

ROOM NAME	ROOM AREA (SQ.FT.)	CEILING HEIGHT (F.T.)	AIR CHANGE RATE (ACH)	MIN REQUIRED AIR FLOW (CFM)	DESIGN SUPPLY AIR FLOW (CFM)	DESIGN EXHAUST AIR FLOW (CFM)	EQUIPMENT EXHAUST AIR FLOW (CFM)	TRANSFER AIR TO / FROM ADJACENT SPACE (CFM)	AIR BALANCE RELATIONSHIP TO ADJACENT AREA
AMP LAB 111	683	9	12	1845	3800	2875	475	-75	NEGATIVE TO AME LAB VESTIBULE
AMP LAB VESTIBULE 10	160	9	8	195	200	275	-	75	NEGATIVE TO CORRIDOR
CNA EXTRACTIONS LAB 1	1819	12	8	2915	3800	3620	-	300	POSITIVE
CNA EXTRACTIONS LAB 2	1024	9	8	1230	2180	1735	200	225	POSITIVE
STAIN PREPARATION 1	304	9	8	365	680	765	100	-75	NEGATIVE
STAIN PREPARATION 2	220	9	8	265	510	585	100	-75	NEGATIVE
REAGENT PREP	228	9	15	540	780	775	505	-75	NEGATIVE TO CORRIDOR
STORAGE	220	9	8	265	500	575	-	-75	NEGATIVE TO CORRIDOR
CORRIDOR	609	9	18	1375	1600	1225	-	375	POSITIVE
FREEZER ROOM	151	9	8	185	675	830	-	-75	NEGATIVE
VESTIBULE	103	9	8	125	125	275	-	-150	NEGATIVE TO CORRIDOR
ALL GENDER RR	68	9	4	45	0	75	-	-75	NEGATIVE TO CORRIDOR

The mechanical layout plan illustrates the placement of mechanical equipment and airflow rates for various rooms. Key components include:

- Air Conditioning Units (AC):** AC1, AC2, AC3, AC4, and AC5 are positioned throughout the plan, with their respective airflow rates (e.g., 3000 CFM SA, 1200 CFM SA) indicated.
- Exhaust Fans (EXH):** Numerous exhaust fans are shown with their airflow rates (e.g., 575 CFM EXH, 1200 CFM EXH, 3000 CFM EXH).
- Return Air Fans (TR):** Return air fans are shown with their airflow rates (e.g., 75 CFM TR, 150 CFM TR, 300 CFM TR).
- Rooms and Equipment:** Rooms include ALL GENDER RESTROOM, STORAGE, REAGENT PREP, HALLWAY, STAIN PRESERVATION, FREEZER, DNA EXTRACTIONS, AMP LAB, and AMP LAB VESTIBULE. Equipment like TE1 (A), TE1 (B), and TE1 (C) are also labeled.
- Flow Indicators:** Arrows indicate the direction of airflow, showing both exhaust and return air paths.



M002

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**BERNARDINO COUNTY
SHERIFF'S CRIME LAB**
200 SOUTH LENA RD.
SAN BERNARDINO, CA



SAN BERNARDINO COUNTY
PROJECT

[illegible]

[illegible]

Laboratory		All others	840						
17	Total System Required Min. CM CM		126	0	18	0	0	0	0
18	System Design CM CM		126	0	18	0	0	0	0
19	System Design CM CM		126	0	18	0	0	0	0
20	System Design CM CM		126	0	18	0	0	0	0
21	System Design CM CM		126	0	18	0	0	0	0
22	System Design CM CM		126	0	18	0	0	0	0
23	System Design CM CM		126	0	18	0	0	0	0
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64	System Design CM CM		126	0	18	0	0	0	0
65	System Design CM CM		126	0	18	0	0	0	0

Mechanical Systems			CALIFORNIA INDEPENDENT CONTRACTORS' ASSOCIATION	
Contract No. _____			NAIC # _____	
Project Name _____	Project Location _____	Project Status _____	Report Date _____	Page 12 of 12
			05/20/2015	
1. DISTRIBUTION (DUCTWORK AND PIPING)				
		Swelling Issues: Total duct leakage of duct systems shall not exceed 12% of duct systems in isolation that shall not exceed 0.1% per ASHRAE 91.3 required for systems?		No
		Duct leakage testing per CMV Section 053.3 required for these systems?		No
11	No	The scope of the project includes only duct systems serving healthcare facilities.		
12	No	The system provides conditioned air for an emergency space for a constant volume, single zone, space conditioning system.		
13	No	The space conditioning system uses less than 1,000,000 of conditioned cubic feet per year.		
14	No	The conditioned surface area of the ducts is more than 25% of the total surface area of the system's exterior walls.		
15	No	The scope of the project includes installing an existing duct system, which is constructed, installed and sealed in accordance with the requirements of the California Mechanical Code.		
16	No	The scope of the project includes an existing duct system that has been previously sealed in accordance with California Mechanical Code verification and diagnostic testing in accordance with procedures in the referenced International Association NATE.		
17	No	all Ductwork and Piping with pressure class ratings that is connected to Test Class 1.		
18	No	All ductwork is in association of an existing duct system.		
19	No	Between existing ductwork and new ductwork.		
20	0.6	Duct insulation is less than 1/2 inch.		
21	1.5	1/2 ft. of new or replacement space conditioning ducts installed.		
22	0.6	Duct insulation is less than 1/2 inch.		
The answers to the questions below apply to the following duct systems:			CMV Question: Duct leakage testing shall not exceed 0.1% per ASHRAE 91.3 required for these systems?	No

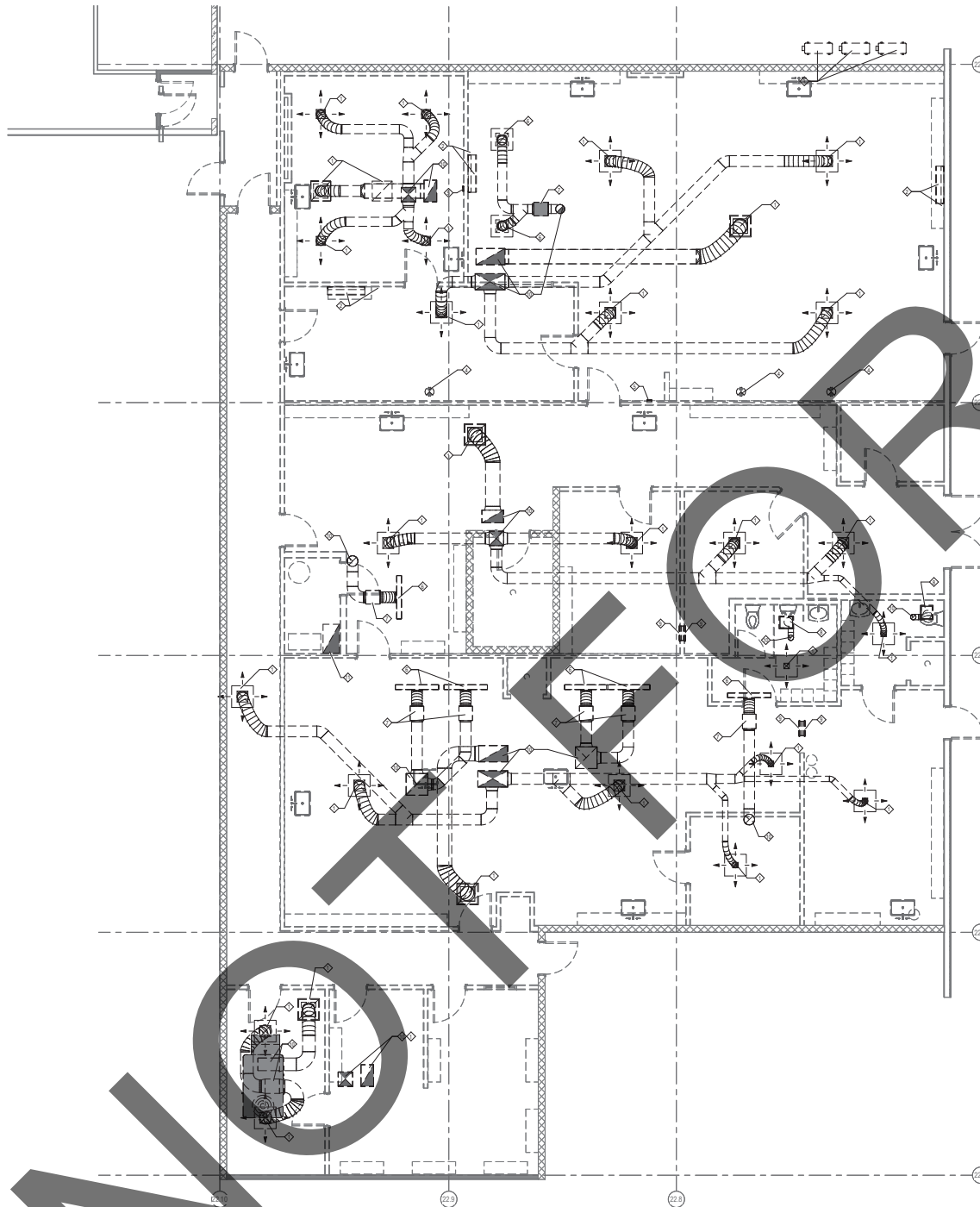
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ME COOLING TOWERS	
This section does not apply to this project.	
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CA Building Energy Efficiency Standards 2022 Nonresidential Compliance	Compliance ID: EnergySoft/2022-0701
Report Version: 2022.0.002	Report Generated: 2024-04-16 11:00:03
Schedule Version: ver 20220323	

