

REFLECTED CEILING PLAN NOTES:

- A. BORDERS AT LAY-IN ACOUSTICAL CEILING PANELS SHALL BE CUT TO MATCH FACTORY EDGE PROFILE. NO EXPOSED FASTENERS SHALL BE PERMITTED INCLUDING POP RIVETS AND TAPETS.
- B. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, U.O.N.
- C. ALL LIGHT FIXTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
- D. LIGHT FIXTURES TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE NOTED FOR QUANTITIES AND LOCATIONS ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SPECIFICATIONS, SWITCHING, EXIT LIGHTS, EMERGENCY LIGHTING, LIFE SAFETY EQUIPMENT AND CIRCUITING.
- E. MECHANICAL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS AND FOR ADDITIONAL INFORMATION REGARDING ALL HVAC EQUIPMENT INCLUDING HVAC REGISTERS, GRILLS, ETC.
- F. DIMENSIONED LIGHT FIXTURES ARE FROM FINISHED FACE OF PARTITIONS TO CENTERLINE OF FIXTURE TO CENTERLINE OF FIXTURE. ANY DISCREPANCIES WITH LOCATION OF LIGHT FIXTURES, SWITCHES, THERMOSTATS, OR DIFFUSERS BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- G. THE CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS THAT INCORPORATES ALL TRADES AS REQUIRED BY THE SPECIFICATIONS.
- H. LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL OTHER SYSTEM DEVICES SHALL BE LOCATED CENTERED ON CEILING TILES, U.O.N.
- I. ALL ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN EACH ROOM U.O.N.
- J. ALL FLUSH MOUNTED LIGHT FIXTURES MOUNTED WITHIN A GYPSUM BOARD CEILING SHALL BE FITTED WITH FLUSH TRIM.
- K. WHERE DUCTWORK, CONDUIT, AND PIPING MUST CROSS OPEN CEILINGS, ALL WORK SHALL BE EXECUTED TO PRESENT A NEAT AND MINIMAL APPEARANCE.
- L. ALL EXPOSED WORK SHALL RUN PARALLEL OR PERPENDICULAR TO STRUCTURE, WITH 90 DEGREE BENDS.
- M. LOCATE WORK SO AS TO MINIMIZE EXTENT EXPOSED. LOCATE WORK AS CLOSE AS POSSIBLE TO ADJACENT WALLS OR CEILING PLANES.
- N. PROVIDE ADDITIONAL STRUT SUPPORT SYSTEM TO SUPPORT FIXTURES WHERE LIGHT FIXTURES ARE NOT MOUNTED BELOW STRUCTURAL MEMBERS-DO NOT MOUNT TO ROOF DECK, TYP.
- O. WHERE EXPOSED STRUCTURE IS INDICATED, ALL EXPOSED ROOF DECK, STRUCTURAL STEEL, CONCRETE BEAMS & DECK, PIPES, DUCTS, CONDUITS, ETC. SHALL BE PAINTED TO MATCH CEILING COLOR. SEE FINISH SCHEDULE.
- P. DOWNLIGHTS SHALL BE SYMMETRICALLY CENTERED IN ACOUSTICAL CEILING TILE AND GYPSUM BOARD CEILINGS U.O.N.
- Q. PROVIDE SOFFIT TRANSITIONS BETWEEN ACT CEILINGS AND GYPSUM BOARD CEILINGS
- R. FURNISH AN INSTALL ACCESS DOORS IN GYP. BD. CEILINGS AS REQUIRED TO PROVIDE ACCESS TO ABOVE-CEILING VAV BOXES, DAMPERS, VALVES, EQUIPMENT, ETC. SEE MEP DRAWINGS FOR LOCATIONS AND SPECIFICATIONS, COORDINATE FINAL LOCATIONS WITH DESIGNER PRIOR TO INSTALLATION.
- S. ALL GYP. BD. CEILINGS IN WET AREAS SUCH AS TOILET ROOMS, BATHROOMS, AND JANITORS CLOSETS SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYP. BD. AS PER SPECIFICATIONS.
- T. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING TYPES.
- U. SEE A-220 SERIES DRAWINGS FOR TYPICAL CEILING DETAILS, U.O.N.
- V. ALL EXTERIOR WINDOWS WILL HAVE MANUAL ROLLER SHADES. REFER TO SPECIFICATIONS AND A-220 SERIES DRAWINGS FOR LOCATION AND DETAILS.
- W. ALL TRAINING ROOMS AND COMMISSIONER MEETING ROOM WILL HAVE POWERED ROLLER SHADES WITH BOTH SOLAR AND BLACKOUT CAPABILITY TO REFER TO SPECIFICATIONS.
- X. ALL GYP. BOARD SOFFITS AND FASCIAS TO BE PAINTED (PNT-2) U.O.N.

RCP LEGEND

Room name	ROOM NAME
101	ROOM NUMBER
ACT-1	CEILING TYPE
10'-0"	CEILING HEIGHT
[Symbol]	GYPSUM BOARD CEILING
[Symbol]	2' BY 2' SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	4' BY 4' SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	HVAC - RETURN
[Symbol]	HVAC - SUPPLY
[Symbol]	HVAC - LINEAR SUPPLY
[Symbol]	HVAC - BATHROOM EXHAUST FAN
A	2'-0" X 2'-0" RECESSED TROPPE CEILING LIGHT FIXTURE (TYPE A)
B	2'-0" X 2'-0" RECESSED CEILING LIGHT FIXTURE (TYPE B)
C	2' x VARYING LENGTH CEILING HUNG PENDANT LIGHT FIXTURE (TYPE C) MOUNTING HEIGHT - 8'-0" A.F.F.
D	2' x 8'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D)
D1	2' x 8'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D1)
D2	2' x 4'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D2)
E	4' SQUARE RECESSED DOWNLIGHT FIXTURE (TYPE E)
F	RECESSED DIRECT LINEAR FIXTURE, VARYING LENGTHS (TYPE F)
F1	LINEAR DIRECT/INDIRECT PENDANT FIXTURE, VARYING LENGTHS (TYPE F1)
G	4'-0" RECESSED LINEAR LIGHT FIXTURE (TYPE G)
H	LINEAR WALL GRAZER LIGHT (TYPE H)
I	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE I) AT CAFE
J	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE J)
K	LED ADJUSTABLE SPOT LIGHT FIXTURE (TYPE K)
L	3'-0" DIAMETER RING SUSPENDED PENDANT LIGHT (TYPE L)
M	6'-0" LINEAR SURFACE WALL MOUNT LIGHT FIXTURE (TYPE M) MOUNTING HEIGHT - 8'-0" ABOVE LANDING TO 4'-0" OF FIXTURE AT EGRESS STAIRS MOUNTING HEIGHT - 7'-4" ABOVE LANDING TO 4" OF FIXTURE AT E.M.R.
N	DECORATIVE ROUND SUSPENDED PENDANT LIGHT WITHIN VESTIBULE (TYPE N)
O	COVE LIGHTING AT COLUMN (TYPE O)
P	LED TAPE LIGHT AT DESK TRANSACTION TOP (TYPE P). SEE FLOOR PLAN FOR LOCATIONS.
P1	LED TAPE LIGHT AT COVE CEILING
Q	VERTICAL LINEAR FIXTURE INTEGRATED INTO WOOD SLAT WALL SYSTEM (TYPE Q)
R	SURFACE MOUNTED ROUND DECORATIVE FIXTURE (TYPE R)
S	SURFACE MOUNTED RING FIXTURE (TYPE S)
T	LINEAR WALL GRAZER LIGHT
U	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE U)
V	48" DECORATIVE RING SUSPENDED PENDANT LIGHT (TYPE V)
W	1' LINEAR EXTERIOR COVE LIGHT (TYPE W)
[Symbol]	6" CEILING DOWNLIGHT RECESSED CAN
[Symbol]	EXIT SIGN
[Symbol]	FA CEILING MOUNTED SPEAKER & STROBE
[Symbol]	FA CEILING MOUNTED STROBE
[Symbol]	SMOKE DETECTOR
[Symbol]	12" x 12" ACCESS DOOR
MS	MOTORIZED SHADES

FINISH NOTES:

COLUMN / BEAM COVER
 BASIS OF DESIGN
 MANUFACTURER: CENTRIA
 PRODUCT: COLUMN COVERS SERIES 3000

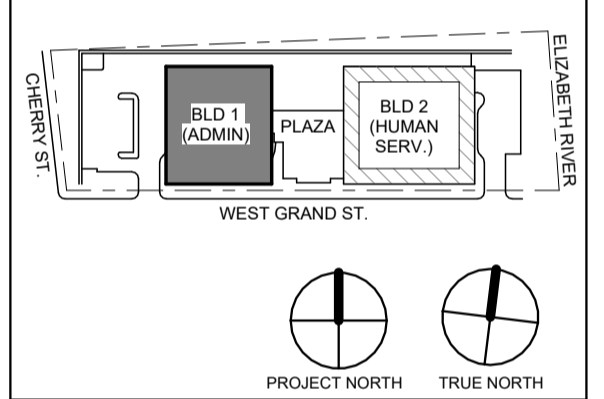
WOOD LOOK ALUMINUM SLATS VARIED WIDTH + DEPTH
 BASIS OF DESIGN
 MANUFACTURER: CERTANTIED
 PRODUCT: MULTI BOX CONTINUOUS
 REFER TO DETAIL 2 / A1-202 FOR ADDITIONAL INFORMATION

MANUAL SHADE SYSTEMS
 BASIS OF DESIGN
 MANUFACTURER: MECO/SHADE
 PRODUCT: MECO/SH SYSTEM

TYPICAL CEILING HEIGHTS (BLDG 1):

TYPICAL OPEN OFFICE:	9'-5" A.F.F. (2 x 4' ACT-3)
TYPICAL PRIVATE OFFICE:	9'-5" A.F.F. (2 x 2' ACT-4)
TYPICAL CONFERENCE / MEETING ROOM:	9'-5" A.F.F.
TYPICAL STORAGE / FILE / COPY ROOM:	8'-0" A.F.F. (2 x 2' ACT-1)
ELEVATOR CORE:	9'-5" / 10'-5" A.F.F.
RESTROOMS:	8'-0" A.F.F. (ACT-3 OR ACT-4)

KEY PLAN:



No.	Date	Description
1	12.01.2023	Addendum No. 1
2	12.08.2023	Addendum No. 2
1	11.08.2023	For Public Bid

DIGroupArchitecture
 ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
 NJ RA #A1 00827100

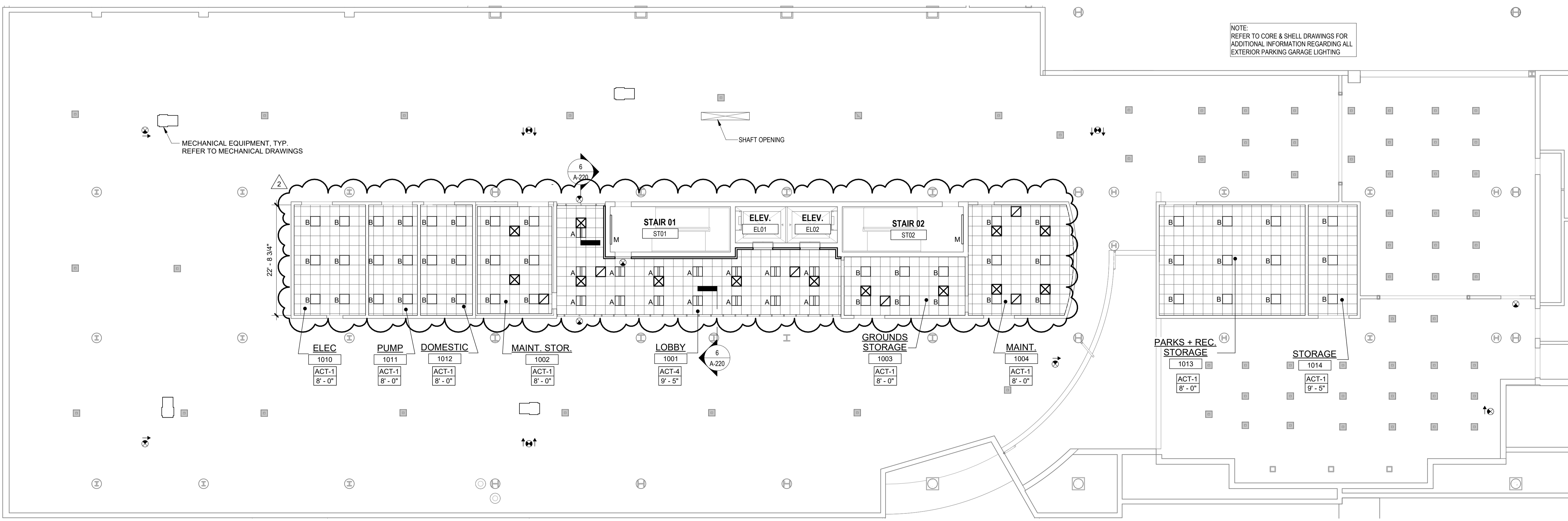
Client:
 UNION COUNTY IMPROVEMENT AUTHORITY

Project:
 UNION COUNTY GOVERNMENT COMPLEX
 81 & 93 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JB / AV / PC
 Checked By: JM / SH

Sheet Name:
 BUILDING NO. 1 - LEVEL 0 - UNDERGROUND FLOOR REFLECTED CEILING PLAN

Sheet No:
 A1-200



1 BLDG 1 - LEVEL 0 - UNDERGROUND REFLECTED CEILING PLAN
 SCALE: 3/32" = 1'-0"

REFLECTED CEILING PLAN NOTES:

- A. BORDERS AT LAY-IN ACOUSTICAL CEILING PANELS SHALL BE CUT TO MATCH FACTORY EDGE PROFILE. NO EXPOSED FASTENERS SHALL BE PERMITTED INCLUDING POP RIVETS AND TAPSETS.
- B. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, U.O.N.
- C. ALL LIGHT FIXTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING SULKHEADS AND GRID PRIOR TO INSTALLATION.
- D. LIGHT FIXTURE TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE NOTED FOR QUANTITIES AND LOCATIONS ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SPECIFICATIONS, SWITCHING, EXIT LIGHTS, EMERGENCY LIGHTING, LIFE SAFETY EQUIPMENT AND CIRCUITING.
- E. MECHANICAL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS AND FOR ADDITIONAL INFORMATION REGARDING ALL HVAC EQUIPMENT INCLUDING HVAC REGISTERS, GRILLS, ETC.
- F. DIMENSIONED LIGHT FIXTURES ARE FROM FINISHED FACE OF PARTITIONS TO CENTERLINE OF FIXTURE TO CENTERLINE OF FIXTURE. ANY DISCREPANCIES WITH LOCATION OF LIGHT FIXTURES, SWITCHES, THERMOSTATS, OR DIFFUSERS BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- G. THE CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS THAT INCORPORATES ALL TRADES AS REQUIRED BY THE SPECIFICATIONS.
- H. LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL OTHER SYSTEM DEVICES SHALL BE LOCATED CENTERED ON CEILING TILES, U.O.N.
- I. ALL ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN EACH ROOM U.O.N.
- J. ALL FLUSH MOUNTED LIGHT FIXTURES MOUNTED WITHIN A GYPSUM BOARD CEILING SHALL BE FITTED WITH FLUSH TRIM.
- K. WHERE DUCTWORK, CONDUIT, AND PIPING MUST CROSS OPEN CEILINGS, ALL WORK SHALL BE EXECUTED TO PRESENT A NEAT AND MINIMAL APPURTENANCE.
- L. ALL EXPOSED WORK SHALL RUN PARALLEL OR PERPENDICULAR TO STRUCTURE, WITH 90 DEGREE BENDS.
- M. LOCATE WORK SO AS TO MINIMIZE EXTENT EXPOSED. LOCATE WORK AS CLOSE AS POSSIBLE TO ADJACENT WALLS OR CEILING PLANES.
- N. PROVIDE ADDITIONAL STRUT SUPPORT SYSTEM TO SUPPORT FIXTURES WHERE LIGHT FIXTURES ARE NOT MOUNTED BELOW STRUCTURAL MEMBERS-DO NOT MOUNT TO ROOF DECK, TYP.
- O. WHERE EXPOSED STRUCTURE IS INDICATED, ALL EXPOSED ROOF DECK, STRUCTURAL STEEL, CONCRETE BEAMS & DECK, PIPES, DUCTS, CONDUITS, ETC. SHALL BE PAINTED TO MATCH CEILING COLOR. SEE FINISH SCHEDULE.
- P. DOWNLIGHTS SHALL BE SYMMETRICALLY CENTERED IN ACOUSTICAL CEILING TILE AND GYPSUM BOARD CEILINGS U.O.N.
- Q. PROVIDE SOFFIT TRANSITIONS BETWEEN ACT CEILINGS AND GYPSUM BOARD CEILINGS.
- R. FURNISH AN INSTALL ACCESS DOORS IN GYP. BD. CEILINGS AS REQUIRED TO PROVIDE ACCESS TO ABOVE-CEILING VAV BOXES, DAMPERS, VALVES, EQUIPMENT, ETC. SEE MEP DRAWINGS FOR LOCATIONS AND SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH DESIGNER PRIOR TO INSTALLATION.
- S. ALL GYP. BD. CEILINGS IN WET AREAS SUCH AS TOILET ROOMS, BATHROOMS, AND JANITORS CLOSETS SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYP. BD. AS PER SPECIFICATIONS.
- T. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING TYPES.
- U. SEE A-220 SERIES DRAWINGS FOR TYPICAL CEILING DETAILS, U.O.N.
- V. ALL EXTERIOR WINDOWS WILL HAVE MANUAL ROLLER SHADES. REFER TO SPECIFICATIONS AND A-220 SERIES DRAWINGS FOR LOCATION AND DETAILS.
- W. ALL TRAINING ROOMS AND COMMISSIONER MEETING ROOM WILL HAVE POWERED ROLLER SHADES WITH BOTH SOLAR AND BLACKOUT CAPABILITY TO REFER TO SPECIFICATIONS.
- X. ALL GYP. BOARD SOFFITS AND FASCIAS TO BE PAINTED (PNT-2) U.O.N.

RCP LEGEND

Room name	ROOM NAME
101	ROOM NUMBER
ACT-1	CEILING TYPE
10'-0"	CEILING HEIGHT
[Symbol]	GYPSUM BOARD CEILING
[Symbol]	2' BY 2' SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	4' BY 4' SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	HVAC - RETURN
[Symbol]	HVAC - SUPPLY
[Symbol]	HVAC - LINEAR SUPPLY
[Symbol]	HVAC - BATHROOM EXHAUST FAN
A	2'-0" X 2'-0" RECESSED TROFFEE CEILING LIGHT FIXTURE (TYPE A)
B	2'-0" X 2'-0" RECESSED CEILING LIGHT FIXTURE (TYPE B)
C	2" X VARYING LENGTH CEILING HUNG PENDANT LIGHT FIXTURE (TYPE C) MOUNTING HEIGHT: 8'-0" A.F.F.
D	2" X 8'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D)
D1	2" X 6'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D1)
D2	2" X 4'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D2)
E	4" SQUARE RECESSED DOWNLIGHT FIXTURE (TYPE E)
F	RECESSED DIRECT LINEAR FIXTURE, VARYING LENGTHS (TYPE F)
F1	LINEAR DIRECT/INDIRECT PENDANT FIXTURE, VARYING LENGTHS (TYPE F1)
G	4'-0" RECESSED LINEAR LIGHT FIXTURE (TYPE G)
H	LINEAR WALL GRAZER LIGHT (TYPE H)
I	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE I) AT CAFE
J	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE J)
K	LED ADJUSTABLE SPOT LIGHT FIXTURE (TYPE K)
L	3'-0" DIAMETER RING SUSPENDED PENDANT LIGHT (TYPE L)
M	6'-0" LINEAR SURFACE WALL MOUNT LIGHT FIXTURE (TYPE M) MOUNTING HEIGHT - 8'-0" ABOVE LANDING TO 4" OF FIXTURE AT EGRESS STAIRS MOUNTING HEIGHT - 7'-4" ABOVE LANDING TO 4" OF FIXTURE AT E.M.R.
N	DECORATIVE ROUND SUSPENDED PENDANT LIGHT WITHIN VESTIBULE (TYPE N)
O	COVE LIGHTING AT COLUMN (TYPE O)
P	LED TAPE LIGHT AT DESK TRANSACTION TOP (TYPE P). SEE FLOOR PLAN FOR LOCATIONS.
P1	LED TAPE LIGHT AT COVE CEILING
Q	VERTICAL LINEAR FIXTURE INTEGRATED INTO WOOD SLAT WALL SYSTEM (TYPE Q)
R	SURFACE MOUNTED ROUND DECORATIVE FIXTURE (TYPE R)
S	SURFACE MOUNTED RING FIXTURE (TYPE S)
T	LINEAR WALL GRAZER LIGHT
U	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE U)
V	48" DECORATIVE RING SUSPENDED PENDANT LIGHT (TYPE V)
W	1" LINEAR EXTERIOR COVE LIGHT (TYPE W)
[Symbol]	6" CEILING DOWNLIGHT RECESSED CAN
[Symbol]	EXIT SIGN
[Symbol]	FA CEILING MOUNTED SPEAKER & STROBE
[Symbol]	FA CEILING MOUNTED STROBE
[Symbol]	SMOKE DETECTOR
[Symbol]	12" x 12" ACCESS DOOR
MS	MOTORIZED SHADES

FINISH NOTES:

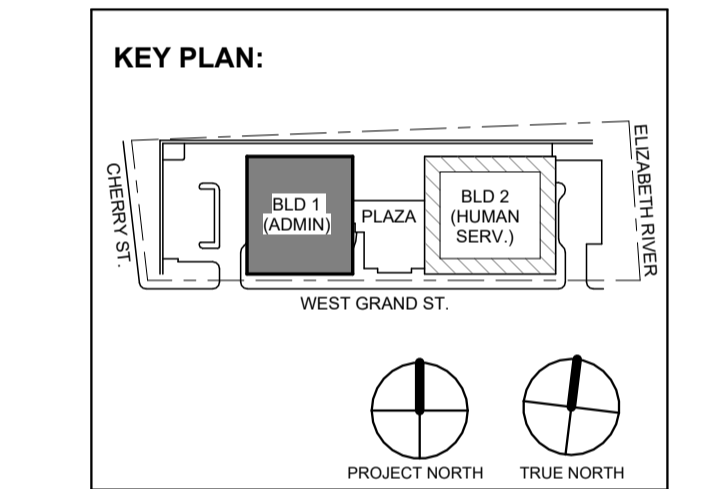
COLUMN / BEAM COVER
 BASIS OF DESIGN
 MANUFACTURER: CENTRIA
 PRODUCT: COLUMN COVERS SERIES 3000

WOOD LOOK ALUMINUM SLATS VARIOUS WIDTH + DEPTH
 BASIS OF DESIGN
 MANUFACTURER: CERTANTEED
 PRODUCT: MULTI BOX CONTINUOUS
 REFER TO DETAIL 2 / A1-202 FOR ADDITIONAL INFORMATION

MANUAL SHADE SYSTEMS
 BASIS OF DESIGN
 MANUFACTURER: MECHOSHADO
 PRODUCT: MECHOS SYSTEM

TYPICAL CEILING HEIGHTS (BLDG 1):

TYPICAL OPEN OFFICE:	9'-5" A.F.F. (2' x 4' ACT-3)
TYPICAL PRIVATE OFFICE:	9'-5" A.F.F. (2' x 2' ACT-4)
TYPICAL CONFERENCE / MEETING ROOM:	9'-5" A.F.F.
TYPICAL STORAGE / FILE / COPY ROOM:	8'-0" A.F.F. (2' x 2' ACT-1)
ELEVATOR CORE:	9'-5" / 10'-5" A.F.F.
RESTROOMS:	8'-0" A.F.F. (ACT-3 OR ACT-4)



No.	Date	Description
1	12.08.2023	Addendum No. 2
1	12.01.2023	Addendum No. 1
1	11.08.2023	For Public Bid

Revisions / Issues

DIGroupArchitecture
 ARCHITECTURE FOR CHANGE
 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
 NJ RA AI 09827100

Client:
UNION COUNTY IMPROVEMENT AUTHORITY

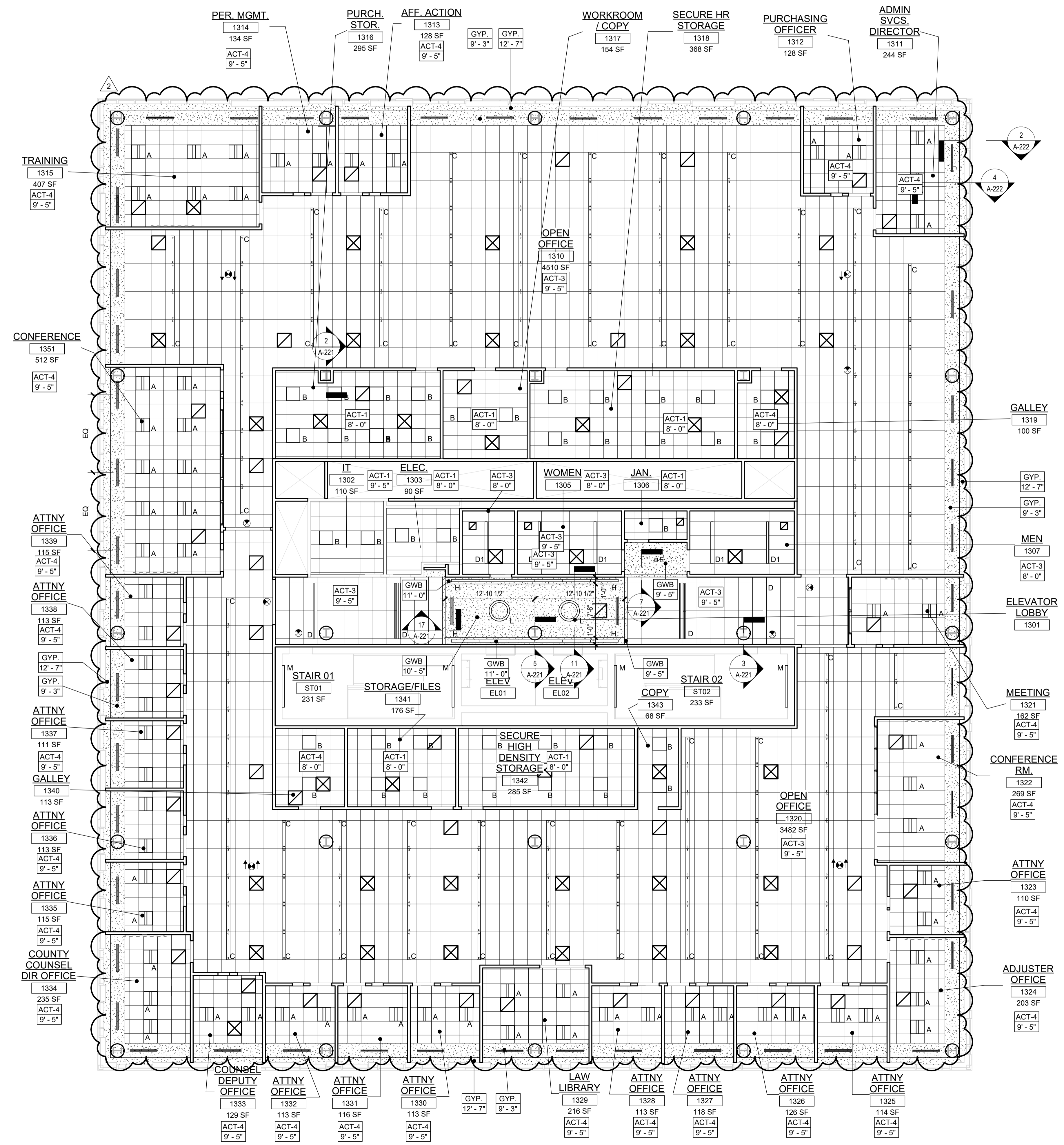
Project:
UNION COUNTY GOVERNMENT COMPLEX
 81 & 93 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JB / AV / PC
 Checked By: JM / SH

Sheet Name:
BUILDING NO. 1 - LEVEL 3 - REFLECTED CEILING PLAN

Sheet No:

A1-203



1 BLDG 1 - LEVEL 3 - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES:

- A. BORDERS AT LAY-IN ACOUSTICAL CEILING PANELS SHALL BE CUT TO MATCH FACTORY EDGE PROFILE. NO EXPOSED FASTENERS SHALL BE PERMITTED INCLUDING POP RIVETS AND TAPSETS.
- B. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, UNLESS NOTED OTHERWISE.
- C. ALL LIGHT FIXTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN, ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
- D. LIGHT FIXTURES TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE NOTED FOR QUANTITIES AND LOCATIONS ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SPECIFICATIONS, SWITCHING, EXIT LIGHTS, EMERGENCY LIGHTING, LIFE SAFETY EQUIPMENT AND CIRCUITING.
- E. MECHANICAL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS AND FOR ADDITIONAL INFORMATION REGARDING ALL HVAC EQUIPMENT INCLUDING HVAC REGISTERS, GRILLS, ETC.
- F. DIMENSIONED LIGHT FIXTURES ARE FROM FINISHED FACE OF PARTITIONS TO CENTERLINE OF FIXTURE TO CENTERLINE OF FIXTURE. ANY DISCREPANCIES WITH LOCATION OF LIGHT FIXTURES, SWITCHES, THERMOSTATS, OR DIFFUSERS BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- G. THE CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS THAT INCORPORATES ALL TRADES AS REQUIRED BY THE SPECIFICATIONS.
- H. LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL OTHER SYSTEM DEVICES SHALL BE LOCATED CENTERED ON CEILING TILES, U.O.N.
- I. ALL ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN EACH ROOM U.O.N.
- J. ALL FLUSH MOUNTED LIGHT FIXTURES MOUNTED WITHIN A GYPSUM BOARD CEILING SHALL BE FITTED WITH FLUSH TRIM.
- K. WHERE DUCTWORK, CONDUIT, AND PIPING MUST CROSS OPEN CEILINGS, ALL WORK SHALL BE EXECUTED TO PRESENT A NEAT AND MINIMAL APPURTENANCE.
- L. ALL EXPOSED WORK SHALL RUN PARALLEL OR PERPENDICULAR TO STRUCTURE, WITH 90 DEGREE BENDS.
- M. LOCATE WORK SO AS TO MINIMIZE EXTENT EXPOSED. LOCATE WORK AS CLOSE AS POSSIBLE TO ADJACENT WALLS OR CEILING PLANES.
- N. PROVIDE ADDITIONAL STRUT SUPPORT SYSTEM TO SUPPORT FIXTURES WHERE LIGHT FIXTURES ARE NOT MOUNTED BELOW STRUCTURAL MEMBERS-DO NOT MOUNT TO ROOF DECK, TYP.
- O. WHERE EXPOSED STRUCTURE IS INDICATED, ALL EXPOSED ROOF DECK, STRUCTURAL STEEL, CONCRETE BEAMS & DECK, PIPES, DUCTS, CONDUITS, ETC. SHALL BE PAINTED TO MATCH CEILING COLOR. SEE FINISH SCHEDULE.
- P. DOWNLIGHTS SHALL BE SYMMETRICALLY CENTERED IN ACOUSTICAL CEILING TILE AND GYPSUM BOARD CEILING U.O.N.
- Q. PROVIDE SOFFIT TRANSITIONS BETWEEN ACT CEILINGS AND GYPSUM BOARD CEILINGS.
- R. FURNISH AN INSTANT ACCESS DOORS IN GYP. BD. CEILINGS AS REQUIRED TO PROVIDE ACCESS TO ABOVE-CEILING VAV BOXES, DAMPERS, VALVES, EQUIPMENT, ETC. SEE MEP DRAWINGS FOR LOCATIONS AND SPECIFICATIONS, COORDINATE FINAL LOCATIONS WITH DESIGNER PRIOR TO INSTALLATION.
- S. ALL GYP. BD. CEILINGS IN WET AREAS SUCH AS TOILET ROOMS, BATHROOMS, AND JANITORS CLOSETS SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYP. BD. AS PER SPECIFICATIONS.
- T. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING TYPES.
- U. SEE A-220 SERIES DRAWINGS FOR TYPICAL CEILING DETAILS, U.O.N.
- V. ALL EXTERIOR WINDOWS WILL HAVE MANUAL ROLLER SHADES. REFER TO SPECIFICATIONS AND A-220 SERIES DRAWINGS FOR LOCATION AND DETAILS.
- W. ALL TRAINING ROOMS AND COMMISSIONER MEETING ROOM WILL HAVE POWERED ROLLER SHADES WITH BOTH SOLAR AND BLACKOUT CAPABILITY TO REFER TO SPECIFICATIONS.
- X. ALL GYP. BOARD SOFFITS AND FASCIAS TO BE PAINTED (PNT-2) U.O.N.

RCP LEGEND

Room name	ROOM NAME
101	ROOM NUMBER
ACT-1	CEILING TYPE
10'-0"	CEILING HEIGHT
[Symbol]	GYPSUM BOARD CEILING
[Symbol]	2" BY 2" SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	2" BY 4" SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	HVAC - RETURN
[Symbol]	HVAC - SUPPLY
[Symbol]	HVAC - LINEAR SUPPLY
[Symbol]	HVAC - BATHROOM EXHAUST FAN
A	2'-0" X 2'-0" RECESSED TROFFER CEILING LIGHT FIXTURE (TYPE A)
B	2'-0" X 2'-0" RECESSED CEILING LIGHT FIXTURE (TYPE B)
C	2" X VARYING LENGTH CEILING HUNG PENDANT LIGHT FIXTURE (TYPE C), MOUNTING HEIGHT - 8'-0" A.F.F.
D	2" X 8'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D)
D1	2" X 6'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D1)
D2	2" X 4'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D2)
E	4" SQUARE RECESSED DOWNLIGHT FIXTURE (TYPE E)
F	RECESSED DIRECT LINEAR FIXTURE, VARYING LENGTHS (TYPE F)
F1	LINEAR DIRECT/DIRECT PENDANT FIXTURE, VARYING LENGTHS (TYPE F1)
G	4'-0" RECESSED LINEAR LIGHT FIXTURE (TYPE G)
H	LINEAR WALL GRAZER LIGHT (TYPE H)
I	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE I) AT CAFE
J	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE J)
K	LED ADJUSTABLE SPOT LIGHT FIXTURE (TYPE K)
L	3'-0" DIAMETER RING SUSPENDED PENDANT LIGHT (TYPE L)
M	6'-0" LINEAR SURFACE WALL MOUNT LIGHT FIXTURE (TYPE M), MOUNTING HEIGHT - 8'-0" ABOVE LANDING TO 4'-0" OF FIXTURE AT GRESS STAIRS MOUNTING HEIGHT - 7'-4" ABOVE LANDING TO 4'-0" OF FIXTURE AT E.M.R.
N	DECORATIVE ROUND SUSPENDED PENDANT LIGHT WITHIN VESTIBULE (TYPE N)
O	COVE LIGHTING AT COLUMN (TYPE O)
P	LED TAPE LIGHT AT DESK TRANSACTION TOP (TYPE P), SEE FLOOR PLAN FOR LOCATIONS.
P1	LED TAPE LIGHT AT COVE CEILING
Q	VERTICAL LINEAR FIXTURE INTEGRATED INTO WOOD SLAT WALL SYSTEM (TYPE Q)
R	SURFACE MOUNTED ROUND DECORATIVE FIXTURE (TYPE R)
S	SURFACE MOUNTED RING FIXTURE (TYPE S)
T	LINEAR WALL GRAZER LIGHT
U	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE U)
V	48" DECORATIVE RING SUSPENDED PENDANT LIGHT (TYPE V)
W	1" LINEAR EXTERIOR COVE LIGHT (TYPE W)
[Symbol]	9" CEILING DOWNLIGHT RECESSED CAN
[Symbol]	EXIT SIGN
[Symbol]	FA CEILING MOUNTED SPEAKER & STROBE
[Symbol]	FA CEILING MOUNTED STROBE
[Symbol]	SMOKE DETECTOR
[Symbol]	12" X 12" ACCESS DOOR
MS	MOTORIZED SHADES

FINISH NOTES:

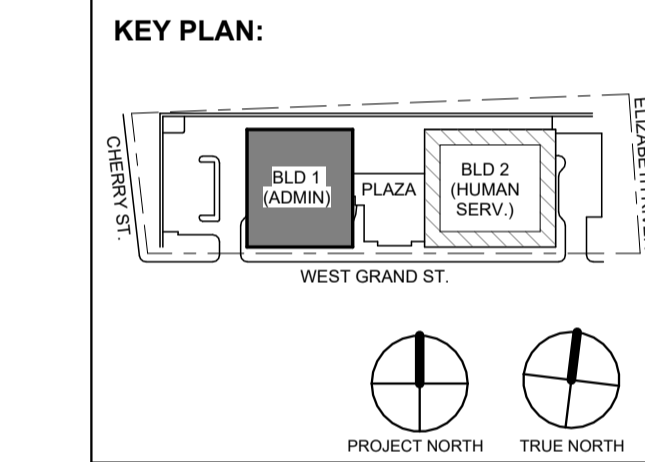
COLUMN / BEAM COVER
 BASIS OF DESIGN
 MANUFACTURER: CENTRIA
 PRODUCT: COLUMN COVERS SERIES 3000

WOOD LOOK ALUMINUM SLATS VARYING WIDTH - DEPTH
 BASIS OF DESIGN
 MANUFACTURER: CERTAINTED
 PRODUCT: MULTI BOX CONTINUOUS
 REFER TO DETAIL 2 / A1-202 FOR ADDITIONAL INFORMATION

MANUAL SHADE SYSTEMS
 BASIS OF DESIGN
 MANUFACTURER: MECOHSHADE
 PRODUCT: MECOH'S SYSTEM

TYPICAL CEILING HEIGHTS (BLDG 1):

TYPICAL OPEN OFFICE:	9'-5" A.F.F. (2' x 4' ACT-3)
TYPICAL PRIVATE OFFICE:	9'-5" A.F.F. (2' x 2' ACT-4)
TYPICAL CONFERENCE / MEETING ROOM:	9'-5" A.F.F.
TYPICAL STORAGE / FILE / COPY ROOM:	8'-0" A.F.F. (2' x 2' ACT-1)
ELEVATOR CORE:	9'-5" / 10'-5" A.F.F.
RESTROOMS:	8'-0" A.F.F. (ACT-3 OR ACT-4)



No.	Date	Description
1	12/01/2023	Addendum No. 1
2	12/08/2023	Addendum No. 2
3	11/08/2023	For Public Bid

Revisions / Issues

DIGroupArchitecture
 ARCHITECTURE FOR CHANGE
 15 Bethany Street • New Brunswick, NJ 08901 • T. 732.249.6242
 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T. 215.634.3400
 Jeffrey D. Venezia, AIA
 NJ RA #A10927100

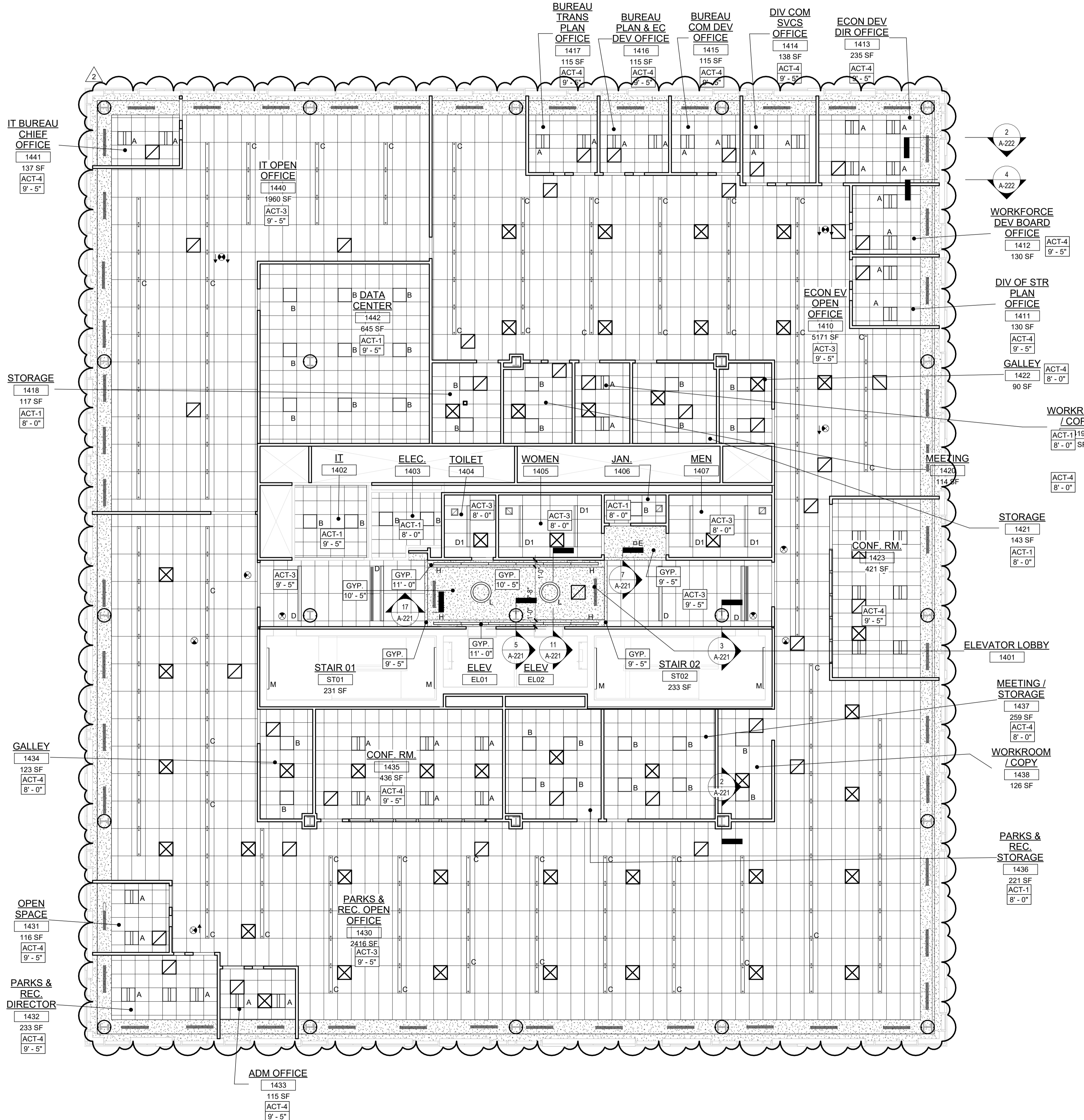
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
 81 & 93 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

Drawing Information:
 Project No: 20.072
 Date: 11/08/2023
 Drawn By: JB / AV / PC
 Checked By: JM / SH

Sheet Name:
BUILDING NO. 1 - LEVEL 4 - REFLECTED CEILING PLAN

Sheet No:
A1-204



1 BLDG 1 - LEVEL 4 - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES:

- A. BORDERS AT LAY-IN ACOUSTICAL CEILING PANELS SHALL BE CUT TO MATCH FACTORY EDGE PROFILE. NO EXPOSED FASTENERS SHALL BE PERMITTED INCLUDING POP RIVETS AND TAPSETS.
- B. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, U.O.N.
- C. ALL LIGHT FIXTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
- D. LIGHT FIXTURE TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE NOTED FOR QUANTITIES AND LOCATIONS ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SPECIFICATIONS, SWITCHING, EXIT LIGHTS, EMERGENCY LIGHTING, LIFE SAFETY EQUIPMENT AND CIRCUITING.
- E. MECHANICAL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS AND FOR ADDITIONAL INFORMATION REGARDING ALL HVAC EQUIPMENT INCLUDING HVAC REGISTERS, GRILLS, ETC.
- F. DIMENSIONED LIGHT FIXTURES ARE FROM FINISHED FACE OF PARTITIONS TO CENTERLINE OF FIXTURE TO CENTERLINE OF FIXTURE. ANY DISCREPANCIES WITH LOCATION OF LIGHT FIXTURES, SWITCHES, THERMOSTATS OR DIFFUSERS BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- G. THE CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS THAT INCORPORATES ALL TRADES AS REQUIRED BY THE SPECIFICATIONS.
- H. LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL OTHER SYSTEM DEVICES SHALL BE LOCATED CENTERED ON CEILING TILES, U.O.N.
- I. ALL ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN EACH ROOM U.O.N.
- J. ALL FLUSH MOUNTED LIGHT FIXTURES MOUNTED WITHIN A GYPSUM BOARD CEILING SHALL BE FITTED WITH FLUSH TRIM.
- K. WHERE DUCTWORK, CONDUIT, AND PIPING MUST CROSS OPEN CEILINGS, ALL WORK SHALL BE EXECUTED TO PRESENT A NEAT AND MINIMAL APPEARANCE.
- L. ALL EXPOSED WORK SHALL RUN PARALLEL OR PERPENDICULAR TO STRUCTURE, WITH 90 DEGREE BENDS.
- M. LOCATE WORK SO AS TO MINIMIZE EXPOSED. LOCATE WORK AS CLOSE AS POSSIBLE TO ADJACENT WALLS OR CEILING PLANES.
- N. PROVIDE ADDITIONAL STRUT SUPPORT SYSTEM TO SUPPORT FIXTURES WHERE LIGHT FIXTURES ARE NOT MOUNTED BELOW STRUCTURAL MEMBERS DO NOT MOUNT TO ROOF DECK, TYP.
- O. WHERE EXPOSED STRUCTURE IS INDICATED, ALL EXPOSED ROOF DECK, STRUCTURAL STEEL, CONCRETE BEAMS & DECK, PIPES, DUCTS, CONDUITS, ETC. SHALL BE PAINTED TO MATCH CEILING COLOR; SEE FINISH SCHEDULE.
- P. DOWNLIGHTS SHALL BE SYMMETRICALLY CENTERED IN ACOUSTICAL CEILING TILE AND GYPSUM BOARD CEILINGS U.O.N.
- Q. PROVIDE SOFFIT TRANSITIONS BETWEEN ACT CEILINGS AND GYPSUM BOARD CEILINGS.
- R. FURNISH AN INSTALL ACCESS DOORS IN GYP. BD. CEILINGS AS REQUIRED TO PROVIDE ACCESS TO ABOVE-CEILING VAV BOXES, DAMPERS, VALVES, EQUIPMENT, ETC. SEE MEP DRAWINGS FOR LOCATIONS AND SPECIFICATIONS, COORDINATE FINAL LOCATIONS WITH DESIGNER PRIOR TO INSTALLATION.
- S. ALL GYP. BD. CEILINGS IN WET AREAS SUCH AS TOILET ROOMS, BATHROOMS, AND JANITORS CLOSETS SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYP. BD. AS PER SPECIFICATIONS.
- T. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING TYPES.
- U. SEE A-220 SERIES DRAWINGS FOR TYPICAL CEILING DETAILS, U.O.N.
- V. ALL EXTERIOR WINDOWS WILL HAVE MANUAL ROLLER SHADES. REFER TO SPECIFICATIONS AND A-220 SERIES DRAWINGS FOR LOCATION AND DETAILS.
- W. ALL TRAINING ROOMS AND COMMISSIONER MEETING ROOM WILL HAVE POWERED ROLLER SHADES WITH BOTH SOLAR AND BLACKOUT CAPABILITY TO REFER TO SPECIFICATIONS.
- X. ALL GYP. BOARD SOFFITS AND FASCIAS TO BE PAINTED (PNT-2) U.O.N.

RCP LEGEND

Room name	ROOM NAME
101	ROOM NUMBER
ACT-1	CEILING TYPE
10'-0"	CEILING HEIGHT

	GYPSUM BOARD CEILING
	2' x 2' SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
	4' x 4' SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
	HVAC - RETURN
	HVAC - SUPPLY
	HVAC - LINEAR SUPPLY
	HVAC - BATHROOM EXHAUST FAN
	2'-0" x 2'-0" RECESSED TROFFEE CEILING LIGHT FIXTURE (TYPE A)
	2'-0" x 2'-0" RECESSED CEILING LIGHT FIXTURE (TYPE B)
	2" x VARYING LENGTH CEILING HUNG PENDANT LIGHT FIXTURE (TYPE C), MOUNTING HEIGHT - 8'-0" A.F.F.
	2" x 8'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D)
	2" x 8'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D1)
	2" x 4'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D2)
	4" SQUARE RECESSED DOWNLIGHT FIXTURE (TYPE E)
	RECESSED DIRECT LINEAR FIXTURE, VARYING LENGTHS (TYPE F)
	LINEAR DIRECT/INDIRECT PENDANT FIXTURE, VARYING LENGTHS (TYPE F1)
	4'-0" RECESSED LINEAR LIGHT FIXTURE (TYPE G)
	LINEAR WALL GRAZER LIGHT (TYPE H)
	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE I)
	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE J)
	LED ADJUSTABLE SPOT LIGHT FIXTURE (TYPE K)
	3'-0" DIAMETER RING SUSPENDED PENDANT LIGHT (TYPE L)
	6'-0" LINEAR SURFACE WALL MOUNT LIGHT FIXTURE (TYPE M), MOUNTING HEIGHT - 8'-0" ABOVE LANDING TO 4' OF FIXTURE AT EGRESS STAIRS MOUNTING HEIGHT - 7'-4" ABOVE LANDING TO 4' OF FIXTURE AT E.M.R.
	DECORATIVE ROUND SUSPENDED PENDANT LIGHT WITHIN VESTIBULE (TYPE N)
	COVE LIGHTING AT COLUMN (TYPE O)
	LED TAPE LIGHT AT DESK TRANSACTION TOP (TYPE P), SEE FLOOR PLAN FOR LOCATIONS.
	LED TAPE LIGHT AT COVE CEILING
	VERTICAL LINEAR FIXTURE INTEGRATED INTO WOOD SLAT WALL SYSTEM (TYPE Q)
	SURFACE MOUNTED ROUND DECORATIVE FIXTURE (TYPE R)
	SURFACE MOUNTED RING FIXTURE (TYPE S)
	LINEAR WALL GRAZER LIGHT
	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE U)
	48" DECORATIVE RING SUSPENDED PENDANT LIGHT (TYPE V)
	1" LINEAR EXTERIOR COVE LIGHT (TYPE W)
	6" CEILING DOWNLIGHT RECESSED CAN
	EXIT SIGN
	FA CEILING MOUNTED SPEAKER & STROBE
	FA CEILING MOUNTED STROBE
	SMOKE DETECTOR
	12" x 12" ACCESS DOOR
	MOTORIZED SHADES

FINISH NOTES:

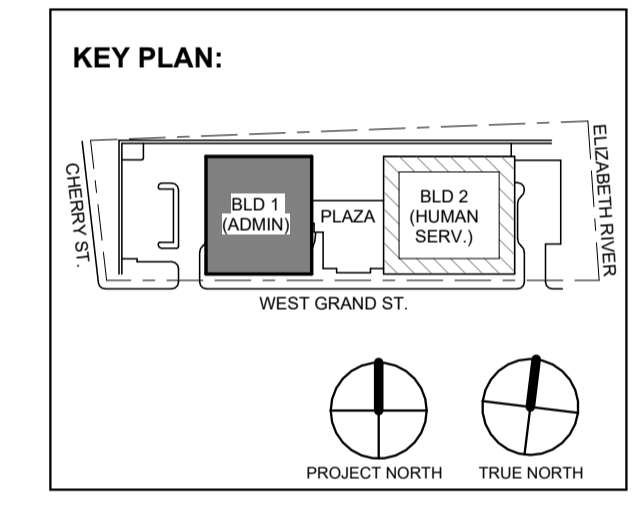
COLUMN / BEAM COVER
 BASIS OF DESIGN
 MANUFACTURER: CENTRIA
 PRODUCT: COLUMN COVERS SERIES 3000

WOOD LOOK ALUMINUM SLATS VARYED WIDTH - DEPTH
 BASIS OF DESIGN
 MANUFACTURER: CERTANTEO
 PRODUCT: MULTI BOX CONTINUOUS
 REFER TO DETAIL Z1-A1-202 FOR ADDITIONAL INFORMATION

MANUAL SHADE SYSTEMS
 BASIS OF DESIGN
 MANUFACTURER: MECOSHADE
 PRODUCT: MECOIS SYSTEM

TYPICAL CEILING HEIGHTS (BLDG 1):

TYPICAL OPEN OFFICE:	9'-5" A.F.F. (2 x 4' ACT-3)
TYPICAL PRIVATE OFFICE:	9'-5" A.F.F. (2 x 2' ACT-4)
TYPICAL CONFERENCE / MEETING ROOM:	9'-5" A.F.F.
TYPICAL STORAGE / FILE / COPY ROOM:	8'-0" A.F.F. (2 x 2' ACT-1)
ELEVATOR CORE:	9'-5" / 10'-5" A.F.F.
BESTROOMS:	8'-0" A.F.F. (ACT-3 OR ACT-4)



No.	Date	Description
2	12.08.2023	Addendum No. 2
1	12.01.2023	Addendum No. 1
1	11.08.2023	For Public Bid

Revisions / Issues

DiGroupArchitecture
 ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
 NJ RA AI 00827100

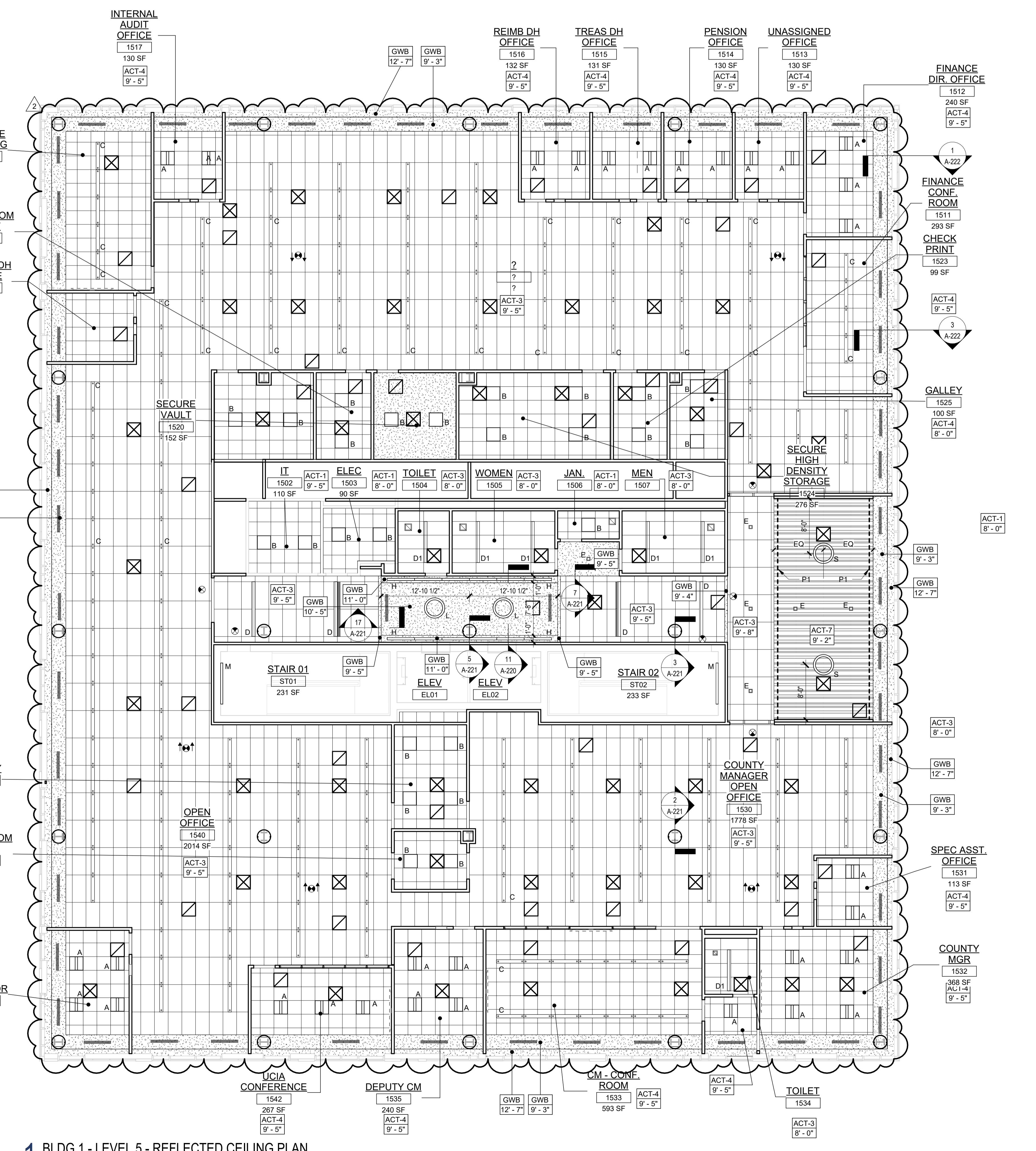
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
 81 & 93 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JB / AV / PC
 Checked By: JM / SH

Sheet Name:
BUILDING NO. 1 - LEVEL 5 - REFLECTED CEILING PLAN

Sheet No:
A1-205



1 BLDG 1 - LEVEL 5 - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

TYPICAL CEILING HEIGHTS (BLDG 2):

TYPICAL OPEN OFFICE:	9'-5" A.F.F.
TYPICAL PRIVATE OFFICE:	9'-5" A.F.F.
TYPICAL CONFERENCE / MEETING ROOM:	9'-5" A.F.F.
TYPICAL STORAGE / FILE / COPY ROOM:	8'-0" A.F.F.
ELEVATOR CORE:	9'-5" / 10'-5" A.F.F.
RESTROOMS:	8'-0" A.F.F.

