FIRST 5 LA

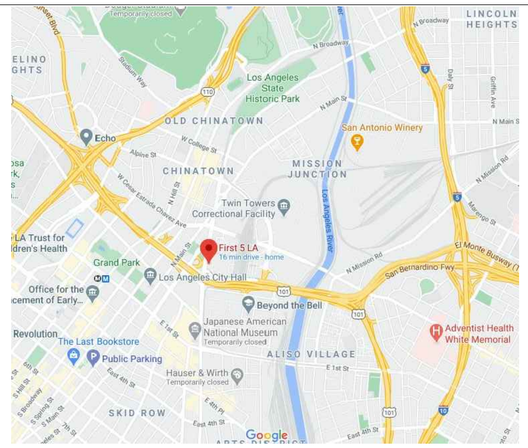
CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

UNION STATION

750 NORTH ALAMEDA STREET

LOS ANGELES, CALIFORNIA 90012

VICINITY MAP



APPLICABLE CODES & BUILDING DATA

1. 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1
2. 2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2015 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA AMENDMENTS)
3. 2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 (2014 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA AMENDMENTS)
4. 2019 CALIFORNIA MECHANICAL CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 (2015 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA AMENDMENTS
5. 2019 CALIFORNIA PLUMBING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2015 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS)
6. 2019 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6
7. 2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2015 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS)
8. 2019 CALIFORNIA EXISTING BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10 (2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC))
9. 2019 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12
10. AMERICANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG) WITH STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE
11. CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
12. NFPA 72 NATIONAL FIRE ALARM CODE 2016 EDITION

PROJECT SCOPE

1. TENANT IMPROVEMENT TO INTERIOR OFFICE SPACE IN EXISTING BUILDING, NO CHANGE IN OCCUPANCY TYPE.
2. REPLACEMENT OF 3 HVAC ROOFTOP UNITS.
3. REPLACEMENT OF EXISTING HOT WATER BOILER, PUMP, AND EXPANSION TANK..
4. REPLACEMENT OF EXISTING ROOFING.
5. INSTALL NEW SOLAR PANELS AND RELATED STRUCTURAL WORK.
6. INSTALL NEW EMERGENCY GENERATOR, ATS, AND NEW E-POWER DISTRIBUTION SYSTEM.
7. INSTALL PRE-ACTION AND CLEAN AGENT FIRE SUPPRESSION SYSTEMS IN COMPUTER SERVER ROOM.
8. INSTALL NEW AC UNITS IN COMPUTER SERVER ROOMS.
9. REPLACE ALL AUDIO VIDEO SYSTEM FOR MULTI-PURPOSE ROOM (MPR) AND ADJACENT COMMISSIONER'S CONFERENCE ROOM.
10. AUTOMATION OF RESTROOMS PLUMBING FLUSH VALVES, FAUCETS, AND TOILET ACCESSORIES.
11. REPLACE EXISTING DRINKING FOUNTAINS WITH AUTOMATIC DRINKING FOUNTAINS.
12. AUTOMATION OF RESTROOM AND MULTIPURPOSE ROOM DOORS.
13. PLASTIC SHIELD INSTALLATION AT EXISTING FURNITURE.
14. PATCH EXTERIOR PLASTER CRACKS.
15. REPLACE EXTERIOR WINDOW GLAZING GASKETS.
16. REMOVE EXISTING EXTERIOR TRASH AND STORAGE ENCLOSURE WALLS AND CONSTRUCT NEW ENCLOSURE WALLS FOR EMERGENCY GENERATOR, TRASH, AND STORAGE.
17. BUILDING IT NETWORK AND HARDWARE UPGRADE.

PROJECT CONTACTS

IMEG (MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL, & ARCHITECTURAL)
300 NORTH LAKE AVENUE
14TH FLOOR
PASADENA, CA 91101

PAUL DONG (MEP ENGINEER): 626-463-2850
CURTIS RO (ARCHITECT): 626-792-5450

MARRS (PM/CM)
340 E. COMMONWEALTH AVE.
FULLERTON, CA 92832

RIAZ CHAUDHARY, ISSA DABABNEH, GAMAL ELGAALI: 714-213-8650

F5LA (OWNER)
750 N. ALAMEDA STREET
LOS ANGELES, CA 90012

CARL GAYDEN, JOHN WAGNER: 213-482-5902

BUILDING INFO.

APPLICABLE CODES: 2019 CALIFORNIA BUILDING CODE

BUILDING CLASS A - INSTITUTIONAL LOW RISE OFFICE BUILDING

OCCUPANCY GROUP : B

CONSTRUCTION TYPE I, FULLY SPRINKLERED

BUILDING 3 STORIES

GROSS FLOOR AREA: FIRST FLOOR	15,000 SF
SECOND FLOOR	15,000 SF
THIRD FLOOR	15,000 SF
TOTAL	45,000 SF

SHEET INDEX

750 N Alameda St, Los Angeles, CA 90012

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PASADENA, CA 91101
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www.imegcorp.com
Project #: **19002647.00**

PROFESSIONAL SEAL

FIRST 5 LA
CAPITAL IMPROVEMENT
PROJECT (CIP) - PHASE I

DESIGN BUILD
BRIDGING DOCUMENTS

AGENCY APPROVAL

DISCLAIMER

Illinois Design Firm Registration #184-000973

REFERENCE SCALE IN INCHES

0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**HK**
Checked	**CR**
Approved	**CR**

SHEET TITLE

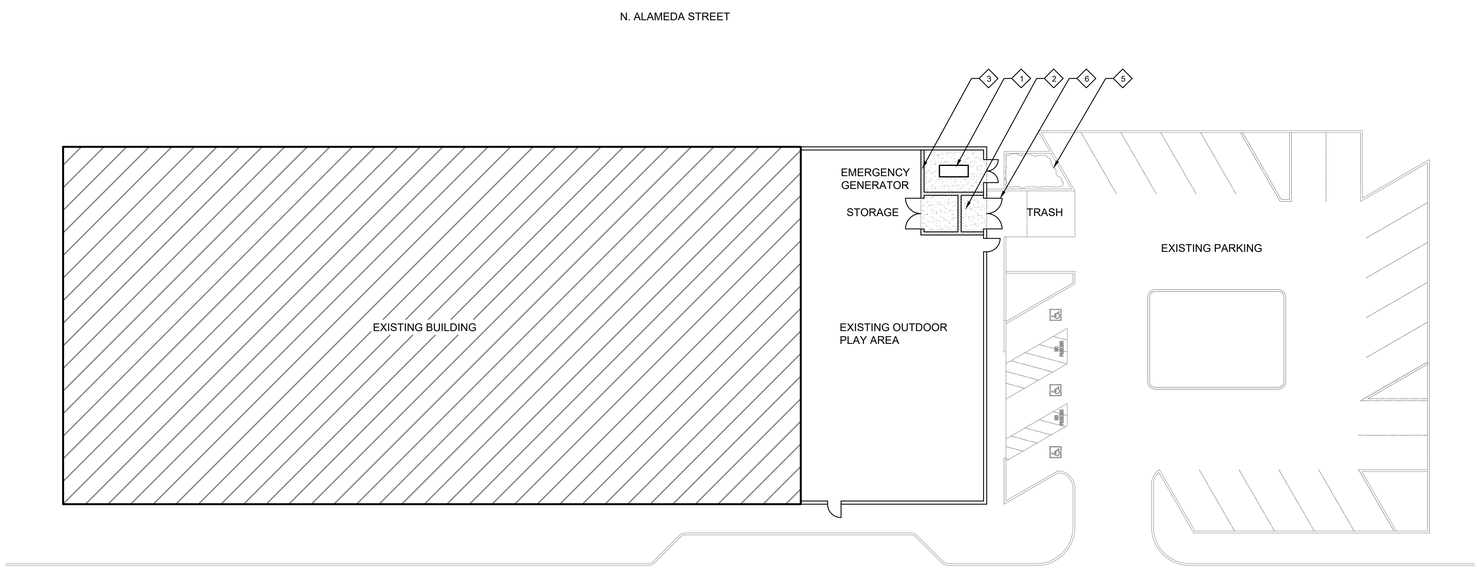
TITLE SHEET

SCALE

Scale: AS INDICATED

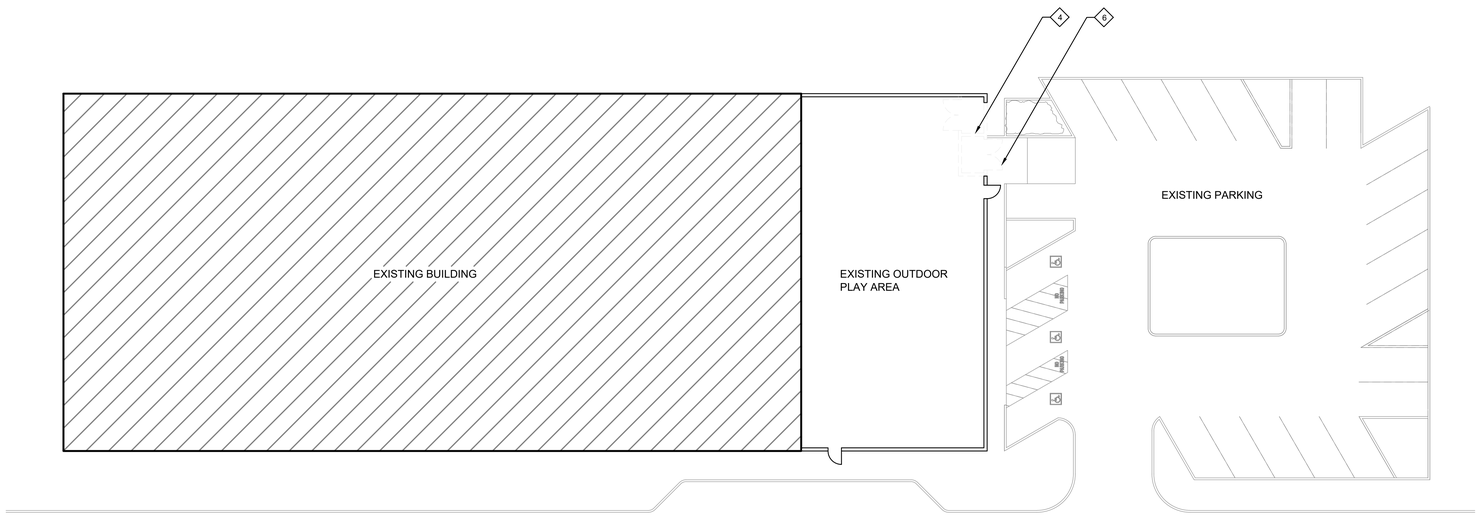
SHEET NUMBER

G1.00



1 SITE PLAN

SCALE: 1/16" = 1'-0"



2 DEMOLITION SITE PLAN

SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. INVESTIGATE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

KEY NOTES

1. NEW ELECTRICAL GENERATOR. SEE ELECTRICAL.
2. NEW SLAB ON GRADE IN NEW ENCLOSURE AREAS. PROVIDE REBAR DOWELS TO CONNECT TO EXISTING SLAB AS REQUIRED.
3. NEW ENCLOSURE CMU/PLASTER WALLS (SHADED) 9' HIGH BEHIND EXISTING WALLS. PROVIDE NEW FOUNDATION AS REQUIRED. MATCH EXISTING. PROVIDE NEW METAL ROOF OVER TRASH BIN AND STORAGE AREA ONLY.
4. REMOVE EXISTING WALLS, DOORS, AND ROOF.
5. EXISTING PLANTER AND PLANT TO REMAIN.
6. REMOVE AND RE-INSTALL EXISTING TRASH BIN METAL GATES.

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SHEET TITLE

SITE PLAN

SCALE

Scale: AS INDICATED

SHEET NUMBER

A1.00

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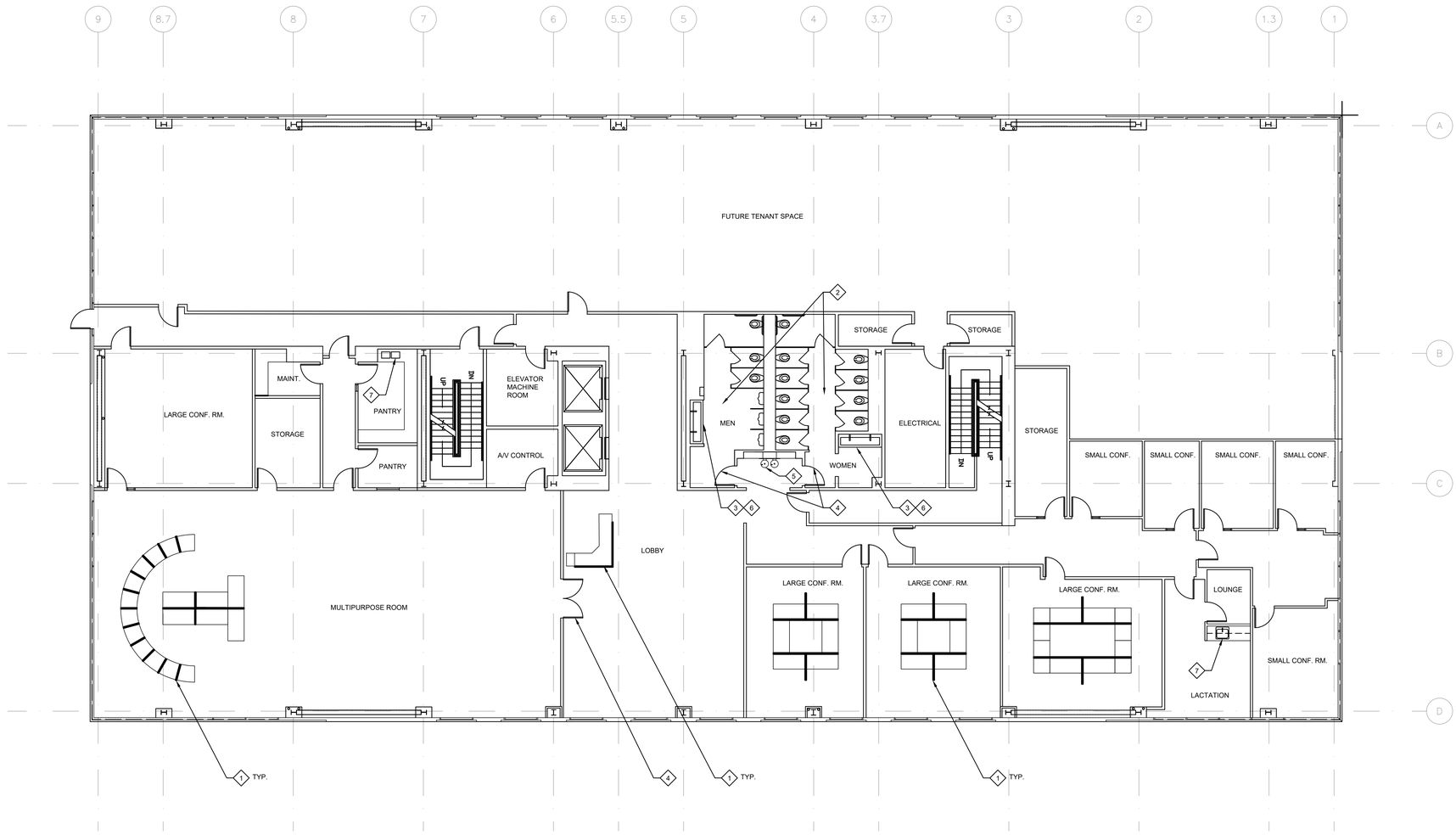
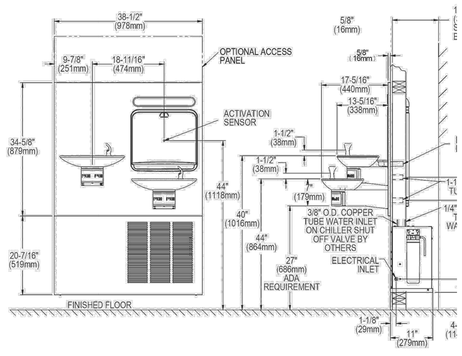


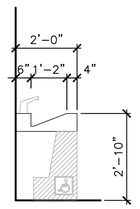
1 FIRST FLOOR REMODEL PLAN

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



3 DRINKING FOUNTAIN DETAILS

SCALE: NONE



2 TROUGH SINK SECTION

SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. ALL EXISTING WALLS, CEILINGS, AND FURNITURE TO REMAIN.

KEY NOTES

1. PLASTIC SHIELD MOUNTED ON EXISTING CUBICLE PARTITIONS - PLATFORM DIVIDER SCREENS BY UNISOURCE SOLUTIONS (UNISOURCESIT.COM, 562-949-1111) OR APPROVED EQUAL. SHOWN WITH DARK LINE " ▬▬▬ " , TYP.
2. REPLACE EXISTING MANUAL LAVATORY FAUCETS AND TOILET/URINAL FLUSH VALVES WITH TOUCH-FREE AUTOMATIC VALVES. SEE PLUMBING.
3. REPLACE EXISTING MANUAL LAVATORY SOAP DISPENSERS WITH TOUCH-FREE AUTOMATIC SOAP DISPENSERS. SEE PLUMB.
4. CONVERT EXISTING DOORS TO AUTOMATICALLY OPERATED DOORS. INSTALL AUTOMATIC DOOR OPERATOR ON EXISTING DOOR TO BE ACTIVATED WITH WALL-MOUNTED WAVE-TO-OPEN SWITCH. MODIFY EXISTING HM DOOR FRAME TO ACCEPT ELECTRIC STRIKE FOR AUTOMATIC DOOR OPERATOR.
5. REPLACE EXISTING MANUAL DRINKING FOUNTAIN WITH TOUCH-FREE AUTOMATIC DRINKING FOUNTAIN. SEE 3/A2.01 FOR DETAIL. SEE PLUMBING.
6. REPLACE EXISTING COUNTERTOP WITH TROUGH TYPE SOLID SURFACE COUNTERTOP. SEE DETAIL 2/A2.01.
7. REPLACE EXISTING MANUAL KITCHEN FAUCETS WITH TOUCH-FREE AUTOMATIC FAUCETS. SEE PLUMBING.

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FIRST 5 LA CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

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SHEET TITLE

FIRST FLOOR REMODEL PLAN

SCALE

Scale: AS INDICATED

SHEET NUMBER

A2.01

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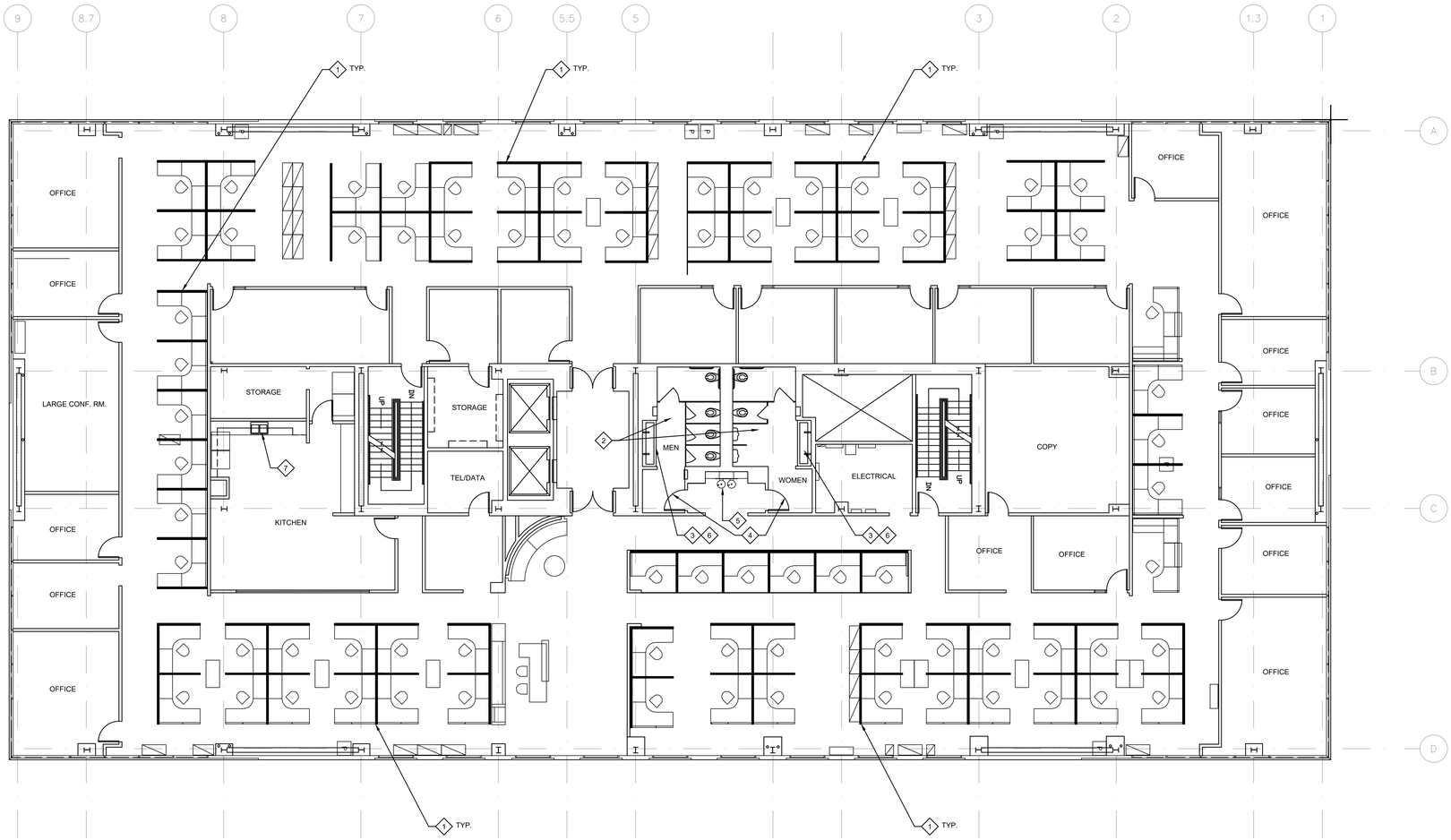

1 SECOND FLOOR REMODEL PLAN

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

GENERAL NOTES

1. ALL EXISTING WALLS, CEILINGS, AND FURNITURE TO REMAIN.

KEY NOTES

1. PLASTIC SHIELD MOUNTED ON EXISTING CUBICLE PARTITIONS - PLATFORM DIVIDER SCREENS BY UNISOURCE SOLUTIONS (UNISOURCESIT.COM, 562-949-1111) OR APPROVED EQUAL. SHOWN WITH DARK LINE " ——— " , TYP.
2. REPLACE EXISTING MANUAL LAVATORY FAUCETS AND TOILET/URINAL FLUSH VALVES WITH TOUCH-FREE AUTOMATIC VALVES. SEE PLUMBING.
3. REPLACE EXISTING MANUAL LAVATORY SOAP DISPENSERS WITH TOUCH-FREE AUTOMATIC SOAP DISPENSERS. SEE PLUMB.
4. CONVERT EXISTING DOORS TO AUTOMATICALLY OPERATED DOORS. INSTALL AUTOMATIC DOOR OPERATOR ON EXISTING DOOR TO BE ACTIVATED WITH WALL-MOUNTED WAVE-TO-OPEN SWITCH. MODIFY EXISTING HM DOOR FRAME TO ACCEPT ELECTRIC STRIKE FOR AUTOMATIC DOOR OPERATOR.
5. REPLACE EXISTING MANUAL DRINKING FOUNTAIN WITH TOUCH-FREE AUTOMATIC DRINKING FOUNTAIN. SEE 3/A2.01 FOR DETAIL. SEE PLUMBING.
6. REPLACE EXISTING COUNTERTOP WITH TROUGH TYPE SOLID SURFACE COUNTERTOP. SEE DETAIL 2/A2.01
7. REPLACE EXISTING MANUAL KITCHEN FAUCETS WITH TOUCH-FREE AUTOMATIC FAUCETS. SEE PLUMBING.

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SHEET TITLE

SECOND FLOOR REMODEL PLAN

SCALE

Scale: AS INDICATED

SHEET NUMBER

A2.02

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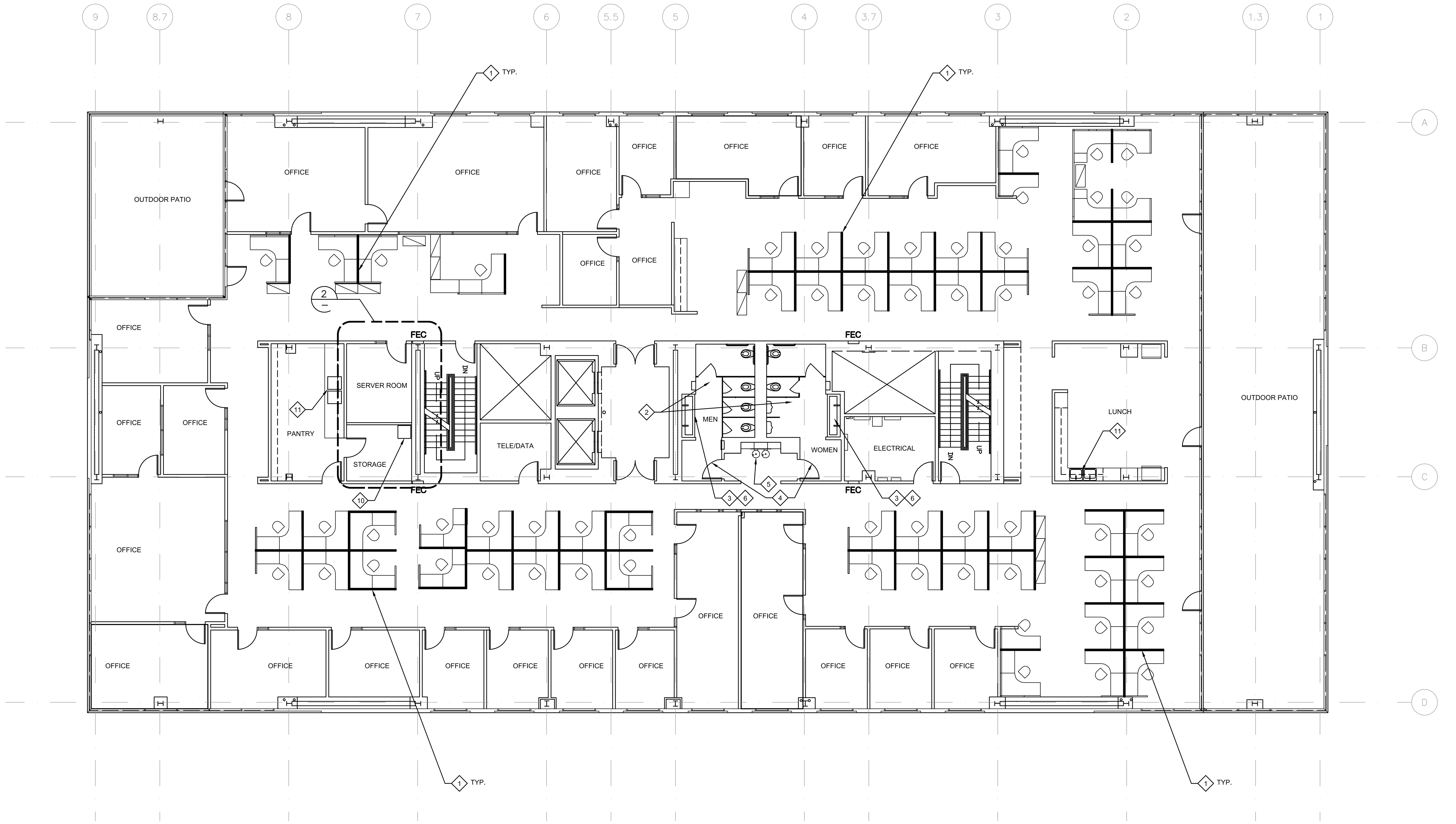
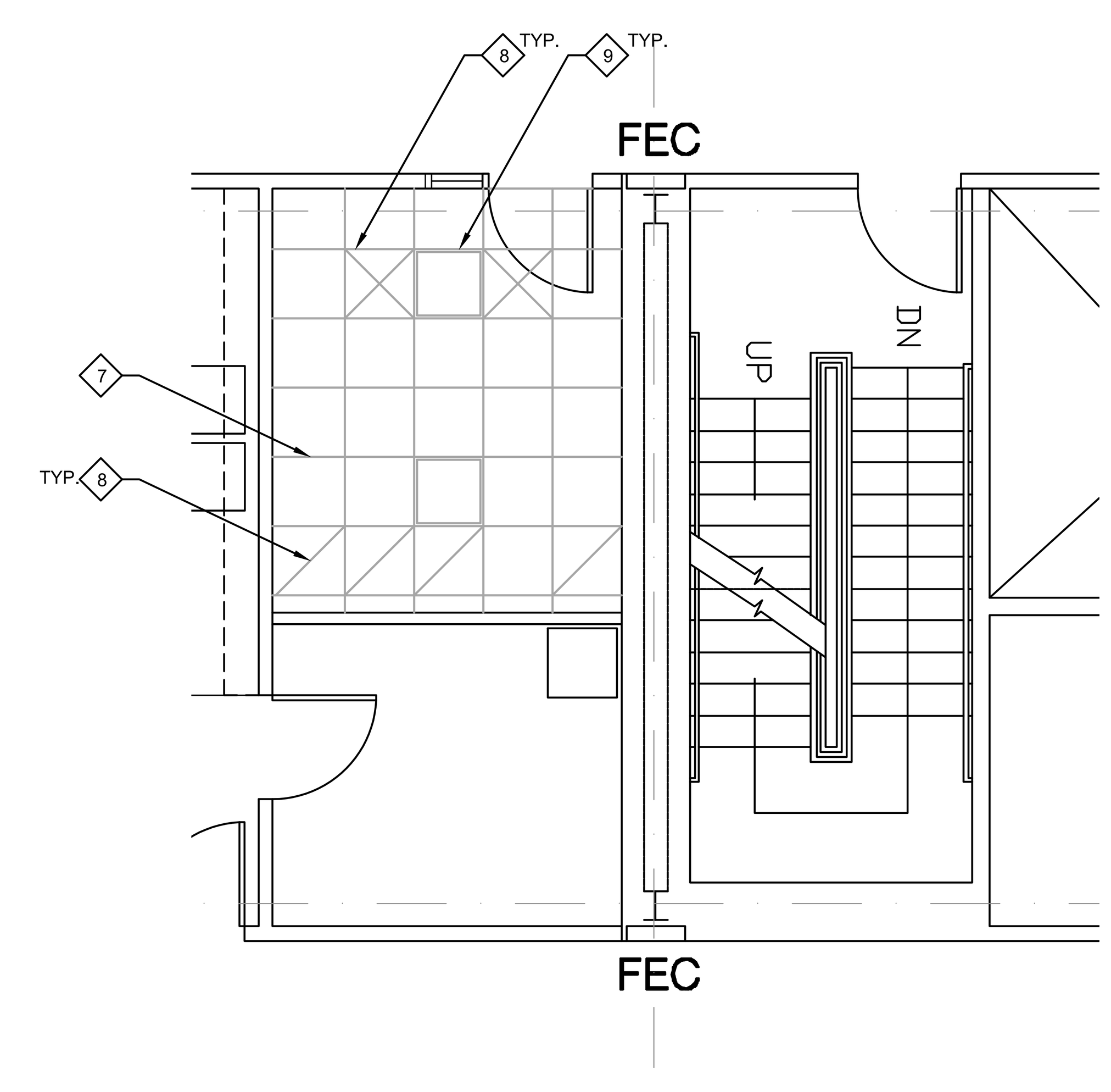


1 THIRD FLOOR REMODEL PLAN

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



2 SERVER ROOM CEILING PLAN

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

GENERAL NOTES

1. ALL EXISTING WALLS, CEILINGS, AND FURNITURE TO REMAIN.

KEY NOTES

1. PLASTIC SHIELD MOUNTED ON EXISTING CUBICLE PARTITIONS - PLATFORM DIVIDER SCREENS BY UNISOURCE SOLUTIONS (UNISOURCESIT.COM, 562-949-1111) OR APPROVED EQUAL. SHOWN WITH DARK LINE " ▬▬▬ " , TYP.
2. REPLACE EXISTING MANUAL LAVATORY FAUCETS AND TOILET/URINAL FLUSH VALVES WITH TOUCH-FREE AUTOMATIC VALVES. SEE PLUMBING.
3. REPLACE EXISTING MANUAL LAVATORY SOAP DISPENSERS WITH TOUCH-FREE AUTOMATIC SOAP DISPENSERS. SEE PLUMB.
4. CONVERT EXISTING DOORS TO AUTOMATICALLY OPERATED DOORS. INSTALL AUTOMATIC DOOR OPERATOR ON EXISTING DOOR TO BE ACTIVATED WITH WALL-MOUNTED WAVE-TO-OPEN SWITCH. MODIFY EXISTING HM DOOR FRAME TO ACCEPT ELECTRIC STRIKE FOR AUTOMATIC DOOR OPERATOR.
5. REPLACE EXISTING MANUAL DRINKING FOUNTAIN WITH TOUCH-FREE AUTOMATIC DRINKING FOUNTAIN. SEE 3/A2.01 FOR DETAILS. SEE PLUMBING.
6. REPLACE EXISTING COUNTERTOP WITH TROUGH TYPE SOLID SURFACE COUNTERTOP. SEE DETAIL 2/A2.01
7. EXISTING T-BAR CEILING TO REMAIN.
8. REMOVE EXISTING SUPPLY & RETURN REGISTERS AND INSTALL CEILING TILE, TYP. SEE MECHANICAL FOR ADDITIONAL INFO.
9. EXISTING LIGHT TO REMAIN.
10. PRE-ACTION FIRE SPRINKLER VALVES. SEE PLUMB.
11. REPLACE EXISTING MANUAL KITCHEN FAUCETS WITH TOUCH-FREE AUTOMATIC FAUCETS. SEE PLUMBING.

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Issue	**100% DD BRIDGING DOCUMENT**
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Drawn	**HK**
Checked	**CR**
Approved	**CR**

SHEET TITLE

THIRD FLOOR REMODEL PLAN

SERVER ROOM CEILING PLAN

SCALE

Scale: AS INDICATED

SHEET NUMBER

A2.03

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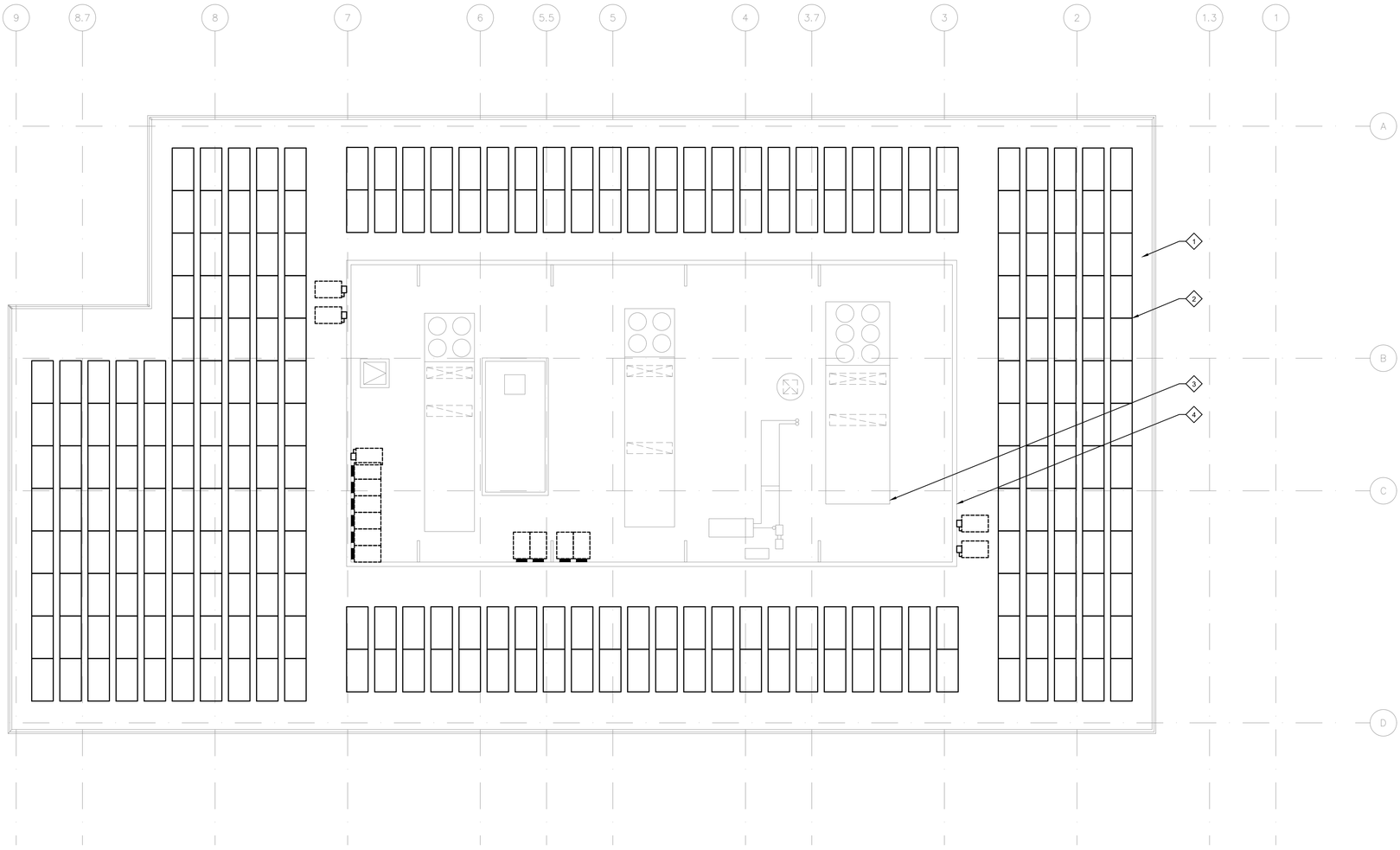

1 ROOF REMODEL PLAN

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

GENERAL NOTES

KEY NOTES

1. REPLACE EXISTING MULTI-LAYER BUILT-UP WITH CAP SHEET ROOF.
2. NEW PHOTO VOLTAIC PANELS. SEE ELECTRICAL PANEL INFO. & STRUCTURAL FOR PANEL SUPPORT INFO.
3. REPLACE EXISTING HVAC UNITS (3). SEE MECHANICAL.
4. EXISTING MECHANICAL EQUIPMENT SCREEN TO REMAIN.

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Drawn	**HK**
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Approved	**CR**

SHEET TITLE
ROOF REMODEL PLAN

SCALE
Scale: AS INDICATED

SHEET NUMBER
A2.04

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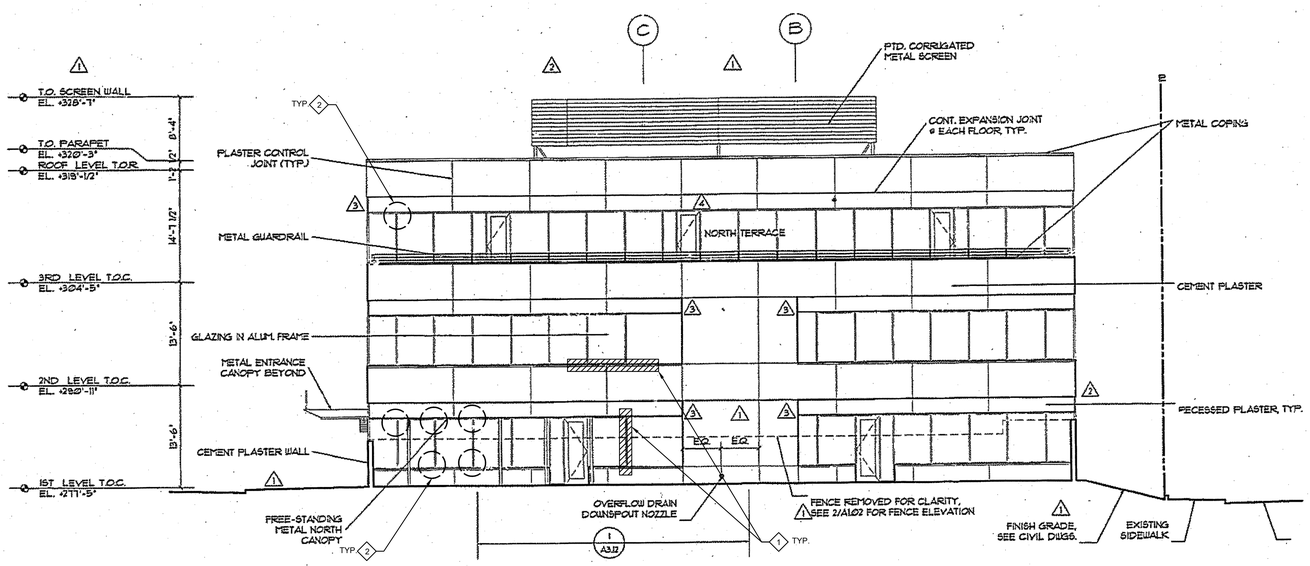
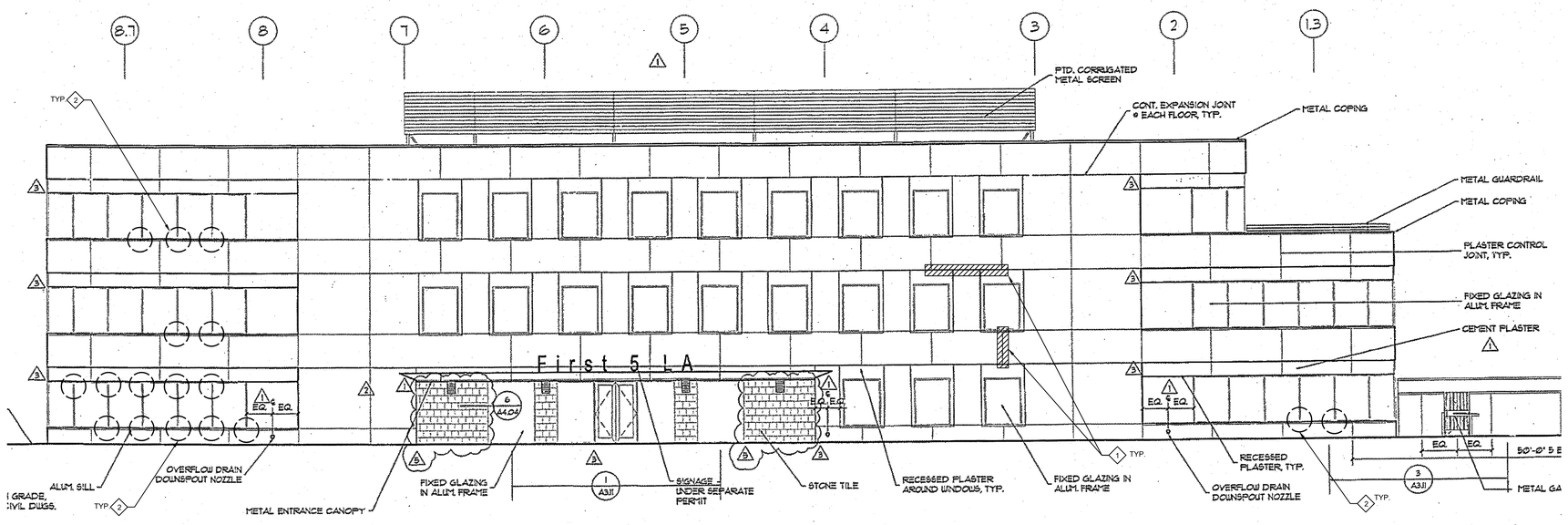


2 NORTH ELEVATION

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



1 EAST ELEVATION

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

00000000.00 1/3/2017 1:50:23 PM Project Name

GENERAL NOTES

KEY NOTES

1. PATCH AND SEAL CRACKS AT SMOOTH PLASTER SURFACE - VARIOUS LOCATIONS. FIELD VERIFY ALL LOCATIONS. PAINT REPAIRED PANELS TO MATCH EXISTING. SEE PLASTER CRACK PHOTOS.
2. REPLACE EXTERIOR GLAZING GASKETS AT THE WINDOW DUE TO SHRINKAGE AT THE CORNERS. SEE WINDOW PHOTOS ON A3.02.

PHOTOS - PLASTER CRACKS

PHOTO -1

PHOTO -2

PHOTO -3

PHOTO -4

PHOTO -5

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SHEET TITLE

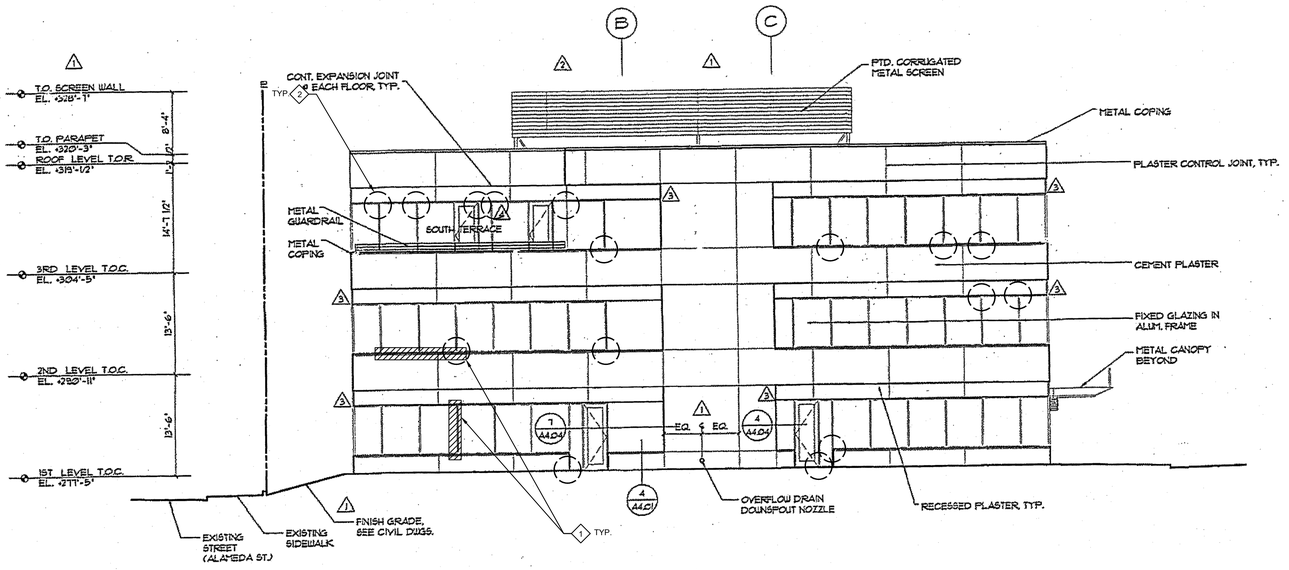
EXTERIOR ELEVATIONS

SCALE

Scale: AS INDICATED

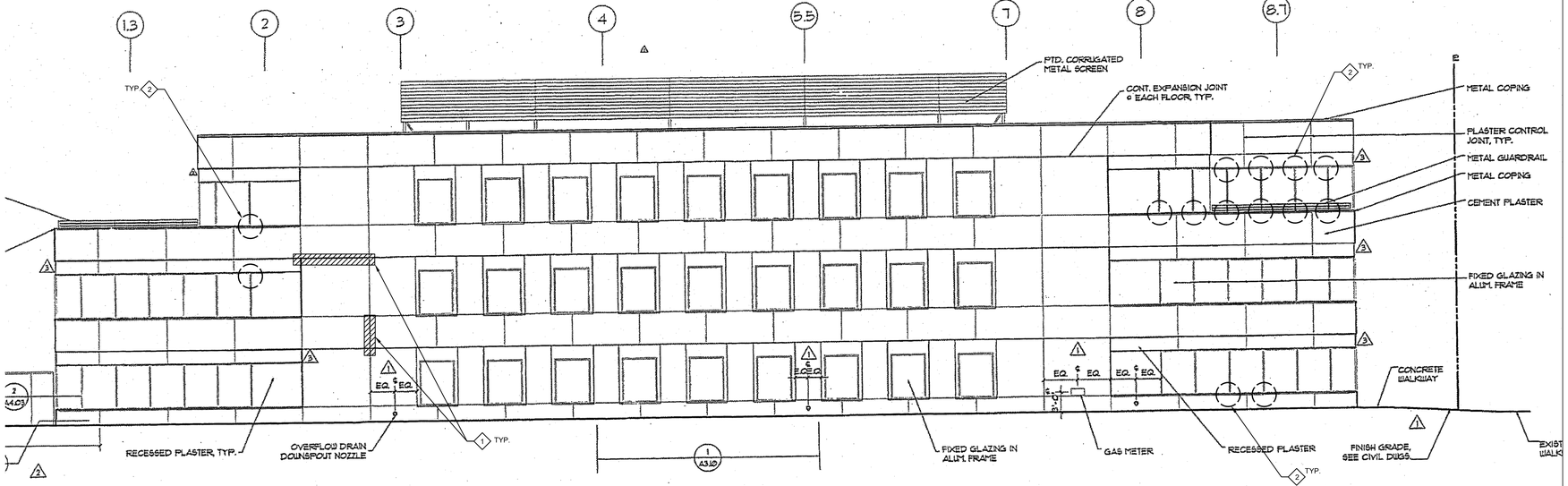
SHEET NUMBER

A3.01



2 SOUTH ELEVATION

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



1 WEST ELEVATION

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

GENERAL NOTES

KEY NOTES

1. PATCH AND SEAL CRACKS AT SMOOTH PLASTER SURFACE - VARIOUS LOCATIONS. FIELD VERIFY ALL LOCATIONS. PAINT REPAIRED PANELS TO MATCH EXISTING. SEE PLASTER CRACK PHOTOS ON A3.01.
2. REPLACE EXTERIOR GLAZING GASKETS AT THE WINDOW DUE TO SHRINKAGE AT THE CORNERS. SEE WINDOW PHOTOS.

