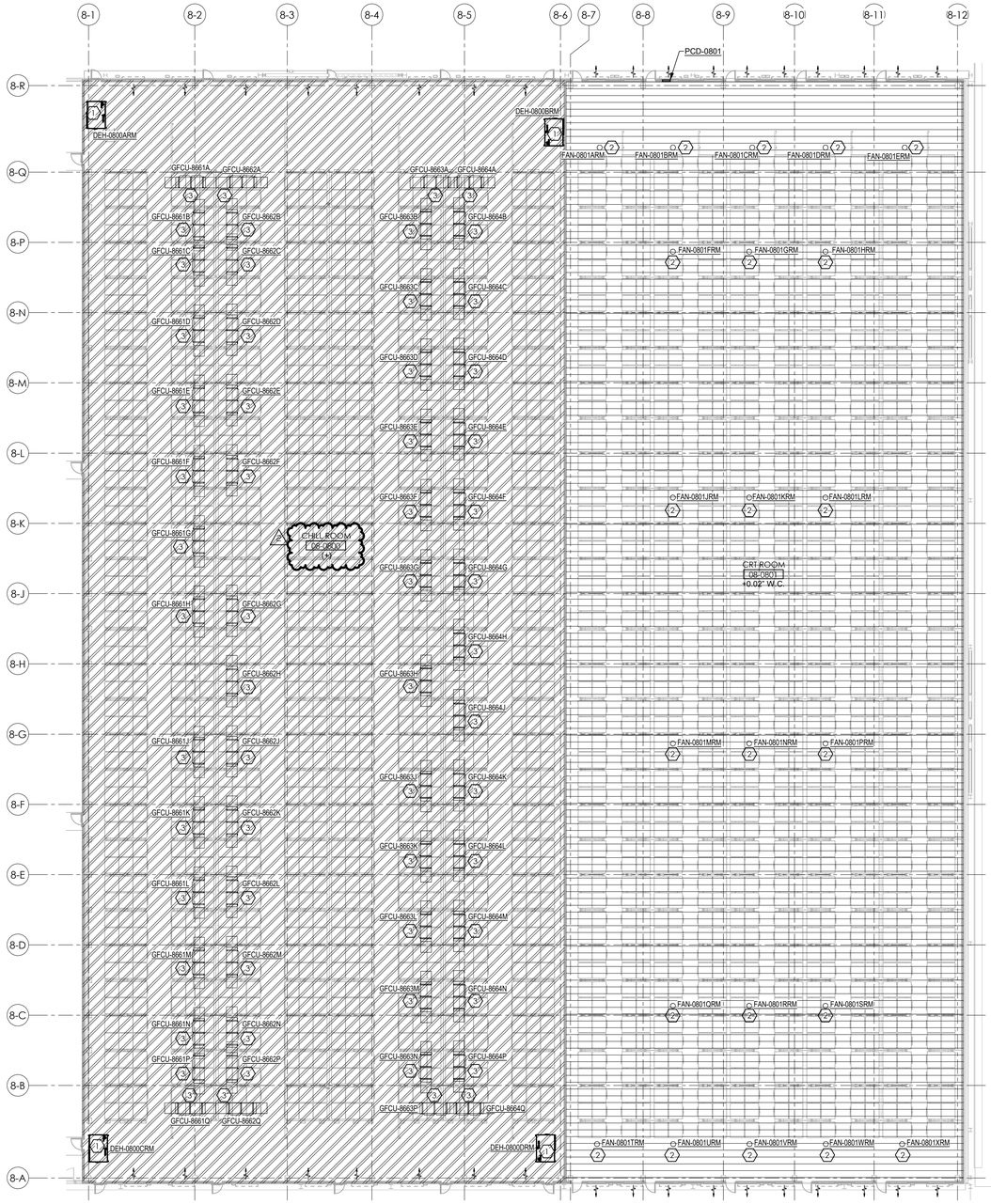


HVAC ZONES

GMP CHILL ROOM
GLYCOL FAN COIL UNITS:
GFCU-8661A THROUGH Q
GFCU-8662A THROUGH Q
GFCU-8663A THROUGH P
GFCU-8664A THROUGH Q
CONTROLLED NOT CLASSIFIED

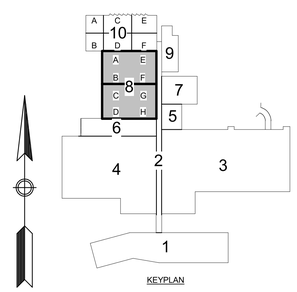
GMP CRT STORAGE
AHU-8901/8902/8903
CONTROLLED NOT CLASSIFIED

KEYED NOTES:

1. DEHUMIDIFIERS - DEH-0800A THROUGH D
2. DESTRATIFICATION FANS - FAN-0801A THROUGH X
3. GLYCOL FAN COIL UNITS -
   GFCU-8661A THROUGH Q
   GFCU-8662A THROUGH Q
   GFCU-8663A THROUGH P
   GFCU-8664A THROUGH Q

NOTE:

(+) DENOTES MANUALLY BALANCED POSITIVE PRESSURIZATION RELATIVE TO ADJACENT AREA. PRESSURIZATION IS NOT MONITORED, BUT DESIGNED TO ROUGHLY 0.02" WC.



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043284 JASON M MAY
10-13-2023

MUSSETT NICHOLAS ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS
B8
ZONING AND CLASSIFICATION

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2	ALL	BULLETIN-05	N/A	13-Oct-2023
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

CONFIDENTIAL INFORMATION

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 1/1
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID	CCI CODE: YELLOW
PROJECT NAME: CONC-300-5983			
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MH-00001001	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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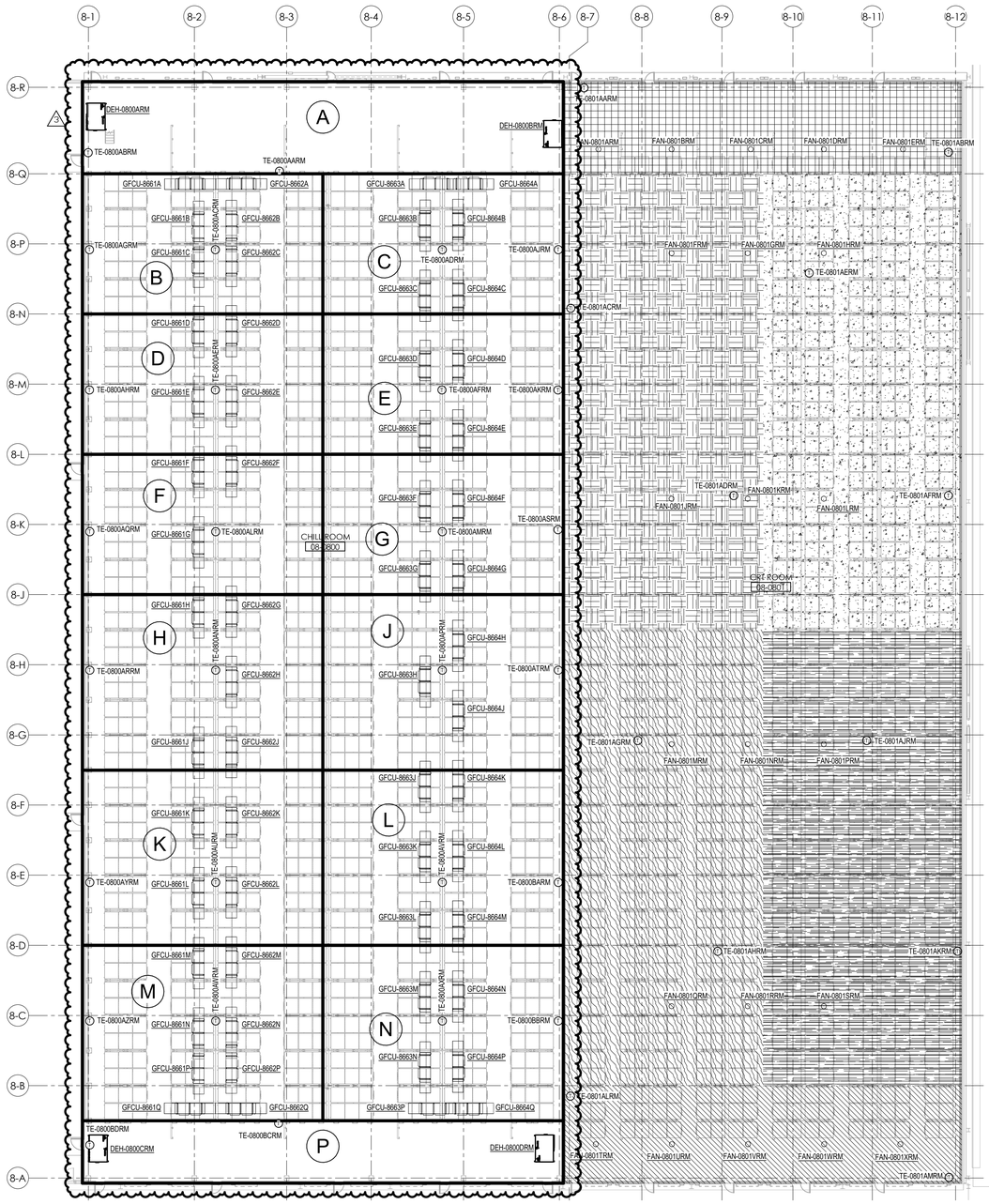
IF YOU ARE USING A PRINTED COPY OF THIS DOCUMENT, IT IS AN UNCONTROLLED PRINT. CONFIRM WITH THE OFFICIAL "ELECTRONIC RECORD" DOCUMENT IN THE GLOBAL ENGINEERING CONTENT MANAGEMENT SYSTEM.



CHILL ROOM 08-0800 GFCU ZONES		
ZONE A:	GFCU-8661A GFCU-8662A GFCU-8663A GFCU-8664A	TE-0800AARM - HIGH LEVEL TE-0800ABRM - LOW LEVEL
ZONE B:	GFCU-8661B GFCU-8661C GFCU-8663B GFCU-8663C	TE-0800ACRM - HIGH LEVEL TE-0800AGRM - LOW LEVEL
ZONE C:	GFCU-8662B GFCU-8662C GFCU-8664B GFCU-8664C	TE-0800ADRM - HIGH LEVEL TE-0800AJRM - LOW LEVEL
ZONE D:	GFCU-8661D GFCU-8661E GFCU-8663D GFCU-8663E	TE-0800AERM - HIGH LEVEL TE-0800AHRM - LOW LEVEL
ZONE E:	GFCU-8662D GFCU-8662E GFCU-8664D GFCU-8664E	TE-0800AFRM - HIGH LEVEL TE-0800AKRM - LOW LEVEL
ZONE F:	GFCU-8661F GFCU-8661G GFCU-8663F GFCU-8663G	TE-0800ALRM - HIGH LEVEL TE-0800AQRM - LOW LEVEL
ZONE G:	GFCU-8662F GFCU-8664F GFCU-8664G	TE-0800AMRM - HIGH LEVEL TE-0800ASRM - LOW LEVEL
ZONE H:	GFCU-8661H GFCU-8661J GFCU-8663H GFCU-8663J	TE-0800ANRM - HIGH LEVEL TE-0800ARRM - LOW LEVEL
ZONE J:	GFCU-8662G GFCU-8662H GFCU-8662J GFCU-8664H GFCU-8664J GFCU-8664E	TE-0800APRM - HIGH LEVEL TE-0800ATRM - LOW LEVEL
ZONE K:	GFCU-8661K GFCU-8661L GFCU-8661M GFCU-8663K GFCU-8663L	TE-0800AURM - HIGH LEVEL TE-0800AYRM - LOW LEVEL
ZONE L:	GFCU-8662K GFCU-8662L GFCU-8662M GFCU-8664L GFCU-8664M	TE-0800AVRM - HIGH LEVEL TE-0800BARM - LOW LEVEL
ZONE M:	GFCU-8661N GFCU-8661P GFCU-8663M GFCU-8663N	TE-0800AWRM - HIGH LEVEL TE-0800AZRM - LOW LEVEL
ZONE N:	GFCU-8662N GFCU-8662P GFCU-8664N GFCU-8664P	TE-0800AXRM - HIGH LEVEL TE-0800BBRM - LOW LEVEL
ZONE P:	GFCU-8661Q GFCU-8662Q GFCU-8663P GFCU-8664Q	TE-0800BCRM - HIGH LEVEL TE-0800BDRM - LOW LEVEL

CRT ROOM 08-0801 THERMAL ZONES		
ZONE 1:	RHC-0801D	TE-0801AARM - HIGH LEVEL TE-0801ABRM - LOW LEVEL
ZONE 2:	RHC-0801A	TE-0801ACRM - HIGH LEVEL TE-0801ADRM - LOW LEVEL
ZONE 3:	RHC-0801E	TE-0801AERM - HIGH LEVEL TE-0801AFRM - LOW LEVEL
ZONE 4:	RHC-0801B	TE-0801AGRM - HIGH LEVEL TE-0801AHRM - LOW LEVEL
ZONE 5:	RHC-0801F	TE-0801AJRM - HIGH LEVEL TE-0801AKRM - LOW LEVEL
ZONE 6:	RHC-0801C	TE-0801ALRM - HIGH LEVEL TE-0801AMRM - LOW LEVEL

GENERAL NOTES:

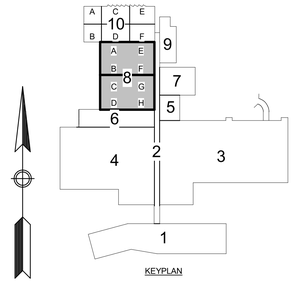
G1 HIGH LEVEL ELEMENTS LOCATED AT ± 65'-0" A.F.F.
G2 LOW LEVEL ELEMENTS LOCATED AT ± 5'-0" A.F.F.
G3 PROVIDE 30'-0" OF CABLE (EXTRA WIRE SPOOLED UP OUTSIDE OF CONDUIT) TO ALLOW FOR FINAL RE-LOCATION OF ELEMENTS.

CHILL ROOM ZONES

- A ZONE A
- B ZONE B
- C ZONE C
- D ZONE D
- E ZONE E
- F ZONE F
- G ZONE G
- H ZONE H
- J ZONE J
- K ZONE K
- L ZONE L
- M ZONE M
- N ZONE N
- P ZONE P

CRT ZONES

- ZONE 1
- ZONE 2
- ZONE 3
- ZONE 4
- ZONE 5
- ZONE 6



KEYPLAN

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049598 JASON M ARP
13 - 2024

MUSSETT NICHOLS ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8 THERMAL ZONING

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
3	ALL	BULLETIN-08	N/A	13-Feb-2024
2	ALL	BULLETIN-05	N/A	13-Oct-2023
1	ALL	BULLETIN-04	N/A	23-Aug-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING CONC008	LEVEL/FLOOR 1/1
SUB DISCIPLINE MH	LOCATION CODE CONC	LOCATION/GRID	CCI CODE YELLOW
CRITICAL QUALITY No	ENTERPRISE GROUP CDAP	DRAWING INTENTION	PROJECT NAME CONC-300-5983
CRITICAL BUSINESS Yes	EQUIPMENT CLASSIFICATION	DRAWING SCALE As indicated	
CRITICAL HSE No	VENDOR	ALTERNATE DOCUMENT ID	MERIDIAN REV
NON-CRITICAL No	ENGINEERING AGENCY DOC ID	DOCUMENT ID CONC008-MH-00001002	

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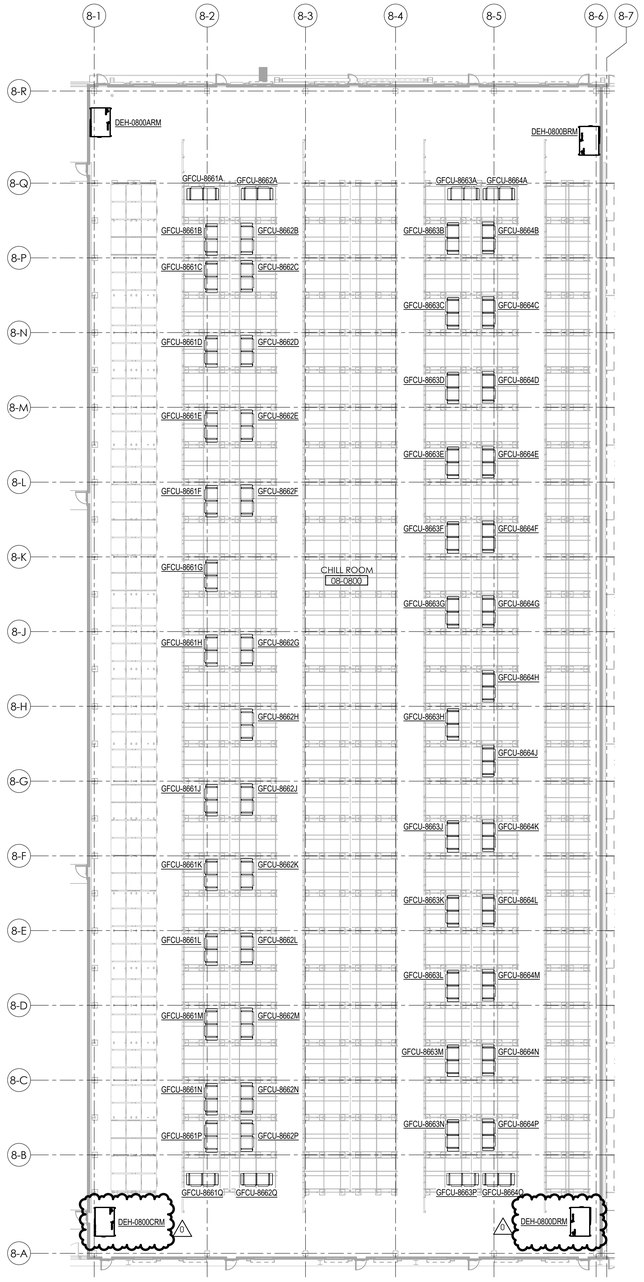
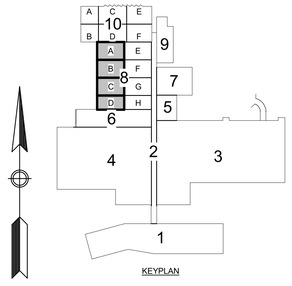


CHILL ROOM 08-0800 GFCU DEFROST CYCLES			
DEFROST CYCLE	STARTING HOUR OF DEFROST CYCLE	DURATION OF DEFROST CYCLE (HOURS)	GLYCOL FAN COIL UNITS
1	1, 9, 17	0:20	GFCU-8661N GFCU-8662E GFCU-8662J GFCU-8663B GFCU-8663P GFCU-8664F GFCU-8664L
2	2, 10, 18	0:20	GFCU-8661C GFCU-8661F GFCU-8661J GFCU-8662P GFCU-8663A GFCU-8664D GFCU-8664H GFCU-8664M
3	3, 11, 19	0:20	GFCU-8661E GFCU-8661H GFCU-8661K GFCU-8661P GFCU-8662A GFCU-8663F GFCU-8663L GFCU-8664B
4	4, 12, 20	0:20	GFCU-8661G GFCU-8661M GFCU-8662D GFCU-8662H GFCU-8663K GFCU-8664A GFCU-8664K GFCU-8664Q
5	5, 13, 21	0:20	GFCU-8661B GFCU-8662C GFCU-8662N GFCU-8663G GFCU-8663M GFCU-8664C GFCU-8664J
6	6, 14, 22	0:20	GFCU-8661A GFCU-8662F GFCU-8662K GFCU-8662Q GFCU-8663D GFCU-8664G GFCU-8664N
7	7, 15, 23	0:20	GFCU-8661D GFCU-8661Q GFCU-8662L GFCU-8663C GFCU-8663H GFCU-8664E GFCU-8664P
8	8, 16, 24	0:20	GFCU-8661L GFCU-8662B GFCU-8662M GFCU-8663E GFCU-8662G GFCU-8663J GFCU-8663N



KEYPLAN

NORTH CAROLINA PROFESSIONAL SEAL 043024 ENGINEER JASON M ARY 3-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8/LEVEL 1 GFCU DEFROST SEQUENCE

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 1/1
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID	CCI CODE: YELLOW
PROJECT NAME: CONC-300-5983			
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MH-00001003	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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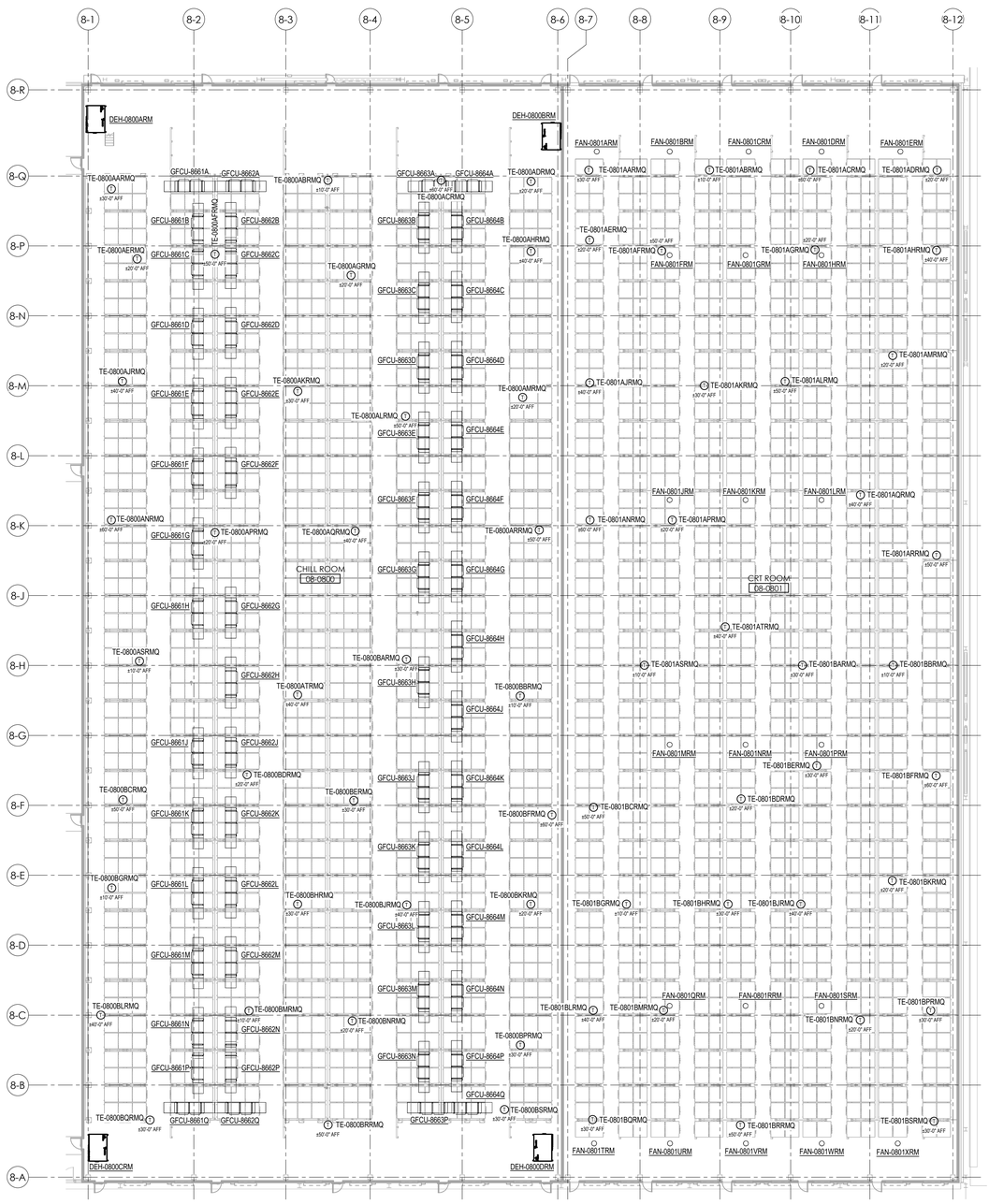
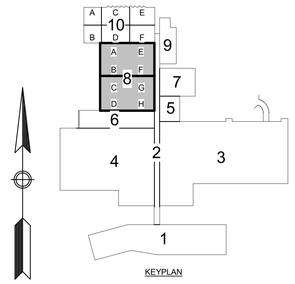
GENERAL NOTES:

G1 DESIGN BUILD CONTRACTOR (DBC) TO INCLUDE MONITORING AS SHOWN. OWNER TO DETERMINE FINAL LOCATION AFTER EACH SPACE IS TEMPERATURE MAPPED. SENSORS TO BE PRELIMINARILY LOCATED WITH INPUT FROM OWNER WITH A MIXTURE OF HIGH AND LOW LOCATIONS EVENLY SPREAD THROUGHOUT SPACE. CFD MODEL WILL ASSIST IN PRELIMINARY LOCATION OF SENSORS WHILE MINIMIZING FINAL LOCATION EFFORT.

G2 PROVIDE 30'-0" OF CABLE (EXTRA WIRE SPOOLED UP OUTSIDE OF CONDUIT) TO ALLOW FOR FINAL RE-LOCATION OF QBMS SENSORS.

G3 REFER TO QBMS MONITORING DIAGRAM FOR MORE INFORMATION ON INSTRUMENTS.





KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049818 JASON M HIGH 4-25-2023

MUSSETT NICHOLAS ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8 QBMS MONITORING

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2	ALL	BULLETIN-04	N/A	23-Aug-2023
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 1/1
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/16" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MH-00001004	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPERS AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION.

G2 COORDINATE DUCTWORK SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

G3 COORDINATE DUCT LOCATIONS WITH LATEST DEMATIC CONVEYOR AND CRANE LOCATIONS.

△0

8-7 8-8 8-9 8-10 8-11 8-12

8-R 8-Q 8-P 8-N

3 CONC008-MH-00003001

48"ø SA 48"ø SA 32"ø SA 26"ø SA 48"ø SA 48"ø SA

64"x80" RA 64"x80" RA 64"x80" RA

32"ø SA UP 26"ø SA UP 48"ø SA UP 30"ø RA UP

K20x16-1300 30"ø RA UP 24"x30" RA 48"ø SA UP 24"x30" RA

32"ø RA

18"x32" RA 14"x48" RA

1 CONC008-MH-00003001

K18x12-760

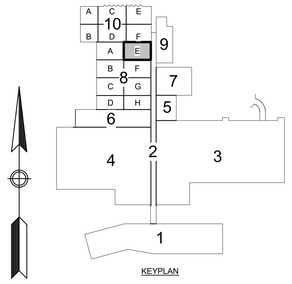
K16x10-360 K18x12-1000 K16x10-360 K18x12-1000

16"ø RA 24"ø RA

2 CONC008-MH-00003001

CRT 08-0801

MATCHLINE CONC008-MH-00001102



KEYPLAN

NORTH CAROLINA PROFESSIONAL SEAL 043006 ENGINEER JASON M ANTONIO 3-3-2023

MUSSETT NICHOLAS ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8/LEVEL 1 FIRST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 1/1
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MH-00001101	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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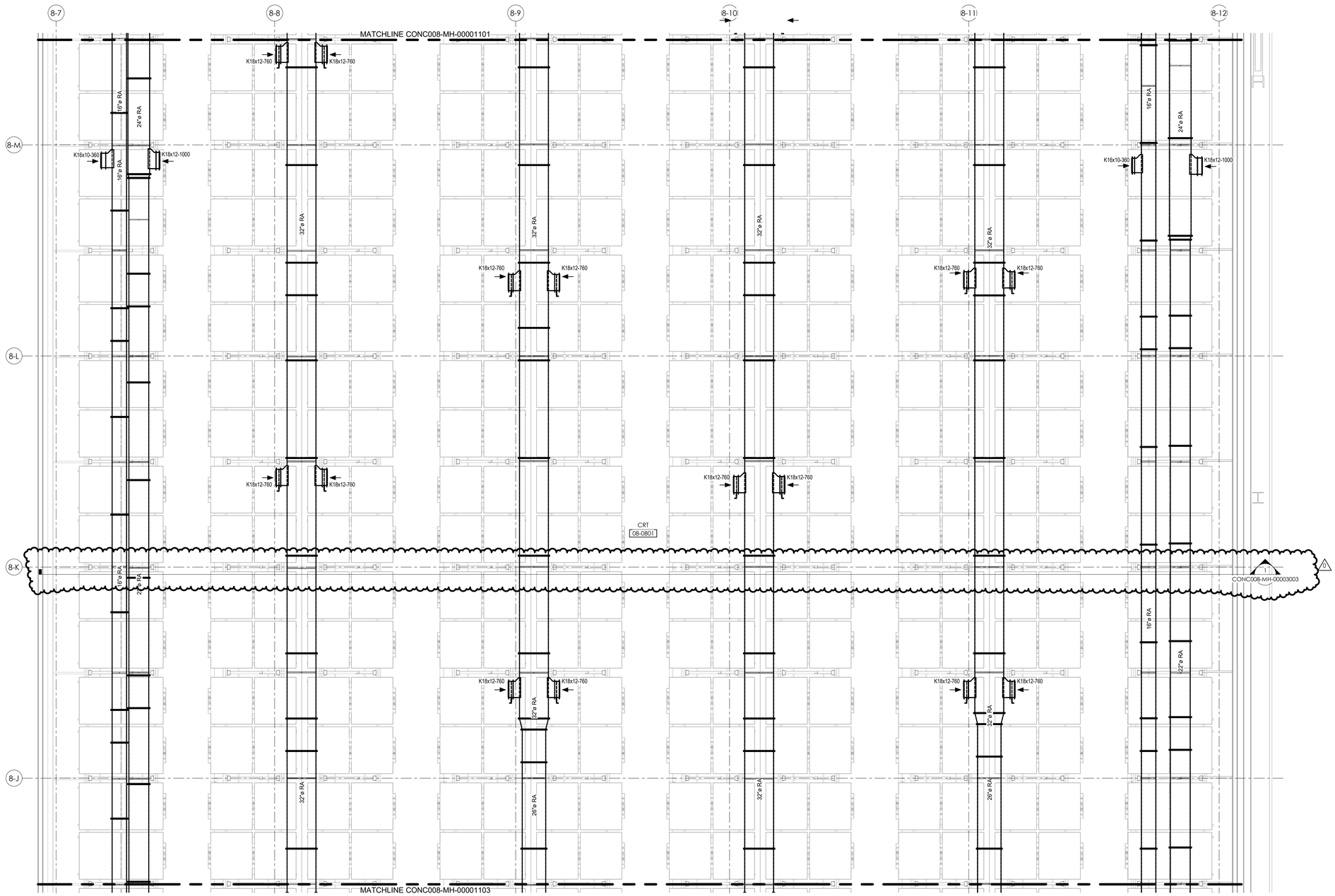
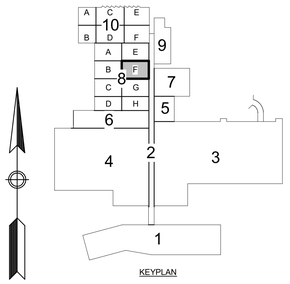


GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPERS AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION.

G2 COORDINATE DUCTWORK SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

G3 COORDINATE DUCT LOCATIONS WITH LATEST DEMATIC CONVEYOR AND CRANE LOCATIONS.



KEYPLAN

SEAL
NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
14-36224
JASON M MERRITT
3-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8/LEVEL 1 FIRST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 1/1
SUB DISCIPLINE: MH	LOCATION CODE: CONC	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MH-00001102	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPERS AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION.

G2 COORDINATE DUCTWORK SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

G3 COORDINATE DUCT LOCATIONS WITH LATEST DEMATIC CONVEYOR AND CRANE LOCATIONS.

△0

8-7 8-8 8-9 8-10 8-11 8-12

8-H 8-G 8-F 8-E

MATCHLINE CONC008-MH-00001102

MATCHLINE CONC008-MH-00001104

K18x12-760 K18x10-360 K18x12-1000

16"ø RA 22"ø RA 26"ø RA 18"ø RA 14"ø RA

△0 CONC008-MH-00003004

CRT 08-0801

KEYPLAN

MUSSETT NICHOLAS ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8/LEVEL 1 FIRST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 1/1
SUB DISCIPLINE: MH	LOCATION CODE: CONC	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MH-00001103	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 043220 JASON MANN
3-3-2023

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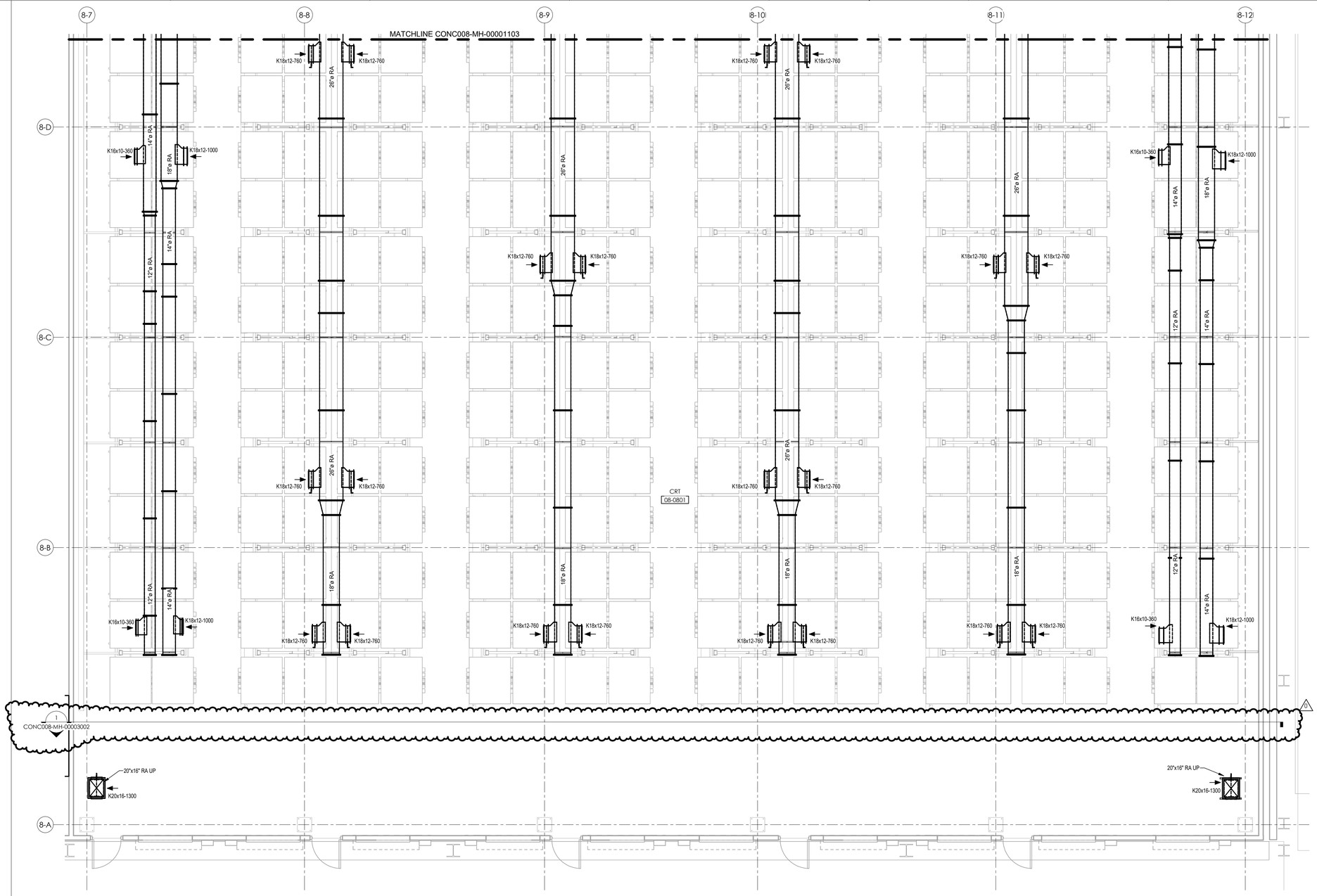
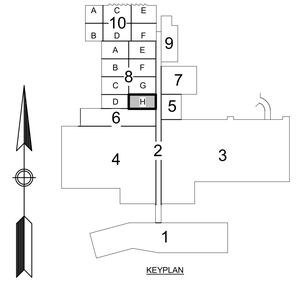


GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPERS AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION.

G2 COORDINATE DUCTWORK SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

G3 COORDINATE DUCT LOCATIONS WITH LATEST DEMATIC CONVEYOR AND CRANE LOCATIONS.



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043024 JASON M. MAY 3-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8/LEVEL 1 FIRST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 1/1
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID	CO CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MH-00001104	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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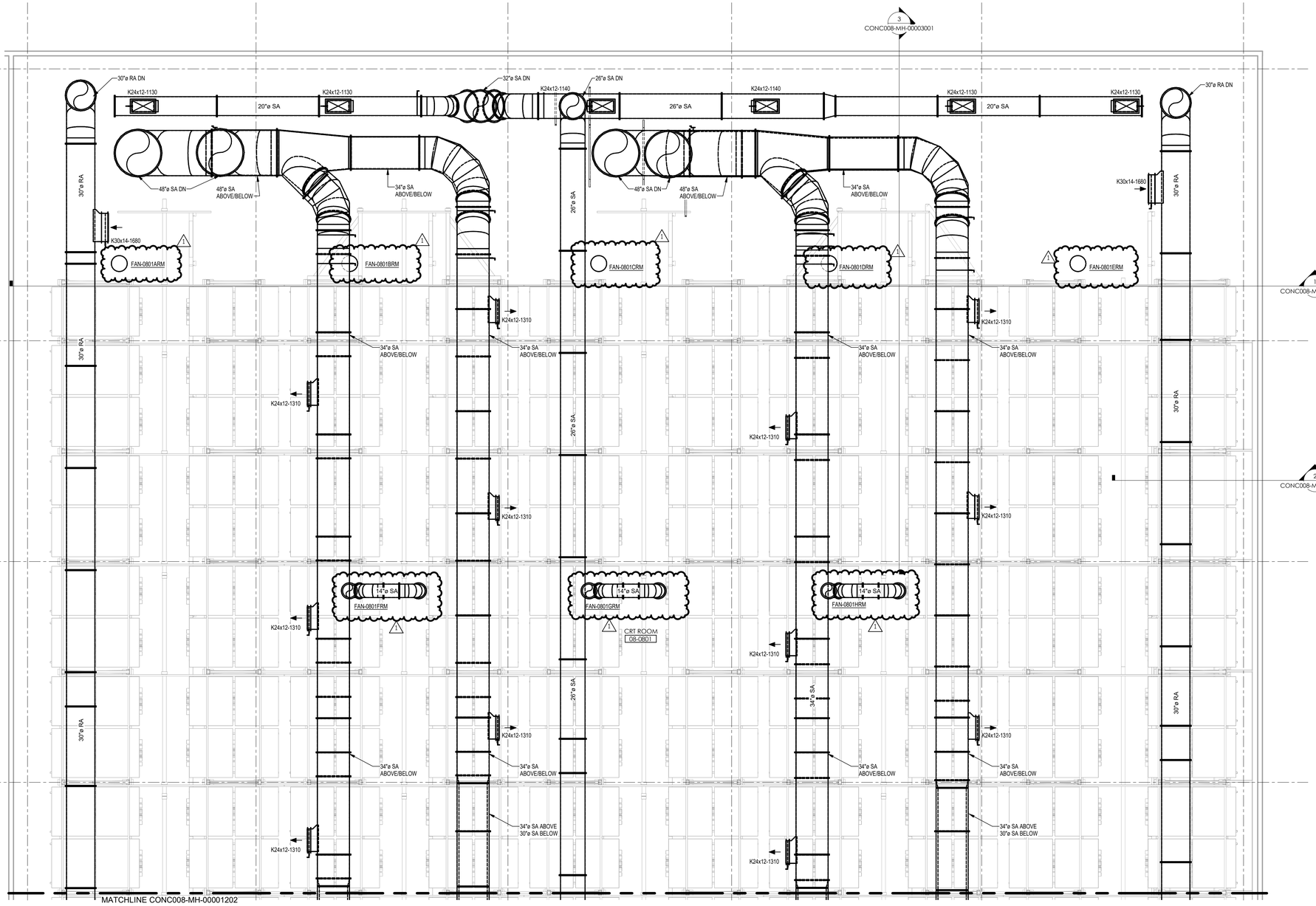
8-7 8-8 8-9 8-10 8-11 8-12

8-R 8-Q 8-P 8-N

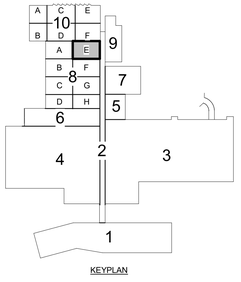


GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPERS AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION.

G2 COORDINATE DUCTWORK SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

G3 COORDINATE DUCT LOCATIONS WITH LATEST DEMATIC CONVEYOR AND CRANE LOCATIONS.



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049618 JASON M MAY

MUSSETT NICHOLAS ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8/LEVEL 12 CATWALK

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

CONFIDENTIAL INFORMATION

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SYSTEM TYPE		EDIFICE/BUILDING CONC008	LEVEL/FLOOR 12/CW
SUB DISCIPLINE MH	LOCATION CODE CONC	CCI CODE YELLOW	PROJECT NAME CONC-300-5983
CRITICAL QUALITY No	ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE 1/4" = 1'-0"
CRITICAL BUSINESS Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No	VENDOR	DOCUMENT ID CONC008-MH-00001201	
NON-CRITICAL No	ENGINEERING AGENCY DOC ID		

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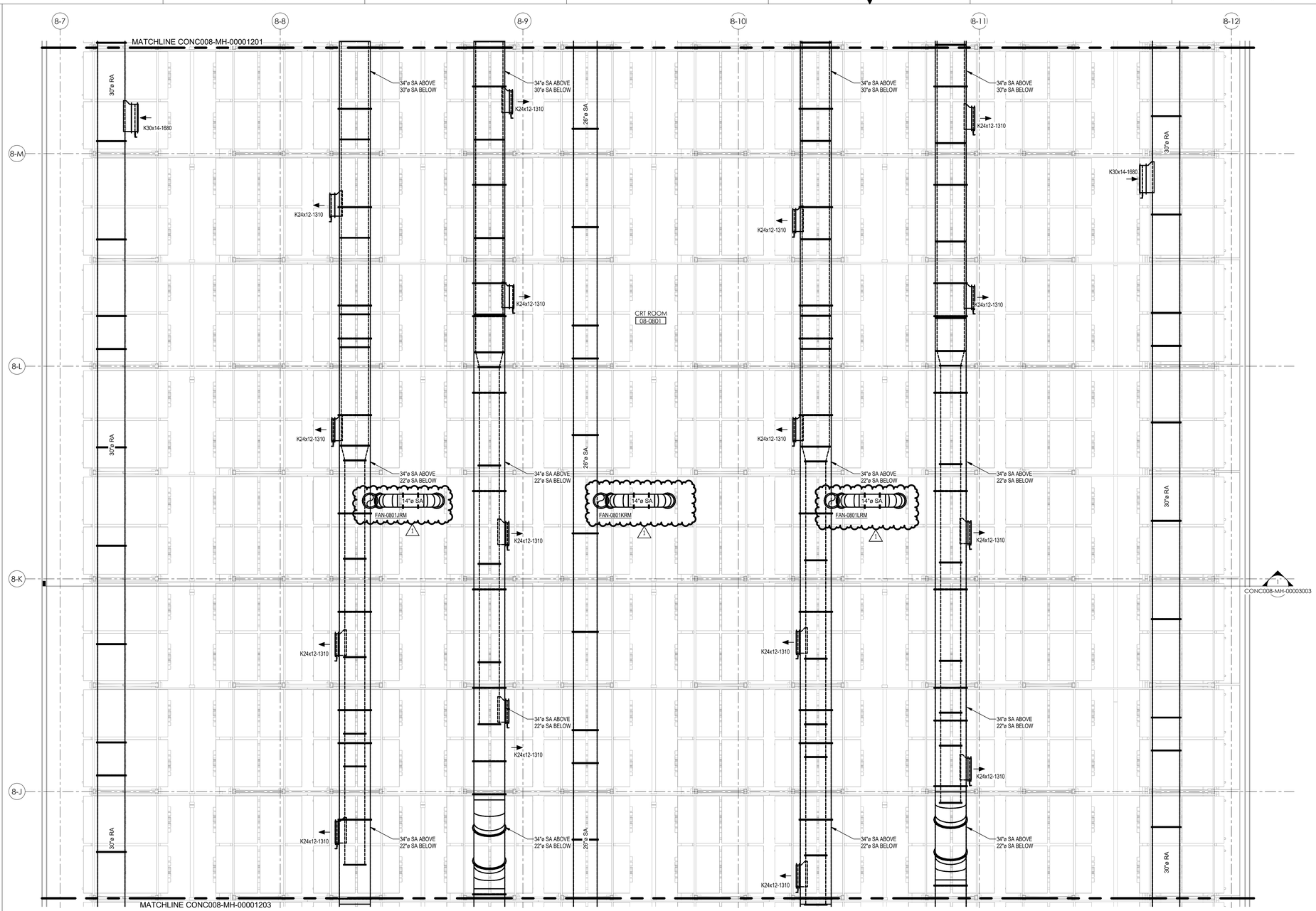

GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPERS AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION.

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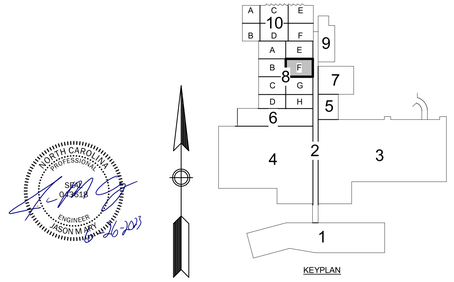

KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049318 JASON M MAY

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8/LEVEL 12 CATWALK

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 12/CW
SUB DISCIPLINE: MH	LOCATION CODE: CONC	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MH-00001202	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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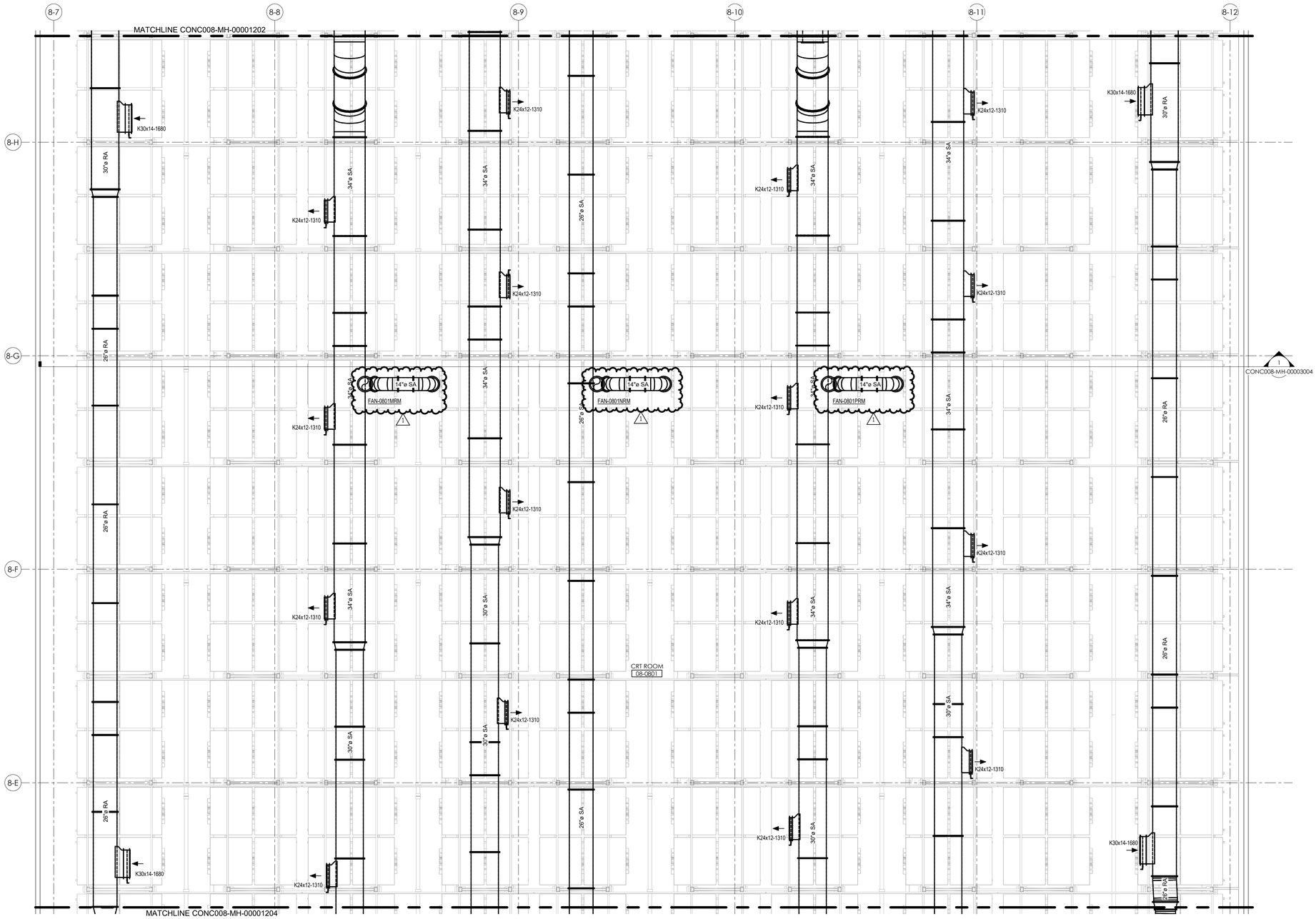

GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPERS AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION.

G2 COORDINATE DUCTWORK SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

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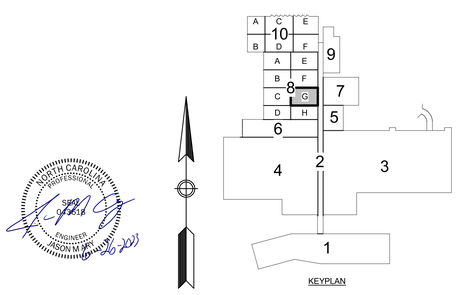

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049618 JASON M. NICHOLAS 06-Jun-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
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Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8/LEVEL 12 CATWALK

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 12/CW
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC008-MH-00001203	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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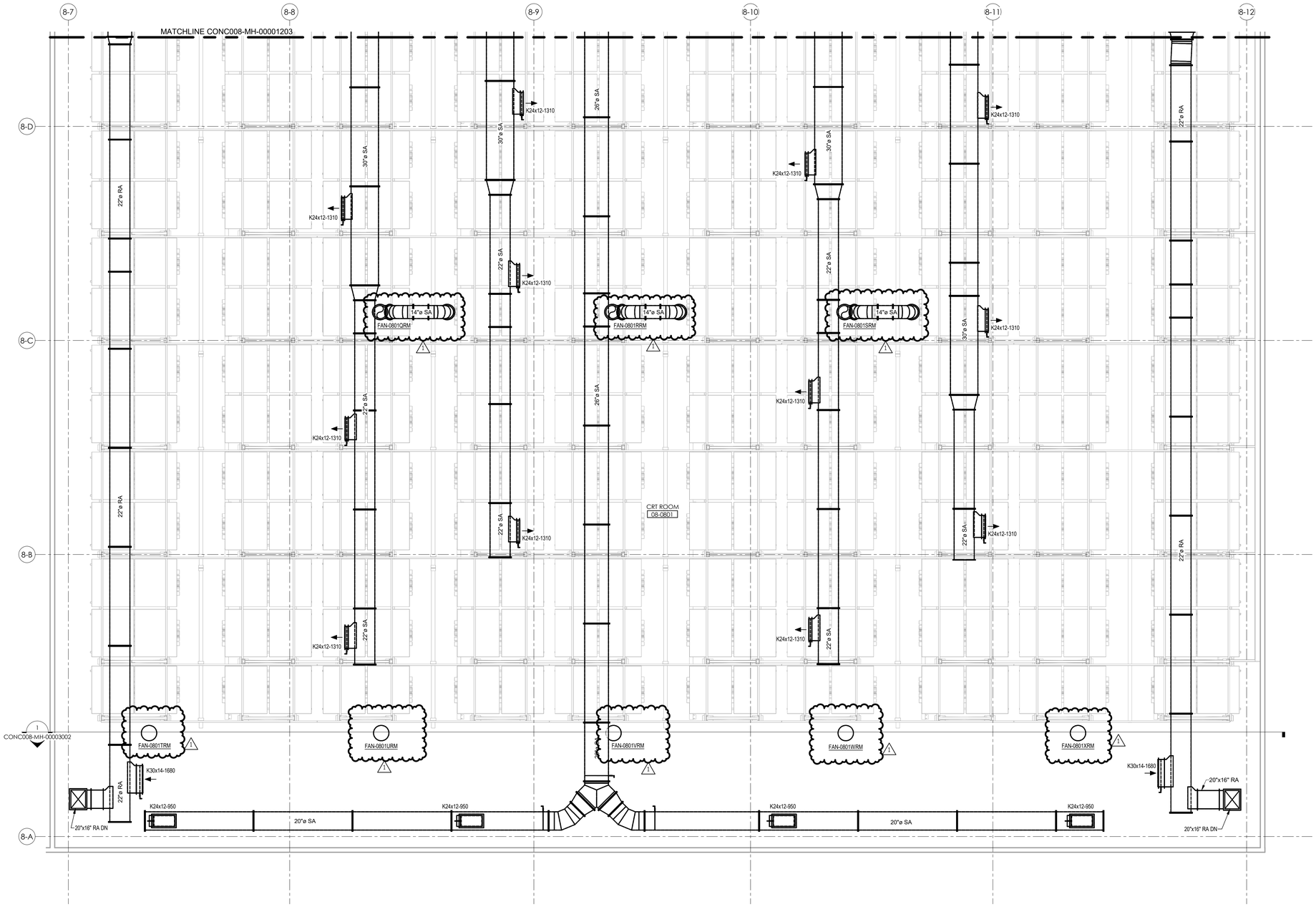

GENERAL NOTES:

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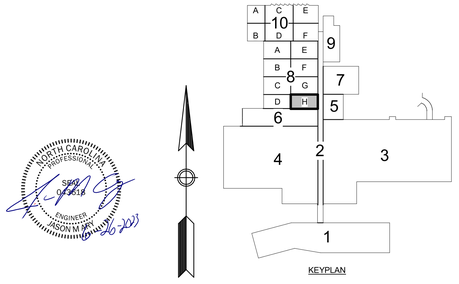
G2 COORDINATE DUCTWORK SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

G3 COORDINATE DUCT LOCATIONS WITH LATEST DEMATIC CONVEYOR AND CRANE LOCATIONS.