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000	Compliance ID: EnergyPro-4473-0624-1476
	Schedule Version: jpy_20220311	Report Generated: 2024-08-08 13:05:01
Generated Date/Time:		Documentation Software: EnergyPro

NOT FOR CONSTRUCTION^{JO}



MECHANICAL DEMOLITION FLOOR PLAN - LAB

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



GENERAL NOTES

1. FOR LINE TYPES, SYMBOLS & ABBREVIATIONS SEE LEGEND ON SHEET 0001.
2. PATCH WALL PENETRATIONS TO MATCH ARCHITECTURAL SPECIFICATIONS.
3. COLLECT AND DISPOSE OF EXISTING DEMOLITION DEBRIS FROM EXISTING EQUIPMENT BEING REMOVED PER SECTION 03000 OF THE CLEAN AIR ACT.

CONSTRUCTION NOTES

- ◆ DEMOLISH EXISTING AIR DEVICE, CONNECTED DUCT AND SUPPORTS SHOWN AS DASHED BACK TO AC UNIT ON ROOF.
- ◆ REMOVE EXISTING WALL MOUNTED FAN COIL, DEMOLISH CONNECTED REFRIGERANT LINE SET AND SUPPORTS SHOWN AS DASHED BACK TO CONDENSING UNIT ON GRADE.
- ◆ REMOVE EXISTING CONDENSING UNIT ON GRADE SHOWN AS DASHED.
- ◆ DEMOLISH EXISTING HOOD EXHAUST DUCT SHOWN AS DASHED UP THRU ROOF TO LAB EXHAUST FAN, PATCH & REPAIR ROOF TO MATCH EXISTING ROOF WARRANTY.
- ◆ REMOVE EXISTING TEMPERATURE SENSOR SHOWN AS DASHED, DEMOLISH CONNECTED WIRE & CONDUIT BACK TO AC UNIT ON ROOF.
- ◆ DEMOLISH EXISTING AIR DEVICE, CONNECTED DUCT AND SUPPORTS SHOWN AS DASHED BACK TO RETARD VENT ON ROOF.
- ◆ REMOVE EXISTING ALINE FAN SHOWN AS DASHED.
- ◆ REMOVE EXISTING CEILING EXHAUST FAN, DEMOLISH CONNECTED DUCT & SUPPORTS SHOWN AS DASHED UP TO ROOF VENT.
- ◆ DEMOLISH EXISTING WALL REGISTER & CONNECTED DUCT SHOWN AS DASHED.
- ◆ DEMOLISH DUCT THRU ROOF, PATCH & REPAIR ROOF TO MATCH EXISTING ROOF WARRANTY.
- ◆ DEMOLISH COMBUSTION AIR DUCTS THRU ROOF, PATCH & REPAIR ROOF TO MATCH EXISTING ROOF WARRANTY.

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STAMPS



SAN BERNARDINO COUNTY
SHERIFF'S CRIME LAB
200 SOUTH LENA RD.
SAN BERNARDINO, CA

PROJECT



CLIENT

MARK	DATE	DESCRIPTION

PROJECT NO.: 08C-002

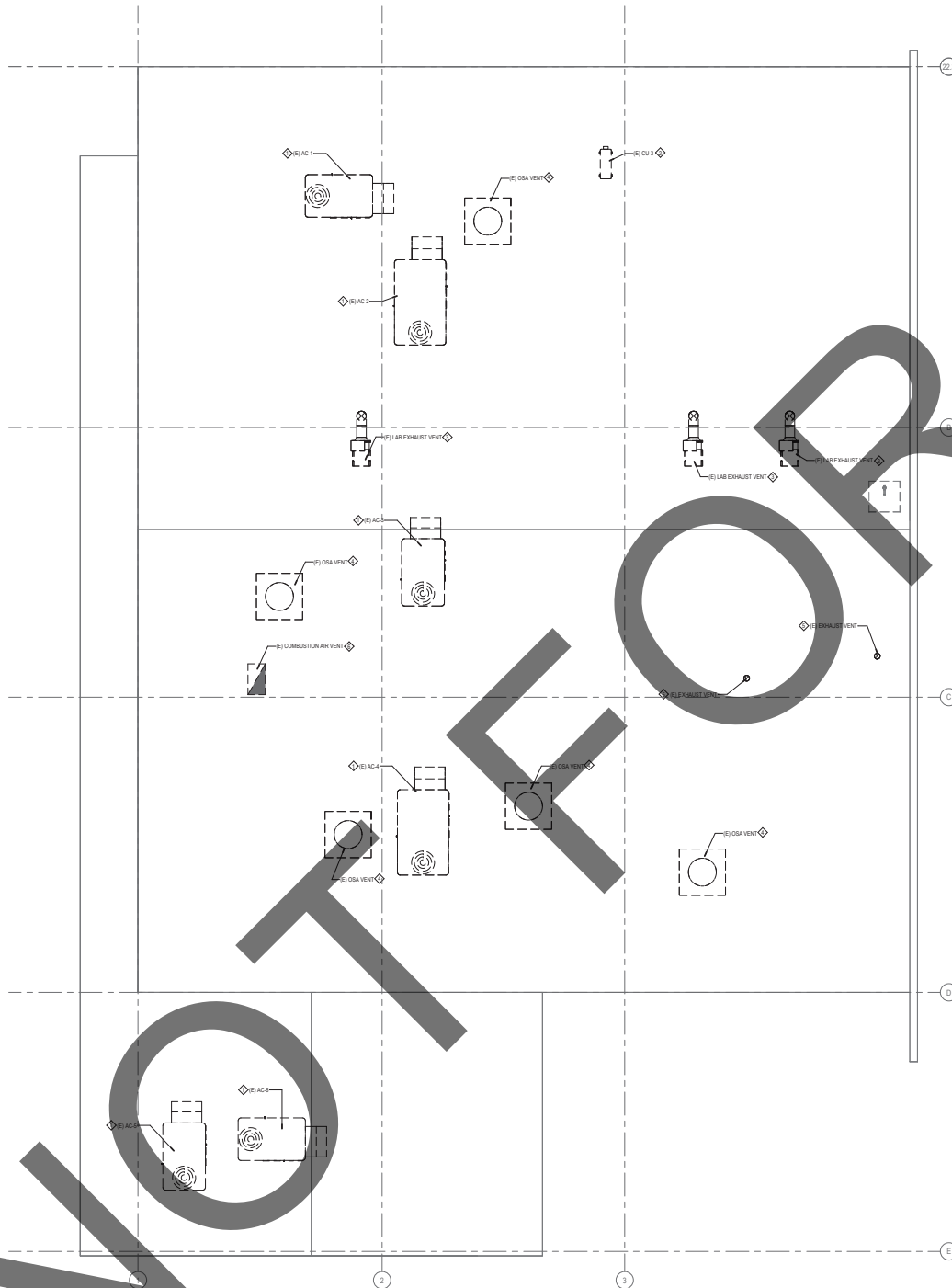
SHEET TITLE

MECHANICAL
DEMOLITION
FLOOR PLAN - LAB

SHEET NO.:

MD100





MECHANICAL DEMOLITION ROOF PLAN - LAB

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

GENERAL NOTES

1. FOR LINE TYPES, SYMBOLS & ABBREVIATIONS SEE LEGEND ON SHEET M001.
2. PATCH ROOF PENETRATIONS AS NEEDED TO MAINTAIN EXISTING ROOFING WARRANTY.
3. COLLECT AND DISPOSE OF EXISTING ROOFING MATERIAL FROM EXISTING EQUIPMENT BEING REMOVED PER SECTION 09 05 00, CLEAN AIR ACT.

CONSTRUCTION NOTES

- ◆ REMOVE EXISTING AC UNIT, ROOF CURB & ECONOMIZER SHOWN AS DASHED ON ROOF.
- ◆ REMOVE EXISTING CONDENSING UNIT, EQUIPMENT PLATFORM & CONNECTED REFRIGERANT LINE SET SHOWN AS DASHED.
- ◆ REMOVE EXISTING LAB EXHAUST VENTILATOR & ROOF CURB SHOWN AS DASHED ON ROOF.
- ◆ REMOVE EXISTING OSA VENTILATOR & ROOF CURB SHOWN AS DASHED ON ROOF.
- ◆ DEMOLISH EXISTING EXHAUST VENT & ROOF JACK SHOWN AS DASHED.
- ◆ DEMOLISH EXISTING COMBUSTION AIR DUCT & ROOF JACK SHOWN AS DASHED.