PHOTOS - WINDOWS

PHOTO -1

PHOTO -1

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SHEET TITLE

EXTERIOR ELEVATIONS

SCALE

Scale: AS INDICATED

SHEET NUMBER

A3.02

00000000.00 1/3/2017 1:50:23 PM Project Name

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
IBT	IBT	26 05 26	INTERSYSTEM BONDING TERMINATION
E / E	ECONN	26 05 33	ELECTRICAL CONNECTION
J / J	JB	26 05 33	JUNCTION BOX
M	KWM	26 09 13	METER
	PANEL '###'	26 24 16	PANELBOARD - RECESS MOUNT
	MX-#/MS-#/FCS-#	26 24 19	MANUAL SWITCH / STARTER / COMBINATION STARTER
	DS-#	26 28 16	DISCONNECT
	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V
	REC-SIM-L530R	26 27 26	LOCKING TYPE RECEPTACLE, 125V
	REC-SIM-L630R	26 27 26	RECEPTACLE, LOCKING L6-30R, 250V
	FB-1	26 27 26	FLOOR BOX - DUPLEX RECEPTACLE
	FB-2	26 27 26	FLOOR BOX - DUAL COMPARTMENT
C	REC-CLOCK	26 27 26	CLOCK RECEPTACLE
	DS-#	26 28 16	MANUAL SWITCH
			CIRCUIT CONTINUATION

LIGHTING SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
S	SW-1P	26 09 33	SWITCH - SINGLE POLE
LS	SW-LS-D	26 09 33	WIRELESS DIMMING DAYLIGHT SENSOR
OC P	SW-OC-P-P	26 09 33	WIRELESS OCCUPANCY SENSOR - PIR
R		26 09 33	CEILING MOUNTED LIGHTING RELAY PACK
#B		26 09 33	WIRELESS SWITCH LIGHTING CONTROL STATION
#RL		26 09 33	WIRELESS DIMMING LIGHTING CONTROL STATION
D O		26 09 33	STAND ALONE OCCUPANCY WALL DIMMER
	F#	26 51 00	LINEAR LUMINAIRES
	F#	26 51 00	TROFFER
	F#	26 51 00	DOWNLIGHT LUMINAIRE
	X#	26 51 00	SINGLE FACE EXIT SIGN
	X#	26 51 00	DOUBLE FACE EXIT SIGN

LUMINAIRE SYMBOL KEY

SYMBOL:	DESCRIPTION:
	NORMAL BRANCH LUMINAIRE
	EMERGENCY [LIFE SAFETY] BRANCH LUMINAIRE [UNSWITCHED FOR NIGHT LIGHT, UNLESS NOTED "SE"]

ELECTRICAL SYMBOL LIST

SYMBOL:	DESCRIPTION:
SD	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED
AV	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE - WALL MOUNTED
V	FIRE ALARM VISUAL NOTIFICATION DEVICE - WALL MOUNTED
F	PULL STATION

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:	RELATED SPECIFICATION
ATS-#	AUTOMATIC TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE	26 36 00
BAT-#	BATTERY RACK	26 32 13
BC-#	GENERATOR BATTERY CHARGER	26 32 13
BCS-#	BUS PLUG COMBINATION STARTER	26 25 00
C-#	GENERAL PURPOSE CONTACTOR	26 28 21
CB-#	CIRCUIT BREAKER, REFER TO DISCONNECT AND STARTER SCHEDULE	26 14 19
CGA-#	FIRE ALARM - GRAPHIC ANNUNCIATOR	28 31 00
CMD#	EMERGENCY COMMUNICATION MESSAGE DISPLAY	28 31 00
DP-#	DISTRIBUTION PANEL	26 24 16
DS-#	DISCONNECT SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 28 16
DT-#	GENERATOR DAY TANK	26 32 13
DTR-#	TRANSFORMER - DISTRIBUTION TYPE	26 12 19 26 12 13 26 12 21
F#	LUMINAIRE TYPE	26 51 00
FAA-#	FIRE ALARM - ANNUNCIATOR	28 31 00
FAP-#	FIRE ALARM - CONTROL PANEL	28 31 00
FB-#	FLOOR BOX	26 27 26
FCC-#	FIRE ALARM - COMMAND CENTER	28 31 00
FCS-#	FUSIBLE COMBINATION STARTER, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
FDS-#	FUSIBLE DISCONNECT SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 28 16
GAP-#	GENERATOR ANNUNCIATOR PANEL	26 32 13
GB-#	GROUND BUS	26 05 26
GCC-#	TEMP. GENERATOR CONNECTION CABINET	26 32 13
GCP-#	GENERATOR CONTROL PANEL	26 32 13
GEN-#	GENERATOR	26 32 13
GPS-#	GENERATOR PARALLELING AND DISTRIBUTION SWITCHBOARD	26 24 14 26 13 35
GRR-#	GENERATOR REMOTE RADIATOR	26 32 13
HH-#	HANDHOLE	26 05 33
HT-#	HEAT TAPE	26 05 17
INV-#	LIGHTING INVERTER	26 52 00
IPC-#	INTEGRATED POWER CENTER	26 24 22
IPP-#	ISOLATED POWER PANEL	26 24 21
LC-#	LIGHTING CONTACTOR, REFER TO CONTACTOR SCHEDULE	26 28 31
LCP-#	LIGHTING CONTROL PANEL, REFER TO CONTROL MATRIX	26 09 33
LCS-#	LIGHTING CONTROL STATION	26 09 33
LOC-#	LOCAL OPERATING CONSOLE	28 31 00
M-#	METER DISTRIBUTION CENTER	26 20 00
MC-#	EXTERIOR MOUNTED METERING CABINET	26 20 00
MCC-#	MOTOR CONTROL CENTER, REFER TO MOTOR CONTROL SCHEDULE	26 14 19
MH-#	MANHOLE	26 05 37
MPC-#	PACKAGED POWER CENTER	26 24 23
MS-#	MANUAL STARTER, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
MTS-#	MANUAL TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE	26 36 00
MVSG-#	MEDIUM VOLTAGE SWITCHGEAR	26 13 13 26 13 14 26 13 34
MX-#	MANUAL SWITCH, REFER TO DISCONNECT AND STARTER SCHEDULE	26 24 19
NEP-#	FIRE ALARM - EXTENDER PANEL	28 31 00
PP-#	POWER POLE	26 27 23
R-#	RELAY	26 09 39
REC-#	RECEPTACLE - SPECIAL USE	26 27 26
SB-#	SWITCHBOARD	26 24 13
SCP-#	FIREFIGHTERS SMOKE CONTROL PANEL	28 31 00
SG-#	SWITCHGEAR	26 23 00
SPD-#	SURGE PROTECTION DEVICE	26 43 00
TC-#	TIME SWITCH	26 09 33
TR-#	TRANSFORMER - DRY TYPE, REFER TO TRANSFORMER SCHEDULE	26 22 00
UPS-#	UNINTERRUPTIBLE POWER SUPPLY	26 33 53
WB-#	WALL BOX	26 05 33
WD-#	WALL DUCT	26 05 38
WM-#	MULTI-OUTLET SYSTEM	26 05 35
WW-#	WIREWAY	26 05 35

ELECTRICAL GENERAL NOTES:

1. ##-### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
2. (L###) INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E400.
3. "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.
4. "SE" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY CIRCUIT UPON LOSS OF POWER.
5. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.

LUMINAIRE KEY:

LUMINAIRE

F# = FIXTURE TAG
1 = CIRCUIT NUMBER
Z# = CONTROL ZONE DESIGNATION
NL = SUBSCRIPT (IF APPLICABLE)

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

DEVICE KEY:

DEVICE

A = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C MOUNT AT CEILING

LINE TYPE KEY:

- NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)
- NEW WORK UNDERFLOOR OR UNDERGROUND BY THIS CONTRACTOR (DARK LONG DASHED LINE)
- NEW WORK BY OTHERS AND/OR EXISTING TO REMAIN (LIGHT SOLID LINE)
- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK SHORT DASHED LINE)

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
E.C.	ELECTRICAL SUBCONTRACTOR
D.B.	DESIGN BUILDER
M.C.	MECHANICAL SUBCONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

ELECTRICAL SCOPE OF WORK:

THIS IS A 45,000 SF OFFICE BUILDING FOR FIRST 5 LA IN LOS ANGELES, CALIFORNIA. NEW ELECTRICAL DESIGN INCLUDES:

- NEW SOLAR PV SYSTEM
- NEW UPS FOR 1ST AND 3RD FLOOR IT EQUIPMENT
- POWER TO UV LIGHTS FOR AC UNITS
- POWER TO IT ROOM COOLING, ALL FLOORS
- POWER TO AUTOMATIC DOORS, 1ST FLOOR COUNCIL ROOM, RESTROOMS ON ALL FLOORS
- POWER TO AV EQUIPMENT IN FIRST FLOOR
- EMERGENCY GENERATOR FOR IT EQUIPMENT LOADS, IT COOLING, SECURITY ACCESS AND EGRESS LIGHTING

ELECTRICAL SHEET INDEX

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED.
3. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE. NEUTRAL CONDUCTORS SHALL HAVE COLOR CODED STRIPE MATCHING COLOR OF PHASE CONDUCTOR.
4. CIRCUITS SERVING EMERGENCY AND EXIT LUMINAIRES SHALL EACH BE RUN IN SEPARATE RACEWAYS FROM ALL OTHER CIRCUITS.
5. A MINIMUM #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS IN EACH HOMERUN.
6. ALL JUNCTION BOXES IN PLENUM AIR SPACES SHALL CONTAIN NO HOLES AND EMT CONDUITS SHALL BE PROVIDED WITH GASKETED FITTINGS.
7. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, AND IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
8. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
9. FLUSH MOUNT ALL TOGGLE SWITCHES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. TOGGLE SWITCHES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
10. FLUSH MOUNT ALL DUPLEX RECEPTACLES AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
11. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE CENTER OF THE DEVICE.
12. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
13. ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
14. ALL FINAL ELECTRICAL CONNECTIONS TO MOTORS SHALL BE MADE WITH FLEXIBLE METAL CONDUIT. USE LIQUIDTIGHT CONDUIT AND FITTINGS WHERE SUBJECT TO MOISTURE. ROUTE GROUND WIRE FROM CIRCUIT GROUND TO MOTOR GROUND THROUGH FLEXIBLE CONDUIT. FLEXIBLE CONDUIT SHALL NOT EXCEED 6' IN LENGTH.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
16. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DETECTORS AND/OR SPEAKERS WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
17. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
18. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
19. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS.
20. FOR ADDITIONAL INFORMATION, OBTAIN BUILDING STANDARDS FROM LANDLORD AND COORDINATE WITH G.C. ACCORDINGLY.

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

2019	BUILDING STANDARD ADMINISTRATIVE CODE (CAC)
2019	CALIFORNIA BUILDING CODE (CBC)
2019	CALIFORNIA ELECTRICAL CODE (CEC)
2019	CALIFORNIA MECHANICAL CODE (CMC)
2019	CALIFORNIA PLUMBING CODE (CPC)
2019	CALIFORNIA FIRE CODE (CFC)
2019	CALIFORNIA ENERGY CODE
2019	NFPA 13 FIRE SPRINKLERS SYSTEMS
2019	NFPA 72 NATIONAL FIRE ALARM CODE
2010	ADA STANDARDS

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REFERENCE SCALE IN INCHES
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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**MATTHEW GECOSO**
Checked	**ARIEL MARIANO**
Approved	**ARIEL MARIANO**

SHEET TITLE

ELECTRICAL SYMBOLS, ABBREVIATION, NOTES AND SHEET INDEX

SCALE

Scale: NONE

SHEET NUMBER

E0.01

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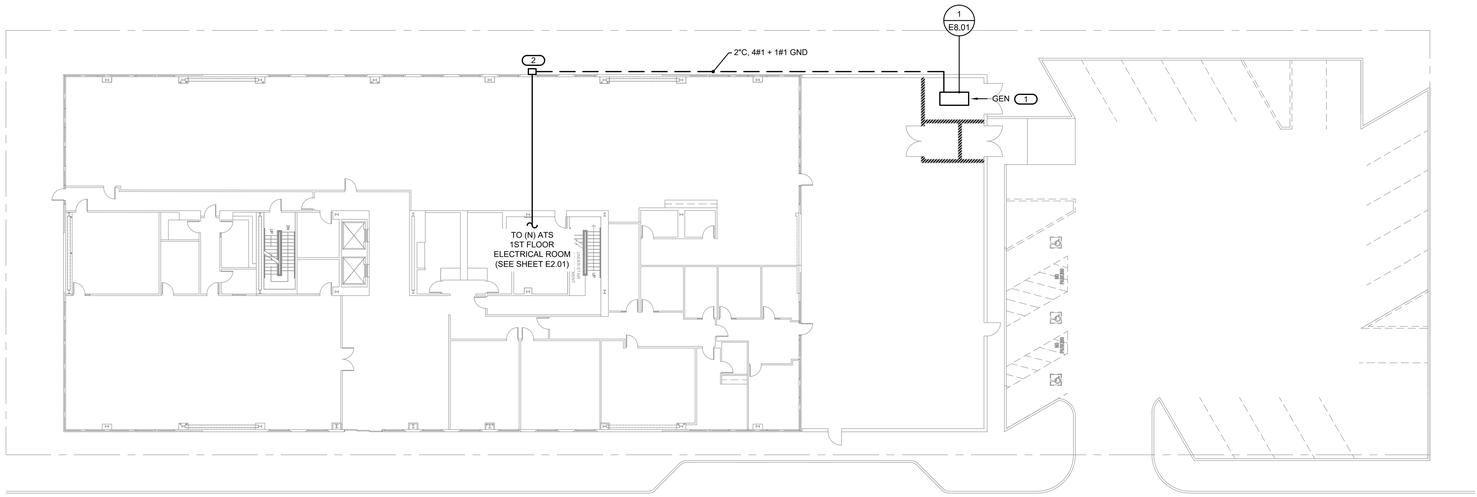

1 ELECTRICAL SITE REMODEL PLAN - POWER

SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. COORDINATE ELECTRICAL WORK WITH OWNER REPRESENTATIVE AND ALL OTHER DISCIPLINES PRIOR TO STARTING CONSTRUCTION.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLING. MAINTAIN MINIMUM CODE REQUIRED CLEARANCES AT ALL TIME.

KEY NOTES (#)

1. PROVIDE 60KW / 75KVA GENERATOR WITH DAY TANK, 24 HOUR SUPPLY. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
2. PROVIDE NEMA 3R PULLBOX 12"X12"X4".

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Approved	**ARIEL MARIANO**

SHEET TITLE

ELECTRICAL SITE REMODEL PLAN - POWER

SCALE

Scale: NONE

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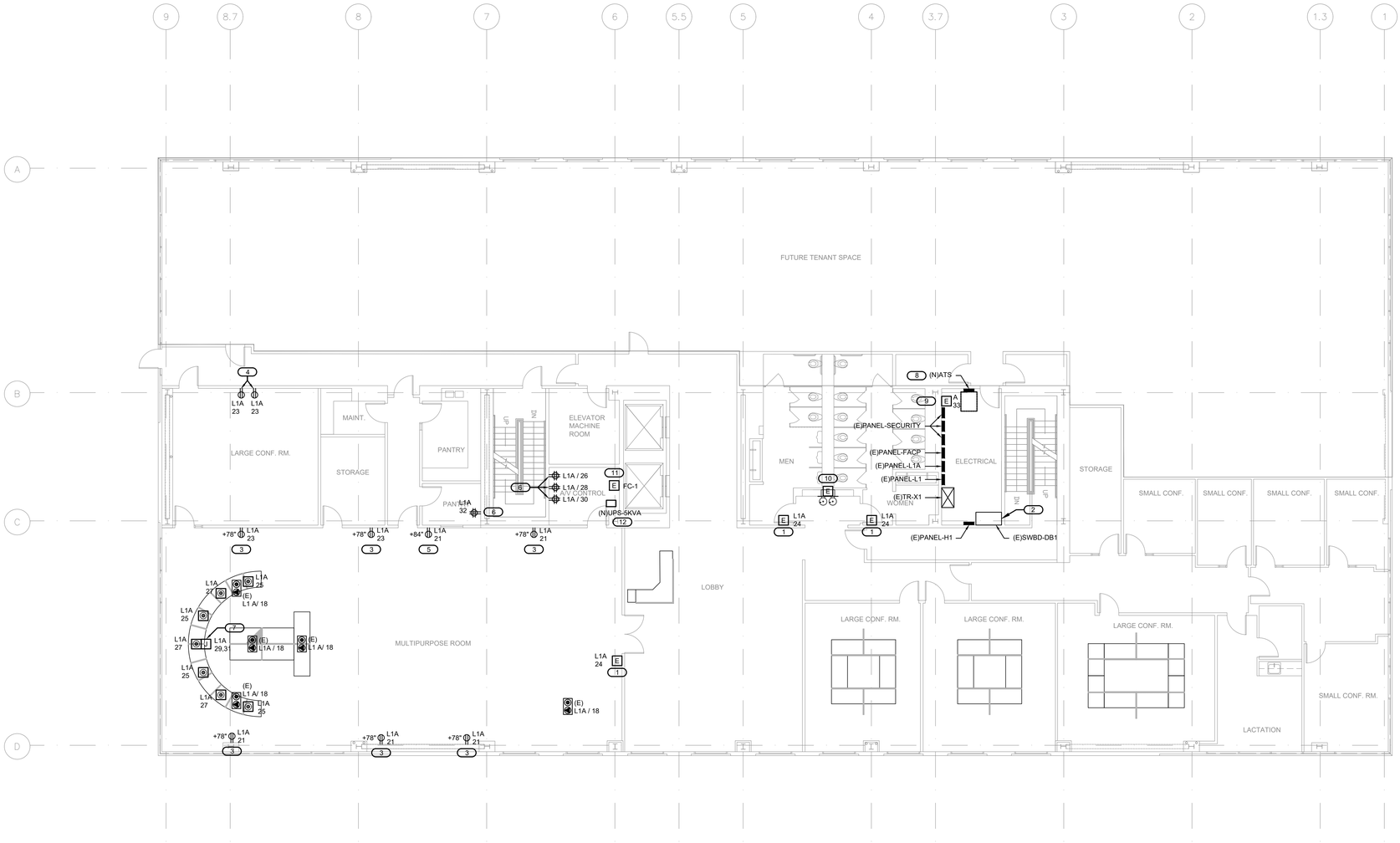

1 ELECTRICAL FIRST FLOOR REMODEL PLAN - POWER

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

GENERAL NOTES

1. COORDINATE ELECTRICAL WORK WITH OWNER REPRESENTATIVE AND ALL OTHER DISCIPLINES PRIOR TO STARTING CONSTRUCTION.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLING. MAINTAIN MINIMUM CODE REQUIRED CLEARANCES AT ALL TIME.

KEY NOTES (#)

1. PROVIDE CONNECTION TO DOOR OPERATOR. 120VAC, 3A.
2. SWITCHBOARD DB1 INTERCONNECTION WITH PV EQUIPMENT ON ROOF.
3. DUPLEX FOR AV FLAT PANEL. COORDINATE WITH TECHNOLOGY DRAWINGS FOR MOUNTING LOCATION.
4. DUPLEX IN AV FLAT PANEL BACK BOX.
5. RECEPTACLE FOR PTZ CAMERA.
6. QUAD RECEPTACLE FOR AV EQUIPMENT.
7. PROVIDE J-BOX FOR POWER TO USB PORTS MOUNTED ON TABLE, 2 USB POWER PORTS PER STATION.
8. PROVIDE ATS PANEL. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
9. INTERCEPT EXISTING FEED TO SECURITY ACCESS PANEL, RE-FEED TO EMERGENCY PANEL 'A'. PROVIDE MATCHING CONDUIT AND WIRE.
10. RECONNECT EXISTING POWER CONNECTION FOR NEW DRINKING FOUNTAIN.
11. PROVIDE HP RATED TOGGLE SWITCH FOR FAN COIL UNIT.
12. PROVIDE NEW UPS TO REPLACE EXISTING. CONFIRM EXACT SIZE REQUIREMENT WITH OWNER.

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Job Number	**19002647.00**
Drawn	**MATTHEW GECOSO**
Checked	**ARIEL MARIANO**
Approved	**ARIEL MARIANO**

SHEET TITLE

ELECTRICAL FIRST FLOOR REMODEL PLAN - POWER

SCALE

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E2.01

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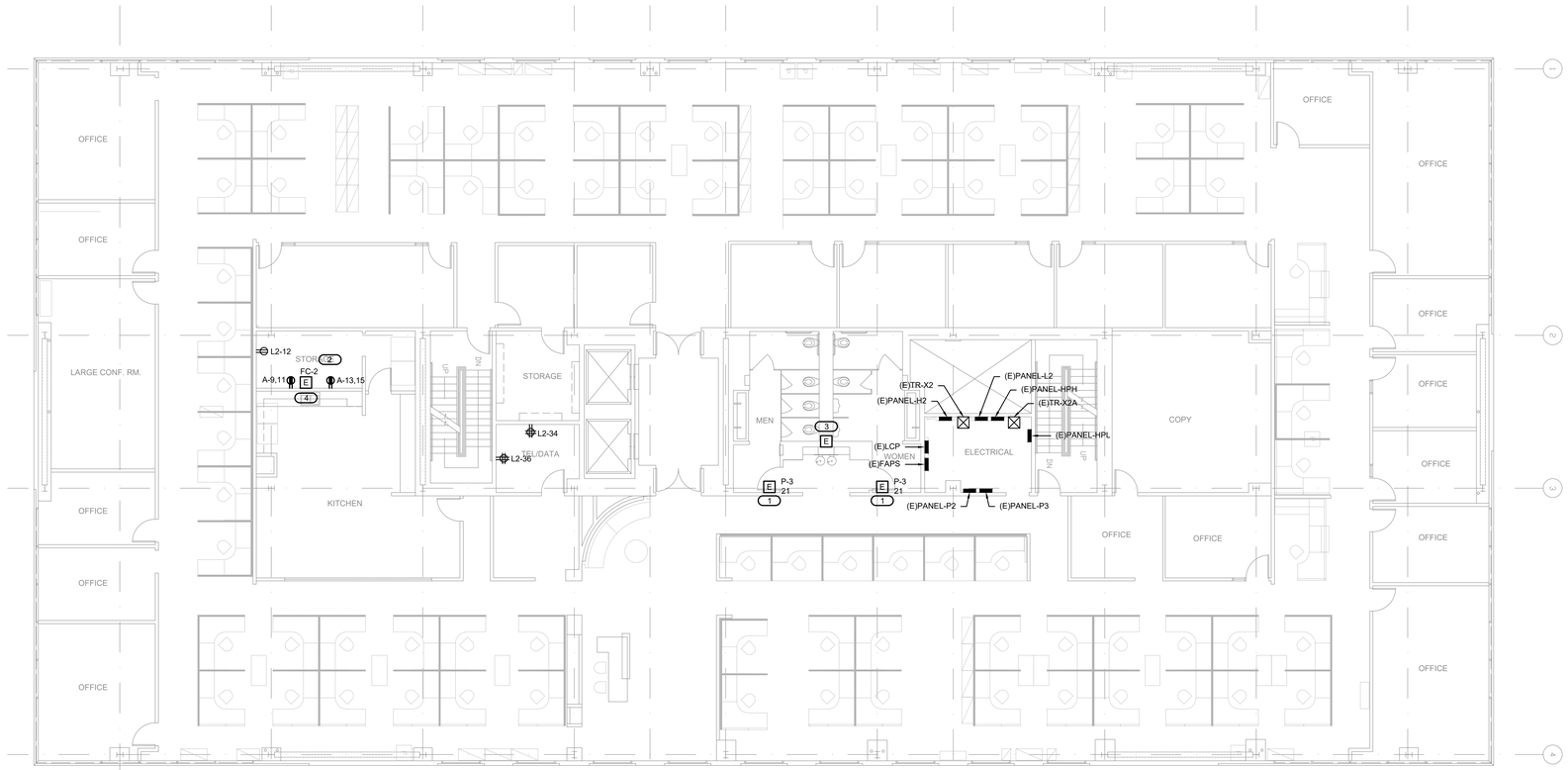

1 ELECTRICAL SECOND FLOOR REMODEL PLAN - POWER

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

GENERAL NOTES

1. COORDINATE ELECTRICAL WORK WITH OWNER REPRESENTATIVE AND ALL OTHER DISCIPLINES PRIOR TO STARTING CONSTRUCTION.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLING. MAINTAIN MINIMUM CODE REQUIRED CLEARANCES AT ALL TIME.

KEY NOTES (#)

1. PROVIDE CONNECTION TO DOOR OPERATOR. 120VAC, 3A.
2. EXISTING IT EQUIPMENT OUTLETS TO BE ON EMERGENCY. INTERCEPT EXISTING FEEDER, PROVIDE NEW J-BOX AND EXTEND TO INDICATED EMERGENCY PANEL. NEW WIRES AND CONDUIT TO MATCH WITH EXISTING.
3. RECONNECT EXISTING POWER CONNECTION FOR NEW DRINKING FOUNTAIN.
4. PROVIDE HP RATED TOGGLE SWITCH FOR FAN COIL UNIT.

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Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**MATTHEW GECOSO**
Checked	**ARIEL MARIANO**
Approved	**ARIEL MARIANO**

SHEET TITLE

ELECTRICAL SECOND FLOOR REMODEL PLAN - POWER

SCALE

Scale: AS INDICATED

SHEET NUMBER

E2.02

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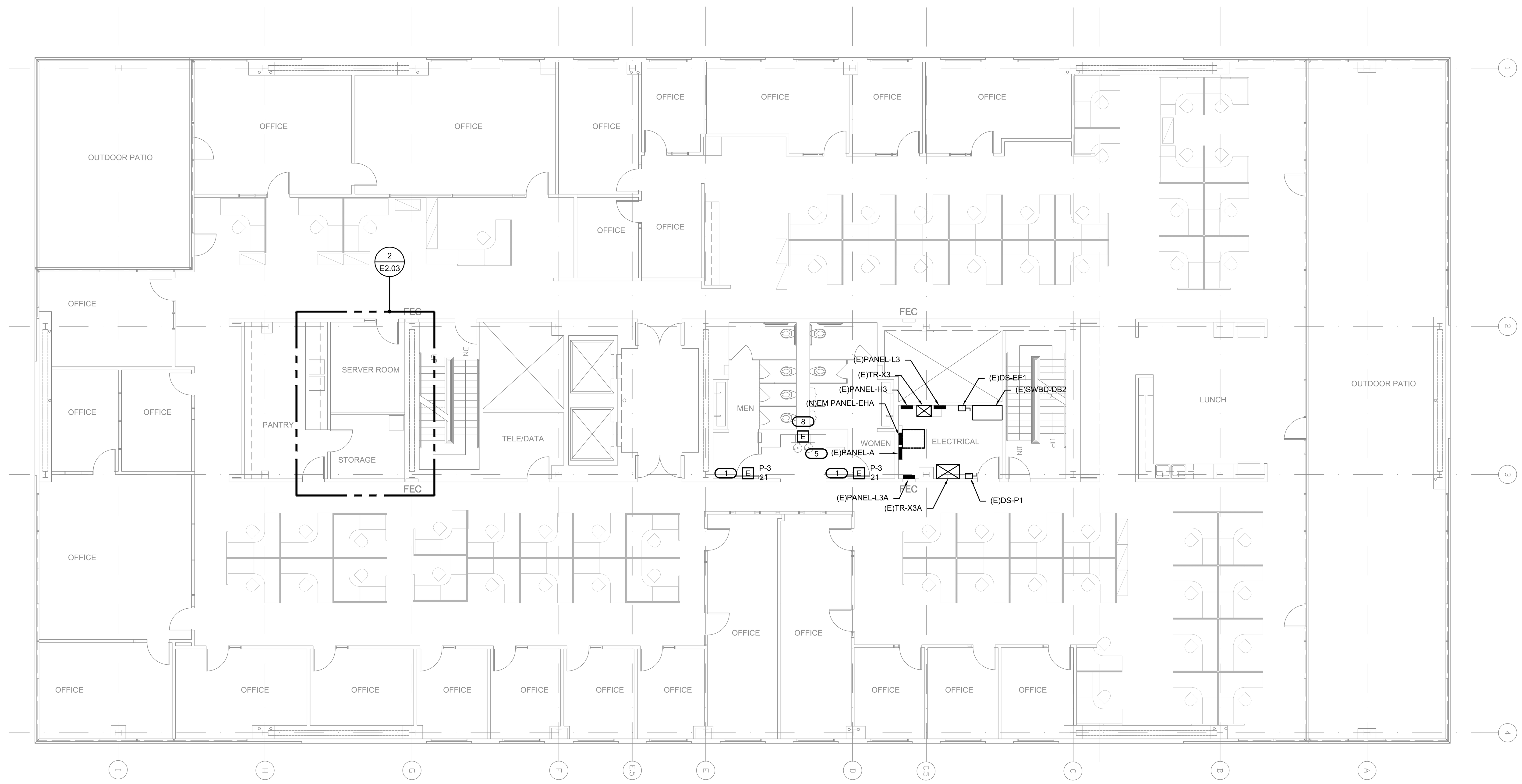
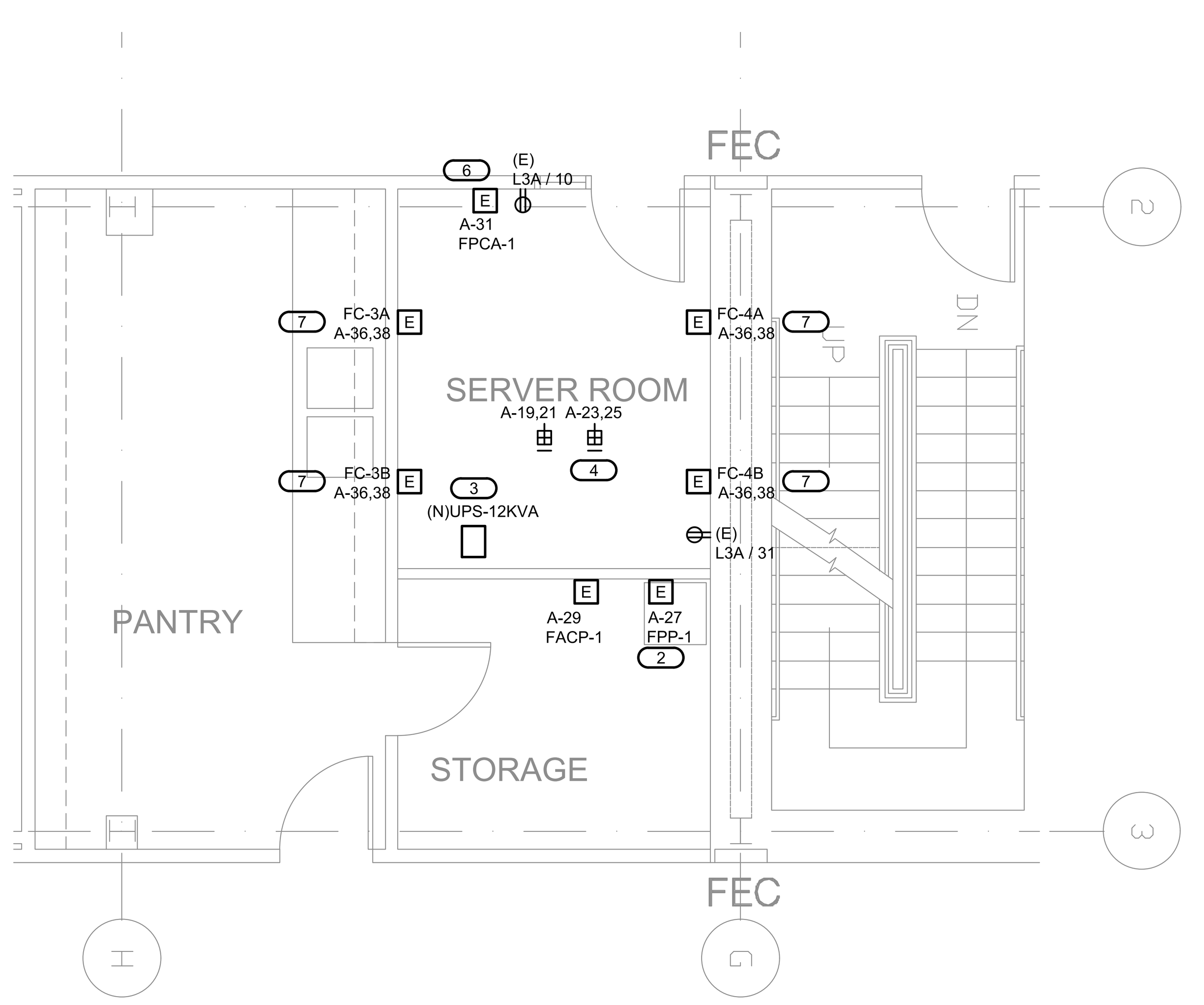


1 ELECTRICAL THIRD FLOOR REMODEL PLAN - POWER

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



2 ELECTRICAL THIRD FLOOR ENLARGED REMODEL PLAN

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

0000000.00 1/3/2017 1:50:23 PM **Project Name**

GENERAL NOTES

1. COORDINATE ELECTRICAL WORK WITH OWNER REPRESENTATIVE AND ALL OTHER DISCIPLINES PRIOR TO STARTING CONSTRUCTION.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLING. MAINTAIN MINIMUM CODE REQUIRED CLEARANCES AT ALL TIME.

KEY NOTES (#)

1. PROVIDE CONNECTION TO DOOR OPERATOR, 120VAC, 3A.
2. PROVIDE CONNECTION TO PRE-ACTION FA SYSTEM. 120VAC.
3. PROVIDE NEW UPS TO REPLACE EXISTING. CONFIRM EXACT SIZE REQUIREMENT WITH OWNER.
4. EXISTING IT EQUIPMENT OUTLETS TO BE ON EMERGENCY. INTERCEPT EXISTING FEEDER, PROVIDE NEW J.BOX AND EXTEND TO INDICATED EMERGENCY PANEL. NEW WIRES AND CONDUIT TO MATCH WITH EXISTING.
5. PANEL TO BE ON EMERGENCY, REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
6. PROVIDE CONNECTION TO PRE-ACTION CONTROL PANEL, 120V.
7. PROVIDE HP RATED TOGGLE SWITCH FOR FAN COIL UNIT. PROVIDE 120VAC CONNECTION FOR CONDENSATE PUMP.
8. RECONNECT EXISTING POWER CONNECTION FOR NEW DRINKING FOUNTAIN.

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PROFESSIONAL SEAL

FIRST 5 LA
CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

DESIGN BUILD BRIDGING DOCUMENTS

AGENCY APPROVAL

DISCLAIMER

REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**MATTHEW GECOSO**
Checked	**ARIEL MARIANO**
Approved	**ARIEL MARIANO**

SHEET TITLE

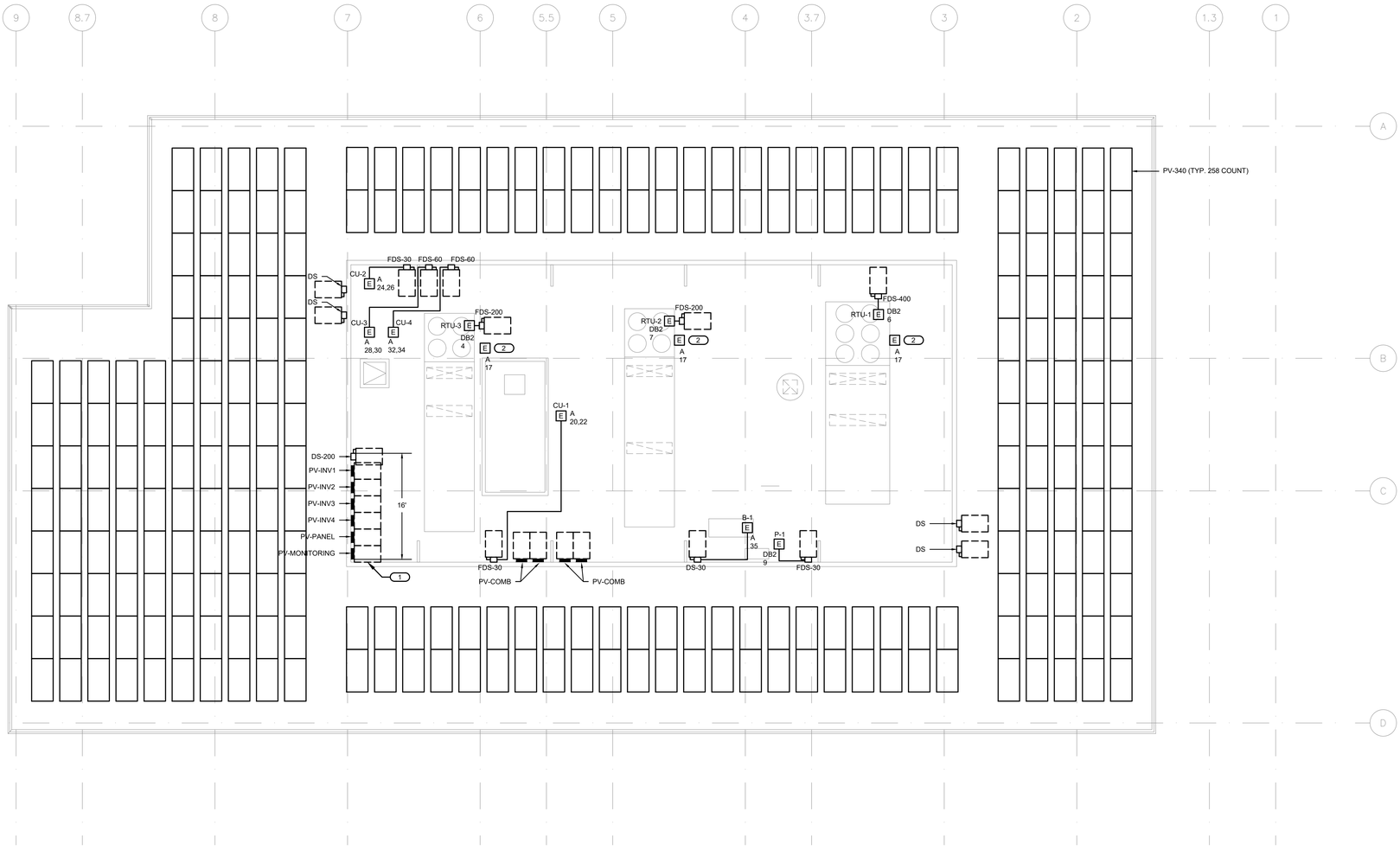
ELECTRICAL THIRD FLOOR REMODEL PLAN - POWER

SCALE

Scale: AS INDICATED

SHEET NUMBER

E2.03



1 ELECTRICAL ROOF REMODEL PLAN - POWER

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

GENERAL NOTES

1. COORDINATE ELECTRICAL WORK WITH OWNER REPRESENTATIVE AND ALL OTHER DISCIPLINES PRIOR TO STARTING CONSTRUCTION.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLING. MAINTAIN MINIMUM CODE REQUIRED CLEARANCES AT ALL TIME.

PV EQUIPMENT GENERAL NOTES

1. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE CEC, REQUIREMENTS, AND APPLICABLE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
2. LABEL ALL EQUIPMENT PER CEC ARTICLE 690.
3. INSTALL ALL LABELS REQUIRED PER CEC STANDARDS.
4. ALL FITTINGS TO BE RAIN TIGHT TYPE.
5. ALL WIRING SHALL BE SUITABLE FOR WET LOCATIONS.
6. EXPOSED NON-CURRENT CARRYING METAL PARTS OF ALL MODULE FRAMES, SUPPORT STRUCTURES, EQUIPMENT, AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH CEC.
7. INSTALL PULL BOXES WHERE REQUIRED BY CEC OR WHERE NEEDED TO ENSURE CABLE PULLING MAXIMUM TENSIONS ARE NOT EXCEEDED.
8. ALL CONDUIT ROUTING SHOWN SCHEMATICALLY. CONTRACTOR SHALL INSTALL CONDUIT IN SUCH A MANNER TO PREVENT SHADING OF MODULES.
9. SUPPORT ALL WIRING WITH APPROVED CLAMPS AT 42" INTERVALS MAXIMUM.
10. FIRE SEAL ALL CONDUIT PENETRATIONS TO MATCH EXISTING FIRE RATING.
11. PV RACKING DESIGN BY OTHERS.
12. ALL ISOLATED METALLIC RACKING AND SUPPORT HARDWARE SHALL BE BONDED TO EQUIPMENT GROUNDING CONDUCTOR (EGC).
13. ALL WIRING SHALL BE IN CONDUIT (EXCEPT #10 USE-2 LISTED PV SUNLIGHT RESISTANT CABLES BETWEEN MODULES AND FROM + AND - OUTPUTS OF MODULE STRING TO ASSOCIATED MICROINVERTER.
14. PROVIDE CONDUITS AND PULL BOXES AS REQUIRED FOR AC AND DC POWER FEEDERS. SEE SINGLE LINE DIAGRAM, PV SYSTEM CONDUCTORS MUST NOT SHARE COMMON RACEWAYS WITH BUILDING WIRING.
15. PROVIDE CONDUITS AND PULL BOXES AS REQUIRED FOR DATA ACQUISITION SYSTEM NETWORK. SEE RISER DIAGRAM. DATA ACQUISITION WIRING MUST NOT SHARE COMMON RACEWAYS WITH POWER CIRCUIT WIRING.

KEY NOTES (#)

1. NEMA 3R RATED PV EQUIPMENT MOUNTED ON UNISTRUT ON MECHANICAL SCREEN. APPROXIMATELY 16'-0" LENGTH SPACE NEEDED WITH 4' CLEARANCE IN FRONT OF EQUIPMENT.
2. 120V CONNECTION FOR AC UNIT UV LIGHTS.

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Illinois Design Firm Registration #184-000973
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SHEET TITLE

ELECTRICAL ROOF REMODEL PLAN - POWER

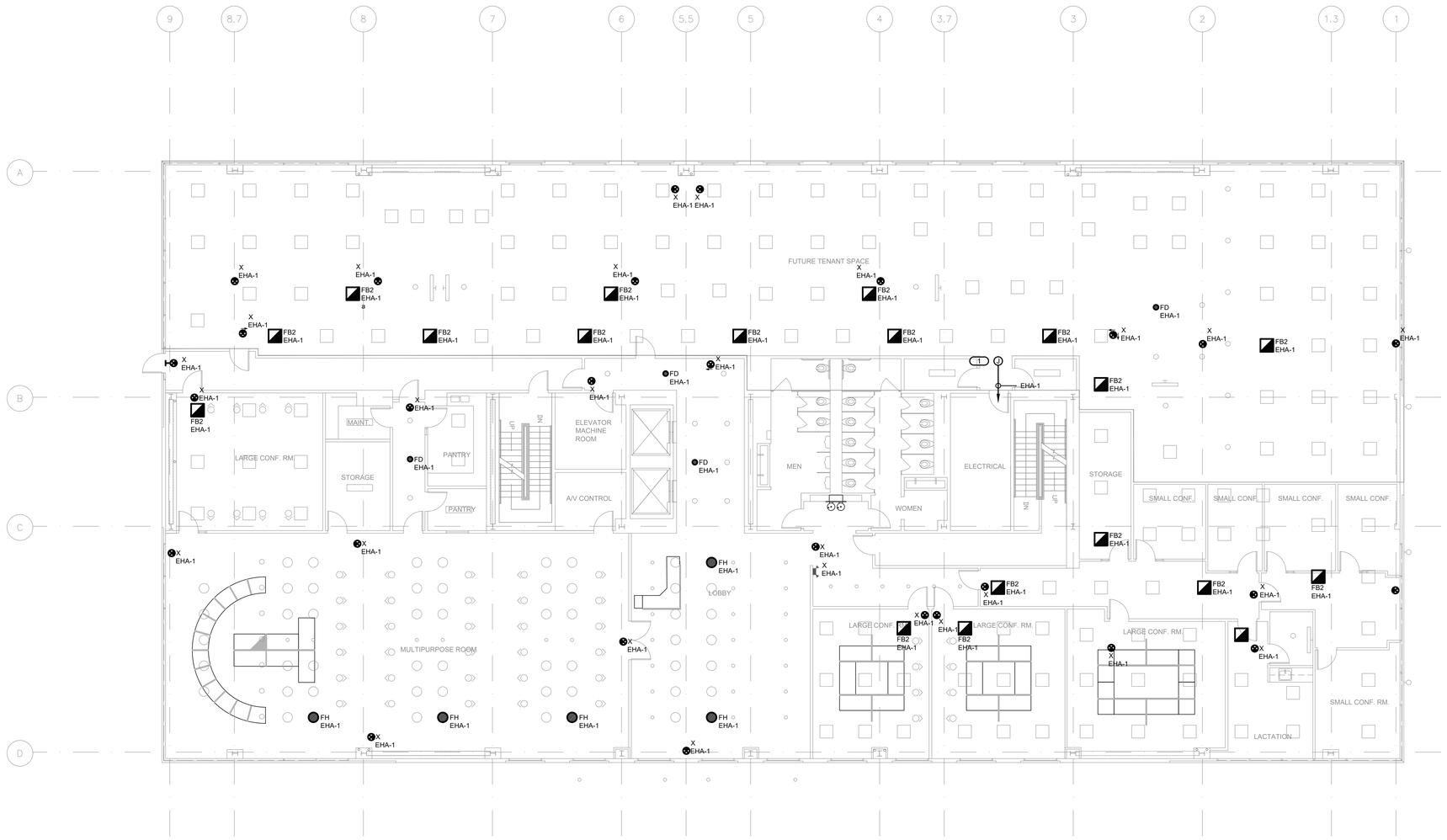
SCALE

Scale: AS INDICATED

SHEET NUMBER

E2.04

00000000.00 1/3/2017 1:50:23 PM Project Name



1 ELECTRICAL FIRST FLOOR REMODEL PLAN - LIGHTING

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

GENERAL NOTES

1. COORDINATE ELECTRICAL WORK WITH OWNER REPRESENTATIVE AND ALL OTHER DISCIPLINES PRIOR TO STARTING CONSTRUCTION.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLING. MAINTAIN MINIMUM CODE REQUIRED CLEARANCES AT ALL TIME.
3. ALL LIGHT FIXTURES SHOWN ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

KEY NOTES (#)

1. ALL EGRESS LIGHTING, INCLUDING EXIT SIGNS, TO BE RE-CIRCUITED TO EMERGENCY PANEL 'EHA'.

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0 1 2

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Checked	**ARIEL MARIANO**
Approved	**ARIEL MARIANO**

SHEET TITLE

ELECTRICAL FIRST FLOOR REMODEL PLAN - LIGHTING

SCALE

Scale: NONE

SHEET NUMBER

E3.01

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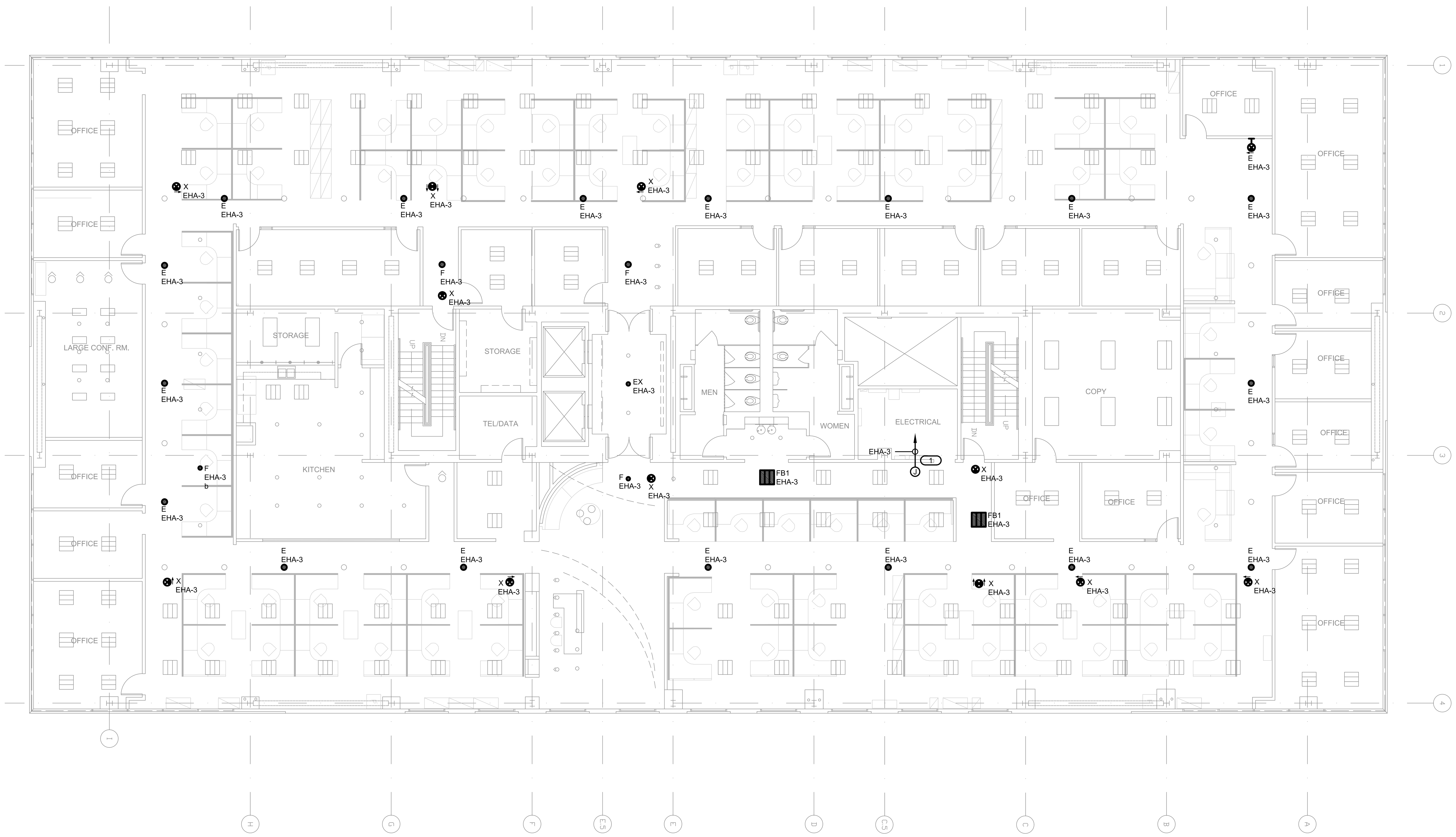

ELECTRICAL SECOND FLOOR REMODEL PLAN - LIGHTING

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

GENERAL NOTES

1. COORDINATE ELECTRICAL WORK WITH OWNER REPRESENTATIVE AND ALL OTHER DISCIPLINES PRIOR TO STARTING CONSTRUCTION.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLING. MAINTAIN MINIMUM CODE REQUIRED CLEARANCES AT ALL TIME.
3. ALL LIGHT FIXTURES SHOWN ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

KEY NOTES

1. ALL EGRESS LIGHTING, INCLUDING EXIT SIGNS, TO BE RE-CIRCUITED TO EMERGENCY PANEL 'EHA'.

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
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Job Number	**19002647.00**
Drawn	**MATTHEW GECOSO**
Checked	**ARIEL MARIANO**
Approved	**ARIEL MARIANO**

SHEET TITLE

ELECTRICAL SECOND FLOOR REMODEL PLAN - LIGHTING

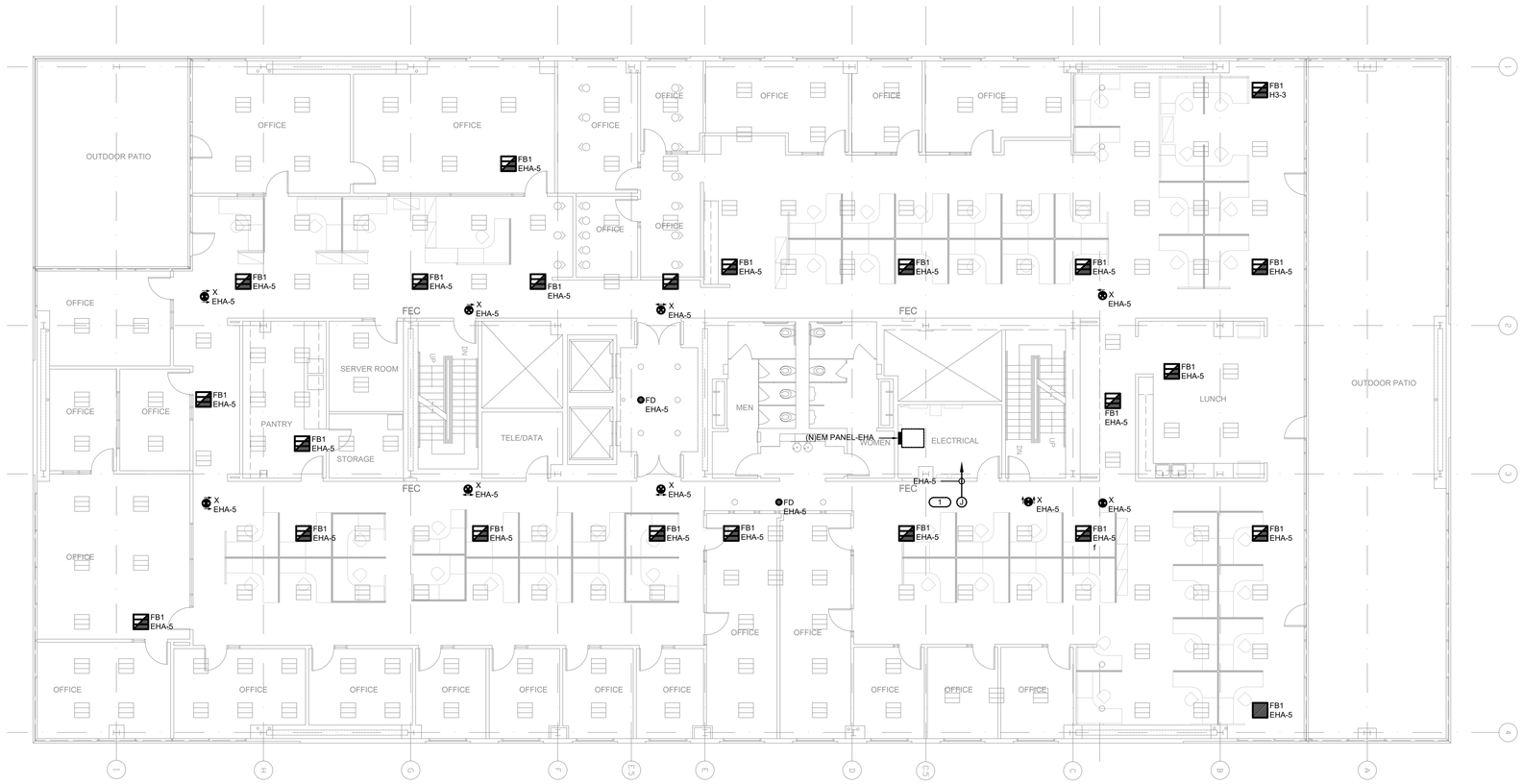
SCALE

Scale: AS INDICATED

SHEET NUMBER

E3.02

00000000.00 1/3/2017 1:50:23 PM Project Name



1 ELECTRICAL THIRD FLOOR REMODEL PLAN - LIGHTING

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

GENERAL NOTES

1. COORDINATE ELECTRICAL WORK WITH OWNER REPRESENTATIVE AND ALL OTHER DISCIPLINES PRIOR TO STARTING CONSTRUCTION.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEM AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLING. MAINTAIN MINIMUM CODE REQUIRED CLEARANCES AT ALL TIME.
3. ALL LIGHT FIXTURES SHOWN ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

KEY NOTES (#)

1. ALL EGRESS LIGHTING, INCLUDING EXIT SIGNS, TO BE RE-CIRCUITED TO EMERGENCY PANEL 'EHA'.

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REFERENCE SCALE IN INCHES

0 1 2

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Job Number	**19002647.00**
Drawn	**MATTHEW GECOSO**
Checked	**ARIEL MARIANO**
Approved	**ARIEL MARIANO**

SHEET TITLE

ELECTRICAL THIRD FLOOR REMODEL PLAN - LIGHTING

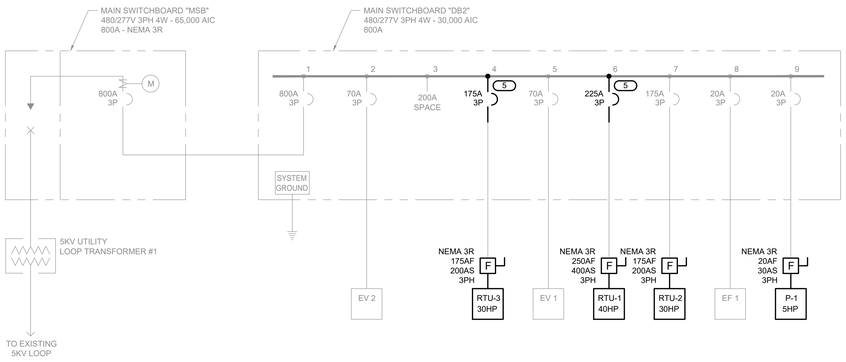
SCALE

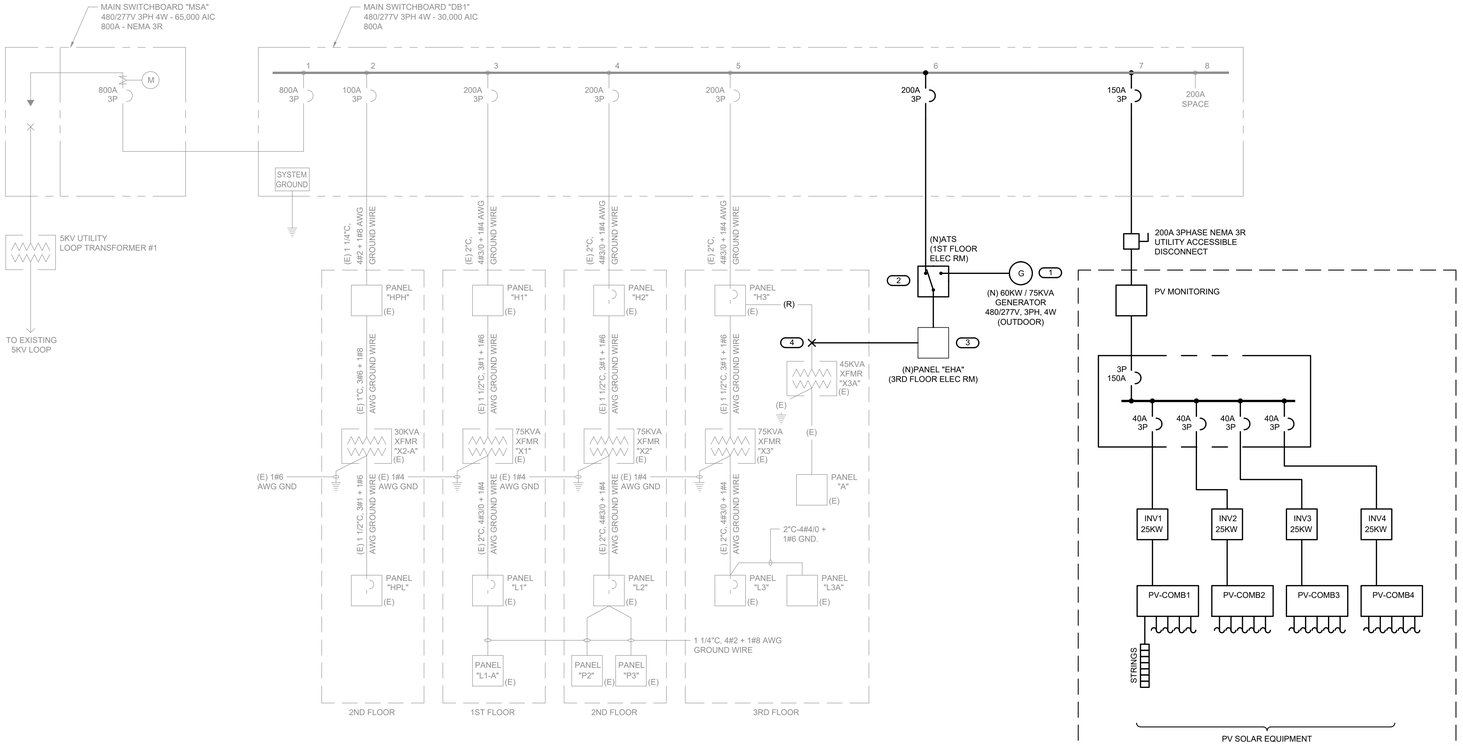
Scale: AS INDICATED

SHEET NUMBER

E3.03

00000000.00 1/3/2017 1:50:23 PM Project Name





PV STRING CALCULATIONS:

PHOTOVOLTAIC ARRAY (STC VALUES)

MODULE Panasonic HIT+ N340 340W			7 MODULES PER STRING	
Voc	71.3 V	-->	STRING Voc	499.1 V
Isc	6.1 A	-->	Isc * 1.25	7.7 A
Vmp	59.7 V	-->	STRING Vmp	417.9 V
Imp	5.7 A	-->	Imp * 1.25	7.1 A
MAX VOLTAGE CALCULATION			PV SOURCE CIRCUIT AMPACITY	
TEMPERATURE COEFFICIENT Voc	-0.17 %%%/°C		Isc * 1.56 =	9.6 A
EXPECTED LOW TEMPERATURE	-2 °C			
MAX PV SYSTEM VOLTAGE =	522 V			

GENERAL NOTES

1. COORDINATE ELECTRICAL WORK WITH OWNER REPRESENTATIVE, AND ALL OTHER DISCIPLINES PRIOR TO STARTING CONSTRUCTION.
2. CONTRACTOR TO PROVIDE ALL BRACKETS AND OTHER REQUIRED MOUNTING HARDWARE AS REQUIRED.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLING MAINTAIN MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIME.
4. CONCEAL ALL UTILITIES IN WALLS AND STUB-OUT OF WALLS AS REQUIRED FOR CONNECTIONS. DO NOT STUB OUT OF THE FLOOR AND/OR RUN EXPOSED ON THE FACE OF THE WALL.
5. ELECTRICAL CONTRACTOR TO VERIFY ALL EXISTING CIRCUITRY AND CONNECTION AT THE FIELD.