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043618 REGISTERED ENGINEER 26 JUNE 2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8/LEVEL 12 CATWALK

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC008	12/CW
SUB DISCIPLINE	LOCATION CODE / LOCATION/GRID	CCI CODE	PROJECT NAME
MH	CONC	YELLOW	CONC-300-5983
CRITICAL QUALITY	ENTERPRISE GROUP	DRAWING INTENTION	DRAWING SCALE
No	CDAP		1/4" = 1'-0"
CRITICAL BUSINESS	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
Yes			
CRITICAL HSE	VENDOR	DOCUMENT ID	
No		CONC008-MH-00001204	
NON-CRITICAL	ENGINEERING AGENCY DOC ID		
No			

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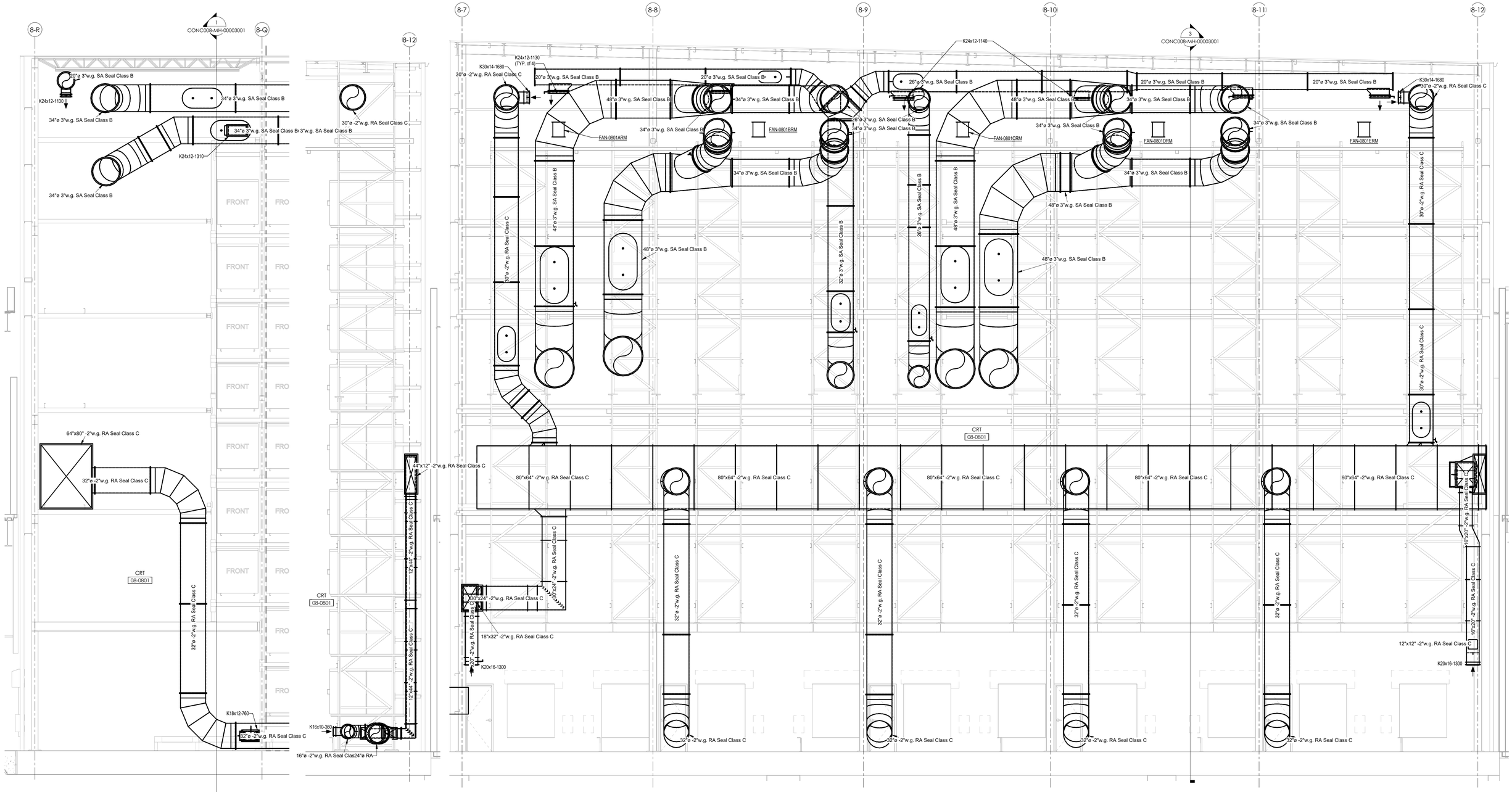

3 SECTION
SCALE: 1/4" = 1'-0"

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

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

SEAL
64306
ENGINEER
JASON M MAY
3-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly
U.S.A.

AIR HANDLING SYSTEMS
B8
SECTIONS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
			PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
			DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
			MERIDIAN REV
CRITICAL HSE: No		VENDOR	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID	DRAWING NO.: CONC008-MH-00003001

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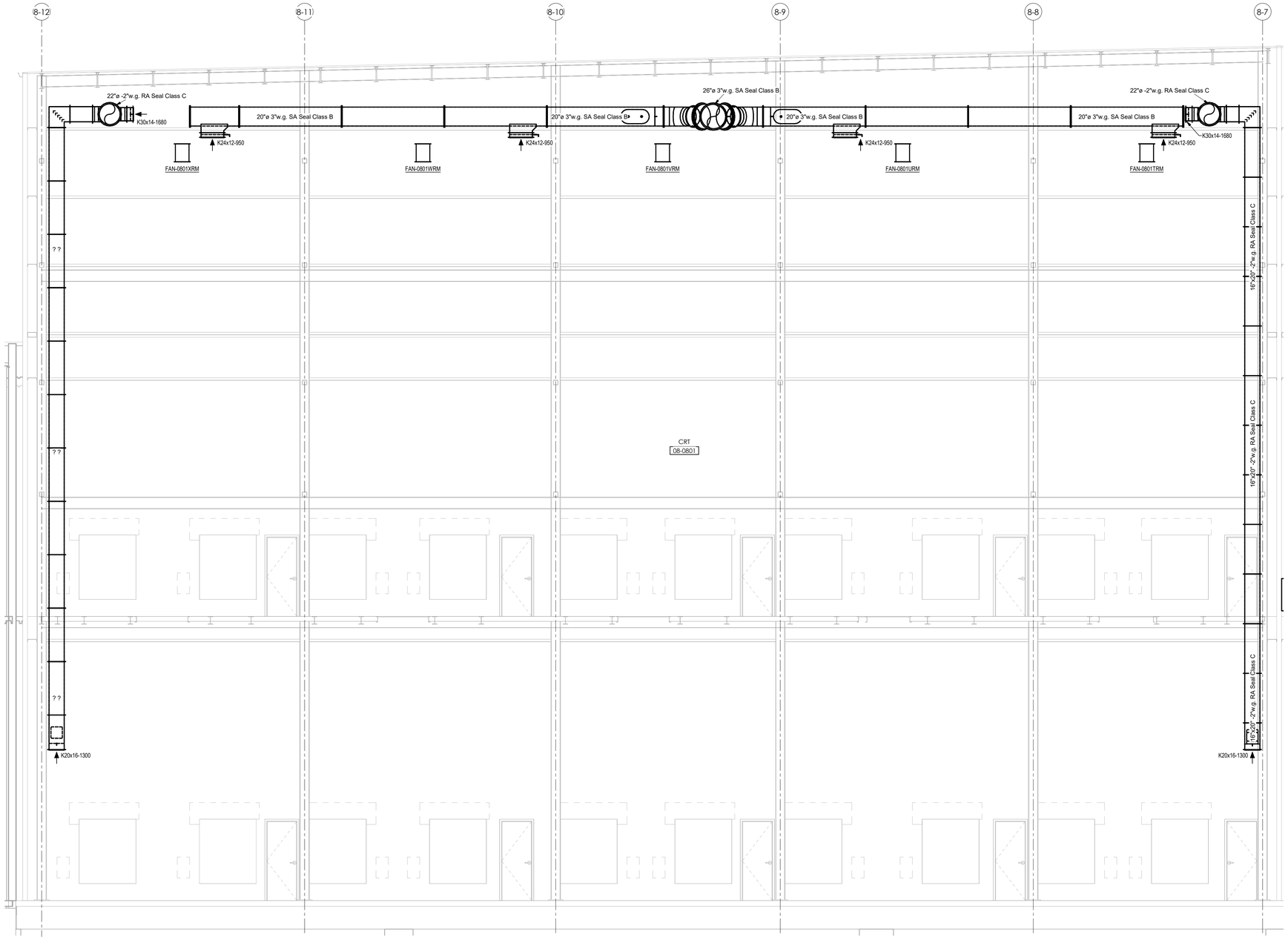

1 SECTION
SCALE: 1/4" = 1'-0"

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
JASON M MRI
043627
3-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8 SECTIONS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC008-MH-00003002
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID	

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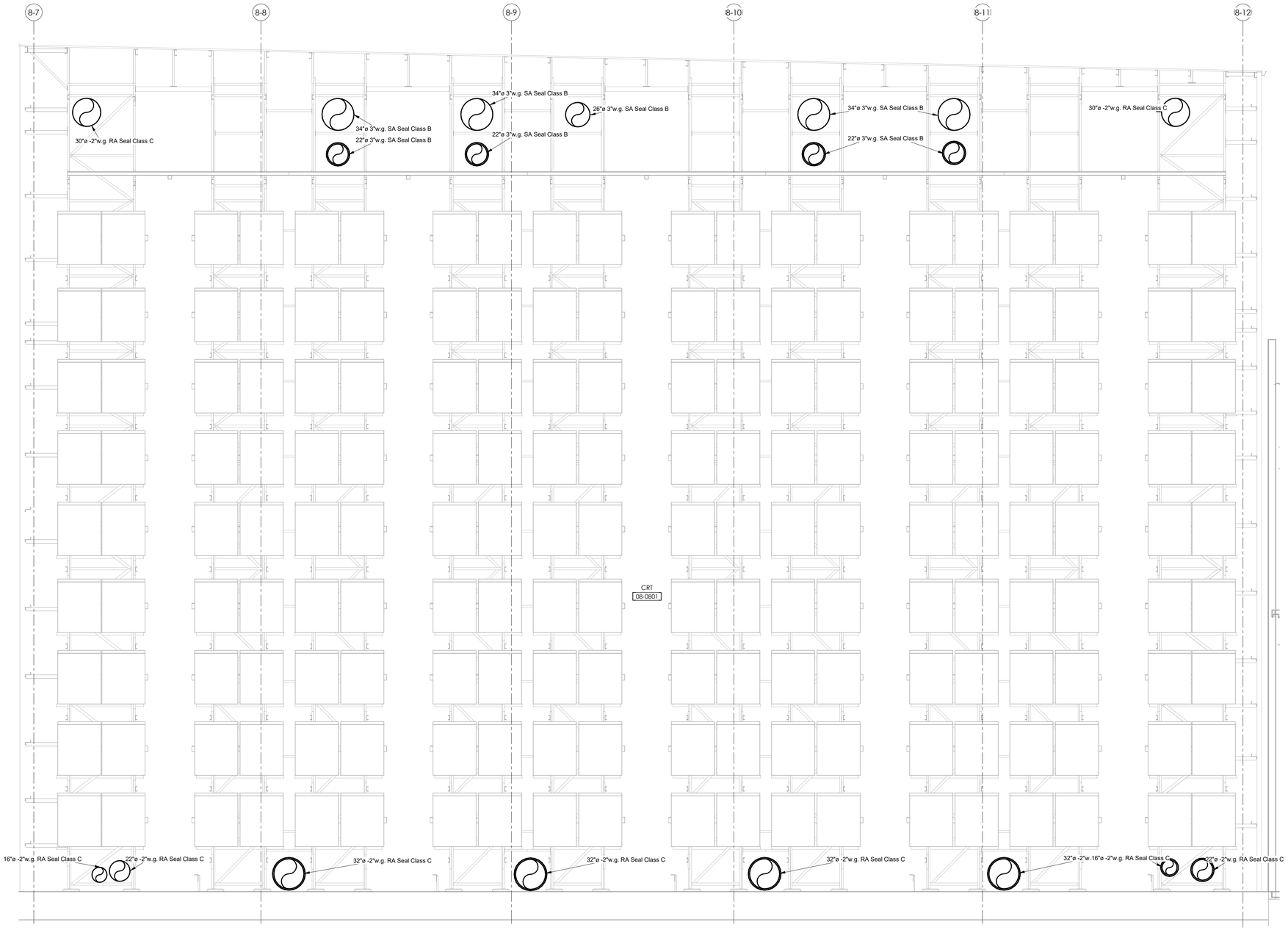

1 SECTION
SCALE: 1/4" = 1'-0"

NORTH CAROLINA PROFESSIONAL SEAL 043024 ENGINEER JASON M ARY
3-3-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B8 SECTIONS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-5983			
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MH-00003003	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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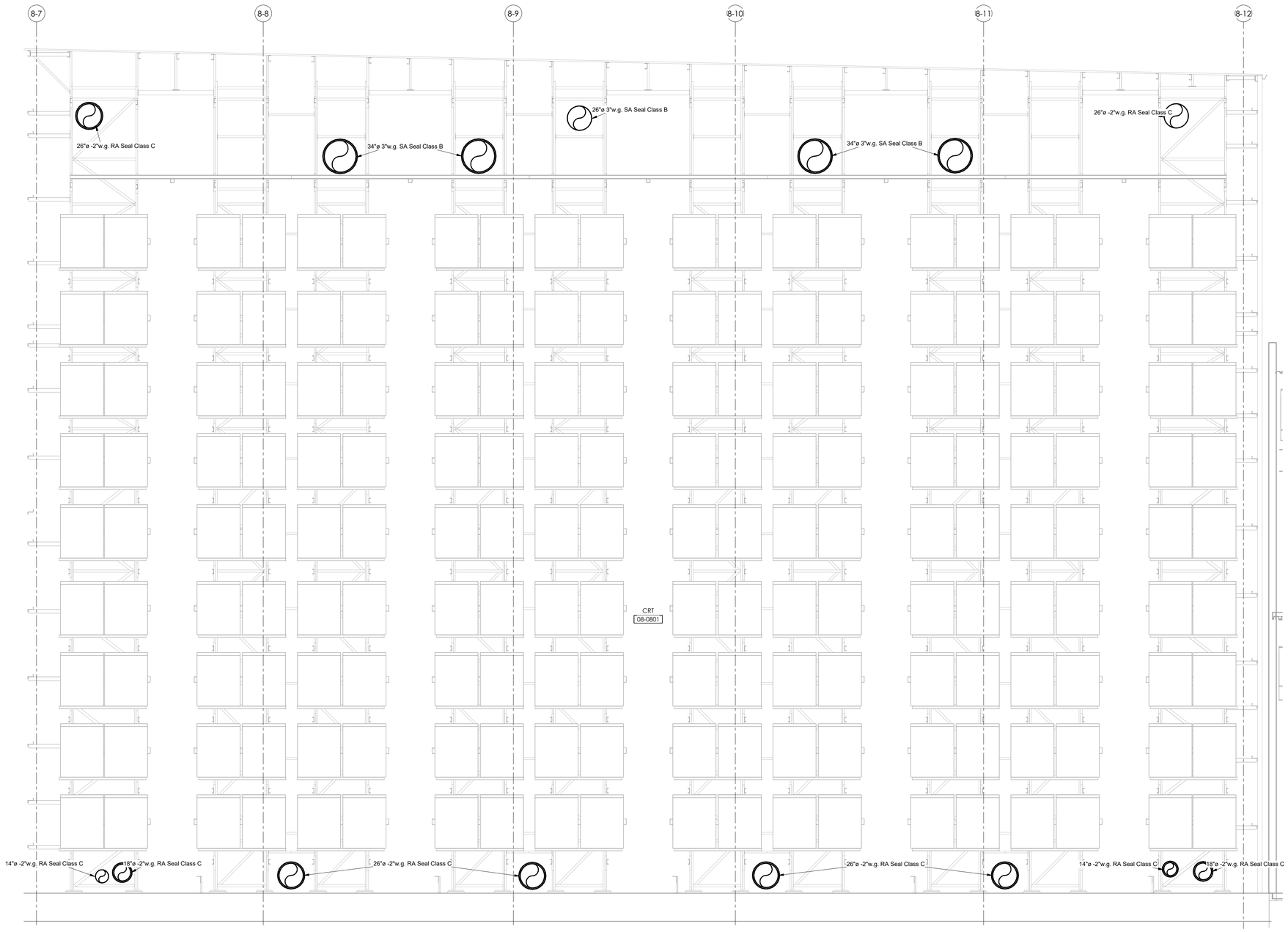

1 SECTION
SCALE: 1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043624 JASON M MAY
3-2023

MUSSETT NICHOLAS
ASSOCIATES
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Lilly
U.S.A.

AIR HANDLING SYSTEMS
B8
SECTIONS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE			EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC008-MH-00003004	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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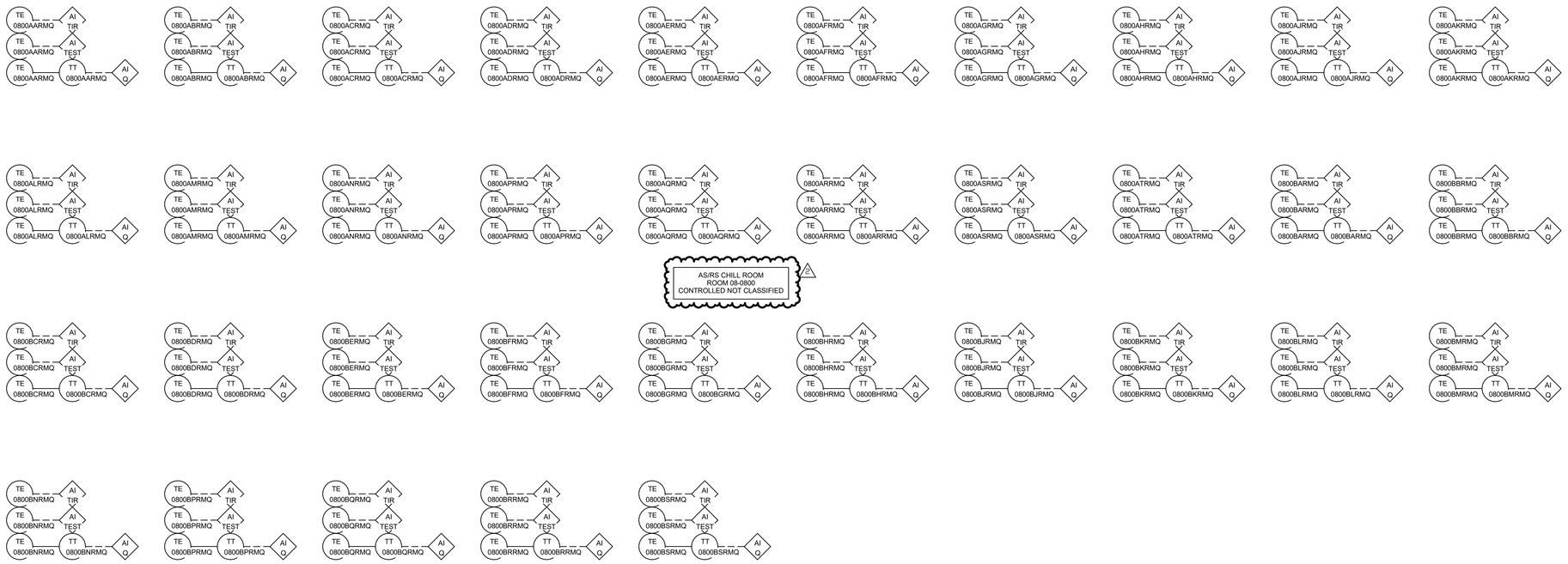
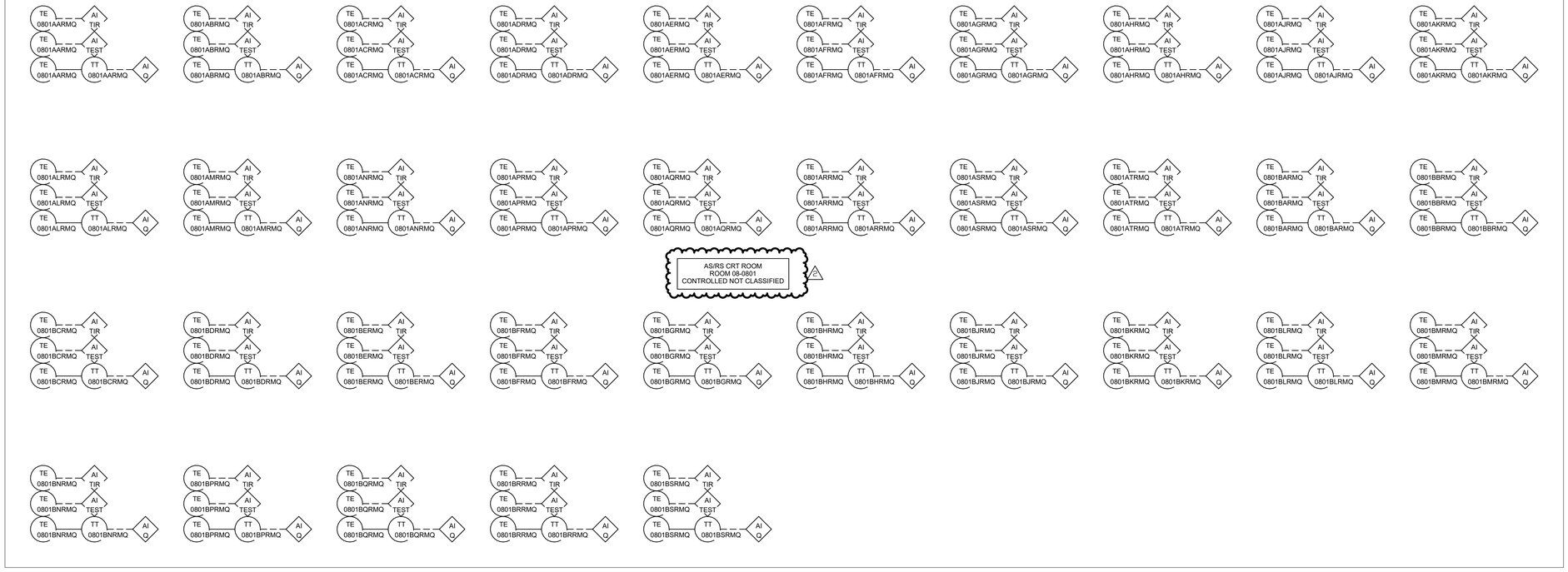
GENERAL NOTES:

G1. DESIGN BUILD CONTRACTOR (DBC) TO INCLUDE MONITORING AS SHOWN. OWNER TO DETERMINE FINAL LOCATION AFTER EACH SPACE IS TEMPERATURE MAPPED. SENSORS TO BE PRELIMINARILY LOCATED WITH INPUT FROM OWNER WITH A MIXTURE OF HIGH AND LOW LOCATIONS EVENLY SPREAD THROUGHOUT SPACE. CFD MODEL WILL ASSIST IN PRELIMINARY LOCATION OF SENSORS WHILE MINIMIZING FINAL LOCATION EFFORT.

G2. PROVIDE 30'-0" OF CABLE (EXTRA WIRE SPOOLED UP OUTSIDE OF CONDUIT) TO ALLOW FOR FINAL RE-LOCATION OF QBMS SENSORS.

G3. REFER TO FLOOR PLAN FOR PRELIMINARY LOCATIONS.





SEAL 035818 NORTH CAROLINA PROFESSIONAL ENGINEER JASON M. MAY
Date: 23-2023

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CRT & CHILL WAREHOUSE QBMS MONITORING

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2	ALL	BULLETIN-04	N/A	23-Aug-2023
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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DRAWING SCALE: None	CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
MERIDIAN REV	CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MI-00008990
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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MECHANICAL SYMBOLS

NOTES: 1. EXISTING TO REMAIN IS SHOWN WITH LIGHT LINES.
2. NEW WORK IS SHOWN WITH SOLID HEAVY LINES.

PIPING SYSTEMS

NEW		
S(XX)	STEAM	
CSTM	CLEAN STEAM	
SC(XX)	STEAM CONDENSATE	
SCP(XX)	PUMPED STEAM CONDENSATE	
CSC(XX)	CLEAN STEAM CONDENSATE	
SV	STEAM VENT	
V	UTILITY VENT	
HWS	HEATING HOT WATER SUPPLY	
HWR	HEATING HOT WATER RETURN	
CHWS	CHILLED WATER SUPPLY	
CHWR	CHILLED WATER RETURN	
PCHWS	PROCESS COOLING WATER SUPPLY (5 DEG C)	
PCHWR	PROCESS COOLING WATER RETURN (5 DEG C)	
GWS	PROCESS COOLING WATER SUPPLY (0 DEG C)	
GWR	PROCESS COOLING WATER RETURN (0 DEG C)	
D	DRAIN	
COND	COOLING COIL CONDENSATE	
SAN	SANITARY WASTE OR SOIL LINE	
PSAN	PUMPED SANITARY WASTE	
CWW	CLEARWATER WASTE	
IW	INDIRECT WASTE	
ST	STORM	
HAZWST2	SECONDARY WASTE	
PHAZWST2	PUMPED SECONDARY WASTE	
AW	AQUEOUS WASTE	
PAW	PUMPED AQUEOUS WASTE	
AWN	AQUEOUS WASTE NEUTRALIZATION	
PAWN	PUMPED AQUEOUS WASTE NEUTRALIZATION	
VS	WASTE OR SOIL VENT	
CWV	CLEARWATER VENT	
RL	REFRIGERANT LIQUID	
RS	REFRIGERANT SUCTION	
RHG	REFRIGERANT HOT GAS	
RV	REFRIGERANT VENT	
DCW	DOMESTIC POTABLE COLD WATER	
DWH	DOMESTIC POTABLE HOT WATER	
DWR	DOMESTIC POTABLE HOT WATER RETURN	
LCW	LAB COLD WATER	
LHW	LAB HOT WATER	
LHR	LAB HOT WATER RETURN	
SWP	POTABLE SOFT WATER	
LW	LABORATORY WASTE	
LV	LABORATORY VENT	

NEW	
SWNP	NONPOTABLE SOFT WATER
SS	SAFETY SHOWER AND EYEWASH WATER
WNPC	NON POTABLE COLD WATER
TP	TRAP PRIMER
PWTR	PURIFIED WATER
WBSO	WATER FOR BULK STERILE
WVAC	WASTE VACUUM
VAC	LAB VACUUM
LVE	LAB VACUUM EXHAUST
CA (XX)	COMPRESSED AIR
BA	BREATHING AIR
AI(XX)	INSTRUMENT AIR
EA(XX)	EQUIPMENT AIR
PCA(XX)	PROCESS COMPRESSED AIR
He	HELIUM
N2	NITROGEN
N2HP	HIGH PURITY NITROGEN
O2	OXYGEN
AR	ARGON
HAZFD	FIRE PROTECTION CONTAINMENT DRAIN
WFO-RODI	WATER FOR OPERATIONS - DEIONIZED
WFO-F	WATER FOR OPERATIONS -
SOLVWST	SOLVENT WASTE PUMPED
PGS	PROPYLENE GLYCOL SUPPLY
PGR	PROPYLENE GLYCOL RETURN

(XX) = SYSTEM PRESSURE IN PSIG
(YY) = SYSTEM TEMPERATURE IN DEGREES C

PIPING

OPERATIONS	SINGLE	DOUBLE	
			ELBOW DOWN
			ELBOW UP
			BOTTOM CONNECTION (45° OR 90°)
			TOP CONNECTION (45° OR 90°)
			45° PIPE RISE(R) /DROP(D)
		N/A	TEE (REFER TO SPECIFICATION FOR SIDE, TOP OR BOTTOM TEE)
			EXISTING PIPING TO REMAIN
			EXISTING PIPING TO BE REMOVED

FIELD MOUNTED CONTROLS

- (P) PRESSURE TRANSMITTER
- (F) DUCT SMOKE DETECTOR
- (T) TEMPERATURE SENSOR
- (H) THERMOCOUPLE
- (H) TEMPERATURE ELEMENT

PIPE/DUCT MATERIALS

AL	ALUMINUM
CI	CAST IRON
CS	CARBON STEEL
CU	COPPER
DI	DUCTILE IRON
FG	FIBERGLASS
GS	GALVANIZED STEEL
SS	STAINLESS STEEL
PP	POLYPROPLENE
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYLIDENE FLUORIDE

SITE SYSTEMS

NEW	EXISTING	
W	XW	WATER LINE
SAN	XSAN	SANITARY SEWER
STM	XSTM	STORM SEWER
FM	XFM	FORCE MAIN
F	XF	FIRE MAIN
		SHUTOFF VALVE

NEW	EXISTING	
MH	MH	MANHOLE
FH	FH	FIRE HYDRANT
CB/NL	CB/NL	CATCH BASIN OR INLET
CI	CI	CURB INLET
PIV	PIV	POST INDICATOR VALVE

PIPING SPECIALTIES

- GENERAL PIPELINE STRAINER WITHOUT DRAIN
- GENERAL PIPELINE STRAINER WITH DRAIN
- STEAM & CONDENSATE PIPELINE STRAINER
- WATER SYSTEM PIPELINE STRAINER
- SUCTION DIFFUSER
- DUPLEX STRAINER
- BASKET STRAINER
- FLANGE UNION
- 2" AND SMALLER, CAP OR PLUG
- 2 1/2" AND LARGER, BLIND FLANGE
- INVERTED BUCKET TRAP
- STEAM TRAP (ACTUAL PIPING AS SHOWN BELOW)
- FLOAT AND THERMOSTATIC TRAP
- THERMOSTATIC TRAP
- EXPANSION JOINT
- PIPE FLEXIBLE CONNECTION
- BALL JOINT
- NOISE SUPPRESSOR
- WATER HAMMER ARRESTOR
- HEAT TRACE TERMINATION POINT
- HEAT TRACE POWER CONNECTION POINT
- MEDICAL GAS TERMINAL (MG) OR LAB GAS TERMINAL (LG)
- VALVES IN A BOX (VIB)
- SANITARY TRI-CLAMP CONNECTION
- FILTER/REGULATOR
- THERMOMETER
- PRESSURE GAUGE (WITH GAUGE VALVE)
- FLOW SENSOR
- FLOW SWITCH
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- THERMOSTATIC AIR VENT
- VACUUM BREAKER
- TEST PLUG (PRESSURE/TEMP.)
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- DIRECTION OF PITCH (DOWN)
- DIRECTION OF FLOW
- PIPE GUIDE
- PIPE SLEEVE
- ANCHOR
- EXPANSION JOINT
- WALL HYDRANT (WH)
- HOSE BIBB (HB)
- FLOOR DRAIN (FD)
- ROOF DRAIN (RD)
- OVERFLOW DRAIN (OD)
- HUB DRAIN (HD)
- FIXTURE WASTE TRAP
- P-TRAP
- CLEANOUT (CO)

VALVES

- BUTTERFLY VALVE
- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- SHUTOFF VALVE (BUTTERFLY VALVE FOR 2 1/2" AND LARGER, BALL VALVE FOR 2" AND SMALLER)
- GAUGE VALVE
- PLUG VALVE
- BALANCING VALVE
- THERMAL EXPANSION VALVE
- SPRING CHECK VALVE
- SWING CHECK VALVE
- DIAPHRAGM VALVE
- 2-WAY SOLENOID VALVE
- 2-WAY CONTROL VALVE (VALVE BODY AS SPECIFIED)
- 3-WAY MIXING VALVE WITH ARROW INDICATING FAIL POSITION
- 3-WAY DIVERTING VALVE WITH ARROW INDICATING FAIL POSITION
- 4-WAY VALVE WITH ARROW INDICATING FAIL POSITION
- VALVE IN VERTICAL PIPE
- TRIPLE DUTY VALVE
- DRAIN VALVE
- DRAIN VALVE WITH CAP
- V HOSE CONNECTION WITH CAP THREADED
- LOCKSHIELD VALVE
- PRESSURE REGULATING VALVE-PRV (REMOTE SENSING)
- PRESSURE REGULATING VALVE-PRV (DOWNSTREAM SETPOINT)
- PRESSURE REDUCING VALVE-PRV (UPSTREAM SETPOINT)
- REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)
- PRESSURE RELIEF VALVE (PSV) OR SAFETY VALVE (SV)
- RUPTURE DISK PRESSURE RELIEF
- RUPTURE DISK VACUUM RELIEF
- FLOAT OPERATED VALVE
- QUICK OPENING VALVE
- GAS SHUTOFF VALVE
- ANGLE VALVE

(XX) DEFINES FAIL POSITION OR NORMAL POSITION.
FC = FAIL CLOSED (CONTROL VALVE OR DAMPER).
FO = FAIL OPEN (CONTROL VALVE OR DAMPER)
NC = NORMALLY CLOSED (CONTROL VALVE OR DAMPER)
NO = NORMALLY OPEN (CONTROL VALVE OR DAMPER)
LS = TRAVEL OPENING STOP

FIRE PROTECTION SYMBOLS

NOTE: SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

- X-F — EXISTING FIRE SUPPLY
- F — FIRE SUPPLY
- X-SP — EXISTING SPRINKLER PIPE
- SPR — SPRINKLER PIPE
- ELBOW DOWN
- ELBOW UP
- TEE DOWN
- TEE UP
- SPRINKLER RISER
- W — WET STAND PIPE
- PIPING CONNECTION
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- GATE VALVE
- TS — GATE VALVE WITH TAMPER SWITCH
- BUTTERFLY VALVE
- TS — BUTTERFLY VALVE WITH TAMPER SWITCH
- CHECK VALVE
- DELUGE VALVE
- DOUBLE CHECK BACKFLOW PREVENTER (DCBP)
- FLOW SWITCH
- PREACTION VALVE
- PIPE CAP OR FLUSHING CONNECTION
- AUTOMATIC BALL DRAIN DEVICE
- PIPE HANGER
- INSPECTOR'S TEST ASSEMBLY
- INSPECTOR'S TEST AND DRAIN ASSEMBLY
- XX — UPRIGHT SPRINKLER
- XX — PENDANT SPRINKLER-CONCEALED HEAD
- C — CONCEALED SPRINKLER WITH GASKET
- XX — PENDANT SPRINKLER-EXPOSED HEAD
- G — SPRINKLER GUARD
- XX — SIDEWALL SPRINKLER
- P — HORIZONTAL PENDANT SPRINKLER
- FIRE DEPARTMENT CONNECTION
- FIRE DEPARTMENT VALVE
- FHC — FIRE HOSE CABINET
- FHR — FIRE HOSE RACK
- FVC — FIRE VALVE CABINET
- HYDRAULIC REFERENCE POINT
- 1 1/2" / 11'-0" — SPRINKLER PIPE TEXT (TOP INDICATES PIPE SIZE) (BOTTOM INDICATES CENTER TO CENTER PIPE LENGTH)
- DRY PENDANT OR DRY SIDEWALL SPRINKLER NOMENCLATURE TEMPERATURE RATING (F)
- SPRINKLER ZONE BOUNDARY LINE
- HYDRAULIC CALCULATION DESIGN AREA
- XX — SPRINKLER HEAD TYPE, SEE SCHEDULE FOR DETAILS

DUCTWORK

SINGLE	DOUBLE	
		SUPPLY AIR (SA) OR OUTDOOR AIR (OA) (SOLID LINE WITH FILL OR HATCH TYPICAL FOR SUPPLY AND EXHAUST UP, BROKEN LINE DOWN)
		RETURN AIR (RA) OR RELIEF AIR DUCT. (SOLID LINE WITH FILL OR HATCH TYPICAL FOR SUPPLY AND EXHAUST UP, BROKEN LINE DOWN)
		EXHAUST AIR (EA) DUCT. (SOLID LINE WITH FILL OR HATCH TYPICAL FOR SUPPLY AND EXHAUST UP, BROKEN LINE DOWN)
		DUCT RISE/DROP W/90° ELBOWS (SUPPLY RECTANGULAR DUCT SHOWN)
		DUCT RISE (R)/DROP(D) W/45° ELBOWS (RECTANGULAR DUCTS)
		DUCT RISE/DROP W/90° ELBOWS (OVAL DUCTS)
		DUCT RISE(R)/DROP(D) W/45° ELBOWS (ROUND OR OVAL DUCTS)
		DUCT RISE/DROP W/90° ELBOWS (ROUND DUCTS)
	W R=1.5W	RADIUS ELBOW
SINGLE	SQUARE ELBOW OR W R=1.5W RADIUS ELBOW DOUBLE	SINGLE LINE SYMBOL INDICATES EITHER RADIUS OR SQUARE ELBOW (REFER TO SPEC. SECTION 15850 PART 3)
	45° W 1/4 W BUT NOT LESS THAN 6"	SQUARE/RECTANGULAR BRANCH TAKE-OFF (SA, RA, OR EA)
	OR	RECTANGULAR/ROUND BRANCH TAKE-OFF (SA) OR ROUND/ROUND BRANCH TAKE-OFF (SA)
		ROUND/ROUND BRANCH TAKE OFF (RA, EA)
	45° D 1/4 D BUT NOT LESS THAN 6"	RECTANGULAR/ROUND BRANCH TAKE OFF (RA, EA)
		45° LATERAL BRANCH
	R=1.5W W	RADIUS TEE
		SQUARE TEE W/TURNING VANES (FOR LOW PRESSURE SA DIVERGING ONLY)
	45° 1/4 W BUT NOT LESS THAN 6" W	BULLHEAD TEE (FOR LOW PRESSURE DUCTWORK ONLY)
		15° MAX. FOR DIVERGING, 25° MAX FOR CONVERGING TRANSITION - ECCENTRIC
		15° MAX. FOR DIVERGING, 25° MAX FOR CONVERGING TRANSITION - CONCENTRIC
		EXISTING DUCT TO REMAIN
		EXISTING DUCT TO BE REMOVED

DUCTWORK SPECIALTIES

- ELECTRIC REHEAT COIL
- TEST HOLE
- ACCESS DOOR (OR)
- C.O. — CLEAN OUT
- REHEAT COIL
- OR — FLEXIBLE DUCT
- DUCT FLEXIBLE CONNECTION
- POINT OF CHANGE IN DUCT CONSTRUCTION BY PRESSURE CLASS
- CAV AIR TERMINAL ACTUATOR
- VAV, VEV

LINEWORK LEGEND

- EXISTING TO REMAIN
- ITEM TO BE REMOVED (DEMO)
- NEW WORK

DIFFUSER NOTATION

DUCT SIZE IN INCHES (NET INSIDE DIMENSIONS) (RECTANGULAR SHOWN) DIA. INDICATES ROUND. INDICATES OVAL. FIRST FIGURE: SIDE SHOWN SECOND FIGURE: SIDE NOT SHOWN

SUPPLY AIR DUCT

DIFFUSER AIR PATTERN
1 ARROW: 1 WAY
2 ARROWS: 2 WAY
3 ARROWS: 3 WAY
4 ARROWS: 4 WAY
NO ARROWS: 4 WAY

12x8 5A — 12"DIA CD-1 450

- NECK SIZE IN INCHES
- CEILING DIFFUSER (CD) IDENTIFICATION
- AIR QUANTITY (CFM)

GRILLE, REGISTER NOTATION

EXHAUST AIR DUCT. RETURN AIR DUCT (RA)

12x6 EX — 12x6 G-1 250

- NECK SIZE IN INCHES
- RETURN OR EXHAUST GRILLE (G)
- REGISTER (R)
- SUPPLY GRILLE (SG)
- SUPPLY REGISTER (SR)
- LINEAR DIFFUSER (LD)
- LINEAR RETE/OVH GRILLE (LG)
- TRANSFER GRILLE (TG)
- AIR QUANTITY (CFM)

DUCT SIZE IN INCHES (NET INSIDE DIMENSIONS) FIRST FIGURE SHOWN SECOND FIGURE: SIDE NOT SHOWN

DUCTWORK AT DIFFUSERS AND GRILLES

SINGLE LINE HARD OR FLEXIBLE CONNECTION	DOUBLE LINE HARD OR FLEXIBLE CONNECTION	
		SQUARE/RECTANGULAR SUPPLY DIFFUSER, GRILLE OR REGISTER
		ROUND DIFFUSER
		RETURN REGISTER OR GRILLE (HORIZONTAL MOUNT)
		EXHAUST REGISTER OR GRILLE (HORIZONTAL MOUNT)
		EXHAUST OR RETURN REGISTER OR GRILLE (VERTICAL MOUNT)
		SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT)

DAMPERS

- MANUAL BALANCING DAMPER
- CONTROL DAMPER
- BACKDRAFT DAMPER
- 3 HOUR RATED FIRE DAMPER
- 1 1/2 HOUR RATED FIRE DAMPER
- BLAST GATE DAMPER
- SMOKE DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- OPPOSED BLADE DAMPER
- PARALLEL BLADE DAMPER
- GENERAL

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NO = NORMALLY OPEN (CONTROL VALVE OR DAMPER)

ACTUATORS

- MANUAL
- GENERAL
- MODULATING
- MODULATING WITH PILOT POSITIONER
- SOLENOID
- ELECTRIC MOTOR DRIVEN
- TWO POSITION SPRING RETURN
- DOUBLE ACTING TWO POSITION
- FUSIBLE LINK

SHEET SYMBOLS

- FLOW DIRECTION DESIGNATION
- LINE CONTINUE BREAK
- DETAILS AND SECTIONS DESIGNATION
- NEW WORK CONNECTION TO EXISTING WORK DESIGNATION
- DETAIL REFERENCE TOP DESIGNATES DETAIL NUMBER BOTTOM DESIGNATES ON WHICH SHEET DETAIL APPEARS — K104-XX-X-XXX
- PLAN NOTE DESIGNATION
- VIBRATION ISOLATOR
- SPECIALTY ITEMS (I.E. GAUGE FILTER, ETC.)
- BOTTOM OF PIPE AND DUCT DESIGNATION — BOP X'-XX"
- ELEVATION DESIGNATION
- EQUIPMENT DESIGNATION TOP DESIGNATES EQUIPMENT ABBREVIATION BOTTOM DESIGNATES EQUIPMENT NUMBER Y = FLOOR XXX = NUMERIC EQUIPMENT NUMBER
- REFER — PLAN CONTINUATION DESIGNATION
- REVISION NUMBER DESIGNATION
- ROOM NUMBER DESIGNATION
- SECTION DESIGNATION TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES ON WHICH SHEET SECTION APPEARS — K104-XX-X-XXX
- A/15B-6 OR 15B-6 — DETAIL REFERENCE (TOP= DETAIL NO., BOTTOM=SHEET NO. IN DETAIL MANUAL)
- ELEVATION DESIGNATION TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES ON WHICH SHEET SECTION APPEARS — K104-XX-X-XXX

EQUIPMENT ABBREVIATIONS

A	-	AGITATORS
ACCU	-	AIR COOLED CONDENSING UNIT
AD	-	COMPRESSED AIR DRYER
AE	-	AIR ELIMINATOR
AFMS	-	AIR FLOW MEASURING STATION
AF/R	-	AIR FILTER REGULATOR
AHU	-	AIR HANDLING UNIT
AMD	-	AIR MIXING DEVICE
AS	-	AUTOCLAVE
AV	-	AUTOMATIC AIR VENT
BSC	-	BIOSAFETY CABINET
BF	-	BOOSTER FAN
CAV	-	CONSTANT VOLUME SUPPLY AIR TERMINAL
CBF	-	CHEMICAL BATCH FEEDER
CC	-	COOLING COIL
CD	-	CEILING DIFFUSER
CEV	-	CONSTANT VOLUME EXHAUST AIR TERMINAL
CHLR	-	CHILLER
CIP	-	CEILING INTERFACE PANEL
CP	-	CONDENSATE PUMP /CONTROL PANEL
CSG	-	CLEAN STEAM GENERATOR
CV	-	CONTROL VALVE
CUH	-	CABINET UNIT HEATER
DC	-	DUST COLLECTION UNIT
DD	-	DESICCANT DEHUMIDIFIER
DHWU	-	DOMESTIC HOT WATER UNIT
DMPR	-	DAMPER
DH	-	DEHUMIDIFIER
EF	-	EXHAUST FAN
EFT	-	ELECTRIC FIN TUBE
EH	-	EXHAUST HOOD
EXP JT	-	EXPANSION JOINT
ES	-	EMERGENCY SHOWER
ET	-	EXPANSION TANK
EW	-	EMERGENCY EYEWASH
EWC	-	ELECTRIC WATER COOLER
EWF	-	EYE WASH FOUNTAIN
EXT	-	EXTINGUISHER
F	-	FILTER
FCD	-	FLOW CONTROL DAMPER
FCO	-	FLOOR CLEANOUT
FCU	-	FAN COIL UNIT
FD	-	FIRE DAMPER/FLOOR DRAIN
FE	-	FLOW ELEMENT
FIT	-	FLOW INDICATING TRANSMITTER
FLT	-	TERMINAL HEPA FILTER/WATER FILTER/ COMPRESSED GAS FILTER
FMS	-	FLOW MEASURING STATION
FT	-	FLASH TANK/ FIN TUBE RADIATION
FCU	-	FAN COIL UNIT
FCV	-	FLOW CONTROL VALVE
FFU	-	FAN/FILTER UNIT
G	-	EXHAUST/TRANSFER GRILLE
GD	-	GARBAGE DISPOSER
GFCU	-	GLYCOL FAN COIL UNIT
GG	-	GAUGE GLASS
H/AC	-	HEATING/ AIR CONDITIONING UNIT /AIR COMPRESSOR
HB	-	HOSE BIB
HC	-	HEATING COIL
HCV	-	HUMIDIFICATION CONTROL VALVE
HD	-	HUB DRAIN
HE	-	HEAT EXCHANGER
HFP	-	HVAC FIELD PANEL
HMP	-	HVAC METASYS PANEL
HRC	-	HEAT RECOVERY COIL
HRP	-	HVAC RELAY PANEL
HT	-	HEAT TRACE
HUM	-	STEAM HUMIDIFIER MANIFOLD
HV	-	HAND VALVE

GENERAL ABBREVIATIONS

AFF	-	ABOVE FINISHED FLOOR
AL	-	AIR LOCK
ALT	-	ALTERNATE
AP	-	ACCESS PANEL
BOD	-	BOTTOM OF DUCT ELEVATION
BOP	-	BOTTOM OF PIPE ELEVATION
BTU	-	BRITISH THERMAL UNIT
BTUH	-	BRITISH THERMAL UNITS PER HOUR
CA	-	COMBUSTION AIR
CAV	-	CONSTANT AIR VOLUME
CFCI	-	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFM	-	CUBIC FEET PER MINUTE
CHWS	-	CHILLED WATER SUPPLY
CHWR	-	CHILLED WATER RETURN
CL	-	CENTERLINE
CLG	-	CEILING
COND	-	CONDENSATE/CONDENSER/CONDUCTIVITY
CONN	-	CONNECTION/CONNECT
COP	-	CENTER OF PIPE
DB	-	DRY BULB TEMPERATURE
DC	-	DUST COLLECTOR AIR
DDC	-	DIRECT DIGITAL CONTROL
DFU	-	DRAINAGE FIXTURE UNIT
DIA	-	DIAMETER
DX	-	DIRECT EXPANSION
EA	-	EACH
EAT	-	ENTERING AIR TEMPERATURE
EDR	-	EQUIVALENT DIRECT RADIATION
EL	-	ELEVATION
ESP	-	EXTERNAL STATIC PRESSURE
ETR	-	EXISTING TO REMAIN
EWT	-	ENTERING WATER TEMPERATURE
EX	-	EXHAUST AIR
FA	-	FRESH AIR INTAKE /FIELD ADJUSTABLE
FAT	-	FINAL AIR TEMPERATURE
FC	-	FAIL CLOSED
FD	-	FLOOR DRAIN
FLA	-	FULL LOAD AMPS
FO	-	FAIL OPEN
FPI	-	FINS PER INCH
FPM	-	FEET PER MINUTE
FPS	-	FEET PER SECOND
GA	-	GAUGE
GC	-	GENERAL CONTRACT
GPM	-	GALLONS PER MINUTE
GWR	-	GLYCOL WATER RETURN
GWS	-	GLYCOL WATER SUPPLY
HEPA	-	HIGH EFFICIENCY PARTICULATE AIR FILTER
HOA	-	HAND-OFF-AUTO
HD	-	HUB DRAIN
HV	-	HAND VALVE
I/P	-	CURRENT TO PNEUMATIC
IA	-	INSTRUMENT AIR
IE	-	INVERT ELEVATION
LAT	-	LEAVING AIR TEMPERATURE
LWT	-	LEAVING WATER TEMPERATURE
MA	-	MIXED AIR
MAL	-	MATERIAL AIR LOCK
MBH	-	THOUSANDS OF BTU PER HOUR
MCC	-	MOTOR CONTROL CENTER
MEP	-	MECHANICAL, ELECTRICAL AND PIPING
MER	-	MECHANICAL EQUIPMENT ROOM
NCHWR	-	NMR CHILLED WATER RETURN
NCHWS	-	NMR CHILLED WATER SUPPLY
NA	-	NOT APPLICABLE
NC	-	NORMALLY CLOSED
NO	-	NORMALLY OPEN
NPS	-	NOMINAL PIPE SIZE
NPT	-	NATIONAL PIPE THREAD
NTS	-	NOT TO SCALE
OA	-	OUTSIDE AIR
OC	-	ON CENTER
OED	-	OPEN END DUCT
OFCI	-	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	-	OWNER FURNISHED, OWNER INSTALLED
OV	-	OUTLET VELOCITY
PA	-	PLANT AIR
PAL	-	PERSONNEL AIR LOCK
PCF	-	POUNDS PER CUBIC FOOT
PD	-	PRESSURE DROP
PSI	-	POUNDS PER SQUARE INCH
PSIA	-	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	-	POUNDS PER SQUARE INCH GAUGE
RA	-	RETURN AIR/RELIEF AIR
RM	-	ROOM
RPM	-	REVOLUTIONS PER MINUTE
SA	-	SUPPLY AIR
SOG	-	SLAB ON GRADE
SP	-	STATIC PRESSURE/SAMPLE POINT
SV	-	SAMPLE VALVE
TA	-	TRANSFER AIR
TBR	-	TO BE REMOVED
HHWR	-	TERMINAL HEATING HOT WATER RETURN
HHWS	-	TERMINAL HEATING HOT WATER SUPPLY
TOC	-	TOTAL ORGANIC CARBON
TOD	-	TOP OF DUCT
TOP	-	TOP OF PIPE ELEVATION
TOS	-	TOP OF SLAB ELEVATION /TOP OF STEEL
TSP	-	TOTAL STATIC PRESSURE
VAV	-	VARIABLE AIR VOLUME
VP	-	VELOCITY PRESSURE
VTR	-	VENT THRU ROOF
WB	-	WET BULB
WC	-	WATER COLUMN
WG	-	WATER GAUGE
WWM	-	WELDED WIRE MESH
X	-	EXISTING
ZN	-	ZONE(N=1,2,3)

NORTH CAROLINA PROFESSIONAL SEAL 043024 ENGINEER JASON M ARY 3-2023

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Lilly U.S.A.

