW THE HOOD IS FOR LIGHT TO MEDIUM PRODUCTION
MJA-1	KITCHEN HOOD	800		200	1,000	INTERLOCK W/ KEF-1. TRANSFER AIR (CFM) FROM DINING ROOM
TOTAL		800	-1,000	200	0	



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 1970 LEVANTE STREET

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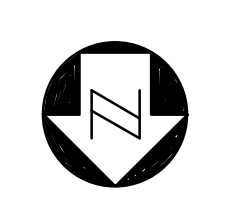
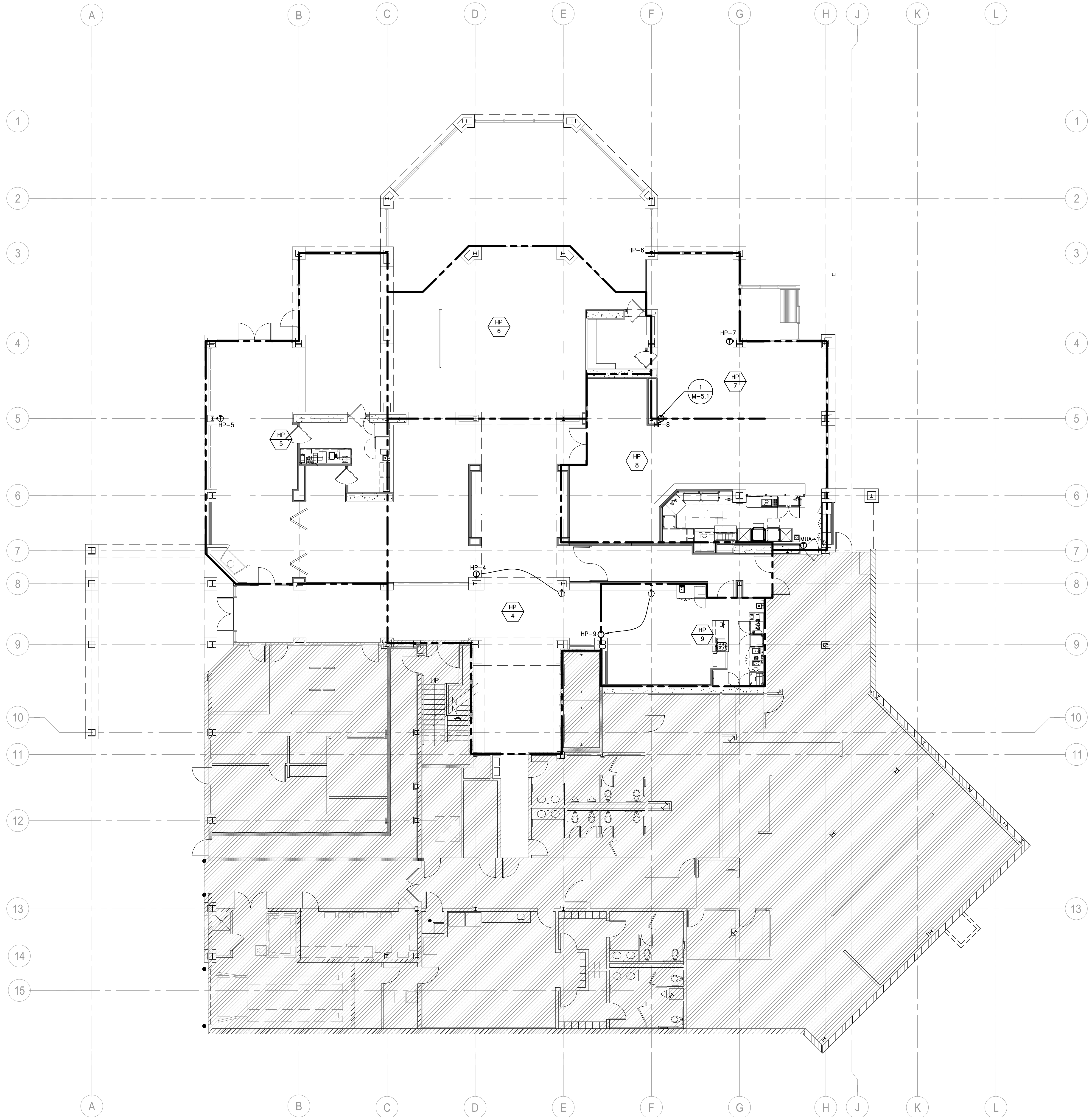
NO.	DATE	DESCRIPTION
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A	4-17-2020	2nd PC Submittal