FINISH NOTES:

COLUMN / BEAM COVER
BASIS OF DESIGN
 MANUFACTURER: CENTRIA
 PRODUCT: COLUMN COVERS SERIES 3000

WOOD LOOK ALUMINUM SLATS VARIED WIDTH + DEPTH
BASIS OF DESIGN
 MANUFACTURER: CERTANTEED
 PRODUCT: MULTI BOX CONTINUOUS
 REFER TO DETAIL 21 A-210 FOR ADDITIONAL INFORMATION

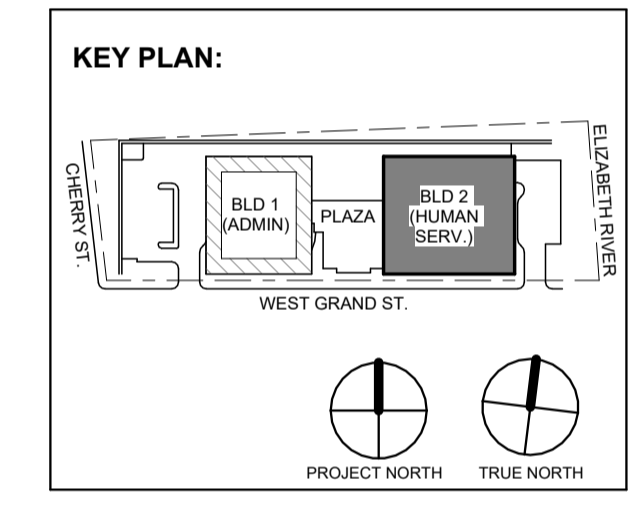
MANUAL SHADE SYSTEMS
BASIS OF DESIGN
 MANUFACTURER: MECOSHADE
 PRODUCT: MECOHS SYSTEM

REFLECTED CEILING PLAN NOTES:

- BORDERS AT LAY-IN ACOUSTICAL CEILING PANELS SHALL BE CUT TO MATCH FACTORY EDGE PROFILE. NO EXPOSED FASTENERS SHALL BE PERMITTED INCLUDING POP NUTS AND TAPSETS.
- HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, U.O.N.
- ALL LIGHT FIXTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
- LIGHT FIXTURE TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE NOTED FOR QUANTITIES AND LOCATIONS ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SPECIFICATIONS, SWITCHING, EXIT LIGHTS, EMERGENCY LIGHTING, LIFE SAFETY EQUIPMENT AND CIRCUITING.
- MECHANICAL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS AND FOR ADDITIONAL INFORMATION REGARDING ALL HVAC EQUIPMENT INCLUDING HVAC REGISTERS, GRILLS, ETC.
- DIMENSIONED LIGHT FIXTURES ARE FROM FINISHED FACE OF PARTITIONS TO CENTERLINE OF FIXTURE TO CENTERLINE OF FIXTURE. ANY DISCREPANCIES WITH LOCATION OF LIGHT FIXTURES, SWITCHES, THERMOSTATS, OR DIFFUSERS BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS THAT INCORPORATES ALL TRADES AS REQUIRED BY THE SPECIFICATIONS.
- LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL OTHER SYSTEM DEVICES SHALL BE LOCATED CENTERED ON CEILING TILES, U.O.N.
- ALL ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN EACH ROOM U.O.N.
- ALL FLUSH MOUNTED LIGHT FIXTURES MOUNTED WITHIN A GYPSUM BOARD CEILING SHALL BE FITTED WITH FLUSH TRIM.
- WHERE DUCTWORK, CONDUIT, AND PIPING MUST CROSS OPEN CEILINGS, ALL WORK SHALL BE EXECUTED TO PRESENT A NEAT AND MINIMAL APPEARANCE.
- ALL EXPOSED WORK SHALL RUN PARALLEL OR PERPENDICULAR TO STRUCTURE, WITH 90 DEGREE BENDS.
- LOCATE WORK SO AS TO MINIMIZE EXTENT EXPOSED. LOCATE WORK AS CLOSE AS POSSIBLE TO ADJACENT WALLS OR CEILING PLANES.
- PROVIDE ADDITIONAL STRUT SUPPORT SYSTEM TO SUPPORT FIXTURES WHERE LIGHT FIXTURES ARE NOT MOUNTED BELOW STRUCTURAL MEMBERS-DO NOT MOUNT TO ROOF DECK, TYP.
- WHERE EXPOSED STRUCTURE IS INDICATED, ALL EXPOSED ROOF DECK, STRUCTURAL STEEL, CONCRETE BEAMS & DECK, PIPES, DUCTS, CONDUITS, ETC. SHALL BE PAINTED TO MATCH CEILING COLOR. SEE FINISH SCHEDULE.
- DOWNLIGHTS SHALL BE SYMMETRICALLY CENTERED IN ACOUSTICAL CEILING TILE AND GYPSUM BOARD CEILINGS U.O.N.
- PROVIDE SOFFIT TRANSITIONS BETWEEN ACT CEILINGS AND GYPSUM BOARD CEILINGS.
- FURNISH AN INSTALL ACCESS DOORS IN GYP. RD. CEILINGS AS REQUIRED TO PROVIDE ACCESS TO ABOVE-CEILINGS VAV BOXES, DAMPERS, VALVES, EQUIPMENT, ETC. SEE MEP DRAWINGS FOR LOCATIONS AND SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH DESIGNER PRIOR TO INSTALLATION.
- ALL GYP. RD. CEILINGS IN WET AREAS SUCH AS TOILET ROOMS, BATHROOMS, AND JANITORS CLOSETS SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYP. BD. AS PER SPECIFICATIONS.
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING TYPES.
- SEE A-220 SERIES DRAWINGS FOR TYPICAL CEILING DETAILS, U.O.N.
- ALL EXTERIOR WINDOWS WILL HAVE MANUAL ROLLER SHADES. REFER TO SPECIFICATIONS AND A-220 SERIES DRAWINGS FOR LOCATION AND DETAILS.
- ALL TRAINING ROOMS AND COMMISSIONER MEETING ROOMS WILL HAVE POWERED ROLLER SHADES WITH BOTH SOLAR AND BLACKOUT CAPABILITY TO REFER TO SPECIFICATIONS.
- ALL GYP. BOARD SOFFITS AND FASCIAS TO BE PAINTED (PNT-2) U.O.N.

RCP LEGEND

Room name	ROOM NAME
101	ROOM NUMBER
ACT-1	CEILING TYPE
10'-0"	CEILING HEIGHT
[Symbol]	GYPSUM BOARD CEILING
[Symbol]	2' BY 2' SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	4' BY 4' SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	HVAC - RETURN
[Symbol]	HVAC - SUPPLY
[Symbol]	HVAC - LINEAR SUPPLY
[Symbol]	HVAC - BATHROOM EXHAUST FAN
A	2'-0" X 2'-0" RECESSED TROFFIT CEILING LIGHT FIXTURE (TYPE A)
B	2'-0" X 2'-0" RECESSED CEILING LIGHT FIXTURE (TYPE B)
C	2' x VARYING LENGTH CEILING HUNG PENDANT LIGHT FIXTURE (TYPE C) MOUNTING HEIGHT - 6'-0" A.F.F.
D	2' x 8'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D)
D1	2' x 6'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D1)
D2	2' x 4'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D2)
E	4" SQUARE RECESSED DOWNLIGHT FIXTURE (TYPE E)
F	RECESSED DIRECT LINEAR FIXTURE, VARYING LENGTHS (TYPE F)
F1	LINEAR DIRECT/DIRECT PENDANT FIXTURE, VARYING LENGTHS (TYPE F1)
G	4'-0" RECESSED LINEAR LIGHT FIXTURE (TYPE G)
H	LINEAR WALL GRAZER LIGHT (TYPE H)
I	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE I) AT CAPE
J	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE J)
K	LED ADJUSTABLE SPOT LIGHT FIXTURE (TYPE K)
L	3'-0" DIAMETER RING SUSPENDED PENDANT LIGHT (TYPE L)
M	6'-0" LINEAR SURFACE WALL MOUNT LIGHT FIXTURE (TYPE M) MOUNTING HEIGHT - 8'-0" ABOVE LANDING TO 4' OF FIXTURE AT EGRESS STAIRS MOUNTING HEIGHT - 7'-4" ABOVE LANDING TO 4' OF FIXTURE AT ELMR
N	DECORATIVE ROUND SUSPENDED PENDANT LIGHT WITHIN VESTIBULE (TYPE N)
O	COVE LIGHTING AT COLUMN (TYPE O)
P	LED TAPE LIGHT AT DESK TRANSACTION TOP (TYPE P), SEE FLOOR PLAN FOR LOCATIONS.
P1	LED TAPE LIGHT AT COVE CEILING
Q	VERTICAL LINEAR FIXTURE INTEGRATED INTO WOOD SLAT WALL SYSTEM (TYPE Q)
R	SURFACE MOUNTED ROUND DECORATIVE FIXTURE (TYPE R)
S	SURFACE MOUNTED RING FIXTURE (TYPE S)
T	LINEAR WALL GRAZER LIGHT
U	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE U)
V	4" DECORATIVE RING SUSPENDED PENDANT LIGHT (TYPE V)
W	1" LINEAR EXTERIOR COVE LIGHT (TYPE W)
X	6" CEILING DOWNLIGHT RECESSED CAN
[Symbol]	EXIT SIGN
[Symbol]	FA CEILING MOUNTED SPEAKER & STROBE
[Symbol]	FA CEILING MOUNTED STROBE
[Symbol]	SMOKE DETECTOR
[Symbol]	12' x 12' ACCESS DOOR
MS	MOTORIZED SHADES



No.	Date	Description
2	12.08.2023	Addendum No. 2
1	12.01.2023	Addendum No. 1
1	11.08.2023	For Public Bid

Revisions / Issues

DiGroupArchitecture
 ARCHITECTURE FOR CHANGE
 15 Bethany Street • New Brunswick, NJ 08901 • T. 732.249.6242
 2450 W. Hunting Park Ave • Philadelphia, PA 19122 • T. 215.634.3400

Jeffrey D. Venezia, AIA
 NJ RA #A10927100

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX - BUILDING 2
 81 & 93 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

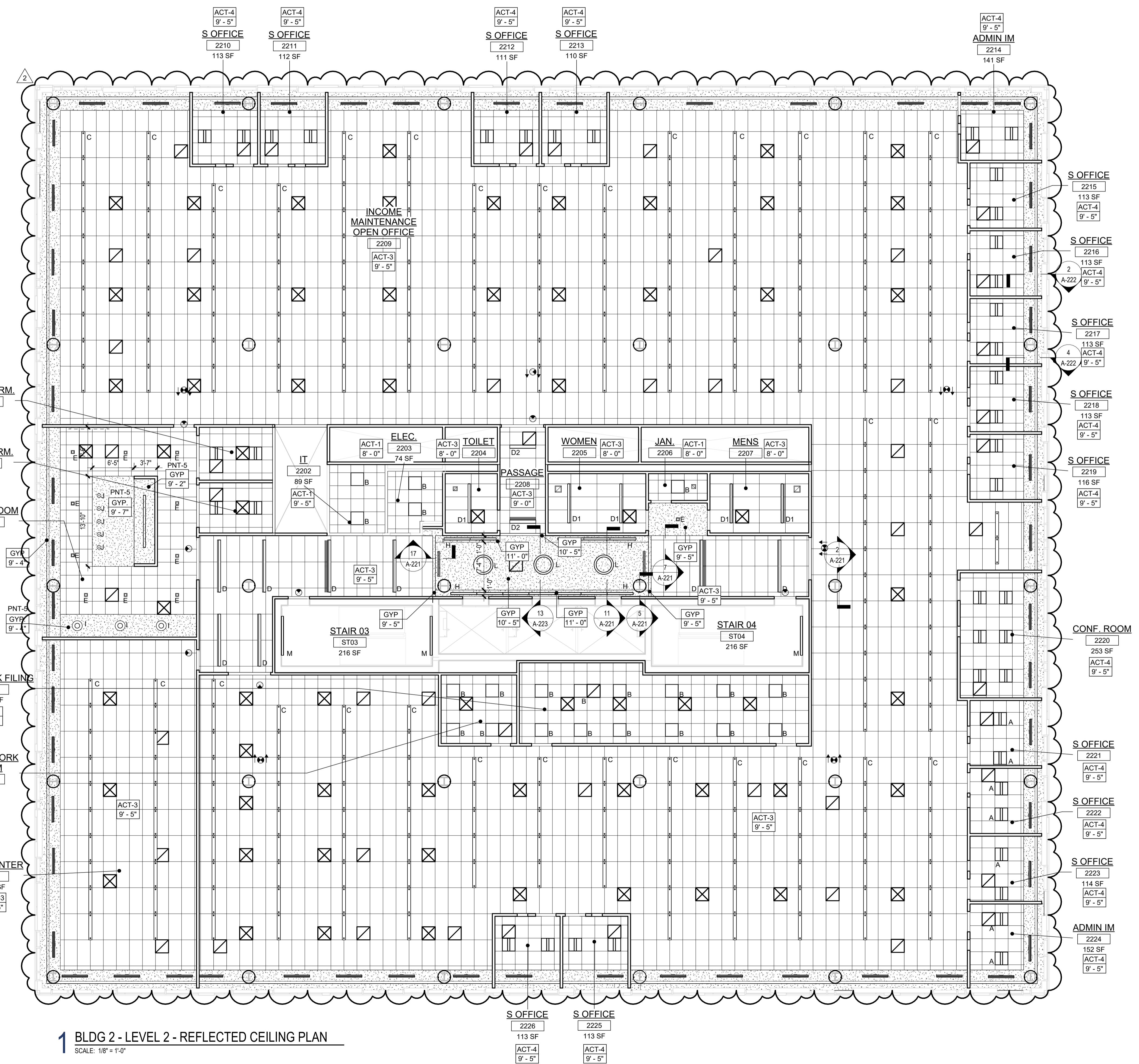
Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JB / AV / PC
 Checked By: JM / SH

Sheet Name:

BUILDING NO. 2 - LEVEL 2 - REFLECTED CEILING PLAN

Sheet No:

A2-212



1 BLDG 2 - LEVEL 2 - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

TYPICAL CEILING HEIGHTS (BLDG 2):

TYPICAL OPEN OFFICE:	9'-5" A.F.F.
TYPICAL PRIVATE OFFICE:	9'-5" A.F.F.
TYPICAL CONFERENCE / MEETING ROOM:	9'-5" A.F.F.
TYPICAL STORAGE / FILE / COPY ROOM:	8'-0" A.F.F.
ELEVATOR CORE:	9'-5" / 10'-5" A.F.F.
RESTROOMS:	8'-0" A.F.F.

FINISH NOTES:

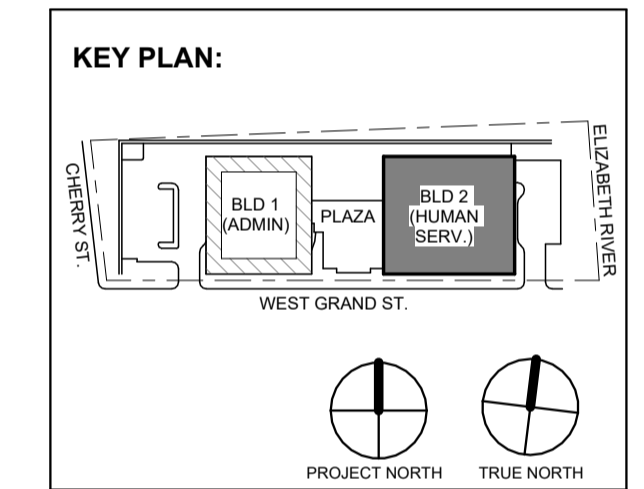
- COLUMN / BEAM COVER**
BASIS OF DESIGN
MANUFACTURER: CENTRIA
PRODUCT: COLUMN COVERS SERIES 3000
- WOOD LOOK ALUMINUM SLATS VARIED WIDTH + DEPTH**
BASIS OF DESIGN
MANUFACTURER: CERTANTEED
PRODUCT: MULTI BOX CONTINUOUS
REFER TO DETAIL 2 / A2-210 FOR ADDITIONAL INFORMATION
- MANUAL SHADE SYSTEMS**
BASIS OF DESIGN
MANUFACTURER: MECOSHADE
PRODUCT: MECO SHADE SYSTEM

REFLECTED CEILING PLAN NOTES:

- BORDERS AT LAY-IN ACOUSTICAL CEILING PANELS SHALL BE CUT TO MATCH FACTORY EDGE PROFILE. NO EXPOSED FASTENERS SHALL BE PERMITTED INCLUDING POP RIVETS AND TAPETS.
- HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, U.O.N.
- ALL LIGHT FIXTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
- LIGHT FIXTURE TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE NOTED FOR QUANTITIES AND LOCATIONS ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SPECIFICATIONS, SWITCHING, EXIT LIGHTS, EMERGENCY LIGHTING, LIFE SAFETY EQUIPMENT AND CIRCUITING.
- MECHANICAL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS AND FOR ADDITIONAL INFORMATION REGARDING ALL HVAC EQUIPMENT INCLUDING HVAC REGISTERS, GRILLS, ETC.
- DIMENSIONED LIGHT FIXTURES ARE FROM FINISHED FACE OF PARTITIONS TO CENTERLINE OF FIXTURE TO CENTERLINE OF FIXTURE. ANY DISCREPANCIES WITH LOCATION OF LIGHT FIXTURES, SWITCHES, THERMOSTATS, OR DIFFUSERS BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS THAT INCORPORATES ALL TRADES AS REQUIRED BY THE SPECIFICATIONS.
- LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL OTHER SYSTEM DEVICES SHALL BE LOCATED CENTERED ON CEILING TILES, U.O.N.
- ALL ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN EACH ROOM U.O.N.
- ALL FLUSH MOUNTED LIGHT FIXTURES MOUNTED WITHIN A GYPSUM BOARD CEILING SHALL BE FITTED WITH FLUSH TRIM.
- WHERE DUCTWORK, CONDUIT, AND PIPING MUST CROSS OPEN CEILINGS, ALL WORK SHALL BE EXECUTED TO PRESENT A NEAT AND MINIMAL APPEARANCE.
- ALL EXPOSED WORK SHALL RUN PARALLEL OR PERPENDICULAR TO STRUCTURE, WITH 90 DEGREE BENDS.
- LOCATE WORK SO AS TO MINIMIZE EXPOSED. LOCATE WORK AS CLOSE AS POSSIBLE TO ADJACENT WALLS OR CEILING PLANES.
- PROVIDE ADDITIONAL STRUT SUPPORT SYSTEM TO SUPPORT FIXTURES WHERE LIGHT FIXTURES ARE NOT MOUNTED BELOW STRUCTURAL MEMBERS DO NOT MOUNT TO ROOF DECK, TYP.
- WHERE EXPOSED STRUCTURE IS INDICATED, ALL EXPOSED ROOF DECK, STRUCTURAL STEEL, CONCRETE BEAMS & DECK, PIPES, DUCTS, CONDUITS, ETC. SHALL BE PAINTED TO MATCH CEILING COLOR. SEE FINISH SCHEDULE.
- DOWNLIGHTS SHALL BE SYMMETRICALLY CENTERED IN ACOUSTICAL CEILING TILE AND GYPSUM BOARD CEILINGS U.O.N.
- PROVIDE SOFFIT TRANSITIONS BETWEEN ACT CEILINGS AND GYPSUM BOARD CEILINGS
- FURNISH AN INSTALL ACCESS DOORS IN GYP. BD. CEILINGS AS REQUIRED TO PROVIDE ACCESS TO ABOVE-CEILING VAV BOXES, DAMPERS, VALVES, EQUIPMENT, ETC. SEE MEP DRAWINGS FOR LOCATIONS AND SPECIFICATIONS, COORDINATE FINAL LOCATIONS WITH DESIGNER PRIOR TO INSTALLATION.
- ALL GYP. BD. CEILINGS IN WET AREAS SUCH AS TOILET ROOMS, BATHROOMS, AND JANITORS CLOSETS SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYP. BD. AS PER SPECIFICATIONS.
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING TYPES.
- USE A-220 SERIES DRAWINGS FOR TYPICAL CEILING DETAILS, U.O.N.
- ALL EXTERIOR WINDOWS WILL HAVE MANUAL ROLLER SHADES. REFER TO SPECIFICATIONS AND A-220 SERIES DRAWINGS FOR LOCATION AND DETAILS.
- ALL TRAINING ROOMS AND COMMISSIONER MEETING ROOMS WILL HAVE POWERED ROLLER SHADES WITH BOTH SOLAR AND BLACKOUT CAPABILITY TO REFER TO SPECIFICATIONS.
- ALL GYP. BOARD SOFFITS AND FASCIAS TO BE PAINTED (PNT-2) U.O.N.

RCP LEGEND

Room name	ROOM NAME
101	ROOM NUMBER
ACT-1	CEILING TYPE
10'-0"	CEILING HEIGHT
	GYPSUM BOARD CEILING
	2' BY 2' SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
	4' BY 4' SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
	HVAC - RETURN
	HVAC - SUPPLY
	HVAC - LINEAR SUPPLY
	HVAC - BATHROOM EXHAUST FAN
	2' X 2' RECESSED TROFFER CEILING LIGHT FIXTURE (TYPE A)
	2' X 2' RECESSED CEILING LIGHT FIXTURE (TYPE B)
	2' X VARYING LENGTH CEILING HUNG PENDANT LIGHT FIXTURE (TYPE C), MOUNTING HEIGHT - 8'-0" A.F.F.
	2' X 4' RECESSED CEILING LIGHT FIXTURE (TYPE D)
	2' X 6' RECESSED CEILING LIGHT FIXTURE (TYPE D1)
	2' X 4' RECESSED CEILING LIGHT FIXTURE (TYPE D2)
	4' SQUARE RECESSED DOWNLIGHT FIXTURE (TYPE E)
	RECESSED DIRECT LINEAR FIXTURE, VARYING LENGTHS (TYPE F)
	LINEAR DIRECT/INDIRECT PENDANT FIXTURE, VARYING LENGTHS (TYPE F1)
	4'-0" RECESSED LINEAR LIGHT FIXTURE (TYPE G)
	LINEAR WALL GRAZER LIGHT (TYPE H)
	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE I) AT CAFE
	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE J)
	LED ADJUSTABLE SPOT LIGHT FIXTURE (TYPE K)
	3' DIAMETER RING SUSPENDED PENDANT LIGHT (TYPE L)
	6'-0" LINEAR SURFACE WALL MOUNT LIGHT FIXTURE (TYPE M), MOUNTING HEIGHT - 8'-0" ABOVE LANDING TO 4'-0" OF FIXTURE AT GRESS STAIRS, MOUNTING HEIGHT - 7'-4" ABOVE LANDING TO 4'-0" OF FIXTURE AT E.M.R.
	DECORATIVE ROUND SUSPENDED PENDANT LIGHT WITHIN VESTIBULE (TYPE N)
	COVE LIGHTING AT COLUMN (TYPE O)
	LED TAPE LIGHT AT DESK TRANSACTION TOP (TYPE P), SEE FLOOR PLAN FOR LOCATIONS.
	LED TAPE LIGHT AT COVE CEILING
	VERTICAL LINEAR FIXTURE INTEGRATED INTO WOOD SLAT WALL SYSTEM (TYPE Q)
	SURFACE MOUNTED ROUND DECORATIVE FIXTURE (TYPE R)
	SURFACE MOUNTED RING FIXTURE (TYPE S)
	LINEAR WALL GRAZER LIGHT
	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE U)
	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE V)
	1' LINEAR EXTERIOR COVE LIGHT (TYPE W)
	6' CEILING DOWNLIGHT RECESSED CAN
	EXIT SIGN
	FA CEILING MOUNTED SPEAKER & STROBE
	FA CEILING MOUNTED STROBE
	SMOKE DETECTOR
	12' X 12' ACCESS DOOR
	MOTORIZED SHADES



No.	Date	Description
2	12.08.2023	Addendum No. 2
1	12.01.2023	Addendum No. 1
1	11.08.2023	For Public Bid

Revisions / Issues

DiGroupArchitecture
ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
2450 W. Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
NJ RA #A10927100

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

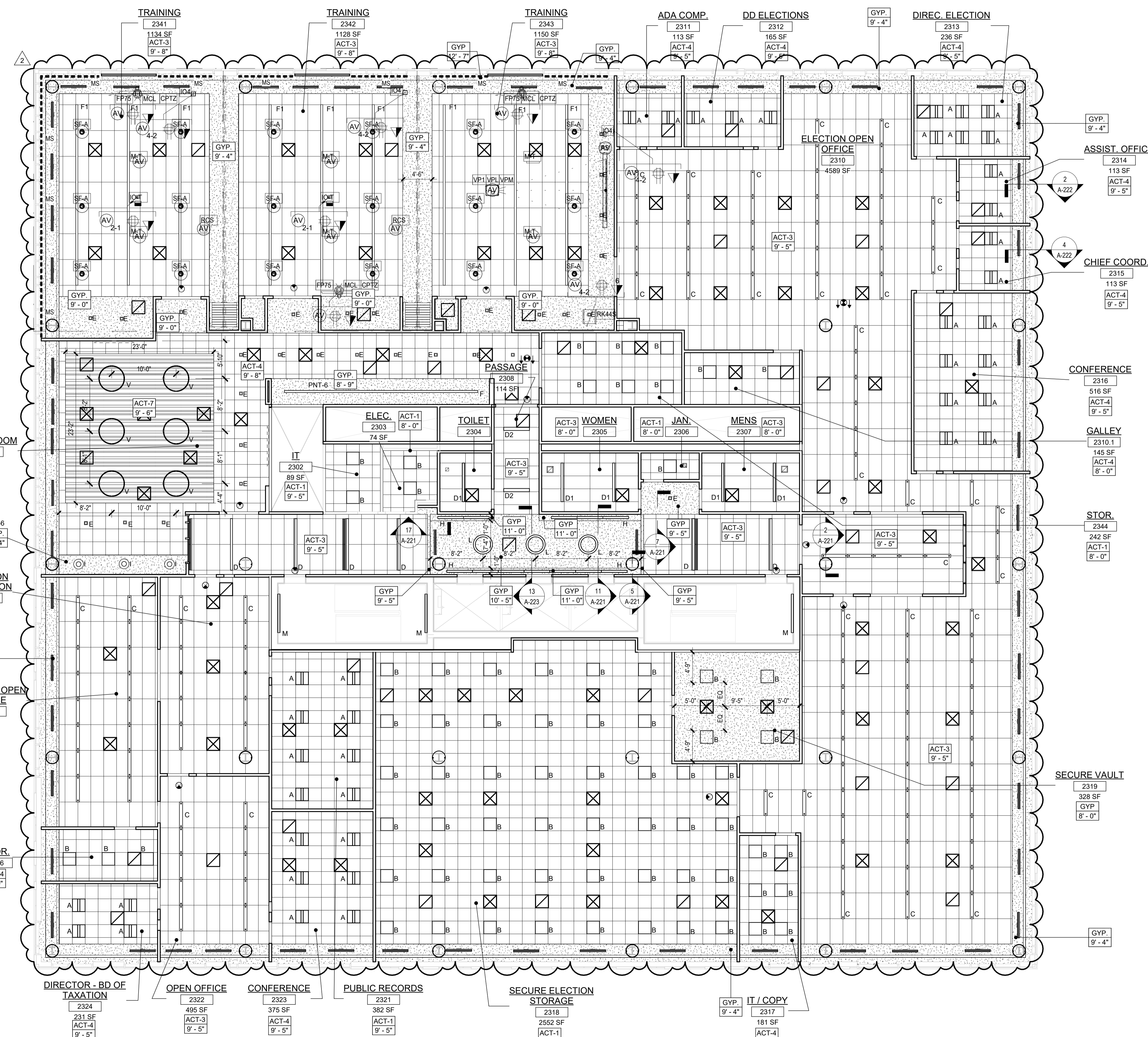
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX - BUILDING 2
81 & 93 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JB / AV / PC
Checked By: JM / SH

Sheet Name:
BUILDING NO.2 - LEVEL 3 - REFLECTED CEILING PLAN

Sheet No:
A2-213



1 BLDG 2 - LEVEL 3 - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

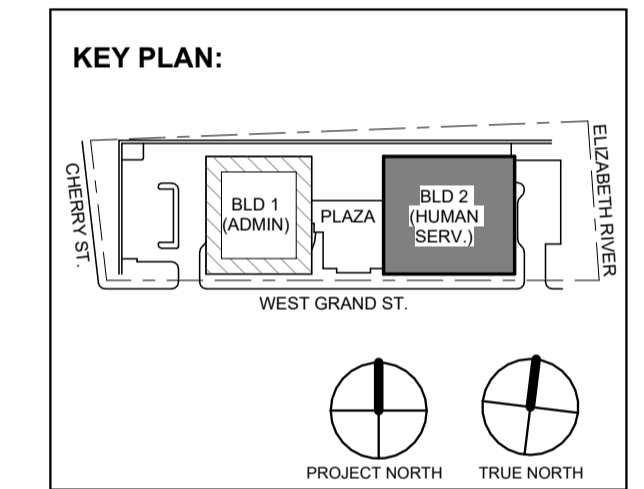
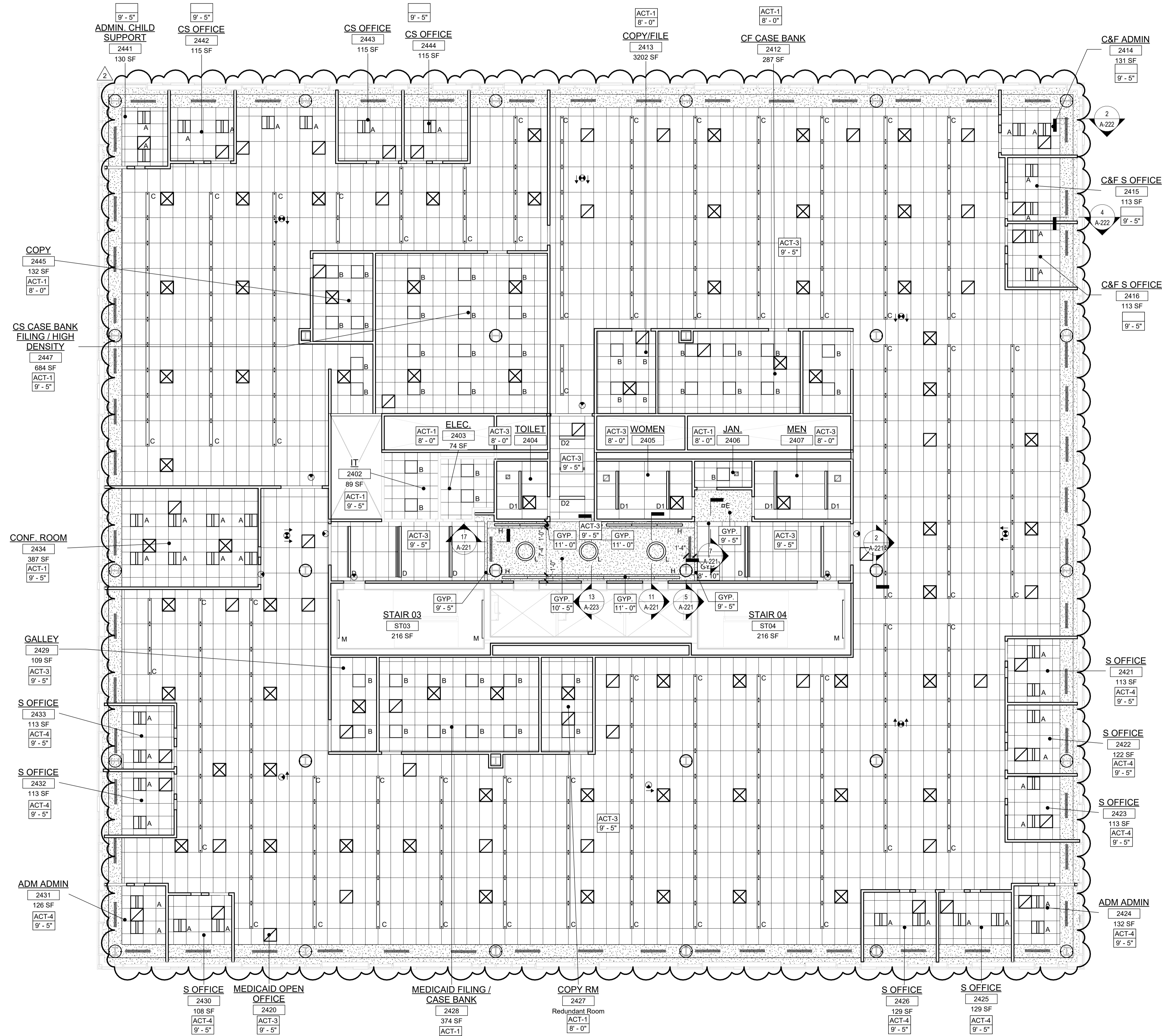
TYPICAL CEILING HEIGHTS (BLDG 2):	
TYPICAL OPEN OFFICE:	9'-5" A.F.F.
TYPICAL PRIVATE OFFICE:	9'-5" A.F.F.
TYPICAL CONFERENCE / MEETING ROOM:	9'-5" A.F.F.
TYPICAL STORAGE / FILE / COPY ROOM:	8'-0" A.F.F.
ELEVATOR CORE:	9'-5" / 10'-5" A.F.F.
RESTROOMS:	8'-0" A.F.F.

FINISH NOTES:	
COLUMN BEAM COVER BASIS OF DESIGN	MANUFACTURER: CENTRIA PRODUCT: COLUMN COVERS SERIES 3000
WOOD LOOK ALUMINUM SLATS VARIED WIDTH + DEPTH BASIS OF DESIGN	MANUFACTURER: CERTANTEED PRODUCT: MULTI BOX CONTINUOUS REFER TO DETAIL 2 / A2-210 FOR ADDITIONAL INFORMATION
MANUAL SHADE SYSTEMS BASIS OF DESIGN	MANUFACTURER: MECHOSHADE PRODUCT: MECOIS SYSTEM

RCP LEGEND	
Room name	ROOM NAME
101	ROOM NUMBER
ACT-1	CEILING TYPE
10'-0"	CEILING HEIGHT
[Symbol]	GYPSUM BOARD CEILING
[Symbol]	2 BY 2 SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	4 BY 4 SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	HVAC - RETURN
[Symbol]	HVAC - SUPPLY
[Symbol]	HVAC - LINEAR SUPPLY
[Symbol]	HVAC - BATHROOM EXHAUST FAN
A	2'-0" X 2'-0" RECESSED TROFFER CEILING LIGHT FIXTURE (TYPE A)
B	2'-0" X 2'-0" RECESSED CEILING LIGHT FIXTURE (TYPE B)
C	2" X 4" VARYING LENGTH CEILING HUNG PENDANT LIGHT FIXTURE (TYPE C) MOUNTING HEIGHT - 8'-0" A.F.F.
D	2" X 6" RECESSED CEILING LIGHT FIXTURE (TYPE D)
D1	2" X 6" RECESSED CEILING LIGHT FIXTURE (TYPE D1)
D2	2" X 6" RECESSED CEILING LIGHT FIXTURE (TYPE D2)
E	4" SQUARE RECESSED DOWNLIGHT FIXTURE (TYPE E)
F	RECESSED DIRECT LIGHT FIXTURE, VARYING LENGTHS (TYPE F)
F1	LINEAR DIRECT/INDIRECT PENDANT LIGHT, VARYING LENGTHS (TYPE F1)
G	4'-0" RECESSED LINEAR LIGHT FIXTURE (TYPE G)
H	LINEAR WALL GRAZER LIGHT (TYPE H)
I	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE I) AT CAFE
J	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE J)
K	LED ADJUSTABLE SPOT LIGHT FIXTURE (TYPE K)
L	3'-0" DIAMETER RING SUSPENDED PENDANT LIGHT (TYPE L)
M	6'-0" LINEAR SURFACE WALL MOUNT LIGHT FIXTURE (TYPE M) MOUNTING HEIGHT - 8'-0" ABOVE LANDING TO 4'-0" FIXTURE AT EGRESS STAIRS MOUNTING HEIGHT - 7'-4" ABOVE LANDING TO 4'-0" FIXTURE AT E.M.R.
N	DECORATIVE ROUND SUSPENDED PENDANT LIGHT WITHIN VESTIBULE (TYPE N)
O	COVE LIGHTING AT COLUMN (TYPE O)
P	LED TAPE LIGHT AT DESK TRANSACTION TOP (TYPE P). SEE FLOOR PLAN FOR LOCATIONS.
P1	LED TAPE LIGHT AT COVE CEILING
Q	VERTICAL LINEAR FIXTURE INTEGRATED INTO WOOD SLAT WALL SYSTEM (TYPE Q)
R	SURFACE MOUNTED ROUND DECORATIVE LIGHT (TYPE R)
S	SURFACE MOUNTED RING FIXTURE (TYPE S)
T	LINEAR WALL GRAZER LIGHT
U	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE U)
V	48" DECORATIVE RING SUSPENDED PENDANT LIGHT (TYPE V)
W	1" LINEAR EXTERIOR COVE LIGHT (TYPE W)
[Symbol]	6" CEILING DOWNLIGHT RECESSED CAN
[Symbol]	EXIT SIGN
[Symbol]	FA CEILING MOUNTED SPEAKER & STROBE
[Symbol]	FA CEILING MOUNTED STROBE
[Symbol]	SMOKE DETECTOR
[Symbol]	12" X 12" ACCESS DOOR
MS	MOTORIZED SHADES

REFLECTED CEILING PLAN NOTES:

- A. BORDERS AT LAY-IN ACOUSTICAL CEILING PANELS SHALL BE CUT TO MATCH FACTORY EDGE PROFILE. NO EXPOSED FASTENERS SHALL BE PERMITTED INCLUDING POP RIVETS AND TAPSETS.
- B. HEIGHT OF CEILING SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR CENTER OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN U.O.N.
- C. ALL LIGHT FIXTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
- D. LIGHT FIXTURES TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE NOTED FOR QUANTITIES AND LOCATIONS ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SPECIFICATIONS, SWITCHING, EXIT LIGHTS, EMERGENCY LIGHTING, LIFE SAFETY EQUIPMENT AND CIRCUITING.
- E. MECHANICAL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS AND FOR ADDITIONAL INFORMATION REGARDING ALL HVAC EQUIPMENT INCLUDING HVAC REGISTERS, GRILLS, ETC.
- F. DIMENSIONED LIGHT FIXTURES ARE FROM FINISHED FACE OF PARTITIONS TO CENTERLINE OF LIGHT FIXTURE. ANY DISCREPANCIES WITH LOCATION OF LIGHT FIXTURES, SWITCHES, THERMOSTATS, OR DIFFUSERS BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- G. THE CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS THAT INCORPORATES ALL TRADES AS REQUIRED BY THE SPECIFICATIONS.
- H. LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL OTHER SYSTEM DEVICES SHALL BE LOCATED CENTERED ON CEILING TILES, U.O.N.
- I. ALL ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN EACH ROOM U.O.N.
- J. ALL FLUSH MOUNTED LIGHT FIXTURES MOUNTED WITHIN A GYPSUM BOARD CEILING SHALL BE FITTED WITH FLUSH TRIM.
- K. WHERE DUCTWORK, CONDUIT, AND PIPING MUST CROSS OPEN CEILINGS, ALL WORK SHALL BE EXECUTED TO PRESENT A NEAT AND MINIMAL APPEARANCE.
- L. ALL EXPOSED WORK SHALL RUN PARALLEL OR PERPENDICULAR TO STRUCTURE, WITH 90 DEGREE BENDS.
- M. LOCATE WORK SO AS TO MINIMIZE EXPOSED. LOCATE WORK AS CLOSE AS POSSIBLE TO ADJACENT WALLS OR CEILING PLANES.
- N. PROVIDE ADDITIONAL STRUT SUPPORT SYSTEM TO SUPPORT FIXTURES WHERE LIGHT FIXTURES ARE NOT MOUNTED BELOW STRUCTURAL MEMBERS DO NOT MOUNT TO ROOF DECK, TYP.
- O. WHERE EXPOSED STRUCTURE IS INDICATED, ALL EXPOSED ROOF DECK, STRUCTURAL STEEL, CONCRETE BEAMS & DECK, PIPES, DUCTS, CONDUITS, ETC. SHALL BE PAINTED TO MATCH CEILING COLOR. SEE FINISH SCHEDULE.
- P. DOWNLIGHTS SHALL BE SYMMETRICALLY CENTERED IN ACOUSTICAL CEILING TILE AND GYPSUM BOARD CEILINGS U.O.N.
- Q. PROVIDE SOFFIT TRANSITIONS BETWEEN ACT CEILINGS AND GYPSUM BOARD CEILINGS
- R. FURNISH AN INSTALL ACCESS DOORS IN GYP. BD. CEILINGS AS REQUIRED TO PROVIDE ACCESS TO ABOVE-CEILING VAN BOXES, DAMPERS, VALVES, EQUIPMENT, ETC. SEE MEP DRAWINGS FOR LOCATIONS AND SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH DESIGNER PRIOR TO INSTALLATION.
- S. ALL GYP. BD. CEILINGS IN WET AREAS SUCH AS TOILET ROOMS, BATHROOMS, AND JANITORS CLOSETS SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYP. BD. AS PER SPECIFICATIONS.
- T. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING TYPES.
- U. SEE A-220 SERIES DRAWINGS FOR TYPICAL CEILING DETAILS, U.O.N.
- V. ALL EXTERIOR WINDOWS WILL HAVE MANUAL ROLLER SHADES. REFER TO SPECIFICATIONS AND A-220 SERIES DRAWINGS FOR LOCATION AND DETAILS.
- W. ALL TRAINING ROOMS AND COMMISSIONER MEETING ROOMS WILL HAVE POWERED ROLLER SHADES WITH BOTH SOLAR AND BLACKOUT CAPABILITY TO REFER TO SPECIFICATIONS.
- X. ALL GYP. BOARD SOFFITS AND FASCIAS TO BE PAINTED (PMT-2) U.O.N.



No.	Date	Description
2	12.08.2023	Addendum No. 2
1	12.01.2023	Addendum No. 1
1	11.08.2023	For Public Bid

Revisions / Issues

DiGroupArchitecture
ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
81 & 93 WEST GRAND STREET • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
NJ RA #A10927100

Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX - BUILDING 2
81 & 93 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JB / AV / PC
Checked By: JM / SH

Sheet Name:
BUILDING NO.2 - LEVEL 4 - REFLECTED CEILING PLAN

Sheet No:

A2-214

1 BLDG 2 - LEVEL 4 - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

TYPICAL CEILING HEIGHTS (BLDG 2):

TYPICAL OPEN OFFICE:	9'-5" A.F.F.
TYPICAL PRIVATE OFFICE:	9'-5" A.F.F.
TYPICAL CONFERENCE / MEETING ROOM:	9'-5" A.F.F.
TYPICAL STORAGE / FILE / COPY ROOM:	8'-0" A.F.F.
ELEVATOR CORE:	9'-5" / 10'-5" A.F.F.
BESTROOMS:	8'-0" A.F.F.

FINISH NOTES:

COLUMN / BEAM COVER
BASIS OF DESIGN
 MANUFACTURER: CENTRIA
 PRODUCT: COLUMN COVERS SERIES 3000

WOOD LOOK ALUMINUM SLATS VARIED WIDTH + DEPTH
BASIS OF DESIGN
 MANUFACTURER: CERTANTEED
 PRODUCT: MULTI BOX CONTINUOUS
 REFER TO DETAIL 2 / A2-210 FOR ADDITIONAL INFORMATION

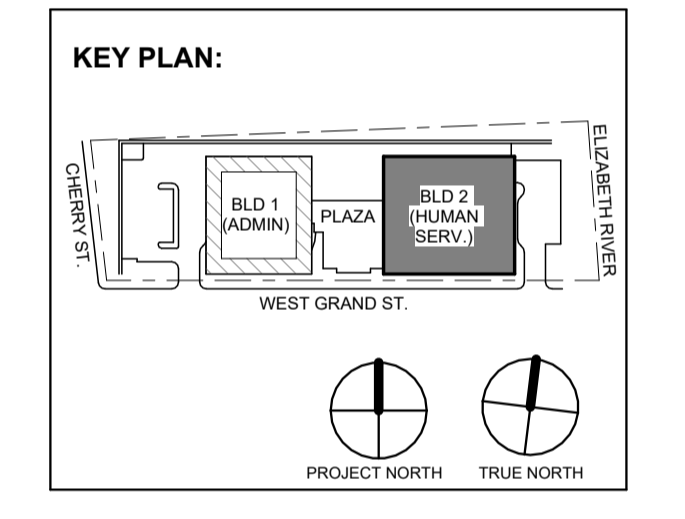
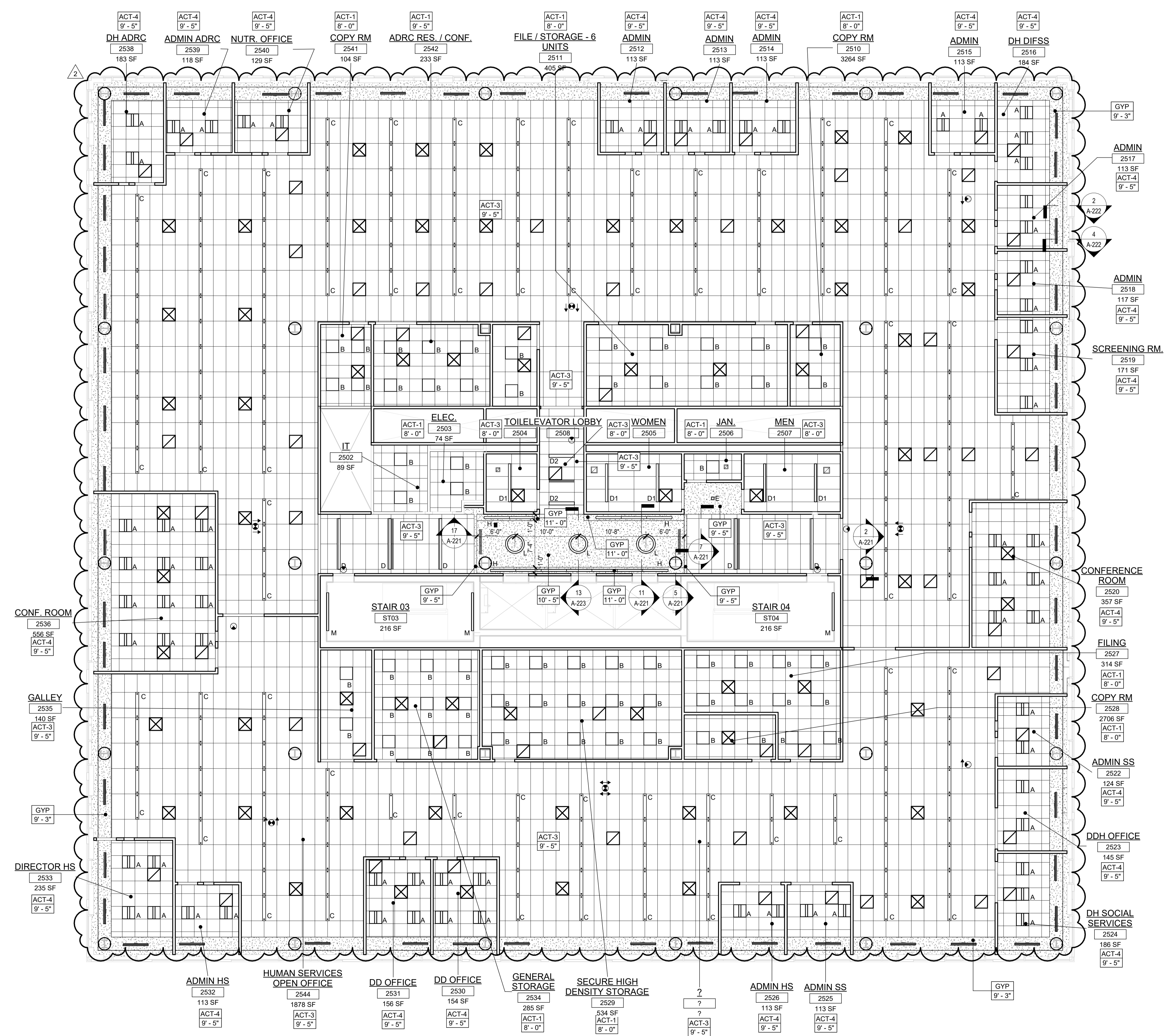
MANUAL SHADE SYSTEMS
BASIS OF DESIGN
 MANUFACTURER: MECO SHADE
 PRODUCT: MECO'S SYSTEM

RCP LEGEND

Room name	ROOM NAME
101	ROOM NUMBER
ACT-1	CEILING TYPE
10'-0"	CEILING HEIGHT
[Symbol]	GYPSUM BOARD CEILING
[Symbol]	2 BY 2 SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	4 BY 4 SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	HVAC - RETURN
[Symbol]	HVAC - SUPPLY
[Symbol]	HVAC - LINEAR SUPPLY
[Symbol]	HVAC - BATHROOM EXHAUST FAN
A	2'-0" X 2'-0" RECESSED TROFEE CEILING LIGHT FIXTURE (TYPE A)
B	2'-0" X 2'-0" RECESSED CEILING LIGHT FIXTURE (TYPE B)
C	2" X VARYING LENGTH CEILING HUNG PENDANT LIGHT FIXTURE (TYPE C) MOUNTING HEIGHT - 8'-0" A.F.F.
D	2" X 8'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D)
D1	2" X 8'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D1)
D2	2" X 4'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D2)
E	4" SQUARE RECESSED DOWNLIGHT FIXTURE (TYPE E)
F	RECESSED DIRECT LINEAR FIXTURE, VARYING LENGTHS (TYPE F)
F1	LINEAR DIRECT/INDIRECT PENDANT FIXTURE, VARYING LENGTHS (TYPE F1)
G	4'-0" RECESSED LINEAR LIGHT FIXTURE (TYPE G)
H	LINEAR WALL GRAZER LIGHT (TYPE H)
I	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE I) AT CAFFE
J	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE J)
K	LED ADJUSTABLE SPOT LIGHT FIXTURE (TYPE K)
L	3'-0" DIAMETER RING SUSPENDED PENDANT LIGHT (TYPE L)
M	6'-0" LINEAR SURFACE WALL MOUNT LIGHT FIXTURE (TYPE M) MOUNTING HEIGHT - 8'-0" ABOVE LANDING TO 4' OF FIXTURE AT EGRESS STAIRS MOUNTING HEIGHT - 7'-4" ABOVE LANDING TO 4' OF FIXTURE AT E.M.R.
N	DECORATIVE ROUND SUSPENDED PENDANT LIGHT WITHIN VESTIBULE (TYPE N)
O	COVE LIGHTING AT COLUMN (TYPE O)
P	LED TAPE LIGHT AT DESK TRANSACTION TOP (TYPE P), SEE FLOOR PLAN FOR LOCATIONS.
P1	LED TAPE LIGHT AT COVE CEILING
Q	VERTICAL LINEAR FIXTURE INTEGRATED INTO WOOD SLAT WALL SYSTEM (TYPE Q)
R	SURFACE MOUNTED ROUND DECORATIVE FIXTURE (TYPE R)
S	SURFACE MOUNTED RING FIXTURE (TYPE S)
T	LINEAR WALL GRAZER LIGHT
U	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE U)
V	48" DECORATIVE RING SUSPENDED PENDANT LIGHT (TYPE V)
W	1" LINEAR EXTERIOR COVE LIGHT (TYPE W)
[Symbol]	6" CEILING DOWNLIGHT RECESSED CAN
[Symbol]	EXIT SIGN
[Symbol]	FA CEILING MOUNTED SPEAKER & STROBE
[Symbol]	FA CEILING MOUNTED STROBE
[Symbol]	SMOKE DETECTOR
[Symbol]	12" X 12" ACCESS DOOR
MS	MOTORIZED SHADES

REFLECTED CEILING PLAN NOTES:

- A. BORDERS AT LAY-IN ACOUSTICAL CEILING PANELS SHALL BE CUT TO MATCH FACTORY EDGE PROFILE. NO EXPOSED FASTENERS SHALL BE PERMITTED INCLUDING POP RIVETS AND TAPPEES.
- B. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, U.O.N.
- C. ALL LIGHT FIXTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
- D. LIGHT FIXTURE TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE NOTED FOR QUANTITIES AND LOCATIONS ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SPECIFICATIONS, SWITCHING, EXIT LIGHTS, EMERGENCY LIGHTING, LIFE SAFETY EQUIPMENT AND CIRCUITING.
- E. MECHANICAL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS AND FOR ADDITIONAL INFORMATION REGARDING ALL HVAC EQUIPMENT INCLUDING HVAC REGISTERS, GRILLS, ETC.
- F. DIMENSIONED LIGHT FIXTURES ARE FROM FINISHED FACE OF PARTITIONS TO CENTERLINE OF FIXTURE. ANY DISCREPANCIES WITH LOCATION OF LIGHT FIXTURES, SWITCHES, THERMOSTATS, OR DIFFUSERS BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- G. THE CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS THAT INCORPORATES ALL TRADES AS REQUIRED BY THE SPECIFICATIONS.
- H. LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL OTHER SYSTEM DEVICES SHALL BE LOCATED CENTERED ON CEILING TILES U.O.N.
- I. ALL ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN EACH ROOM U.O.N.
- J. ALL FLUSH MOUNTED LIGHT FIXTURES MOUNTED WITHIN A GYPSUM BOARD CEILING SHALL BE FITTED WITH FLUSH TRIM.
- K. WHERE DUCTWORK, CONDUIT, AND PIPING MUST CROSS OPEN CEILINGS, ALL WORK SHALL BE EXCUTED TO PRESENT A NEAT AND MINIMAL APPEARANCE.
- L. ALL EXPOSED WORK SHALL RUN PARALLEL OR PERPENDICULAR TO STRUCTURE, WITH 90 DEGREE BENDS.
- M. LOCATE WORK SO AS TO MINIMIZE EXPOSED. LOCATE WORK AS CLOSE AS POSSIBLE TO ADJACENT WALLS OR CEILING PLANES.
- N. PROVIDE ADDITIONAL TRUSS SUPPORT SYSTEM TO SUPPORT FIXTURES WHERE LIGHT FIXTURES ARE NOT MOUNTED BELOW STRUCTURAL MEMBERS-DO NOT MOUNT TO ROOF DECK, TYP.
- O. WHERE EXPOSED STRUCTURE IS INDICATED, ALL EXPOSED ROOF DECK, STRUCTURAL STEEL, CONCRETE BEAMS & DECK, PIPES, DUCTS, CONDUITS, ETC. SHALL BE PAINTED TO MATCH CEILING COLOR, SEE FINISH SCHEDULE.
- P. DOWNLIGHTS SHALL BE SYMMETRICALLY CENTERED IN ACOUSTICAL CEILING TILE AND GYPSUM BOARD CEILINGS U.O.N.
- Q. PROVIDE SOFFIT TRANSITIONS BETWEEN ACT CEILINGS AND GYPSUM BOARD CEILINGS
- R. FURNISH AN INSTALL ACCESS DOORS IN GYP. BD. CEILINGS AS REQUIRED TO PROVIDE ACCESS TO ABOVE-CEILINGS W/AV BOXES, DAMPERS, VALVES, EQUIPMENT, ETC. SEE MEP DRAWINGS FOR LOCATIONS AND SPECIFICATIONS, COORDINATE FINAL LOCATIONS WITH DESIGNER PRIOR TO INSTALLATION.
- S. ALL GYP. BD. CEILINGS IN WET AREAS SUCH AS TOILET ROOMS, BATHROOMS, AND JANITORS CLOSETS SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYP. BD. AS PER SPECIFICATIONS.
- T. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING TYPES.
- U. SEE A-220 SERIES DRAWINGS FOR TYPICAL CEILING DETAILS, U.O.N.
- V. ALL EXTERIOR WINDOWS WILL HAVE MANUAL, ROLLER SHADES. REFER TO SPECIFICATIONS AND A-220 SERIES DRAWINGS FOR LOCATION AND DETAILS.
- W. ALL TRAINING ROOMS AND COMMISSIONER MEETING ROOMS WILL HAVE POWERED ROLLER SHADES WITH BOTH SOLAR AND BLACKOUT CAPABILITY TO REFER TO SPECIFICATIONS.
- X. ALL GYP. BOARD SOFFITS AND FASCIAS TO BE PAINTED (PNT-2) U.O.N.