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CONSULTANT:

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MECHANICAL, ELECTRICAL, & HYDRAULIC CONSULTANTS

STAMP:

**SAN BERNARDINO COUNTY
SHERIFF'S CRIME LAB**
200 SOUTH LENA RD.
SAN BERNARDINO, CA

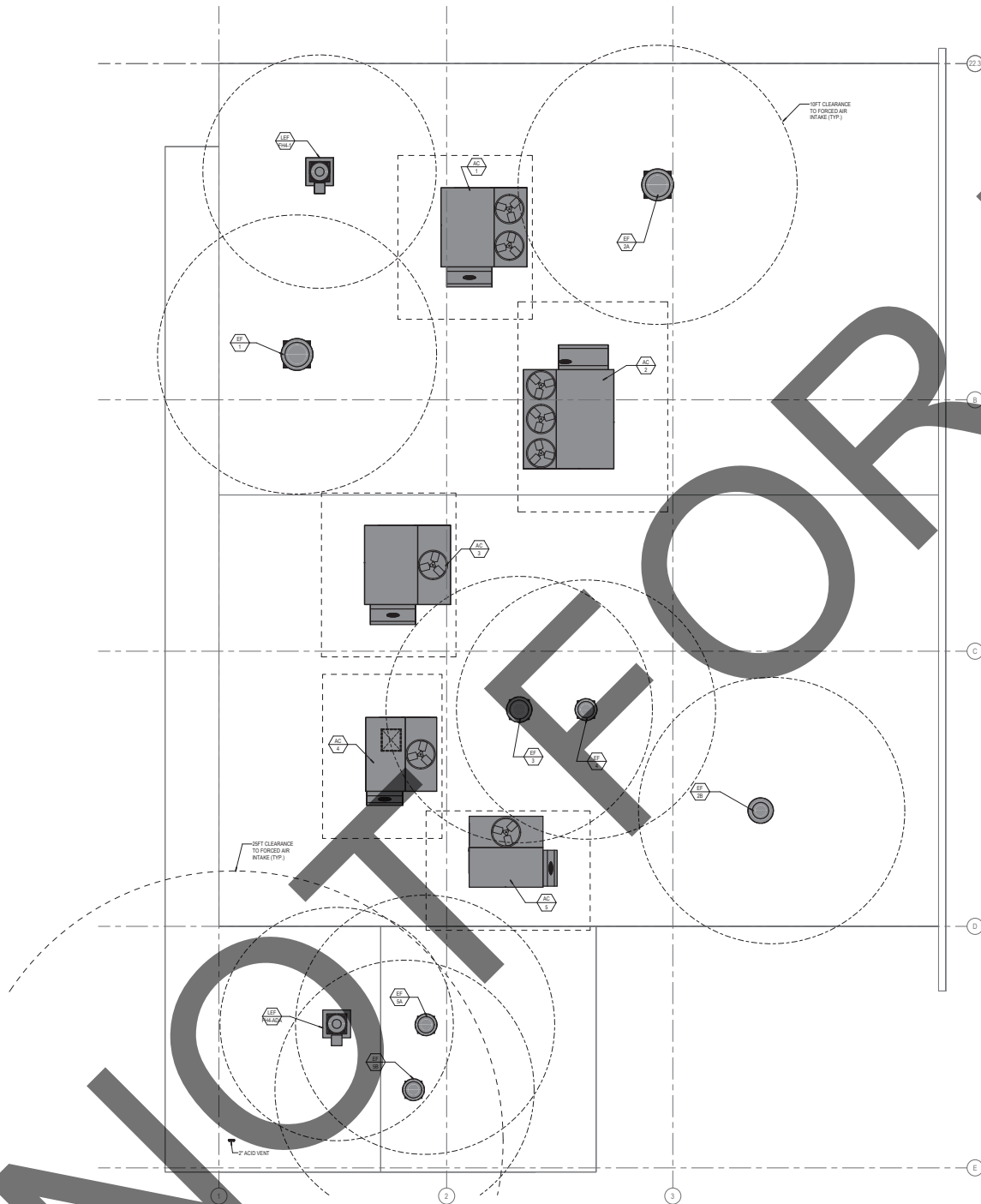
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MARK	DATE	DESCRIPTION

PROJECT NO.: 0802002

SHEET TITLE:
**MECHANICAL
DEMOLITION
ROOF PLAN - LAB**

SHEET NO.:
MD120



GENERAL NOTES

- FOR LINE TYPES, SYMBOLS & ABBREVIATIONS SEE LEGEND ON SHEET M001.
- DUCT DIMENSIONS ARE NET INSIDE CLEAR.
- ENVIRONMENTAL EXHAUST DUCTS SHALL TERMINATE AT LEAST 10 FEET FROM A PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, 10 FEET ABOVE A PUBLIC HIGHWAY AND 3 FEET FROM OPENINGS INTO THE BUILDING. THE ARCHITECT SHALL PROVIDE ENVIRONMENTAL EXHAUST DUCTS SHALL NOT BE DIRECTED ONTO A PUBLIC HIGHWAY PER (C.A.S. 92.2).
- PROVIDE DURABLE FLEXIBLE CONNECTION AT ALL DUCT AT EQUIPMENT LOCATION.
- COORDINATE WITH GENERAL CONTRACTOR FOR BUILDING TO BE PURGED, UNOCCUPIED AND PRIOR TO OCCUPANCY. FILTERS SHALL BE REPLACED BEFORE PURGE AND UPON COMPLETION OF PURGE CYCLE.

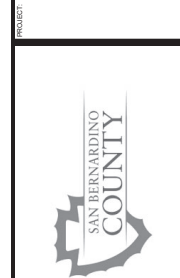
FOR DUCT THRU ROOF, SEE DETAIL 14.1



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**SAN BERNARDINO COUNTY
 SHERIFF'S CRIME LAB**
 200 SOUTH LENA RD.
 SAN BERNARDINO, CA



MARK	DATE	DESCRIPTION

PROJECT NO.: 08C.002

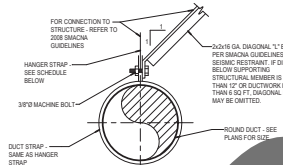
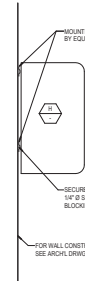
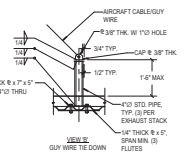
SHEET TITLE:
**MECHANICAL
 REMODEL ROOF
 PLAN - LAB**

SHEET NO.:
M120

MECHANICAL REMODEL ROOF PLAN - LAB

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





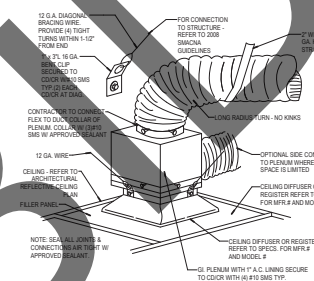
NOTE: PER 2020 SMACNA HVAC DUCT CONSTRUCTION STANDARDS AND 2019 CMR SECTION 8.01.00

12" SPACING HANGER STRAP SCHEDULE

DUCT SIZE	HANGER SIZE	MAX. SPACING	MATERIAL
UP THRU 10"	1" x 2 GA.	12'-0" O.C.	G.I. STEEL
11" TO 20"	1" x 2 GA.	12'-0" O.C.	G.I. STEEL
21" TO 40"	1" x 2 GA.	12'-0" O.C.	G.I. STEEL

12" SPACING HANGER STRAP SCHEDULE

DUCT SIZE	HANGER SIZE	MAX. SPACING	MATERIAL
UP THRU 10"	2" x 1 GA.	12'-0" O.C.	G.I. STEEL
11" TO 20"	2" x 1 GA.	12'-0" O.C.	G.I. STEEL
21" TO 40"	18" STEEL x 1 1/2"	12'-0" O.C.	G.I. STEEL

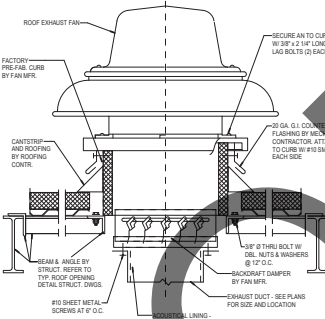


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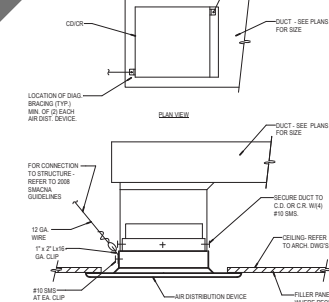
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RECTANGULAR		DUCT		
DUCT SIZE	GRADE	TRANSVERSE JOINT	BRACING	
UP TO 12"	26	OD. SS	NONE	
12" TO 18"	24	OD. SS	NONE	
18" TO 30"	24	OD. SS	NONE	
30" TO 42"	24	1" PG. OR SS	1x1x1-18	
42" TO 54"	22	1 1/2" STANDING SEAM	1x1x1-5	
ROUND				
DUCT SIZE	GRADE	TRANSVERSE JOINT	BRACING	
UP TO 9"	26	W. SLIP	NONE	
9" TO 14"	24	4" SLIP	NONE	
14" TO 20"	22	4" SLIP	NONE	
20" TO 30"	22	4" SLIP	1x1x1-18	