If the client's responsibility prior to or during construction to verify the architect is writing of any perceived errors or omissions in the plans and specifications of which a contractor throughly knowledgeable with the building codes and methods of construction should reasonably be aware. Written instructions addressing such perceived errors or omissions shall be received from the architect prior to the client or client's representative proceeding with the work. The client will be responsible for any defects in construction if these procedures are not followed.



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**MECHANICAL
 DEMOLITION PLAN
 LOWER LEVEL**



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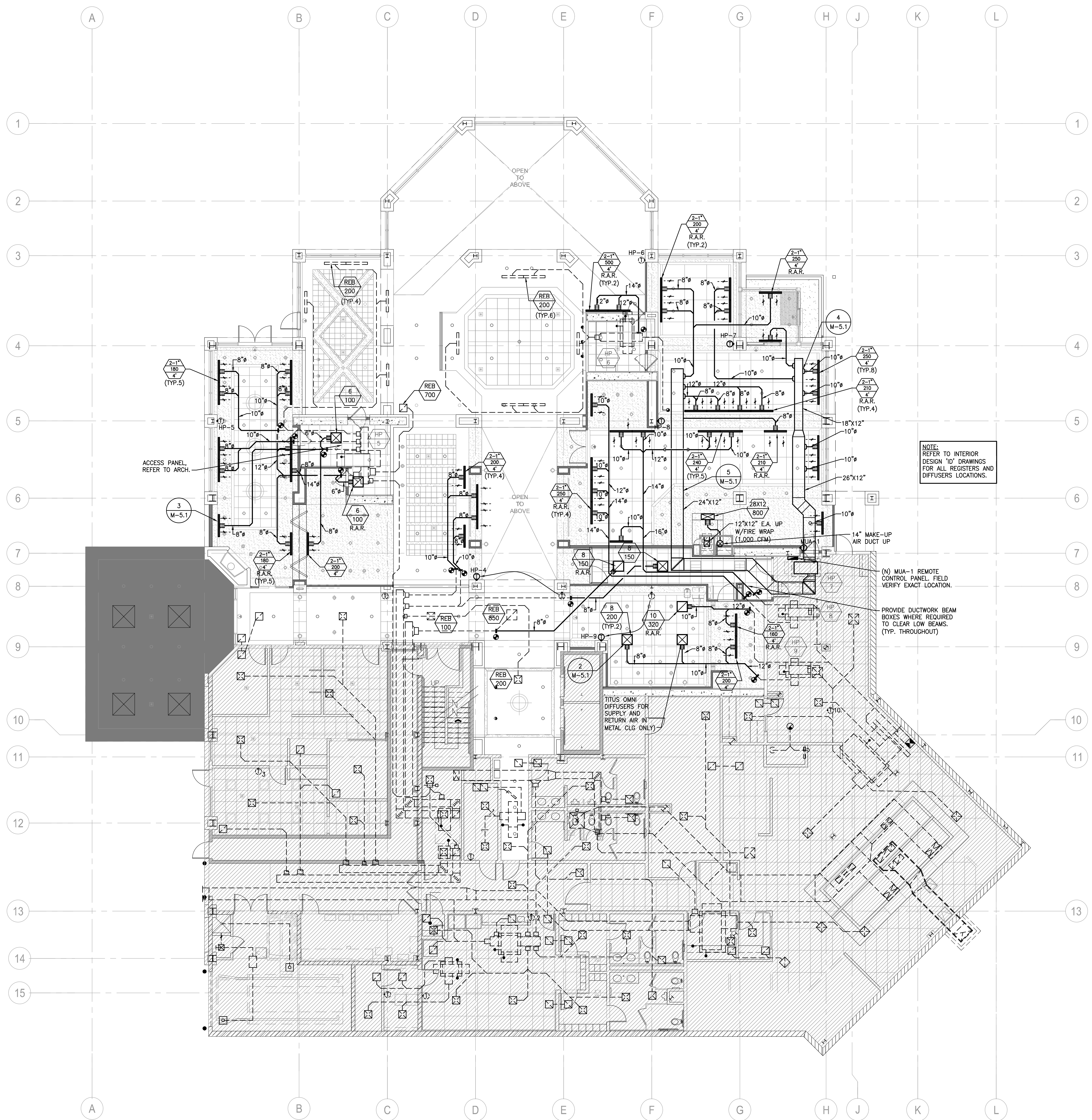
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MECHANICAL ZONING PLAN LOWER LEVEL