No.	Date	Description
2	12.08.2023	Addendum No. 2
1	12.01.2023	Addendum No. 1
1	11.08.2023	For Public Bid

Revisions / Issues

DiGroupArchitecture
 ARCHITECTURE FOR CHANGE

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
 2450 W. Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
 NJ RA #1 09827100

Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX - BUILDING 2
 81 & 93 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY, 07202

Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JB / AV / PC
 Checked By: JM / SH

Sheet Name:
BUILDING NO.2 - LEVEL 5 - REFLECTED CEILING PLAN

Sheet No:
A2-215

1 BLDG 2 - LEVEL 5 - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

TYPICAL CEILING HEIGHTS (BLDG 2):

TYPICAL OPEN OFFICE:	9'-5" A.F.F.
TYPICAL PRIVATE OFFICE:	9'-5" A.F.F.
TYPICAL CONFERENCE / MEETING ROOM:	9'-5" A.F.F.
TYPICAL STORAGE / FILE / COPY ROOM:	8'-0" A.F.F.
ELEVATOR CORE:	9'-5" / 10'-5" A.F.F.
RESTROOMS:	8'-0" A.F.F.

FINISH NOTES:

COLUMN / BEAM COVER
BASIS OF DESIGN
 MANUFACTURER: CENTRIA
 PRODUCT: COLUMN COVERS SERIES 3000

WOOD LOOK ALUMINUM SLATS VARIED WIDTH + DEPTH
BASIS OF DESIGN
 MANUFACTURER: CERTANTEO
 PRODUCT: MULTI BOX CONTINUOUS
 REFER TO DETAIL 2 / A2-210 FOR ADDITIONAL INFORMATION

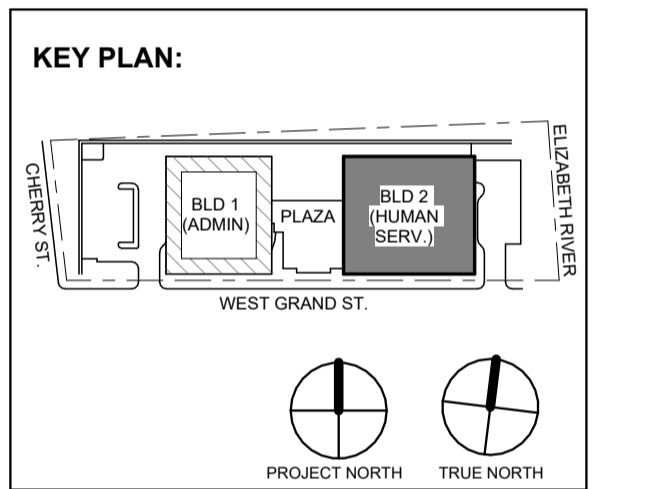
MANUAL SHADE SYSTEMS
BASIS OF DESIGN
 MANUFACTURER: MECOSHADE
 PRODUCT: MECO SYSTEM

REFLECTED CEILING PLAN NOTES:

- BORDERS AT LAY-IN ACOUSTICAL CEILING PANELS SHALL BE CUT TO MATCH FACTORY EDGE PROFILE. NO EXPOSED FASTENERS SHALL BE PERMITTED INCLUDING POP RIVETS AND TAPSETS.
- HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, U.O.N.
- ALL LIGHT FIXTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
- LIGHT FIXTURE TYPES SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS ARE NOTED FOR QUANTITIES AND LOCATIONS ONLY. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SPECIFICATIONS, SWITCHING, EXIT LIGHTS, EMERGENCY LIGHTING, LIFE SAFETY EQUIPMENT AND CIRCUITING.
- MECHANICAL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. SEE MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS AND FOR ADDITIONAL INFORMATION REGARDING ALL HVAC EQUIPMENT INCLUDING HVAC REGISTERS, GRILLES, ETC.
- DIMENSIONED LIGHT FIXTURES ARE FROM FINISHED FACE OF PARTITIONS TO CENTERLINE OF FIXTURE TO CENTERLINE OF FIXTURE. ANY DISCREPANCIES WITH LOCATION OF LIGHT FIXTURES, SWITCHES, THERMOSTATS, OR DIFFUSERS BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE CLARIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL SUBMIT COORDINATION DRAWINGS THAT INCORPORATES ALL TRADES AS REQUIRED BY THE SPECIFICATIONS.
- LIGHT FIXTURES, DIFFUSERS, GRILLES AND ALL OTHER SYSTEM DEVICES SHALL BE LOCATED CENTERED ON CEILING TILES, U.O.N.
- ALL ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN EACH ROOM U.O.N.
- ALL FLUSH MOUNTED LIGHT FIXTURES MOUNTED WITHIN A GYPSUM BOARD CEILING SHALL BE FITTED WITH FLUSH TRIM.
- WHERE DUCTWORK, CONDUIT, AND PIPING MUST CROSS OPEN CEILINGS, ALL WORK SHALL BE EXECUTED TO PRESENT A NEAT AND MINIMAL APPEARANCE.
- ALL EXPOSED WORK SHALL RUN PARALLEL OR PERPENDICULAR TO STRUCTURE, WITH 90 DEGREE BENDS.
- LOCATE WORK SO AS TO MINIMIZE EXPOSED. LOCATE WORK AS CLOSE AS POSSIBLE TO ADJACENT WALLS OR CEILING PLANES.
- PROVIDE ADDITIONAL TRUSS SUPPORT SYSTEM TO SUPPORT FIXTURES WHERE LIGHT FIXTURES ARE NOT MOUNTED BELOW STRUCTURAL MEMBERS DO NOT MOUNT TO ROOF DECK, TYP.
- WHERE EXPOSED STRUCTURE IS INDICATED, ALL EXPOSED ROOF DECK, STRUCTURAL STEEL, CONCRETE BEAMS & DECK, PIPES, DUCTS, CONDUITS, ETC. SHALL BE PAINTED TO MATCH CEILING COLOR. SEE FINISH SCHEDULE.
- DOWNLIGHTS SHALL BE SYMMETRICALLY CENTERED IN ACOUSTICAL CEILING TILE AND GYPSUM BOARD CEILINGS U.O.N.
- PROVIDE SOFFIT TRANSITIONS BETWEEN ACT CEILINGS AND GYPSUM BOARD CEILINGS
- FURNISH AN INSTALL ACCESS DOORS IN GYP. BD. CEILINGS AS REQUIRED TO PROVIDE ACCESS TO ABOVE CEILINGS VAV BOXES, DAMPERS, VALVES, EQUIPMENT, ETC. SEE MEP DRAWINGS FOR LOCATIONS AND SPECIFICATIONS. COORDINATE FINAL LOCATIONS WITH DESIGNER PRIOR TO INSTALLATION.
- ALL GYP. BD. CEILINGS IN WET AREAS SUCH AS TOILET ROOMS, BATHROOMS, AND JANITORS CLOSETS SHALL RECEIVE MOISTURE AND MOLD RESISTANT GYP. BD. AS PER SPECIFICATIONS.
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING CEILING TYPES.
- SEE A-220 SERIES DRAWINGS FOR TYPICAL CEILING DETAILS, U.O.N.
- ALL EXTERIOR WINDOWS WILL HAVE MANUAL ROLLER SHADES. REFER TO SPECIFICATIONS AND A-220 SERIES DRAWINGS FOR LOCATION AND DETAILS.
- ALL TRAINING ROOMS AND COMMISSIONER MEETING ROOMS WILL HAVE POWERED ROLLER SHADES WITH BOTH SOLAR AND BLACKOUT CAPABILITY TO REFER TO SPECIFICATIONS.
- ALL GYP. BOARD SOFFITS AND FASCIAS TO BE PAINTED (PNT-2) U.O.N.

RCP LEGEND

Room name	ROOM NAME
101	ROOM NUMBER
ACT-1	CEILING TYPE
10'-0"	CEILING HEIGHT
[Symbol]	GYPSUM BOARD CEILING
[Symbol]	2 BY 2 SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	4 BY 4 SUSPENDED CEILING GRID, CEILING HEIGHT INDICATED ON PLANS, GRID TO BE CENTERED IN AREA U.O.N.
[Symbol]	HVAC - RETURN
[Symbol]	HVAC - SUPPLY
[Symbol]	HVAC - LINEAR SUPPLY
[Symbol]	HVAC - BATHROOM EXHAUST FAN
A	2'-0" X 2'-0" RECESSED TROFFER CEILING LIGHT FIXTURE (TYPE A)
B	2'-0" X 2'-0" RECESSED CEILING LIGHT FIXTURE (TYPE B)
C	2" X VARYING LENGTH CEILING HUNG PENDANT LIGHT FIXTURE (TYPE C) MOUNTING HEIGHT - 8'-0" A.F.F.
D	2" X 8'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D)
D1	2" X 6'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D1)
D2	2" X 4'-0" RECESSED CEILING LIGHT FIXTURE (TYPE D2)
E	4" SQUARE RECESSED DOWNLIGHT FIXTURE (TYPE E)
F	RECESSED DIRECT LINEAR FIXTURE, VARYING LENGTHS (TYPE F)
F1	LINEAR DIRECT/INDIRECT PENDANT FIXTURE, VARYING LENGTHS (TYPE F1)
G	4'-0" RECESSED LINEAR LIGHT FIXTURE (TYPE G)
H	LINEAR WALL GRAZER LIGHT (TYPE H)
I	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE I) AT CAFE
J	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE J)
K	LED ADJUSTABLE SPOT LIGHT FIXTURE (TYPE K)
L	3'-0" DIAMETER RING SUSPENDED PENDANT LIGHT (TYPE L)
M	6'-0" LINEAR SURFACE WALL MOUNT LIGHT FIXTURE (TYPE M) MOUNTING HEIGHT - 8'-0" ABOVE LANDING TO 4' OF FIXTURE AT EGRESS STAIRS MOUNTING HEIGHT - 7'-4" ABOVE LANDING TO 4' OF FIXTURE AT E.M.R.
N	DECORATIVE ROUND SUSPENDED PENDANT LIGHT WITHIN VESTIBULE (TYPE N)
O	COVE LIGHTING AT COLUMN (TYPE O)
P	LED TAPE LIGHT AT DESK TRANSACTION TOP (TYPE P). SEE FLOOR PLAN FOR LOCATIONS.
P1	LED TAPE LIGHT AT COVE CEILING
Q	VERTICAL LINEAR FIXTURE INTEGRATED INTO WOOD SLAT WALL SYSTEM (TYPE Q)
R	SURFACE MOUNTED ROUND DECORATIVE FIXTURE (TYPE R)
S	SURFACE MOUNTED RING FIXTURE (TYPE S)
T	LINEAR WALL GRAZER LIGHT
U	DECORATIVE ROUND SUSPENDED PENDANT LIGHT (TYPE U)
V	48" DECORATIVE RING SUSPENDED PENDANT LIGHT (TYPE V)
W	1" LINEAR EXTERIOR COVE LIGHT (TYPE W)
[Symbol]	EXIT SIGN
[Symbol]	FA CEILING MOUNTED SPEAKER & STROBE
[Symbol]	FA CEILING MOUNTED STROBE
[Symbol]	SMOKE DETECTOR
[Symbol]	12" X 12" ACCESS DOOR
MS	MOTORIZED SHADES



No.	Date	Description
1	12.01.2023	Addendum No. 1
2	12.08.2023	Addendum No. 2
1	11.08.2023	For Public Bid

Revisions / Issues

DiGroupArchitecture
 ARCHITECTURE FOR CHANGE
 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
 2450 W. Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400
 Jeffrey D. Venezia, AIA
 NJ RA #A10927100

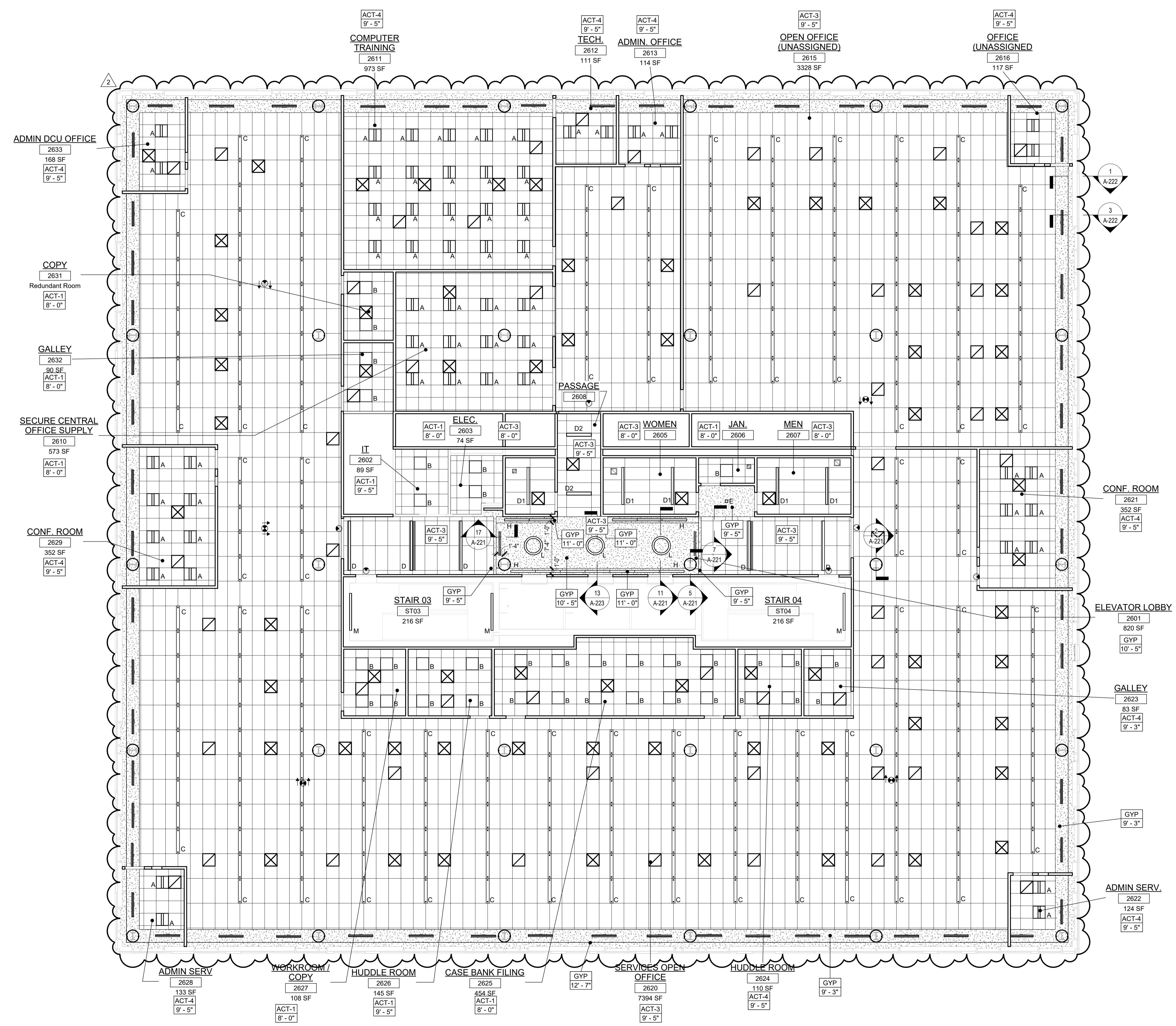
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX - BUILDING 2
 81 & 93 WEST GRAND STREET
 CITY OF ELIZABETH
 NEW JERSEY 07202

Drawing Information:
 Project No: 20.072
 Date: 11.08.2023
 Drawn By: JB / AV / PC
 Checked By: JM / SH

Sheet Name:
BUILDING NO.2 - LEVEL 6 - REFLECTED CEILING PLAN

Sheet No:
A2-216



1 BLDG 2 - LEVEL 6 - REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

DOOR SCHEDULE - BUILDING NO. 1

Table with columns: DOOR NO., ROOM NAME, DOOR DIMENSION, DOOR TYPE, FRAME MATERIAL, GLAZING, FIRE-RATING, HEAD, JAMB, SADDLE, HARDWARE SET, COMMENTS. Includes various rooms like STAIR, LOBBY, STORAGE, OFFICE, etc.

NOTE: 1. DOOR # 1419 (COPY ROOM DOOR) DELETED

DOOR SCHEDULE - BUILDING NO. 1

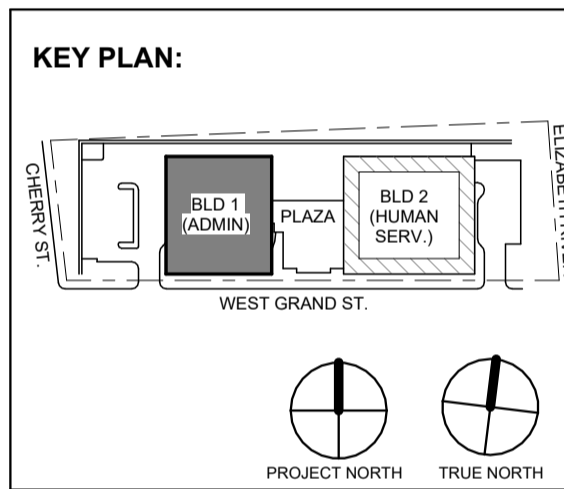
Table with columns: DOOR NO., ROOM NAME, DOOR DIMENSION, DOOR TYPE, FRAME MATERIAL, GLAZING, FIRE-RATING, HEAD, JAMB, SADDLE, HARDWARE SET, COMMENTS. Includes various rooms like CONFERENCE ROOM, FINANCE OFFICE, STORAGE, etc.

DOOR SCHEDULE COMMENTS:

- 1. PROVIDE ALUMINUM SADDLE TO SUIT OPENING FROM ZERO INTERNATIONAL OR APPROVED EQUAL.
2. PROVIDE MARBLE THRESHOLD TO SUIT OPENING...
3. PARTITION ASSEMBLY INCLUDES TILE FINISH ON ONE SIDE...
4. FINISH HARDWARE SET INCLUDES ACCESS CONTROL DEVICES...
5. FINISH HARDWARE SET INCLUDES DOOR CONTACT POSITION SWITCHES...
6. COORDINATE OPERATION REQUIREMENTS OF ACCESS CONTROL SYSTEM WITH FIRE ALARM ALARM SYSTEM...
7. FOR DOOR WIDTHS AND HEIGHT REFERENCE HEAD AND JAMB DETAILS H11/J1 THRU H15/J15 FOR ADDITIONAL INFORMATION...
8. SEE DRAWING A-702 FOR ALL SMOKE CURTAIN DETAILS...
9. INSIDE ALWAYS FREE...
10. DOOR LOCATED AT AN EXTERIOR OPENING...
11. INSIDE ALWAYS FREE IN EGRESS STAIR DURING EMERGENCY FIRE ALARM ACTIVATION...
12. MAIN ENTRY DOORS TO BE OPEN (FREE) DURING NORMAL BUSINESS HOURS...
13. PROVIDE COAT HOOKS FOR ALL PRIVATE TOILETS AND OFFICES.

DOOR SCHEDULE GENERAL NOTES:

- A. ALL SHADED DOORS ARE SHOWN FOR REFERENCE TO THE CORE & SHELL PACKAGE DRAWINGS...
B. REFER TO FLOOR PLANS ON A1-100 AND A2-100 SERIES DRAWINGS FOR DOOR LOCATIONS.
C. "WD" DENOTES "WOOD DOOR" DOOR OR FRAME...
D. "HM" DENOTES "HOLLOW METAL" DOOR OR FRAME...
E. "ALUM" DENOTES "ALUMINUM" DOOR OR FRAME...
F. "STL-OR" DENOTES "STEEL OVERHEAD DOOR" (COILING)...
G. STAIN AND SEAL ALL SOLID CORE WOOD DOORS (WD).
H. PAINT ALL HOLLOW METAL (HM) DOORS AND FRAMES.
I. PROVIDE A CLEAR ANODIC FINISH ON ALL ALUMINUM (ALUM) DOORS AND FRAMES.
J. PROVIDE TRANSITION STRIPS AS REQUIRED AT ALL FLOORING MATERIAL TRANSITIONS...
K. SEE SPECIFICATION SECTION 08800 FOR GLAZING TYPES AND ADDITIONAL INFORMATION.
L. SEE SPECIFICATION SECTION 08700 FOR FINISH HARDWARE REQUIREMENTS.
M. COORDINATE ALL FINISH HARDWARE WITH ACCESS CONTROL SYSTEM...
N. UNDERCUT ALL SOLID CORE WOOD DOORS (WD) 1" AS REQUIRED...
O. COORDINATE OPERATION OF ACCESS CONTROL SYSTEM WITH FIRE COMMAND CENTER.



INTERIOR GLAZING SCHEDULE table with columns: GLAZING TYPE, REQUIREMENTS, LOCATIONS. Includes rows for (I) GL-1, (I) GL-2, (I) GL-3, (I) GL-4.

EXTERIOR GLAZING SCHEDULE table with columns: GLAZING TYPE, REQUIREMENTS, LOCATIONS. Includes rows for GL-1, GL-2, GL-3, GL-4, GL-5, GL-6.

Client: UNION COUNTY IMPROVEMENT AUTHORITY
Project: UNION COUNTY GOVERNMENT COMPLEX
Drawing Information: Project No: 20.072, Date: 11/08/2023, Drawn By: JB / AV / PC, Checked By: JM / SH, Sheet Name: BUILDING NO. 1 - DOOR SCHEDULE AND NOTES, Sheet No: A-700

DOOR SCHEDULE - 2

Table with columns: DOOR NO., ROOM NAME, DIMENSION, DOOR, FRAME, GLAZIN, FIRE-RATING, HEAD, JAMB, SADDLE, HARDWARE SET, COMMENTS. Contains door schedule data for various rooms like OUTREACH & ADVOCACY OPEN OFFICE, GARAGE EGRESS, ELECTRIC ROOM, etc.

DOOR SCHEDULE - 2

Table with columns: DOOR NO., ROOM NAME, DIMENSION, DOOR, FRAME, GLAZIN, FIRE-RATING, HEAD, JAMB, SADDLE, HARDWARE SET, COMMENTS. Contains door schedule data for various rooms like MEN'S TOILET, PASSAGE, CLAIMS FRAUD OPEN OFFICE, etc.

DOOR SCHEDULE COMMENTS:

- 1. PROVIDE ALUMINUM SADDLE TO SUIT OPENING FROM ZERO INTERNATIONAL OR APPROVED EQUAL. ACCOMMODATE THICKNESS OF APPROVED WALL FINISH. SEE FINISH SCHEDULE AND LEGEND ON A800 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

DOOR SCHEDULE GENERAL NOTES:

- A. ALL SHADED DOORS ARE SHOWN FOR REFERENCE TO THE CORE & SHELL PACKAGE DRAWINGS. SEE CS-700 SERIES DRAWINGS FOR ADDITIONAL INFORMATION. OPENINGS WITH EXISTING FRAMES SHALL RECEIVE NEW DOORS WITH ASSOCIATED HARDWARE.

NOTE:

- 1. DOOR # 2228, 2413, 2427, 2446, 2510, 2528, 2541, 2630 (COPY ROOM DOOR) DELETED

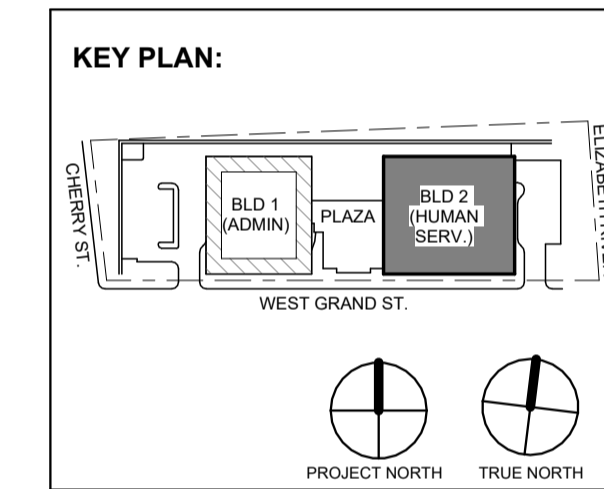


Table with columns: No., Date, Description. Contains revision history entries.

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T. 732.249.6242 2450 W. Hunting Park Ave • Philadelphia, PA 19122 • T. 215.634.3400

Jeffrey D. Venezia, AIA NJ RA # 00827100

UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX - BUILDING 2 81 & 93 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY 07202

Drawing Information: Project No: 20.072 Date: 11/08/2023 Drawn By: JB / AW / PC Checked By: JM / SH

Sheet Name: BUILDING NO. 2 - DOOR SCHEDULE AND NOTES

Sheet No: A-701

ABBREVIATIONS

Table of abbreviations for mechanical systems, including AC (Air Conditioning Unit), ACR (Air Curtain), AD (Access Door), AF (Airfoil), AFF (Above Finished Floor), AHU (Air Handling Unit), AL (Acoustical Lining), AMD (Air Measuring Device), AP (Access Panel), AS (Air Separator), ATC (Automatic Temperature Control), B (Boiler), BAS (Building Automation System), BBD (Boiler Blowdown), BD (Backdraft Damper), BF (Boiler Feed Unit), BFP (Back Flow Preventer), BFW (Boiler Feed Water), BSG (Blast Gate), BHP (Brake Horsepower), BI (Backward Incline), BOD (Bottom of Duct), BOP (Bottom of Pipe), BOS (Bottom of Steel), BPD (Bypass Air Damper), BTU (British Thermal Unit), BTUH (British Thermal Unit per Hour), BV (Butterfly Valve), C (Common or Connector), CL (Center Line), CBD (Continuous Boiler Blowdown), CC (Cooling Coil), CD (Ceiling Diffuser), CDR (Condenser Water Return), CDS (Condenser Water Supply), CF (Chemical Feed Unit), CFH (Cubic Feet per Hour), CFM (Cubic Feet per Minute), CH (Chiller), CHEM (Chemical), CHWR (Chilled Water Return), CHWS (Chilled Water Supply), CI (Cast Iron), CIP (Clean in Place), COMP (Compressor), CON (Concentric), COND (Condensate), CP (Condensate Pump), CRU (Computer Room), CS (Air Conditioning Unit), CT (Cooling Tower), CU (Condensing Unit), CUN (Cabinet Unit Heater), CV (Constant Volume / Control Valve), CWB (Constant Volume Box), CW (Cold Water), DA (Direct Acting), DB (Dry Bulb), DC (Dust Collector), DDC (Direct Digital Controls), DEH (Dehumidifier), DIA (Diameter), DIFF (Differential), DISCH (Discharge), DL (Door Louver), DN (Down), DR (Drain), DWDI (Double Width Double Inlet), DX (Direct Expansion), DL (Drilling and Looping), (E) (Existing), EAT (Entering Air Temperature), EBB (Electric Baseboard Radiation), EC (Evaporative Condenser), ECC (Eccentric), EDH (Electric Duct Heater), EDR (Equivalent Direct Radiation), EF (Exhaust Fan), EG (Exhaust Grille), EGE (Emergency Generator Exhaust), EH (Electric Heater), EJ (Expansion Joint), EMCS (Energy Monitoring Control System), EP (Electric-Pneumatic), ER (Exhaust Register), ERU (Energy Recovery Unit), ES (End Switch), ESP (External Static Pressure), ET (Expansion Tank), EUH (Electric Unit Heater), EWT (Entering Water Temperature), EXH (Exhaust), (F) (Future), °F (Degrees Fahrenheit), F (Filter), FC (Forward Curved or Flex Conn.), FOU (Fan Coil Unit), FCV (Flow Control Valve), FD (Floor Drain or Fire Damper), FG (Fiberglass), FH (Fume Hood), FHE (Fume Hood Exhaust), FLA (Full Load Amps), FM (Flow Meter), FOB (Flat on Bottom), FOR (Fuel Oil Return), FOS (Fuel Oil Supply), FOT (Flat on Top), FOV (Fuel Oil Vent), FPM (Feet per Minute), FPS (Feet per Second), FRP (Fiberglass Reinforced Pipe), FS (Flow Switch), FT (Feet or Flash Tank), FTB (Fan Terminal Box), FTWG (Feet Water Gauge), F&T (Float & Thermostatic Trap), FTV (Finned Tube Radiation), FV (Face Velocity), FZ (Freeze/Stat), GPH (Gallons per Hour), GPM (Gallons per Minute), GR (Grille or Glycol Return), GRAV (Gravity), GSY (Glycol Supply), GV (Gate Valve), H (Humidistat), HC (Heating Coil), HD (Head), HE (Heat Exchanger), HEP (Heat Exchanger Package), HEPA (High Efficiency Particulate Arrestance Filter), HL (High Limit), HOA (Hand-Off Automatic Selector Switch), HO (Hand-Off Selector Switch with Pilot Light), HP (Horsepower or Heat Pump), HPC (High Pressure Condensate), HPD (High Pressure Drift), HPS (Heat Pump Supply), HPT (Heat Pump Return), HRU (Heat Recovery Unit), HUM (Humidity or Humidifier), HV (Heating & Ventilating Unit), HW (Hot Water), HWR (Hot Water Return), HWS (Hot Water Supply), HZ (HERTZ), ID (Inside Diameter), IL (Interlock), IN (Inch), INWG (Inches Water Gauge), KE (Kitchen Hood Exhaust), KW (Kilowatt), LAT (Leaving Air Temperature), LBHR (Pounds per Hour), LD (Linear Diffuser), LF (Linear Feet), LH (Latent Heat), LPC (Low Pressure Condensate), LPD (Low Pressure Drift), LPS (Low Pressure Steam), LR (Linear Return), LRA (Locked Rotor Amps), LVR (Louver), LWT (Leaving Water Temperature), M (Main Air), MAU (Makeup Air Unit), MB (Mining Box), MBH (1000 BTU per Hour), MCC (Motor Control Center), MHP (Motor Horsepower), MOD (Motor Operated Damper), MU (Make Up Water), MVD (Manual Volume Damper), (N) (New), NC (Normally Closed), NG (Natural Gas), NO (Normally Open), NTS (Not to Scale), OA (Outside Air), OAD (Outside Air Damper), OAI (Outside Air Intake), OBD (Opposed Blade Damper), OCC (Occupied), ODD (Outside Diameter), OED (Open End Duct), OP (Orifice Plate), OV (Outlet Velocity), P (Pump), PBD (Parallel Blade Damper), PC (Pumped Condensate - PSIG), PD (Pressure Drop), PERF (Perforated), PF (Plate and Frame Heat Exchanger), PH (Phase), PHC (Preheat Coil), PNEU (Pneumatic), PRV (Pressure Reducing Valve), PSF (Pound per Square Foot), PSIA (Pounds per Square Inch Absolute), PSIG (Pounds per Square Inch Gauge), PPS (Pressure Transmitter), PVC (Polyvinyl Chloride), (R) (Removed), RA (Return Air or Reverse Acting), RAD (Radiation), RCP (Radiant Ceiling Panel), RD (Return Air Damper), REFR (Refrigerant), REL (Relief Air/Relocate), RE (Relief Air/Relocate), RELD (Relief Damper), RF (Return Air Fan), RG (Return Air Grille), RH (Relative Humidity), RHC (Reheat Coil), RHG (Refrigerant Hot Gas), RHR (Reheat Hot Water Return), RHS (Reheat Hot Water Supply), RL (Refrigerant Liquid), RO (Roof Opening), RPM (Revolutions per Minute), RPZ (Reduced Pressure Zone Device), RR (Return Air Register), RS (Refrigerant Suction), RTU (Rooftop Unit), RV (Refrigerant Vent), S (Steam - PSIG), SA (Supply Air), SDA (Smoke Damper or Supply Diffuser), SD (Sound Attenuator), SDF (Smoke Exhaust Fan), SF (Supply Air Fan), SG (Supply Air Grille), SH (Sensible Heat), SMD (Smoke Detector), SP (Static Pressure), SQ FT (Square Feet), SR (Supply Air Register), SRD (Safety Relief Valve Discharge), SRV (Safety Relief Valve), STM (Steam), ST STL (Stainless Steel), SUCT (Suction), SW (Soft Water), SWSI (Single Width Single Inlet), S/R (Supply and Return), T (Thermostat), TAB (Testing and Balancing), TDU (Transfer Air Duct), TF (Terminal Air Filter), TE (Toilet Exhaust), TEMP (Temperature), TH (Total Heat), THERM (Thermometer), TOD (Top of Duct), TOP (Top of Pipe), TOS (Top of Steel), TP (Total Pressure), TSP (Total Static Pressure), TR (Temperature Transmitter), TT (Undercut), UH (Unit Heater), UNO (Unless Noted Otherwise), UNOCC (Unoccupied), UV (Unit Ventilator), V (Vent or Volts), VAC (Vacuum), VAV (Variable Air Volume), VB (Vacuum Breaker), VEL (Velocity), VENT (Ventilating Fan), VFD (Variable Frequency Drive), VI (Vibration Isolator), VIB (Vibration), VIV (Variable Inlet Vanes), VP (Vacuum Pump), VTR (Vent Through Roof), WB (Wet Bulb), WC (Water Column), WG (Water Gauge), WMS (Wire Mesh Screen), WP (Waterproof), XP (Explosion Proof), FS (Flow Switch), FT (Feet or Flash Tank), FTB (Fan Terminal Box), FTWG (Feet Water Gauge), F&T (Float & Thermostatic Trap), FTV (Finned Tube Radiation), FV (Face Velocity), FZ (Freeze/Stat), GPH (Gallons per Hour), GPM (Gallons per Minute), GR (Grille or Glycol Return), GRAV (Gravity), GSY (Glycol Supply), GV (Gate Valve), H (Humidistat), HC (Heating Coil), HD (Head), HE (Heat Exchanger), HEP (Heat Exchanger Package), HEPA (High Efficiency Particulate Arrestance Filter), HL (High Limit), HOA (Hand-Off Automatic Selector Switch), HO (Hand-Off Selector Switch with Pilot Light), HP (Horsepower or Heat Pump), HPC (High Pressure Condensate), HPD (High Pressure Drift), HPS (Heat Pump Supply), HPT (Heat Pump Return), HRU (Heat Recovery Unit), HUM (Humidity or Humidifier), HV (Heating & Ventilating Unit), HW (Hot Water), HWR (Hot Water Return), HWS (Hot Water Supply), HZ (HERTZ), ID (Inside Diameter), IL (Interlock), IN (Inch), INWG (Inches Water Gauge), KE (Kitchen Hood Exhaust), KW (Kilowatt), LAT (Leaving Air Temperature), LBHR (Pounds per Hour), LD (Linear Diffuser), LF (Linear Feet), LH (Latent Heat), LPC (Low Pressure Condensate), LPD (Low Pressure Drift), LPS (Low Pressure Steam), LR (Linear Return), LRA (Locked Rotor Amps), LVR (Louver), LWT (Leaving Water Temperature), M (Main Air), MAU (Makeup Air Unit), MB (Mining Box), MBH (1000 BTU per Hour), MCC (Motor Control Center), MHP (Motor Horsepower), MOD (Motor Operated Damper), MU (Make Up Water), MVD (Manual Volume Damper), (N) (New), NC (Normally Closed), NG (Natural Gas), NO (Normally Open), NTS (Not to Scale), OA (Outside Air), OAD (Outside Air Damper), OAI (Outside Air Intake), OBD (Opposed Blade Damper), OCC (Occupied), ODD (Outside Diameter), OED (Open End Duct), OP (Orifice Plate), OV (Outlet Velocity), P (Pump), PBD (Parallel Blade Damper), PC (Pumped Condensate - PSIG), PD (Pressure Drop), PERF (Perforated), PF (Plate and Frame Heat Exchanger), PH (Phase), PHC (Preheat Coil), PNEU (Pneumatic), PRV (Pressure Reducing Valve), PSF (Pound per Square Foot), PSIA (Pounds per Square Inch Absolute), PSIG (Pounds per Square Inch Gauge), PPS (Pressure Transmitter), PVC (Polyvinyl Chloride), (R) (Removed), RA (Return Air or Reverse Acting), RAD (Radiation), RCP (Radiant Ceiling Panel), RD (Return Air Damper), REFR (Refrigerant), REL (Relief Air/Relocate), RE (Relief Air/Relocate), RELD (Relief Damper), RF (Return Air Fan), RG (Return Air Grille), RH (Relative Humidity), RHC (Reheat Coil), RHG (Refrigerant Hot Gas), RHR (Reheat Hot Water Return), RHS (Reheat Hot Water Supply), RL (Refrigerant Liquid), RO (Roof Opening), RPM (Revolutions per Minute), RPZ (Reduced Pressure Zone Device), RR (Return Air Register), RS (Refrigerant Suction), RTU (Rooftop Unit), RV (Refrigerant Vent), S (Steam - PSIG), SA (Supply Air), SDA (Smoke Damper or Supply Diffuser), SD (Sound Attenuator), SDF (Smoke Exhaust Fan), SF (Supply Air Fan), SG (Supply Air Grille), SH (Sensible Heat), SMD (Smoke Detector), SP (Static Pressure), SQ FT (Square Feet), SR (Supply Air Register), SRD (Safety Relief Valve Discharge), SRV (Safety Relief Valve), STM (Steam), ST STL (Stainless Steel), SUCT (Suction), SW (Soft Water), SWSI (Single Width Single Inlet), S/R (Supply and Return), T (Thermostat), TAB (Testing and Balancing), TDU (Transfer Air Duct), TF (Terminal Air Filter), TE (Toilet Exhaust), TEMP (Temperature), TH (Total Heat), THERM (Thermometer), TOD (Top of Duct), TOP (Top of Pipe), TOS (Top of Steel), TP (Total Pressure), TSP (Total Static Pressure), TR (Temperature Transmitter), TT (Undercut), UH (Unit Heater), UNO (Unless Noted Otherwise), UNOCC (Unoccupied), UV (Unit Ventilator), V (Vent or Volts), VAC (Vacuum), VAV (Variable Air Volume), VB (Vacuum Breaker), VEL (Velocity), VENT (Ventilating Fan), VFD (Variable Frequency Drive), VI (Vibration Isolator), VIB (Vibration), VIV (Variable Inlet Vanes), VP (Vacuum Pump), VTR (Vent Through Roof), WB (Wet Bulb), WC (Water Column), WG (Water Gauge), WMS (Wire Mesh Screen), WP (Waterproof), XP (Explosion Proof)

PIPING SYMBOLS

Table of piping symbols including Manual Balancing Valve with Pressure Taps, Gate Valve, Globe Valve, Butterfly Valve, Plug Valve, Vacuum Breaker, Check Valve, Angle Shutoff Valve, Angle Balancing/Shutoff Valve, Triple Duty Valve, Combination Balancing/Shutoff Valve with Pressure Taps, Pressure Reducing Valve, Safety/Relief Valve - Plan and Elevation, Y-Strainer with Plug, Y-Strainer with Drain Valve, Pressure Gauge with Gauge Cock and Bourdon Tube, Thermometer, Pressure/Temperature Test Fitting, Flow Meter, Tee Connection - Straight, Down, and Up, Union, End Cap, Blind Flange, Pipe Bellows, Pipe Anchor, Pipe Guide (Sliding), Pipe Guide (Moment), Electrically Heat Traced Piping, Air Vent - (Manual), Automatic Air Vent, Concentric Reducer, Eccentric Reducer, Pitch of Pipe, Rise (R) Drop (D), Expansion Loop and Size

LINE DESIGNATIONS

Table of line designations for various piping types: CHWS (Chilled Water Supply), CHWR (Chilled Water Return), CWS (Condenser Water Supply), CWR (Condenser Water Return), HWS (Hot Water Supply), HWR (Hot Water Return), RHS (Reheat Hot Water Supply), RHR (Reheat Hot Water Return), S-15 (Steam - PSIG), HPS (Heat Pump Supply), HPR (Heat Pump Return), MPS (Medium Pressure Steam), LPS (Low Pressure Steam), HPC (High Pressure Condensate), MPC (Medium Pressure Condensate), LPC (Low Pressure Condensate), PC-15 (Pumped Condensate - PSIG), CS-15 (Clean Steam - PSIG), GS (Glycol Supply), GR (Glycol Return), FOS (Fuel Oil Supply), FOR (Fuel Oil Return), FOV (Fuel Oil Vent), EGE (Emergency Generator Exhaust), G (Natural Gas), C (Cool Condensate Drain), CF (Chemical Feed), MU (Make Water), BFW (Boiler Feed Water), BBD (Boiler Blowdown), CBD (Continuous Boiler Blowdown), CSL (Common Safety Line), RV (Refrigerant Vent), RLL (Refrigerant Liquid), RS (Refrigerant Suction)

NOTES

THE FOLLOWING NOTES APPLY TO ALL "M" MECHANICAL DRAWINGS: 1. ALL WORK SHALL FOLLOW THE INTERNATIONAL MECHANICAL CODE 2021, NJ EDITION. 2. ALL WORK CONTAINED WITHIN THE MECHANICAL DRAWINGS AND SPECIFICATIONS IS THE RESPONSIBILITY OF THE SINGLE PRIME CONTRACTOR UNLESS OTHERWISE NOTED. 3. NOT ALL SYMBOLS, ABBREVIATIONS AND LINE DESIGNATIONS ARE NECESSARILY USED ON THIS PROJECT. 4. ALL HVAC EQUIPMENT, DUCTWORK, PIPING, SUPPORTS AND ACCESSORY LOCATIONS AND ROUTING SHALL BE COORDINATED WITH ALL OTHER TRADES AND VERIFIED PRIOR TO INSTALLATION TO PROVIDE REQUIRED CLEARANCES FOR ALL OTHER SYSTEMS. 5. SUPPLY, RETURN AND EXHAUST AIR OPENING LOCATIONS AND SIZES FOR ROOF MOUNTED MECHANICAL EQUIPMENT ARE SHOWN FOR DUCTWORK ROUTING ONLY. THE MECHANICAL CONTRACTOR SHALL VERIFY THE ACTUAL SIZES OF DUCT CONNECTIONS AND THE REQUIRED ROOF OPENING SIZES FOR THE ROOF MOUNTED EQUIPMENT AND COORDINATE THE FINAL LOCATION OF ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR. 6. THE CONTRACTOR PROVIDING MECHANICAL TRADE WORK SHALL INSTALL ALL ROOF MOUNTED MECHANICAL EQUIPMENT CURBS AND FLASHING AND COORDINATE WITH THE CONTRACTOR PROVIDING GENERAL TRADES PRIOR TO THE APPLICATION OF THE BUILDING ROOFING. THE CONTRACTOR PROVIDING MECHANICAL TRADE WORK SHALL ALSO INSTALL ALL NECESSARY ROOF CURB COUNTER-FLASHING TO ACHIEVE A WATERTIGHT ROOFING SEAL. 7. DUCTWORK MAINS AND BRANCHES ARE SHOWN DIAGRAMMATICALLY AND FOR DESIGN CLARITY AND AT THE ROOM LEVEL ROUTING AND ARRANGEMENT IS SHOWN TO MINIMIZE NOISE CARRYOVER FROM MECHANICAL EQUIPMENT AND ADJOINING SPACES. CONTRACTOR MAY PROPOSE REROUTING, OFFSETS, RISERS AND DROPS AS NECESSARY TO CLEAR INSTALLED TRUSSES, JOISTS AND OTHER INTERFERENCES. FINAL DUCTWORK LAYOUT WILL BE APPROVED IN REQUIRED DUCTWORK SHOP DRAWING SUBMITTAL REVIEW PRIOR TO INSTALLATION. DEVIATIONS FROM APPROVED DUCTWORK SHOP DRAWING TO SUIT FIELD CONDITIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. 8. ALL PIPING/DUCTWORK/CONTROLS PENETRATING FIRE RATED PARTITIONS, WALLS AND CEILINGS SHALL BE SEALED ON BOTH SIDES USING AN APPROVED, UL LISTED FIRE SEALANT TO MATCH WALL FIRE RATING. 9. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR IN REGARDS TO THE DISCONNECT AND RECONNECT OF ANY EQUIPMENT BEING FURNISHED AND INSTALLED AS INDICATED ON THE CONTRACT DOCUMENTS. 10. ELECTRICAL COORDINATION: CONTRACTOR PROVIDING MECHANICAL TRADE WORK SHALL COORDINATE VOLTAGES FOR EACH PIECE OF EQUIPMENT BEFORE PURCHASING EQUIPMENT WITH CONTRACTOR PROVIDING ELECTRICAL TRADE WORK. 11. CONTRACTOR COMPLETING CONTROLS INSTALLATION IS RESPONSIBLE FOR ALL LOW VOLTAGE (24V) CONTROL WIRING AND SHALL COORDINATE REQUIREMENTS FOR 120V/1PH/60Hz FOR POWER FEEDS TO CONTROLLERS (IF REQUIRED) WITH CONTRACTOR COMPLETING ELECTRICAL WORK. 12. HVAC TESTING & BALANCING (AIR & WATER) IS A PART OF THIS CONTRACT FOR ALL NEW EQUIPMENT INSTALLED UNDER THIS PROJECT. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED TEST & BALANCE REPORTS, REFER TO PROJECT BOOK SPECIFICATIONS FOR DETAILS. 13. THE CONTRACTOR IS TO REPLACE ALL AIR FILTERS AFTER COMPLETION OF CONSTRUCTION AND INITIAL TESTING OF HVAC SYSTEMS WITH NEW CLEAN FILTERS. 14. CONTRACTOR SHALL PROVIDE FLEXIBLE CONNECTIONS AT ALL DUCT CONNECTIONS TO EQUIPMENT, IF DUCT CONNECTION TO EQUIPMENT CANNOT BE MADE WITHOUT A HARD CONNECTION (E.G. MIXING BOX/FILTER RACK ASSEMBLY), CONTRACTOR SHALL PROVIDE FLEX CONNECTIONS FOR ALL DUCT CONNECTING WITH A HARD CONNECTION TO EQUIPMENT. 15. ALL NECESSARY STAGING AND MATERIAL STORAGE AREAS SHALL BE AS DIRECTED AND APPROVED BY THE OWNER. 16. ALL MEANS OF EGRESS MUST BE KEPT FREE AND CLEAR OF ALL MATERIAL. 17. VERIFY ELEVATIONS AND MEASUREMENTS SHOWN ON CONTRACT DRAWINGS, ALL DIMENSIONS AND ELEVATIONS FOR NEW EQUIPMENT, PIPING AND APPARATUS ARE APPROXIMATE AND ARE ONLY FOR REFERENCE. COORDINATE WITH ALL OTHER TRADES AND SUBMIT SHOP DRAWINGS SHOWING ALL DIMENSIONS AND ELEVATIONS. 18. ALL INSTRUMENTS SHALL BE LOCATED TO PROVIDE EASY ACCESS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 19. PROVIDE VALVED DRAINS ON ALL WATER PIPING SYSTEM LOW POINTS AND AS REQUIRED ON NEW EQUIPMENT. PROVIDE AIR VENTS AT PIPING SYSTEM HIGH POINTS AS REQUIRED FOR RELEASING AIR DURING STARTUP. 20. NO PIPING SMALLER THAN 3/4" EXCEPT AS NOTED. 21. PROVIDE WIRING AND RACEWAYS RELATED TO CONTROL OF MECHANICAL EQUIPMENT. RACEWAYS TO BE MINIMUM 3/4". 22. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED CALCULATIONS (SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF NEW JERSEY) AND INSTALLATION INFORMATION TO SHOW COMPLIANCE WITH SEISMIC AND WIND FORCES IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE 2021, NJ EDITION. INFORMATION SHALL BE MADE AVAILABLE TO ENGINEER FOR REVIEW AND ALSO, MADE AVAILABLE UPON REQUEST FOR SUBMISSION TO CODE ENFORCEMENT. PROVIDE ALL SUPPORT SYSTEMS, SUPPLEMENTAL STEEL, ANCHORS, PIPE HANGERS AND ENGINEERING DOCUMENTATION NECESSARY TO PROVIDE A COMPLETE CODE COMPLIANT SYSTEM.

DUCTWORK SYMBOLS

Table of ductwork symbols including Supply/Outside Air Duct, Return/Exhaust Air Duct, 45° Entry Takeoff, Rectangular to Rectangular, 90° Takeoff, Rectangular to Round, Straight, 90° Takeoff, Rectangular to Round, Bellmouth w/ Manual Volume Damper, 90° Takeoff, Round to Round, Straight, 90° Conical Takeoff, Round to Round, 45° Conical Lateral, Round to Round, 45° Lateral, Round to Round, 45° Wye, Round to Round, End of Duct (Capped), Sidewall Air Terminal WVD (Arrows Denote Throw Direction), Linear Diffuser, Fire Damper - Vertical Position, Combination Fire/Smoke Damper, Smoke Damper, Flexible Connection, Manual Volume Damper, Motor Operated Damper, Smoke Detector (Duct-Mounted), Return/Exhaust Air Designation, Supply Air Designation

CONTROLS

Table of control symbols: THERMOSTAT - DUCT MOUNTED, THERMOSTAT - WALL MOUNTED, HUMIDISTAT - DUCT MOUNTED, HUMIDISTAT - WALL MOUNTED, FREEZE/STAT (LOW TEMPERATURE DETECTOR), STATIC PRESSURE SENSOR - DUCT MOUNTED, SPACE STATIC PRESSURE SENSOR, AUTOMATIC CONTROL VALVE (2-WAY), AUTOMATIC CONTROL VALVE (3-WAY), DIFFERENTIAL PRESSURE SENSOR, FLOW SWITCH, CO2 SENSOR, CO DETECTOR, NO2 DETECTOR

MISC. DWG. SYMBOLS

Table of miscellaneous drawing symbols: POINT OF CONNECTION, POINT OF DISCONNECT, POINT OF CONNECTION FOR FUTURE WORK, EQUIPMENT SYMBOL, EQUIPMENT NUMBER OR FLOW (GPM, CFM, ETC.), DETAIL NUMBER, DETAIL DRAWING NUMBER, SECTION LETTER, SECTION DRAWING NUMBER, PLAN NUMBER, PLAN DRAWING NUMBER, KEYED NEW WORK NOTE, VAV TAG, FLOOR DESIGNATION, BUILDING DESIGNATION

SCOPE OF WORK INFORMATION

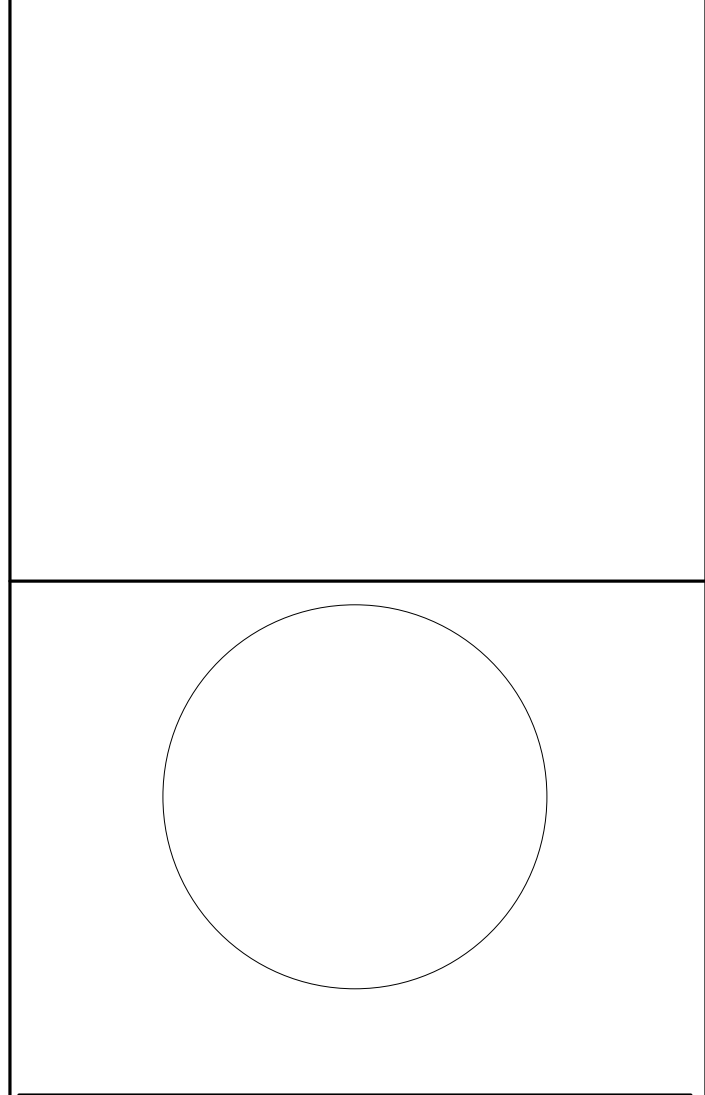
SCOPE OF WORK INFORMATION 1. BASIC PROJECT SCOPE: A. ALL WORK CONTAINED WITHIN THE DRAWINGS AND SPECIFICATIONS IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR, UNLESS OTHERWISE NOTED. REFER TO INDIVIDUAL DRAWING SHEETS AND SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. B. CONTRACTOR SHALL PROVIDE SUPPORT OF THE COMMISSIONING AGENT DURING THE CONSTRUCTION PROCESS INCLUSIVE OF MEETING ATTENDANCE, START-UP, ASSISTANCE AND SUBMISSION OF COMMISSIONING DOCUMENTATION AS REQUIRED BY THE COMMISSIONING AGENT. C. CONTRACTOR SHALL PROVIDE SPECIAL INSPECTION SUPPORT FOR THE SPECIAL INSPECTION OF THE STARWELL PRESSURIZATION SYSTEMS AS IDENTIFIED ON THE DRAWINGS AND THE DIVISION 23 TESTING, ADJUSTING AND BALANCING SPECIFICATION.

APPLICABLE CODES

Table of applicable codes: DISCIPLINE, ADOPTED CODE, YEAR AMENDED. BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) - NJ EDITION, 2021. MECHANICAL CODE: INTERNATIONAL MECHANICAL CODE (IMC) - NJ EDITION, 2021. ELECTRICAL CODE: NATIONAL ELECTRICAL CODE (NFPA 70) (NEC), 2020. ENERGY CODE: ASHRAE 90.1, 2019. ELEVATOR CODE: AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), -. FUEL GAS CODE: INTERNATIONAL FUEL GAS CODE (IFGC) - NJ EDITION, 2021. PLUMBING CODE: NATIONAL STANDARD PLUMBING CODE - NJ EDITION, 2021.

