

CONSTRUCTION DOCUMENTS

STAR COMMUNICATIONS

NEW HEADQUARTERS

CLINTON, NC

JKF PROJECT NO. 2022-17

VOLUME 3

JULY 15, 2023



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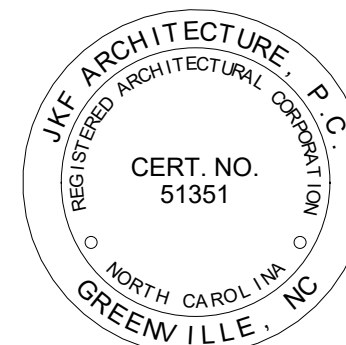
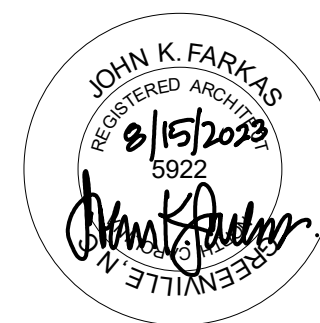
FIRE ALARM

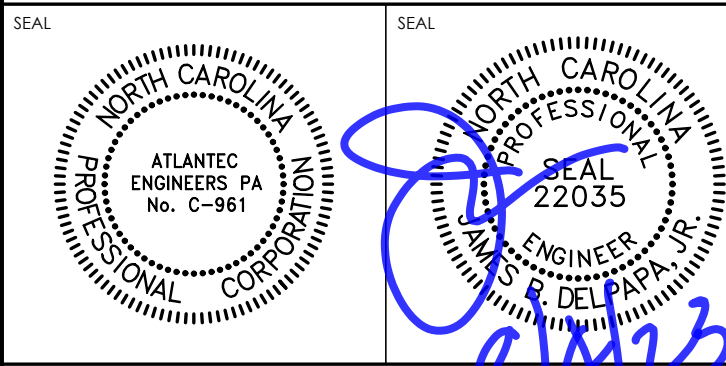
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RIVERS & ASSOCIATES, INC.
CIVIL ENGINEERS
107 EAST SECOND STREET
GREENVILLE, NC 27858
252-752-4135

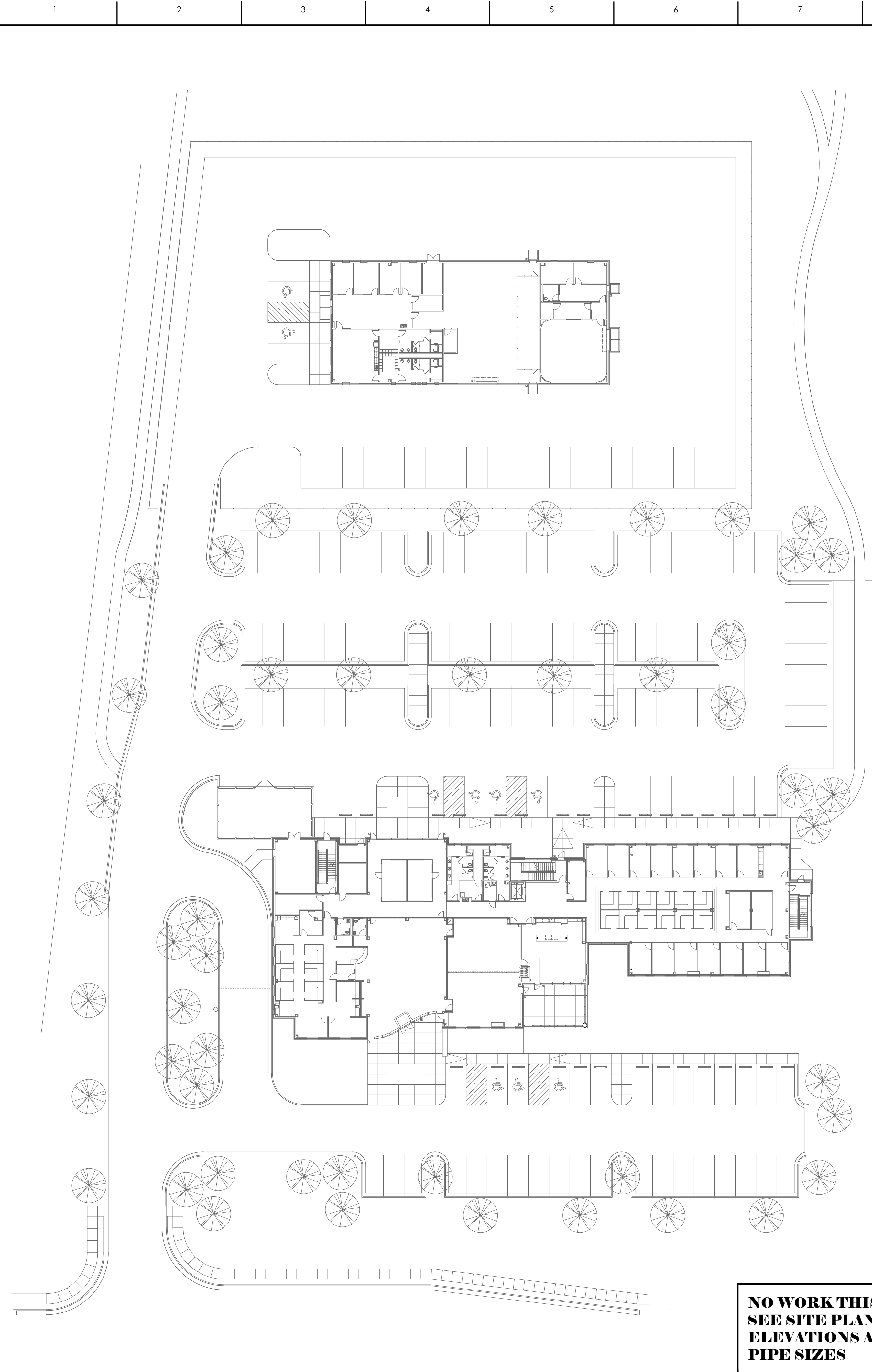
NESER & ROOMSBURG, PA
STRUCTURAL ENGINEERS
748 LORD DUNMORE DRIVE, STE. 101
VIRGINIA BEACH, VA 23464
757-474-0612

ATLANTEC ENGINEERS, PA
PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
919-571-1111

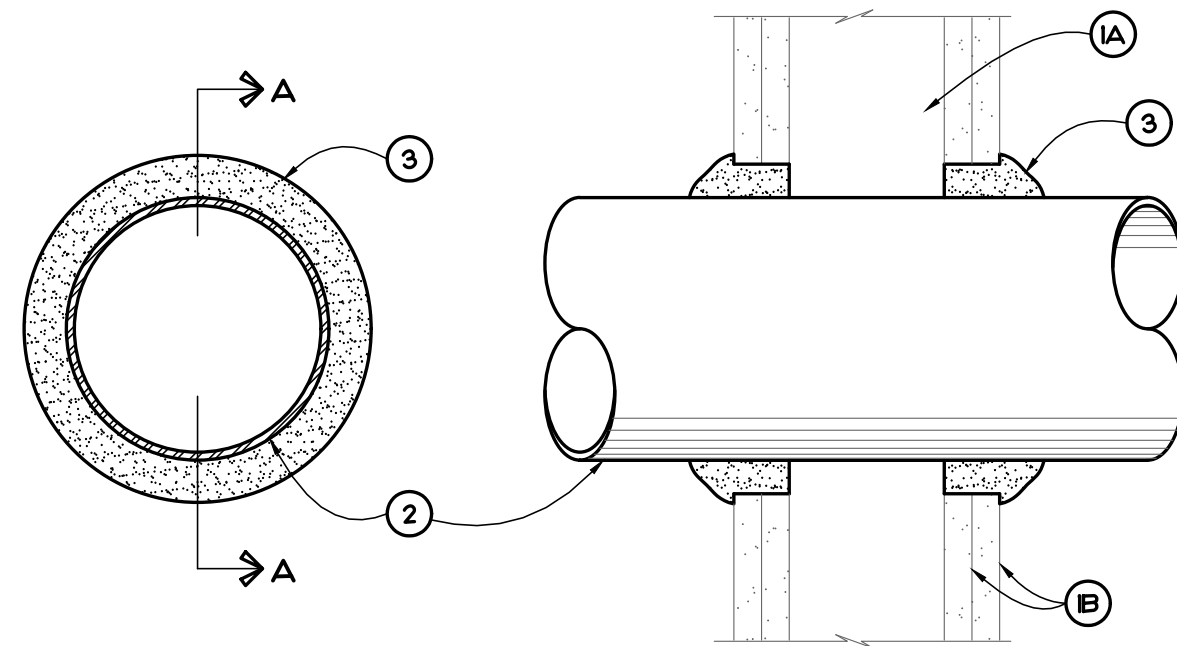




8/14/23

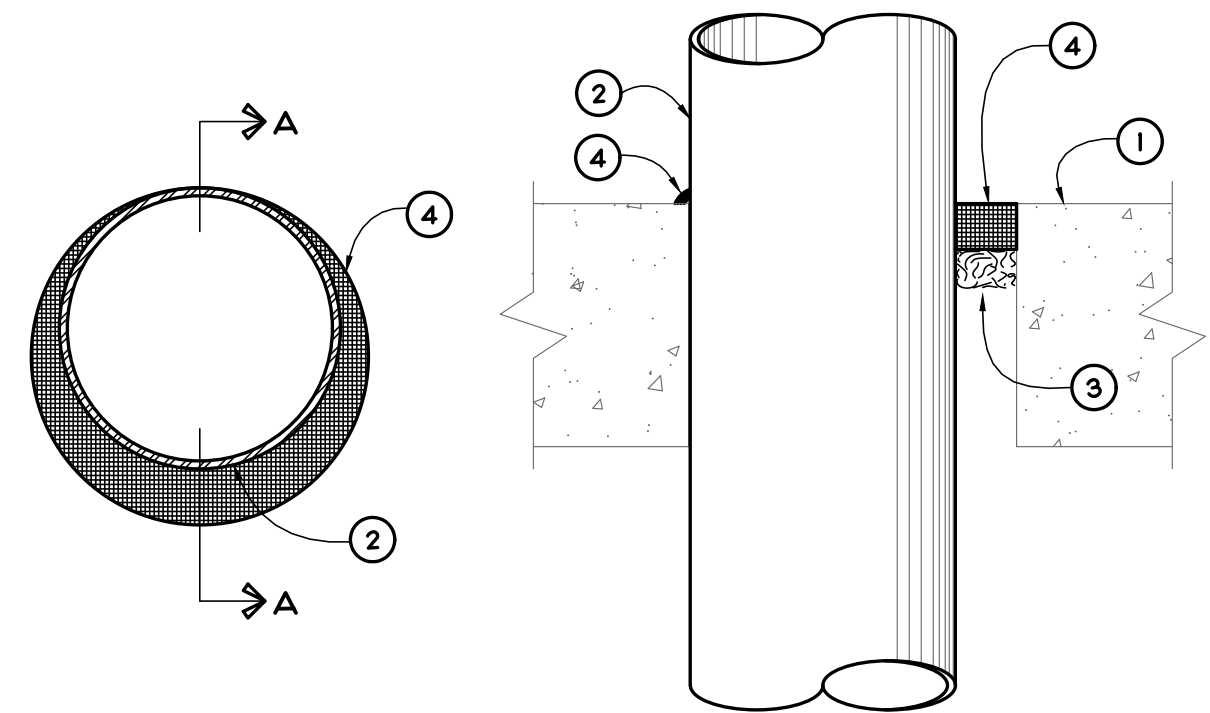


SYSTEM NO. W1001
F RATINGS - 1, 2, 3 AND 4 HOUR (SEE ITEMS 2 AND 3)
T RATINGS - 0, 1, 2, 3 AND 4 HOUR (SEE ITEM 3)
L RATINGS AT AMBIENT - LESS THAN 1 CFM/SQ. FT.
L RATINGS AT 400 F - LESS THAN 1 CFM/SQ. FT.



SECTION A - A

SYSTEM NO. CAJ044
F RATING - 2, 3 AND 4 HOUR (SEE ITEMS 2A AND 4)
T RATING - 0 HOUR
L RATING AT AMBIENT - 2 CFM/SQ. FT.
L RATING AT 400 F - LESS THAN 1 CFM/SQ. FT.
W RATING - CLASS 1 (SEE ITEM 4)



SECTION A - A

- WALL ASSEMBLY - THE 1, 2, 3 OR 4 HOUR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAXIMUM 2 HOUR FIRE RATED ASSEMBLY) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER SPACED 16" ON CENTER WITH NOMINAL 2" x 4" LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MINIMUM 3 5/8" WIDE x 1 3/8" DEEP CHANNELS SPACED MAXIMUM 24" ON CENTER.
 - GYPSUM BOARD - NOMINAL 1/2" OR 5/8" THICK, 4' WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 26".
- THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MINIMUM OF 0" (POINT CONTACT) TO MAXIMUM 2" PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE - NOMINAL 24" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE - NOMINAL 24" DIAMETER (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOMINAL 12" DIAMETER (OR SMALLER) OR CLASS 90 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
 - CONDUIT - NOMINAL 6" DIAMETER (OR SMALLER) STEEL CONDUIT OR NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
 - COPPER TUBING - NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE - NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
 - THROUGH PENETRATING PRODUCT* - FLEXIBLE METAL PIPING - THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:
 - NOMINAL 2" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC.
 - NOMINAL 1" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. TITRELEX COPR A BUNDY CO.
 - NOMINAL 1" DIAMETER (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG INC.
- FILL, VOID OR CAVITY MATERIAL* - CALK OR SEALANT - MINIMUM 5/8", 1 1/4", 1 7/8" AND 2 1/2" THICKNESS OF CALK FOR 1, 2, 3 AND 4 HOUR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MINIMUM 1/4" DIAMETER BEAD OF CALK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW.

MAXIMUM PIPE OR CONDUIT DIAMETER INCHES	F RATING HOUR	T RATING HOUR
1	1 OR 2	0, 1 OR 2
4	3 OR 4	3 OR 4
6	1 OR 2	0
6	3 OR 4	0
12	1 OR 2	0

*WHEN COPPER PIPE IS USED, T RATING IS 0 HOUR.
3M COMPANY - CP 25WB; CALK OR FB-3000 WT SEALANT.
*BEARING THE UL CLASSIFICATION MARKING

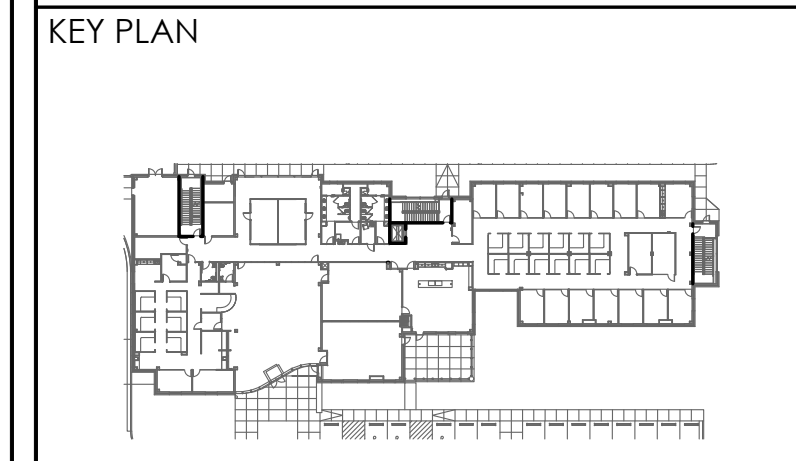
- FLOOR OR WALL ASSEMBLY - LIGHTWEIGHT OR NORMAL WEIGHT (800-150 PCF) CONCRETE, EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MINIMUM THICKNESS OF SOLID CONCRETE FLOOR OR WALL ASSEMBLY IS 4 1/2". FLOOR MAY ALSO BE CONSTRUCTED OF ANY MINIMUM 6" THICK UL CLASSIFIED HOLLOW CORE PRECAST CONCRETE UNITS. WHEN FLOOR IS CONSTRUCTED OF HOLLOW CORE PRECAST CONCRETE UNITS, PACKING MATERIAL (ITEM 3) AND CALK/FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAXIMUM DIAMETER OF OPENING IS IN SOLID LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR IS 32" MAXIMUM DIAMETER OF OPENING IN FLOOR CONSTRUCTED OF HOLLOW-CORE PRECAST CONCRETE UNITS IS 7". SEE CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- STEEL SLEEVE (OPTIONAL, NOT SHOWN) - MAXIMUM 6" ID (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAXIMUM OF 2" ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. MAXIMUM 16" ID (OR SMALLER) MINIMUM 0.028 WALL THICKNESS (OR HEAVIER) GALVANIZED STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAXIMUM OF 1/2" BEYOND EITHER SURFACE OF FLOOR OR WALL.
- THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. MAXIMUM ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND EDGE OF THROUGH OPENING OR SLEEVE IS DEPENDENT ON THE PARAMETERS SHOWN IN ITEM 4. MINIMUM ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0" (POINT CONTACT). PIPE CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE - NOMINAL 30" DIAMETER (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE - NOMINAL 30" DIAMETER (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - CONDUIT - NOMINAL 6" DIAMETER (OR SMALLER) RIGID STEEL CONDUIT.
 - CONDUIT - NOMINAL 4" DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
 - COPPER - TUBING NOMINAL 6" DIAMETER (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE.
 - COPPER PIPE - NOMINAL 6" DIAMETER (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOMINAL 1" THICKNESS OF TIGHTLY PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CALK/FILL MATERIAL (ITEM 4).
- FILL, VOID OR CAVITY MATERIAL* - CALK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CALK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL. FLUSH WITH WALL SURFACE AT POINT CONTACT LOCATION BETWEEN PENETRANT AND SLEEVE OR BETWEEN PENETRANT AND CONCRETE. A MINIMUM 1/4" DIAMETER BEAD OF CALK SHALL BE APPLIED AT TOP SURFACE OF FLOOR AND AT BOTH SURFACES OF WALL. THE HOURLY F RATINGS AND THE MINIMUM REQUIRED CALK THICKNESSES ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

MINIMUM FLOOR OR WALL THICKNESS INCHES	NOMINAL PIPE OR CONDUIT DIAMETER INCHES	MAXIMUM ANNULAR SPACE INCHES	MINIMUM CALK THICKNESS INCHES	F RATING
2 1/2	1/2 - 12	1 3/8	1/2	2
2 1/2	1/2 - 12	3 1/4	1	2
4 1/2	1/2 - 6	1 3/8	1/4(a)	2
4 1/2	1/2 - 12	1 1/4	1/2	3
4 1/2	1/2 - 20	2	1	3
4 1/2	1/2 - 20	2	1	3
4 1/2	1/2 - 12	3 1/4	1	3
4 1/2	22 - 30	2	2	3
5 1/2	1/2 - 6	1 3/8	1(b)	4

(a) MINIMUM 2" THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE.
(b) MINIMUM 1" THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MINIMUM 1" THICKNESS OF CALK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY.
3M COMPANY - CP 25WB; CALK OR FB-3000 WT SEALANT. (THE W RATING APPLIES ONLY WHEN FB-3000 WT SEALANT IS USED).
*BEARING THE UL CLASSIFICATION MARKING

**NO WORK THIS PLAN.
SEE SITE PLAN FOR
ELEVATIONS AND
PIPE SIZES**

OVERALL FIRE PROTECTION PLAN (A15)
SCALE: 1" = 30'-0"



NO	REVISION	DATE

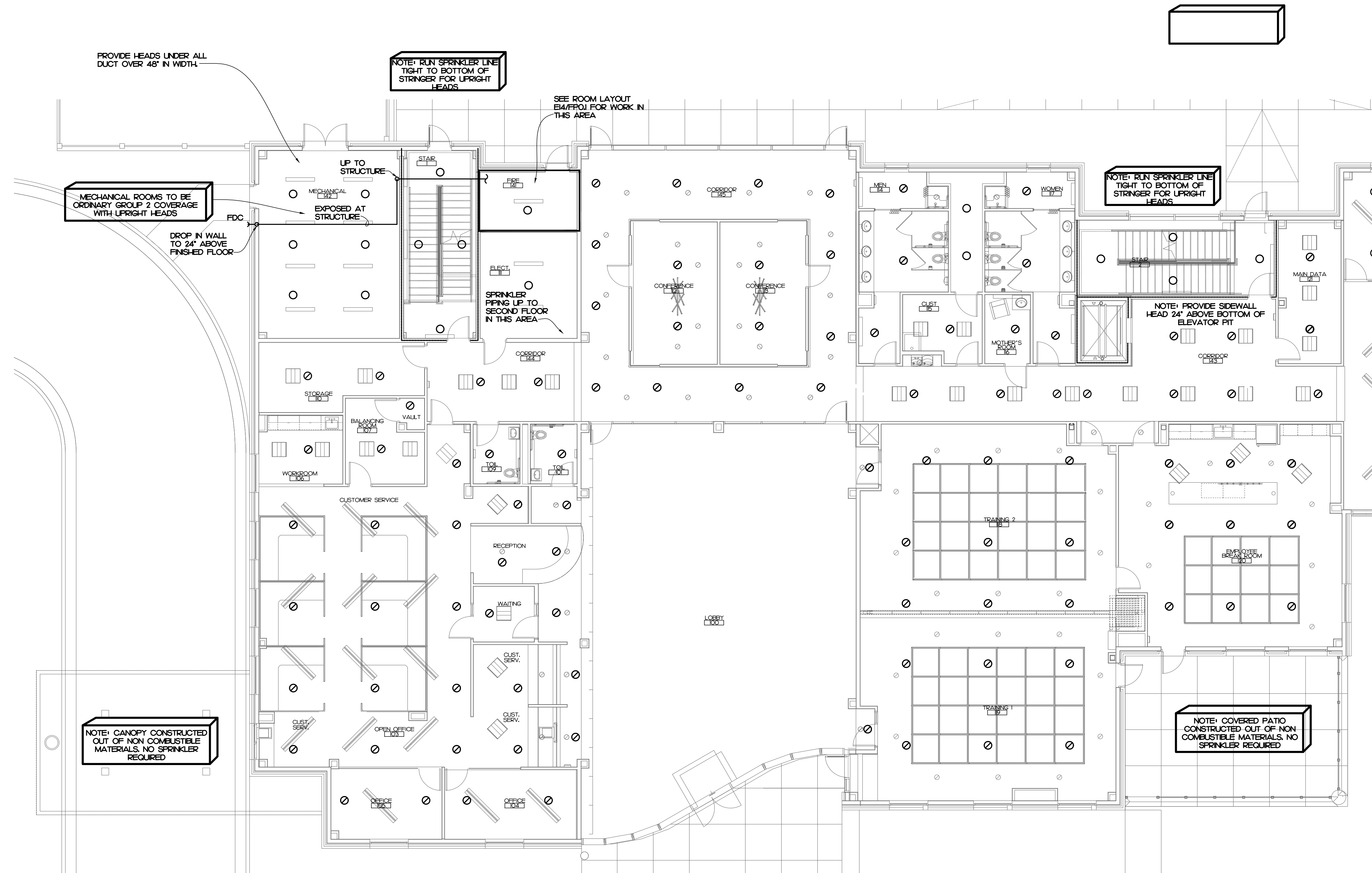
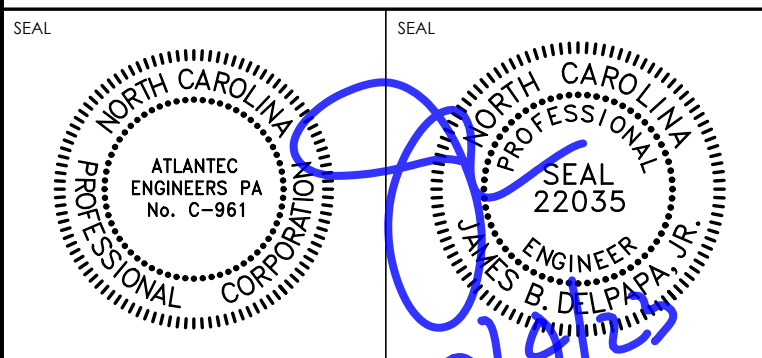
J K F
ARCHITECTURE

625 LYNHDADE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048
STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

DRAWING TITLE
OVERALL FIRE PROTECTION SITE PLAN

SCALE	DRAWING NO.
AS NOTED	
DRAWN	JAD
CHECKED	BWF
DATE	07-15-2023
PROJECT NO.	2022-17

FP0.2



PROVIDE HEADS UNDER ALL DUCT OVER 48" IN WIDTH.

MECHANICAL ROOMS TO BE ORDINARY GROUP 2 COVERAGE WITH UPRIGHT HEADS

DROP IN WALL TO 24" ABOVE FINISHED FLOOR

NOTE: RUN SPRINKLER LINE TIGHT TO BOTTOM OF STRINGER FOR UPRIGHT HEADS

SEE ROOM LAYOUT E4/FPOJ FOR WORK IN THIS AREA

NOTE: RUN SPRINKLER LINE TIGHT TO BOTTOM OF STRINGER FOR UPRIGHT HEADS

NOTE: PROVIDE SIDEWALL HEAD 24" ABOVE BOTTOM OF ELEVATOR PIT

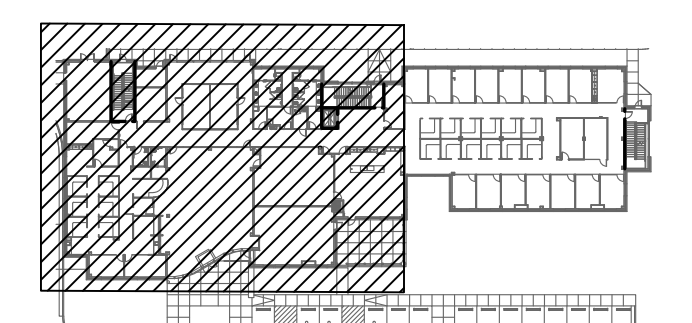
NOTE: CANOPY CONSTRUCTED OUT OF NON COMBUSTIBLE MATERIALS. NO SPRINKLER REQUIRED

NOTE: COVERED PATIO CONSTRUCTED OUT OF NON COMBUSTIBLE MATERIALS. NO SPRINKLER REQUIRED

NOTE: LIGHT COVERAGE PROVIDED UNLESS OTHERWISE NOTED

NOTE: SEE ARCHITECTURAL PLANS FOR ALL SECTIONS, AND BUILDING ELEVATIONS

KEY PLAN



NO	REVISION	DATE

J K F
 ARCHITECTURE

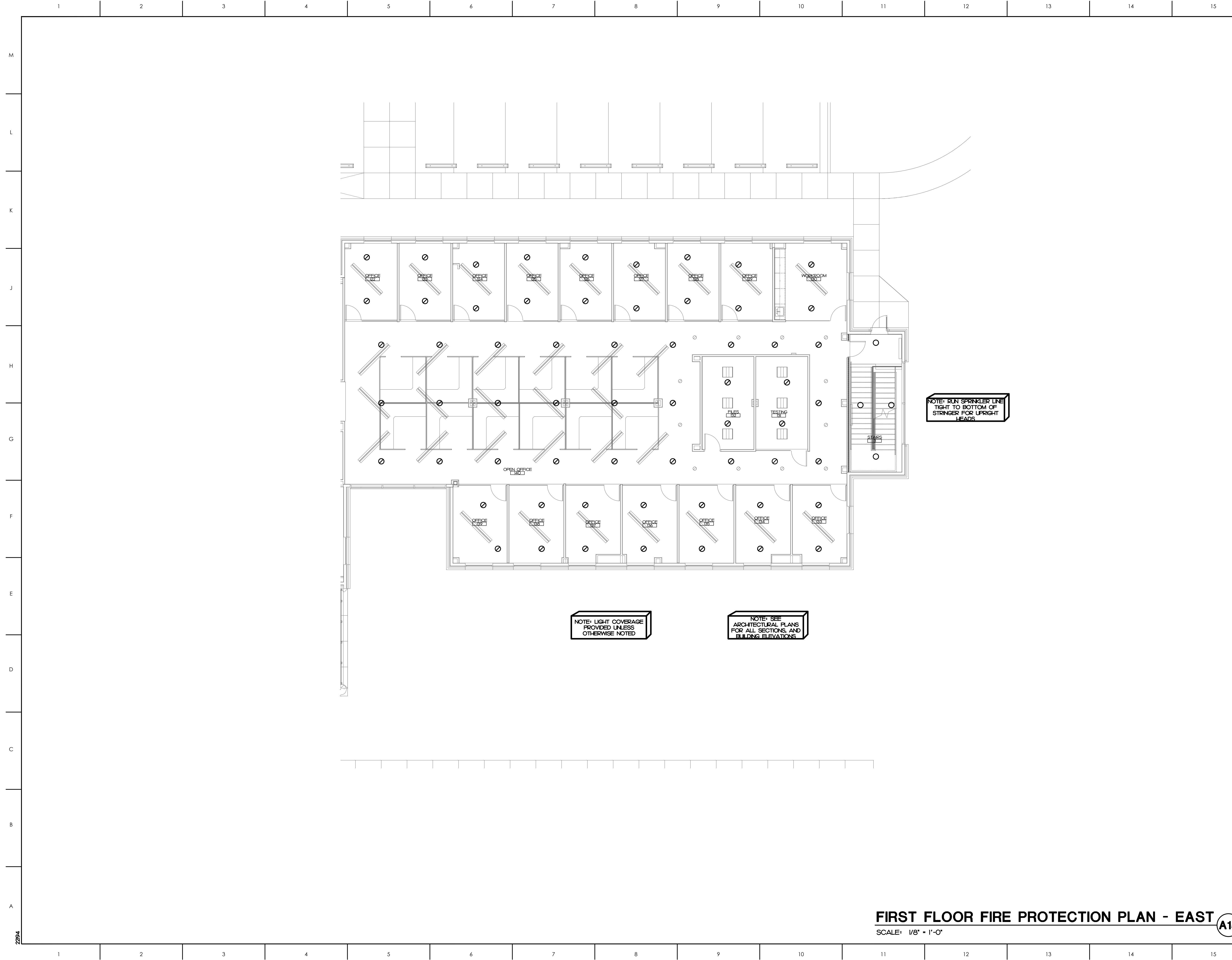
625 LYNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1048

STAR COMMUNICATIONS NEW HEADQUARTERS
 CLINTON, NC

DRAWING TITLE
 FIRST FLOOR FIRE PROTECTION HEAD PLAN - WEST

SCALE	AS NOTED	DRAWING NO FP1.11
DRAWN	JAD	
CHECKED	BWF	
DATE	07-15-2023	
PROJECT NO.	2022-17	

FIRST FLOOR FIRE PROTECTION PLAN - WEST **A15**
 SCALE: 1/8" = 1'-0"



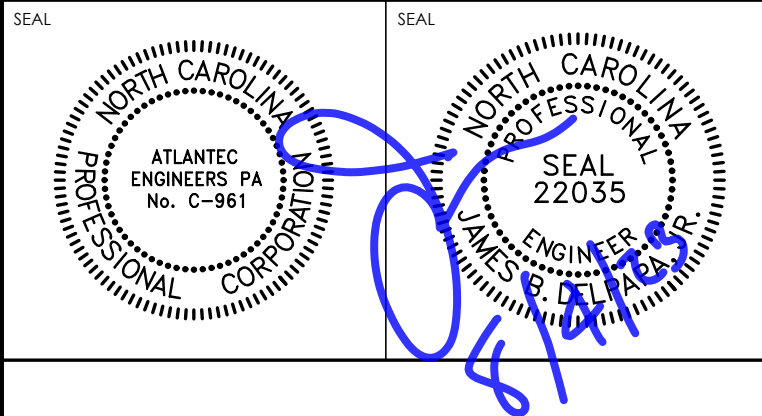
NOTE: RUN SPRINKLER LINE TIGHT TO BOTTOM OF STRINGER FOR UPRIGHT LEADS.

NOTE: LIGHT COVERAGE PROVIDED UNLESS OTHERWISE NOTED.

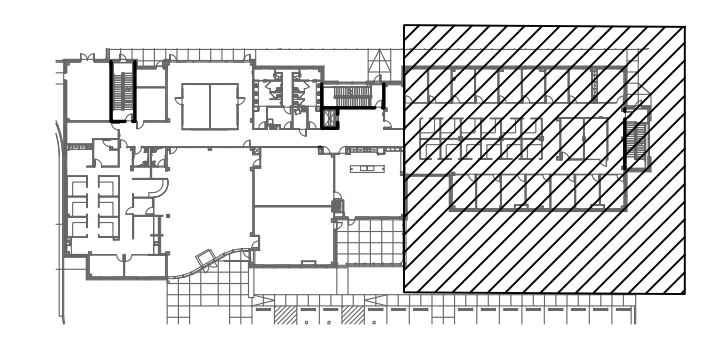
NOTE: SEE ARCHITECTURAL PLANS FOR ALL SECTIONS, AND BUILDING ELEVATIONS.

FIRST FLOOR FIRE PROTECTION PLAN - EAST A15
 SCALE: 1/8" = 1'-0"

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 RALEIGH, NC 27612
 PH: (919) 571-1111
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 (252) 527-9336



KEY PLAN



NO	REVISION	DATE

JKF
 ARCHITECTURE

625 LYNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1048

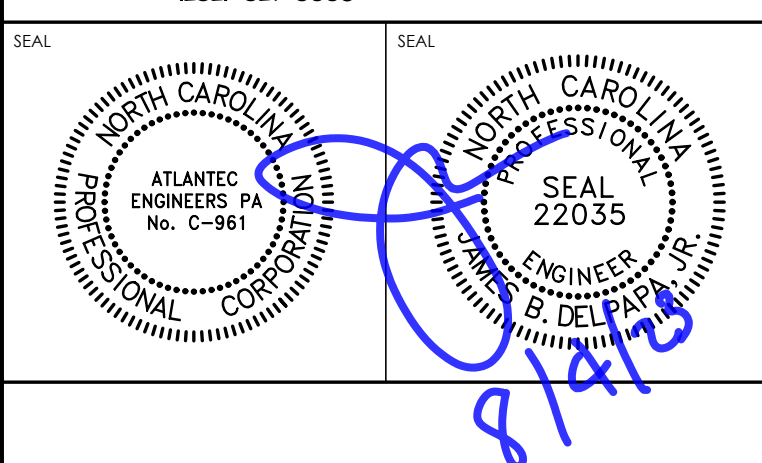
STAR COMMUNICATIONS NEW HEADQUARTERS
 CLINTON, NC

DRAWING TITLE
 FIRST FLOOR FIRE PROTECTION HEAD PLAN - EAST

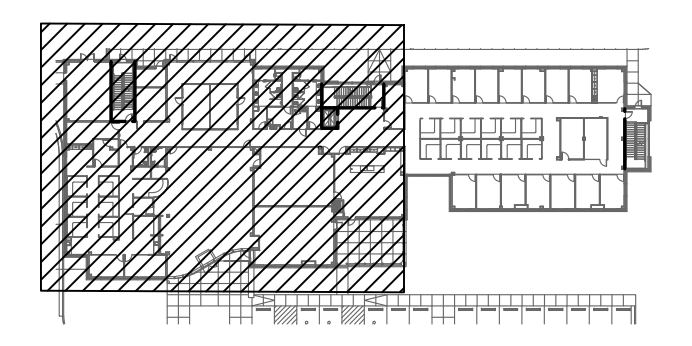
SCALE	AS NOTED	FP1.12
DRAWN	JAD	
CHECKED	BWF	
DATE	07-15-2023	
PROJECT NO.	2022-17	



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KEY PLAN



NO	REVISION	DATE

J K F
 ARCHITECTURE

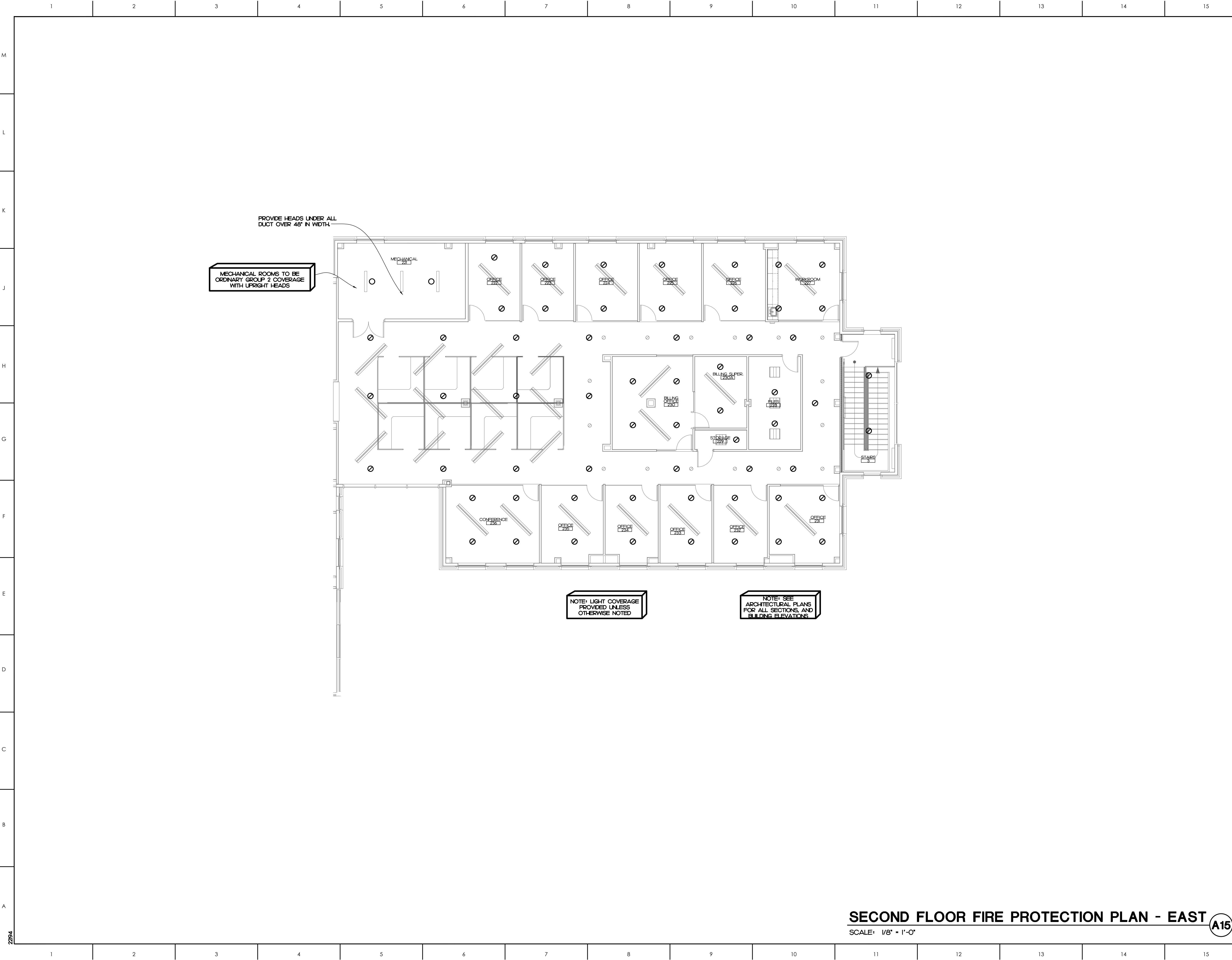
625 LYNDALE CT., SUITE F, GREENVILLE, NC 27838 252-355-1048

STAR COMMUNICATIONS NEW HEADQUARTERS
 CLINTON, NC

DRAWING TITLE
**SECOND FLOOR
 FIRE PROTECTION HEAD
 PLAN - WEST**

SCALE	AS NOTED	DRAWING NO. FP1.21
DRAWN	JAD	
CHECKED	BWF	
DATE	07-15-2023	
PROJECT NO.	2022-17	

SECOND FLOOR FIRE PROTECTION PLAN - WEST **A15**
 SCALE: 1/8" = 1'-0"

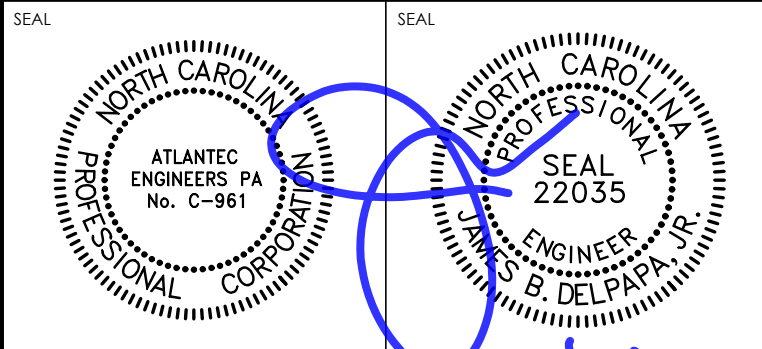


MECHANICAL ROOMS TO BE ORDINARY GROUP 2 COVERAGE WITH UPRIGHT HEADS

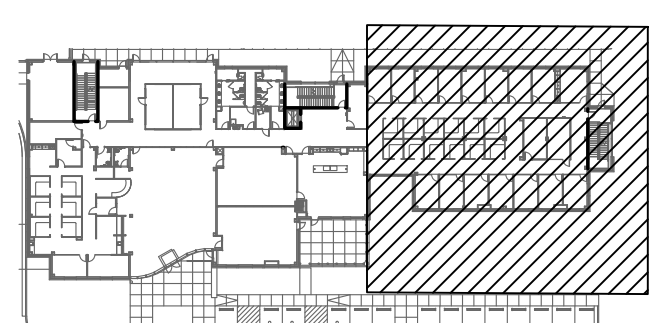
NOTE: LIGHT COVERAGE PROVIDED UNLESS OTHERWISE NOTED

NOTE: SEE ARCHITECTURAL PLANS FOR ALL SECTIONS, AND BUILDING ELEVATIONS.