PV EQUIPMENT GENERAL NOTES

1. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY COMPANY.
2. PROVIDE LABELING FOR ALL EQUIPMENT, INCLUDING CONDUIT, PER NEC ARTICLE 690 AND 705.
3. REFER TO SPECIFICATION SECTION 26 31 00 FOR ADDITIONAL INFORMATION AND REQUIREMENTS ON THE PV SYSTEM.
4. ALL COMPONENTS SHALL BE GROUNDED.
5. IDENTIFY ALL CONDUITS SERVING PV SYSTEM WITH 'PHOTOVOLTAIC POWER SOURCE' LABEL.
6. PROVIDE A PERMANENT PLAQUE OR DIRECTORY SHOWING ALL ELECTRIC POWER SOURCES ON THE PREMISES AT THE SERVICE ENTRANCE EQUIPMENT.
7. EACH PV-340 MODULE SHALL BE GROUNDED, GROUNDING SHALL BE PIGTAILED SO REMOVAL OF PANEL WILL NOT INTERRUPT GROUND PATH.

KEY NOTES (#)

1. PROVIDE 60KW/75KVA PACKAGED GENERATOR SET.
2. PROVIDE ATS, 200A, 3P, 480V IN NEMA 1 ENCLOSURE.
3. PROVIDE 100A, 277/480V, 3PH EMERGENCY PANEL.
4. INTERCEPT EXISTING FEEDER, PROVIDE NEW J.BOX AND EXTEND TO INDICATED PANEL. NEW WIRES AND CONDUIT TO MATCH WITH EXISTING.
5. PROVIDE NEW CIRCUIT BREAKER, RATING AS INDICATED, INCLUDING MOUNTING HARDWARE IN ITS PLACE FOR NEW EQUIPMENT CONNECTION. NEW CIRCUIT BREAKER SHALL BE COMPATIBLE WITH AND MATCH EXISTING AIC RATING.

1 ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NTS

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Checked	**ARIEL MARIANO**
Approved	**ARIEL MARIANO**

SHEET TITLE

SINGLE LINE DIAGRAM

SCALE

Scale: NONE

SHEET NUMBER

E5.00

00000000.00 1/3/2017 1:50:23 PM Project Name

MOUNTING: SURFACE | PANEL: (E) L1A | LOCATION: ELECTRICAL ROOM 1ST FLR

VOLTAGE: 208/120V.,3P,4W | AIC SYM: | 100 AMP BUS | 3P-100AT MAIN | CB

DESCRIPTION	VOLT-AMPERES PHASE A	PHASE B	PHASE C	LTG	REC	MISC	POLE	BKR	CIR	CIR	BKR	POLE	MISC	REC	LTG	VOLT-AMPERES PHASE A	PHASE B	PHASE C	DESCRIPTION
(E) CONF RM FURN							1	20	1	2	20	1							(E) FIRE DAMPERS
(E) CONF RM FURN							1	20	3	4	20	1							(E) VAV'S
(E) CONF RM FURN							1	20	5	6	20	1							(E) INFANT RM GFI
(E) OFFICE SUITE RECPT.							1	20	7	8	20	1							(E) RECPT.
(E) OFFICE SUITE RECPT.							1	20	9	10	20	1							(E) GARBAGE DISPOSAL BRK RM
(E) DEDICATED GFCI BREAK RM							1	20	11	12	20	1							(E) CARD READER
(E) RECPT. DIRECTORS OFFICE							1	20	13	14	20	1							(E) MULTI-PURPOSE RM DEDICATE
(E) RECPT. DIRECTORS OFFICE							1	20	15	16	20	1							(E) MULTI-PURPOSE RM DEDICATE
(E) REFRIGERATOR BREAK RM							1	20	17	18	20	1							(E) MULTI-PURPOSE RM DEDICATE
(E) COPIER LOBBY							1	20	19	20	20	1							(E) MULTI-PURPOSE RM DEDICATE
AV FLAT PANEL		800			4		1	20	21	22	20	1							(E) AUTOMATIC DOOR'S
AV FLAT PANEL, PTZ CAMERA			400		2		1	20	23	24	20	1	3					1080	**DOOR OPERATORS**
HDMI DISTRIBUTION AMPLIFIER	285				4		1	20	25	26	20	1		1		1833			**AV-CAB-1**
HDMI DISTRIBUTION AMPLIFIER		215			3		1	20	27	28	20	1		1			1833		**AV-CAB-1**
USB			300			1	1	20	29	30	20	1		1				1833	**AV-CAB-1**
USB	300					1	1	20	31	32	20	1		1		700			**AV EQUIPMENT**
SPARE							1	20	33	34	20	1							SPARE
SPARE							1	20	35	36	20	1							SPARE
SPARE							1	20	37	38	20	1							SPARE
SPARE							1	20	39	40	20	1							SPARE
SPARE							1	20	41	42	20	1							SPARE
VA PER PHASE	585	1015	700	0	13	2							3	4	0	2533	1833	2913	**VA PER PHASE**

CONTINUOUS LOAD	0 x1.25 =	0 VA	**TOTAL VA PER PHASE** 3118 2848 3613
	+ OTHER =	9579 VA	**TOTAL CONNECTED VA** 9579
	TOTAL LOAD =	9579 VA	26.59 AMPS @ 120/208Volts, 3Phase, 4W

MOUNTING: SURFACE | PANEL: (E) L2 | LOCATION: ELECTRICAL ROOM 2ND FLR

VOLTAGE: 208/120V.,3P,4W | AIC SYM: | 225 AMP BUS | 3P-200AT MAIN | CB

DESCRIPTION	VOLT-AMPERES PHASE A	PHASE B	PHASE C	LTG	REC	MISC	POLE	BKR	CIR	CIR	BKR	POLE	MISC	REC	LTG	VOLT-AMPERES PHASE A	PHASE B	PHASE C	DESCRIPTION
(E) MIS. RM. DED. RECEPT.							1	20	1	2	20	1							(E) 229,230,231 RECEPT.
(E) VENDING MACH. RECEPT.							1	20	3	4	20	1							(E) 229,230,231 RECEPT.
(E) OFFICE RECEPT.							1	20	5	6	20	1							(E) 229,230,231 RECEPT.
(E) OFFICE RECEPT.							1	20	7	8	100	2							(E) NW UPS
(E) OFFICE RECEPT.							1	20	9	10	-	-							----
(E) COPY RM. CONV. RECEPT.							1	20	11	12	20	1		1				800	**MIS ROOM**
(E) COPY RM. CONV. RECEPT.							1	20	13	14	20	1							(E) TEL. RM. RECEPT.
(E) OFFICE RECEPT.							1	20	15	16	20	1							(E) TEL. RM. RECEPT.
(E) OFFICE RECEPT.							1	20	17	18	20	1							(E) HOTELING COPIER
(E) OFFICE RECEPT.							1	20	19	20	20	1							(E) LOUNGE REFER
(E) MIS. RM. DED. RECEPT.							1	20	21	22	20	1							(E) COFFEE MAKER
(E) MIS. RM. DED. RECEPT.							1	20	23	24	20	1							(E) G. D.
(E) MIS. RM. DED. RECEPT.							1	20	25	26	20	1							(E) GFI RECEPT.
(E) MIS. RM. DED. RECEPT.							1	20	27	28	20	1							(E) D. W.
(E) L-6-30 MIS. RACK							2	30	29	30	20	1							(E) MICROWAVE RECEPT.
---							-	-	31	32	20	1							(E) MICROWAVE RECEPT.
(E) L-6-30 MIS. RACK							2	30	33	34	20	1		1				360	**TEL/CABINET**
---							-	-	35	36	20	1		1				360	**TEL/CABINET**
(E) PANEL P2							3	100	37	38	100	3							(E) PANEL P.3
----							-	-	39	40	-	-							----
----							-	-	41	42	-	-							----
VA PER PHASE	0	0	0	0	0	0							0	3	0	0	360	1160	**VA PER PHASE**

CONTINUOUS LOAD	0 x1.25 =	0 VA	**TOTAL VA PER PHASE** 0 360 1160
	+ OTHER =	1520 VA	**TOTAL CONNECTED VA** 1520
	TOTAL LOAD =	1520 VA	4.22 AMPS @ 120/208Volts, 3Phase, 4W

MOUNTING: SURFACE | PANEL: (E) L3A | LOCATION: ELECTRICAL ROOM 3RD FLR

VOLTAGE: 208/120V.,3P,4W | AIC SYM: | 225 AMP BUS | 3P-200AT MAIN | CB

DESCRIPTION	VOLT-AMPERES PHASE A	PHASE B	PHASE C	LTG	REC	MISC	POLE	BKR	CIR	CIR	BKR	POLE	MISC	REC	LTG	VOLT-AMPERES PHASE A	PHASE B	PHASE C	DESCRIPTION
(E) FURNITURE PARTITION							1	20	1	2	20	1							(E) FURNITURE PARTITION
(E) FURNITURE PARTITION							1	20	3	4	20	1							(E) FURNITURE PARTITION
(E) FURNITURE PARTITION							1	20	5	6	20	1							(E) FURNITURE PARTITION
(E) FURNITURE PARTITION							1	30	7	8	20	1							(E) FURNITURE PARTITION
(E) FURNITURE PARTITION							1	20	9	10	20	1							(E) RECS SERVER ROOM
(E) FURNITURE PARTITION							1	20	11	12	20	1							(E) FURNITURE PARTITION
(E) FURNITURE PARTITION							1	20	13	14	20	1							(E) FURNITURE PARTITION
(E) FURNITURE PARTITION							1	20	15	16	20	1							(E) FURNITURE PARTITION
(E) REC GARB. DISPOSAL T-311							1	20	17	18	20	2							(E) FC-1
(E) REC OFFICE T-334							1	20	19	20	-	-							---
(E) REC OFFICE T-334							1	20	21	22	50	2							(E) CU-1 ON ROOF
(E) REC COPY ROOM T-330							2	15	23	24	-	-							---
(E) REC COPY ROOM T-330							-	-	25	26	20	1							(E) FURNITURE PARTITION
(E) REC COPY ROOM T-330							1	20	27	28	20	1							(E) FURNITURE PARTITION
(E) REC COPY ROOM T-330							1	20	29	30	20	1							(E) FURNITURE PARTITION
(E) REC COPY ROOM T-330							1	20	31	32	20	1							(E) FURNITURE PARTITION
(E) RECEPTACLES GENERAL							1	20	33	34	30	2							(E) SERVER ROOM
(E) FURNITURE PARTITION							1	20	35	36	-	-							(E) SERVER ROOM
(E) VAV 3RD FLR							1	20	37	38	30	2							(E) SERVER ROOM
(E) VAV 3RD FLR							1	20	39	40	-	-							(E) SERVER ROOM
(E) DISHWASH BRK RM T-311							1	20	41	42	20	1							(E) FA POWER SUPPLY
VA PER PHASE	0	0	0	0	0	0								0	0	0	0	0	**VA PER PHASE**

CONTINUOUS LOAD	0 x1.25 =	0 VA	**TOTAL VA PER PHASE** 0 0 0
	+ OTHER =	0 VA	**TOTAL CONNECTED VA** 0
	TOTAL LOAD =	0 VA	0.00 AMPS @ 120/208Volts, 3Phase, 4W

MOUNTING: SURFACE | PANEL: (E) A - EMERG | LOCATION: ELECTRICAL ROOM 3RD FLR

VOLTAGE: 208/120V.,3P,4W | AIC SYM: | 225 AMP BUS | 3P-125AT MAIN | CB

DESCRIPTION	VOLT-AMPERES PHASE A	PHASE B	PHASE C	LTG	REC	MISC	POLE	BKR	CIR	CIR	BKR	POLE	MISC	REC	LTG	VOLT-AMPERES PHASE A	PHASE B	PHASE C	DESCRIPTION
(E) FURN. SOUTH FEED EAST							1	20	1	2	20	1							(E) FURN. NORTH WEST & EAST
(E) FURN. SOUTH FEED EAST							1	20	3	4	20	1							(E) FURN. NORTH WEST & EAST
(E) FURN. SOUTH FEED EAST							1	20	5	6	20	1							(E) FURN. NORTH WEST & EAST
(E) OFFICE GND ELEV. LOBBY							1	30	7	8	20	1							(E) BREAK ROOM
IT RACK - 2ND FLR		1500				1	2	20	9	10	20	1							(E) BREAK ROOM
---			1500				-	-	11	12	20	1							(E) BREAK ROOM
IT RACK - 2ND FLR	1500					1	2	20	13	14	100	3							SPARE
---		1500					-	-	15	16	-	-							SPARE
AC UNIT UV LIGHTS			3				1	20	17	18	-	-							SPARE
IT RACK - 3RD FLR	2500						2	30	19	20	30	2				1650			**CU-1 / FC-1**
---		2500					-	-	21	22	-	-					1650		----
IT RACK - 3RD FLR			2500				2	30	23	24	30	2						1650	**CU-2 / FC-2**
---	2500						-	-	25	26	-	-				1650			----
* **FPP-1**		100					1	20	27	28	40	2					3000		**CU-3**
* **FACP-1**			100				1	20	29	30	-	-						3000	----
* **FPCA-1**	100						1	20	31	32	40	2				3000			**CU-4**
(E) SECURITY ACCESS		500					1	20	33	34	-	-					3000		----
B-1			500				1	20	35	36	20	2						500	**FC-3A, FC-3B, FC-4A, FC-4B**
SPACE									37	38	-	-							----
SPACE									39	40									SPACE
SPACE									41	42									SPACE
VA PER PHASE	6600	6100	4600	3	0	2							0	0	0	6300	7650	5150	**VA PER PHASE**

CONTINUOUS LOAD	0 x1.25 =	0 VA	**TOTAL VA PER PHASE** 12900 13750 9750
	+ OTHER =	36400 VA	**TOTAL CONNECTED VA** 36400
	TOTAL LOAD =	36400 VA	101.04 AMPS @ 120/208Volts, 3Phase, 4W

* PROVIDE RED COLORED BREAKER, LOCKABLE IN "ON" POSITION.

MOUNTING: SURFACE | PANEL: (E) P3 | LOCATION: ELECTRICAL ROOM 2ND FLR

VOLTAGE: 208/120V.,3P,4W | AIC SYM: | 100 AMP BUS | 3P-100A MAIN | LO

DESCRIPTION	VOLT-AMPERES PHASE A	PHASE B	PHASE C	LTG	REC	MISC	POLE	BKR	CIR	CIR	BKR	POLE	MISC	REC	LTG	VOLT-AMPERES PHASE A	PHASE B	PHASE C	DESCRIPTION
(E) COPY RM. COPIER							1	20	1	2	20	1							(E) 213-218 OFFICE RECEPT.
(E) VAV POWER							1	20	3	4	20	1							(E) 213-218 OFFICE RECEPT.
(E) COPIER WEST SIDE							1	20	5	6	20	1							(E) 213-218 OFFICE RECEPT.
(E) RECPT. LTNG. ELEV. LOBBY							1	30	7	8	20	1							(E) 213-218 OFFICE RECEPT.
(E) LOUNGE LIGHTING							1	20	9	10	20	1							(E) F.A.P. STROBES
(E) RECP. LIGHTING							1	20	11	12	20	1							(E) LIGHTING CONTROL PANEL
(E) UPS							1	20	13	14	50	2							(E) A.C. COND. UNIT 2ND FLR
(E) UPS							2	50	15	16	-	-							---
---							-	-	17	18	15	2							(E) A.C. F.A.U
(E) UPS							1	30	19	20	-	-							---
DOOR OPERATORS		1440				4	1	20	21	22	20	2							(E) PRINTER
SPARE							1	20	23	24	-	-							---
SPARE							1	20	25	26	20	1							(E) PRINTER
SPARE							1	20	27	28	20	1							SPARE
SPARE							1	20	29	30	20	1							SPARE
SPARE							1	20	31	32	20	1							SPARE
SPARE							1	20	33	34	20	1							SPARE
SPARE							1	20	35	36	20	1							SPARE
SPARE							1	20	37	38									SPARE
SPARE							1	20	39	40									SPARE
SPARE									41	42									SPARE
VA PER PHASE	0	1440	0	0	0	4							0	0	0	0	0	0	**VA PER PHASE**

CONTINUOUS LOAD	0 x1.25 =	0 VA	**TOTAL VA PER PHASE** 0 1440 0
	+ OTHER =	1440 VA	**TOTAL CONNECTED VA** 1440
	TOTAL LOAD =	1440 VA	4.00 AMPS @ 120/208Volts, 3Phase, 4W

MOUNTING: SURFACE | PANEL: (N) EHA - EMERG | LOCATION: ELECTRICAL RM. 1ST FLR

VOLTAGE: 480/277V.,3P,4W | AIC SYM: | 225 AMP BUS | 3P-100AT MAIN | CB

DESCRIPTION	VOLT-AMPERES PHASE A	PHASE B	PHASE C	LTG	REC	MISC	POLE	BKR	CIR	CIR	BKR	POLE	MISC	REC	LTG	VOLT-AMPERES PHASE A	PHASE B	PHASE C	DESCRIPTION
EGRESS LIGHTS - LVL 1	1796			56			1	20	1	2	20	3							**SPARE**
EGRESS LIGHTS - LVL 2		1920		24			1	20	3	4	-	-							**SPARE**
EGRESS LIGHTS - LVL 3			2090	34			1	20	5	6	-	-							**SPARE**
SPARE							1	20	7	8	20	3							**SPARE**
SPARE							1	20	9	10	-	-							**SPARE**
SPARE							1	20	11	12	-	-							**SPARE**
SPACE							1		13	14		1							**SPACE**
SPACE							1		15	16		1							**SPACE**
SPACE							1		17	18		1							**SPACE**
SPACE							1		19	20		1							**SPACE**
SPACE							1		21	22		1							**SPACE**
SPACE							1		23	24		1							**SPACE**
SPACE							1		25	26		1							**SPACE**
SPACE							1		27	28	60	1							**SPARE**
SPACE							1		29	30		1							**SPACE**
SPACE							1		31	32		1							**SPACE**
SPACE							1		33	34		1							**SPACE**
SPACE							1		35	36		1							**SPACE**
SPACE							1		37	38	60	3			12900				**TR X3A - PANEL A**
SPACE							1		39	40	-	-				13750			**TR X3A - PANEL A**
SPACE							1		41	42	-	-					9750		**TR X3A - PANEL A**
VA PER PHASE	1796	1920	2090	114	0	0								0	0	12900	13750	9750	**VA PER PHASE**

CONTINUOUS LOAD	5806 x1.25 =	7258 VA	**TOTAL VA PER PHASE** 14696 15670 11840
	+ OTHER =	36400 VA	**TOTAL CONNECTED VA** 42206
	TOTAL LOAD =	43658 VA	52.51 AMPS @ 480/277Volts, 3Phase, 4W

(E) L1A	(E) L2	(E) L3A
(E) A	(E) P3	(N) EHA
-	-	-

1/3/2017 1:50:23 PM Project Name

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www.imegcorp.com
Project #: **19002647.00**

PROFESSIONAL SEAL

FIRST 5 LA
CAPITAL IMPROVEMENT
PROJECT (CIP) - PHASE I

DESIGN BUILD
BRIDGING DOCUMENTS

AGENCY APPROVAL

DISCLAIMER

Illinois Design Firm Registration #184-000973
REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue: **100% DD BRIDGING DOCUMENT**
Date: **03/09/2021**
Job Number: **19002647.00**
Drawn: **MATTHEW GECOSO**
Checked: **ARIEL MARIANO**
Approved: **ARIEL MARIANO**

SHEET TITLE

PANELBOARD SCHEDULES

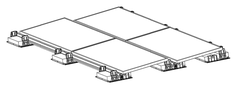
SCALE

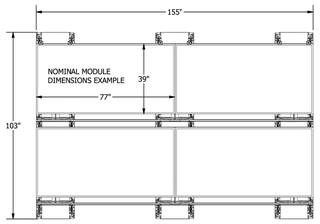
Scale: NONE

SHEET NUMBER

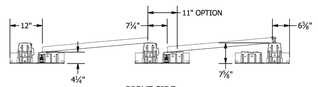
E5.01

NOTES:
1. ARRAY DIMENSIONS WILL VARY BASED ON MODULE WIDTH & LENGTH.



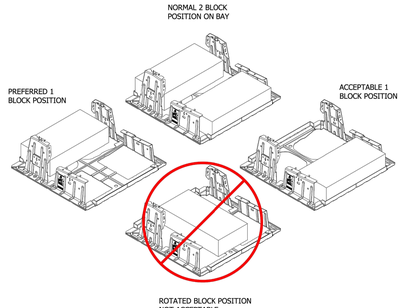


TOP

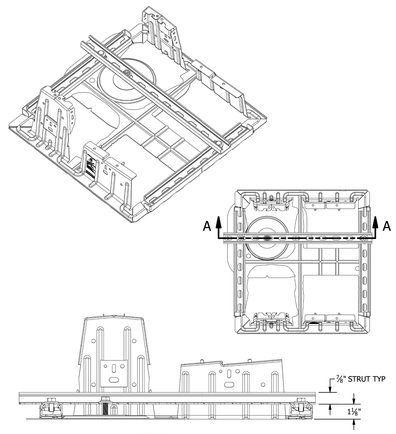


RIGHT SIDE

UNIRAC 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM	PRODUCT LINE: RM5 ROOFMOUNT DRAWING TYPE: ASSEMBLY DESCRIPTION: RM5 - 4 MODULE LAYOUT REVISION DATE: 2/6/2020	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	RM5-A01 SHEET

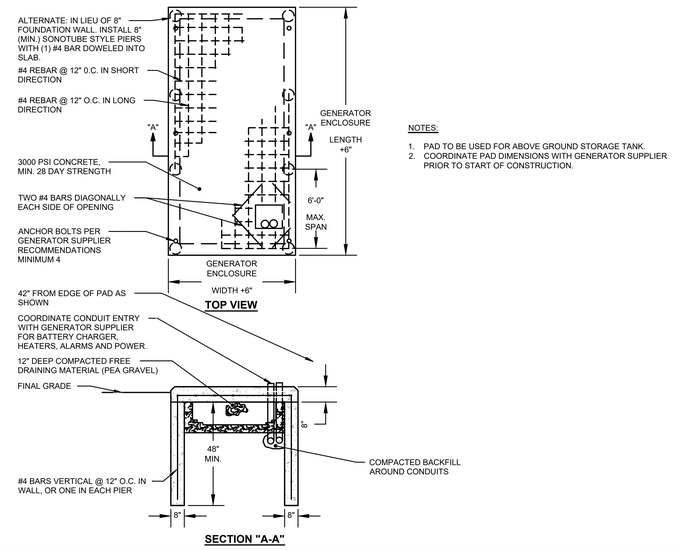


UNIRAC 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM	PRODUCT LINE: RM5 ROOFMOUNT DRAWING TYPE: ASSEMBLY DESCRIPTION: BAY & BALLAST BLOCKS REVISION DATE: 2/10/2020	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	RM5-A02 SHEET



SECTION A-A

UNIRAC 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM	PRODUCT LINE: RM5 ROOFMOUNT DRAWING TYPE: ASSEMBLY DESCRIPTION: RM5 BAY & H-ATTACHMENT REVISION DATE: 2/10/2020	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	RM5-A03 SHEET

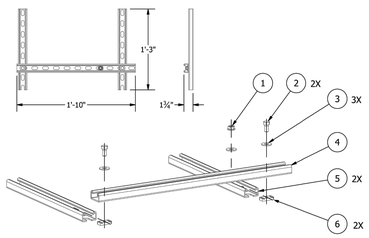


NOTES:
1. PAD TO BE USED FOR ABOVE GROUND STORAGE TANK.
2. COORDINATE PAD DIMENSIONS WITH GENERATOR SUPPLIER PRIOR TO START OF CONSTRUCTION.

SECTION "A-A"

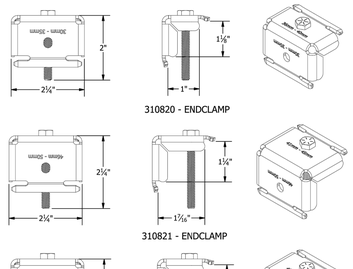
GENERATOR PAD DETAIL — SCALE: N.T.S — 1

H-ATTACHMENT PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	M30380	3/8-16 HEX FLANGE NUT, SS
2	2	M30304	3/8-16 X 3/4 HEX BOLT, SS
3	3	M31130	3/8 WASHER, SS
4	1	M40603	7/8 X 1 5/8 X 22 IN STRUT, GALV
5	2	M40604	7/8 X 1 5/8 X 15 IN STRUT, GALV
6	2	M30383	3/8-16 STRUT NUT, ZN



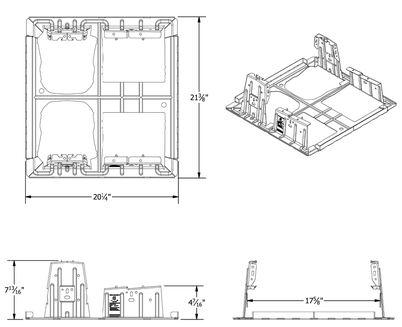
ASSEMBLY # TABLE	
P/N	DESCRIPTION
310882	RM5/DT H-ATTACHMENT KIT

UNIRAC 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM	PRODUCT LINE: RM5 ROOFMOUNT DRAWING TYPE: ASSEMBLY DESCRIPTION: RM5/DT H-ATTACHMENT KIT REVISION DATE: 2/10/2020	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	RM5-A04 SHEET



PART # TABLE	
P/N	DESCRIPTION
310820	RM5/DT ENDCLAMP 30-40MM
310821	RM5/DT ENDCLAMP 41-45MM
310822	RM5/DT ENDCLAMP 46-50MM
310860	RM5/DT 1/4-20 CLIP U-NUT SS 18-8

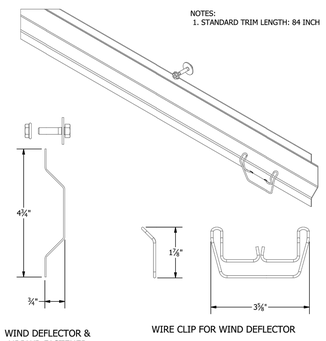
UNIRAC 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM	PRODUCT LINE: RM5 ROOFMOUNT DRAWING TYPE: ASSEMBLY DESCRIPTION: ENDCLAMPS & 1/4" CLIP U-NUT REVISION DATE: 2/10/2020	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	RM5-A05 SHEET



PART # TABLE	
P/N	DESCRIPTION
310800	RM5 BAY

UNIRAC 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM	PRODUCT LINE: RM5 ROOFMOUNT DRAWING TYPE: PART DESCRIPTION: RM5 BAY REVISION DATE: 2/10/2020	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	RM5-P01 SHEET

NOTES:
1. STANDARD TRIM LENGTH: 84 INCH

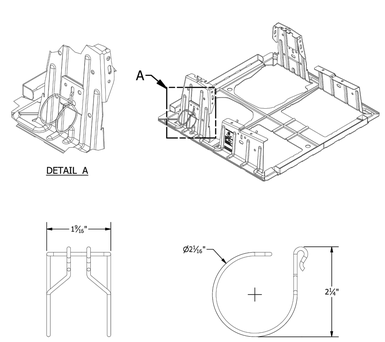


WIND DEFLECTOR & HRDWR FASTENER

WIRE CLIP FOR WIND DEFLECTOR

PART # TABLE		
P/N	DESCRIPTION	LENGTH
310810	RM5 WIND DEFLECTOR	84"
310850	RM5 WD WIRE MGMT CLIP	-
310861	RM5 WIND DEFLECTOR HDW KIT	-

UNIRAC 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM	PRODUCT LINE: RM5 ROOFMOUNT DRAWING TYPE: PART DESCRIPTION: WIND DEFLECTOR, HDWR & WIRE CLIP REVISION DATE: 2/10/2020	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	RM5-P02 SHEET

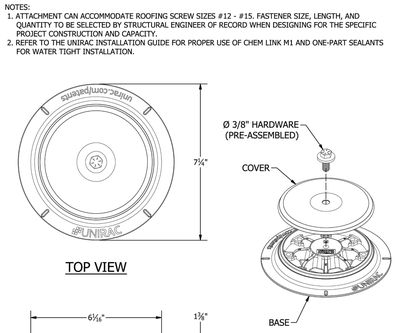


RM5/DT WIRE MGMT CLIP

PART # TABLE	
P/N	DESCRIPTION
310850	RM5/DT WIRE MGMT CLIP

UNIRAC 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM	PRODUCT LINE: RM5 ROOFMOUNT DRAWING TYPE: PART DESCRIPTION: RM5/DT WIRE MGMT CLIP REVISION DATE: 2/10/2020	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	RM5-P03 SHEET

NOTES:
1. ATTACHMENT CAN ACCOMMODATE ROOFING SCREW SIZES #12 - #15. FASTENER SIZE, LENGTH, AND QUANTITY TO BE SELECTED BY STRUCTURAL ENGINEER OF RECORD WHEN DESIGNING FOR THE SPECIFIC PROJECT CONSTRUCTION AND CAPACITY.
2. REFER TO THE UNIRAC INSTALLATION GUIDE FOR PROPER USE OF CHEM LINK M1 AND ONE-PART SEALANTS FOR WATER TIGHT INSTALLATION.



TOP VIEW

PART # TABLE	
P/N	DESCRIPTION
310999	FLASHLOC RM KIT

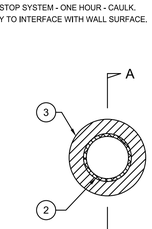
ULTIMATE TEST LOAD (WITH 8 ROOF FASTENERS)	
UPLIFT ULTIMATE CAPACITY	6,670 lbs.
SHEAR ULTIMATE CAPACITY	5,760 lbs.

UNIRAC 1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM	PRODUCT LINE: RM DRAWING TYPE: ASSEMBLY DETAIL DESCRIPTION: FLASHLOC RM KIT REVISION DATE: 6/26/2020	DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE	RMF-A01 SHEET

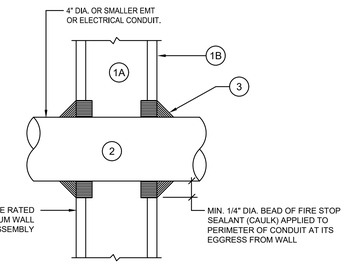
NOTES:
1 WALL CONSTRUCTION:
- A. STEEL STUDS PER ARCHITECTURAL/STRUCTURAL.
- B. 5/8" X GYPSUM BOARD PER ARCHITECTURAL.

2 CONDUIT SIZE PER DRAWINGS.

3 FIRE STOP SYSTEM - ONE HOUR - CAULK. APPLY TO INTERFACE WITH WALL SURFACE.



FRONT VIEW

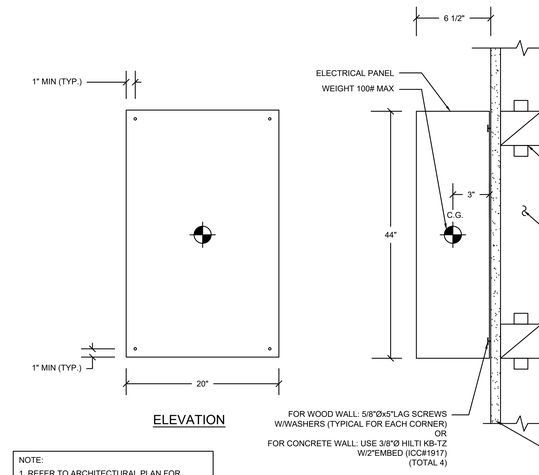


SECTION A-A

NOTE: MAX. DIA. OF OPENING IS 13 1/2" ANNULAR SPACE OF MIN. 1/4" DIA. BEAD IS REQUIRED.

U.L. SYSTEM NO. WL 1001

CONDUIT THRU 1 OR 2-HR. FIRE RATED WALL — SCALE: N.T.S — 2



ELEVATION

SIDE VIEW

NOTE:
1. REFER TO ARCHITECTURAL PLAN FOR WALL PARTITION DETAIL.
2. APPLY THIS DETAIL WHERE OCCUR.

SURFACE MOUNTED ELECTRICAL PANEL ANCHORAGE — SCALE: N.T.S — 3

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Project #: **19002647.00**

PROFESSIONAL SEAL

FIRST 5 LA
CAPITAL IMPROVEMENT
PROJECT (CIP) - PHASE I

DESIGN BUILD
BRIDGING DOCUMENTS

AGENCY APPROVAL

Illinois Design Firm Registration #184-000973
REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**MATTHEW GECOSO**
Checked	**ARIEL MARIANO**
Approved	**ARIEL MARIANO**

SHEET TITLE
ELECTRICAL DETAILS

SCALE
Scale: NONE

SHEET NUMBER
E8.01

00000000.00 1/3/2017 1:50:23 PM Project Name

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
BD	BOILER BLOW DOWN
BF	BOILER FEED WATER
DPP	DRAIN
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
LIQ	REFRIGERANT LIQUID
SUC	REFRIGERANT SUCTION
SV	SAFETY RELIEF VENT
DMG	DRAIN
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
	NEW CONNECTION
	DIELECTRIC CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	BALANCING VALVE (NUMBER INDICATES GPM)
	AUTOMATIC BALANCING VALVE
	MIXING VALVE
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	PUMP
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	DRAIN VALVE WITH HOSE CONNECTION AND CAP
	EXPANSION JOINT
M	METER
AI	ANALOG INPUT
AO	ANALOG OUTPUT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
T	THERMOSTAT
HHWS	HEATING HOT WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
(E) HHWS	EXISTING HEATING HOT WATER SUPPLY
(E) HHWR	EXISTING HEATING HOT WATER RETURN

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.

BUILDING CODE:	CBC 2019 EDITION
FIRE CODE:	CFC 2019 EDITION
PLUMBING CODE:	CPC 2019 EDITION
MECHANICAL CODE:	CMC 2019 EDITION
ELECTRICAL CODE:	NFPA 70 (CEC) 2019 EDITION
LIFE SAFETY CODE:	NFPA 101 2019 EDITION
ENERGY CONSERVATION CODE:	CEC 2019
LOCAL BUILDING CODE:	CURRENT EDITION

MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CD-E	CEILING DIFFUSER - EXISTING
CFSD	CONTROL/FIRE/SMOKE DAMPER
CO	CLEANOUT
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
EP	ELECTRICAL TO PNEUMATIC VALVE
ESD	EXISTING SMOKE DAMPER
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
MA	MIXED AIR
MV	MIXING VALVE
NC	NEW CONNECTION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
RA	RETURN AIR
SA	SUPPLY AIR
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
	UNLESS NOTED OTHERWISE

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. ALL WORK SHALL STRICTLY ADHERE TO BASE BUILDING STANDARDS AND SHALL COMPLY WITH LATEST REQUIREMENTS OF CALIFORNIA BUILDING, MECHANICAL, GREEN, ENERGY CODES AND AHJ.
4. CONTRACTOR SHALL PROVIDE PRE-AIR BALANCE REPORT FOR APPROVAL PRIOR TO START OF WORK.
5. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
6. CONTRACTOR SHALL COORDINATE WITH ALL OTHER AFFECTED OR APPLICABLE DIVISIONS AND ESPECIALLY DIVISION 26 FOR PROPER ELECTRICAL DISCONNECTS AND SHUT OFF OF (E) HVAC EQUIPMENT & FOR THE INSTALLATION AND POWER REQUIREMENTS OF NEW HVAC EQUIPMENT.
7. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
8. ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
9. EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
10. DEMOLITION AND REMOVAL OF EQUIPMENT SHALL INCLUDE BUT ARE NOT LIMITED TO DUCTWORK, SUPPORTS, ISOLATORS, SEISMIC SUPPORT, PIPING, CONDUIT, AND CONTROLS.
11. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
12. ANY DAMAGE TO EXISTING EQUIPMENT TO REMAIN, ROOF, ETC. FROM DEMOLITION SHALL BE PATCHED OR REPAIRED TO MATCH EXISTING.
13. SEAL ALL PENETRATIONS AIRTIGHT WHERE CONDUIT, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
14. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
15. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
16. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
17. MAINTAIN MINIMUM 3'-6 " CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
18. CONTRACTOR TO USE EXISTING CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. CONTRACTOR TO FIELD-VERIFY AND INSTALL EQUIPMENT ON THE EQUIPMENT PAD TO MAINTAIN MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
19. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.
20. COORDINATE WITH STRUCTURAL FOR PROPER MOUNTING AND SUPPORT OF HVAC EQUIPMENT.
21. INSTALLATION OF SLEEPER RAIL AND EQUIPMENT ANCHORED TO THE ROOF SHALL MAINTAIN ROOFING WARRANTY. CONTRACTOR SHALL COORDINATE WITH ROOFING CONTRACTOR PRIOR TO INSTALLATION.
22. NOTIFY GENERAL CONTRACTOR OF ANY DISCREPANCY PRIOR TO CONTINUATION OF WORK. GENERAL CONTRACTOR SHALL PROMPTLY NOTIFY ENGINEER OF RECORD, ARCHITECT, AND FIRST 5 LA UPON RECEIVING SUCH NOTIFICATION OF DISCREPANCY.

MECHANICAL SHEET INDEX

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Project #: **19002647.00**

PROFESSIONAL SEAL

FIRST 5 LA
CAPITAL IMPROVEMENT
PROJECT (CIP) - PHASE I

DESIGN BUILD
BRIDGING DOCUMENTS

AGENCY APPROVAL

DISCLAIMER

REFERENCE SCALE IN INCHES

0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**MIKE IEZZA**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

MECHANICAL SYMBOLS, ABBREVIATION, NOTES AND SHEET INDEX

SCALE

Scale: NONE

SHEET NUMBER

M0.01

00000000.00 1/3/2017 1:50:23 PM Project Name

PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE (COOLING ONLY)

TAG	AREA SERVED	NOMINAL TONS	MINIMUM OUTSIDE AIR (CFM)	SUPPLY FAN							UNIT ELECTRICAL DATA								COOLING COIL - DX							HEATING COIL	REFRIGERANT	SEER (EER)	FILTER TYPE		DISCHARGE DIRECTION
				AIR QUANTITY CFM	QUANTITY	ESP (IN WC)	TSP (IN WC)	MOTOR RPM	BHP	HP	VOLTAGE	PHASES	UNIT LEVEL (CIRCUIT) POWER REQUIREMENTS			DISCONNECT		CONTROLLER STARTER BY		SCCR	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	NET SENSIBLE MBH	NET TOTAL MBH	AMB TEMP (F)				PRE-FILTER	FINAL-FILTER	
													FLA	MCA	MOCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE B)												
RTU-1	FIRST FLOOR	75	6600	22000	2	2	5.941	1887	32.64	40	460	3	134.6	206.5	225	EC	F	MC	VFD	5K	80	67	53.6	52.82	573.37	861.41	95	NO HEATING AT THE UNIT	R-410A	(10.7)	MERV 8	MERV 16	DOWN
RTU-2	THIRD FLOOR	50	5250	17500	1	2	4.996	1672	22.84	30	460	3	74.65	142.75	175	EC	F	MC	VFD	5K	80	67	56.32	55.55	400.58	562.76	95	NO HEATING AT THE UNIT	R-410A	(11.0)	MERV 8	MERV 16	DOWN
RTU-3	SECOND FLOOR	50	5250	17500	1	2	4.996	1672	22.84	30	460	3	74.65	142.75	175	EC	F	MC	VFD	5K	80	67	56.32	55.55	400.58	562.76	95	NO HEATING AT THE UNIT	R-410A	(11.0)	MERV 8	MERV 16	DOWN

PACKAGED ROOFTOP UNIT SCHEDULE - AIR COOLED HEAT PUMP (CONT.)

POWER EXHAUST (NOTE 1 AND 3)															CONTROL TYPE (NOTE 5)	CURB TYPE (NOTE G)	MAX DIMENSIONS			UNIT WEIGHT (LBS)	CURB WEIGHT (LBS)	POWER EXHAUST WEIGHT (LBS)	TOTAL OPERATING WEIGHT (LBS)	AUTOMATIC SMOKE DETECTION SHUT OFF	MANUFACTURER	MODEL	NOTES
AIR QUANTITY CFM	ESP (IN WC)	RPM	POWER EXHAUST ELECTRICAL DATA														LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)								
			BHP	HP	VOLTAGE	PHASES	FLA	MCA	MOCP	DISCONNECT		CONTROLLER/ STARTER		SCCR	MANUFACTRUER	MODEL											
										BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)														
17600	1	609	6.22	7.5	INTEGRAL	INTEGRAL	9.8	INTEGRAL	INTEGRAL	EC	F	MFR	VFD	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	398-13/16	119-3/8	87-1/4	INTEGRAL	-	INTEGRAL	11824	YES	TRANE	SXHLF7540-56CUFE9001	1 THRU 6
13600	1	592	4.02	5	INTEGRAL	INTEGRAL	6.6	INTEGRAL	INTEGRAL	EC	F	MFR	VFD	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	394-9/16	93-7/8	87-1/4	INTEGRAL	-	INTEGRAL	9109	YES	TRANE	SXHLF5040-46JZHE8001	1 THRU 6
13600	1	592	4.02	5	INTEGRAL	INTEGRAL	6.6	INTEGRAL	INTEGRAL	EC	F	MFR	VFD	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	INTEGRAL	394-9/16	93-7/8	87-1/4	INTEGRAL	-	INTEGRAL	9109	YES	TRANE	SXHLF5040-46JZHE8001	1 THRU 6

NOTES:
1. PROVIDE UNIT WITH LOW LEAK DAMPERS AND OSA AIR FLOW STATION PER T-24 REQUIREMENTS.
2. PROVIDE AC UNIT WITH INTELLIPACK BASE RAIL. EXISTING CURB TO REMAIN. CONDENSER SECTION OF AC UNIT SHALL BE SURED TO A NEW SLEEPER RAIL SYSTEM W/ SPRINGS. SLEEPER RAIL SYSTEM BY OTHERS.
3. PROVIDE SHAFT GROUNDING IF REQUIRED IN THE MOTOR SPECIFICATION - 230513
4. UNIT MANF. PROVIDED FOUR (4) UVC LIGHTS, INSTALLED DOWN STREAM OF COOLING COILS. SEPARATE 120V - 20A POWER REQUIREMENT FOR FOUR (4) UV LIGHTS.
5. UNIT MANF. PROVIDED PLASMA AIR SYSTEM. THIS EQUIPMENT IS INSTALLED ON THE ENTERING SIDE OF THE COOLING COIL. REQUIRES SEPARATE 120V POWER.
6. PROVIDE DUCT SMOKE DETECTORS ON BOTH SUPPLY AND REUTRN AIR PLENUM. INTERLOCK THE RTU WITH FIRE ALARM SYSTEM, SYSTEM SHALL BE DE-ENERGIZED UPON SMOKE DETECTION/ALARM FROM THE FIRE-ALARM SYSTEM.

BOILER SCHEDULE

TAG	AREA SERVED	NOMINAL BHP	FUEL	INLET FUEL PRESSURE	TURNDOWN RATIO	INPUT MBTUH/HR	OUTPUT MBTUH/HR	THERMAL EFFICIENCY (%)	MIN FLOW (GPM/DELTA P/DELTA T (F))	MAX FLOW (GPM/DELTA P/DELTA T (F))	PRESURE RELIEF VALVE (PSIG)					SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
												VOLTAGE	PHASES	DISCONNECT		CONTROLLER/ STARTER				
														BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)			
B-1	HHW LOOP	38	NAT. GAS	5.6" - 10.5"	1:6	1260	1058	84	54/2.5/39	132/15.5/16	60	120	1	EC	F	MFR	SS	1010	1032	RAYPAK	1262C	1 & 2

NOTES:
1. PROVIDE B-85 CONTROLLER WHICH INCLUDES BMS GATEWAY - BACnet MS/TP, BACnet IP, AND N2 METASYS OR MODBUS TCP.
2. PROVIDE UNIT MOUNTED CONTROL PANEL W/LCD DISPLAY (VERSA IC INTEGRATED CONTROL) FOR SELF-MODULATION, STATUS, FAULT AND DIAGNOSTICS.

PUMP SCHEDULE

TAG	LOCATION	GPM	PUMP FT. HEAD AT DESIGN	MINIMUM PUMP EFFICIENCY	SUCTION SIZE (IN)	DISCHARGE SIZE (IN)	IMPELLER SIZE (IN)	ELECTRICAL (NOTE 1)								OPERATING WEIGHT (LBS)	VIBRATION ISOLATION		MANUFACTURER	MODEL	NOTES
								HP (NOTE E)	RPM	VOLTAGE	PHASES	DISCONNECT		CONTROLLER/ STARTER			TYPE	DEFL.			
												BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	TYPE (NOTE C)						
P-1	ROOF	71	65	80	1.5	1.25	5.375	5	1800	460	3	EC	F	MC	VFD	206	SPRING	2"	BELL & GOSSETT	E-1510-1P25AD-SS-182T	1

NOTES:
1. PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION 230513.

EXPANSION TANK SCHEDULE

TAG	LOCATION	ACCEPTANCE VOLUME GALLONS	TANK VOLUME GALLONS	INITIAL AIR CHARGE (PSIG)	MAX OPERATING PRESSURE (PSIG)	MAX OPERATING TEMP (F)	ASME RATING PSIG	UNIT DIMENSION		OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
								DIAMETER (IN)	HEIGHT (IN)				
ET-1	ROOF	11.3	33.6	12	125	240	125	16-1/4	42-1/4	383	BELL & GOSSETT	D-60	1, 2

NOTE:
1. THE STEEL EXPANSION TANK SHALL BE PRE-CHARGED WITH REPLACEABLE HEAVY DUTY RUBBER BLADDER AND FURNISHED WITH CALIFORNIA SIGHT GLASS.
2. THE TANK SHALL BE FITTED WITH FITTING RINGS AND A FLOOR MOUNTING SKIRT FOR VERTICAL INSTALLATION.