DUCTWORK SYMBOLS

Table of ductwork symbols including Supply/Outside Air Duct, Return/Exhaust Air Duct, 45° Entry Takeoff, Rectangular to Rectangular, 90° Takeoff, Rectangular to Round, Straight, 90° Takeoff, Rectangular to Round, Bellmouth w/ Manual Volume Damper, 90° Takeoff, Round to Round, Straight, 90° Conical Takeoff, Round to Round, 45° Conical Lateral, Round to Round, 45° Lateral, Round to Round, 45° Wye, Round to Round, End of Duct (Capped), Sidewall Air Terminal WVD (Arrows Denote Throw Direction), Linear Diffuser, Fire Damper - Vertical Position, Combination Fire/Smoke Damper, Smoke Damper, Flexible Connection, Manual Volume Damper, Motor Operated Damper, Smoke Detector (Duct-Mounted), Return/Exhaust Air Designation, Supply Air Designation



JOHN CHRIS MORRIS III, P.E. 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W. Hunting Park Ave. • Philadelphia, PA 19122 • T: 215.634.3400

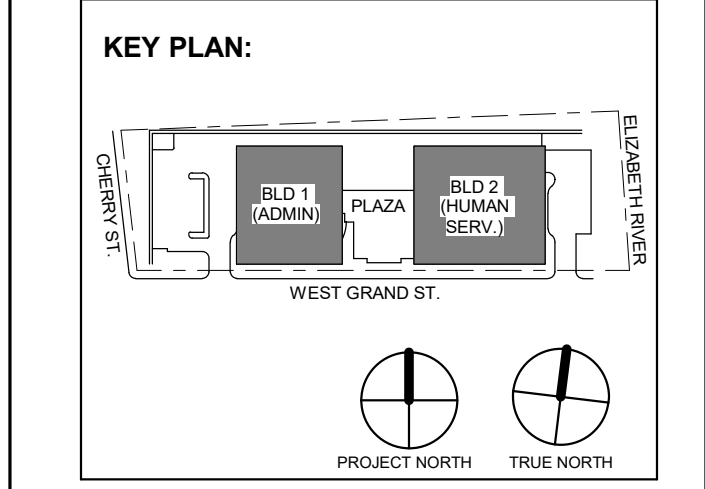


Table with 2 columns: No., Date, Description. Revisions / Issues

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JB/AV/PC Checked By: JM/SH

MECHANICAL LEAD SHEET

Sheet No: M-001

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

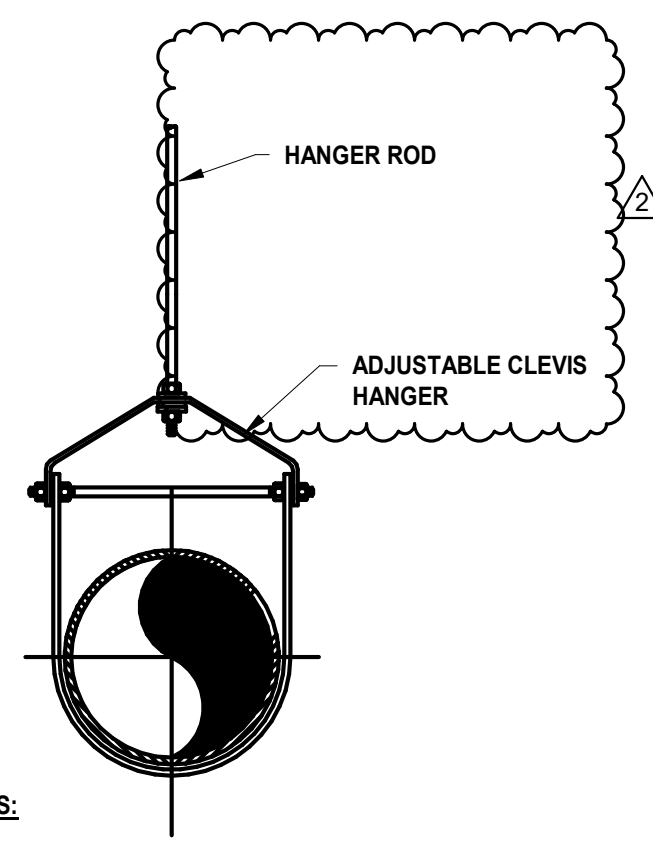
Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JB/AV/PC Checked By: JM/SH

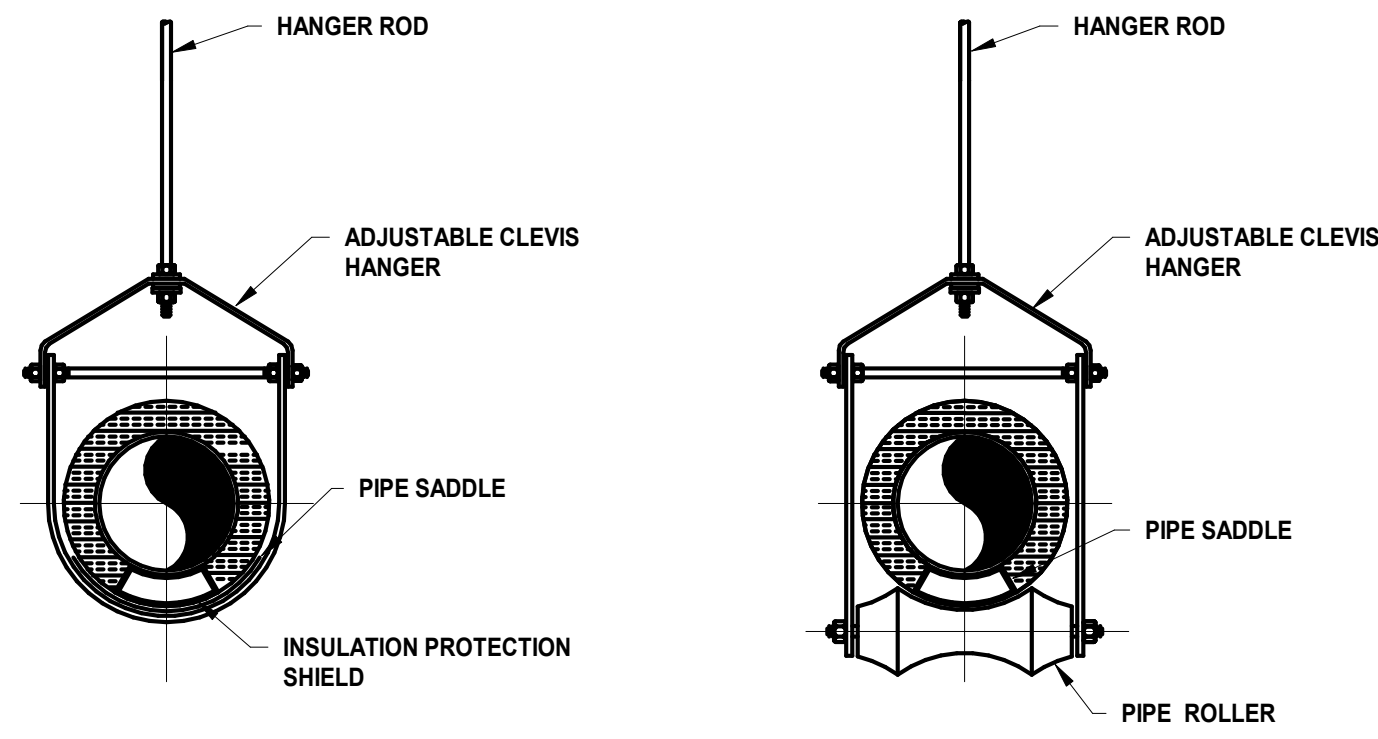
MECHANICAL LEAD SHEET

Sheet No: M-001



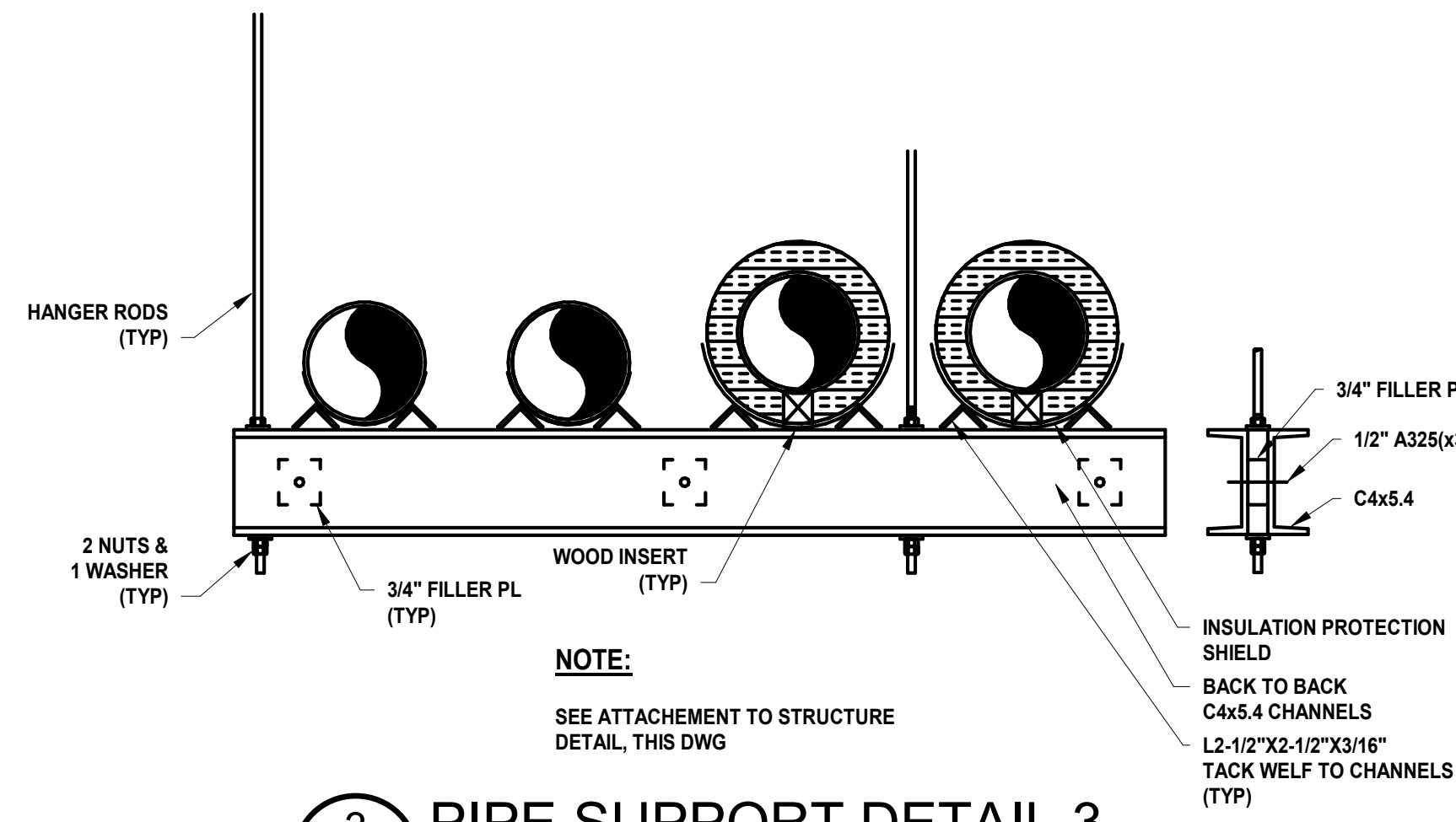
- NOTES:
1. SIZE CLEVIS TO ADEQUATELY SUPPORT LOAD
 2. SPRING HANGER. SEE SPECIFICATION FOR USE.

1 PIPE SUPPORT DETAIL
M-003 SCALE: N.T.S.



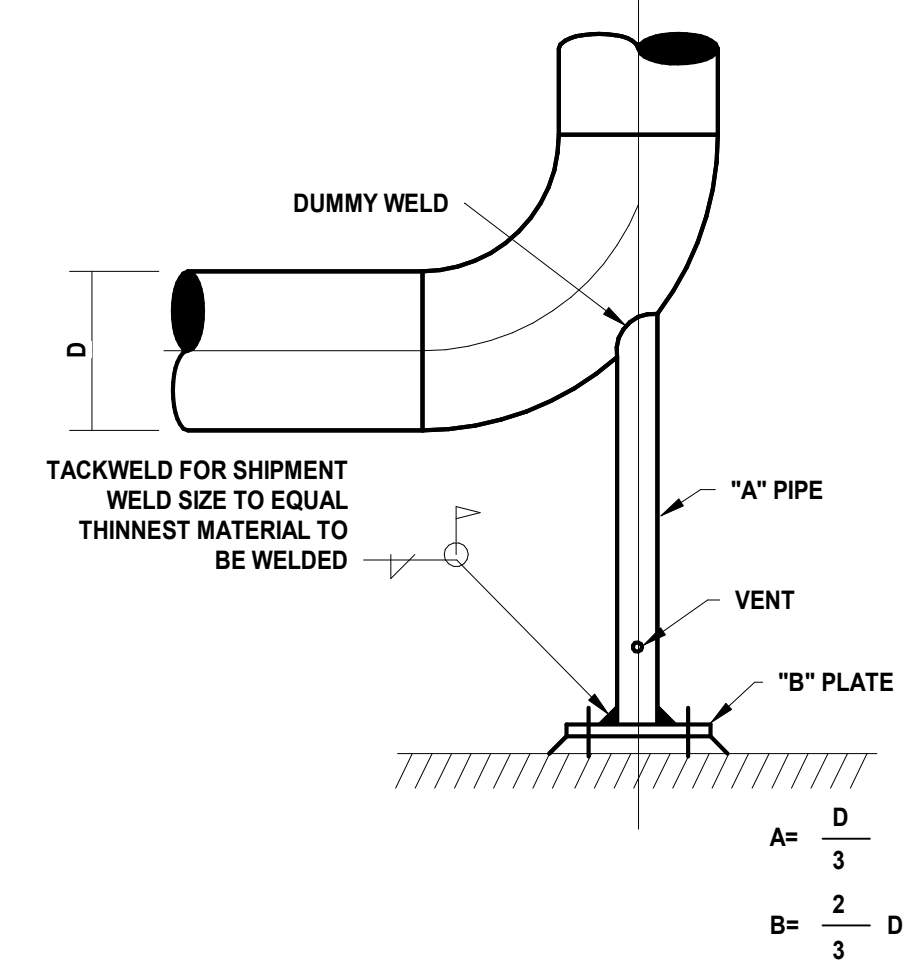
- NOTES:
1. SIZE CLEVIS AND ROLLER TO ADEQUATELY SUPPORT LOAD.
 2. SIZE CLEVIS AND ROLLER TO FIT PIPE AND INSULATION THICKNESS.
 3. USE INSULATION SHIELDS FOR COLD LINES.
 4. CLEVIS FOR ALL PIPING SYSTEMS UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS
 5. PIPE ROLLER FOR ONLY THOSE SYSTEMS AS NOTED IN THE SPECIFICATIONS.

2 PIPE SUPPORT DETAIL 2
M-003 SCALE: N.T.S.

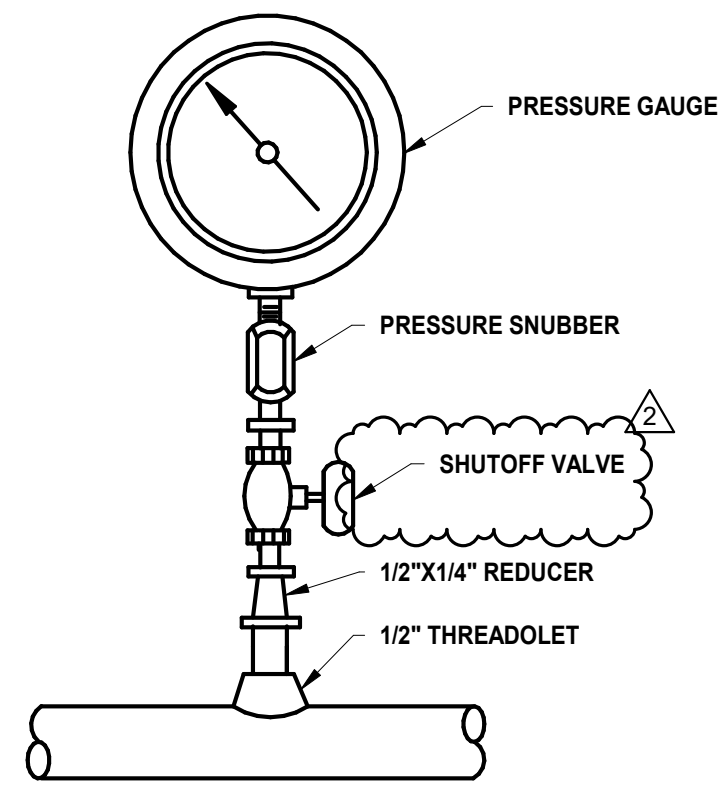


- NOTE:
- SEE ATTACHMENT TO STRUCTURE DETAIL, THIS DWG

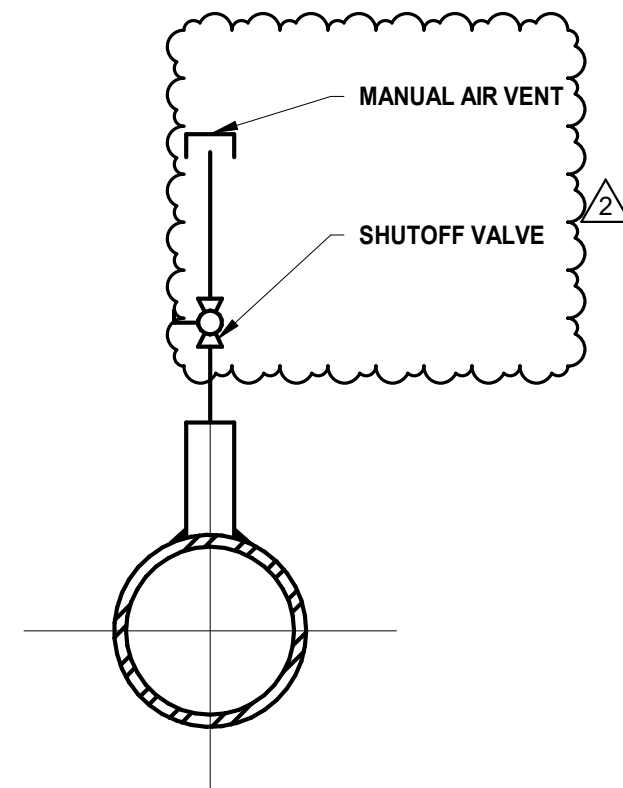
3 PIPE SUPPORT DETAIL 3
M-003 SCALE: N.T.S.



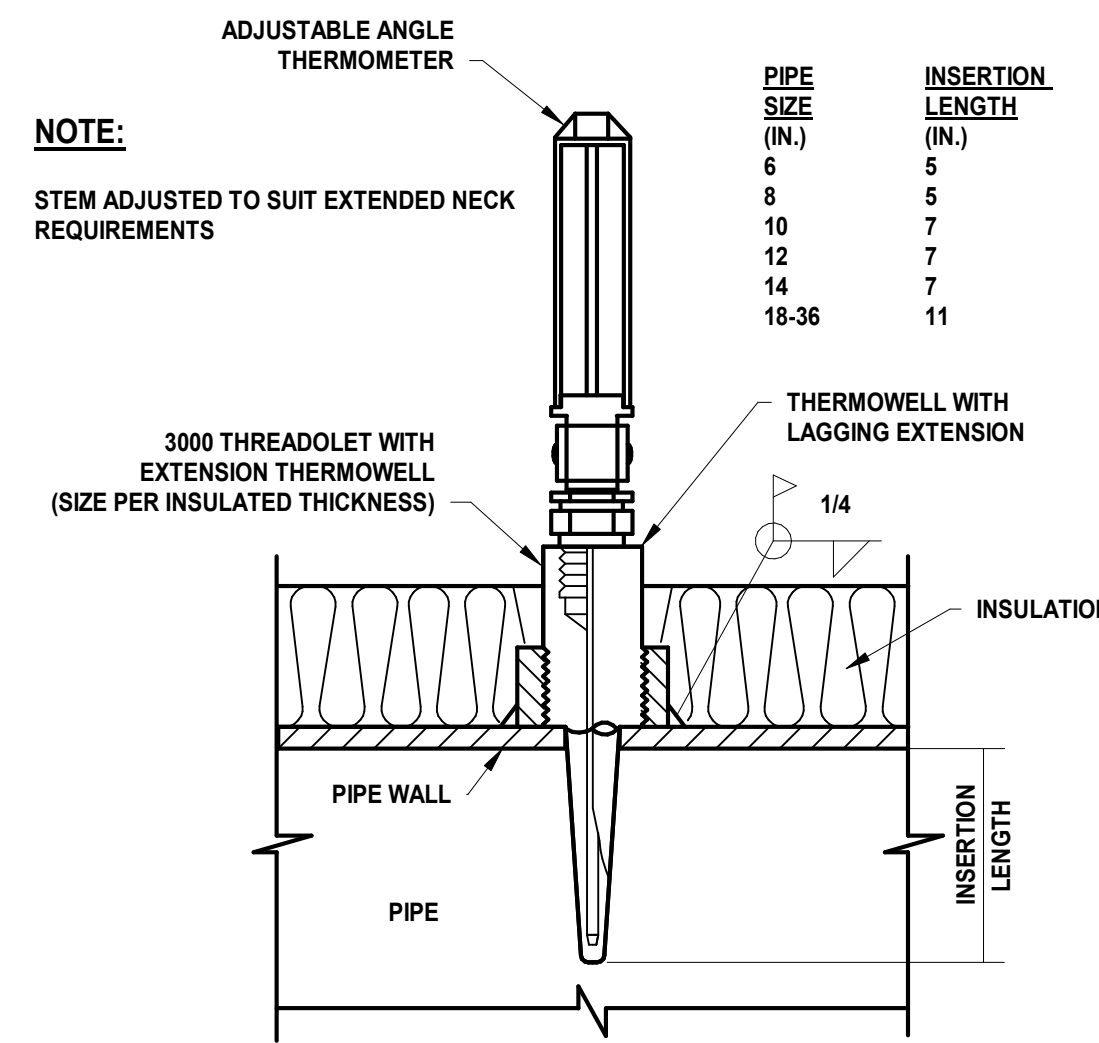
4 PIPE SUPPORT DETAIL 4
M-003 SCALE: N.T.S.



5 PRESSURE GAUGE DETAILS
M-003 SCALE: N.T.S.

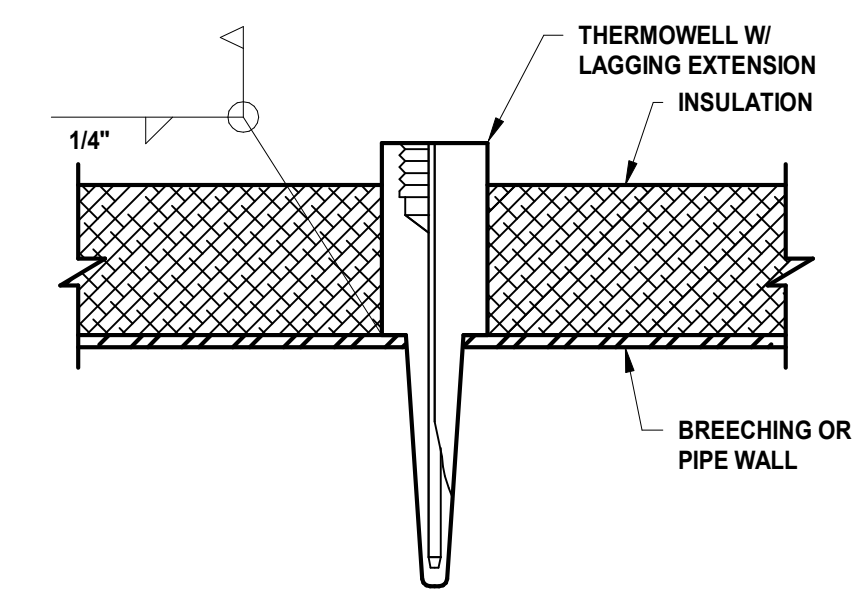


6 MANUAL AIR VENT DETAIL
M-003 SCALE: N.T.S.

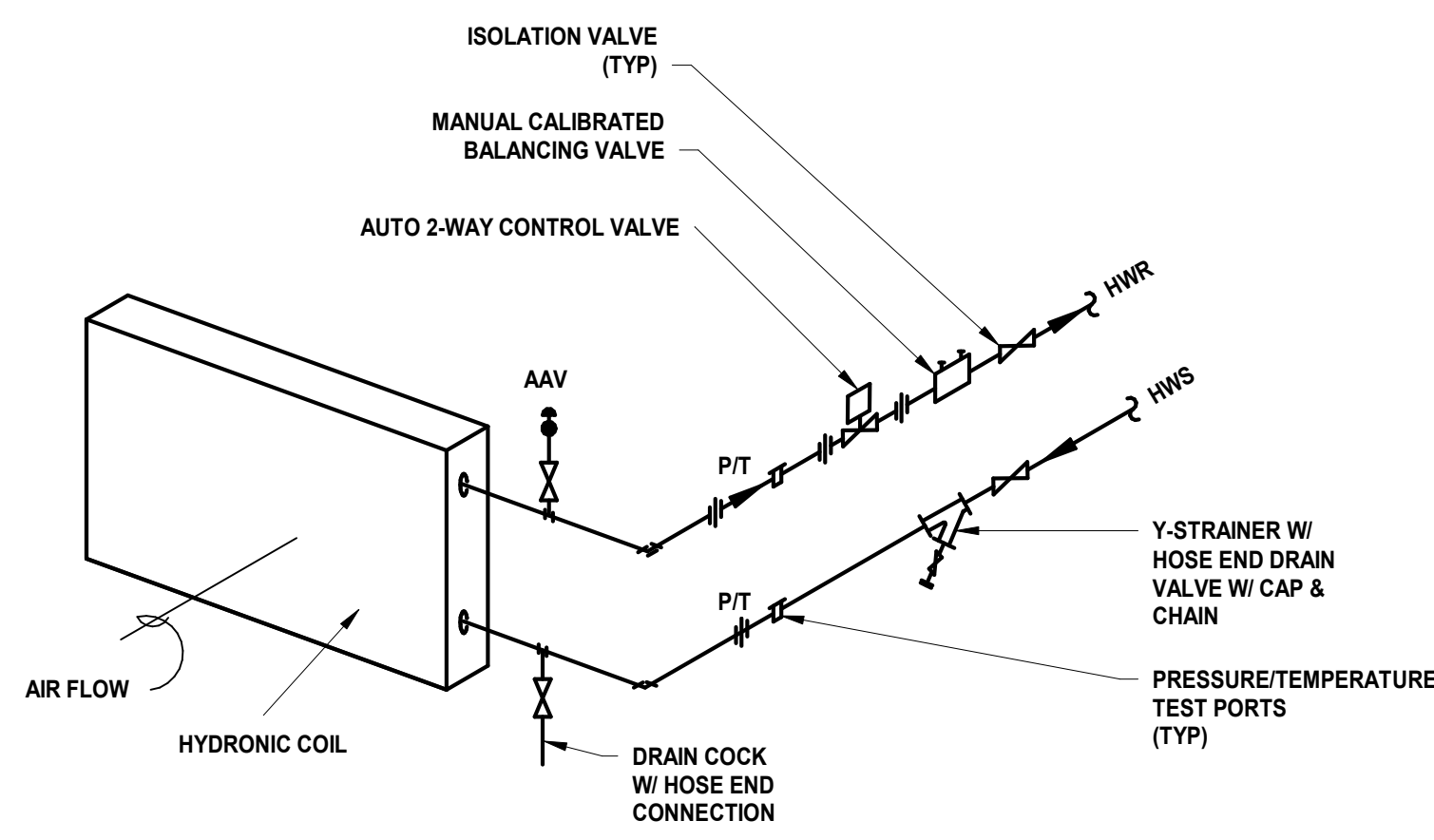


- NOTE:
- STEM ADJUSTED TO SUIT EXTENDED NECK REQUIREMENTS
- | PIPE SIZE (IN.) | INSERTION LENGTH (IN.) |
|-----------------|------------------------|
| 6 | 5 |
| 8 | 5 |
| 10 | 7 |
| 12 | 7 |
| 14 | 7 |
| 18-36 | 11 |

7 THERMOMETER DETAIL
M-003 SCALE: N.T.S.

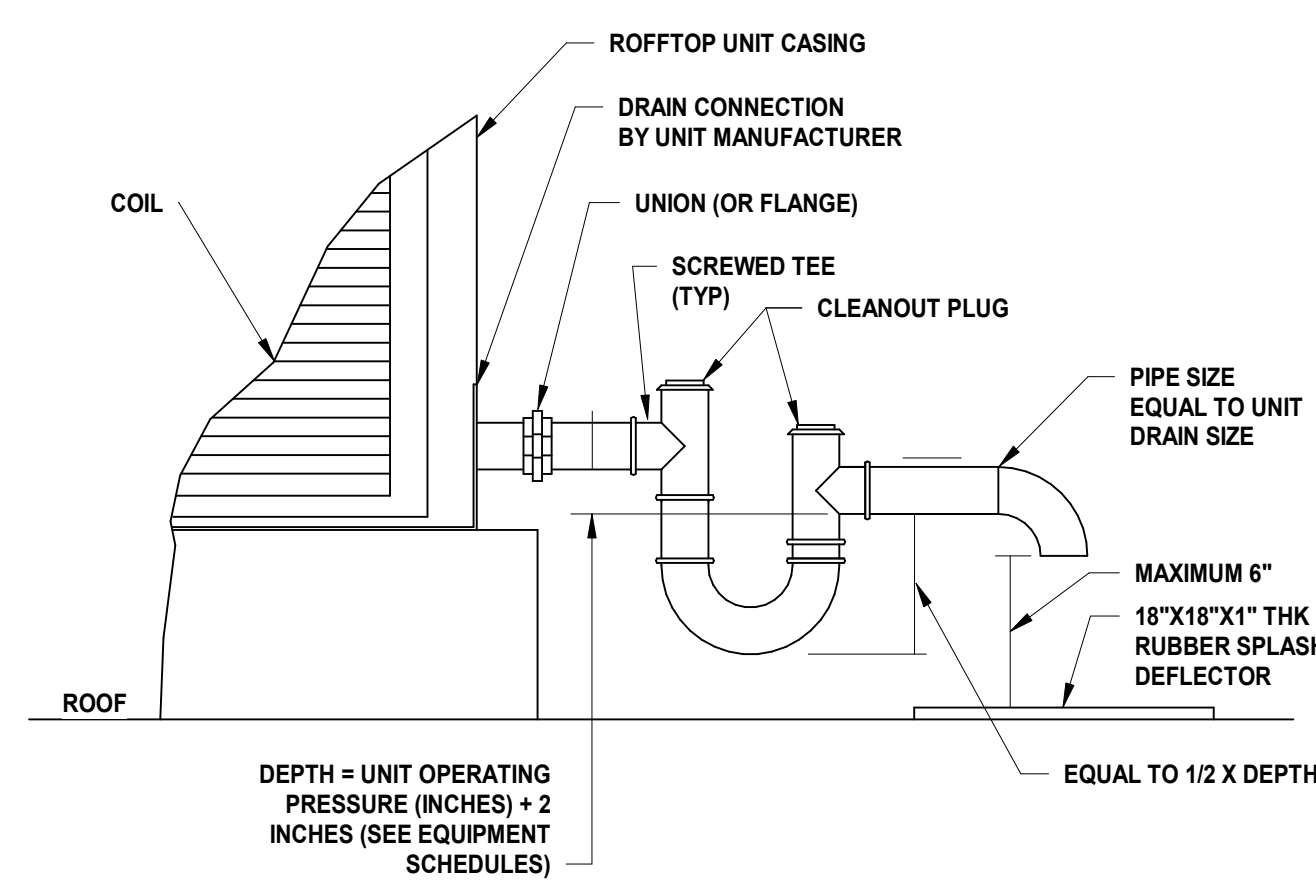


8 THERMOWELL DETAIL
M-003 SCALE: N.T.S.



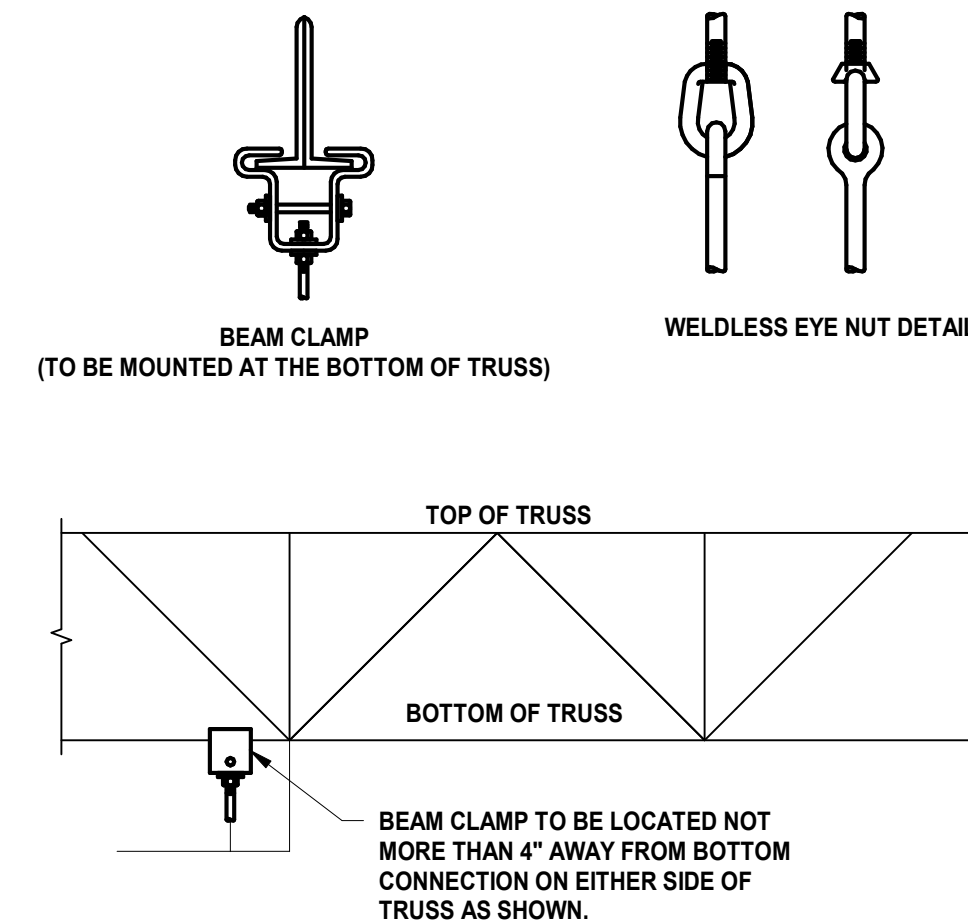
- NOTE:
1. APPLIES TO ALL HEATING COIL HOOK-UPS FOR EQUIPMENT ON THE PROJECT.
 2. REFER TO SPECIFICATIONS FOR ISOLATION VALVE TYPE BASED ON PIPE SIZE AND SYSTEM TYPE.

9 HYDRONIC COIL PIPING DETAIL
M-003 SCALE: N.T.S.



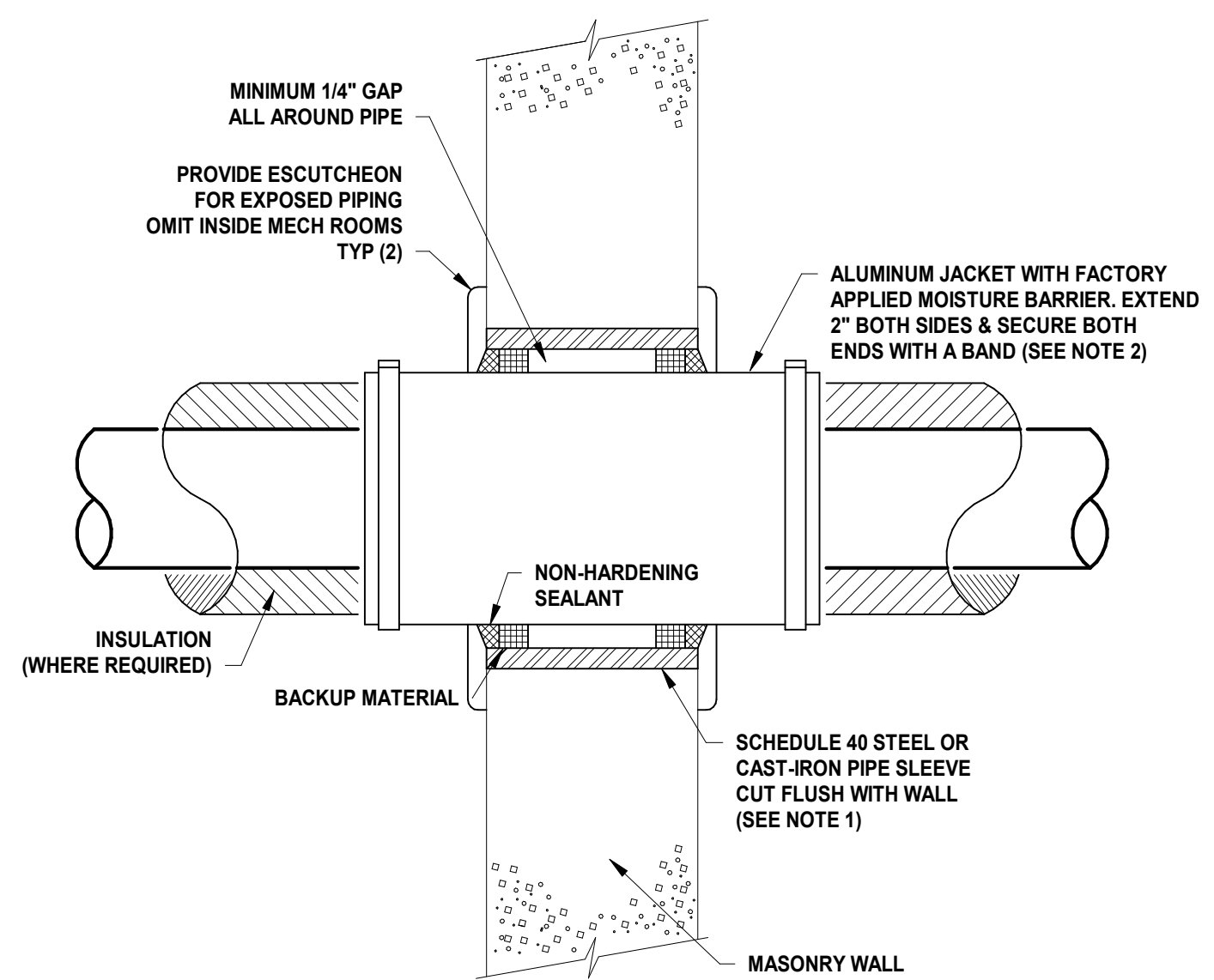
- NOTE:
1. APPLIES TO ALL ROOFTOP EQUIPMENT WITH DRAIN CONNECTIONS FOR COOLING COIL CONDENSATE OR OTHERWISE.

10 CONDENSATE DRAIN PIPE DETAIL ROOF MOUNTED UNIT
M-003 SCALE: N.T.S.



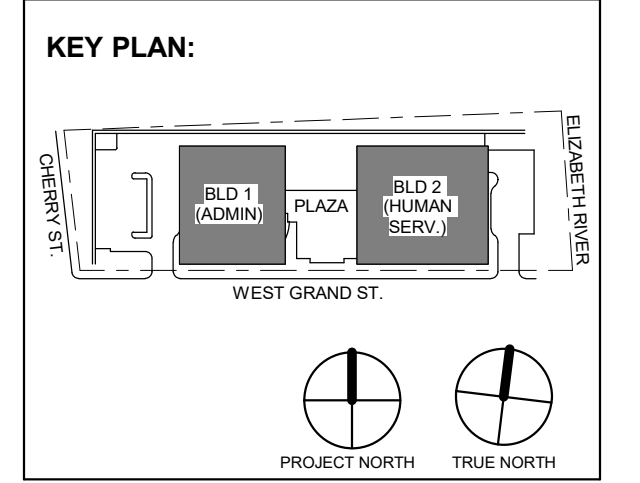
- NOTES:
1. THIS DETAIL IS TYPICAL FOR HVAC INSTALLATIONS. REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL ATTACHMENT DETAILS AND REQUIREMENTS.

11 ATTACHMENT TO STRUCTURAL DETAIL
M-003 SCALE: N.T.S.



- NOTES:
1. FOR GYP. BOARD WALLS PROVIDE MIN. 16 GAUGE GALV. STEEL SLEEVE W/ LOCK-TYPE LONGITUDINAL SEAM.
 2. OMIT ALUMINUM JACKET IF PIPING IS UNINSULATED.
 3. ALL EXTERIOR PIPING AND PENETRATIONS SHALL BE PAINTED WITH ONE COAT OF PRIMER SUITABLE FOR THE PAINTED SURFACE AND TWO COATS OF FEDERAL STANDARD COLOR 2046.

12 WALL PENETRATION DETAIL
M-003 SCALE: N.T.S.



No.	Date	Description
2	12/08/2023	Addendum No. 2
	11/08/2023	For Public Bid

PRELIMINARY
NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11/08/2023
Drawn By: JBA/VPC
Checked By: JM/SH

Sheet Name:
MECHANICAL DETAILS (2 OF 3)

Sheet No:

M-003

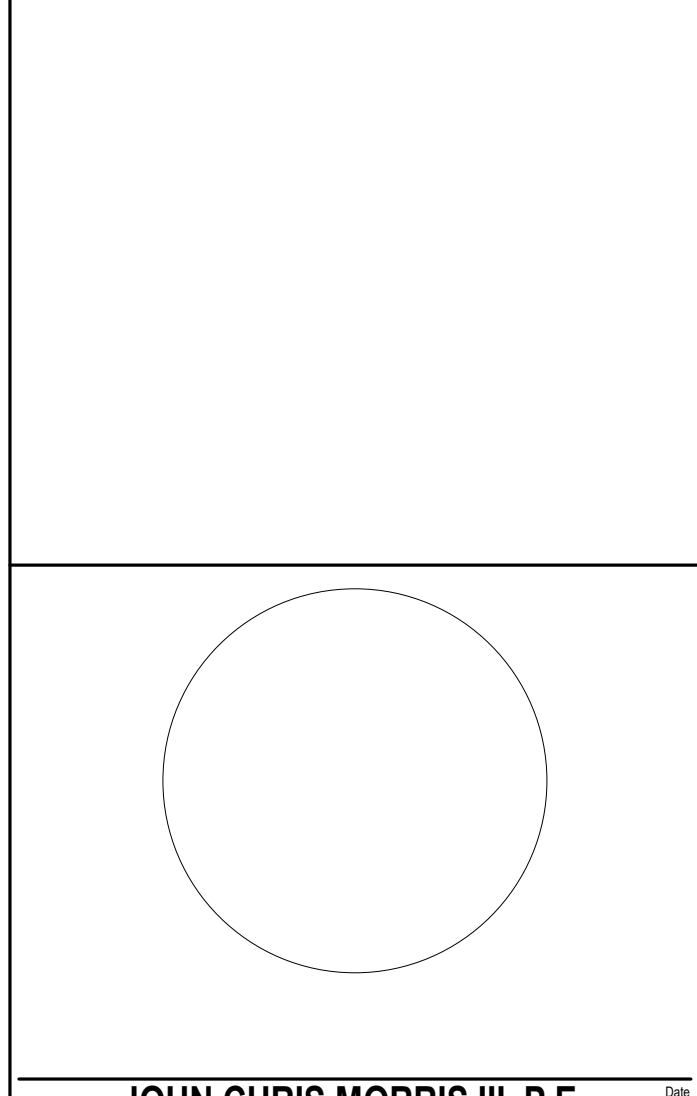
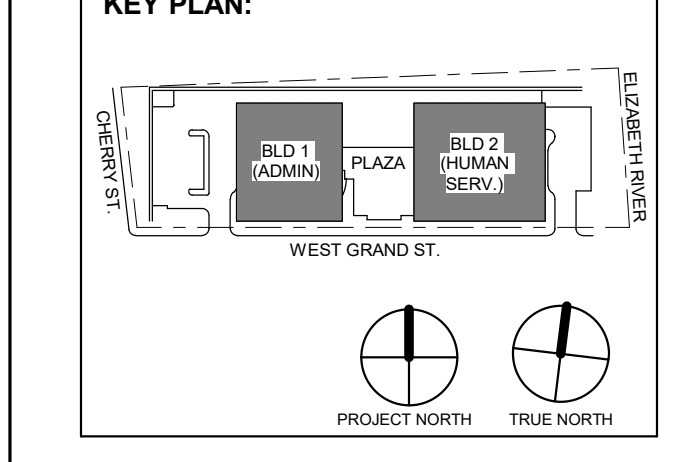


Table with project details: PROJECT No. DGA2301, DATE: 11/08/2023, SCALE: AS SHOWN



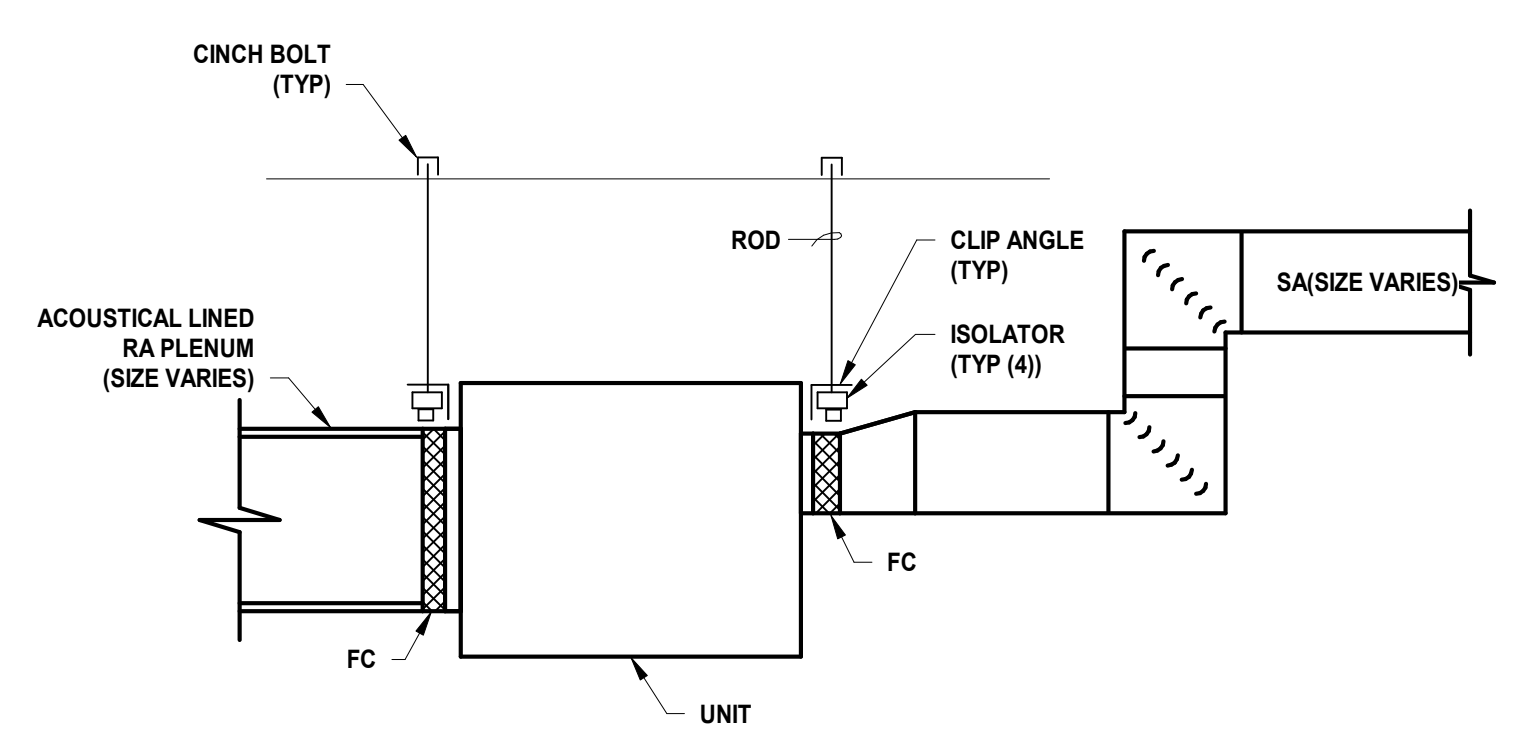
UNION COUNTY IMPROVEMENT AUTHORITY

UNION COUNTY GOVERNMENT COMPLEX 81 & 93 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

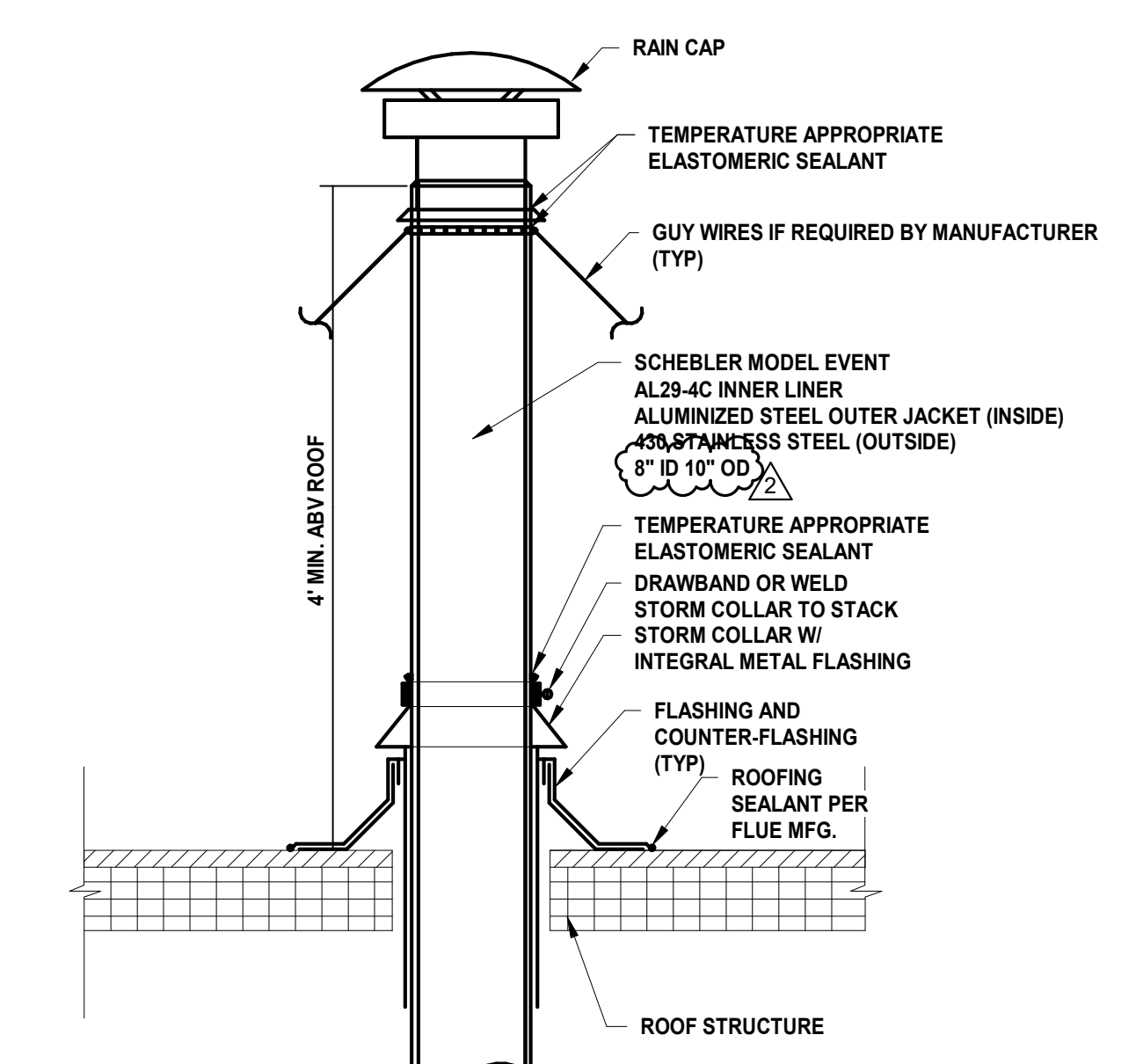
MECHANICAL DETAILS (3 OF 3)

Sheet No. M-004

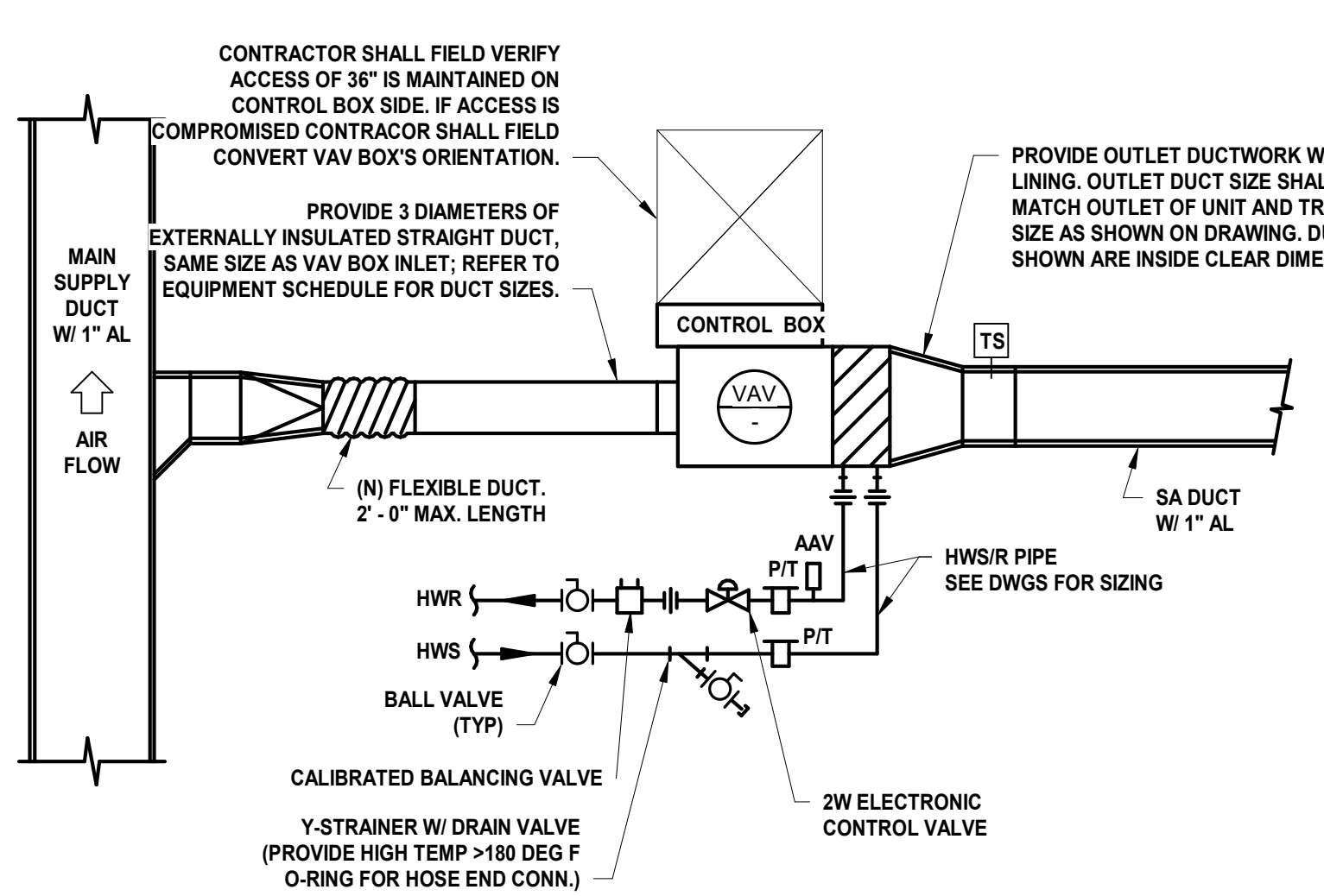
M-004



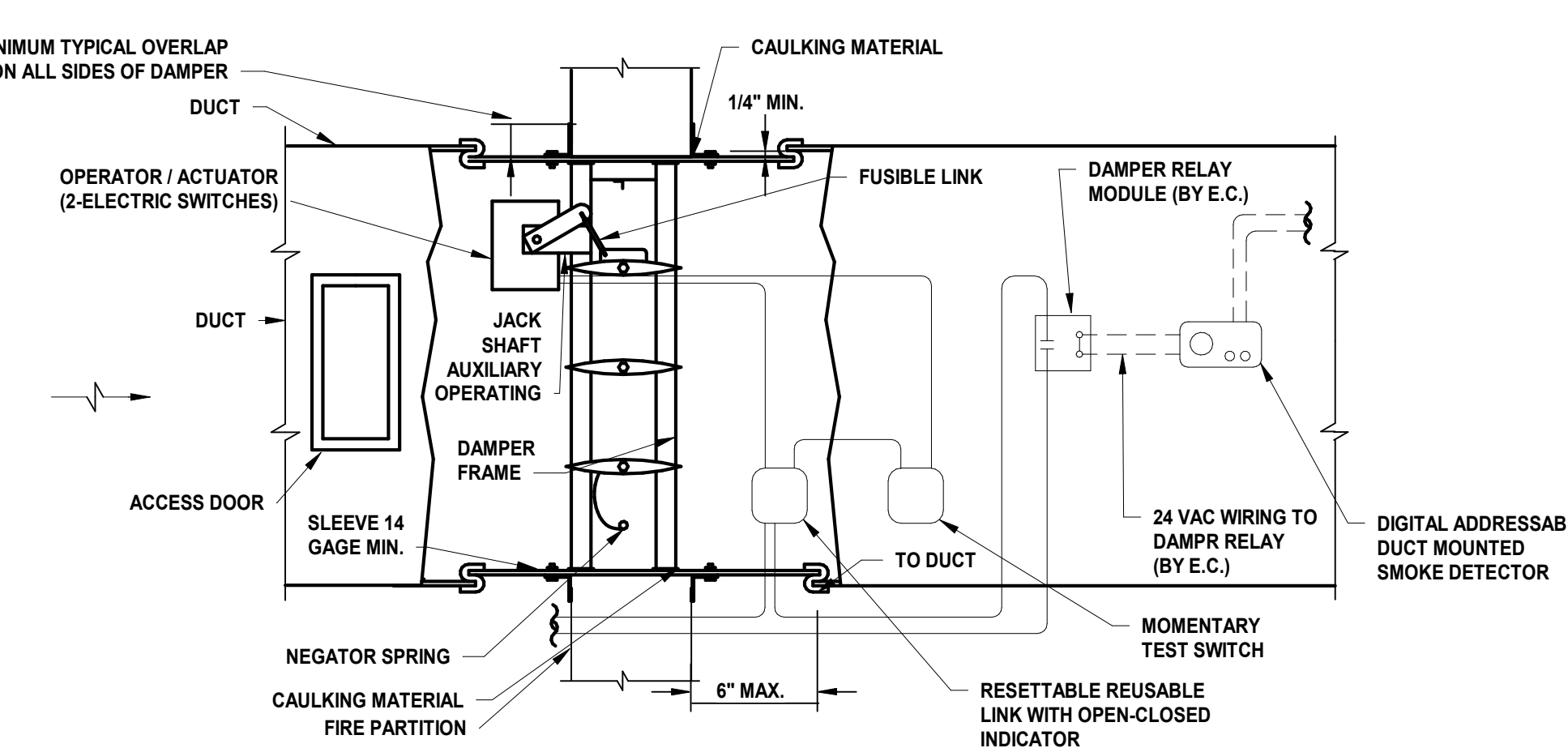
3 SUSPENDED UNIT SUPPORT DETAIL SCALE: N.T.S.