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KEY PLAN



NO	REVISION	DATE

JKF
ARCHITECTURE

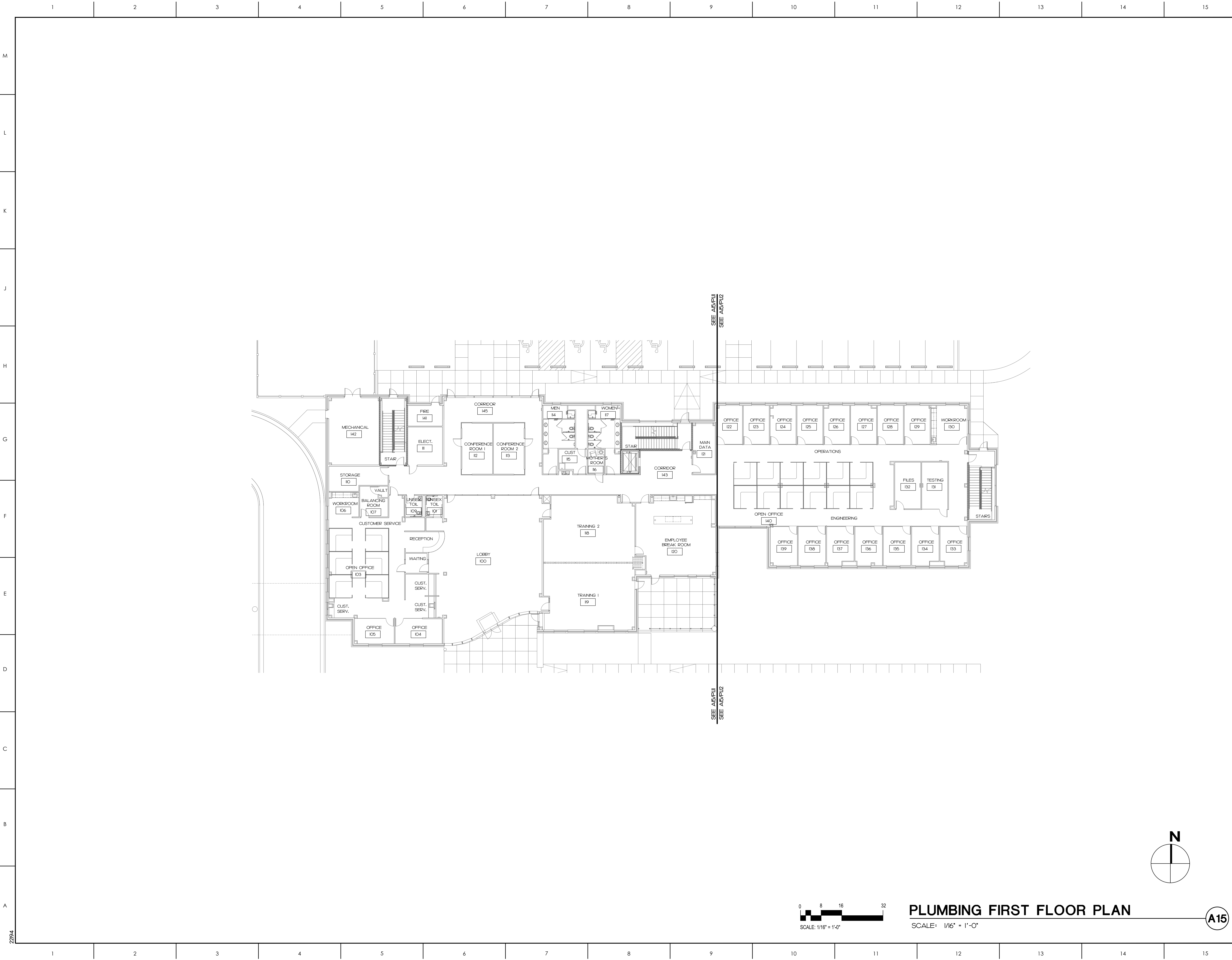
625 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1048

STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

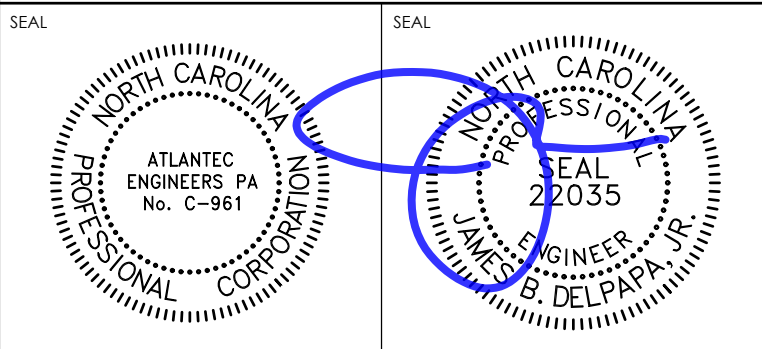
DRAWING TITLE
SECOND FLOOR FIRE PROTECTION HEAD PLAN - EAST

SCALE	AS NOTED	DRAWING NO. FP1.22
DRAWN	JAD	
CHECKED	BWF	
DATE	07-15-2023	
PROJECT NO.	2022-17	

SECOND FLOOR FIRE PROTECTION PLAN - EAST **A15**
SCALE: 1/8" = 1'-0"

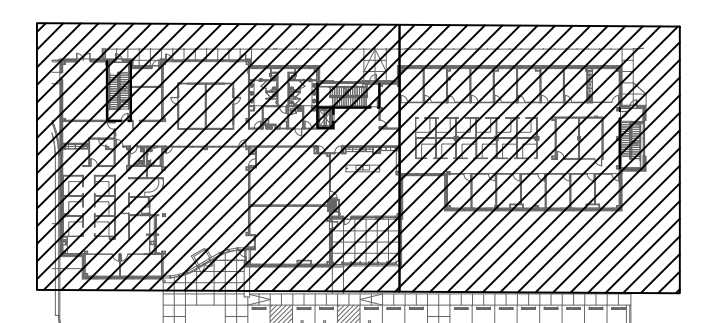


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8/4/23

KEY PLAN



NO	REVISION	DATE

SEAL

J K F
 ARCHITECTURE

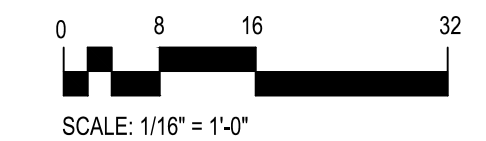
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STAR COMMUNICATIONS NEW HEADQUARTERS
 CLINTON, NC

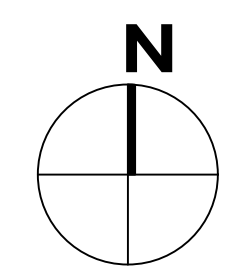
DRAWING TITLE
PLUMBING FIRST FLOOR PLAN

SCALE	AS NOTED	DRAWING NO P1.1
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	

A15



PLUMBING FIRST FLOOR PLAN
 SCALE: 1/16" = 1'-0"



PLUMBING KEY NOTES

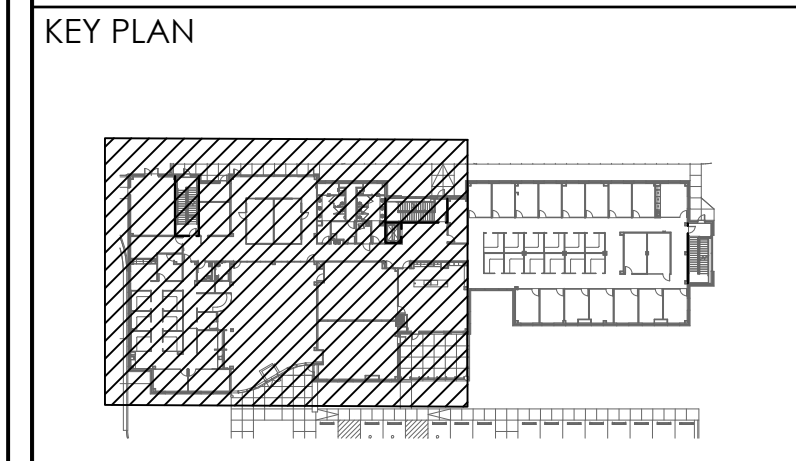
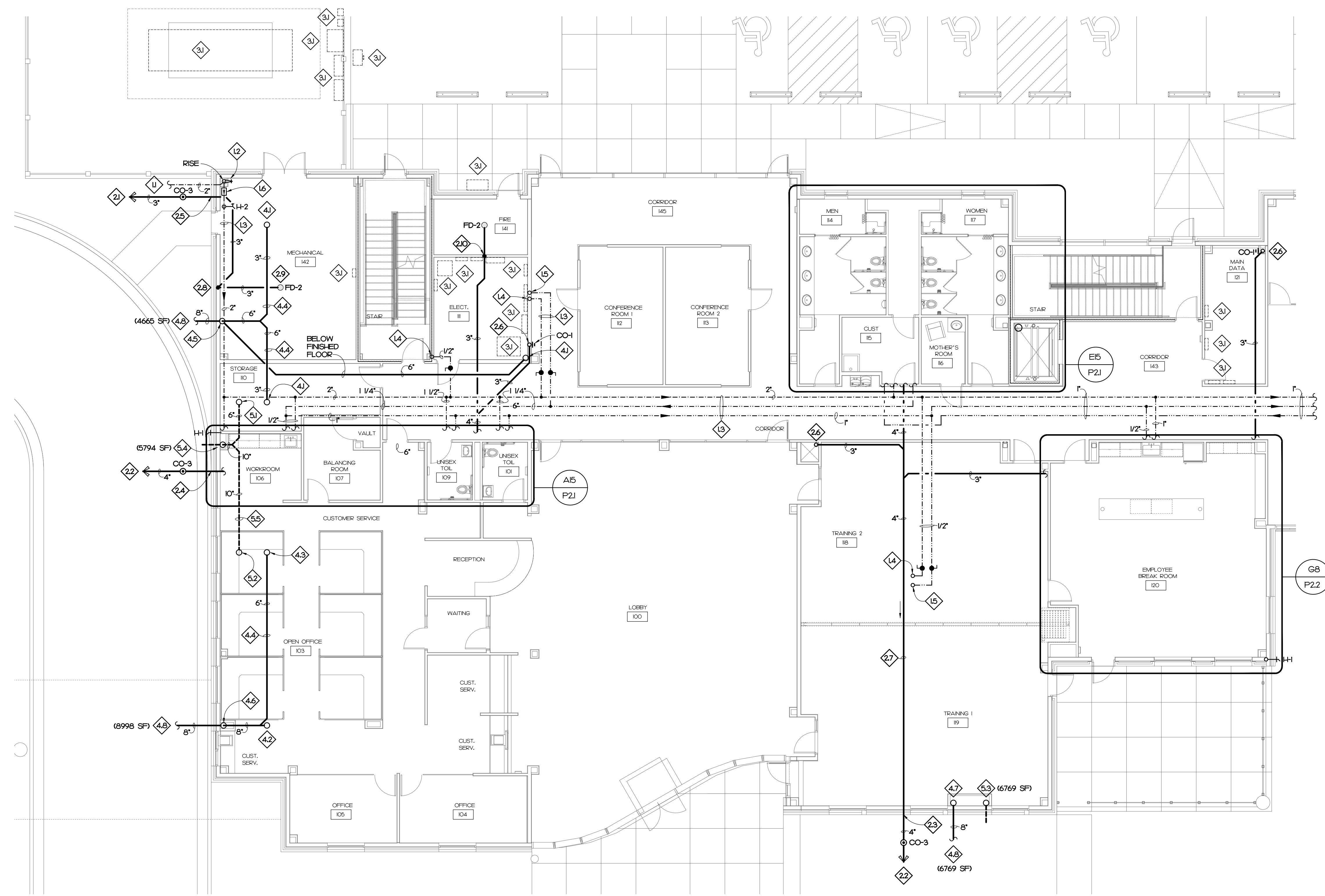
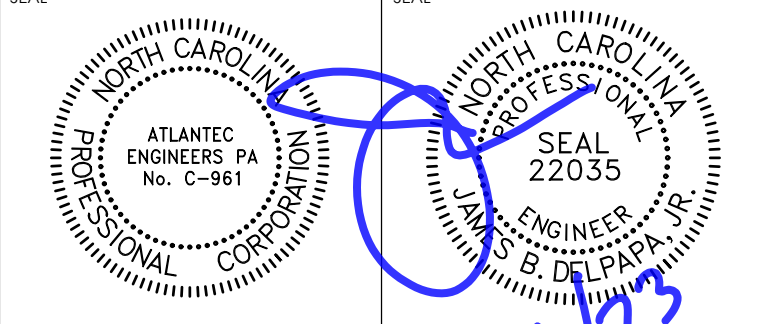
- 1.1 2" COLD WATER PIPE BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK BEGINS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION, WATER METER AND BACKFLOW PREVENTOR.
- 1.2 MAIN SHUT OFF VALVE.
- 1.3 WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
- 1.4 1/2" COLD WATER UP TO SECOND FLOOR.
- 1.5 1/2" HOT WATER UP TO SECOND FLOOR.
- 1.6 WATER FLOW METER, ONICON MODEL NO. F-3500. SEE DETAIL A8/P4.2.
- 2.1 3" SANITARY SEWER PIPE BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
- 2.2 4" SANITARY SEWER PIPE BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.

- 2.3 INVERT ELEVATION IS TO BE 2.46' BELOW FINISHED FLOOR.
- 2.4 INVERT ELEVATION IS TO BE 2.04' BELOW FINISHED FLOOR.
- 2.5 INVERT ELEVATION IS TO BE 1.73' BELOW FINISHED FLOOR.
- 2.6 3" WASTE STACK DOWN FROM SECOND FLOOR.
- 2.7 SANITARY SEWER PIPE BELOW FINISHED FLOOR.
- 2.8 SANITARY TEE
- 2.9 COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- 2.10 AIR ADMITTANCE VALVE.
- 3.1 ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR.
- 4.1 6" ROOF DRAIN LEADER DOWN FROM ROOF.

- 4.2 4" ROOF DRAIN LEADER DOWN FROM ROOF.
- 4.3 6" ROOF DRAIN LEADER DOWN FROM ROOF.
- 4.4 ROUTE ROOF DRAIN LEADER ABOVE FINISHED CEILING AT 2% SLOPE.
- 4.5 6" ROOF DRAIN LEADER DOWN FROM ABOVE FINISHED CEILING, CONTINUE DOWN TO BELOW FINISHED GRADE.
- 4.6 8" ROOF DRAIN LEADER DOWN FROM ABOVE FINISHED CEILING, CONTINUE DOWN TO BELOW FINISHED GRADE.
- 4.7 8" ROOF DRAIN LEADER DOWN FROM SECOND FLOOR, CONTINUE DOWN TO BELOW FINISHED GRADE.
- 4.8 ROOF DRAIN LEADER BELOW FINISHED GRADE TO STORM DRAIN. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
- 5.1 4" OVERFLOW DRAIN LEADER DOWN FROM ROOF.

- 5.2 8" OVERFLOW DRAIN LEADER DOWN FROM ROOF.
- 5.3 8" OVERFLOW DRAIN LEADER DOWN FROM SECOND FLOOR, SPILL ON GRADE.
- 5.4 10" OVERFLOW DRAIN LEADER DOWN FROM ABOVE FINISHED CEILING, SPILL ON GRADE.
- 5.5 ROUTE OVERFLOW DRAIN LEADER ABOVE FINISHED CEILING AT 2% SLOPE.

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NO	REVISION	DATE

J K F
 ARCHITECTURE

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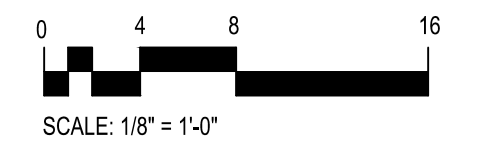
STAR COMMUNICATIONS NEW HEADQUARTERS
 CLINTON, NC

DRAWING TITLE
PLUMBING FIRST FLOOR PLAN WEST

SCALE	AS NOTED	DRAWING NO.	P1.11
DRAWN	DRD		
CHECKED	JBD		
DATE	07-15-2023		
PROJECT NO.	2022-17		

PLUMBING PIPING FIRST FLOOR PLAN - WEST
 SCALE: 1/8" = 1'-0"

A15

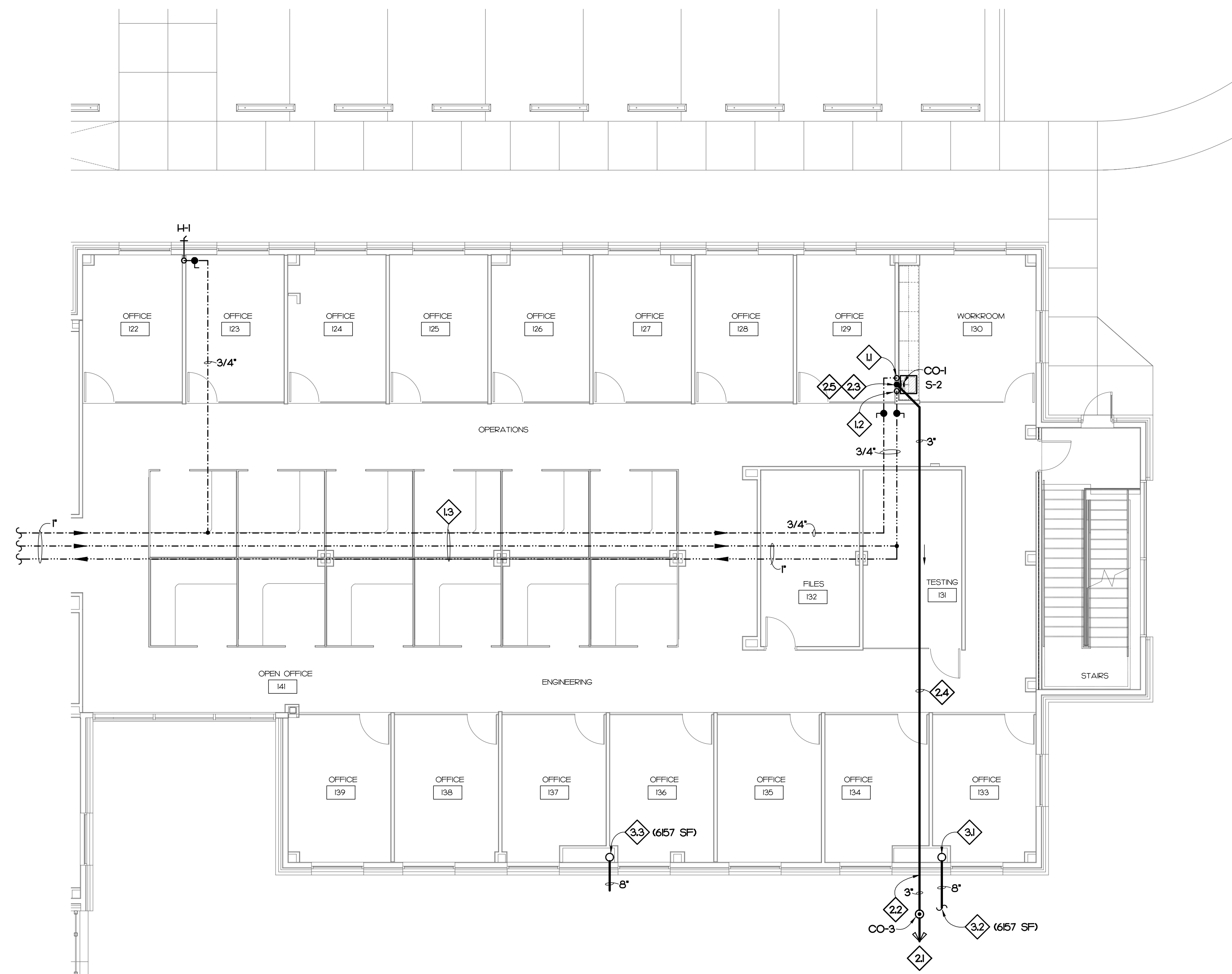
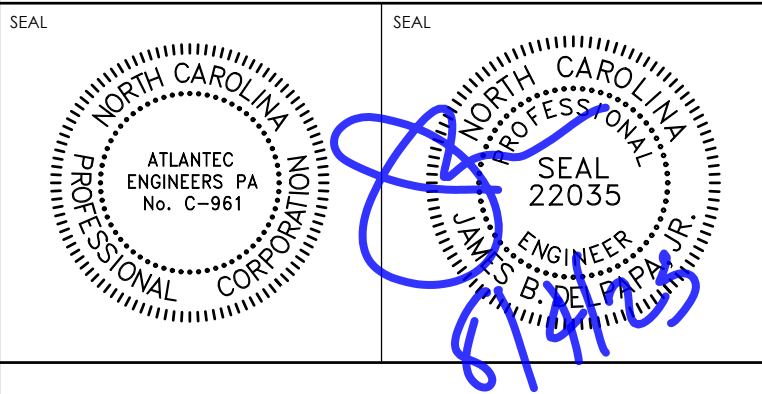


PLUMBING KEY NOTES

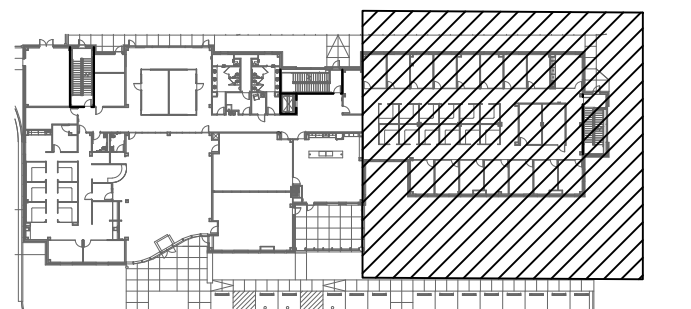
- 11 1/2" COLD WATER UP TO SECOND FLOOR.
- 12 1/2" HOT WATER UP TO SECOND FLOOR.
- 13 WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
- 21 3" SANITARY SEWER PIPE BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
- 22 INVERT ELEVATION IS TO BE 20" BELOW FINISHED FLOOR.
- 23 2" WASTE STACK DOWN FROM SECOND FLOOR.
- 24 SANITARY SEWER PIPE BELOW FINISHED FLOOR.
- 25 AIR ADMITTANCE VALVE.
- 31 8" ROOF DRAIN LEADER DOWN FROM SECOND FLOOR, CONTINUE DOWN TO BELOW FINISHED GRADE.
- 32 ROOF DRAIN LEADER BELOW FINISHED GRADE TO STORM DRAIN. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
- 33 8" OVERFLOW DRAIN LEADER DOWN FROM SECOND FLOOR, SPILL ON GRADE.

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KEY PLAN



NO	REVISION	DATE

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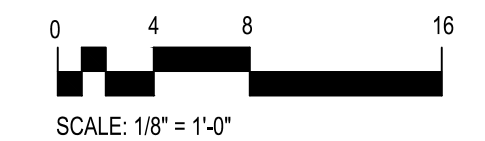
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STAR COMMUNICATIONS NEW
HEADQUARTERS
CLINTON, NC

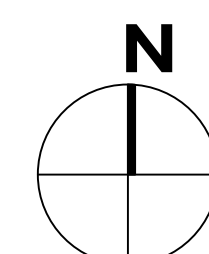
DRAWING TITLE
PLUMBING
FIRST FLOOR PLAN
EAST

SCALE	AS NOTED	DRAWING NO. P1.12
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	

(A15)



PLUMBING PIPING FIRST FLOOR PLAN - EAST
SCALE: 1/8" = 1'-0"

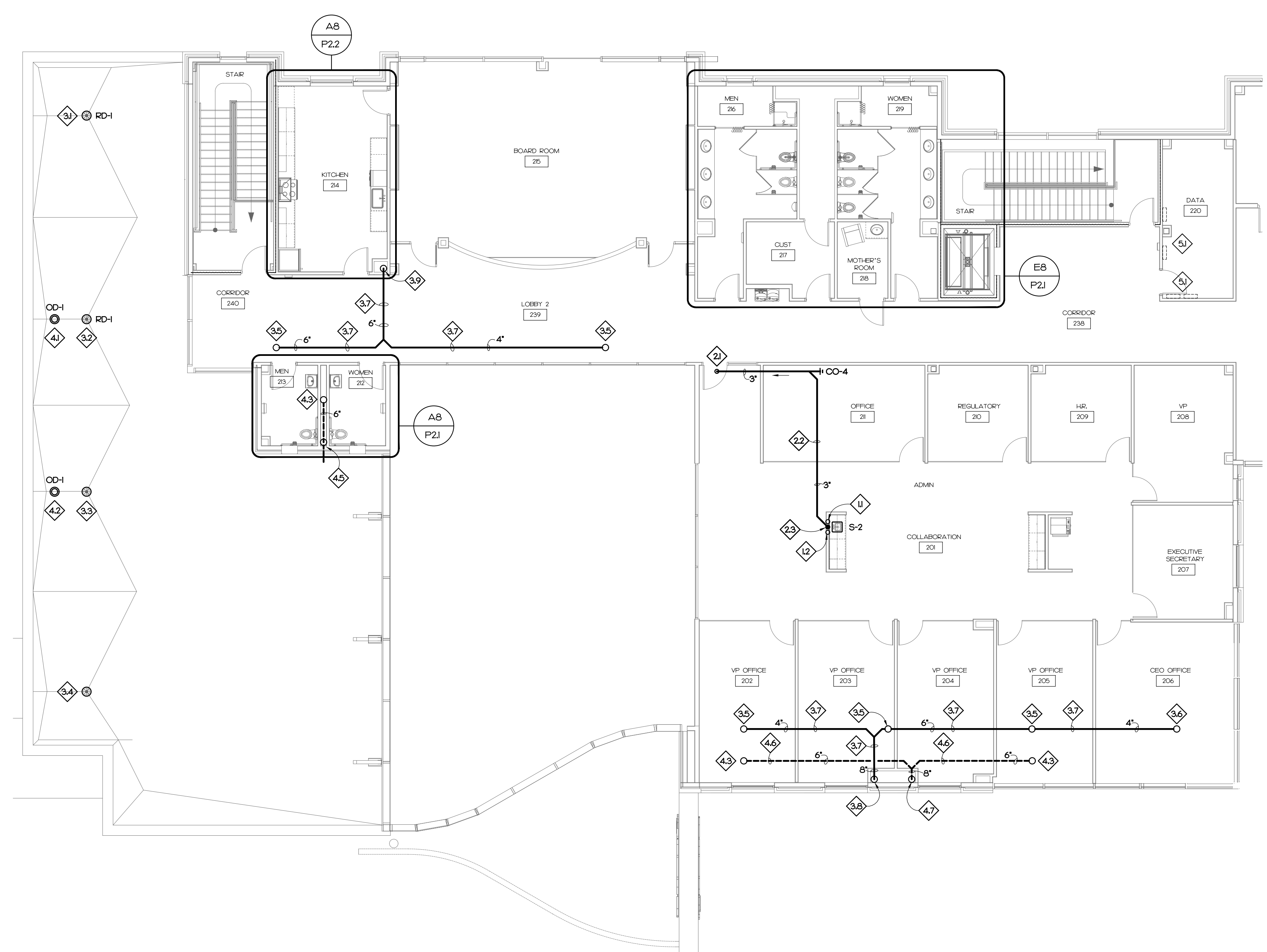
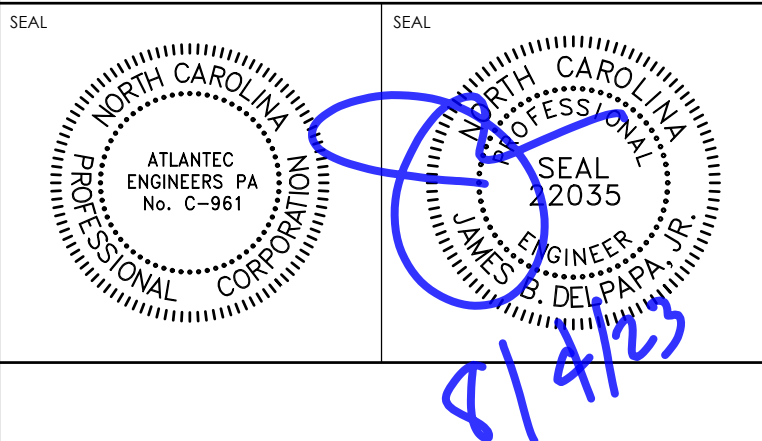


PLUMBING KEY NOTES

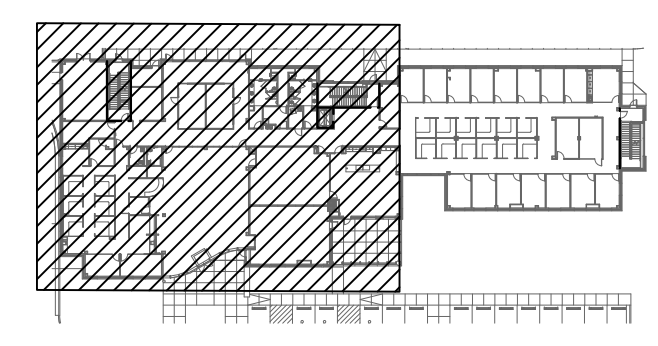
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|--|--|--|
| <ul style="list-style-type: none"> 1.1 1/2" COLD WATER UP FROM FIRST FLOOR. 1.2 1/2" HOT WATER UP FROM FIRST FLOOR. 2.1 3" WASTE STACK DOWN TO FIRST FLOOR. 2.2 SANITARY SEWER PIPE BELOW FINISHED FLOOR. 2.3 AIR ADMITTANCE VALVE. 3.1 3" ROOF DRAIN (643 SQUARE FEET), 3" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. 3.2 3" ROOF DRAIN (890 SQUARE FEET), 3" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. 3.3 6" ROOF DRAIN (5794 SQUARE FEET), 6" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. 3.4 4" ROOF DRAIN (3204 SQUARE FEET), 4" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. 3.5 3" ROOF DRAIN LEADER DOWN FROM ROOF. | <ul style="list-style-type: none"> 3.6 4" ROOF DRAIN LEADER DOWN FROM ROOF. 3.7 ROUTE ROOF DRAIN LEADER ABOVE FINISHED CEILING AT 2% SLOPE. 3.8 8" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. 3.9 6" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. 4.1 4" OVERFLOW DRAIN (533 SQUARE FEET), 4" OVERFLOW DRAIN LEADER DOWN TO FIRST FLOOR. 4.2 8" OVERFLOW DRAIN (8998 SQUARE FEET), 8" OVERFLOW DRAIN LEADER DOWN TO FIRST FLOOR. 4.3 6" OVERFLOW DRAIN LEADER DOWN FROM ROOF. 4.5 ROUTE 6" OVERFLOW DRAIN LEADER DOWN AND SPILL ON ROOF. 4.6 ROUTE OVERFLOW DRAIN LEADER ABOVE FINISHED CEILING AT 2% SLOPE. 4.7 8" OVERFLOW DRAIN LEADER DOWN TO FIRST FLOOR. | <ul style="list-style-type: none"> 5.1 ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR. |
|--|--|--|

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KEY PLAN



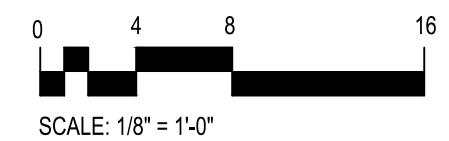
NO	REVISION	DATE

JKF
ARCHITECTURE

STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

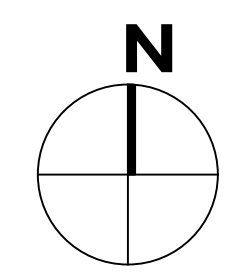
DRAWING TITLE
PLUMBING SECOND FLOOR PLAN WEST

SCALE	AS NOTED	DRAWING NO P1.21
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	



PLUMBING PIPING SECOND FLOOR PLAN - WEST
SCALE: 1/8" = 1'-0"

(A15)

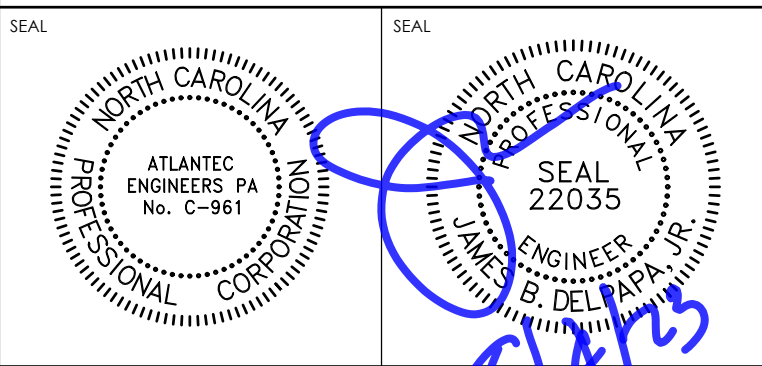


PLUMBING KEY NOTES

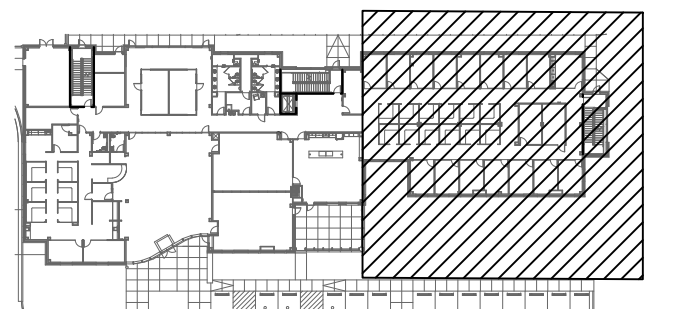
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|--|--|
| <ul style="list-style-type: none"> 1.1 1/2" COLD WATER UP FROM FIRST FLOOR. 1.2 1/2" HOT WATER UP FROM FIRST FLOOR. 2.1 2" WASTE STACK DOWN TO FIRST FLOOR. 2.2 AIR ADMITTANCE VALVE. 2.3 COORDINATE LOCATION WITH MECHANICAL CONTRACTOR. 2.4 3" WASTE LINE DOWN TO FIRST FLOOR. 3.1 3" ROOF DRAIN LEADER DOWN FROM ROOF. 3.2 ROUTE ROOF DRAIN LEADER ABOVE FINISHED CEILING AT 2% SLOPE. 3.3 8" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. | <ul style="list-style-type: none"> 4.1 6" OVERFLOW DRAIN LEADER DOWN FROM ROOF. 4.2 ROUTE OVERFLOW DRAIN LEADER ABOVE FINISHED CEILING AT 2% SLOPE. 4.3 8" OVERFLOW DRAIN LEADER DOWN TO FIRST FLOOR. |
|--|--|