CHEMICAL POT FEEDER SCHEDULE

TAG	LOCATION	SERVICE	VOLUME (FILL CAP GALLONS)	MAX OPERATING PRESSURE (PSIG)	MAX OPERATING TEMP (F)	INLET/OUTLET SIZE	UNIT DIMENSION		SHIPPING WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
							DIAMETER (IN)	HEIGHT (IN)				
PF-1	ROOF	BOILER B-1	2	300	200	3/4" FNPT	6	21-1/4	23	NEPTUNE	VTF-2HP	-

FAN COIL UNIT SCHEDULE (INDOOR UNITS) - IT/SERVER ROOMS

UNIT TAG	MANUFACTURER & MODEL NO.	AREA SERVED	SUPPLY AIRFLOW (CFM)	AIR TEMPERATURE (°F)				DESIGN COOLING TOTAL CAPACITY (MBH)	ELECTRICAL DATA				DIMENSION (IN.)			OPERATING WEIGHT (LBS.)	REMARKS
				ENTERING		LEAVING			VOLTS	PH	HZ	RATED AMPS	W	H	D		
				(DB)	(WB)	(DB)	(WB)										
FC 1	LG LSN363HLV3	A/V CONTROL ROOM (1ST FLOOR)	1095	80	67	57	-	34.0	208-230	1	60	-	47-1/4	14-23/32	10-7/16	45	1 THRU 4
FC 2	LG LSN363HLV3	STORAGE (2ND FLOOR)	1095	80	67	57	-	34.0	208-230	1	60	-	47-1/4	14-23/32	10-7/16	45	1 THRU 4
FC 3A	LG ARNU363SVA4	SERVER ROOM (3RD FLOOR)	918	80	67	57	-	35.5	208-230	1	60	0.81	46-27/32	13-5/8	10-7/16	40	1 THRU 4
FC 3B	LG ARNU243SKA4	SERVER ROOM (3RD FLOOR)	537	80	67	57	-	24.2	208-230	1	60	0.52	38-3/8	13-15/16	8-1/4	30	1 THRU 4
FC 4A	LG ARNU363SVA4	SERVER ROOM (3RD FLOOR)	918	80	67	57	-	35.5	208-230	1	60	0.81	46-27/32	13-5/8	10-7/16	40	1 THRU 4
FC 4B	LG ARNU243SKA4	SERVER ROOM (3RD FLOOR)	537	80	67	57	-	24.2	208-230	1	60	0.52	38-3/8	13-15/16	8-1/4	30	1 THRU 4

NOTES
1. PROVIDE THERMOSTAT.
2. DISABLE HEATING MODE, FAN COIL SERVING THE IT/SERVER ROOM SHALL ONLY RUN IN COOLING MODE, SET THERMOSTAT AT 85 F (OR LOWER IF REQUIRED BY THE FACILITY).
3. PROVIDE FAN COIL UNITS WITH CONDENSATE PUMPS SEPARATELY, POWER AND DRAIN PER THE ELECTRICAL/PLUMBING CONSTRUCTION DOCUMENTS. FOR EACH INSTANCE REFER TO THE KEY NOTES ON THE FLOOR PLANS.
4. INTERLOCK SPLIT SYSTEMS WITH FIRE ALARM SYSTEM. SYSTEM SHALL BE DE-ENERGIZED UPON ALARM.

CONDENSING UNIT SCHEDULE (OUTDOOR UNITS) - ROOF

UNIT TAG	MANUFACTURER & MODEL NO.	UNIT SERVED	AMBIENT TEMP. (°F.)	DESIGN COOLING		HEATING CAP. (MBH)	EER	SEER	REF. TYPE	ELECTRICAL DATA					OPERATING WEIGHT (LBS.)	REMARKS
				TOTAL (MBH)	SENSIBLE (MBH)					MCA (AMPS)	MOP (AMPS)	VOLTS	PH	HZ		
CU 1	LG LSU363HLV3	FC 1	95	34.0	-	38.9	18.5	10	R410A	23	30	208-230	1	60	150	1, 3 & 4
CU 2	LG LSU363HLV3	FC 2	95	34.0	-	38.9	18.5	10	R410A	23	30	208-230	1	60	150	1, 3 & 4
CU 3	LG ARUN060GSS4	FC 3A FC 3B	95	60.0	-	64.0	10.0	18.9	R410A	25.4	40	208-230	1	60	260	2, 3 & 4
CU 4	LG ARUN060GSS4	FC 4A FC 4B	95	60.0	-	64.0	10.0	18.9	R410A	25.4	40	208-230	1	60	260	2, 3 & 4

NOTES
1. SINGLE POINT POWER CONNECTION & DISCONNECT AT THE OUTDOOR UNIT
2. PROVIDE POWER TO INDOOR UNIT & OUTDOOR UNIT SEPARATELY. PROVIDE MANUFACTURER RECOMMENDED DISCONNECT SWITCH FOR THE OUTDOOR UNIT AND TOGGLE SWITCH FOR THE INDOOR UNIT.
3. RE-USE THE SAME SHAFT FOR THE NEW REFRIGERANT PIPING RUNS.
4. INTERLOCK SPLIT SYSTEMS WITH FIRE ALARM SYSTEM. SYSTEM SHALL BE DE-ENERGIZED UPON ALARM.

SCHEDULE GENERAL NOTES

A. DISCONNECT AND CONTROLLER STARTER FURNISED AND INSTALLED BY:		
	MFR	MANUFACUTURER
	EC	ELECTRICAL CONTRACTOR
	MC	MECHANICAL CONTRACTOR
	MFR/EC	FURNISHED LOOSE BY MENUFACTURER INSTALLED BY ELECTRICAL CONTRACTOR
B. DISCONNECT TYPE:		
	F	FUSED
	NF	NON-FUSED
C. CONTROLLER STARTER TYPE:		
	FV	FULL VOLTAGE
	WYE	WYE DELTA
	SS	SOLID STATE (SOFT START)
	MS	MANUAL STARTER
	VFD	VARIABLE FREQUENCY DRIVE
	VFD/B	VARIABLE FREQUENCY DRIVE WITH BYPASS
D. FAN RPM SHALL NOT EXCEED 110% OF SCHEDULED VALUE, WITH THE SCHEDULED WHEEL TYPE. SUBSTITUTION OF BACKWARDS INCLINED OR BACKWARDS INCLINED AIRFOIL FANS FOR FORWARD CURVED IS ACCEPTABLE IF EFFICIENCY IS NOT LOWER.		
E. NO EQUIPMENT SHALL BE SELECTED ABOVE 90% OF MOTOR NAME PLATE RATING.		
F. MUST BE WITHING +/- 10% OF SCHEDULED RPM.		
G. CURB TYPE:		
	MFR	STANDARD CURB BY MANUFACTURER
	GC	BY GENERAL CONTRACTOR
	SAC	SOUND ATTENUATOR CURB

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Project #: **19002647.00**

PROFESSIONAL SEAL

FIRST 5 LA CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

DESIGN BUILD BRIDGING DOCUMENTS

AGENCY APPROVAL

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**NICHOLAS CASTILLO**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

MECHANICAL SCHEDULES

SCALE

Scale: NONE

SHEET NUMBER

M0.02

1/3/2017 1:50:23 PM Project Name

00000000.00

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	First 5 LA	Report Page: (Page 1 of 19)
Project Address:	750A N Alameda St	Date Prepared: 2/26/2021

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 §140.4, or §141.0(b)2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	04	Total Conditioned Floor Area	50495
02	Climate Zone	9	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	3
☒	Office (B)	☐ Retail (M)	☐	Non-refrigerated Warehouse (S)	
☐	Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐	Healthcare Facility (I)	
☐	High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☒	Other (write in)	See Table J

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

01		02		03	
Air System(s)		Wet System Components		Dry System Components	
☒	Heating Air System	☐	Water Economizer	☒	Air Economizer
☒	Cooling Air System	☒	Pumps	☐	Electric Resistance Heat
	Mechanical Controls	☐	System Piping	☒	Fan Systems
☒	Mechanical Controls (existing to remain, altered or new)	☐	Cooling Towers	☒	Ductwork (existing to remain, altered or new)
		☐	Chillers	☒	Ventilation
		☒	Boilers	☐	Zonal Systems/ Terminal Boxes

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-02-26 11:25:06

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name:	First 5 LA	Report Page: (Page 2 of 19)
Project Address:	750A N Alameda St	Date Prepared: 2/26/2021

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	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)	
Yes	AND	Yes	AND	No	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 / Title 20	Smallest Size Available[1] §140.4(a)	Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
				Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
RTU-1	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	0	0	0	647.67	666	168.02	658.19
RTU-2	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	0	0	0	429.35	458	167.95	598.03
RTU-3	Unitary AC/ Condensers	AC, air-cooled pkg (3 phase)	NA: Load Controls	0	0	0	435.97	458	178.77	579.26
FC-1	Unitary Heat Pumps	Air-cooled, split (3 phase)	NA: Load Controls	29.47	35.2	0	28.01	26.4	1.47	29.11
FC-2	Unitary Heat Pumps	Air-cooled, split (3 phase)	NA: Load Controls	29.47	35.2	0	28.01	26.4	1.47	29.11
FC-3B, 4B	Unitary Heat Pumps	Air-cooled, split (3 phase)	NA: Load Controls	21.43	25.6	0	18.58	19.36	1.06	22.92
FC-3A, 4A	Unitary Heat Pumps	Air-cooled, split (3 phase)	NA: Load Controls	30.97	37	0	28.72	28.4	1.06	34.74

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.*

[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*

[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11

[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Heating Mode				Cooling Mode		
		Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
RTU-1	>=240,000					EER IEER	9.7 11.2	10.7 16.3
RTU-2	>=240,000					EER IEER	10 11.6	11 14.5
RTU-3	>=240,000					EER IEER	10 11.6	11 14.5
FC-1	<65,000		HSPF	8.2	11	SEER	13.0	14
FC-2	<65,000		HSPF	8.2	11	SEER	13.0	14
FC-3B, 4B	<65,000		HSPF	8.2	9	SEER	13.0	18.9
FC-3A, 4A	<65,000		HSPF	8.2	9	SEER	13.0	18.9

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Boiler Efficiency and Controls

01	02	03	04	05	06	07	08	09
Name or Item Tag	Equipment Type[1]	Qty	Rated Inout Capacity (Btu/h)[2,3]	Rated Efficiency	Minimum Efficiency Required per §110.2	Efficiency Unit	Boiler Controls per §140.4(k)	
							Isolation Valve	Temperature Reset
Raypak 1262-C (B-1)	Hot Water, Gas-Fired	1	500,000 to 2,500,000	0.84	0.82	TE	NA: only 1 boiler in plant	Yes

[1] *FOOTNOTES: Use NRCC-PLB to document compliance with domestic water heating equipment.*

[2] *Maximum capacity- minimum and maximum ratings as provided for and allowed by the unit's controls*

[3] *Includes oil-fired (residual)*

G. PUMPS

This table is used to demonstrate compliance with Prescriptive hydronic system requirements found in §140.4(k) applicable to pumps < 5hp.

01	02	03	04	05	06	07	08
Name or Item Tag	Equipment Type	Qty	HP	Controls per §140.4(k)			
				Variable Flow	Hydronic Heat Pump Isolation	VSD on Pumps > 5HP	Differential Pressure Sensor
HW	Primary heating hot water	1	5	NA: <=3 control valves	NA: No hydronic heat pump	NA: Not serving variable flow system	

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name:	RTU-1	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08

Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	22000	BHP	31.47	NA	NA
RF	Return	1	0	BHP	6.22	NA	NA
Total System Design Supply Airflow (CFM):			22000	Total System Design (B)HP:	37.69	Maximum System Fan Power (B)HP:	20.68

System Name:	RTU-2	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08

Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	17000	BHP	19.95	NA	NA
RF	Return	1	0	BHP	4.53	NA	NA
Total System Design Supply Airflow (CFM):			17000	Total System Design (B)HP:	24.48	Maximum System Fan Power (B)HP:	15.98

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	RTU-3	Economizer:[1]	Fixed Temperature	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08

Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	17000	BHP	19.95	NA	NA
RF	Return	1	0	BHP	4.53	NA	NA
Total System Design Supply Airflow (CFM):			17000	Total System Design (B)HP:	24.48	Maximum System Fan Power (B)HP:	15.98

System Name:	FC-1	Economizer:[1]	NA: <=54 kBtu/h cooling	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08

Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1095	BHP	0.13	NA	NA
Total System Design Supply Airflow (CFM):			1095	Total System Design (B)HP:	0.13	Maximum System Fan Power (B)HP:	1.03

System Name:	FC-2	Economizer:[1]	NA: <=54 kBtu/h cooling	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08

Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	1095	BHP	0.13	NA	NA
Total System Design Supply Airflow (CFM):			1095	Total System Design (B)HP:	0.13	Maximum System Fan Power (B)HP:	1.03

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	FC-3B, 4B	Economizer:[1]	NA: <=54 kBtu/h cooling	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08

Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	537	BHP	0.06	NA	NA
Total System Design Supply Airflow (CFM):			537	Total System Design (B)HP:	0.06	Maximum System Fan Power (B)HP:	0.5

System Name:	FC-3A, 4A	Economizer:[1]	NA: <=54 kBtu/h cooling	Economizer Controls:	Designed per §140.4(e) and (m)	System Fan Type:	Constant Volume
01	02	03	04	05	06	07	08

Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF	Supply	1	918	BHP	0.12	NA	NA
Total System Design Supply Airflow (CFM):			918	Total System Design (B)HP:	0.12	Maximum System Fan Power (B)HP:	0.86

[1] *FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*

[2] *The unit used for HP must be consistent for all fans within a system.*

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I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
RTU-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
RTU-3	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
FC-1	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
FC-2	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
FC-3B, 4B	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
FC-3A, 4A	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)*

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Project #: **19002647.00**

PROFESSIONAL SEAL

FIRST 5 LA CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

DESIGN BUILD BRIDGING DOCUMENTS

AGENCY APPROVAL

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**NICHOLAS CASTILLO**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

MECHANICAL T-24 COMPLIANCE FORMS

SCALE

Scale: NONE

SHEET NUMBER

M1.01

1/3/2017 1:50:23 PM Project Name

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J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential or Hotel/Motel spaces
	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04	05	06	07
System Name	RTU-1	System Design OA CFM Airflow[1] 2625	System Design Transfer Air CFM 0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]: Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4: Required Min CFM	Exh. Vent per §120.1(c)4: Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
1st Floor	Office space	17500			2625	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				2625	18	Ventilation for this System Complies?	Yes

04	05	06	07
System Name	RTU-2	System Design OA CFM Airflow[1] 2625	System Design Transfer Air CFM 0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16

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J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]: Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4: Required Min CFM	Exh. Vent per §120.1(c)4: Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
2nd Floor	Office space	17500			2625	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				2625	18	Ventilation for this System Complies?	Yes

04	05	06	07
System Name	RTU-3	System Design OA CFM Airflow[1] 2275	System Design Transfer Air CFM 0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]: Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4: Required Min CFM	Exh. Vent per §120.1(c)4: Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
3rd Floor	Office space	15165			2274.8	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				2275	18	Ventilation for this System Complies?	Yes

04	05	06	07
System Name	FC-1	System Design OA CFM Airflow[1] 30	System Design Transfer Air CFM 0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16

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Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]: Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4: Required Min CFM	Exh. Vent per §120.1(c)4: Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
1F_A/V Control	All others	100			15	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				30	18	Ventilation for this System Complies?	Yes

04	05	06	07
System Name	FC-2	System Design OA CFM Airflow[1] 30	System Design Transfer Air CFM 0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]: Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4: Required Min CFM	Exh. Vent per §120.1(c)4: Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
2F_Tel/Data	Telephone closet	100			15	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				30	18	Ventilation for this System Complies?	Yes

04	05	06	07
System Name	FC-3B, 4B	System Design OA CFM Airflow[1] 19	System Design Transfer Air CFM 0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16

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NRCC-MCH-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	First 5 LA	Report Page:	(Page 13 of 19)
Project Address:	750A N Alameda St	Date Prepared:	2/26/2021

J. VENTILATION AND INDOOR AIR QUALITY

Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]: Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4: Required Min CFM	Exh. Vent per §120.1(c)4: Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Server room	Computer (not printing)	65			9.8	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				19	18	Ventilation for this System Complies?	Yes

04	05	06	07
System Name	FC-3A, 4A	System Design OA CFM Airflow[1] 19	System Design Transfer Air CFM 0	Air Filtration per §120.1(c) and §141.0(b)2 [2] Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]: Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4: Required Min CFM	Exh. Vent per §120.1(c)4: Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]
Server room	Computer (not printing)	65			9.8	0	0	DCV: NA: Not required per §120.1(d)3
								Occ Sensor: NA: Not required space type
17	Total System Required Min OA CFM				19	18	Ventilation for this System Complies?	Yes

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*

[2] *Air filtration requirements apply to the following three system types per §120.1(c)1A : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.*

[3] *Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.*

[4] *See Standards Tables 120.1-A and 120.1-B.*

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STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
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J. VENTILATION AND INDOOR AIR QUALITY

[5] *For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.*

[6] *§120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft^2 or smaller, multipurpose rooms less than 1,000 ft^2, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).*

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(l) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems:	RTU-1	Duct leakage testing triggered for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	No	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
	☐	Outdoors
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
	☐	In an unconditioned crawl space
	☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code

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L. DISTRIBUTION (DUCTWORK and PIPING)

The answers to the questions below apply to the following duct systems:	RTU-2	Duct leakage testing triggered for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	No	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
	☐	Outdoors
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
	☐	In an unconditioned crawl space
	☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code

The answers to the questions below apply to the following duct systems:	RTU-3	Duct leakage testing triggered for these systems?	No

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	No	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
	☐	Outdoors
	☐	In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces
	☐	In an unconditioned crawl space
	☐	In other unconditioned spaces
15		The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16		The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	Duct system shall be sealed in acordance with the California Mechanical Code

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M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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/Nonresidential_Documents/NRCA/

Yes	No	Form/Title	Systems To Be Field Verified	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.		☐	☐
●	○	NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".		☐	☐
○	●	NRCA-MCH-04-A - Air Distribution Duct Leakage		☐	☐
●	○	NRCA-MCH-05-A - Air Economizer Controls		☐	☐
○	●	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.		☐	☐
○	●	NRCA-MCH-07-A Supply Fan Variable Flow Controls		☐	☐
○	●	NRCA-MCH-08-A Valve Leakage Test		☐	☐
●	○	NRCA-MCH-09-A Supply Water Temperature Reset Controls		☐	☐
○	●	NRCA-MCH-10-A Hydronic System Variable Flow Controls		☐	☐
●	○	NRCA-MCH-11-A Automatic Demand Shed Controls		☐	☐
●	○	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		☐	☐
○	●	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		☐	☐
○	●	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in teh scope permit applicant should move this form to "Yes".		☐	☐

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

○	●	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice-Slurry, Eutecti Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".		☐	☐
●	○	NRCA-MCH-16-A Supply Air Temperature Reset Controls		☐	☐
○	●	NRCA-MCH-17-A Condenser Water Temperature Reset Controls		☐	☐
●	○	NRCA-MCH-18-A Energy Management Control Systems		☐	☐
○	●	NRCA-MCH-19-A Occupancy Sensor Controls		☐	☐
○	●	NRCA-MCH-20 Multi-Family Ventilation		☐	☐
○	●	NRCA-MCH-21 Multi-Family Envelope Leakage		☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

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 created by a HERS Provider's registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
○	●	NRCV-MCH-04-H Duct Leakaage Test *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-24 Enclosure Air Leakaage Worksheet *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-27 High-rise Resdential *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-32 Local Mechanical Exhaust *NOTE: Must be completed by a HERS Rater*	☐	☐

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location: M-Sheets

Registration Number: | Registration Date/Time: | Registration Provider: Energysoft

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Project #: **19002647.00**

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**NICHOLAS CASTILLO**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE
MECHANICAL T-24 COMPLIANCE FORMS

SCALE
Scale: NONE

SHEET NUMBER
M1.02

FIRST 5 LA CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

DESIGN BUILD BRIDGING DOCUMENTS

STATE OF CALIFORNIA

Mechanical Systems

NRCC-MCH-E

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CERTIFICATE OF COMPLIANCE			**NRCC-MCH-E**
Project Name:	First 5 LA	**Report Page:**	**(Page 19 of 19)**
Project Address:	750A N Alameda St	**Date Prepared:**	2/26/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: AKSHAR PATEL	Documentation Author Signature: AKSHAR PATEL
Company: IMEG Corp	Signature Date: 02/26/2021
Address: 300 N LAKE AVE	CEA/ HERS Certification Identification (if applicable): -
City/State/Zip: PASADENA CA 91101	Phone: 626-463-2864

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 3 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 documents, 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(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: Prasanth.S.Bandaru	Responsible Designer Signature: PRASANTH BANDARU
Company: IMEG Corp	Date Signed: 2021-02-26
Address: 300 North Lake Avenue, 14th Floor	License: Title
City/State/Zip: Pasadena CA 91101	Phone: Phone

Registration Number:

Registration Date/Time:

Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**NICHOLAS CASTILLO**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

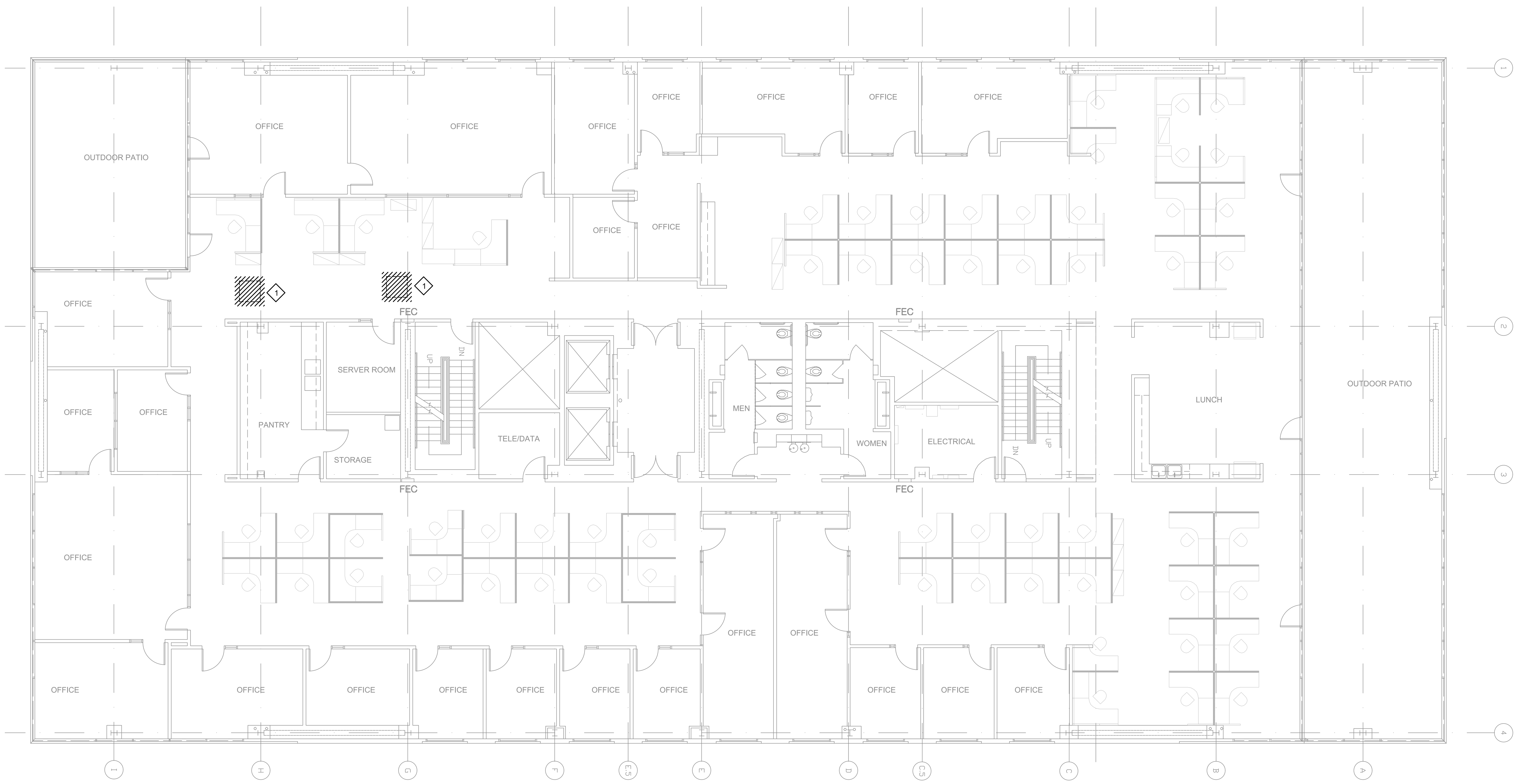
MECHANICAL T-24
COMPLIANCE FORMS

SCALE

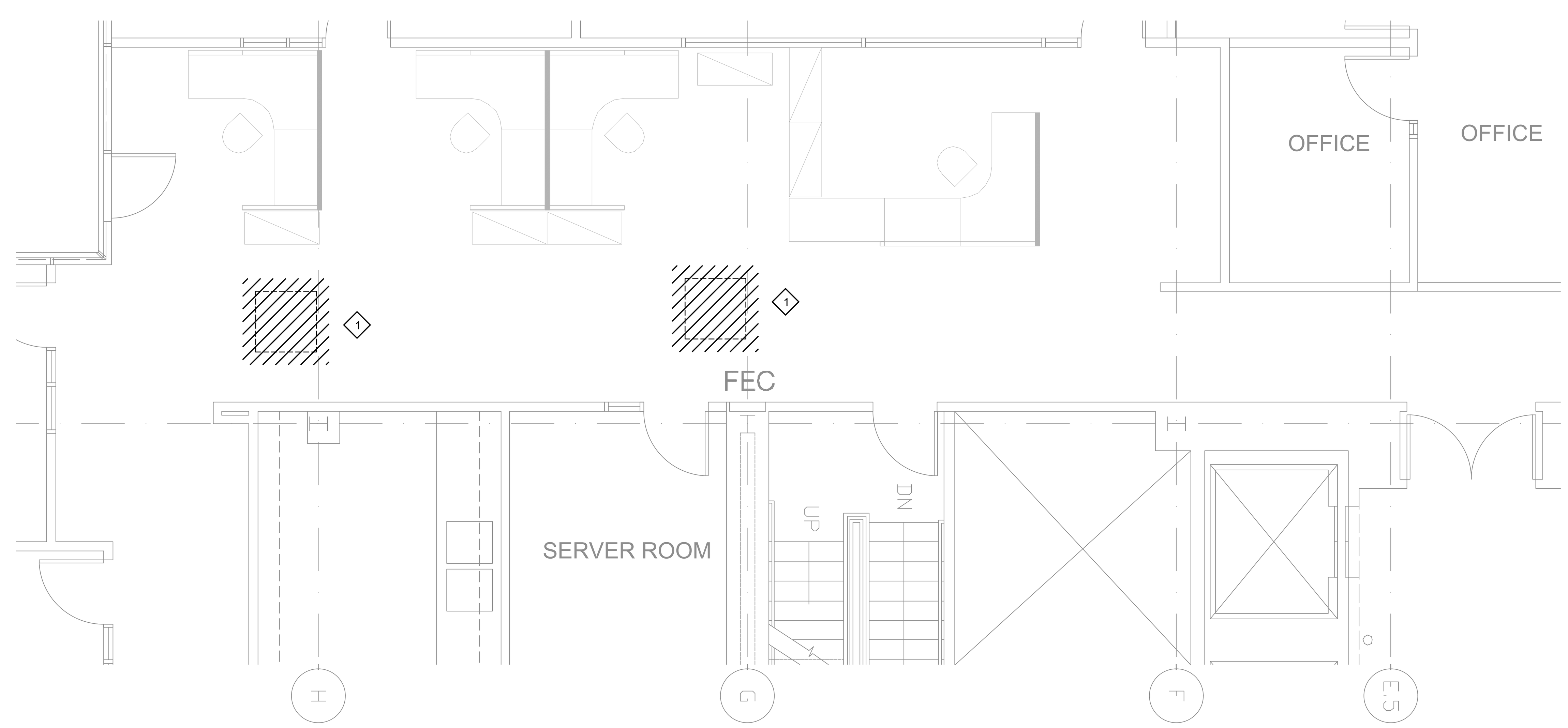
Scale: NONE

SHEET NUMBER

M1.03



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



2 MECHANICAL THIRD FLOOR ENLARGED DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO GENERAL NOTES PROVIDED ON SHEET M0.01.

KEY NOTES

1. DEMOLISH EXISTING FAN COIL UNIT, ITS REFRIGERANT PIPING SYSTEM, POWER, AND CONTROLS. CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO DEMOLITION.

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Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**MIKE IEZZA**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

MECHANICAL DEMOLITION THIRD FLOOR PLAN

SCALE

Scale: AS INDICATED

SHEET NUMBER

MD2.03

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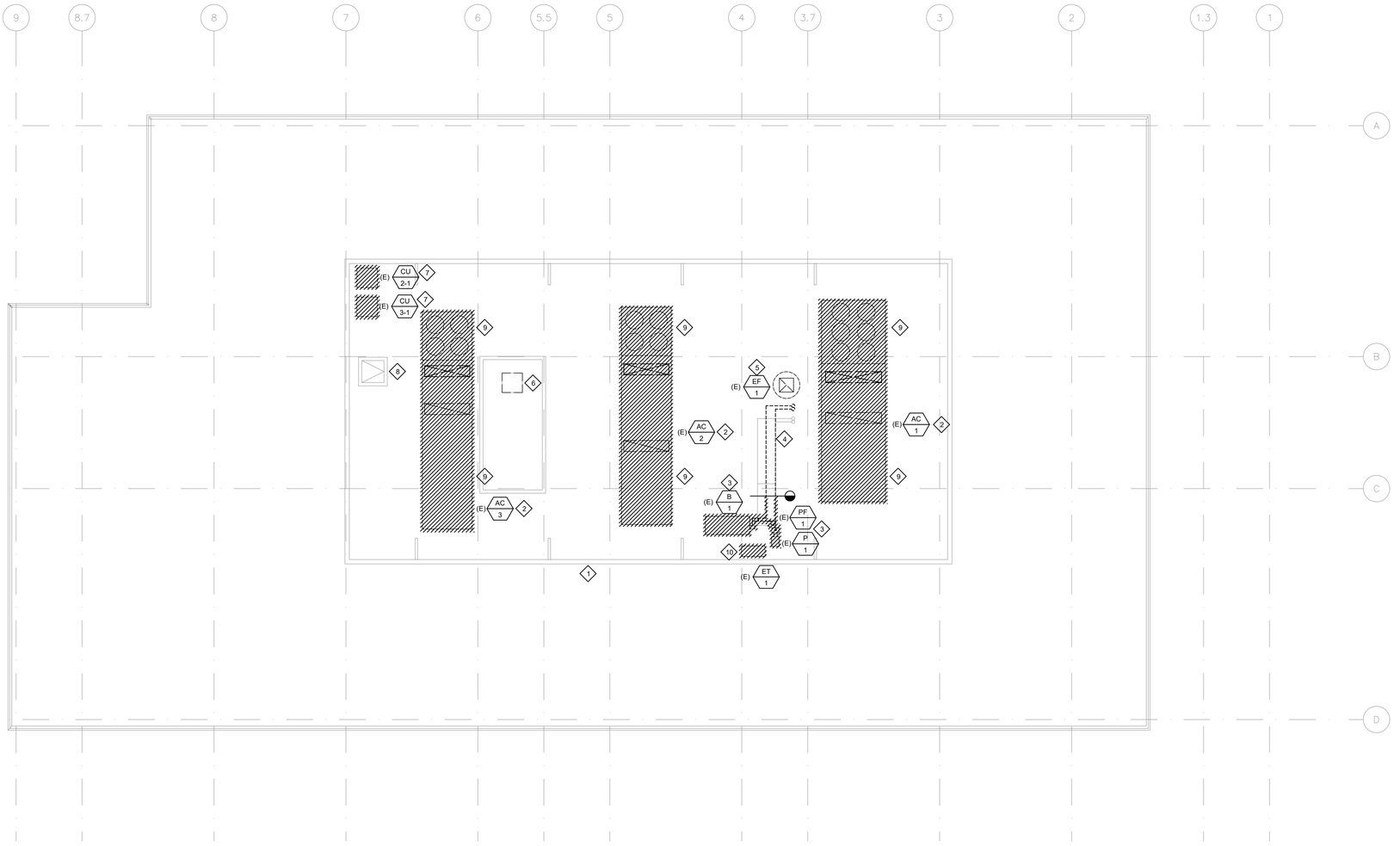

1 MECHANICAL DEMOLITION ROOF PLAN

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

GENERAL NOTES

1. REFER TO GENERAL NOTES PROVIDED ON SHEET M0.01.

KEY NOTES

1. EXISTING MECHANICAL SCREEN TO REMAIN.
2. DEMOLISH (E) AC UNIT, ROOF CURB, POWER, AND CONTROLS. MAIN SUPPLY AND RETURN AIR DUCTWORK RISERS TO REMAIN. CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO DEMOLITION.
3. REMOVE (E) BOILER (B-1), ASSOCIATED SUPPLY/RETURN PIPING, ISOLATION VALVES AND APPURTENANCES, INCLUDING THE FLUE STACK WITH GUY WIRES, AND HEATING HOT WATER PUMP (P-1), CHEMICAL POT FEEDER, AND EXPANSION TANK. DEMOLISH DISTRIBUTION PIPING UP TO POINT OF DISCONNECT. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO DEMOLITION. SHUT-OFF AND DISCONNECT GAS, MAKE-UP WATER, POWER, AND CONTROLS PRIOR TO DEMOLITION. CONTRACTOR TO PROVIDE NEW BOILER SYSTEM,PIPING AND ASSOCIATED DEVICES, ETC. TO BE LOCATED ON THE EXISTING EQUIPMENT PAD. REFER TO REMODEL FLOOR PLANS.
4. (E) MAIN HEATING HOT WATER PIPING AND RISER SUPPLY AND RETURN PIPING TO REMAIN.
5. (E) EXHAUST FAN TO REMAIN.
6. (E) ELEVATOR SHAFT VENT TO REMAIN.
7. DEMO (E) CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING. THERE IS NO EXISTING EQUIPMENT PAD. PATCHED / SEAL / PROVIDE WATER PROOFING OF OPENINGS/HOLES LEFT OVER FROM DEMO WORK THAT WILL NOT BE REUSED.
8. (E) ROOF ACCESS TO REMAIN.
9. (E) ROOF PAD/CURB TO REMAIN. CONTRACTOR TO REMOVE AND PROVIDE NEW CONDENSER SLEEPER RAIL WITH SPRING SYSTEM TO SUPPORT CONDENSER SECTION OF AC UNIT. PROVIDE ROOF REPAIR AS REQUIRED TO ACCOMMODATE NEW SUPPORT SYSTEM FOR CONDENSER SECTION OF REPLACEMENT AC UNITS.
10. (E) EXPANSION TANK, ASSOCIATED PIPING AND DEVICES TO BE DEMOLISHED.

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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**NICHOLAS CASTILLO**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

MECHANICAL DEMOLITION ROOF PLAN

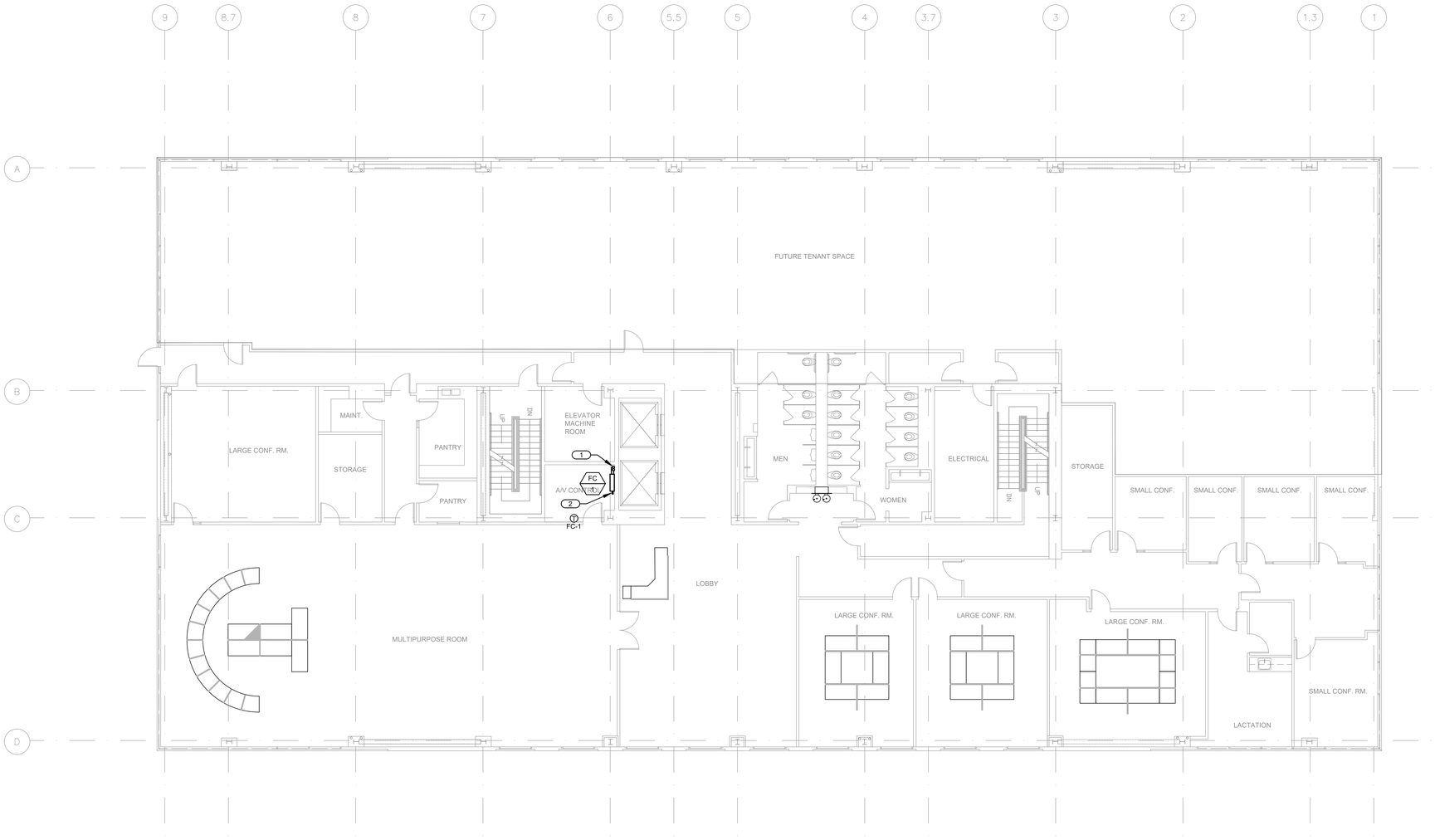
SCALE

Scale: AS INDICATED

SHEET NUMBER

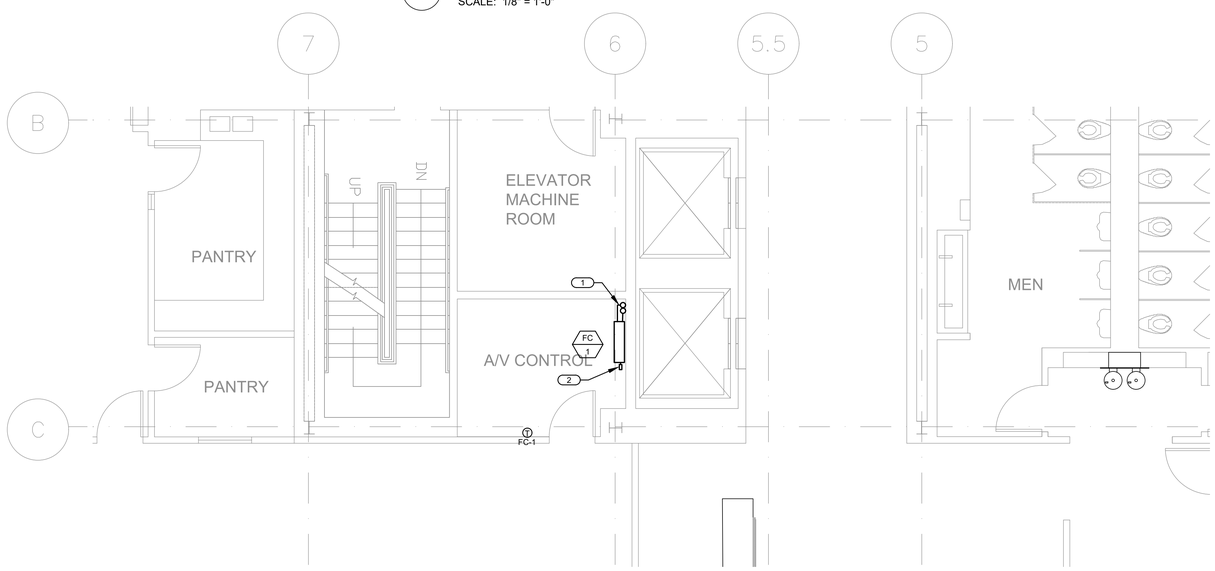
MD2.04

00000000.00 1/3/2017 1:50:23 PM Project Name



1 MECHANICAL FIRST FLOOR REMODEL PLAN

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



2 MECHANICAL FIRST FLOOR ENLARGED PLAN

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

GENERAL NOTES

1. REFER TO GENERAL NOTES PROVIDED ON SHEET M0.01.

KEY NOTES (#)

(1) 1/4" LIQUID LINE INSULATED & 3/8" VAPOR LINE INSULATED WITH PVC JACKET UP ALONG WALL. LOCATE BETWEEN STEEL BEAMS. RUN REFRIGERANT UP THRU FLOORS AND UP THRU ROOF, AND CONNECT TO CU-1.

(2) CONTRACTOR TO PROVIDE COVERED CONDENSATE PUMP WITHIN THE WALL-HUNG FAN COIL UNIT ENCLOSURE; BELOW DRAIN TRAY. PUMP SHALL BE POWERED FROM THE FAN-COIL UNIT. PUMP MANUFACTURER - ASPEN PUMPS, MODEL - MINI AQUA. INSTALL THE PUMP DIRECTLY INSIDE THE FAN COIL UNIT.

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Project #: **19002647.00**

PROFESSIONAL SEAL

FIRST 5 LA CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

DESIGN BUILD BRIDGING DOCUMENTS

AGENCY APPROVAL

DISCLAIMER

Illinois Design Firm Registration #184-000973

REFERENCE SCALE IN INCHES

0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**MIKE IEZZA**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

MECHANICAL FIRST FLOOR REMODEL PLAN

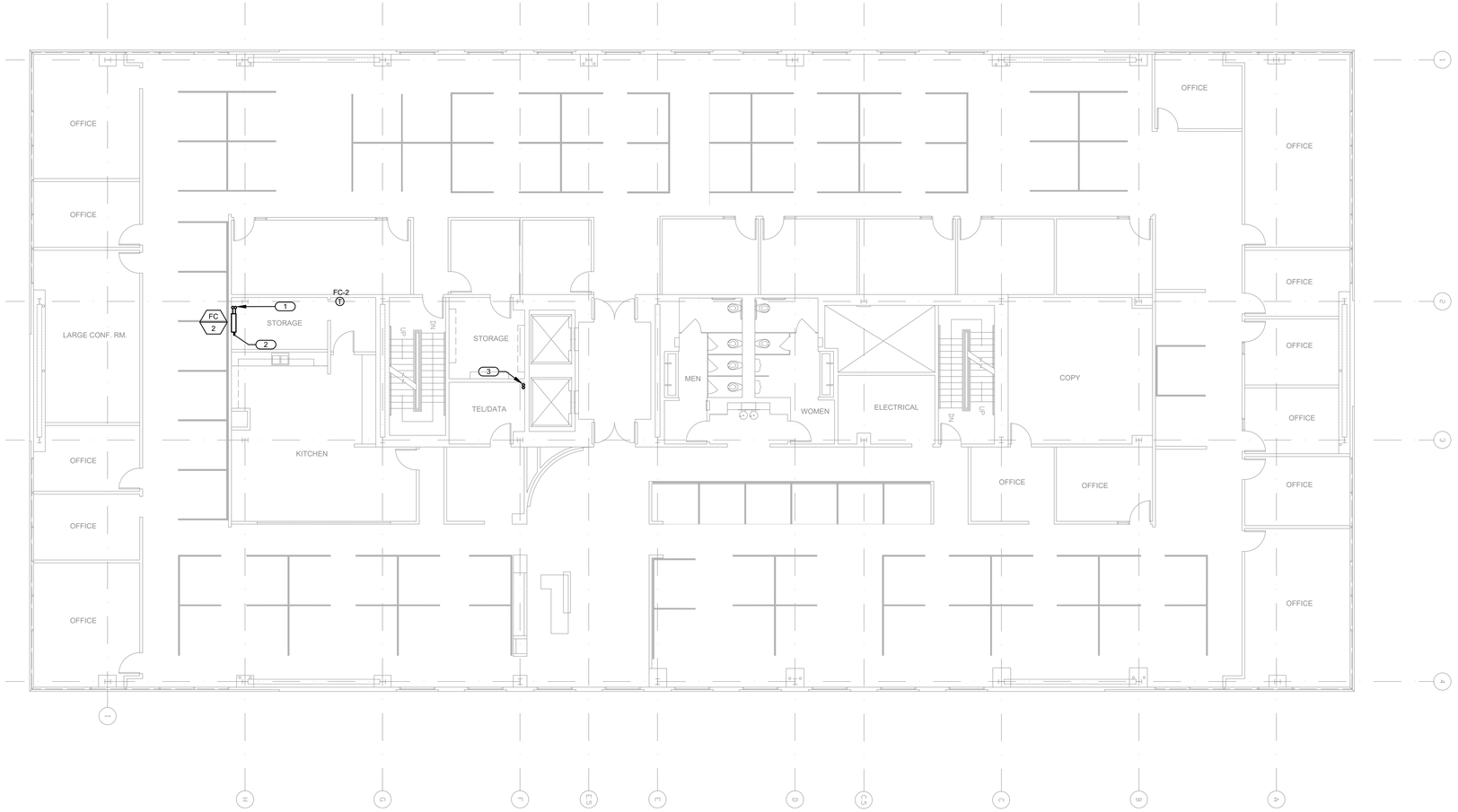
SCALE

Scale: NONE

SHEET NUMBER

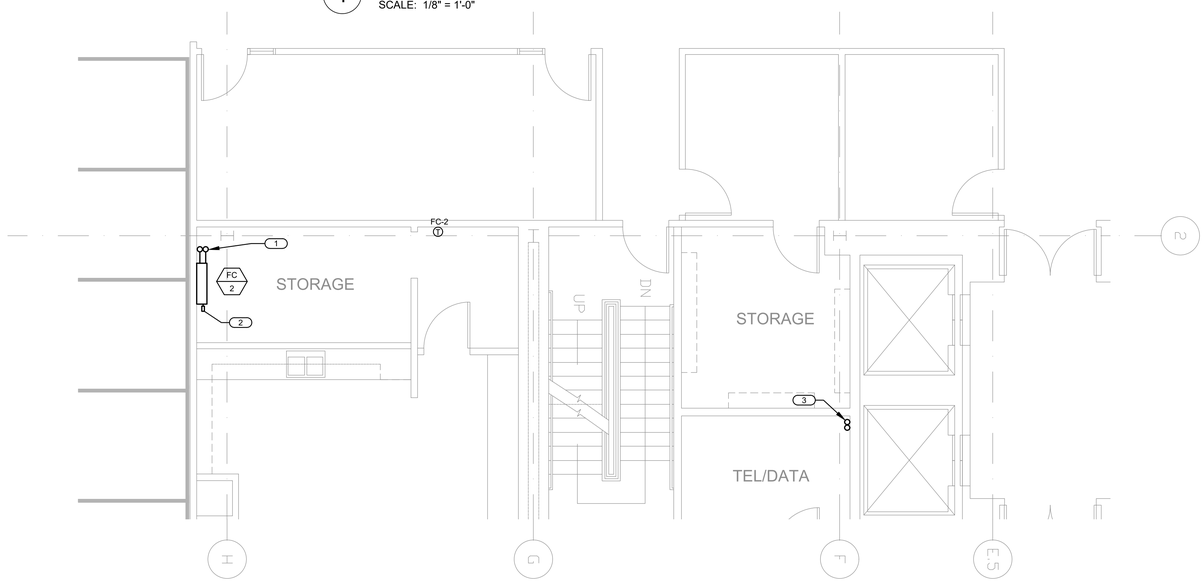
M2.01

00000000.00 1/3/2017 1:50:23 PM Project Name



1 MECHANICAL SECOND FLOOR REMODEL PLAN

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



1 MECHANICAL SECOND FLOOR ENLARGED PLAN

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

GENERAL NOTES

1. REFER TO GENERAL NOTES PROVIDED ON SHEET M0.01.

KEY NOTES

1. 1/4" LIQUID LINE INSULATED & 3/8" VAPOR LINE INSULATED WITH PVC JACKET UP ALONG WALL. LOCATE BETWEEN STEEL BEAMS. RUN REFRIGERANT UP THRU FLOORS AND UP THRU ROOF, AND CONNECT TO CU-2.
2. CONTRACTOR TO PROVIDE COVERED CONDENSATE PUMP WITHIN THE WALL-HUNG FAN COIL UNIT ENCLOSURE; BELOW DRAIN TRAY. PUMP SHALL BE POWERED FROM THE FAN-COIL UNIT. PUMP MANUFACTURER - ASPEN PUMPS, MODEL - MINI AQUA. INSTALL THE PUMP DIRECTLY INSIDE THE FAN COIL UNIT.
3. 1/4" LIQUID LINE INSULATED & 3/8" VAPOR LINE INSULATED WITH PROTECTIVE PVC JACKET UP ALONG WALL FROM FC-1. LOCATE REFRIGERANT PIPING BETWEEN THE STEEL BEAMS AND THE WALL. RUN REFRIGERANT UP THRU ROOF, AND CONNECT TO CU-1.