2 VENTING STACK DETAIL AT ROOF PENETRATION SCALE: N.T.S.

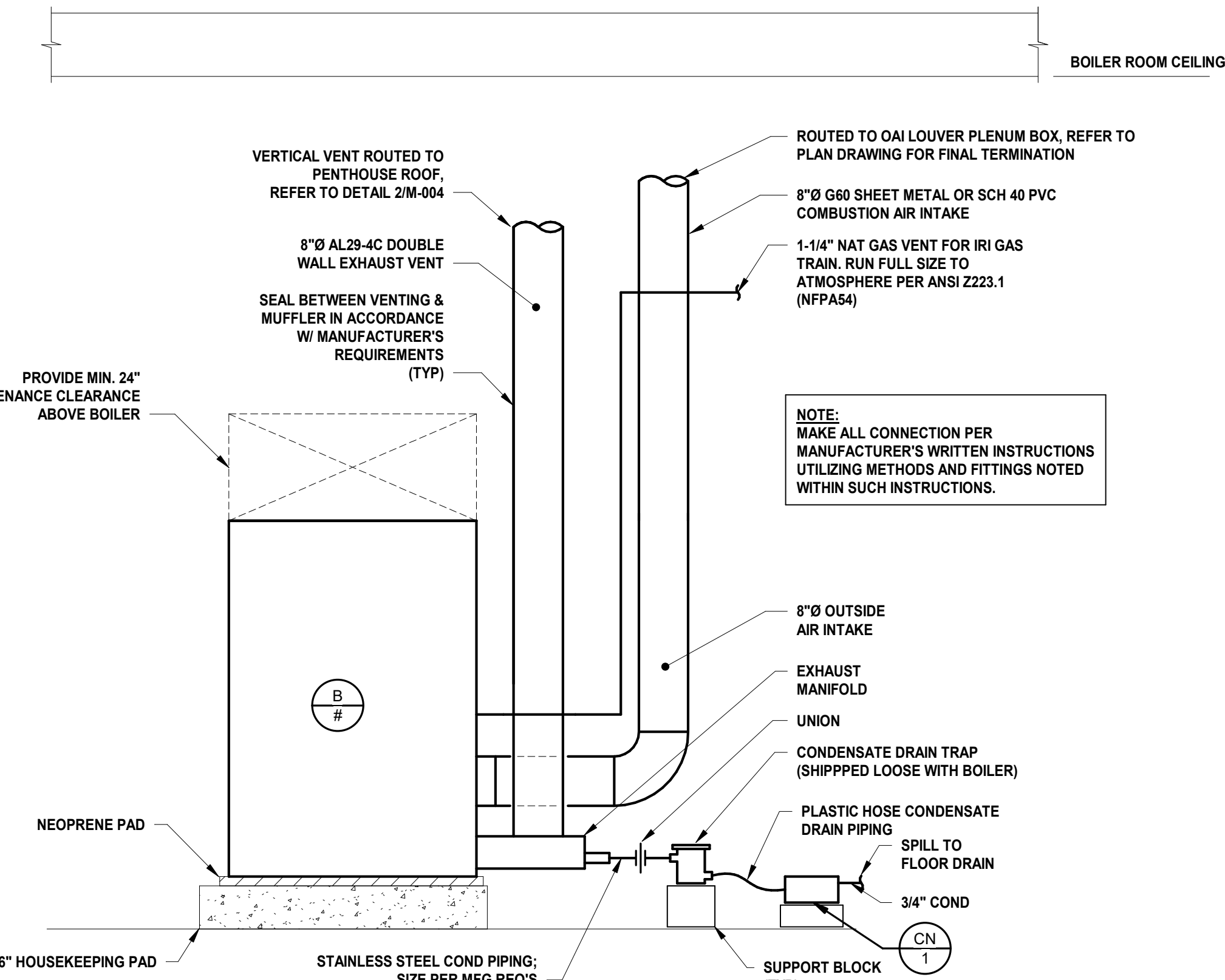


6 SINGLE DUCT VAV BOX DETAIL W/ INTEGRAL REHEAT COIL SCALE: N.T.S.



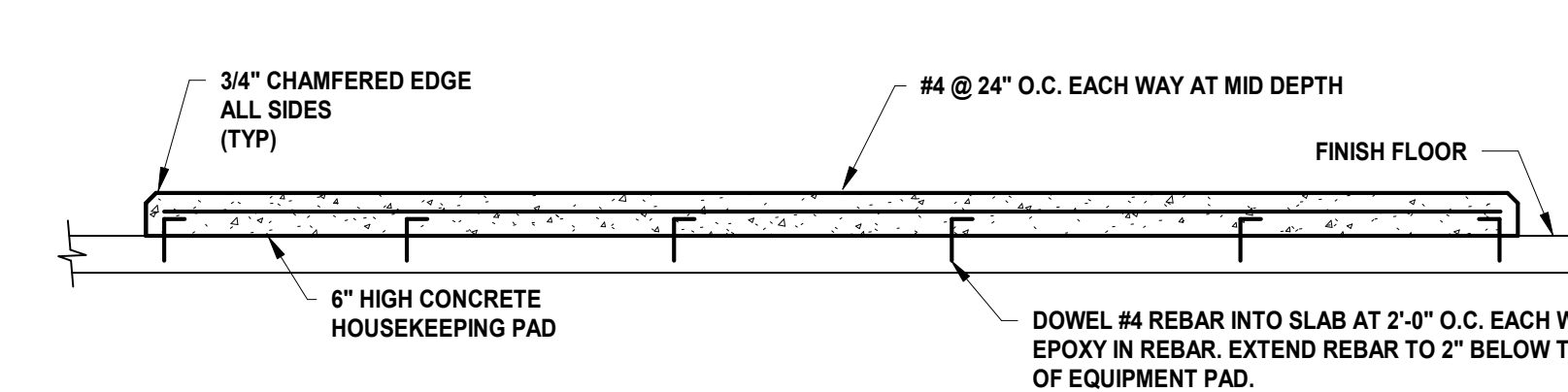
5 COMBINATION FIRE/SMOKE DAMPER DETAIL SCALE: N.T.S.

- NOTES: 1. CONTRACTOR SHALL INSTALL ELECTRIC ACTUATED, VAV SHUTOFF BOX WITH INTEGRAL REHEAT COIL AND DDC CONTROLS AS INDICATED AND SCHEDULED ON PLANS AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.



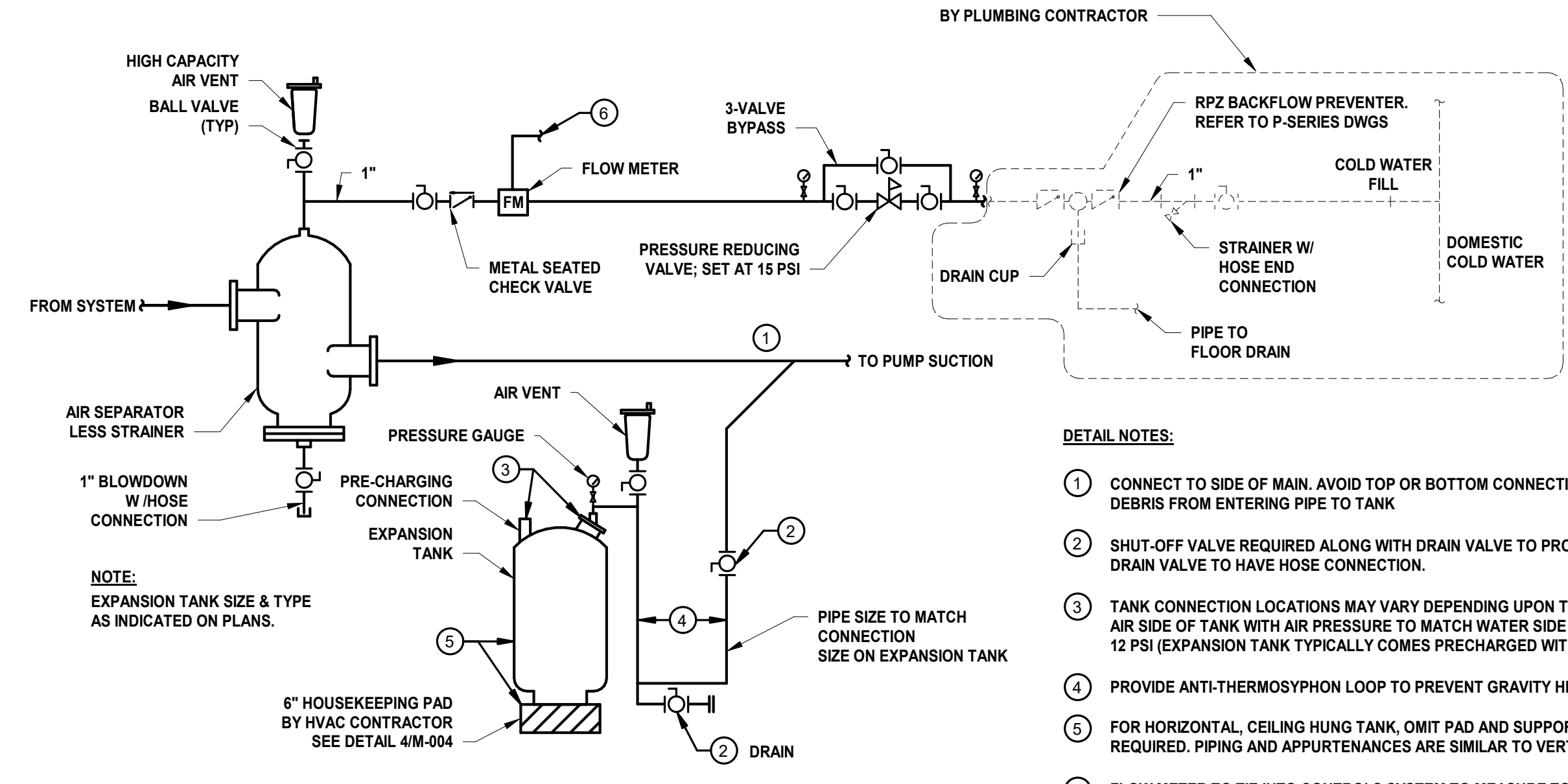
1 VENTING & CONDENSATE FOR BMK 2500/3000 DETAIL SCALE: N.T.S.

- NOTES: 1. INSTALL AERCO CONDENSATE DRAIN TRAP (SHIPPED LOOSE WITH BOILER) PER MANUFACTURER'S IOM MANUAL ADJACENT TO EACH BOILER. SUPPORT AS NECESSARY TO INSTALL DRAIN TRAP LEVEL, PLUMB AND JUST BELOW BOILER EXHAUST MANIFOLD OUTLET.



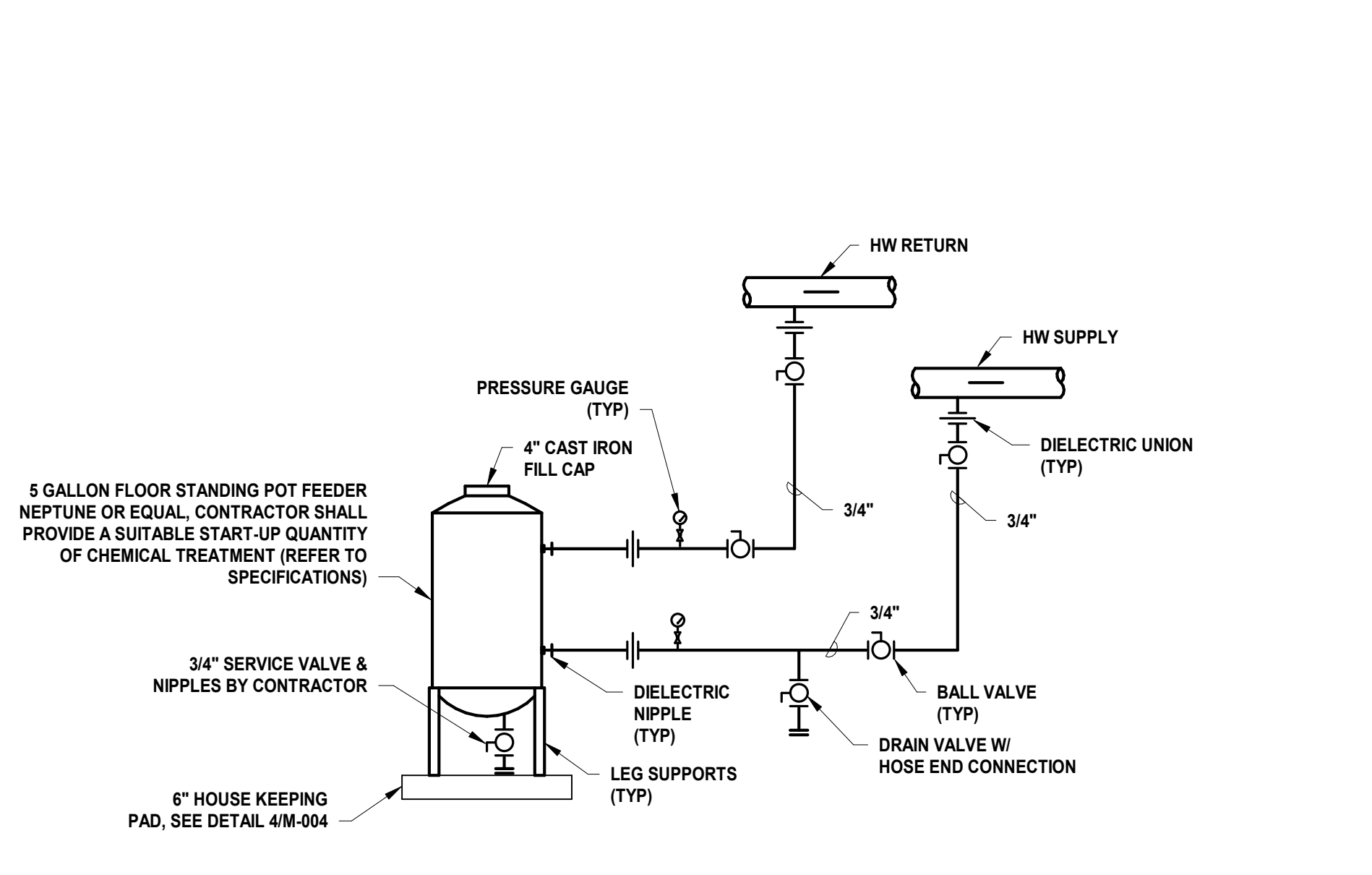
4 CONCRETE HOUSE KEEPING PAD DETAIL SCALE: N.T.S.

- NOTES: 1. ALL CEMENT SHALL CONFORM TO ASTM C-150, TYPE II



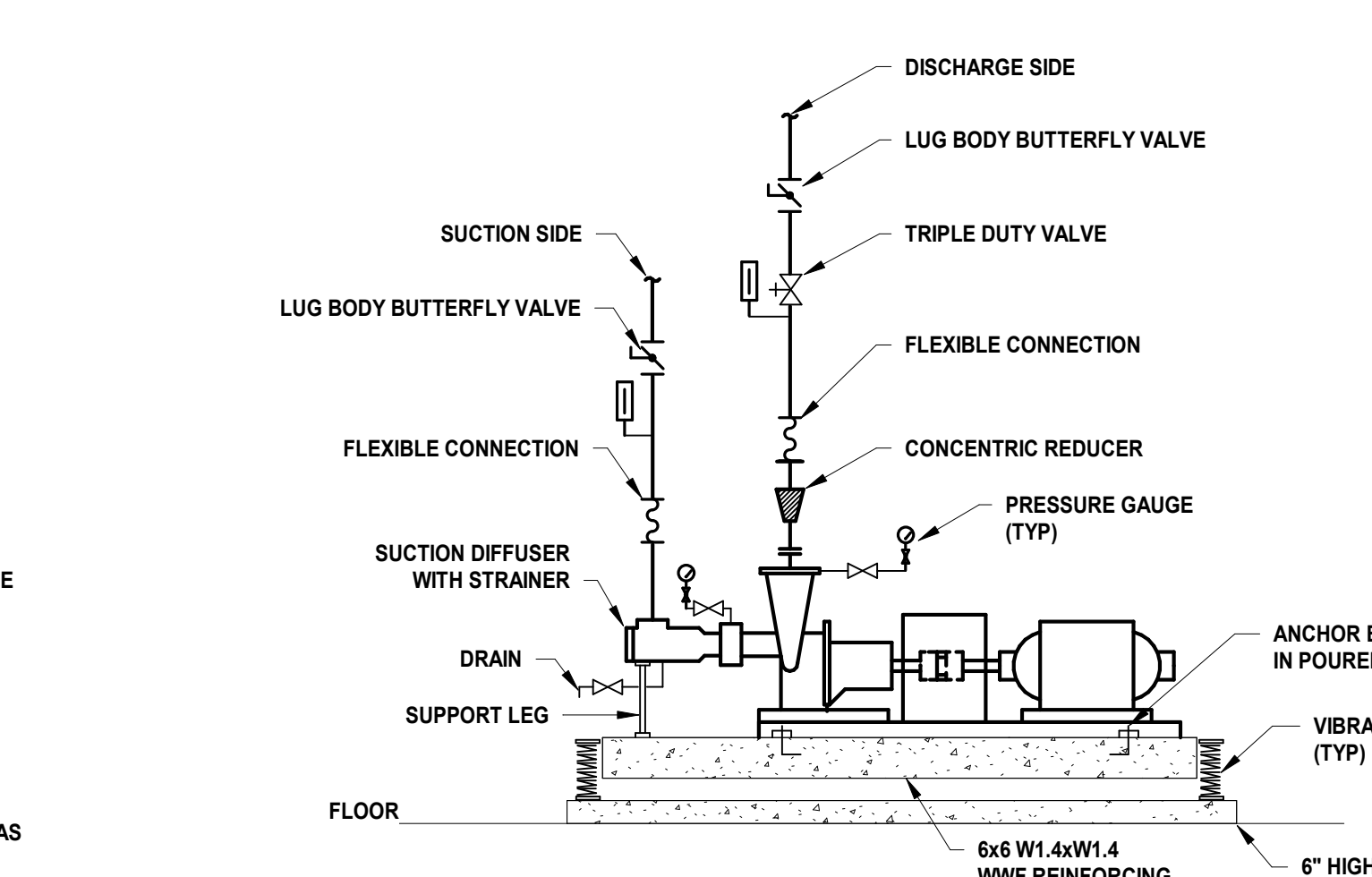
8 AIR SEPARATOR, EXPANSION TANK, AND MAKE-UP WATER PIPING DETAIL SCALE: N.T.S.

- DETAIL NOTES: 1. CONNECT TO SIDE OF MAIN. AVOID TOP OR BOTTOM CONNECTION TO PREVENT AIR OR DEBRIS FROM ENTERING PIPE TO TANK.



7 CHEMICAL BYPASS FEEDER DETAIL SCALE: N.T.S.

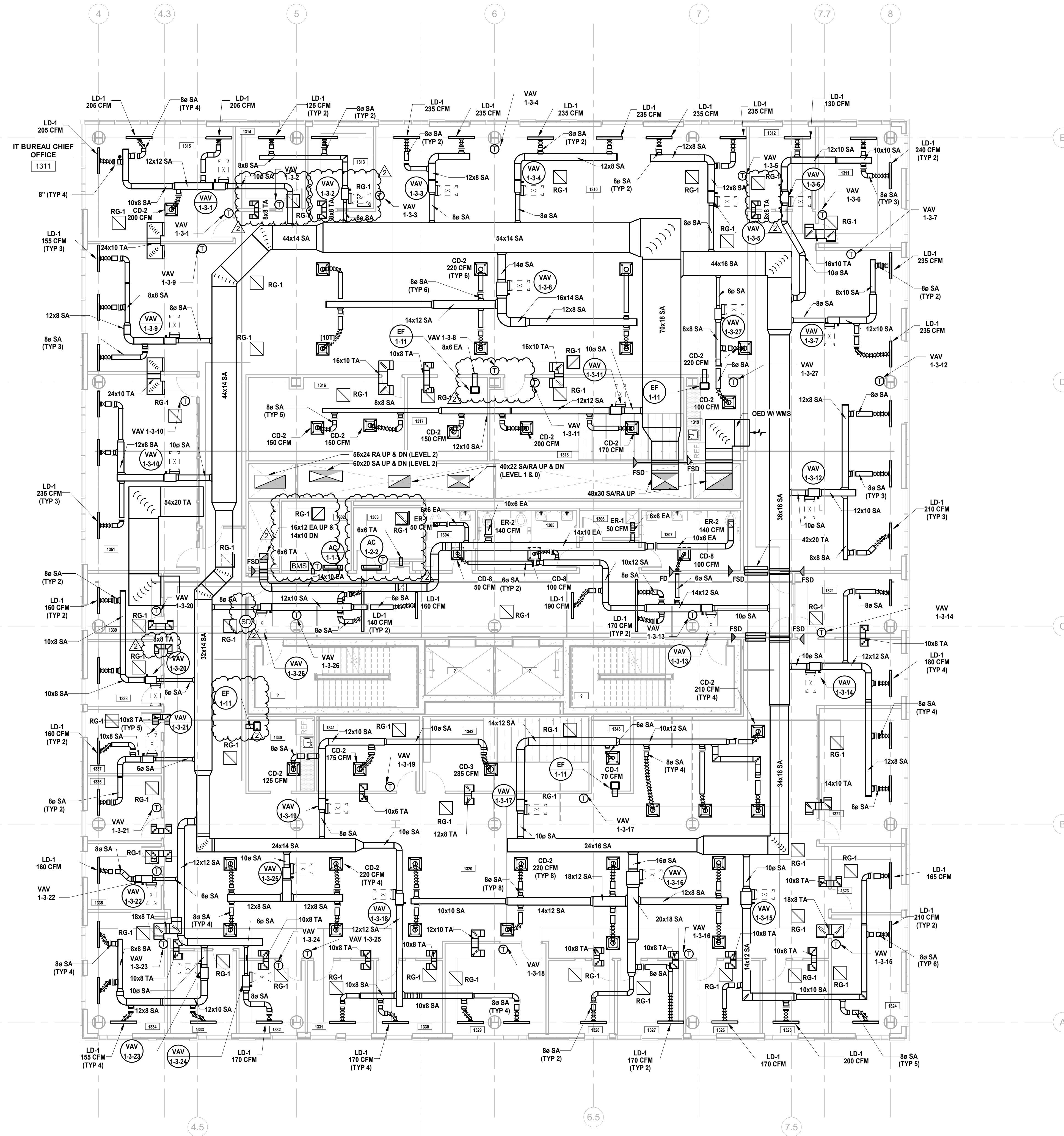
- NOTE: 1. CONTRACTOR TO IDENTIFY START-UP DIFFERENTIAL ACROSS "CLEAN" FEEDER AND PROVIDE READING ON NAMEPLATE FOR FUTURE REFERENCE BY OWNER.



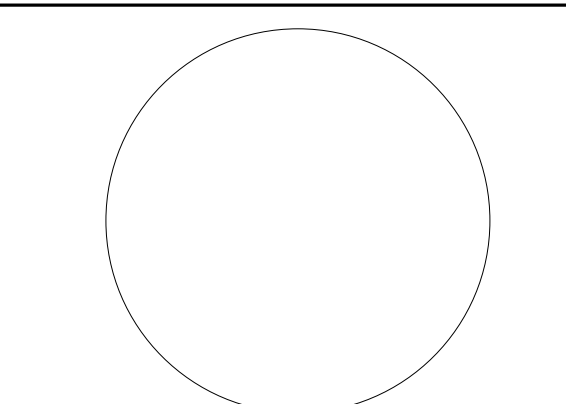
9 BASE MOUNTED END SUCTION PUMP DETAIL - W/ VIBRATION ISOLATION SCALE: N.T.S.

MECHANICAL SYSTEM NOTES:

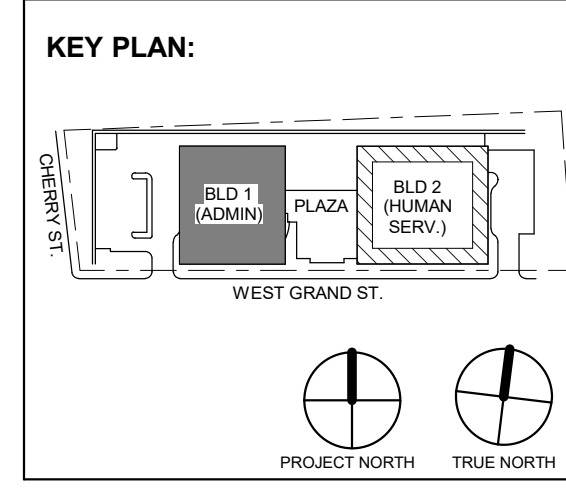
- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND APPURTENANCES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS. 2. DUCTWORK SYSTEM NOTES: A. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON PLAN AND AS SCHEDULED. B. CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. C. ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACUSTICAL LINING AND INSULATION REQUIREMENTS. D. ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING. E. ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE ACCESS DOORS INSTALLED PER THE PROJECT DETAILS AND SPECIFICATIONS. F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO HLTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS. H. CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS.



1 BUILDING NO. 1 - LEVEL 3 - MECHANICAL DUCTWORK PLAN M-104 SCALE: 1/8" = 1'-0"



JOHN CHRIS MORRIS III, P.E. ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY IS UNLAWFUL. DESIGNED BY: JSK/DKR DRAWN BY: JSK CHECKED BY: JCM REVIEWED BY: JSK PROJECT NO: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



Revisions / Issues table with columns for No., Date, Description, and Revisions / Issues.

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA NJ RA AI 00827100



DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

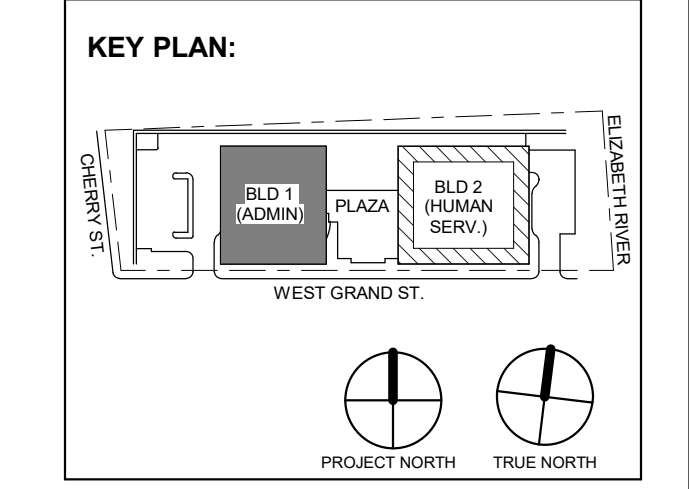
Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JSK/AVPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 3 - MECHANICAL DUCTWORK PLAN

Sheet No: M-104



DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA NJ RA AI 00827100

PRELIMINARY NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

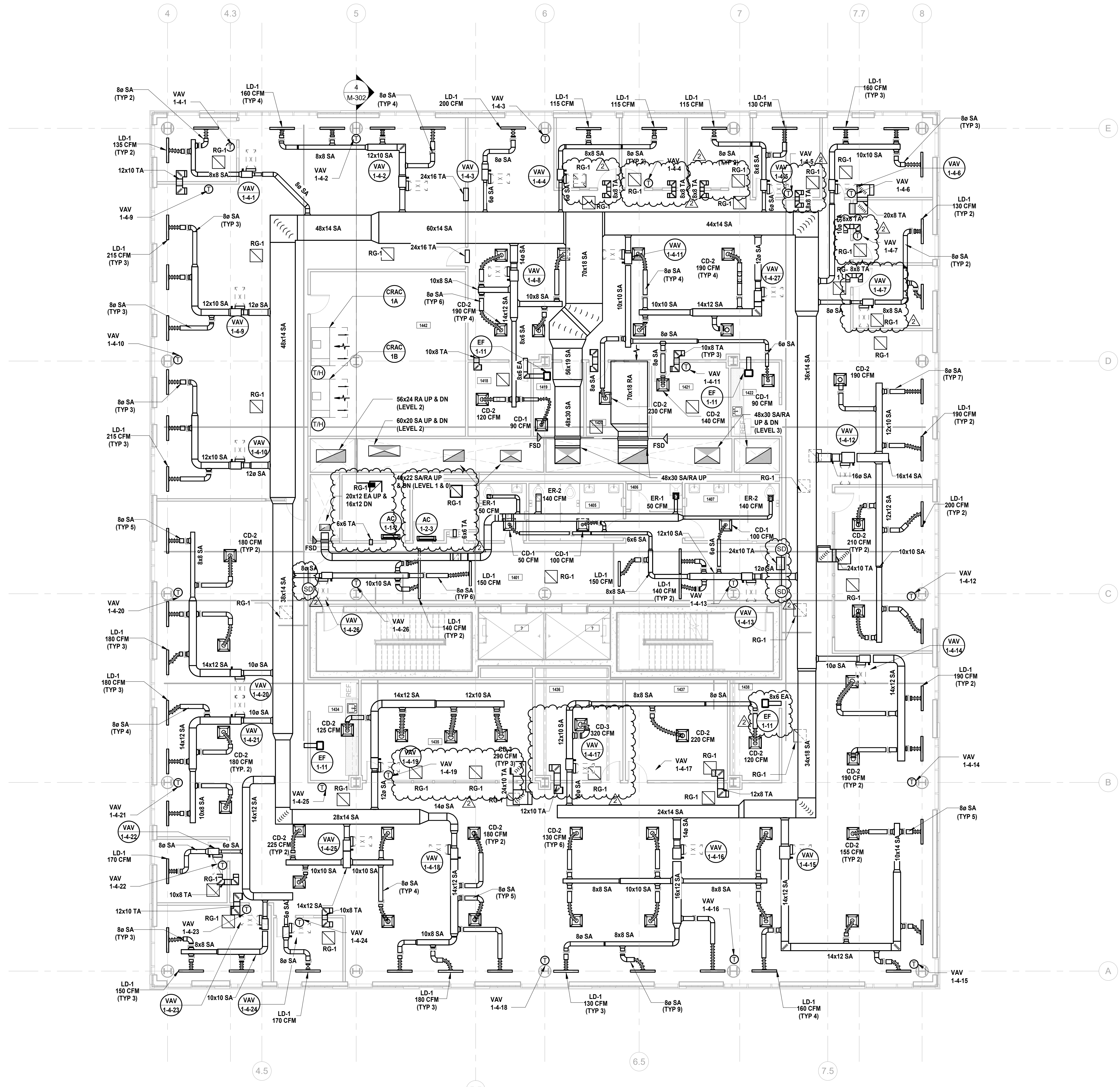
Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JS/AV/PC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - LEVEL 4 - MECHANICAL DUCTWORK PLAN

Sheet No: M-105

MECHANICAL SYSTEM NOTES:

- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND APPURTENANCES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS. 2. DUCTWORK SYSTEM NOTES: A. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON PLAN AND AS SCHEDULED. B. CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. C. ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACOUSTICAL LINING AND INSULATION REQUIREMENTS. D. ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING. E. ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE ACCESS DOORS INSTALLED PER THE PROJECT DETAILS AND SPECIFICATIONS. F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO ULTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS. H. CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS.

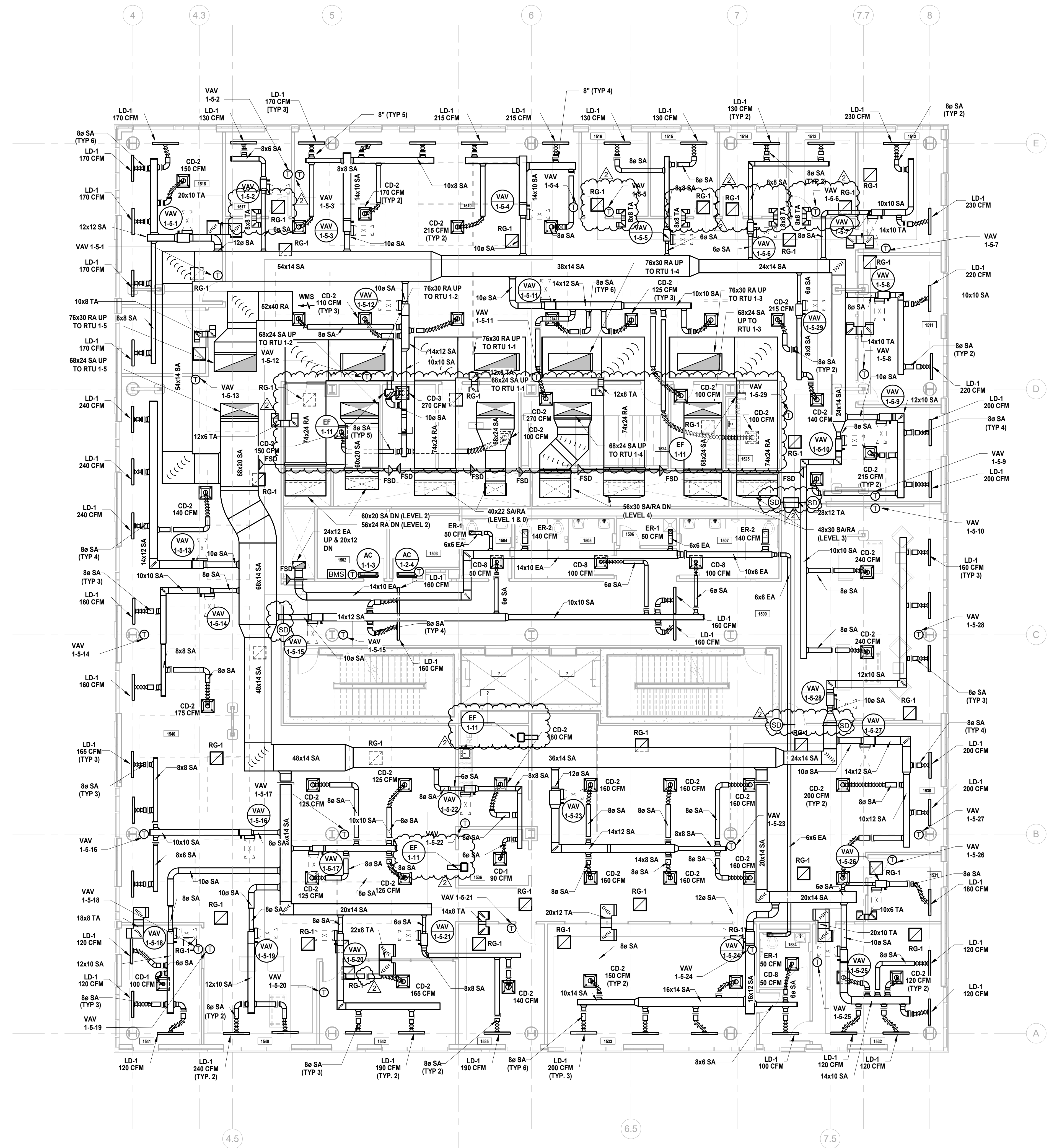


1 BUILDING NO. 1 - LEVEL 4 - MECHANICAL DUCTWORK PLAN

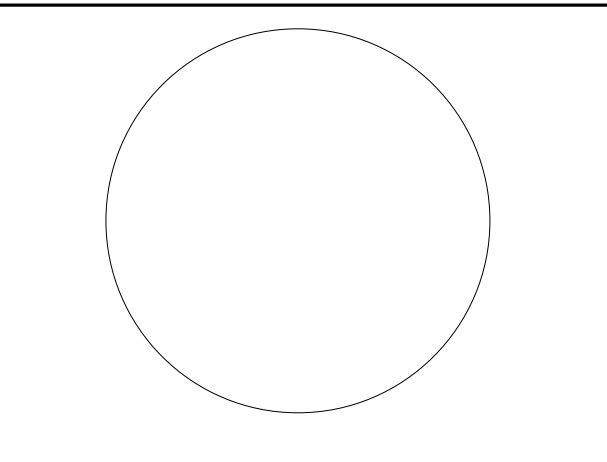
M-105 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

MECHANICAL SYSTEM NOTES:

- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND APPURTENANCES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS. 2. DUCTWORK SYSTEM NOTES: A. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON PLAN AND AS SCHEDULED. B. CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. C. ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACUSTICAL LINING AND INSULATION REQUIREMENTS. D. ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING. E. ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE ACCESS DOORS INSTALLED PER THE PROJECT DETAILS AND SPECIFICATIONS. F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO HLTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS. H. CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS. I. INTERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS WITH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE PROVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS.



1 BUILDING NO. 1 - LEVEL 5 - MECHANICAL DUCTWORK PLAN M-106 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"



JOHN CHRIS MORRIS III, P.E. DESIGNER BY: JSK/DKR DRAWN BY: JSK CHECKED BY: JCM REVIEWED BY: DATE: 11/08/2023 SCALE: AS SHOWN

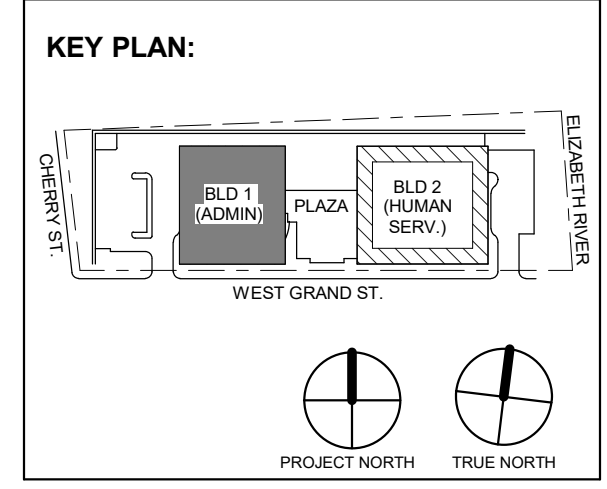


Table with 2 columns: No., Date, Description, Revisions / Issues. Row 1: 2, 12/08/2023, Addendum No. 2, For Public Bid.

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA NJ RA AI 00827100



DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

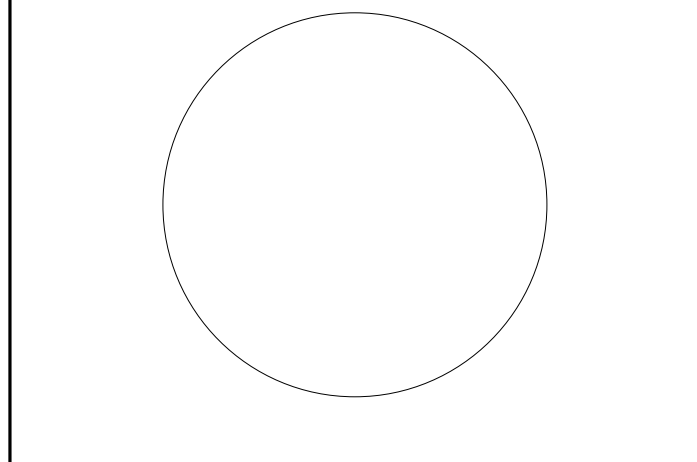
Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11/08/2023 Drawn By: JSK/AVPC Checked By: JM/SJ

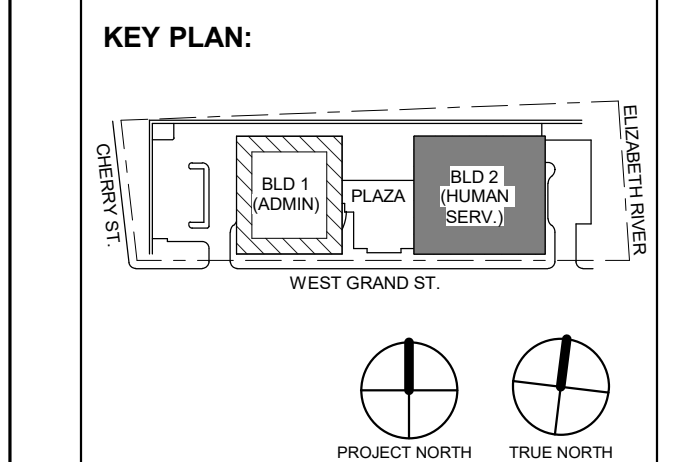
Sheet Name: BUILDING NO. 1 - LEVEL 5 - MECHANICAL DUCTWORK PLAN

Sheet No: M-106



JOHN CHRIS MORRIS III, P.E. ALTERNATE OF THIS DOCUMENT ACCEPTS RESPONSIBILITY FOR THE DESIGN AND CONSTRUCTION OF THE MECHANICAL SYSTEMS SHOWN ON THESE PLANS. DESIGNED BY: JSK/DKR DRAWN BY: JSK CHECKED BY: JCM REVIEWED BY: JSK

PROJECT No: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



2 12.08.2023 Addendum No. 2 11.08.2023 For Public Bid

No. Date Description Revisions / Issues

15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W. Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA NJ RA AI 00827100

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JSK/JMPC Checked By: JM/SH

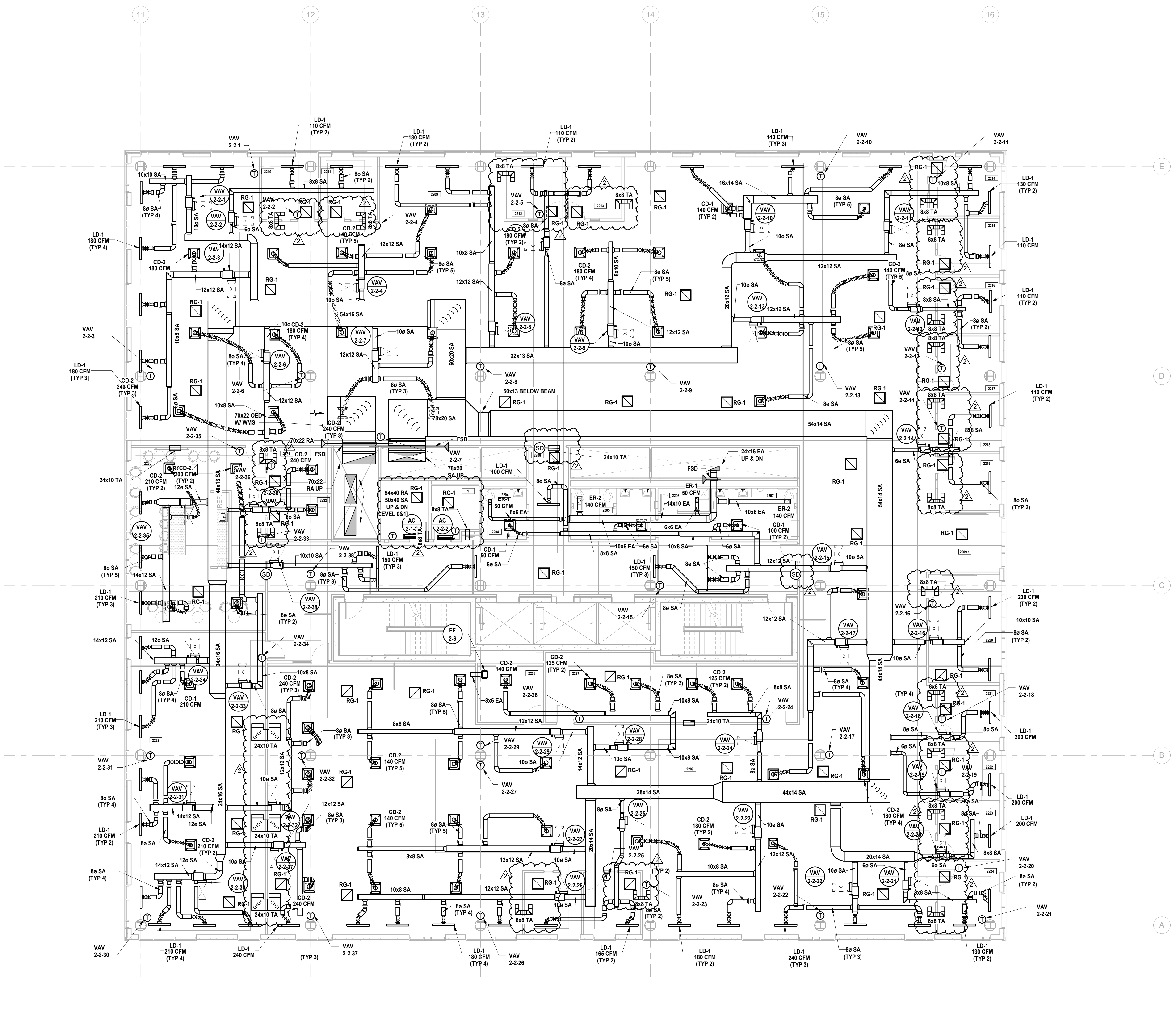
Sheet Name: BUILDING NO. 2 - LEVEL 2 - MECHANICAL DUCTWORK PLAN

Sheet No:

M-112

MECHANICAL SYSTEM NOTES:

- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND APPURTENANCES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS. 2. DUCTWORK SYSTEM NOTES: A. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON PLAN AND AS SCHEDULED. B. CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. C. ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACoustICAL LINING AND INSULATION REQUIREMENTS. D. ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING. E. ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE ACCESS DOORS INSTALLED PER THE PROJECT DETAILS AND SPECIFICATIONS. F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO HLTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS. H. CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS.

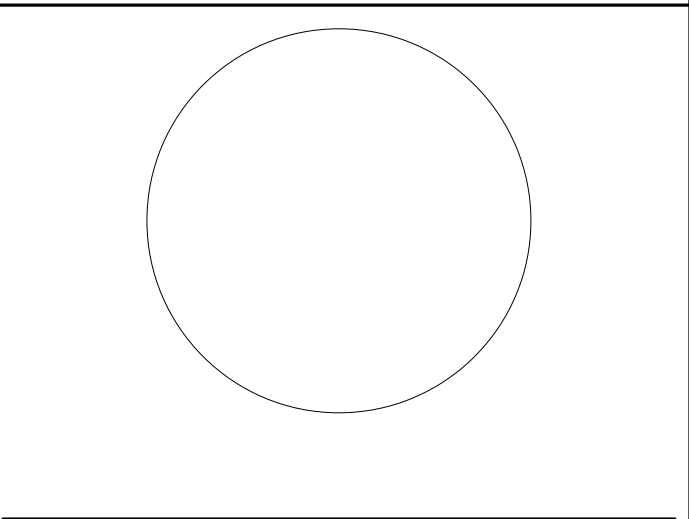
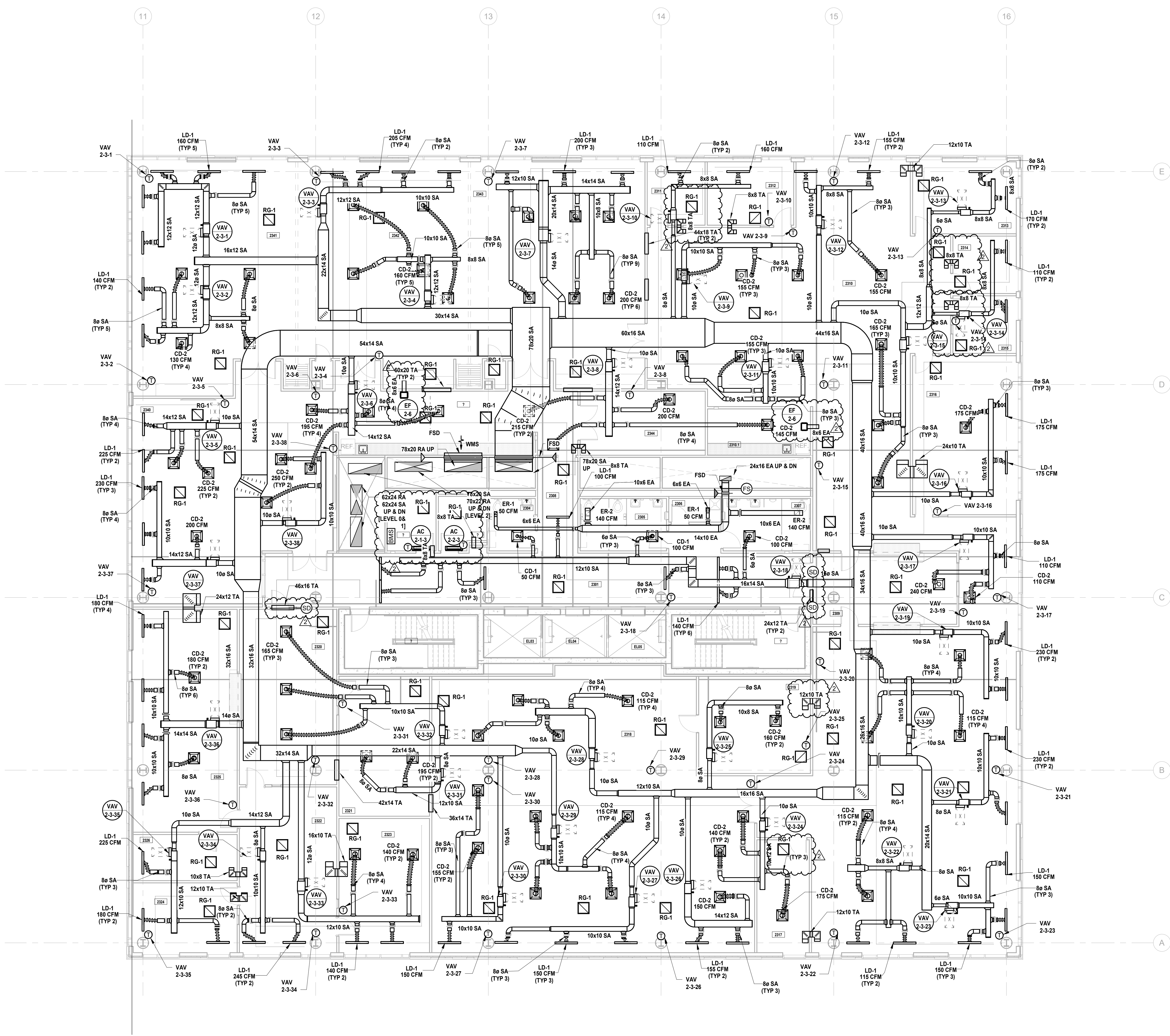


1 BUILDING NO. 2 - LEVEL 2 - MECHANICAL DUCTWORK PLAN

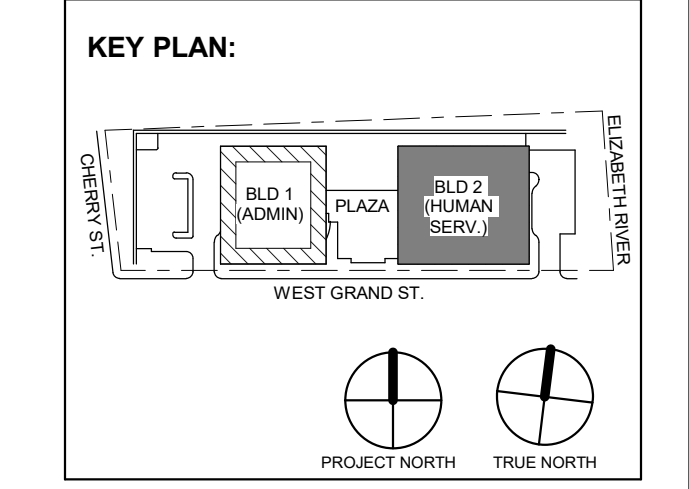
M-112 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

MECHANICAL SYSTEM NOTES:

- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND APPURTENANCES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS. 2. DUCTWORK SYSTEM NOTES: A. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON PLAN AND AS SCHEDULED. B. CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. C. ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACUSTICAL LINING AND INSULATION REQUIREMENTS. D. ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING. E. ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE ACCESS DOORS INSTALLED PER THE PROJECT DETAILS AND SPECIFICATIONS. F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO HLTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS. H. CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS.



JOHN CHRIS MORRIS III, P.E. ALTERNATE OF THE DESIGN PROFESSIONAL REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW JERSEY. DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM PROJECT NO: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



2 12.08.2023 Addendum No. 2 11.08.2023 For Public Bid No. Date Description Revisions / Issues

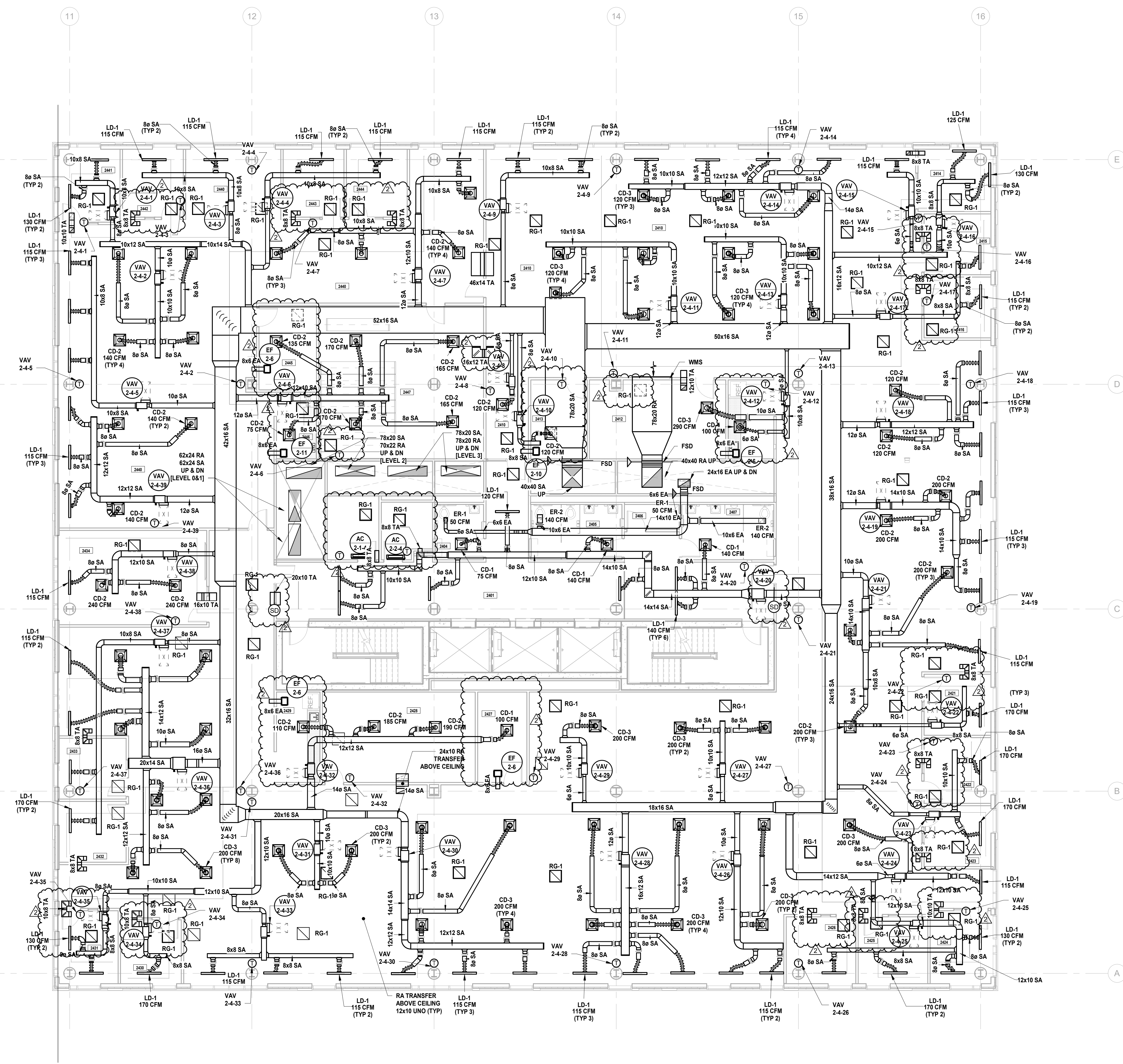
DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W Hunting Park Ave • Philadelphia, PA 19122-1 • 215.634.3400 Jeffrey D. Venezia, AIA NJ RA AI 00827100

Client: UNION COUNTY IMPROVEMENT AUTHORITY Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202 Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH Sheet Name: BUILDING NO. 2 - LEVEL 3 - MECHANICAL DUCTWORK PLAN Sheet No:

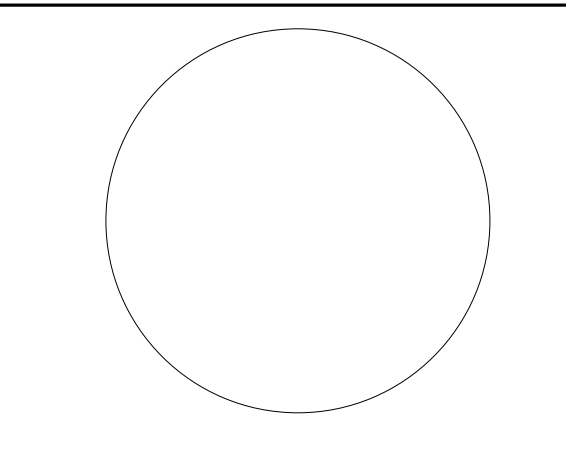
1 BUILDING NO. 2 - LEVEL 3 - MECHANICAL DUCTWORK PLAN M-113 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

MECHANICAL SYSTEM NOTES:

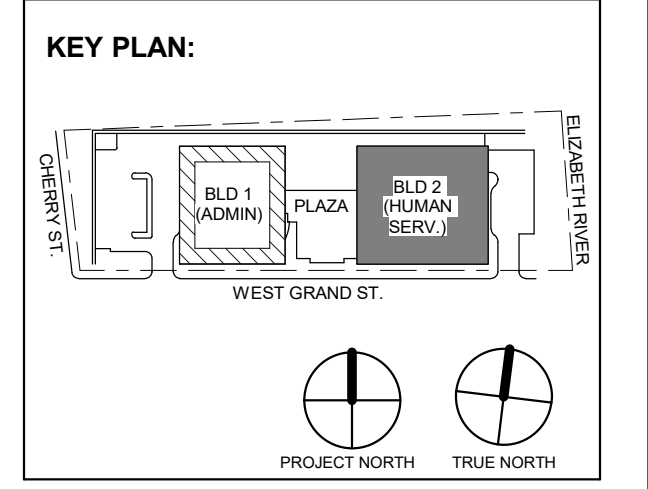
- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND APPURTENANCES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS. 2. DUCTWORK SYSTEM NOTES: A. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON PLAN AND AS SCHEDULED. B. CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. C. ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACoustICAL LINING AND INSULATION REQUIREMENTS. D. ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING. E. ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE ACCESS DOORS INSTALLED PER THE PROJECT DETAILS AND SPECIFICATIONS. F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO HLTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS. H. CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS.