1. PERMACHINA 2020 HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE, 3RD EDITION AND 2022 CND;

2. LOW PRESSURE DUCT CONSTRUCTION: GAUGES, TRANSVERSE JOINTS, SPACING OF JOINTS AND INTERMEDIATE BRACING SHOWN AS TABULATED ABOVE, IN WHICH TRANSVERSE JOINTS ARE SHOWN AS FOR DUCTS 18" FOR DRIVE SLIP, 18" FOR POCKET SLIP, AND 18" FOR BAR SLIP. 18" AND 18" SHOWN AND INVERTED OPERATING, INTERMEDIATE BRACING WHERE SHOWN MAY BE OMITTED IF DUCT SECTIONS OF FOUR FEET (4'-0") OR LESS ARE USED. MAXIMUM SPACING OF BRACING - FOUR FEET (4'-0")

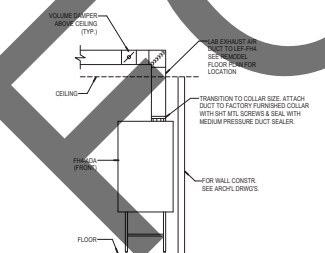


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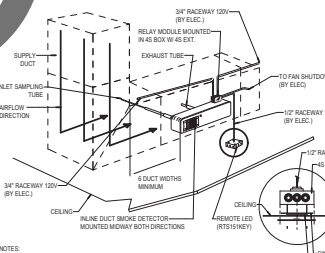
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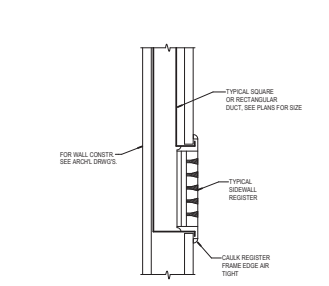
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NOTES:
LABORATORY EXHAUST DUCT FROM HOOD AND ALL RELATED ACCESSORIES (DAMPERS, ETC.) SHALL BE STAINLESS STEEL. SEE SPECIFICATION.
FOR DUCT SIZE AND AIR FLOW CFM - SEE REMODEL FLOOR PLAN SHEET M100 & LAB EXHAUST FAN SCHEDULE C SHEET M001
FOR FUME HOOD, SEE DETAIL 2L-500 AND SHEET L-101 FOR SPECIALTY BASE CABINETS



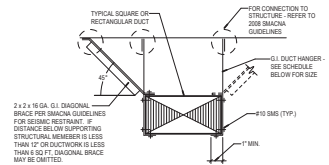
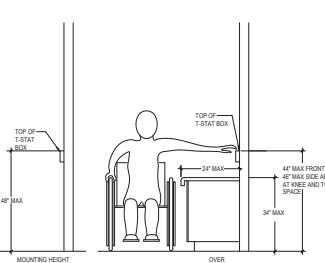
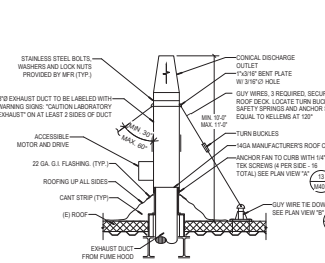
DUCT DETECTOR MUST BE PHOTOELECTRIC TYPE
DUCT DETECTOR SHALL BE MOUNTED IN SUPPLY DUCT PRIOR TO ANY TRANSITIONS OR TURNS
DUCT DETECTOR IS SYSTEM SENSOR INNOVACOR D4120 AIR
VELOCITY 100 TO 4000 FPM CSFM LISTING # 3242-1053-0027
WHERE DUCT SMOKE DETECTORS ARE NOT RE-SETTABLE
FROM THE PROTECTED FIRE ALARM SYSTEM. A LISTED
ALARM SUPERVISORY INDICATOR WITH IN INTEGRAL RESET



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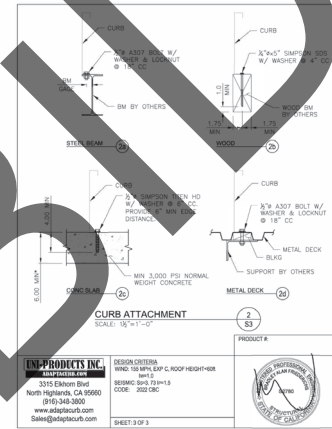
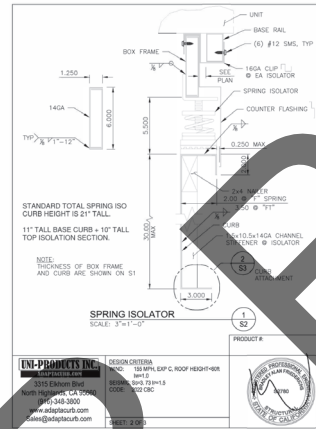
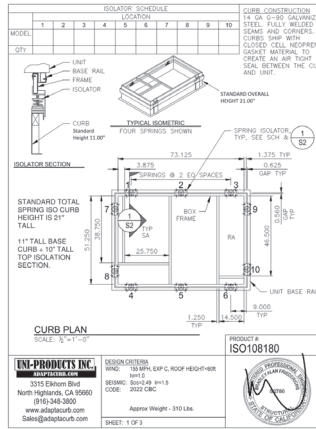


NOTE: PER 2020 IBC/ACI HANG STRAP CONSTRUCTION STANDARDS AND 2022 CBC SECTION 602 & 603				
18" x SPACING HANGER STRAP SCHEDULE				
DUCT SIZE	HANGER SIZE	MAX. SPACING	MATERIAL	
UP THRU 18"	1" x 18 GA.	12'-0" O/C	G.I. STEEL	
19" TO 30"	1" x 18 GA.	12'-0" O/C	G.I. STEEL	
31" TO 48"	1" x 18"	12'-0" O/C	G.I. STEEL	
12"x SPACING HANGER STRAP SCHEDULE				
DUCT SIZE	HANGER SIZE	MAX. SPACING	MATERIAL	
UP THRU 24"	1" x 18" STRAP	12'-0" O/C	G.I. STEEL	
25" TO 36"	1" x 18" ANGLE	12'-0" O/C	G.I. STEEL	
37" TO 48"	1.5" x 1.5" x 18" ANGLE	12'-0" O/C	G.I. STEEL	

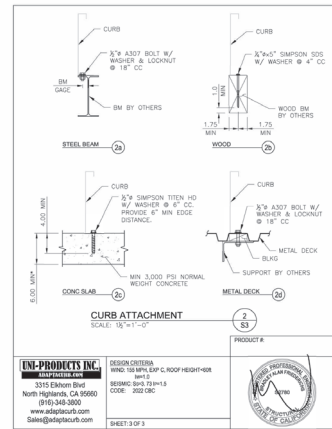
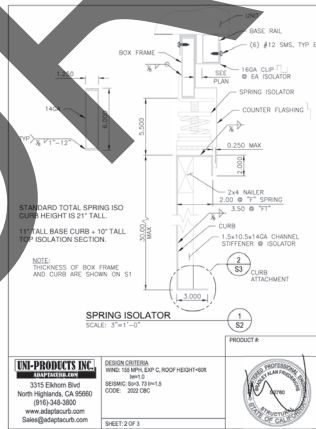
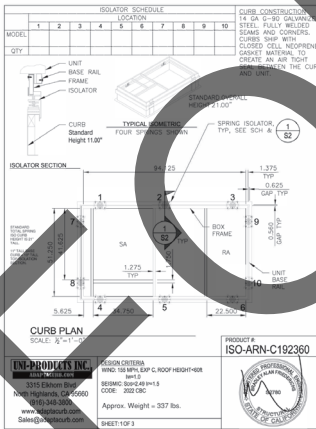
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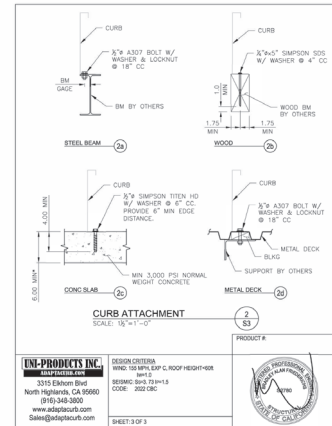
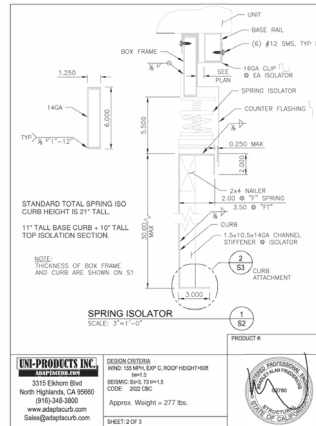
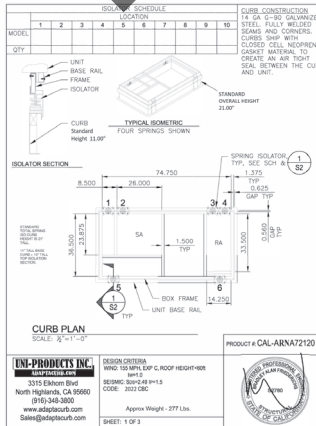
4