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REVISIONS

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Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**JULIO ESCOBAR**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

MECHANICAL SECOND FLOOR REMODEL PLAN

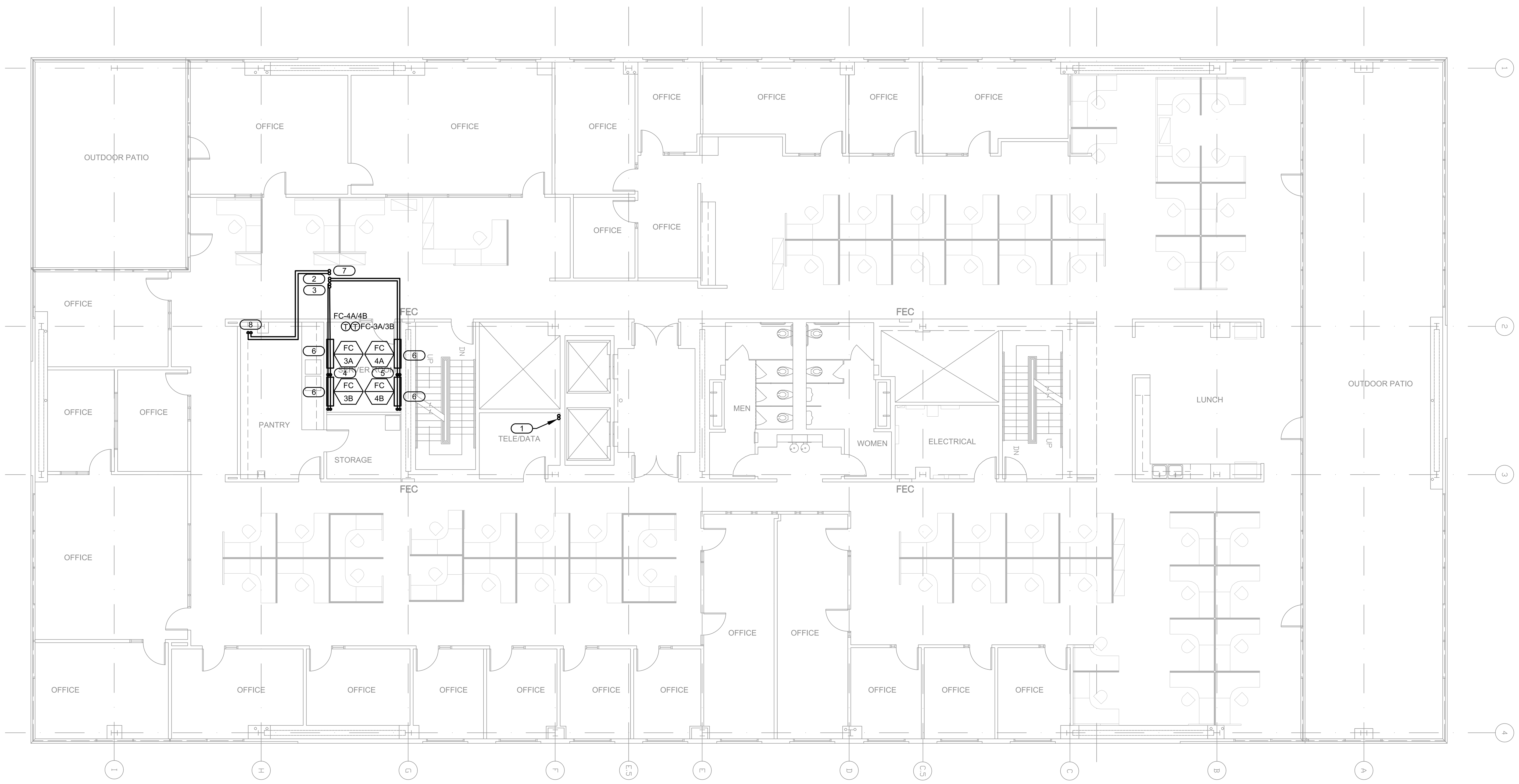
SCALE

Scale: AS INDICATED

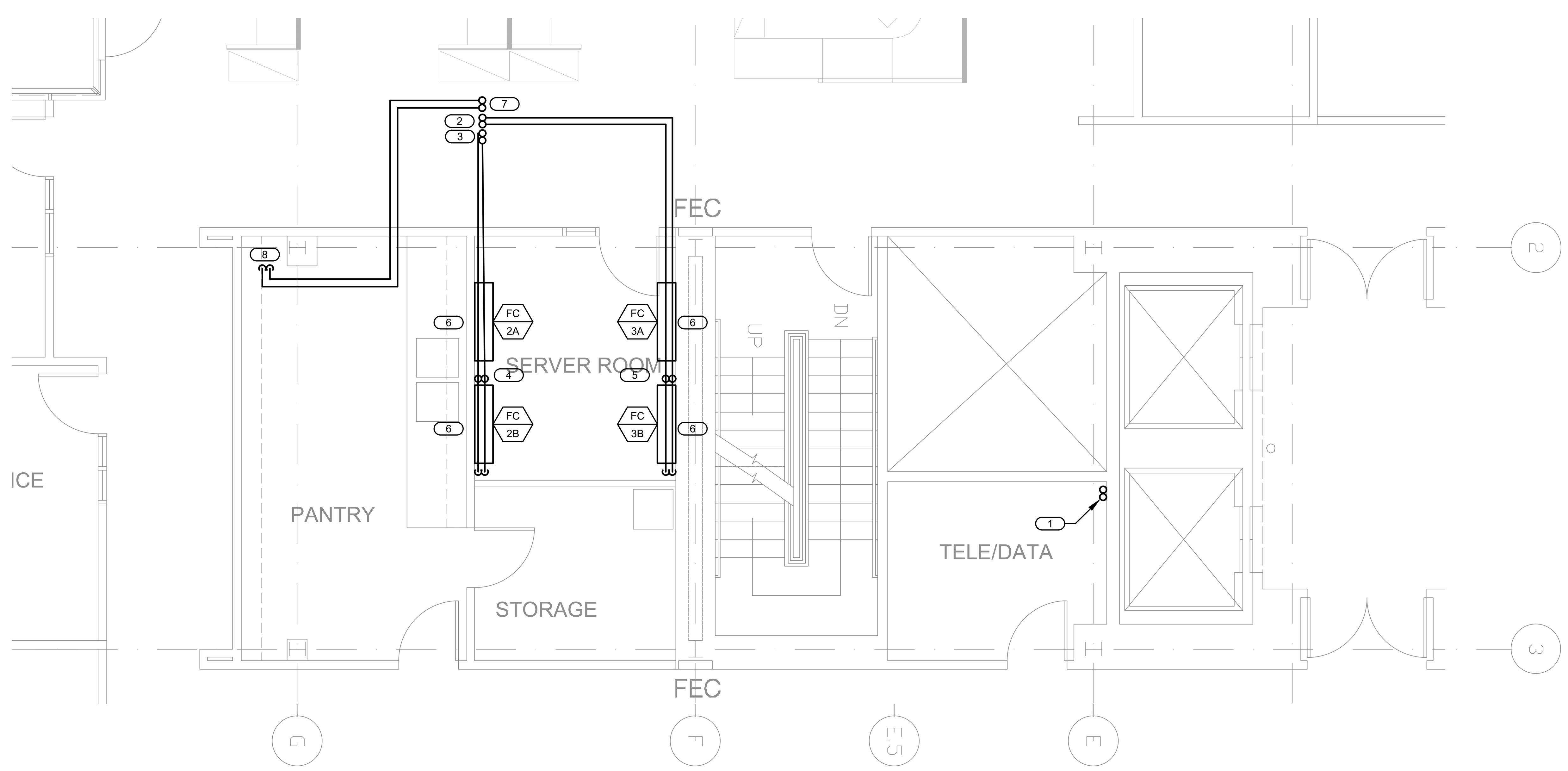
SHEET NUMBER

M2.02

00000000.00 1/3/2017 1:50:23 PM Project Name



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



2 MECHANICAL THIRD FLOOR ENLARGED PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION AND STRICTLY ADHERE TO BASE BUILDING STANDARDS.
2. CONTRACTOR SHALL BE FULLY FAMILIAR WITH EXISTING CONDITION PRIOR TO BIDDING.
3. ALL WORK SHALL COMPLY WITH ALL LATEST REQUIREMENTS OF CALIFORNIA BUILDING, MECHANICAL, GREEN, AND ENERGY CODES.
4. COORDINATE WITH DIVISION 26 FOR PROPER ELECTRICAL REQUIREMENTS OF HVAC EQUIPMENT.
5. COORDINATE WITH STRUCTURAL FOR PROPER MOUNTING AND SUPPORT OF HVAC EQUIPMENT.

KEY NOTES

1. 1/4" LIQUID LINE INSULATED & 3/8" VAPOR LINE INSULATED WITH PROTECTIVE PVC JACKET UP ALONG WALL FROM FC-1. LOCATE REFRIGERANT PIPING BETWEEN THE STEEL BEAMS AND THE WALL. RISE UP THRU ROOF, AND CONNECT TO CU-1.
2. 3/8" LIQUID LINE INSULATED & 5/8" VAPOR LINE INSULATED UP THROUGH ROOF AND CONNECT TO CU-4.
3. 3/8" LIQUID LINE INSULATED & 5/8" VAPOR LINE INSULATED UP THROUGH ROOF AND CONNECT TO CU-3.
4. LG THERMOSTAT CONTROLLER, MODEL PRMTCOOU SERVES BOTH WALL MOUNTED FAN COIL UNITS FC-3A AND FC-3B.
5. LG THERMOSTAT CONTROLLER, MODEL PRMTCOOU SERVES BOTH WALL MOUNTED FAN COIL UNITS FC-4A AND FC-4B.
6. CONTRACTOR TO PROVIDE COVERED CONDENSATE PUMP WITHIN THE WALL-HUNG FAN COIL UNIT ENCLOSURE; BELOW DRAIN TRAY. PUMP SHALL BE POWERED FROM THE FAN-COIL UNIT OR EXTERNALLY (115/1/60) - WHICHEVER IS APPLICABLE. PUMP MANUFACTURER - ASPEN PUMPS, MODEL - MINI AQUA. INSTALL THE PUMP DIRECTLY INSIDE THE FAN COIL UNIT.
7. 1/4" LIQUID LINE INSULATED & 3/8" VAPOR LINE INSULATED WITH PROTECTIVE PVC JACKET UP ALONG WALL FROM FC-2. LOCATE REFRIGERANT PIPING BETWEEN THE STEEL BEAMS AND THE WALL. RUN REFRIGERANT UP THRU ROOF, AND CONNECT TO CU-2.
8. 1/4" LIQUID LINE INSULATED & 3/8" VAPOR LINE INSULATED WITH PROTECTIVE PVC JACKET UP ALONG WALL FROM FC-2 (2ND FLOOR). LOCATE REFRIGERANT PIPING BETWEEN THE STEEL BEAMS AND THE WALL; ENCLOSE THE REFRIGERANT PIPING IN FURRED OUT WALL FOR THE VERTICAL RISER IN THE PANTRY ROOM. RUN THE HORIZONTAL PIPING IN THE CEILING PLENUM SPACE TO REACH OUT AND PENETRATE THE ROOF (KEY NOTE #7) ALONG WITH REFRIGERANT PIPING FROM CU-3 & CU-4.

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SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**MIKE IEZZA**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

MECHANICAL THIRD FLOOR REMODEL PLAN

SCALE

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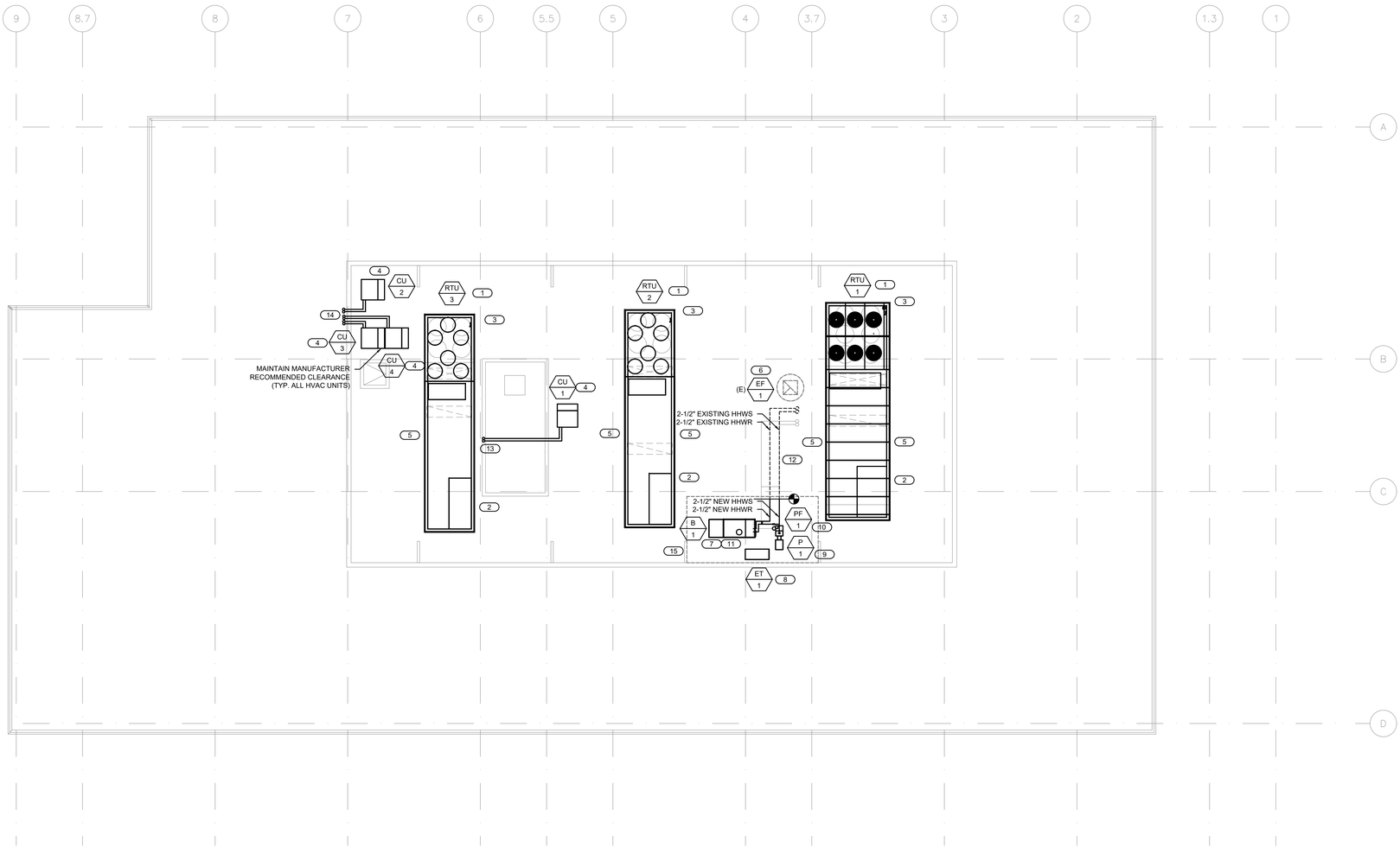
SHEET NUMBER

M2.03

0000000.00 1/3/2017 1:50:23 PM Project Name



1 MECHANICAL ROOF PLAN

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

GENERAL NOTES

1. REFER TO GENERAL NOTES PROVIDED ON SHEET M0.01.

KEY NOTES

1. INSTALL NEW AC UNITS ON EXITING ROOF CURB/PAD. CONDENSING PORTION OF AC UNIT SHALL BE SUPPORTED ON NEW SLEEPER RAIL WITH VIBRATION ISOLATORS (SPRINGS). RE-CONNECT THE EXISTING SUPPLY AND RETURN AIR DUCTS TO THE NEW AC UNITS.
2. EXISTING ROOF PAD AND ROOF CURB TO REMAIN.
3. NEW AC UNIT DISCONNECT PANELS TO BE SUPPORTED AND ANCHORED TO THE EXISTING UNISTRUT SUPPORT SYSTEM.
4. NEW CONDENSING UNITS. REFER TO DETAIL #8/M4.01.
5. CONNECT CONDENSATE DRAIN PIPING FROM NEW AC REPLACEMENT UNIT TO EXISTING CONDENSATE DRAIN PIPING. MODIFY EXISTING CONDENSATE PIPING, DRAIN TRAP SYSTEM AS REQUIRED TO ACCOMMODATE THE CONNECTION OF THE CONDENSATE DRAIN PIPES TO THE NEW AC UNITS. CONDENSATE PIPING SHALL BE TYPE L COPPER. REFER TO PLUMBING DRAWINGS FOR DETAIL.
6. (E) EXHAUST FAN TO REMAIN. (E) EXHAUST FAN IS CURRENTLY AT LEAST 10'-0" AWAY FROM THE (E) AIR INTAKE/ECONOMIZER. CONTRACTOR TO ENSURE THAT THE 2019 CMC MIN. CODE REQUIREMENTS ARE MET WHILE PERFORMING THE REPLACEMENTS OF ROOFTOP UNITS.
7. NEW BOILER REPLACEMENT UNIT. PROVIDE BOILER WITH UNIT MOUNTED CONTROL PANEL AND (N) DISCONNECT SWITCH.
8. NEW HOT WATER HORIZONTAL EXPANSION TANK, DIAPHRAGM TYPE, TO BE SUPPORTED USING THE SAME SUPPORT SYSTEM. MODIFY THE EXISTING SUPPORT SYSTEM AS REQUIRED TO ANCHOR THE NEW EXPANSION TANK.
9. NEW HORIZONTAL END SUCTION HEATING WATER PUMP WITH NEW SUPPORT SYSTEM PER DETAIL #9/M4.02. PROVIDE THE PUMP WITH (N) DISCONNECT PER ELECTRICAL DRAWINGS. PROVIDE THE TEFC MOTOR FOR THE PUMP FOR PROTECTION AGAINST WEATHER.
10. NEW CHEMICAL POT FEEDER, SECURED TO EXISTING CONCRETE PAD.
11. BOILER FLUE STACK SHALL BE LOCATED A MINIMUM OF 10 FEET AWAY FROM THE OUTSIDE AIR LOUVER FROM THE AC UNITS. THE BOILER STACK SHALL TERMINATE AT LEAST 3 FEET ABOVE THE HEIGHT OF THE AC UNIT IF WITHIN 10 FEET OF THE AC UNIT OUTSIDE AIR LOUVERS. GUY WIRE SYSTEM FOR FLUE STACK SHALL BE SUPPORTED FROM THE CONCRETE ROOF STRUCTURE AND NOT THE AC UNITS.
12. EXISTING HOT WATER PIPING TO REMAIN. CONNECT NEW HOT WATER PIPING WITH INSULATION AND PROTECTIVE ALUMINUM PIPE JACKET AT POINT OF CONNECTION.
13. REFER TO REFRIGERANT PIPING PENETRATION DETAIL #4/M4.01.
14. REFER TO REFRIGERANT PIPING PENETRATION DETAIL #5/M4.01.
15. EXISTING CONCRETE PAD ON TOP OF THE CONCRETE SLAB TO REMAIN.

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SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
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Drawn	**NICHOLAS CASTILLO**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

MECHANICAL ROOF PLAN

SCALE

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SHEET NUMBER

M2.04

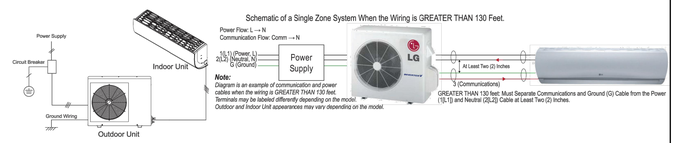
00000000.00 1/3/2017 1:50:23 PM Project Name

CU-1 & CU-2 SYSTEM COMPONENTS

LSU363HLV3	LSN363HLV3	AKB74955602
		

CU-1 & CU-2 SYSTEM WIRING DIAGRAM

LS363HLV3 General Power / Communications System Schematic.

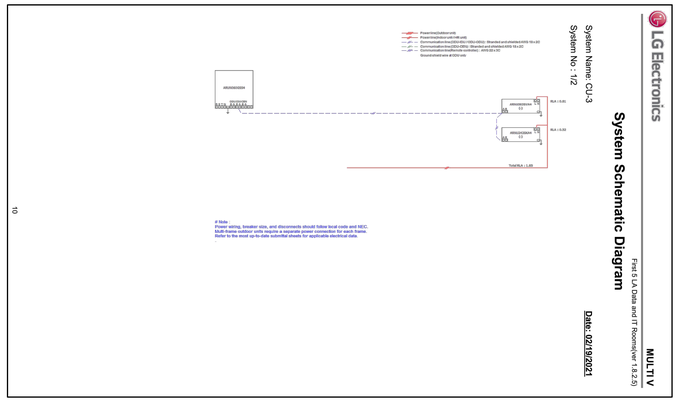


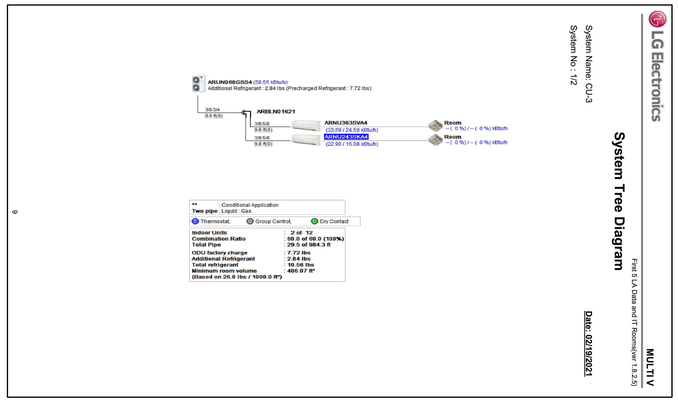
CU-1 & CU-2 SYSTEM PIPING CRITERIA

Piping:	
Liquid Line (in., O.D.)	ø3/8 Flare
Vapor Line (in., O.D.)	ø5/8 Flare
Additional Refrigerant (oz./ft.)	0.38
Min. / Max. Pipe Length (ft.)[2]	9.8 / 164
Piping Length (no add'l refrig., ft.)	24.6
Max. Elevation (ft.)	98.4

1 FC-1/CU-1 & FC-2/CU-2 WIRING DIAGRAM & PIPING CRITERIA

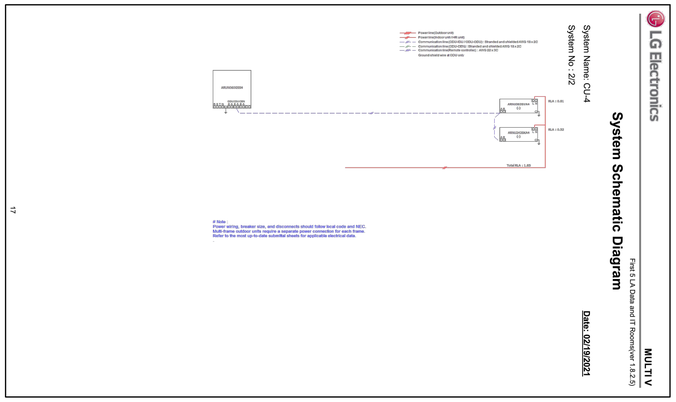
N.T.S.

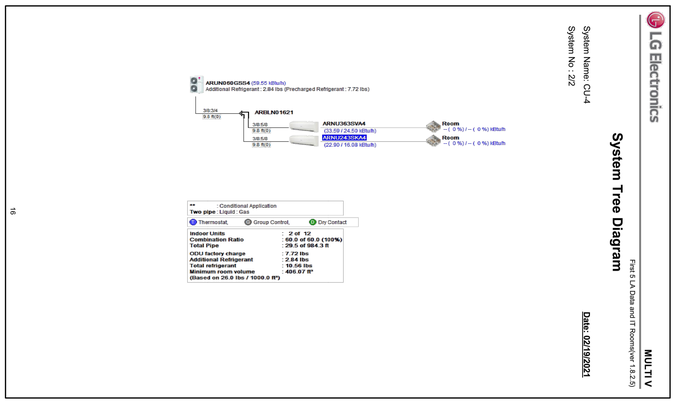




2 FC-3A & FC-3B/CU-3 WIRING DIAGRAM & PIPING CRITERIA

N.T.S.





3 FC-4A & FC-4B/CU-4 WIRING DIAGRAM & PIPING CRITERIA

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SHEET TITLE

MECHANICAL SPLIT SYSTEMS
PIPING & WIRING DIAGRAMS

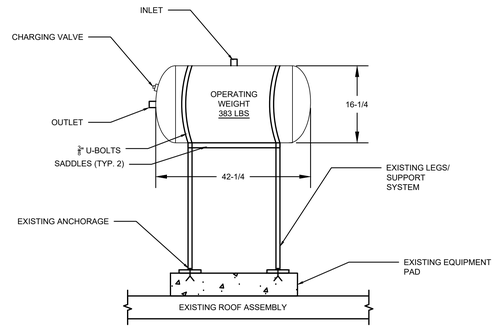
SCALE

Scale: NONE

SHEET NUMBER

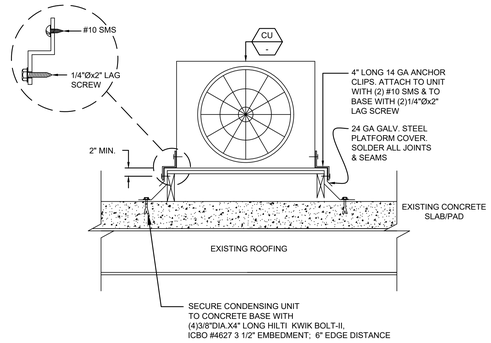
M3.01

00000000.00 1/3/2017 1:50:23 PM Project Name



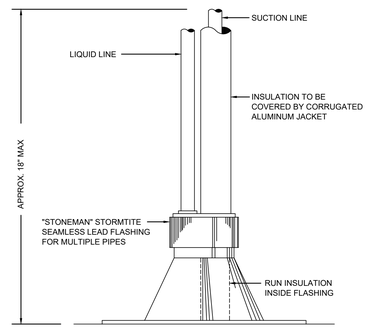
HORIZONTAL EXPANSION TANK MOUNTING DETAIL

NONE	12



CONDENSING UNIT MOUNTING DETAIL

NONE	8

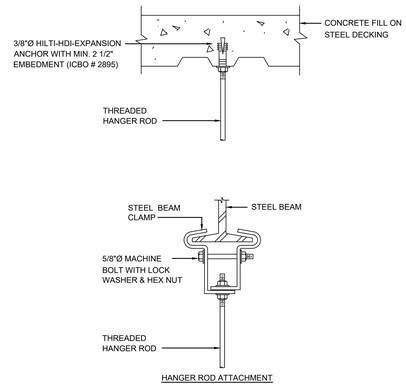


NOTE:

1. THIS CONFIGURATION SHALL BE PRACTICED FOR A SINGLE SET OF REFRIGERANT PIPING SYSTEM PENETRATION; COUPLE OF A LIQUID AND A SUCTION PIPING. FOR AN EXAMPLE, CU-1 REFRIGERANT PIPING PENETRATION.

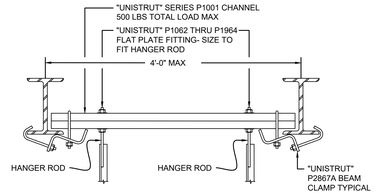
REFRIGERANT PIPING UP THRU ROOF DETAIL

NONE	4



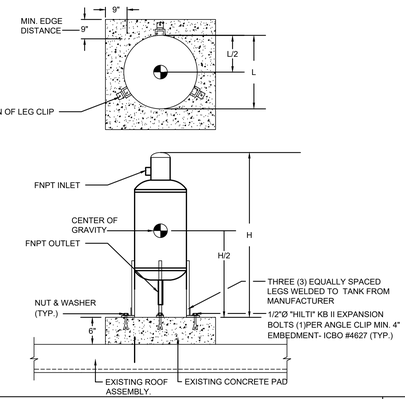
HANGER ROD ATTACHMENT

CONNECTION TO STEEL BEAM DETAIL



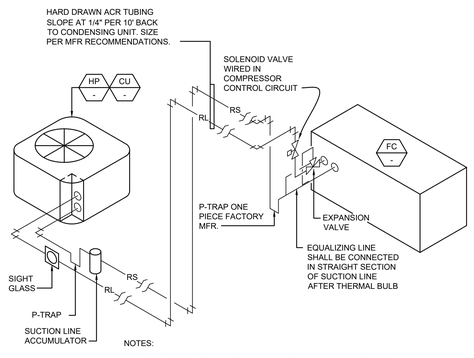
DUCT FITTING LEGEND DETAIL

NONE	1



CHEMICAL POT FEEDER MOUNTING DETAIL

NONE	13

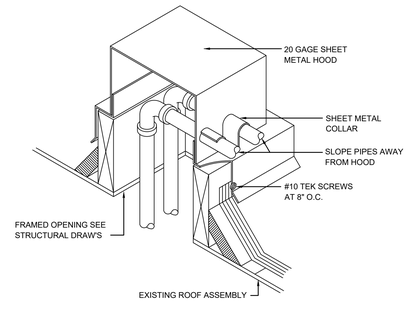


NOTES:

1. ADD 4 OZ. OIL PER 10' OF PIPING OVER 50' MAXIMUM PIPE RUN. INSULATE PIPING PER SPECIFICATIONS.
2. ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS.

FC/HP/CU REFRIGERANT PIPING SCHEMATIC DIAGRAM

NONE	9

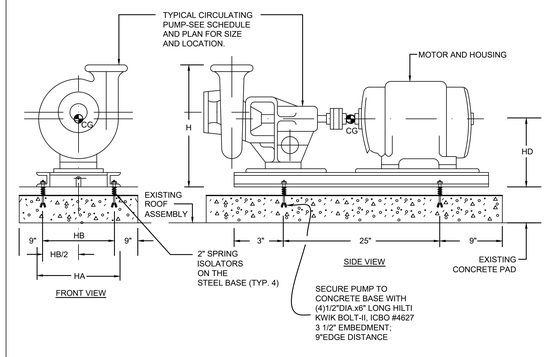


NOTE:

1. THIS CONFIGURATION SHALL BE PRACTICED FOR MULTIPLE REFRIGERANT PIPING SYSTEMS PENETRATION. FOR AN EXAMPLE, SINGLE PENETRATION GROUPING CU-2, CU-3, AND CU-4 REFRIGERANT PIPING PENETRATION.

REFRIGERANT PIPING UP THRU ROOF DETAIL

NONE	5



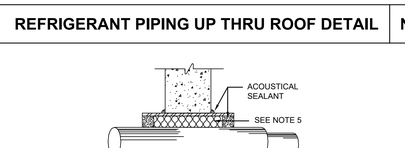
PUMP MOUNTING DETAIL

NONE	14

PROVIDE NEW VIBRATION ISOLATORS TO
MEET EXISTING FOR THE ROOFTOP UNIT AREA
SUPPORTED BY THE VIBRATION ISOLATORS
AND
FOR MOST OF THE PART BEING
SUPPORTED BY
THE EXISTING CURB - USE EXISTING ROOFTOP UNIT CURB

ROOFTOP UNIT MOUNTING DETAIL

NONE	10

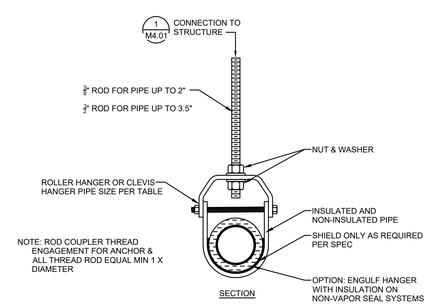


NOTES:

1. PROVIDE ESCUTCHEONS AT EXPOSED LOCATIONS.
2. SPACE BETWEEN PIPE AND SLEEVE SHALL BE FREE OF ANY FOREIGN MATERIALS.
3. PIPE SHALL NOT CONTACT STRUCTURE AT ANY TIME. WEDGES SHALL NOT BE USED TO MAINTAIN PIPE IN POSITION.
4. PIPE MUST BE APPROXIMATELY CENTERED IN OPENING. PROVIDE ADDITIONAL CLEARANCE FOR POSITIONAL CHANGE OF PIPE DUE TO LOADING OF PIPE OR OPERATION OF SYSTEM.
5. AT FIRE-RATED SEPARATIONS, PROVIDE FIRE STOPPING (SEE SPECS). AT NON-FIRE-RATED SEPARATIONS, PROVIDE FIBERGLASS INSULATION 24 KG/CU M MAX. 100% FILL.

PIPE THROUGH WALL

NONE	6



NOTE: ROD COUPLER THREAD ENGAGEMENT FOR ANCHOR & ALL THREAD ROD EQUAL MIN 1 X DIAMETER

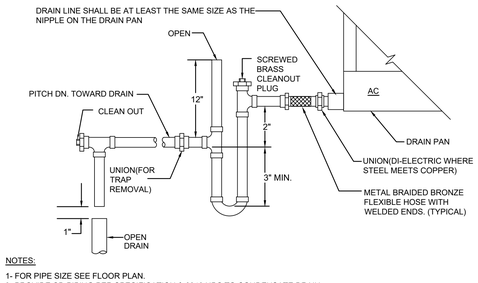
SECTION

PIPE SUPPORT DETAIL

NONE	2

NOT USED

NONE	15

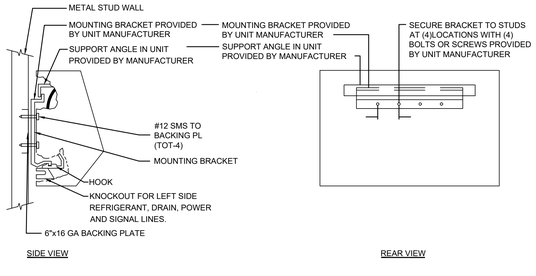


NOTES:

1- FOR PIPE SIZE SEE FLOOR PLAN.
2- PROVIDE CD PIPING PER SPECIFICATION & 2010 UPC TO CONDENSATE DRAIN MECH. EQUIPMENT CONNECTION AS REQUIRED
3- MANUALLY PRIME TRAP PRIOR TO START UP.
4- SUPPORT DRAIN LINE TO PREVENT SAG AND TERMINATE TO AN APPROVED RECEPTOR (LAVATORY TAILPIECE, SERVICE SINK, FLOOR SINK OR ROOF RECEPTOR).
5- INSULATE PIPE ABOVE CEILING, INSULATE CONDENSATE PIPE FROM ICE BIN AND KITCHEN FREEZER AND FRIDGE. INSULATE EMERGENCY DRAIN PIPE.

CONDENSATE DRAIN TRAP

NONE	11

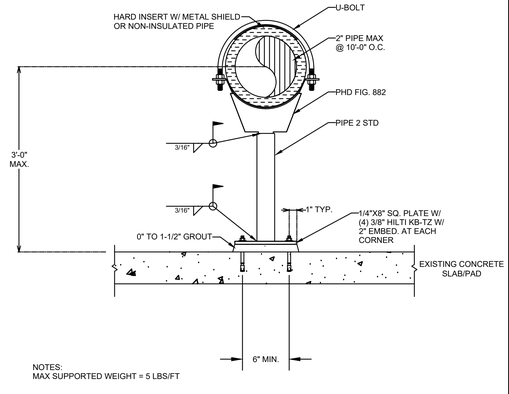


NOTES:

1. FOR DRAIN CONNECTION, REFER TO PLUMBING DRAWINGS.
2. FOR UNITS WITH REMOTE CONTROLLER, WALL MOUNTING BRACKETS SHALL BE INSTALLED AT 20" BELOW THE UNIT MINIMUM.
3. WHERE CONCRETE WALL OCCURS, ANCHOR WITH (4) 1/4"Ø HILTI KB3, 2" MIN EMBED. (ICC# ESR1385).

WALL MOUNTED FAN COIL UNIT

NONE	7



NOTES:
MAX SUPPORTED WEIGHT = 5 LBS/FT

ROOF PIPE SUPPORT DETAIL

NONE	3

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PROJECT (CIP) - PHASE I

DESIGN BUILD
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AGENCY APPROVAL

DISCLAIMER

Illinois Design Firm Registration #184-000973
REFERENCE SCALE IN INCHES
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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	100% DD BRIDGING DOCUMENT
Date	03/09/2021
Job Number	19002647.00
Drawn	MIKE IEZZA
Checked	PAUL DONG
Approved	PAUL DONG

SHEET TITLE

MECHANICAL DETAILS

SCALE

Scale: NONE

SHEET NUMBER

M4.01

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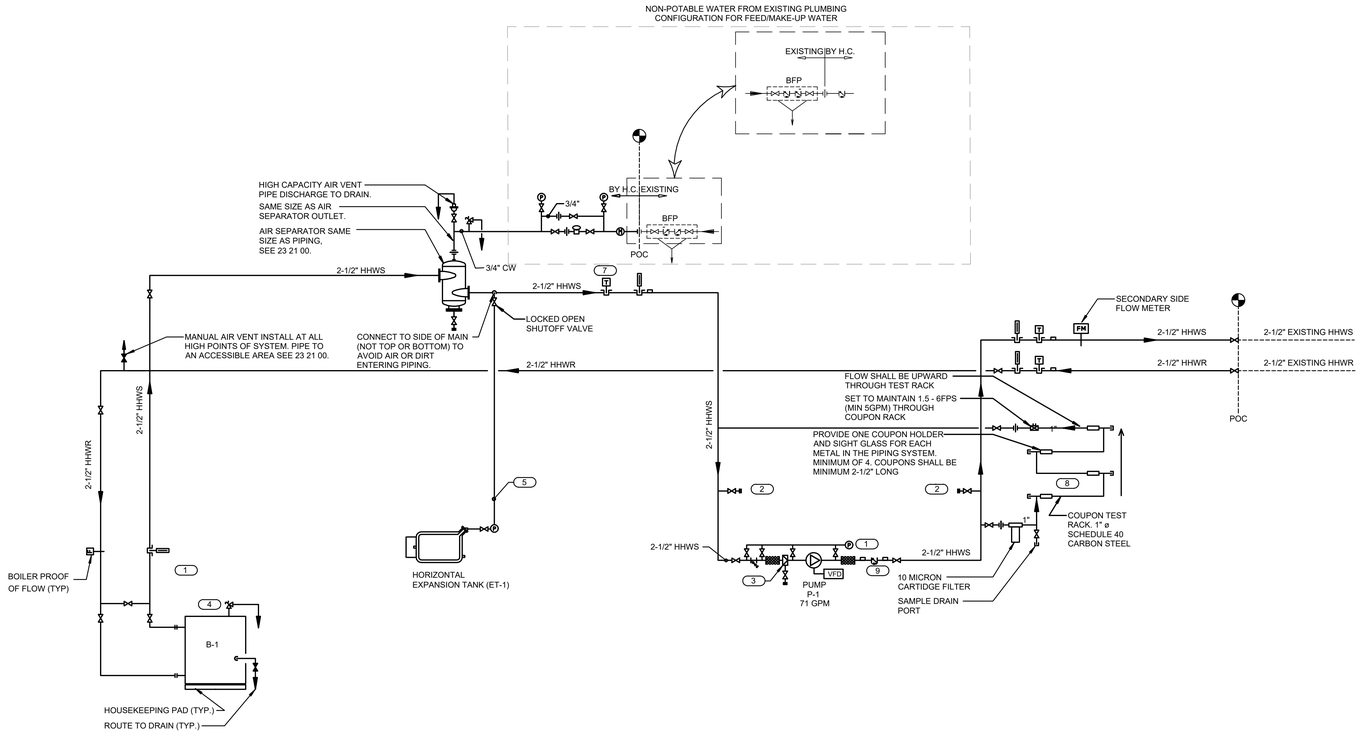


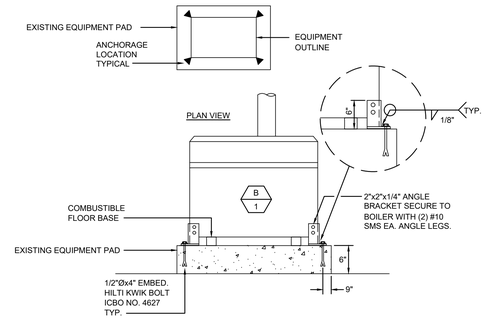
HEATING WATER FLOW DIAGRAM SYMBOL LIST

SYMBOL:	DESCRIPTION:
HHWR	HEATING WATER RETURN
HHWS	HEATING WATER SUPPLY
CW	COLD WATER - POTABLE
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	FLEXIBLE CONNECTION
	PRESSURE/TEMPERATURE TEST PLUG
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
M	METER
P	PRESSURE GAUGE (FURNISHED WITH BALL VALVE)
	SUCTION DIFFUSER WITH SUPPORT FOOT
	AUTOMATIC AIR VENT
	MANUAL AIR VENT W/ BALL VALVE
	DRAIN WITH HOSE CONNECTION, CAP & BALL VALVE
F	FLOW SWITCH
FM	FLOW METER
T	TEMPERATURE SENSOR WITH WELL
	THERMOMETER WITH WELL (FILLED TYPE)
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE
	CONTROL VALVE (TWO-WAY)
	CONTROL VALVE (THREE-WAY)
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE CONNECTION WITH CAP

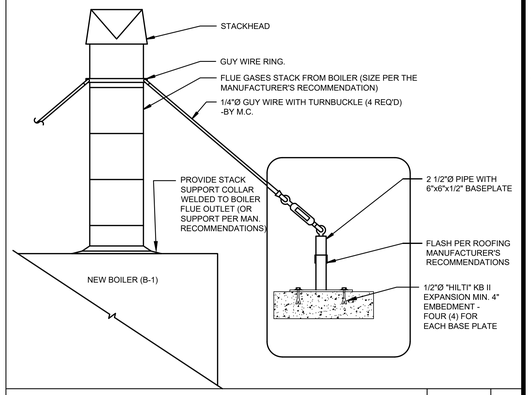
KEYNOTES

1. PRESSURE GAUGE WITH SNUBBER PER SECTION 23 09 13. INSTALL WITH MOUNTING ON WALL, STAND, OR VIBRATION-FREE PIPE ABOVE PUMP FLEXIBLE CONNECTOR. INSTALL FLEXIBLE COPPER TUBING TO PIPING CONNECTIONS TO AVOID VIBRATION DAMAGE TO THE GAUGE. PREFERRED CONNECTION LOCATIONS ARE: (a) JUST UPSTREAM OF STRAINER, (b) GAUGE PORT ON SUCTION DIFFUSER OR BETWEEN STRAINER AND PUMP INLET (c) GAUGE TAPPING ON PUMP INLET FLANGE. (d) GAUGE TAPPING ON PUMP OUTLET FLANGE.
2. PROVIDE 2" CONNECTION TO THE BY-PASS FILTER FEEDER/CHEMICAL POT FEEDER ON THE SUCTION AND DISCHARGE END.
3. REMOVE & RETAIN TEMPORARY STRAINER FROM SUCTION DIFFUSER AT END OF CONSTRUCTION. PROVIDE SUPPORT LEG AS REQUIRED BY MANUFACTURER.
4. INSTALL SAFETY RELIEF VALVE PROVIDED BY BOILER MANUFACTURER. PIPE TO DRAIN. SUPPORT SOLIDLY.
5. SIZE PER DIAPHRAGM TANK MANUFACTURER'S RECOMMENDATIONS BUT NOT SMALLER THAN CONNECTION TO TANK.
6. ARRANGE PIPING SO COILS CAN BE REMOVED WITHOUT REMOVING PIPING ABOVE THE UNIONS OR FLANGES. PIPE LOCATION MUST NOT RESTRICT OPENING OF ACCESS DOORS.
7. TEMPERATURE SENSOR PROVIDED BY BOILER MANUFACTURER, WIRED TO BOILER/BOILER CONTROL PANEL.
8. PROVIDE COUPON TEST RACK AS INDICATED FOR EACH SYSTEM AS SHOWN.
9. TRIPLE DUTY OR BALANCING VALVES ARE NOT PERMITTED ON VARIABLE VOLUME SYSTEMS.

HEATING HOT WATER FLOW DIAGRAM | NONE | 5



BOILER MOUNTING DETAIL | NONE | 1



BOILER FLUE STACK SUPPORT DETAIL | NONE | 2

NOT USED | NONE | 3

NOT USED | NONE | 4

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Approved	**PAUL DONG**

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MECHANICAL DETAILS

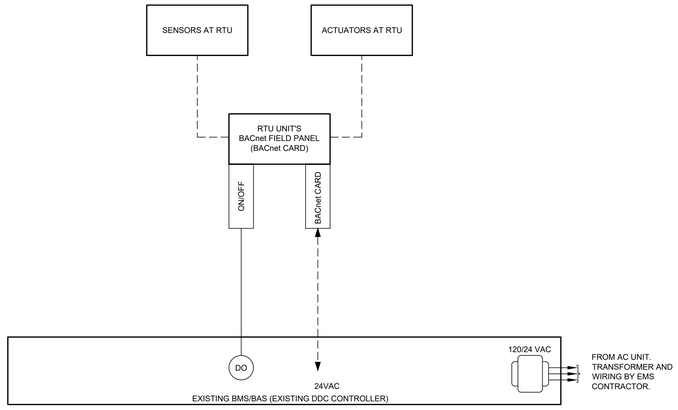
SCALE

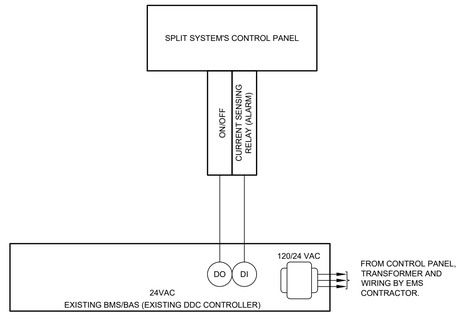
Scale: NONE

SHEET NUMBER

M4.02

NOT USED	NONE	13	NOT USED	NONE	9		
NOT USED	NONE	12	NOT USED	NONE	8	ROOF TOP UNIT CONTROLS DETAIL	NONE 1
NOT USED	NONE	11	NOT USED	NONE	7	NOT USED	NONE 5
NOT USED	NONE	10	NOT USED	NONE	6	PUMP CONTROLS DETAIL	NONE 4

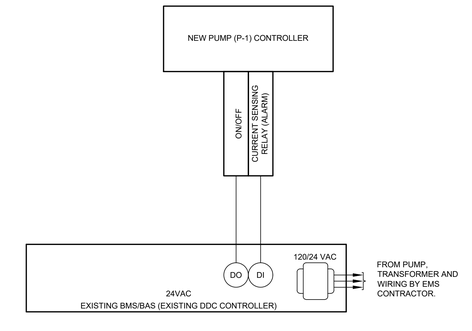




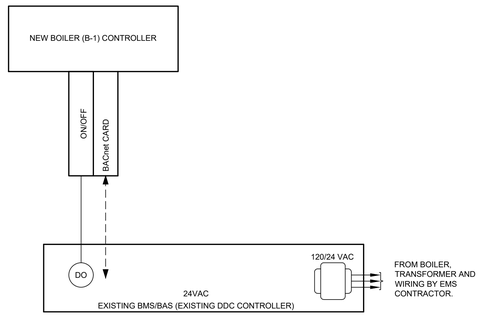
SEQUENCE OF OPERATION:

ROOM TEMPERATURE SHALL BE SET AT 78 F FOR SERVER/IDF/MDF ROOMS UNLESS INFORMED OTHERWISE FROM THE FACILITY.

NOT USED	NONE	2					



NOTE:
1. INTERLOCK PUMP (P-1) WITH BOILER (B-1). THE PUMP SHALL BE CONTROLLED BY BOILER AS PER THE LOAD REQUIREMENT.



NOT USED	NONE	10	NOT USED	NONE	6	BOILER CONTROLS DETAIL	NONE 3

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SHEET TITLE

MECHANICAL CONTROLS

SCALE

Scale: NONE

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00000000.00 1/3/2017 1:50:23 PM Project Name

PIPE SPECIFICATION

SANITARY SEWER AND VENT PIPING

1. CAST IRON HUBLESS, SERVICE WEIGHT WITH NEOPRENE GASKETS AND STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES. W/ 4 BENDS COUPLING

DOMESTIC WATER PIPING

1. COPPER TUBING, DOMESTIC WATER TYPE L HARD DRAWN WITH CAST BRASS OR WROUGHT COPPER FITTINGS.
2. UNDERGROUND INSIDE OF BUILDING FLOOR COPPER TUBING, TYPE k HARD DRAWN WITH CAST BRASS OR WROUGHT COPPER FITTINGS.
3. COPPER TUBING, CONDENSATE DRAIN TYPE M SOFT DWV WITH WROUGHT COPPER FITTINGS.

NATURAL GAS (INSIDE OF BUILDING)

1. STEEL PIPE, SCHEDULE 40 BLACK WITH MALLEABLE IRON OR FORGED STEEL WELDING TYPE FITTINGS. THREADED FITTINGS FOR PIPE SIZES 2" AND SMALLER. WELDED FITTINGS FOR 2 1/2" AND LARGER.

FIRE PROTECTION (INSIDE OF BUILDING)

1. PIPE & FITTINGS AS PER N.F.P.A. 13, EXCEPT NO THINWALL PIPE WILL BE ACCEPTED.
2. STEEL PIPE & FITTINGS ASTM A53, SCHEDULE 40 BLACK WITH CAST IRON OR FORGED STEEL FITTINGS. THREADED FITTINGS FOR PIPE SIZES 2" AND SMALLER. VICTAULIC COUPLING GROOVE JOINTS FOR 2 1/2" AND LARGER.

ANCHORAGE

CUTTING , BORING, SAW CUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWING OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBS, SECTIONS 1616A.1.18 THROUGH 1616A.26 AND ASCE 7-10 CHAPTER 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND THE ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WIT THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OR RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E);

MP☐ MD☐ PP☐ E☐ - OPTION 1 DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ - OPTION 2 SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM # 0043-13)

MP☐ MD☐ PP☒ E☐ - OPTION 3 SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2019), INCLUDING ANY ADDENDA, FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

FIRE NOTE

FIRE WATCH SHALL BE IMPOSED IN-SITE FACILITY, WHEN ANY EXISTING FACILITY FIRE ALARM AND/OR AUTOMATIC FIRE SPRINKLER SYSTEM IS IMPAIRED. FIRE WATCH PERSONNEL SHALL BE PROVIDED WITH AT LEAST ONE APPROVED MEANS FOR NOTIFICATION OF THE FIRE DEPARTMENT AND THEIR SOLE DUTY SHALL BE TO PERFORM CONSTANT PATROL AND WATCH FOR THE OCCURRENCE OF FIRE. CFC 33

APPLICABLE CODES

PART 1 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATION CODE, TITLE 24 C.C.R.

PART 2 2019 CALIFORNIA BUILDING CODE, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS).

PART 3 2019 CALIFORNIA ELECTRICAL CODE, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION NFPA).

PART 4 2019 CALIFORNIA MECHANICAL CODE, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO).

PART 5 2019 CALIFORNIA PLUMBING CODE, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO).

PART 6 2019 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.

PART 7 CURRENTLY VACANT.

PART 8 2019 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R

PART 9 2019 CALIFORNIA FIRE CODE, TITLE 24 C.C.R (2015 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL) .

PART 10 2019 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2015 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH AMENDMENTS)

PART 11 2019 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN CODE), TITLE 24 C.C.R.

PART 12 2019 CALIFORNIA REFERENCED STANDARD CODE, TITLE 24 C.C.R. 2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARD CHAPTER 35.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).

NFPA 13 AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED) 2019 EDITION.

NFPA 14 STANDPIPE SYSTEM (CALIFORNIA AMENDED) 2019 EDITION

NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2018 EDITION

NFPA 17A WET CHEMICAL EXTINGUISHING SYSTEM 2020 annual revision EDITION

NFPA 24 PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED) 2019 EDITION.

NFPA 25 STANDARD FOR THE INSPECTION TESTING AND MAINTENANCE OF WATER BASE FIRE PROTECTION 2020 EDITION.

NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) 2019 EDITION (NOTE: SEE UL STANDARD 1971 FOR VISUAL DEVICES)

NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVE

NFPA 101 LIFE SAFETY 2018 EDITION

TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

PLUMBING LEGEND

SYMBOL	ABBREV	DESCRIPTION
	SS OR W	SOIL OR WASTE BELOW FLOOR
	SS OR W	SOIL OR WASTE ABV FLOOR
	V	SANITARY VENT
SD	SD	STORM DRAIN BELOW FLOOR
SD	SD	STORM DRAIN ABV FLOOR
OD	OD	OVERFLOW DRAIN ABV FLOOR
	CW	COLD WATER
ECW	ECW	EXISTING COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
CD	CD	CONDENSATE DRAIN
TP	TP	TRAP PRIMER
G	G	FUEL GAS
F	F	FIRE LINE
MPG	MPG	MEDIUM PRESSURE GAS
EMPG	EMPG	EXISTING MEDIUM PRESSURE GAS
TW	TW	TEMPERED WATER
TWR	TWR	TEMPERED WATER RETURN
		PIPE - UP OR RISER
		PIPE - DOWN OR DROP
		UNION
	PRV	PRESSURE RELIEF VALVE
	SOV	SHUT OFF VALVE
	SOC	GAS SHUT OFF COCK
	CV	CHECK VALVE
	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE IN YARD BOX
	WCO/CO	WALL CLEANOUT/ABOVE FLOOR CLEANOUT
	FD	FLOOR DRAIN
X XX - -		FIXTURE/EQUIPMENT IDENTIFICATION
X XX		DETAIL & SHEET NUMBERS
	(E) PLUMBING DEMO	(E) PLUMBING DEMO FAUCET, FLUSH VALVES OR FIXTURE TO BE DISCONNECTED AND DEMO
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT
	VTR	VENT THRU ROOF
	AFF	ABOVE FINISHED FLOOR
	AP	ACCESS PANEL (WALL /CEILING)
	BFF	BELOW FINISHED FLOOR
	CONC	CONCRETE
	CONT	CONTINUATION
	ELEV	ELEVATION
	(E)	EXISTING
	FDC	FIRE DEPARTMENT CONNECTION
	BEL	BELOW
	FFE	FINISH FLOOR ELEVATION
	FLR	FLOOR
	(N)	NEW
☒	FS	FLOOR SINK
	FU	FIXTURE UNITS
	GPF	GALLONS PER FLUSH
	GR	GRADE
	HB	HOSE BIBB
	HDR	HEADER
	IE	INVERT ELEVATION
	NTS	NOT TO SCALE
	TYP	TYPICAL
	W/AP	WITH ACCESS PANEL
	W/	WITH
	YB	YARD BOX

PLUMBING GENERAL NOTES

1. OFFSET PIPES AS REQUIRED TO CLEAR MECHANICAL DUCTWORK AND STRUCTURAL CONDITIONS.
2. FURNISH AND INSTALL A SHUT-OFF VALVE, UNION, PLUG COCK OR STOP AT EACH PIECE OF EQUIPMENT OR APPLIANCES FURNISHED BY OTHERS REQUIRING WATER, DRAIN OR GAS .
3. CONTRACTOR SHALL REMOVE, REPLACE OR DEMO EXISTING PLUMBING FIXTURES FAUCETS/ ACCESSORIES INDICATED ON PLANS. REPAIR AND PAINT EXISTING WALLS OR CABINETS TO MATCH EXISTING WALLS/CABINET INCLUDING SURFACE/COLOR
4. PROVIDE AND INSTALL NEW DOMESTIC CW SOV, SANITARY TEES AND WYES COMBY'S AT EACH MAIN WATER, SANITARY SEWER OR VENTS POINT OF CONNECTION.
5. VERIFY ALL EXISTING FIXTURE HEIGHTS PRIOR TO ROUGH-IN. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & ELEVATION OF ALL PLUMBING FIXTURES.
6. SHUT-OFF VALVE OR ANGLE STOPS SHALL BE INSTALLED AT EACH PLUMBING FIXTURES, EQUIPMENT OR APPLIANCES EASILY ACCESSIBLE LOCATION FOR SERVICE.
7. OPEN HOLES ON EXISTING CONCRETE FLOORS OR WALLS REQUIRE X-RAY AND STRUCTURAL APPROVAL.
8. ALL PIPING OR HANGER PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE PROTECTED WITH UL LISTED FIRESTOP SYSTEM METHOD.
9. CONTRACTOR SHALL NOT CUT OR DAMAGE ANY STRUCTURAL MEMBER NOT SPECIFICALLY DETAILED ON DRAWINGS OR COORDINATE BY ARCHITECT.
10. ALL PLUMBING WORK SHALL COMPLY WITH CURRENT CODE, SPECIFICATION AND BASIC PLUMBING MATERIALS AND METHODS
11. ALL PLUMBING FIXTURES INCLUDING FAUCETS & FLASH VALVES EXISTING OR NEW SHALL BE CLEAN AND POLISH IN SATISFACTORY BY THE OWNER.
12. FLUSHING AND DISINFECTING DOMESTIC PORTABLE WATER SYSTEM: SHALL COMPLY WITH ANY OF THE THREE METHODS OF CHLORINATION EXPLAINED IN AWWA C651-92
13. REPAIR, PATH AND PAINT ANY OPENING TO EXISTING CEILING, WALLS OR FLOORS AS REQUIRED FOR ANY PLUMBING RENOVATION AND MATCH EXISTING FINISHED SURFACE CONDITION.
14. DAMAGE FROM DEMOLITION SHALL BE PATCHED OR REPAIRED TO MATCH EXISTING. PAINT TO MATCH EXISTING. COORDINATE WITH ARCHITECT FOR SURFACE FINISHED.
15. ALL CONDENSATE AND HOT WATER PIPING SHALL BE INSULATED TO A MINIMUM 1" THICK UNLESS OTHERWISE NOTED. CONTRACTOR TO REPAIR OR RE-INSULATE ANY DAMAGED INSULATION AS REQUIRED AT NO CHARGE TO OWNER.
16. ALL (E) PIPING TO REMAIN, UNLESS OTHERWISE NOTED.
17. ALL WORK SHALL STRICTLY ADHERE TO BASE BUILDING STANDARDS.
18. CONTRACTOR SHALL BE FULLY FAMILIAR WITH EXISTING CONDITIONS PRIOR TO START OF WORK.
19. ALL WORK SHALL COMPLY WITH LATEST REQUIREMENTS OF CALIFORNIA BUILDING CODES, PLUMBING , GREEN, ENERGY CODES AND AHJ.
20. CONTRACTOR SHALL COORDINATE (E) PARTITION TYPES AND WALL ASSEMBLIES.
21. COORDINATE WITH DIVISION 26 FOR PROPER ELECTRICAL DISCONNECTS AND SHUT OFF OF (E) PLUMBING EQUIPMENT.
22. CONTRACTOR SHALL CAP AND SEAL AIR TIGHT PIPING INDICATED TO BE REMOVED.
23. CONTRACTOR SHALL PROVIDE ISOLATION VALVES AND CAP WATER TIGHT ALL HOT WATER PLUMBING INDICATED TO BE REMOVED.
24. (E) PLUMBING EQUIPMENT WITHIN PROJECT SCOPE TO BE RE-USED SHALL BE INSPECTED, MAINTENANCE , REPAIRED OR REPLACED AS INDICATED FOR PROPER OPERATION.
25. DEMOLITION AND REMOVAL OF EQUIPMENT SHALL INCLUDE BUT ARE NOT LIMITED TO PIPING SUPPORT, ISOLATORS, SEISMIC SUPPORT, AND CONTROLS.
26. NOTIFY ENGINEER OF RECORD, ARCHITECT, GENERAL CONTRACTOR, AND FIRST 5 LA OF ANY DISCREPANCY PRIOR TO CONTINUATION OF WORK.