1 BUILDING NO. 2 - LEVEL 4 - MECHANICAL DUCTWORK PLAN M-114 SCALE: 1/8" = 1'-0"



REVISIONS table with columns: No., Date, Description, Revisions / Issues.



DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA NJ RA AI 03627100

PRELIMINARY NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JSB/AJPC Checked By: JM/SJ

Sheet Name: BUILDING NO. 2 - LEVEL 4 - MECHANICAL DUCTWORK PLAN

Sheet No: M-114

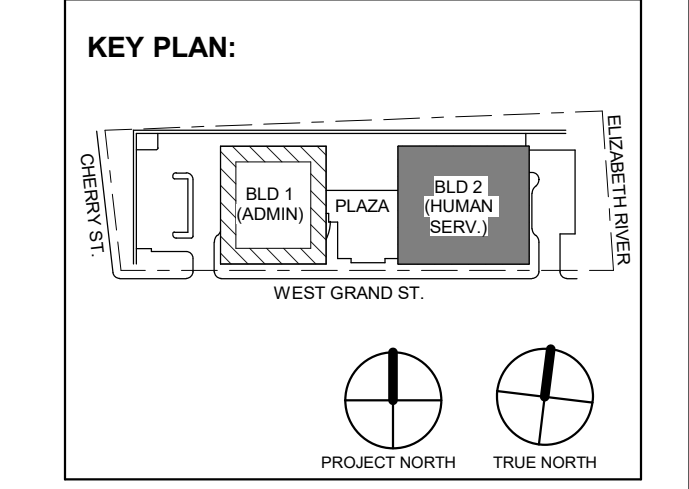


Table with 2 columns: No., Date, Description, Revisions / Issues. Row 1: 2, 12/08/2023, Addendum No. 2, For Public Bid.

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Veneziat, AIA NJ RA AI 00827100



DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

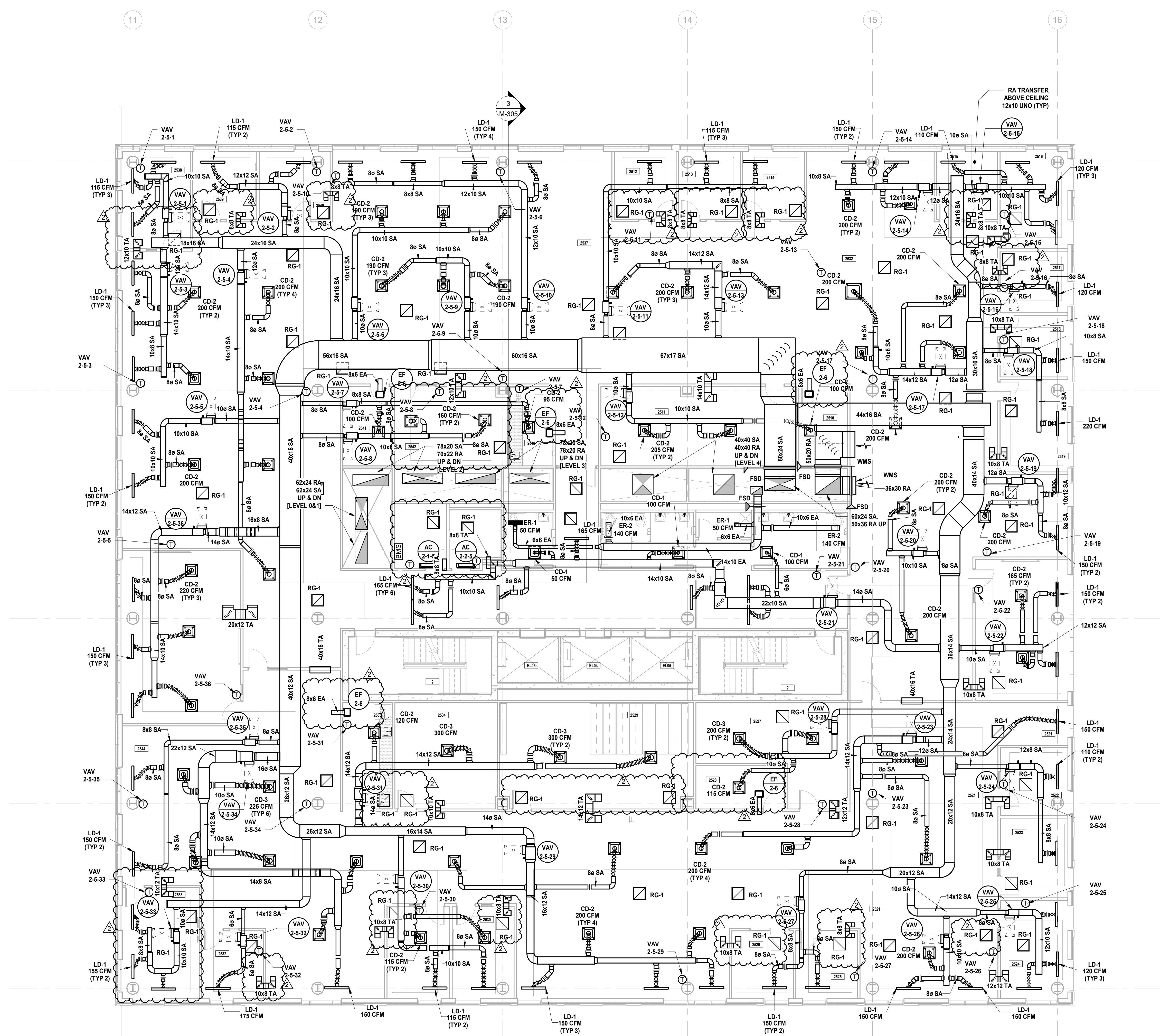
Drawing Information: Project No: 20.072 Date: 11/08/2023 Drawn By: JBA/VPC Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - LEVEL 5 - MECHANICAL DUCTWORK PLAN

Sheet No: M-115

MECHANICAL SYSTEM NOTES:

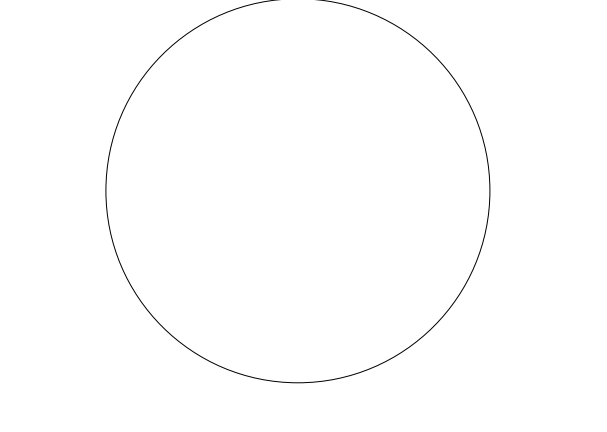
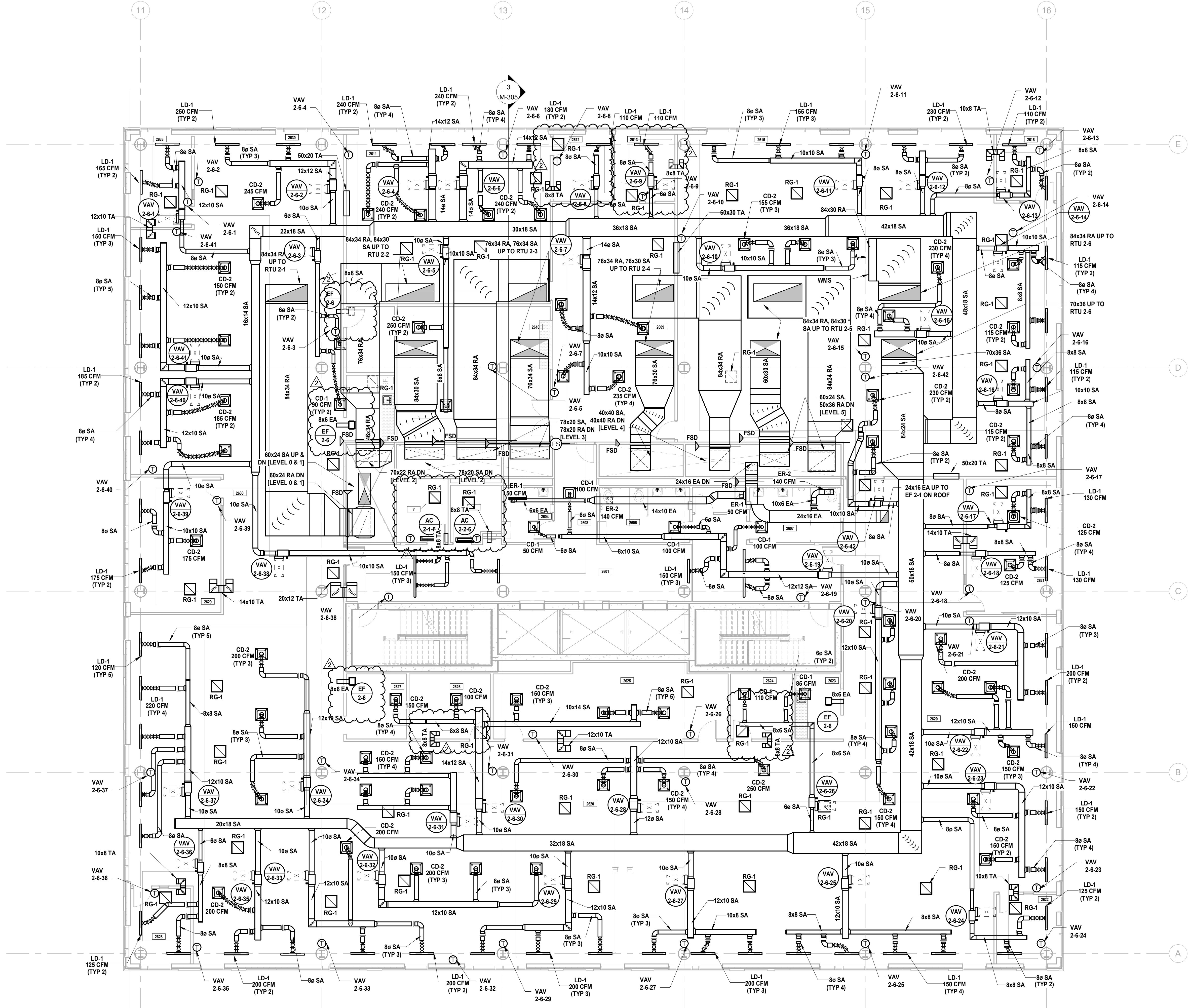
- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND APPURTENANCES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS. 2. DUCTWORK SYSTEM NOTES: A. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON PLAN AND AS SCHEDULED. B. CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. C. ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACOUSTICAL LINING AND INSULATION REQUIREMENTS. D. ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING. E. ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE ACCESS DOORS INSTALLED PER THE PROJECT DETAILS AND SPECIFICATIONS. F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO HLTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS. H. CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS.



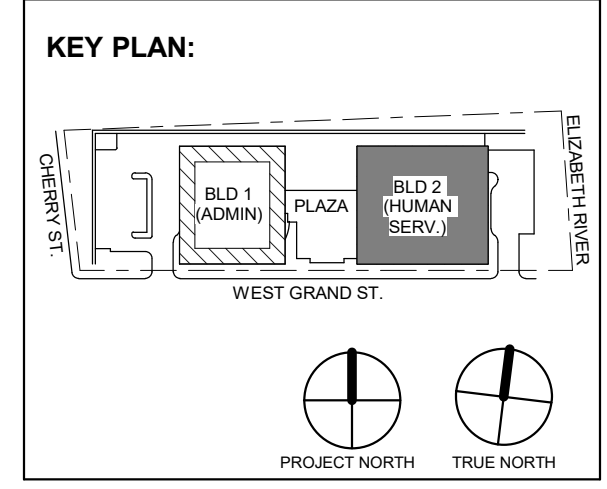
1 BUILDING NO. 2 - LEVEL 5 - MECHANICAL DUCTWORK PLAN M-115 SCALE: 1/8" = 1'-0" SCALE BAR: 1/8"=1'-0"

MECHANICAL SYSTEM NOTES:

- 1. GENERAL NOTES: A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT. B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT. C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS. D. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND APPURTENANCES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS. 2. DUCTWORK SYSTEM NOTES: A. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT INDICATED ON PLAN AND AS SCHEDULED. B. CONTRACTOR SHALL COORDINATE ALL FRAME TYPES FOR AIR DEVICES WITH CEILING TYPES AS INDICATED ON THE ARCHITECTURAL DRAWINGS. C. ALL DUCTWORK DIMENSIONS INDICATED ON PLAN ARE INSIDE CLEAR. REFER TO SPECIFICATIONS FOR ACoustICAL LINING AND INSULATION REQUIREMENTS. D. ALL RETURN AIR OPEN END DUCTS SHALL BE FINISHED WITH 1" X 1" WIRE MESH SCREENING. E. ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE ACCESS DOORS INSTALLED PER THE PROJECT DETAILS AND SPECIFICATIONS. F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO HLTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS. G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS. H. CONTRACTOR SHALL SUPPLY 120V POWER TO ALL LOCATIONS OF BMS PANELS. I. INTERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS WITH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE PROVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS.



JOHN CHRIS MORRIS III, P.E. ALTERNATE OF THIS DOCUMENT EXCEPT BY LICENSED PROFESSIONAL DESIGNER. THIS SEAL IS NOT VALID UNLESS THE DESIGNER'S NAME IS PRINTED HEREIN. DESIGNED BY: JSK/DKR DRAWN BY: JSK CHECKED BY: JCM REVIEWED BY: JCM PROJECT NO: DGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



2 12.08.2023 Addendum No. 2 11.08.2023 For Public Bid No. Date Description Revisions / Issues

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400 Jeffrey D. Venezia, AIA NJ RA AI 00827100

PRELIMINARY NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JMSH

Sheet Name: BUILDING NO. 2 - LEVEL 6 - MECHANICAL DUCTWORK PLAN

Sheet No:

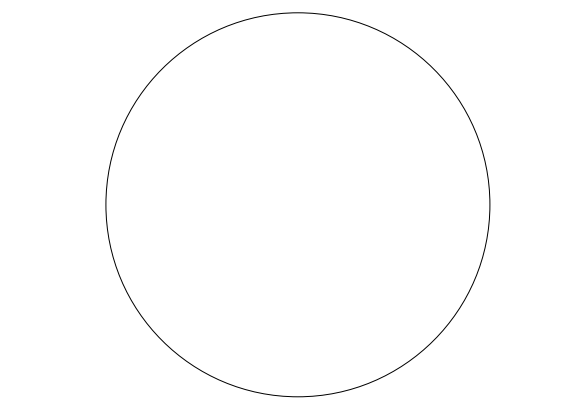
M-116

1 BUILDING NO. 2 - LEVEL 6 - MECHANICAL DUCTWORK PLAN SCALE: 1/8" = 1'-0"



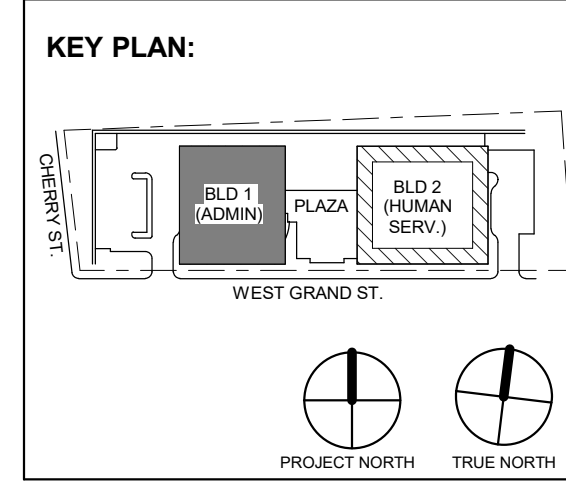
MECHANICAL SYSTEM NOTES

- 1. GENERAL NOTES:
 - A. REFER TO MECHANICAL LEAD SHEET, M-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS THAT PERTAIN TO THE SCOPE OF THIS PROJECT.
 - B. REFER TO DETAIL DRAWINGS FOR MECHANICAL DETAILS PERTAINING TO THIS PROJECT.
 - C. REFER TO BOOK SPECIFICATIONS FOR PROJECT DETAILS AND EXECUTION REQUIREMENTS.
 - D. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND APPURTENANCES IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
- 2. PIPING SYSTEM NOTES:
 - A. CONTRACTOR SHALL FIELD ROUTE FINAL CONNECTIONS TO ALL EQUIPMENT. FINAL CONNECTIONS INCLUDING VALVES AND APPURTENANCES SHALL BE PER PROJECT DETAILS.
 - B. CONTRACTOR SHALL PROVIDE ADDITIONAL ISOLATION VALVES FOR ALL BRANCH PIPING CONTAINING TWO OR MORE VARIABLE AIR VOLUME BOXES. REFER TO SPECIFICATIONS FOR VALVE TYPE AND CHARACTERISTICS BASED ON PIPE SIZE.
 - C. CONTRACTOR SHALL PROVIDE DRAIN VALVES AT MAIN BRANCH ISOLATION VALVES ON EACH FLOOR FOR "MAIN BRANCH ISOLATION."
 - D. CONTRACTOR SHALL PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAIN VALVES AT ALL LOW POINTS IN THE SYSTEM.
 - E. CONTRACTOR SHALL SLOPE ALL CONDENSATE AT A MINIMUM HORIZONTAL SLOPE OF 1% IN THE DIRECTION OF DISCHARGE.
 - F. CONTRACTOR SHALL PROVIDE FIRE-STOPPING EQUIVALENT TO HILTI SYSTEMS OR APPROVED EQUIVALENT AT ALL PENETRATIONS OF WALLS AND FLOORS. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRE-STOPPING REQUIREMENTS.
 - G. CONTRACTOR SHALL UTILIZE PLENUM RATED MATERIALS FOR ALL CEILING PLENUMS BEING UTILIZED AS RETURN AIR PLENUMS.



JOHN CHRIS MORRIS III, P.E.

DESIGNED BY	CHKD BY	CHKD BY	CHKD BY
JSK/DKR	DJR	JSK	JCM
PROJECT No.	DATE	SCALE	
DIG2301	11/08/2023	AS SHOWN	



2	12.08.2023	Addendum No. 2
	11.08.2023	For Public Bid
No.	Date	Description
Revisions / Issues		

DIGroupArchitecture
ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
NJ RA AI 00827100

PRELIMINARY
NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
UNION COUNTY IMPROVEMENT AUTHORITY

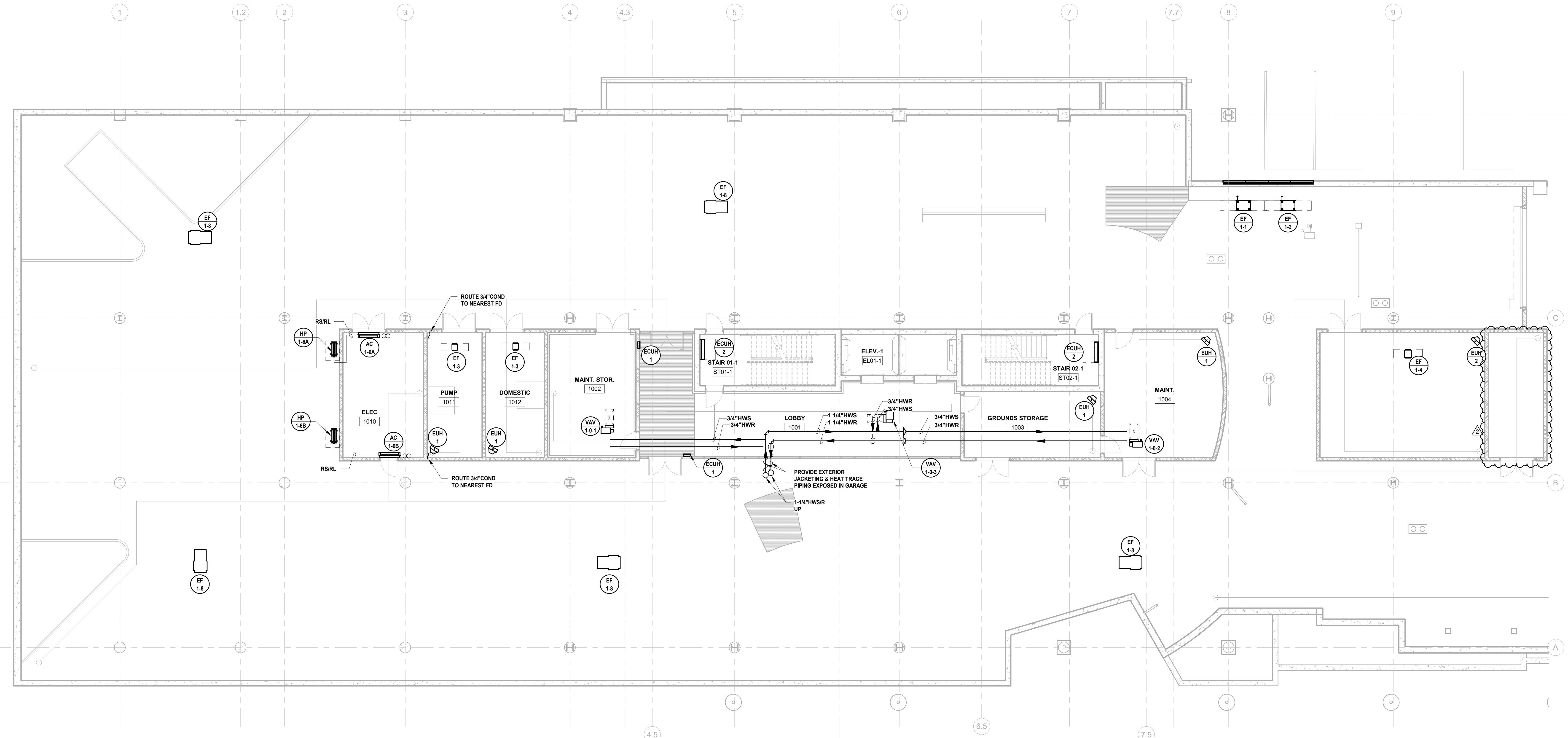
Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 93 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JMSH

Sheet Name:
BUILDING NO. 1 - LEVEL 0 - MECHANICAL PIPING PLAN

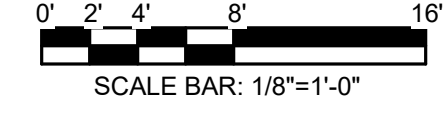
Sheet No:

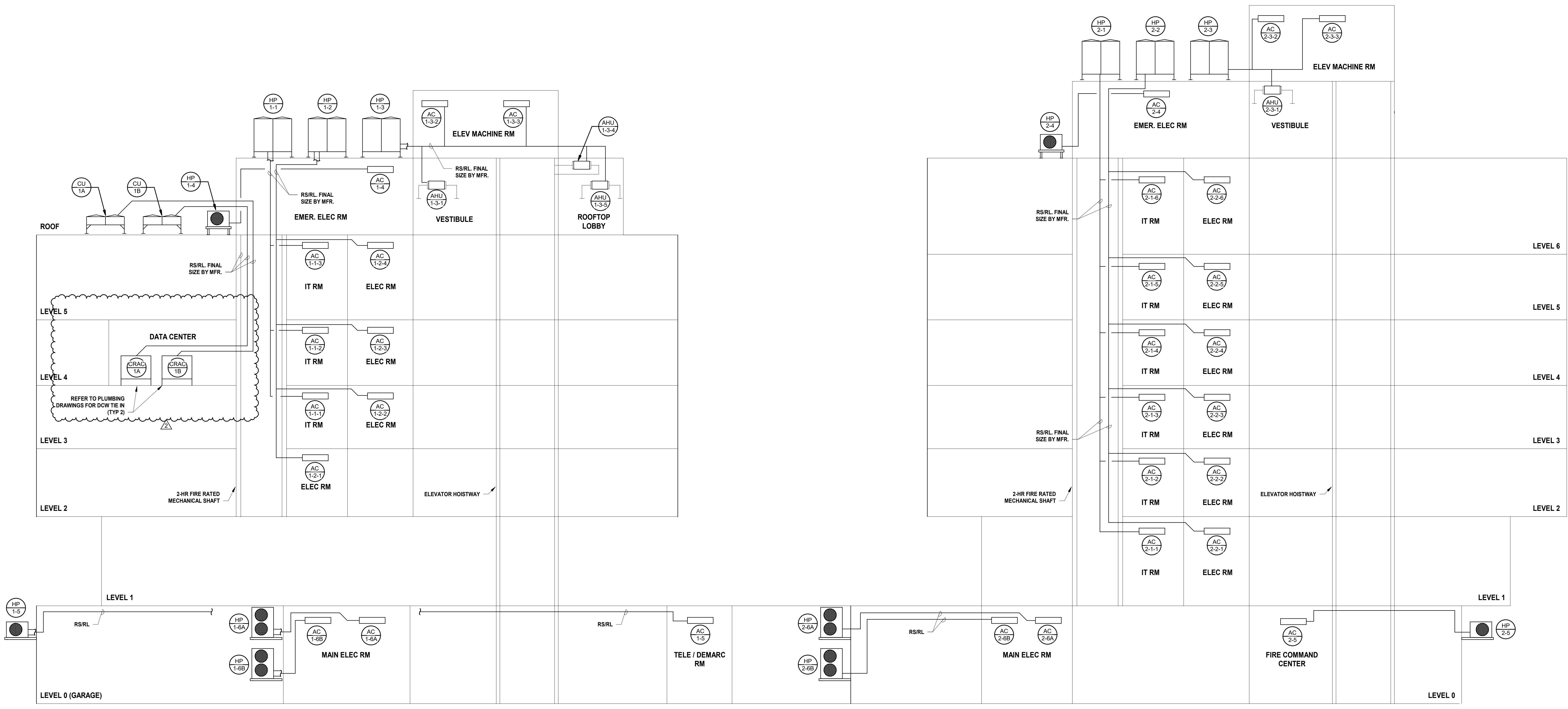
M-201



1 BUILDING NO. 1 - LEVEL 0 - MECHANICAL PIPING PLAN

M-201 SCALE: 1/8" = 1'-0"



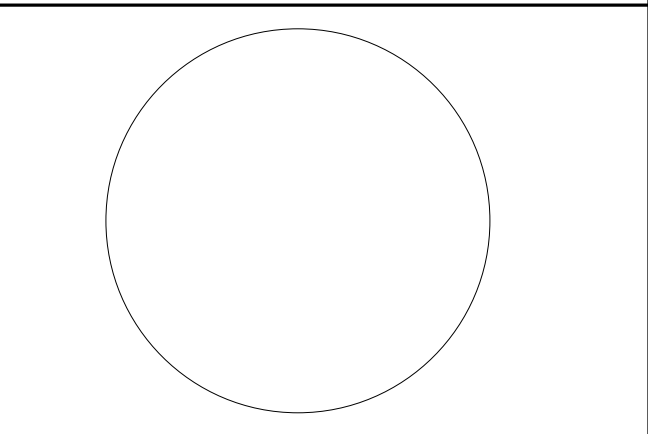


BUILDING NO. 1

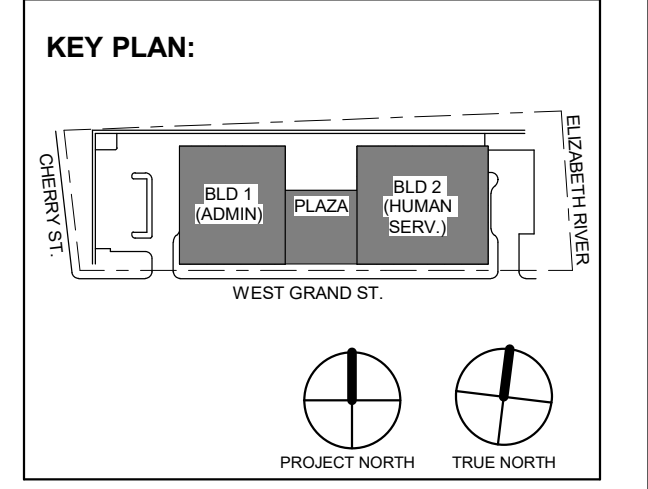
BUILDING NO. 2

**MECHANICAL BUILDING NO. 1 & 2
VRF/SUPPLEMENTAL COOLING
SYSTEM RISER DIAGRAM**
SCALE: N.T.S.

1
M-301



JOHN CHRIS MORRIS III, P.E.
NJ PROFESSIONAL ENGINEER (No. 34888888)
DESIGNED BY: JSK/DKR DRAWN BY: JSK CHECKED BY: JCM REVIEWED BY: JCM
PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



2 12.08.2023 Addendum No. 2
11.08.2023 For Public Bid
No. Date Description
Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
2450 W. Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
NJ RA AI 00827100

PRELIMINARY
NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

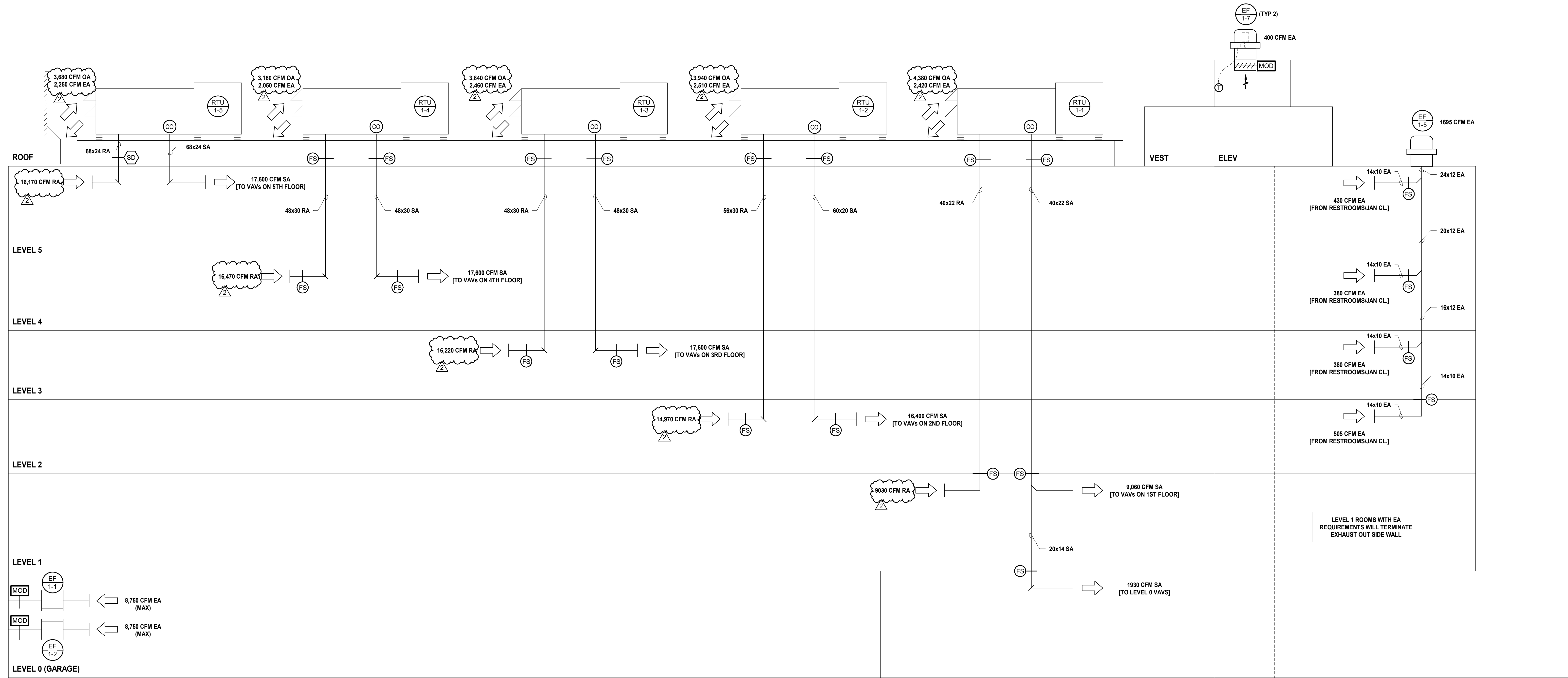
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

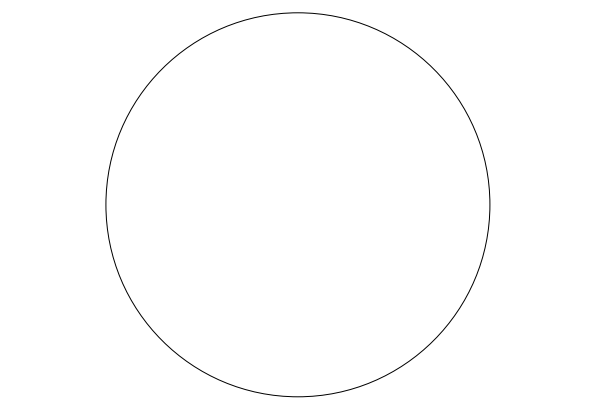
Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JMSH

Sheet Name:
BUILDING NO. 1 & 2 - MECHANICAL VRF RISER DIAGRAM

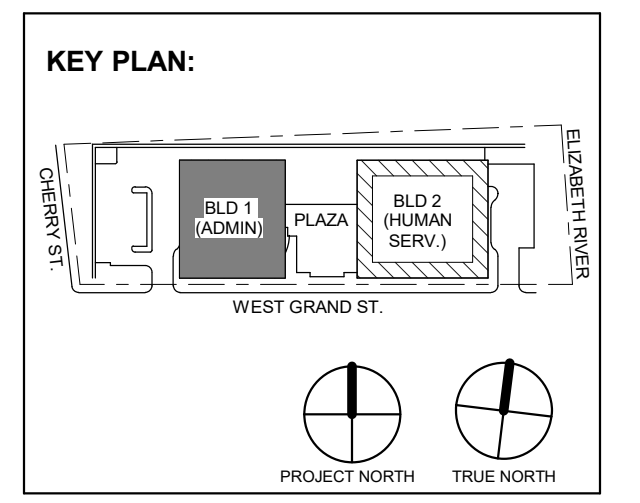
Sheet No:
M-301



1 MECHANICAL BUILDING NO. 1 AIRFLOW RISER DIAGRAM M-303 SCALE: N.T.S.



JOHN CHRIS MORRIS III, P.E. ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT IS PROHIBITED. DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



2 12.08.2023 Addendum No. 2 11.08.2023 For Public Bid

No.	Date	Description

Revisions / Issues

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA NJ RA AI 00827100



DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

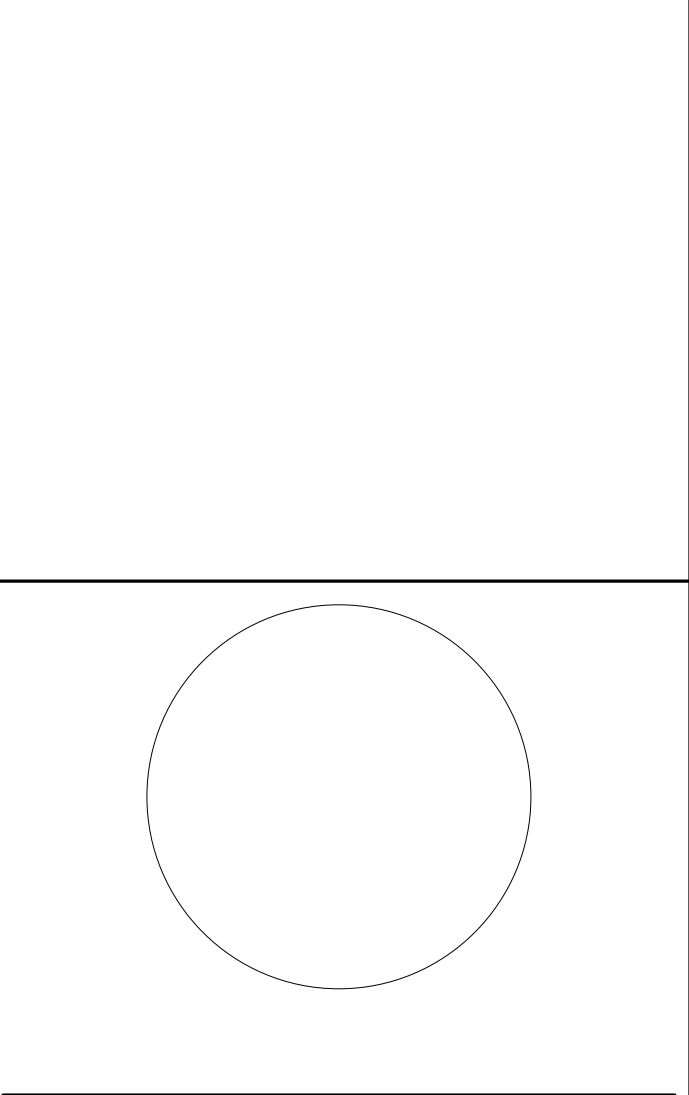
Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1 - MECHANICAL RISER DIAGRAMS

Sheet No:

M-303



JOHN CHRIS MORRIS III, P.E. ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER...

DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM

PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN

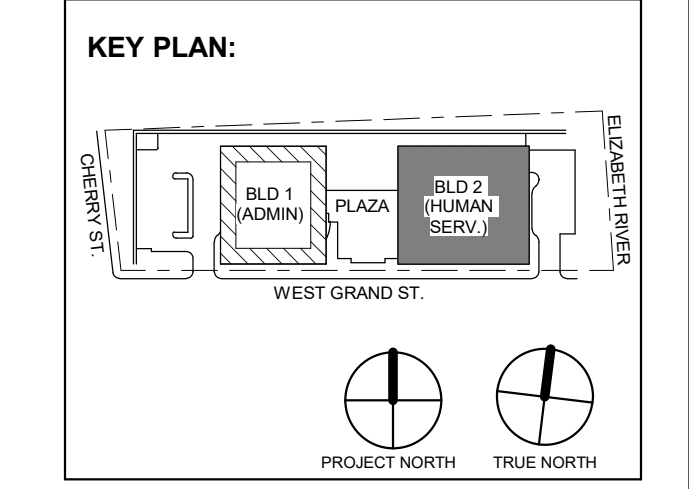


Table with 3 columns: No., Date, Description. Row 1: 2, 12.08.2023, Addendum No. 2. Row 2: 11.08.2023, For Public Bid.

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242

Jeffrey D. Venezia, AIA N.J. RA AI 03827100



DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

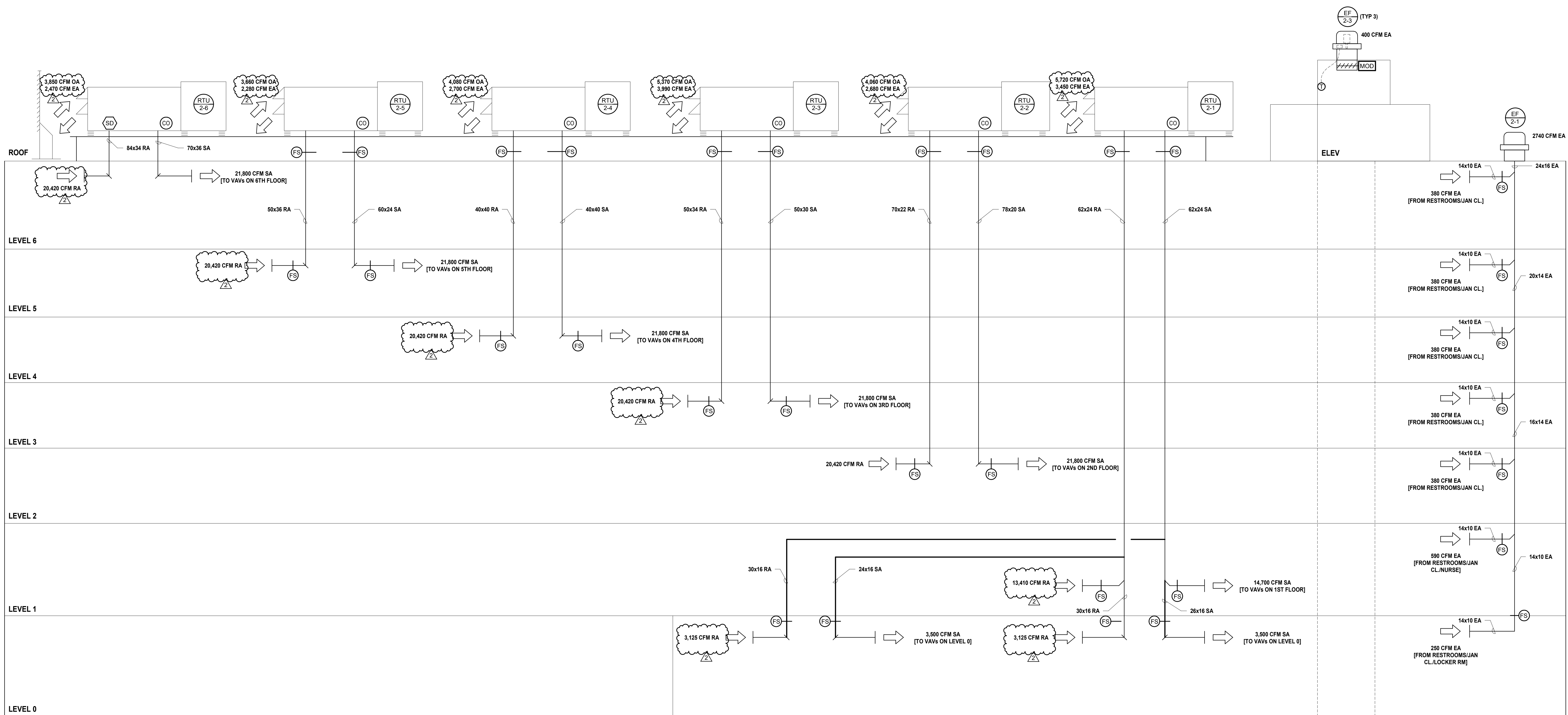
Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH

Sheet Name: BUILDING NO. 2 - MECHANICAL RISER DIAGRAMS

Sheet No: M-306



1 MECHANICAL BUILDING NO. 2 AIRFLOW RISER DIAGRAM SCALE: N.T.S.

ROOFTOP UNIT W/ ENERGY RECOVERY WHEEL SCHEDULE

Table with columns: TAG, SERVICE, SUPPLY AIR (CFM), OUTSIDE AIR (CFM), MIN EXHAUST AIR (CFM), ECONOMIZER EXHAUST AIR (CFM), AHR, PRE-FILTER / FINAL-FILTER INFORMATION, REFRIG TYPE, DIRECT EXPANSION (DX) COOLING COIL, MODULATING NAT GAS-FIRED HEAT EXCH, ENTHALPY WHEEL, FANS, ELECTRICAL DATA (DUAL POINT POWER), SA FAN, DIMENSIONS, BASIS OF DESIGN, NOTES.

- NOTES: 1. PERFORMANCE DATA AS DEPICTED IN THE EQUIPMENT SCHEDULE IS THE "BASIS OF DESIGN" PERFORMANCE REQUIRED TO BE MET BY THE CONTRACTOR SUPPLIED EQUIPMENT. SEE MECHANICAL SPECIFICATIONS FOR ADDITIONAL PERFORMANCE REQUIREMENTS TO BE INCLUDED WITH THE SUPPLIED EQUIPMENT. 2. SEE MECHANICAL SPECIFICATIONS FOR ACCESSORIES AND FURTHER REQUIREMENTS. 3. UNIT SHALL INCLUDE HIGH-TURNDOWN MODULATING GAS HEATING, DX COOLING, HOT GAS REHEAT, ECONOMIZER SECTION, ENERGY RECOVERY, AND POWERED EXHAUST. 4. PROVIDE FACTORY MOUNTED CONTROLLER WITH BACNET INTERFACE FOR INTEGRATION INTO BUILDING BMS. 5. UNIT SHALL HAVE A DUCT MOUNTED SMOKE DETECTOR, FURNISHED BY THE ELECTRICAL CONTRACTOR, SENSING IN THE RETURN DUCT UPSTREAM OF ANY FILTERS, ETC. PER IMC 2021. 6. REFER TO SPECIFICATIONS FOR ADDITIONAL SENSORS AND THEIR RESPECTIVE LOCATIONS (UNIT OR REMOTE MOUNTED). 7. ALL PIPING SHALL BE SCHEDULE 40, UNLESS OTHERWISE NOTED. 8. PROVIDE FACTORY NON-FUSED DISCONNECT SWITCH TO EACH CIRCUIT. 9. PROVIDE GFCI CONVENIENCE RECEPTACLE (FACTORY POWERED). 10. PROVIDE INSULATED PIPING WITH VIBRATION ISOLATION MOUNTS TO ATTACH TO SUPPORT STEEL DUNNAGE. COORDINATE SUPPLY AND RETURN OPENINGS. 11. 5-YEAR PARTS WARRANTY ON EQUIPMENT. STAINLESS STEEL HEAT EXCHANGER AND SEPARATOR. 12. DUAL POINT POWER. 1ST CIRCUIT POWERS COMPRESSOR & CONDENSER FANS. 2ND CIRCUIT POWERS SUPPLY FAN, CONTROLS, EXHAUST/RETURN FANS, HEAT, HEAT WHEEL, PHASE & BROWN OUT PROTECTION.

GAS BOILER SCHEDULE

Table with columns: SYMBOL, LOCATION, SERVICE, TYPE, NATURAL GAS (GAS PRESSURE, MIN/MAX, INPUT, OUTPUT, TURNDOWN, CONN. SIZE, EXH. DIA., INTAKE DIA.), WATER OUTPUT (GPM, LWT, EWT, PD FT., MIN FLOW), SUPPLY RETURN CONNECTION SIZE, RV SETTING, ELECTRIC DATA (V/PHHZ, FLA), OPER WEIGHT, BASIS OF DESIGN (MANUF., MODEL NUMBER), NOTES.

- NOTES: 1. SEE MECHANICAL SPECIFICATIONS FOR ACCESSORIES AND FURTHER REQUIREMENTS. 2. PROVIDE MANUFACTURER'S FACTORY MOUNTED & TESTED IRI GAS TRAIN. 3. HEATING SYSTEM FLUID MEDIUM SHALL BE 100% WATER. 4. PROVIDE ONE 100 PSI PRESSURE RELIEF VALVE FOR EACH BOILER. 5. PROVIDE HORIZONTAL SEALED COMBUSTION INTAKE. PROVIDE ONE INTAKE PER BOILER. INSTALL AS PER MFG'S INSTALLATION GUIDE. 6. INTERFACE TO BAS WITH BACNET GATEWAY (GATEWAY BY BOILER MANUFACTURER). 7. BOILER SEQUENCING TO BE DONE VIA AERCO BST SEQUENCING TECHNOLOGY (CONTROLLER INTEGRATED INTO BOILER). CONTROLLER BY BOILER MANUFACTURER. 8. PROVIDE IM-40 CONDENSATE NEUTRALIZING KIT FOR EACH BOILER. 9. PROVIDE ENHANCED PLUMBING FOR 2-ROW ROOF. 10. PROVIDE DOUBLE WALL 2" X 4" FOR BOILER VENTING. 11. PROVIDE INTERLOCKS FOR GAS DETECTION AND BREAK GLASS STATION.

PUMP SCHEDULE

Table with columns: SYMBOL, SERVICE, LOCATION, TYPE, GPM, HEAD (FT), RPM, MOTOR BHP, MOTOR HP, ELECTRICAL (V/PHHZ), OPER WEIGHT, BASIS OF DESIGN (MANUFACTURER, MODEL NUMBER), NOTES.

- NOTES: 1. SEE MECHANICAL DETAILS AND SPECIFICATIONS FOR ACCESSORIES AND FURTHER REQUIREMENTS. 2. PROVIDE PREMIUM EFFICIENCY MOTORS FOR ALL PUMPS. 3. ALL PUMPS SHALL HAVE VFD'S W/ BYPASS & DISCONNECT AND INVERTER DUTY MOTORS. 4. VFD'S SHALL BE EQUIPPED WITH BACNET CARDS. 5. HWP IN EACH BLDG SHALL RUN LEAD LAG. 6. PROVIDE SUCTION DIFFUSER FOR ALL PUMPS. 7. INTERLOCK PUMPS WITH BOILER CONTROL PANEL.

EXPANSION TANK SCHEDULE

Table with columns: SYMBOL, LOCATION, HORIZONTAL OR VERTICAL, SERVICE, TYPE, TANK VOLUME (GAL), SIZE DIA x L, SYSTEM CONNECTION SIZE, OPER WEIGHT, BASIS OF DESIGN (MANUFACTURER, MODEL NUMBER), NOTES.

- NOTES: 1. PRESSURIZE EXPANSION TANK TO MATCH PSI OF MAKE-UP WATER PRESSURE REDUCING VALVE PSI SETPOINT.

CABINET UNIT HEATER SCHEDULE (HOT WATER)

Table with columns: SYMBOL, LOCATION, TYPE, FAN, HOT WATER (CFM, HP, MBH, GPM, EWT, LWT, PD (FT HD), EA, LAT), ELECTRICAL (V/PHHZ, MCA), WEIGHT (LBS), BASIS OF DESIGN (MANUF., MODEL NUMBER), NOTES.

- NOTES: 1. PROVIDE DIRECT DRIVE, 3-SPEED EC MOTOR. 2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. 3. PROVIDE PIPING PACKAGE WITH 2-WAY CONTROL VALVE. 4. PROVIDE WALL MOUNTED THERMOSTAT WITH TAMPERPROOF, LOCKABLE ENCLOSURE. 5. MANUFACTURER PROVIDED DISCONNECT SWITCH. 6. PROVIDE ALL MOUNTING BRACKETS TO MOUNT IN CEILING. 7. COORDINATE FINAL FINISH COLOR WITH ARCHITECT. 8. PROVIDE HIGH CAPACITY, 2-ROW COIL.

ELECTRIC CABINET UNIT HEATER SCHEDULE

Table with columns: SYMBOL, LOCATION, TYPE, CFM, CAPACITY (MBH), KW, NO. OF STEPS, V/PHHZ, WEIGHT (LBS), BASIS OF DESIGN (MANUFACTURER, MODEL NUMBER), NOTES.

- NOTES: 1. SEE MECHANICAL SPECIFICATIONS FOR FURTHER REQUIREMENTS. 2. PROVIDE WITH PERMANENTLY LUBRICATED, EC FAN MOTOR. 3. PROVIDE LOCALLY CONTROLLED SPST THERMOSTAT (FIELD MOUNTED) FOR EACH HEATER. 4. MANUFACTURER PROVIDED DISCONNECT SWITCH. 5. LOUVERED FRONT GRILLE.

ELECTRIC UNIT HEATER SCHEDULE

Table with columns: SYMBOL, LOCATION, CFM, KW, FLA, V/PHHZ, WEIGHT (LBS), BASIS OF DESIGN (MANUFACTURER, MODEL NUMBER), NOTES.

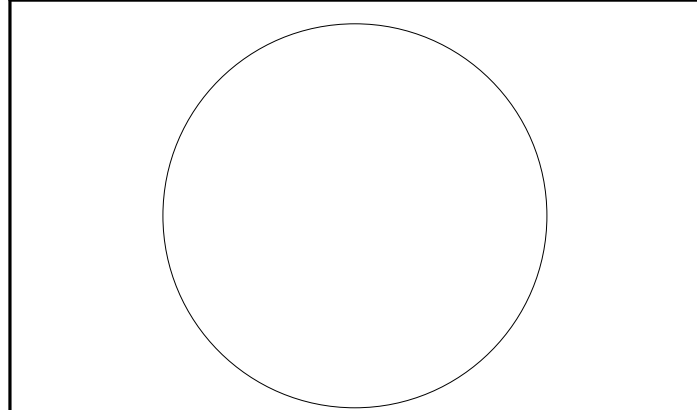
- NOTES: 1. DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR. 2. PROVIDE WITH WALL MOUNTED 24V T-STAT. 3. PROVIDE WITH WALL/CEILING MOUNTING BRACKET. 4. PROVIDE WITH CONTROLS TRANSFORMER.

AIR SEPARATOR SCHEDULE

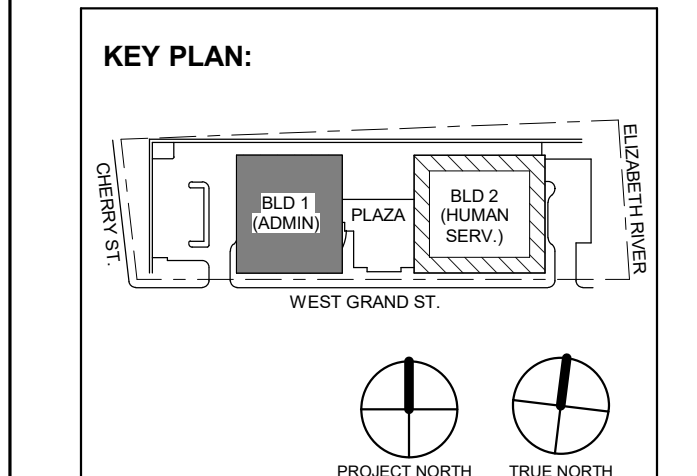
Table with columns: SYMBOL, LOCATION, SERVICE, GPM, TYPE, INLET (IN), OUTLET (IN), PD (FT HD), STRAINER (Y/N), FLOODED WEIGHT (LBS), BASIS OF DESIGN (MANUFACTURER, MODEL NUMBER), NOTES.

- NOTES: 1. GENERAL: CENTRIFUGAL TYPE W/ TANGENTIAL INLET AND OUTLET. 2. PROVIDE 150 PSI FLANGE CONNECTIONS FOR INLET AND OUTLET. 3. PROVIDE INSULATION FOR AIR SEPARATOR; INSULATE W/ SAME THICKNESS AS PIPE INSULATION. 4. SEE DWGS AND SPECS FOR ADDTL INFORMATION.