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KEY PLAN



NO	REVISION	DATE

JKF

ARCHITECTURE

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STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

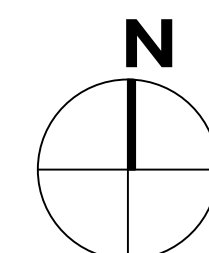
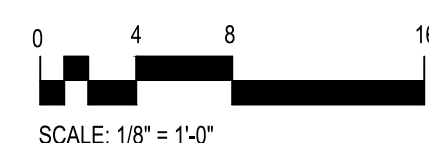
DRAWING TITLE
PLUMBING SECOND FLOOR PLAN EAST

SCALE AS NOTED	P1.22
DRAWN DRD	
CHECKED JBD	
DATE 07-15-2023	
PROJECT NO. 2022-17	

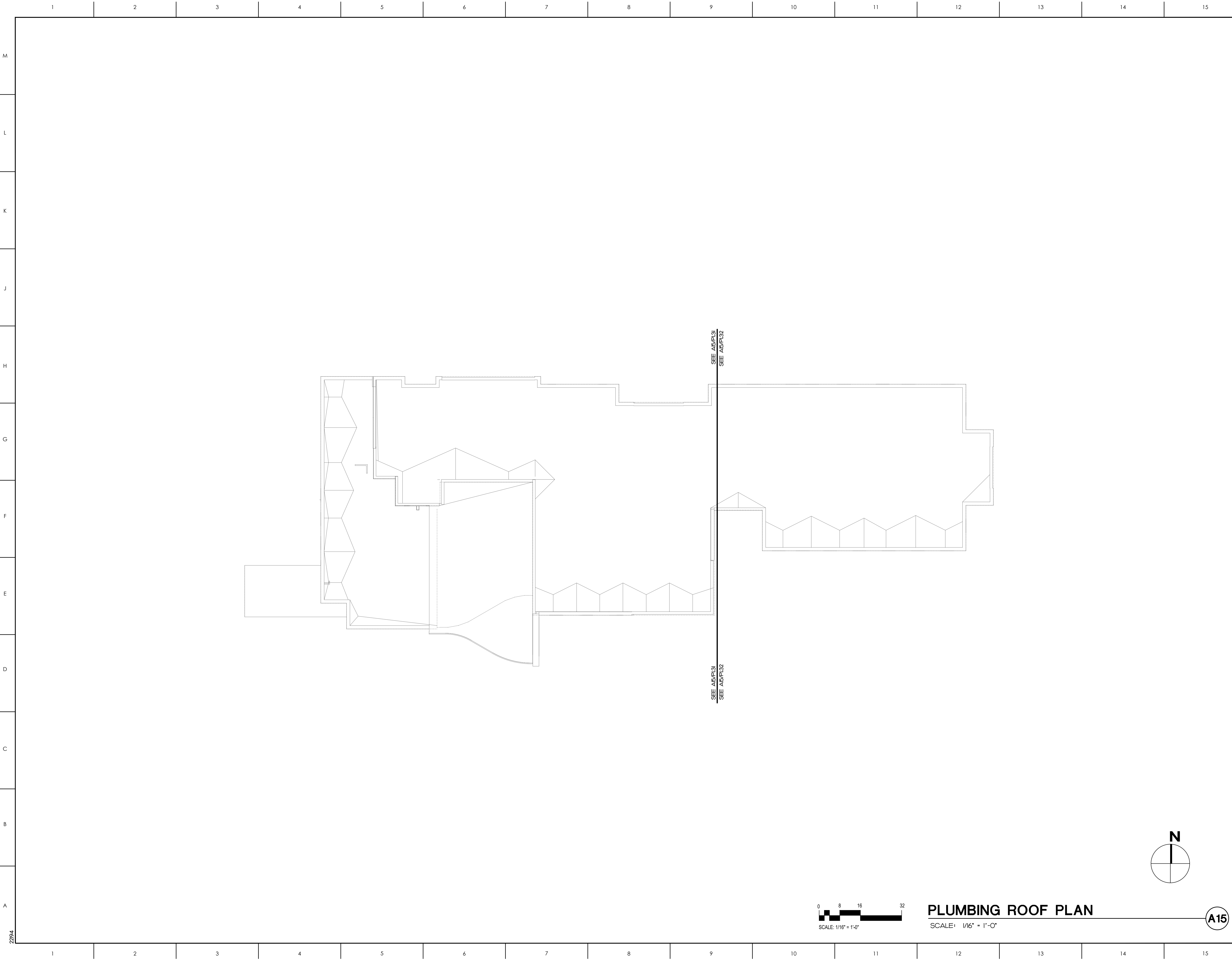
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PLUMBING PIPING SECOND FLOOR PLAN - EAST

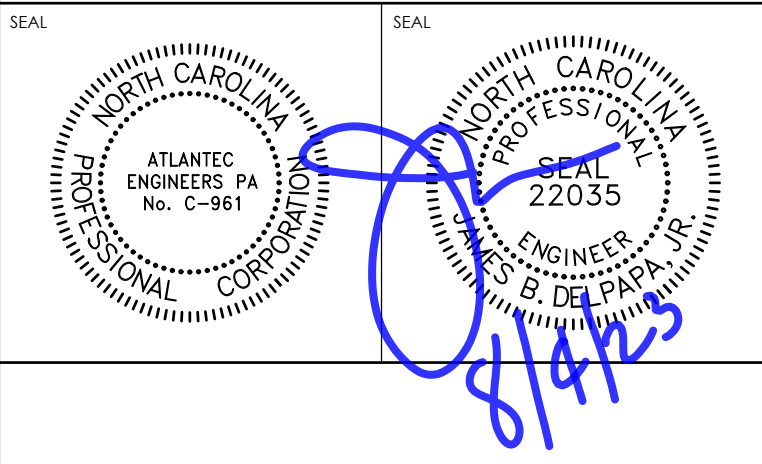
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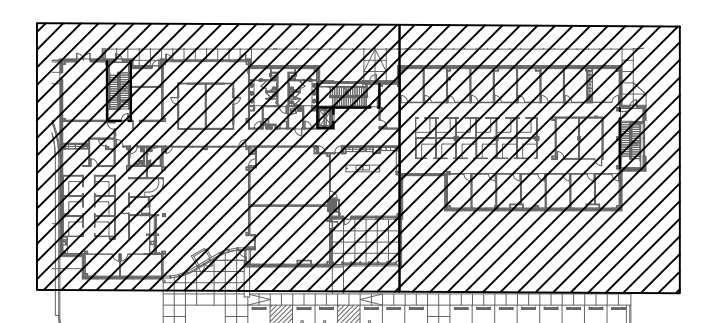
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NO	REVISION	DATE

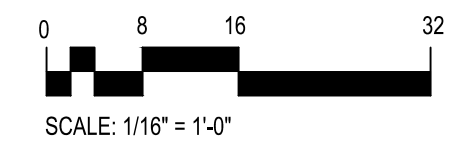
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 ARCHITECTURE

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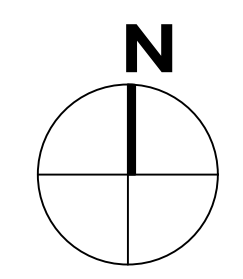
STAR COMMUNICATIONS NEW
 HEADQUARTERS
 CLINTON, NC

DRAWING TITLE
 PLUMBING
 ROOF PLAN

SCALE	AS NOTED	DRAWING NO P1.3
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	



PLUMBING ROOF PLAN
 SCALE: 1/16" = 1'-0"



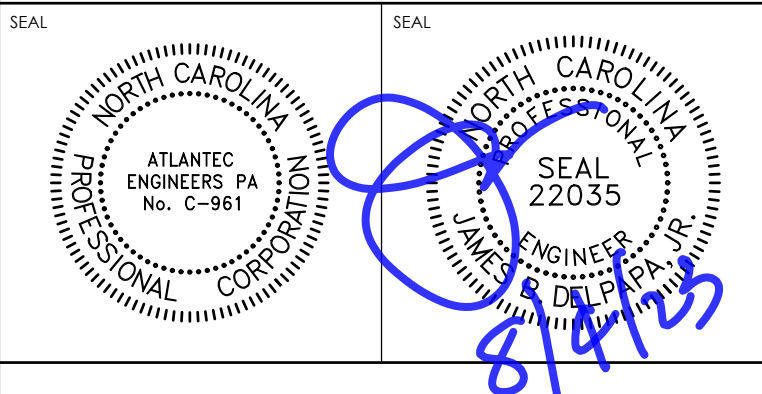
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PLUMBING KEY NOTES

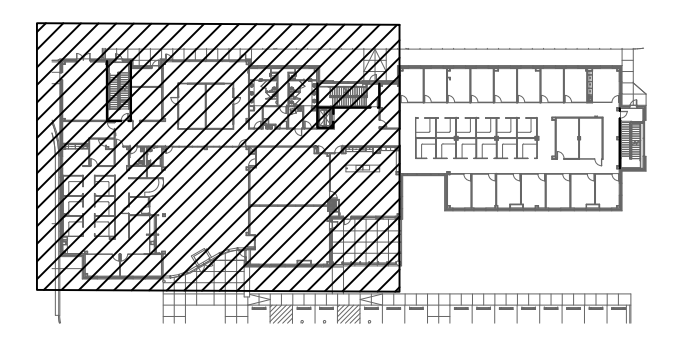
- | | |
|--|--|
| <ul style="list-style-type: none"> 11 3" ROOF DRAIN (643 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. 12 3" ROOF DRAIN (890 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. 13 6" ROOF DRAIN (5794 SQUARE FEET). 6" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. 14 4" ROOF DRAIN (3204 SQUARE FEET). 4" ROOF DRAIN LEADER DOWN TO FIRST FLOOR. 15 3" ROOF DRAIN (566 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO SECOND FLOOR. 16 3" ROOF DRAIN (327 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO SECOND FLOOR. 17 3" ROOF DRAIN (586 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO SECOND FLOOR. 18 3" ROOF DRAIN (643 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO SECOND FLOOR. 19 3" ROOF DRAIN (528 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO SECOND FLOOR. 20 4" ROOF DRAIN (202 SQUARE FEET). 4" ROOF DRAIN LEADER DOWN TO SECOND FLOOR. | <ul style="list-style-type: none"> 21 4" OVERFLOW DRAIN (533 SQUARE FEET). 4" OVERFLOW DRAIN LEADER DOWN TO FIRST FLOOR. 22 8" OVERFLOW DRAIN (8998 SQUARE FEET). 8" OVERFLOW DRAIN LEADER DOWN TO FIRST FLOOR. 23 6" OVERFLOW DRAIN (2893 SQUARE FEET). 6" OVERFLOW DRAIN LEADER DOWN TO FIRST FLOOR. 24 6" OVERFLOW DRAIN (3229 SQUARE FEET). 6" OVERFLOW DRAIN LEADER DOWN TO FIRST FLOOR. 25 6" OVERFLOW DRAIN (3540 SQUARE FEET). 6" OVERFLOW DRAIN LEADER DOWN TO SECOND FLOOR. |
|--|--|

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KEY PLAN



NO	REVISION	DATE

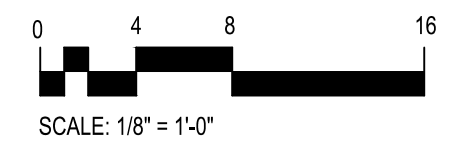
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CLINTON, NC

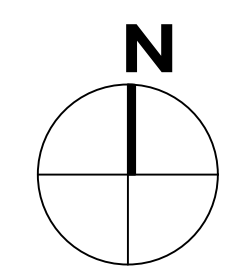
DRAWING TITLE
PLUMBING ROOF PLAN WEST

SCALE	AS NOTED	DRAWING NO. P1.31
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	



PLUMBING PIPING ROOF PLAN - WEST

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



A15

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

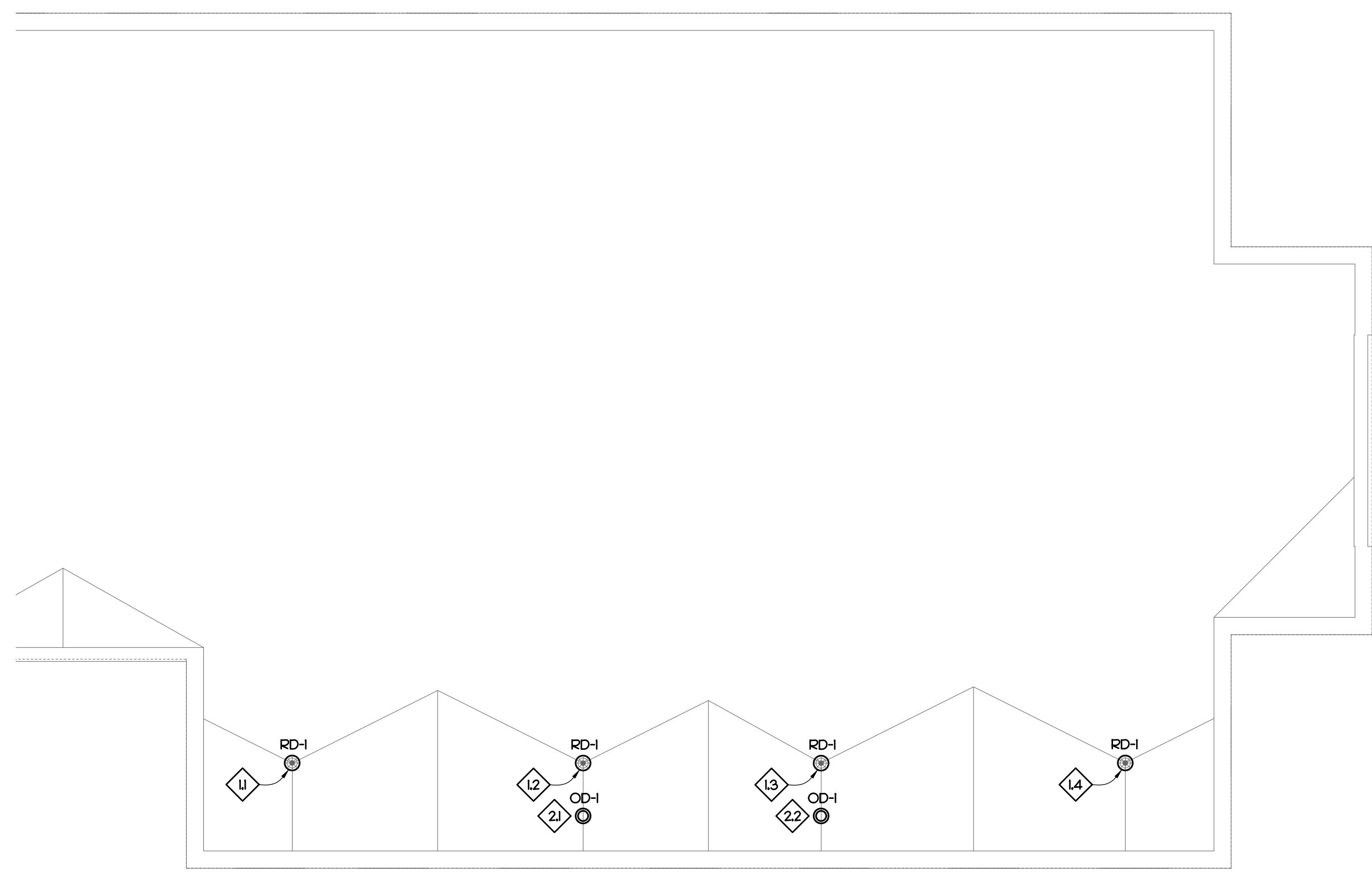
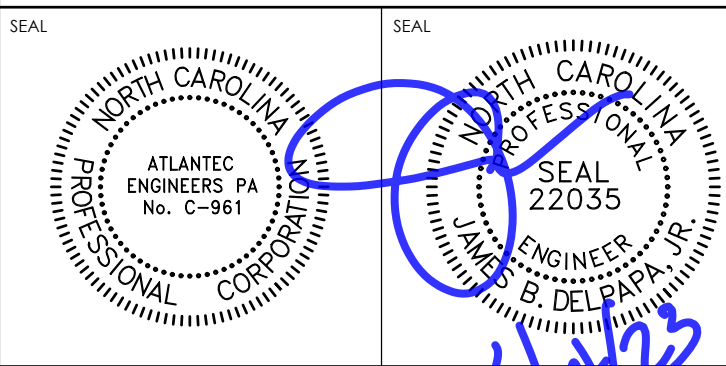
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PLUMBING KEY NOTES

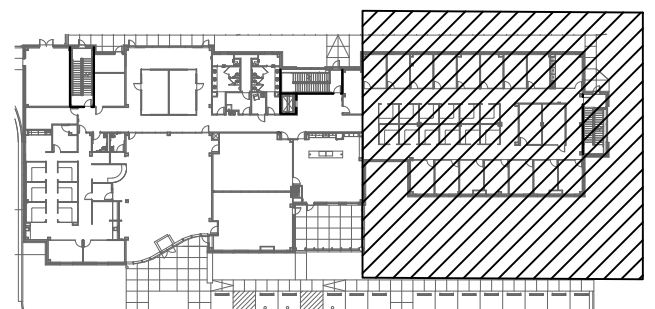
- 11 3" ROOF DRAIN (759 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO SECOND FLOOR.
- 12 3" ROOF DRAIN (366 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO SECOND FLOOR.
- 13 3" ROOF DRAIN (339 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO SECOND FLOOR.
- 14 3" ROOF DRAIN (693 SQUARE FEET). 3" ROOF DRAIN LEADER DOWN TO SECOND FLOOR.
- 21 6" OVERFLOW DRAIN (3125 SQUARE FEET). 6" OVERFLOW DRAIN LEADER DOWN TO SECOND FLOOR.
- 22 6" OVERFLOW DRAIN (3032 SQUARE FEET). 6" OVERFLOW DRAIN LEADER DOWN TO SECOND FLOOR.

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KEY PLAN



NO	REVISION	DATE

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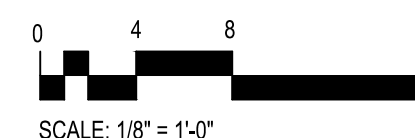
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DRAWING TITLE
PLUMBING ROOF PLAN EAST

SCALE	AS NOTED
DRAWN	DRD
CHECKED	JBD
DATE	07-15-2023
PROJECT NO.	2022-17

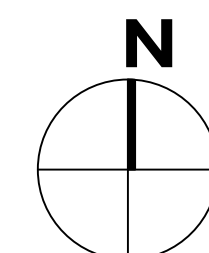
P1.32

A15



PLUMBING PIPING ROOF PLAN - EAST

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



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

2294

PLUMBING KEY NOTES

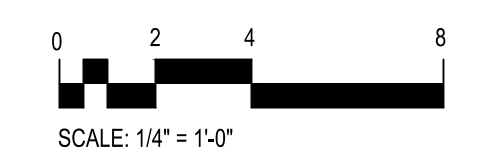
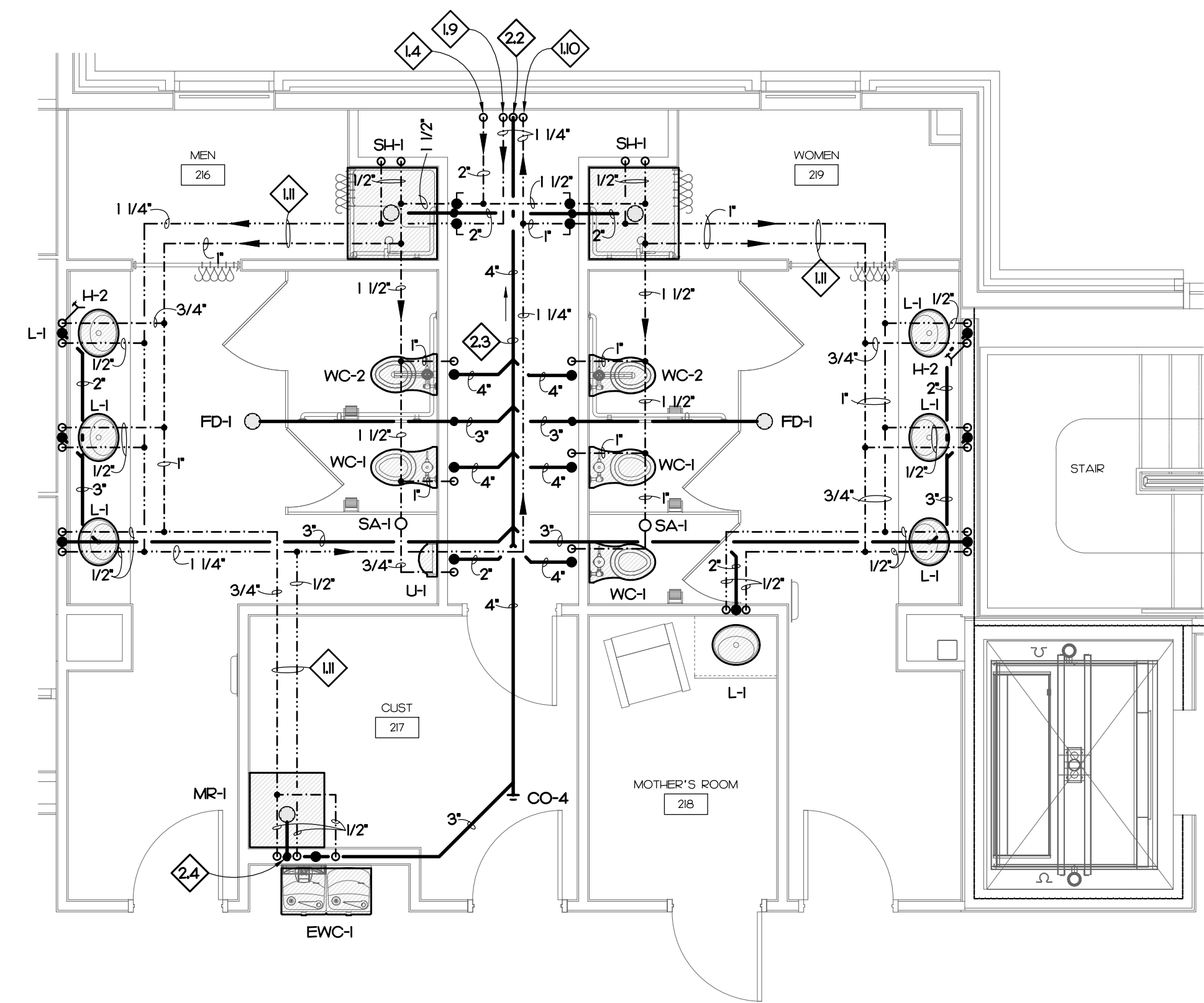
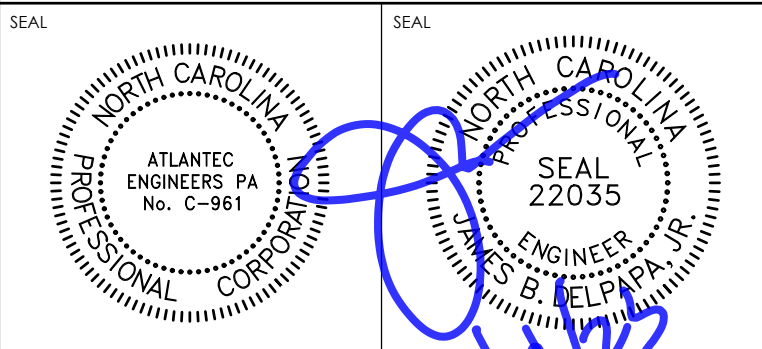
- U 1 1/2" COLD WATER UP TO SECOND FLOOR.
- L2 1 1/2" COLD WATER UP FROM FIRST FLOOR.
- L3 2" COLD WATER UP TO SECOND FLOOR.
- L4 2" COLD WATER UP FROM FIRST FLOOR.
- L5 3/4" HOT WATER UP TO SECOND FLOOR.
- L6 3/4" HOT WATER DOWN FROM SECOND FLOOR.
- L7 1 1/4" HOT WATER UP TO SECOND FLOOR.
- L8 1 1/4" HOT WATER DOWN FROM SECOND FLOOR.
- L9 1 1/4" HOT WATER UP FROM FIRST FLOOR.
- L10 1 1/4" HOT WATER DOWN TO FIRST FLOOR.

- U1 WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
- U2 WATER FLOW METER, ONICON MODEL NO. F-3500. SEE DETAIL A8/P4.2.
- 21 4" WASTE STACK DOWN FROM SECOND FLOOR.
- 22 4" WASTE STACK DOWN TO FIRST FLOOR.
- 23 SANITARY SEWER PIPE BELOW FINISHED FLOOR.
- 24 SANITARY TEE.
- 25 AIR ADMITTANCE VALVE.
- 31 SUMP PUMP (P-2) LOCATED IN SUMP PIT. SUMP PIT BY GENERAL CONTRACTOR.
- 32 2" FORCED MAIN ABOVE FINISHED CEILING.
- 33 ELEVATOR SUMP PUMP ALARM ON WALL.

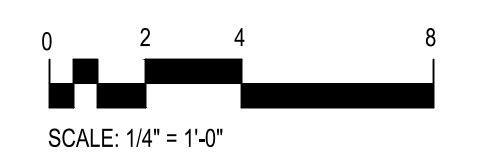
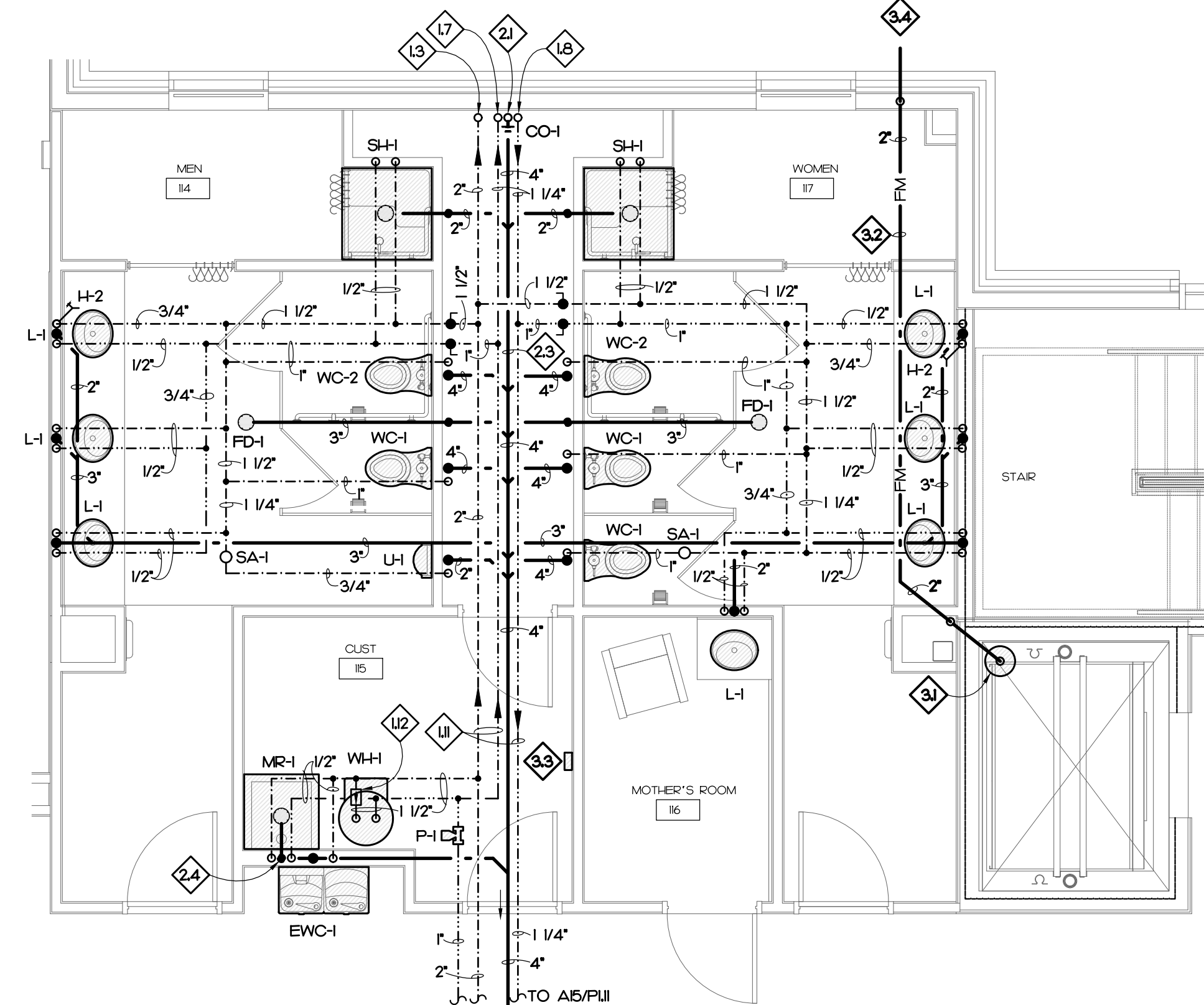
3.4 SPILL ON GRADE.

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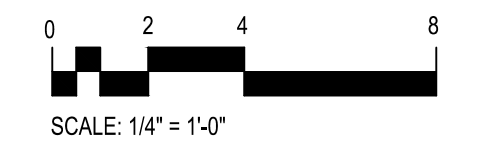
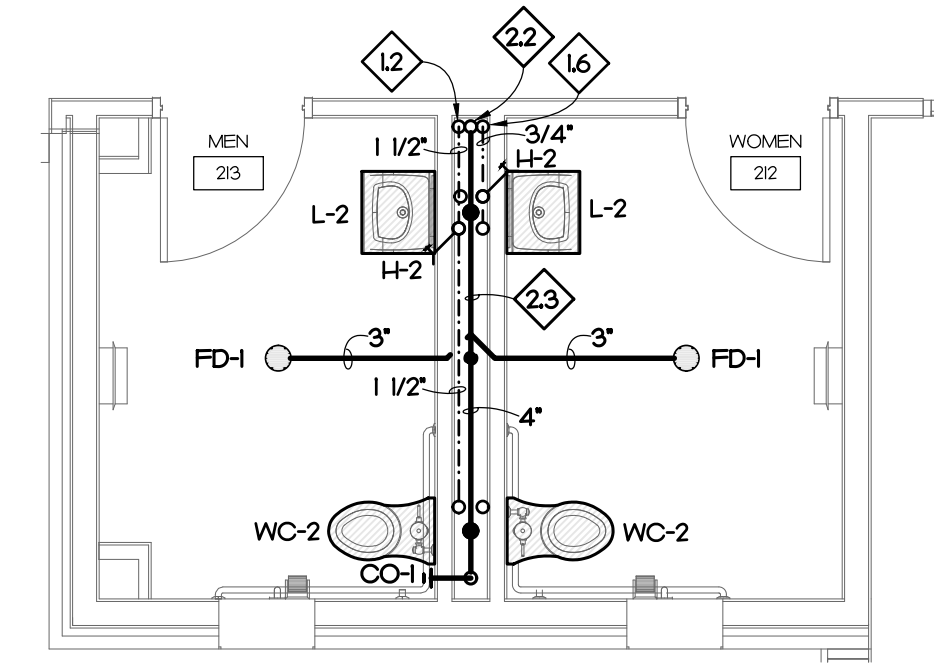
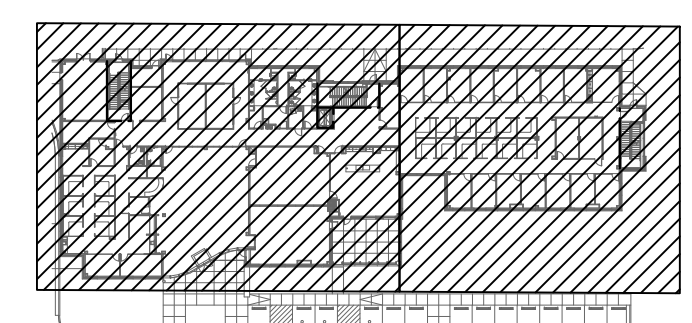


ENLARGED PLUMBING PLAN (E8)
SCALE: 1/4" = 1'-0"

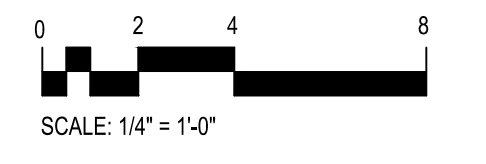
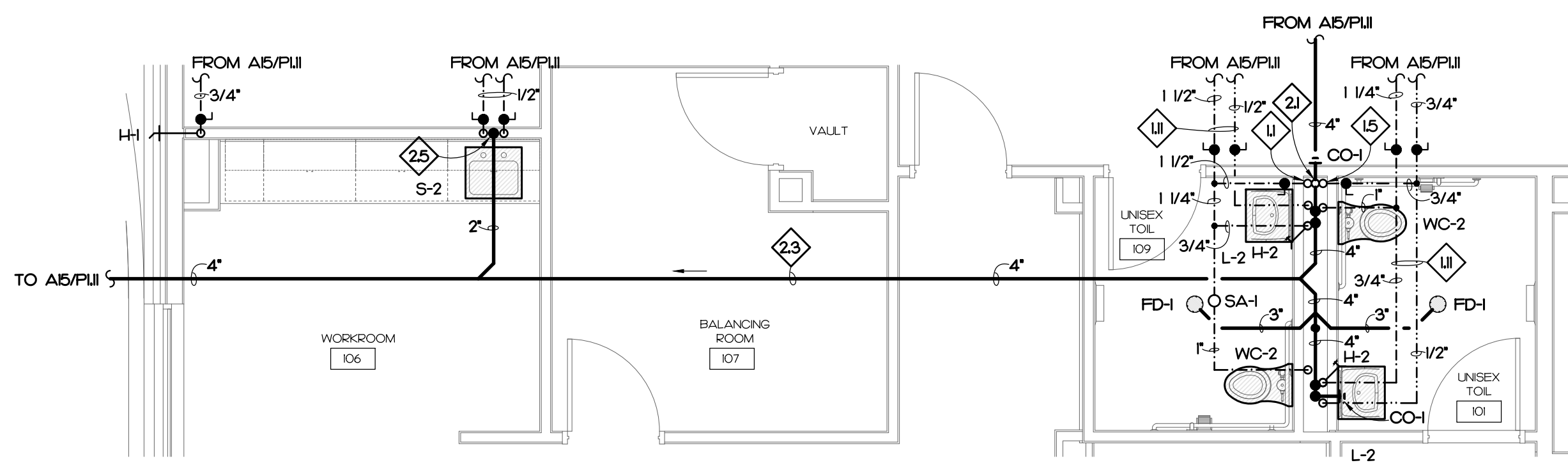


ENLARGED PLUMBING PLAN (E15)
SCALE: 1/4" = 1'-0"

KEY PLAN



ENLARGED PLUMBING PLAN (A8)
SCALE: 1/4" = 1'-0"



ENLARGED PLUMBING PLAN (A15)
SCALE: 1/4" = 1'-0"