AC-1 & AC-3 UNIT MOUNTING 1



AC-2 UNIT MOUNTING 2



AC-4 & AC-5 UNIT MOUNTING 3

HOLT
 ARCHITECTURE

CONSULTANT:
 DESIGN WEST ENGINEERING
 MECHANICAL ELECTRICAL PLUMBING CONSULTANTS

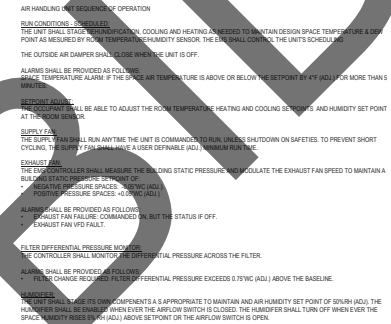


SAN BERNARDINO COUNTY
 SHERIFF'S CRIME LAB

PROJECT:
 PROJECT NO.: 08C-002

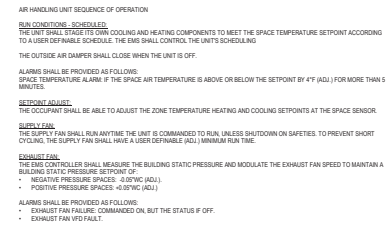
CLIENT:
 SHEET TITLE:
 MECHANICAL
 DETAILS

SHEET NO.:
M402



FILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOW GRAPH
	AI	AO	BI	BO	AV	BY	SCHEM (TREN)	ALARM	
TEMP	X							X	X
SETPT ADJUST	X							X	X
BUILDING STATIC PRESSURE	X							X	X
EXHAUST FAN STATUS			X					X	X
FILTER OFF. PRESSURE								X	X
OUTSIDE AIR DAMPER								X	X
EXHAUST FAN VFD SPEED			X					X	X
EXHAUST FAN VFD FAULT			X				X	X	X
EXHAUST FAN START/STOP				X			X	X	X
FILTER CHANGE REQUIRED								X	X

1

FILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS				SHOW GRAPH
	AI	AO	BI	BO	AV	BV	SCHEC	TREND	
TEMP ADJUST	X							X	
BUILDING STATIC PRESSURE	X							X	
EXHAUST FAN STATUS			X					X	
FILTER DIFF. PRESSURE					X		X	X	
OUTSIDE AIR DAMPER		X			X			X	
EXHAUST FAN VFD SPEED							X	X	
EXHAUST FAN VFD FAULT			X				X	X	
EXHAUST FAN START/STOP				X				X	
FILTER CHANGE REQUIRED							X	X	

2

POINT NAME	HARDWARE POINTS				SOFTWARE POINTS					SHORT GRAPH
	AI	AO	BI	BO	AV	BV	SCHED	TREND	ALARM	
EXHAUST FAN START/STOP			X							
EXHAUST FAN STATUS				X						

EXHAUST FAN SEQUENCE OF OPERATION
UNITS SHALL OPERATE TO THE SAME SCHEDULE OF THEIR RESPECTIVE AC UNIT
EXHAUST FANS ARE CONSTANT SPEED.

NOTE: EXPOSED FUEL GAS PIPING SHALL BE PRIME AND PAINTED, COORDINATE COLOR WITH ARCHITECT.

SYM.	DESCRIPTION	WASTE	TRAP	VENT	CW RISER	HW RISER	REMARKS
LS-1	LAB SINK - SINGLE BOWL	2"	1-1/2"	1-1/2"	3/4"	3/4"	R1 & C ONLY NEUTRALIZATION TANK
LS-2	LAB SINK - SINGLE BOWL	2"	1-1/2"	1-1/2"	1/2"	3/4"	R1 & C ONLY NEUTRALIZATION TANK
EW5	EYE WASH/SHOWER	2"	1-1/4"	1"	1"	1"	R1 & C ONLY NEUTRALIZATION TANK
EW	EYEWASH	-	-	-	1/2"	1/2"	R1 & C ONLY NEUTRALIZATION TANK
WP1	WATER POLISHER	-	-	-	3/4"	-	R1 & C ONLY NEUTRALIZATION TANK

NOTE: WHERE INSULATED PIPING IS EXPOSED OUTDOORS, IT SHALL BE COVERED. COVER OUTDOOR EXPOSED INSULATED PIPING WITH A CAP WITH FLASH COORDINATED WITH THE FLASHING.

SYMBOL	ITEM	LOCATION	DEMAND (IN CFH)
	BOILER		900
	SEWAGE HEATER REMOVED	EQUIP ROOM	40
	GLAC UNIT REMOVED	ROOF (GL 2, 3, 4, 5)	60-80-60-60-60-40 = 380
WATER	WATER HEATER	CEILING	125
AC-1	AIR CONDITIONER	ROOF	172.8
AC-2	AIR CONDITIONER	ROOF	308
AC-3	AIR CONDITIONER	ROOF	145.6
AC-4	AIR CONDITIONER	ROOF	70.2
AC-6	AIR CONDITIONER	ROOF	70.2

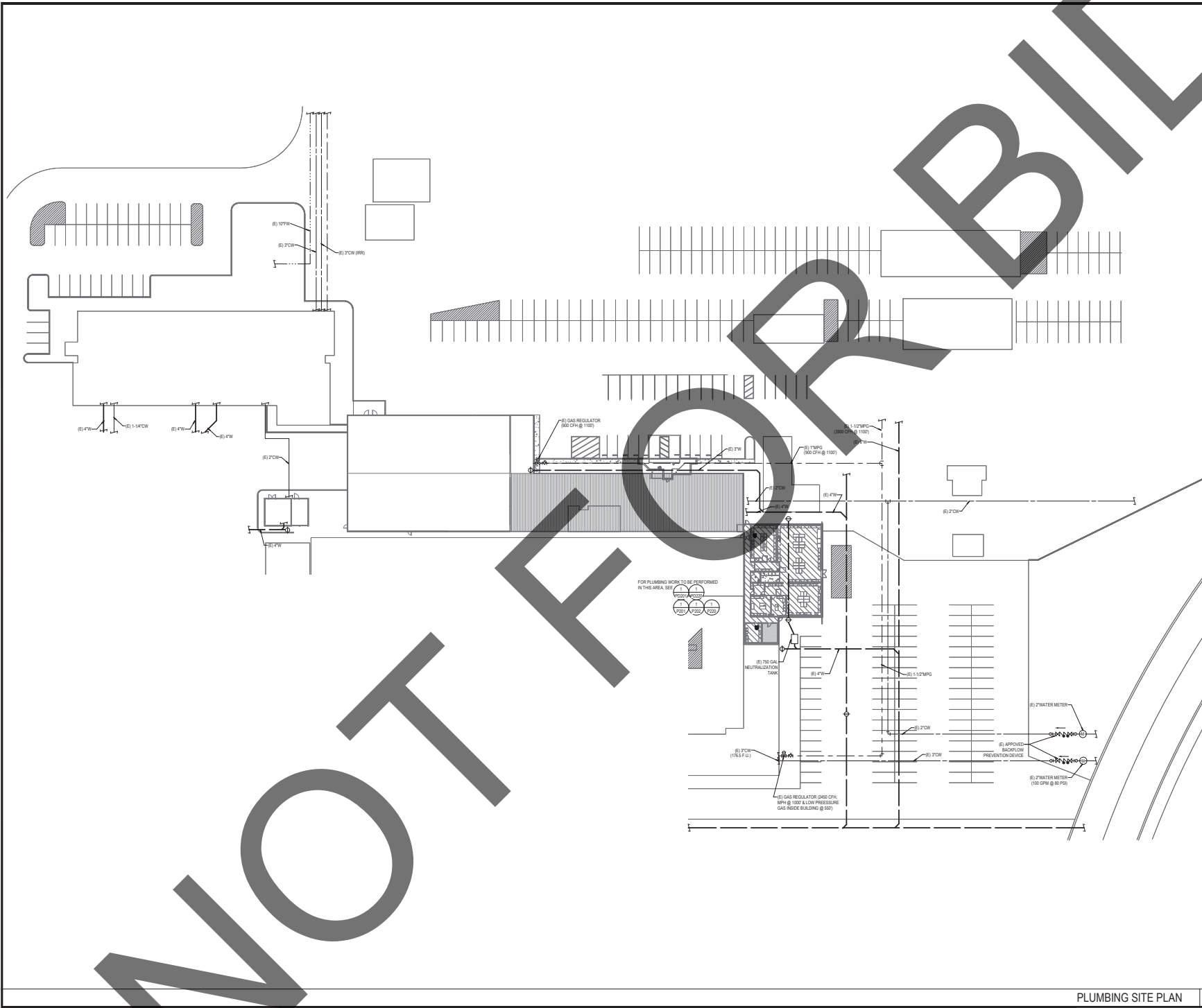
SHEET NO.:
P001

TEMPERED MIXING VALVE SCHEDULE				
TAG	MANUFACTURER & MODEL NO.	CW & HW INLET	OUTLET	OUTLET TEMPERATURE
10A-1	DAVID BOON 100-100	1/2"	1/2"	80°
10A-2	DAVID BOON 100-100	1"	1-1/8"	80°