H2M Associates, Inc. 119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054 862.207.5900 www.h2m.com NJ Landscape Architecture Certificate No.: 21MH00010330 NJ Engineering Certificate of Authorization No.: 24GA28019100



JOHN CHRIS MORRIS III, P.E. ALTERNATE OF THIS DOCUMENT ACCEPTED BY LICENSED PROFESSIONAL ENGINEER. DESIGNER BY: JSK/DKR DCR JSK JCM PROJECT NO: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W. Hunting Park Ave. • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA NJ RA #A1 00827100

PRELIMINARY NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 91 & 93 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JSK/AVPC Checked By: JM/SH

Sheet Name: BUILDING NO. 1&2 - MECHANICAL SCHEDULES (1 OF 5)

Sheet No: M-401

EXHAUST FAN SCHEDULE

Table with columns: SYMBOL, SERVICE, LOCATION, CFM, ESP, MOTOR HP, FAN RPM, MOTOR FLA, ELECTRICAL, CONTROLLED BY, OPER WEIGHT (LBS), BASIS OF DESIGN, NOTES. Lists various exhaust fans for different building areas.

NOTES:

- 1. PROVIDE PREMIUM EFFICIENCY MOTORS FOR ALL FANS
2. PROVIDE 14" INSULATED ROOF CURB FOR ROOFTOP EXHAUST FANS
3. PROVIDE VCD-23 PARALLEL BLADE MOTORIZED DAMPER...

AIR TERMINAL DEVICE SCHEDULE

Table with columns: SYMBOL, SERVICE, TYPE, CFM RANGE, NECK SIZE, N.C, FACE OVERALL DIMENSIONS WxL (IN.), BASIS OF DESIGN, NOTES. Lists air terminal devices for various rooms.

NOTES:

- 1. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
2. MOUNTING FRAME TYPE SHALL BE COORDINATED WITH THE CEILING/WALL CONSTRUCTION TYPE.
3. FLEXIBLE DUCTS CONNECTING TO THE DIFFUSERS SHALL BE FULL SIZE OF NECK DIAMETER AND NOT EXCEED 4' IN LENGTH.

COMPUTER ROOM AIR CONDITIONING UNIT

Table with columns: SYMBOL, LOCATION, SUPPLY AIR FAN, ELECTRICAL, WEIGHT, BASIS OF DESIGN, CONDENSING UNIT, COOLING, SCR ELECTRIC REHEAT COIL, CANNISTER HUMIDIFIER, REMARKS. Details specifications for computer room air conditioning.

NOTES:

- 1. ELECTRICAL REQUIREMENTS FOR ELECTRIC REHEAT ARE INCLUDED IN MCA AND MOP FOR THE AIR HANDLING UNIT.
2. SEE SPECIFICATION SHEETS FOR EQUIPMENT SPECIFICATIONS AND ACCESSORIES.
3. UNIT SHALL BE SUPPLIED WITH INTEGRAL CONTROLLER WITH BACNET COMMUNICATION CARD...

STAIRWELL PRESSURIZATION FAN SCHEDULE

Table with columns: SYMBOL, SERVICE, LOCATION, CFM, ESP, FAN RPM, MOTOR HP, ELECTRICAL, OPER WEIGHT (LBS), BASIS OF DESIGN, NOTES. Lists stairwell pressurization fans.

NOTES:

- 1. PROVIDE INLET SCREEN
2. MOUNT ON NEW ROOF MOUNTED EQUIPMENT SUPPORT RAILS WITH HOUSED SPRING ISOLATORS
3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH...

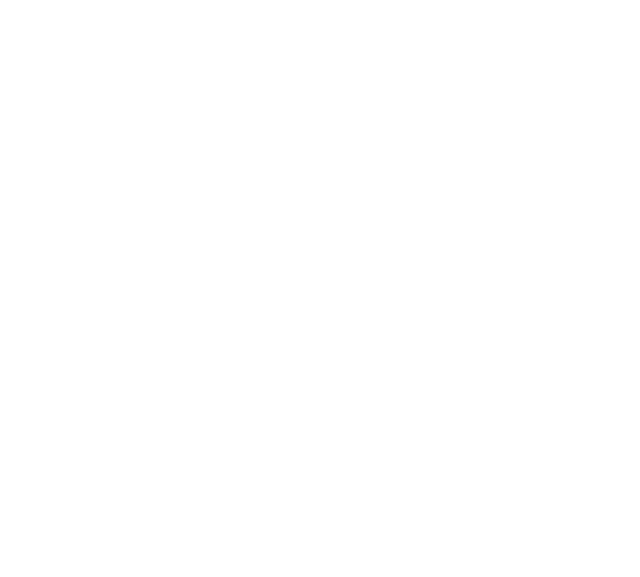
HEAT PUMP SCHEDULE

Table with columns: UNIT, MFR, MODEL, STYLE, INDOOR UNIT, REFRIGERANT, SUPPLY AIRFLOW CFM, TOTAL COOLING CAP, TOTAL HEATING CAP, WEIGHT, UNIT, MODEL, EFFICIENCY, ELECTRICAL, WEIGHT, NOTES. Lists heat pump units for various rooms.

NOTES:

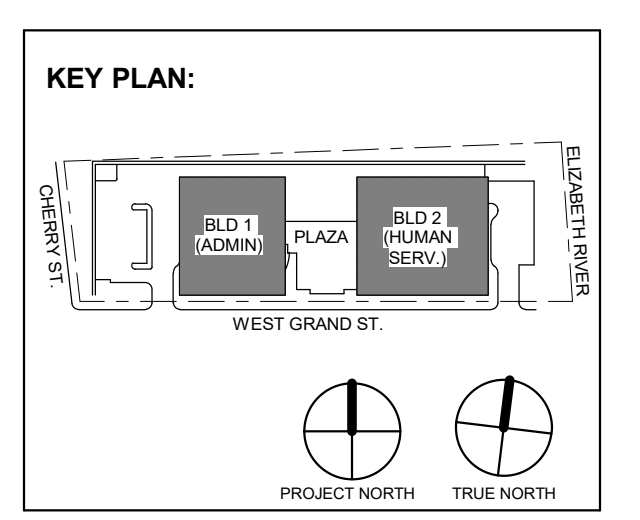
- 1. PROVIDE ELECTRICAL DISCONNECT SWITCH - INDOOR AND OUTDOOR UNITS. INDOOR UNIT IS POWERED BY OUTDOOR UNIT.
2. PROVIDE ALL INTERCONNECTING CONTROL WIRE, REFRIGERANT PIPING, BETWEEN INDOOR AND OUTDOOR UNITS.
3. PROVIDE INDOOR UNIT WITH WALL MOUNTED TEMPERATURE CONTROLS...

H2M Associates, Inc.
119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054



JOHN CHRIS MORRIS III, P.E.
ALTERNATE OF THE DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER...
DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM

PROJECT NO: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



2 12/08/2023 Addendum No. 2
11/08/2023 For Public Bid
No. Date Description
Revisions / Issues

DIGroupArchitecture
ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242

Jeffrey D. Venezia, AIA
NJ RA AI 00827100

PRELIMINARY
NOT FOR CONSTRUCTION

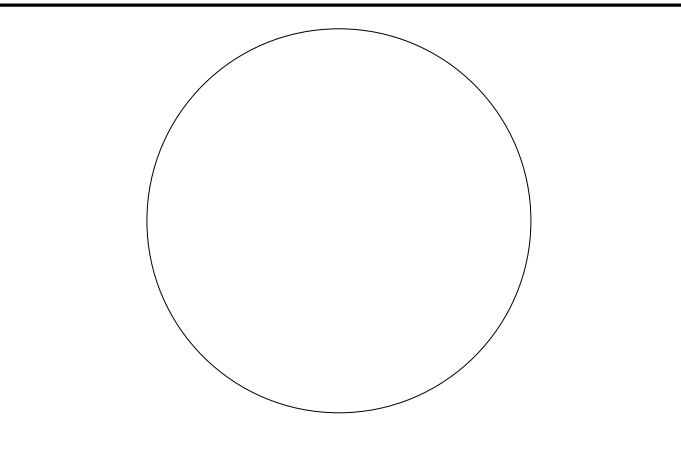
DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
UNION COUNTY IMPROVEMENT AUTHORITY
Project:
UNION COUNTY GOVERNMENT COMPLEX

Drawing Information:
Project No: 20.072
Date: 11/08/2023
Drawn By: JSK/AJPC
Checked By: JM/SH

Sheet Name:
BUILDING NO. 1&2 - MECHANICAL SCHEDULES (2 OF 5)

Sheet No:
M-402



JOHN CHRIS MORRIS III, P.E. LICENSED PROFESSIONAL ELECTRICAL ENGINEER (LICENSE NO. 100000000)

DESIGNED BY: JSK/CKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM

PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN

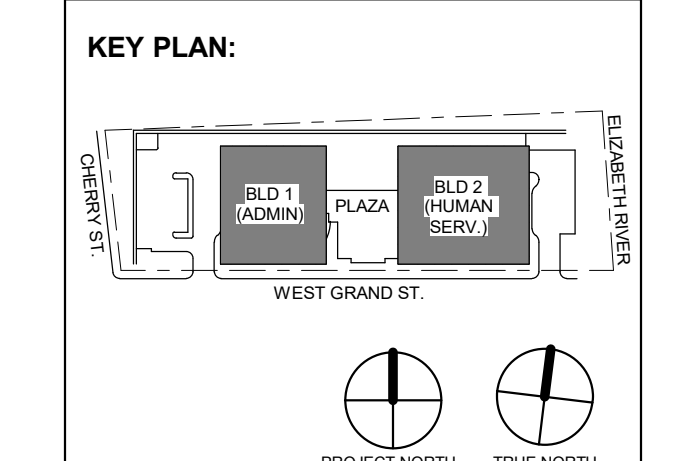


Table with 2 columns: No., Date, Description. Row 1: 2, 12/08/2023, Addendum No. 2. Row 2: 11/08/2023, For Public Bid.

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W. Hunting Park Ave. • Philadelphia, PA 19122 • T: 215.634.2400

Jeffrey D. Venezia, AIA NJ RA #1 00827100



DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11/08/2023 Drawn By: JSK/AVPC Checked By: JM/SK

Sheet Name: BUILDING NO. 1&2 - MECHANICAL SCHEDULES (3 OF 5)

Sheet No:

M-403

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER, BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 1-0-1 through VAV 1-2-23.

- NOTES: 1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER. DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT. 2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH. 3. MANUFACTURER PROVIDED SOUND ATTENUATION. 4. 2-WAY VALVE PACKAGE, MATCH EXISTING BMS MANUFACTURER AND FACTORY INSTALL ON VAV BOX. 5. VERIFY COIL HANDEDNESS IN FIELD.

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER, BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 1-3-1 through VAV 1-3-27.

- NOTES: 1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER. DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT. 2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH. 3. MANUFACTURER PROVIDED SOUND ATTENUATION. 4. 2-WAY VALVE PACKAGE, MATCH EXISTING BMS MANUFACTURER AND FACTORY INSTALL ON VAV BOX. 5. VERIFY COIL HANDEDNESS IN FIELD.

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER, BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 1-4-1 through VAV 1-4-27.

- NOTES: 1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER. DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT. 2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH. 3. MANUFACTURER PROVIDED SOUND ATTENUATION. 4. 2-WAY VALVE PACKAGE, MATCH EXISTING BMS MANUFACTURER AND FACTORY INSTALL ON VAV BOX. 5. VERIFY COIL HANDEDNESS IN FIELD.

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER, BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 1-5-1 through VAV 1-5-29.

- NOTES: 1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER. DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT. 2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH. 3. MANUFACTURER PROVIDED SOUND ATTENUATION. 4. 2-WAY VALVE PACKAGE, MATCH EXISTING BMS MANUFACTURER AND FACTORY INSTALL ON VAV BOX. 5. VERIFY COIL HANDEDNESS IN FIELD.

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER (V/PH/Hz), BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 2-5-1 through VAV 2-5-36.

VAV NOTES:

- 1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER, DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT.
2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH
3. MANUFACTURER PROVIDED SOUND ATTENUATION
4. 2-WAY VALVE PACKAGE, MATCH EXISTING BMS MANUFACTURER AND FACTORY INSTALL ON VAV BOX.
5. VERIFY COIL HANDEDNESS IN FIELD

VARIABLE AIR VOLUME (VAV) TERMINAL UNIT SCHEDULE

Table with columns: SYMBOL, RTU, CFM (COOL MAX, COOLING/HEATING, HEAT MAX), HOT WATER COIL (MIN NET CAP, EAT, LAT, GPM, EWT, LWT), CONTROL POWER (V/PH/Hz), BASIS OF DESIGN (MNF, MODEL NUMBER), NOTES. Rows include VAV 2-6-1 through VAV 2-6-42.

VAV NOTES:

- 1. PROVIDE ALL VAV BOXES W/ CONTROLS TRANSFORMER, DDC CONTROL VIA EXISTING BMS. INTERLOCK WITH OPERATION OF EXISTING ROOFTOP UNIT.
2. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH
3. MANUFACTURER PROVIDED SOUND ATTENUATION
4. 2-WAY VALVE PACKAGE, MATCH EXISTING BMS MANUFACTURER AND FACTORY INSTALL ON VAV BOX.
5. VERIFY COIL HANDEDNESS IN FIELD

VRF SYSTEM - HEAT PUMP SCHEDULE

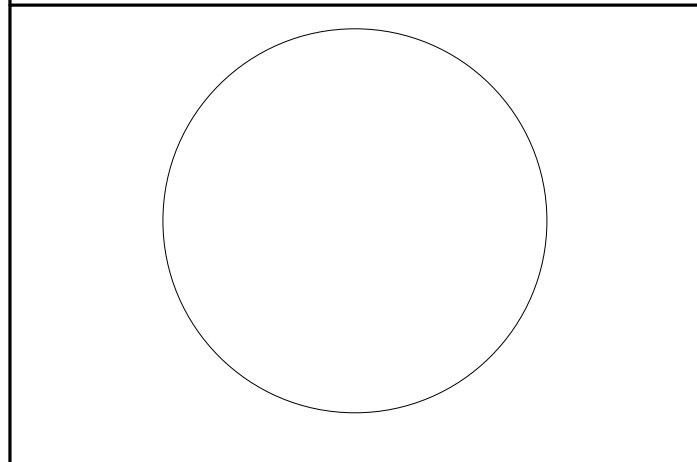
Table with columns: UNIT, MFR, MODEL, STYLE, SERVING, SUPPLY AIRFLOW CFM (HML), OUTSIDE AIRFLOW CFM, EXTERNAL STATIC PRESSURE (IN W.C.), TOTAL COOLING CAP (MBH), SENSIBLE COOLING CAP (MBH), TOTAL HEATING CAP (MBH), VPH/Hz, MCA, MOC(P), WEIGHT (LBS), UNIT, MODEL, REFR CHARGE, RATED COOLING CAPACITY (MBH), RATED HEATING CAPACITY (MBH), EFFICIENCY (EER, IEER, COP), COP17, VPH/Hz, MCA, MOC(P), WEIGHT (LBS), NOTES. Rows include AC 1-1-1 through AC 2-3-3 and AHU 1-3-1 through AHU 1-3-5.

NOTES:

- 1. PROVIDE ELECTRICAL DISCONNECT SWITCH - INDOOR AND OUTDOOR UNITS
2. PROVIDE ALL INTERCONNECTING CONTROL WIRE, REFRIGERANT PIPING, AND OUTDOOR UNITS.
3. PROVIDE INDOOR UNIT WITH WALL MOUNTED TEMPERATURE CONTROLS. PROVIDE TAMPERPROOF ENCLOSURES FOR ALL THERMOSTATS LOCATED IN HIGH TRAFFIC AREAS PRONE TO DAMAGE AND TAMPERING.
4. PROVIDE LOW AMBIENT COOLING KITS.
5. PROVIDE EQUIPMENT SUPPORTS PER OUTDOOR UNIT. REFER EQUIPMENT SUPPORT DETAIL.
6. ALL DUCTED UNITS SHALL BE PROVIDED WITH MERV 8 FILTERS W/ REPLACEMENT FILTERS PER UNIT. PROVIDE WASHABLE FILTERS FOR WALL MOUNT TYPE UNITS
7. PROVIDE DRAIN PAN LEVEL SENSORS IN EVAPORATOR DRAIN PANS. INSTALL STAINLESS STEEL SECONDARY DRAIN PAN WITH FLOAT SWITCH UNDER ALL DUCTED UNITS, AND ANY UNITS POSITIONED OVER ELECTRICAL EQUIPMENT. FLOAT SWITCH TO SHUT DOWN UNIT AND ALARM BMS UPON WATER DETECTION.
8. PROVIDE FACTORY MOUNTED BACNET CONTROLLERS PER UNIT. ALL UNITS SHALL BE TIED INTO THE BUILDING MANAGEMENT SYSTEM.
9. REFRIGERANT CHARGE SHOWN IS BASED ON DAIKIN SELECTION SOFTWARE. PROVIDE TOTAL REFRIGERANT CHARGE OF SYSTEM ON SUBMITTAL.

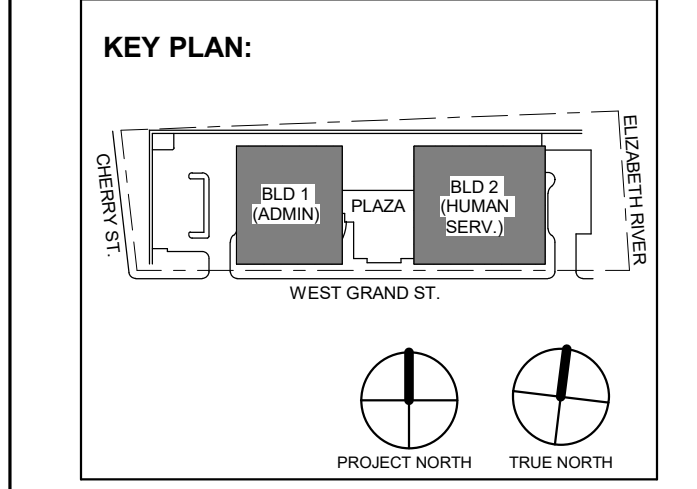
H2M Associates, Inc.
119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054
862.207.8900 www.h2m.com

NJ Landscape Architecture Certificate No.: 21MH00010330
NJ Engineering Certificate of Authorization No.: 24GA26019100



JOHN CHRIS MORRIS III, P.E.
NJ PROFESSIONAL ENGINEER (No. 34888)

DESIGNED BY: JSK/DKR DRAWN BY: DKR CHECKED BY: JSK REVIEWED BY: JCM
PROJECT No: DIGA2301 DATE: 11/08/2023 SCALE: AS SHOWN



DIGroupArchitecture
ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
2450 W. Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3000

Jeffrey D. Venezia, AIA
NJ RA AI 00827100

PRELIMINARY
NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX
81 & 93 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VJPC
Checked By: JM/SH

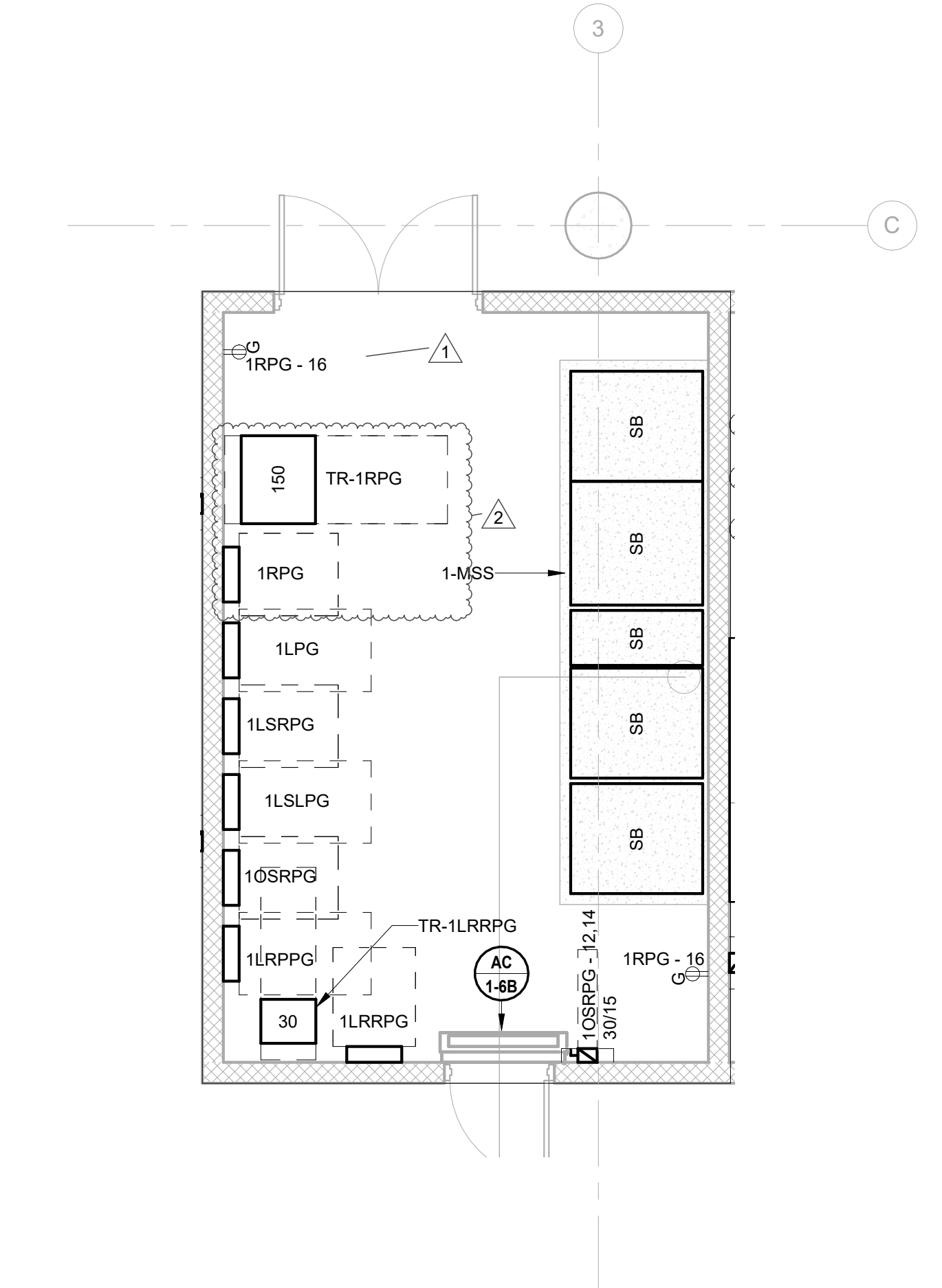
Sheet Name: BUILDING NO. 1&2 - MECHANICAL SCHEDULES (5 OF 5)

Sheet No: M-405

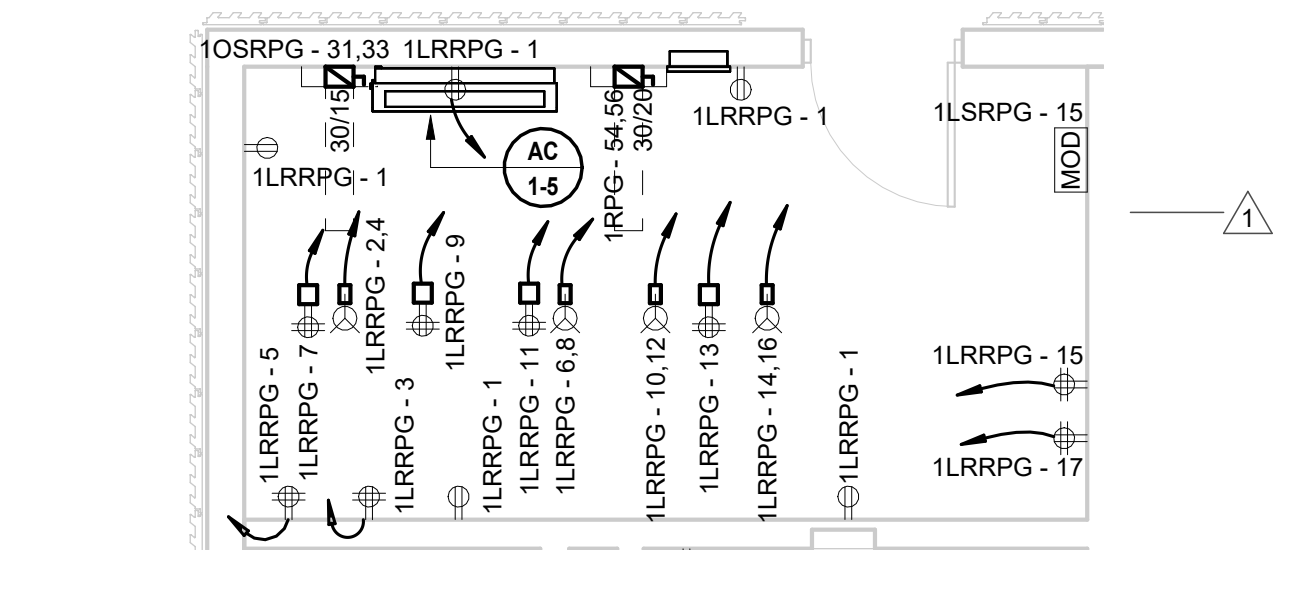
H2M Associates, Inc.
119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054
862.207.5900 www.h2m.com
NJ Landscape Architecture Certificate No.: 246A28019300
NJ Engineering Certificate of Authorization No.: 246A28019100

JOHN CHRIS MORRIS III, P.E.
ALTERNATE OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS LEGAL.
THIS DRAWING AND ALL CONTAINED INFORMATION ARE THE PROPERTY OF H2M ASSOCIATES, INC.

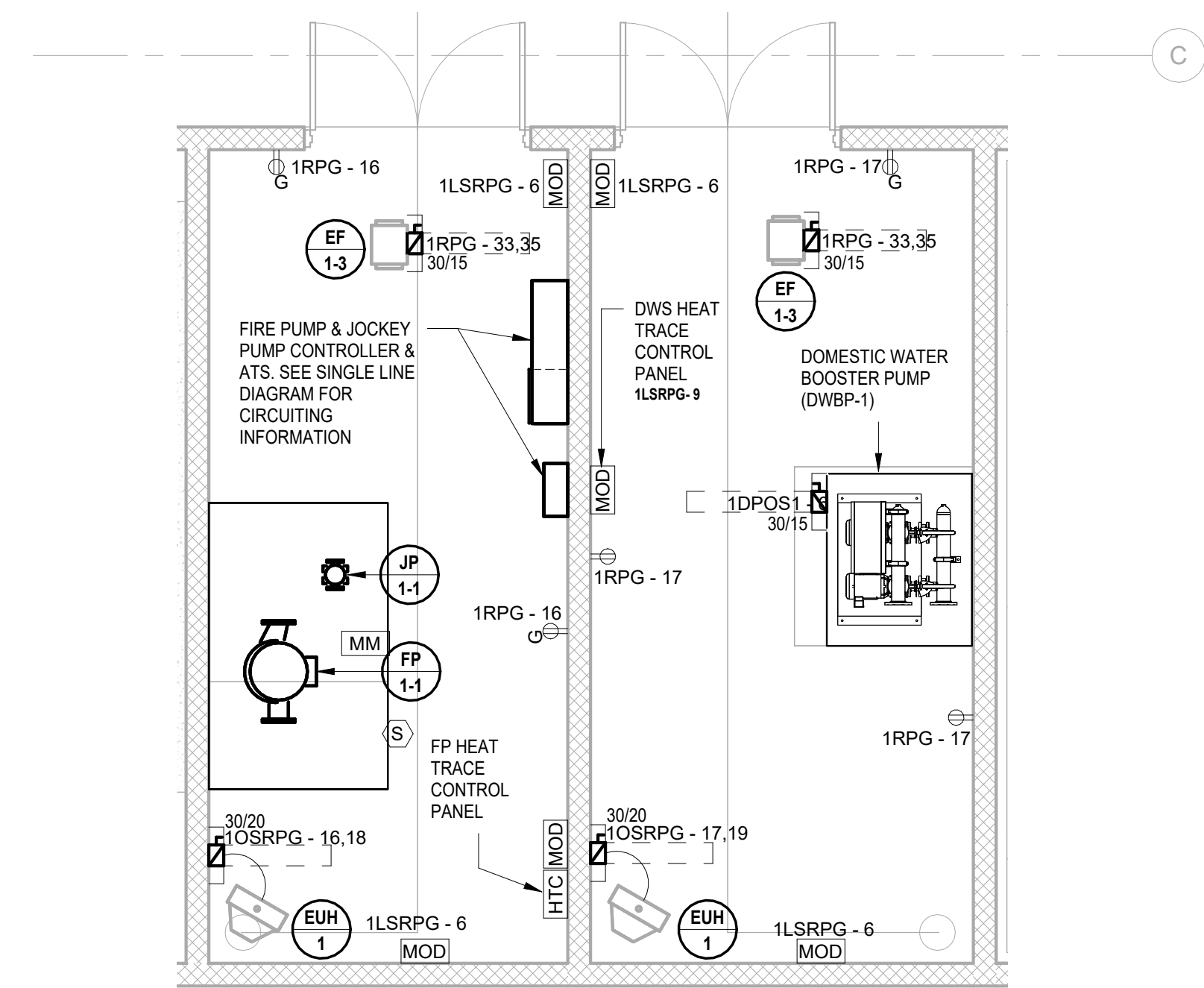
Table with columns: DESIGNED BY, DRAWN BY, CHECKED BY, REVIEWED BY, PROJECT No., DATE, SCALE. Values include J.J.L., J.J.L., S.G.S., J.C.M., DIGA2301, 11/08/2023, AS SHOWN.



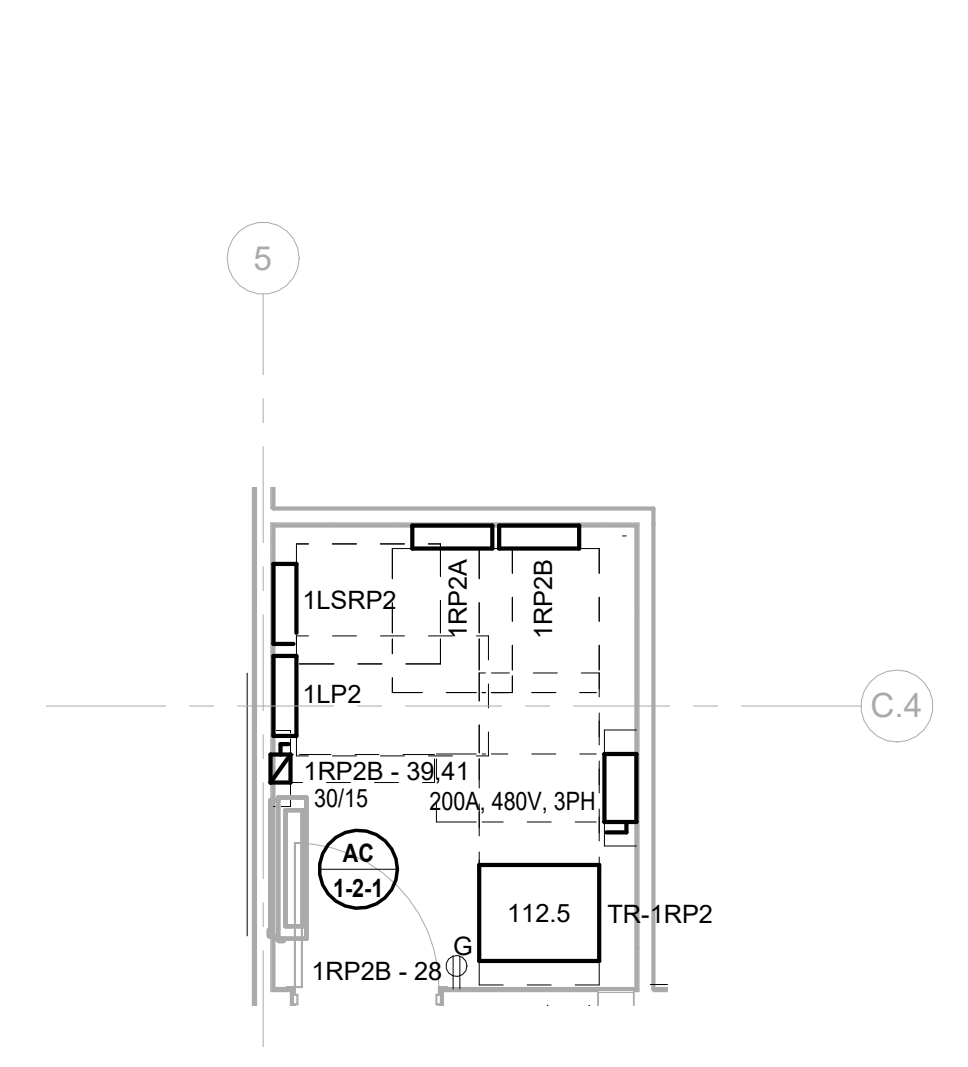
1 BUILDING NO.1 - ENLARGED ELECTRICAL ROOM 1010
E-301 SCALE: 1/4" = 1'-0"



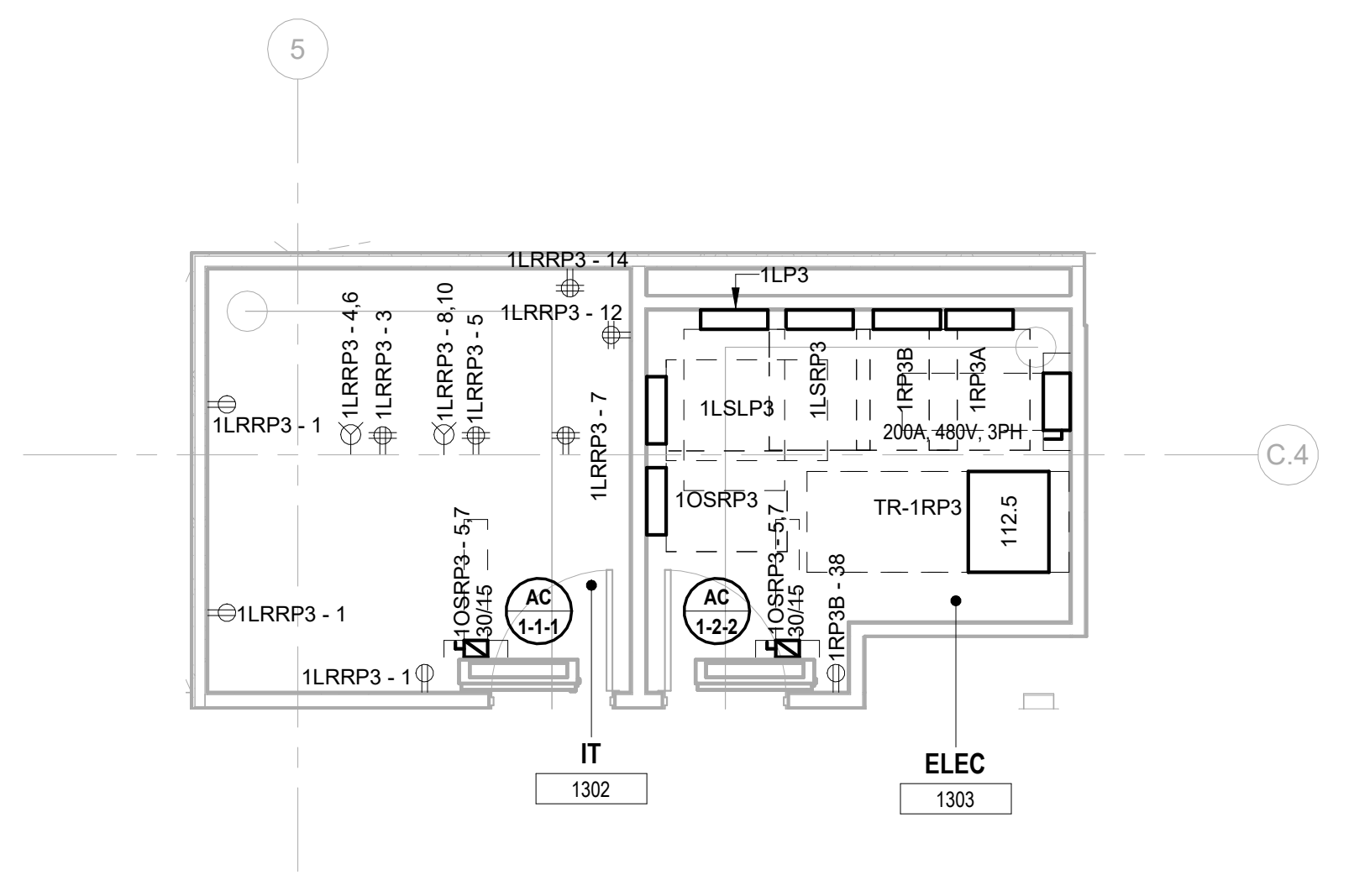
2 BUILDING NO.1 - LEVEL 1 - ELECTRICAL POWER PLAN - DEMARC. ROOM
E-301 SCALE: 1/4" = 1'-0"



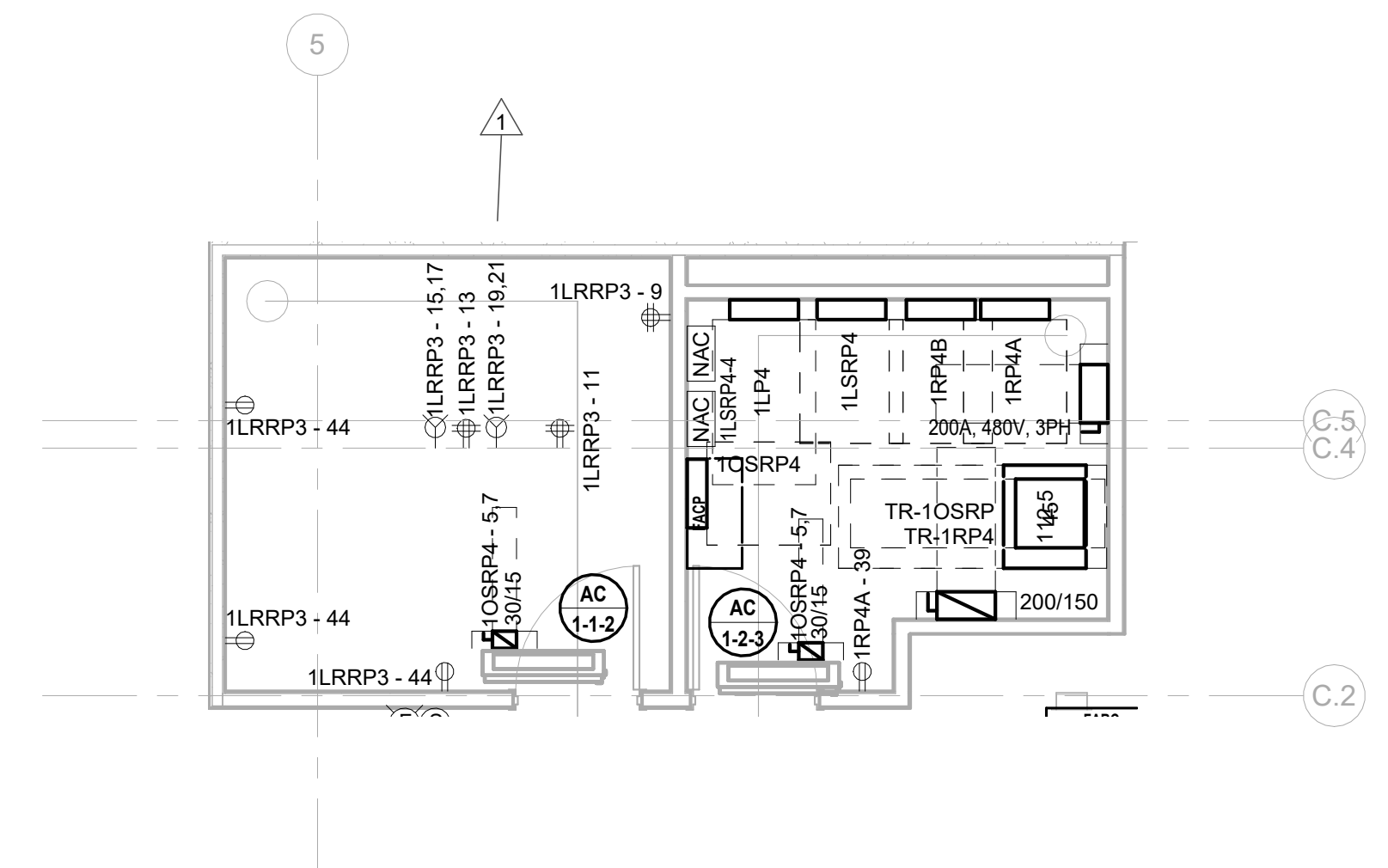
3 BUILDING NO.1 - ENLARGED GARAGE LEVEL PUMP ROOMS
E-301 SCALE: 1/4" = 1'-0"



4 BUILDING NO.1 - ENLARGED ELEC RM 1206
E-301 SCALE: 1/4" = 1'-0"



5 BUILDING NO.1 - ENLARGED ELEC 1303 & IT 1302
E-301 SCALE: 1/4" = 1'-0"



6 BUILDING NO.1 - ENLARGED ELEC 1403 & IT 1402
E-301 SCALE: 1/4" = 1'-0"

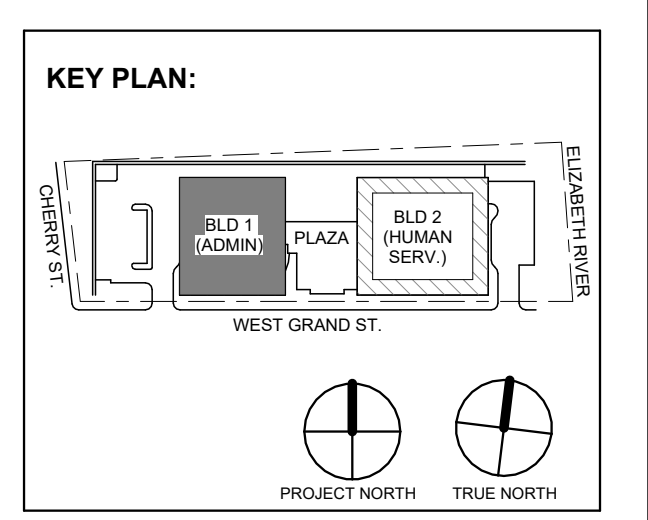


Table with columns: No., Date, Description, Revisions / Issues. Contains revision history for the drawing.

DIGroupArchitecture
ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242
2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
NJ RA AI 00827100

PRELIMINARY
NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

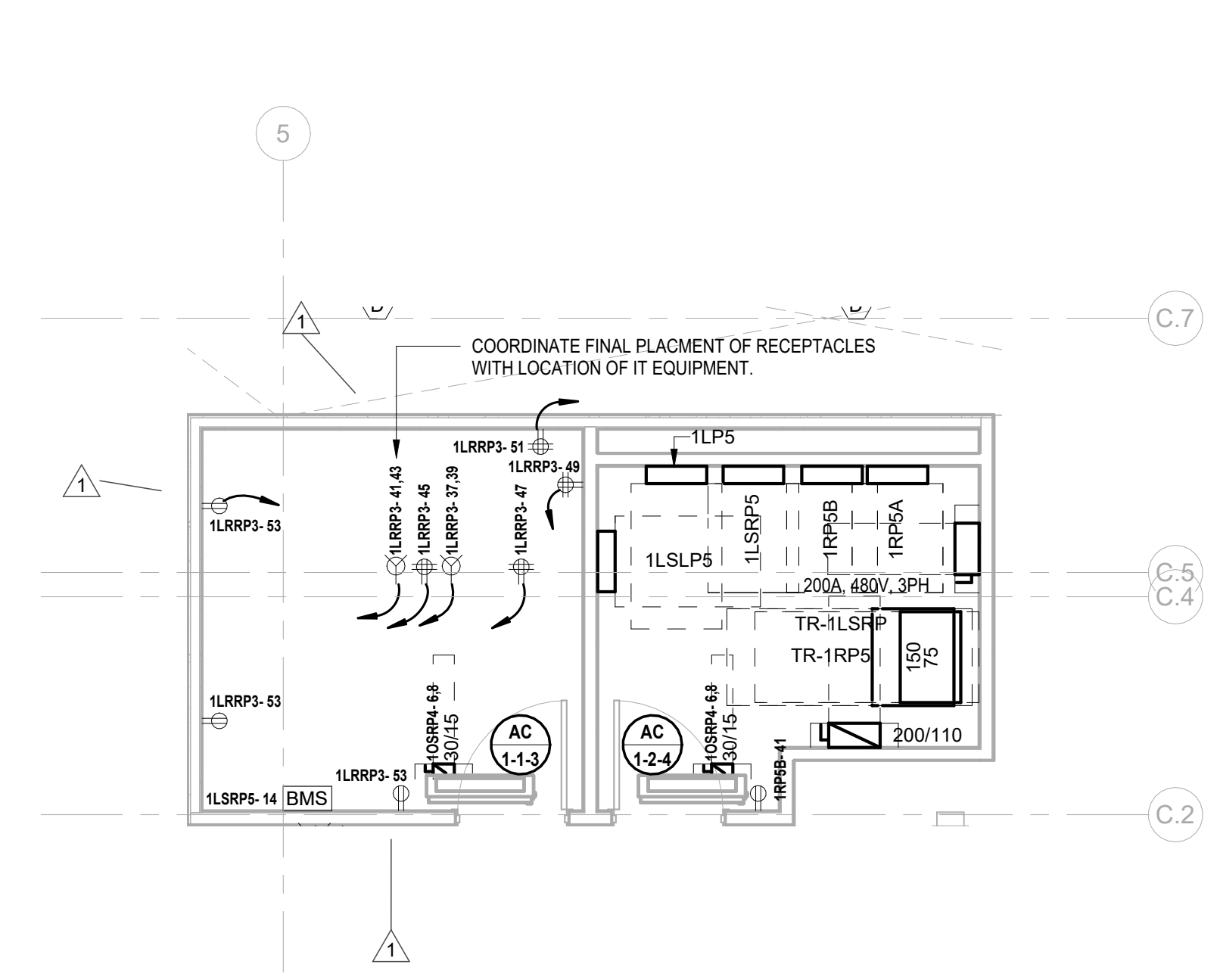
Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

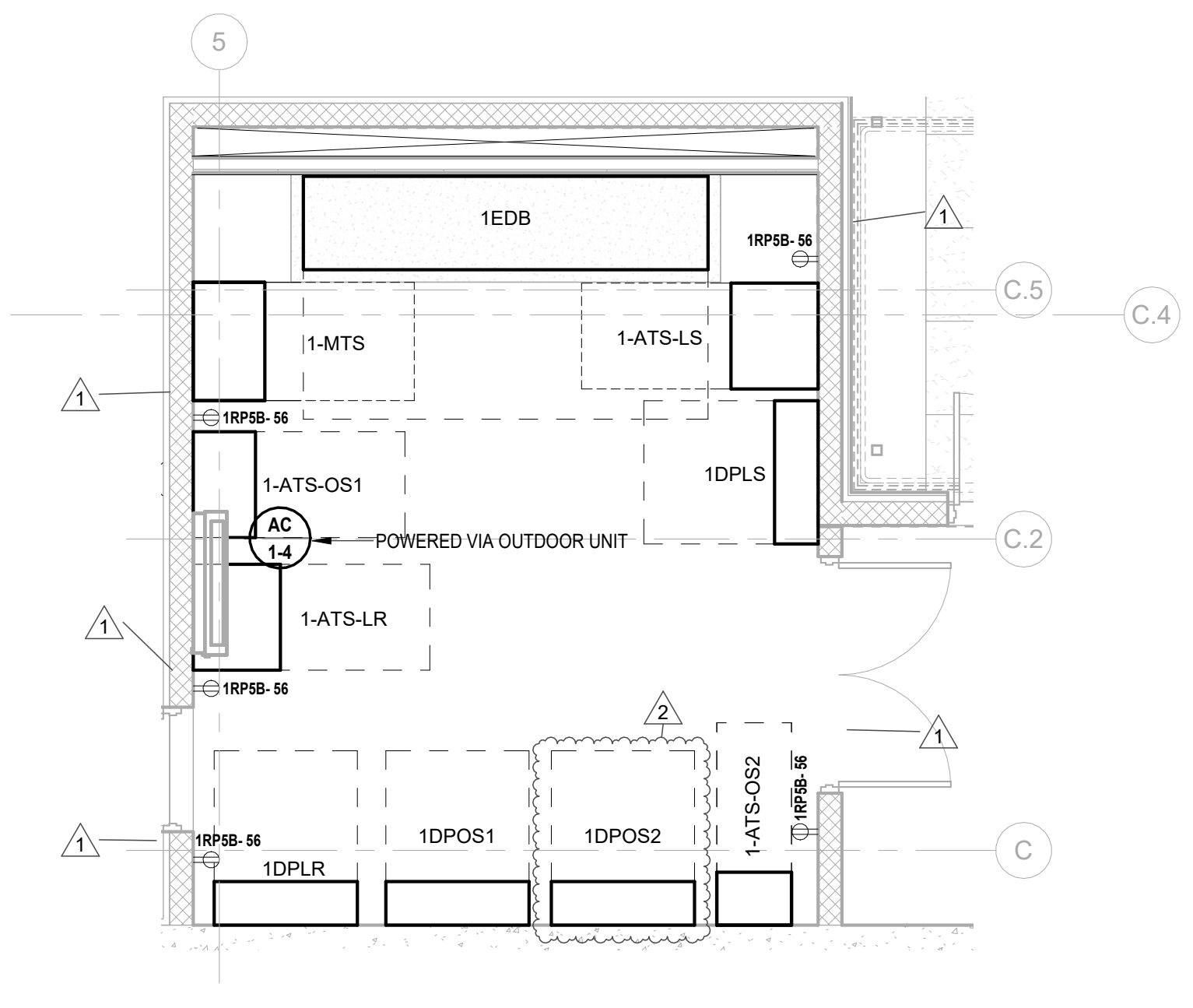
Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JMSH

Sheet Name:
BUILDING NO. 1 - ELECTRICAL ENLARGED PLANS

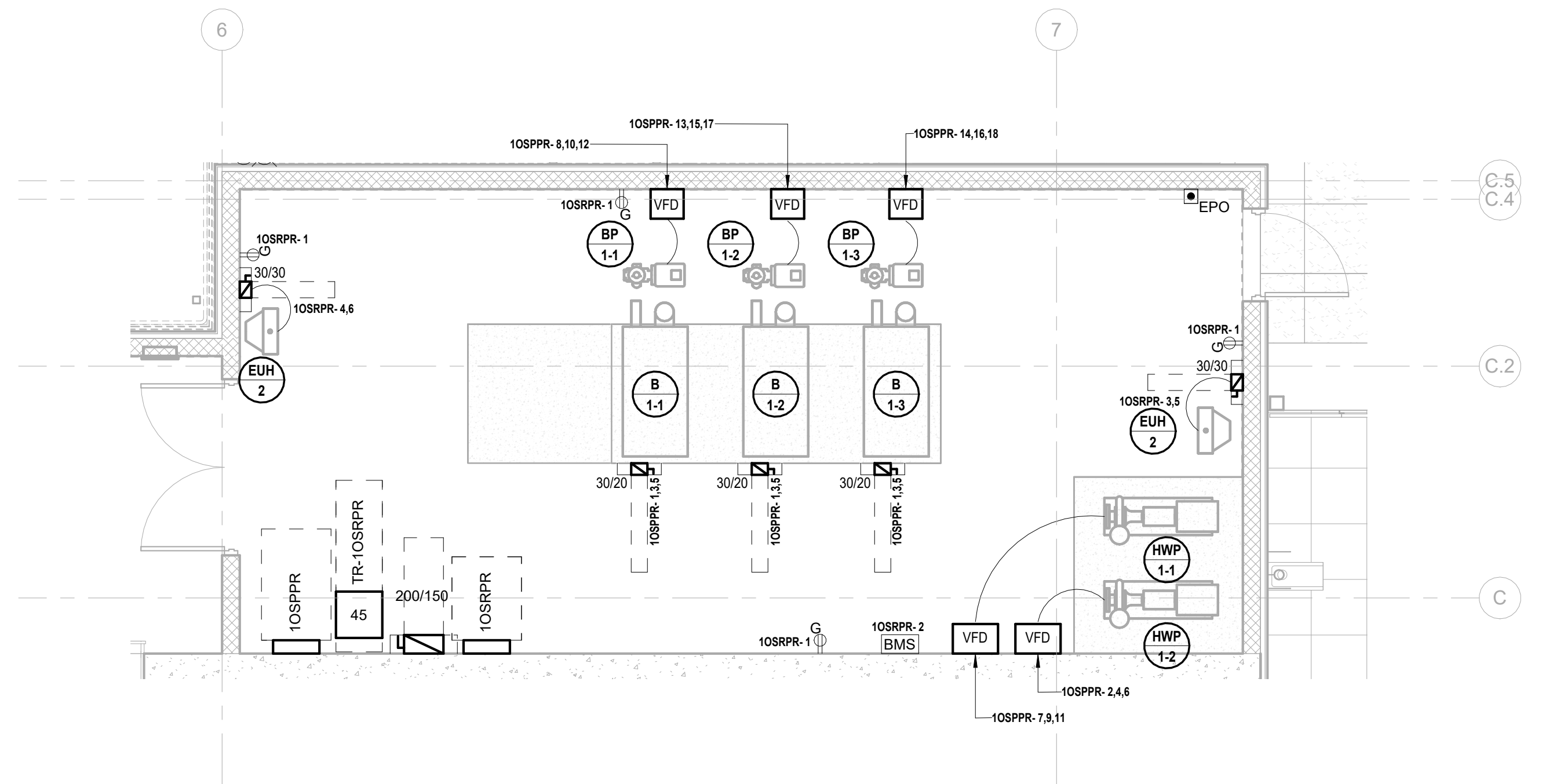
Sheet No:
E-301



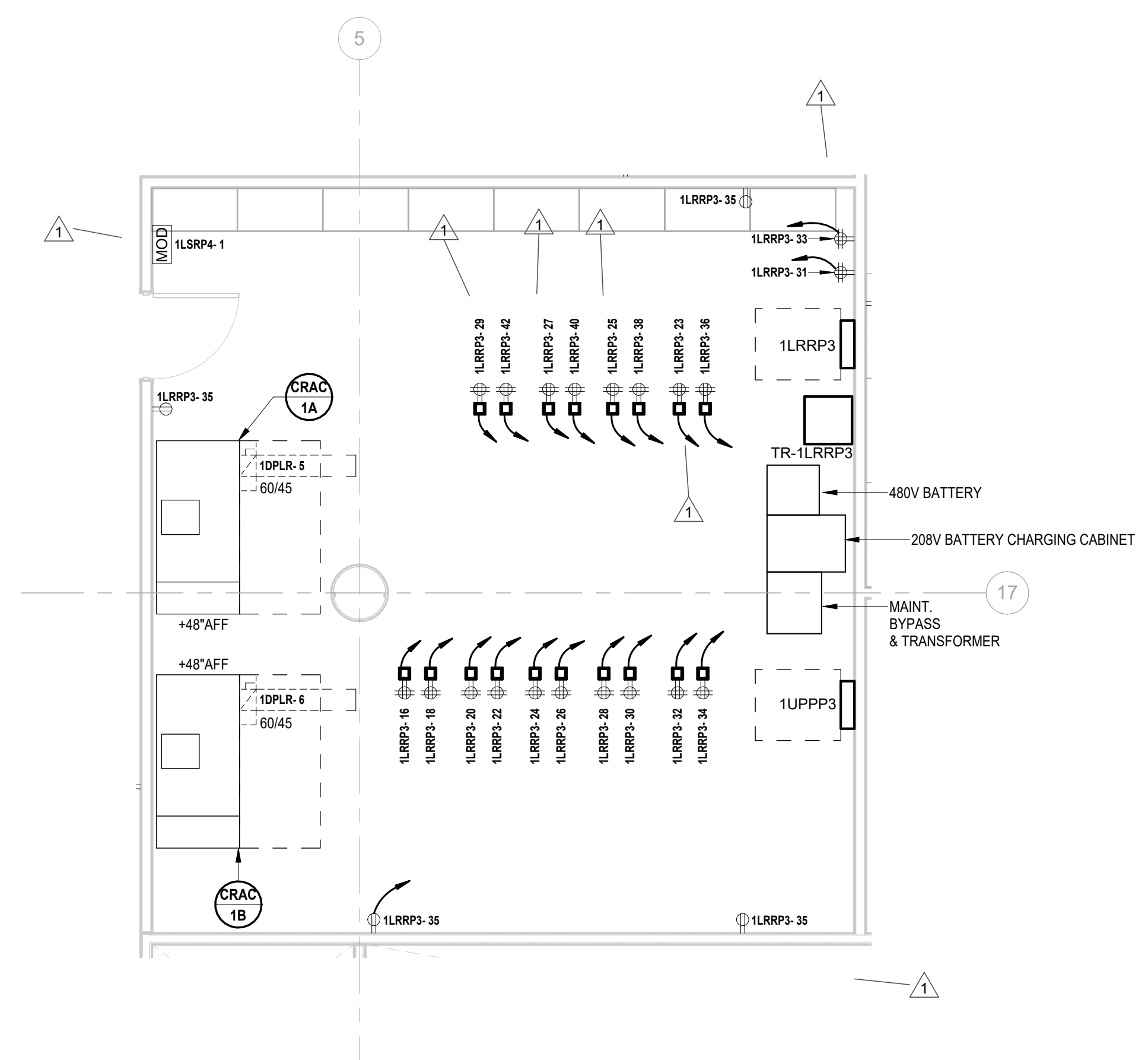
1 BUILDING NO.1 - LEVEL 5 - ELECTRICAL POWER PLAN SCALE: 1/4" = 1'-0"



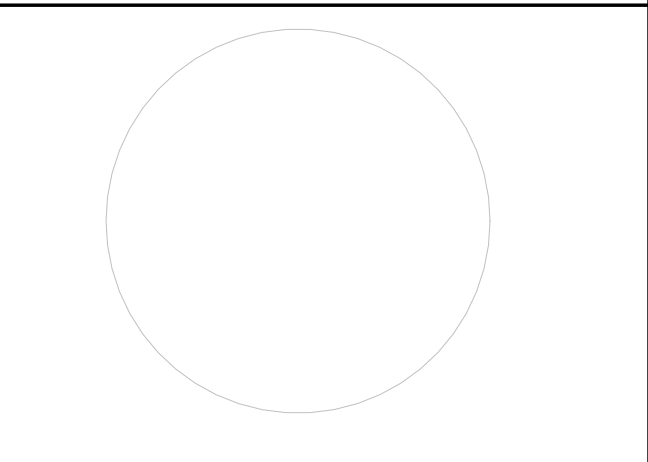
2 BUILDING NO.1 - ENLARGED EMERGENCY ELEC. RM 1602 SCALE: 1/4" = 1'-0"



3 BUILDING NO.1 - ENLARGED BOILER ROOM 1603 SCALE: 1/4" = 1'-0"



4 BUILDING NO.1 - LEVEL 4 - ELECTRICAL POWER PLAN - DATA CENTER 1442 SCALE: 1/4" = 1'-0"



ALTERNATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL. THIS SEAL AND THE CONTAINED INFORMATION DOCUMENT ARE NOT TO BE REPRODUCED OR COPIED.