NOTE:
REFER TO INTERIOR
DESIGN '1D' DRAWINGS
FOR ALL REGISTERS AND
DIFFUSERS LOCATIONS.

(N) MUA-1 REMOTE
CONTROL PANEL. FIELD
VERIFY EXACT LOCATION.

PROVIDE DUCTWORK BEAM
BOXES WHERE REQUIRED
TO CLEAR LOW BEAMS.
(TYP. THROUGHOUT)

TITUS OMNI
DIFFUSERS FOR
SUPPLY AND
RETURN AIR IN
METAL CLS ONLY

ACCESS PANEL
REFER TO ARCH.



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KTGY Project No: 171180

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Email: dszalma@ktgy.com

Principal: Simon Perowitz
Project Designer: STAN BRADEN

Developer
La Costa Glen
CARLSBAD

LA COSTA GLEN
1970 LEVANTE STREET
CARLSBAD, CA 92009
PHONE NO. 800-852-4384
FAX NO. ----

LAKESIDE COMMONS DINING

1960 SILVERLEAF CIRCLE
CARLSBAD, CA 92009



Sheet Issue & Revision Log

INITIAL SUBMITTAL		
A	4-17-2020	2nd PC Submittal

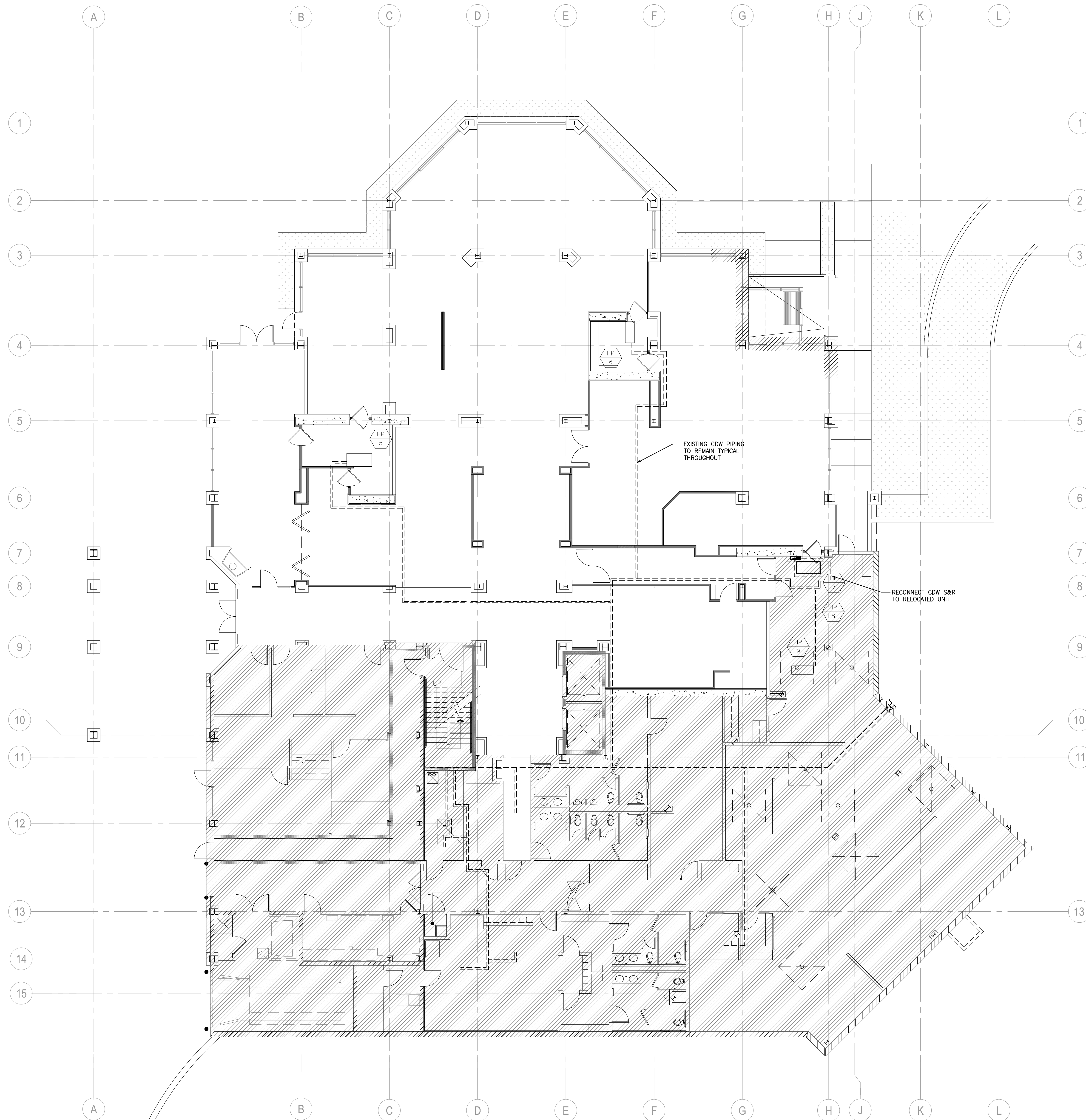
If the client's responsibility prior to or during construction to verify the architect is writing of any proposed errors or omissions in the plans and specifications of which a contractor throughly knowledgeable with the building codes and methods of construction should reasonably be aware. Written instructions addressing such proposed errors or omissions shall be received from the architect prior to the client or client's representative proceeding with the work. The client will be responsible for any defects in construction if these procedures are not followed.



15231 Laguna Canyon Road, Suite 100
Irvine, California 92618
949.751.5800 www.tksc.com
Project Leader - Daryl Garnier
Mechanical Lead - Elias Mendez
tksc Job #: 2018-0448

**MECHANICAL
PLAN LOWER
LEVEL**

M-2.1



Architecture + Planning
 17911 Von Karman Ave.
 Suite 200
 Irvine, CA 92614
 ktgy.com
 949.851.2133