Date	Time	Location	Weather	Wind	Temp	Humidity	Pressure	Remarks

P002

NOT FOR CONSTRUCTION



HOLT
ARCHITECTURE
38851 COOK ST. STE 103 | 2000 MARKET ST. STE 140
PALM DESERT, CA 92211 | RIVERSIDE, CA 92504
PH: 760.328.6280 | PH: 951.482.1451

CONSULTANT:

DESIGN WEST ENGINEERING
MECHANICAL ELECTRICAL PLUMBING CONSULTANTS

STAMP:

PROJECT:
**SAN BERNARDINO COUNTY
SHERIFF'S CRIME LAB**
200 SOUTH LEVANA RD.
SAN BERNARDINO, CA

CLIENT:

**SAN BERNARDINO
COUNTY**

MARK	DATE	DESCRIPTION

PROJECT NO.: 080-002

SHEET TITLE:
PLUMBING SITE PLAN

SHEET NO.:
P101

PLUMBING SITE PLAN
SCALE: 1" = 30'-0" 1

NOT FOR CONSTRUCTION



GENERAL NOTES

1. FOR LINE TYPES, SYMBOLS & ABBREVIATIONS SEE LEGEND ON P001
2. CONTRACTOR SHALL PATCH FLOORS, WALLS & CEILINGS TO MATCH NEW CONSTRUCTION PER ARCHITECTS SPECIFICATIONS.
3. PRIOR TO CONSTRUCTION CONTRACTOR SHALL FIELD VERIFY FOR EXACT SIZE LOCATION & INVERT ELEVATION OF EXISTING WASTE LINE & COORDINATE WITH PLUMBING ENGINEER FOR ANY CHANGES



36951 COOK ST. STE 103 2300 MARKET ST. STE 1
PALM DESERT, CA 92211 RIVERSIDE, CA 925
PH: 760.328.5280 PH: 951.462.14

CONSULTANT:



412 E. Vanderbilt Way
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
Email: cock@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

STAMPS



SAN BERNARDINO COUNTY
SHERIFF'S CRIME LAB

200 SOUTH LENA RD.
SAN BERNARDINO, CA

CONSTRUCTION NOTES



1000



1

[illegible]

PROJECT NO.: SBC.002

SHEET TITLE:

PUMBIN
DEMOLITION
FOUNDATION
PLAN - LAB

SHEET NO.:

PD200

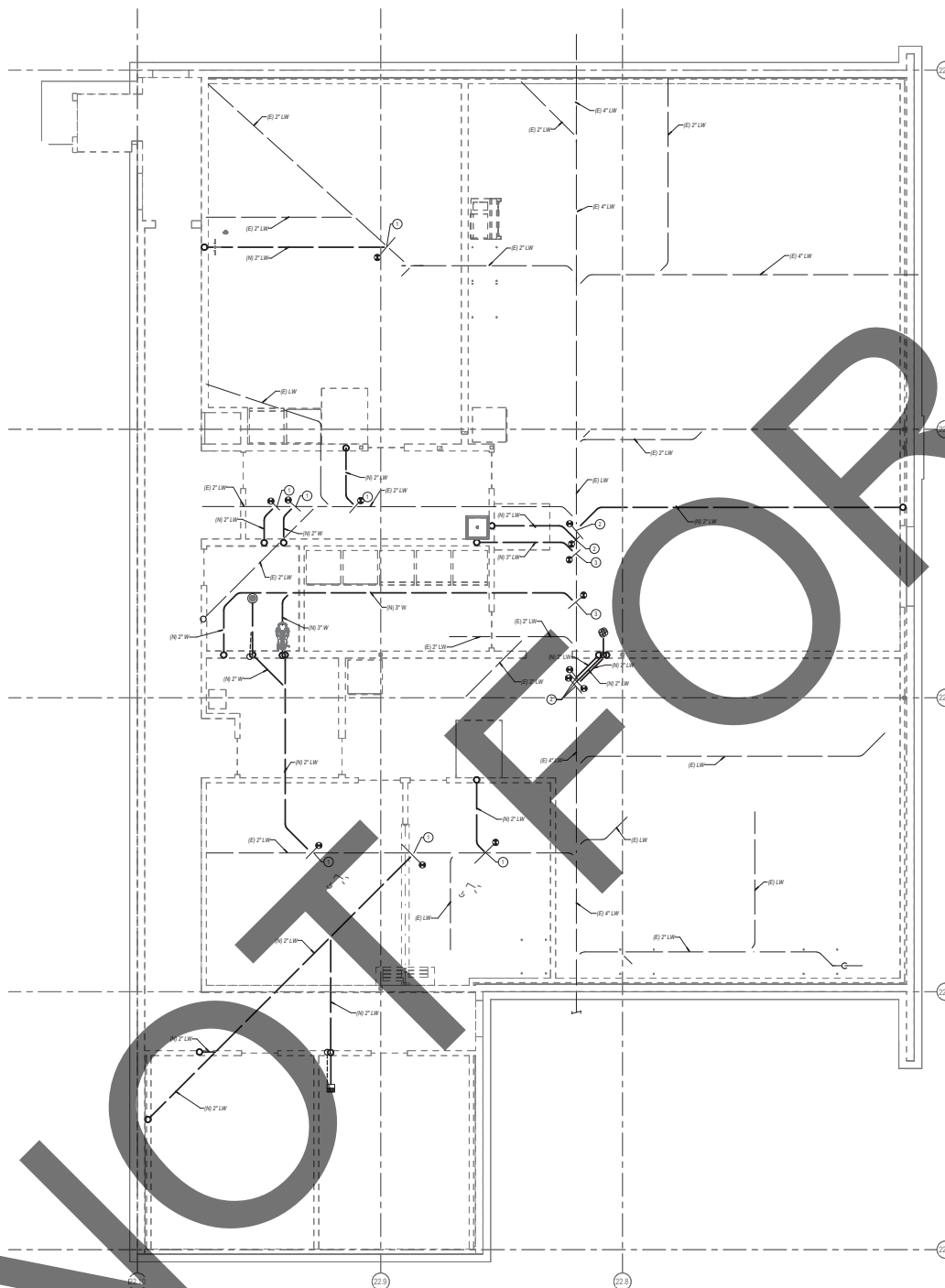
PLUMBING DEMOLITION FOUNDATION PLAN

SCALE: 1/4" = 1'-0"	1
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PD200

PD200



GENERAL NOTES

1. FOR LINE TYPES, SYMBOLS & ABBREVIATIONS, SEE LEGEND ON P101.
2. CONTRACTOR SHALL PATCH FLOORS, WALLS & CEILING TO MATCH NEW CONSTRUCTION PER ARCHITECT'S SPECIFICATIONS.
3. PRIOR TO CONSTRUCTION CONTRACTOR SHALL FIELD VERIFY FOR EXISTING PIPE, LOCATION & DEPTH. VERIFY FOR EXISTING WASTE, VENTS & COORDINATE WITH PLUMBING ENGINEER FOR ANY CHANGES.