NO	REVISION	DATE

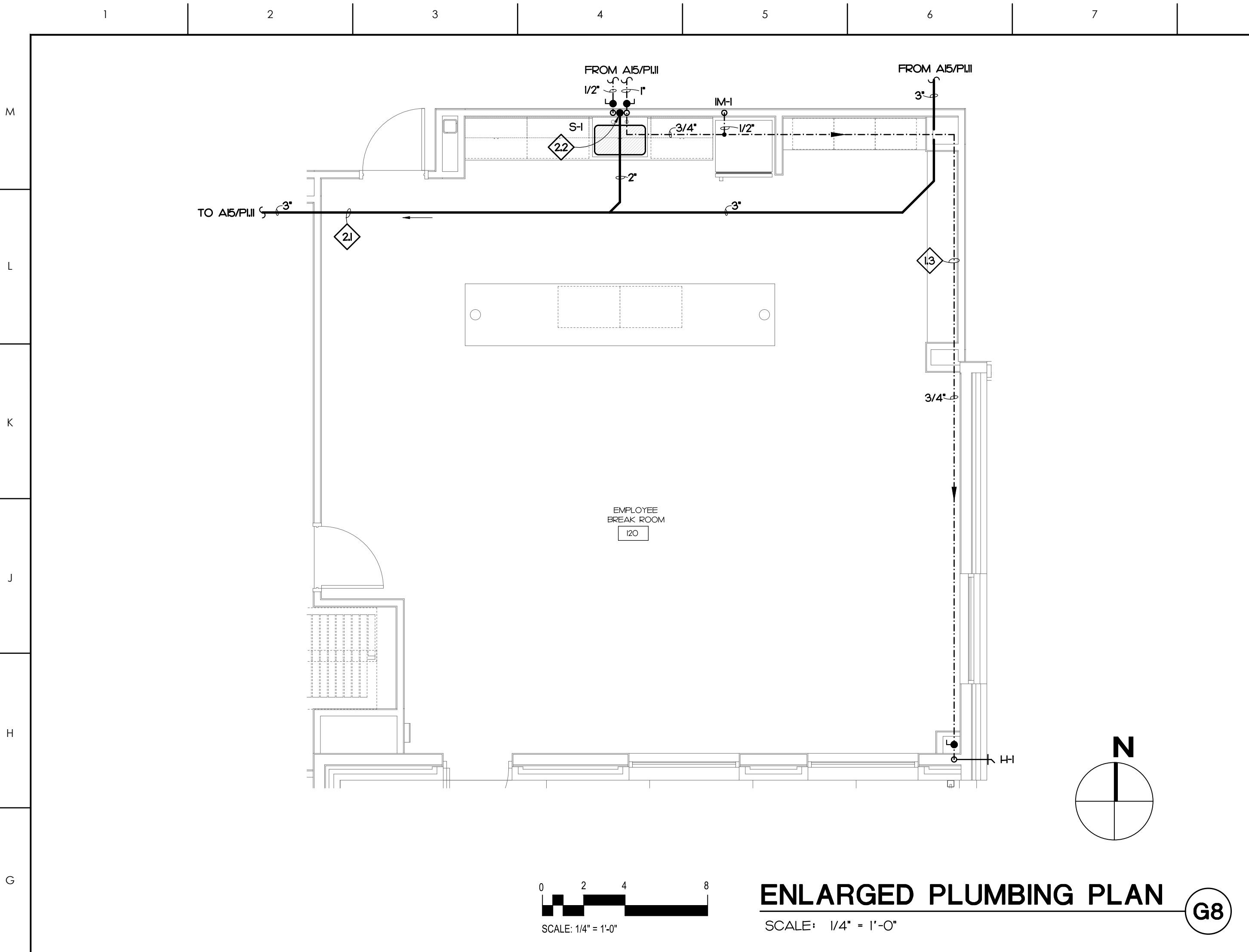
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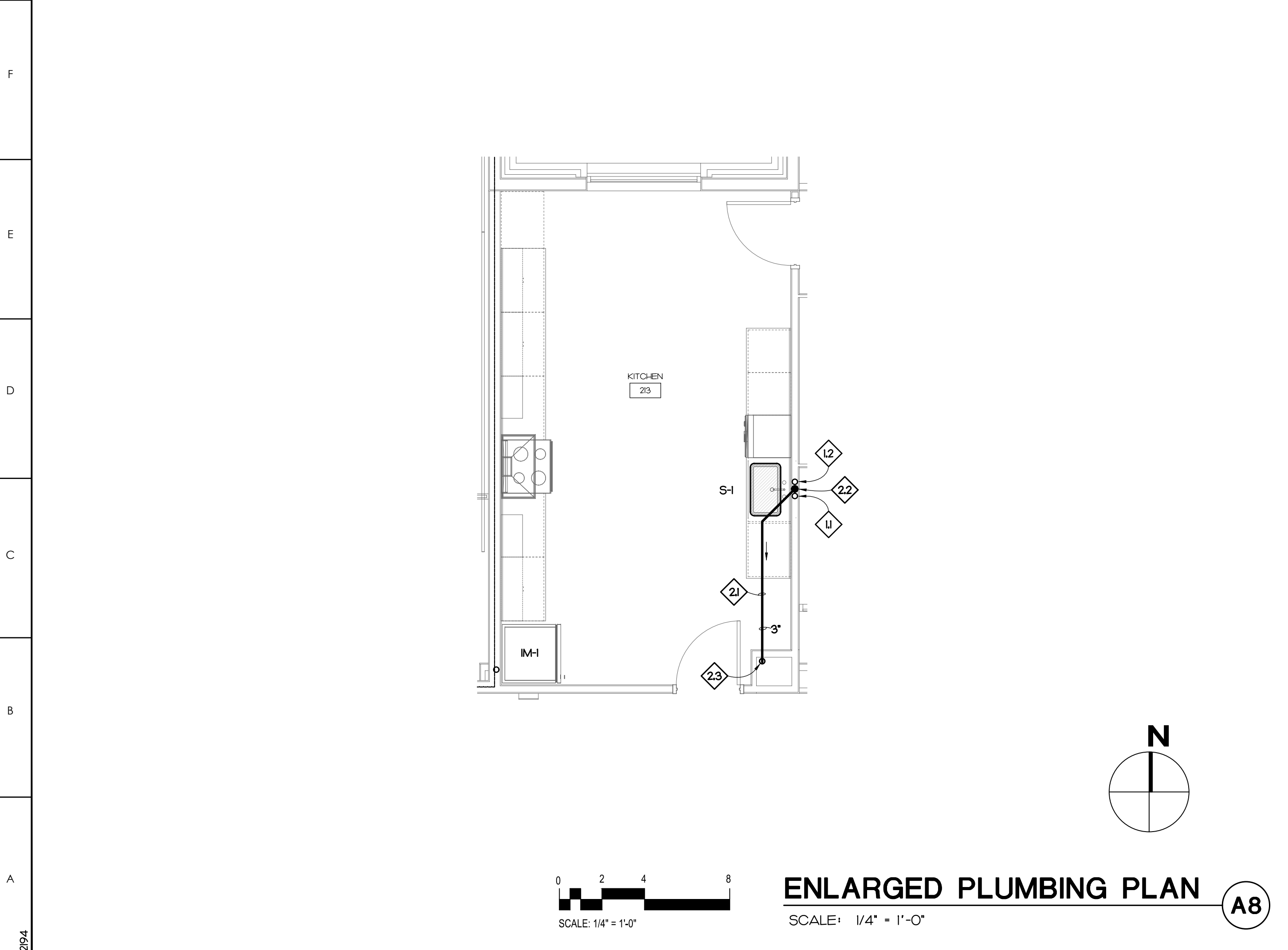
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DRAWING TITLE
ENLARGED PLUMBING PLANS

SCALE	AS NOTED	DRAWING NO. P2.1
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	



ENLARGED PLUMBING PLAN (G8)
SCALE: 1/4" = 1'-0"



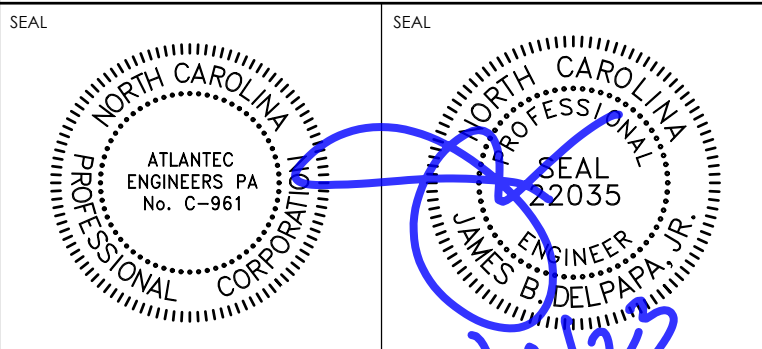
ENLARGED PLUMBING PLAN (A8)
SCALE: 1/4" = 1'-0"

PLUMBING KEY NOTES

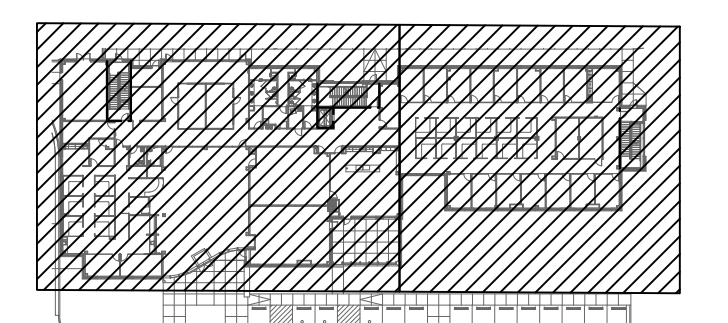
- (L1) 1/2" COLD WATER UP FROM FIRST FLOOR.
- (L2) 1/2" HOT WATER UP FROM FIRST FLOOR.
- (L3) WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
- (21) SANITARY SEWER PIPE BELOW FINISHED FLOOR.
- (22) AIR ADMITTANCE VALVE
- (23) DROP DOWN TO FIRST FLOOR.

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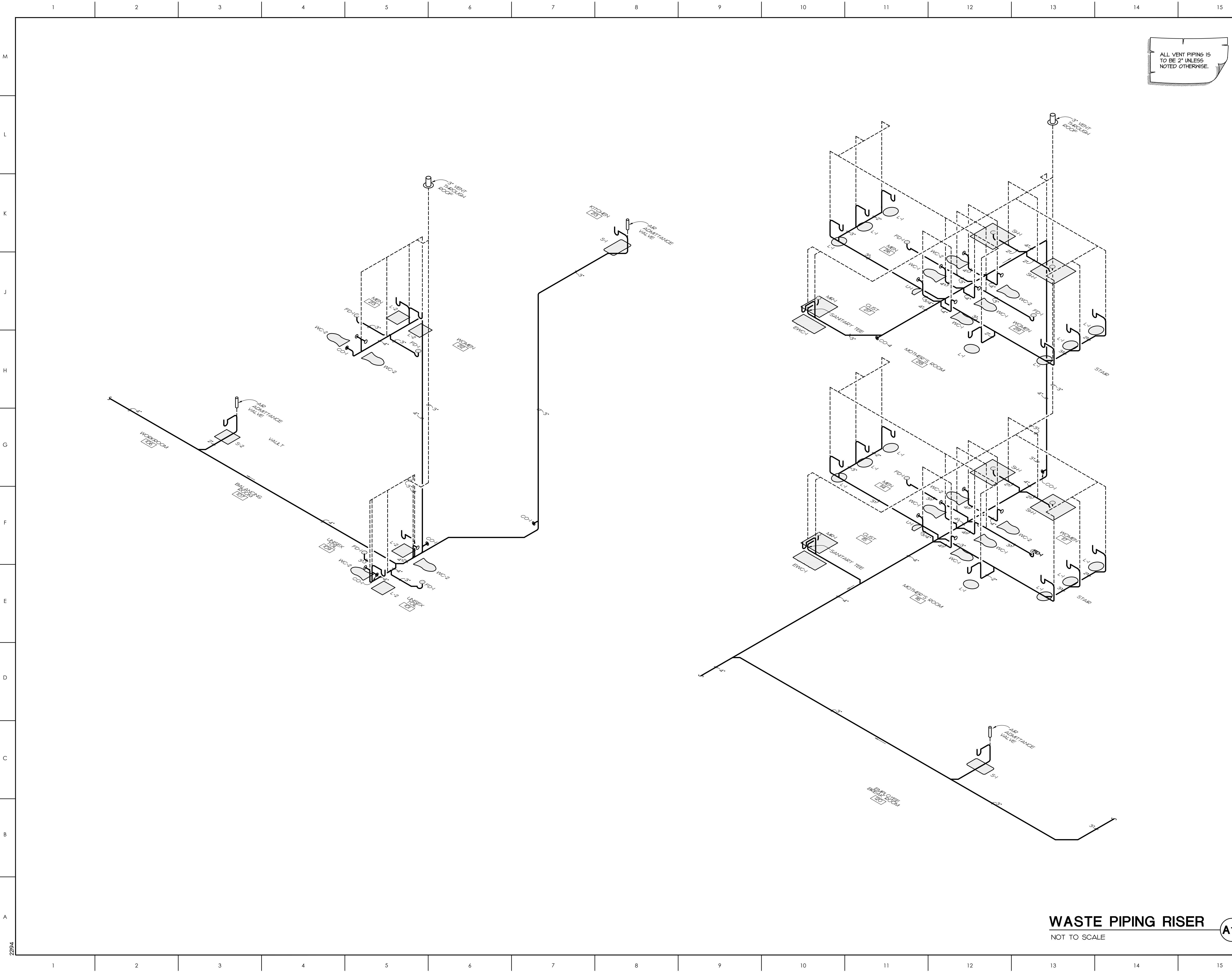
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DRAWING TITLE
ENLARGED PLUMBING PLANS

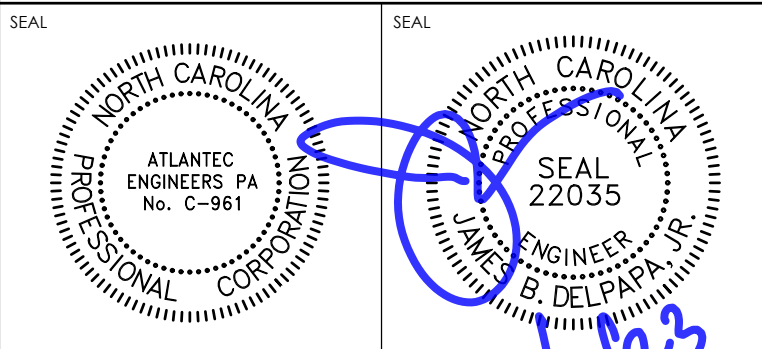
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DRAWN	DRD	
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DATE	07-15-2023	
PROJECT NO.	2022-17	



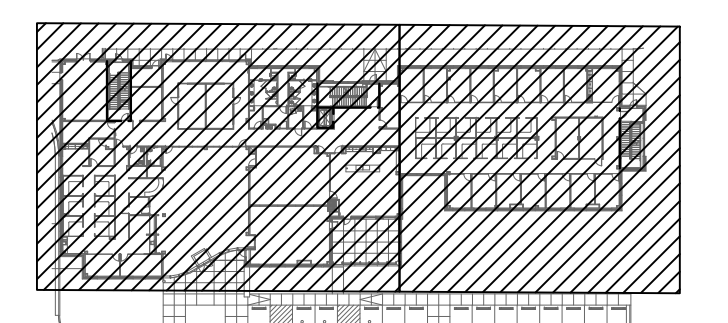
ALL VENT PIPING IS TO BE 2" UNLESS NOTED OTHERWISE.

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DRAWING TITLE
WATER PIPING RISER

SCALE	AS NOTED	DRAWING NO P3.1
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	

WASTE PIPING RISER (A15)
 NOT TO SCALE

PLUMBING FIXTURE SCHEDULE												
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS				
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER		
	WALL CLEANOUT	ZURN	CO-243-PVC	MFAB		JR SMITH		-	-	SEE PLUMB DRAWINGS		
	ACCESS COVER	ZURN	CO-2530-SS	MFAB		JR SMITH						
	PVC CLEANOUT BODY AND PLUG TO BE GAS AND WATER TIGHT. PLUG TO HAVE A BRASS THREADED INSERT TO RECEIVE SECURING SCREW FOR STAINLESS STEEL ROUND ACCESS COVER.											
	FLOOR CLEANOUT	ZURN	CO2449	MFAB		JR SMITH		-	-	SEE PLUMB DRAWINGS		
	PVC CLEANOUT WITH AN ADJUSTABLE PVC RISER, NICKEL BRONZE FRAME AND COVER, AND AN ABS TAPER THREADED PLUG. CLEANOUT TO BE GAS AND WATERTIGHT.											
	EXTERIOR CLEANOUT	ZURN	Z-4449-EP	WATTS	CO-380-34B	JR SMITH	4283	-	-	SEE PLUMB DRAWINGS		
	CLEANOUT FERRULE WITH CAST IRON BODY, WITH GAS AND WATERTIGHT BRONZE PLUG, MOUNT IN CONCRETE.											
	CLEANOUT	ZURN	CO2490	JOSAM		JR SMITH		-	-	SEE PLUMB DRAWINGS		
	PVC CLEANOUT PLUG TO BE GAS AND WATERTIGHT.											
	WATER COOLER	OASIS	P8SEFSL	ELKAY	LZSTLWS	HALSEY TAYLOR	HTH-HACDPLV-WF	1/2"	-	2"		
	PROVIDE WITH FRONT AND SIDE CONTROLS, SHUT-OFF VALVE, CARRIER, AND TRAP. PROVIDE STAINLESS STEEL FINISH. PROVIDE WITH BOTTLE FILLER.											
	FLOOR DRAIN	ZURN	ZN45H	WATTS	FD-100-FC	MFAB	F1000-C	1/2"	-	3"		
	FLOOR DRAIN TO HAVE A 3" WASTE BOTTOM OUTLET, CAST IRON BODY WITH ADJUSTABLE COLLAR, POLISHED NICKEL BRONZE ROUND HEELPROOF STRAINER, AND 1/2" TRAP PRIMER CONNECTION.											
	FLOOR DRAIN	ZURN	ZN45I	WATTS	FD-100-ER	MFAB	F100-CC-DD	1/2"	-	3"		
	FLOOR DRAIN TO HAVE A CAST IRON BODY WITH 3" BOTTOM OUTLET, ADJUSTABLE COLLAR, POLISHED 7" DIAMETER NICKEL BRONZE STRAINER, AND 1/2" TRAP PRIMER CONNECTION.											
	ANTIFREEZE HOSE BIBB	WOODFORD	65	WATTS	HT-420	MFAB	MT-5	3/4"	-	-		
	ANTIFREEZE HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB. MOUNT 12" ABOVE FINISHED GRADE.											
	HOSE BIBB	CHICAGO	952	WOODFORD	ZI	ZURN	Z875L7	3/4"	-	-		
	HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB. MOUNT 12" ABOVE FINISHED FLOOR.											
	ICE MAKER BOX	OATEY CO.	38570	GUY GRAY	AB9700 HA	SIOUX CHIEF	696-G-100MF	1/2"	-	-		
	PLASTIC ICE MAKER BOX WITH 1/4 TURN BRASS BALL VALVE WITH HAMMER ARRESTOR - COPPER SWEAT AND SUPPLY TUBE TO REFRIGERATOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.											
	LAVATORY	KOHLER	K-220-O	AMERICAN STANDARD	9482.000	TOTO	LT569					
	FAUCET	SLOAN	ETF-600	AMERICAN STANDARD	6056.202	MOEN	CA8302					
	TRAP	McGUIRE	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2"		
	SUPPLY	McGUIRE	158LK	BRASS CRAFT	R192AC	KOHLER	K-7605-P-CP	1/2"	1/2"			
	UNDERCOUNTER LAVATORY SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH, HAVE 4" CENTERS, AN OVERFLOW, AND INCLUDE SEALANT. DECK MOUNTED HARDWIRED SENSOR, FAUCET SHALL BE CHROME FINISH, 0.5 GPM, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR (0.25 GPM). RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW, CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET STRAINER AND TRUEBRO LAV SHIELD. PROVIDE FAUCET WITH COVER PLATE AND WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B25.3.											

PLUMBING FIXTURE SCHEDULE												
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS				
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER		
	LAVATORY	KOHLER	K-284-O	AMERICAN STANDARD	0355.02	ZURN	Z5834					
	FAUCET	SLOAN	ETF-600	MOEN	8470							
	TRAP	McGUIRE	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2"		
	SUPPLY	McGUIRE	158LK	BRASS CRAFT	R192AC	KOHLER	K-7605-P-CP	1/2"	1/2"			
	WALL HUNG LAVATORY SHALL BE MADE OF CAST IRON WITH A WHITE FINISH, 0.5 GPM, HAVE 4" CENTERS AND AN OVERFLOW. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. DECK MOUNTED, HARDWIRED SENSOR FAUCET SHALL BE CHROME FINISH, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR (0.25 GPM). RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN AND TRUEBRO LAV SHIELD. PROVIDE FAUCET WITH COVER PLATE AND WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B25.3.											
	MOP RECEPTOR	STERN WILLIAMS	SB-900	FIAT	TSB00					3"		
	FAUCET	STERN WILLIAMS	T-10-VB	CHICAGO	897RCF	MOEN	8124	1/2"	1/2"			
	HOSE	STERN WILLIAMS	T-35	FIAT	832AA							
	MOP BRACKET	STERN WILLIAMS	T-40	FIAT	889CC							
	MOP RECEPTOR SHALL BE 24" x 24" x 12" DEEP WITH ONE PIECE STAINLESS STEEL CAP, NO FLANGES.											
	REIRCULATING PUMP	B & G	PL36	ZOELLER		GRUNDFOS						
	REIRCULATING PUMP SHALL BE 1/6 HORSEPOWER, 120 VOLT, SINGLE PHASE. PROVIDE PUMP WITH MOUNTING BRACKET, TIMER, AQUASTAT AND DISCONNECT, DISCONNECT WIRING BY LICENSED ELECTRICAL CONTRACTOR.											
	SUMP PUMP	ZOELLER	940-0007	B & G		LITTLE GIANT						
	ZOELLER OIL SMART SYSTEM INCLUDES: SUMP PUMP, PUMP SWITCH, SENSOR, AND ALARM. SUMP PUMP, 1/2 HP, 120 VOLT, SINGLE PHASE, 52 GPM @ 20' HEAD. PROVIDE WITH CHECK VALVE AND DISCONNECT, WIRING BY LICENSED ELECTRICAL CONTRACTOR. PROVIDE WITH ZOELLER OIL SMART PUMP SWITCH, ALARM, AND SENSOR.											
	ROOF DRAIN	ZURN	Z-100-C	WATTS	RD-300-D-GSS	MFAB	R1200-U	-	-	-		
	6" DIAMETER ROOF DRAIN WITH CAST IRON BODY, UNDER DECK CLAMP, GRAVEL GUARD AND LOW SILHOUETTE POLYDOME. SIZE AS NOTED ON DRAWINGS.											
	OVERFLOW DRAIN	ZURN	Z-122-C	WATTS	RD-402	MFAB	R1220-U	-	-	-		
	12" DIAMETER DECK RECEPTOR DRAIN WITH CAST IRON BODY CLAMP/DECK RECEPTOR FRAME AND INTERNAL DOME STRAINER. SIZE OUTLET AS NOTED ON DRAWINGS.											
	KITCHEN SINK	KOHLER	K-25939	JUST		ELKAY						
	FAUCET	DELTA	400	MOEN	7437	KOHLER		1/2"	1/2"			
	TRAP	McGUIRE	8902	KOHLER	K8999	DEARBORN BRASS	702-1			2"		
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC					
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN	L7					
	SINK IS TO BE 18 GAUGE STAINLESS STEEL, UNDERMOUNT. DECK MOUNTED FAUCET SHALL BE CHROME FINISHED, 1.80 GPM WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH PROVIDE WITH McGUIRE PROWRAP INSULATOR. PROVIDE WITH SPRAYER, DISHWASHER CONNECTION, AND DISPOSAL IF REQUIRED BY ARCHITECT.											
	SINK	JUST	USF-166-A	ELKAY		KOHLER						
	FAUCET	DELTA	71-WFHDF	CHICAGO FAUCETS	2302-CP	TES BRASS	B-2741	1/2"	1/2"			
	TRAP	McGUIRE	8902	KOHLER	K-8999	DEARBORN BRASS	702-1			2"		
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC					
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN BRASS	L7					
	SINK IS TO BE 18 GAUGE STAINLESS STEEL, UNDERMOUNT. DECK MOUNTED GOOSENECK FAUCET SHALL BE CHROME FINISHED, 2.2 GPM, WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS.											
	SHOCK ABSORBER	JOSAM	75000	ZURN	Z1700	WADE	4480					
	SHOCK ABSORBERS SHALL HAVE A STAINLESS STEEL CASING, FLEXIBLE MECHANICAL BELLOWS, PRESSURIZED INERT GAS CHAMBER AND CERTIFICATION STAMP AS CONFORMING TO STANDARD PDI WH-201 OF THE PLUMBING AND DRAINAGE INSTITUTE.											

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8/12/25

KEY PLAN

NO	REVISION	DATE

JK F
ARCHITECTURE

625 LYNDALE CT, SUITE F, GREENVILLE, NC 27838 252-355-1048

STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

DRAWING TITLE: PLUMBING FIXTURE SCHEDULE

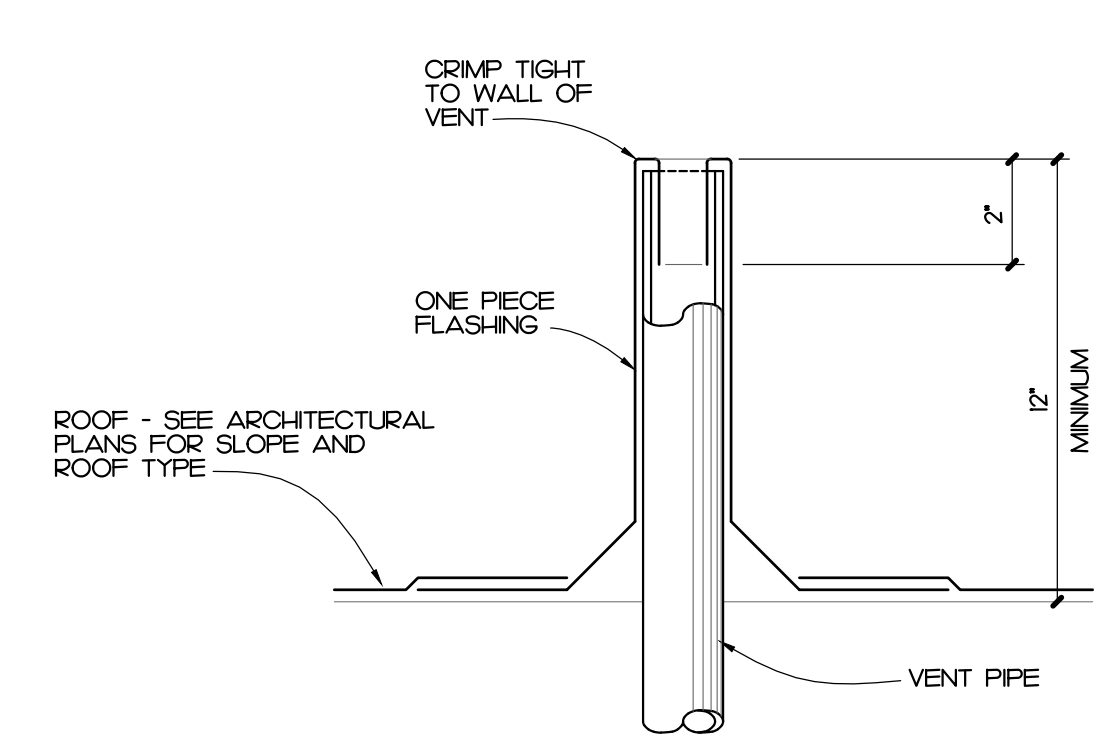
SCALE: AS NOTED	DRAWING NO: P4.1
DRAWN: DRD	
CHECKED: JBD	
DATE: 07-15-2023	
PROJECT NO: 2022-17	

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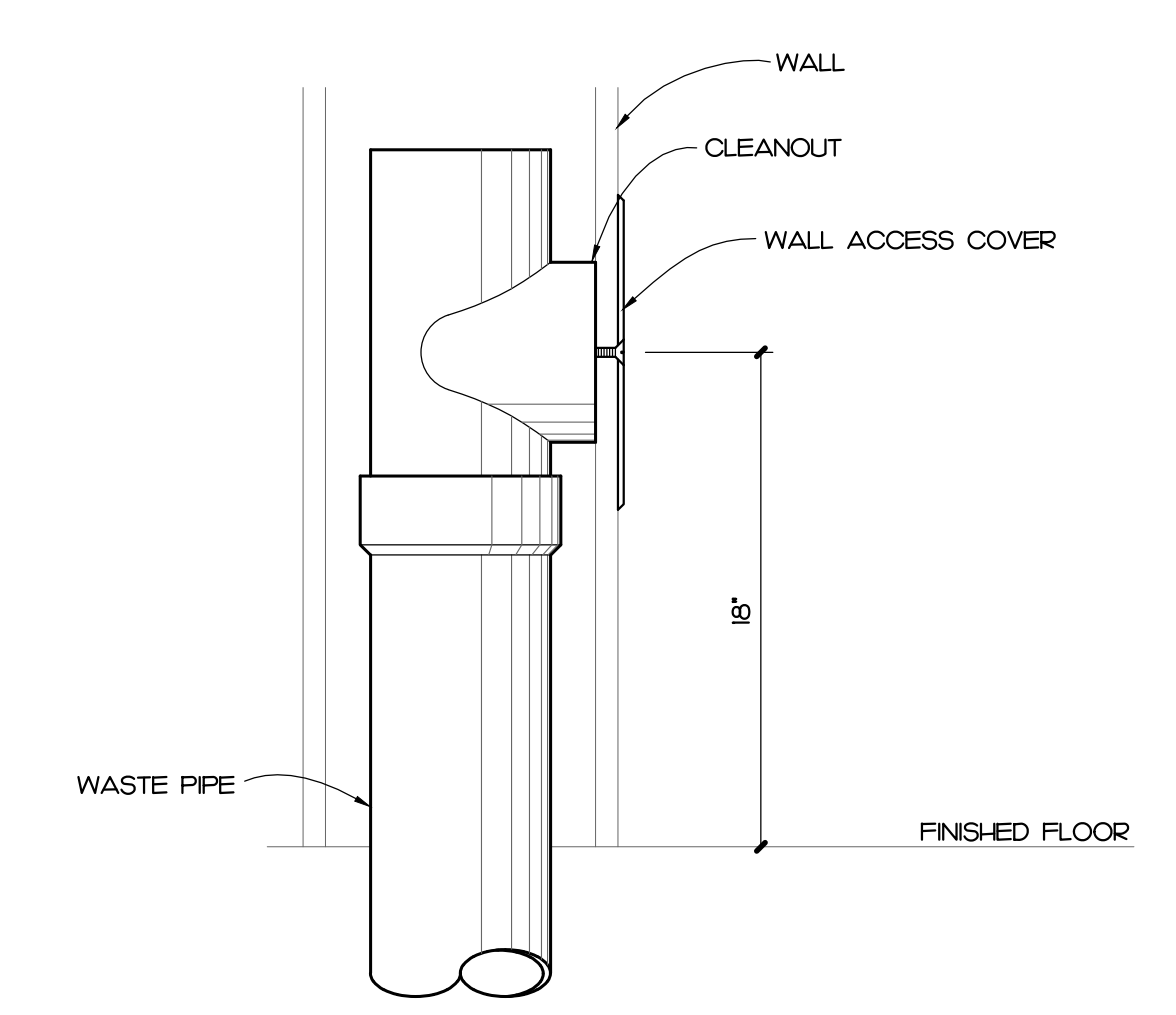
PLUMBING FIXTURE SCHEDULE

SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
	SHOWER	CLARION BATHWARE	MP3837L/REF34							2"
	VALVE AND HEAD	SYMMONS	96-500-B30-L-V	DELTA	TI9-033/R10700LWMS	MOEN	8342	1/2"	1/2"	
PROVIDE WITH DRAIN VALVE TO BE ANTI-SCALD PER NORTH CAROLINA BUILDING CODE. FLOW RATE 2.5 GPM. PROVIDE WITH SEAT, GRAB BARS, AND CURTAIN OR DOOR AS REQUIRED PER ADA REQUIREMENTS.										
	URINAL	KOHLER	K-506-ET	SLOAN	SU7009	AMERICAN STANDARD	654132			2"
	VALVE	SLOAN	ECOS 186 HMI	DELANY		ZURN		3/4"	-	
	CARRIER	ZURN	Z-1221	JR SMITH	636	WATTS	CA-311			
URINAL SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND 3/4" TOP SPUD. EXPOSED HARDWIRED SENSOR, CHROME PLATED FLUSH VALVE WITH 3/4" CHROME PLATED SPUD, FLUSH VOLUME: 0.5 GPF. COUPLING AND FLANGE.										
	WC-1	KOHLER	K-4325	SLOAN	ST-2429	AMERICAN STANDARD				4"
	SEAT	BEIMS	K555SC	KOHLER	K-4670-C-0	CHURCH	9500C			
	VALVE	SLOAN	ECOS 1146/11	DELANY		ZURN		1"	-	
	CARRIER	SLOAN	ISCA-101	ZURN		MFAB				
WALL MOUNTED ELONGATED TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED HARDWIRED SENSOR CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE. FLUSH VOLUME: 1.6/11 GPF.										
	WC-2	KOHLER	K-4325	SLOAN	ST-2429	AMERICAN STANDARD				4"
	SEAT	BEIMS	K555SC	KOHLER	K-4670-C-0	CHURCH	9500C			
	VALVE	SLOAN	ECOS 1146/11	DELANY		ZURN		1"	-	
	CARRIER	SLOAN	ISCA-101	ZURN		MFAB				
WALL MOUNTED ELONGATED TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED HARDWIRED SENSOR CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE. FLUSH VOLUME: 1.6/11 GPF. MOUNTING HEIGHT TO BE ADA COMPLIANT.										
	WH-1	STATE INDUSTRIES	CSB-52-30-FE	A.O. SMITH		LOCHINVAR		1 1/4"	1 1/4"	
	ELECTRIC WATER HEATER SHALL HAVE A 50 GALLON STORAGE CAPACITY, AN ELECTRIC INPUT OF 30 KW AT 480 VOLT, THREE PHASE AND A RECOVERY OF 123 GPH AT A 100° RISE. PROVIDE WITH EXPANSION TANK AND HEAVY DUTY FUSIBLE DISCONNECT, WIRING BY LICENSED ELECTRICAL CONTRACTOR. WATER HEATER TO BE PROVIDED WITH HEAT TRAPS AND MEET THE ENERGY EFFICIENCY REQUIREMENT PER 2018 NORTH CAROLINA STATE BUILDING CODE ENERGY CONSERVATION CODE.									