SHEET INDEX

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Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

PLUMBING SYMBOLS, ABBREVIATION, NOTES AND SHEET INDEX

SCALE

Scale: NONE

SHEET NUMBER

P0.01

00000000.00 1/3/2017 1:50:23 PM Project Name

EQUIPMENT SCHEDULE

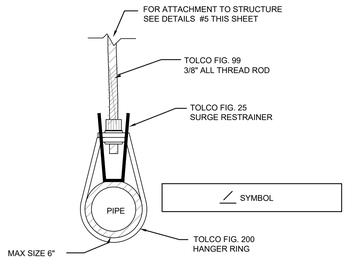
ITEM	DESCRIPTION	MFG/ TYPE	LOCATION	ELECTRICAL HP	V	Ø	HZ	REMARKS	DIMENSION
FPP 1	FIRE PROTECTION PRE-ACTION DOUBLE INTERLOCK	FIRE FLEX SYSTEMS INC. TOTALPAC R(3) SUREFIRE STYLE "D"T3SFDWP20, T3AIRKOA03, UL/FM LISTED,2" DIRSCHARGE	STORAGE ROOM FLOOR MOUNTED	1/3 HP	120	1	60	PROVIDE PRE-ACTION SYSTEM COMPLETE PACKAGE ASSEMBLY INCLUDING COMPRESSOR, ALARM, DRY SPRINKLER HEADS, CONTROL ZONE VALVE WITH TAMPER SWITCH, FIRE SPRINKLER PIPING AND ACCESSORIES. FIRE PROTECTION CONTRACTOR SHALL SECURE AND SEISMIC ANCHORAGE CABINET THROUGH EXISTING CONCRETE FLOOR .	L x W x H 50"x25"x68"
FPCA 1	FIRE PROTECTION CLEAN AGENT	FIRE PROTECTION STAR-X SYSTEM W/ CONTROL PNEL ELECTRICAL SEREIES 1500 THERMAL SERIES 500E MANUAL SERIES 250E	SERVICE ROOM CEILING MOUNTED	-	120	1	60	PROVIDE COMPLETE PACKAGE, INCLUDING CONTROL PANEL AND SENSORS. INTERCONNECT TO PRE-CTION SYSTEM	MAXIMUM COVERAGE 11.3 FT X 11.3 FT 131.7 CU.FT
FACP 1	FIRE ALARM CONTROL PANEL	FIRE FLEX SYSTEMS INC. MODEL # VRF-400 FOR DOUBLE INTERLOCK PRE-ACTION SYSTEM CSFM # 7165O533-0106-ARM-2-LISTED CLASS A STYLE "D" T3VRPCA22 VIKING PANEL # 14177	STORAGE ROOM WALL MOUNTED RECESSED	-	120	1	60	PROVIDE REMOTE FIRE ALARM CONTROL PANEL INTERCONNECT WITH MAIN BUILDING FA PANEL FOR PRE-ACTION SYSTEM AND CLEAN AGENT CONTROLS.	L x W x H 14-1/2"x6"x18"

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	W	TRAP	V	CW	HW	GAS	REMARKS
FVL 1	WATER CLOSET FLASH VALVE ACCESSIBLE	-	-	-	1 1/2"	-	-	"FLUSH VALVE " 1.28 GPF, TOP SPUD, 1.28 GPF- PROVIDE FLV-1 FLUSH VALVE SLOAN # 111-SMO-1.28-DFB- SENSOR BATTERY POWERED ACTIVATED FLUSHOMETER 1.28 GPF DUAL FILTERED BYPASS DIAPHRAGM, MANUAL OVERRIDE FLUSH BOTTON AND SOLID RING PIPE SUPPORT ADA COMPLIANT, BAA COMPLIANT, BREEAM WATER CREDIT, cUPC GREEM CERTIFIED, GLOBES WATER CREADIT LEED V4, WATERSENSE LISTED PROVIDE OFFSET TAILPIECE OR CUT 2" WHEN CONFLICT WITH ADA GRAB BAR.
FVL 2	URINAL FLASH VALVE ACCESSIBLE	-	-	-	3/4"	-	-	"FLUSH VALVE", 0.125 GPF, WALL MOUNTED, 3/4" TOP SPUD, HIGH EFFICIENCY FLUSH VALVE FLV-3 SLOAN ROYAL MODEL 186-0.125-SMO BATTERY POWERED SENSOR ACTIVATED FLUSHOMETER 0.125GPF MANUAL OVERRIDE FLUSH BUTTON. ADA COMPLIANT, BAA COMPLIANT, BREEAM WATER CREDIT, cUPC GREEM CERTIFIED, GLOBES WATER CREADIT LEED V4, WATERSENSE listed
F 1	LAVATORY FAUCET TOUCH-LESS	-	-	-	1/2"	1/2"	-	"TOUCH-LESS" SENSOR FAUCET DECK MOUNTED (1 HOLE CENTER) BATTERY OPERATED CHICAGO HYDRONIC TRADITIONAL FAUCET # 116211.AB.4-240-627.21.1 4" COVER PLATE W/HOT & COLD WATER INLETS/OUTLET,AND (TMV) THERMOSTATIC MIXING VALVE CHICAGO # 122-ABNF, PROVIDE BRAIDED STAINLESS STEEL SUPPLY HOSES. WRAP (E) P-TRAP , (E) ANGLE STOPS & TAILPIECE WITH , PLUMBEREX UNDER LAV UTILITIES
F 2	SINK FAUCET TOUCH-LESS	-	-	-	3/4"	3/4"	-	"TOUCH-LESS" SENSOR FAUCET DECK MOUNTED (2 HOLE CENTER & RIGHT) BATTERY OPERATED CHICAGO HYTRONIC SINGLE & MANUAL SINGLE SUPPLY FAUCET # 116.589.A.B.1.- 116.694.AB.4 8" COVER PLATE WITH CHICAGO KIT MOUNTING 243.181.00.1-WITH FAUCET SPOUT SWING "L" TYPE CHICAGO # L9E35VPJKABCP AND TMV THERMOSTATIC MIXING VALVE CHICAGO # 122-ABNF PROVIDE BRAIDED STAINLESS STEEL SUPPLY HOSES . WRAP (E) P-TRAP , (E) P-TRAP & (E) TAILPIECE WITH PLUMBEREX UNDER SINK UTILITIES
EWC 1	ELECTRIC WATER COOLER WALL MOUNTED INDOOR ACCESSIBLE (DRINKING FOUNTAIN)	2"	1 1/2"	2"	3/4"	-	-	"HALSEY TAYLOR" MODEL HTHBWF-OVLSER-I ADA-HI-LO W/ INTEGRAL BOTTLE FILLER & INTEGRAL OVL-11 WITH WATER FILTER WATERSENTRY PLUS # 56898C, CHILLING CAPACITY 8.0 GPH & STEEL BACKING PLATE, INLINE FILTER BARRIER FREE DRINKING WATER COOLER FOUNTAIN DUAL HIGH & LOW STAINLESS STEEL ACCESS PANEL WALL MOUNTED INDOOR TYPE STAINLESS STEEL DUAL HEIGHT WITH SUPPORT FRAME # MFWS230-INSTALL PER MFG RECOMMENDATION. PROVIDE BLOCKING AND BACKING STEEL PLATE 1/4" THICK & NOT LESS THAN 4" WIDE SUPPORT WITH MOUNTING PLATE AS REQUIRED. POWER 390 WATTS MOTOR, 120V, 1 PH & 60 HZ 1 FLA WITH ELECTRICAL OUTLET OVERLOAD PROTECTION & 3 CONDUCTOR GROUNDING LOCATE WITHIN SAFE REACH OF POWER CORD .

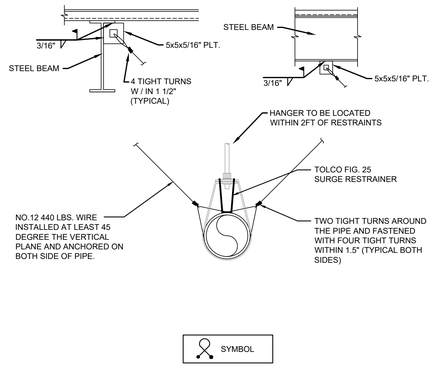
NOT USED

SCALE: NONE — 7



HANGER INSTALLATION

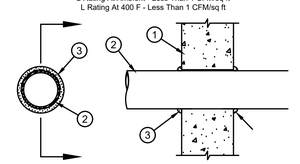
SCALE: NONE — 5



HANGER END OF LINE RESTRAINT (STEEL)

SCALE: NONE — 3

System No. W-J-1159
F Rating - 2 Hr
T Rating - 1/4 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



1. **Wall Assembly -** Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 1/8 to 1/4 in. (3.2 to 6 mm) larger than OD of pipe.

   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. **Through Penetrant -** One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm, point contact) to max 1/8 in. (3.2 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Copper Tubing -** Nom 4 in. (102 mm) diam (or smaller) Type M (or heavier) copper tubing.
   B. **Copper Pipe -** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   C. **Steel Pipe -** Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   D. **Conduit -** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or rigid steel conduit.
   E. **Iron Pipe -** Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
3. **Fill, Void or Cavity Materials* - Sealant or Putty** - Min 1/2 in. (13 mm) diameter bead of sealant or putty applied continuously around the penetrant on the wall surfaces on both sides of the wall.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Putty, SpecSeal Series SSS Sealant, SpecSeal LCI Sealant

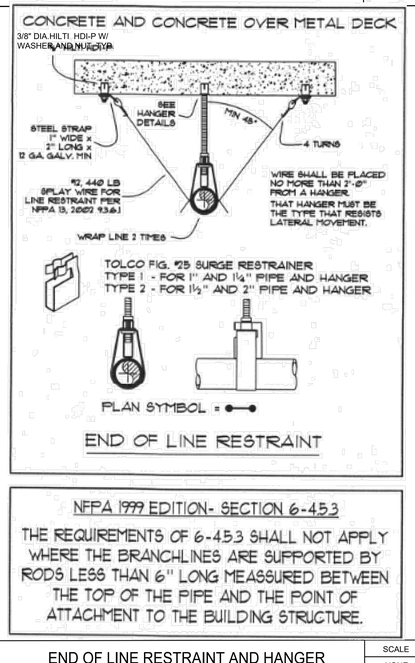
   *Bearing the UL Classification Mark

FIRE RATED STOP PENETRATION THROUGH CONCRETE WALL

SCALE: NONE — 1

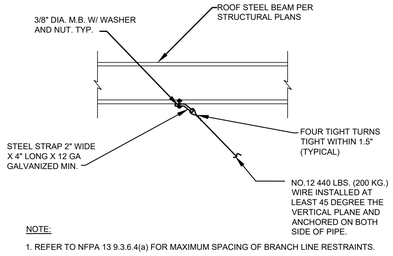
NOT USED

SCALE: NONE — 8



END OF LINE RESTRAINT AND HANGER

SCALE: NONE — 6



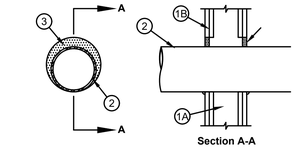
NOTE:

1. REFER TO NFPA 13 9.3.6.4(a) FOR MAXIMUM SPACING OF BRANCH LINE RESTRAINTS.

END OF LINE RESTRAINT (STEEL)

SCALE: NONE — 4

System No. W-L-1062
F Ratings - 1 and 2 Hr
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



Section A-A

1. **Wall Assembly -** The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs -** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board* -** Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening in wood stud walls is 8 in. (203 mm). Max diam of opening in steel stud walls is 14 in. (356 mm).

   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Through Penetrants -** One metallic pipe, conduit or tubing to be installed within the firestop system. The space between pipe, conduit or tubing and periphery of opening shall be a min 0 in. (point contact) to a max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe -** Nom 12 in. (305 mm) diam (or smaller) Schedule 5 (or heavier steel pipe.
   B. **Iron Pipe -** Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit -** Nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing, nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
   D. **Copper Tubing -** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. **Copper Pipe -** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Fill, Void or Cavity Material* - Caulk -** Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 3/8 in. (10 mm) diam bead of fill material applied at point contact location at the penetrant/gypsum board interface on both sides of wall.

   MOMENTIVE PERFORMANCE MATERIALS - Pensil 100 Caulk.

   SPECIFIED TECHNOLOGIES INC - Pensil 100 Sealant, Pensil 300 Sealant or SpecSeal Series SIL300 Sealant.

   *Bearing the UL Classification Mark

FIRE RATED STOP PENETRATION THROUGH GYPSUM BOARD WALL

SCALE: NONE — 2

00000000.00 1/3/2017 1:50:23 PM Project Name

first 5 la
Giving kids the best start

750A N Alameda St, Los Angeles, CA 90012

IMEG
300 N. LAKE AVENUE, 14TH FLOOR
PASADENA, CA 91101
626.463.2800 FAX: 626.463.2801
www.imegcorp.com
Project #: **19002647.00**

PROFESSIONAL SEAL

FIRST 5 LA CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

DESIGN BUILD BRIDGING DOCUMENTS

AGENCY APPROVAL

REFERENCE SCALE IN INCHES

0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	100% DD BRIDGING DOCUMENT
Date	03/09/2021
Job Number	19002647.00
Drawn	JULIO ESCOBAR
Checked	PAUL DONG
Approved	PAUL DONG

SHEET TITLE

PLUMBING SCHEDULE AND DETAILS

SCALE

Scale: NONE

SHEET NUMBER

P0.02

HANGER NOTES

HANGING OF SYSTEM PIPING SHALL BE PER NFPA 13 2019 EDITION, CHAPTER 17.

HANGERS SHALL ATTACH TO STRUCTURE PER STRUCTURAL ENGINEER APPROVAL WITH THE LOADS IMPOSED SHALL NOT EXCEED THE ALLOWABLE LIMITS PER NFPA. 13. ATTACHMENT TO METAL DECK IS ONLY PERMITTED IF METAL DECK IS 20GA OR THICKER.

MAXIMUM DISTANCE BETWEEN HANGERS:

THE MAXIMUM DISTANCE BETWEEN HANGERS SHALL NOT EXCEED THAT SPECIFIED IN TABLE NFPA 13, 17.4.2.1, EXCEPT WHERE THE PROVISIONS OF NFPA 13, SECTION 17.4.4 APPLY. TABLE 17.4.2.1 MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN)

	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8
STEEL PIPE EXCEPT THREADED LIGHTWALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADED LIGHTWALLL	N/A	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A

LOCATION OF HANGERS ON BRANCH LINES:

THERE SHALL BE NOT LESS THAN ONE HANGER FOR EACH SECTION OF PIPE, EXCEPT WHERE SPRINKLERS AND MULTIPLE PIPE FITTINGS ARE SPACED LESS THEN 6 FT THE APART, HANGERS SHALL BE SPACED UP TO A MAXIMUM OF 12 FT, HANGERS ARE NOT REQUIRED WHERE BRANCH LINES STARTER LENGTHS ARE LESS THAN 6 FT. UNLESS ON THE END LINE OF A SIDE FEED SYSTEM OR WHERE AN INTERMEDIATE CROSS MAIN HANGER HAS BEEN OMITTED.

UNSUPPORTED LINE PIPE LENGTH

THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT BE GREATER THEN 36 INCHES FOR 1 INCH PIPE, 48 INCH FOR 1 1/4 INCH PIPE, AND 60 INCHES FOR 1 1/2 INCH OR LARGER PIPE. WHERE THE LIMITS ARE EXCEEDED, THE PIPE SHALL BE EXTENDED BEYOND THE END SPRINKLER AND SHALL BE SUPPORTED BY ADDITIONAL HANGER.

UNSUPPORTED ARMOVER LENGTH

THE CUMULATIVE HORIZONTAL LENGTH OF AN UNSUPPORTED ARMOVER TO A SPRINKLER, SPRINKLER DROP OR SPRIG SHALL NOT EXCEED 24 INCHES FOR STEEL PIPE.

LOCATION OF HANGERS ON MAINS

LOCATION OF HANGERS ON MAINS SHALL COMPLY WITH NFPA 13, SECTION 17.4.4 AND SHALL BE PER PLANS. FOR STEEL PIPE CROSS MAINS, A HANGER CAN BE INSTALLED BETWEEN EVERY TWO BRANCH LINES OR, ALTERNATIVELY, ON EACH BRANCHLINE AS NEAR AS POSSIBLE TO THE CROSS MAIN, WHILE OMITTING ONE INTERMEDIATE CROSS MAIN HANGER IN EACH BAY. THE OPTION TO OMIT THE INTERMEDIATE CROSS MAIN HANGER APPLIES TO THE LAST PIECE OF CROSS MAIN ONLY IF THE MAIN IS EXTENDED TO THE NEXT FRAMING MEMBER AND A HANGER IS INSTALLED AT THAT POINT.

END OF LINE RESTRAINT

1. WIRE USED FOR RESTRAINT PER DETAIL 8/FP5.01 SHALL BE LOCATED WITHIN 2 FT. OF A HANGER. THE HANGER CLOSEST TO A RESTRAINT SHALL HAVE A SURGE RESTRAINER TO RESIST UPWARD MOVEMENT OF THE BRANCHLINE.
   BRANCHLINE SHALL BE RESTRAINED AT:

   PER NFPA 13, TABLE 18.6.4 CP= .95

   Ss=2.031g

   26' FOR 1" PIPE
   27' FOR 1 1/4" PIPE
   29' FOR 1 1/2" PIPE
   31' FOR 2" PIPE

2. THE END SPRINKLER ON A LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT.
3. SPRIGS 4 FT. OR LONGER SHALL BE RESTRAINED AGAINST LATERAL MOVEMENT.
4. BRACES AND RESTRAINTS SHALL NOT OBSTRUCT SPRINKLERS.
5. WHEN THE MAXIMUM STATIC OR FLOWING PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI: BRANCH LINES ABOVE THE CEILING WHICH SUPPLIES SPRINKLERS IN A PENDENT POSITION BELOW THE CEILING, THE HANGER ASSEMBLY SUPPORTING THE PIPE SUPPLYING AN END SPRINKLER IN A PENDENT POSITION SHALL BE OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF THE PIPE.

   HANGER SUPPORTING 1" ARMOVER LONGER THAT 12 INCHES. THE HANGER CLOSEST TO THE
6. SPRINKLER SHALL BE OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF THE PIPING.

SWAY BRACING NOTES

1. SEISMICALLY BRACE ALL REQUIRED PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 (2019 EDITION).
2. SWAY BRACING SIZE, LOCATION, SPACING, AND CONNECTIONS SHALL BE IN ACCORDANCE WITH NFPA 13, SECTION 18.5. AND ON THIS APPROVED PLAN. SEE DETAILS FOR SPACING, BRACE TYPE, AND ATTACHMENT METHODS.
3. LATERAL SWAY BRACING MAY BE OMITTED WHERE ROD TYPE HANGERS DO NOT EXCEED 6" IN OVERALL LENGTH ACCORDANCE WITH NFPA 13, SECTION 18.5.5.10
4. SWAY BRACING SHALL BE REQUIRED ON ALL FEED AND CROSS MAINS REGARDLESS OF SIZE AND ON ALL BRANCH LINES AND PIPING WITH A DIAMETER OF 2 1/2" AND LARGER.
5. LATERAL SWAY BRACES SHALL BE ABLE TO ACT AS LONGITUDINAL BRACES IF THEY ARE LOCATED WITH 24 INCHES ON THE CENTERLINE OF THE PIPING BRACED.
6. BRACES AND RESTRAINTS SHALL NOT OBSTRUCT SPRINKLERS

FIRE WATCH NOTES

1. A FIRE WATCH SHALL BE IMPOSED IN-THE FACILITY WHEN ANY EXISTING FACILITY FIRE ALARM AND/OR AUTOMATIC FIRE SPRINKLER SYSTEM IS IMPAIRED. FIRE WATCH PERSONNEL SHALL BE PROVIDED WITH AT LEAST ONE APPROVED MEANS FOR NOTIFICATION OF THE FIRE DEPARTMENT AND THEIR SOLE DUTY SHALL BE TO PERFORM CONSTANT PATROL AND WATCH FOR THE OCCURRENCE OF FIRE. CFC CHAPTER 33

MATERIAL

1. ALL DEVICES AND EQUIPMENT SHALL BE NEW, U.L. LISTED AND OR F.M. APPROVED FOR FIRE SPRINKLER APPLICATION.
2. ALL MATERIAL SHALL BE PROTECTED FROM DAMAGE WHILE STORED ON SITE.
3. MAIN PIPE: FEED MAINS AND RISERS SHALL BE SCHEDULE 40 BLACK STEEL PIPE.
   a. ALL MAIN OUTLETS SHALL BE U.L. LISTED WELDED.
   b. ALL MAIN FITTINGS SHALL BE GROOVED.
   c. ALL MAIN COUPLINGS SHALL BE GROOVED.
   d. FLEXIBLE COUPLINGS SHALL BE INSTALLED ON THE SYSTEM PIPING PER NFPA 13, SECTION 18.2. COUPLINGS.
4. BRANCH LINE: (2" NOMINAL DIAMETER AND UNDER): BRANCHLINE PIPING SHALL BE SCHEDULE 40 BLACK STEEL THREADE FITTINGS .
5. ALL EXPOSED (BELOW CEILING) PIPING SHALL BE PAINTED TO MATCH THE BACKGROUND.
6. ALL WELD PIPE SHALL BE MADE AVAILABLE FOR INSPECTION BY THE SERVICE FIRE DEPARTMENT BEFORE START OF INSTALLATION. CERTIFIED WELDER SHALL PROVIDE I.D.I STAMP ON EACH WELD.
7. ALL PIPE HANGERS SHALL BE IN ACCORDANCE WITH NFPA 13, SECTION 17.4 AND UL LISTED.
8. IDENTIFICATION SIGNS SHALL BE PROVIDED FOR EACH LOCAL ALARM BELL, CONTROL VALVE, TEST AND DRAIN VALVE, MAIN, AUXILIARY DRAINS AND FIRE DEPARTMENT CONNECTION. ALL SIGNS SHALL BE METAL.

FIELD TESTING AND FLUSHING

1. OVERHEAD SYSTEM HYDROSTATIC TEST @ 200 PSI FOR 2 HOURS.
2. UNDERGROUND SYSTEM INSTALLED, FLUSHED AND TESTED BY OTHERS.
3. BUILDING SPRINKLER SYSTEM SHALL NOT BE CONNECTED TO THE SITE UNDERGROUND MAIN UNTIL THE SITE PIPING HAS BEEN FLUSHED AND TESTED PER NFPA 24.
4. PROVIDE INSPECTION AND HYDROSTATIC TEST CERTIFICATE AND SUBMIT THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATES FOR ABOVE GROUND PIPING.

FIRE SPRINKLER DESCRIPTION

PROJECT DESCRIPTION:
TO PROVIDE A DEMO, RENOVATION & UPGRADE THE EXISTING FIRE PROTECTION WITH WET-PIPE SPRINKLER SYSTEM/ HEAT & SMOKE DETECTORS FOR EXISTING EXECUTIVE ELEVATOR LOBBY LEVELS AND ELEVATOR MACHINE ROOM. THIS MULTI PURPOSE BUILDING DEMO OF AN EXISTING PARTIAL CORRIDORS, ELEVATOR MACHINE ROOM & ELEVATOR LOBBY FRONT AREA, PROVIDE UPGRADE WITH NEW SPRINKLER UPRIGHT, SHUNT TRIP, CONTROL VALVE WITH TAMPER SWITCH, LEVEL CONTROL ROOM & LOWER LEVEL STORAGE ROOMS, ELEVATOR MACHINE ROOM, ETC.. WORK INCLUDES TO PROVIDE SPRINKLER COVERAGE FOR ALL RENOVATION AREAS FOR BOTH THE SPACE ABOVE AND BELOW THE CEILINGS AS REQUIRED.

. DESIGN AND INSTALL TO THE FOLLOWING CODES AND STANDARDS.
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) PAMPHLET 13 & 14 (2019 EDITION)/APPROVE EDITION
TITLE 24 CALIFORNIA BUILDING AND FIRE CODE (2019 EDITION)/APPROVED EDITION
TITLE 19 STATE FIRE MARSHALL, AND TITLE 24 CALIFORNIA BUILDING AND FIRE CODE (PARTS 1-9 INCLUSIVE).

FIRE PROTECTION NOTES (DEFERRAL APPROVAL)

1. PROVIDE CABINET AND SPARE SPRINKLER HEADS PER NFPA 16.2.7.
2. ALL FIRE PROTECTION SYSTEMS WORK SHALL BE BY UNDER A LICENSED C16 CONTRACTOR.
3. ALL WORK AND MATERIAL SHALL COMPLY WITH THE LATEST; CALIFORNIA BUILDING CODE, CALIFORNIA FIRE CODES, NFPA 13, 72, 75, AND 101, CALIFORNIA STATE FIRE MARSHAL, AND APPLICABLE LOCAL CODES, AMENDMENTS AND REQUIREMENTS.
4. THE FIRE PROTECTION SYSTEMS SHALL BE DESIGNED TO MEET OWNER'S INSURANCE COMPANY STANDARDS WHERE APPLICABLE. THE MORE STRINGENT OF THE OWNER'S INSURANCE UNDERWRITER'S DESIGN CRITERIA AND THE NFPA STANDARDS SHALL BE USED.
5. ALL BUILDING AREAS SHALL BE FULLY SPRINKLERED INCLUDING CANOPIES, WALKWAYS OR AND BUILDING PROJECTION OVER 48 INCHES.
6. ALL ACCESSIBLE COMBUSTIBLE CONCEALED SPACES SHALL BE FULLY PROTECTED BY THE SPRINKLER SYSTEM.
7. COMPLY WITH NFPA 13 SECTION 16.2.1.1 WHEN A SPRINKLER HAS BEEN REMOVED FOR ANY REASON, IT SHALL NOT BE REINSTALLED.
8. THE INSTALLATION OF THE SEISMIC BRACING FOR THE FIRE SPRINKLER SYSTEM SHALL BE SUBJECT TO THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION.
9. THERE SHALL BE NO SPRINKLER PIPING THAT PASSES BELOW ANY SKYLIGHT, ROOF HATCH OR CLEARSTORY THAT MAY BE SEEN FROM BELOW.
10. ALL PIPES SHALL BE LOCATED AS HIGH AS POSSIBLE AND SHALL HAVE THEIR ROUTING FULLY COORDINATED WITH THE MECHANICAL CONTRACTOR AND ALL OTHER TRADES.
11. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PARTITIONS, SUSPENDED CEILINGS, SOFFITS, ETC.
12. THE SPRINKLER HEADS SHALL BE INSTALLED APPROXIMATE AS INDICATED ON THE PIPING PLAN ON THE DRAWINGS, BUT NOT LIMITED TO COORDINATE WITH ARCHITECTURAL REFLECTING AND SPECIAL STAGE LIGHTING CONSULTANT REQUIREMENTS.
13. SPRINKLER HEADS SHALL BE QUICK-RESPONSE, UL LISTED, AND FM APPROVED.
14. SPRINKLER HEADS LOCATED IN ACOUSTICAL TILE CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE TILE OR HALF TILE.
15. IF REQUIRED, THE CONTRACTOR SHALL REVISE ANY EXISTING SPRINKLER HEADS AS NECESSARY SUCH THAT THEY WILL BE ARE ALIGNED WITH THEMSELVES, LIGHTING, DIFFUSERS, ANY OTHER FEATURE IN THE CEILING.
16. IN GYPSUM CEILING AREAS THE SPRINKLERS SHALL BE CONCEALED WITH A FACTORY FINISH AS DEFINED BY THE ARCHITECT.
17. IN ACOUSTICAL TILE CEILING AREAS THE SPRINKLERS SHALL BE RECESSED AND/OR CONCEALED WITH A FACTORY FINISH AS DEFINED BY THE ARCHITECT.
18. IN EXPOSED AREAS THE SPRINKLERS SHALL BE UPRIGHT AND/OR PENDANT HEADS WITH A FACTORY FINISH AS DEFINED.
19. NFPA 13 SECTION 16.2.1.1 WHEN A SPRINKLER IS REMOVED FROM A FITTING OR A WELDED OUT, IT SHALL NOT BE REINSTALLED.
20. PENETRATIONS THROUGH CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM SHALL HAVE A 2" OVERSIZED RING OR SLEEVE THROUGH THE CEILING TILE TO ALLOW 1" MOVEMENT IN ALL HORIZONTAL DIRECTIONS FOR PIPE SIZE 1" THROUGH 3-1/2" SIZES. FLEXIBLE SPRINKLER HOSE THAT CAN ACCOMMODATE 1" OF MOVEMENT SHALL NOT REQUIRE AN OVERSIZED SLEEVE OR ADAPTOR.
21. ACCESS PANEL/DOORS INSTALLED BY OTHERS.
22. ALARM AND TROUBLE SIGNAL SHALL BE MONITORED BY AN OFF-SITE SUPERVISORY STATION. SUPERVISORY SYSTEM AND CENTRAL STATION SHALL BE UL LISTED AND/OR FM APPROVED, AND ACCEPTABLE TO THE SERVING FIRE DEPARTMENT.
23. ELECTRICAL SHUNT STRIP, TAMPER/FLOW SWITCHES, AS REQUIRED TO PROVIDE INTERCONNECTION TO THE FIRE ALARM SYSTEM SHALL PROVIDE AN AUDIBLE LOCAL WATER-FLOW ALARM . ALL ALARM DEVICES SHALL COMPLY WITH NFPA 72 AND BE UL LISTED AND CSFM APPROVED.
    a. SUPERVISORY (TAMPER) SWITCHES , SHALL BE INSTALLED ON ALL VALVES CONTROLLING FIRE PROTECTION WATER SUPPLIES.
24. PIPING PASSING THRU WALLS, FLOORS, PLATFORMS, AND FOUNDATIONS, AND BEAMS CONSIDERED PRIMARY STRUCTURAL MEMBERS SHALL BE PREVENTED FROM BEING DAMAGED ACCORDING TO NFPA 13, SECTION 18.4 CLEARANCES. NO CLEARANCE IS REQUIRED FOR GYPSUM BOARD OR FRANGIBLE CONSTRUCTION THAT IS NOT REQUIRE TO HAVE A FIRE RATING.
25. UNDER UNOBSTRUCTED CONSTRUCTION, THE DISTANCE BETWEEN THE SPRINKLER DEFLECTOR AND THE CEILING SHALL BE A MINIMUM OF 1 INCH AND A MAXIMUM OF 12 INCH THROUGHOUT THE AREA OF COVERAGE OF THE SPRINKLER.
26. SPRINKLER HEADS SHALL BE SPACED PER NFPA 13 AND/OR IN ACCORDANCE WITH THE MANUFACTURER'S LISTING. SPRINKLER ARE SPACED AT A MAXIMUM OF 225 S.F IN LIGHT HAZARD ROOMS/AREAS WHEN USING QUICK RESPONSE UPRIGHT OR PENDENT SPRINKLERS.
    SMALL ROOM RULE APPLIES TO LIGHT HAZARD ROOMS 800 FT MAX. (PER NFPA 13 3.3.129)
    SPRINKLER ARE SPACED AT A MAXIMUM OF 130 FT IN ORDINARY HAZARD ROOMS/AREAS WHEN USING QUICK RESPONSE UPRIGHT OR PENDENT SPRINKLERS.
    SPRINKLER SHALL BE COMPLIED WITH HYDRAULIC CALC. SPRINKLER COVERAGE SQ. FT.
27. PROPERLY FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR PARTITIONS WITH A UL APPROVED SYSTEM APPROPRIATE FOR THE PENETRATION TYPE AND FIRE RATING IN ACCORDANCE WITH THE MANUFACTURES INSTALLATION INSTRUCTIONS. REFER TO DETAIL 5/FP5.01
28. PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY THE ARCHITECT.
29. SOFFITING AND FURRING TO CONCEAL PIPE BY OTHERS.

SUPPORT OF RISERS

1. RISERS SHALL BE SUPPORTED BY RISER CLAMPS OR BY HANGERS LOCATED ON THE HORIZONTAL CONNECTIONS WITHIN 24 INCHES OF THE CENTERLINE OF THE RISER.
2. RISER CLAMPS ANCHORED TO WALLS USING HANGER RODS IN THE HORIZONTAL POSITION SHALL NOT BE PERMITTED TO VERTICALLY SUPPORT RISERS.
3. SUPPORTS ABOVE THE LOWEST LEVEL SHALL ALSO RESTRAIN THE PIPE TO PREVENT MOVEMENT BY AN UPWARD THRUST WHERE FLEXIBLE FITTINGS ARE USED.
4. WHERE RISERS ARE SUPPORTED FROM THE GROUND, THE GROUND SUPPORT SHALL CONSTITUTE THE FIRST LEVEL OF RISER SUPPORT.
5. DISTANCE BETWEEN SUPPORTS FOR RISERS SHALL NOT EXCEED 25 FT.

APPLICABLE CODES & STANDARDS

- 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1
- 2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2015 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2015 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12
- CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
- NFPA 13 AUTOMATIC SPRINKLER SYSTEM
- NFPA 14 STANDPIPE SYSTEMS (CALIFORNIA AMENDED)
- NFPA 72 CALIFORNIA FIRE ALARM CODE (CALIFORNIA AMENDED)

LEGEND

SYMBOL	ABBREV.	DESCRIPTION
F	F	FIRE WATER SUPPLY
	SSU	SPRINKLER, UPRIGHT
	SSP	SPRINKLER, PENDENT
	SSP	SPRINKLER, CONCEALED PENDENT
	HSW	SPRINKLER, SIDEWALL
		PIPE DOWN
		PIPE UP
		PIPE TEE DOWN
		PIPE CAP
		HANGERS
		HANGER, END OF LINE RESTRAINT
		WIRE RESTRAINT
		WALL BRACKET
		SEISMIC BRACE, 2 WAY
		SEISMIC BRACE, 4 WAY
	GV	GATE VALVE
	BV	BALL VALVE
	BFV	BUTTERFLY VALVE
	GLV	GLOBE VALVE
	AGV	ANGLE VALVE (GLOBE)
	CV	CHECK VALVE
	UN	UNION
	STR	STRAINER
		THREADED PIPE CROSS FITTING
		REDUCING COUPLING
IV	IV	LISTED INDICATING VALVE
	HGV	HOSE GATE VALVE
	AHV	ANGLE HOSE (GLOBE) VALVE
	PRV	PRESSURE REDUCING VALVE
P	POPRV	PILOT OPERATED PRV
R	AHV	PRESSURE REDUCING HOSE VALVE
	ASR	AUTOMATIC SPRINKLER RISER
C	CASR	COMBINED SPRINKLER RISER
A	AV	ALARM CHECK VALVE
P	PAV	PRE-ACTION VALVE
F	FLS	FLOW SWITCH
PS	PS	PRESSURE SWITCH
E	EAB	ELECTRIC ALARM BELL
	AD	AUTOMATIC DRAIN
	PG	PRESSURE GAUGE W/COCK
	FH	FIRE HYDRANT
	PIV	POST INDICATOR VALVE
	RPBFP	REDUCED PRESSURE BFP
	DCBFP	DOUBLE CHECK BFP
	FDC	FIRE DEPARTMENT SIAMESE CONNECTION
	FDC	FDC MULTI CONNECTION
		HORN/STROBE
		STROBE
FSCP	FSCP	FIRE SUPPRESSION CONTROL PANEL
SDCP	SDCP	SAMPLING DETECTOR CONTROL PANEL
	POD	POINT OF DISCONNECTION
	POC	POINT OF CONNECTION
NO		DEMOLITION KEY NOTE
NO		REMODEL KEY NOTE
NO		HYDRAULIC NODE
X / X		DETAIL OR ENLARGEMENT CALL OUT
	Ø	DIAMETER
	S.F.	SQUARE FOOTAGE
	(E)	EXISTING
	(N)	NEW

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REVISIONS

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Checked: **PAUL DONG**
Approved: **PAUL DONG**

SHEET TITLE

PLUMBING/FIRE PROTECTION GENERAL NOTES

SCALE

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SHEET NUMBER

P0.03

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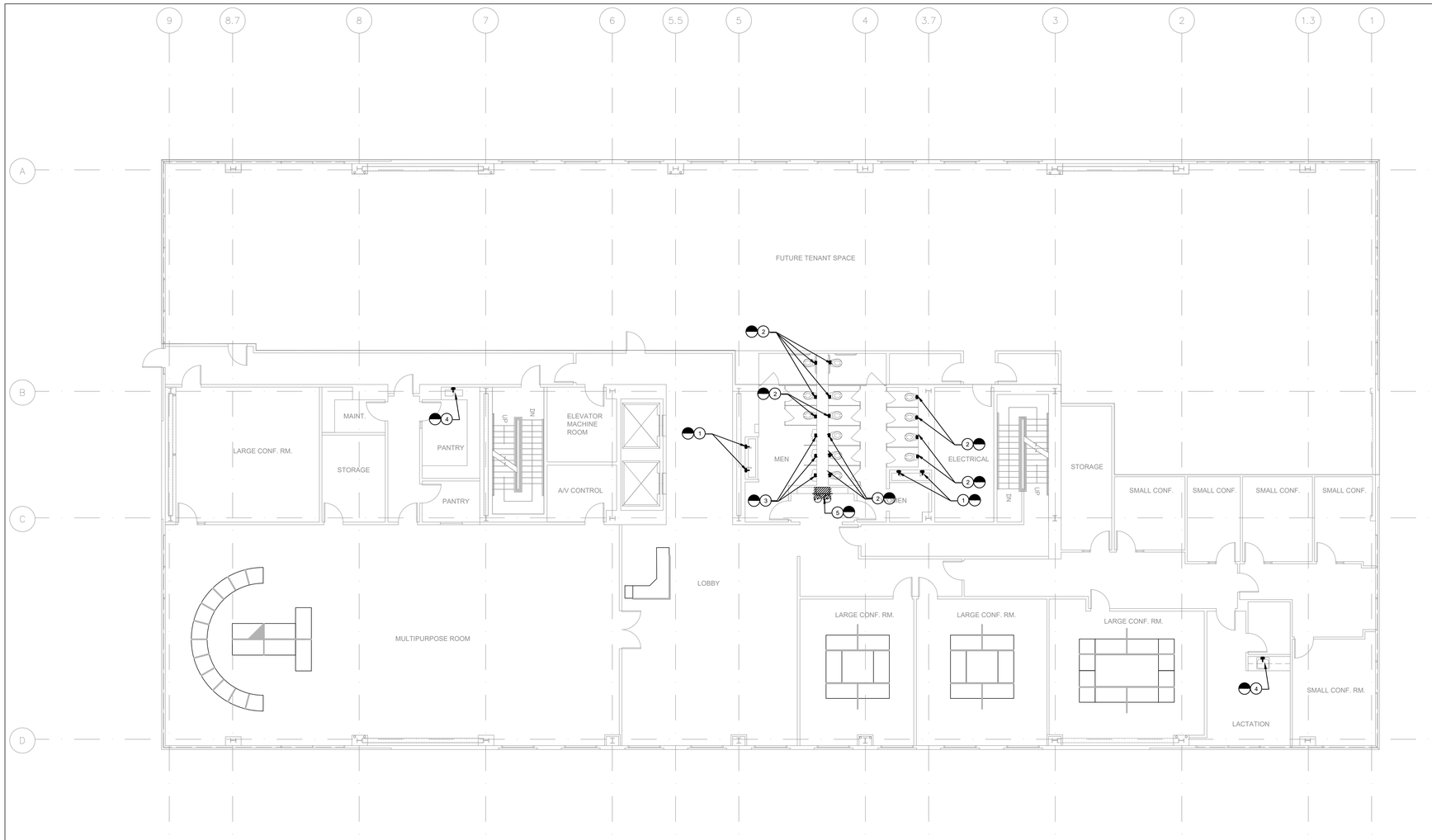

1 PLUMBING FIRST FLOOR DEMOLITION PLAN

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

GENERAL NOTES

1. PATCH AND REPAIR ALTERED SURFACES IN PREPARATION FOR NEW INSTALLATION AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

KEY NOTES

(1) REMOVE EXISTING DECK MOUNTED LEVER FAUCET AND ALL OF ITS APPURTENANCES (FAUCET & WATER SUPPLIES HOSES).
THE INFORMATION INDICATED IS FROM FIELD OBSERVATION.
THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE FAUCET & WATER LINES BACK TO THE (E) ANGLE STOPS TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FAUCET NEW WATER SUPPLIES HOSES

(2) REMOVE EXISTING 1-1/2" TOP SPUD LEVER FLUSH VALVE AND ALL OF ITS APPURTENANCES (FLUSH VALVE, VACUUM BREAKER & WATER LINE 1" NIPPLE UP TO (E) CHECK CONTROL STOP).
THE INFORMATION INDICATED IS FROM FIELD OBSERVATION.
THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE FLUSH VALVE LEVER HANDLE & WATER LINES BACK TO THE (E) CHECK CONTROL STOP TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FLUSH VALVE

(3) REMOVE EXISTING 3/4" TOP SPUD LEVER FLUSH VALVE AND ALL OF ITS APPURTENANCES (FLUSH VALVE, VACUUM BREAKER & WATER LINE 3/4" NIPPLE UP TO (E) CHECK CONTROL STOP).
THE INFORMATION INDICATED IS FROM FIELD OBSERVATION.
THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE FLUSH VALVE LEVER HANDLE & WATER LINES BACK TO THE (E) CHECK CONTROL STOP TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FLUSH VALVE

(4) REMOVE EXISTING DECK MOUNTED LEVER SWING KITCHEN FAUCET, GARBAGE DISPOSAL, WATER CHILLER, AND ALL OF ITS APPURTENANCES (FAUCET & WATER SUPPLIES HOSES).
THE INFORMATION INDICATED IS FROM FIELD OBSERVATION.
THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE KITCHEN FAUCET, GARBAGE DISPOSAL & WATER LINES BACK TO THE (E) ANGLE STOPS TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FAUCET WITH NEW WATER SUPPLIES HOSES

(5) REMOVE EXISTING ELECTRIC WATER COOLERS AND ALL OF ITS APPURTENANCES (BUBBLERS, COMPRESSORS, DISCONNECT POWER AND WASTE AND WATER PIPING. CAP (E) ROUGH-IN FOR NEW REPLACEMENT EWC-1).
THE INFORMATION INDICATED IS FROM FIELD OBSERVATION.
THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE (E) ELECTRIC WATER COOLER, WASTE, VENT CAP IN PLACE AND REMOVE WATER LINES BACK TO THE (E) ANGLE STOPS TO REMAIN AND PROVIDE NEW ROUGH-IN CONNECTION TO NEW EWC-1 HI/LOW ACCESSIBLE.

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REVISIONS

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SHEET INFORMATION

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Checked	**PAUL DONG**
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SHEET TITLE

PLUMBING FIRST FLOOR DEMOLITION PLAN

SCALE

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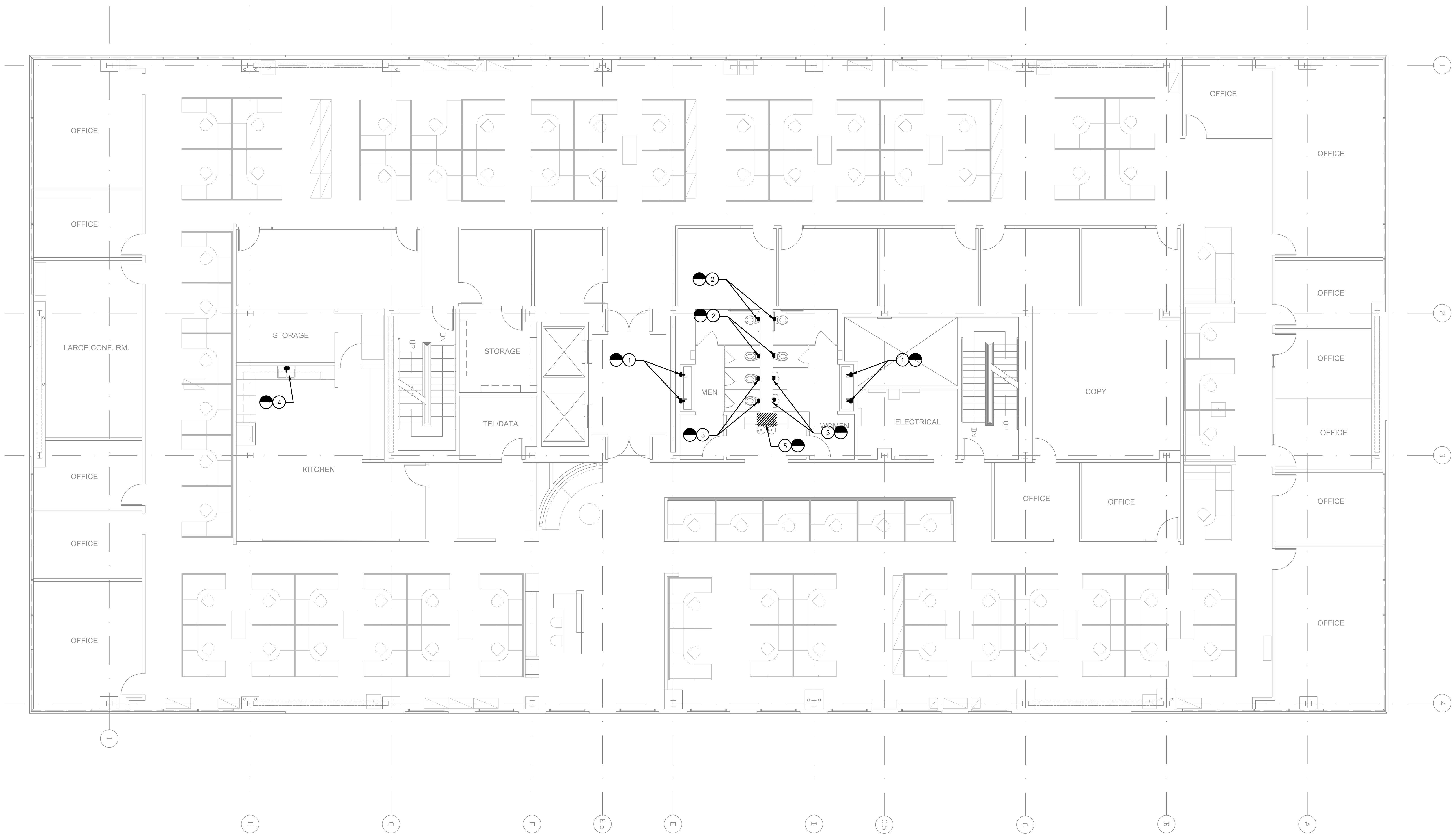

1 PLUMBING DEMOLITION SECOND FLOOR PLAN

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

GENERAL NOTES

1. PATCH AND REPAIR ALTERED SURFACES IN PREPARATION FOR NEW INSTALLATION AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

KEY NOTES

(1) REMOVE EXISTING DECK MOUNTED LEVER FAUCET AND ALL OF ITS APPURTENANCES (FAUCET & WATER SUPPLIES HOSES). THE INFORMATION INDICATED IS FROM FIELD OBSERVATION. THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE FAUCET & WATER LINES BACK TO THE (E) ANGLE STOPS TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FAUCET NEW WATER SUPPLIES HOSES

(2) REMOVE EXISTING 1-1/2" TOP SPUD LEVER FLUSH VALVE AND ALL OF ITS APPURTENANCES (FLUSH VALVE, VACUUM BREAKER & WATER LINE 1" NIPPLE UP TO (E) CHECK CONTROL STOP). THE INFORMATION INDICATED IS FROM FIELD OBSERVATION. THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE FLUSH VALVE LEVER HANDLE & WATER LINES BACK TO THE (E) CHECK CONTROL STOP TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FLUSH VALVE

(3) REMOVE EXISTING 3/4" TOP SPUD LEVER FLUSH VALVE AND ALL OF ITS APPURTENANCES (FLUSH VALVE, VACUUM BREAKER & WATER LINE 3/4" NIPPLE UP TO (E) CHECK CONTROL STOP). THE INFORMATION INDICATED IS FROM FIELD OBSERVATION. THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE FLUSH VALVE LEVER HANDLE & WATER LINES BACK TO THE (E) CHECK CONTROL STOP TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FLUSH VALVE

(4) REMOVE EXISTING DECK MOUNTED LEVER SWING KITCHEN FAUCET, GARBAGE DISPOSAL, WATER CHILLER, AND ALL OF ITS APPURTENANCES (FAUCET & WATER SUPPLIES HOSES).

THE INFORMATION INDICATED IS FROM FIELD OBSERVATION. THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE KITCHEN FAUCET, GARBAGE DISPOSAL & WATER LINES BACK TO THE (E) ANGLE STOPS TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FAUCET WITH NEW WATER SUPPLIES HOSES

(5) REMOVE EXISTING ELECTRIC WATER COOLERS AND ALL OF ITS APPURTENANCES (BUBBLERS, COMPRESSORS, DISCONNECT POWER AND WASTE AND WATER PIPING. CAP (E) ROUGH-IN FOR NEW REPLACEMENT EWC-1). THE INFORMATION INDICATED IS FROM FIELD OBSERVATION. THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE (E) ELECTRIC WATER COOLER, WASTE, VENT CAP IN PLACE AND REMOVE WATER LINES BACK TO THE (E) ANGLE STOPS TO REMAIN AND PROVIDE NEW ROUGH-IN CONNECTION TO NEW EWC-1 HI/LOW ACCESSIBLE.