CONSTRUCTION NOTES

- CONNECT NEW 2" WASTE TO EXISTING 2" WASTE
- CONNECT NEW 2" WASTE TO EXISTING 4" WASTE
- CONNECT NEW 3" WASTE TO EXISTING 4" WASTE

HOLT ARCHITECTURE
 58951 COOK ST., STE 103 | 2000 MARKET ST., STE 140
 PALM DESERT, CA 92211 | RIVERSIDE, CA 92504
 PH: 760.328.6280 | PH: 951.482.1451

CONSULTANT:

 DESIGN WEST ENGINEERING
 MECHANICAL, ELECTRICAL, & PLUMBING CONSULTANTS



**SAN BERNARDINO COUNTY
 SHERIFF'S CRIME LAB**
 200 SOUTH LENA RD.
 SAN BERNARDINO, CA

PROJECT:



CLIENT:

MARK	DATE	DESCRIPTION

PROJECT NO.: 080200

SHEET TITLE:
**PUMBIN
 REMODEL
 FOUNDATION
 PLAN - LAB**

SHEET NO.:
P200

P200-01.dwg 1/18/22 PM
 200-Adrian Brucini - Civil Engineer, Inc.
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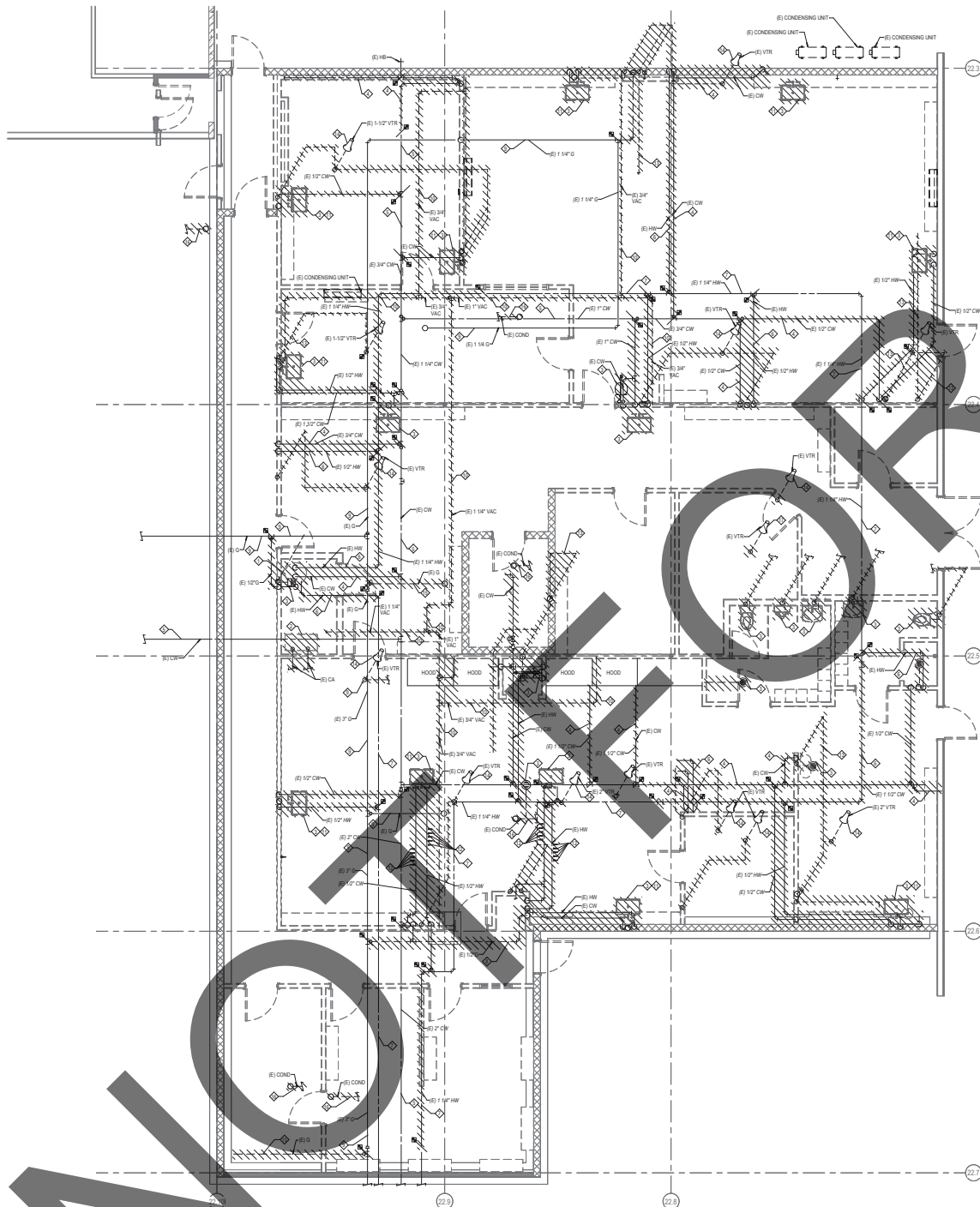
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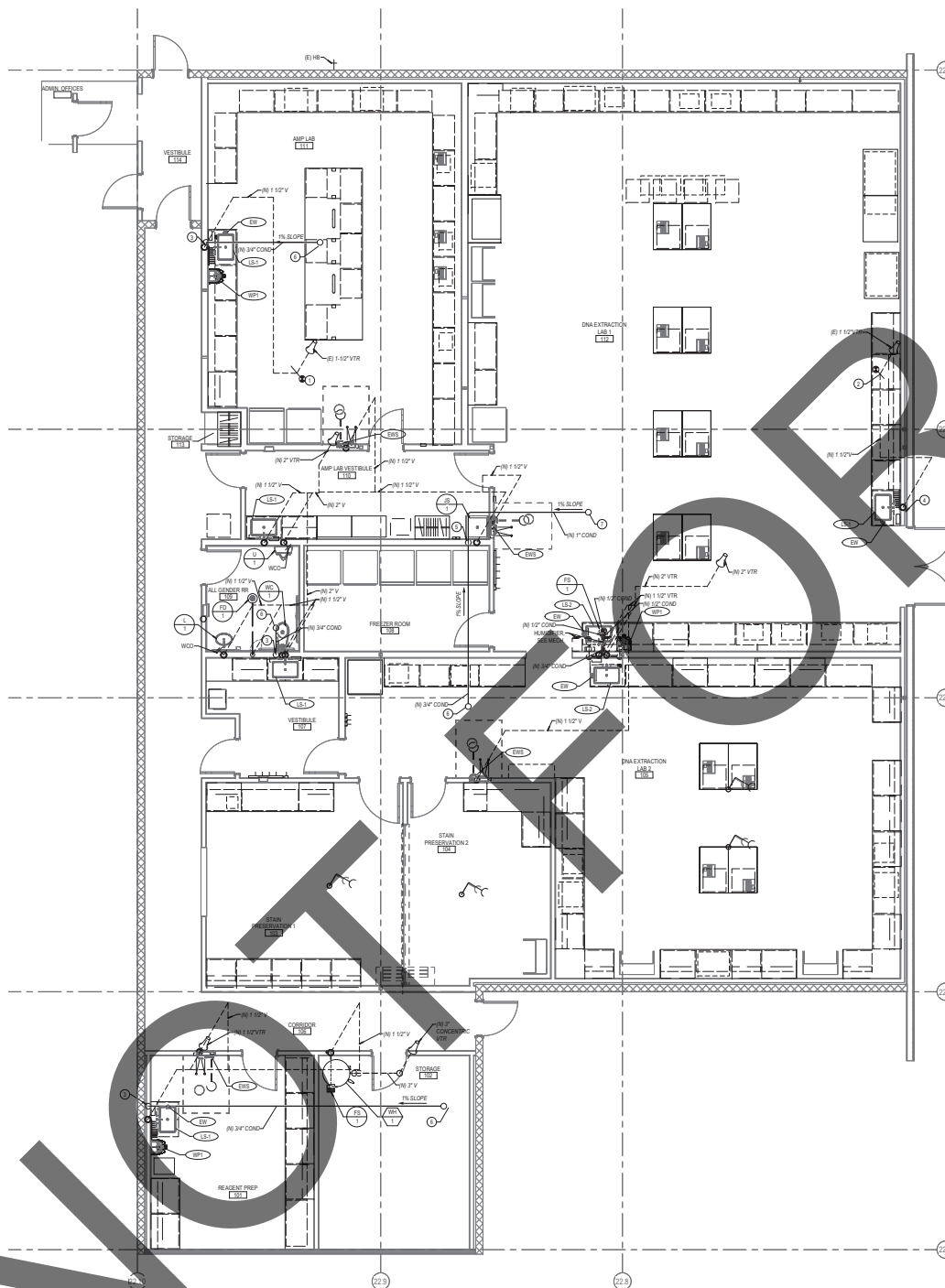
GENERAL NOTES

- FOR LINE TYPES, SYMBOLS & ABBREVIATIONS, SEE LISTING ON P101.
- CONTRACTOR SHALL PATCH FLOORS, WALLS & CEILING AFTER DEMOLITION CONSTRUCTION PER ARCHITECTS SPECIFICATIONS.
- PRIOR TO CONSTRUCTION CONTRACTOR SHALL VERIFY FOR EXISTING PIPING & WASTE LINE & COORDINATE WITH PLUMBING ENGINEER FOR ANY CHANGES.