MECHANICAL SYMBOLS & ABBREVIATIONS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE	EDIFICE/BUILDING: CONC008
	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MJ	LOCATION CODE: CONC
LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-5983	
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP
DRAWING INTENTION	DRAWING SCALE: None
CRITICAL BUSINESS: No	EQUIPMENT CLASSIFICATION
ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR
DOCUMENT ID: CONC008-MJ-00000001	
NON-CRITICAL: Yes	ENGINEERING AGENCY DOC ID

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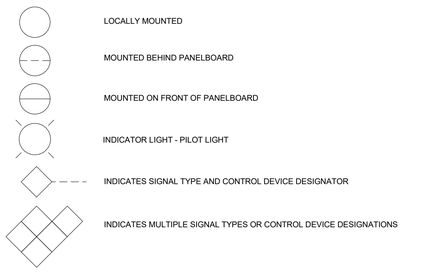
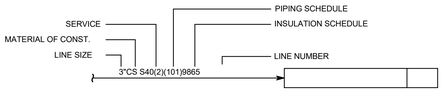
INSTRUMENT SYMBOLS



LINE NUMBERING CODE-PIPING



SIGNAL TYPE AND CONTROL DEVICE DESIGNATOR

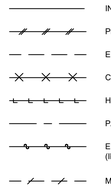
S = SIGNAL TYPE
M = MODE
D = DEVICE
# = SYSTEM NUMBER
T = TECHNOLOGY

SIGNAL TYPE/MODE
AI = ANALOG INPUT
AO = ANALOG OUTPUT
DI = DISCRETE INPUT
DO = DISCRETE OUTPUT

TECHNOLOGY
CN = CONTROLNET
DN = DEVICENET
IP = TCP/IP
SR = SERIAL

DEVICE
B = BUILDING MANAGEMENT SYSTEM
C = PROCESS OR UTILITY MANAGEMENT SYSTEM
F = FIRE ALARM OR ACCESS CONTROL SYSTEM
MC = MOTOR CONTROL CENTER
P = PROGRAMMABLE LOGIC CONTROLLER
SI = SAFETY INSTRUMENTED SYSTEM

INSTRUMENT LINE SYMBOLS



RELATIVE DIFFERENTIAL PRESSURES

(++)	PLUS 0.050" WC	WC (WATER COLUMN)
(+)	PLUS 0.025" WC	
(0)	ATMOSPHERIC	
(-)	MINUS 0.025" WC	
(--)	MINUS 0.050" WC	

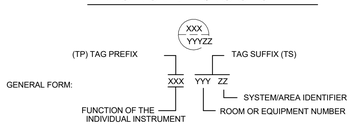
INSTRUMENT TAG PREFIXES(XXX)

DESIGNATION	DESCRIPTION	DESIGNATION	DESCRIPTION	DESIGNATION	DESCRIPTION
AA	AUDIBLE ALARM	LAL	LEVEL ALARM LOW	TE	TEMPERATURE ELEMENT
AC	ANALYTICAL CONTROLLER	LC	LEVEL CONTROLLER	TI	TEMPERATURE INDICATOR
ACV	ANALYTICAL CONTROL VALVE	LCV	LEVEL CONTROL VALVE	TIC	TEMPERATURE INDICATING CONTROLLER
AE	ANALYTICAL ELEMENT	LE	LEVEL ELEMENT	TIR	TEMPERATURE INDICATING RECORDER
AFT	ADJUSTABLE SPEED DRIVE FAULT TRIP	LEH	LEVEL ELEMENT HIGH	TIT	TEMPERATURE INDICATING TRANSMITTER
AIC	ANALYTICAL INDICATING CONTROLLER	LEL	LEVEL ELEMENT LOW	TS	TEMPERATURE SWITCH
AIR	ANALYTICAL INDICATING RECORDER	LGS	LIGHTING STATUS	TSH	TEMPERATURE SWITCH HIGH
AIS	ANALYTICAL INDICATING SWITCH	LGY	LIGHTING RELAY	TSL	TEMPERATURE SWITCH LOW
AIT	ANALYTICAL INDICATING TRANSMITTER	LI	LEVEL INDICATOR	TT	TEMPERATURE TRANSMITTER
AS	ANALYTICAL SWITCH	LIC	LEVEL INDICATING CONTROLLER	TW	THERMOWELL
ASH	ANALYTICAL SWITCH HIGH	LIR	LEVEL INDICATING RECORDER	TYD	TEMPERATURE CONTROL DAMPER RELAY
ASL	ANALYTICAL SWITCH LOW	LIT	LEVEL INDICATING TRANSMITTER	TYV	TEMPERATURE CONTROL VALVE RELAY
AT	ANALYTICAL TRANSMITTER	LS	LEVEL SWITCH	UC	MULTIVARIABLE CONTROLLER
DA	DAMPER ACTUATOR	LSH	LEVEL SWITCH HIGH	UIC	MULTIVARIABLE INDICATING CONTROLLER
ET	VOLTAGE TRANSMITTER	LSL	LEVEL SWITCH LOW	UIR	MULTIVARIABLE INDICATING RECORDER
FA	FLOW ALARM	LT	LEVEL TRANSMITTER	UIT	MULTIVARIABLE INDICATING TRANSMITTER
FC	FLOW CONTROLLER	MC	MOTOR CONTROL	UT	MULTIVARIABLE TRANSMITTER
FCD	FLOW CONTROL DAMPER	MD	MOTION DETECTOR	VIT	VIBRATION INDICATING TRANSMITTER
FCV	FLOW CONTROL VALVE	MS	MOTOR STATUS	VS	VIBRATION SWITCH
FE	FLOW ELEMENT	MY	MOTOR RELAY	VT	VIBRATION TRANSMITTER
FI	FLOW INDICATOR	PA	PRESSURE ALARM	XA	MISCELLANEOUS ALARM
FIC	FLOW INDICATING CONTROLLER	PC	PRESSURE CONTROLLER	XIR	MISCELLANEOUS INDICATING RECORDER
FIR	FLOW INDICATING RECORDER	PCD	PRESSURE CONTROL DAMPER	XIT	MISCELLANEOUS INDICATING TRANSMITTER
FIS	FLOW INDICATING SWITCH	PCV	PRESSURE CONTROL VALVE	XL	MISCELLANEOUS LIGHT
FIT	FLOW INDICATING TRANSMITTER	PDI	PRESSURE DIFFERENTIAL INDICATOR	XS	MISCELLANEOUS SWITCH
FS	FLOW SWITCH	PDS	PRESSURE DIFFERENTIAL SWITCH	XT	MISCELLANEOUS TRANSMITTER
FSH	FLOW SWITCH HIGH	PDT	PRESSURE DIFFERENTIAL TRANSMITTER	YI	STATUS INDICATING LIGHT
FSL	FLOW SWITCH LOW	PE	PRESSURE ELEMENT	ZI	LIMIT/POSITION INDICATOR
FT	FLOW TRANSMITTER	PI	PRESSURE INDICATOR	ZS	LIMIT/POSITION SWITCH
FV	FLOW VALVE (2-POSITION)	PIC	PRESSURE INDICATING CONTROLLER	ZSC	LIMIT/POSITION SWITCH CLOSED
FYD	FLOW CONTROL DAMPER RELAY	PIR	PRESSURE INDICATING RECORDER	ZSH	LIMIT/POSITION SWITCH/VALVE HIGH (OPEN)
FYV	FLOW CONTROL VALVE RELAY	PIT	PRESSURE INDICATING TRANSMITTER	ZSL	LIMIT/POSITION SWITCH/VALVE LOW (CLOSED)
GA	GENERAL ALARM	PP	PRESSURE PORT	ZSO	LIMIT/POSITION SWITCH OPEN
HA	HUMIDITY ALARM	PRV	PRESSURE REGULATING VALVE		
HC	HUMIDITY CONTROLLER	PS	PRESSURE SWITCH		
HCD	HUMIDITY CONTROL DAMPER	PSH	PRESSURE SWITCH HIGH		
HCH	HUMIDITY CONTROLLER HIGH LIMIT	PSL	PRESSURE SWITCH LOW		
HCV	HUMIDITY CONTROL VALVE	PT	PRESSURE TRANSMITTER		
HI	HUMIDITY INDICATOR	PYD	PRESSURE CONTROL DAMPER RELAY		
HIC	HUMIDITY INDICATING CONTROLLER	PYV	PRESSURE CONTROL VALVE RELAY		
HIR	HUMIDITY INDICATING RECORDER	SC	SPEED CONTROLLER		
HIT	HUMIDITY INDICATING TRANSMITTER	SD	SMOKE DETECTOR		
HS	HAND SWITCH	SE	SPEED ELEMENT		
HT	HUMIDITY TRANSMITTER	SI	SPEED INDICATOR		
HYD	HUMIDITY CONTROL DAMPER RELAY	SIC	SPEED INDICATING CONTROLLER		
HYV	HUMIDITY CONTROL VALVE RELAY	SIT	SPEED INDICATING TRANSMITTER		
IA	CURRENT ALARM	ST	SPEED TRANSMITTER		
IE	CURRENT ELEMENT	SV	SOLENOID VALVE		
IIT	CURRENT INDICATING TRANSMITTER	SX	SPEED SWITCH		
IS	CURRENT SWITCH	SY	SPEED/FREQUENCY RELAY		
IT	CURRENT TRANSMITTER	SZ	SPEED/FREQUENCY FEEDBACK		
JA	POWER ALARM	TA	TEMPERATURE ALARM		
JIT	POWER INDICATING TRANSMITTER	TC	TEMPERATURE CONTROLLER		
JT	POWER TRANSMITTER	TCD	TEMPERATURE CONTROL DAMPER		
LA	LEVEL ALARM	TCV	TEMPERATURE CONTROL VALVE		
LAH	LEVEL ALARM HIGH	TDT	TEMPERATURE DIFFERENTIAL TRANSMITTER		

INSTRUMENT TAG SUFFIXES (ZZ)

DESIGNATION	DESCRIPTION	DESIGNATION	DESCRIPTION
CC	COOLING COIL	OA	OUTSIDE AIR
CD	COLD DECK	PC	PRECOOL
CO	CONDENSATE	PH	PREHEAT
CR	CHILLED WATER RETURN	RA	RETURN AIR
CS	CHILLED WATER SUPPLY	RC	REACTIVATION
DH	DEHUMIDIFICATION SYSTEM	RH	REHEAT
EX	EXHAUST AIR	RM	ROOM
GR	GLYCOL RETURN	SA	SUPPLY AIR
GS	GLYCOL SUPPLY	SS	STEAM SUPPLY
HC	HEATING COIL	TR	TOWER WATER RETURN
HD	HOT DECK	TS	TOWER WATER SUPPLY
HR	HOT WATER RETURN	Zn	ZONE (n=1,2,3, etc.)
HS	HOT WATER SUPPLY		
MA	MIXED AIR		
MU	MAKEUP AIR		

TAG NUMBERING SYSTEM



TYPICAL TAG: TCV-001PH — TCV TEMPERATURE CONTROL VALVE; 001 AHU-001; PH PREHEAT

FCD-001OA — FCD FLOW CONTROL DAMPER; 001 AIR HANDLER AHU-001

ABBREVIATIONS FOR OUTSIDE BUBBLE (AE, AIT, AT)

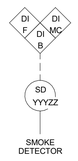
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
DEW PT	DEW POINT
REF	REFRIGERANT

NOTE: FOR BUILDING MANAGEMENT SYSTEM, MAX. TAG CHARACTERS=8. WHEN ROOM NUMBERS CONTAIN MORE THAN THREE DIGITS, THE "EX","RA","RM" OR "RH" SUFFIX MAY BE DELETED FROM THE TAG SUFFIX IN ORDER TO MEET THE 8 CHARACTER LIMITATION.

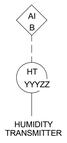
MISCELLANEOUS HVAC ABBREVIATIONS

DESIGNATION	DESCRIPTION	DESIGNATION	DESCRIPTION	DESIGNATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT	ENCL	ENCLOSURE	RAD	RADIATOR
AHU	AIR HANDLING UNIT	EVAP	EVAPORATOR	SAD	SOUND ATTENUATOR
ASD	AC ADJUSTABLE SPEED DRIVE	EXH	EXHAUST	SEP	SEPARATOR
BFP	BACKFLOW PREVENTER	FAN	FAN	ST	STEAM TRAP
BOIL	BOILER	FC	FAIL CLOSED	STR	STRAINER
BV	BALANCING VALVE	FLT	FILTER (OTHER THAN HEPA)	TEV	THERMAL EXPANSION VALVE
CAV	CONSTANT SUPPLY AIR VOLUME	FFB	FAIL FULL BYPASS (F&B COIL)	TK	TANK
CEV	CONSTANT EXHAUST AIR VOLUME	FFF	FAIL FULL FACE (F&B COIL)	TVS	TRAP VALVE STATION
CHLR	CHILLER	FO	FAIL OPEN	UAF	UNIDIRECTIONAL AIRFLOW UNIT
COIL	COIL	FXD	FLEXIBLE DUCT DROP	UH	UNIT HEATER
COMP	COMPRESSOR	H	HUMIDIFIER	UPS	UNINTERRUPTABLE POWER SUPPLY
COND	CONDENSER	HE	HEAT EXCHANGER	VAV	VARIABLE SUPPLY AIR VOLUME
CT	COOLING TOWER	HEPA	HEPA FILTER	VB	VACUUM BREAKER
CV	CHECK VALVE	HV	HAND VALVE	VEV	VARIABLE EXHAUST AIR VOLUME
D	DAMPER	LVR	LOUVER	VIV	VARIABLE INLET VANE
DC	DUST COLLECTOR	MCC	MOTOR CONTROL CENTER		
DEH	DEHUMIDIFIER	MTR	MOTOR		
EI	ENGINEERED ITEM	P	PUMP		
EJ	EXPANSION JOINT				

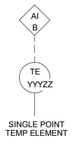
AF & ID STANDARD SYMBOLS



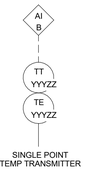
SMOKE DETECTOR



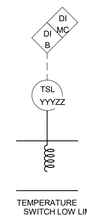
HUMIDITY TRANSMITTER



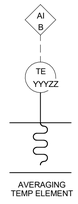
SINGLE POINT TEMP ELEMENT



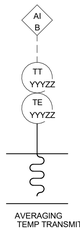
SINGLE POINT TEMP TRANSMITTER



TEMPERATURE SWITCH LOW LIMIT

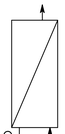


AVERAGING TEMP ELEMENT

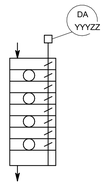


AVERAGING TEMP TRANSMITTER

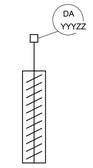
PREHEAT COIL COIL-YYYPH
HEATING COIL COIL-YYYHC
REACTIVATION COIL COIL-YYYRC



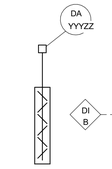
PRECOOL COIL COIL-YYYPC



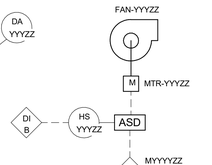
FACE & BYPASS PREHEAT COIL COIL-YYYPH



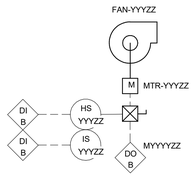
PARALLEL BLADE DAMPER



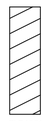
OPPOSED BLADE DAMPER



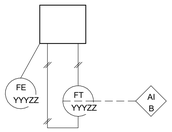
AC ADJUSTABLE SPEED DRIVE



CONSTANT SPEED DRIVE


FLT-YYY
FILTER (NON-HEPA)

HEPA-YYY
HEPA FILTER



FLOW TRANSMITTER

REHEAT COIL -YYYRH

EXHAUST FAN

BLADDER DAMPER

VENTURI DAMPER

ACTUATOR

GATE VALVE

GLOBE VALVE

BALL VALVE

BALANCING VALVE

BUTTERFLY VALVE

CHECK VALVE

VACUUM BREAKER

TO DRAIN

STRAINER

AIR INFILTRATION / EXFILTRATION

STEAM HUMIDIFIER MANIFOLD

FUSIBLE LINK FIRE DAMPER

VOLUME DAMPER

COMBINATION MAGNETIC MOTOR STARTER WITH DISCONNECT SWITCH

PRESSURE DIFFERENTIAL TRANSMITTER

INLINE TAP (E.G., THERMOWELL PRESSURE PORT, T/P PORT)

STEAM TRAP

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NORTH CAROLINA PROFESSIONAL SEAL 043656 ENGINEER JASON M MUSSETT 03-3-2023

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Lilly U.S.A.

P&ID SYMBOLS & ABBREVIATIONS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MJ	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-5983			
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
DRAWING SCALE: None			
CRITICAL BUSINESS: No		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
MERIDIAN REV			
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC008-MJ-00000002
NON-CRITICAL: Yes		ENGINEERING AGENCY DOC ID	

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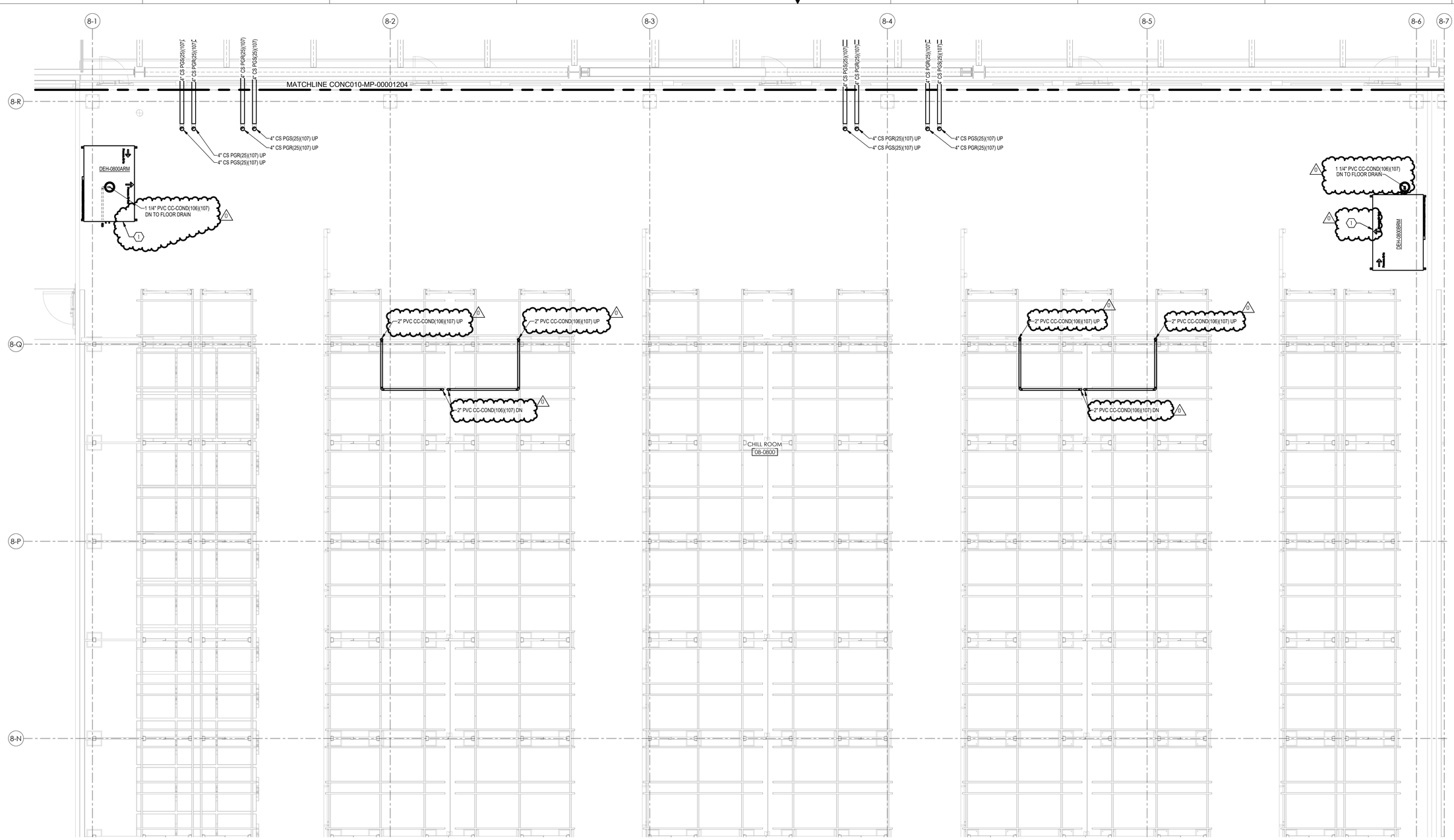


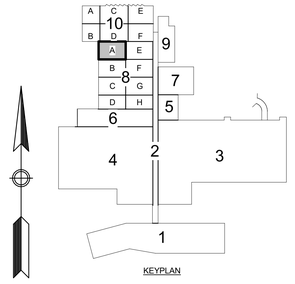
GENERAL NOTES:

G1 REFER TO PIPING DRAWINGS AND DETAILS FOR MORE INFORMATION ON PIPE ACCESSORIES, CONNECTION SIZES, ETC.

G2 COORDINATE PIPING SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

KEYED NOTES:

1 INSTALL DEHUMIDIFIER UNIT ON STRUCTURAL PLATFORM. REFER TO CONC008-SF-00001101 FOR MORE INFORMATION.



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043004 JASON M ARY
3-3-2023

MUSSETT NICHOLAS ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

INTERIOR SERVICE PIPING B8/LEVEL 1 FIRST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

CONFIDENTIAL INFORMATION
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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 1/1
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MP-00001101	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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8-1 8-2 8-3 8-4 8-5 8-6 8-7

8-D

8-C

8-B

8-A

CHILL ROOM
08-0800

2" PVC CC-COND(106)(107) DN

2" PVC CC-COND(106)(107) UP

2" PVC CC-COND(106)(107) UP

2" PVC CC-COND(106)(107) DN

2" PVC CC-COND(106)(107) UP

2" PVC CC-COND(106)(107) UP

1 1/4" PVC CC-COND(106)(107)
DN TO FLOOR DRAIN

1 1/4" PVC CC-COND(106)(107)
FROM DEHUMIDIFIER

1 1/4" PVC CC-COND(106)(107)
FROM DEHUMIDIFIER

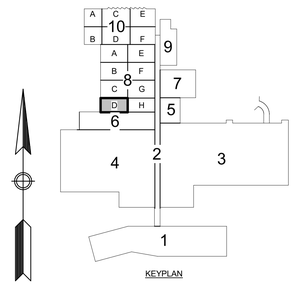
1 1/4" PVC CC-COND(106)(107)
DN TO FLOOR DRAIN

IT CABINET

GENERAL NOTES:

G1 REFER TO PIPING DRAWINGS AND DETAILS FOR MORE INFORMATION ON PIPE ACCESSORIES, CONNECTION SIZES, ETC.

G2 COORDINATE PIPING SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.



KEYPLAN

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
JASON M MAY
043024
03-2023

MUSSETT NICHOLAS
ASSOCIATES
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317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly
U.S.A.

INTERIOR SERVICE PIPING
B8/LEVEL 1
FIRST FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

CONFIDENTIAL INFORMATION
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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 1/1
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID	CCI CODE: YELLOW
			PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MP-00001104	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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8-1 8-2 8-3 8-4 8-5 8-6 8-7

8-D

8-C

8-B

8-A

CHILL ROOM
08-0800

DEH-0800CRM

1

1 1/4" PVC CC-COND(106)(107) DN

1 1/4" PVC CC-COND(106)(107) DN

DEH-0800DRM

1

GENERAL NOTES:

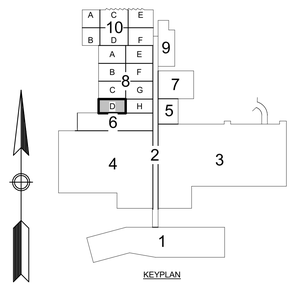
G1 REFER TO PIPING DRAWINGS AND DETAILS FOR MORE INFORMATION ON PIPE ACCESSORIES, CONNECTION SIZES, ETC.

G2 COORDINATE PIPING SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

KEYED NOTES:

1 INSTALL DEHUMIDIFICATION UNIT ON SECOND FLOOR PLATFORM. REFER TO CONC008-SF-00001101 FOR SUPPORT DETAILS.

NORTH CAROLINA PROFESSIONAL SEAL 043008 ENGINEER JASON M MAY
3-3-2023



KEYPLAN

MUSSETT NICHOLAS ASSOCIATES
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Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

INTERIOR SERVICE PIPING B8/LEVEL 6 SECOND FLOOR

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 6/2
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC008-MP-00001105	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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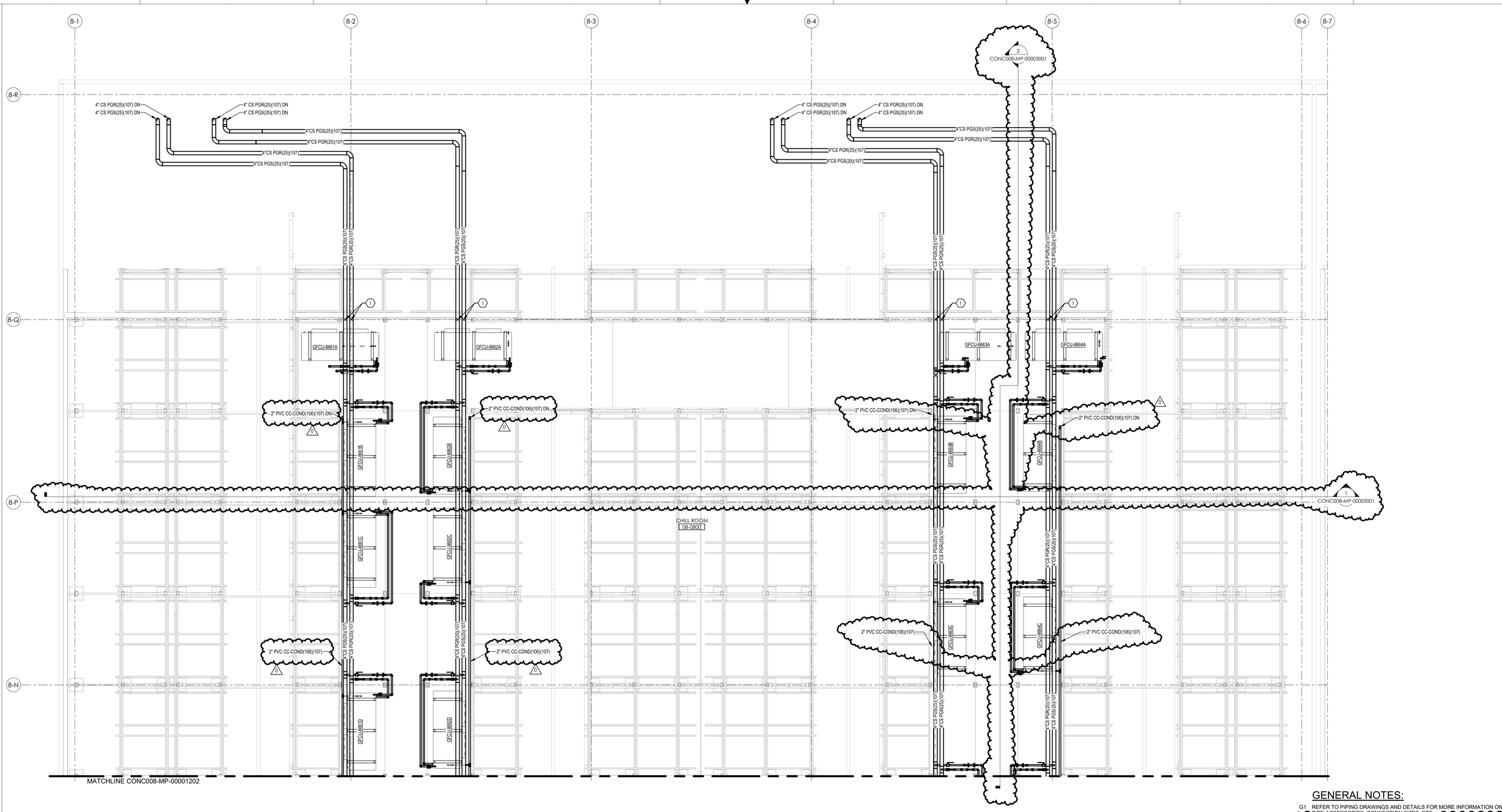


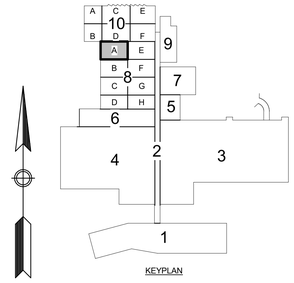
GENERAL NOTES:

G1 REFER TO PIPING DRAWINGS AND DETAILS FOR MORE INFORMATION ON PIPE ACCESSORIES, CONNECTION SIZES, ETC.

G2 COORDINATE PIPING SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

KEYED NOTES:

1 PROVIDE PIPE ANCHOR AS INDICATED. COORDINATE EXACT LOCATION WITH ENGINEERED PRODUCT STRUCTURAL ENGINEER. REFER TO DETAIL 'C' ON SHEET CONC010-SF-00005001.



KEYPLAN

NORTH CAROLINA PROFESSIONAL SEAL 043624 ENGINEER JASON M MINNICH 03-2023

MUSSETT NICHOLAS ASSOCIATES
ENGINEERS + ARCHITECTS
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Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

INTERIOR SERVICE PIPING B8/LEVEL 12 CATWALK

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 12/CW
SUB DISCIPLINE: MP	LOCATION CODE: CONC	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MP-00001201	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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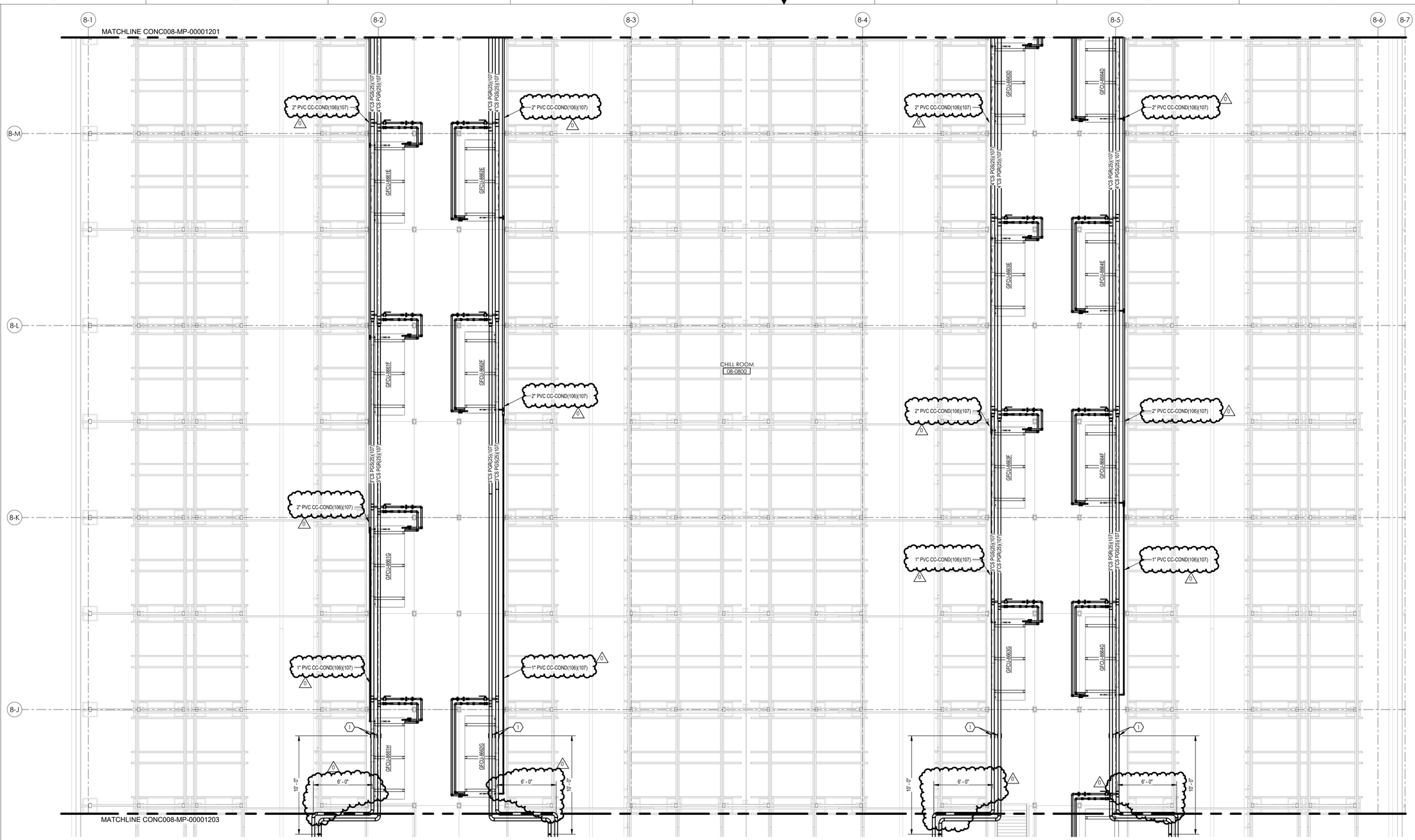
IF YOU ARE USING A PRINTED COPY OF THIS DOCUMENT, IT IS AN UNCONTROLLED PRINT. CONFIRM WITH THE OFFICIAL "ELECTRONIC RECORD" DOCUMENT IN THE GLOBAL ENGINEERING CONTENT MANAGEMENT SYSTEM.



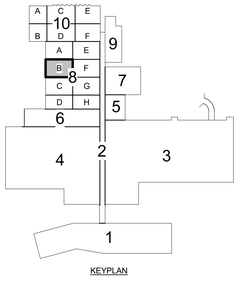
GENERAL NOTES:

G1 REFER TO PIPING DRAWINGS AND DETAILS FOR MORE INFORMATION ON PIPE ACCESSORIES, CONNECTION SIZES, ETC.

G2 COORDINATE PIPING SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

KEYED NOTES:

1 PROVIDE PIPE GUIDES ON GLYCOL PIPING AT 10'-0" FROM CENTER OF EXPANSION LOOP. REFER TO DETAIL 'B' ON SHEET CONC010-SF-00005001.



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042220 JASON M MARTIN 3-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

INTERIOR SERVICE PIPING B8/LEVEL 12 CATWALK

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

CONFIDENTIAL INFORMATION
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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 12/CW
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID	CC CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC008-MP-00001202	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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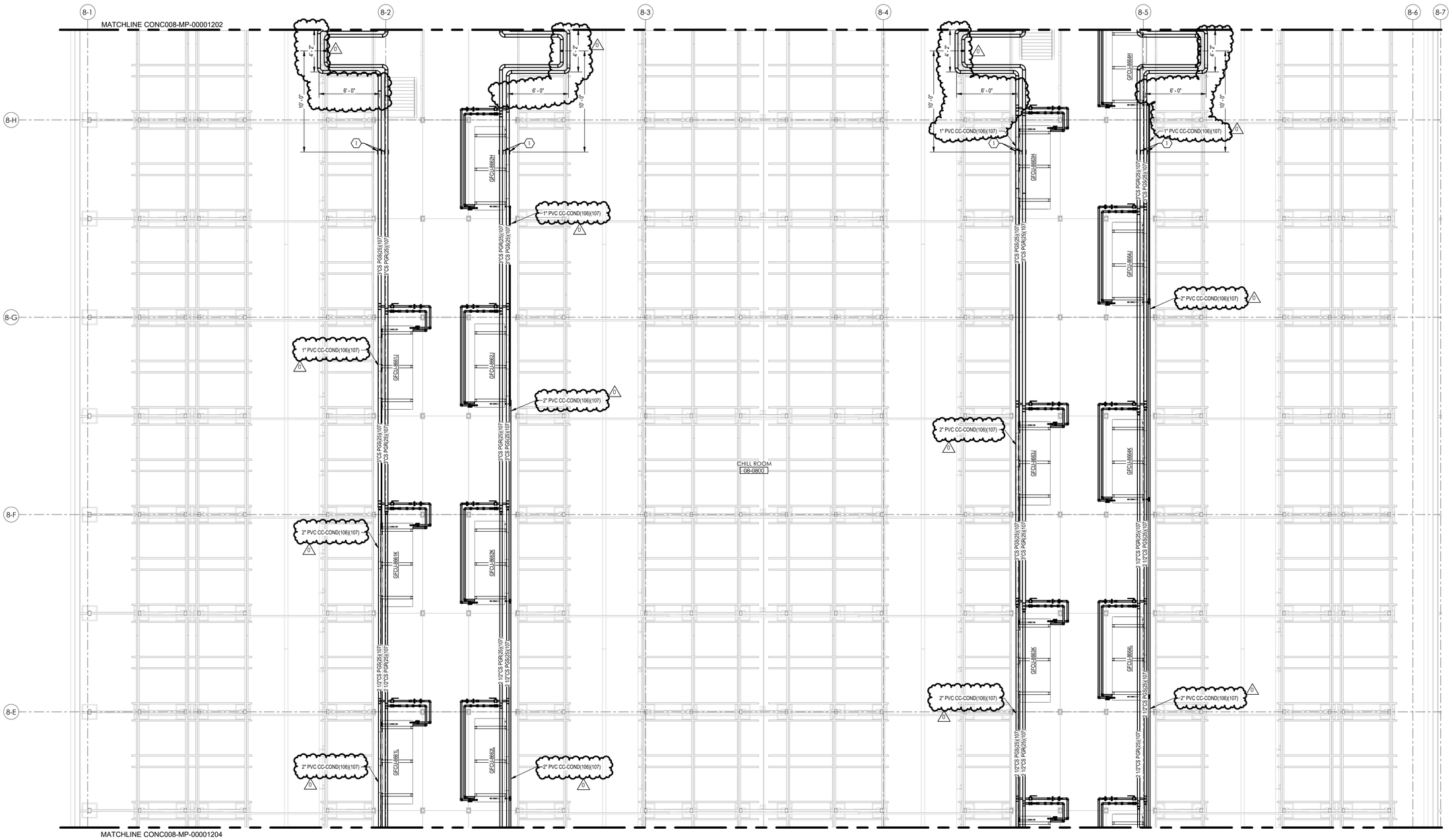


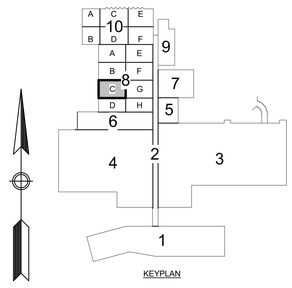
GENERAL NOTES:

G1 REFER TO PIPING DRAWINGS AND DETAILS FOR MORE INFORMATION ON PIPE ACCESSORIES, CONNECTION SIZES, ETC.

G2 COORDINATE PIPING SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

KEYED NOTES:

1 PROVIDE PIPE GUIDES ON GLYCOL PIPING AT 10'-0" FROM CENTER OF EXPANSION LOOP. REFER TO DETAIL 'B' ON SHEET CONC010-SF-00005001.



KEYPLAN

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER JASON M ANN
3-3-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
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Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

INTERIOR SERVICE PIPING B8/LEVEL 12 CATWALK

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

CONFIDENTIAL INFORMATION

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 12/CW
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID	CCI CODE: YELLOW
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	PROJECT NAME: CONC-300-5983
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MP-00001203	MERIDIAN REV
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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8-1 8-2 8-3 8-4 8-5 8-6 8-7

MATCHLINE CONC008-MP-00001203

8-D 8-C 8-B 8-A

CHILL ROOM
08-0800

2" PVC CC-COND(106)(107)
2" PVC CC-COND(106)(107) DN
1 1/4"CS PGR(25)(107)
1 1/4"CS PGS(25)(107)
2"CS PGR(25)(107)
2"CS PGS(25)(107)

GFCU-8661M GFCU-8662M GFCU-8663L GFCU-8664M
GFCU-8661N GFCU-8662N GFCU-8663M GFCU-8664N
GFCU-8661P GFCU-8662P GFCU-8663N GFCU-8664P
GFCU-8661Q GFCU-8662Q GFCU-8663P GFCU-8664Q

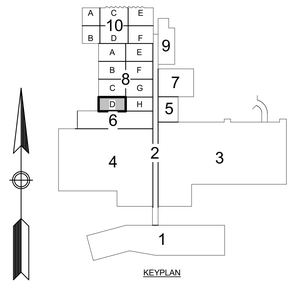
GENERAL NOTES:

G1 REFER TO PIPING DRAWINGS AND DETAILS FOR MORE INFORMATION ON PIPE ACCESSORIES, CONNECTION SIZES, ETC.

G2 COORDINATE PIPING SUPPORTS WITH ENGINEERED PRODUCTS STRUCTURAL ENGINEER FABRICATION DRAWINGS.

KEYED NOTES:

1 PROVIDE PIPE ANCHOR AS INDICATED. COORDINATE EXACT LOCATION WITH ENGINEERED PRODUCT STRUCTURAL ENGINEER. REFER TO DETAIL 'C' ON SHEET CONC010-SF-00005001.



KEYPLAN

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER JASON M MAY 043024
03-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
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317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

INTERIOR SERVICE PIPING B8/LEVEL 12 CATWALK

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: 12/CW
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID	CCI CODE: YELLOW
PROJECT NAME: CONC-300-5983			
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC008-MP-00001204	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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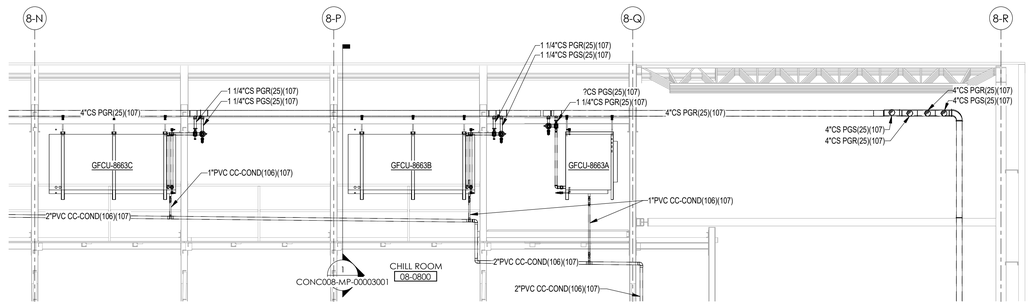
1 SECTION
SCALE: 1/4" = 1'-0"



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

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043224 JASON M MAY
3-3-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

INTERIOR SERVICE PIPING B8 SECTIONS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE			EDIFICE/BUILDING: CONC008	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC008-MP-00003001	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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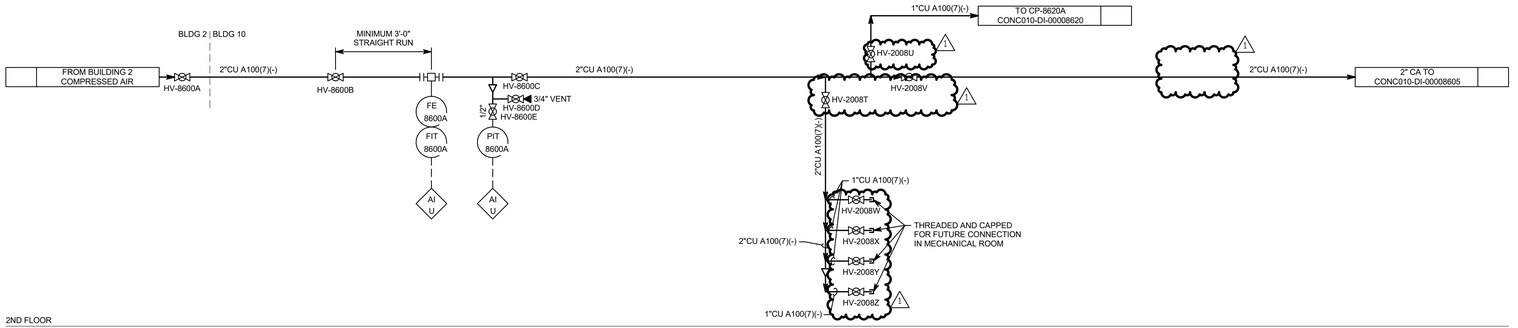

2ND FLOOR

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NORTH CAROLINA PROFESSIONAL SEAL 049649 ENGINEER JASON M BIRT
11-30-23

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

COMPRESSED AIR P&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW / PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION / DRAWING SCALE: None
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID / MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-DI-00008600
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID	

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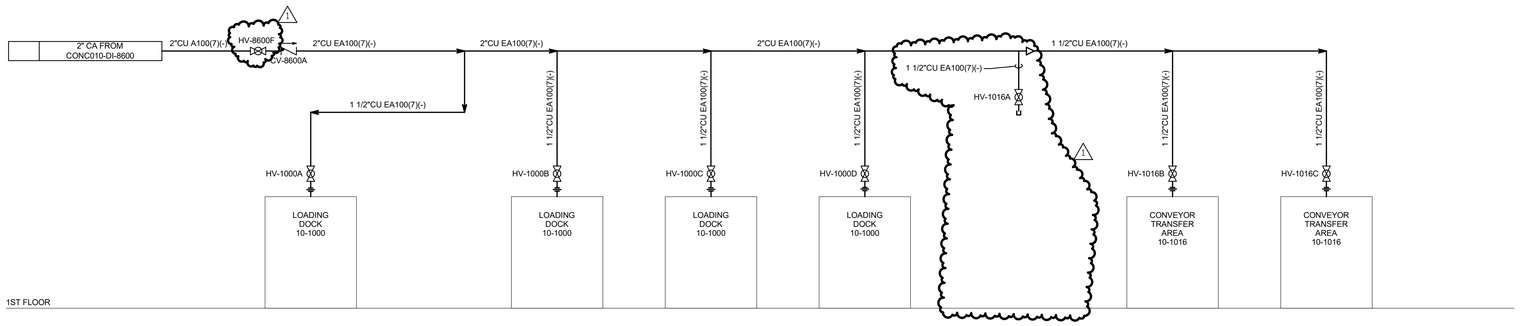

NORTH CAROLINA PROFESSIONAL SEAL 043836 ENGINEER JOSEPH M MEYER 12-13-2024

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317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

EQUIPMENT AIR P&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-08	N/A	13-Feb-2024
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE			EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A	
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983	
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: None	
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID		MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-DI-00008605		
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID			

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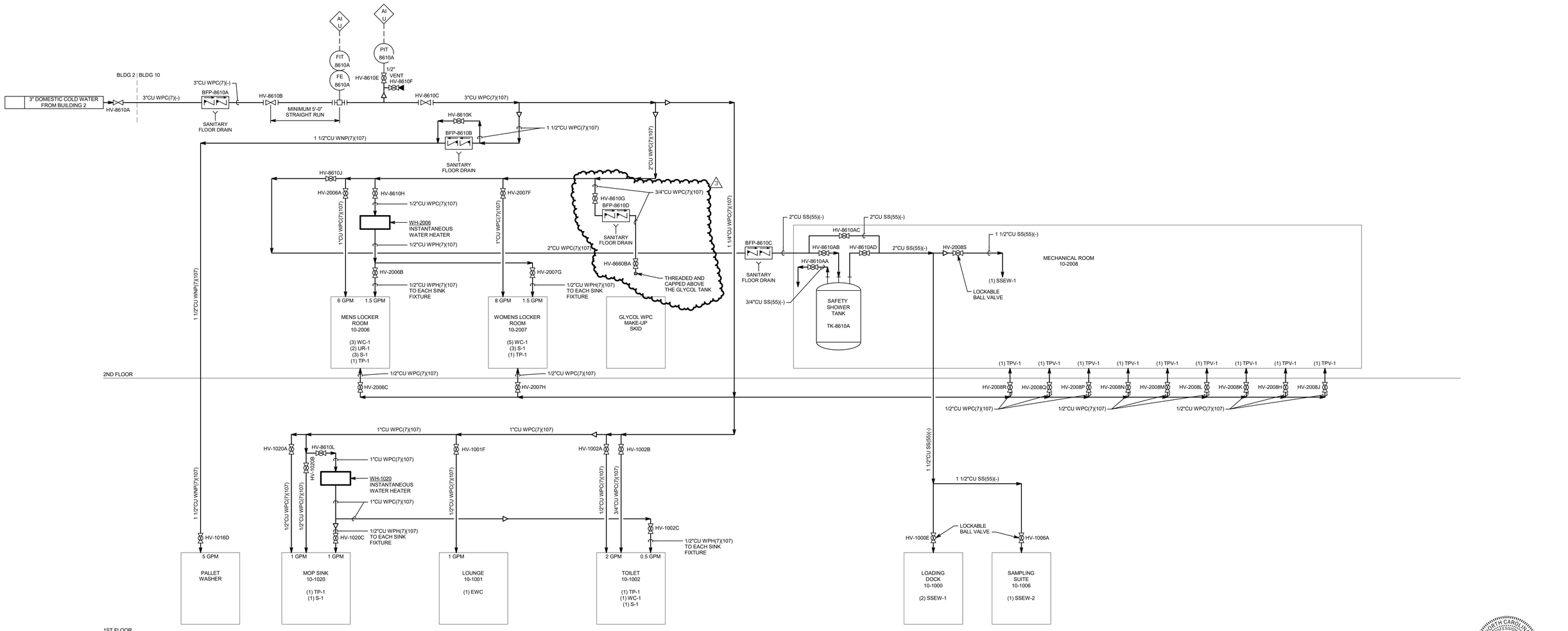

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Lilly U.S.A.