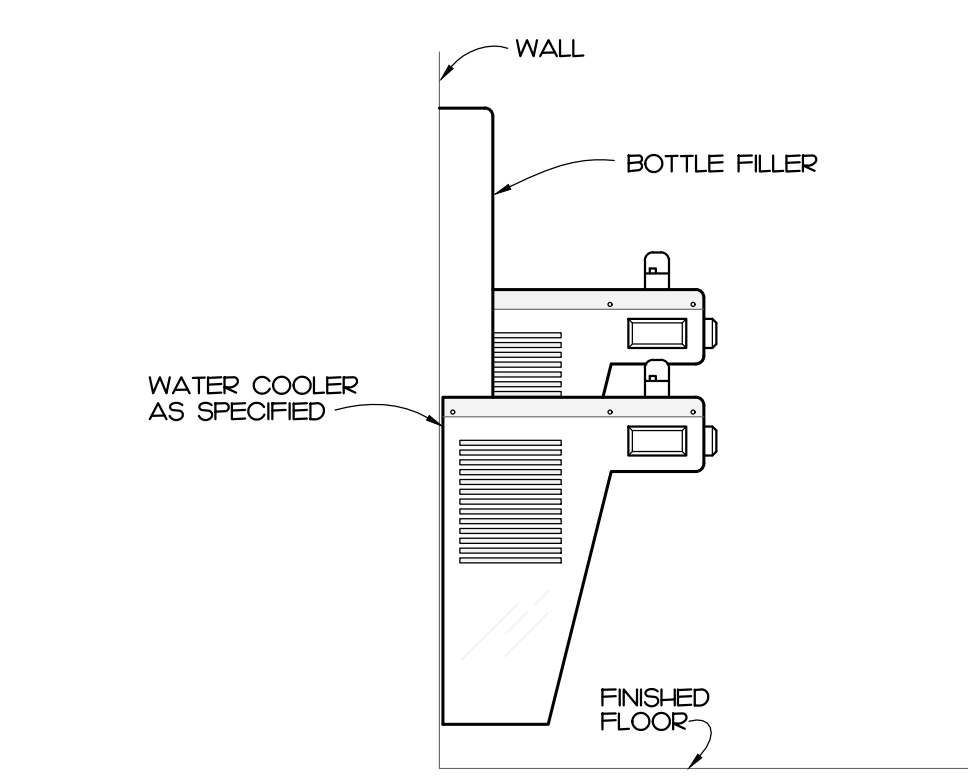
- PLUMBING SCHEDULE NOTES AND LEGEND:**
- THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.
 - SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
 - PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
 - REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.
- ADA COMPLIANT
 ELECTRICAL POWER
 GAS FIRED



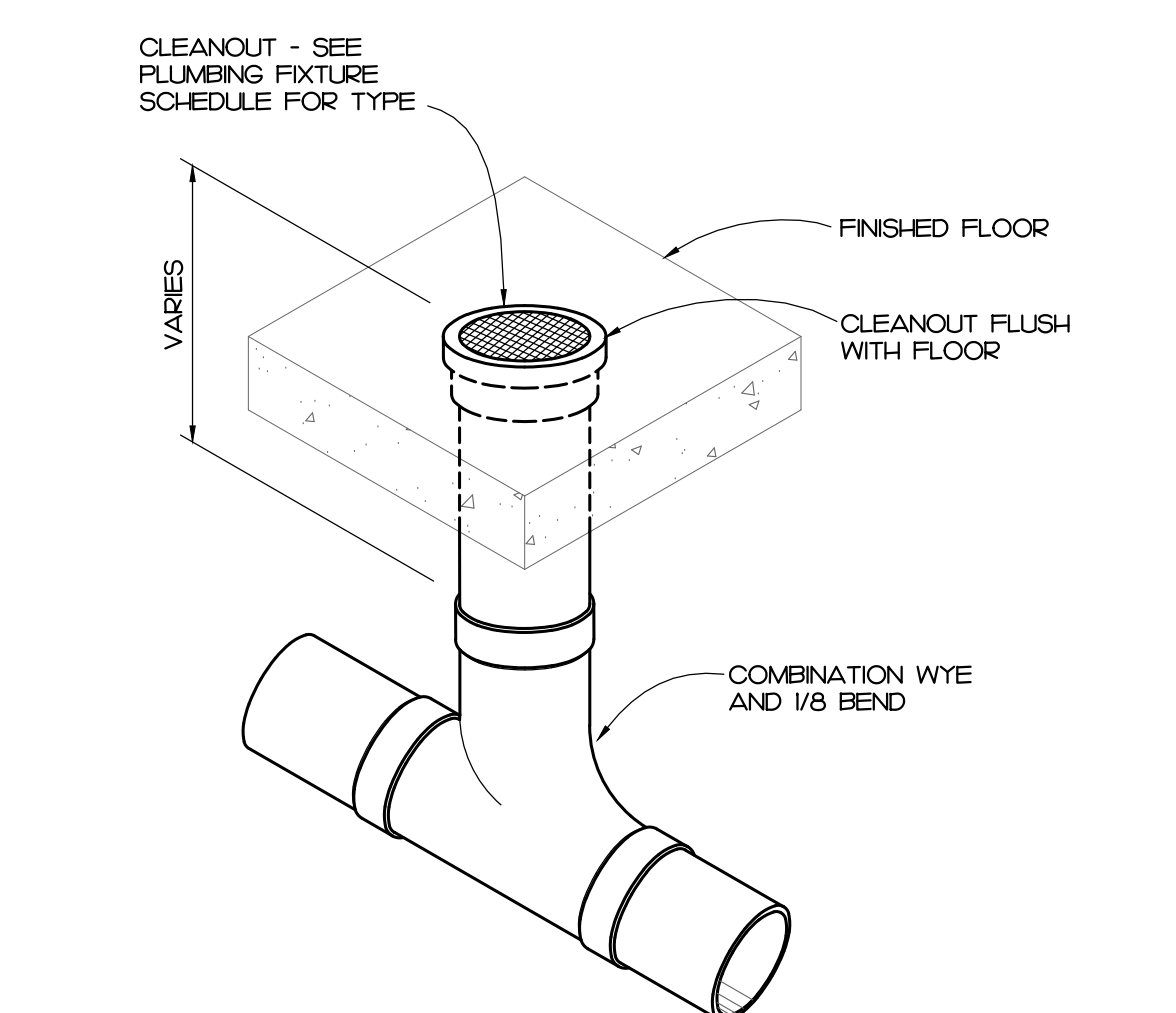
VENT THROUGH ROOF DETAIL (J12)
NOT TO SCALE



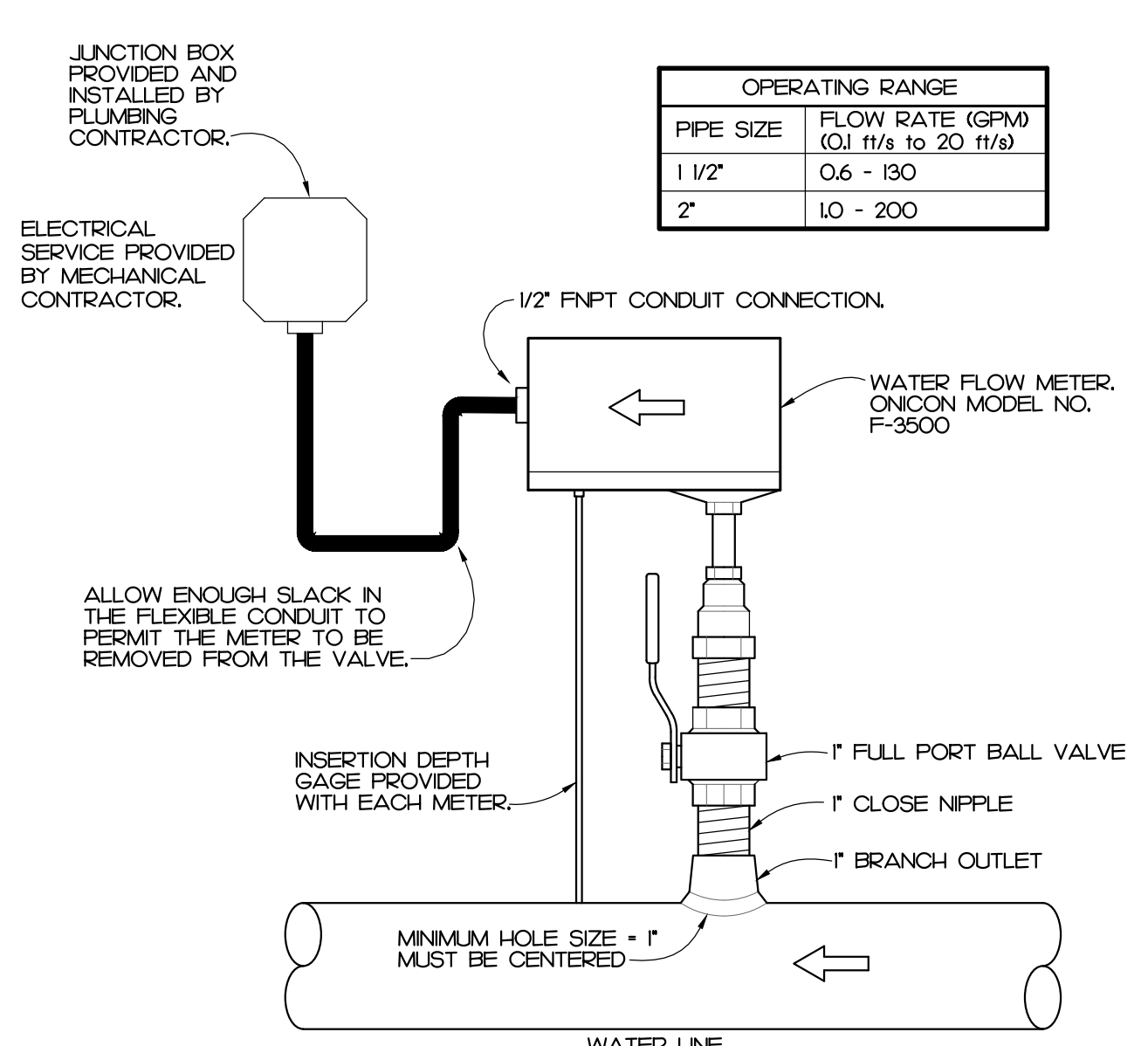
WALL CLEANOUT DETAIL (J15)
NOT TO SCALE



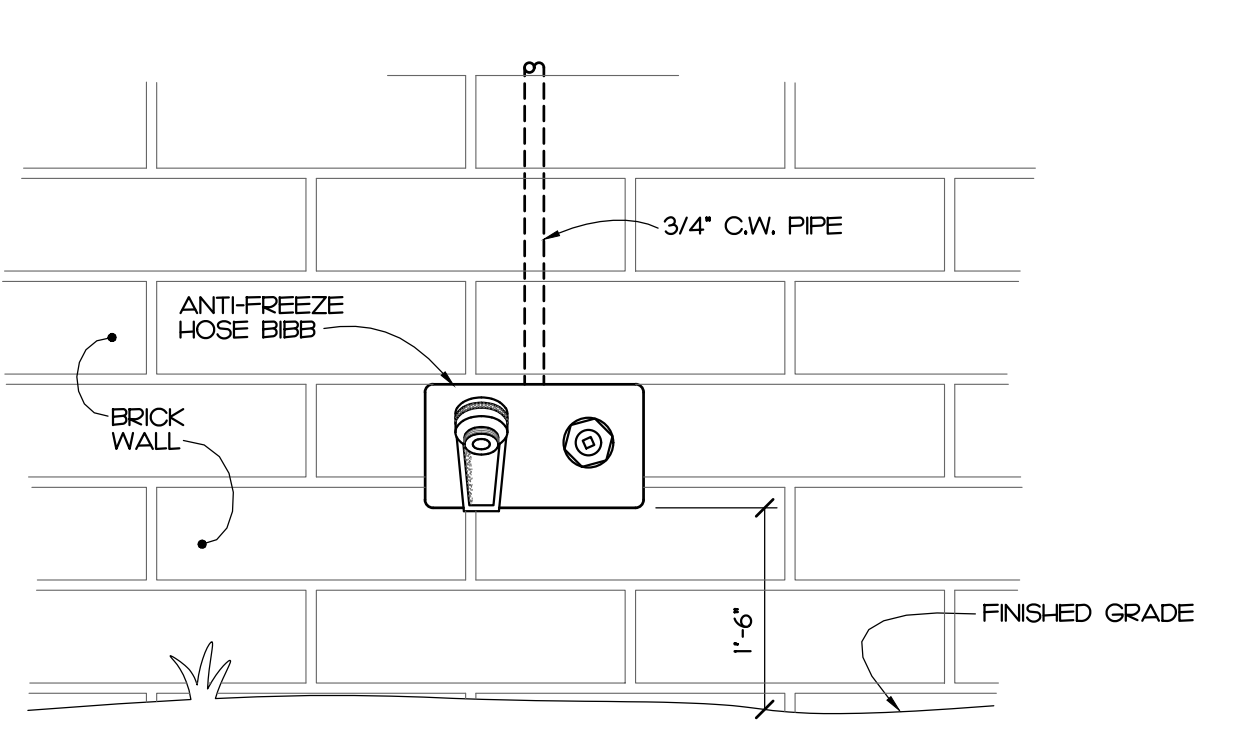
ELECTRIC WATER COOLER DETAIL (E12)
NOT TO SCALE



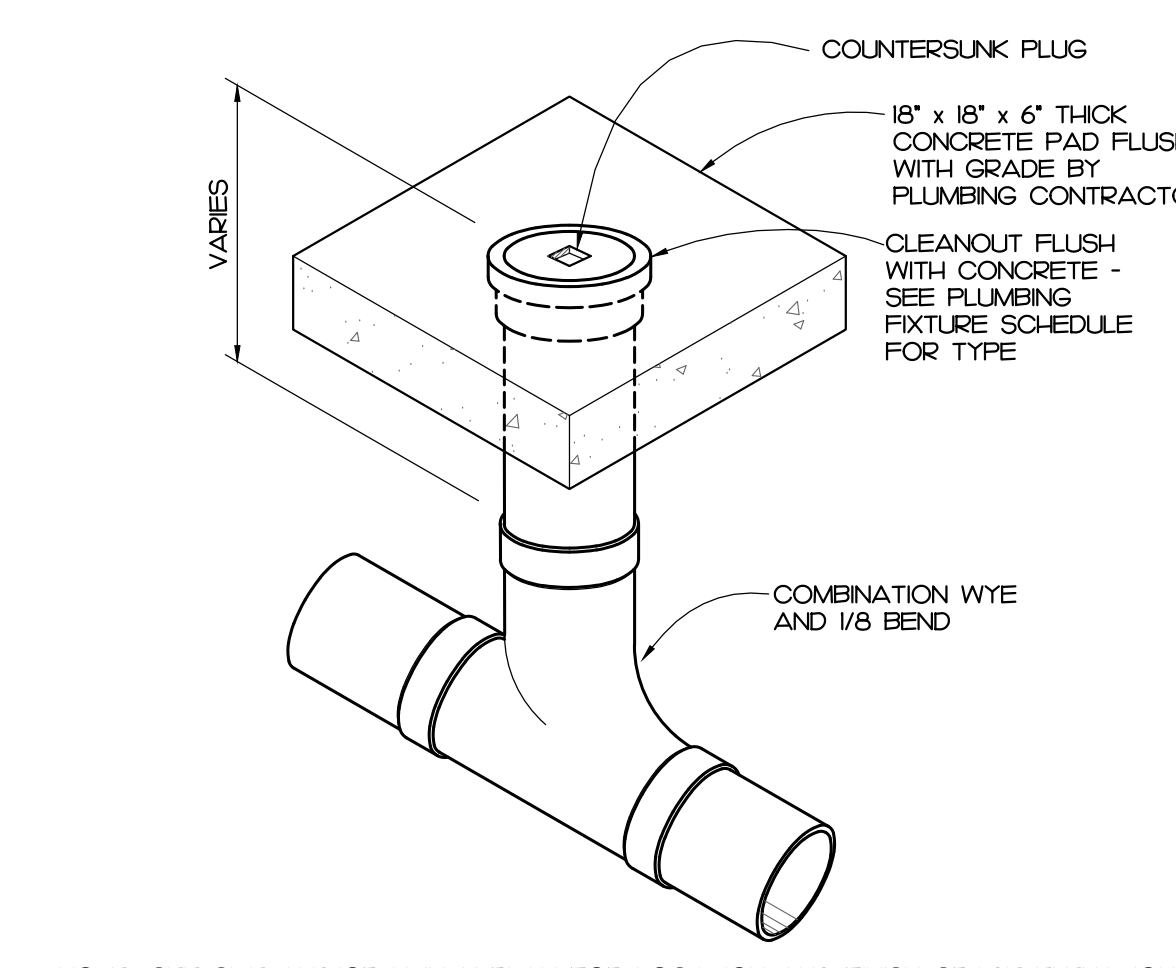
FLOOR CLEANOUT DETAIL (E15)
NOT TO SCALE



WATER FLOW METER DETAIL (A8)
NOT TO SCALE



ANTI FREEZE HOSE BIBB DETAIL (A12)
NOT TO SCALE



FLOOR CLEANOUT DETAIL (A15)
NOT TO SCALE

ATLANTEC ENGINEERS, PA 2294
 3221 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
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 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-9336

Professional Engineer Seal for James B. Farkas, No. C-961, State of North Carolina. Includes a blue signature stamp.

KEY PLAN

NO	REVISION	DATE
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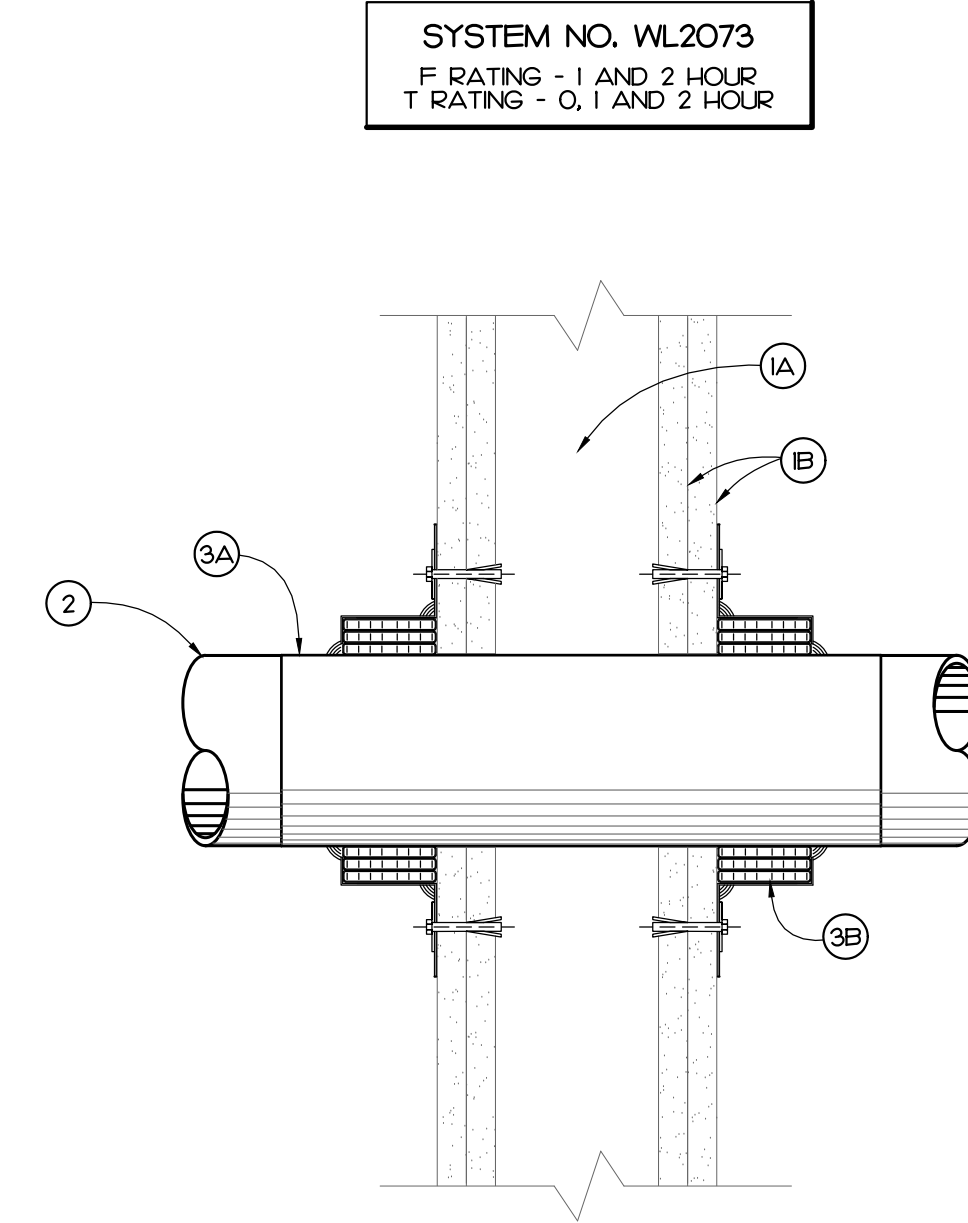
JKF ARCHITECTURE

STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

DRAWING TITLE: **PLUMBING FIXTURE SCHEDULE AND DETAILS**

SCALE: AS NOTED
 DRAWN: DRD
 CHECKED: JBD
 DATE: 07-15-2023
 PROJECT NO.: 2022-17

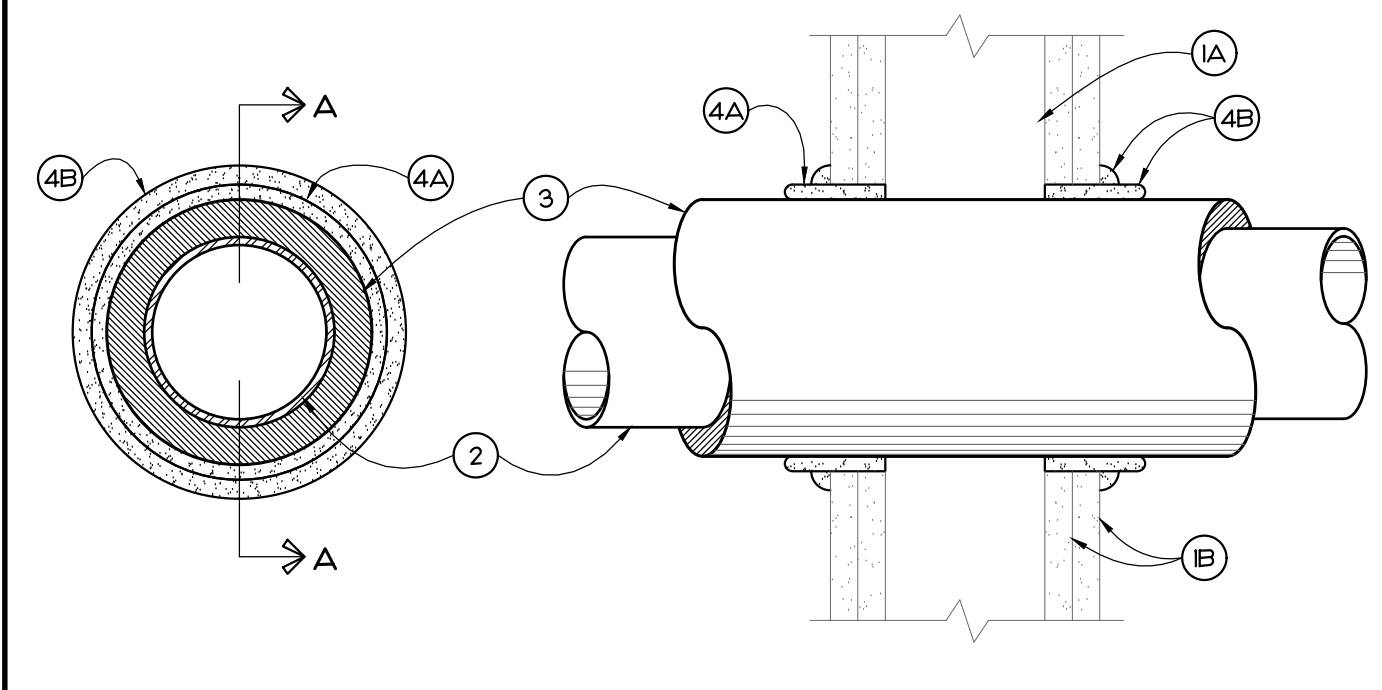
DRAWING NO.: **P4.2**



SYSTEM NO. WL2073
F RATING - 1 AND 2 HOUR
T RATING - 0, 1 AND 2 HOUR

- (1) WALL ASSEMBLY—THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- (1A) STUDS—WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
- (1B) WALLBOARD, GYPSUM—THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. DIAM OF OPENING SHALL BE A MAX OF 1/8 IN. LARGER THAN THE OUTSIDE DIAM OF NOM 2 IN DIAM (AND SMALLER) NONMETALLIC PIPES OR CONDUITS (ITEM 2) AND A MAX OF 1/2 IN. LARGER THAN THE OUTSIDE DIAM OF NOM 2-1/2 IN DIAM (AND LARGER) NONMETALLIC PIPES OR CONDUITS. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
- (2) THROUGH PENETRANTS—ONE NONMETALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDERS OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUITS MAY BE USED:
 - (2A) POLYVINYL CHLORIDE (PVC) PIPE—NOM 4 IN DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE PVC PIPE.
 - (2B) FIRESTOP SYSTEM—THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - (3A) FOIL TAPE—NOM 4 IN. WIDE, 3 MIL THICK ALUMINUM TAPE WRAPPED AROUND PIPE OR CONDUIT PRIOR TO THE INSTALLATION OF THE WRAP STRIP (ITEM 3B). MIN OF ONE WRAP, FLUSH WITH THE WALL SURFACES ON BOTH SIDERS OF THE WALL ASSEMBLY. FOIL TAPE IS NOT REQUIRED FOR SOLID CORE PVC AND CPVC PIPES AND CONDUITS.
 - (3B) FILL, VOID OR CAVITY MATERIALS—WRAP STRIP 1/4 IN. WIDE, NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL (WRAP STRIPS) TIGHTLY WRAPPED AROUND PIPE OR CONDUIT (FOIL SIDE EXPOSED) AND BUTTED AGAINST THE WALL SURFACES ON BOTH SIDERS OF THE WALL ASSEMBLY. EACH LAYER OF WRAP STRIP TO BE INSTALLED WITH BUTTED SEAM. WITH BUTTED SEAMS IN SUCCESSIVE LAYERS STAGGERED. WRAP STRIPS TEMPORARILY HELD IN POSITION USING ALUMINUM FOIL TAPE, STEEL WIRE TIE, OR EQUIVALENT. THE MIN NUMBER OF WRAP STRIP LAYERS IS DEPENDENT ON THE SIZE OF THE PIPE OR CONDUIT AS SHOWN BELOW:
 - NOM PIPE/ NO. OF WRAP STRIP LAYERS
 - 1/2 TO 2 IN. 1
 - 2-1/2 TO 3 IN. 3
 - 3-1/2 TO 4 IN. 4
 - MINNESOTA MINING & MFG. CO.-FS-195*
 - (3C) STEEL COLLAR—NOM 1 IN. DEEP COLLAR WITH 1/4 IN. WIDE BY 2 IN. LONG ANCHOR TABS AND MIN 1/2 IN. LONG TABS TO RETAIN WRAP STRIP. COILS OF PRECUT MIN 0.016 IN. THICK (NO. 28 GAUGE) GALV SHEET STEEL AVAILABLE FROM WRAP STRIP MANUFACTURER. AS AN ALTERNATE, COLLAR MAY BE FIELD-FABRICATED FROM MIN 0.016 IN. THICK (28 GAUGE) GALV SHEET STEEL IN ACCORDANCE WITH INSTRUCTION SHEET SUPPLIED BY WRAP STRIP MANUFACTURER. COLLAR WITH ANCHOR TABS BENT OUTWARD 90 DEGREE, WRAPPED TIGHTLY AROUND WRAP STRIP WITH MIN 1 IN. OVERLAP AT SEAM AND COMPRESSED AROUND WRAP STRIPS) USING A MIN 1/2 IN. WIDE BY MIN 0.028 IN. THICK STAINLESS STEEL BAND CLAMP AT THE COLLAR HEIGHT. AS AN ALTERNATE TO THE BAND CLAMPS, COLLARS MAY BE SECURED BY A MEANS NO. 10 BY 1/2 IN. LONG SHEET METAL SCREWS INSTALLED IN THE VERTICAL AXIS AT THE CENTER OF THE 1 IN. OVERLAP ALONG THE PERIMETER JOINT OF THE COLLAR. A MIN OF THREE SCREWS IS REQUIRED. COLLAR ANCHOR TABS PRESSED TIGHTLY AGAINST WALL SURFACES, AND SECURED TO WALL SURFACES WITH 3/16 IN. DIAM STEEL TOGGLE BOLTS, OR EQUIVALENT, IN CONJUNCTION WITH MIN 1/4 IN. DIAM STEEL FENDER WASHERS. MIN THREE ANCHOR BOLTS FOR NOM 1/2 TO 2 IN. PIPES OR CONDUITS, MIN 4 ANCHOR BOLTS FOR NOM 2-1/2 AND 3 IN. PIPES OR CONDUITS, AND MIN 5 ANCHOR BOLTS FOR NOM 3-1/2 AND 4 IN. PIPES OR CONDUITS, SYMMETRICALLY LOCATED. RETAINER TABS BENT 90 DEG TOWARD PIPE TO LOCK WRAP STRIPS) IN POSITION.
 - (3D) FILL, VOID OR CAVITY MATERIALS—CALLK OR PUTTY (OPTIONAL) NOT SHOWN—GENEROUS BEAD OF CALLK OR PUTTY APPLIED TO OUTER PERIMETER OF WRAP STRIP AT INTERFACE WITH WALL SURFACES AND TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WRAP STRIP LAYERS. MINNESOTA MINING & MFG. CO.-CP 25WB*, MPS-2*.
 - (3E) FIRESTOP DEVICE—NOT SHOWN—AS AN ALTERNATE TO ITEM A AND B WHEN NOM 1/2, 3/4 OR 1 IN. DIAM NONMETALLIC PIPES ARE USED, A FIRESTOP DEVICE CONSISTING OF A SHEET-STEEL SPLIT COLLAR LINED WITH INTUMESCENT MATERIAL AND PROVIDED WITH STEEL CLIPS FOR ATTACHMENT MAY BE USED. FIRESTOP DEVICE TO BE INSTALLED ON UNDERSIDE OF TOP PLATE OR ON BOTH SIDERS OF WALL IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.
- (4) THROUGH PENETRANTS—ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDERS OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBINGS MAY BE USED:
 - (4A) STEEL PIPE—NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - (4B) COPPER TUBING—NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - (4C) COPPER PIPE—NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- (5) PIPE COVERING—NOM 1 OR 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 35 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM 1 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/4 IN. TO MAX 3/8 IN. WHEN NOM 2 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/2 IN. TO MAX 3/4 IN. SEE PIPE AND EQUIPMENT COVERING MATERIALS (SERG) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 3/4 HR WHEN NOM 1 IN. THICK PIPE COVERING IS USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 1 HR AND 1/2 HR WHEN NOM 2 IN. THICK PIPE COVERING IS USED WITH 1 HR AND 2 HR FIRE RATED WALLS, RESPECTIVELY.
- (6) FIRESTOP SYSTEM—INSTALLED SYMMETRICALLY ON BOTH SIDERS OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - (6A) FILL, VOID OR CAVITY MATERIALS—WRAP STRIP—NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS, NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX 1/4 IN. SUCH THAT APPROX 3/4 IN. OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 IN. THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 IN. THICK PIPE COVERING IS USED. MINNESOTA MINING & MFG. CO.-FS-195*
 - (6B) FILL, VOID OR CAVITY MATERIALS—CALLK—MIN 1/4 IN. DIAM CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYER APPROX 3/4 IN. FROM THE WALL SURFACE. MINNESOTA MINING & MFG. CO.-CP 25WB* *BEARING THE UL CLASSIFICATION MARKING

RATED WALL DETAIL
NOT TO SCALE A12



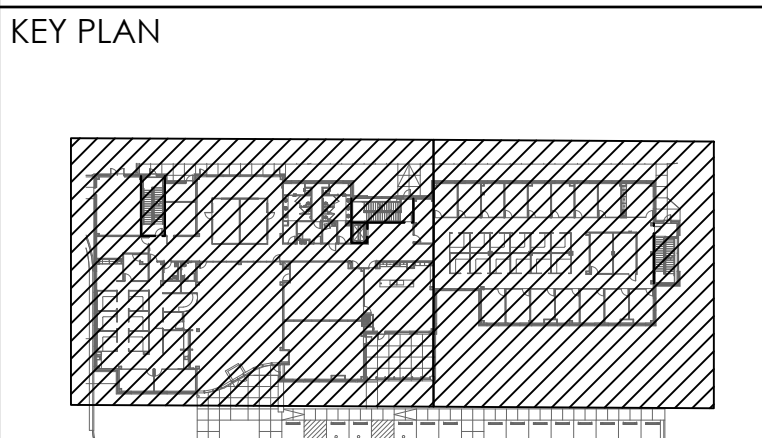
SYSTEM NO. WL5001
F RATING - 1 AND 2 HOUR
T RATING - 3/4, 1 AND 1 1/2 HR
L RATING AT AMBIENT - 2 CFMSQ FT
L RATING AT 400 F - LESS THAN 1 CFMSQ FT

- (1) WALL ASSEMBLY—THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- (1A) STUDS—WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
- (1B) WALLBOARD, GYPSUM—NOM 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 1-1/2 IN FOR WOOD STUD WALLS AND 18 IN FOR STEEL STUD WALLS. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS 1 HR WHEN INSTALLED IN A 1 HR FIRE RATED WALL AND 2 HR WHEN INSTALLED IN A 2 HR FIRE RATED WALL.
- (2) THROUGH PENETRANTS—ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDERS OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBINGS MAY BE USED:
 - (2A) STEEL PIPE—NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - (2B) COPPER TUBING—NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - (2C) COPPER PIPE—NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- (3) PIPE COVERING—NOM 1 OR 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 35 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM 1 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/4 IN. TO MAX 3/8 IN. WHEN NOM 2 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/2 IN. TO MAX 3/4 IN. SEE PIPE AND EQUIPMENT COVERING MATERIALS (SERG) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 3/4 HR WHEN NOM 1 IN. THICK PIPE COVERING IS USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 1 HR AND 1/2 HR WHEN NOM 2 IN. THICK PIPE COVERING IS USED WITH 1 HR AND 2 HR FIRE RATED WALLS, RESPECTIVELY.
- (4) FIRESTOP SYSTEM—INSTALLED SYMMETRICALLY ON BOTH SIDERS OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - (4A) FILL, VOID OR CAVITY MATERIALS—WRAP STRIP—NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS, NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX 1/4 IN. SUCH THAT APPROX 3/4 IN. OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 IN. THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 IN. THICK PIPE COVERING IS USED. MINNESOTA MINING & MFG. CO.-FS-195*
 - (4B) FILL, VOID OR CAVITY MATERIALS—CALLK—MIN 1/4 IN. DIAM CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYER APPROX 3/4 IN. FROM THE WALL SURFACE. MINNESOTA MINING & MFG. CO.-CP 25WB* *BEARING THE UL CLASSIFICATION MARKING

RATED WALL DETAIL
NOT TO SCALE A15

ATLANTEC ENGINEERS, PA
2294
3221 BLUE RIDGE ROAD, SUITE 103
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SEAL
NORTH CAROLINA PROFESSIONAL CORPORATION
ATLANTEC ENGINEERS PA
No. C-961
SEAL
NORTH CAROLINA PROFESSIONAL CORPORATION
ATLANTEC ENGINEERS PA
No. C-961
8/14/23



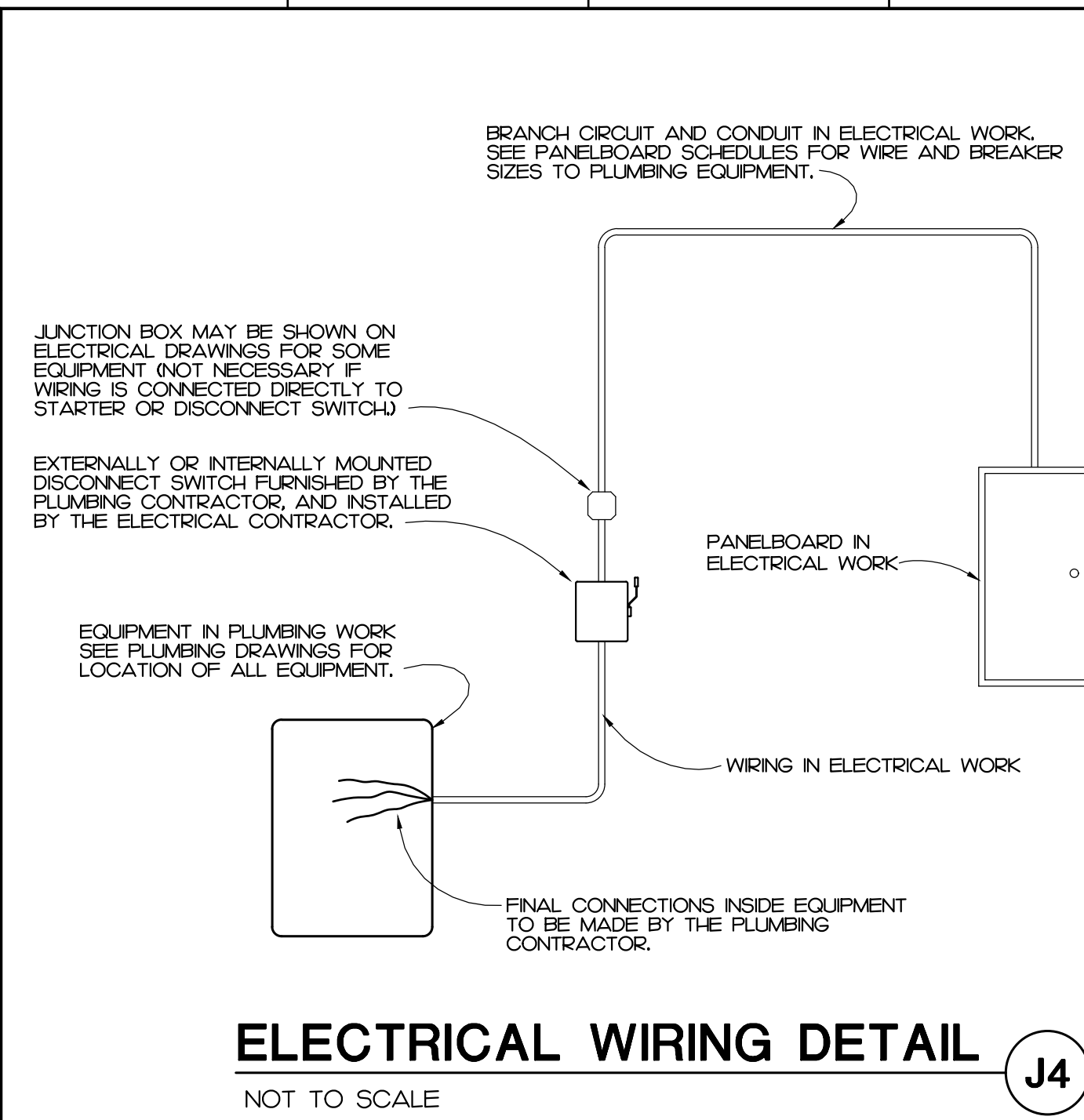
NO	REVISION	DATE

SEAL
J K F
ARCHITECTURE

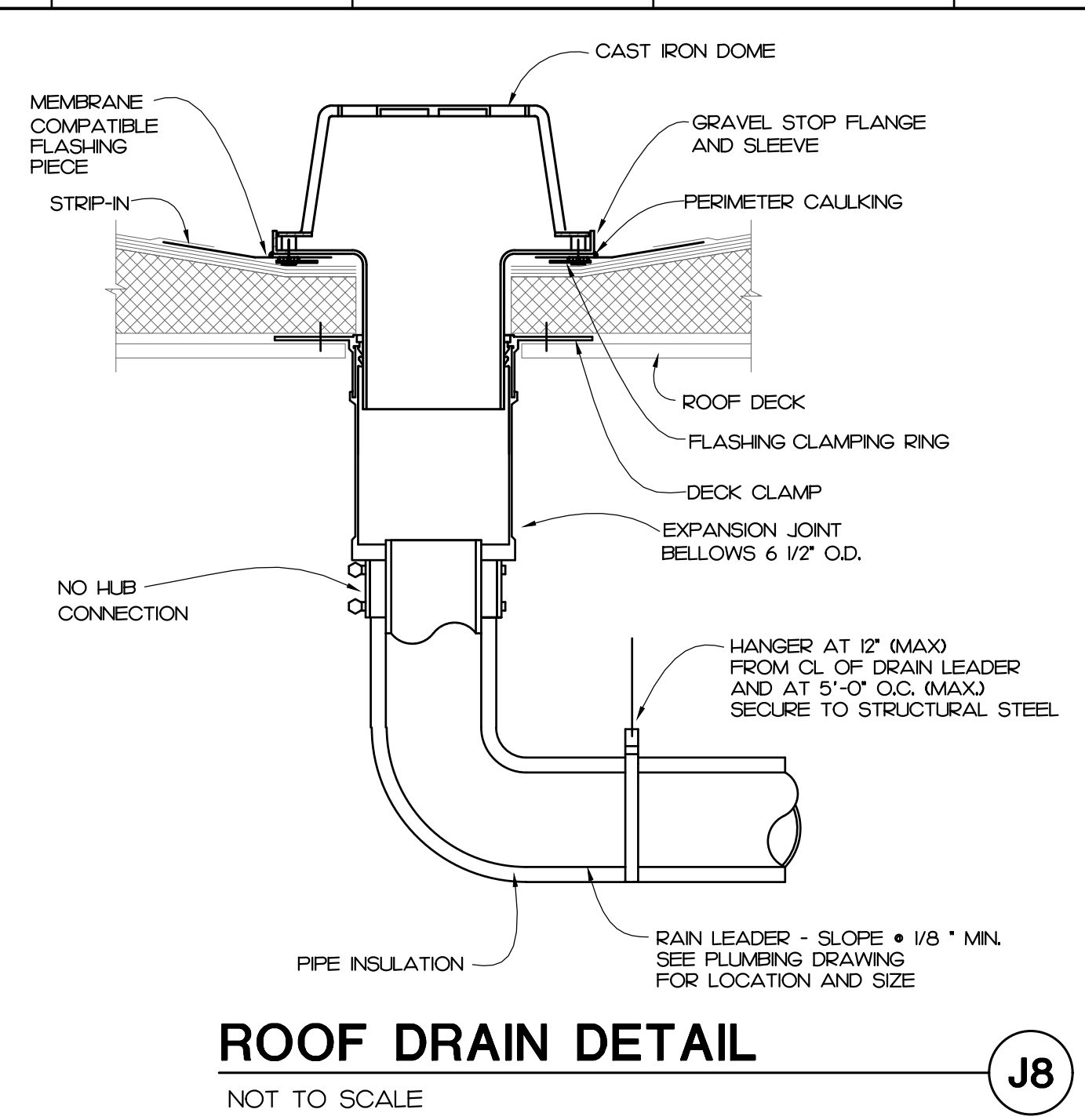
625 LYNDALE CT, SUITE F, GREENVILLE, NC 27638 252-355-1048
STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