DEMOLITION NOTES

- REMOVE (E) WATER HEATER. REMOVE CW, HW AND GAS PIPES BACK TO P.O.D. REMOVE FLEX VENT THROUGH ROOF. PATCH & REPAIR ROOF TO MATCH EXISTING ROOF WARRANTY.
- REMOVE (E) AIR COMPRESSOR & TANK. REMOVE CONNECTED EXISTING CA PIPES, SUPPORTS & TURRETS AS LAB.
- REMOVE (E) PLUMBING FUTURE. REMOVE RELATED DOMESTIC WATER PIPING BACK TO MAIN AND CAP IN CEILING. REMOVE RELATED WASTE PIPING BELOW SLAB AND CAP. REMOVE RELATED VENT PIPING TO ABOVE CEILING AND CAP.
- EXISTING CW PIPE SHOWN AS HATCHED TO BE REMOVED BACK TO P.O.D. AND CAP.
- EXISTING HW PIPE TO REMAIN, PROTECT IN PLACE.
- EXISTING HW PIPE SHOWN AS HATCHED TO BE REMOVED BACK TO P.O.D. AND CAP.
- EXISTING HW PIPE TO REMAIN, PROTECT IN PLACE.
- EXISTING GAS PIPE SHOWN AS HATCHED TO BE REMOVED BACK TO P.O.D. AND CAP IN CEILING.
- EXISTING GAS PIPE TO REMAIN, PROTECT IN PLACE.
- EXISTING VAC PIPE SHOWN AS HATCHED TO BE REMOVED.
- REMOVE (E) WATER FAUCET AND RELATED PIPING.
- REMOVE (E) LAB TURRETS. REMOVE RELATED GAS PIPING BACK TO MAIN AND CAP IN CEILING. REMOVE RELATED CA PIPING BACK TO AIR COMPRESSOR.
- REMOVE EXISTING VENT LINES ABOVE CEILING BACK TO P.O.D. AT VTR.
- REMOVE EXISTING VTR & CONNECTED VENT PIPES. PATCH & REPAIR ROOF TO MATCH EXISTING ROOF WARRANTY.
- EXISTING GAS PIPE SHOWN AS HATCHED TO BE REMOVED BACK TO P.O.D. AND CAP.
- REMOVE EXISTING COND BACK TO UNIT. PATCH & REPAIR ROOF TO MATCH EXISTING ROOF WARRANTY.
- EXISTING VENT TO BE REMOVED FOR NEW CONNECTION.





GENERAL NOTES

- FOR LINE TYPES, SYMBOLS & ABBREVIATIONS, SEE LISTED ON P101.
- CONTRACTOR SHALL PATCH FLOORS, WALLS & CEILING TO MATCH NEW CONSTRUCTION PER ARCHITECTS SPECIFICATIONS.
- PRIOR TO CONSTRUCTION CONTRACTOR SHALL FIELD VERIFY FOR EXISTING PIPE, LOCATION & DEPTH. VERIFY FOR EXISTING WALLS, CEILING & COORDINATE WITH PLUMBING ENGINEER FOR ANY CHANGES.
- FOR PIPE SUPPORT, SEE DETAIL (P101).
- FOR CONDENSATE TERMINATION, SEE DETAIL (P101).

CONSTRUCTION NOTES

- CONNECT NEW 1-1/2\"/>

HOLT
ARCHITECTURE

58551 COOK ST., STE. 103 | 2000 MARKET ST., STE. 140
PALM DESERT, CA 92211 | RIVERSIDE, CA 92504
PH: 760.328.6280 | PH: 951.482.1451

CONSULTANT:

DESIGN WEST ENGINEERING
MECHANICAL, ELECTRICAL, HYDRAULIC CONSULTANTS

STAMP:

PLUMBING ENGINEER
No. 13208
STATE OF CALIFORNIA

SAN BERNARDINO COUNTY
SHERIFF'S CRIME LAB

200 SOUTH LEVA RD.
SAN BERNARDINO, CA

PROJECT:

SAN BERNARDINO COUNTY

CLIENT:

MARK	DATE	DESCRIPTION

PROJECT NO.: 080C002

SHEET TITLE:
**PLUMBING WASTE & VENT REMODEL
FLOOR PLAN - LAB**

SHEET NO.:
P201

PLUMBING WASTE & VENT REMODEL PLAN

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

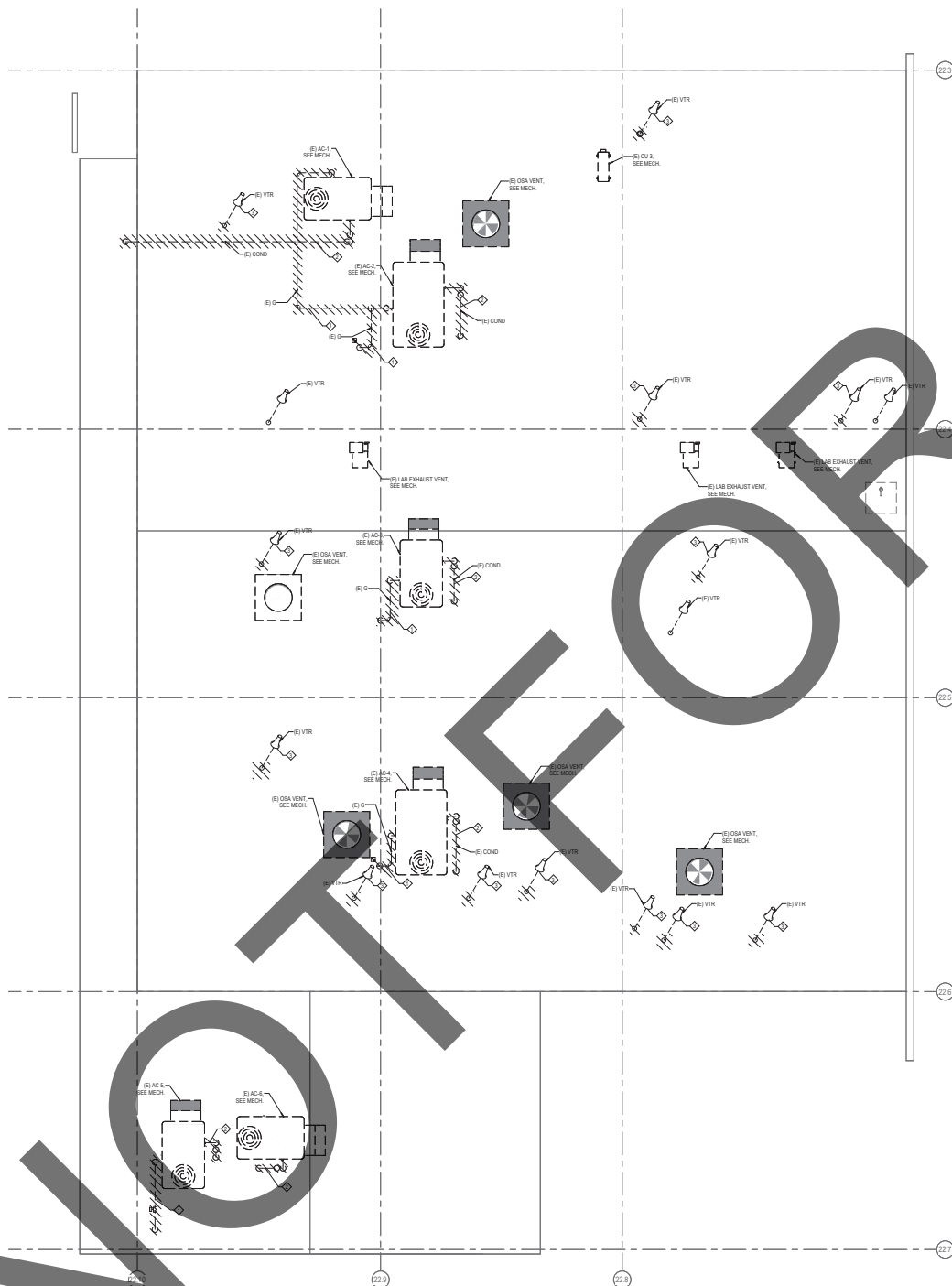


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P202

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

1. FOR LINE TYPES, SYMBOLS & ABBREVIATIONS SEE LEGEND ON P001.



CONSULTANT:



STAMPS



SAN BERNARDINO COUNTY
SHERIFF'S CRIME LAB

200 SOUTH LENA RD.
SANI BERNARDINO CA

DEMOLITION NOTES

- ◆ REMOVE (E) GAS PIPE & RELATED APPURTENANCES SHOWN AS HATCHED BACK TO P.O.D. PATCH & REPAIR ROOF TO MATCH EXISTING ROOF WARRANTY.
- ◆ REMOVE (E) COND PIPE & RELATED APPURTENANCES SHOWN AS HATCHED. PATCH & REPAIR ROOF TO MATCH EXISTING ROOF WARRANTY.
- ◆ REMOVE (E) PLUMBING VENT THRU ROOF. PATCH & REPAIR ROOF TO MATCH EXISTING ROOF WARRANTY.

PROJECT:



CLIENT:

[illegible]

PROJECT NO.: SBC.002

SHEET TITLE:

PLUMBING
DEMOLITION
ROOF PLAN - LAB

SHEET NO.:

PD220

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

1

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