DOMESTIC COLD WATER P&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
3	ALL	BULLETIN-08	N/A	13-Feb-2024
2	ALL	BULLETIN-04	N/A	23-Aug-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: None
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-DI-00008610
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID	

NORTH CAROLINA PROFESSIONAL SEAL 043684 ENGINEER JASON M ARY 13-2024

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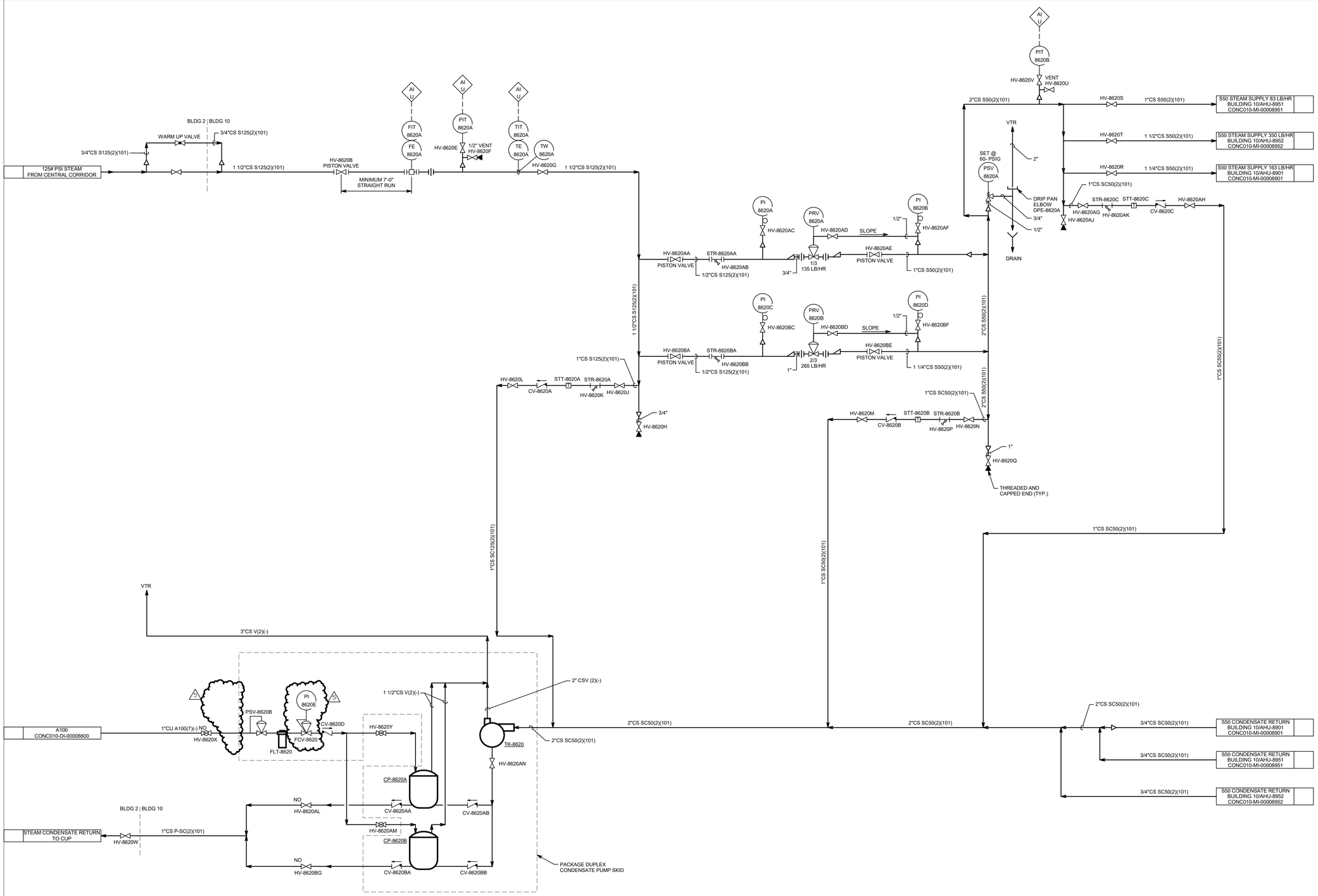

SEAL 042878 NORTH CAROLINA PROFESSIONAL Engineer JASON M. ARY 13-2024

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North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

STEAM P&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
5	ALL	BULLETIN-08	N/A	13-Feb-2024
4	ALL	BULLETIN-07	N/A	20-Dec-2023
3	ALL	BULLETIN-04	N/A	23-Aug-2023
2	ALL	BULLETIN-03	N/A	26-Jun-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023

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SYSTEM TYPE			EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: None
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-DI-00008620	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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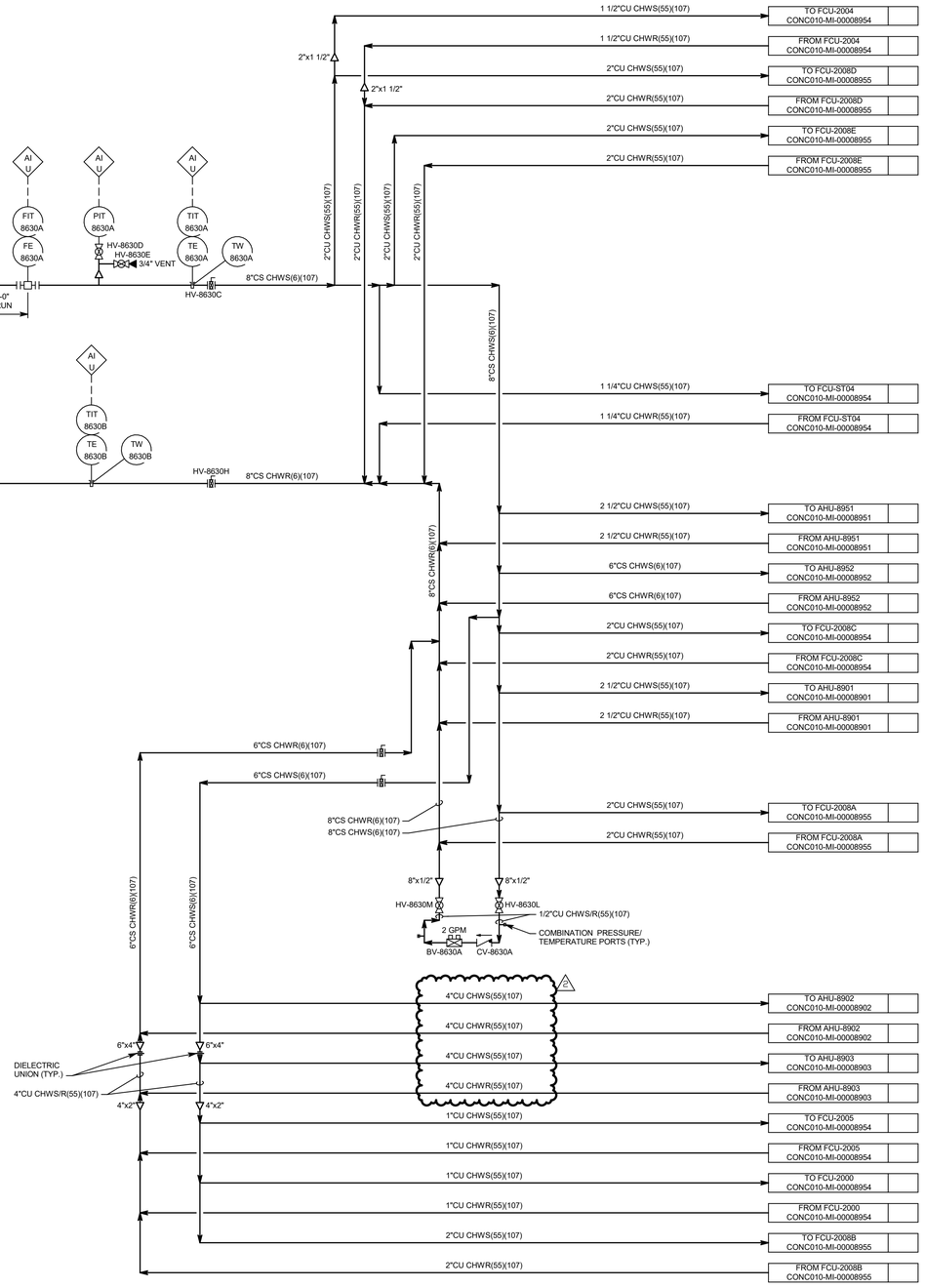

SEAL 040618 NORTH CAROLINA PROFESSIONAL ENGINEER

12-20-2023

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Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

CHILLED WATER P&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2	ALL	BULLETIN-07	N/A	20-Dec-2023
1	ALL	BULLETIN-04	N/A	23-Aug-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: None
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-DI-00008630	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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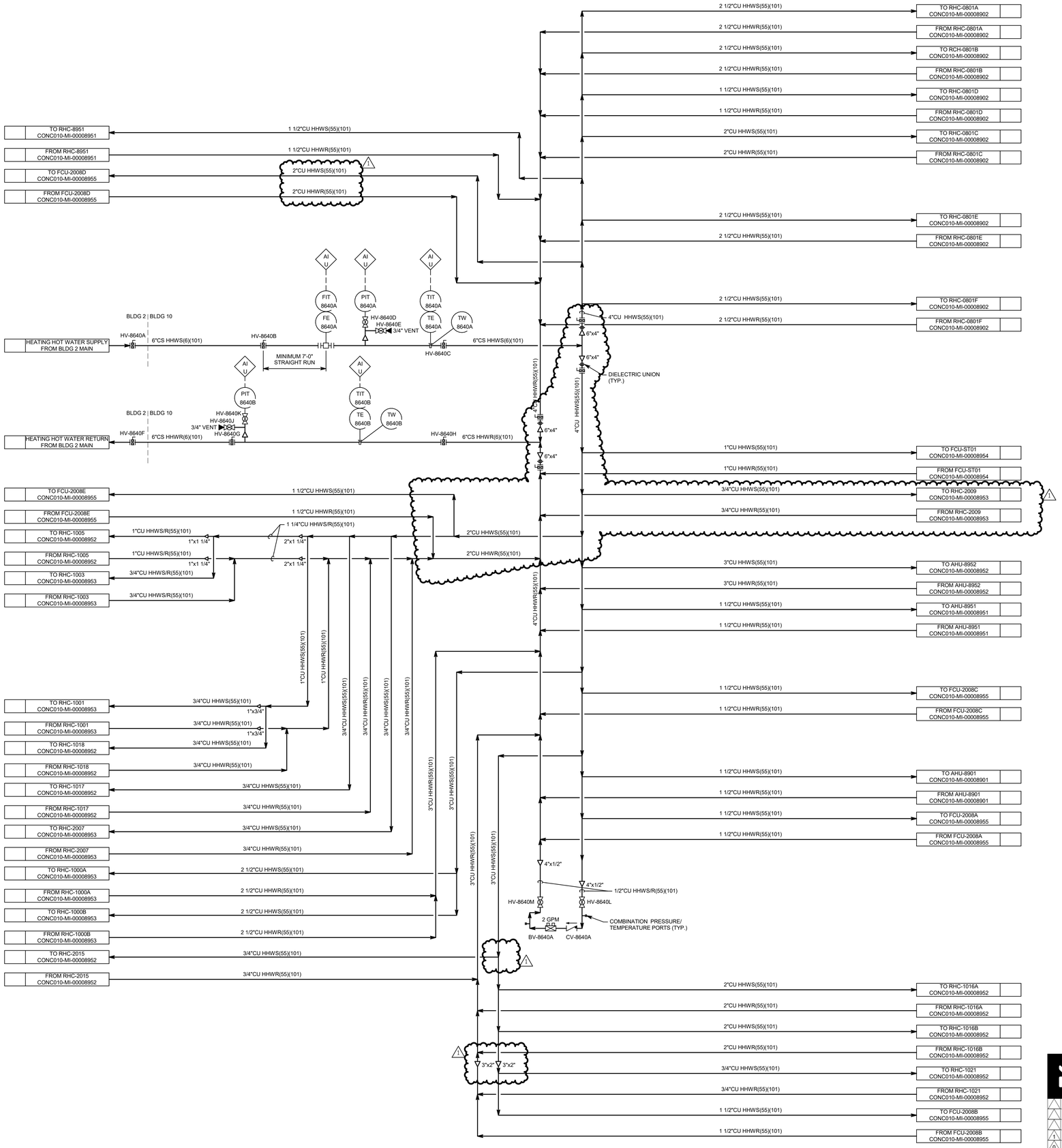

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Lilly U.S.A.

HEATING HOT WATER P&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-04	N/A	23-Aug-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC010	N/A
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	CCI CODE
DI	CONC	N/A	YELLOW
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION
No		CDAP	
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
Yes			
CRITICAL HSE		VENDOR	DOCUMENT ID
No			CONC010-DI-00008640
NON-CRITICAL		ENGINEERING AGENCY DOC ID	
No			

PROJECT NAME: CONC-300-5983
DRAWING SCALE: None
MERIDIAN REV:

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049818 ENGINEER JASON M MAY 25-2023

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ENGINEERS + ARCHITECTS
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Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

NOTES

1. PACKAGE SHOULD INCLUDE SYSTEM CONTROL PANEL FOR JCI METASYS AND CONTROL PANEL MOUNTING.
2. ALL VFD'S AND INSTRUMENTS SHALL BE WIRED TO THE MAIN JCI CONTROL TERMINATION PANEL BY THE PUMP SKID VENDOR. JCI WILL CONNECT TO THESE TERMINATION LOCATIONS AND PROVIDE ALL BMS PANELS AND HARDWARE NECESSARY FOR AUTOMATIC OPERATION.
3. TO BE ROUTED TO GLYCOL MAKEUP PUMP TANK. PENETRATE POLYETHYLENE TANK LID AND DISCHARGE TO INSIDE OF TANK.

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
4	ALL	BULLETIN-07	N/A	20-Dec-2023
3	ALL	BULLETIN-04	N/A	23-Aug-2023
2	ALL	BULLETIN-02	N/A	04-May-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CC/ CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: None
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-DI-00008660
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID	

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044858 JASON M. MIX 12-20-2023

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GLY SUPPLY TO GFCU CONC010-DI-00008660 — 4"CS PGS(25)(107)

GLY RETURN FROM GFCU CONC010-DI-00008660 — 4"CS PGR(25)(107)

BLDG 10 | BLDG 8

HV-8660KQ HPV

HV-8660KP HPV

BV-8660KD 2 GPM

CV-8660KD

COMBINATION PRESSURE/ TEMPERATURE PORT (TYP.)

HV-8660KN

HV-8660KM

1/2"CS PGS(25)(107)

1/2"CS PGR(25)(107)

1 1/4"CS PGR(25)(107)

1 1/4"CS PGS(25)(107)

2"CS PGR(25)(107)

2"CS PGS(25)(107)

2 1/2"CS PGR(25)(107)

2 1/2"CS PGS(25)(107)

3"CS PGR(25)(107)

3"CS PGS(25)(107)

4"CS PGR(25)(107)

4"CS PGS(25)(107)

1 1/4" CAPPED FOR FUTURE RECIRCULATION PUMP (TYP.)

LPD

TYV = AO/B, TCV, M

HV-8661AA	HV-8661AB	STR-8661AA	HV-8661AC	HV-8661AE	HV-8661AD	TYV 8661A	TCV 8661A	GFCU-8661A
HV-8661BA	HV-8661BB	STR-8661BA	HV-8661BC	HV-8661BE	HV-8661BD	TYV 8661B	TCV 8661B	GFCU-8661B
HV-8661CA	HV-8661CB	STR-8661CA	HV-8661CC	HV-8661CE	HV-8661CD	TYV 8661C	TCV 8661C	GFCU-8661C
HV-8661DA	HV-8661DB	STR-8661DA	HV-8661DC	HV-8661DE	HV-8661DD	TYV 8661D	TCV 8661D	GFCU-8661D
HV-8661EA	HV-8661EB	STR-8661EA	HV-8661EC	HV-8661EE	HV-8661ED	TYV 8661E	TCV 8661E	GFCU-8661E
HV-8661FA	HV-8661FB	STR-8661FA	HV-8661FC	HV-8661FE	HV-8661FD	TYV 8661F	TCV 8661F	GFCU-8661F
HV-8661GA	HV-8661GB	STR-8661GA	HV-8661GC	HV-8661GE	HV-8661GD	TYV 8661G	TCV 8661G	GFCU-8661G
HV-8661HA	HV-8661HB	STR-8661HA	HV-8661HC	HV-8661HE	HV-8661HD	TYV 8661H	TCV 8661H	GFCU-8661H
HV-8661QA	HV-8661QB	STR-8661QA	HV-8661QC	HV-8661QE	HV-8661QD	TYV 8661Q	TCV 8661Q	GFCU-8661Q
HV-8661PA	HV-8661PB	STR-8661PA	HV-8661PC	HV-8661PE	HV-8661PD	TYV 8661P	TCV 8661P	GFCU-8661P
HV-8661NA	HV-8661NB	STR-8661NA	HV-8661NC	HV-8661NE	HV-8661ND	TYV 8661N	TCV 8661N	GFCU-8661N
HV-8661MA	HV-8661MB	STR-8661MA	HV-8661MC	HV-8661ME	HV-8661MD	TYV 8661M	TCV 8661M	GFCU-8661M
HV-8661LA	HV-8661LB	STR-8661LA	HV-8661LC	HV-8661LE	HV-8661LD	TYV 8661L	TCV 8661L	GFCU-8661L
HV-8661KA	HV-8661KB	STR-8661KA	HV-8661KC	HV-8661KE	HV-8661KD	TYV 8661K	TCV 8661K	GFCU-8661K
HV-8661JA	HV-8661JB	STR-8661JA	HV-8661JC	HV-8661JE	HV-8661JD	TYV 8661J	TCV 8661J	GFCU-8661J

SEAL 040616 NORTH CAROLINA PROFESSIONAL ENGINEER BRIAN M. MAY 12-20-2023

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2	ALL	BULLETIN-07	N/A	20-Dec-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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Indianapolis, Indiana 46225
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SYSTEM TYPE		EDIFICE/BUILDING CONC010	LEVEL/FLOOR N/A
SUB DISCIPLINE DI	LOCATION CODE CONC	LOCATION/GRID N/A	CCI CODE YELLOW	PROJECT NAME CONC-300-5983
CRITICAL QUALITY No	ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE None
CRITICAL BUSINESS Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No	VENDOR	DOCUMENT ID CONC010-DI-00008661	
NON-CRITICAL No	ENGINEERING AGENCY DOC ID		

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GLY SUPPLY TO GFCU CONC010-DI-00008660

GLY RETURN FROM GFCU CONC010-DI-00008660

BLDG 10 | BLDG 8

4"CS PGS(25)(107)

4"CS PGR(25)(107)

HV-8660KS HPV

HV-8660KR HPV

BV-8660KC 2 GPM

CV-8660KC

COMBINATION PRESSURE/ TEMPERATURE PORT (TYP.)

HV-8660KL

HV-8660KK

1/2"CS PGS(25)(107)

1/2"CS PGR(25)(107)

1 1/4"CS PGR(25)(107)

1 1/4"CS PGS(25)(107)

2"CS PGR(25)(107)

2"CS PGS(25)(107)

2 1/2"CS PGR(25)(107)

2 1/2"CS PGS(25)(107)

3"CS PGR(25)(107)

3"CS PGS(25)(107)

1 1/4" CAPPED FOR FUTURE RECIRCULATION PUMP (TYP.)

HV-8662AA	HV-8662AB	HV-8662AC	STR-8662AA	8662A	HV-8662AD	HV-8662AE	GFCU-8662A
HV-8662BA	HV-8662BB	HV-8662BC	STR-8662BA	8662B	HV-8662BD	HV-8662BE	GFCU-8662B
HV-8662CA	HV-8662CB	HV-8662CC	STR-8662CA	8662C	HV-8662CD	HV-8662CE	GFCU-8662C
HV-8662DA	HV-8662DB	HV-8662DC	STR-8662DA	8662D	HV-8662DD	HV-8662DE	GFCU-8662D
HV-8662EA	HV-8662EB	HV-8662EC	STR-8662EA	8662E	HV-8662ED	HV-8662EE	GFCU-8662E
HV-8662FA	HV-8662FB	HV-8662FC	STR-8662FA	8662F	HV-8662FD	HV-8662FE	GFCU-8662F
HV-8662GA	HV-8662GB	HV-8662GC	STR-8662GA	8662G	HV-8662GD	HV-8662GE	GFCU-8662G
HV-8662HA	HV-8662HB	HV-8662HC	STR-8662HA	8662H	HV-8662HD	HV-8662HE	GFCU-8662H
HV-8662QA	HV-8662QB	HV-8662QC	STR-8662QA	8662Q	HV-8662QD	HV-8662QE	GFCU-8662Q
HV-8662PA	HV-8662PB	HV-8662PC	STR-8662PA	8662P	HV-8662PD	HV-8662PE	GFCU-8662P
HV-8662NA	HV-8662NB	HV-8662NC	STR-8662NA	8662N	HV-8662ND	HV-8662NE	GFCU-8662N
HV-8662MA	HV-8662MB	HV-8662MC	STR-8662MA	8662M	HV-8662MD	HV-8662ME	GFCU-8662M
HV-8662LA	HV-8662LB	HV-8662LC	STR-8662LA	8662L	HV-8662LD	HV-8662LE	GFCU-8662L
HV-8662KA	HV-8662KB	HV-8662KC	STR-8662KA	8662K	HV-8662KD	HV-8662KE	GFCU-8662K
HV-8662JA	HV-8662JB	HV-8662JC	STR-8662JA	8662J	HV-8662JD	HV-8662JE	GFCU-8662J

AO B | TYV | TCV | M | LPD | HPV

SEAL 047618 ENGINEER ERICSON MIRANDA 12-20-2023

MUSSETT NICHOLAS
ASSOCIATES
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502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

GLYCOL DISTRIBUTION P&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-07	N/A	20-Dec-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING CONC010	LEVEL/FLOOR N/A
SUB DISCIPLINE DI	LOCATION CODE CONC	LOCATION/GRID N/A	CCI CODE YELLOW	PROJECT NAME CONC-300-5983
CRITICAL QUALITY No	ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE None
CRITICAL BUSINESS Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No	VENDOR	DOCUMENT ID CONC010-DI-00008662	
NON-CRITICAL No	ENGINEERING AGENCY DOC ID		

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GLY SUPPLY TO GFCU CONC010-DI-00008660

GLY RETURN FROM GFCU CONC010-DI-00008660

4"CS PGS(25)(107)

4"CS PGR(25)(107)

BLDG 10 | BLDG 8

HV-8660KU HPV

HV-8660KT HPV

4"CS PGR(25)(107)
4"CS PGS(25)(107)

3"CS PGR(25)(107)
3"CS PGS(25)(107)

2 1/2"CS PGR(25)(107)
2 1/2"CS PGS(25)(107)

3"CS PGR(25)(107)

3"CS PGS(25)(107)

BV-8660KB 2 GPM

CV-8660KB

COMBINATION PRESSURE/ TEMPERATURE PORT (TYP.)

HV-8660KJ

HV-8660KH

1/2"CS PGS(25)(107)
1/2"CS PGR(25)(107)

1 1/4"CS PGR(25)(107)
1 1/4"CS PGS(25)(107)

2"CS PGR(25)(107)
2"CS PGS(25)(107)

GFCU-8663A

HV-8663AC HPV
STR-8663AA
HV-8663AB
1 1/4"CS PGS(25)(107)
HV-8663AA
TYV 8663A
AO B
1 1/4" CAPPED FOR FUTURE RECIRCULATION PUMP (TYP.)
1 1/4"CS PGR(25)(107)
HV-8663AE
TCV 8663A
HV-8663AD LPD

GFCU-8663B

HV-8663BC HPV
STR-8663BA
HV-8663BB
1 1/4"CS PGS(25)(107)
HV-8663BA
TYV 8663B
AO B
1 1/4"CS PGR(25)(107)
HV-8663BE
TCV 8663B
HV-8663BD LPD

GFCU-8663C

HV-8663CC HPV
STR-8663CA
HV-8663CB
1 1/4"CS PGS(25)(107)
HV-8663CA
TYV 8663C
AO B
1 1/4"CS PGR(25)(107)
HV-8663CE
TCV 8663C
HV-8663CD LPD

GFCU-8663D

HV-8663DC HPV
STR-8663DA
HV-8663DB
1 1/4"CS PGS(25)(107)
HV-8663DA
TYV 8663D
AO B
1 1/4"CS PGR(25)(107)
HV-8663DE
TCV 8663D
HV-8663DD LPD

GFCU-8663E

HV-8663EC HPV
STR-8663EA
HV-8663EB
1 1/4"CS PGS(25)(107)
HV-8663EA
TYV 8663E
AO B
1 1/4"CS PGR(25)(107)
HV-8663EE
TCV 8663E
HV-8663ED LPD

GFCU-8663F

HV-8663FC HPV
STR-8663FA
HV-8663FB
1 1/4"CS PGS(25)(107)
HV-8663FA
TYV 8663F
AO B
1 1/4"CS PGR(25)(107)
HV-8663FE
TCV 8663F
HV-8663FD LPD

GFCU-8663G

HV-8663GC HPV
STR-8663GA
HV-8663GB
1 1/4"CS PGS(25)(107)
HV-8663GA
TYV 8663G
AO B
1 1/4"CS PGR(25)(107)
HV-8663GE
TCV 8663G
HV-8663GD LPD

GFCU-8663H

HV-8663HC HPV
STR-8663HA
HV-8663HB
1 1/4"CS PGS(25)(107)
HV-8663HA
TYV 8663H
AO B
1 1/4"CS PGR(25)(107)
HV-8663HE
TCV 8663H
HV-8663HD LPD

GFCU-8663P

HV-8663PC HPV
STR-8663PA
HV-8663PB
1 1/4"CS PGS(25)(107)
HV-8663PA
TYV 8663P
AO B
1 1/4"CS PGR(25)(107)
HV-8663PE
TCV 8663P
HV-8663PD LPD

GFCU-8663N

HV-8663NC HPV
STR-8663NA
HV-8663NB
1 1/4"CS PGS(25)(107)
HV-8663NA
TYV 8663N
AO B
1 1/4"CS PGR(25)(107)
HV-8663NE
TCV 8663N
HV-8663ND LPD

GFCU-8663M

HV-8663MC HPV
STR-8663MA
HV-8663MB
1 1/4"CS PGS(25)(107)
HV-8663MA
TYV 8663M
AO B
1 1/4"CS PGR(25)(107)
HV-8663ME
TCV 8663M
HV-8663MD LPD

GFCU-8663L

HV-8663LC HPV
STR-8663LA
HV-8663LB
1 1/4"CS PGS(25)(107)
HV-8663LA
TYV 8663L
AO B
1 1/4"CS PGR(25)(107)
HV-8663LE
TCV 8663L
HV-8663LD LPD

GFCU-8663K

HV-8663KC HPV
STR-8663KA
HV-8663KB
1 1/4"CS PGS(25)(107)
HV-8663KA
TYV 8663K
AO B
1 1/4"CS PGR(25)(107)
HV-8663KE
TCV 8663K
HV-8663KD LPD

GFCU-8663J

HV-8663JC HPV
STR-8663JA
HV-8663JB
1 1/4"CS PGS(25)(107)
HV-8663JA
TYV 8663J
AO B
1 1/4"CS PGR(25)(107)
HV-8663JE
TCV 8663J
HV-8663JD LPD

NORTH CAROLINA PROFESSIONAL SEAL 047618 ENGINEER JASON M. MUSSETT

12-20-2023

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North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

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REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-07	N/A	20-Dec-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING CONC010	LEVEL/FLOOR N/A
SUB DISCIPLINE DI	LOCATION CODE CONC	LOCATION/GRID N/A	CCI CODE YELLOW	PROJECT NAME CONC-300-5983
CRITICAL QUALITY No		ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE None
CRITICAL BUSINESS Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No		VENDOR	DOCUMENT ID CONC010-DI-00008663	
NON-CRITICAL No		ENGINEERING AGENCY DOC ID		

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GLY SUPPLY TO GFCU CONC010-DI-00008660 — 4"CS PGS(25)(107)

GLY RETURN FROM GFCU CONC010-DI-00008660 — 4"CS PGR(25)(107)

BLDG 10 | BLDG 8

HV-8660KW HPV

HV-8660KV HPV

4"CS PGR(25)(107)
4"CS PGS(25)(107)

3"CS PGR(25)(107)
3"CS PGS(25)(107)

2 1/2"CS PGR(25)(107)
2 1/2"CS PGS(25)(107)

2"CS PGR(25)(107)
2"CS PGS(25)(107)

3"CS PGR(25)(107)

3"CS PGS(25)(107)

PRESSURE DEPENDENT
(CHARACTERIZED BALL OR GLOBE TYPE)

AO B — FCV 8660-KA

COMBINATION PRESSURE/ TEMPERATURE PORT (TYP.)

HV-8660KA — 72 GPM — STR-8660KA — HV-8660KE

3/4" — HV-8660KB — AI B — HV-8660KC — 3/4" — HV-8660KD

PDT 8660-KA

2"CS PGS(25)(107)

HV-8660KF — 1/2"CS PGR(25)(107) — CV-8660KA — BV-8660KA 2 GPM — HV-8660KG

GFCU-8664A

HV-8664AC HPV

HV-8664AA — 1 1/4"CS PGS(25)(107) — STR-8664AA — HV-8664AB

TYV 8664A — AO B — 2" — M

1 1/4" CAPPED FOR FUTURE RECIRCULATION PUMP (TYP.)

HV-8664AE — 1 1/4"CS PGR(25)(107) — HV-8664AD LPD

TCV 8664A

GFCU-8664B

HV-8664BC HPV

HV-8664BA — 1 1/4"CS PGS(25)(107) — STR-8664BA — HV-8664BB

TYV 8664B — AO B — 2" — M

HV-8664BE — 1 1/4"CS PGR(25)(107) — HV-8664BD LPD

TCV 8664B

GFCU-8664C

HV-8664CC HPV

HV-8664CA — 1 1/4"CS PGS(25)(107) — STR-8664CA — HV-8664CB

TYV 8664C — AO B — 2" — M

HV-8664CE — 1 1/4"CS PGR(25)(107) — HV-8664CD LPD

TCV 8664C

GFCU-8664D

HV-8664DC HPV

HV-8664DA — 1 1/4"CS PGS(25)(107) — STR-8664DA — HV-8664DB

TYV 8664D — AO B — 2" — M

HV-8664DE — 1 1/4"CS PGR(25)(107) — HV-8664DD LPD

TCV 8664D

GFCU-8664E

HV-8664EC HPV

HV-8664EA — 1 1/4"CS PGS(25)(107) — STR-8664EA — HV-8664EB

TYV 8664E — AO B — 2" — M

HV-8664EE — 1 1/4"CS PGR(25)(107) — HV-8664ED LPD

TCV 8664E

GFCU-8664F

HV-8664FC HPV

HV-8664FA — 1 1/4"CS PGS(25)(107) — STR-8664FA — HV-8664FB

TYV 8664F — AO B — 2" — M

HV-8664FE — 1 1/4"CS PGR(25)(107) — HV-8664FD LPD

TCV 8664F

GFCU-8664G

HV-8664GC HPV

HV-8664GA — 1 1/4"CS PGS(25)(107) — STR-8664GA — HV-8664GB

TYV 8664G — AO B — 2" — M

HV-8664GE — 1 1/4"CS PGR(25)(107) — HV-8664GD LPD

TCV 8664G

GFCU-8664H

HV-8664HC HPV

HV-8664HA — 1 1/4"CS PGS(25)(107) — STR-8664HA — HV-8664HB

TYV 8664H — AO B — 2" — M

HV-8664HE — 1 1/4"CS PGR(25)(107) — HV-8664HD LPD

TCV 8664H

GFCU-8664Q

HV-8664QC HPV

HV-8664QA — 1 1/4"CS PGS(25)(107) — STR-8664QA — HV-8664QB

TYV 8664Q — AO B — 2" — M

HV-8664QE — 1 1/4"CS PGR(25)(107) — HV-8664QD LPD

TCV 8664Q

GFCU-8664P

HV-8664PC HPV

HV-8664PA — 1 1/4"CS PGS(25)(107) — STR-8664PA — HV-8664PB

TYV 8664P — AO B — 2" — M

HV-8664PE — 1 1/4"CS PGR(25)(107) — HV-8664PD LPD

TCV 8664P

GFCU-8664N

HV-8664NC HPV

HV-8664NA — 1 1/4"CS PGS(25)(107) — STR-8664NA — HV-8664NB

TYV 8664N — AO B — 2" — M

HV-8664NE — 1 1/4"CS PGR(25)(107) — HV-8664ND LPD

TCV 8664N

GFCU-8664M

HV-8664MC HPV

HV-8664MA — 1 1/4"CS PGS(25)(107) — STR-8664MA — HV-8664MB

TYV 8664M — AO B — 2" — M

HV-8664ME — 1 1/4"CS PGR(25)(107) — HV-8664MD LPD

TCV 8664M

GFCU-8664L

HV-8664LC HPV

HV-8664LA — 1 1/4"CS PGS(25)(107) — STR-8664LA — HV-8664LB

TYV 8664L — AO B — 2" — M

HV-8664LE — 1 1/4"CS PGR(25)(107) — HV-8664LD LPD

TCV 8664L

GFCU-8664K

HV-8664KC HPV

HV-8664KA — 1 1/4"CS PGS(25)(107) — STR-8664KA — HV-8664KB

TYV 8664K — AO B — 2" — M

HV-8664KE — 1 1/4"CS PGR(25)(107) — HV-8664KD LPD

TCV 8664K

GFCU-8664J

HV-8664JC HPV

HV-8664JA — 1 1/4"CS PGS(25)(107) — STR-8664JA — HV-8664JB

TYV 8664J — AO B — 2" — M

HV-8664JE — 1 1/4"CS PGR(25)(107) — HV-8664JD LPD

TCV 8664J

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049636 JASON M. MUSSETT — 12-20-2023

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North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

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REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2	ALL	BULLETIN-07	N/A	20-Dec-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: DI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-300-5983			
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: None
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-DI-00008664	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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HVAC ZONES

- AHU-8951 - GRADE C& D
- AHU-8952 - CNC
- AHU-8952 - NC
- FCU-ST01 - NC
- ELECTRIC UNIT HEATER UH-1015-NC
- ELECTRIC UNIT HEATER UH-1019-NC

GENERAL NOTES:

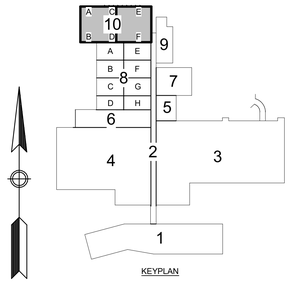
G1 ALL ROOMS SERVED BY AHU-8951 WILL HAVE TERMINAL HEPA DIFFUSERS AND LOW WALL RETURN/EXHAUST REGISTERS WITH VOLUME DAMPERS.

KEYED NOTES:

1 CRITICAL PROCESS CARRIED OUT INSIDE BIOLOGICAL SAFETY CABINETS.

2 REFERENCE STATIC PRESSURE SHALL BE MEASURED AT CONVEYOR TRANSFER AREA.

3 REFERENCE STATIC PRESSURE SHALL BE MEASURED AT LOADING DOCK.



KEYPLAN

NORTH CAROLINA PROFESSIONAL SEAL 043005 ENGINEER JASON MURRY 03-2023

MUSSETT NICHOLAS
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ENGINEERS + ARCHITECTS
502 South West Street
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317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B10/01 ZONING AND CLASSIFICATION

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-E:10-1 - 10-9	CGI CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 3/32" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MH-00001001	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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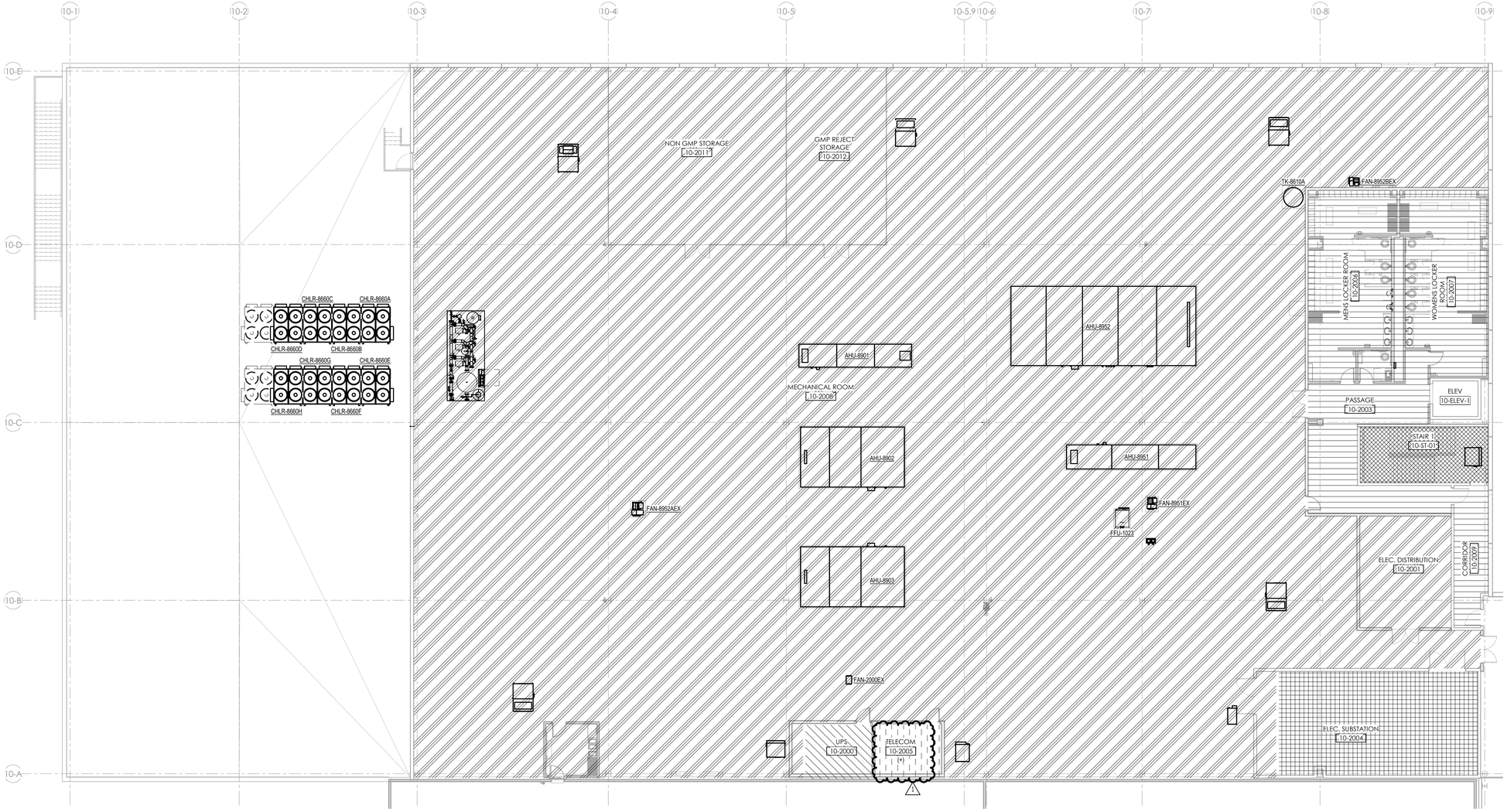
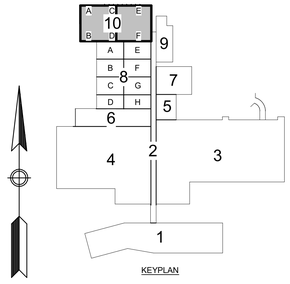


HVAC ZONES

- MECH 2008 - NC (FCU 2008A,B,C,D,E)
- AHU-8952 - NC
- FCU-ST01 - NC
- PARTIAL ROOF FOR CHILLER
- FCU-2005 - NC
- FCU-2000 - NC
- FCU-2004 - NC

NOTE:

(+) DENOTES MANUALLY BALANCED POSITIVE PRESSURIZATION RELATIVE TO ADJACENT AREA. PRESSURIZATION IS NOT MONITORED, BUT DESIGNED TO ROUGHLY 0.02" WC.



KEYPLAN

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-05	N/A	13-Oct-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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AIR HANDLING SYSTEMS B10/02 ZONING AND CLASSIFICATION

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 02
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-E:10-1 - 10-9	CCI CODE: YELLOW / PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 3/32" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MH-00001002	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

NORTH CAROLINA PROFESSIONAL SEAL 043644 ENGINEER JASON M MUSSETT
10-13-2023

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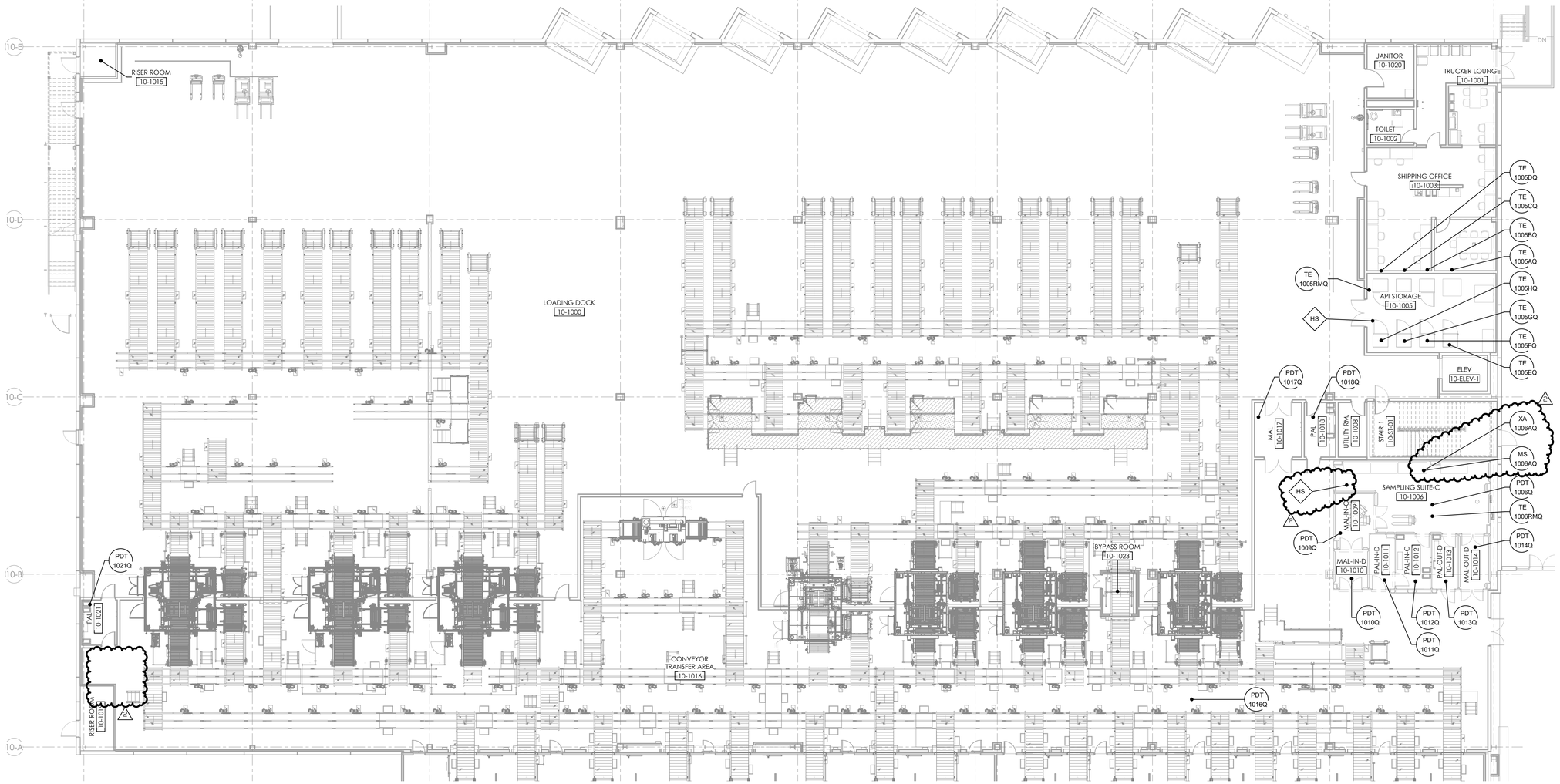
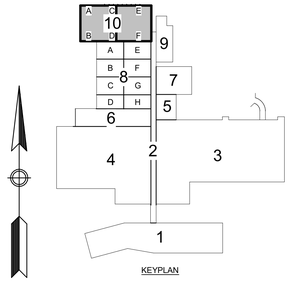
GENERAL NOTES:

G1 REFER TO QBMS MONITORING DIAGRAMS FOR MORE INFORMATION ON INSTRUMENTS.

G2 COORDINATE EXACT LOCATION OF QBMS MONITORING POINTS WITH ALL OTHER TRADES. CONFIRM FINAL LOCATION WITH OWNER.





KEYPLAN

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2	ALL	BULLETIN-05	N/A	13-Oct-2023
1	ALL	BULLETIN-02	N/A	04-May-2023
0	ALL	BULLETIN-01	N/A	30-Mar-2023

REVISIONS

CONFIDENTIAL INFORMATION

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Lilly U.S.A.

AIR HANDLING SYSTEMS B10/1 QBMS MONITORING

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-E:10-1 - 10-9	CCI CODE: YELLOW
PROJECT NAME: CONC-003-5983			
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 3/32" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MH-00001003	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043678 JASON MARK MUSSETT 10-13-2023

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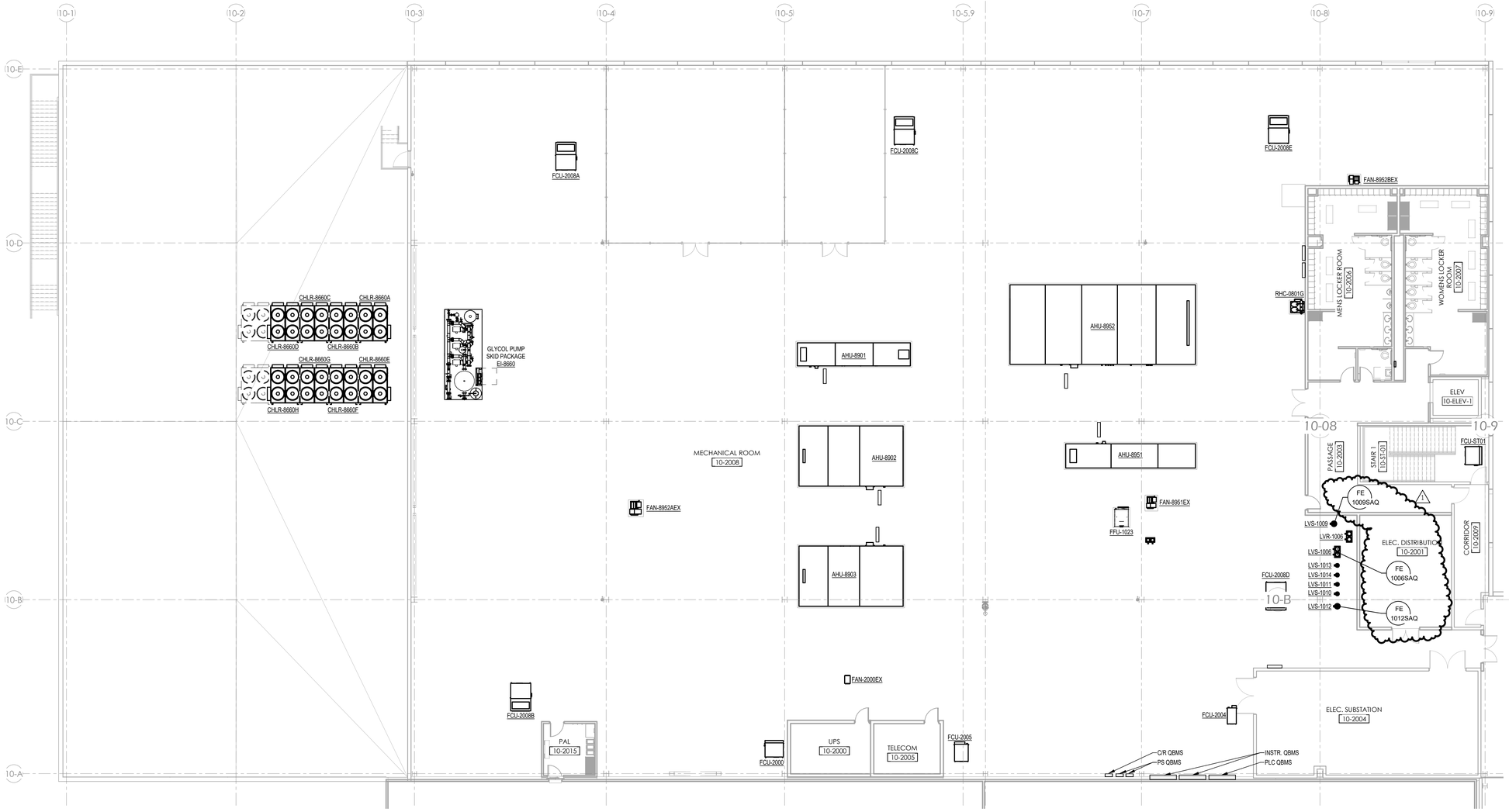
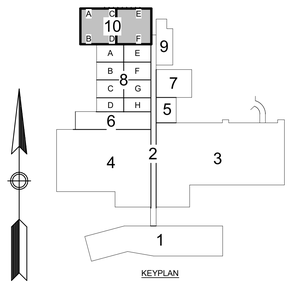
GENERAL NOTES:

G2 REFER TO QBMS MONITORING DIAGRAMS FOR MORE INFORMATION ON INSTRUMENTS.

G1 COORDINATE EXACT LOCATION OF QBMS MONITORING POINTS WITH ALL OTHER TRADES. CONFIRM FINAL LOCATION WITH OWNER.





KEYPLAN

SEAL 04-2014 ENGINEER JASON M ARP 04-4-2023

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AIR HANDLING SYSTEMS B10/2 QBMS MONITORING

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-02	N/A	04-May-2023
0	ALL	BULLETIN-01	N/A	30-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 02
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-E:10-1 - 10-9	CCI CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 3/32" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MH-00001004	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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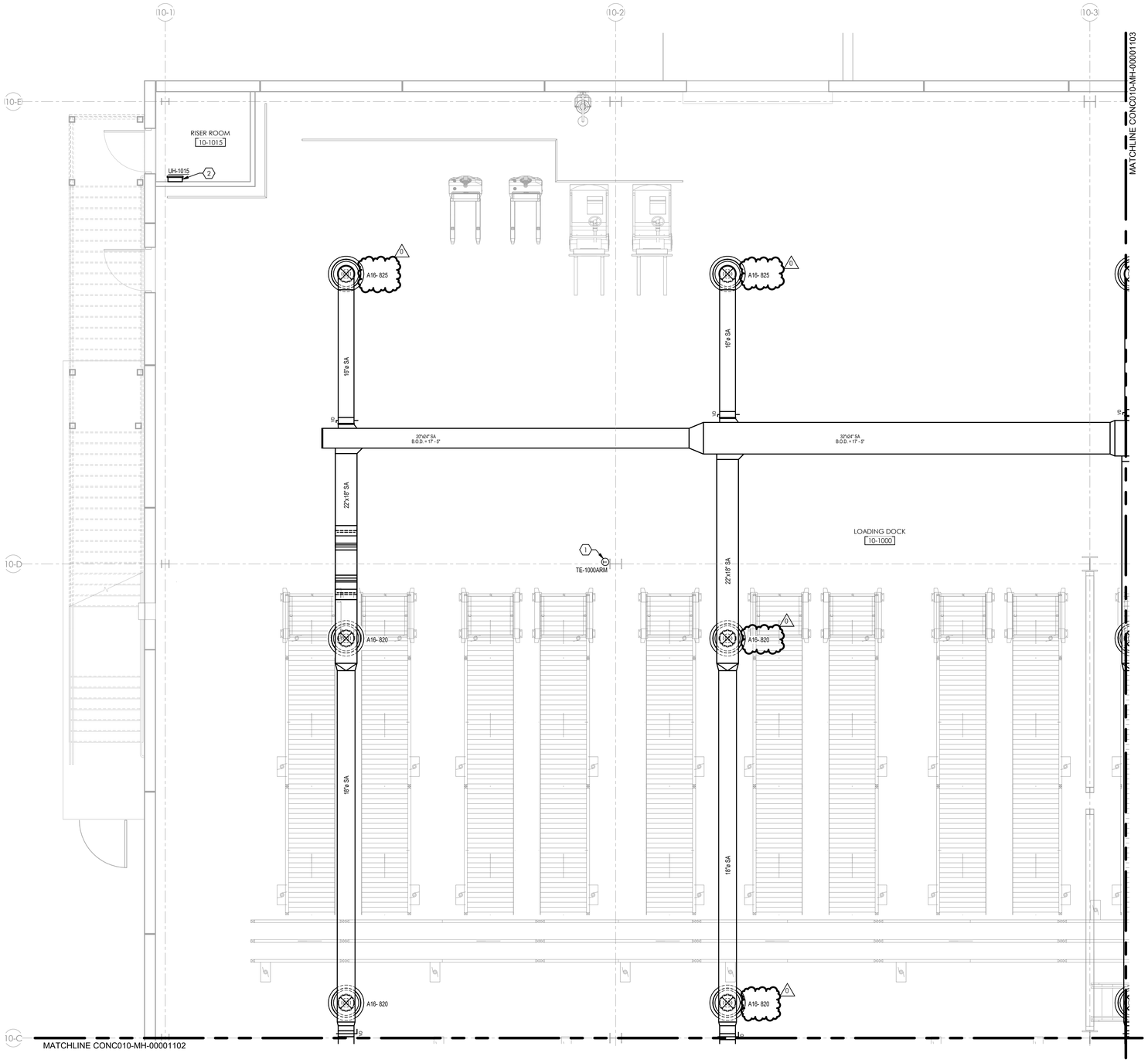


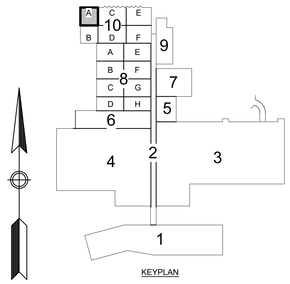
GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION FROM BELOW.