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SHEET TITLE

PLUMBING DEMOLITION SECOND FLOOR PLAN

SCALE

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PD1.02

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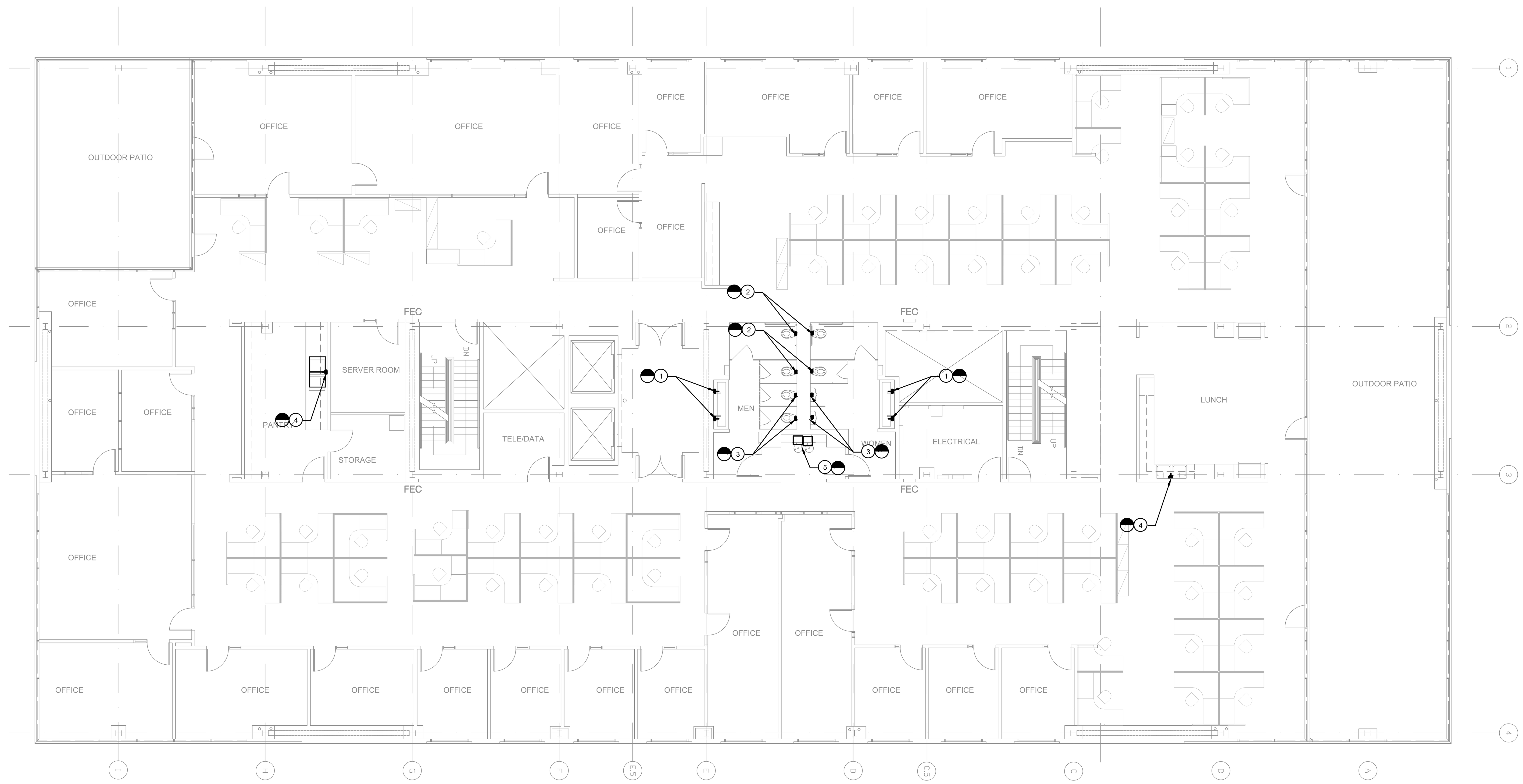

1 PLUMBING DEMOLITION THIRD FLOOR PLAN

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

GENERAL NOTES

1. PATCH AND REPAIR ALTERED SURFACES IN PREPARATION FOR NEW INSTALLATION AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

KEY NOTES

(1) REMOVE EXISTING DECK MOUNTED LEVER FAUCET AND ALL OF ITS APPURTENANCES (FAUCET & WATER SUPPLIES HOSES). THE INFORMATION INDICATED IS FROM FIELD OBSERVATION. THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE FAUCET & WATER LINES BACK TO THE (E) ANGLE STOPS TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FAUCET NEW WATER SUPPLIES HOSES

(2) REMOVE EXISTING 1-1/2" TOP SPUD LEVER FLUSH VALVE AND ALL OF ITS APPURTENANCES (FLUSH VALVE, VACUUM BREAKER & WATER LINE 1" NIPPLE UP TO (E) CHECK CONTROL STOP). THE INFORMATION INDICATED IS FROM FIELD OBSERVATION. THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE FLUSH VALVE LEVER HANDLE & WATER LINES BACK TO THE (E) CHECK CONTROL STOP TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FLUSH VALVE

(3) REMOVE EXISTING 3/4" TOP SPUD LEVER FLUSH VALVE AND ALL OF ITS APPURTENANCES (FLUSH VALVE, VACUUM BREAKER & WATER LINE 3/4" NIPPLE UP TO (E) CHECK CONTROL STOP). THE INFORMATION INDICATED IS FROM FIELD OBSERVATION. THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE FLUSH VALVE LEVER HANDLE & WATER LINES BACK TO THE (E) CHECK CONTROL STOP TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FLUSH VALVE

(4) REMOVE EXISTING DECK MOUNTED LEVER SWING KITCHEN FAUCET, GARBAGE DISPOSAL, WATER CHILLER, AND ALL OF ITS APPURTENANCES (FAUCET & WATER SUPPLIES HOSES). THE INFORMATION INDICATED IS FROM FIELD OBSERVATION. THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE KITCHEN FAUCET, GARBAGE DISPOSAL & WATER LINES BACK TO THE (E) ANGLE STOPS TO REMAIN AND PROVIDE NEW TOUCH-LESS SENSOR FAUCET WITH NEW WATER SUPPLIES HOSES

(5) REMOVE EXISTING ELECTRIC WATER COOLERS AND ALL OF ITS APPURTENANCES (BUBBLERS, COMPRESSORS, DISCONNECT POWER AND WASTE AND WATER PIPING. CAP (E) ROUGH-IN FOR NEW REPLACEMENT EWC-1). THE INFORMATION INDICATED IS FROM FIELD OBSERVATION. THE CONTRACTOR IS TO VERIFY IN FIELD FOR EXACT LOCATION & CONDITION IN THE FIELD. THE INTENT IS TO REMOVE THE (E) ELECTRIC WATER COOLER, WASTE, VENT CAP IN PLACE AND REMOVE WATER LINES BACK TO THE (E) ANGLE STOPS TO REMAIN AND PROVIDE NEW ROUGH-IN CONNECTION TO NEW EWC-1 HI/LOW ACCESSIBLE.

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SHEET TITLE

PLUMBING DEMOLITION THIRD FLOOR PLAN

SCALE

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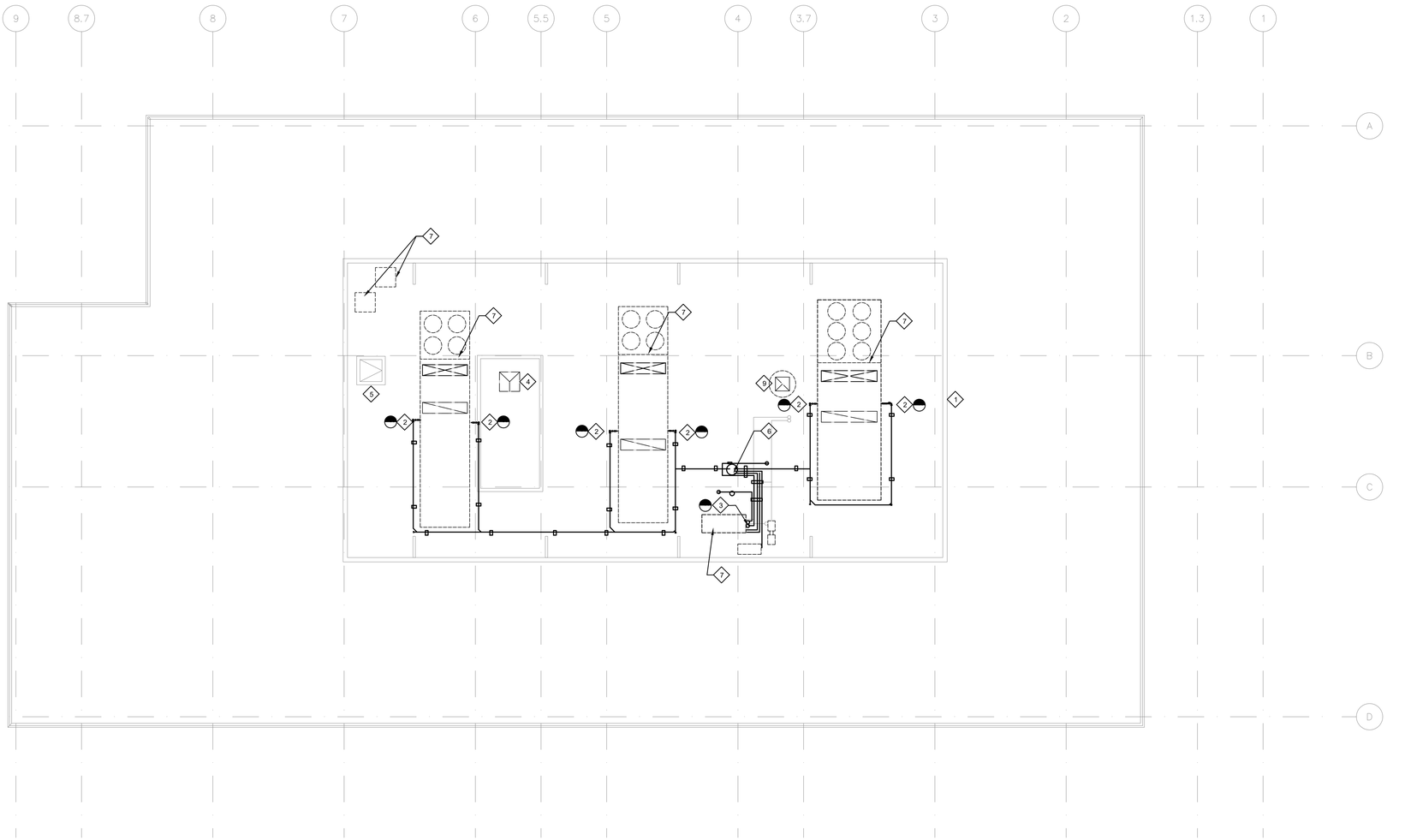

1 PLUMBING DEMOLITION ROOF PLAN

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

GENERAL NOTES

1. PATCH AND REPAIR ALTERED SURFACES IN PREPARATION FOR NEW INSTALLATION AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

KEY NOTES

1. MECHANICAL SCREEN TO REMAIN.
2. REMOVE AND DISCONNECT (E) CONDENSATE DRAIN CONNECTIONS & CAPPED TO MECHANICAL EQUIPMENT TO BE DEMOLISH SEE MECHANICAL ROOF PLAN . CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO DEMOLITION.
3. REMOVE AND DISCONNECT (E) PLUMBING 2" AND 3/4 " DRAINS AND 2" NATURAL GAS AND 1" MAKE UP CW CONNECTIONS AND CAPPED TO MECHANICAL EXISTING BOILER TO BE DEMOLISHED. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO DEMOLITION. SHUT-OFF AND DISCONNECT GAS, MAKE-UP WATER, PRIOR TO DEMOLITION.
4. (E) ELEVATOR SHAFT TO REMAIN.
5. (E) ROOF ACCESS TO REMAIN.
6. (E) ROOF RECEPTACLE
7. (E) MECHANICAL EQUIPMENT (SEE MECHANICAL PLANS)
8. (E) MECHANICAL BOILER (SEE MECHANICAL PLANS)
9. (E) EXHAUST FAN (SEE MECHANICAL PLANS)

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SHEET TITLE

PLUMBING DEMOLITION ROOF PLAN

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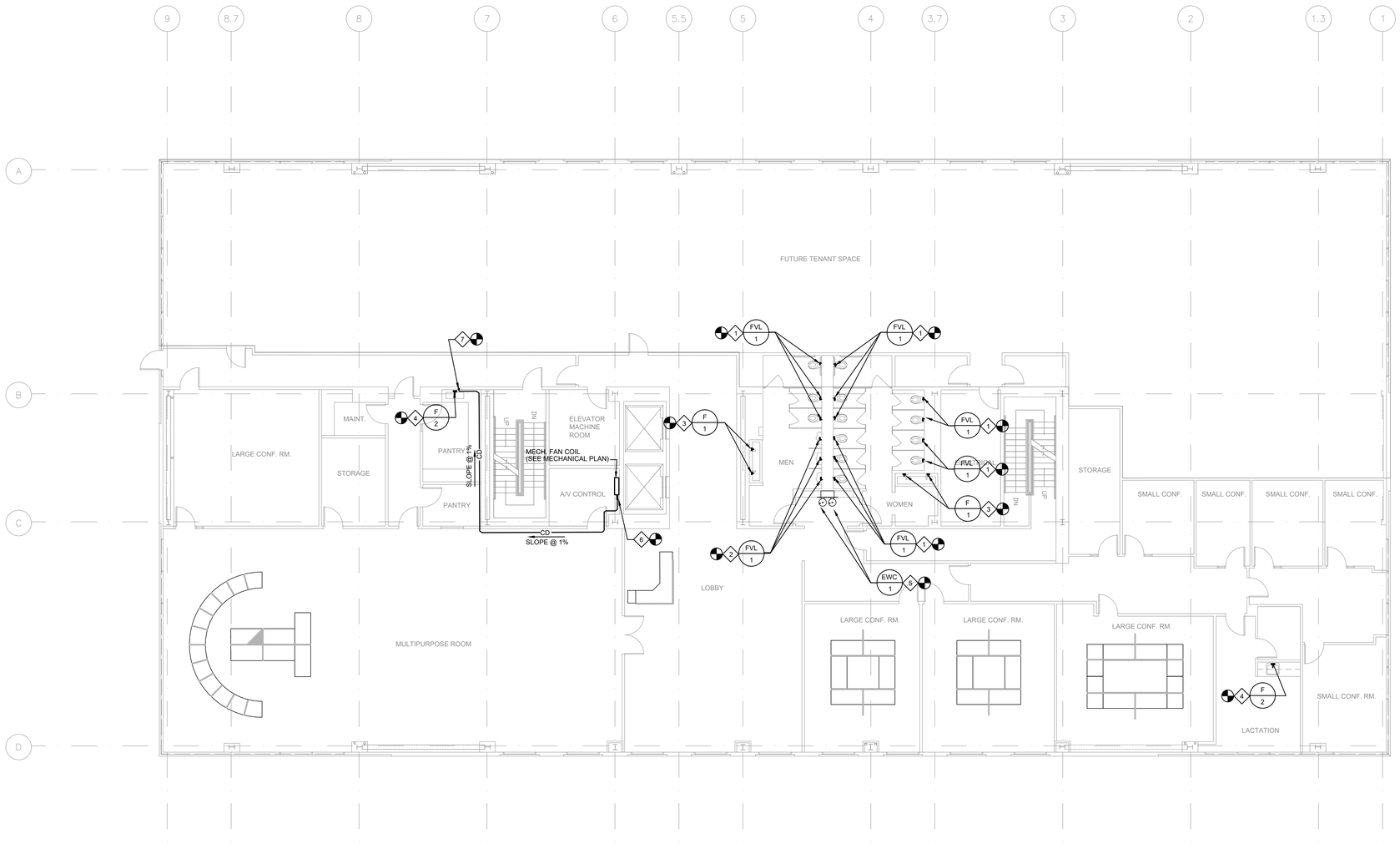

1 PLUMBING FIRST FLOOR REMODEL PLAN

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

GENERAL NOTES

1. PATCH AND REPAIR ALTERED SURFACES IN PREPARATION FOR NEW INSTALLATION AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

KEY NOTES

1. POC PROVIDE NEW 1-1/2" FLV-1 TOP SPOUT (FLUSH VALVE) TO (E)1" ROUGH IN UNION & CONTROL CHECK STOP WITH (N)1" NIPPLE. MAINTAIN, REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTION TO MAKE NEW CONSTRUCTION POSSIBLE WITHOUT OPENING THE WALL.
2. PROVIDE NEW 3/4" FLV-2 TOP SPOUT (FLUSH VALVE). POC TO (E) 3/4" ROUGH IN & CHECK CONTROL STOP WITH (N)3/4" NIPPLE. MAINTAIN, REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTION TO MAKE NEW CONSTRUCTION POSSIBLE WITHOUT OPENING THE WALL .
3. PROVIDE NEW FAUCET (F-1) W/ (N) 4" COVER PLATE AND SINGLE PUNCH HOLE CENTER . POC TO (E) 1/2" ROUGH IN & CHECK CONTROL STOP WITH (N) HOT & COLD WATER 1/2" BRAIDED SS HOSES WITH (N) THERMOSTATIC MIXING VALVE POINT OF USED & CONNECT TO F-1. REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTION TO MAKE NEW CONSTRUCTION POSSIBLE UNDER COUNTER WITHOUT OPENING THE WALL.
4. PROVIDE NEW FAUCET (F-2) W/ (N) 8" COVER PLATE AND SINGLE PUNCH HOLE CENTER. POC TO (E) 3/4" ROUGH IN & ANGLE STOPS WITH (N) 3/4" HOT & COLD WATER BRAIDED SS HOSES & (N) THERMOSTATIC MIXING VALVE AT POINT OF USED & CONNECT TO SENSOR FAUCET (F-2). REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTIONS TO MAKE NEW CONSTRUCTION POSSIBLE UNDER COUNTER WITHOUT OPENING THE WALL.
5. PROVIDE NEW DUAL EWC-1 W/ BOTTLE FILLER RE-ARRANGE & RE-ADJUST PORTION OF THE (E) WROUGH-IN UTILITIES CONNECTIONS IN THE WALL TO MAKE NEW CONSTRUCTION POSSIBLE. PATCH & PAINT TO MATCH EXISTING WALL . PROVIDE ELECTRICAL POWER, 2" W, 1-1/2" V , 3/4" CW WROGH-IN CONNECTIONS FROM DUAL BOWLS AND BOTTLE FILLER DRAINS W/ TRAP & ANGLE STOPS & CONNECT TO (E) 2" W, 1-1/2" V & 3/4 " CW IN WALL AND (E) ELECTRICAL POWER 120V, 1PHASE& 60 Hz. .
6. PROVIDE NEW 3/4 " CONDENSATE PUMP DISCHARGE FROM MECHANICAL BUILT-IN PUMP FAN COIL UNIT RISE UP BEL 2ND FLOOR SLAB WITH DUAL CHECK VALVES IN RISER & OFFSET 3/4" CD ABOVE CEILING @ 1% SLOPE TO PANTRY ROOM SINK TAILPIECE.
7. PROVIDE NEW 3/4 " CONDENSATE DRAIN DOWN IN WALL AND CONNECT TO (E)SINK TAILPIECE. REMOVE AND REPLACE (E) TAILPIECE WITH NEW 1-1/2" TAILPIECE WITH 3/4" CD "Y" CONNECTION.

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PROFESSIONAL SEAL

FIRST 5 LA CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

DESIGN BUILD BRIDGING DOCUMENTS

AGENCY APPROVAL

DISCLAIMER

Illinois Design Firm Registration #184-000973
REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**JULIO ESCOBAR**
Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

PLUMBING FIRST FLOOR REMODEL PLAN

SCALE

Scale: AS INDICATED

SHEET NUMBER

P2.01

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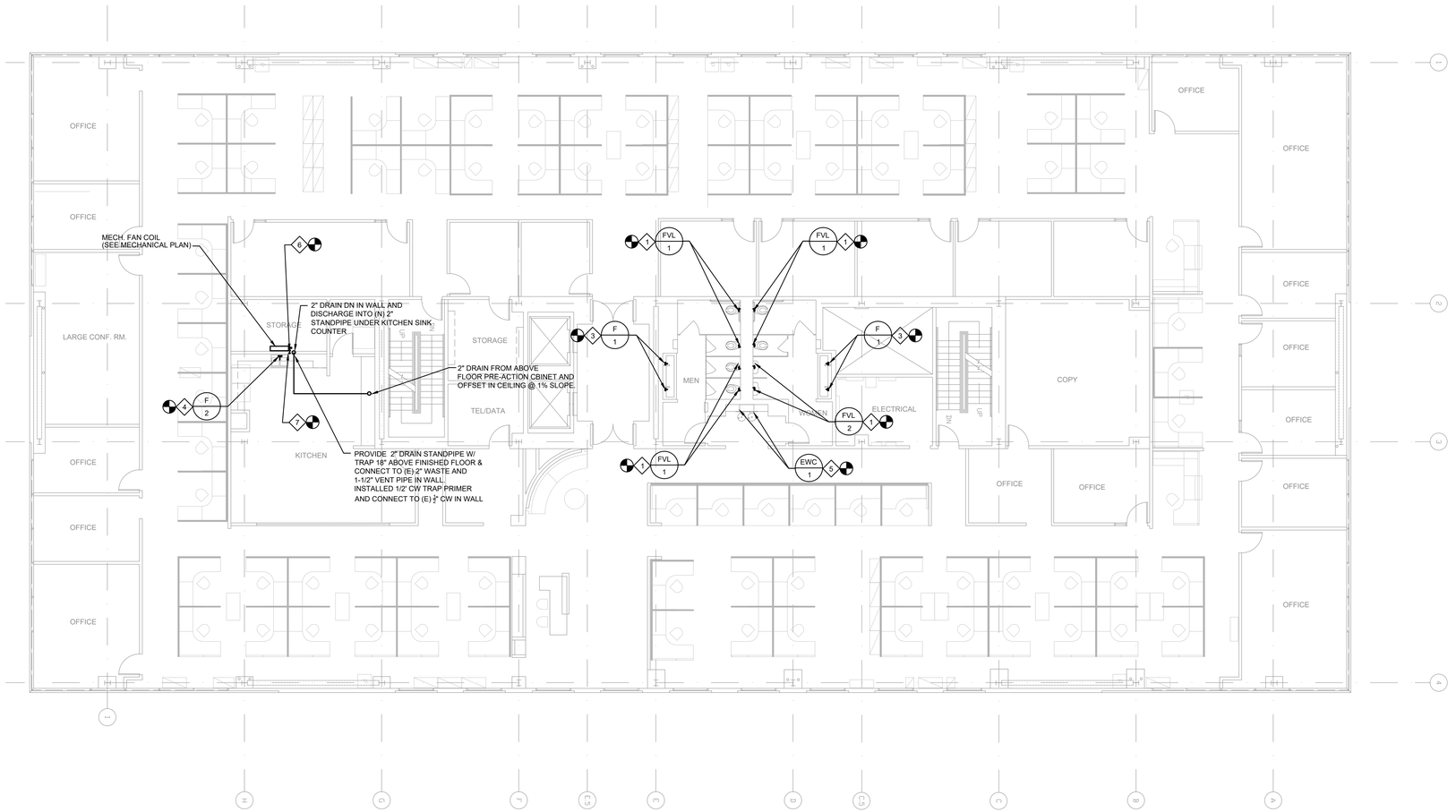

1 PLUMBING SECOND FLOOR REMODEL PLAN

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

GENERAL NOTES

1. PATCH AND REPAIR ALTERED SURFACES IN PREPARATION FOR NEW INSTALLATION AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

KEY NOTES

1. POC PROVIDE NEW 1-1/2" FLV-1 TOP SPOUT (FLUSH VALVE) TO (E)1" ROUGH IN UNION & CONTROL CHECK STOP WITH (N)1" NIPPLE. MAINTAIN, REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTION TO MAKE NEW CONSTRUCTION POSSIBLE WITHOUT OPENING THE WALL.
2. PROVIDE NEW 3/4" FLV-2 TOP SPOUT (FLUSH VALVE). POC TO (E) 3/4" ROUGH IN & CHECK CONTROL STOP WITH (N)3/4" NIPPLE. MAINTAIN, REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTION TO MAKE NEW CONSTRUCTION POSSIBLE WITHOUT OPENING THE WALL .
3. PROVIDE NEW FAUCET (F-1) W/ (N) 4" COVER PLATE AND SINGLE PUNCH HOLE CENTER . POC TO (E) 1/2" ROUGH IN & CHECK CONTROL STOP WITH (N) HOT & COLD WATER 1/2" BRAIDED SS HOSES WITH (N) THERMOSTATIC MIXING VALVE POINT OF USED & CONNECT TO F-1. REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTION TO MAKE NEW CONSTRUCTION POSSIBLE UNDER COUNTER WITHOUT OPENING THE WALL.
4. PROVIDE NEW FAUCET (F-2) W/ (N) 8" COVER PLATE AND SINGLE PUNCH HOLE CENTER. POC TO (E) 3/4" ROUGH IN & ANGLE STOPS WITH (N) 3/4" HOT & COLD WATER BRAIDED SS HOSES & (N) THERMOSTATIC MIXING VALVE AT POINT OF USED & CONNECT TO SENSOR FAUCET (F-2). REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTIONS TO MAKE NEW CONSTRUCTION POSSIBLE UNDER COUNTER WITHOUT OPENING THE WALL.
5. PROVIDE NEW DUAL EWC-1 W/ BOTTLE FILLER RE-ARRANGE & RE-ADJUST PORTION OF THE (E) WROUGH-IN UTILITIES CONNECTIONS IN THE WALL TO MAKE NEW CONSTRUCTION POSSIBLE. PATCH & PAINT TO MATCH EXISTING WALL . PROVIDE ELECTRICAL POWER, 2" W, 1-1/2" V , 3/4" CW WROGH-IN CONNECTIONS FROM DUAL BOWLS AND BOTTLE FILLER DRAINS W/ TRAP & ANGLE STOPS & CONNECT TO (E) 2" W, 1-1/2" V & 3/4 " CW IN WALL AND (E) ELECTRICAL POWER 120V, 1PHASE& 60 Hz. .
6. PROVIDE NEW 3/4 " CONDENSATE DISCHARGE FROM MECHANICAL FAN COIL UNIT OFFSET 3/4" CD IN WALL WITH CHROME PLATED ESCUTCHEON DN KITCHEN ROOM SINK TAILPIECE.
7. PROVIDE NEW 3/4 " CONDENSATE DRAIN DOWN IN WALL AND CONNECT TO (E)SINK TAILPIECE. REMOVE AND REPLACE (E) TAILPIECE WITH NEW 1-1/2" TAILPIECE WITH 3/4" CD "Y" CONNECTION.

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FIRST 5 LA CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

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AGENCY APPROVAL

DISCLAIMER

Illinois Design Firm Registration #184-000973

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Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE

PLUMBING SECOND FLOOR REMODEL PLAN

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SHEET NUMBER

P2.02

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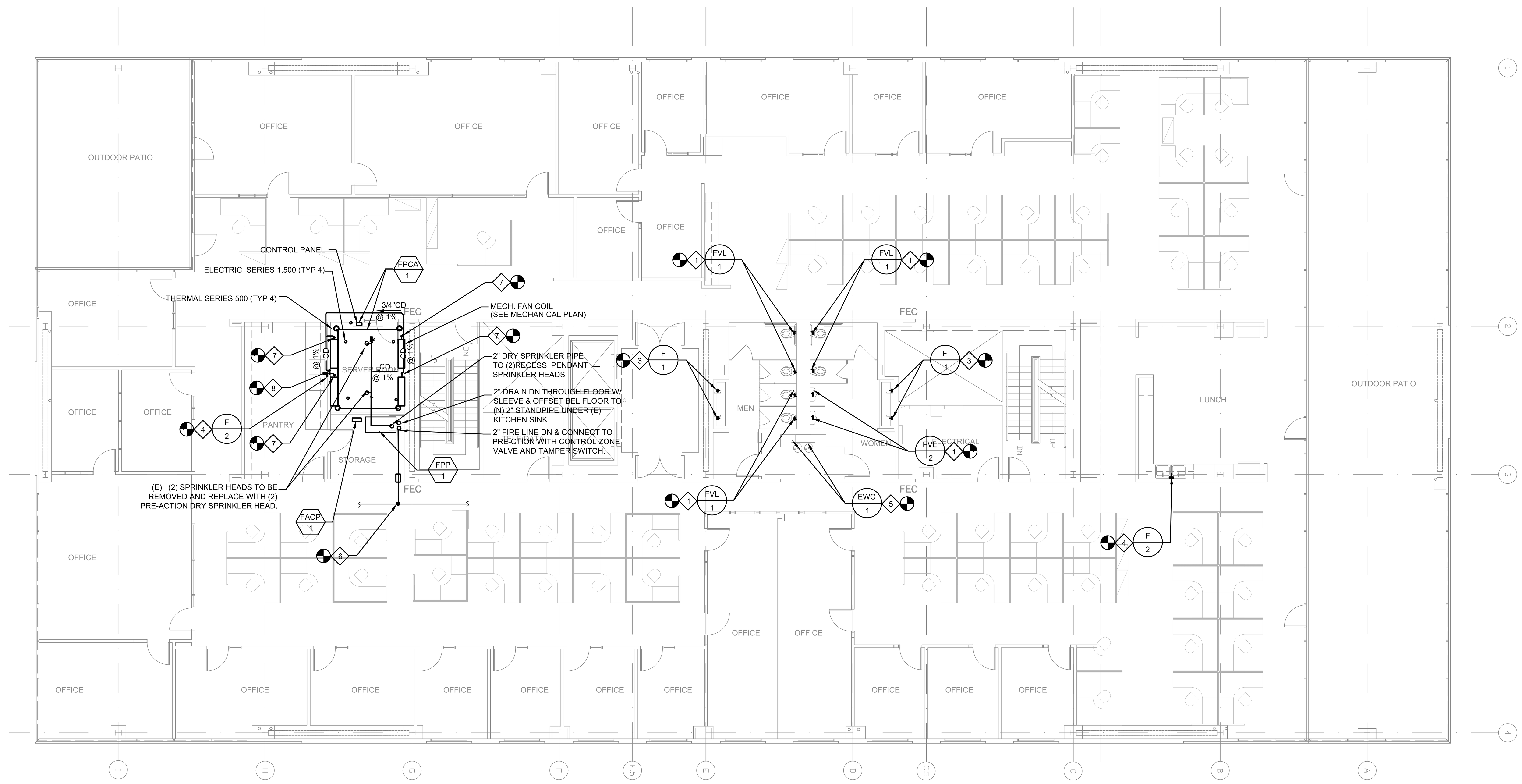

PLUMBING THIRD FLOOR REMODEL PLAN

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

GENERAL NOTES

1. PATCH AND REPAIR ALTERED SURFACES IN PREPARATION FOR NEW INSTALLATION AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

KEY NOTES

1. POC PROVIDE NEW 1-1/2" FLV-1 TOP SPOUT (FLUSH VALVE) TO (E)1" ROUGH IN UNION & CONTROL CHECK STOP WITH (N)1" NIPPLE. MAINTAIN, REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTION TO MAKE NEW CONSTRUCTION POSSIBLE WITHOUT OPENING THE WALL.
2. PROVIDE NEW 3/4" FLV-2 TOP SPOUT (FLUSH VALVE). POC TO (E) 3/4" ROUGH IN & CHECK CONTROL STOP WITH (N)3/4" NIPPLE. MAINTAIN, REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTION TO MAKE NEW CONSTRUCTION POSSIBLE WITHOUT OPENING THE WALL .
3. PROVIDE NEW FAUCET (F-1) W/ (N) 4" COVER PLATE AND SINGLE PUNCH HOLE CENTER . POC TO (E) 1/2" ROUGH IN & CHECK CONTROL STOP WITH (N) HOT & COLD WATER 1/2" BRAIDED SS HOSES WITH (N) THERMOSTATIC MIXING VALVE POINT OF USED & CONNECT TO F-1. REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTION TO MAKE NEW CONSTRUCTION POSSIBLE UNDER COUNTER WITHOUT OPENING THE WALL.
4. PROVIDE NEW FAUCET (F-2) W/ (N) 8" COVER PLATE AND SINGLE PUNCH HOLE CENTER. POC TO (E) 3/4" ROUGH IN & ANGLE STOPS WITH (N) 3/4" HOT & COLD WATER BRAIDED SS HOSES & (N) THERMOSTATIC MIXING VALVE AT POINT OF USED & CONNECT TO SENSOR FAUCET (F-2). REARRANGE OR RE-ADJUST PORTION OF THE EXISTING ROUGH-IN CONNECTIONS TO MAKE NEW CONSTRUCTION POSSIBLE UNDER COUNTER WITHOUT OPENING THE WALL.
5. PROVIDE NEW DUAL EWC-1 W/ BOTTLE FILLER RE-ARRANGE & RE-ADJUST PORTION OF THE (E) WROUGH-IN UTILITIES CONNECTIONS IN THE WALL TO MAKE NEW CONSTRUCTION POSSIBLE. PATCH & PAINT TO MATCH EXISTING WALL . PROVIDE ELECTRICAL POWER, 2" W, 1-1/2" V , 3/4" CW WROGH-IN CONNECTIONS FROM DUAL BOWLS AND BOTTLE FILLER DRAINS W/ TRAP & ANGLE STOPS & CONNECT TO (E) 2" W, 1-1/2" V & 3/4 " CW IN WALL AND (E) ELECTRICAL POWER 120V, 1PHASE& 60 Hz. .
6. PROVIDE NEW POC 2" FIRE LINE CONNECT TO (E) 3" MAIN FIRE LINE ABOVE CEILING
7. PROVIDE NEW 3/4 " CONDENSATE PUMP DISCHARGE FROM MECHANICAL BUILT-IN PUMP FAN COIL UNIT RISE UP BEL 2ND FLOOR SLAB WITH DUAL CHECK VALVES IN RISER & OFFSET 3/4" CD ABOVE CEILING @ 1% SLOPE TO PANTRY ROOM SINK TAILPIECE.
8. PROVIDE NEW 1 " CONDENSATE DRAIN DOWN IN WALL AND CONNECT TO (E)SINK TAILPIECE. REMOVE AND REPLACE (E) TAILPIECE WITH NEW 1-1/2" TAILPIECE WITH 1" CD "Y" CONNECTION.

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Checked	**PAUL DONG**
Approved	**PAUL DONG**

SHEET TITLE
PLUMBING THIRD FLOOR REMODEL PLAN

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SHEET NUMBER
P2.03

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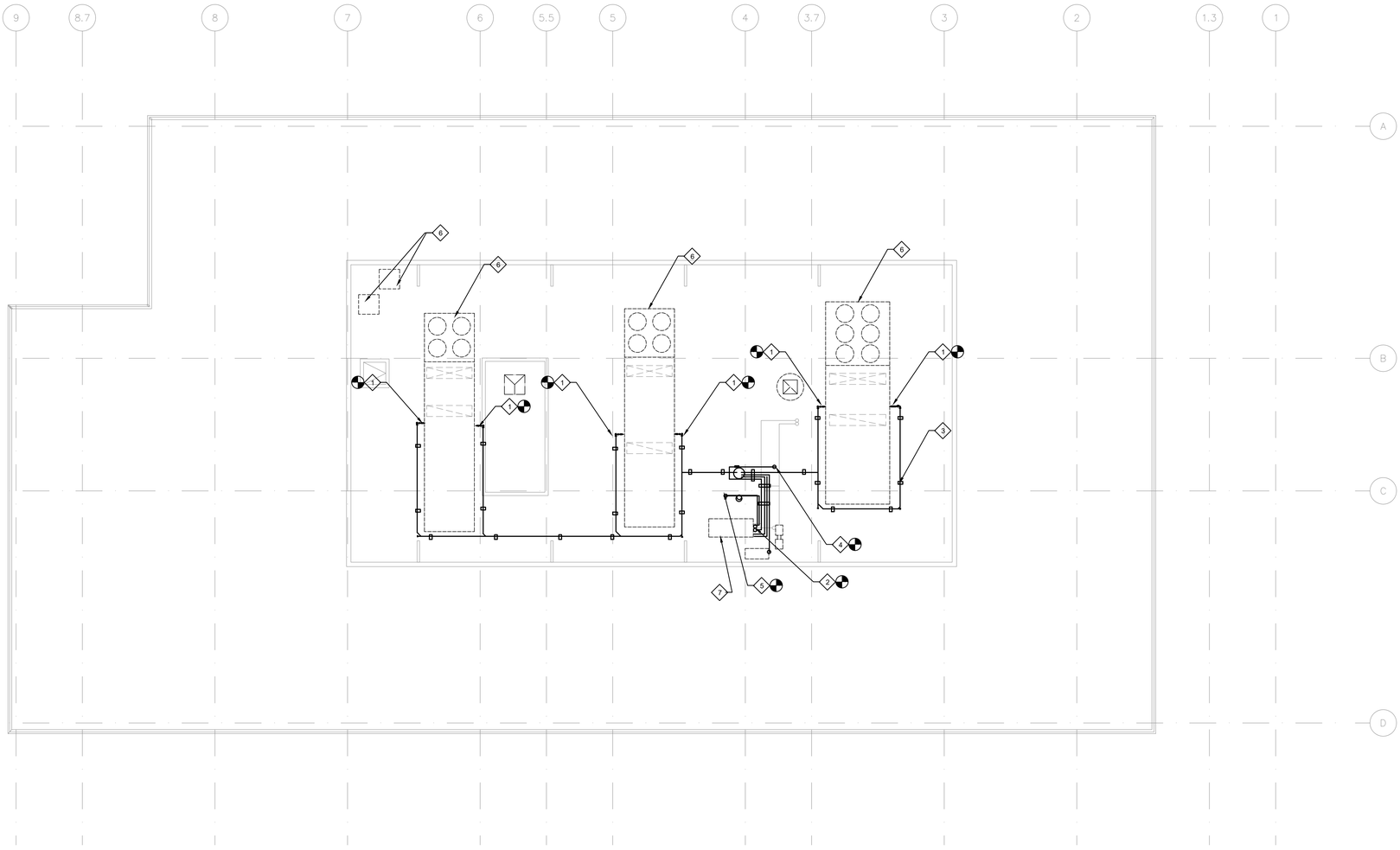

1 PLUMBING ROOF REMODEL PLAN

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

GENERAL NOTES

1. PATCH AND REPAIR ALTERED SURFACES IN PREPARATION FOR NEW INSTALLATION AS INDICATED ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

KEY NOTES

1. POC. PROVIDE NEW 1" CONDENSATE DRAIN W/ UNION, P-TRAP & FLEXIBLE CONNECTIONS FROM MECHANICAL EQUIPMENT TO POD SEE PLUMBING DEMOLITION ROOF PLAN . CONTRACTOR TO COORDINATE WITH OTHER TRADES PRIOR TO REMODEL .
2. POC PROVIDE NEW 2" DRAINS, ¾" RELIEF DRAIN, 1" MAKE UP WATER AND 2" NATURAL GAS CONNECTIONS FROM MECHANICAL BOILER MECHANICAL EQUIPMENT POD SEE PLUMBING DEMOLITION ROOF PLAN. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO REMODEL . PROVIDE NEW SHUT-OFF & STAINLESS STEEL FLEX. CONNECTION AT BOILER CONNECTION FOR GAS AND MAKE-UP WATER, AND PROVIDE NEW 1" BFP-1 & PRV -1
3. PROVIDE 1" CD PIPE ROOF SUPPORT 10FT ON CENTER MAX. (TYP)
4. POC PROVIDE 1" CW W/ SOV & UNION CONNECT TO (E) 1" CW FROM BEL ROOF
5. POC PROVIDE 1" NAT GAS W/ SOV , UNION AND GAS PRESSURE REGULATOR CONNECT TO (E) 1" G FROM BEL ROOF
6. MECHANICAL EQUIPMENT (SEE MECHANICAL PLANS)
7. MECHANICAL BOILER (SEE MECHANICAL PLANS)

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PLUMBING ROOF REMODEL PLAN

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SHEET NUMBER

P2.04

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GENERAL NOTES

GENERAL

1. All work shall comply with 2019 California Building Code Volume 2 and all other local or state agencies having jurisdiction over this project.
2. All drawings are considered to be a part of the Contract Documents. The Contractor shall be responsible for the review and coordination of all drawings prior to the start of construction. Any discrepancies that occur shall be brought to the attention of the Architect prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the Contract Documents or any code requirements shall be corrected by the Contractor at his own expense and at no expense to the Owner or Architect.
3. All symbols and abbreviations used on the drawings are considered to be construction standards. If clarification is required, the Contractor shall notify the Architect prior to proceeding with the work.
4. All dimensions and the site conditions shall be verified by the Contractor at the job site prior to submittal, start of shop drawings, start of construction, and/or fabrication of materials. If discrepancies are encountered, or conditions develop not covered by the Contract Documents, the Architect shall be notified for clarification.
5. Contractor shall provide and be responsible for the protection and repair of adjacent existing surfaces and areas which may be damaged as a result of new work.
6. Do not scale drawings. Printed dimensions have precedence over scaled drawings and large scale over small.
7. Typical details shall apply in general construction unless specifically detailed. Where no details are given, construction shall be as shown for similar work.
8. The Contract Documents represent the finished structure. They do not indicate the method of construction. The Contractor shall provide all measures necessary to protect the structure and safety of workmen during construction. Such measures shall include but not be limited to, bracing, shoring for loads due to construction equipment, etc. Observation visits to the site by the Architect or Structural Engineer shall not include inspection of the above items and does not in any way relieve the Contractor of his responsibilities for the above.
9. For trenches or excavations (5) five feet or more in depth into which a person is required to descend, the Contractor is to obtain the necessary permit from the State of California, Division of Industrial Safety, prior to the issuance of a building permit.
10. Refer to the architectural, electrical and mechanical drawings for details, conditions, pits, trenches, depressions, roof openings, sleeves, items to be embedded or attached to structural elements, etc., not shown on the structural drawings.
11. No holes, notches, blockouts, etc. are allowed in structural elements unless detailed on the structural drawings or approved by the Structural Engineer.
12. All information shown on the drawings relative to existing conditions is given as the best present knowledge from plans supplied by the Owner, but without guarantee of accuracy. Where actual conditions conflict with the drawings, they shall be reported to the Architect or Engineer so that proper clarification may be made. Modification of details of construction shall not be made without written approval of the Architect or Structural Engineer.

CAST-IN-PLACE CONCRETE

1. All cement shall conform at ASTM C-150, Type V .
2. Fine and coarse aggregate shall conform to ASTM C-33.
3. Concrete shall have the following minimum 28 day strength:
   All concrete U.N.O. - 4500 psi Stone w W/C = 0.45.
   For exterior Concrete Walks, Curbs, etc. and Misc. Concrete see Civil drawings.
4. Concrete design mixes and aggregates sizes shall be approved by the structural engineer and comply with the following:

Material	Aggregate Max. Size	Minimum Compressive Strength (PSI) 7 Day	28 Day
Concrete/Foundation/ Ramps and Retaining Walls	1 1/2"	1800	4500

5. Placing of all concrete shall be inspected by the IOR and/or special inspector. Inspector to verify that reinforcing steel is securely supported in place during the pour.
6. Location of construction joints or pour joints shall be as shown on plans or as approved by the Engineer or Architect prior to pouring concrete and conform to Title 24, Part 2, Vol. 2, 1908A.7
7. Anchor bolts, dowels, reinforcing steel, inserts, etc., shall be securely tied in place prior to pouring concrete. Concrete blocks only shall be used to support reinforcing off grade.
8. Concrete slabs shall be cured by keeping continuously wet for 7 days. Forms for concrete walls shall be left in place for 7 days or they may be stripped after 3 days and then covered with burlap which shall be kept wet for an additional 7 days. No curing compounds shall be used unless approved by the Structural Engineer.
9. Notify the Structural Engineer 48 hours minimum prior to all pours.
10. Provide 3/4" chamfer on all exposed concrete corners.
11. All concrete shall be vibrated in place during placing of concrete.
12. No stakes, steel or wood, shall be permitted in any concrete pour. Suspend forms from above grade.
13. Grout shall be 1:3:2 Portland cement to sand to pea gravel with a minimum 28 day strength of 3000 psi.
14. Key joint shall be provided for concrete cold joints.
15. Non-shrink grout shall confirm with ASTM C109, non-metallic and shall have a minimum 28 days strength of 5000 psi.

STRUCTURAL STEEL

1. Structural steel shall conform to ASTM Specifications as noted below and to the AISC Specifications for fabrication and erection:
   A. Plates, angles, threaded rods, channels and miscellaneous: A-36.
   B. Pipe Sections: A-53, Grade B.
   C. HSS Sections: A-500, Grade B.
2. All welding shall conform to the specifications of the American Welding Society and shall be performed by certified welders using E70XX electrodes (U.N.O.) and the electric arc process.
3. Weld lengths called for on the plans are the net effective length required. Where fillet weld symbol is given without indication of size, use minimum size welds as specified in AISC Manual of Steel Construction, 360-10 14th edition.
4. All steel exposed to weather shall be hot-dipped galvanized after fabrication. Abraded areas to be touched up with galvaloy. All tubes and/or pipes shall have welded cap plates to seal exposed ends.
5. Bolts shall conform to ASTM A-307 specifications typically unless noted otherwise on details.
6. All welding shall be specially inspected by an AWS-CWI Qualified inspector approved by DSA.

REINFORCING

1. All reinforcing shall conform to ASTM A-615 specifications, Grade 60. Welded bars shall be ASTM A-706.
2. Reinforcing bars shall be spliced and bent in strict accordance with the drawings and details and C.R.S.I. publications. No kinks allowed. All bars shall be clean prior to concrete placement.
3. Provide dowels of same size and number from adjacent pour, both vertically and horizontally to match typical reinforcing shown. Laps to be in accordance with the drawings and details. Dowels shall be cleaned after pour.
4. Use low hydrogen electrodes, Grade E-90, for welding of reinforcing bars.
5. Shop drawings for reinforcing steel shall be submitted to the structural engineer for approval prior to fabrication.
6. Field welding or bending of reinforcing is not permitted except as indicated on the drawings or as approved by the Structural Engineer.
7. Reinforcing steel shall be securely tied in place prior to inspection and placing of concrete. Do not place reinforcing in wet concrete.

MECHANICAL ANCHORS

1. Expansion anchor systems:
   A. Concrete: Use only expansion anchor systems that have been issued an ICC-ES report in accordance with the provisions of ICC-ES AC193. Anchor systems should be approved for use in cracked concrete and seismic design categories A-F per icc evaluations services report. Anchor systems shall be installed per the requirements of the ICC-ES evaluation services report for the specific anchor, and as required by the manufacturer. All expansion anchors shall be HILTI KB-TZ (ESR-1917) as specified on details. Any substitution must be approved by SEOR and DSA.
2. Where the manufacturer's installation instructions or applicable ICC-ES evaluation services report call for the application of an installation torque, the specified torque shall be applied with a calibrated torque wrench. The specified installation torque shall not be exceeded.
3. Anchors are typically available in Electro-galvanized carbon steel, Hot-dipped galvanized carbon steel, and Stainless steel. Use of Electro-galvanized carbon steel anchors is Typically limited to dry, Interior locations, unless otherwise noted. Stainless steel or hot-dipped galvanized anchors shall be used applications exposed to exterior weather conditions. Final authority on the type of anchor coating utilized rests with The Structural Engineer of record and must be approved by such.
4. Expansion anchors for non-vibration isolated mechanical equipment rated over 10HP are not permitted by ASCE 7-10 Section 13.6.5.5. Anchors installed in overhead conditions for non-vibration isolated equipment with reciprocating or rotating mechanisms shall be undercut anchors.
5. The special inspector shall be on the jobsite continuously during anchor installations, unless otherwise noted in ICC-ES ESR, to verify anchor type, anchor dimensions, concrete type, concrete compressive strength, hole dimensions, anchor spacings, edge distances, slab thickness, anchor embedment, and tightening torque.
6. The testing of the expansion anchors shall be done in the presence of the special inspector and a report of the test results shall be submitted to the enforcement agency. If any anchors fail the testing requirements, the additional testing requirements shall be performed according to 2019 CBC section 1916A.5.
7. Test quantity of anchors as noted below:

Application	Quantity
Structural	100% of bolts
Non-structural	50% of bolts
Sill plate bolting	10% of bolts

8. Anchors to be tested shall be selected at random by the Special Inspector.
9. Undercut anchors that allow visual confirmation of full set need not be tested, unless otherwise noted by Enforcement Agency or Engineer or Record.
10. The test load may be applied by using of a calibrated torque wrench for torque-controlled expansion anchors.
11. The following criteria apply for the acceptance of installed anchors:
    A. Torque wrench method: The applicable test torque must be reached within one-half (1/2) turn of the nut.
12. If any anchor fails testing, test all anchors of the same type, installed by the same trade, not previously tested until twenty (20) consecutive anchors pass, then resume the initial test frequency.
13. When installing drilled-in anchors in existing non-prestressed reinforced concrete, use care and caution to avoid cutting or damaging the existing reinforcing bars. When installing them into existing prestressed concrete (pre- or post-tensioned), locate the prestressed tendons by using a non-destructive method prior to installation. Exercise extreme care and caution to avoid cutting or damaging the tendons during installation. Maintain a minimum clearance of one inch between the reinforcement and the drilled-in anchor.
14. If rebar is encountered during the drilling, the contractor shall immediately terminate drilling and contact The Engineer of Record.
15. Locate reinforcement and confirm final anchor locations prior to fabricating plates, members, or other steel assemblies attached with mechanical anchors.
16. If the concrete cracks during the installation of the anchor, the anchor shall be removed or abandoned.
17. Unless otherwise noted, provide minimum embedment of anchors as follows:

Anchor bolt diameter	Anchor bolt embedment * KB-TZ
3/8"	2"
1/2"	2"
5/8"	3 1/8"

    * EMBEDMENTS BASED ON ICC-ES ESR 1917.
18. For required test torque values refer to ICC-ESR evaluation service report and torque values as fallows:

Anchor bolt diameter	Torque KB-TZ
3/8"	25
1/2"	40
5/8"	60

19. Testing shall occur a minimum of 24 hours after installation of the subject anchors.

POWDER ACTUATED FASTENERS

1. Powder actuated fastening systems shall be installed in normal weight and lightweight concrete, masonry and steel per the requirements of the CBC 2019 section 1910A.5 and ICC-ES evaluation services report ICC-2269 and as required by the manufacturer.
2. When installing powder actuated fasteners in existing non-prestressed reinforced concrete, use care and caution to avoid hitting the existing reinforcing bars. maintain a minimum clearance of one inch between the reinforcement and the fastener.
3. PAF shall not be used to resist seismic shear forces except at interior non-load bearing, non-shear wall partition walls (as permitted by 2019 CBC section 1616A.1.19) and components exempt from construction document review by 2019 CBC section 1616A.1.18 (not permitted to take seismic shear by ICC-ES AC70 for any other conditions). PAF shall not be used to carry seismic tension loads (except for vertical seismic load produced by self weight of the components) or in cracked concrete unless approved for such loading by oshpd
4. For minimum edge distance and spacing refer to ICC-2269.
5. Tension testing of powder actuated fasteners installed in concrete shall comply with CBC 2019 section 1910A.5
6. Testing of powder actuated fasteners used to attach tracks of interior non-shear wall partitions for shear only, where there are at least three fasteners, is not required.
7. If any fasteners fails testing, test all fasteners of the same type, installed by the same trade, not previously tested until twenty (20) consecutive fasteners pass, then resume the initial test frequency.
8. PAF shall be installed per current ICC-ES-2269 evaluation reports.
9. PAF shall not be used in pre-stressed concrete unless non-destructive testing methods are used to locate strand and reinforcement prior to fastener installation.
10. concrete fill depth above the top of metal deck must be a minimum of 3-1/4" at light weight concrete composite metal deck.
11. Power actuated fastener installed through low flutes of the metal deck shall meet the requirements of the installation criteria as specified in ICC-2269.
12. Test values for 0.157 dia. X-U HILTI shot pin:

Fastener Description	Fastener	Shank Diameter	Minimum Embedment	Installed into Concrete	Installed Through Metal Deck Panel into Concrete		
					3-inch deep composite floor deck panel		
					Tension Test Load		
				Tension Test Load	Upper Flute	Lower Flute	
Universal Knurled Shank	X-U (ICC-2269)	0.157 dia.	1" Embed.	410	430	310	
			1 1/4" Embed.	630	590	400	
			1 1/2" Embed.	630	590	400	

ADHESIVE ANCHOR RODS, DOWELS AND REBARS

1. Chemical Anchor Systems:
   A. Concrete: use only adhesive anchor systems that have been issued an esr report in accordance with the provisions of esr ac308. anchor system should be approved for use in cracked concrete and seismic design categories a-f per section 2.0 of the esr evaluation services report. anchor systems shall be installed per the requirements of the esr evaluation services report for the specific anchor and as required by the manufacturer.
   B. Grout-filled masonry units: use only adhesive anchor systems that have been issued an esr report in accordance with the provisions of esr ac58, and have passed optional creep tests described in section 4.4.3 of ac58. anchor systems shall be installed per the requirements of the esr evaluation services report for the specific anchor and as required by the manufacturer.
   C. Anchors and dowels installed into hollow masonry units and unreinforced brick masonry (urm): use screens as specified by the manufacturer. embedment depth for anchors shall be per the applicable esr evaluation services report.
2. Anchor Rods:
   All rods shall be astm a36 threaded rods with astm a 563 grade a nuts and ANSI B18.22.1 type a washers, unless otherwise noted. anchors designated as astm a193 grade B7 threaded rods shall use astm 563 grade dh heavy hex nuts and astm f436 washers.
3. Dowels: ASTM A615 Grade 60 reinforcing steel.
4. Reinforcement bars: ASTM A615 Grade 60 steel.
5. Remove grease, oil, rust and any other laitance from rods and dowels prior to installation.
6. Special inspection requirements will be dictated by section 4.0 of the ICC-ES Evaluation services report. any special inspection shall verify anchor type anchor dimensions, concrete type, concrete compressive strength, hole dimensions, anchor spacings, edge distances, slab thickness, anchor embedment, and tightening torque.
7. The tension testing of the chemical anchors shall be done in the presence of the special inspector and a report of the test results shall be submitted to the enforcement agency. if any anchors fail the tension-testing requirements, the additional testing requirements shall be acceptable to the enforcement agency.
8. Test quantity of anchors as noted below:

Application	Quantity
Structural	100% OF Bolts
Non-structural	50% OF Bolts
Sill plate bolting	10% OF Bolts

9. Anchors to be tested shall be selected at random by the special inspector.
10. Where adhesive anchor systems are used to install reinforcing dowel bars in hardened concrete, only 25% of the dowels need be tested if the following conditions are met:
    A. The dowels are used exclusively to transmit shear forces across joints between existing and new concrete;
    B. The number of dowels in any one member equals or exceeds 12;
    C. The dowels are uniformly distributed across seismic force resisting members (such as shear walls, collectors and diaphragms).
11. Testing of shear dowels across cold joints in slabs on grade where the slab is not part of the lateral force-resisting system is not required.
12. Replace anchors and dowels that fail during testing and retest. if more than 10% of the tested dowels and anchors fail to achieve the specified test load, test 100% of the dowels and anchors installed within the last 2 days of anchor installation.
13. A Hydraulic cylinder shall be used to apply the tension test load to the anchor with the cylinder supported on a loading plate having a hole diameter equal to 1.5 to 2.0 times the anchor hole diameter (confined configuration) unless otherwise approved by enforcement agency.
14. The following criteria apply for the acceptance of installed anchors:
    A. Hydraulic ram method: the anchor shall have no observable movement at the applicable test load.
15. If any anchor fails testing, test all anchors of the same type, installed by the same trade, not previously tested until twenty (20) consecutive anchors pass, then resume the initial test frequency.
16. All holes for post-installed anchors shall be drilled, cleaned and prepared in accordance with manufacturer's recommendations and the applicable esr. where an anchor does not set properly, or fails a tension test, or reinforcement is encountered during drilling, the drilled hole may not be reused. abandoned holes shall be filled with non-shrink grout. the minimum spacing between an abandoned hole and a drilled hole used for a post-installed anchor shall not be less than 1-1/2 anchor diameters unless otherwise approved by the enforcement agency. if the anchor or dowel may not be shifted as noted above, the structural engineer of record will determine a new location.
17. Locate reinforcement and confirm final anchor locations prior to fabricating plates, members, or other steel assemblies attached with adhesive anchors.
18. Required test loads are called out at details. test acceptance criteria shall be per section 1910A.5.4 of CBC 2019.