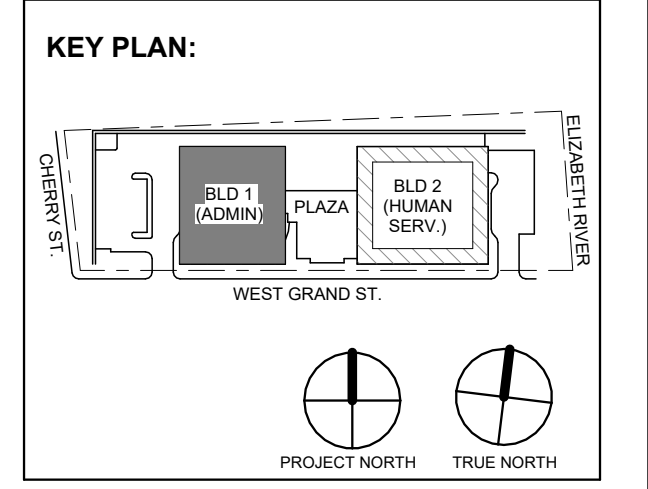


Table with 3 columns: No., Date, Description. Contains revision history for the drawing.

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6342 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA NJ RA AI 00827100



DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY

Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH

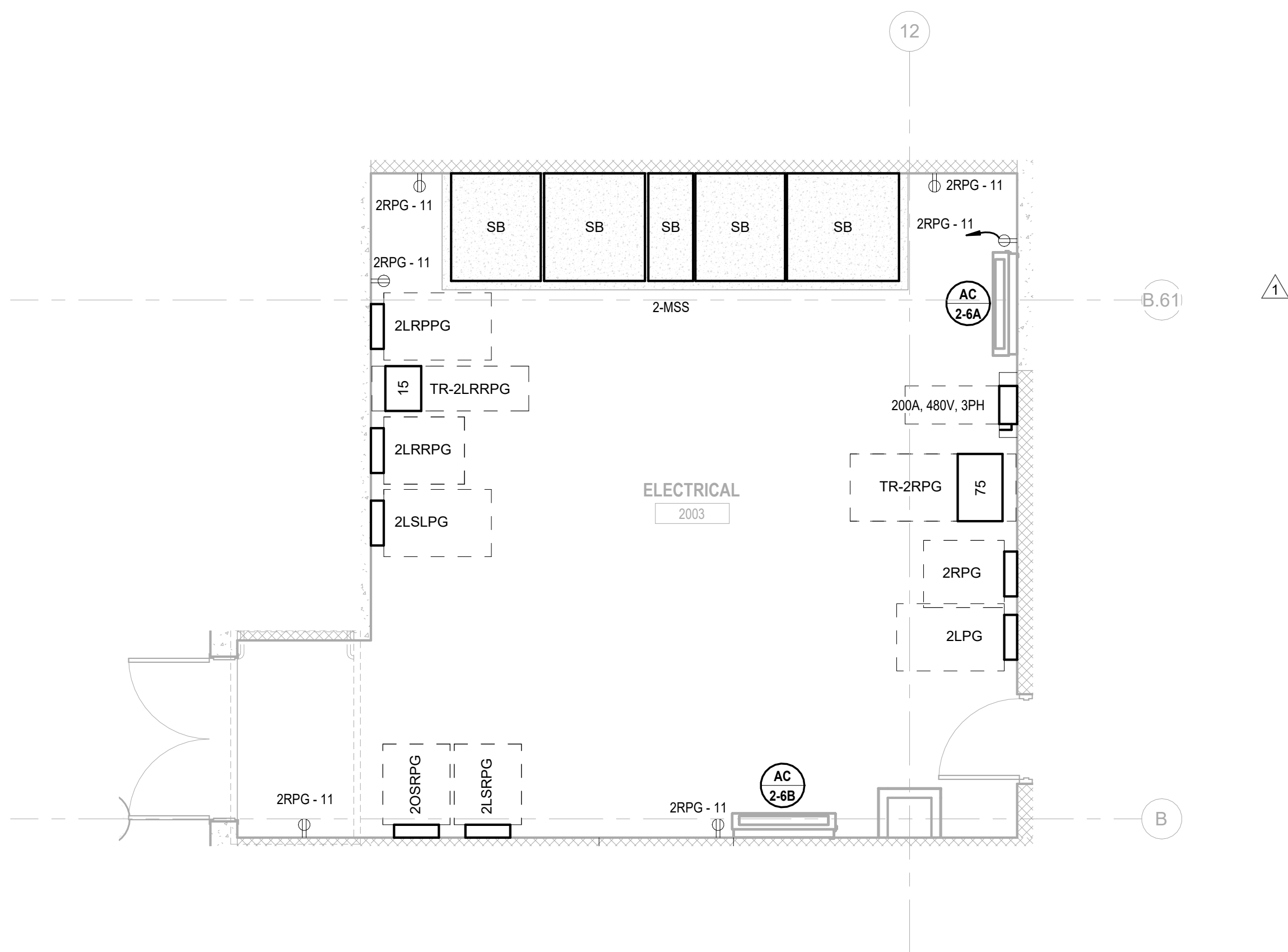
Sheet Name: BUILDING NO. 1 - ELECTRICAL ENLARGED PLANS

Sheet No:

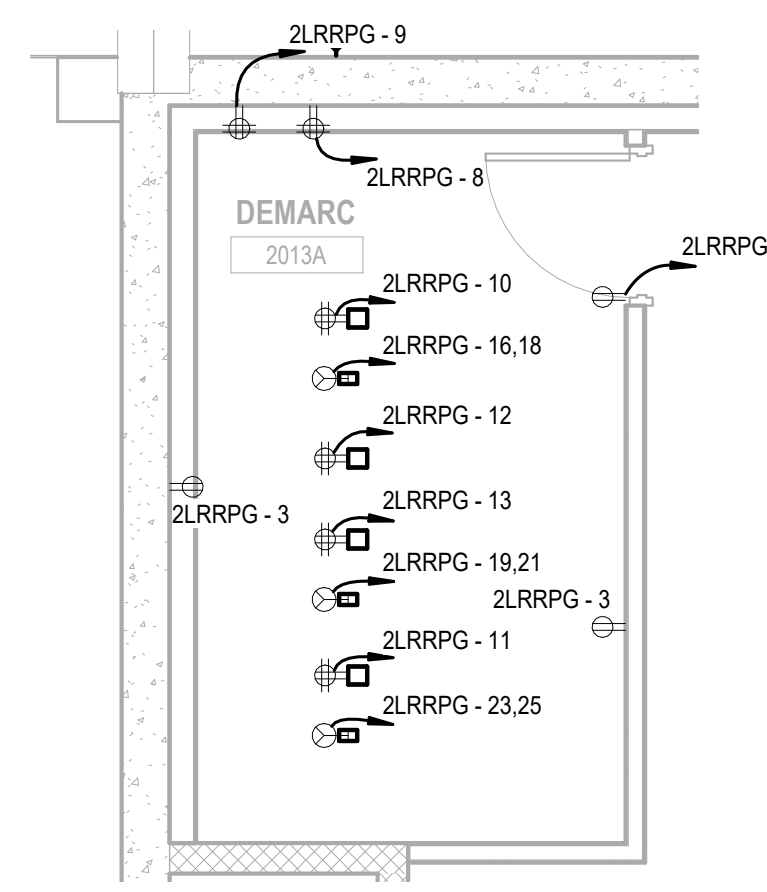
E-302

H2M Associates, Inc.
119 Cherry Hill Road, Suite 110
Parsippany, NJ 07054
862.207.5900 - www.h2m.com
NJ Landscape Architecture Certificate No.: 21MH00010300
NJ Engineering Certificate of Authorization No.: 24GA28019100

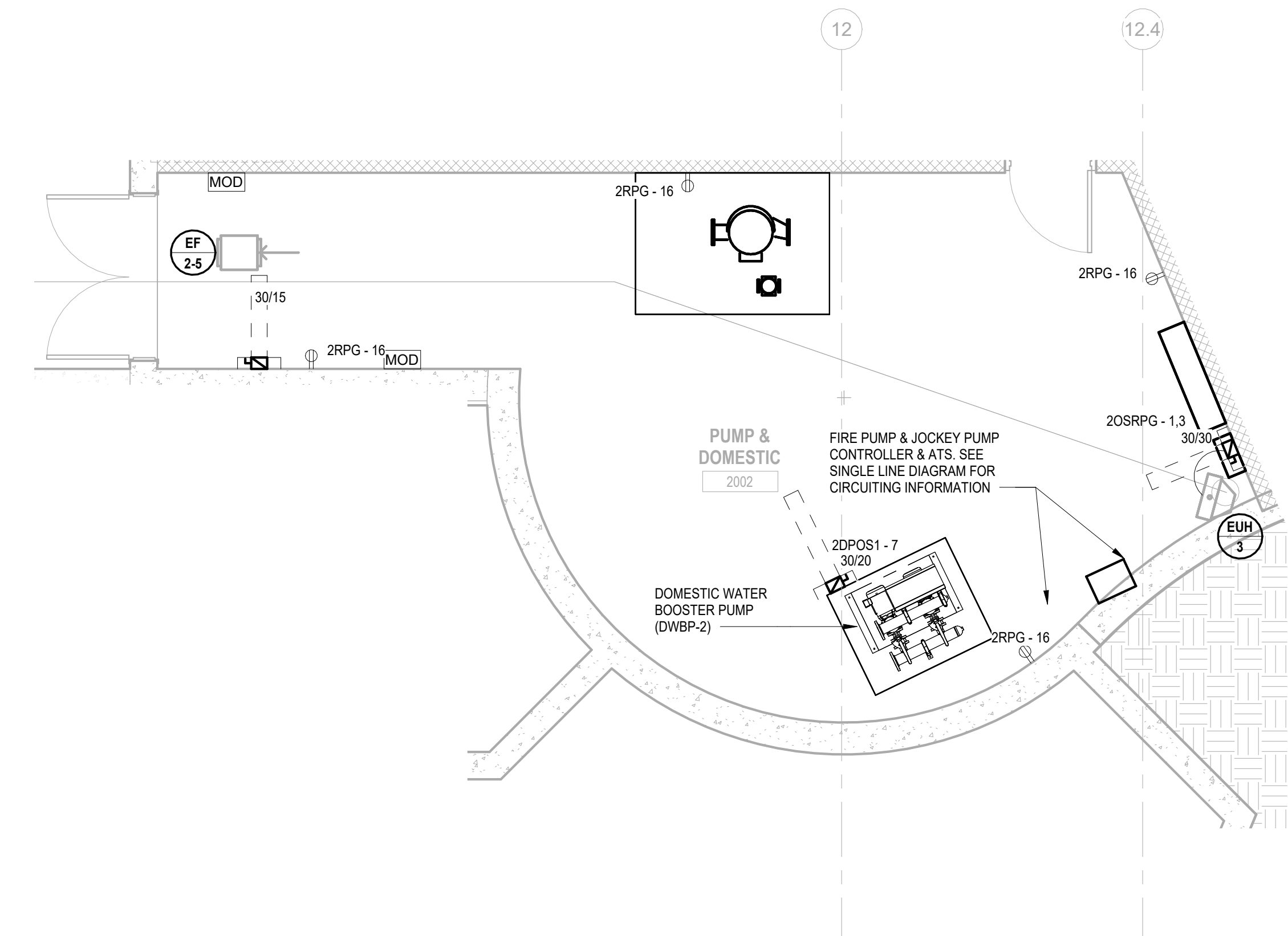
JOHN CHRIS MORRIS III, P.E.
ALTERNATE OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS NULL AND VOID.
DESIGNED BY: DRAWN BY: CHECKED BY: REVIEWED BY:
PROJECT No.: DATE: SCALE:
DIGA2301 11/08/2023 AS SHOWN



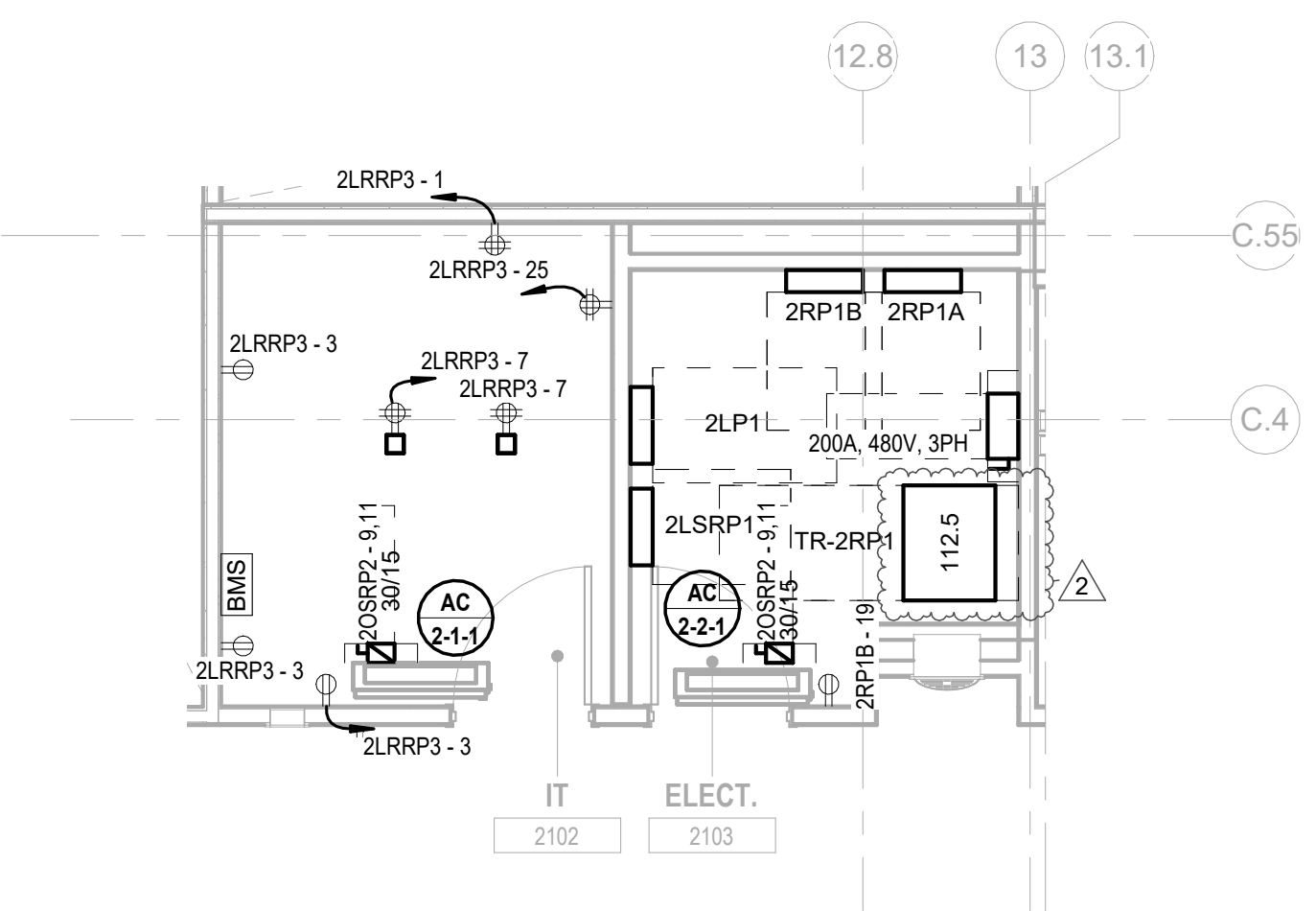
1 BUILDING NO.2 - ENLARGED ELECTRICAL ROOM 2003
E-303 SCALE: 1/4" = 1'-0"



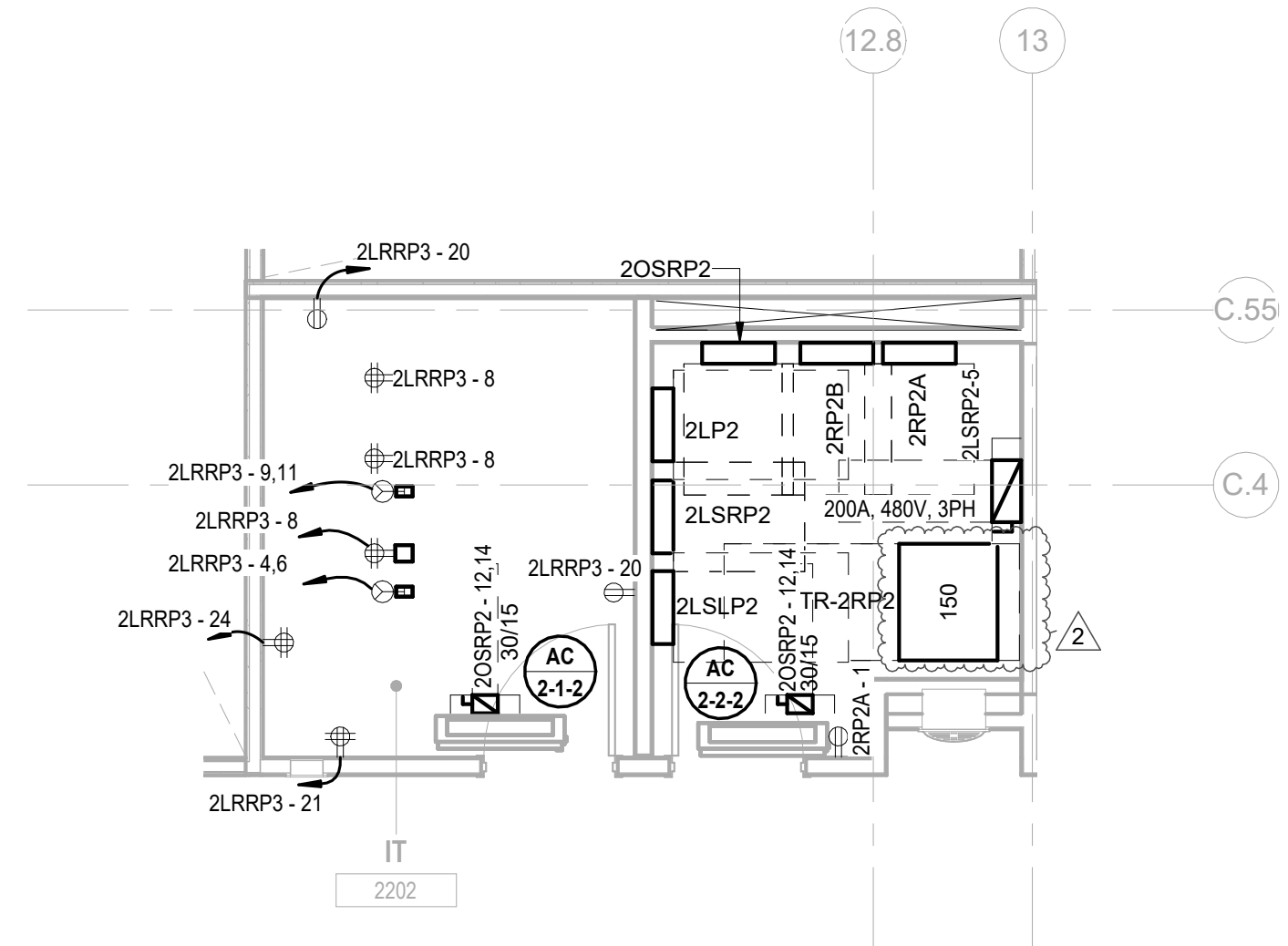
2 BUILDING NO.2 - LEVEL 0 - ELECTRICAL POWER PLAN - DEMARC ROOM
E-303 SCALE: 1/4" = 1'-0"



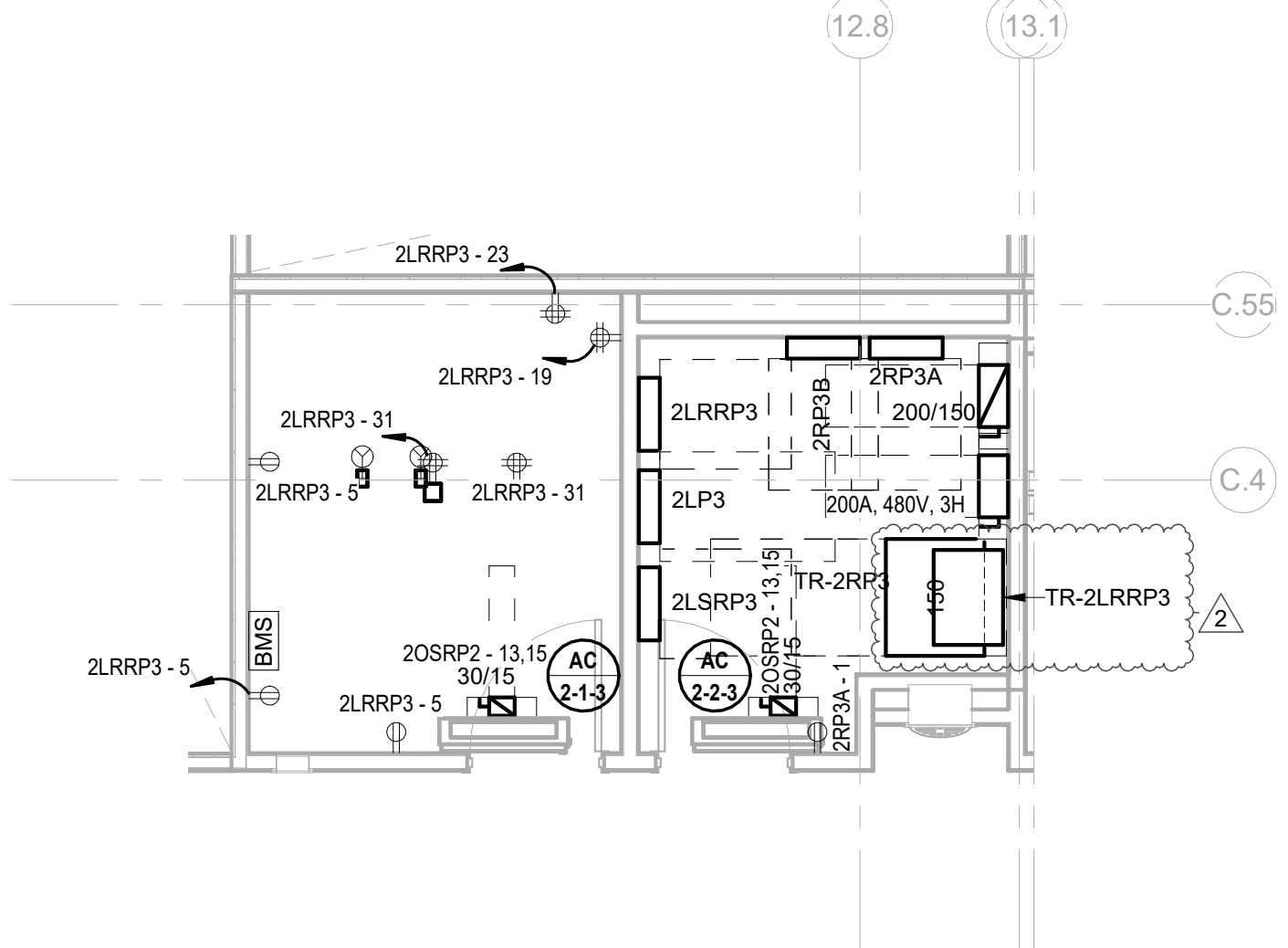
3 BUILDING NO.2 - ENLARGED GARAGE LEVEL PUMP ROOM
E-303 SCALE: 1/4" = 1'-0"



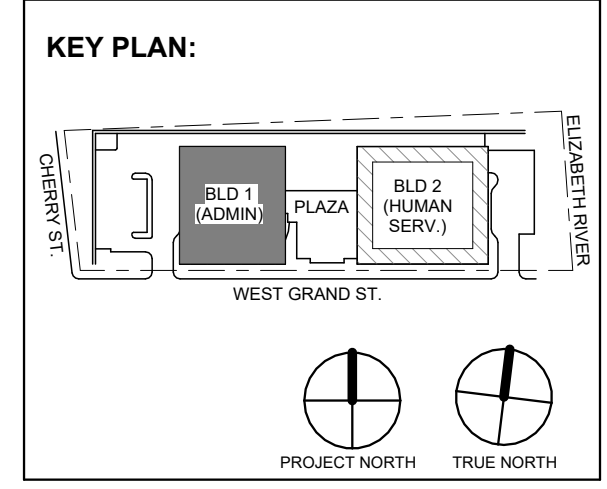
4 BUILDING NO.2 - ENLARGED ELEC 2103 & IT 2102
E-303 SCALE: 1/4" = 1'-0"



5 BUILDING NO.2 - ENLARGED ELEC 2203 & IT 2202
E-303 SCALE: 1/4" = 1'-0"



6 BUILDING NO.2 - ENLARGED ELEC 2303 & IT 2302
E-303 SCALE: 1/4" = 1'-0"



Revision table with columns for No., Date, Description, and Revisions / Issues.

DIGroupArchitecture
ARCHITECTURE FOR CHANGE
15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6342
2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, AIA
NJ RA AI 00827100

PRELIMINARY
NOT FOR CONSTRUCTION

DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client:
UNION COUNTY IMPROVEMENT AUTHORITY

Project:
UNION COUNTY GOVERNMENT COMPLEX
81 & 83 WEST GRAND STREET
CITY OF ELIZABETH
NEW JERSEY, 07202

Drawing Information:
Project No: 20.072
Date: 11.08.2023
Drawn By: JBA/VPC
Checked By: JM/SH

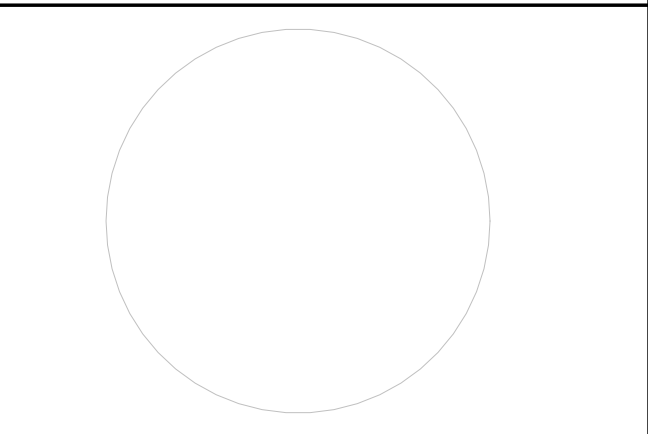
Sheet Name:
BUILDING NO. 2 - ELECTRICAL ENLARGED PLANS

Sheet No:
E-303

H2M Associates, Inc. 119 Cherry Hill Road, Suite 110 Parsippany, NJ 07054 862.207.5900 www.h2m.com

John Chris Morris III, P.E. Alteration of this document except by a licensed professional is illegal. This drawing is the contractor's responsibility. It is the contractor's responsibility to verify the information on this drawing.

Project No: D16A2301 Date: 11/08/2023 Scale: AS SHOWN



KEY PLAN: BLD 1 (ADMIN), BLD 2 (MECHANICAL), PLAZA, WEST GRAND ST. PROJECT NORTH, TRUE NORTH.

2 12.08.2023 Addendum No. 02 11.08.2023 For Public Bid No. Date Description Revisions / Issues

DIGroupArchitecture ARCHITECTURE FOR CHANGE 15 Bethany Street • New Brunswick, NJ 08901 • T: 732.249.6242 2450 W Hunting Park Ave • Philadelphia, PA 19122 • T: 215.634.3400

Jeffrey D. Venezia, P.E. NJ RA AI 00827100 PRELIMINARY NOT FOR CONSTRUCTION

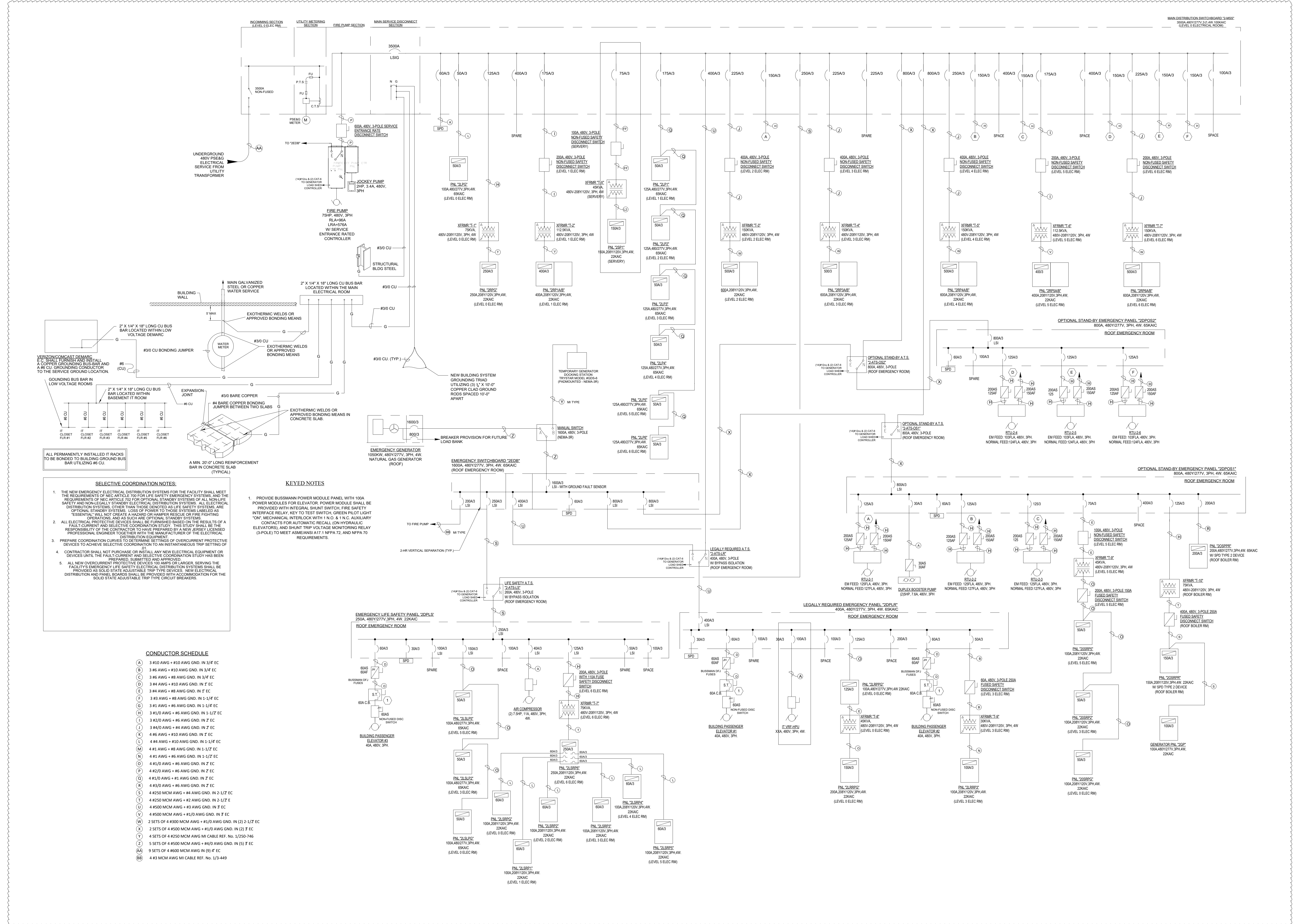
DO NOT SCALE. DRAWING MAY BE PRINTED AT REDUCED SCALE. CONSULT WITH ARCHITECT FOR DIMENSIONS.

Client: UNION COUNTY IMPROVEMENT AUTHORITY Project: UNION COUNTY GOVERNMENT COMPLEX 81 & 83 WEST GRAND STREET CITY OF ELIZABETH NEW JERSEY, 07202

Drawing Information: Project No: 20.072 Date: 11.08.2023 Drawn By: JBA/VPC Checked By: JM/SH Sheet No:

BUILDING NO. 2 - ELECTRICAL SINGLE LINE DIAGRAM

Sheet No: E-402



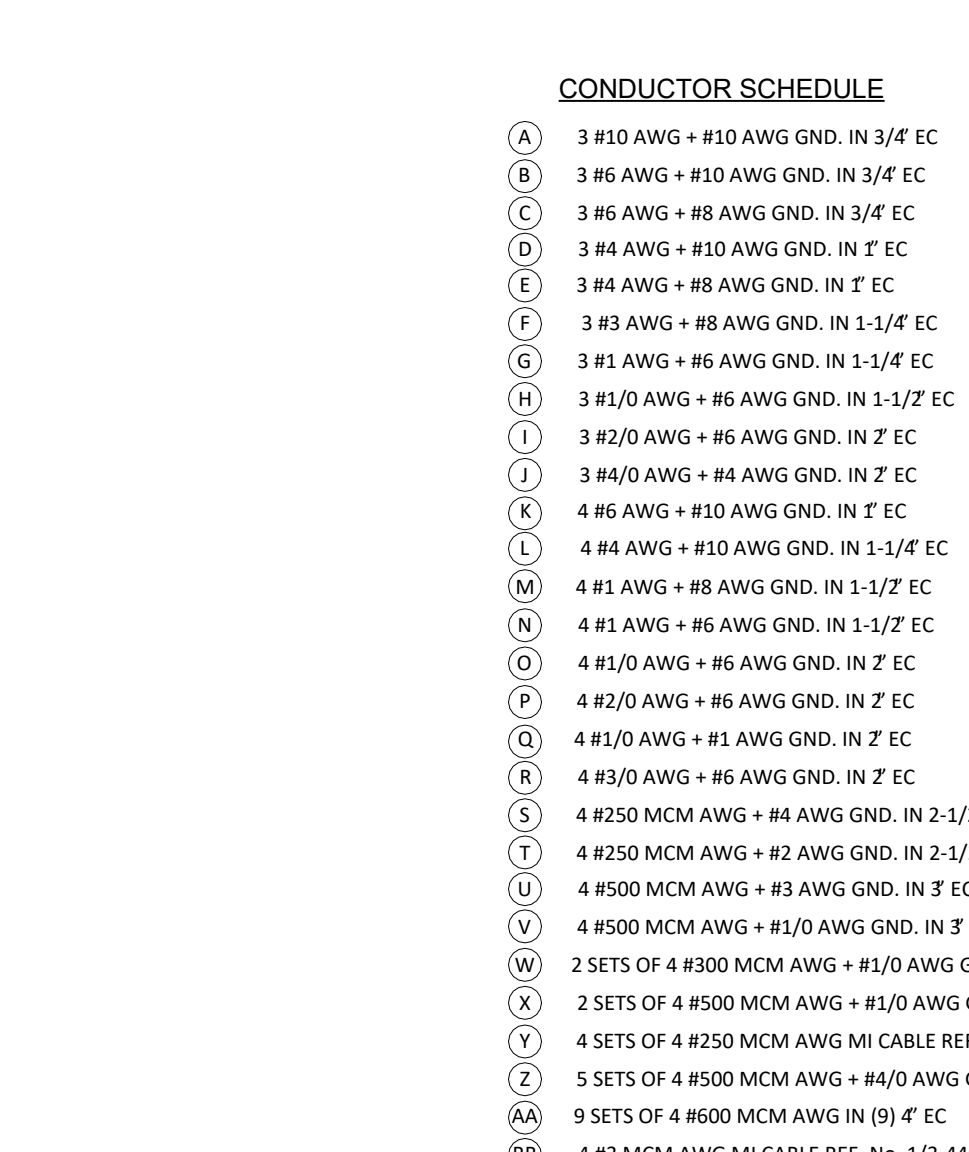
UNDERGROUND 480V PSE&G ELECTRICAL SERVICE FROM UTILITY TRANSFORMER

VERIFICATION DEMAND: ALL PERMANENTLY INSTALLED IT RACKS TO BE BONDED TO BUILDING GROUND BUS BAR UTILIZING #6 CU.

SELECTIVE COORDINATION NOTES: 1. THE NEW EMERGENCY ELECTRICAL DISTRIBUTION SYSTEMS FOR THE FACILITY SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 708 FOR OPTIONAL STAND-BY SYSTEMS...

KEY NOTES: 1. PROVIDE BUSMANN POWER MODULE PANEL WITH 100A POWER MODULES FOR ELEVATOR. POWER MODULE SHALL BE PROVIDED WITH INTEGRAL SHUNT SWITCH, FIRE SAFETY INTERFACE RELAY, KEY TO TEST SWITCH, GREEN PILOT LIGHT 'ON', MECHANICAL INTERLOCK WITH 'N.O.' & 'N.C.' AUXILIARY CONTACTS FOR AUTOMATIC RECALL (ON HYDRAULIC ELEVATORS) AND SHUNT TRIP VOLTAGE MONITORING RELAY (3-POLE) TO MEET ASMEANS A17.1 NFPA 72 AND NFPA 70 REQUIREMENTS.

CONDUCTOR SCHEDULE: (A) 3 #10 AWG + #10 AWG GND. IN 3/4" EC (B) 3 #6 AWG + #10 AWG GND. IN 3/4" EC (C) 3 #6 AWG + #8 AWG GND. IN 3/4" EC (D) 3 #4 AWG + #10 AWG GND. IN 1" EC (E) 3 #4 AWG + #8 AWG GND. IN 1" EC (F) 3 #3 AWG + #8 AWG GND. IN 1-1/4" EC (G) 3 #3 AWG + #6 AWG GND. IN 1-1/4" EC (H) 3 #1/0 AWG + #6 AWG GND. IN 1-1/2" EC (I) 3 #1/0 AWG + #4 AWG GND. IN 1" EC (J) 4 #6 AWG + #10 AWG GND. IN 1" EC (K) 4 #4 AWG + #10 AWG GND. IN 1-1/4" EC (L) 4 #3 AWG + #8 AWG GND. IN 1-1/2" EC (M) 4 #3 AWG + #6 AWG GND. IN 1-1/2" EC (N) 4 #1/0 AWG + #6 AWG GND. IN 2" EC (O) 4 #1/0 AWG + #4 AWG GND. IN 2" EC (P) 4 #250 MCM AWG + #4 AWG GND. IN 2-1/2" EC (Q) 4 #250 MCM AWG + #2 AWG GND. IN 2-1/2" EC (R) 4 #500 MCM AWG + #3 AWG GND. IN 3" EC (S) 4 #500 MCM AWG + #1/0 AWG GND. IN 3" EC (T) 2 SETS OF 4 #250 MCM AWG + #1/0 AWG GND. IN (2) 2-1/2" EC (U) 2 SETS OF 4 #500 MCM AWG + #1/0 AWG GND. IN (2) 3" EC (V) 4 SETS OF 4 #250 MCM AWG MI CABLE REF. NO. 1/250-746 (W) 5 SETS OF 4 #500 MCM AWG + #4/0 AWG GND. IN (5) 3" EC (X) 9 SETS OF 4 #600 MCM AWG IN (9) 4" EC (AA) 4 #3 MCM AWG MI CABLE REF. NO. 1/3-449



Distribution Panel: 1-MSS

Location: ELEC 1010
Supply From: M-SS
Mounting: Enclosure:

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 100kA
Mains Type: MCB
Mains Rating: 2500 A
MCB Rating: 2500 A

CKT	Circuit Description	# of Poles	Trip Rating	Wire Size (H,N,G)	Conduit Size	Load	Remarks
1	1-ATS-S	3	400 A	1-#600, 1-#600, 1-#3	4"	22296 VA	
2	1-ATS-LR	3	400 A	3-#600, 1-#600, 1-#3	4"	194081 VA	
3	1-ATS-OS1	3	800 A	2 runs of 3-#600, 1-#600, 1-#10	(2) 4"	253817 VA	
4	1-ATS-OS2	3	400 A	3-#600, 1-#600, 1-#3	(2) 4"	144584 VA	
5	1LPG	3	50 A	3-#6, 1-#6, 1-#10	1-1/4"	10170 VA	
6	TR-1RPG	3	250 A	3-#250, 1-#250, 1-#4	2-1/2"	119100 VA	
7	1LP2, 1LP3, 1LP4 & 1LP5	3	200 A	3-#200, 1-#200, 1-#6	2-1/2"	37915 VA	
8	TR-1RP2	3	175 A	3-#175, 1-#175, 1-#6	2"	83857 VA	
9	TR-1RP3	3	175 A	3-#175, 1-#175, 1-#6	2"	89630 VA	
10	TR-1RP4	3	175 A	3-#175, 1-#175, 1-#6	2"	93320 VA	
11	TR-1RP5	3	250 A	3-#250, 1-#250, 1-#4	2-1/2"	119512 VA	
12	SPD	3	110 A	3-#110, 1-#110, 1-#6	2"	0 VA	
13	RTU-1-5 (NORMAL)	3	110 A	3-#110, 1-#110, 1-#6	2"	79776 VA	
14	RTU-1-2 (NORMAL)	3	110 A	3-#110, 1-#110, 1-#6	2"	79776 VA	
15	RTU-1-1 (NORMAL)	3	90 A	3-#90, 1-#90, 1-#6	1-1/4"	54846 VA	
16	RTU-1-4 (NORMAL)	3	110 A	3-#110, 1-#110, 1-#6	2"	79776 VA	
17	RTU-1-3 (NORMAL)	3	110 A	3-#110, 1-#110, 1-#6	2"	79776 VA	
18	FIRE AND JOCKEY PUMP	3	600 A	2 runs of 3-#350, 1-#350, 1-#1	(2) 3"	79776 VA	
19	SPARE	3	400 A			0 VA	
20	SPARE	3	225 A			0 VA	
						1621995 VA	
						1951 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	80639 VA	100.00%	80639 VA	
Heating	84636 VA	100.00%	84636 VA	
Lighting - Dwelling Unit	720 VA	100.00%	720 VA	
Motor	107246 VA	118.60%	127190 VA	
Other	44995 VA	100.00%	44995 VA	
Power - General	18624 VA	100.00%	18624 VA	
Receptacle	290244 VA	51.72%	150122 VA	
Power	31424 VA	100.00%	31424 VA	
Lighting	51895 VA	100.00%	51895 VA	
Non-Continuous	176607 VA	100.00%	176607 VA	
				Total Conn. Load: 1621995 VA
				Total Est. Demand: 1499367 VA
				Total Conn.: 1951 A
				Total Est. Demand: 1803 A

Notes:

Branch Panel: 1RPG

Location: ELEC 1010
Supply From: TR-1RPG
Mounting: Surface
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 600 A
MCB Rating: 500 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT	
1	BIKE CHARGER	20 A	1	1-#8, 1-#8, 1-#8	3/4"	840 VA	840 VA			3/4"	1-#8, 1-#8, 1-#8	1	20 A	BIKE CHARGER	2
3	BIKE CHARGER	20 A	1	1-#8, 1-#8, 1-#8	3/4"		840 VA	3328 VA		3/4"	1-#8, 1-#8, 1-#8	2	40 A	EV CHARGING STATION	4
5	EV CHARGING STATION	40 A	2	2-#4, 1-#4, 1-#4	1-1/4"					1-1/4"	2-#4, 1-#4, 1-#4	2	40 A	EV CHARGING STATION	6
7	EV CHARGING STATION	40 A	2	2-#4, 1-#4, 1-#4	1-1/4"	3328 VA	3328 VA			1-1/4"	2-#4, 1-#4, 1-#4	2	40 A	EV CHARGING STATION	8
9	EV CHARGING STATION	40 A	2	2-#4, 1-#4, 1-#4	1"					1"	2-#4, 1-#4, 1-#4	2	40 A	EV CHARGING STATION	10
11	GARAGE RECEPTACLES	20 A	1	1-#10, 1-#10, 1-#10	3/4"	720 VA	540 VA			3/4"	1-#8, 1-#8, 1-#8	1	20 A	GARAGE RECEPTACLES	12
13	GARAGE RECEPTACLES	20 A	1	1-#8, 1-#8, 1-#8	3/4"		720 VA	720 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - OUTDOOR PLAZA EL06	14
15	RECEPT - OUTDOOR PLAZA EL06	20 A	1	1-#8, 1-#8, 1-#8	3/4"		720 VA	720 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - ELEC 1010	16
17	RECEPT - DOMESTIC 1012	20 A	1	1-#12, 1-#12, 1-#12	3/4"		720 VA	900 VA		3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECEPT - LOBBY 1001	18
19	CUH-1 - LOBBY 1100	20 A	1	1-#12, 1-#12, 1-#12	3/4"	102 VA	540 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - REFUSE 1121	20
21	KITCHEN 1113 - VENDING MACHINE RECEPT.	20 A	1	1-#6, 1-#6, 1-#6	3/4"		1920 VA	360 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - MAINTENANCE 1120	22
23	RECEPT - MAINT. 1004	20 A	1	1-#10, 1-#10, 1-#10	3/4"		720 VA	180 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - MAINTENANCE 1120	24
25	CAFE 1110 - TV RECEPT.	20 A	1	1-#10, 1-#10, 1-#10	3/4"	860 VA	1000 VA			3/4"	1-#10, 1-#10, 1-#10	1	20 A	REFRIG - KITCHEN 1113	26
27	RECEPT - KITCHEN 1113	20 A	1	1-#12, 1-#12, 1-#12	3/4"		180 VA	360 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPT - MAINT. 1004	28
29	UNIT HEATER (ECUH-1) - REFUSE 1121	20 A	2	2-#8, 1-#8, 1-#8	3/4"		1500 VA	1440 VA		3/4"	1-#8, 1-#8, 1-#8	1	20 A	RECEPT - CAFE 1110	30
31	UNIT HEATER (ECUH-1) - REFUSE 1121	20 A	2	2-#8, 1-#8, 1-#8	3/4"	1500 VA	1080 VA			3/4"	1-#8, 1-#8, 1-#8	1	20 A	RECEPT - LOBBY 1100	32
33	EXHAUST FANS (EF 1-3) - PUMP RM 1011 & DOMESTIC 1012	15 A	2	2-#12, 1-#12, 1-#12	3/4"		666 VA	2392 VA		3/4"	2-#10, 1-#10, 1-#10	2	30 A	SPLIT SYS. HEAT PUMP (HP 1-6A) - PARKING 1000	34
35	EXHAUST FANS (EF 1-3) - PUMP RM 1011 & DOMESTIC 1012	15 A	2	2-#12, 1-#12, 1-#12	3/4"	2392 VA	1500 VA			3/4"	2-#10, 1-#10, 1-#10	2	30 A	UNIT HEATER (ECUH-1) - LOBBY 1001	36
37	SPLIT SYS. HEAT PUMP (HP 1-6B) - PARKING 1000	30 A	2	2-#10, 1-#10, 1-#10	3/4"		2392 VA	1500 VA		3/4"	2-#12, 1-#12, 1-#12	2	20 A	UNIT HEATER (ECUH-1) - LOBBY 1001	38
39	SPLIT SYS. HEAT PUMP (HP 1-6B) - PARKING 1000	30 A	2	2-#10, 1-#10, 1-#10	3/4"		2392 VA	1500 VA		3/4"	2-#12, 1-#12, 1-#12	2	20 A	UNIT HEATER (ECUH-1) - LOBBY 1001	40
41	UNIT HEATER (ECUH-1) - LOBBY 1001	20 A	2	2-#12, 1-#12, 1-#12	3/4"		1500 VA	1500 VA		3/4"	2-#10, 1-#10, 1-#10	2	20 A	UNIT HEATER (EUH-1) - GROUNDINGS STORAGE 1003	42
43	UNIT HEATER (ECUH-1) - LOBBY 1001	20 A	2	2-#12, 1-#12, 1-#12	3/4"	1500 VA	1500 VA			3/4"	2-#10, 1-#10, 1-#10	2	20 A	UNIT HEATER (EUH-1) - GROUNDINGS STORAGE 1003	44
45	UNIT HEATER (ECUH-1) - LOBBY 1100	20 A	2	2-#8, 1-#8, 1-#8	3/4"		1500 VA	540 VA		3/4"	1-#10, 1-#10, 1-#10	1	20 A	RECEPT - TOILET 1102	46
47	UNIT HEATER (ECUH-1) - LOBBY 1100	20 A	2	2-#8, 1-#8, 1-#8	3/4"		1500 VA	546 VA		3/4"	1-#10, 1-#10, 1-#10	1	15 A	EXHAUST FANS (EF 1-9) - RMs 1110, 1121, 1102 & 1103	48
49	EXHAUST FAN (EF 1-4) - STORAGE 1013	15 A	2	2-#12, 1-#12, 1-#12	3/4"	218 VA	2500 VA			1"	2-#6, 1-#6, 1-#6	2	35 A	UNIT HEATER (EUH-2) - STORAGE 1013	50
51	EXHAUST FAN (EF 1-4) - STORAGE 1013	15 A	2	2-#12, 1-#12, 1-#12	3/4"		218 VA	2500 VA		1"	2-#6, 1-#6, 1-#6	2	35 A	UNIT HEATER (EUH-2) - STORAGE 1013	52
53	UNIT HEATER (EUH-1) - MAINT. 1004	20 A	2	2-#10, 1-#10, 1-#10	3/4"		1500 VA	1500 VA		3/4"	2-#10, 1-#10, 1-#10	2	20 A	UNIT HEATER (ECUH-1) - MAINTENANCE 1120	54
55	UNIT HEATER (EUH-1) - MAINT. 1004	20 A	2	2-#10, 1-#10, 1-#10	3/4"	1500 VA	1500 VA			3/4"	2-#10, 1-#10, 1-#10	2	20 A	UNIT HEATER (ECUH-1) - MAINTENANCE 1120	56
57	UNIT HEATER (ECUH-1) - CAFE 1110	20 A	2	2-#10, 1-#10, 1-#10	3/4"		1500 VA	1560 VA		3/4"	2-#10, 1-#10, 1-#10	2	20 A	HWH-3 - TOILET 1111	58
59	UNIT HEATER (ECUH-1) - CAFE 1110	20 A	2	2-#10, 1-#10, 1-#10	3/4"		1500 VA	1560 VA		3/4"	2-#10, 1-#10, 1-#10	2	20 A	HWH-3 - TOILET 1111	60
61	RECEPT - KITCHEN 1113	20 A	1	1-#12, 1-#12, 1-#12	3/4"	180 VA	1560 VA			3/4"	2-#8, 1-#8, 1-#8	2	20 A	HWH-3 - TOILET 1103	62
63	HWH-3 - TOILET 1102	20 A	2	2-#8, 1-#8, 1-#8	3/4"		1560 VA	1560 VA		3/4"	2-#3, 1-#3, 1-#3	2	80 A	HWH-2 - KITCHEN 1113	64
65	HWH-3 - TOILET 1102	20 A	2	2-#8, 1-#8, 1-#8	3/4"		1560 VA	6656 VA		1-1/4"	2-#3, 1-#3, 1-#3	2	80 A	HWH-2 - KITCHEN 1113	66
67	UNIT HEATER (ECUH-1) - LOBBY 1100	20 A	2	2-#10, 1-#10, 1-#10	3/4"	1500 VA	6656 VA			3/4"	1-#10, 1-#10, 1-#10	1	20 A	LOBBY 1100 - TV RECEPT.	68
69	UNIT HEATER (ECUH-1) - LOBBY 1100	20 A	2	2-#10, 1-#10, 1-#10	3/4"		1500 VA	860 VA		3/4"	1-#10, 1-#10, 1-#10	1	20 A	LOBBY 1100 - TV RECEPT.	70
71	SPARE	0 A	1	--						3/4"	1-#6, 1-#6, 1-#6	1	20 A	KITCHEN 1113 - VENDING MACHINE RECEPT.	72
73	SPARE	0 A	1	--		0 VA	1920 VA			3/4"	1-#6, 1-#6, 1-#6	1	20 A	KITCHEN 1113 - VENDING MACHINE RECEPT.	74
75	SPARE	0 A	1	--			0 VA	1920 VA		3/4"	1-#6, 1-#6, 1-#6	1	20 A	KITCHEN 1113 - VENDING MACHINE RECEPT.	76
77	SPARE	0 A	1	--			0 VA	1920 VA		3/4"	1-#6, 1-#6, 1-#6	1	20 A	KITCHEN 1113 - VENDING MACHINE RECEPT.	78
79	SPARE	0 A	1	--		0 VA	180 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	RECEPTACLE - STORAGE 1112	80
81	SPARE	0 A	1	--			0 VA								82
83	SPARE	0 A	1	--											84
						Total Load: 39284 VA	Total Load: 37252 VA	Total Load: 42564 VA							
						Total Amps: 330 A	Total Amps: 310 A	Total Amps: 357 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	9568 VA	100.00%	9568 VA	
Heating	32000 VA	100.00%	32000 VA	
Motor	2416 VA	106.89%	2582 VA	
Receptacle	23100 VA	71.85%	16550 VA	
Power	26624 VA	100.00%	26624 VA	
Non-Continuous	24392 VA	100.00%	24392 VA	
				Total Conn. Load: 119100 VA
				Total Est. Demand: 112716 VA
				Total Conn.: 331 A
				Total Est. Demand: 313 A

Notes:

Branch Panel: 1LPG

Location: ELEC 1010
Supply From: 1-MSS
Mounting: Surface
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kA
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 50 A

CKT	Circuit Description	Trip	Poles	Wire Size (H,N,G)	Conduit Size	A	B	C	Conduit Size	Wire Size (H,N,G)	Poles	Trip	Circuit Description	CKT		
1	Exterior Site Lighting	20 A	1	1-#12, 1-#12, 1-#12	3/4"	120 VA	160 VA			3/4"	1-#12, 1-#12, 1-#12	1	20 A	Lighting OUTDOOR PLAZA EL06	2	
3	Lighting - 1001-1004, 1010-1012	20 A	1	1-#12, 1-#12, 1-#12	3/4"		1246 VA	504 VA		3/4"	1-#12, 1-#12, 1-#12	1	20 A	Lighting - 1000 Parking	4	
5	Lighting - 1000, 1013, 1014	20 A	1	1-#10, 1-#10, 1-#10	3/4"			2454 VA	1662 VA	3/4"	1-#12, 1-#12, 1-#12	3	15 A	EXHAUST FANS (EF 1-1, 1-2) - PARKING 1000	6	
7	Exterior Site Lighting	20 A	1	1-#12, 1-#12, 1-#12	3/4"	420 VA	1662 VA			3/4"	1-#12, 1-#12, 1-#12	3	15 A	EXHAUST FANS (EF 1-1, 1-2) - PARKING 1000	8	
9	Exterior Site Lighting	20 A	1	1-#12, 1-#12, 1-#12	3/4"		280 VA	1662 VA		3/4"	1-#12, 1-#12, 1-#12	3	15 A	EXHAUST FANS (EF 1-1, 1-2) - PARKING 1000	10	
11	SPARE	20 A	1	--					0 VA	0 VA			1	20 A	SPARE	12
13	SPARE	20 A	1	--		0 VA	0 VA						1	20 A	SPARE	14