KEYED NOTES:

1 PROVIDE TEMPERATURE SENSOR AND ASSOCIATED CONTROL WIRING TO BMS.

2 PROVIDE ELECTRIC UNIT HEATER. COORDINATE FINAL LOCATION WITH RISER ROOM PIPING LAYOUT.



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043024 JASON M NIX 3-3-2023

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Lilly U.S.A.

AIR HANDLING SYSTEMS B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-C - 10-E:10-1 - 10-3	CC CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MH-00001101	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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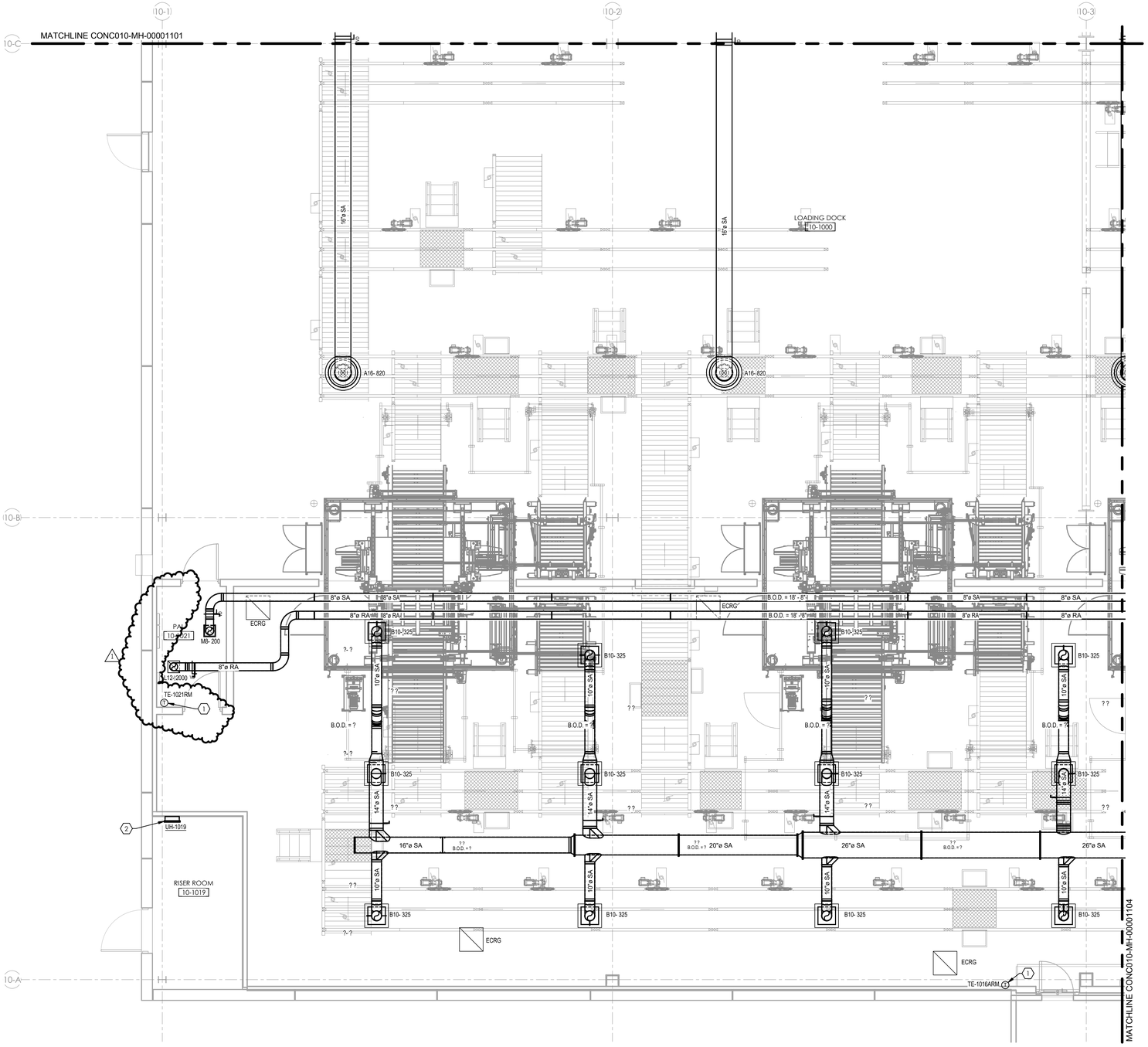


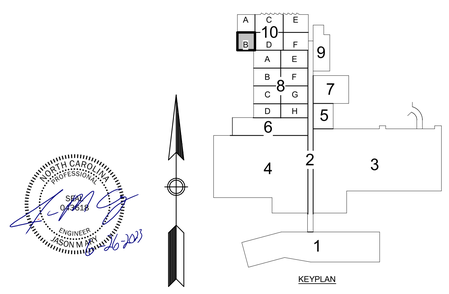
GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION FROM BELOW.

KEYED NOTES:

1 PROVIDE TEMPERATURE SENSOR AND ASSOCIATED CONTROL WIRING TO BMS.

2 PROVIDE ELECTRIC UNIT HEATER. COORDINATE FINAL LOCATION WITH RISER ROOM PIPING LAYOUT.



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Lilly U.S.A.

AIR HANDLING SYSTEMS B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-C:10-1 - 10-3	CCI CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MH-00001102	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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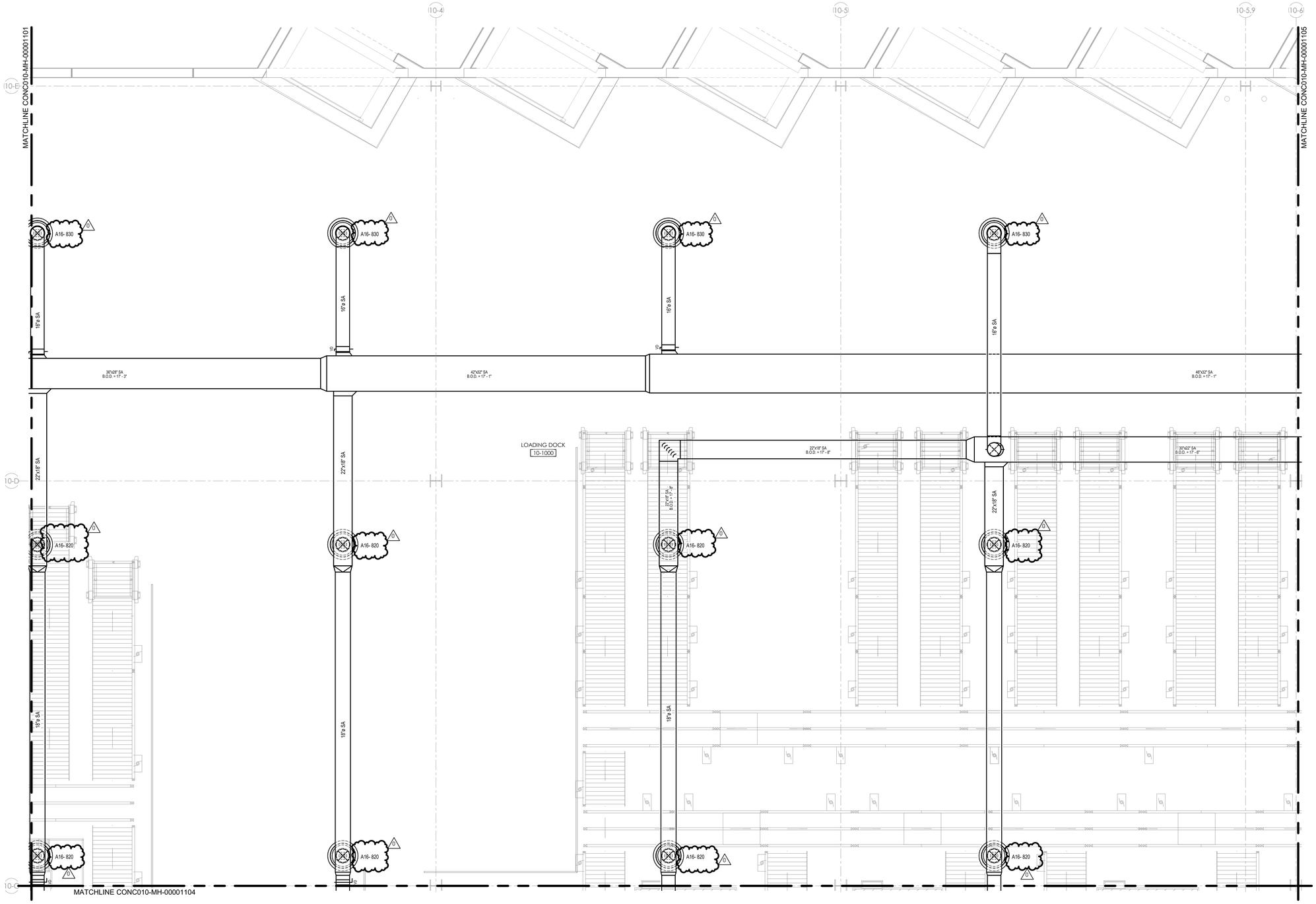
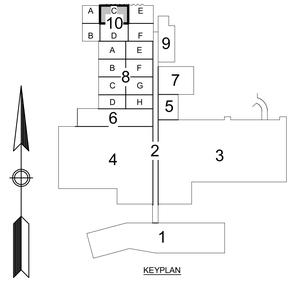
GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION FROM BELOW.





NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043024 JASON M. NEY 03-3-2023

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Lilly U.S.A.

AIR HANDLING SYSTEMS B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-C - 10-E:10-3 - 10-6	CO CODE: YELLOW
PROJECT NAME: CONC-003-5983			
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MH-00001103	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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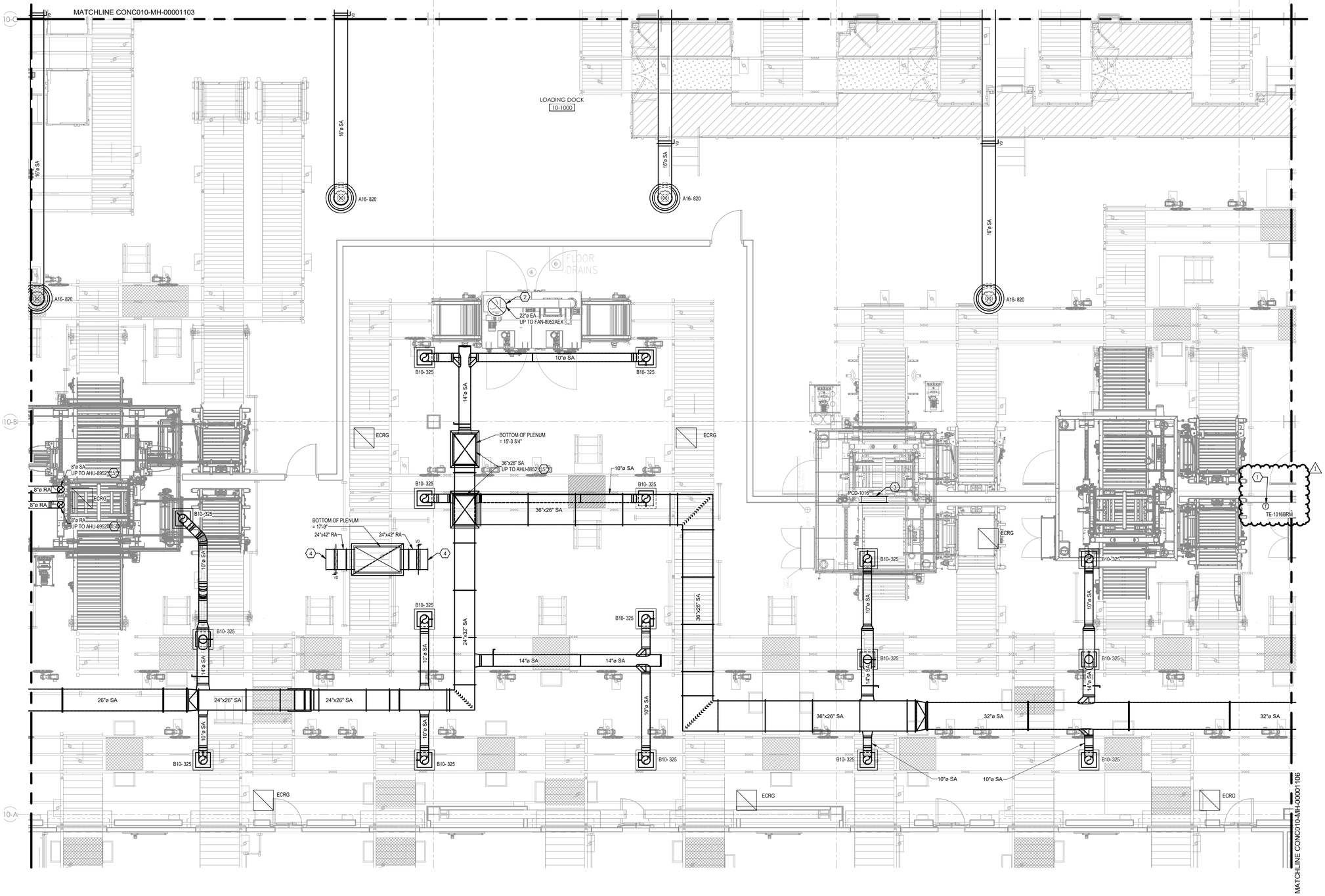


GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION FROM BELOW.

KEYED NOTES:

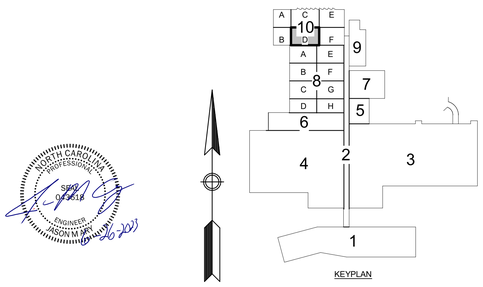
1 PROVIDE TEMPERATURE SENSOR AND ASSOCIATED CONTROL WIRING TO BMS.

2 PROVIDE 22"ø 304SS EXHAUST DUCTWORK TO PALLET WASHER CONNECTION. COORDINATE EXACT LOCATION AND CONNECTION SIZE WITH PALLET WASHER SHOP DRAWINGS. SEAL DUCT SLEEVE AIR TIGHT.

3 PROVIDE PRESSURE CONTROL DAMPER PCD-1016. INSTALL ABOVE CEILING. PROVIDE WITH HARDWARE CLOTH GRILLE ON BOTH SIDES OF WALL.

4 PROVIDE 24"x42" DUCTWORK, MANUAL VOLUME DAMPER, AND HARDWARE CLOTH GRILLE.

5 SEAL AIR DUCT PENETRATION AND SLEEVES FROM ROOM 1216 TO SECOND FLOOR AIR-TIGHT.



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042818 JASON M. NICHOLAS

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Lilly U.S.A.

AIR HANDLING SYSTEMS B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE		EDIFICE/BUILDING CONC010	LEVEL/FLOOR 01
SUB DISCIPLINE MH	LOCATION CODE CONC	LOCATION/GRID COL. 10-A - 10-C:10-3 - 10-6	CCI CODE YELLOW	PROJECT NAME CONC-003-5983
CRITICAL QUALITY No		ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE 1/4" = 1'-0"
CRITICAL BUSINESS Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No		VENDOR	DOCUMENT ID CONC010-MH-00001104	
NON-CRITICAL No		ENGINEERING AGENCY DOC ID		

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GENERAL NOTES:

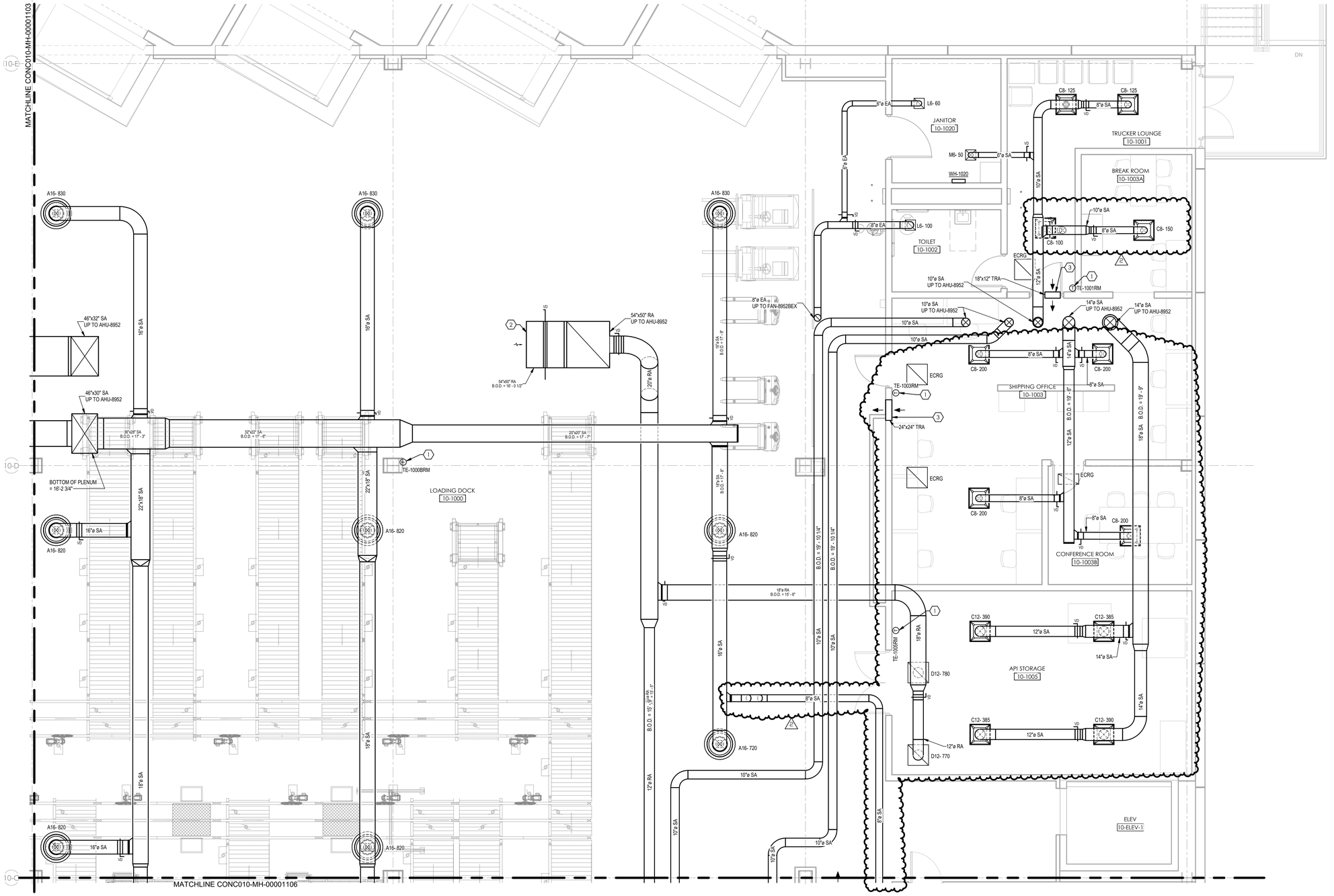
G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION FROM BELOW.

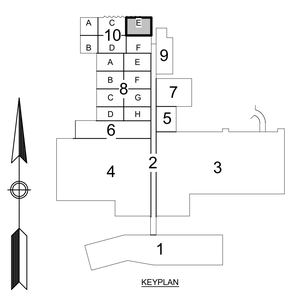
KEYED NOTES:

1 PROVIDE TEMPERATURE SENSOR AND ASSOCIATED CONTROL WIRING TO BMS.

2 PROVIDE 54"x50" MANUAL VOLUME DAMPER AND HARDWARE CLOTH GRILLE.

3 PROVIDE TRANSFER AIR DUCT ABOVE CEILING. PROVIDE HARDWARE CLOTH GRILLE ON BOTH SIDES OF WALL.





NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045818 JASON M ARY 10-23-2023

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Lilly U.S.A.

AIR HANDLING SYSTEMS B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2	ALL	BULLETIN-04	N/A	23-Aug-2023
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-C - 10-E:10-6 - 10-9	CCI CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MH-00001105	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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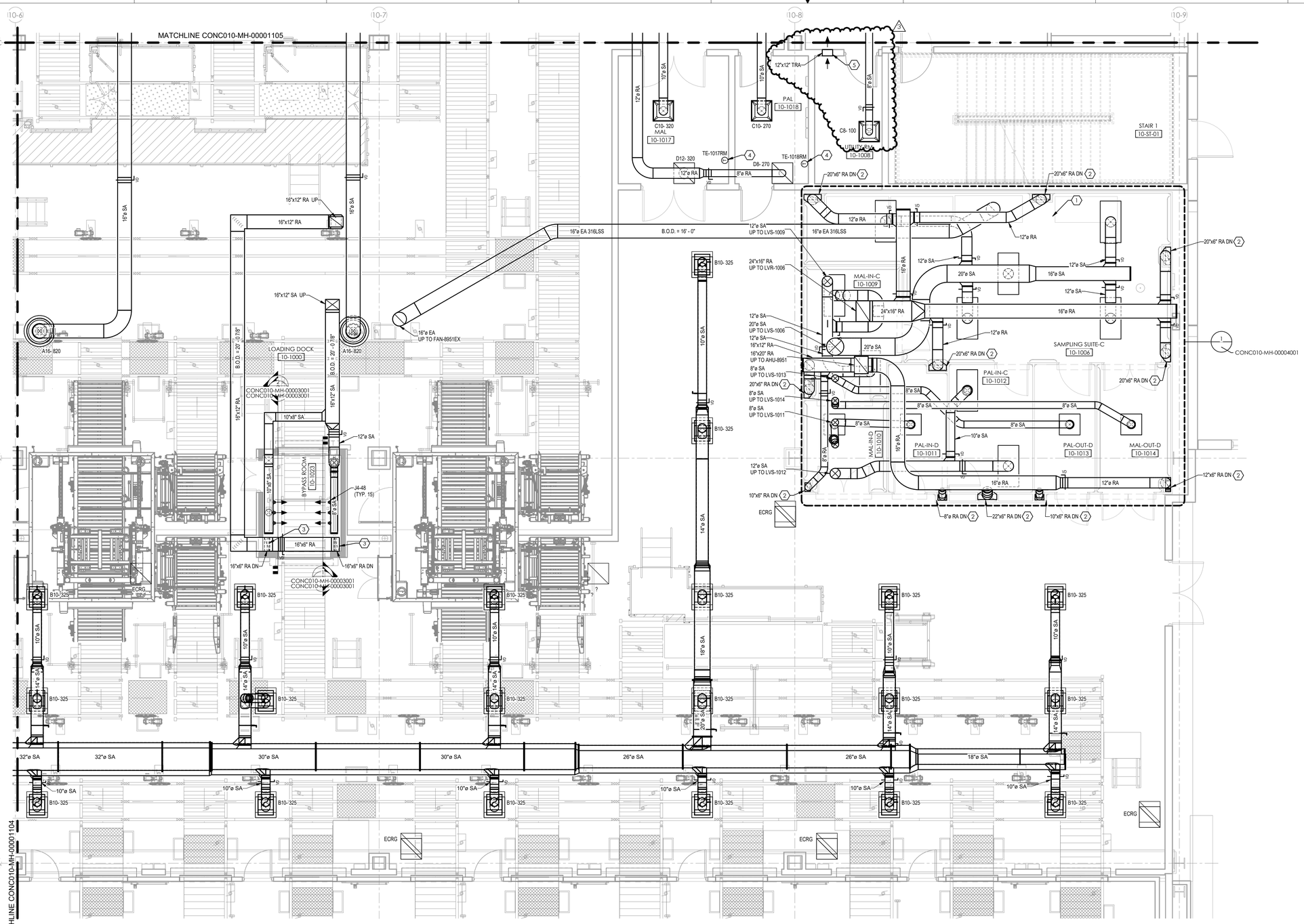
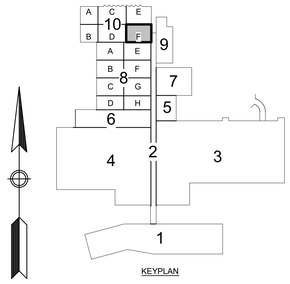


GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION FROM BELOW.

KEYED NOTES:

1. PROVIDE 316L SS EXHAUST DUCTWORK TO BIOSAFETY CABINET. COORDINATE EXACT LOCATION AND CONNECTION SIZE WITH AES SHOP DRAWINGS.
2. PROVIDE LOW LEVEL RETURN DUCTWORK DOWN DESIGNATED LOW LEVEL SCOOP RETURN AIR CHASE. TERMINATE WITH HARDWARE CLOTH GRILLE AT 8" A.F.F. COORDINATE EXACT LOCATION WITH AES SHOP DRAWINGS.
3. PROVIDE LOW LEVEL RETURN DUCT. TERMINATE ± 1'-6" A.F.F. WITH 14"x 14" GRILLE ON VERTICAL INTERIOR SIDE OF DUCT. COORDINATE EXACT LOCATION WITH DEMATIC CONVEYOR SHOP DRAWINGS.
4. PROVIDE TEMPERATURE SENSOR AND ASSOCIATED CONTROL WIRING TO BMS.
5. PROVIDE 12"x12" TRANSFER AIR DUCT ABOVE CEILING. PROVIDE HARDWARE CLOTH GRILLE ON BOTH SIDES OF WALL.



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049518 JASON M ARNOLD 8-23-2023

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Lilly U.S.A.

AIR HANDLING SYSTEMS B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
3	ALL	BULLETIN-04	N/A	23-Aug-2023
2	ALL	BULLETIN-03	N/A	26-Jun-2023
1	ALL	BULLETIN-02	N/A	04-May-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE		EDIFICE/BUILDING CONC010	LEVEL/FLOOR 01
SUB DISCIPLINE MH	LOCATION CODE CONC	LOCATION/GRID COL. 10-A - 10-C:10-6 - 10-9	CCI CODE YELLOW	PROJECT NAME CONC-003-5983
CRITICAL QUALITY No		ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE 1/4" = 1'-0"
CRITICAL BUSINESS Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No		VENDOR	DOCUMENT ID CONC010-MH-00001106	
NON-CRITICAL No		ENGINEERING AGENCY DOC ID		

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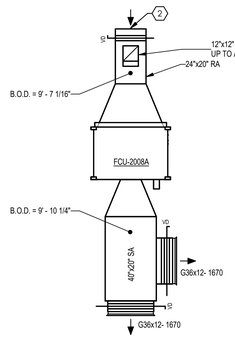
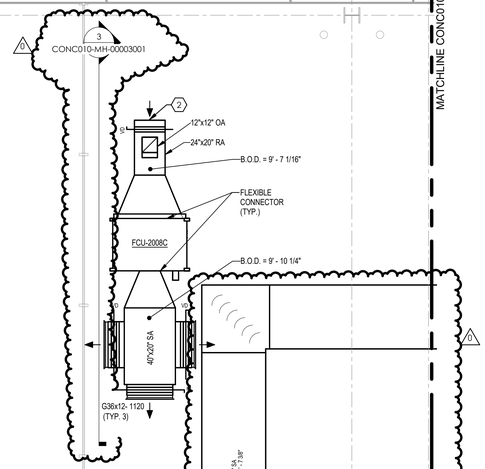
GENERAL NOTES:

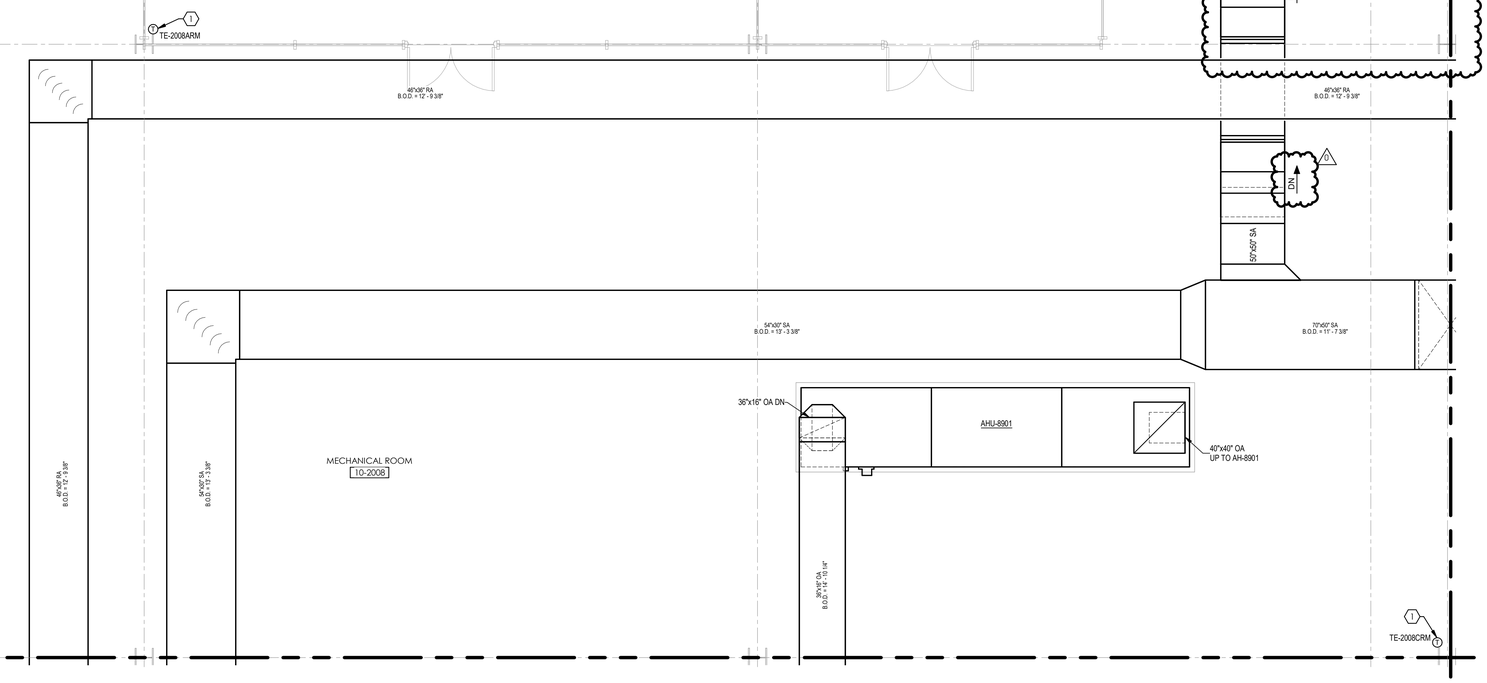
G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION FROM BELOW.

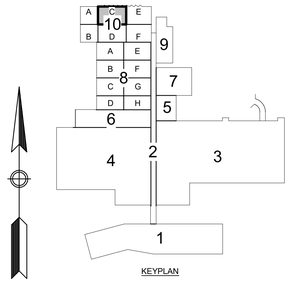
KEYED NOTES:

1. PROVIDE TEMPERATURE SENSOR AND ASSOCIATED CONTROL WIRING TO BMS.
2. PROVIDE HARDWARE CLOTH GRILLE ON RETURN AIR.









SEAL
04-3024
NORTH CAROLINA PROFESSIONAL ENGINEER JASON M ARY
3-3-2023

MUSSETT NICHOLAS
ASSOCIATES
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Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B10/02

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 02
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-C - 10-E:10-3 - 10-6	CCI CODE: YELLOW
PROJECT NAME: CONC-003-5983			
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
DRAWING SCALE: 1/4" = 1'-0"			
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID
MERIDIAN REV			
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MH-00001203
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID	

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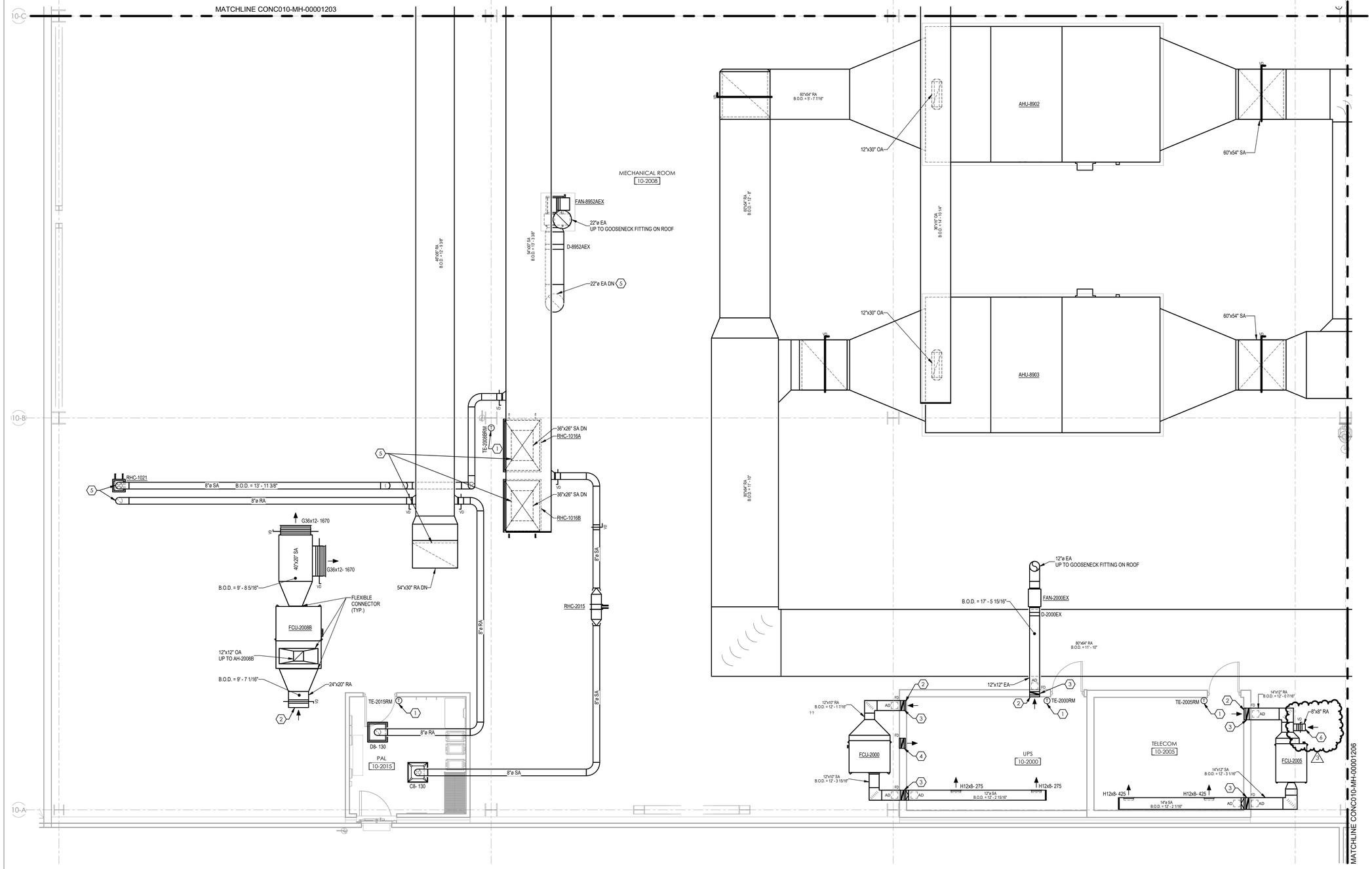
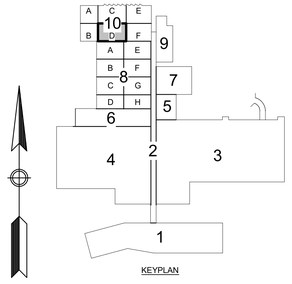


GENERAL NOTES:

G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION FROM BELOW.

KEYED NOTES:

1 PROVIDE TEMPERATURE SENSOR AND ASSOCIATED CONTROL WIRING TO BMS.
2 PROVIDE HARDWARE CLOTH GRILLE ON RETURN AIR.
3 PROVIDE FIRE DAMPER. FIREPROOF PENETRATION AS NECESSARY.
4 PROVIDE 12"x12" DUCT, FIRE DAMPER, AND HARDWARE CLOTH GRILLE. FIREPROOF PENETRATION AS NECESSARY.
5 FLASH DUCT PENETRATION INTO CONVEYOR TRANSFER ROOM 1016 AIR TIGHT.
6 PROVIDE 8"x8" BRANCH, MANUAL VOLUME DAMPER, AND HARDWARE CLOTH GRILLE. BALANCE TO 150 CFM.



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043618 JASON M RAY
Sep 23 - 2023

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ASSOCIATES
ENGINEERS + ARCHITECTS
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North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B10/02

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
3	ALL	BULLETIN-04	N/A	23-Aug-2023
2	ALL	BULLETIN-03	N/A	26-Jun-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE				EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 02
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-C;10-3 - 10-6		CCI CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"	
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID		MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MH-00001204		
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID			

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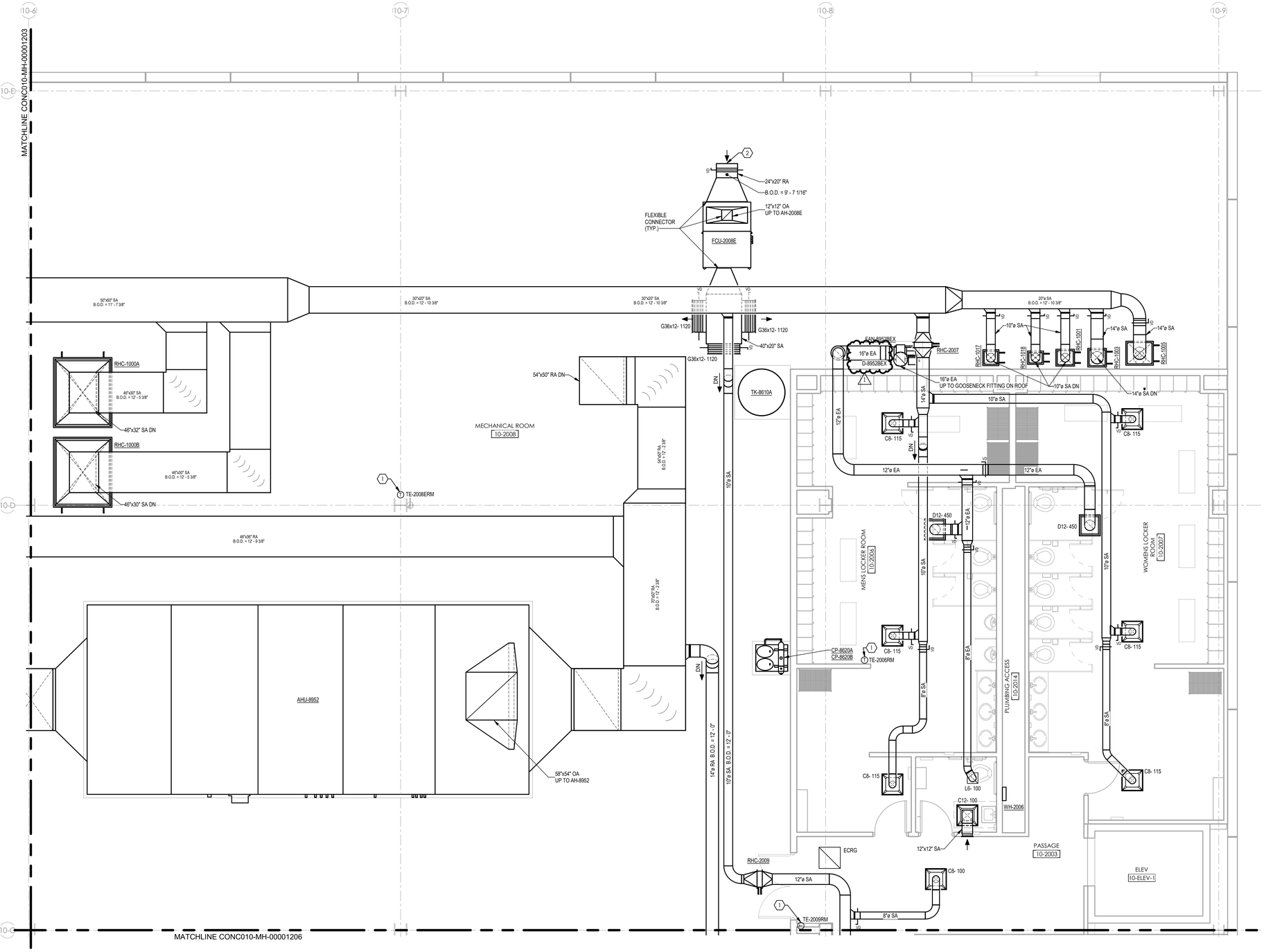
GENERAL NOTES:

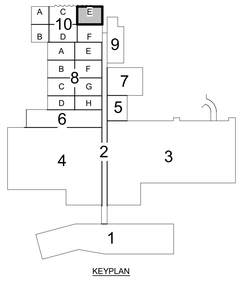
G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION FROM BELOW.

KEYED NOTES:

1 PROVIDE TEMPERATURE SENSOR AND ASSOCIATED CONTROL WIRING TO BMS.

2 PROVIDE HARDWARE CLOTH GRILLE ON RETURN AIR.





NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043618 JASON M. MAY 26-Jun-2023

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ASSOCIATES
ENGINEERS + ARCHITECTS
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317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B10/02

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING CONC010	LEVEL/FLOOR 02
SUB DISCIPLINE MH	LOCATION CODE CONC	LOCATION/GRID COL. 10-C - 10-E:10-6 - 10-9	CCI CODE YELLOW	PROJECT NAME CONC-003-5983
CRITICAL QUALITY No		ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE 1/4" = 1'-0"
CRITICAL BUSINESS Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No		VENDOR	DOCUMENT ID CONC010-MH-00001205	
NON-CRITICAL No		ENGINEERING AGENCY DOC ID		

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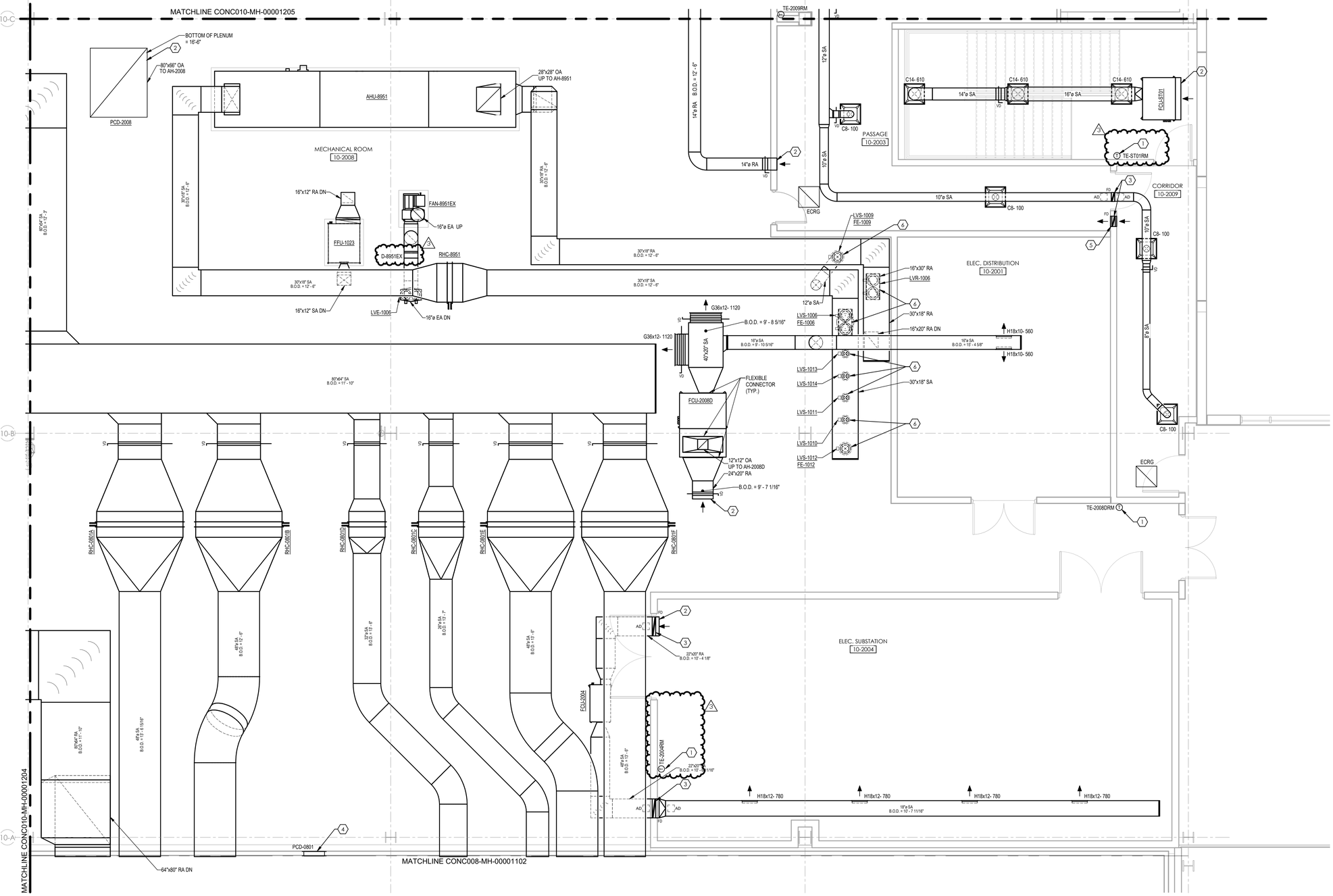
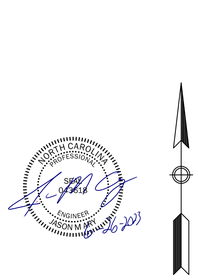


GENERAL NOTES:

- G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND GRILLES IN ACCESSIBLE LOCATION FROM BELOW.
- G2 PROVIDE ACCESS DOORS ON THE UPSTREAM AND DOWNSTREAM SIDE OF ALL FIRE DAMPERS.

KEYED NOTES:

1. PROVIDE TEMPERATURE SENSOR AND ASSOCIATED CONTROL WIRING TO BMS.
2. PROVIDE HARDWARE CLOTH GRILLE ON RETURN AIR.
3. PROVIDE FIRE DAMPER. FIREPROOF PENETRATION AS NECESSARY.
4. PROVIDE PRESSURE CONTROL DAMPER PCD-0801. COORDINATE WALL PENETRATION LOCATION WITH STRUCTURAL SHOP DRAWINGS. PROVIDE WITH HARDWARE CLOTH GRILLE ON BOTH SIDES OF WALL.
5. PROVIDE TRANSFER AIR DUCT ABOVE CEILING. PROVIDE WITH HARDWARE CLOTH GRILLE ON BOTH SIDES OF WALL. FIRE PROOF PENETRATION AS NECESSARY.
6. INSTALL LAB SUPPLY AND RETURN AIR VALVES IN VERTICAL POSITION ± 72° A.F.F.



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Lilly U.S.A.

AIR HANDLING SYSTEMS B10/02

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
3	ALL	BULLETIN-03	N/A	26-Jun-2023
2	ALL	BULLETIN-02	N/A	04-May-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 02
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-C:10-6 - 10-9	CCI CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MH-00001206	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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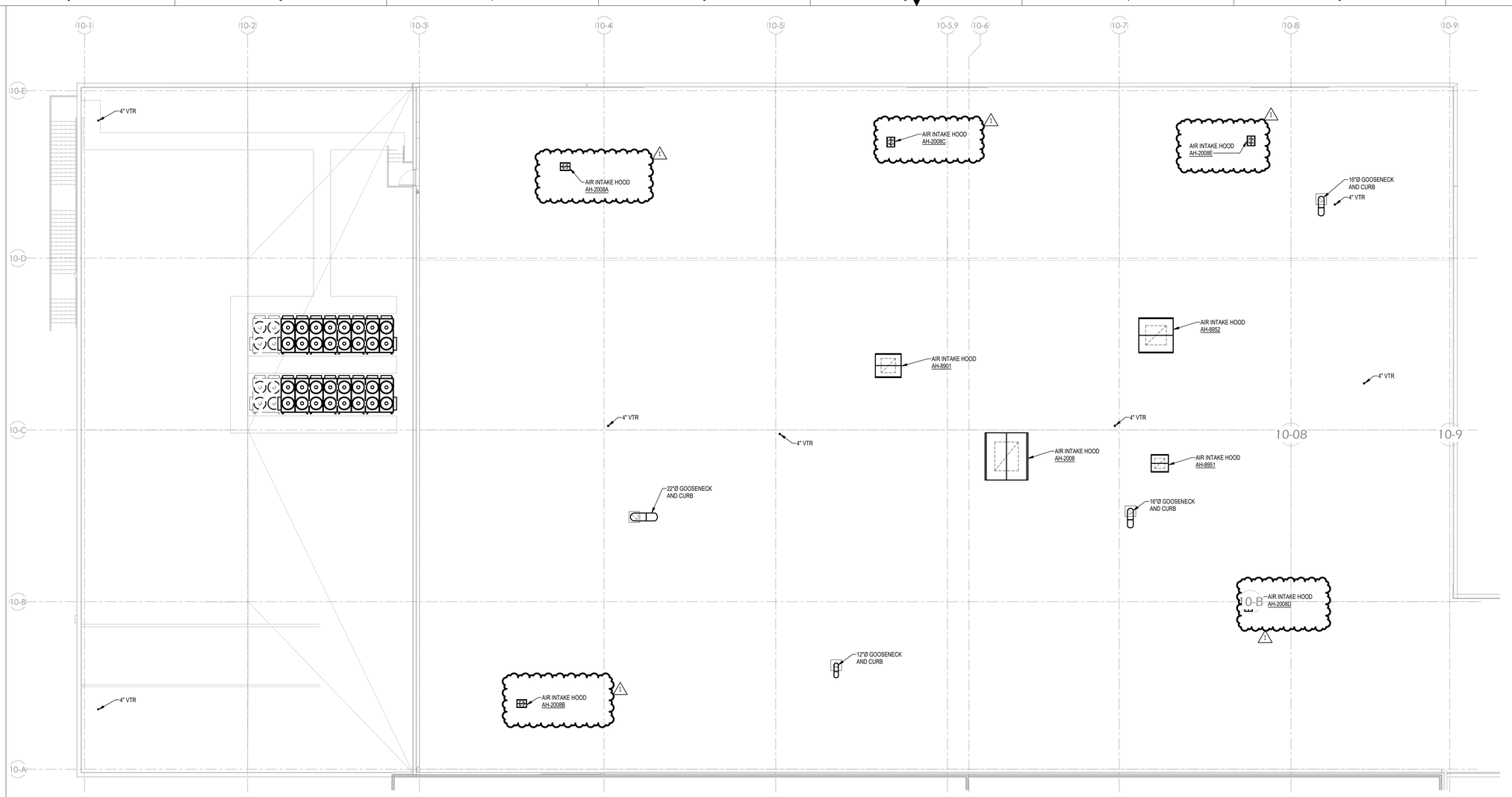

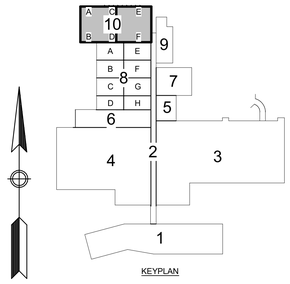

KEYPLAN

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North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

NORTH CAROLINA PROFESSIONAL SEAL 043814 ENGINEER JASON M ARY
10-4-2023

Lilly U.S.A.