TESTS AND INSPECTION REQUIREMENTS	CBC SECTION
FOUNDATIONS & RETAINING WALLS	
Chapter 18A	
1. Inspection:	
CONCRETE	
Chapter 19A	
1. Materials	
• Portland Cement	1705A3.2; 1910A.1
• Concrete aggregates	1705A.3.2; 1903A.5
• Reinforcing bars	1705A.3.2; 1910A.2
2. Quality	
• Proportions of concrete	1910A.1; table 1705A.3 item 5
• Strength tests of concrete	1905A.1.16; table 1705A.3 item 6; ACI 318-14 sec. 26.12
• shortcrete cores	1908A.5
3. Inspection	
• Batch plant	1705A.3.3
• Waiver of batch plant	1705A.3.3.1
• Replacement and placing	1705A.3.5; 1705A.3.6
• Post-installed anchors in concrete	1910A.5; table 1705A.3, items 4A & 4B
• Reinforcing bar welding	1903A.8; 1705A.3.1; table 1705A.3, item 2; table 1705A.2.1, item 5B
STEEL	
CHAPTER 22A	
1. Materials	
• Structural steel	2205A.1
• Cold formed steel	2210A.1
• Identification	2203A.1
2. Quality	
• Tests of structural and cold formed steel	2211A.1
• Tests of high strength bolts, nuts washer	2213A.1
• Tests of end welded studs	2213A.2
• Steel joists	2207A; 1705A.2.3.1
• Non-destructive weld tests	1705A.2.1
3. Inspection	
• Shop fabrication	1704A.2.5;1705A.2
• Welding	1705A.2.1
• Nelson stud welding	1705A.2.1
• High strength bolt installation	1705A.2.1; table 1705A.2.1

STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:	ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS	LL	LIVE LOAD
@	AT	LLH	LONG LEG HORIZONTAL
°	DEGREE	LLV	LONG LEG VERTICAL
Ø	DIAMETER	LSH	LONG SIDE HORIZONTAL
-3"	SLAB DEPRESSION	LSV	LONG SIDE VERTICAL
A.B.	ANCHOR BOLT	LO	LOW
AHU	AIR-HANDLING UNIT	LONG	LONGITUDINAL
ARCH	ARCHITECT, -URE, -URAL	LT WT	LIGHTWEIGHT
B.O.	BOTTOM OF	M.B.	MACHINE BOLT
bf	BEAM FLANGE WIDTH	MAX	MAXIMUM
BF	BRACE FRAME	MECH	MECHANICAL
BLKG	BLOCKING	MANUF	MANUFACTURER
BM	BEAM	MIN	MINIMUM
B.N.	BOUNDARY NAILING	MTL	METAL
B.O.F.	BOTTOM OF FOOTING	N	NORTH
BOTT	BOTTOM	(N)	NEW
BP	BASE PLATE	NIC	NOT IN CONTRACT
BTWN	BETWEEN	NTS	NOT TO SCALE
CFSF	COLD FORM STEEL FRAMING	OC	ON CENTER
CLR	CLEAR	OH	OPPOSITE HAND
CL	CENTERLINE	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	PC	PIECE
COL	COLUMN	PCF	POUNDS PER CUBIC FOOT
CONC	CONCRETE	P.H.	PENTHOUSE
CONT	CONTINUOUS	PL	PLATE
C.P.	COMPLETE JOINT PENETRATION WELD	PLF	POUNDS PER LINEAR FOOT
DIA	DIAMETER	PLYWD	PLYWOOD
DIM	DIMENSION	P.P.	PARTIAL JOINT PENETRATION WELD
DL	DEAD LOAD	PSF	POUNDS PER SQUARE FOOT
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	PTDF	PRESSURE TREATED DOUGLAS FIR
DWL	DOWEL	R	RADIUS
EA	EACH	REINF	REINFORCING, -MENT, -ED
EF	EACH FACE	REQD	REQUIRED
EL	ELEVATION	RTU	ROOF TOP UNIT
ELEC	ELECTRICAL	SC	TC WITH CLASS A FAYING SURFACE
ELEV	ELEVATOR	SCBF	SPECIAL CONCENTRIC BRACE FRAME
E.N.	EDGE NAILING	SCHED	SCHEDULE
EOD	EDGE OF DECK	SEPN	SEPARATION
EOS	EDGE OF SLAB	SIM	SIMILAR
EQ	EQUAL	SHTG	SHEATHING
EQUIP	EQUIPMENT	SL	SNOW LOAD
EW	EACH WAY	SLRS	SEISMIC LOAD RESISTING SYSTEM
(E)	EXISTING	SOG	SLAB ON GRADE
EXP	EXPANSION	SP	SPACE(S)
EXT	EXTERIOR	SPEC	SPECIFICATION(S)
f´c	CONCRETE COMPRESSIVE STRENGTH	SQ	SQUARE
FDN	FOUNDATION	STIFF	STIFFENER
FIN	FINISH, -ED	STL	STEEL
FLR	FLOOR	SUPPT	SUPPORT
F.N.	FIELD NAILING	SYM	SYMMETRICAL
F.O.S.	FACE OF STUD	T&B	TOP AND BOTTOM
F.O.W.	FACE OF WALL	T.O.	TOP OF
FRMG	FRAMING	T.O.S.	TOP OF STEEL
FT	FOOT	T.O.W.	TOP OF WALL
FTG	FOOTING	TC	PRE-TENSIONED BOLT
Fy	YIELD STRESS	TEMP	TEMPERATURE
GA	GAGE OR GAUGE	tf	BEAM FLANGE THICKNESS
GALV	GALVANIZED	THK	THICK
GB	GRADE BEAM	TRANS	TRANSVERSE
HI	HIGH	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HSB	HIGH STRENGTH BOLT	VERT	VERTICAL
IN	INCH	VIF	VERIFY IN FIELD
INT	INTERIOR	VWA	VERIFY WITH ARCHITECTURAL DRAWINGS
JT	JOINT	W/	WITH
K, KIP	KILOPOUND (1,000 POUNDS)	WP	WORK POINT
KSP	KIPS PER SQUARE FOOT	WT	WEIGHT
LB	POUND	WWR	WELDED WIRE REINFORCING

STRUCTURAL SHEET INDEX

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PROFESSIONAL SEAL

FIRST 5 LA CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

DESIGN BUILD BROIDGING DOCUMENTS

AGENCY APPROVAL

Illinois Design Firm Registration #184-000973
REFERENCE SCALE IN INCHES
0 1 2

REVISIONS

No.	Date	Revision / Issue

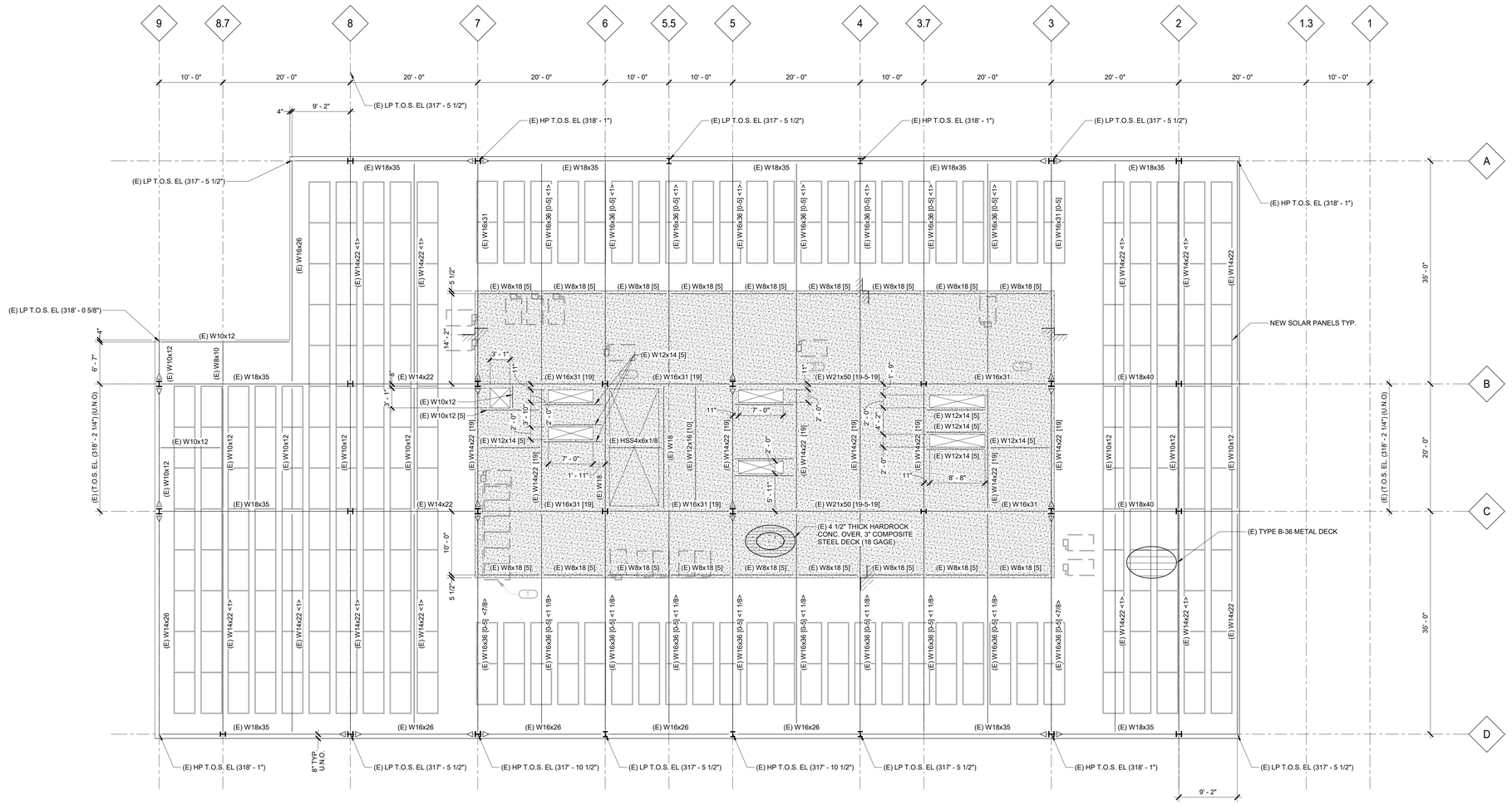
SHEET INFORMATION

Issue	**100% DD Bridging Document**
Date	**03/09/2021**
Job Number	**19002647.00**
Drawn	**Author**
Checked	**Checker**
Approved	**Approver**

SHEET TITLE
GENERAL NOTES

SCALE
Scale: **1 : 1**

SHEET NUMBER
S100



1 (E) ROOF FRAMING PLAN - HP T.O.C. EL (319' - 0 1/4")

1/8" = 1'-0"

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SHEET TITLE

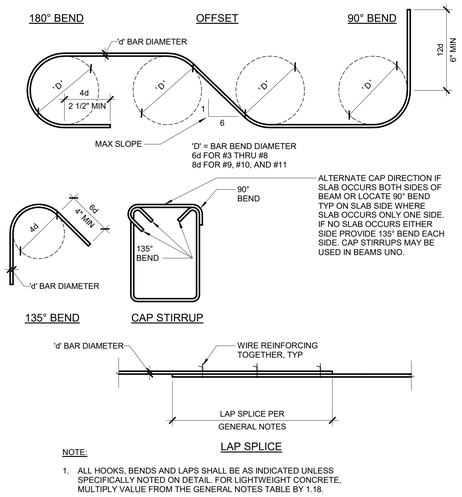
EXISTING ROOF FRAMING PLAN

SCALE

Scale: **1/8" = 1'-0"**

SHEET NUMBER

S200

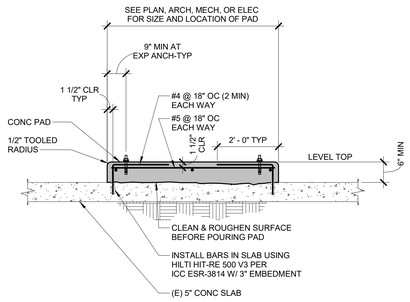


NOTE:

1. ALL HOOKS, BENDS AND LAPS SHALL BE AS INDICATED UNLESS SPECIFICALLY NOTED ON DETAIL. FOR LIGHTWEIGHT CONCRETE, MULTIPLY VALUE FROM THE GENERAL NOTES TABLE BY 1.18.

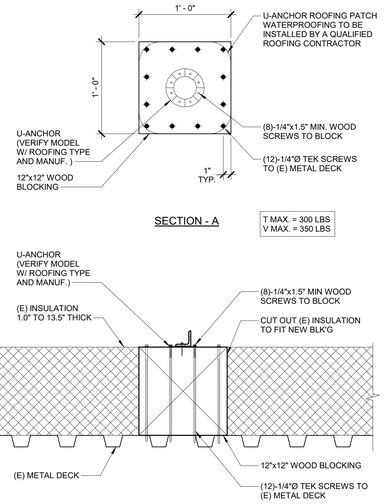
1 TYPICAL REINFORCING DETAILS

3/4" = 1'-0"



2 CONCRETE EQUIPMENT PAD DETAIL

3/4" = 1'-0"

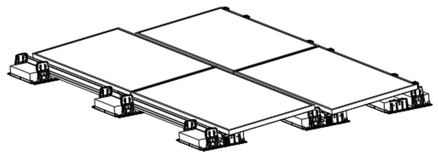


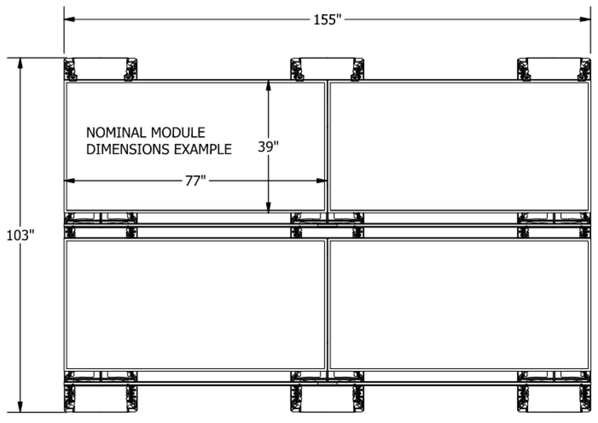
3 ATTACHMENT DETAIL

1 1/2" = 1'-0"

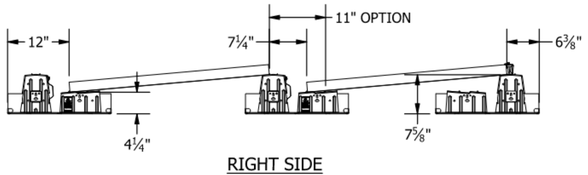
NOTES:

1. ARRAY DIMENSIONS WILL VARY BASED ON MODULE WIDTH & LENGTH.





TOP



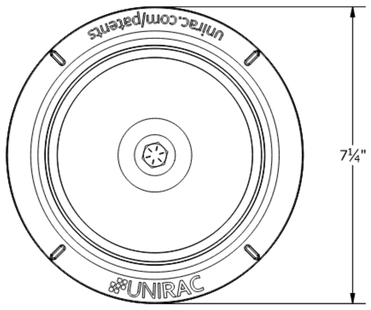
RIGHT SIDE

4 RM5 - 4 MODULE LAYOUT

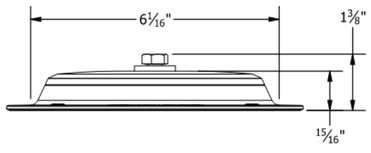
NONE

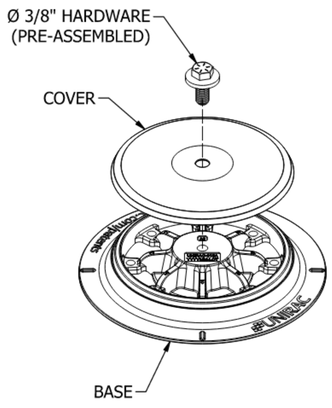
NOTES:

1. ATTACHMENT CAN ACCOMMODATE ROOFING SCREW SIZES #12 - #15. FASTENER SIZE, LENGTH, AND QUANTITY TO BE SELECTED BY STRUCTURAL ENGINEER OF RECORD WHEN DESIGNING FOR THE SPECIFIC PROJECT CONSTRUCTION AND CAPACITY.
2. REFER TO THE UNIRAC INSTALLATION GUIDE FOR PROPER USE OF CHEM LINK M1 AND ONE-PART SEALANTS FOR WATER TIGHT INSTALLATION.



TOP VIEW





PART # TABLE	
P/N	DESCRIPTION
310999	FLASHLOC RM KIT

ULTIMATE TEST LOAD (WITH 8 ROOF FASTENERS)

UPLIFT ULTIMATE CAPACITY	6,670 lbs.
SHEAR ULTIMATE CAPACITY	5,760 lbs.

5 FLASHLOC RM KIT

NONE

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Approved	**Approver**

SHEET TITLE

DETAILS AND SECTIONS

SCALE

Scale: **As indicated**

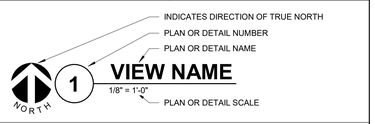
SHEET NUMBER

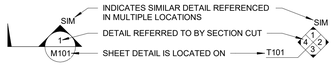
S800

VIEW KEY

NAME / 10' - 0" — LEVEL NAME, HEIGHT ABOVE PROJECT 0' - 0"

1 → INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL





LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)
- NEW
- EXISTING TO BE REMOVED (SHORT DASHED PATTERN)
- NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)
- EXISTING
- EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
- EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIFY SCOPE.

'TAG'-E — TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING

TAG-1 — UNDERLINED TEXT INDICATES ADDITIONAL INFORMATION CAN BE FOUND ELSEWHERE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR

TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE:
ANT	AV-ANT-C	AV ANTENNA UHF ACTIVE DIRECTIONAL (CEILING)	.
MP1	AV-MP1-S	MICROPHONE (SURFACE) TYPE 1	.
SP1 #	AV-SP1-C	AV PERFORMANCE AUDIO SPEAKER (CEILING) TYPE 1	2, 4
WP1	AV-WP1-W	AUDIO/VISUAL FACEPLATE (WALL) - TYPE 1	2
WP2	AV-WP2-W	AUDIO/VISUAL FACEPLATE (WALL) - TYPE 2	2
WP3	AV-WP3-W	AUDIO/VISUAL FACEPLATE (WALL) - TYPE 3	.
CM1	AV-CM1-C	AV CAMERA (CEILING) TYPE 1	.
CM2	AV-CM2-W	AV CAMERA (WALL) TYPE 2	.
CM3	AV-CM3-W	AV CAMERA (WALL) TYPE 3	.
KP	N/A	AUDIO/VIDEO CONTROL KEYPAD (WALL) EXISTING	.
TP2	AV-TP2-S	AUDIO/VIDEO TOUCH PANEL (SURFACE) TYPE 2	.
TP3	AV-TP3-S	AUDIO/VIDEO TOUCH PANEL (SURFACE) TYPE 3	.
TP1	AV-TP1-W	AUDIO/VIDEO TOUCH PANEL (WALL) TYPE 1	.
AV#	AV-AV#-F	ELECTRICAL FLOOR BOX WITH AV	1., 5.
WIDTH X HEIGHT		CABLE TRAY, CHANNEL TRAY, BASKET TRAY	
WIDTH X HEIGHT		LADDER RACK	
DIAMETER C		CONDUIT	
		CONDUIT DOWN	
		CONDUIT UP OR UP/DOWN	
		CONDUIT SLEEVE	
		CONTINUATION	

GENERAL NOTES:

1. ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
2. ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
3. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.
4. REFER TO AV FUNCTIONAL DIAGRAM ON SHEET(S): T401

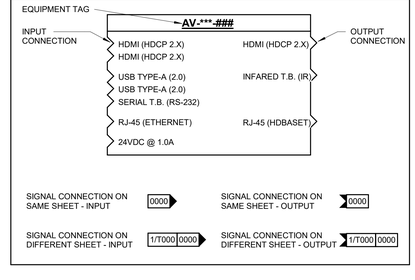
TECHNOLOGY SYMBOL NOTES:

1. SYMBOL SUBSCRIPT INDICATES DEVICE TYPE. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ON T501 FOR ADDITIONAL INFORMATION.
2. REFER TO LINE TYPE KEY FOR NEW, EXISTING TO REMAIN, OR DEMO LINE TYPE.
3. WORK COMPLETED IN A PREVIOUS PHASE.
4. SYMBOL SUBSCRIPT INDICATES SPEAKER ZONE.

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
C	CONDUIT
J-BOX	JUNCTION BOX
OFE	OWNER FURNISHED EQUIPMENT
SIM	SIMILAR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
TR-#	TELECOMMUNICATIONS ROOM

AV FUNCTIONAL DIAGRAM KEY



SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
AUDIO/VIDEO ROUGH-IN, REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3, 4.
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2, 4.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2, 4.
LOW VOLTAGE CABLING FOR AUDIO/VIDEO SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.

SUGGESTED MATRIX OF RESPONSIBILITY NOTES

1. LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR ADDITIONAL INFORMATION.
2. BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE MANUFACTURERS.
3. INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
4. ALL CHANGES TO THE SLEEVES, BACKBOXES, CONDUITS, AND POWER REQUIRED BECAUSE OF THE T.C.'S SELECTION OF AN ALTERNATE ACCEPTABLE MANUFACTURER OR FROM SYSTEM CONFIGURATIONS THAT ARE LEFT TO THE CHOICE OF THE CONTRACTOR SHALL BE INCLUDED IN THE T.C.'S BID. THIS BID SHALL INCLUDE INSTALLATION BY A LICENSED ELECTRICIAN.
5. UNLESS TRADE RULES DICTATE OTHERWISE.
6. FURNISHED AS PART OF THE EQUIPMENT WHEN POSSIBLE, OR FURNISHED TO THE E.C. FOR INSTALLATION IN THE FIELD.
7. INCLUDES ALL CONDUCTORS, GROUND BARS, AND TERMINATIONS FOR THE COMPLETE BONDING SYSTEM REQUIRED BY THE SPECIFICATIONS.
8. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF PANELS AND SWITCHBOARDS SHOWN IN THE TECHNOLOGY BONDING RISER DIAGRAM AND TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.

TELECOM ROOM REFERENCES

TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER
TELE/DATA	1/T401	1/T201	*

TECHNOLOGY GENERAL NOTES:

1. T-401 INDICATES GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION".
2. ALL ROUGH IN AND CABLING SHOWN, INCLUDING BUT NOT LIMITED TO AV CATEGORY CABLING SHALL BE INSTALLED BY THE DESIGN BUILDER. DESIGN BUILDER WILL INSTALL ALL RELATED EQUIPMENT, DEVICES, SCREENS, EQUIPMENT RACK AND ACCESSORIES, ..ETC., AS NEEDED TO COMPLETE THE WORKS AND PROPERLY FUNCTION/OPERATE AS REQUIRED BY THE OWNER.
3. AV SYSTEM IS AN AV OVER IP SYSTEM. ALL AV CABLING, SECURITY AND SETTINGS SHALL COMPLY AND BE COORDINATED WITH OWNERS EXISTING IT COMMUNICATION SYSTEM.
4. REFER TO GENERAL TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

TECHNOLOGY MOUNTING SUBSCRIPT KEY:
- A MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
- H MOUNT ORIENTED HORIZONTALLY
- L MOUNT IN CASEWORK
- M MOUNT IN MODULAR FURNITURE
- S MOUNT IN SURFACE RACEWAY

A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

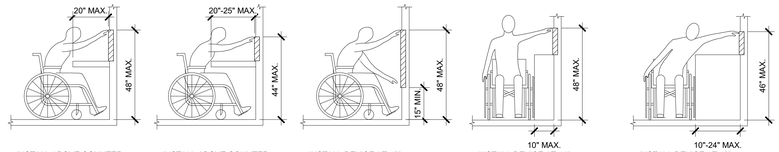
TECHNOLOGY INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC., UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 27 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
8. REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF TELECOMMUNICATIONS WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.

TECHNOLOGY PHASING NOTES

1. REFER TO THE DRAWINGS FOR THE LOCATIONS OF THE NEW AV SYSTEM HEADEND EQUIPMENT AND THE EXISTING AV SYSTEM EQUIPMENT LOCATIONS.

TECHNOLOGY SHEET INDEX



ADA STANDARDS FOR ACCESSIBLE DESIGN

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CAPITAL IMPROVEMENT PROJECT (CIP) - PHASE I

DESIGN BUILD
BROIDGING DOCUMENTS

AGENCY APPROVAL

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Illinois Design Firm Registration #184-000973
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REVISIONS

No.	Date	Revision / Issue

SHEET INFORMATION

Issue	**100% DD BRIDGING DOCUMENT**
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Checked	**JAYSON STICKROD**
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SHEET TITLE

TECHNOLOGY COVERSHEET

SCALE

Scale: **As indicated**

SHEET NUMBER

T000

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GENERAL NOTES:
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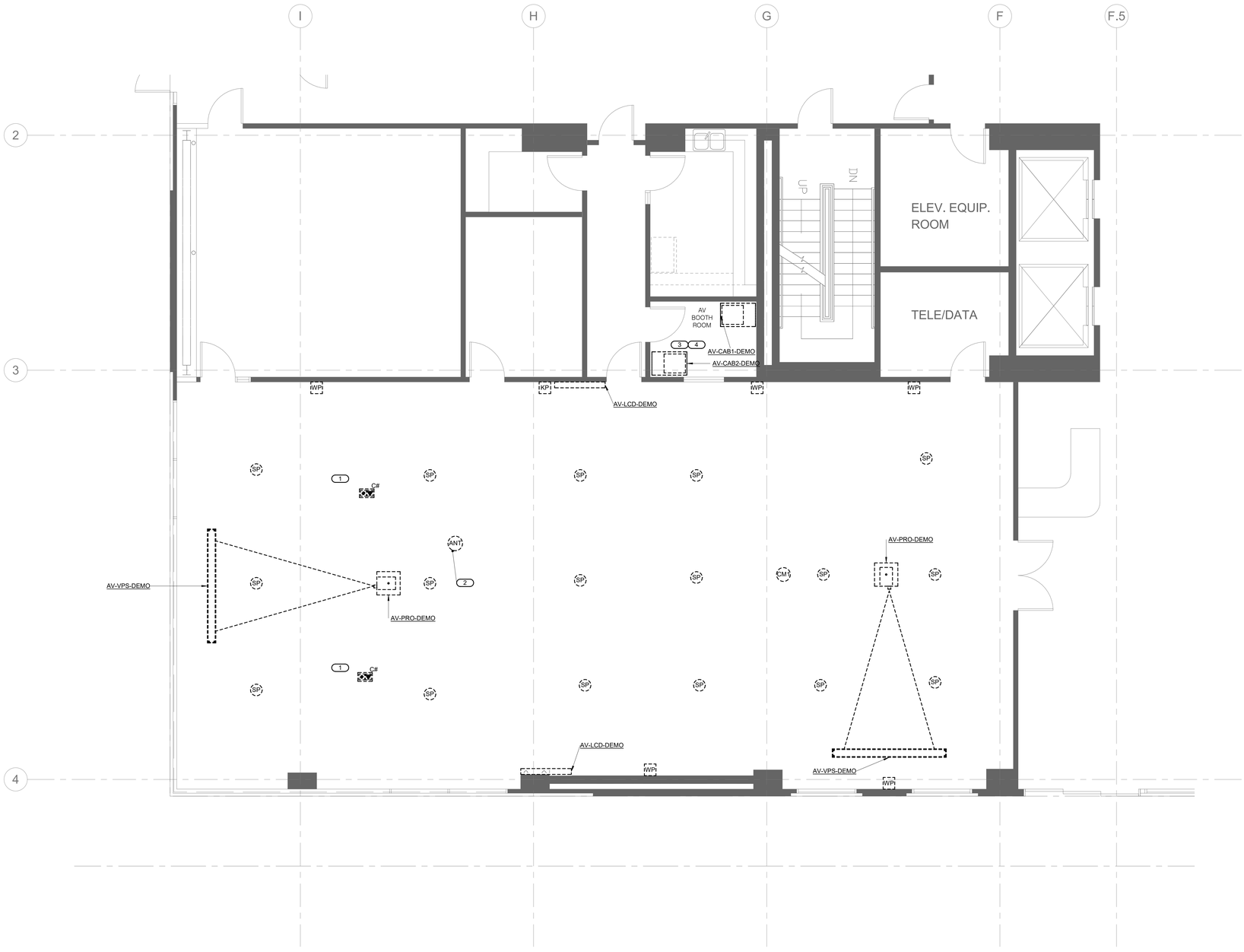
2. INFORMATION SHOWN HEREIN IS AS EXACT AS COULD BE SECURED. BUILDING FLOOR PLAN BACKGROUNDS AND OTHER INFORMATION HAVE BEEN PROVIDED, IN PART, BY OTHERS. AS SUCH, IMEG CORP SHALL NOT BE RESPONSIBLE FOR, NOR GUARANTEES THE ACCURACY OF, INFORMATION PROVIDED BY OTHERS.
3. KEYED NOTES ARE REPRESENTATIVE OF ALL LOCATIONS WHERE SIMILAR CONDITIONS EXIST AND THEREFORE ARE NOT SHOWN AT EVERY INSTANCE. CONSIDER ALL KEYED NOTES "TYPICAL, UNLESS NOTED OTHERWISE"
4. REFER TO OTHER DISCIPLINES' CONSTRUCTION DOCUMENTS (MECHANICAL, ELECTRICAL, SECURITY, LIGHTING CONTROL, SOUND-MASKING, VERTICAL TRANSPORTATION, BUILDING AUTOMATION / MONITORING / CONTROL, ETC.) FOR ADDITIONAL LOCATIONS WHERE DATA CONNECTIONS ARE REQUIRED.
5. EQUIPMENT AND MATERIALS SHOWN ARE GENERALLY DIAGRAMMATIC AND DESCRIBE GENERAL SIZE, ELEVATION AND LAYOUT OF DEVICES.

KEY NOTES:
1. AUDIO CABLES AND CONNECTORS ARE TO BE REMOVED.
2. WIRELESS MICROPHONE ANTENNA ABOVE CEILING ARE TO BE REMOVED.
3. CONTRACTOR TO DEMO ALL AV EQUIPMENT, RACKS, CABLES, AND TABLE.
4. CONTRATOR TO REMOVE UNUSED CONDUITS, SEAL AND FINISH FLOOR AND WALL.



1 FIRST FLOOR DEMOLITION - TECHNOLOGY
1/4" = 1'-0"

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Approved	**JAYSON STICKROD**

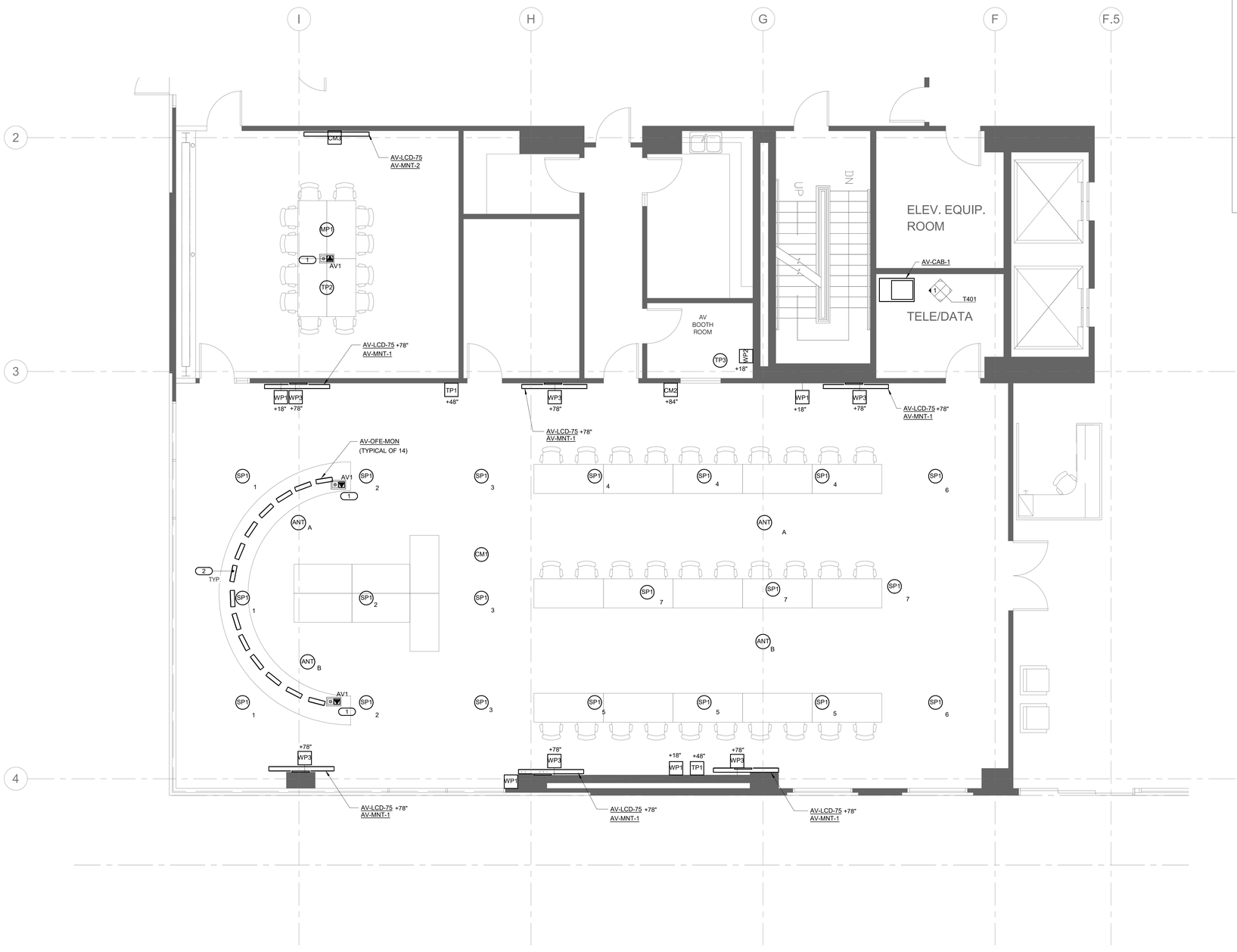
SHEET TITLE
FIRST FLOOR DEMOLITION - TECHNOLOGY

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

SHEET NUMBER
T101

GENERAL NOTES:
1. REFER TO TECHNOLOGY COVER SHEET FOR SYMBOLS, ABBREVIATIONS, NOTES, AND ADDITIONAL GENERAL INFORMATION.
2. INFORMATION SHOWN HEREIN IS AS EXACT AS COULD BE SECURED. BUILDING FLOOR PLAN BACKGROUNDS AND OTHER INFORMATION HAVE BEEN PROVIDED, IN PART, BY OTHERS. AS SUCH, IMEG CORP SHALL NOT BE RESPONSIBLE FOR, NOR GUARANTEES THE ACCURACY OF, INFORMATION PROVIDED BY OTHERS.
3. KEYED NOTES ARE REPRESENTATIVE OF ALL LOCATIONS WHERE SIMILAR CONDITIONS EXIST AND THEREFORE ARE NOT SHOWN AT EVERY INSTANCE. CONSIDER ALL KEYED NOTES "TYPICAL, UNLESS NOTED OTHERWISE"
4. REFER TO OTHER DISCIPLINES' CONSTRUCTION DOCUMENTS (MECHANICAL, ELECTRICAL, SECURITY, LIGHTING CONTROL, SOUND-MASKING, VERTICAL TRANSPORTATION, BUILDING AUTOMATION / MONITORING / CONTROL, ETC.) FOR ADDITIONAL LOCATIONS WHERE DATA CONNECTIONS ARE REQUIRED.
5. EQUIPMENT AND MATERIALS SHOWN ARE GENERALLY DIAGRAMMATIC AND DESCRIBE GENERAL SIZE, ELEVATION AND LAYOUT OF DEVICES.

KEY NOTES:
1. EXISTING FLOOR BOX AND CONDUIT.
2. COORDINATE INSTALLATION AND CABLE PATHS OF MONITOR WITH OWNER AND ARCHITECT.



1 FIRST FLOOR - TECHNOLOGY

1/4" = 1'-0"

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SHEET TITLE

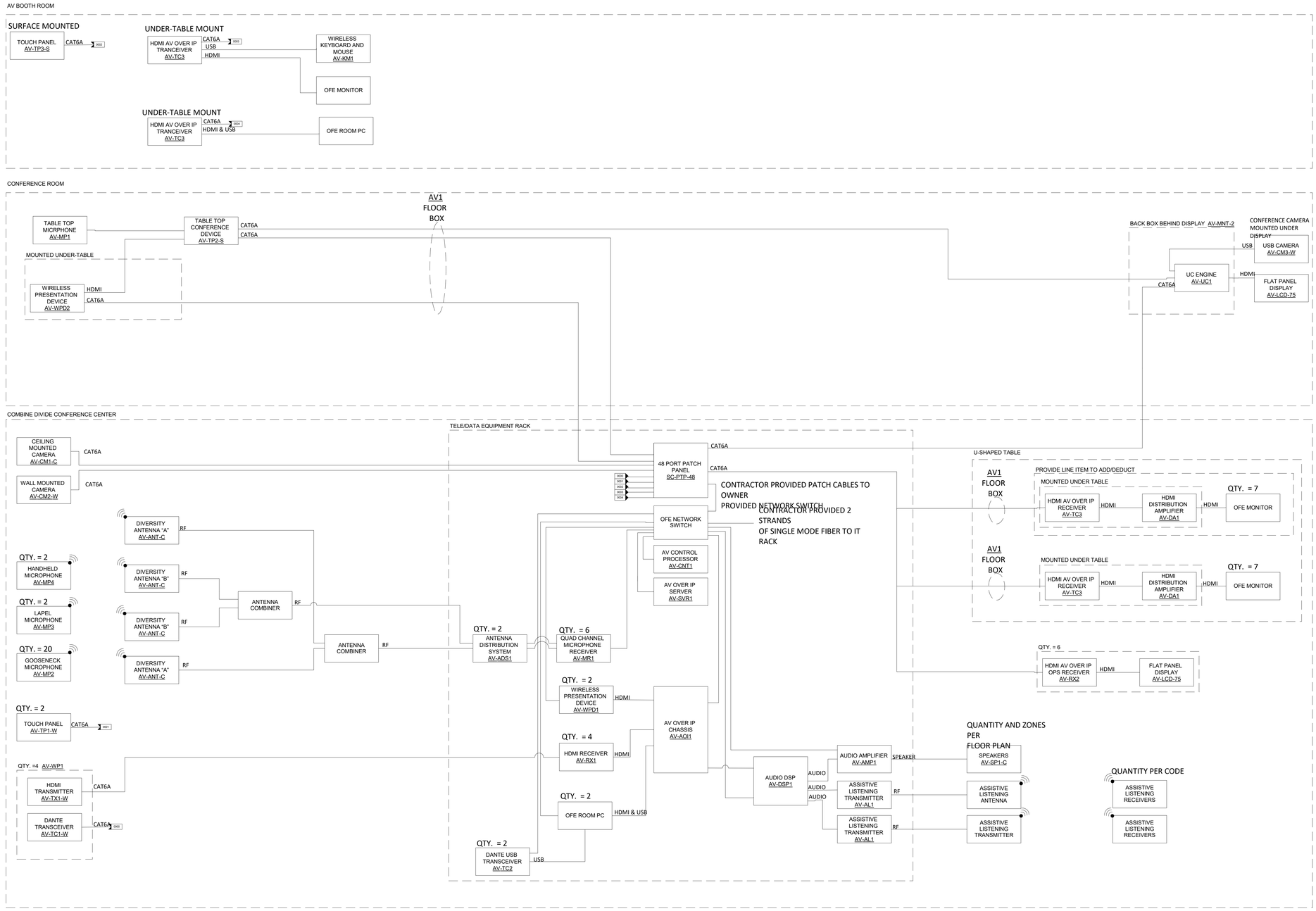
FIRST FLOOR - TECHNOLOGY

SCALE

Scale: **1/4" = 1'-0"**

SHEET NUMBER

T201



1 AV FUNCTIONAL DIAGRAM

NO SCALE

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SHEET TITLE

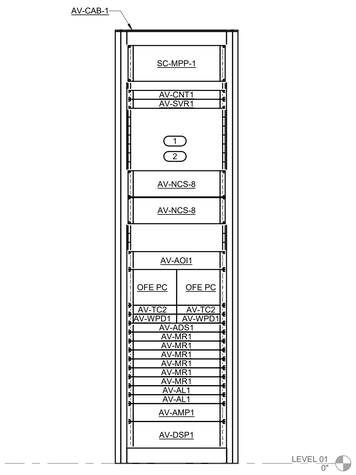
TECHNOLOGY AV FUNCTIONAL DIAGRAMS

SCALE

Scale: **12" = 1'-0"**

SHEET NUMBER

T301



NOTES:
1. CONTRACTOR SHALL PLACE ALL EQUIPMENT IN ITS DESIGNATED RACK AS DEFINED BY THIS LAYOUT. ALL EQUIPMENT IS SIZED (RACK UNITS) ACCORDING TO THE BASIS OF DESIGN. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
2. REFER TO T301 FOR CONNECTIVITY RISER DIAGRAM.

KEYNOTES:
1. SPACE RESERVED FOR OWNER FURNISHED EQUIPMENT.
2. COORDINATE NETWORK SWITCH PATCHING WITH OWNER

1 AV RACK ELEVATION
NO SCALE

TECHNOLOGY EQUIPMENT SCHEDULE

THE EQUIPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY WORKING SYSTEM.

CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE DRAWINGS AND SPECIFICATIONS. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN. "STANDARD COLOR" INDICATES FACTORY FINISH AVAILABLE AT NO ADDITIONAL CHARGE.

EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	EQUIPMENT LIST MANUFACTURER AND MODEL
AV-ADS1	ANTENNA DISTRIBUTION SYSTEM	SHURE UA844+ OR APPROVED EQUAL
AV-AL1	ADA COMPLIANT ASSISTIVE LISTENING SYSTEM. RF 216 MHz. CONTRACTOR TO SUPPLY ANTENNA, TRANSMITTERS, RECEIVERS, AND CHARGING TRAYS.	LISTEN TECHNOLOGIES RF216 OR APPROVED EQUAL
AV-AMP1	EIGHT-CHANNEL, 300W @ 70V POWER AMPLIFIER WITH DANTE/ AES67 NETWORKED AUDIO.	CROWN DCi 8|300DA OR APPROVED EQUAL
AV-AMP2	ONE CHANNEL, 100 WATT @ 70V POWER AMPLIFIER WITH DANTE	EXTRON NETPA 1001-70V AT OR APPROVED EQUAL
AV-ANT-C	CEILING MOUNTED WIDE BAND WIRLESS MICROPHONE ANTENNA. PROVIDE 1 GANG BOX AT MOUNTING LOCATION AND 1" CONDUIT STUBBED UP TO ACCESSIBLE CEILING.	APPROVED EQUAL
AV-AOI1	AV OVER IP CARD CHASSIS. PROVIDE APPROPRIATE NUMBER OF ENCODER/DECODER CARDS.	CRESTRON DMF-CI-8, DM-NVX-351C OR APPROVED EQUAL
AV-CAB-1	FULL SIZED 44 RU SWING OUT AV EQUIPMENT RACK. PROVIDE (2) 1-1/2" CONDUITS STUBBED UP TO ACCESSIBLE CEILING.	MIDDLE ATLANTIC WR-44-32 OR APPROVED EQUAL
AV-CM1-C	WIDE ANGLE CEILING MOUNTED 4K CAMERA WITH NDI. 180 DEGREE FIELD OF VIEW. IP CONTROLED. POWER OVER ETHERNET.	HUDDLECAM HC-EPTZ-NDI OR APPROVED EQUAL
AV-CM2-W	WALL MOUNTED PTZ CAMERA WITH NDI. ZONE AND PEOPLE TRACKING. POE+	AVER TR311HN OR APPROVED EQUAL
AV-CM3-W	COMPACT USB CAMERA. WIDE ANGLE. AUTOFRAMING. USB POWERED	CRESTRON CCS-CAM-USB-F-400 OR APPROVED EQUAL
AV-CNT1	AV CONTROL PROCESSOR OVER NETWORK.	CRESTRON CP4N OR APPROVED EQUAL
AV-DA1	HDMI DISTIRBUTION AMPLIFIER. 8 HDMI OUTPUTS. 4K RESOLUTION.	CRESTRON HD-DA8-4KZ-E OR APPROVED EQUAL
AV-DSP1	AUDIO DSP CONFIGURABLE CARD BASED CHASSIS. DANTE CARD. ETHERNET AND SERIAL CONTROL.	BIAMP SERVER IO, DAN-1 OR APPROVED EQUAL
AV-KM1	BLUETOOTH KEYBOARD AND MOUSE COMBO.	LOGITECH MK850 OR APPROVED EQUAL
AV-LCD-75	75" DIAGONAL 4K LCD DISPLAY. OPS SLOT.	PLANAR UR7551-MX OR APPROVED EQUAL
AV-MNT-1	LARGE FLAT PANEL SWING ARM WALL DISPLAY MOUNT.	CHIEF PNRUB OR APPROVED EQUAL
AV-MNT-2	LARGE FIXED FLAT PANEL WALL DISPLAY MOUNT AND BACK BOX.	CHIEF LSM1U, PAC526 OR APPROVED EQUAL
AV-MP1-S	EXTENSION MICROPHONE FOR CRESTRON FLEX TABLETOP CONFERENCE SYSTEM.	CRESTRON CCS-UCA-MIC OR APPROVED EQUAL
AV-MP2	WIRELESS GOOSECK BASE AND MICROPHONE.	SHURE ULXD8 OR APPROVED EQUAL
AV-MP3	WIRELESS LAPEL MICROPHONE AND TRANSMITTER PACK.	SHURE ULXD1 OR APPROVED EQUAL
AV-MP4	WIRELESS HANDHELD MICROPHONE.	SHURE ULXD2 OR APPROVED EQUAL
AV-MR1	8 CHANNEL WIRLESS MICROPHONE RECEIVER WITH DANTE.	SHURE ULXD4Q OR APPROVED EQUAL
AV-NCS-8	8 BATTERY CHANRGING STATION FOR WIRLESS MICROPHONE BATTERIES	SHURE SBC800 OR APPROVED EQUAL
AV-OFE-MON	OWNER FURNISHED MONITOR.	COORDINATE WITH OWNER.
AV-RX1	DM 4K HDR RECEIVER.	CRESTRON DM-RMC-4KZ-100-C OR APPROVED EQUAL
AV-RX2	AV OVER IP OPS RECIEVER CARD. 4K60 4:4:4. HDR NETWORK AV OPS DECODER. USB 2.0 ROUTING. CEC.	CRESTRON DM-NVX-D80 OR APPROVED EQUAL
AV-SP1-C	CEILING RECESSED CONFERENCE SPEAKER. 70V.	JBL CONTROL 26CT OR APPROVED EQUAL
AV-SVR1	AV OVER IP SERVER FOR UP TO 80 DEVICES.	CRESTRON NVX DIRECTOR OR APPROVED EQUAL
AV-TC1	DANTE NETWORK AUDIO WALLPLATE. PROVIDE 2 GANG WALL PLATE WITH 1" CONDUIT STUBBED UP TO ACCESSIBLE CEILING.	ATTEROTECH UND6IO OR APPROVED EQUAL
AV-TC2	DANTE TO USB 2X2 TRANCEIVER.	AUDINATE AVIO USB OR APPROVED EQUAL
AV-TC3	AV OVER IP RECIEVER. 4K60 4:4:4. HDR NETWORK AV OPS DECODER. USB 2.0 ROUTING. CEC.	CRESTRON DM-NVX-360 OR APPROVED EQUAL
AV-TP1-W	7" WALL MOUNTED TOUCH PANEL. POE PROVIDE 2 GANG BOX WITH 1" CONDUIT STUBBED UP TO ACCESSIBLE CEILING.	CRESTRON TSW-770 OR APPROVED EQUAL
AV-TP2-S	TABLETOP CONFERENCE SYSTEM WITH INTEGRATED MICROPHONE AND SPEAKERS. BYOD AND MICROSOFT TEAMS CAPABLE.	CRESTRON UC-MX50-T OR APPROVED EQUAL
AV-TP3-S	8.7" WIRELESS TOUCH SCREEN WITH GATEWAY.	CRESTRON TST-902, CEN-GWEXER OR APPROVED EQUAL
AV-TX1	DM 4K HDR TRANSMITTER. POE. PROVIDE 1 GANG BOX WITH 1" CONDUIT STUBBED UP TO ACCESSIBLE CEILING.	CRESTRON DM-TX-4KZ-100-C-1G-B-T OR APPROVED EQUAL
AV-UC1	UC ENGINE FOR MICROSOFT TEAMS.	CRESTRON UC-C160-T OR APPROVED EQUAL
AV-WP1-W	SEE AV-TX1-W AND AV-TC1	
AV-WP2-W	3 GANG PASS THROUGH WALL BOX WITH BRUSH GROMMET WALL PLATE. PROVIDE (2) 3/4" CONDUITS STUBBED UP TO ACCESSIBLE CEILING.	
AV-WP3-W	1 GANG PASS THROUGH WALL BOX WITH BRUSH GROMMET WALL PLATE. PROVIDE (1) 3/4" CONDUITS STUBBED UP TO ACCESSIBLE CEILING.	CABLE ORGANIZER DCE-45-0001
AV-WPD1	WIRELESS PRESENTATION DEVICE. POE.	MERSIVE SOLSTICE POD OR APPROVED EQUAL
AV-WPD2	WIRELESS PRESENTATION DEVICE. POE.	CRESTRON AM200 OR APPROVED EQUAL
SC-MPP-1	48-PORT MODULAR PATCH PANEL. INCLUDES PROVISIONS TO INSERT UP TO 48 MODULAR JACKS IN ANY CONFIGURATION WITH PORT IDENTIFICATION AND LABELING, MOUNTS DIRECTLY TO EIA/TIA STANDARD 19" RELAY RACK. PROVIDED WITH COLOR CODING AND LABEL HOLDER KITS. PROVIDE DATA JACKS FOR ALL UNUSED PORTS FOR FUTURE. REQUIRES (1) 1.75" RACK UNITS OF SPACE.	PANDUIT PANEL: CPP48HDWBLY CAT 6A: CJ6X88TG SERIES OR APPROVED EQUAL

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Approved	**JAYSON STICKROD**

SHEET TITLE

TECHNOLOGY DETAILS/SCHEDULES

SCALE

Scale: **1" = 1'-0"**

SHEET NUMBER

T401

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