DRAWING TITLE
PLUMBING DETAILS

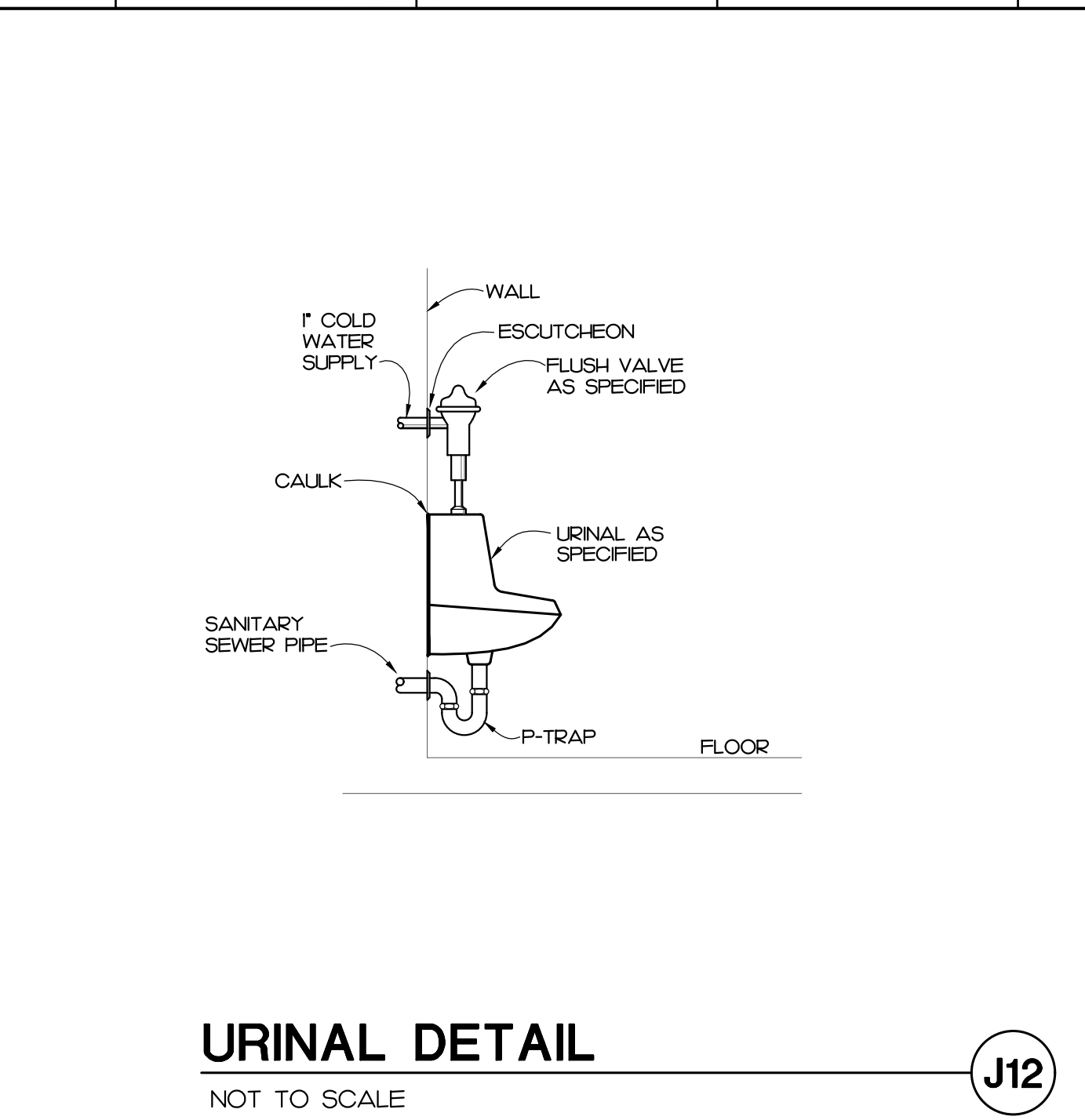
SCALE	AS NOTED	DRAWING NO P4.3
DRAWN	DRD	
CHECKED	JBD	
DATE	07-15-2023	
PROJECT NO.	2022-17	



ELECTRICAL WIRING DETAIL (J4)
NOT TO SCALE

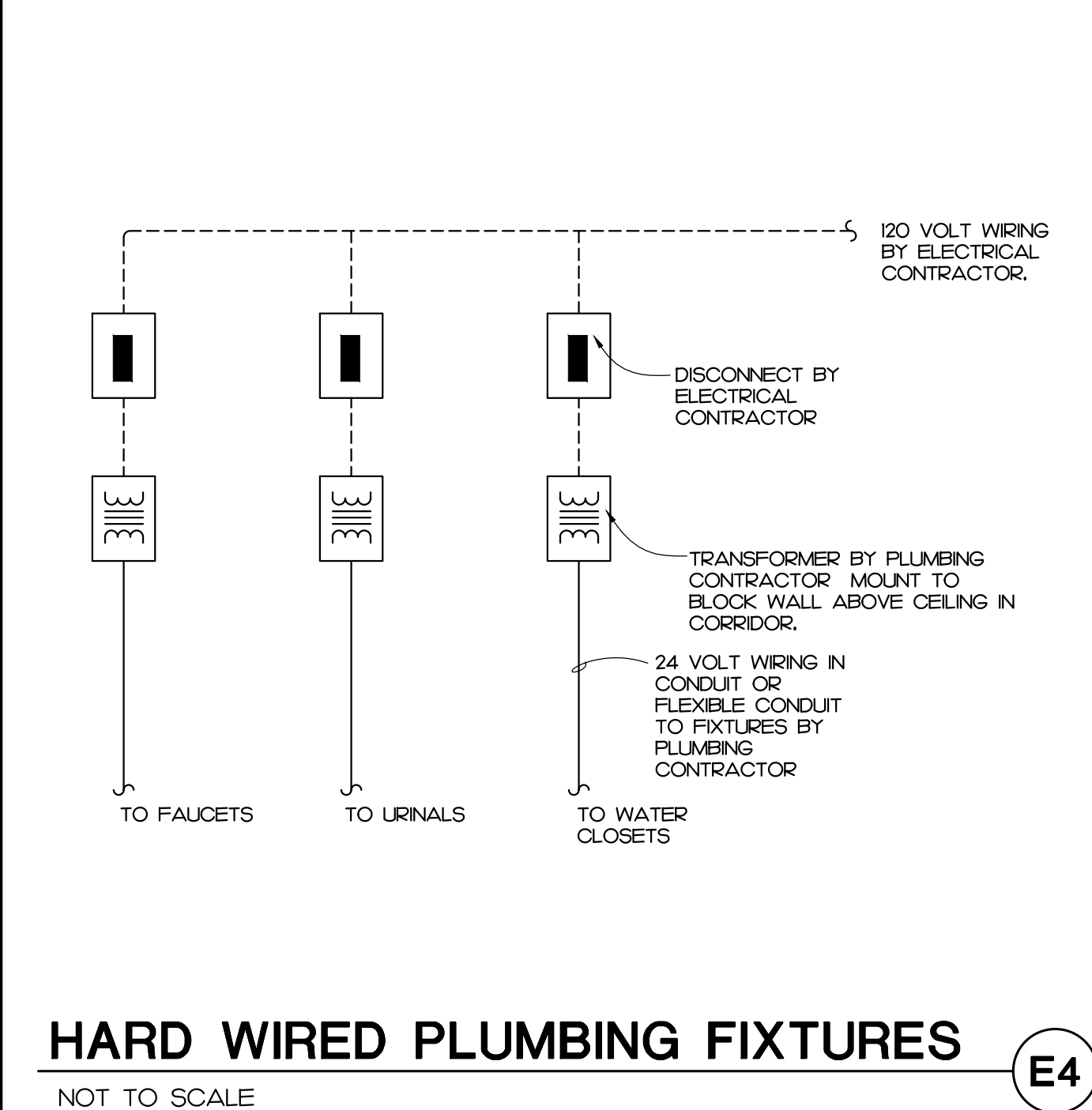


ROOF DRAIN DETAIL (J8)
NOT TO SCALE

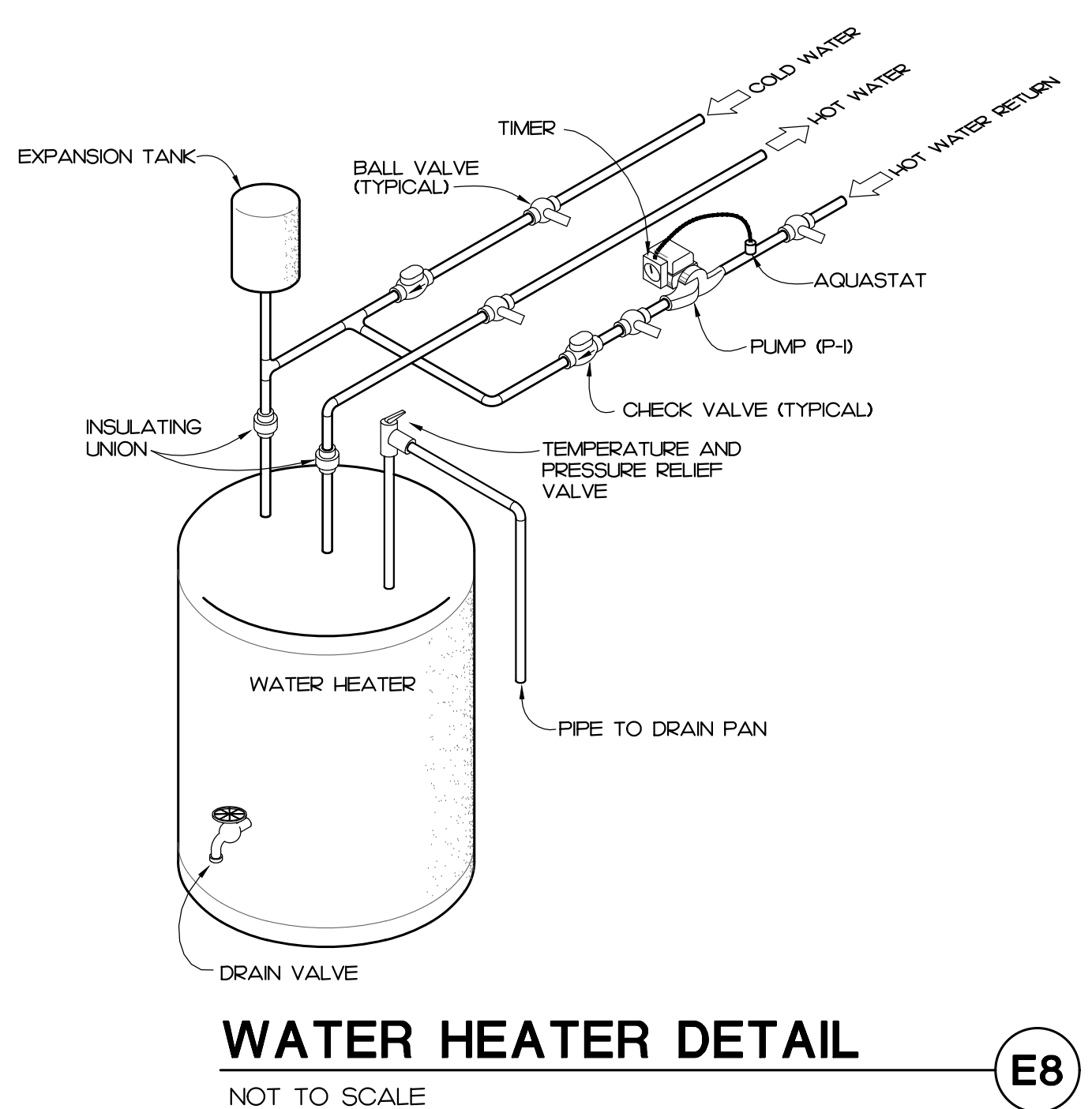


URINAL DETAIL (J12)
NOT TO SCALE

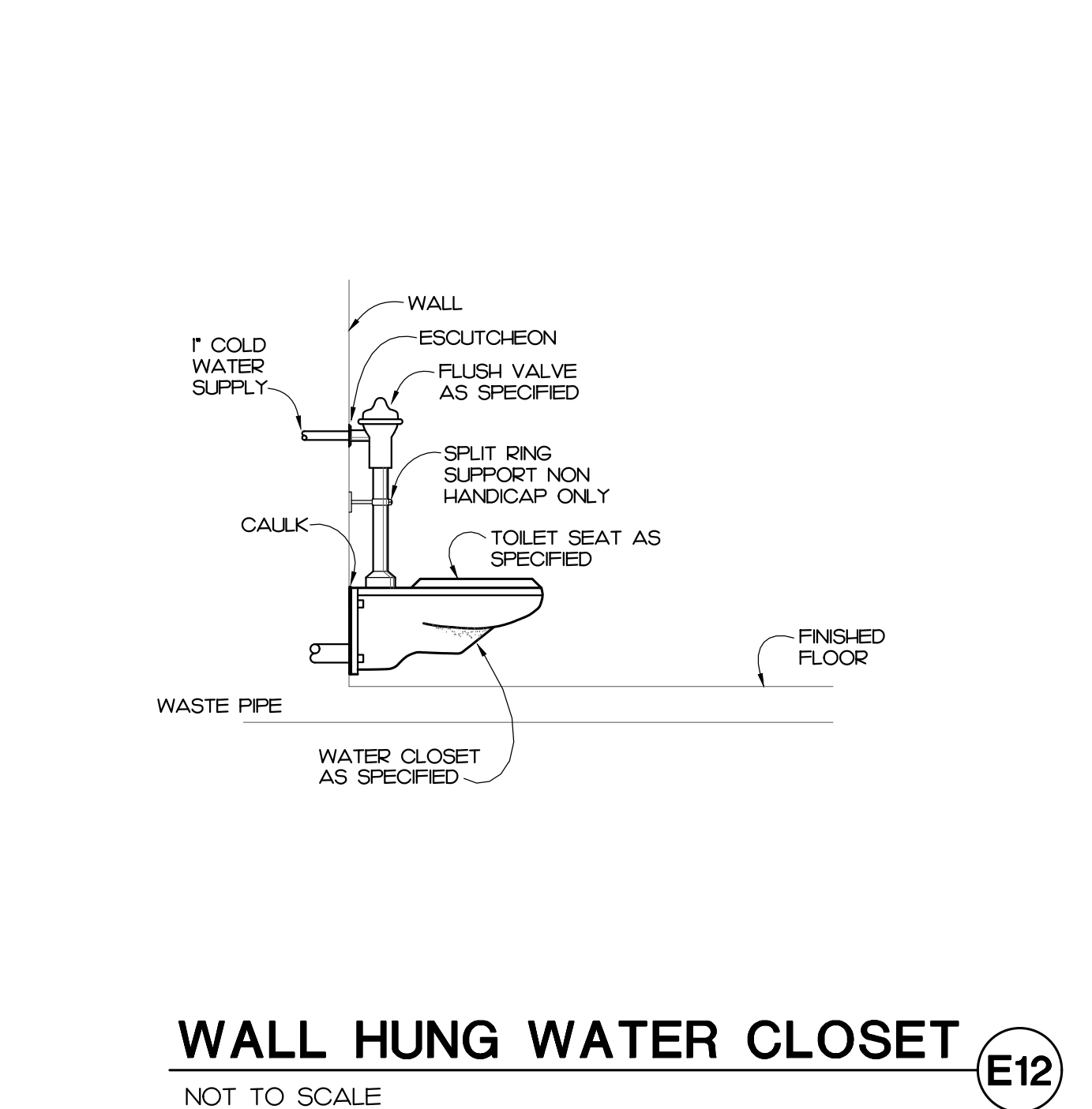
- ### PLUMBING GENERAL NOTES
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
 - ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
 - ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN, THE PLUMBING CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
 - THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
 - THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR.
 - WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER, SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR ONE HOUR AT 60 PSI TEST TO COMPLY WITH ALL EPA STANDARDS. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
 - ALL PIPE, FITTINGS, FIXTURES, AND SOLDER TO BE LEAD FREE.
 - WATER PIPING LOCATED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION (UNDERSIDE) AND WALL INSULATION (INSIDE).
 - ALL COLD AND HOT WATER PIPING SHALL BE INSULATED. INSULATE WASTE PIPING AS DESIGNATED ON PLUMBING DRAWINGS. INSULATION SHALL BE FIBERGLASS. EXPOSED PIPING TO BE WRAPPED WITH ALUMINUM JACKET.
 - DO NOT SUPPORT PIPING FROM BAR JOIST BRIDGING AND/OR ROOF DECK.
 - WATER SHUT - OFF VALVES ABOVE FINISHED CEILING ARE TO BE FREE FROM OBSTRUCTIONS SUCH AS DUCTWORK, LIGHTS, WIRING AND OTHER PIPING SO AS TO PROVIDE EASY ACCESS. MOUNT NO MORE THAN 2'-0" ABOVE FINISHED CEILING.
 - IF THE WATER PRESSURE EXCEEDS 80 PSI A PRESSURE REDUCING VALVE SHALL BE INSTALLED WHERE THE WATER ENTERS THE BUILDING.
 - PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL.
 - WATER HEATERS SHALL HAVE AN EFFICIENCY MEETING REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
 - THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT FURNISHED UNDER HIS CONTRACT.
 - SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC, CELLULAR CORE (FOAM CORE) IS NOT ALLOWED. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT.
 - THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
 - THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH OTHERS AND AVOID ALL CONFLICTS.
 - LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC.) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.
 - VERIFY THE LOCATION OF ALL EQUIPMENT SUPPLIED BY OTHERS.
 - GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL INSTALLED IN ACCORDANCE WITH ALL CODES. THE PLUMBING CONTRACTOR TO MAKE FINAL CONNECTION TO ALL EQUIPMENT REQUIRING GAS AND COORDINATE THE GAS CONNECTION SIZE TO THE EQUIPMENT. PROVIDE UNDERGROUND MAGNETIC TRACING TAPE ON ALL UNDERGROUND GAS PIPING.
 - ROOF DRAIN LEADERS SHALL BE SCHEDULE PVC, SLOPED AT 1/8" PER FOOT (UNLESS OTHERWISE NOTED). HORIZONTAL PIPING SHALL BE INSULATED WITH FIBERGLASS. THE PLUMBING CONTRACTOR SHALL MAKE CONNECTION TO ROOF DRAIN. ROOF DRAINS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
 - PROVIDE VACUUM BREAKERS ON ALL EQUIPMENT DIRECTLY CONNECTED TO THE WATER SYSTEM.
 - ALL VENT PIPING THROUGH THE ROOF SHALL BE A MINIMUM OF 6'-0" FROM ALL MAKE-UP AIR INLETS OR A MINIMUM OF 2'-0" ABOVE THE TOP OF ALL MAKE-UP AIR INLETS. VENTS THROUGH ROOF ARE TO BE ON REAR OF BUILDING.
 - SEE ARCHITECTURAL DRAWINGS FOR PLUMBING MINIMUM FACILITY CALCULATIONS.
 - ALL INDIRECT WASTE IS TO BE PROVIDED WITH AN AIR GAP 2 TIMES THE SIZE OF THE WASTE INLET.
 - THE PLUMBING CONTRACTOR SHALL VERIFY BUILDING FLOOR ELEVATION IS ABOVE MAN-HOLE RIM ELEVATION OR PROVIDE A BACKWATER VALVE AS REQUIRED.
 - THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR DEMOLITION AT NO COST TO THE OWNER.
 - THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.



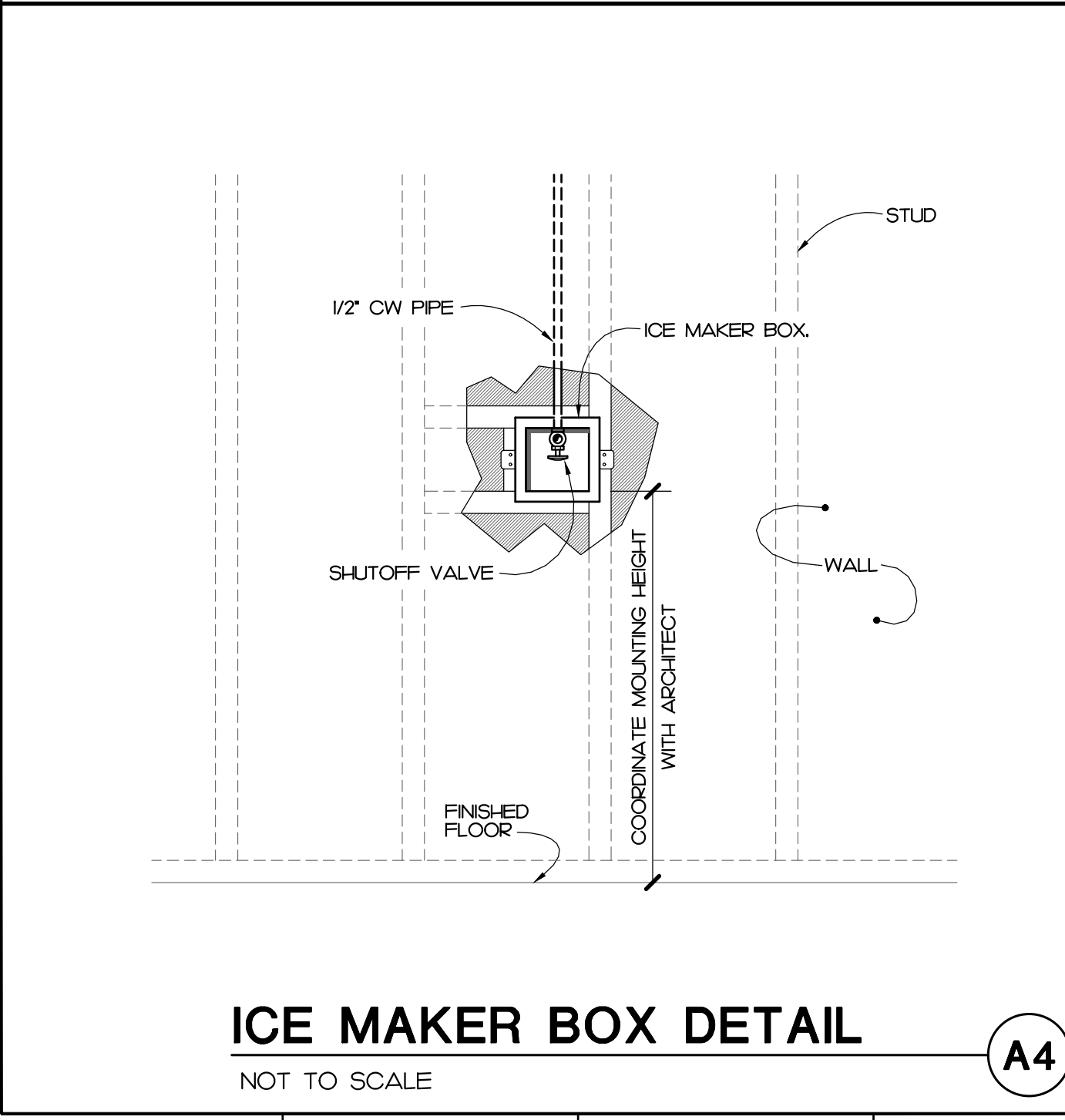
HARD WIRED PLUMBING FIXTURES (E4)
NOT TO SCALE



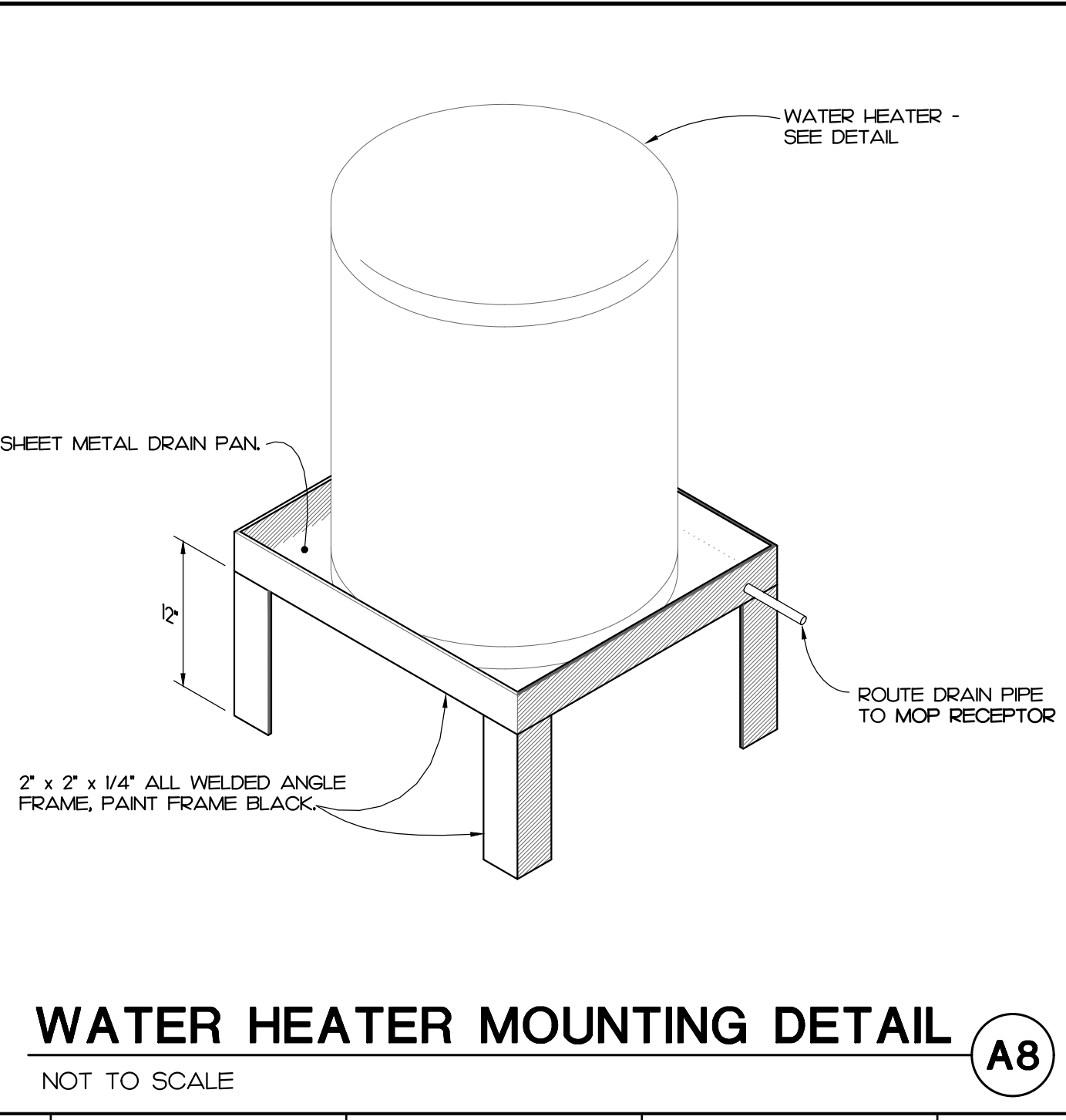
WATER HEATER DETAIL (E8)
NOT TO SCALE



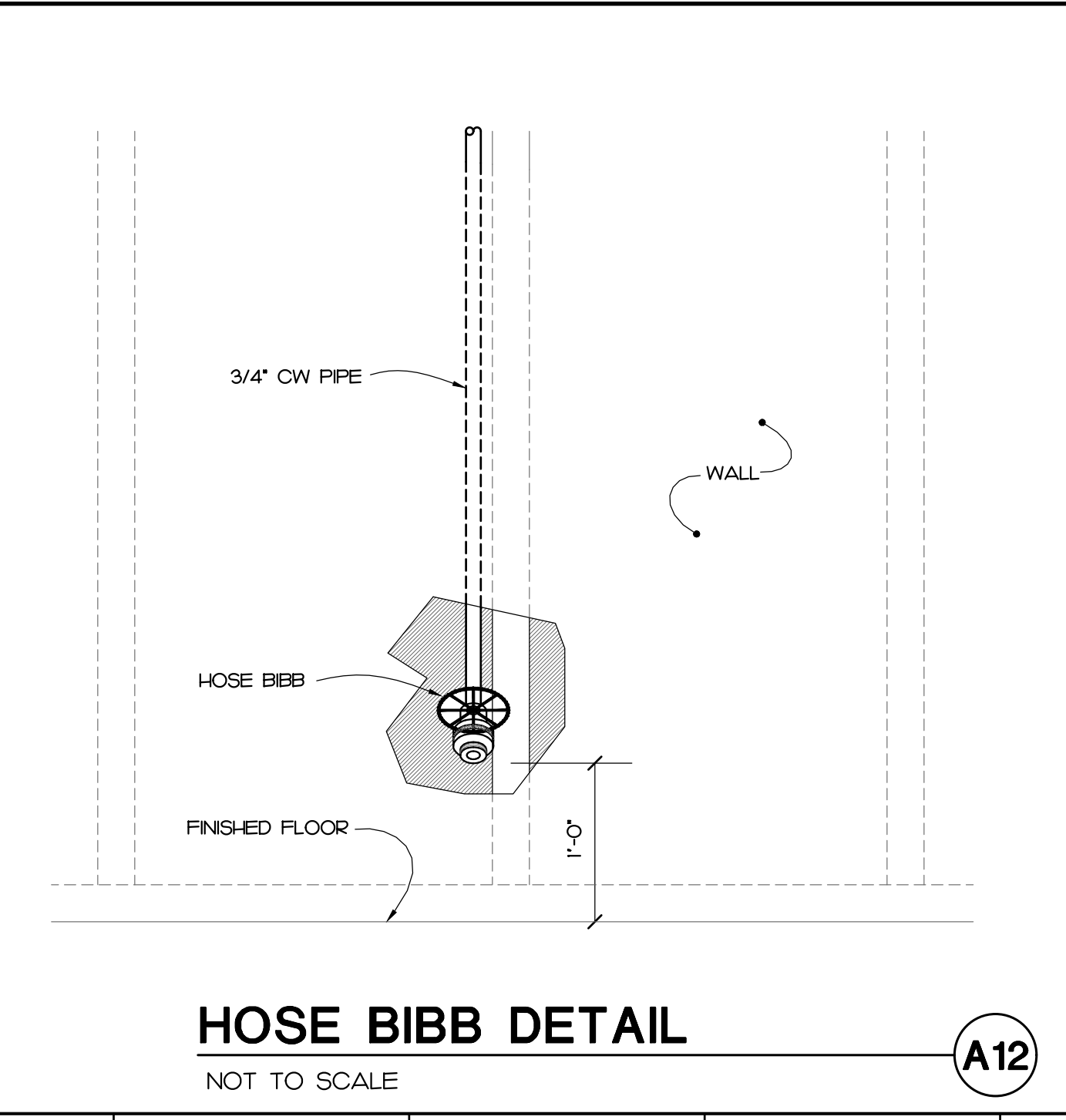
WALL HUNG WATER CLOSET (E12)
NOT TO SCALE



ICE MAKER BOX DETAIL (A4)
NOT TO SCALE



WATER HEATER MOUNTING DETAIL (A8)
NOT TO SCALE



HOSE BIBB DETAIL (A12)
NOT TO SCALE

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
---	COLD WATER PIPING
--->	WATER PIPING DIRECTION OF FLOW
---	120' F HOT WATER PIPING
---	HOT WATER RETURN PIPING
○	BALL VALVE
○	WATER PIPING TURNED DOWN
○	WATER PIPING TURNED UP
---	PIPING SIDE CONNECTION
---	GAS PIPING
---	SANITARY SEWER / WASTE PIPING
---	SANITARY SEWER / WASTE PIPING DIRECTION OF FLOW
---	VENT PIPING
---	VENT PIPE UP
□	PLUMBING FIXTURE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR
□	PLUMBING FIXTURE PROVIDED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR
---	1 - HOUR RATED WALL

PLUMBING LOAD SUMMARY

	WATER DEMAND FU	WATER DEMAND GPM	SANITARY SEWER DEMAND FU	GAS MBH
HEADQUARTERS	249	101	133	MBH

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KEY PLAN

NO	REVISION	DATE

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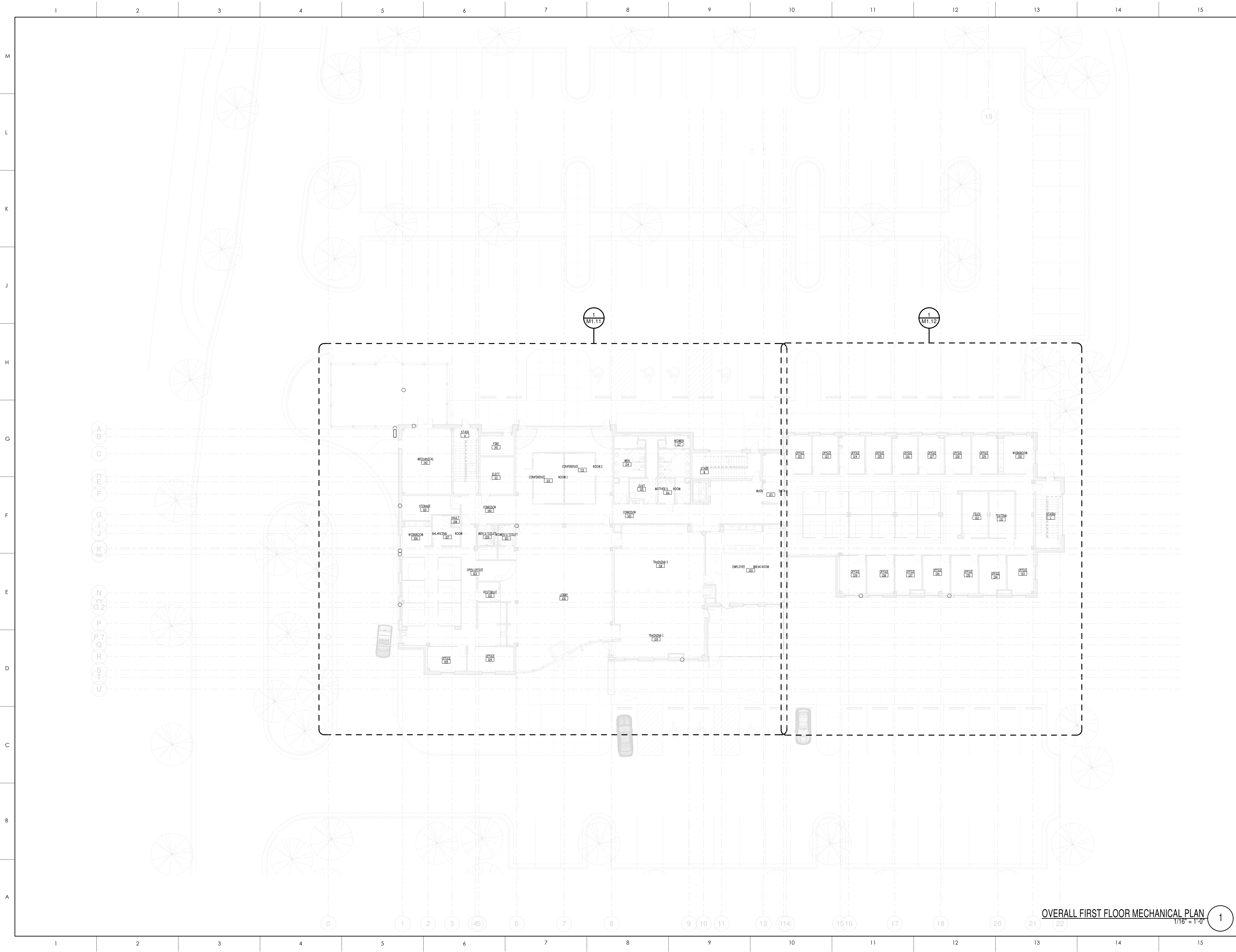
625 LYNDALE CT, SUITE F, GREENVILLE, NC 27638 252-355-1048

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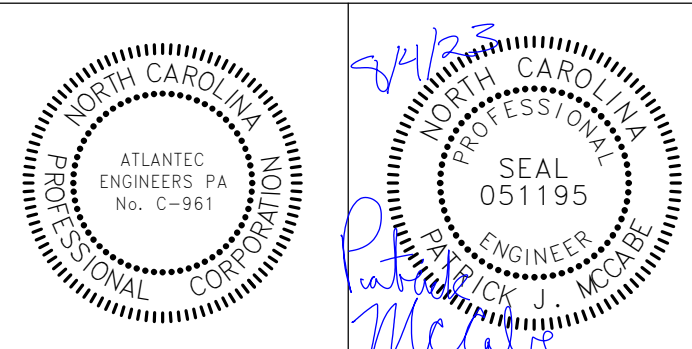
DRAWING TITLE
PLUMBING NOTES, LEGEND, LOAD, AND DETAILS