AIR HANDLING SYSTEMS B10/R

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-02	N/A	04-May-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING CONC010	LEVEL/FLOOR R
SUB DISCIPLINE MH	LOCATION CODE CONC	LOCATION/GRID COL. 10-A - 10-E:10-1 - 10-9	CC CODE YELLOW	PROJECT NAME CONC-003-5983
CRITICAL QUALITY No		ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE 3/32" = 1'-0"
CRITICAL BUSINESS Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No		VENDOR	DOCUMENT ID CONC010-MH-00001301	
NON-CRITICAL No		ENGINEERING AGENCY DOC ID		

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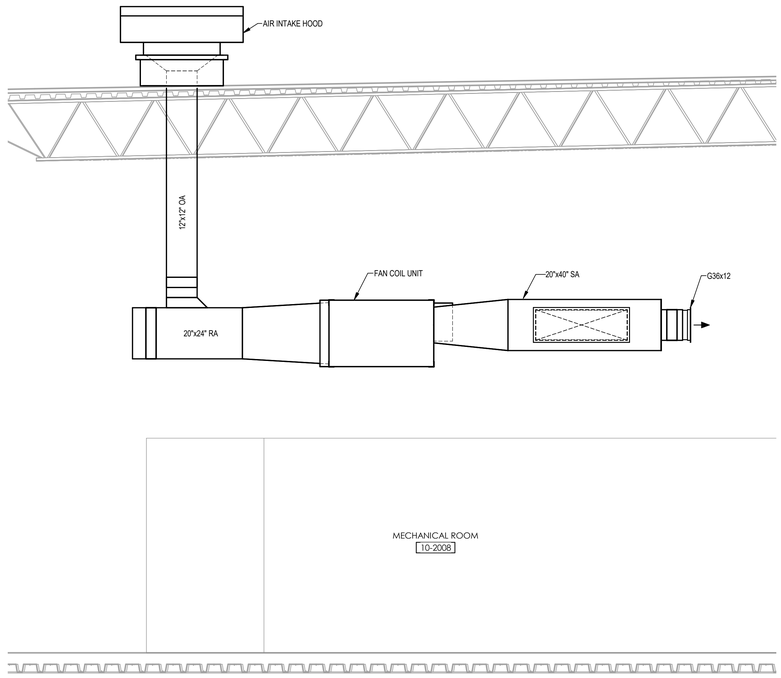
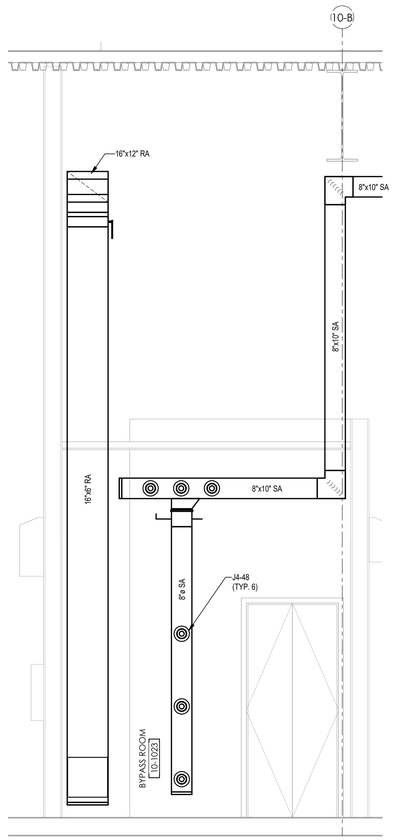
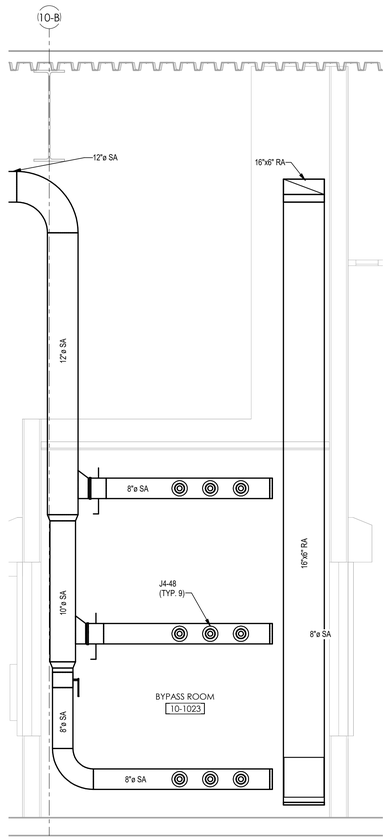


3 TYPICAL FAN COIL UNIT SECTION
SCALE: 1/2" = 1'-0"



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



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

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043224 JASON M MAY
3-3-2023

MUSSETT NICHOLAS
ASSOCIATES
ENGINEERS + ARCHITECTS
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North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B10/01 SECTIONS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE			EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/2" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MH-00003001	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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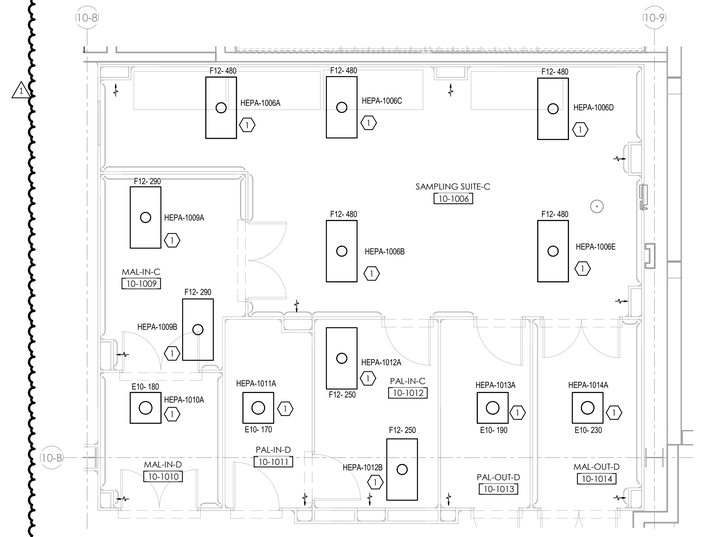
GENERAL NOTES:

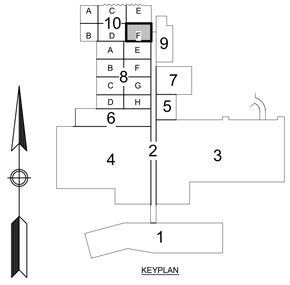
G1 PROVIDE MANUAL VOLUME DAMPER AT ALL DIFFUSERS AND REGISTERS IN ACCESSIBLE LOCATION FROM BELOW.

KEYED NOTES:

1 HEPA DIFFUSER FURNISHED BY CLEAN ROOM MANUFACTURER (AES). COORDINATE EXACT LOCATION AND CONNECTION SIZES WITH AES SHOP DRAWINGS.



NORTH 1 HEPA FILTER PLAN
SCALE: 1/4" = 1'-0"



KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043818 ENGINEER JASON M ARY 10-4-2023

MUSSETT NICHOLAS ASSOCIATES
ENGINEERS + ARCHITECTS
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North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

AIR HANDLING SYSTEMS B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-02	N/A	04-May-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-B - 10-C;10-8 - 10-9	CCI CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MH-00004001	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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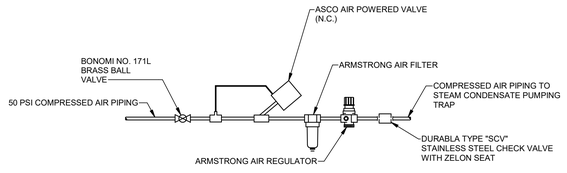
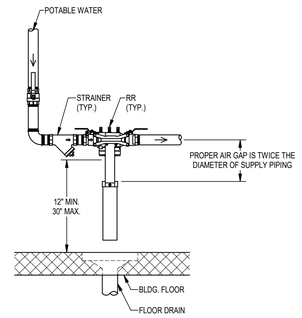
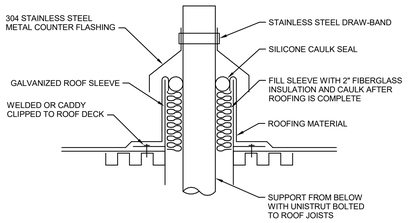


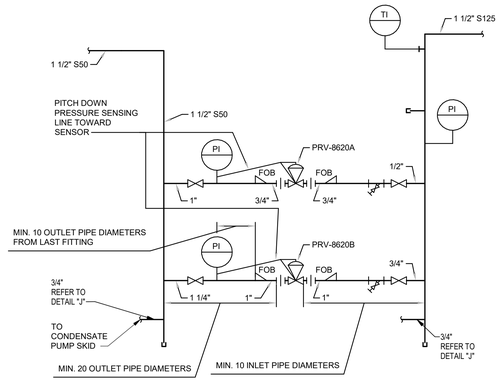
L AIR MOTIVE PACKAGE DETAIL
SCALE: NO SCALE



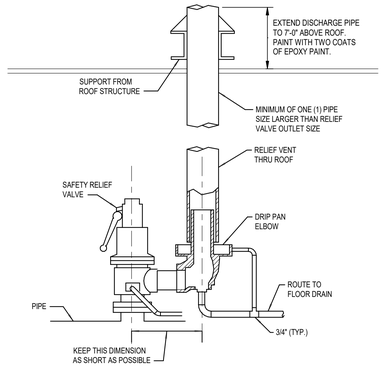
M BACKFLOW PREVENTER DETAIL
SCALE: NO SCALE



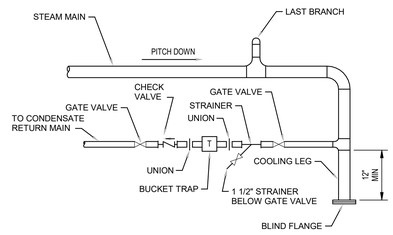
N HOT VENT THROUGH ROOF DETAIL
SCALE: NO SCALE



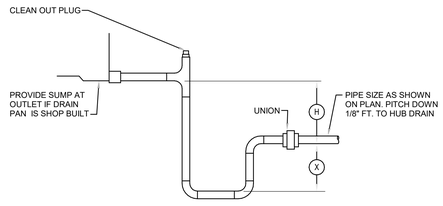
G STEAM PRESSURE REDUCING VALVE STATION DETAIL
SCALE: NO SCALE



H STEAM RELIEF VALVE DISCHARGE DETAIL
SCALE: NO SCALE

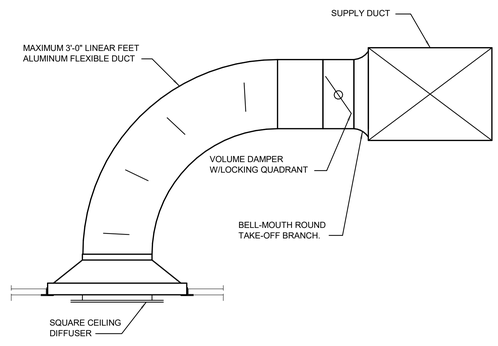


J MEDIUM AND HIGH PRESSURE MAIN DRIP DETAIL
SCALE: NO SCALE

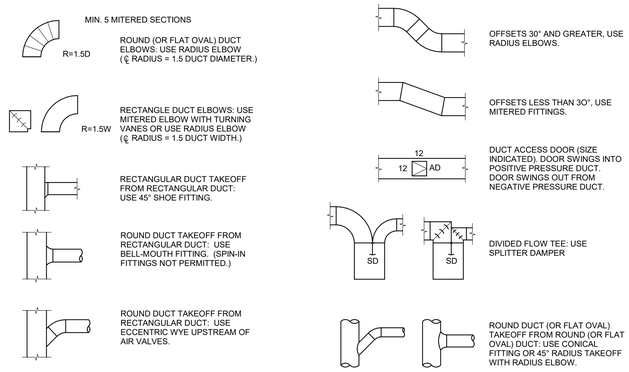


COOLING COIL CONDENSATE TRAP SCHEDULE		
MARK	H (INCHES)	X (INCHES)
AHU-8901	4.20	2.10
AHU-8902	4.40	2.20
AHU-8903	4.40	2.20
AHU-8951	3.80	1.90
AHU-8952	4.30	2.15
FCU-2000	2.00	1.00
FCU-2004	1.50	0.75
FCU-2005	1.50	0.75
FCU-2008A - E	2.50	1.25
FCU-ST01	2.00	1.00
DEH-0800ARM	3.00	1.50
DEH-0800BRM	3.00	1.50
DEH-0800CRM	3.00	1.50
DEH-0800DRM	3.00	1.50
GFCU-8661A - Q, 8662 A - Q, 8663 A - N, 8664 A - P	2.00	1.00

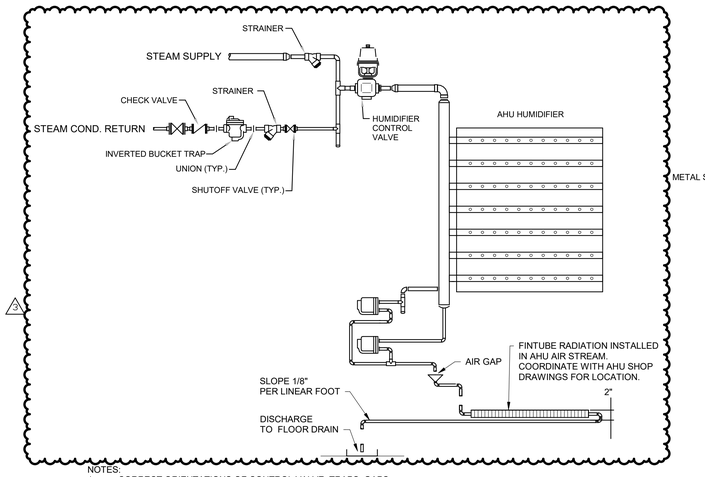
K CONDENSATE DRAIN DRAW THRU COIL DETAIL
SCALE: NO SCALE



D FLEXIBLE DUCT CONNECTION DETAIL
SCALE: NO SCALE

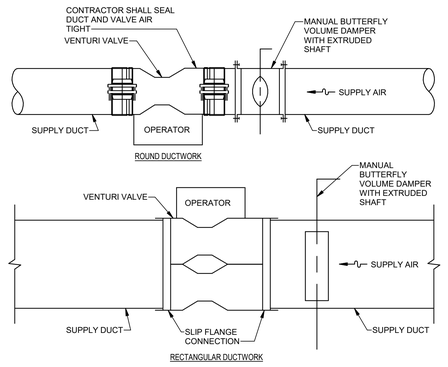


E SHEETMETAL FITTINGS
SCALE: NO SCALE



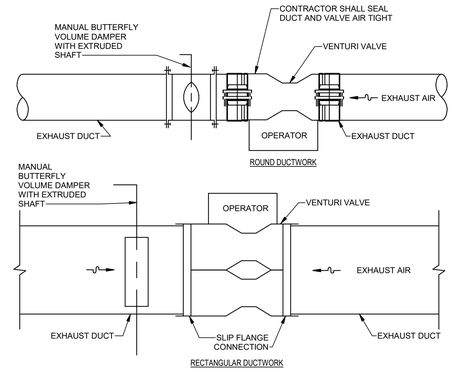
NOTES:
1. CORRECT ORIENTATIONS OF CONTROL VALVE, TRAPS, GAPS, FITTINGS, AND DRIP LEGS ARE NOT SHOWN.
2. REFER TO PIPING DIAGRAMS FOR PIPE SIZING.

F HUMIDIFIER DETAIL
SCALE: NO SCALE



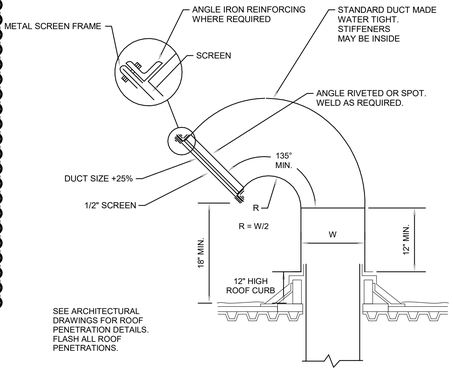
NOTE: CONTRACTOR SHALL SECURE AND SUPPORT VENTURI VALVE AS INDICATED BY MANUFACTURER AND SMACNA WRITTEN INSTRUCTIONS.

A VENTURI VALVE SUPPLY DUCT CONNECTION DETAIL
SCALE: NO SCALE



NOTE: CONTRACTOR SHALL SECURE AND SUPPORT VENTURI VALVE AS INDICATED BY MANUFACTURER AND SMACNA WRITTEN INSTRUCTIONS.

B VENTURI VALVE EXHAUST/RETURN DUCT CONNECTION DETAIL
SCALE: NO SCALE



SEE ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAILS. FLASH ALL ROOF PENETRATIONS.

C GOOSENECK DETAIL
SCALE: NO SCALE

MUSSETT NICHOLS ASSOCIATES
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502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

MECHANICAL DETAILS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
3	ALL	BULLETIN-05	N/A	13-Oct-2023
2	ALL	BULLETIN-04	N/A	23-Aug-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
PROJECT NAME: CONC-003-5983			
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: None
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MH-00005001	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043814 ENGINEER BENJAMIN M AMY 10-13-2023

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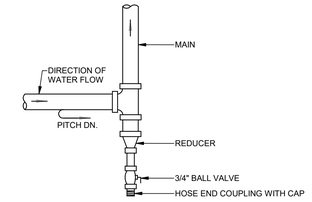
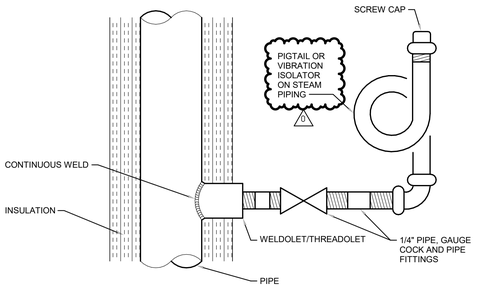
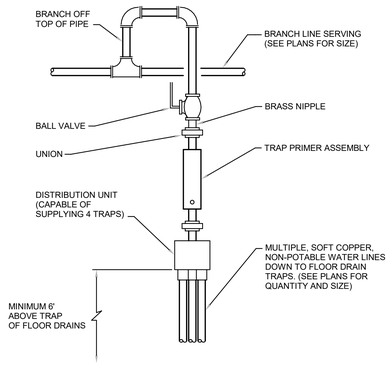


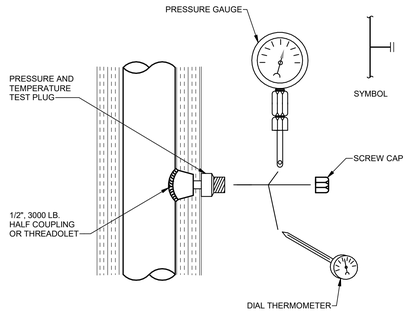
E DRAIN VALVE DETAIL
SCALE: NO SCALE



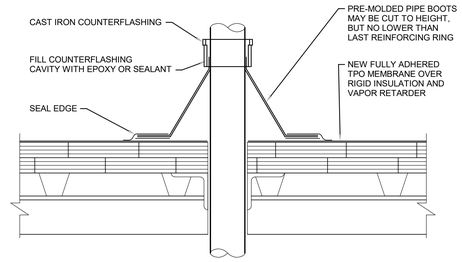
A TYPICAL GAUGE OUTLET DETAIL
SCALE: NO SCALE



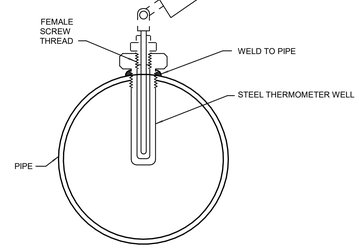
F TRAP PRIMER DETAIL
SCALE: NO SCALE



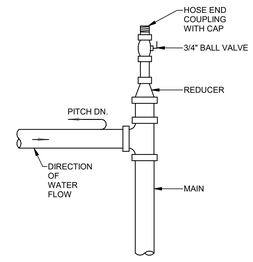
B PRESSURE/TEMPERATURE TEST PLUG DETAIL
SCALE: NO SCALE



G ROOF VENT DETAIL
SCALE: NO SCALE



C THERMOMETER WELL DETAIL
SCALE: NO SCALE



D MANUAL AIR VENT DETAIL
SCALE: NO SCALE

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Indianapolis, Indiana 46225
317.631.9241
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Lilly U.S.A.

MECHANICAL DETAILS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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NORTH CAROLINA PROFESSIONAL SEAL 043220 ENGINEER JASON M MINNICH 3-2023

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MH	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: None
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MH-00005002	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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AIR HANDLING UNIT SCHEDULE

MARK	AREA SERVED	BASIS OF DESIGN	MAXIMUM OUTSIDE AIR CFM	SUPPLY FAN: TOTAL CFM	TSP IN.WG.	ESP IN.WG.	TYPE	ARRANG.	CLASS	MOTORS BHP/HP	FAN LOCATION	ELECTRICAL VOLTS/PH/HZ	PREHEATING/HEATING COIL CONDITIONS: EAT DEG F DB	LAT DEG F DB	EWT DEG F DB	LWT DEG F DB	TOTAL MBH	GPM	COOLING COIL CONDITIONS: FPM MAX	MAX FINS PER INCH	EAT DEG F DB	EAT DEG F WB	LAT DEG F DB	LAT DEG F WB	TOTAL MBH	SEN MBH	EWT	LWT	GPM	APD WG	WPD FT H2O	HUMIDIFIER COIL CONDITIONS: ENTERING CONDITIONS (DEG F DB/ % RH)	LEAVING CONDITIONS (DEG F DB/ % RH)	STEAM PSI	STEAM LB/HR	MAX APD WG	MIXED AIR PRE-FILTER: PRE-FILTER TYPE	APD DIRTY (IN WG)	EFF.	INTERMEDIATE FILTER TYPE	APD DIRTY (IN WG)	EFF.	FINAL: APD DIRTY (IN WG)	EFF.	WEIGHT (LBS)	REMARKS
AHU-8901	B8 CRT OUTDOOR AIR	AIR ENTERPRISE	4,000	4,000	5.35	2.0	PLENUM	4	III	4.9 / 7.5	DRAW-THRU	460/3/60	14.4	55	130	110	175	18	450	10	94.2	77.3	50	50	370.6	190.9	42	54	61	0.38	14.6	55 / 10%	57 / 70%	50	163	0.25	PLEATED	0.5	30	CART	1	85	-	-	7290	
AHU-8902	B8 CRT	AIR ENTERPRISE	2,000	42,000	7.35	4.0	PLENUM	4	III	68.1 / 100	DRAW-THRU	460/3/60	-	-	-	-	-	-	450	10	70.9	62	52	52	1160	837.3	42	54	193	0.5	12.7	-	-	-	-	-	PLEATED	0.5	30	CART	1	85	-	-	20340	
AHU-8903	B8 CRT	AIR ENTERPRISE	2,000	42,000	7.35	4.0	PLENUM	4	III	68.1 / 100	DRAW-THRU	460/3/60	-	-	-	-	-	-	450	10	70.9	62	52	52	1160	837.3	42	54	193	0.5	12.7	-	-	-	-	-	PLEATED	0.5	30	CART	1	85	-	-	20340	
AHU-8951	B10 SAMPLING SUITE	AIR ENTERPRISE	2,000	4,500	8.35	4.0	PLENUM	4	III	8.4 / 10	DRAW-THRU	460/3/60	40	55	130	110	73	7.3	450	10	79.6	67	50	50	233	143.9	42	54	39	0.81	2.1	55 / 48%	57/ 70%	50	83	0.25	PLEATED	0.5	30	CART	1	85	1	95	8410	
AHU-8952	DOCK, CNC, OFFICE	AIR ENTERPRISE	8,000	51,000	7.65	3.0	PLENUM	4	III	85.1 / 100	DRAW-THRU	460/3/60	40	55	130	110	826	84	450	10	75.5	67	50	50	2639	140.4	42	54	440	0.68	12.2	55/ 37%	57 / 70%	50	350	0.25	PLEATED	0.5	30	CART	1	85	1	95	35650	

REHEAT COIL SCHEDULE

MARK NO.	AIR TERMINAL MARK	DESIGN AIRFLOW (CFM)	COIL SIZE (INCHES) WIDTH	COIL SIZE (INCHES) HEIGHT	FACE VELOCITY (FPM)	ENTERING AIR TEMP. (°F)	LEAVING AIR TEMP. (°F)	ENTERING WATER TEMP. (°F)	LEAVING WATER TEMP. (°F)	CAPACITY (MBH)	WATER FLOW RATE (GPM)	DESIGN AIR SIDE PRESSURE LOSS (IN. WC)	DESIGN WATER SIDE PRESSURE LOSS (FT. WC)	NUMBER OF ROWS	FINS PER INCH	CIRCUIT	REMARKS
RHC-1000A	AHU-8952	14390	72	60	500	55	90	130	110	544	54	0.15	5	2	6		
RHC-1000B	AHU-8952	14390	72	60	500	55	90	130	110	544	54	0.15	5	2	6		
RHC-1001	AHU-8952	500	12	12	500	55	90	130	110	19	2	0.15	5	2	6		
RHC-1003	AHU-8952	600	14	14	500	55	90	130	110	23	2	0.15	5	2	6		
RHC-1005	AHU-8952	1550	26	18	500	55	90	130	110	59	6	0.15	5	2	6		
RHC-8951	AHU-8951	4250	42	30	500	55	90	130	110	161	16	0.15	5	2	6		
RHC-1016A	AHU-8952	7965	60	42	500	55	90	130	110	301	30	0.15	5	2	6		
RHC-1016B	AHU-8952	7965	60	42	500	55	90	130	110	301	30	0.15	5	2	6		
RHC-1017	AHU-8952	320	12	10	500	55	90	130	110	12	1	0.15	5	2	6		
RHC-1018	AHU-8952	290	10	10	500	55	90	130	110	11	1	0.15	5	2	6		
RHC-1021	AHU-8952	200	10	8	500	55	90	130	110	8	0.8	0.15	5	2	6		
RHC-2007	AHU-8952	700	16	16	500	55	90	130	110	26	3	0.15	5	2	6		
RHC-2009	AHU-8952	500	12	12	500	55	90	130	110	19	2	0.15	5	2	6		
RHC-0801A	AHU-8902&8903	18350	96	54	500	55	90	130	110	694	69	0.15	5	2	6		
RHC-0801B	AHU-8902&8903	18350	96	54	500	55	90	130	110	694	69	0.15	5	2	6		
RHC-0801C	AHU-8902&8903	6800	38	30	500	55	90	130	110	257	26	0.15	5	2	6		
RHC-0801D	AHU-8902&8903	3800	50	40	500	55	90	130	110	144	14	0.15	5	2	6		
RHC-0801E	AHU-8902&8903	18350	96	54	500	55	90	130	110	694	69	0.15	5	2	6		
RHC-0801F	AHU-8902&8903	18350	96	54	500	55	90	130	110	694	69	0.15	5	2	6		
RHC-2015	AHU-8952	130	8	8	500	55	90	130	110	5	0.5	0.15	5	2	6		

DIFFUSER/GRILLE SCHEDULE

MARK NO.	MANUF. & MODEL NO.	SERVICE	MAX CFM.	MAT.	NECK SIZE	FRAME	ACCESSORY	MAX NC RATING	FINISH	REMARKS
A16	PRICE RCD	ROUND CONE SUPPLY DIFFUSER	900	STEEL	16"	36"	-	20	WE	FOUR CONE
B10	PRICE RTD	RADIAL TWIST SUPPLY DIFFUSER	400	ALUMINUM	10"	24" X 24"	-	20	WE	T-BAR LAY-IN
C6	PRICE SPD	SQUARE PLAQUE SUPPLY DIFFUSER	100	ALUMINUM	6"	24" X 24"	-	20	WE	T-BAR LAY-IN
C8	PRICE SPD	SQUARE PLAQUE SUPPLY DIFFUSER	200	ALUMINUM	8"	24" X 24"	-	20	WE	T-BAR LAY-IN
C10	PRICE SPD	SQUARE PLAQUE SUPPLY DIFFUSER	370	ALUMINUM	10"	24" X 24"	-	20	WE	T-BAR LAY-IN
C12	PRICE SPD	SQUARE PLAQUE SUPPLY DIFFUSER	420	ALUMINUM	12"	24" X 24"	-	20	WE	T-BAR LAY-IN
C14	PRICE SPD	SQUARE PLAQUE SUPPLY DIFFUSER	650	ALUMINUM	14"	24" X 24"	-	20	WE	T-BAR LAY-IN
D8	PRICE PDDR	PERFORATED RETURN DIFFUSER	200	ALUMINUM	8"	24" X 24"	-	20	WE	T-BAR LAY-IN
D10	PRICE PDDR	PERFORATED RETURN DIFFUSER	350	ALUMINUM	10"	24" X 24"	-	20	WE	T-BAR LAY-IN
E10	AAF	HEPA SUPPLY DIFFUSER	250	316L STAINLESS STEEL	10"	24" X 24"	INTEGRAL DAMPER	25	-	STAINLESS STEEL KNIFE EDGE WITH GEL SEAL FURNISHED BY CLEAN ROOM VENDOR
F12	AAF	HEPA SUPPLY DIFFUSER	500	316L STAINLESS STEEL	12"	24" X 48"	INTEGRAL DAMPER	25	-	STAINLESS STEEL KNIFE EDGE WITH GEL SEAL FURNISHED BY CLEAN ROOM VENDOR
G12X36	PRICE HCD	HIGH CAPACITY DRUM LOUVER	1700	STEEL	12" X 36"	12" X 36"	INTEGRAL DAMPER	25	WE	-
H12X8	PRICE 2030	AIRFOIL SUPPLY GRILLE	425	STEEL	12" X 8"	12" X 8"	INTEGRAL DAMPER	25	-	-
H18X10	PRICE 2030	AIRFOIL SUPPLY GRILLE	640	STEEL	18" X 10"	18" X 10"	INTEGRAL DAMPER	25	-	-
H18X12	PRICE 2030	AIRFOIL SUPPLY GRILLE	900	STEEL	18" X 12"	18" X 12"	INTEGRAL DAMPER	25	-	-
H24X12	PRICE 2030	AIRFOIL SUPPLY GRILLE	1320	STEEL	24"X12"	24"X12"	INTEGRAL DAMPER	25	-	-
J4	PRICE ND	NOZZLE SUPPLY DIFFUSER	60	STEEL	4"	6"	INTEGRAL DAMPER	40	-	-
K16X10	PRICE 80	EGG CRATE RETURN GRILLE	360	STEEL	16" X 10"	16" X 10"	INTEGRAL DAMPER	25	-	-
K18X12	PRICE 80	EGG CRATE RETURN GRILLE	1000	STEEL	18" X 12"	18" X 12"	INTEGRAL DAMPER	25	-	-
K20X16	PRICE 80	EGG CRATE RETURN GRILLE	1300	STEEL	20" X 16"	20" X 16"	INTEGRAL DAMPER	25	-	-
L12	PRICE PDDR	PERFORATED RETURN DIFFUSER	100	ALUMINUM	8"	12" X 12"	-	20	WE	T-BAR LAY-IN
M8	PRICE SPD	SQUARE PLAQUE SUPPLY DIFFUSER	200	ALUMINUM	8"	12" X 12"	-	20	WE	T-BAR LAY-IN
ECRG	PRICE 80	EGG CRATE RETURN GRILLE	-	ALUMINUM	-	24X24	-	-	WE	T-BAR LAY-IN

DEHUMIDIFIER SCHEDULE

MARK	MANUFACTURER	MODEL	PROCESS CFM	EAT	LAT	PROCESS LB/HR	RACTIVATION HEATER TYPE	REQ.D MBH	MAX LB/HR	FILTER	AIRFLOW OUT CFM	TSP "WG	TYP	MOTOR HP	MCA	VOLT/PH/Hz	WEIGHT (LBS)	REMARKS
DEH-0800ARM - DRM	BMIL	DZ-2000	2000	40	50.2	15	ECM, DIRECT DRIVE	34	15	2" MERV 8 (2 SETS)	1000	1.7	ECM, DIRECT DRIVE	1.5	30	480/3/60	915	

EXHAUST FAN SCHEDULE

MARK	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	DRIVE	CFM	E.S.P. ("W.C)	ARR	MOTOR HP	RPM	VOLT/PH/HZ	WEIGHT (LBS)	REMARKS
FAN-8951EX	BLDG. 10 MECH. ROOM	SAMPLING SUITE BSC	AEROVENT	135/CB-SW	UPBLAST	DIRECT	1120	2	4	1	1800	460/3/60	381	
FAN-8952AEX	BLDG. 10 MECH. ROOM	PALLET WASHER	AEROVENT	165/CB-SW	UPBLAST	DIRECT	2800	2	4	2	1800	460/3/60	476	304 SS CONSTRUCTION
FAN-8952BEX	BLDG. 10 MECH. ROOM	RESTROOMS	AEROVENT	135-CB-SW	UPBLAST	DIRECT	1270	1	4	1	1800	460/3/60	350	
FAN-2000EX	BLDG. 10 MECH. ROOM	UPS ROOM	TWIN CITY	DSI	INLINE	DIRECT	600	1	-	0.75	1800	115/1/60	96	

VENTURI AIR VALVE SCHEDULE

MARK NO.	SERVICE	SIZE (INCHES)	QUANTITY	AIRFLOW (CFM) DESIGN MIN	DESIGN MAX	VALVE MIN	VALVE MAX	END-USE ROOM	VALVE LOCATION	MANUFACTURER	TYPE	ACTUATOR	SPEED	DESIGNATION	DESCRIPTION	ORIENTATION	COMMENTS
LVS-1006	SUPPLY	14	DOUBLE	2400	2400	400	2800	SAMPLING SUITE	MECHANICAL ROOM 10-2008	PHOENIX	CSV	N/A	N/A	LOW PRESSURE	CAV	VERTICAL	
LVS-1009	SUPPLY	12	SINGLE	580	580	90	1050	MAL-IN(C)	MECHANICAL ROOM 10-2008	PHOENIX	CSV	N/A	N/A	LOW PRESSURE	CAV	VERTICAL	
LVS-1010	SUPPLY	8	SINGLE	180	180	35	500	MAL-IN(D)	MECHANICAL ROOM 10-2008	PHOENIX	CSV	N/A	N/A	LOW PRESSURE	CAV	VERTICAL	
LVS-1011	SUPPLY	8	SINGLE	170	170	35	500	PAL-IN(D)	MECHANICAL ROOM 10-2008	PHOENIX	CSV	N/A	N/A	LOW PRESSURE	CAV	VERTICAL	
LVS-1012	SUPPLY	12	SINGLE	500	500	90	1050	PAL-IN(C)	MECHANICAL ROOM 10-2008	PHOENIX	CSV	N/A	N/A	LOW PRESSURE	CAV	VERTICAL	
LVS-1013	SUPPLY	8	SINGLE	190	190	35	500	PAL-OUT(D)	MECHANICAL ROOM 10-2008	PHOENIX	CSV	N/A	N/A	LOW PRESSURE	CAV	VERTICAL	
LVS-1014	SUPPLY	8	SINGLE	230	230	35	500	MAL-OUT(D)	MECHANICAL ROOM 10-2008	PHOENIX	CSV	N/A	N/A	LOW PRESSURE	CAV	VERTICAL	
LVR-1006	RETURN	14	DOUBLE	680	1150	400	2800	SAMPLING SUITE	MECHANICAL ROOM 10-2008	PHOENIX	BEV	ELECTRIC	HIGH	LOW PRESSURE	VAV	VERTICAL	
LVE-1006	EXHAUST	12	DOUBLE	600	1200	180	2100	SAMPLING SUITE	MECHANICAL ROOM 10-2008	PHOENIX	BEV	ELECTRIC	HIGH	LOW PRESSURE	VAV	VERTICAL	PHENOLIC COATING

DESTRATIFICATION FAN SCHEDULE

MARK	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	DRIVE	CFM MAX	S.P. ("W.C.)	MOTOR HP	REMARKS
FAN-0801ARM - 0801ERM FAN-0801TRM - 0801XRM	BLDG. 8	DESTRATIFICATION	AEROVENT	TA-16L4	VERTICAL DOWNBLOW MOUNT	DIRECT	2276	0.125	0.25	DOWN BLOW
FAN-0801FRM - 0801SRM	BLDG. 8	DESTRATIFICATION	AEROVENT	TA-16L4	VERTICAL UPBLOW MOUNT	DIRECT	2276	0.125	0.33	UPWARD BLOW

STEAM PRESSURE REDUCING VALVE SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL	SERVICE	VALVE SIZE (IN.)	INLET PSIG	OUTLET PSIG	LBS/HR	REMARKS
PRV-8620A	BLDG. 10 MECH. ROOM	ARMSTRONG	GD-6N	50 PSIG STEAM	3/4	125	50	150	1/3 VALVE
PRV-8620B	BLDG. 10 MECH. ROOM	ARMSTRONG	GD-6N	50 PSIG STEAM	1	125	50	300	2/3 VALVE

GLYCOL FAN COIL UNIT SCHEDULE

MARK	SERVES	MANUFACTURER	MODEL	QUANTITY	SUPPLY AIR (CFM)	FAN QUANTITY	FAN HP	EAT DB/WB	LAT DB	FLUID TYPE/CONCENTRATION	UNIT MBH	REQUIRED MBH	FLUID (DEG. F) IN/OUT	GPM	FIN PER IN	ROWS	PSI DROP	MCA	MOP	VOLT/PH/HZ	WEIGHT (LBS)	REMARKS
GFCU-8661A - Q, 8662 A - Q, 8663 A - N, 8664 A - P	CHILL ROOM 08-1001	BALLY	BHP086WA-T4A-7SA75	59	15230	2	1	41 / 37.2	37.5	30% PROPYLENE GLYCOL	57.1	51.3	25 / 34	12	7	4	6.4	5.4	15	460/3/60	700	PROVIDE WITH INSULATED DRAIN PAN

MISCELLANEOUS EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	SERVES	OPERATING DATA OR PHYSICAL DATA
TK-8610A	SAFETY SHOWER TANK	AO SMITH	ACV*-500	SAFETY SHOWER	ASME SECTION VIII, 125 PSI WORKINGN PRESSURE, 2" INLET, 2" OUTLET
FE-1006Q	AIRFLOW MEASURING STATION	ACCUTROL	VORTEK VTD	SAMPLING (C) 10-1006	20" ROUND DUCT, 304SS PROBE, 2 PROBES
FE-1009Q	AIRFLOW MEASURING STATION	ACCUTROL	VORTEK VTD	MAL-IN (C) 10-1009	12" ROUND DUCT, 304SS PROBE, 1 PROBES
FE-1012Q	AIRFLOW MEASURING STATION	ACCUTROL	VORTEK VTD	PAL-IN (C) 10-1012	12" ROUND DUCT, 304SS PROBE, 1 PROBES
CSF-8660H	CHEMICAL POT FEEDER	WESSELS	SS-CPBF-5F	GLYCOL PUMP SKID	5 GALLON VOLUME
TK-8620	FLASH TANK	ARMSTRONG	HAFT-6	STEAM SYSTEM	5,000 LB/HR MAX CONDENSATE LOAD, HORIZONTAL FLASH TANK
TK-8660C	BUFFER TANK	TACO	BLT0850F-125N	GLYCOL PUMP SKID	850 GALLON TANK VOLUME

GLYCOL CHILLER SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL	TYPE	REFRIGERANT	NOMINAL TONNAGE	NUMBER OF COMPRESSORS	EVAPORATOR GPM	EWT DEG. F	LWT DEG. F	WPD (FT)	FOULING FACTOR	CONDENSER FANS	EAT DEG. F	ELECTRICAL VOLT/PH	MCA	MOP	EFFICIENCY EER	WEIGHT (LBS)	REMARKS
CHLR-8660A	B10 ROOF	TRANE	TPACVMV0600D4-MM	SCROLL	410A	60	2	113	34	25	14.3	0.0001	4	95	460/3	106	150	7.47	5000	CHLR-8660A, B, C, D ARE CONNECTED IN A BANK OF 4 MODULES
CHLR-8660B	B10 ROOF	TRANE	TPACVMV0600D4-MM	SCROLL	410A	60	2	113	34	25	14.3	0.0001	4	95	460/3	106	150	7.47	5000	
CHLR-8660C	B10 ROOF	TRANE	TPACVMV0600D4-MM	SCROLL	410A	60	2	113	34	25	14.3	0.0001	4	95	460/3	106	150	7.47	5000	
CHLR-8660D	B10 ROOF	TRANE	TPACVMV0600D4-MM	SCROLL	410A	60	2	113	34	25	14.3	0.0001	4	95	460/3	106	150	7.47	5000	
CHLR-8660E	B10 ROOF	TRANE	TPACVMV0600D4-MM	SCROLL	410A	60	2	113	34	25	14.3	0.0001	4	95	460/3	106	150	7.47	5000	CHLR-8660E, F, G, H ARE CONNECTED IN A BANK OF 4 MODULES
CHLR-8660F	B10 ROOF	TRANE	TPACVMV0600D4-MM	SCROLL	410A	60	2	113	34	25	14.3	0.0001	4	95	460/3	106	150	7.47	5000	
CHLR-8660G	B10 ROOF	TRANE	TPACVMV0600D4-MM	SCROLL	410A	60	2	113	34	25	14.3	0.0001	4	95	460/3	106	150	7.47	5000	
CHLR-8660H	B10 ROOF	TRANE	TPACVMV0600D4-MM	SCROLL	410A	60	2	113	34	25	14.3	0.0001	4	95	460/3	106	150	7.47	5000	

UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	WATS	VOLTS/PHASE/AMPS	CFM	REMARKS
UH-1015	INDEECO	WCI SERIES	RISER ROOM (10-1015)	2000	277/1/7.6	160	INTEGRAL TSTAT, CATALOG NUMBER: 932U02000N
UH-1019	INDEECO	WCI SERIES	RISER ROOM (10-1019)	2000	277/1/7.6	160	INTEGRAL TSTAT, CATALOG NUMBER: 932U02000N

GLYCOL/CHILLED WATER PUMP SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL	TYPE	SERVICE	GPM	HEAD (FT)	ELECTRICAL HP (WATT)	MOTOR RPM	VOLT/PH/HZ	EFF (%)	WEIGHT (LBS)	REMARKS
P-8660B	MECHANICAL ROOM 10-2008	WESSELS	GMPT-33050	-	GLYCOL MAKUP PACKAGE	1.8	92	1/3	-	110/1/60	-	236	PACKAGED GLYCOL MAKEUP SKID PART OF PACKAGED GLYCOL CHILLED WATER SKID EI-8660
P-8660E	MECHANICAL ROOM 10-2008	B&G	e-1532 3EB	IN-LINE	PRIMARY GLYCOL PUMP	364	100	20	3600	460/3/60	70	400	PART OF PACKAGED GLYCOL CHILLED WATER SKID EI-8660
P-8660F	MECHANICAL ROOM 10-2008	B&G	e-1532 3EB	IN-LINE	PRIMARY GLYCOL PUMP	364	100	20	3600	460/3/60	70	400	PART OF PACKAGED GLYCOL CHILLED WATER SKID EI-8660
P-8660G	MECHANICAL ROOM 10-2008	B&G	e-1532 3EB	IN-LINE	PRIMARY GLYCOL PUMP	364	100	20	3600	460/3/60	70	400	PART OF PACKAGED GLYCOL CHILLED WATER SKID EI-8660

EXPANSION TANK SCHEDULE

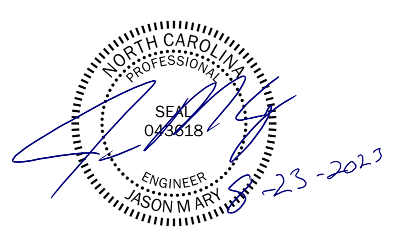
MARK	MANUFACTURER	MODEL	LOCATION	SYSTEM	CAPACITY (GALLON)	DIAMETER (IN.)	HEIGHT (IN.)	100% FULL WEIGHT (LBS)	REMARKS
TK-8660A	WESSELS	NLAP-560	MECHANICAL ROOM 10-2008	GLYCOL CHILLED WATER	147	30	53	1550	ASME RATED; PART OF PACKAGED GLYCOL CHILLED WATER SKID

PRESSURE SAFETY VALVE SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	SIZE	FLOW RATE (LB/HR)	SET PRESSURE (PSIG)	REMARKS
PSV-8620A	KUNKLE	6010	50 PSIG STEAM	1/2"	442	60	

FAN COIL UNIT SCHEDULE

MARK	SERVED	MANUFACTURER	MODEL	SUPPLY AIR (CFM)	OA (CFM)	FAN ECM MOTOR (HP)	ESP	EAT DB/WB	LAT DB/WB	CHILLED TOTAL MBH	DELTA T WATER	GPM	HEAT EAT	HEAT LAT	HEAT TOTAL MBH	DELTA T WATER	GPM	VOLT/PH/HZ	WEIGHT (LBS)	REMARKS
FCU-ST01	STAIR (10-ST-01)	DAIKEN	BCHD0301	1840	0	1	1	75	55	64	12	11	65	90	49.7	20	5	208/3/60	309	
FFU-1023	BYPASS (10-1023)	DAIKEN	BCHD0101	1000	0	1	2	-	-	-	-	-	-	-	-	-	-	115/1/60	343	FAN FILTER UNIT
FCU-2004	ELECTRICAL SUBSTATION (10-2004)	DAIKEN	BCHD0301	3120	0	1	1	75	55	112	12	20	-	-	-	-	-	208/3/60	547	
FCU-2000	UPS (10-2000)	DAIKEN	BCHD0061	550	0	1	0.5	75	55	18	12	4	-	-	-	-	-	115/1/60	197	
FCU-2005	TELECOM (10-2005)	DAIKEN	BCHD0101	850	0	1	0.5	75	55	35	12	6	-	-	-	-	-	115/1/60	353	
FCU-2008 A - E	MECH. ROOM (10-2008)	DAIKEN	BCHD0401	3340	340	1	1.5	75	55	135	12	24	65	90	90	20	9	208/3/60	760	



DAMPER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	WIDTH	HEIGHT	CONFIGURATION	REMARKS
PCD-0801	GREENHECK	VCD-23	CRT ROOM (08-0801)	24	24	DRIVE-CC-11-1CEL-0	4,000 CFM
PCD-1016	GREENHECK	VCD-23	CONVEYOR TRANSFER AREA (10-1016)	30	28	DRIVE-CC-11-1CEL-0	7,400 CFM
PCD-2008	GREENHECK	ICD-45	MECHANICAL ROOM (10-2008)	80	60	DRIVE-CC-21-2CEB-0	13,000 CFM, FOAM FILLED INSULATED
D-2000EX	RUSKIN	CD60-1	MECHANICAL ROOM (10-2008)	12	12	-	ACTUATOR PROVIDED BY CONTROLS CONTRACTOR
D-8951EX	RUSKIN	CDR25	MECHANICAL ROOM (10-2008)	16" DIAMETER, ROUND		-	316L SS CONSTRUCTION
D-8952AEX	RUSKIN	CDR25	MECHANICAL ROOM (10-2008)	22" DIAMETER, ROUND		-	304 SS CONSTRUCTION; ACTUATOR PROVIDED BY CONTROLS CONTRACTOR
D-8952BEX	RUSKIN	CDR25	MECHANICAL ROOM (10-2008)	16" DIAMETER, ROUND		-	ACTUATOR PROVIDED BY CONTROLS CONTRACTOR

HHW RECIRCULATING PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	WATS	VOLTS/PHASE/AMPS	RPM	GPM	REQUIRED FT. HD.	REMARKS
P-8901PH	BELL & GOSSETT	NRF-45	AHU-8901 HHW	270	115/1/2.1	2950	13	12	SPEED 1
P-8951PH	BELL & GOSSETT	NRF-45	AHU-8951 HHW	270	115/1/2.1	2950	13	12	SPEED 1
P-8952PH	BELL & GOSSETT	NRF-45	AHU-8952 HHW	270	115/1/2.1	2950	13	12	SPEED 1

AIR SEPARATOR SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	SYSTEM	GPM	OPERATING WEIGHT (LBS)	REMARKS
SEP-8660	B&G	5363-06 F-12-001	MECHANICAL ROOM 10-2008	GLYCOL CHILLED WATER	728	505	PART OF PACKAGED GLYCOL CHILLED WATER SKID

STEAM CONDENSATE PUMP PACKAGE SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL	MIN. RECEIVER CAPACITY (GAL)	MIN. VENT CONNECTION SIZE (IN.)	LB/HR	FILL HEAD	MOTIVE INLET PRESSURE	DISCH. PRESSURE (PSIG)	NO. OF PUMPS	COMPRESSED AIR MOTIVE PRESS	CFM	REMARKS
CP-8620A & 8620B	BLDG. 10 MECH. ROOM	ARMSTRONG	DPT-104LBRP-12	22	2	1850	6"	75	40	2	75	3.1	

STEAM TRAP SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	MAX. OPERATING PRES. PSIG	BACK PRES. PSIG	PRES. MODU. Y/N	SAFETY FACTOR	ORIFICE SIZE	REMARKS
STT-8901A	ARMSTRONG	811	AHU-8901	250	0	Y	NA		FURNISHED BY AHU MANUFACTURER
STT-8901B	ARMSTRONG	811	AHU-8901	250	0	Y	NA		FURNISHED BY AHU MANUFACTURER
STT-8901C	ARMSTRONG	3/4" 811-250	AHU-8901	250	0	Y	3	3/16"	
STT-8620A	ARMSTRONG	3/4" 811-250	STEAM PRV STATION	250	0	Y	3	3/16"	
STT-8620B	ARMSTRONG	3/4" 811-250	STEAM PRV STATION	250	0	Y	3	3/16"	
STT-8620C	ARMSTRONG	3/4" 811-250	STEAM PRV STATION	250	0	Y	3	3/16"	
STT-8951A	ARMSTRONG	811	AHU-8951	250	0	Y	NA		FURNISHED BY AHU MANUFACTURER
STT-8951B	ARMSTRONG	811	AHU-8951	250	0	Y	NA		FURNISHED BY AHU MANUFACTURER
STT-8951C	ARMSTRONG	3/4" 811-250	AHU-8951	250	0	Y	3	3/16"	
STT-8952A	ARMSTRONG	811	AHU-8952	250	0	Y	NA		FURNISHED BY AHU MANUFACTURER
STT-8952B	ARMSTRONG	811	AHU-8952	250	0	Y	NA		FURNISHED BY AHU MANUFACTURER
STT-8952C	ARMSTRONG	3/4" 811-250	AHU-8952	250	0	Y	3	3/16"	

AIR INTAKE AND RELIEF HOOD SCHEDULE

MARK	MANUFACTURER	MODEL	SERVES	VOLUME (CFM)	T.E. S.P. (IN. WG)	VELOCITY (FT/MIN)	REMARKS
AH-2008	GREENHECK	FGI-66X80	MECHANICAL ROOM 10-2008	13000	0.03	355	RELIEF
AH-8901	GREENHECK	FGI-40X40	AHU-8901	4000	0.05	360	INTAKE
AH-8951	GREENHECK	FGI-28X28	AHU-8951	2000	0.05	367	INTAKE
AH-8952	GREENHECK	FGI-54X58	AHU-8952	8000	0.05	368	INTAKE
AH-2008A - E	GREENHECK	FGI-8X14	FCU-8954 A-E	340	0.05	437	INTAKE

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MECHANICAL SCHEDULES

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
4	ALL	BULLETIN-04	N/A	23-Aug-2023
3	ALL	BULLETIN-03	N/A	26-Jun-2023
2	ALL	BULLETIN-02	N/A	04-May-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE:
EDIFICE/BUILDING: CONC010
LEVEL/FLOOR: N/A
SUB DISCIPLINE: MH
LOCATION CODE: CONC
LOCATION/GRID: N/A
CCI CODE: YELLOW
PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No
ENTERPRISE GROUP: CDAP
DRAWING INTENTION:
DRAWING SCALE: None
CRITICAL BUSINESS: Yes
EQUIPMENT CLASSIFICATION:
ALTERNATE DOCUMENT ID:
MERIDIAN REV:
CRITICAL HSE: No
VENDOR:
DOCUMENT ID: CONC010-MH-00006001
NON-CRITICAL: No
ENGINEERING AGENCY DOC ID:

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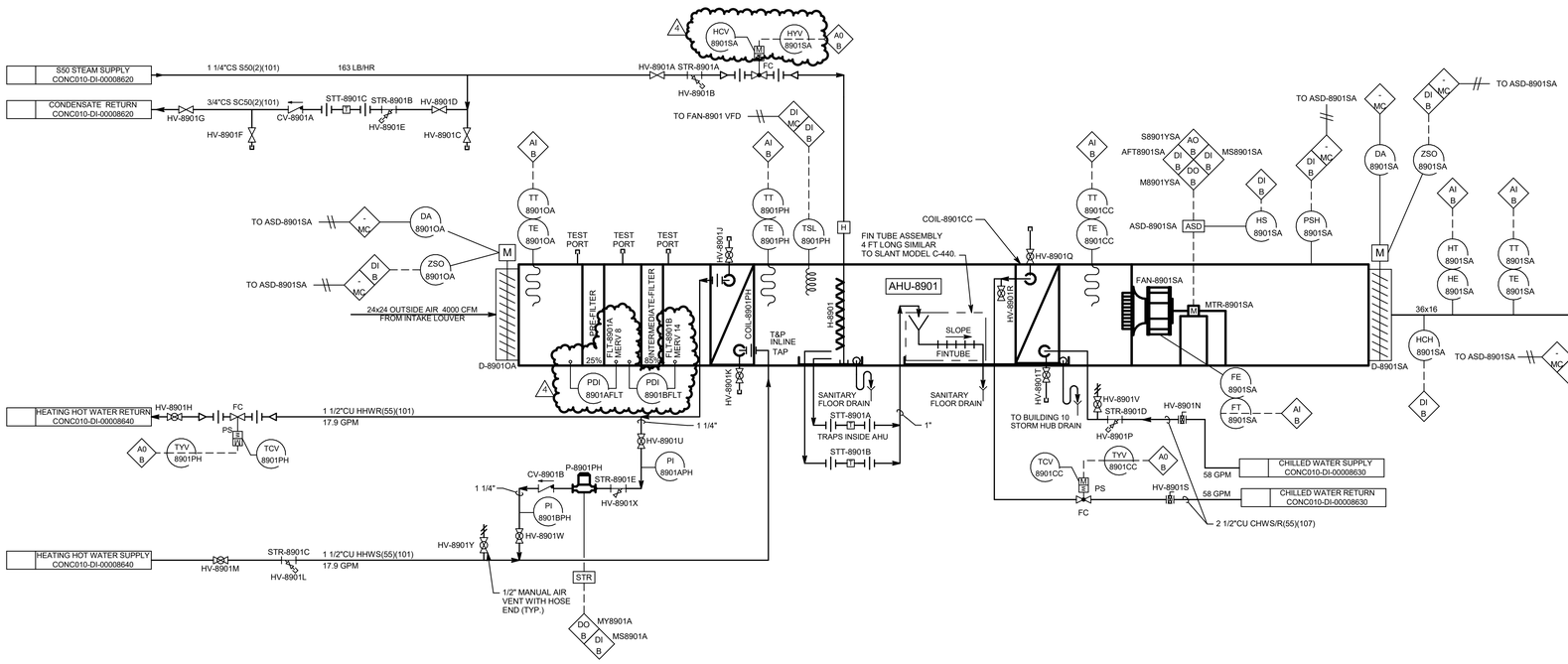

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049648 JASON M ARTZ
12-20-2023

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AHU-8901 AF&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
4	ALL	BULLETIN-07	N/A	20-Dec-2023
3	ALL	BULLETIN-05	N/A	13-Oct-2023
2	ALL	BULLETIN-03	N/A	26-Jun-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC010	N/A
SUB DISCIPLINE	LOCATION CODE / LOCATION/GRID	CCI CODE	PROJECT NAME
MI	CONC / N/A	YELLOW	CONC-003-5983
CRITICAL QUALITY	ENTERPRISE GROUP	DRAWING INTENTION	DRAWING SCALE
No	CDAP		None
CRITICAL BUSINESS	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
Yes			
CRITICAL HSE	VENDOR	DOCUMENT ID	
No		CONC010-MI-00008901	
NON-CRITICAL	ENGINEERING AGENCY DOC ID		
No			

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AHU-8902, 8903 AF&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
3	ALL	BULLETIN-07	N/A	20-Dec-2023
2	ALL	BULLETIN-05	N/A	13-Oct-2023
1	ALL	BULLETIN-03	N/A	26-Jun-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	PROJECT NAME: CONC-003-5983
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	DRAWING SCALE: None
CRITICAL HSE: No	VENDOR		MERIDIAN REV
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID	DOCUMENT ID: CONC010-MI-00008902	

SEAL 040818 NORTH CAROLINA PROFESSIONAL ENGINEER JASON M ARY
12-20-2023

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ROOF

S50 STEAM SUPPLY CONC010-DI-00008620 — 1"CS S50(2)(101) — 83 LB/HR

STEAM CONDENSATE RETURN CONC010-DI-00008620 — 3/4"CS SC50(2)(101) — HV-8951G — CV-8951A — STT-8951C — STR-8951B — HV-8951D — HV-8951E — HV-8951F — HV-8951C

HEATING WATER SUPPLY CONC010-DI-00008640 — 1 1/2"CU HHWS(55)(107) — HV-8951H — STR-8951C — 8 GPM — HV-8951J — HV-8951U — PI 8951BPH — 1 1/4" — CV-8951B — P-8951PH — STR-8951E — HV-8951V — 1/2" MANUAL AIR VENT WITH HOSE END (TYP.)