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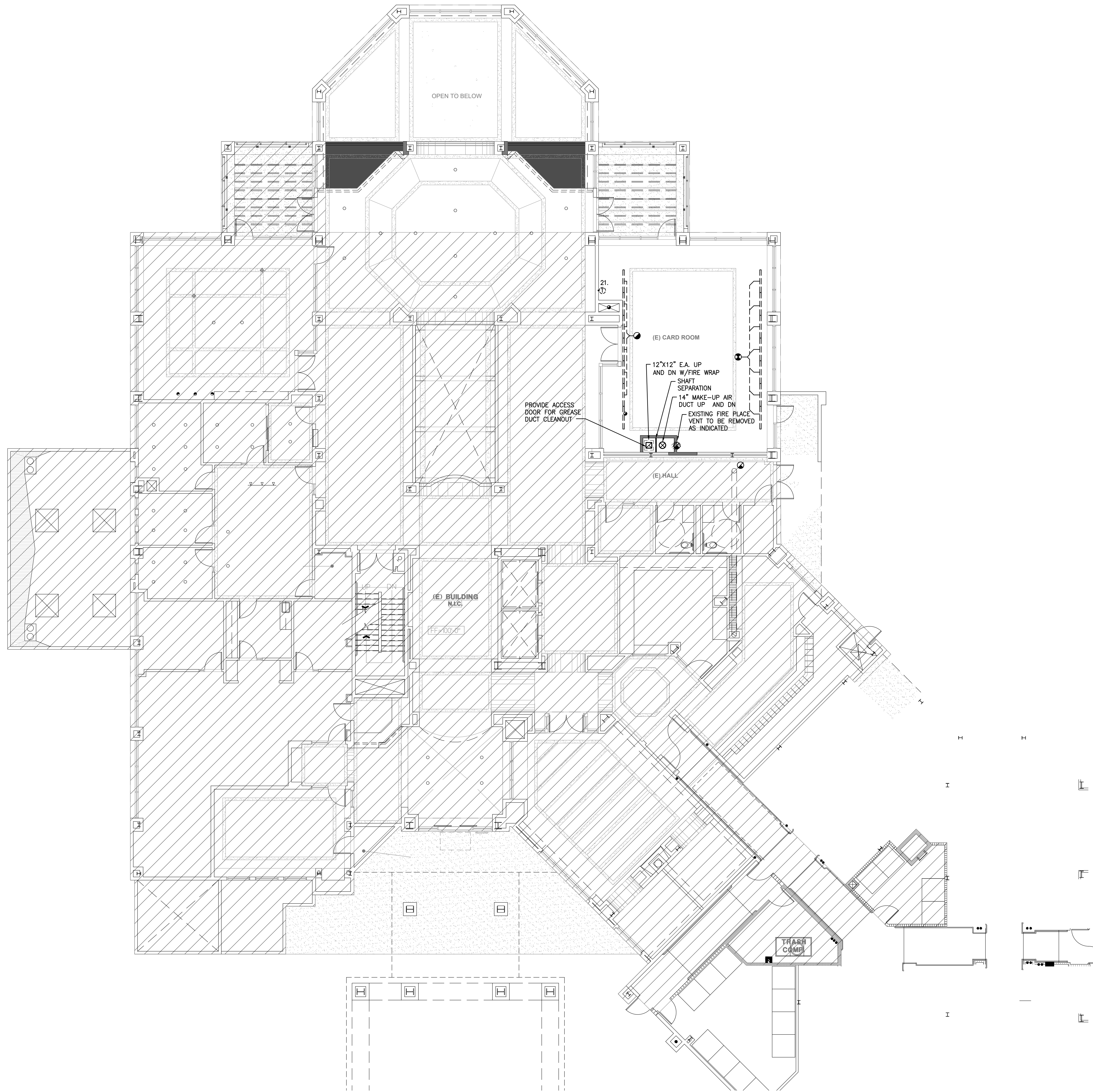
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MECHANICAL PIPING PLAN LOWER LEVEL



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



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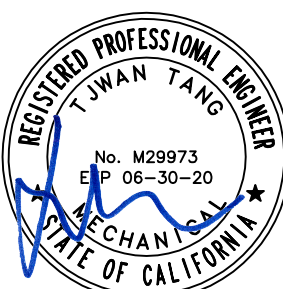
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MECHANICAL PLAN
 FIRST FLOOR

M-2.2



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DETAILS