SCALE	DRAWING NO.
AS NOTED	P4.4
DRAWN DRD	
CHECKED JBD	
DATE 07-15-2023	
PROJECT NO. 2022-17	

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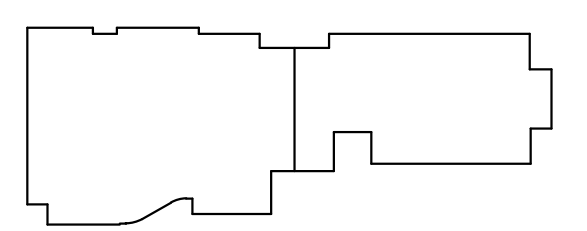


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GENERAL NOTES

KEY PLAN



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STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

DRAWING TITLE
OVERALL FIRST FLOOR MECHANICAL PLAN

SCALE	1/16" = 1'-0"
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

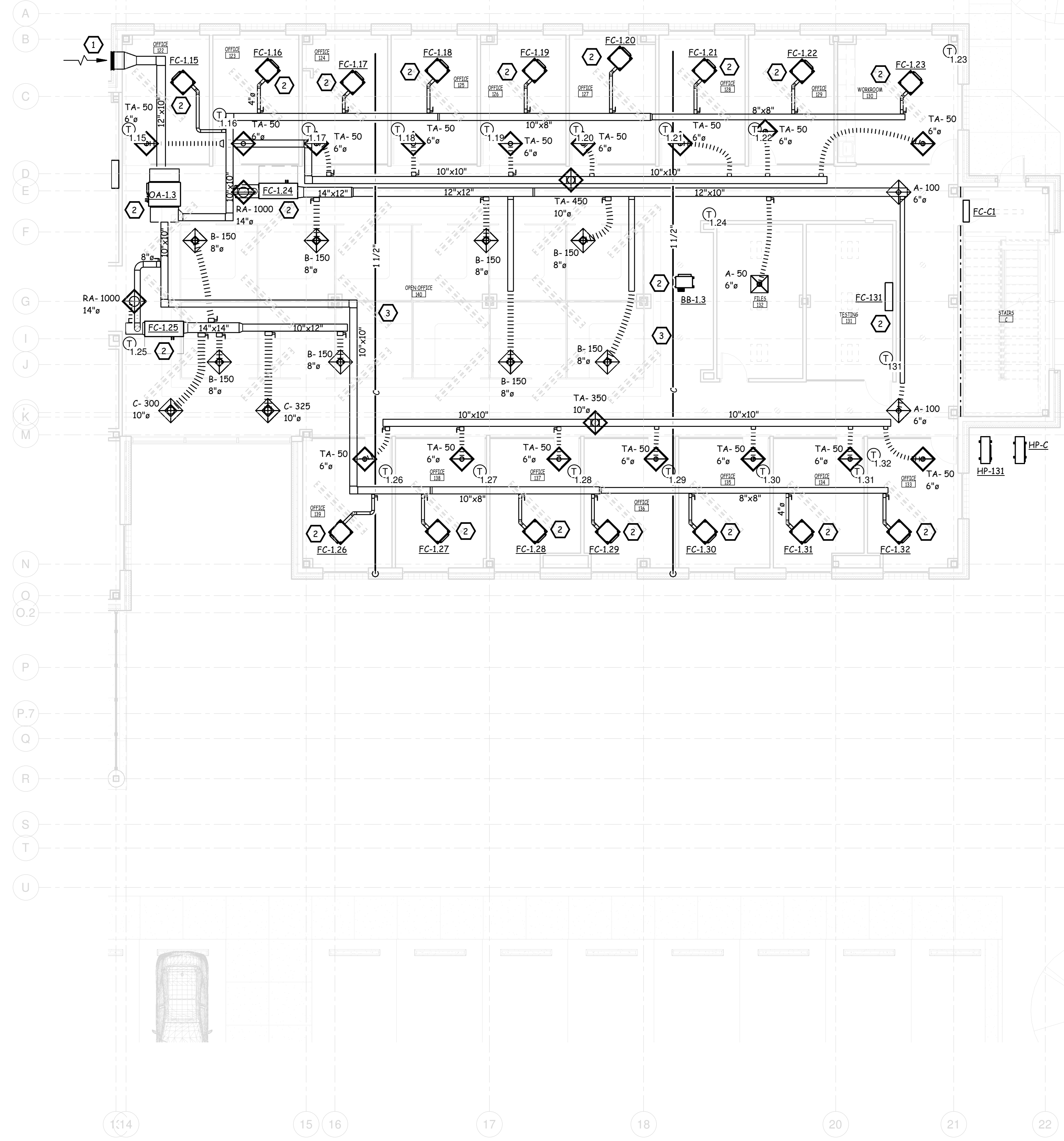
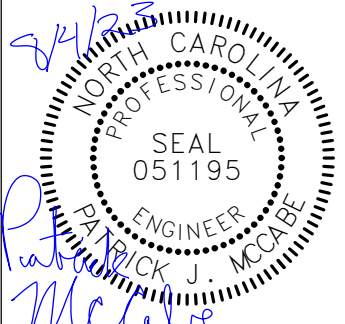
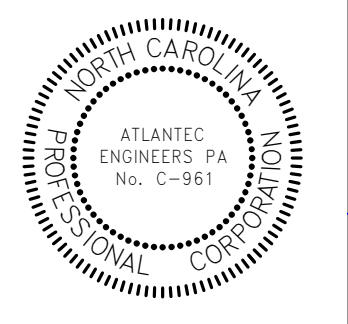
M1.1

OVERALL FIRST FLOOR MECHANICAL PLAN 1
1/16" = 1'-0"

KEY NOTES FOR 1/M1.12	
1	PROVIDE OUTSIDE AIR LOUVER (24X24) EQUAL TO POTTORFF EFD-445 FOR 0.75 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT AND WALL OPENING SIZE WITH ARCHITECT.
2	ROUTE CONDENSATE TO STORM DRAIN LEADER VIA COLLECTION SYSTEM BY M.C.
3	PROVIDE 1 1/2" CONDENSATE COLLECTION PIPE. CONNECT TO RDL AS SHOWN. COORDINATE WITH P.C.

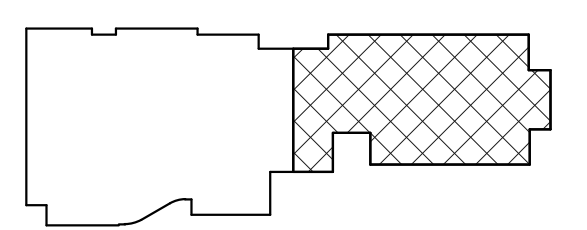
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GENERAL NOTES

KEY PLAN



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CLINTON, NC

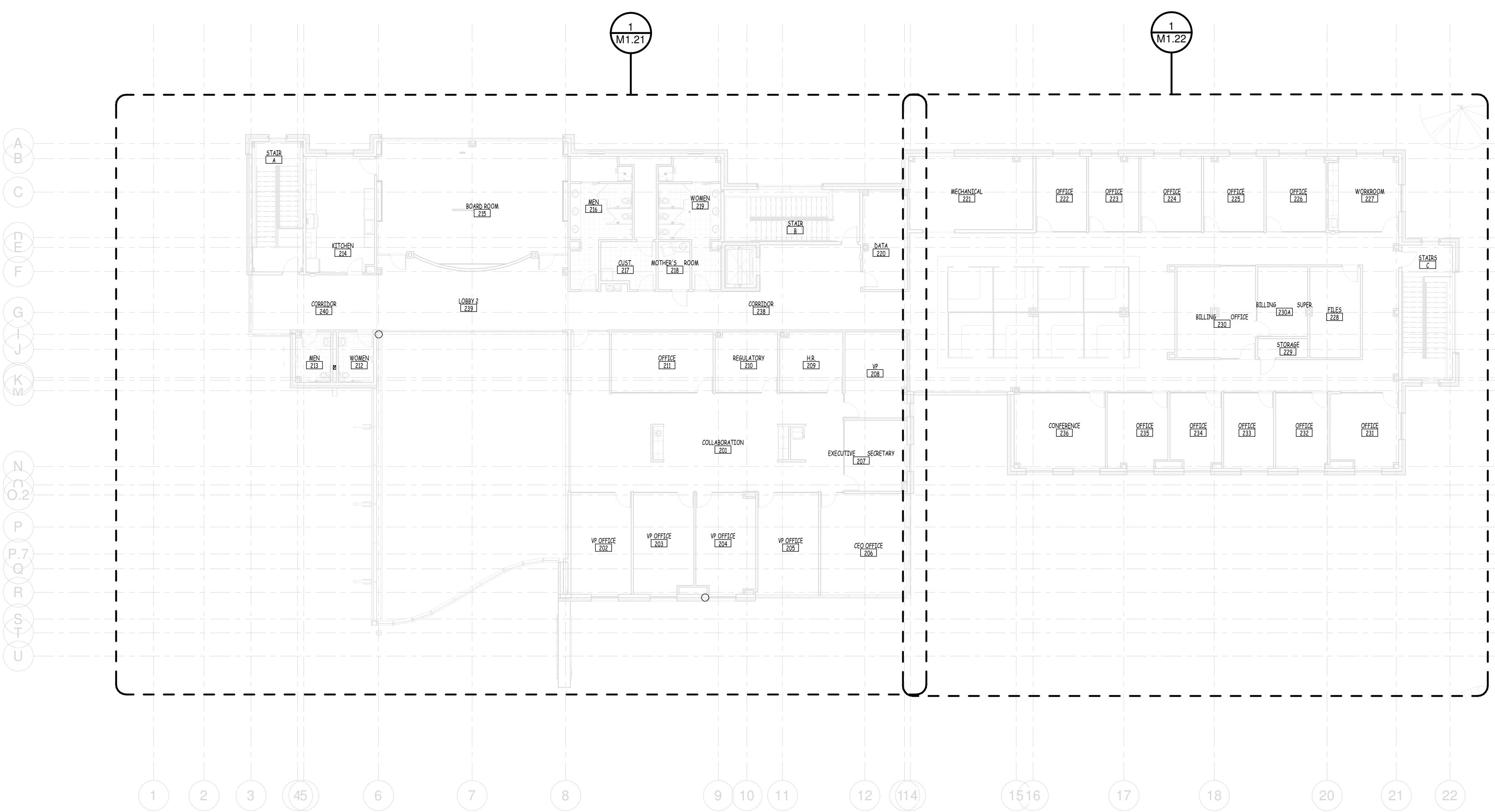
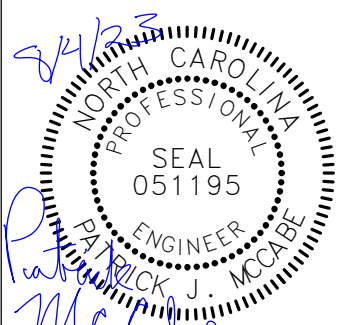
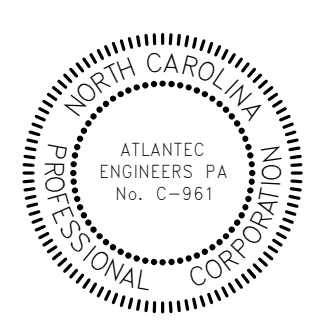
DRAWING TITLE
OFFICE BUILDING FIRST FLOOR
MECHANICAL PLAN - EAST

SCALE	1/8" = 1'-0"
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

M1.12

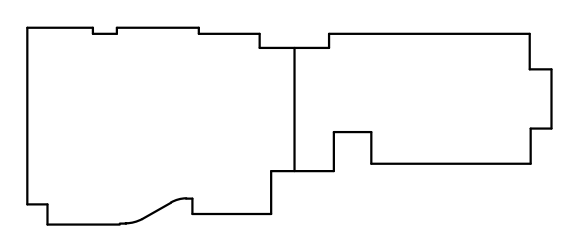
FIRST FLOOR MECHANICAL PLAN - EAST
1/8" = 1'-0" 1

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GENERAL NOTES

KEY PLAN



NO	REVISION	DATE

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STAR COMMUNICATIONS NEW
HEADQUARTERS
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DRAWING TITLE
**OVERALL SECOND FLOOR MECHANICAL
PLAN**

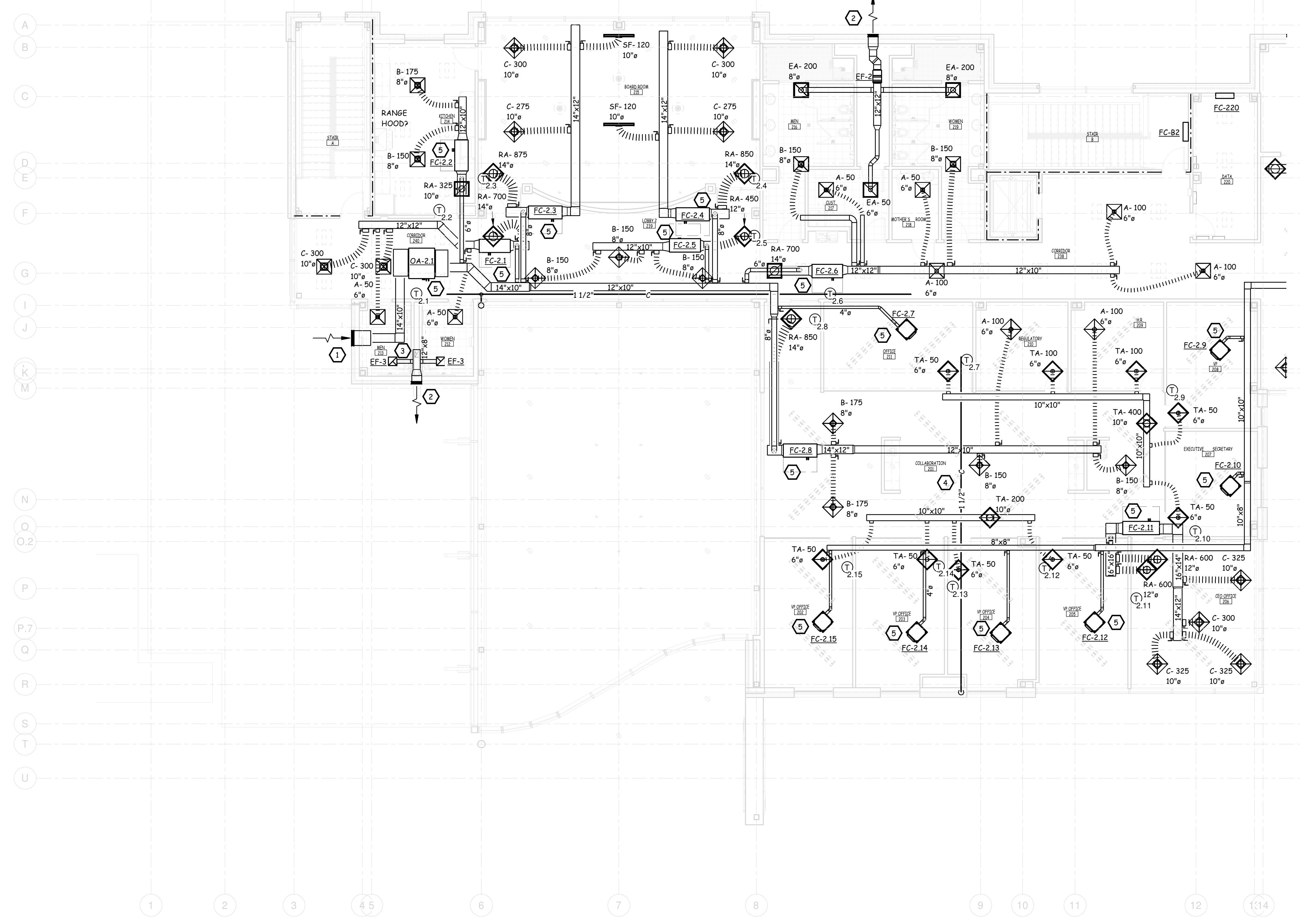
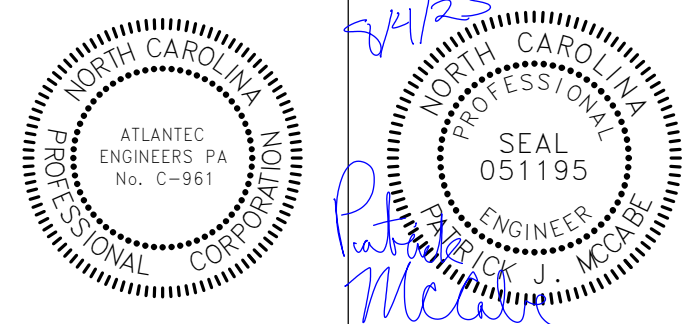
SCALE 1/16" = 1'-0"
DRAWN PJM
CHECKED PJM
DATE 07-15-2023
PROJECT NO. 2022-17

M1.2

OVERALL SECOND FLOOR MECHANICAL PLAN 1
1/16" = 1'-0"

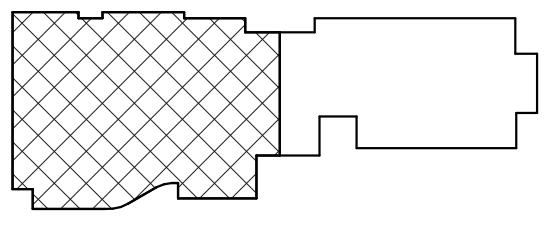
KEY NOTES FOR 1/M1.21	
1	PROVIDE OUTSIDE AIR LOUVER (24X16) EQUAL TO POTTORFF EFD-445 FOR 0.56 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT AND WALL OPENING SIZE WITH ARCHITECT.
2	PROVIDE EXHAUST AIR LOUVER (16X16) EQUAL TO POTTORFF EFD-445 FOR 0.56 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT AND WALL OPENING SIZE WITH ARCHITECT.
3	10X6 EXHAUST DUCT UP FROM FIRST FLOOR. CONNECT TO 12X8 EXHAUST DUCT A/C.
4	PROVIDE 1 1/2" CONDENSATE COLLECTION PIPE. CONNECT TO RDL AS SHOWN. COORDINATE WITH P.C.
5	ROUTE CONDENSATE TO STORM DRAIN LEADER VIA COLLECTION SYSTEM BY M.C.

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GENERAL NOTES

KEY PLAN



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DRAWING TITLE
OFFICE BUILDING SECOND FLOOR
MECHANICAL PLAN - WEST

SCALE	1/8" = 1'-0"
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

M1.21

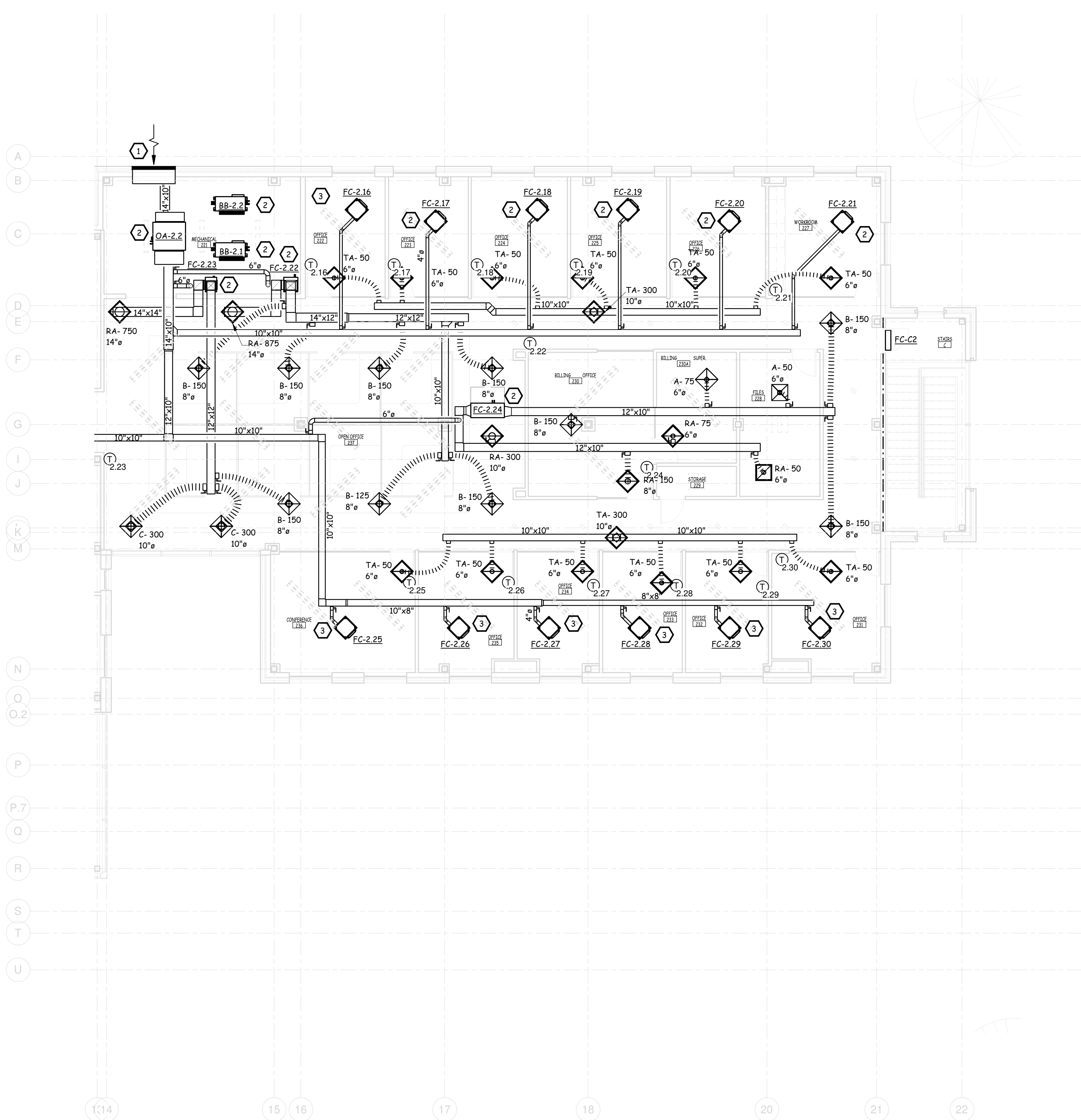
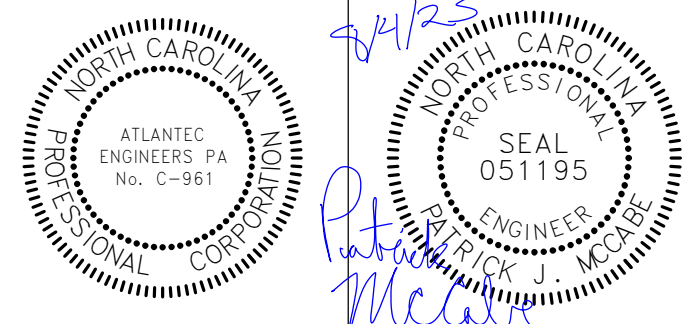
SECOND FLOOR MECHANICAL PLAN - WEST
1/8" = 1'-0" 1

KEY NOTES FOR 1/M1.22	
1	PROVIDE OUTSIDE AIR LOUVER (64X64) EQUAL TO POTTORFF EFD-445 FOR 0.88 SQFT OF FREE AREA. PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT AND WALL OPENING SIZE WITH ARCHITECT.
2	ROUTE CONDENSATE TO FLOOR DRAIN BY P.C. LOCATED IN MECHANICAL 221.
3	ROUTE CONDENSATE TO STORM DRAIN LEADER AS REQUIRED.

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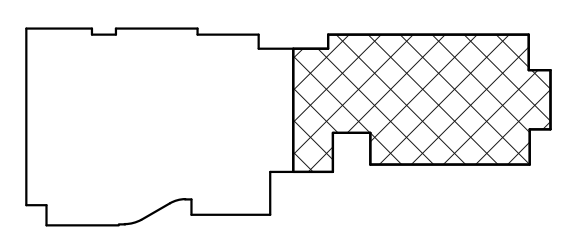
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GENERAL NOTES

KEY PLAN



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DRAWING TITLE
OFFICE BUILDING SECOND FLOOR
MECHANICAL PLAN - EAST

SCALE	1/8" = 1'-0"
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

M1.22

SECOND FLOOR MECHANICAL PLAN - EAST 1

FAN COIL SCHEDULE									
MARK	MANUFACTURER	MODEL	CFM	S.P.	POWER	PHASE	MCA	MOCF	NOTES
FC-1.1	mitsubishi	PVfy-P36Namu-E1	1100	0.8"	208 V	1	4.1 A	15 A	1-5
FC-1.2	mitsubishi	PVfy-P18Namu-E1	600	0.8"	208 V	1	3.0 A	15 A	1-5
FC-1.3	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.4	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.5	mitsubishi	PVfy-P08Namu-E1	400	0.8"	208 V	1	3.0 A	15 A	1-5
FC-1.6	mitsubishi	PVfy-P54Namu-E1	1500	0.8"	208 V	1	5.6 A	15 A	1-5
FC-1.7	mitsubishi	PVfy-P54Namu-E1	1500	0.8"	208 V	1	5.6 A	15 A	1-5
FC-1.8	mitsubishi	PVfy-P54Namu-E1	1500	0.8"	208 V	1	5.6 A	15 A	1-5
FC-1.9	mitsubishi	PVfy-P08Namu-E1	400	0.8"	208 V	1	3.0 A	15 A	1-5
FC-1.10	mitsubishi	PVfy-P24Namu-E1	750	0.8"	208 V	1	3.0 A	15 A	1-5
FC-1.11	mitsubishi	PVfy-P24Namu-E1	750	0.8"	208 V	1	3.0 A	15 A	1-5
FC-1.12	mitsubishi	PVfy-P24Namu-E1	750	0.8"	208 V	1	3.0 A	15 A	1-5
FC-1.13	mitsubishi	PVfy-P48Namu-E1	1400	0.8"	208 V	1	5.6 A	15 A	1-5
FC-1.14	mitsubishi	PVfy-P24Namu-E1	750	0.8"	208 V	1	3.0 A	15 A	1-5
FC-1.15	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.16	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.17	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.18	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.19	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.20	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.21	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.22	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.23	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.24	mitsubishi	PVfy-P36Namu-E1	1100	0.8"	208 V	1	4.1 A	15 A	1-5
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FC-1.26	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.27	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.28	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.29	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.30	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.31	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-1.32	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.1	mitsubishi	PVfy-P24Namu-E1	750	0.8"	208 V	1	3.0 A	15 A	1-5
FC-2.2	mitsubishi	PVfy-P08Namu-E1	400	0.8"	208 V	1	3.0 A	15 A	1-5
FC-2.3	mitsubishi	PVfy-P30Namu-E1	875	0.8"	208 V	1	4.1 A	15 A	1-5
FC-2.4	mitsubishi	PVfy-P30Namu-E1	875	0.8"	208 V	1	4.1 A	15 A	1-5
FC-2.5	mitsubishi	PVfy-P18Namu-E1	600	0.8"	208 V	1	3.0 A	15 A	1-5
FC-2.6	mitsubishi	PVfy-P24Namu-E1	750	0.8"	208 V	1	3.0 A	15 A	1-5
FC-2.7	mitsubishi	PLFY-P08NFmu-E	375	-	208 V	1	0.3 A	15 A	1-6
FC-2.8	mitsubishi	PVfy-P30Namu-E1	875	0.8"	208 V	1	4.1 A	15 A	1-5
FC-2.9	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.10	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.11	mitsubishi	PVfy-P48Namu-E1	1400	0.8"	208 V	1	5.6 A	15 A	1-5
FC-2.12	mitsubishi	PLFY-P15NFmu-E	300	-	208 V	1	0.4 A	15 A	1-6
FC-2.13	mitsubishi	PLFY-P08NFmu-E	375	-	208 V	1	0.3 A	15 A	1-6
FC-2.14	mitsubishi	PLFY-P08NFmu-E	375	-	208 V	1	0.3 A	15 A	1-6
FC-2.15	mitsubishi	PLFY-P08NFmu-E	375	-	208 V	1	0.3 A	15 A	1-6
FC-2.16	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.17	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.18	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.19	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.20	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.21	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.22	mitsubishi	PVfy-P30Namu-E1	875	0.8"	208 V	1	4.1 A	15 A	1-5
FC-2.23	mitsubishi	PVfy-P24Namu-E1	750	0.8"	208 V	1	3.0 A	15 A	1-5
FC-2.24	mitsubishi	PVfy-P18Namu-E1	600	0.8"	208 V	1	3.0 A	15 A	1-5
FC-2.25	mitsubishi	PLFY-P12NFmu-E	300	-	208 V	1	0.3 A	15 A	1-6
FC-2.26	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.27	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.28	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.29	mitsubishi	PLFY-P05NFmu-E	275	-	208 V	1	0.2 A	15 A	1-6
FC-2.30	mitsubishi	PLFY-P08NFmu-E	375	-	208 V	1	0.3 A	15 A	1-6
FC-111	mitsubishi	MSZ-FS12NA	350	-	208 V	1			1-6
FC-121	mitsubishi	MSZ-GS24NA	625	-	208 V	1			1-6
FC-131	mitsubishi	MSZ-GS24NA	625	-	208 V	1			1-6
FC-220	mitsubishi	MSZ-FS12NA	350	-	208 V	1			1-6
FC-A	mitsubishi	MSZ-FS12NA	350	-	208 V	1			1-6
FC-B1	mitsubishi	MSZ-FS12NA	350	-	208 V	1			1-6
FC-B2	mitsubishi	MSZ-FS12NA	350	-	208 V	1			1-6
FC-C1	mitsubishi	MSZ-FS12NA	350	-	208 V	1			1-6
FC-C2	mitsubishi	MSZ-FS12NA	350	-	208 V	1			1-6
FC-C3									

HEAT RECOVERY/PUMP SCHEDULE										
MARK	MANUFACTURER	MODEL	TOTAL COOLING CAPACITY	SENSIBLE COOLING CAPACITY	HEATING CAPACITY	POWER	PHASE	MCA #1	MOCF #1	NOTES
HP-1A	mitsubishi	PURY-P288YSNU-A	288.0 MBH	216.0 MBH	323.0 MBH	460 V	3	20 A	30 A	1-4
HP-1B	mitsubishi	PURY-P192YSNU-A	192.0 MBH	144.0 MBH	215.0 MBH	460 V	3	15 A	20 A	1-4
HP-2A	mitsubishi	PURY-P192YSNU-A	192.0 MBH	144.0 MBH	215.0 MBH	460 V	3	15 A	20 A	1-4
HP-2B	mitsubishi	PURY-P144YNU-A	144.0 MBH	108.0 MBH	160.0 MBH	460 V	3	20 A	30 A	1-3.5
HP-OA-1	mitsubishi	PUHY-P144YNU-A	144.0 MBH	108.0 MBH	160.0 MBH	460 V	3	22 A	35 A	1-3.5
HP-OA-2	mitsubishi	PUHY-P144YNU-A	144.0 MBH	108.0 MBH	160.0 MBH	460 V	3	22 A	35 A	1-3.5
HP-B	mitsubishi	MXZ-3C24NA3	24.0 MBH	19.2 MBH	24.0 MBH	208 V	1	22 A	25 A	1-3.6
HP-220	mitsubishi	MUZ-6S12NA	12.0 MBH	9.6 MBH	12.0 MBH	208 V	1	10 A	15 A	1-3.6
HP-121	mitsubishi	MUZ-6S24NA	24.0 MBH	19.2 MBH	24.0 MBH	208 V	1	18 A	20 A	1-3
HP-111	mitsubishi	MUZ-6S24NA	24.0 MBH	19.2 MBH	24.0 MBH	208 V	1	18 A	20 A	1-3
HP-131	mitsubishi	MUZ-6S24NA	24.0 MBH	19.2 MBH	24.0 MBH	208 V	1	18 A	20 A	1-3
HP-A	mitsubishi	MUZ-6S12NA	12.0 MBH	9.6 MBH	12.0 MBH	208 V	1	10 A	15 A	1-3
HP-C	mitsubishi	MXZ-3C24NA3	24.0 MBH	19.2 MBH	24.0 MBH	208 V	1	22 A	25 A	1-3.6

- NOTES:
1. PROVIDE WITH HEAVY DUTY FUSIBLE DISCONNECT.
 2. PROVIDE WITH LOW AMBIENT CONTROLS FOR OPERATION DOWN TO 0 DEGREES FAHRENHEIT.
 3. PROVIDE WITH BACNET INTERFACE TO CONTROL VIA BAS.
 4. VRF HEAT RECOVERY SYSTEM. SEE M4 SHEETS FOR MORE INFORMATION.
 5. VRF HEAT PUMP SYSTEM FOR 100% OUTSIDE AIR UNITS. SEE M4 SHEETS FOR MORE INFORMATION.
 6. ONE OUTDOOR UNIT CONTROLS TWO INDOOR UNITS. PROVIDE ALL NECESSARY ACCESSORIES.

100% OUTSIDE AIR UNIT									
MARK	MANUFACTURER	MODEL	CFM	S.P.	POWER	PHASE	MCA	MOCF	NOTES
OA-1.1	mitsubishi	PEFY-P72NMHU-E-OA	700	1.0"	208 V	1	4.8 A	15 A	1-4
OA-1.2	mitsubishi	PEFY-P72NMHU-E-OA	700	1.0"	208 V	1	4.8 A	15 A	1-4
OA-1.3	mitsubishi	PEFY-P48NMHU-E-OA	600	1.0"	208 V	1	3.3 A	15 A	1-6
OA-2.1	mitsubishi	PEFY-P72NMHU-E-OA	700	1.0"	208 V	1	4.8 A	15 A	1-4
OA-2.2	mitsubishi	PEFY-P72NMHU-E-OA	700	1.0"	208 V	1	4.8 A	15 A	1-4

- NOTES:
1. PROVIDE WITH MOTOR RATED DISCONNECT SWITCH.
 2. CONTROL VIA BAS SYSTEM TO RUN WHEN OCCUPIED.
 3. SEE PLAN FOR DISCHARGE LOCATION OF CONDENSATE.
 4. PROVIDE WITH 2" DISPOSABLE MERV 13 FILTERS.
 5. PROVIDE WITH CONDENSATE PUMP.
 6. UNIT IS PART OF VRF HEAT RECOVERY SYSTEM HP-1B.

VRF NOTE:
INSTALL PIPING IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. CONTRACTOR MUST BE FACTORY TRAINED TO INSTALL EQUIPMENT. CONTRACTOR SHALL INCLUDE FACTORY START-UP AND FIELD SUPERVISION OF INSTALL BY QUALIFIED FACTORY TECHNICIAN. SEE M4 SHEETS FOR PIPING AND ELECTRICAL WIRING.

CONTRACTOR IS RESPONSIBLE FOR ALTERNATE SYSTEM DESIGN OF PIPING AND ELECTRICAL CONNECTIONS IF DIFFERENT FROM THESE DOCUMENTS. CONTRACTOR SHALL PROVIDE PROOF OF SUCCESSFUL INSTALLATION AND TRAINING WITH SUBMITTALS.

BRANCH BOX SCHEDULE							
MARK	MANUFACTURER	MODEL	POWER	PHASE	MCA	MOCF	NOTES
BB-1.1	mitsubishi	CMB-P1016NU-JA1	208 V	1	1.6 A	20 A	1-4
BB-1.2	mitsubishi	CMB-P1016NU-JA1	208 V	1	1.6 A	20 A	1-4
BB-1.3	mitsubishi	CMB-P104NU-KB1	208 V	1	0.4 A	20 A	1-4
BB-2.1	mitsubishi	CMB-P1016NU-JA1	208 V	1	1.6 A	20 A	1-4
BB-2.2	mitsubishi	CMB-P1016NU-JA1	208 V	1	1.6 A	20 A	1-4

- NOTES:
1. PROVIDE WITH DISCONNECT SWITCH.
 2. PROVIDE WITH CONDENSATE DRAIN FOR MULTIPORT BOX WITH CONDENSATE PUMP. SEE PLAN FOR DISCHARGE LOCATION.
 3. SEE PIPING SCHEMATIC FOR ADDITIONAL PIPING DETAILS.
 4. UNUSED PORTS SHALL BE CAPPED FOR FUTURE USE.

- NOTES:
1. PROVIDE WITH MOTOR RATED DISCONNECT SWITCH.
 2. SEE OUTSIDE AIR SUMMARY FOR OUTSIDE AIR INTAKE FLOW SETTINGS.
 3. PROVIDE WITH 2" DISPOSABLE MERV 13 FILTERS.
 4. PROVIDE WITH WALL MOUNTED TEMPERATURE SENSOR TO CONTROL VIA BAS.
 5. SEE PLAN FOR CONDENSATE DISCHARGE LOCATION.
 6. PROVIDE WITH CONDENSATE PUMP.

EXHAUST FAN SCHEDULE											
MARK	MANUFACTURER	MODEL	SERVICE	TYPE	CFM	RPM	HP/AMPS	S.P.	POWER	PHASE	NOTES
EF-1	COOK	100 SQN-D	TOILETS	INLINE FAN	450	1200	1/6 HP	0.5"	120 V	1	1, 2, 4
EF-2	COOK	100 SQN-D	TOILETS	INLINE FAN	450	1200	1/6 HP	0.5"	120 V	1	1, 2, 4
EF-3	COOK	6C-140	TOILET	CABINET FAN	105	1500	67 Watts	0.25"	277 V	1	1-3
EF-4	COOK	12 XPD	RISER	SIDEWALL FAN	1000	1550	1/4 HP	0.25"	120 V	1	1, 2, 5

- NOTES:
1. PROVIDE WITH DISCONNECT SWITCH.
 2. PROVIDE WITH BACKDRAFT DAMPER.
 3. CONTROL VIA LIGHT SWITCH BY E.C.
 4. CONTROL FAN VIA BAS SCHEDULE.
 5. PROVIDE WITH WALL MOUNTED THERMOSTAT.