HEATING WATER RETURN CONC010-DI-00008640 — 1 1/2"CU HHWR(55)(107) — HV-8951K — 8 GPM — HV-8951X — PI 8951APH — HV-8951T — STR — 1 1/4"

OUTSIDE AIR BUILDING 10 INTAKE VENT — 1,120 CFM

HCV 8951SA — HYV 8951SA — PS — FC — HV-8951A — STR-8951A — HV-8951B — 1"CS S50(2)(101) — 1"CS S50(2)(101)

2 1/2"CU CHWR(55)(107) — 38 GPM — CHILLED WATER RETURN CONC010-DI-00008630

2 1/2"CU CHWS(55)(107) — 38 GPM — CHILLED WATER SUPPLY CONC010-DI-00008630

HV-8951S — HV-8951N — TYV 8951CC — TCV 8951CC — PS — FC — HV-8951P — STR-8951D — HV-8951W

TT 8951SA — TE 8951SA — 30x20 — HCH 8951SA — 4,250 CFM — 2/3 DOWNSTREAM DUCT — PT 8951SA

TO ASD-8951SA — PSH 8951SA — D-8951SA — DA 8951SA — ZSO 8951SA — TO ASD-8951SA

SY8951SA — AFT8951SA — MY8951SA — MS8951SA — ASD-8951SA — HS 8951SA — TEST PORT — TEST PORT

TT 8951MA — TE 8951MA — TEST PORT — TEST PORT — TEST PORT — HV-8951L — PSL 8951L

TYV 8951PH — TCV 8951PH — PS — FC — TT 8951PH — TE 8951PH — TSL 8951PH — DI MC B

TT 8951CC — TE 8951CC

FIN TUBE ASSEMBLY 4 FT LONG SIMILAR TO SLANT MODEL C-440

AHU-8951

D-8951OA — D-8951RA — (GALV) — 30x18 — PT 8951RA — PSL 8951RA — HT 8951RA — TEST PORT — DA 8951OA — DA 8951RA — ZSO 8951RA — ZSO 8951OA — TO ASD-8951SA — TO ASD-8951 — SD 8951RA — TT 8951RA — TE 8951RA

FLT-8951A MERV 8 (85%) — FLT-8951B MERV 13 (85%) — PDI 8951AFLT — PDI 8951BFLT — COIL-8951PH — H-8951 — HV-8951M — SLOPE — FINTUBE — SANITARY FLOOR DRAIN — STT-8951A — STT-8951B — 1" — CONDENSATE DRAIN PAN — TO BUILDING 10 STORM HUB DRAIN

HV-8951R — COIL-8951CC — HV-8951Q — FAN-8951SA — MTR-8951SA — FLT-8951C (95% DOP) — PDI 8951CFLT — FE 8951SA — FT 8951SA

TYV 8951ARH — TCV 8951ARH — PS — HV-8951AB — RHC-8951 — STR-8951AA — HV-8951AD — HV-8951AE — HV-8951AA — 16 GPM 1 1/2"CU HHWR(55)(101) — HHW RETURN CONC010-DI-00008640 — 16 GPM 1 1/2"CU HHWS(55)(101) — HHW SUPPLY CONC010-DI-00008640 — HV-8951AC

FE-1012Q — FT 1012SAQ — PS — FE 1012SAQ — TT 1012RA — TE 1012RA — LVS 1012 — DI B — DI B — LVR 1006 — INDEXED TO EXHAUST VALVE LVE-1006 VOLUMETRIC TRACKING

FE-1006Q — FT 1006SAQ — PS — FE 1006SAQ — TT 1006RA — TE 1006RA — LVS 1006 — TT 1013RA — TE 1013RA — LVS 1013 — TT 1014RA — TE 1014RA — LVS 1014 — TT 1011RA — TE 1011RA — LVS 1011 — TT 1010RA — TE 1010RA — LVS 1010 — TT 1009RA — TE 1009RA — LVS 1009

FE-1009Q — FT 1009SAQ — PS — FE 1009SAQ

D-8951EX — MTR-8951EX — FAN-8951EX — DA 8951EX — ZSO 8951EX — TO ASD-8951EX — PT 8951EX — PSL 8951EX — LVE 1006 — INDEX CONTROL POSITION 1 - 1120 CFM POSITION 2 - 650 CFM

SY8951EX — AFT8951EX — MY8951EX — MS8951EX — ASD-8951EX — HS 8951EX

2ND FLOOR

(GALV) — PDT 1012Q — VD — HEPA-1012A HEPA-1012B — 500 CFM — BLDG 10 CONVEYOR TRANSFER AREA 10-1016 CNC — PAL-IN (C) 10-1012 — 22x6 — 500 CFM — 75 CFM TO PAL-IN (D) 10-1011 — 75 CFM FROM SAMPLING SUITE 10-1006

HEPA-1006A HEPA-1006B HEPA-1006C HEPA-1006D HEPA-1006E — 2,400 CFM TOTAL — PDT 1006Q — SAMPLING (C) 10-1006 — SASH OPEN: 1,120 CFM SASH CLOSE: 650 CFM — BSC SASH OPEN: 830-1,150 CFM (ADJUSTABLE TO ROOM +0.13" W.C.) BSC SASH CLOSED: 1,620 CFM — 20x6 (TYP. 4) — TT 1006RMQ — TE 1006RMQ — HS — DO — (316LSS) — BSC — XA 1006AQ — MS 1006AQ — 150 CFM TO MAL-IN (C) 10-1009 — 75 CFM TO PAL-IN (C) 10-1012 — 75 CFM TO PAL-OUT 10-1013 — 150 CFM TO MAL-OUT 10-1014

HEPA-1013A — 190 CFM — PDT 1013Q — PAL-OUT (D) 10-1013 — 10x6 — 190 CFM — 75 CFM TO CONV. TRANS. AREA 10-1016 — 75 CFM FROM SAMPLING SUITE 10-1006

HEPA-1014A — 230 CFM — PDT 1014Q — MAL-OUT (D) 10-1014 — 12x6 — 230 CFM — 150 CFM TO CONV. TRANS. AREA 10-1016 — 150 CFM FROM SAMPLING SUITE 10-1006

HEPA-1011A — 170 CFM — PDT 1011Q — PAL-IN (D) 10-1011 — 10x6 — 170 CFM — 75 CFM TO CONV. TRANS. AREA 10-1016 — 75 CFM FROM PAL-IN (C) 10-1012

HEPA-1010A — 180 CFM — PDT 1010Q — MAL-IN (D) 10-1010 — 10x6 — 180 CFM — 150 CFM TO CONV. TRANS. AREA 10-1016 — 150 CFM FROM MAL-IN (C) 10-1009

HEPA-1009A HEPA-1009B — 580 CFM — PDT 1009Q — MAL-IN (C) 10-1009 — 20x6 — 580 CFM — 150 CFM TO MAL-IN (D) 10-1010 — 150 CFM FROM SAMPLING SUITE 10-1006

BLDG 10 CONVEYOR TRANSFER AREA 10-1016 CNC

(316LSS) — (GALV)

1ST FLOOR

NORTH CAROLINA PROFESSIONAL SEAL 049618 ENGINEER JASON M ARY — 12-20-2023

MUSSETT NICHOLAS ASSOCIATES — ENGINEERS + ARCHITECTS — 502 South West Street, Indianapolis, Indiana 46225 — 317.631.9241 — North Carolina Firm License No. C-4041 — MNA COMM NO.: 2022175			Lilly U.S.A.	AHU-8951 AF&ID B10
5 ALL BULLETIN-07	N/A	20-Dec-2023	SYSTEM TYPE	EDIFICE/BUILDING: CONC010 — LEVEL/FLOOR: N/A
4 ALL BULLETIN-05	N/A	13-Oct-2023	SUB DISCIPLINE: MI — LOCATION CODE: CONC — LOCATION/GRID: N/A	CCI CODE: YELLOW — PROJECT NAME: CONC-003-5983
3 ALL BULLETIN-03	N/A	26-Jun-2023	CRITICAL QUALITY: No — ENTERPRISE GROUP: CDAP	DRAWING INTENTION — DRAWING SCALE: None
2 ALL BULLETIN-02	N/A	04-May-2023	CRITICAL BUSINESS: Yes — EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID — MERIDIAN REV
1 ALL BULLETIN-01	N/A	30-Mar-2023	CRITICAL HSE: No — VENDOR	DOCUMENT ID: CONC010-MI-00008951
REV / ZONE / PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE	NON-CRITICAL: No — ENGINEERING AGENCY DOC ID	
REVISIONS				

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ROOF

S50 STEAM SUPPLY CONC010-DI-00008620 — 1 1/2"CS S50(2)(101) — 350 LB/HR

STEAM CONDENSATE RETURN CONC010-DI-00008620 — 3/4"CS SC50(2)(101) — HV-8952G — CV-8952A — STT-8952C — STR-8952B — HV-8952D — HV-8952E — HV-8952F — HV-8952C

HEATING WATER SUPPLY CONC010-DI-00008640 — 3"CU HHWS(55)(107) — HV-8952H — STR-8952C — 84.2 GPM — HV-8952J — HV-8952U — PI 8952BPH — 1 1/4" — CV-8952B — P-8952PH — STR-8952E — HV-8952X — HV-8952T — PI 8952APH — HV-8952V — 1/2" MANUAL AIR VENT WITH HOSE END (TYP.)

HEATING WATER RETURN CONC010-DI-00008640 — 3"CU HHWR(55)(107) — HV-8952K — 84.2 GPM — STR — 1 1/4"

HV-8952A — STR-8952A — HV-8952B — FC — HCV 8952SA — HYV 8952SA — PS

CHILLED WATER RETURN CONC010-DI-00008630 — 6"CS CHWR(6)(107) — 430.1 GPM — HV-8952S

CHILLED WATER SUPPLY CONC010-DI-00008630 — 6"CS CHWS(6)(107) — 430.1 GPM — HV-8952N — TYV 8952CC — TCV 8952CC — FC — PS

OUTSIDE AIR BUILDING 10 INTAKE VENT — 6,000 CFM — TT 8952OA — TE 8952OA — D-8952OA — DA 8952OA — TEST PORT

RETURN AIR CONC010-MI-00008953 — SD 8952DRA — TO ASD-8952SA — TT 8952RA — TE 8952RA — PT 8952RA — PSL 8952RA — HT 8952RA — D-8952RA — DA 8952RA — ZSO 8952RA

RETURN AIR CONC010-MI-00008953 — SD 8952CRA — SD 8952ARA — SD 8952BRA

FIN TUBE ASSEMBLY 16 FT LONG SIMILAR TO SLANT MODEL C-440

AHU-8952 — COIL-8952PH — COIL-8952CC — H-8952 — HV-8952L — HV-8952M — HV-8952R — HV-8952Q — SLOPE — FINTUBE

FLT-8952A MERV 8 (25%) — FLT-8952B MERV 13 (85%) — PDI 8952AFLT — PDI 8952BFLT

SANITARY FLOOR DRAIN — STT-8952A — STT-8952B — 1" — CONDENSATE DRAIN PAN — TO BUILDING 10 STORM HUB DRAIN

FAN-8952SA — MTR-8952SA — FLT-8952C (95% DOP) — PDI 8952CFLT — FE 8952SA — FT 8952SA — SY8952SA — AFT8952SA — MY8952SA — MS8952SA — ASD-8952SA — HS 8952SA — PSH 8952SA — TT 8952SA — TE 8952SA — HSH 8952SA — PT 8952SA — TT 8952CC — TE 8952CC

51.000 — 2/3 DOWNSTREAM DUCT — (304SS)

D-8952SA — DA 8952SA — ZSO 8952SA — SUPPLY CON010-MI-00008953

2ND FLOOR

130 CFM — PAL (NC) 10-2015 — TT 2015RM — TE 2015RM — RHC-2015 — HV-2015B — HV-2015C — HV-2015A — HV-2015D — HV-2015E — STR-2015A — 5 GPM — 3/4"CU HHWS(55)(101) — 5 GPM — 3/4"CU HHWR(55)(101)

HHW SUPPLY CONC010-DI-00008640 — HHW RETURN CONC010-DI-00008640

RHC-1021 — HV-1021B — HV-1021C — HV-1021A — HV-1021D — HV-1021E — STR-1021A — 8 GPM — 3/4"CU HHWS(55)(101) — 8 GPM — 3/4"CU HHWR(55)(101)

RHC-1018 — HV-1018B — HV-1018C — HV-1018A — HV-1018D — HV-1018E — STR-1018A — 1 GPM — 3/4"CU HHWS(55)(101) — 1 GPM — 3/4"CU HHWR(55)(101)

RHC-1017 — HV-1017B — HV-1017C — HV-1017A — HV-1017D — HV-1017E — STR-1017A — 1 GPM — 3/4"CU HHWS(55)(101) — 1 GPM — 3/4"CU HHWR(55)(101)

RHC-1016A — HV-1016AB — HV-1016AC — HV-1016AA — HV-1016AD — HV-1016AE — STR-1016AA — 30 GPM — 2"CU HHWS(55)(101) — 30 GPM — 2"CU HHWR(55)(101)

RHC-1016B — HV-1016BB — HV-1016BC — HV-1016BA — HV-1016BD — HV-1016BE — STR-1016BA — 30 GPM — 2"CU HHWS(55)(101) — 30 GPM — 2"CU HHWR(55)(101)

RHC-1005 — HV-1005B — HV-1005C — HV-1005A — HV-1005D — HV-1005E — STR-1005A — 6 GPM — 1"CU HHWS(55)(101) — 6 GPM — 1"CU HHWR(55)(101)

1ST FLOOR

RETURN CONC010-MI-00008953

BLDG 10 LOADING DOCK 10-1000 NC — 200 CFM — PAL (CNC) 10-1021 — PDT 1021Q — TT 1021RM — TE 1021RM

BLDG 10 LOADING DOCK 10-1000 NC — 290 CFM — PAL (CNC) 10-1018 — PDT 1018Q — TT 1018RM — TE 1018RM

12x8 — BLDG 10 LOADING DOCK 10-1000 NC — 320 CFM — MAL (CNC) 10-1017 — PDT 1017Q — TT 1017RM — TE 1017RM

BLDG 10 LOADING DOCK 10-1000 NC — DA 1016 — PCD-1016 — PDT 1016 — PDT 1016Q — 7,965 CFM — 10,300 CFM — 7,965 CFM — CONVEYOR TRANSFER AREA (CNC) 10-1016 — TT 1016ARM — TE 1016ARM — TT 1016BRM — TE 1016BRM

24x16 (304SS) — WET CHAMBER — (0/1000/2350 CFM) — FAN SPEED STATE (LOW SPEED) 1,000 CFM — FAN SPEED STATE (HIGH SPEED) 2,350 CFM — PALLET WASHER

1,550 CFM — API STORAGE 10-1005 — TT 1005ARM — TE 1005ARM — TT 1005RMQ — TE 1005RMQ

(TYP OF 8) 1005AQ THROUGH 1005HQ — AI TIR — AI TEST — TT 1005XQ — TE 1005XQ — FREEZERS

D-8952AEX — TO ASD-8952AEX — PT 8952AEX — PSL 8952AEX — ZSO 8952AEX — DA 8952AEX — (304SS)

SY8952AEX — AFT8952AEX — MY8952AEX — MS8952AEX — ASD-8952AEX — HS 8952AEX — MTR-8952AEX — FAN-8952AEX

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Lilly U.S.A.

AHU-8952 AF&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
7	ALL	BULLETIN-08	N/A	13-Feb-2024
6	ALL	BULLETIN-07	N/A	20-Dec-2023
5	ALL	BULLETIN-05	N/A	13-Oct-2023
4	ALL	BULLETIN-04	N/A	23-Aug-2023
3	ALL	BULLETIN-03	N/A	26-Jun-2023

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW	PROJECT NAME: CONC-003-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: None
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MI-00008952	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043884 JASON M ARP — 10/3-2024

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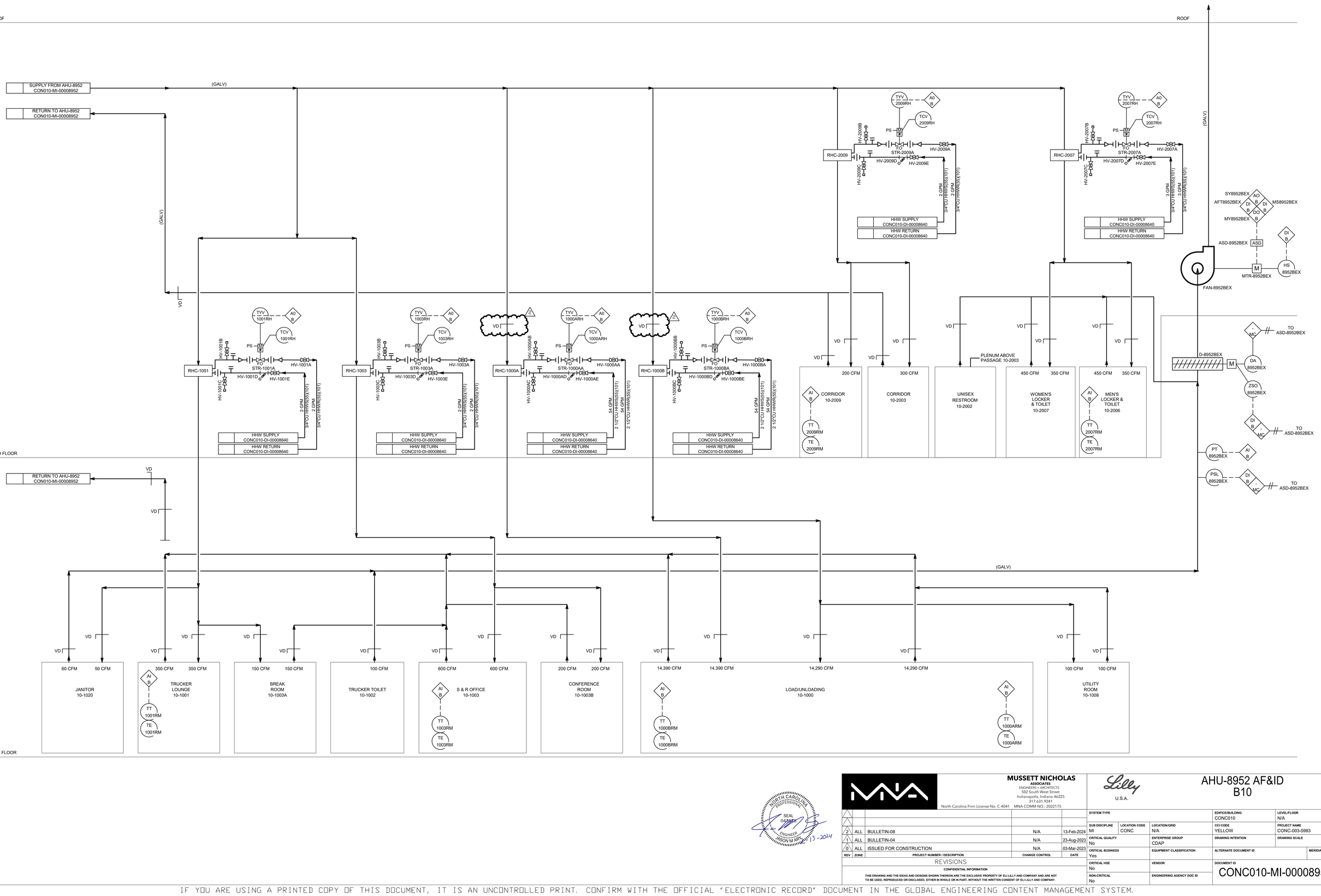

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REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
2	ALL	BULLETIN-08	N/A	13-Feb-2024
1	ALL	BULLETIN-04	N/A	23-Aug-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 042878 JASON MARK 13-2024

SYSTEM TYPE		EDIFICE/BUILDING CONC010	LEVEL/FLOOR N/A
SUB DISCIPLINE MI	LOCATION CODE CONC	LOCATION/GRID N/A	CCI CODE YELLOW	PROJECT NAME CONC-003-5983
CRITICAL QUALITY No	ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE None
CRITICAL BUSINESS Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No	VENDOR	DOCUMENT ID CONC010-MI-00008953	
NON-CRITICAL No	ENGINEERING AGENCY DOC ID		

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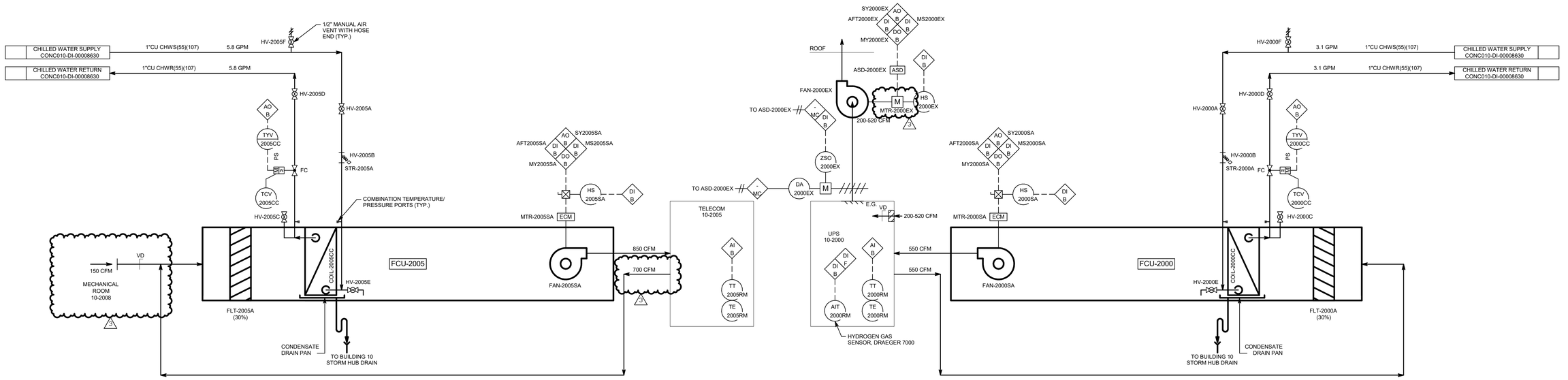

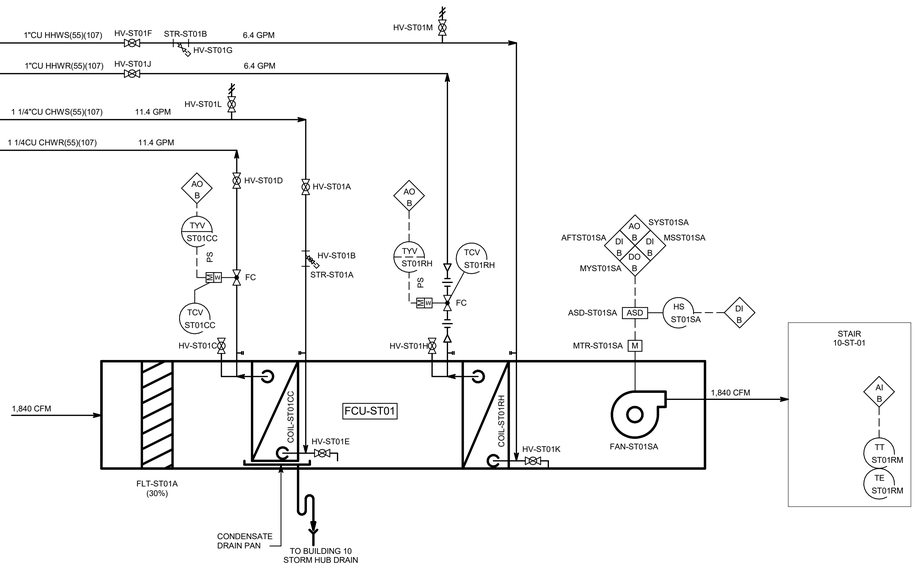

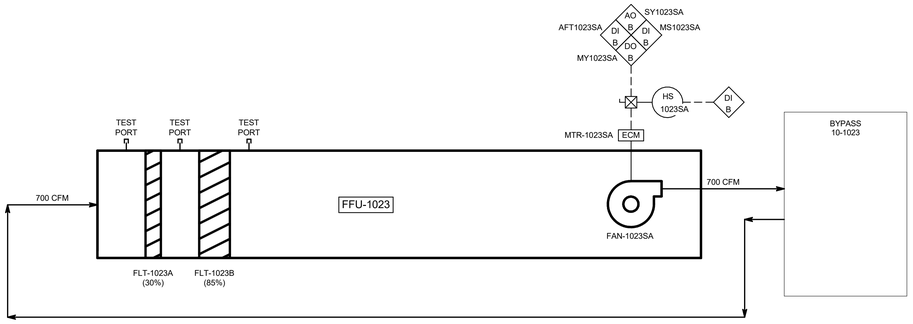

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 035818 ENGINEER JASON M MAY 12-23-2023

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North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

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FCU-2000, 2004, 2005, & ST01 AF&ID B10

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
3	ALL	BULLETIN-04	N/A	23-Aug-2023
2	ALL	BULLETIN-03	N/A	26-Jun-2023
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

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SYSTEM TYPE		EDIFICE/BUILDING	LEVEL/FLOOR
		CONC010	N/A
SUB DISCIPLINE	LOCATION CODE	LOCATION/GRID	PROJECT NAME
MI	CONC	N/A	CONC-003-5983
CO CODE		PROJECT NAME	
YELLOW		CONC-003-5983	
CRITICAL QUALITY		ENTERPRISE GROUP	DRAWING INTENTION / DRAWING SCALE
No		CDAP	None
CRITICAL BUSINESS		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID / MERIDIAN REV
Yes			
CRITICAL HSE		VENDOR	DOCUMENT ID
No			CONC010-MI-00008954
NON-CRITICAL		ENGINEERING AGENCY DOC ID	
No			

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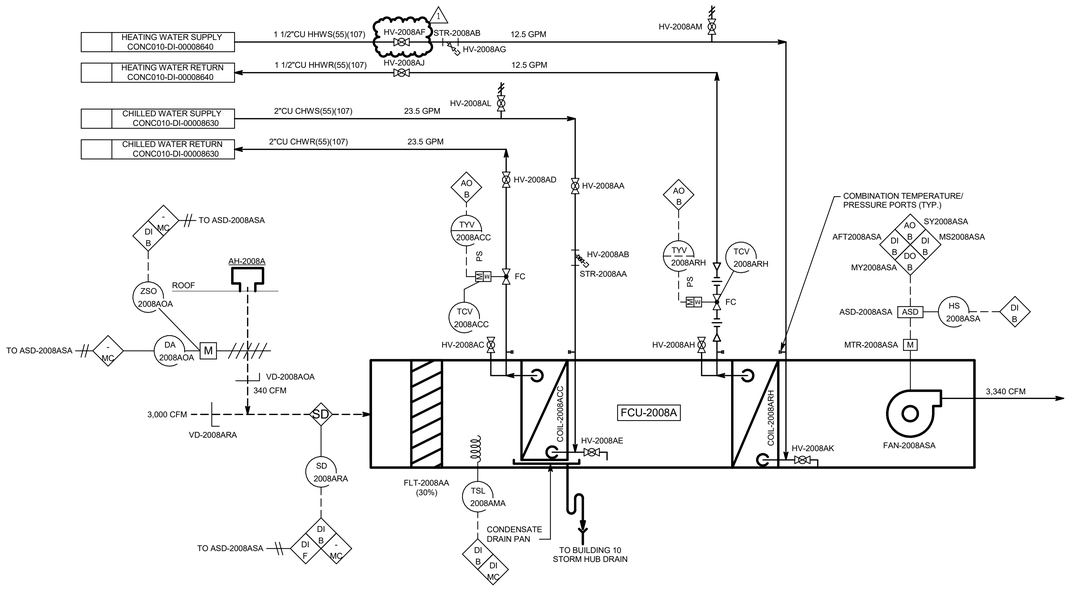

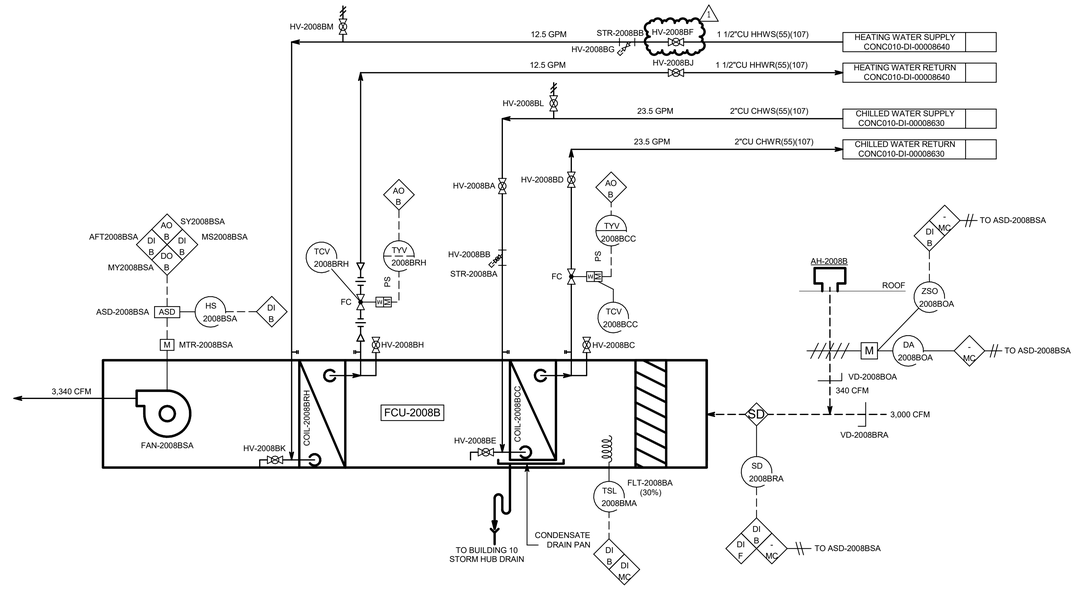

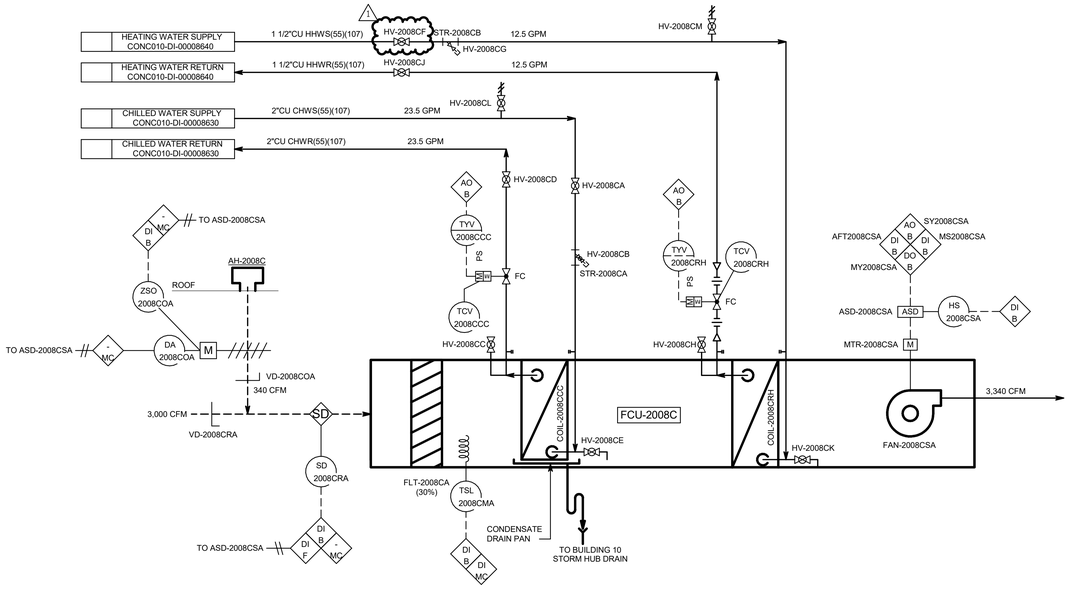

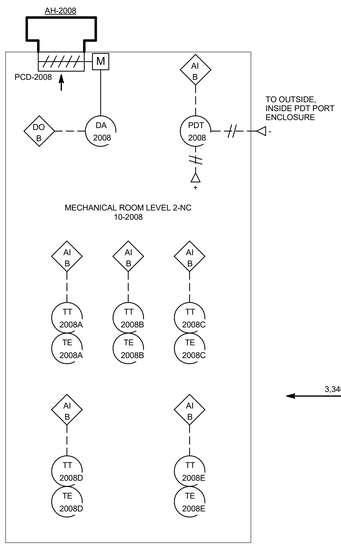

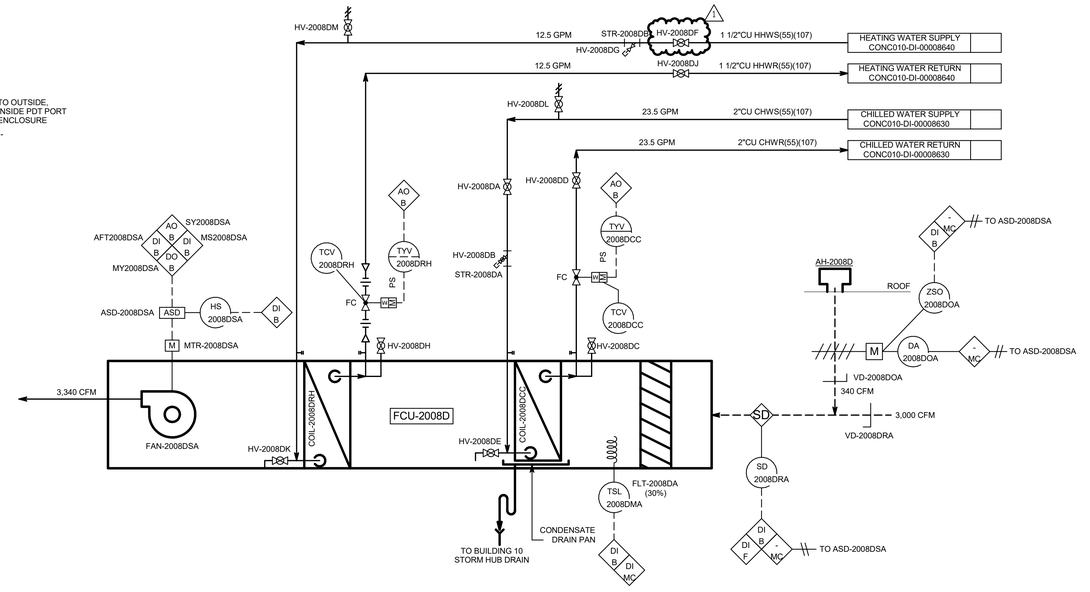

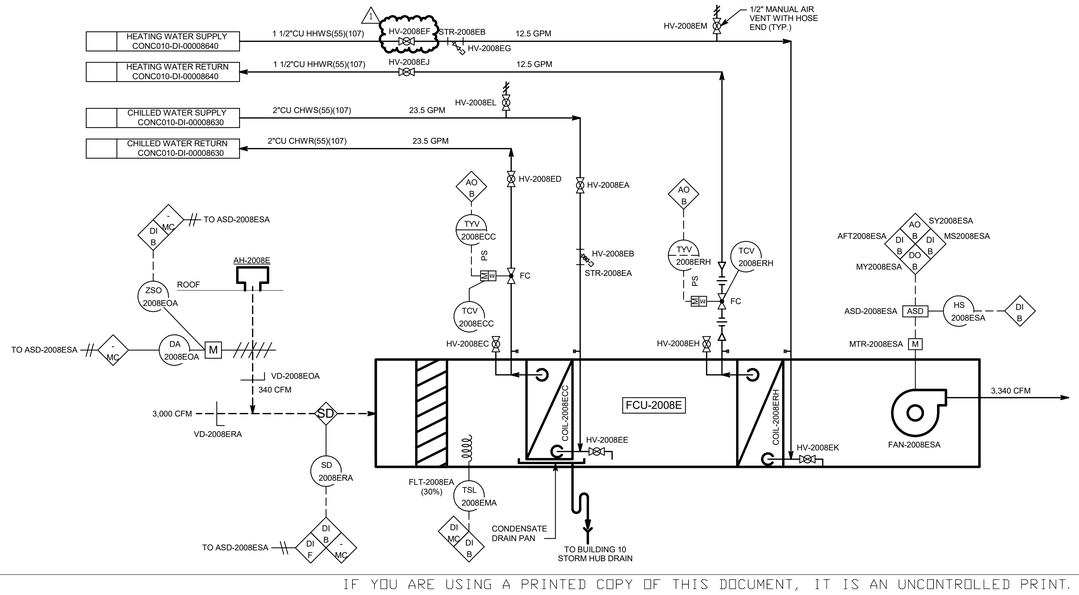

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049763 JASON M ANY 10-30-23

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ENGINEERS + ARCHITECTS
502 South West Street
Indianapolis, Indiana 46225
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North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

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REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MI	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION
DRAWING SCALE: None		CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION
ALTERNATE DOCUMENT ID	MERIDIAN REV	CRITICAL HSE: No	VENDOR
DOCUMENT ID: CONC010-MI-00008955		NON-CRITICAL: No	ENGINEERING AGENCY DOC ID

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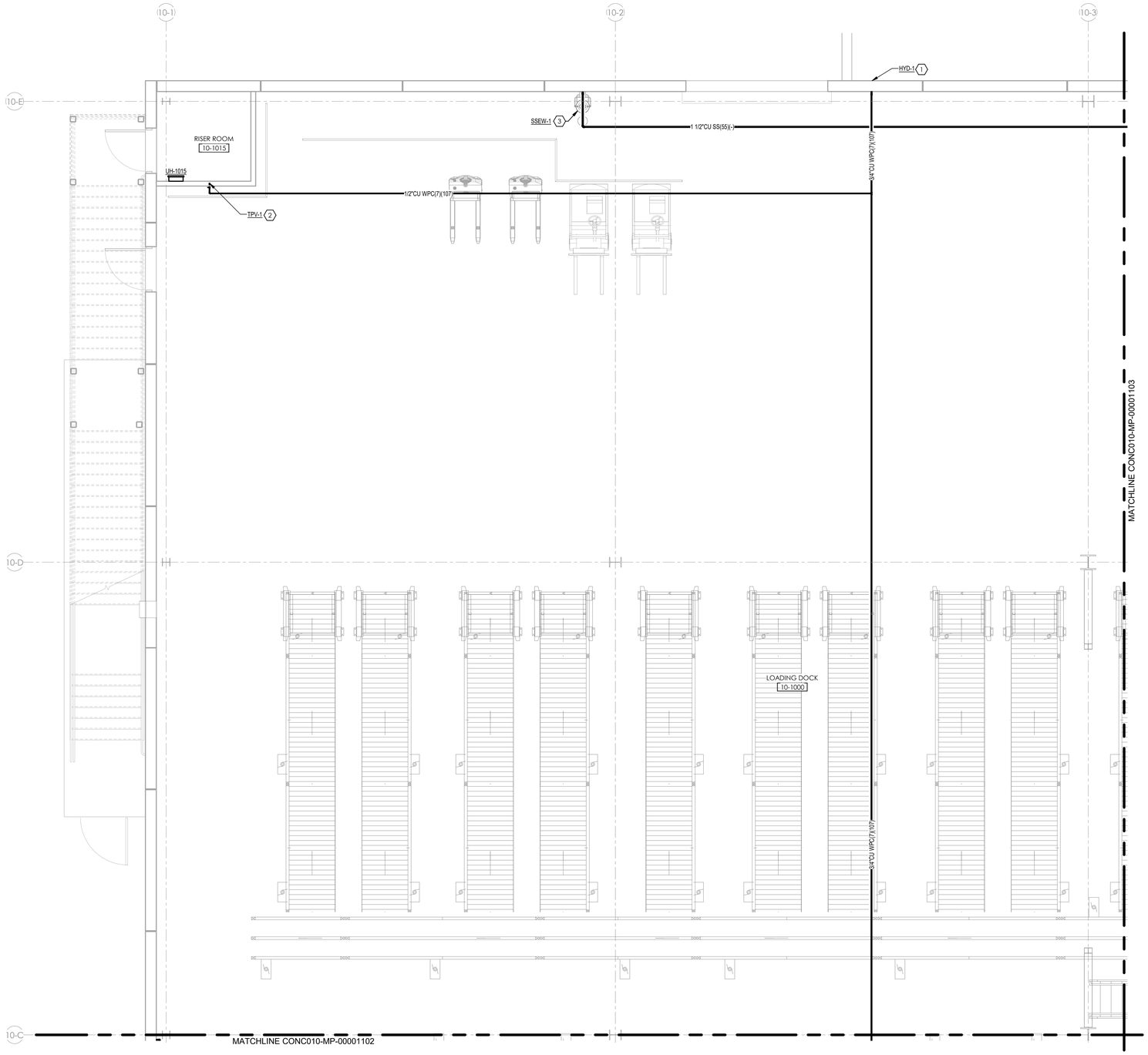


GENERAL NOTES:

G1 REFER TO PIPING DIAGRAMS FOR MORE INFORMATION ON PIPING ACCESSORIES AND PIPE SIZES.

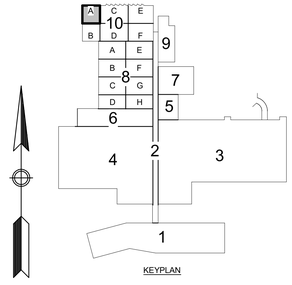
G2 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.

KEYED NOTES:

1 PROVIDE EXTERIOR HOSE BIBB (HYD-1). MOUNT +-1'-6" AFF.

2 PROVIDE TRAP PRIMER PIPING FOR FLOOR DRAIN. COORDINATE LOCATION WITH PENETRATION AND PIPING FURNISHED BY CORE & SHELL CONTRACTOR. INSTALL TRAP PRIMER @ ±12" A.F.F.

3 PROVIDE 1 1/2" CU SS(55)(-) TO SAFETY SHOWER. PROVIDE WITH LOCKABLE BALL VALVE AND LOCK OPEN.



KEYPLAN

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NORTH CAROLINA PROFESSIONAL SEAL 043024 ENGINEER JASON M ARY
3-3-2023

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317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

INTERIOR SERVICE PIPING B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-C - 10-E:10-1 - 10-3	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MP-00001101	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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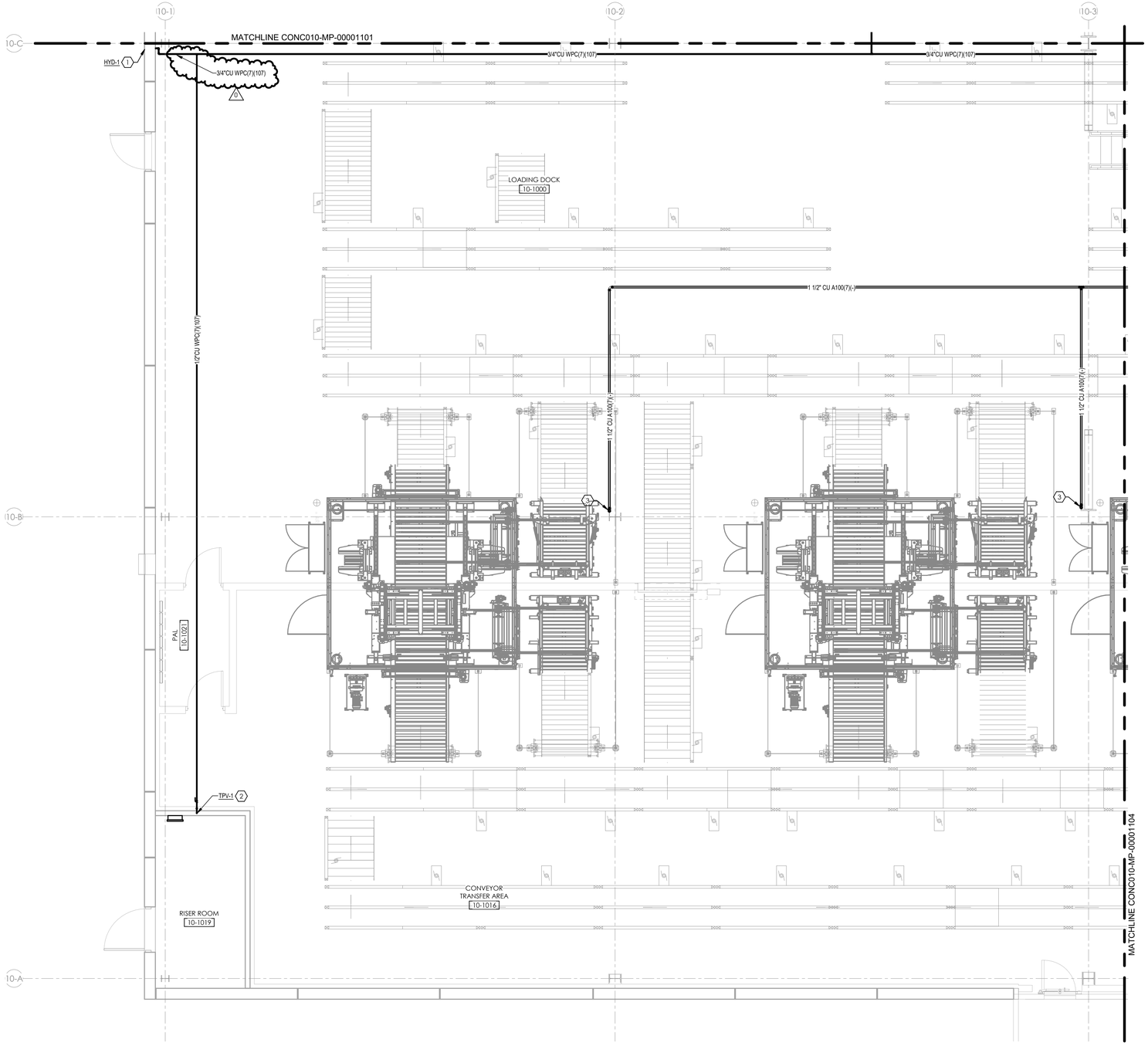

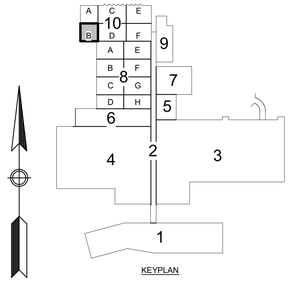

KEYPLAN

GENERAL NOTES:

G1 REFER TO PIPING DIAGRAMS FOR MORE INFORMATION ON PIPING ACCESSORIES AND PIPE SIZES.

G2 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.

KEYED NOTES:

0
1 PROVIDE EXTERIOR HOSE BIBB (HYD-1). MOUNT +-1'-6" AFF.
2 PROVIDE TRAP PRIMER PIPING FOR FLOOR DRAIN. COORDINATE LOCATION WITH PENETRATION AND PIPING FURNISHED BY CORE & SHELL CONTRACTOR. INSTALL TRAP PRIMER @ ±12" A.F.F.
3 PROVIDE 1 1/2" CU A100(7)(-) DOWN COLUMN. TERMINATE WITH BALL VALVE +-6'-0" AFF. COORDINATE FINAL LOCATION WITH LATEST DEMATIC EQUIPMENT DESIGN.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043024 JASON M MAY 03-3-2023

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Lilly U.S.A.

INTERIOR SERVICE PIPING B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE			EDIFICE/BUILDING CONC010	LEVEL/FLOOR 01
SUB DISCIPLINE MP	LOCATION CODE CONC	LOCATION/GRID COL. 10-A - 10-C:10-1 - 10-3	CCI CODE YELLOW	PROJECT NAME CONC-300-5983
CRITICAL QUALITY No		ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE 1/4" = 1'-0"
CRITICAL BUSINESS Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No		VENDOR	DOCUMENT ID CONC010-MP-00001102	
NON-CRITICAL No		ENGINEERING AGENCY DOC ID		

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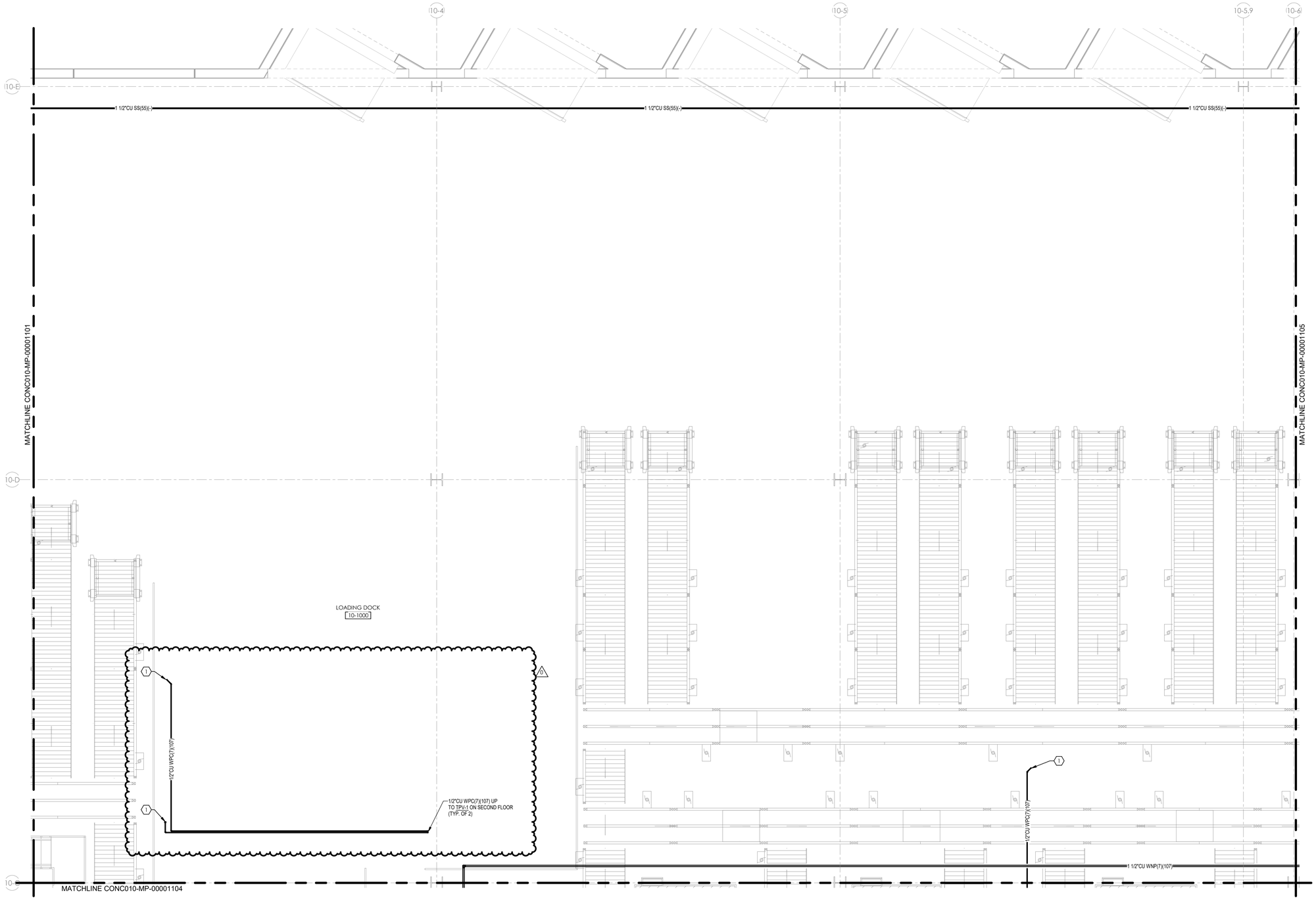
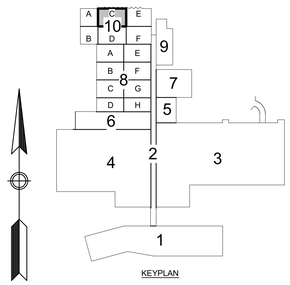
G2 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.

KEYED NOTES:

1 PROVIDE TRAP PRIMER PIPING FOR FLOOR DRAIN ON SECOND FLOOR.





KEYPLAN

NORTH CAROLINA PROFESSIONAL SEAL 043282 ENGINEER JASON M MIR 03-2023

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Lilly U.S.A.

INTERIOR SERVICE PIPING B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-C - 10-E:10-3 - 10-6	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MP-00001103	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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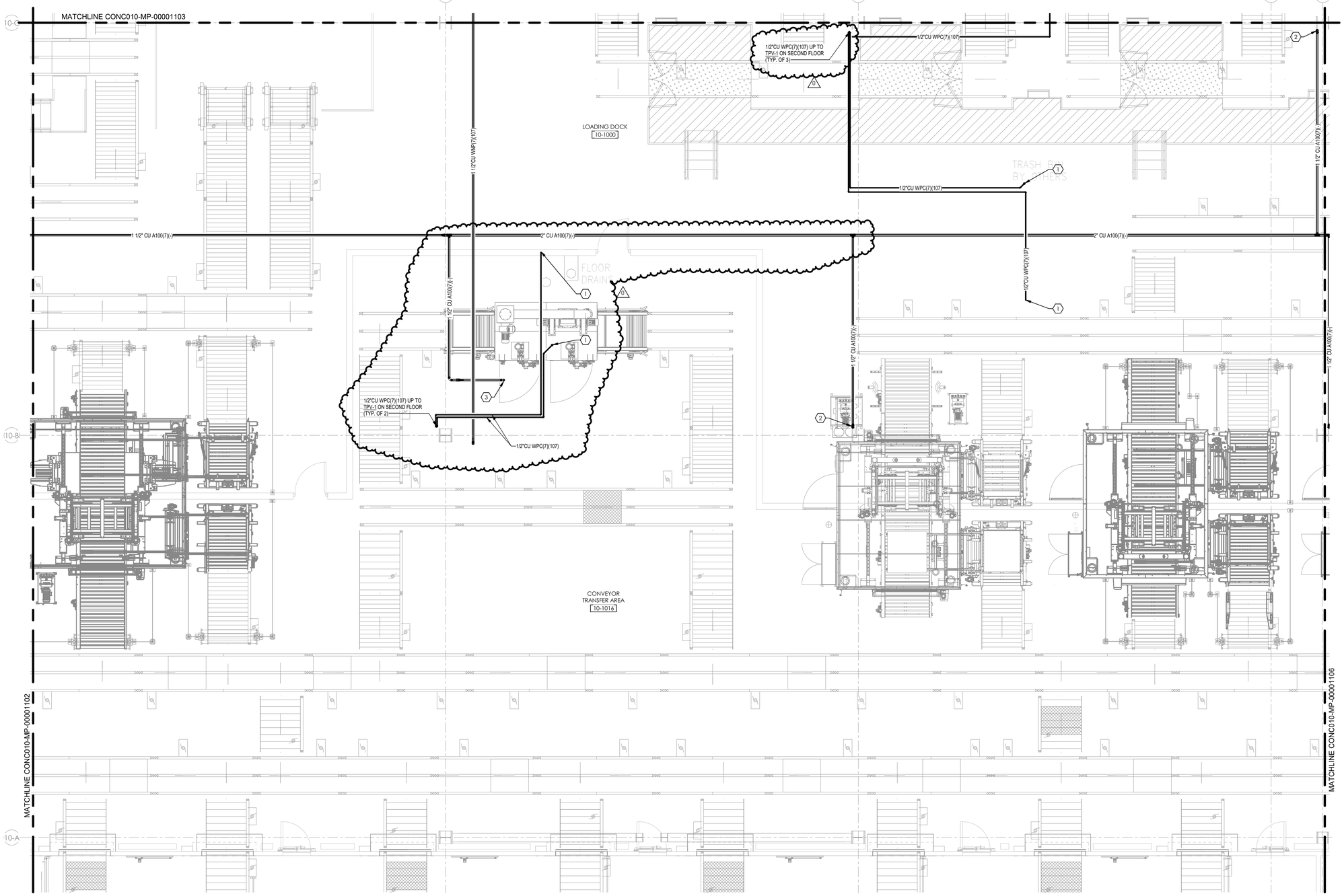

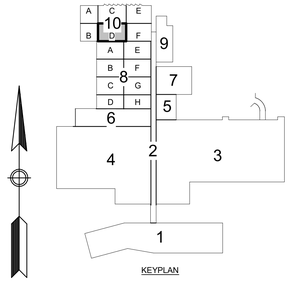

KEYPLAN

GENERAL NOTES:

G1 REFER TO PIPING DIAGRAMS FOR MORE INFORMATION ON PIPING ACCESSORIES AND PIPE SIZES.

G2 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.

KEYED NOTES:

1 PROVIDE TRAP PRIMER PIPING FOR FLOOR DRAIN ON SECOND FLOOR.

2 PROVIDE 1 1/2" CU A100(7)(-) DOWN COLUMN. TERMINATE WITH BALL VALVE +6'-0" AFF. COORDINATE FINAL LOCATION WITH LATEST DEMATIC EQUIPMENT DESIGN.

3 PROVIDE 1 1/2" CU WNP(7)(107) AND 1 1/2" CU A100(7)(-) TO PALLET WASHER. TERMINATE WITH BALL VALVE. PROVIDE 316L STAINLESS STEEL CHASE TO EQUIPMENT. COORDINATE FINAL LOCATION AND CONNECTION SIZE WITH LATEST PALLET WASHER SHOP DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON STAINLESS STEEL CHASE.

SEAL 043024 ENGINEER JASON M MAY 03-2023

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Lilly U.S.A.

INTERIOR SERVICE PIPING B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE			EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-C:10-3 - 10-6	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"	
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV	
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MP-00001104		
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID			

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GENERAL NOTES:

G1 REFER TO PIPING DIAGRAMS FOR MORE INFORMATION ON PIPING ACCESSORIES AND PIPE SIZES.

G2 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.

KEYED NOTES:

1 PROVIDE EXTERIOR HOSE BIBB (HYD-1). MOUNT +-1'-6" AFF.

2 PROVIDE TRAP PRIMER PIPING FOR FLOOR DRAIN. COORDINATE LOCATION WITH PENETRATION AND PIPING FURNISHED BY CORE & SHELL CONTRACTOR.

3 PROVIDE 1 1/2" CU SS(55)(-) TO SAFETY SHOWER. PROVIDE WITH LOCKABLE BALL VALVE AND LOCK OPEN.

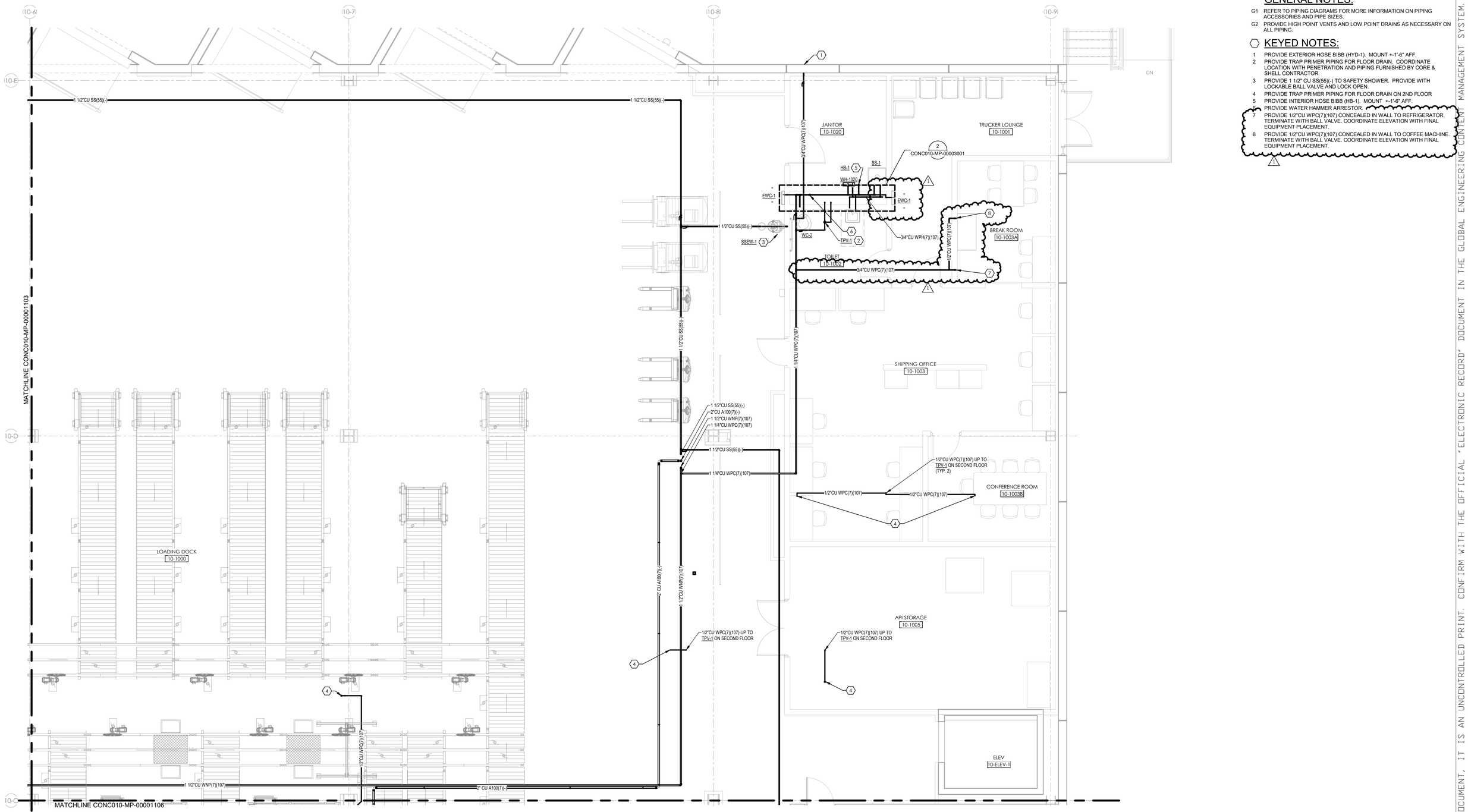
4 PROVIDE TRAP PRIMER PIPING FOR FLOOR DRAIN ON 2ND FLOOR

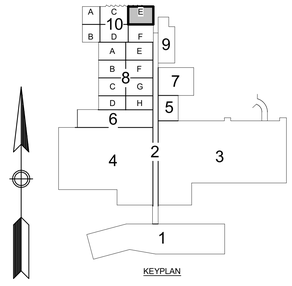
5 PROVIDE INTERIOR HOSE BIBB (HB-1). MOUNT +-1'-6" AFF.

6 PROVIDE WATER HAMMER ARRESTOR.

7 PROVIDE 1/2"CU WPC(7)(107) CONCEALED IN WALL TO REFRIGERATOR. TERMINATE WITH BALL VALVE. COORDINATE ELEVATION WITH FINAL EQUIPMENT PLACEMENT.

8 PROVIDE 1/2"CU WPC(7)(107) CONCEALED IN WALL TO COFFEE MACHINE. TERMINATE WITH BALL VALVE. COORDINATE ELEVATION WITH FINAL EQUIPMENT PLACEMENT.





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Lilly U.S.A.

INTERIOR SERVICE PIPING B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-04	N/A	23-Aug-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-C - 10-E:10-6 - 10-9	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MP-00001105	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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NORTH CAROLINA PROFESSIONAL SEAL 049038 ENGINEER WILSON M MAY
8-23-2023

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GENERAL NOTES:

G1 REFER TO PIPING DIAGRAMS FOR MORE INFORMATION ON PIPING ACCESSORIES AND PIPE SIZES.

G2 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.

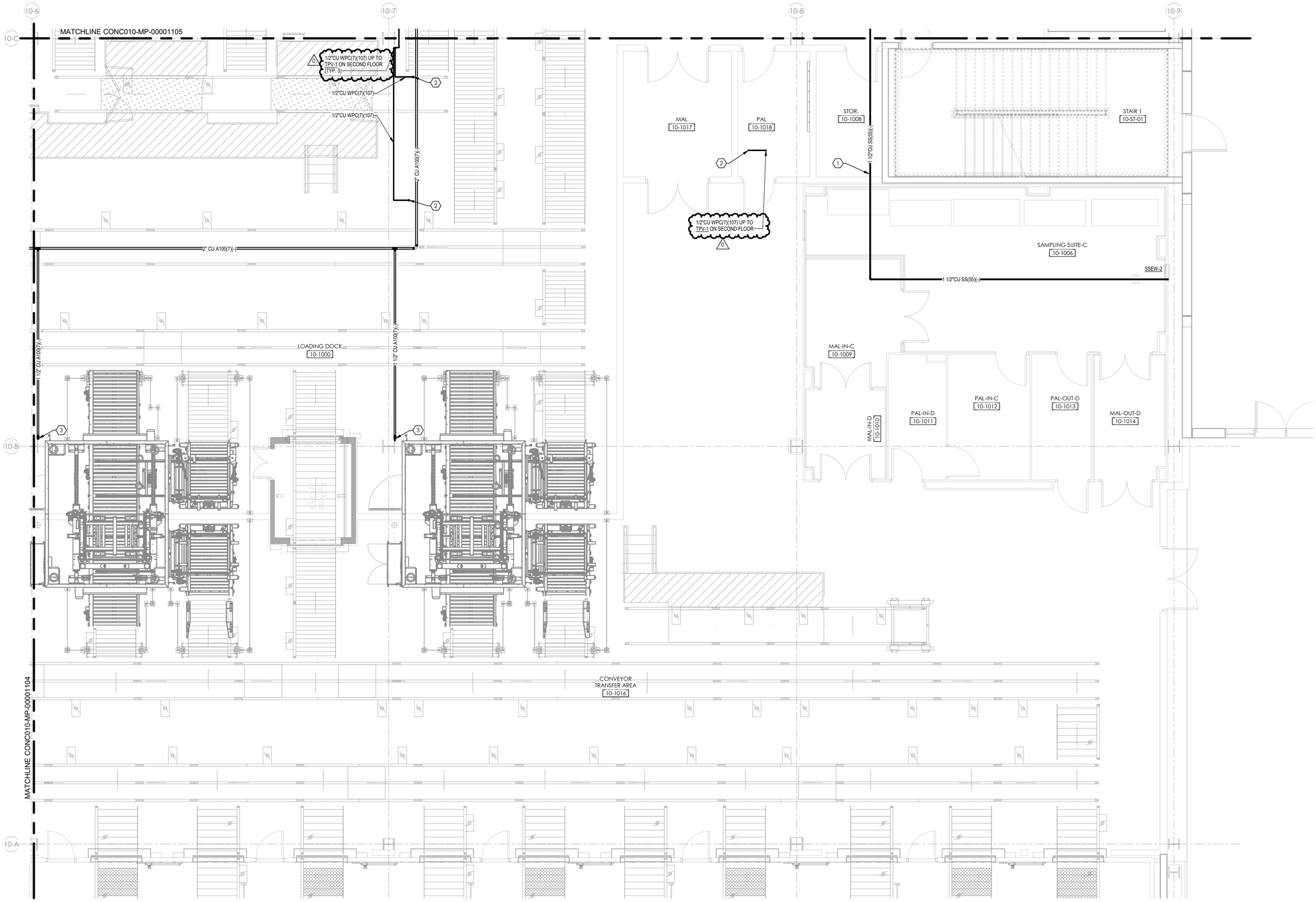
KEYED NOTES:

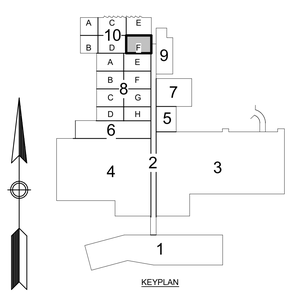
0 1 2 3

1 PROVIDE 1 1/2" CU SS(55)(-) TO SAFETY SHOWER. PROVIDE WITH LOCKABLE BALL VALVE IN ACCESSIBLE LOCATION AND LOCK OPEN.

2 PROVIDE TRAP PRIMER PIPING FOR FLOOR DRAIN ON SECOND FLOOR.

3 PROVIDE 1 1/2" CU A100(7)(-) DOWN COLUMN. TERMINATE WITH BALL VALVE +-6'-0" AFF. COORDINATE FINAL LOCATION WITH LATEST DEMATIC EQUIPMENT DESIGN.





KEYPLAN

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER JASON M ARY
3-3-2023

MUSSETT NICHOLAS
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Lilly U.S.A.

INTERIOR SERVICE PIPING B10/01

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 01
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-C:10-6 - 10-9	CCI CODE: YELLOW
PROJECT NAME: CONC-300-5983			
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MP-00001106	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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GENERAL NOTES:

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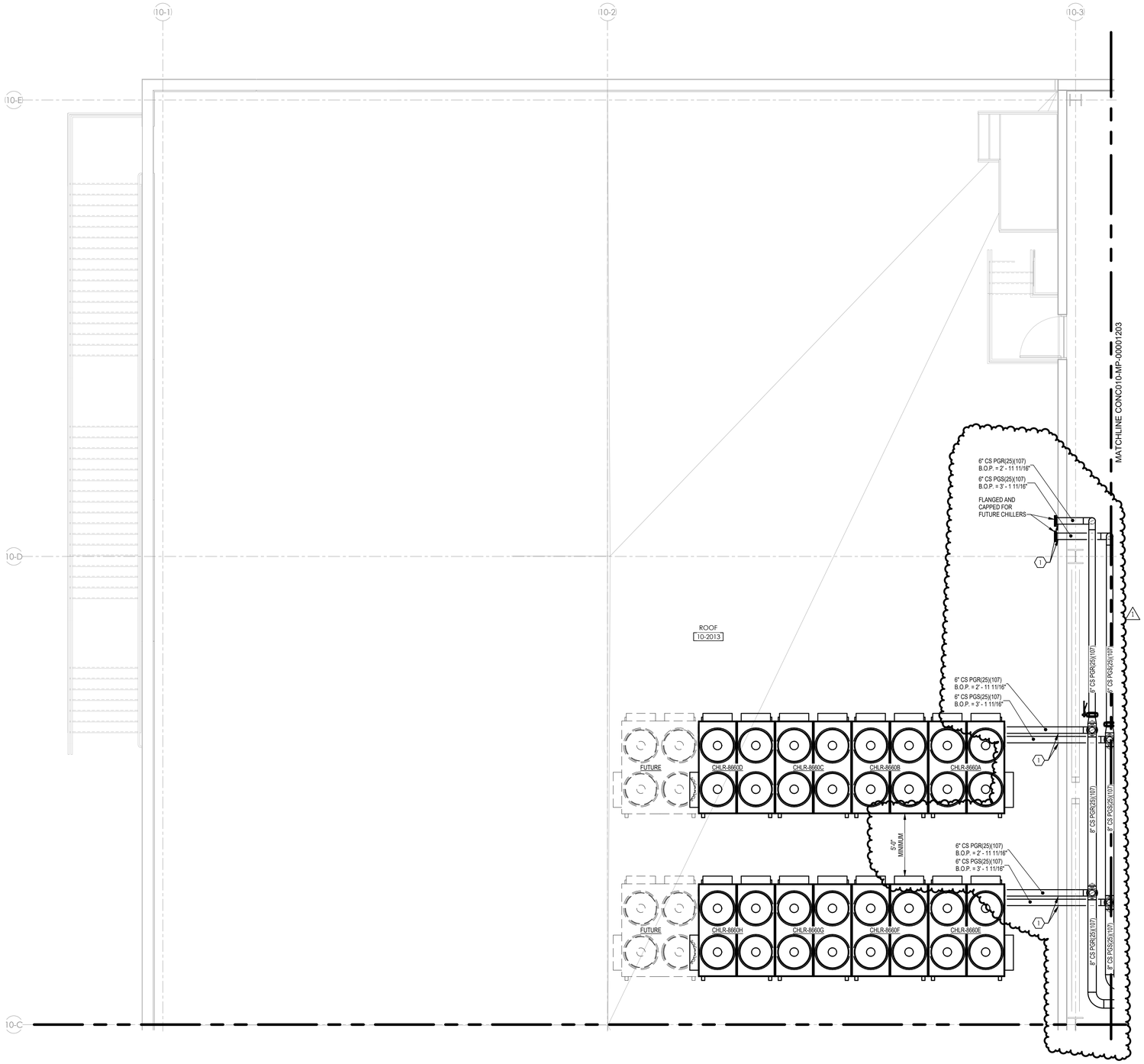
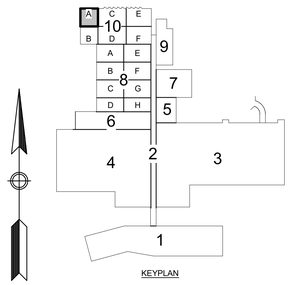
G2 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.
G3 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.
G4 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.
G5 SUPPORT EXTERIOR PIPING ON EQUIPMENT RAILS FLASHED INTO ROOF MEMBRANE.

KEYED NOTES:

1 PROVIDE SLEEVES IN OUTSIDE WALL WITH LINK-SEAL.





KEYPLAN

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043695 JASON M. RAY 3-30-23

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Lilly U.S.A.

INTERIOR SERVICE PIPING B10/02

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 02
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-C - 10-E:10-1 - 10-3	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MP-00001201	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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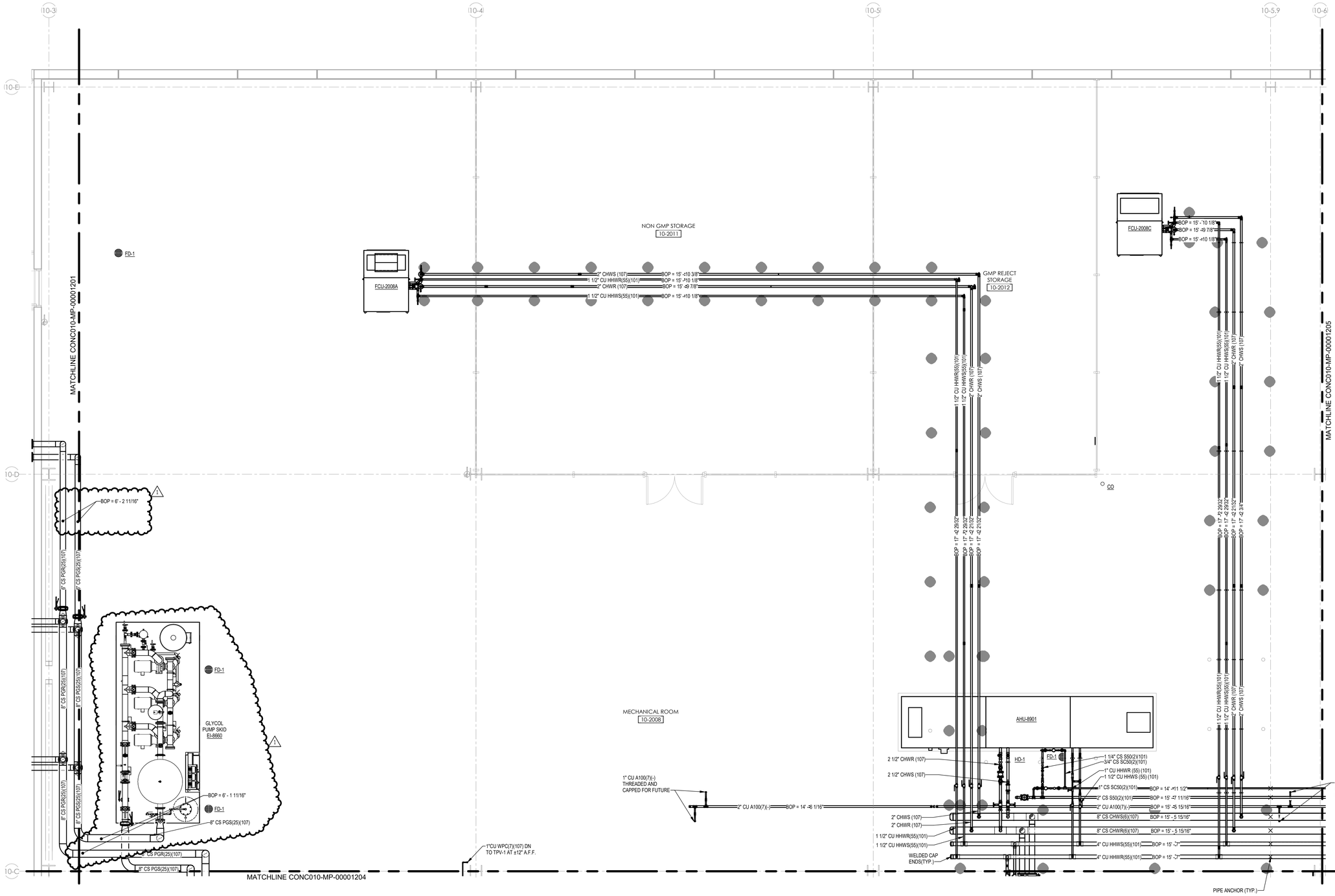
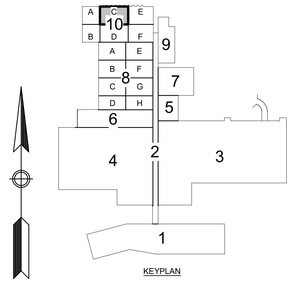
G1 REFER TO PIPING DIAGRAMS FOR MORE INFORMATION ON PIPING ACCESSORIES AND PIPE SIZES.

G2 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.





KEYPLAN

MUSSETT NICHOLAS ASSOCIATES
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502 South West Street
Indianapolis, Indiana 46225
317.631.9241
North Carolina Firm License No. C-4041 MNA COMM NO.: 2022175

Lilly U.S.A.

INTERIOR SERVICE PIPING B10/02

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-02	N/A	04-May-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE	EDIFICE/BUILDING: CONC010; LEVEL/FLOOR: 02
SUB DISCIPLINE: MP; LOCATION CODE: CONC; LOCATION/GRID: COL. 10-C - 10-E:10-3 - 10-6	CCI CODE: YELLOW; PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No; ENTERPRISE GROUP: CDAP	DRAWING INTENTION; DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes; EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID; MERIDIAN REV
CRITICAL HSE: No; VENDOR	DOCUMENT ID: CONC010-MP-00001203
NON-CRITICAL: No; ENGINEERING AGENCY DOC ID	

NORTH CAROLINA PROFESSIONAL SEAL 043818 ENGINEER JASON M SMITH
4-7-2023

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GENERAL NOTES:

G1 REFER TO PIPING DIAGRAMS FOR MORE INFORMATION ON PIPING ACCESSORIES AND PIPE SIZES.

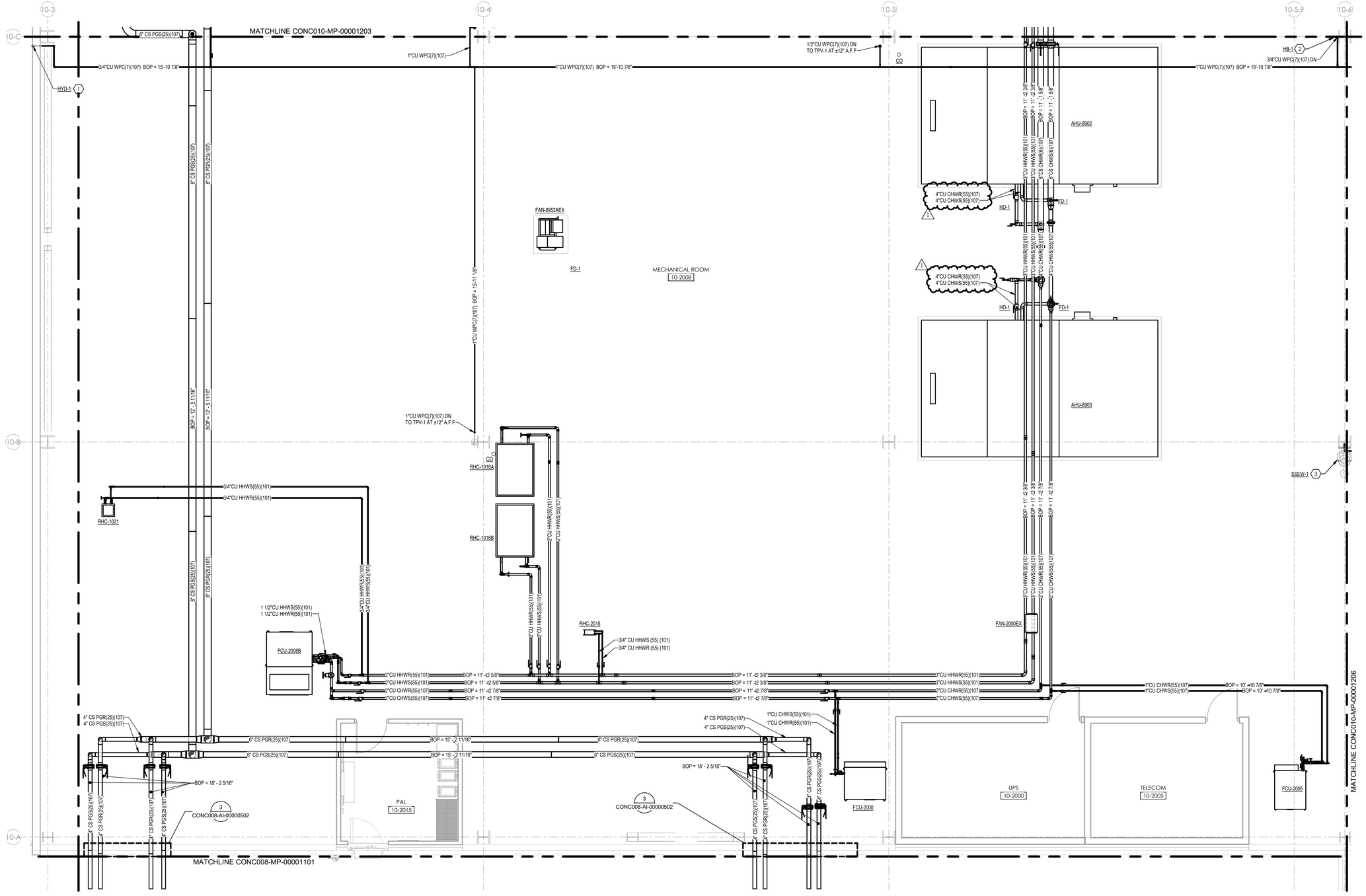
G2 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.

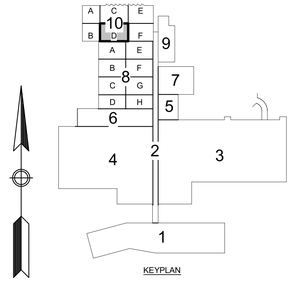
KEYED NOTES:

1 PROVIDE EXTERIOR HOSE BIBB (HYD-1). MOUNT +-1'-6" AFF.

2 PROVIDE INTERIOR HOSE BIBB (HB-1). MOUNT +-1'-6" AFF.

3 PROVIDE 1 1/2" CU SS(55)(-) TO SAFETY SHOWER. PROVIDE WITH LOCKABLE BALL VALVE AND LOCK OPEN.





NORTH CAROLINA PROFESSIONAL SEAL 047618 ENGINEER JASON MARK NICHOLAS 12-20-2023

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Lilly U.S.A.

INTERIOR SERVICE PIPING B10/02

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-07	N/A	20-Dec-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 02
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-C;10-3 - 10-6	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR	DOCUMENT ID: CONC010-MP-00001204	
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID		

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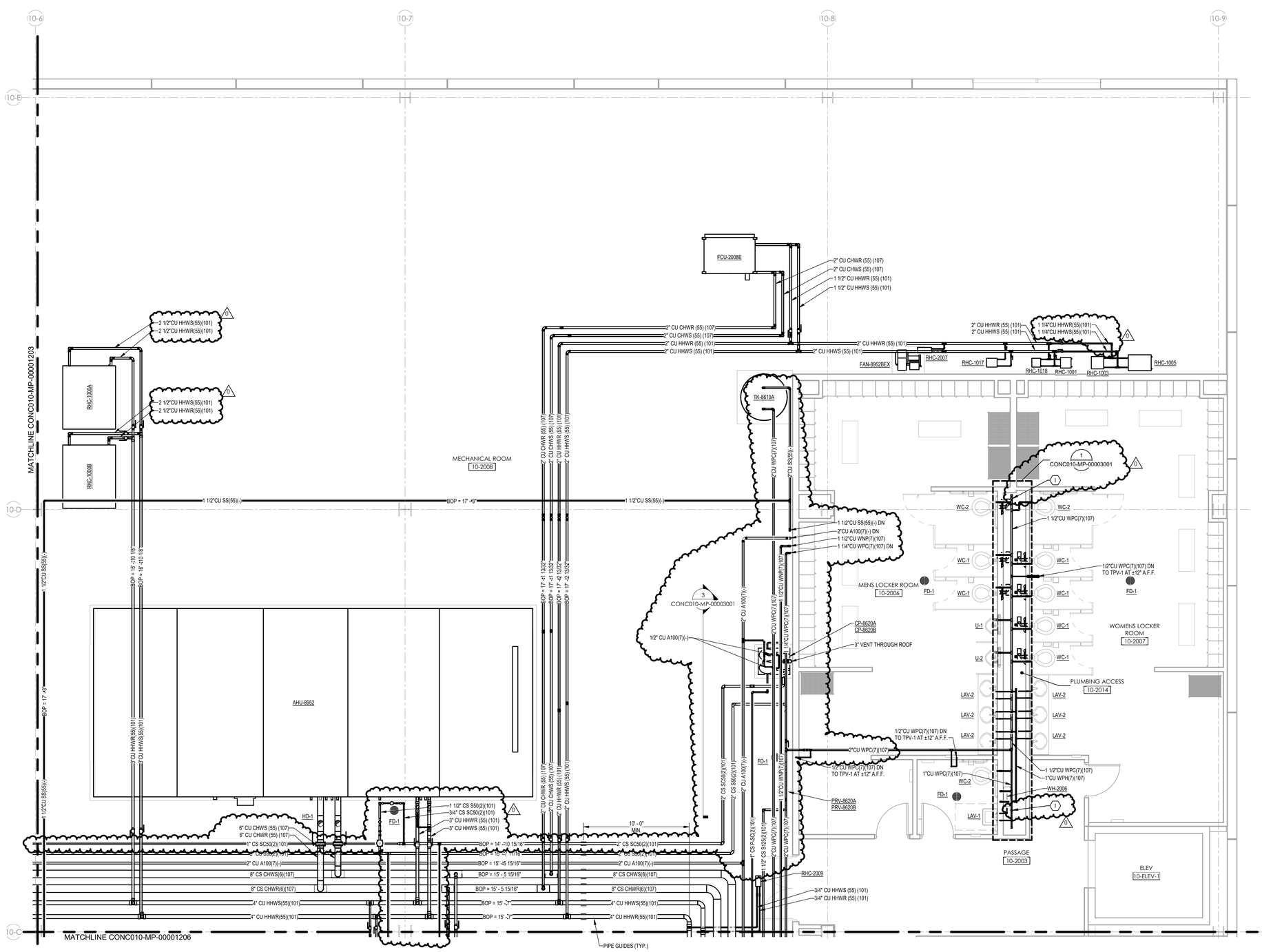
GENERAL NOTES:

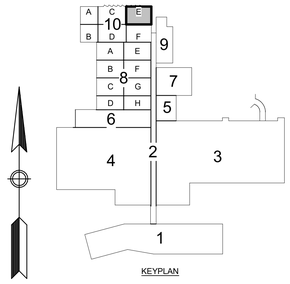
G1 REFER TO PIPING DIAGRAMS FOR MORE INFORMATION ON PIPING ACCESSORIES AND PIPE SIZES.

G2 PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS AS NECESSARY ON ALL PIPING.

KEYED NOTES:

1 PROVIDE WATER HAMMER ARRESTOR.





SEAL 043006 ENGINEER JASON M MAY 03-2023

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Indianapolis, Indiana 46225
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Lilly U.S.A.

INTERIOR SERVICE PIPING B10/02

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING CONC010	LEVEL/FLOOR 02
SUB DISCIPLINE MP	LOCATION CODE CONC	LOCATION/GRID COL. 10-C - 10-E:10-6 - 10-9	CCI CODE YELLOW	PROJECT NAME CONC-300-5983
CRITICAL QUALITY No		ENTERPRISE GROUP CDAP	DRAWING INTENTION	DRAWING SCALE 1/4" = 1'-0"
CRITICAL BUSINESS Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE No		VENDOR	DOCUMENT ID CONC010-MP-00001205	
NON-CRITICAL No		ENGINEERING AGENCY DOC ID		

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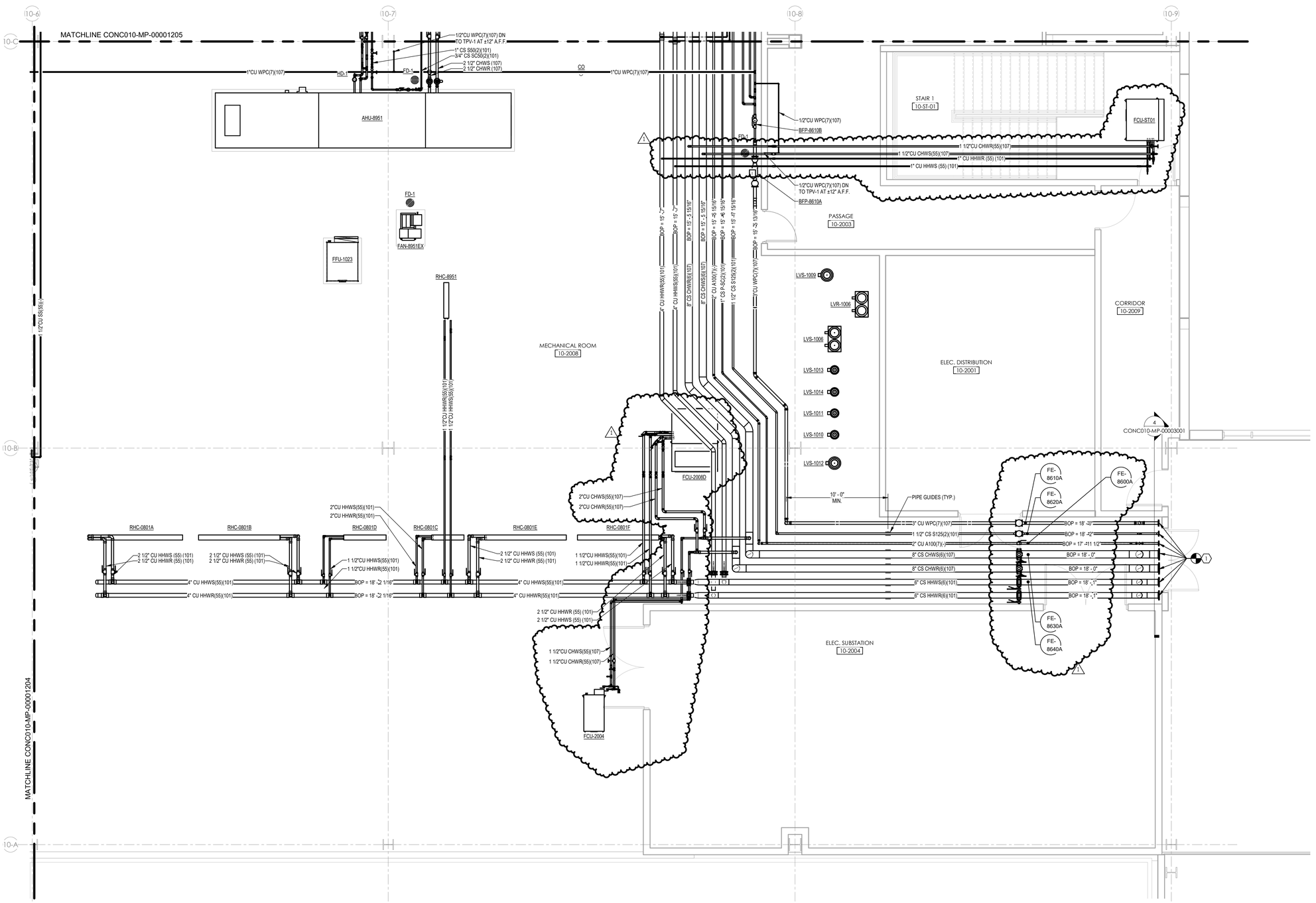
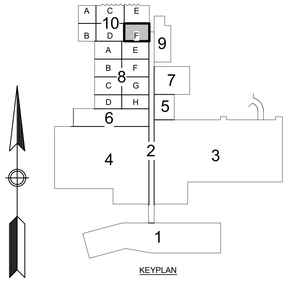
KEYED NOTES:

1 COORDINATE CONNECTION SIZE AND LOCATION WITH CORE AND SHELL CONTRACTOR.





NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043938 JASON M. MAY 5-30-23

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Lilly U.S.A.

INTERIOR SERVICE PIPING B10/02

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
1	ALL	BULLETIN-01	N/A	30-Mar-2023
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

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SYSTEM TYPE			EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: 02
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: COL. 10-A - 10-C:10-6 - 10-9	CCI CODE: YELLOW	PROJECT NAME: CONC-300-5983
CRITICAL QUALITY: No		ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: 1/4" = 1'-0"
CRITICAL BUSINESS: Yes		EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No		VENDOR	DOCUMENT ID: CONC010-MP-00001206	
NON-CRITICAL: No		ENGINEERING AGENCY DOC ID		

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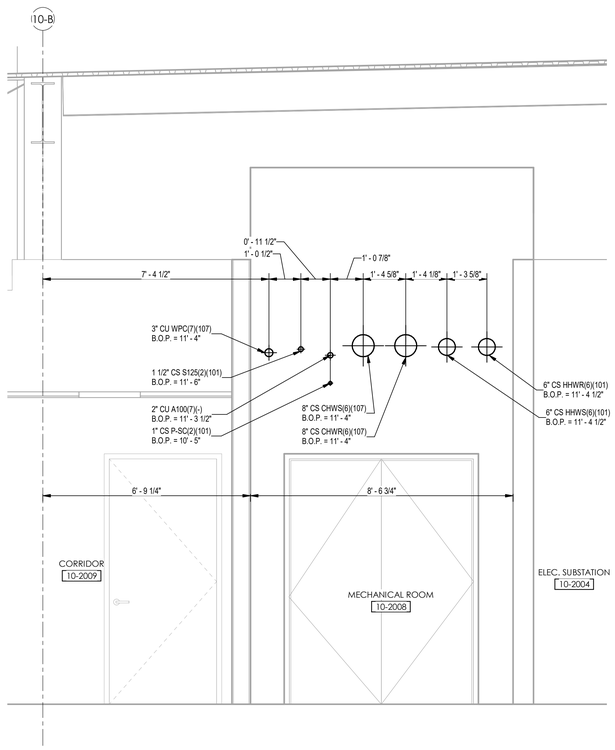
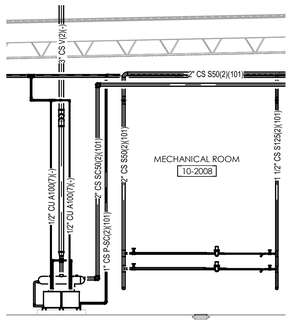
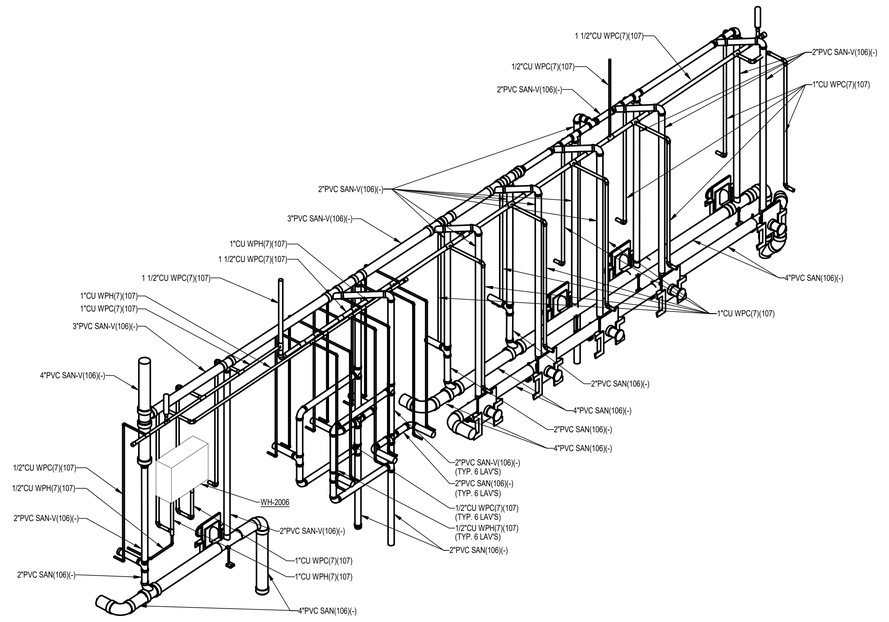


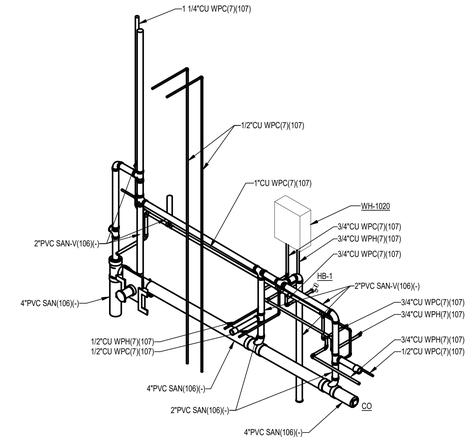
4 SECTION
SCALE: 1/2" = 1'-0"



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



1 LOCKER ROOM PLUMBING ISO
SCALE: NO SCALE



2 TOILET 10-1002 ISO
SCALE: NO SCALE

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043662 ENGINEER JASON M MRI
3-2023

MUSSETT NICHOLAS
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Lilly U.S.A.

INTERIOR SERVICE PIPING B10 SECTIONS

REV	ZONE	PROJECT NUMBER / DESCRIPTION	CHANGE CONTROL	DATE
0	ALL	ISSUED FOR CONSTRUCTION	N/A	03-Mar-2023

REVISIONS

SYSTEM TYPE		EDIFICE/BUILDING: CONC010	LEVEL/FLOOR: N/A
SUB DISCIPLINE: MP	LOCATION CODE: CONC	LOCATION/GRID: N/A	CCI CODE: YELLOW
CRITICAL QUALITY: No	ENTERPRISE GROUP: CDAP	DRAWING INTENTION	DRAWING SCALE: As indicated
CRITICAL BUSINESS: Yes	EQUIPMENT CLASSIFICATION	ALTERNATE DOCUMENT ID	MERIDIAN REV
CRITICAL HSE: No	VENDOR		
NON-CRITICAL: No	ENGINEERING AGENCY DOC ID	DOCUMENT ID: CONC010-MP-00003001	0

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