GRILLE & DIFFUSER SCHEDULE									
MARK	MANUFACTURER	MODEL	SERVICE	TYPE	MAX FLOW	FACE SIZE	NECK SIZE	NOTES	
A		SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	100 CFM	24x24	6"ø	1-3	
B		SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	200 CFM	24x24	8"ø	1-3	
C		SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	300 CFM	24x24	10"ø	1-3	
D		510	SUPPLY	DUCT MOUNTED	300 CFM	6x14	-	1, 2, 5, 6	
E		LBPH 15B	SUPPLY	LINEAR BAR GRILLE	375 CFM	50x5	48x3	1-4, 6, 7	
EA		530	EXHAUST	LOUVERED LAY-IN	1000 CFM	24x24	SEE DWG	1-3	
RA		530	RETURN	LOUVERED LAY-IN	1000 CFM	24x24	SEE DWG	1-3	
RB		530	RETURN	SURFACE MOUNT	1350 CFM	24x24	SEE DWG	1-4	
SF		TRD3 1" WIDTH	SUPPLY	LINEAR SLOT	325 CFM	48" - 2 SLOT	10"ø	1, 2	
TA		530	TRANSFER	LOUVERED LAY-IN	1000 CFM	24x24	SEE DWG	1-3	

- NOTES:
1. COORDINATE FINISH WITH ARCHITECT.
 2. GRILLE TO HAVE FULLY LOUVERED FACE.
 3. PROVIDE WITH INSULATED SHEET METAL PLENUM.
 4. PROVIDE WITH FRAME FOR SURFACE MOUNTING.
 5. PROVIDE WITH FRAME FOR DUCT MOUNTING.
 6. PROVIDE WITH OPPOSED BLADE DAMPER.
 7. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.

ELECTRIC UNIT HEATER SCHEDULE										
MARK	MANUFACTURER	MODEL	SERVICE	CFM	CAPACITY	FLA	HEATER KW	POWER	PHASE	NOTES
UH-1	QMARK	CWH3404F	RISER	100	10.2 MBH	14.5 A	3.0 KW	208 V	1	1-3

- NOTES:
1. PROVIDE WITH POWER DISCONNECT.
 2. PROVIDE WITH INTEGRAL THERMOSTAT.
 3. PROVIDE WITH SURFACE MOUNTING KIT.

Sequence of Operations for Mechanical, Electrical and Plumbing Systems

THE BAS SHALL CONTROL AND MONITOR THE MECHANICAL, PLUMBING AND ELECTRICAL SYSTEM STATED HEREIN. THE CONTRACTOR SHALL PROVIDE THE NECESSARY HARDWARE, SOFTWARE, SENSORS, WIRING, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM TO THE SATISFACTION OF THE OWNER AND ENGINEER. THIS WILL INCLUDE GRAPHICS. THE OWNER SHALL BE THE LICENSE HOLDER FOR ALL SOFTWARE TO BE USED ON SITE.

Mechanical:

VRF SYSTEM (AIR HANDLERS)

A. OCCUPIED MODE:

- THE AIR HANDLING UNIT SUPPLY FAN SHALL BE STARTED AND STOPPED BY THE ENERGY MANAGEMENT SYSTEM UNDER A TIME OF DAY SCHEDULE. THIS SCHEDULE SHALL BE MODIFIED BY AN START STOP OPTIMIZATION PROGRAM THROUGH THE AE-200 CONTROLLER.
- DURING OCCUPANCY, UPON PROOF OF AIR FLOW THRU THE SUPPLY FAN THE NORMALLY CLOSED OUTSIDE AIR DAMPER SHALL BE ENABLED.
- THE SUPPLY AIR TEMPERATURE SHALL BE RESET FROM 55° F TO 70° F AS THE OUTDOOR TEMPERATURE CHANGES FROM 70° F TO 30° F.
- SMOKE DETECTION & AHU SHUTDOWN: THE BUILDING FIRE ALARM SYSTEM SHALL PROVIDE AN AHU SHUT DOWN SIGNAL TO EACH AHU. THE BUILDING FIRE ALARM SYSTEM SHALL PROVIDE ONE DIGITAL OUTPUT TO THE BAS TO INDICATE ALARM CONDITION. WIRING FOR THIS ALARM POINT SHALL BE PROVIDED BY THE BAS SUBCONTRACTOR
- VENTILATION CYCLES: DURING THE OCCUPIED PERIOD THE 100% OUTSIDE AIR UNIT SHALL BE ENABLED.
- COOLING/HEATING SHALL BE INDEXED TO MAINTAIN SETPOINT.

B. UNOCCUPIED MODE:

- THE AIR HANDLING UNIT SHALL BE DISABLED UNLESS ANY OF THE ASSOCIATED SPACE TEMPERATURE DROPS BELOW THE UNOCCUPIED LOW LIMIT SETPOINT OR RISES ABOVE THE UNOCCUPIED HIGH LIMIT. WHEN THE TEMPERATURE DROPS BELOW THE UNOCCUPIED LOW LIMIT SETPOINT OR RISES ABOVE THE UNOCCUPIED HIGH LIMIT, THE UNIT SHALL OPERATE IN PREPARATORY MODE.
- WHEN THE UNIT IS DISABLED, THE SUPPLY FAN IS OFF. THE OUTDOOR AIR DAMPERS AND RELIEF AIR DAMPERS ARE CLOSED. THE RETURN AIR DAMPERS ARE OPEN.

IN ADDITION TO THE SEQUENCE NOTED ABOVE THE ENERGY MANAGEMENT SYSTEM SHALL MONITOR THE FOLLOWING DIGITAL AND ANALOG INPUT POINTS:

- SUPPLY TEMPERATURE
- MIXED AIR TEMPERATURE
- SUPPLY FAN ON/OFF
- SUPPLY FAN FAULT
- CONDENSING UNIT STAGES
- CONDENSING UNIT FAULT

VRF 100% OUTSIDE AIR UNIT

- DURING OCCUPIED HOURS THE FAN SHALL RUN AND DISCHARGE AIR SET TO DELIVER 55°F. SUPPLY AIR SHALL BE RESET.
- THE SUPPLY AIR TEMPERATURE SHALL BE RESET FROM 55° F TO 70° F AS THE OUTDOOR TEMPERATURE CHANGES FROM 70° F TO 30° F. THE DX COOLING STAGES AND ECONOMIZER DAMPERS SHALL BE SEQUENCED TO ACHIEVE SETPOINT.

BAS OVERRIDE

ACTIVATION OF THE OVERRIDE PUSHBUTTON AT THE WALL MOUNTED TEMPERATURE SENSOR WILL SWITCH AN AIR HANDLING UNIT CONTROL SEQUENCE FROM THE UNOCCUPIED TO THE OCCUPIED MODE FOR A PROGRAMMABLE TIME PERIOD. THE INITIAL SET UP TIME PERIOD SHALL BE TWO HOURS.

THE IT ROOMS, STAIR B, TESTING ROOM, AND ELECTRICAL ROOM, CONDITIONED BY DUCTLESS SPLIT SYSTEM, WILL HAVE WALL SENSOR TO MONITOR SPACE TEMPERATURE. UNITS SHALL HAVE WALL MOUNTED THERMOSTATS FOR LOCAL CONTROL.

PLUMBING:

THE BAS SHALL MONITOR WATER METERS.

OUTSIDE AIR SUMMARY

REQUIRED:

1ST FLOOR OFFICE = 13005 SQFT * 0.06 CFM/SQFT + 81 PERSONS * 5.0 CFM/PERSON = 1185 CFM
 2ND FLOOR OFFICE = 12708 SQFT * 0.06 CFM/SQFT + 114 PERSONS * 5.0 CFM/PERSON = 1333 CFM
 TRAINING = 1792 SQFT * 0.06 CFM/SQFT + 50 PERSONS * 5.0 CFM/PERSON = 358 CFM
 RETAIL = 2192 SQFT * 0.12 CFM/SQFT + 35 PERSONS * 7.5 CFM/PERSON = 526 CFM

TOTAL REQUIRED = 3402 CFM

PROVIDED:

- | | |
|-------------------|-------------------|
| OA-1.1 = 700 CFM | OA-2.1 = 700 CFM |
| FC-1.1 = 100 CFM | FC-2.1 = 50 CFM |
| FC-1.2 = 100 CFM | FC-2.2 = 50 CFM |
| FC-1.3 = 25 CFM | FC-2.3 = 150 CFM |
| FC-1.4 = 25 CFM | FC-2.4 = 150 CFM |
| FC-1.5 = 75 CFM | FC-2.5 = 50 CFM |
| FC-1.6 = 175 CFM | FC-2.6 = 75 CFM |
| FC-1.8 = 200 CFM | FC-2.7 = 50 CFM |
| OA-1.2 = 900 CFM | OA-2.2 = 700 CFM |
| FC-1.7 = 150 CFM | FC-2.9 = 25 CFM |
| FC-1.9 = 75 CFM | FC-2.10 = 20 CFM |
| FC-1.10 = 50 CFM | FC-2.11 = 25 CFM |
| FC-1.11 = 125 CFM | FC-2.12 = 25 CFM |
| FC-1.12 = 175 CFM | FC-2.13 = 25 CFM |
| FC-1.13 = 175 CFM | FC-2.14 = 25 CFM |
| FC-1.14 = 150 CFM | FC-2.15 = 25 CFM |
| OA-1.3 = 600 CFM | FC-2.16 = 20 CFM |
| FC-1.15 = 20 CFM | FC-2.17 = 20 CFM |
| FC-1.16 = 20 CFM | FC-2.18 = 20 CFM |
| FC-1.17 = 20 CFM | FC-2.19 = 20 CFM |
| FC-1.18 = 20 CFM | FC-2.20 = 20 CFM |
| FC-1.19 = 20 CFM | FC-2.21 = 25 CFM |
| FC-1.20 = 20 CFM | FC-2.22 = 100 CFM |
| FC-1.21 = 20 CFM | FC-2.23 = 100 CFM |
| FC-1.22 = 20 CFM | FC-2.24 = 50 CFM |
| FC-1.23 = 25 CFM | FC-2.25 = 20 CFM |
| FC-1.24 = 150 CFM | FC-2.26 = 20 CFM |
| FC-1.25 = 125 CFM | FC-2.27 = 20 CFM |
| FC-1.26 = 20 CFM | FC-2.28 = 20 CFM |
| FC-1.27 = 20 CFM | FC-2.29 = 20 CFM |
| FC-1.28 = 20 CFM | FC-2.30 = 25 CFM |
| FC-1.29 = 20 CFM | |
| FC-1.30 = 20 CFM | |
| FC-1.31 = 20 CFM | |
| FC-1.32 = 20 CFM | |

TOTAL PROVIDED = 3600 CFM

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M.C.)
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M.C. SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
- THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
- THE M.C. SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M.C. EQUIPMENT. THE M.C. SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO HIS EQUIPMENT.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AT ALL AIR HANDLING UNITS.
- INSTALL TURNING VANES IN SUPPLY DUCTS AT ELBOWS. PROVIDE BALANCING AND SPLITTER DAMPERS WHERE SHOWN AND AS REQUIRED FOR SYSTEM BALANCING.
- ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M.C. MOUNT THERMOSTATS 4'-0" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
- THE M.C. SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER HIS CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
- THE M.C. SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- FLEXIBLE DUCT RUNOUTS SHALL BE A MAXIMUM OF 10'-0".
- ALL FLEXIBLE DUCT RUNOUTS SHALL INCLUDE INSULATED DAMPERED BOOTS AT THE POINT OF CONNECTION WITH RECTANGULAR DUCT. PROVIDE ALL FLEXIBLE DUCTWORK WITH FOIL-BACKED, EXTERNALLY WRAPPED INSULATION FOR A MINIMUM OF R-8.
- ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS. EXTERNALLY WRAP ALL DUCT WITH 3" FOIL-BACKED INSULATION FOR A MINIMUM OF R-8.
- ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL INSTALLED IN ACCORDANCE WITH ALL CODES. THE M.C. SHALL COORDINATE GAS PIPE CONNECTION SIZE WITH EQUIPMENT.
- MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES TO INCLUDE FAN DRIVE CHANGES, INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PROVIDE AIRFLOW TO WITHIN +/- 10% OF THE DESIGN VALUES LISTED ON THESE PLANS.
- THE AIR HANDLING UNIT SHALL OPERATE AT ALL TIMES DURING OCCUPIED HOURS.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF DUCT SHOP DRAWINGS FOR APPROVAL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.
- PROVIDE PERMIT LABEL ENGRAVED PLASTIC LAMINATE MECHANICALLY FASTENED TO OUTDOOR UNITS.
- LABEL CEILING GRID WHERE EQUIPMENT IS LOCATED ABOVE LAY-IN CEILING. WITH EQUIPMENT IDENTIFIER. ALSO LABEL ALL TEMPERATURE SENSORS AND THERMOSTATS WITH EQUIPMENT IDENTIFIER.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
[Symbol]	SHEET METAL DUCT
[Symbol]	FLEXIBLE DUCT
[Symbol]	SUPPLY DIFFUSER - LETTER & NUMBER INDICATES TYPE & CFM
[Symbol]	RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
[Symbol]	EXHAUST GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
[Symbol]	EXHAUST FAN
[Symbol]	THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR
[Symbol]	BALANCING DAMPER
[Symbol]	ELBOW WITH TURNING VANES
[Symbol]	HUMIDISTAT - MOUNTED 48" ABOVE FINISHED FLOOR
[Symbol]	TEMPERATURE SENSOR - MOUNTED 48" ABOVE FINISHED FLOOR
[Symbol]	MOTOR OPERATED DAMPER
[Symbol]	CONDENSATE DRAIN
[Symbol]	PIPING TURNED DOWN
[Symbol]	PIPING TURNED UP
[Symbol]	PIPING SIDE CONNECTION
[Symbol]	GAS PIPING
[Symbol]	GATE VALVE
[Symbol]	1-HR RATED WALL

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

PRESCRIPTIVE ENERGY COST BUDGET

Thermal Zone 3A

EXTERIOR DESIGN CONDITIONS
 winter dry bulb: 22°F
 summer dry bulb: 96°F
 relative humidity: 46%

INTERIOR DESIGN CONDITIONS
 winter dry bulb: 70°F
 summer dry bulb: 74°F
 relative humidity: 50%

BUILDING HEATING LOAD: BLOCK LOAD = 416.6 MBH

BUILDING COOLING LOAD: BLOCK LOAD = 931.8 MBH (77.7 TONS)

MECHANICAL SPACING CONDITIONING SYSTEM
 Unitary:
 description of unit: }
 heating efficiency: } SEE SCHEDULES ON SHEET(S) M2.1
 cooling efficiency: }
 heat output of unit: }
 cooling output of unit: }

Boiler: N/A
 total boiler capacity, If oversized state reason.

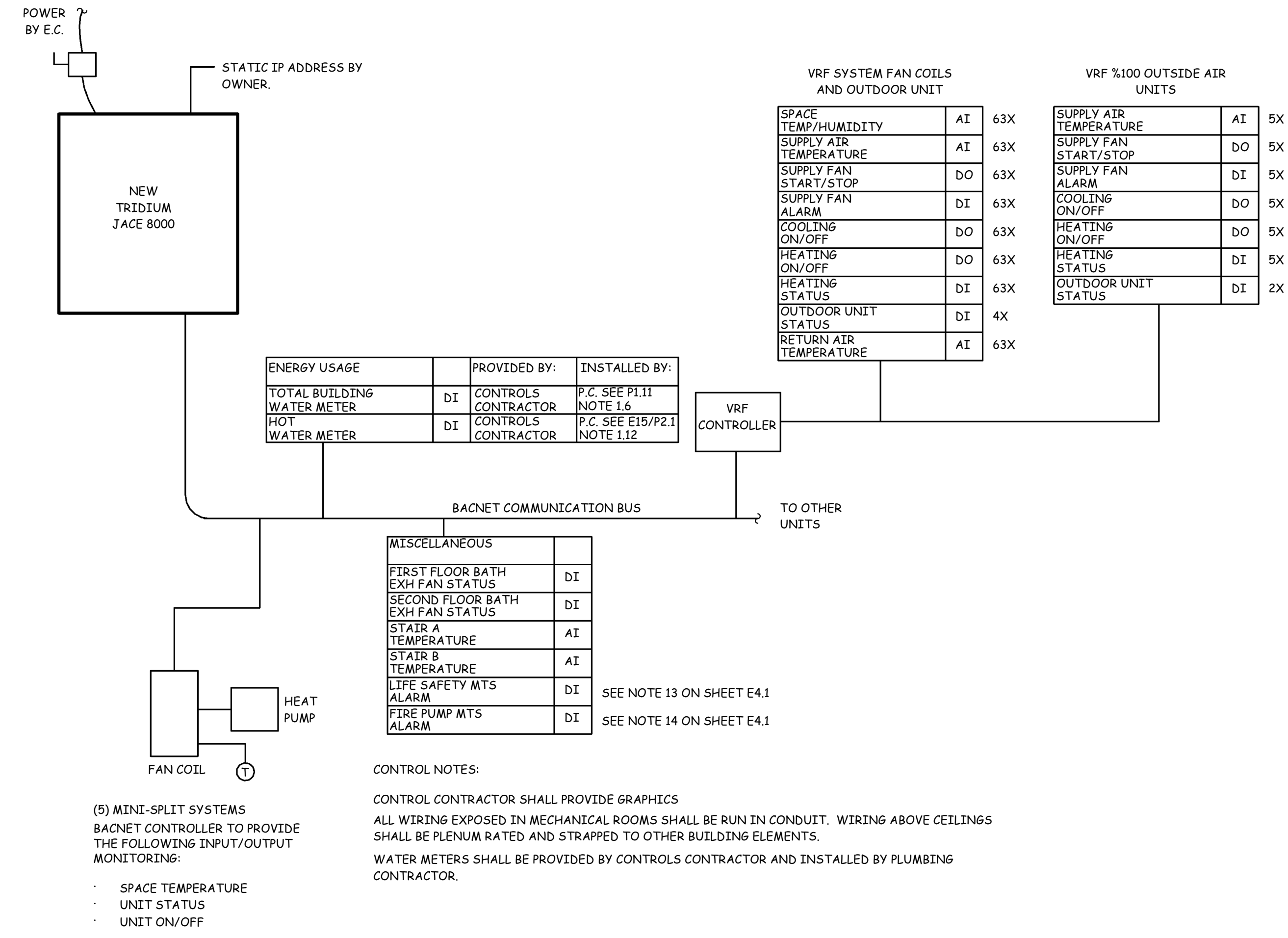
Chiller: N/A
 total chiller capacity, If oversized state reason.

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET(S) M2.1

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)
 motor horsepower: }
 number of phases: } SEE SCHEDULES ON SHEET(S) M2.1
 minimum efficiency: }
 motor type: }
 # of poles: }

DESIGNER STATEMENT
 To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Energy Code.

SIGNED: Patrick McCabe
 NAME: Patrick J. McCabe, PE
 TITLE: Professional Engineer



1 BAS CONTROLS SCHEMATIC
 M2.2 NOT TO SCALE

ATLANTEC ENGINEERS, PA 22194
 3221 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 (919) 571-1111
 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-3336



GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

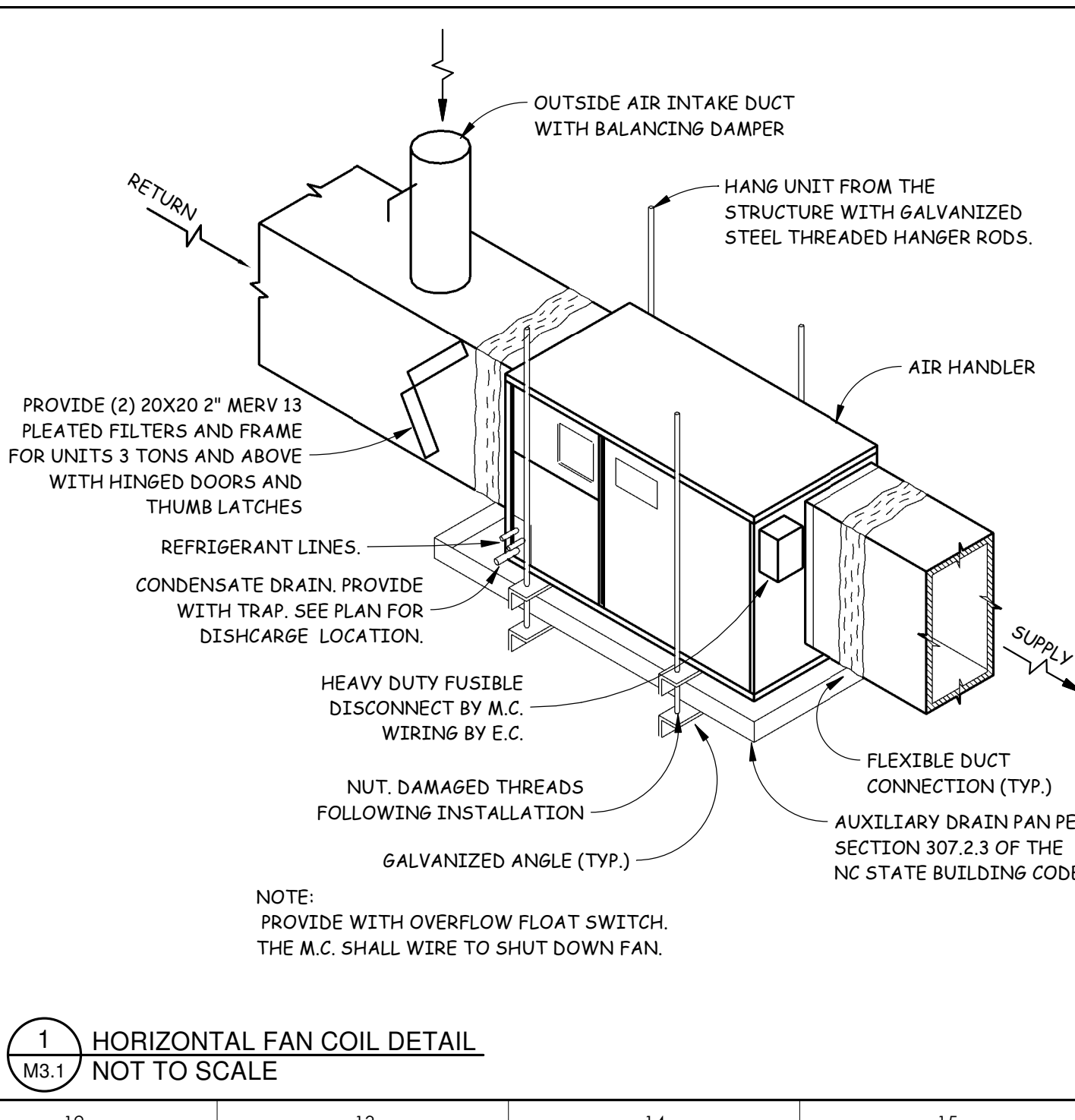
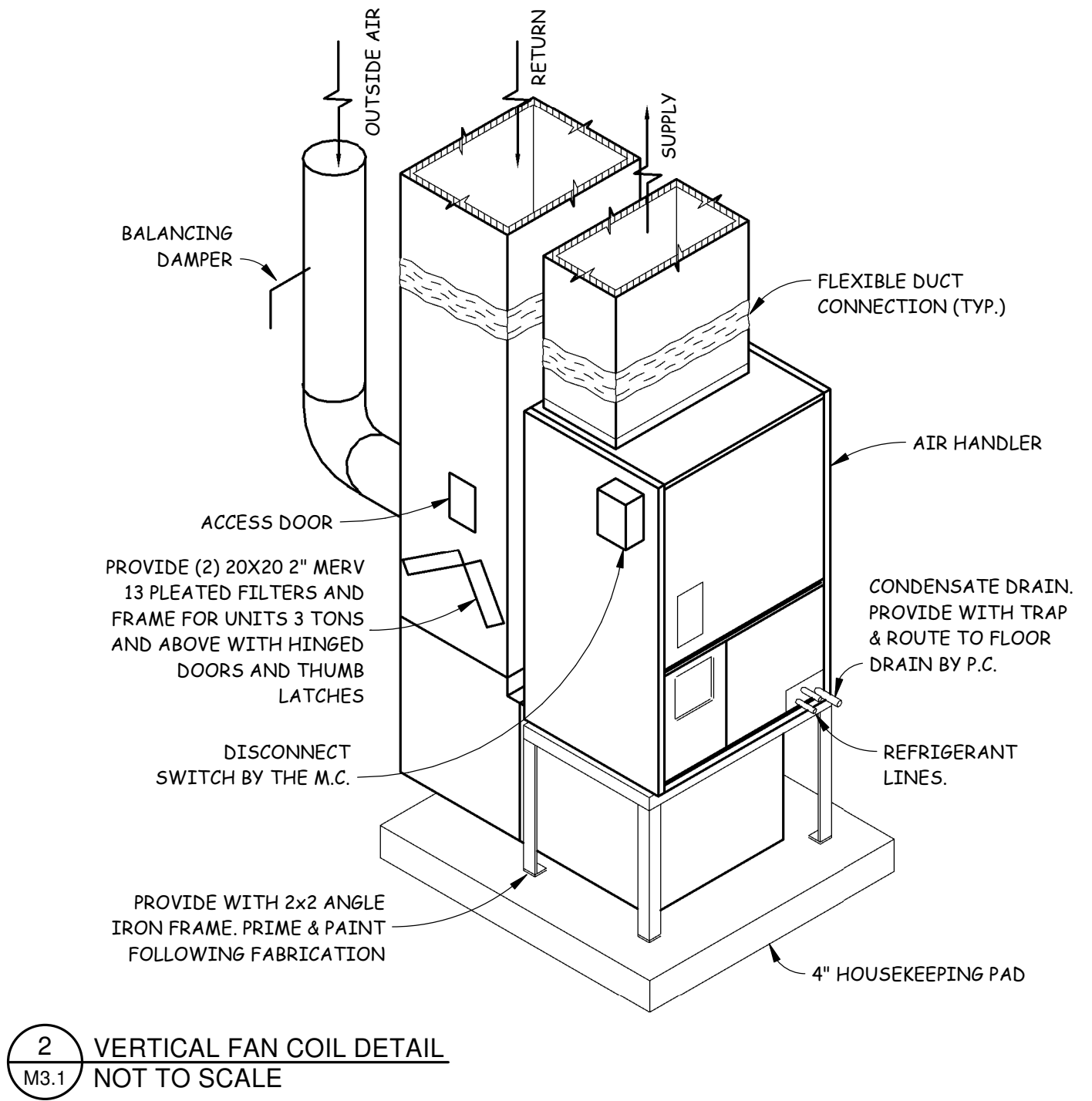
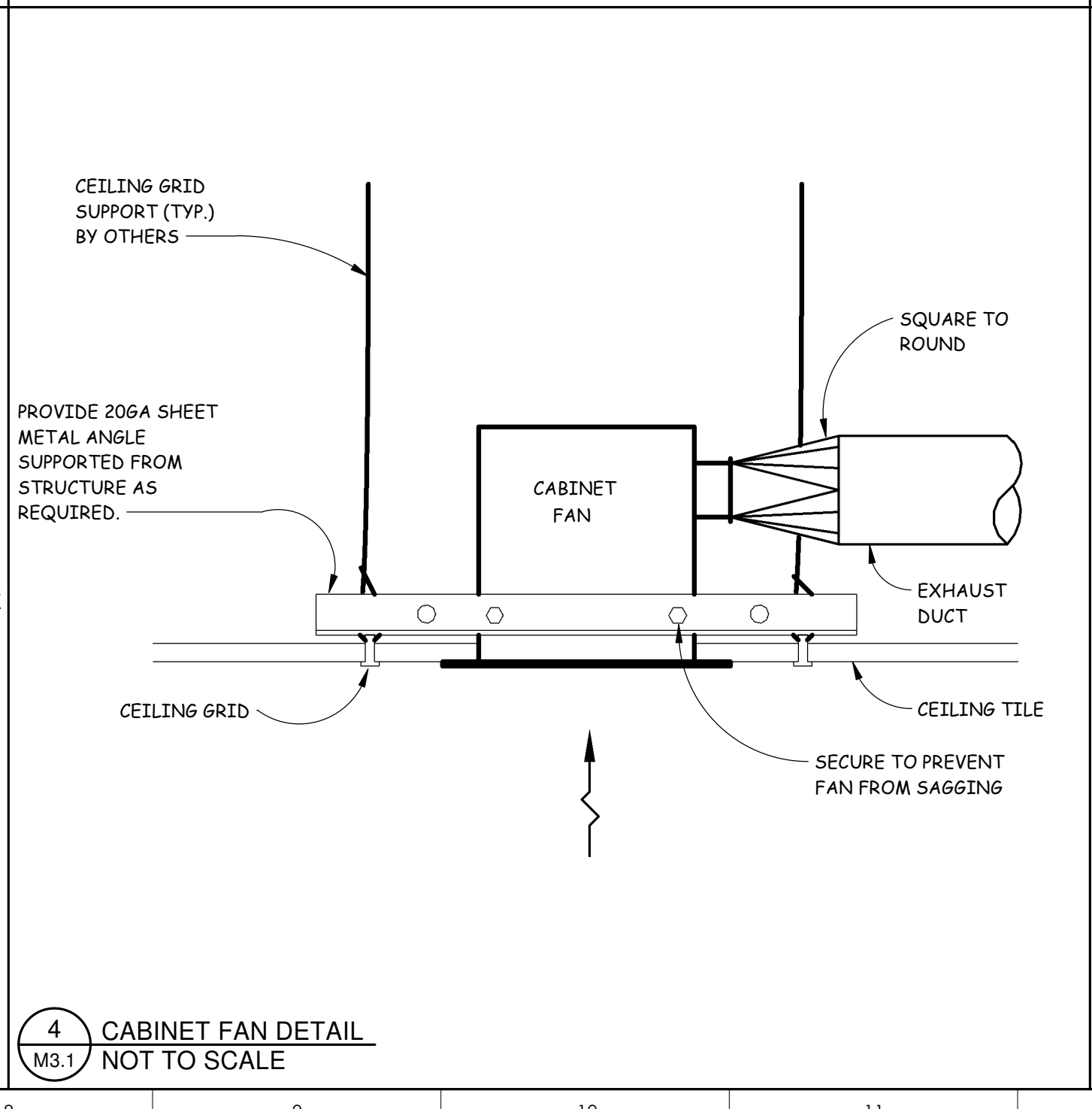
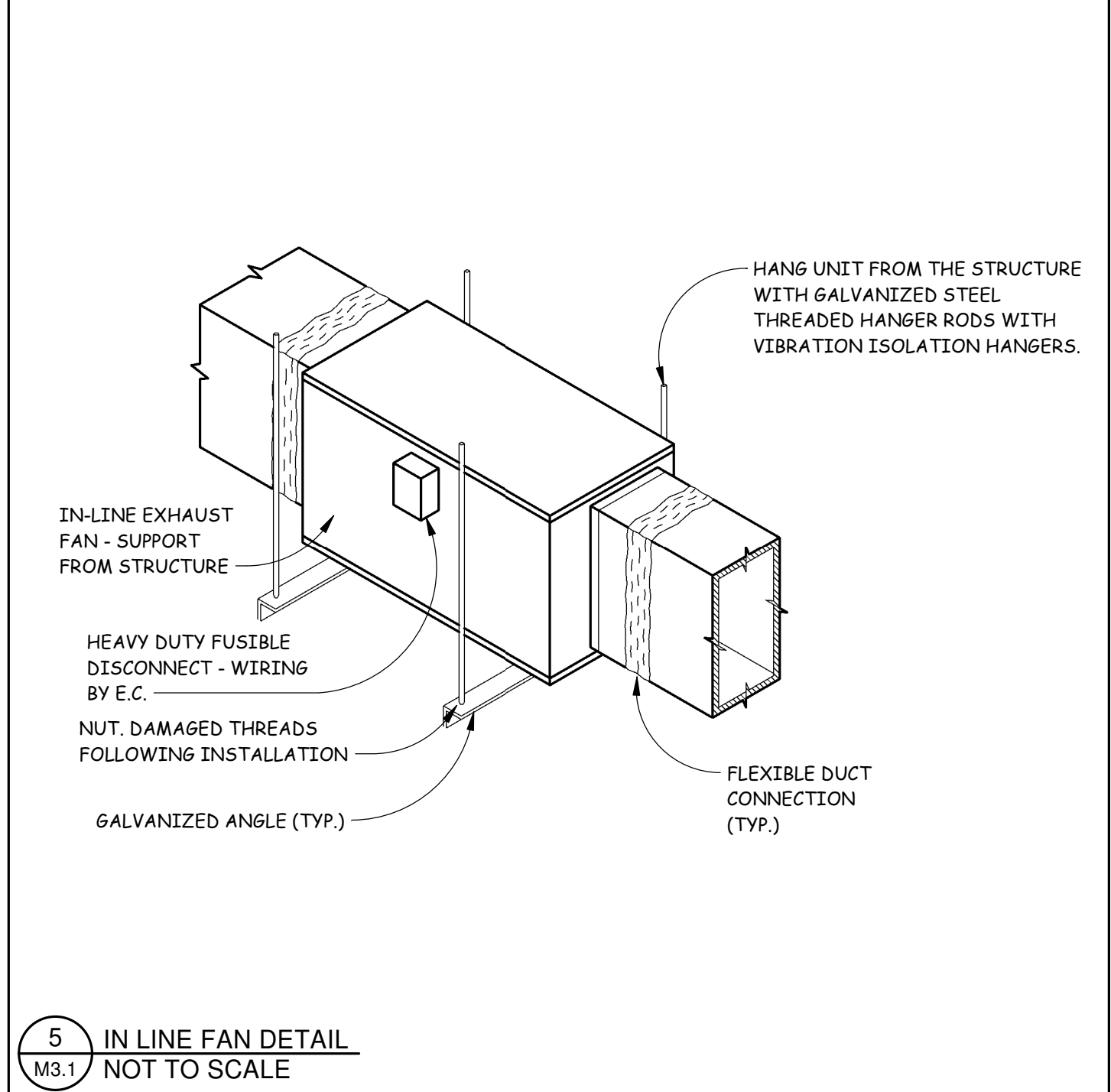
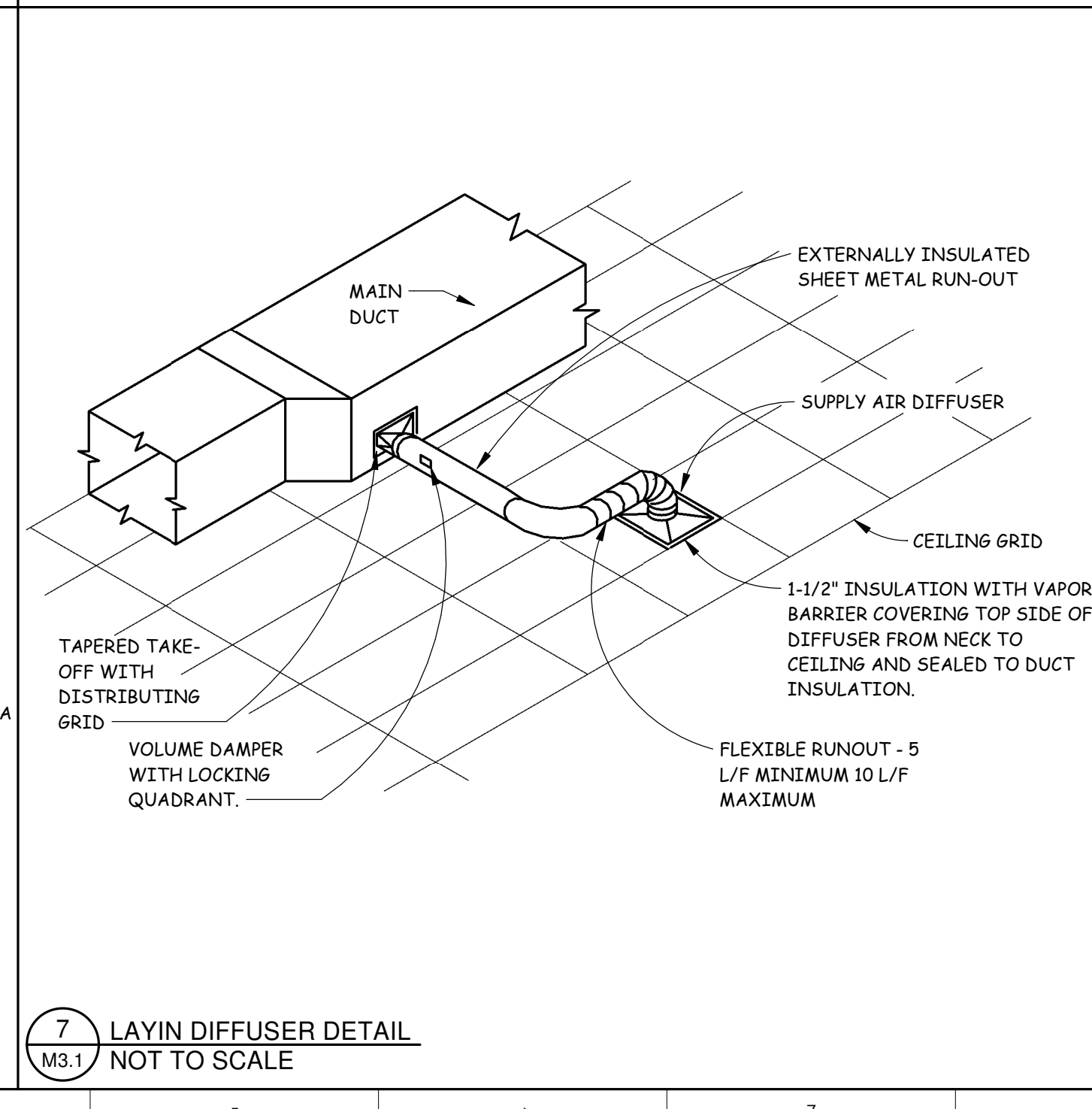
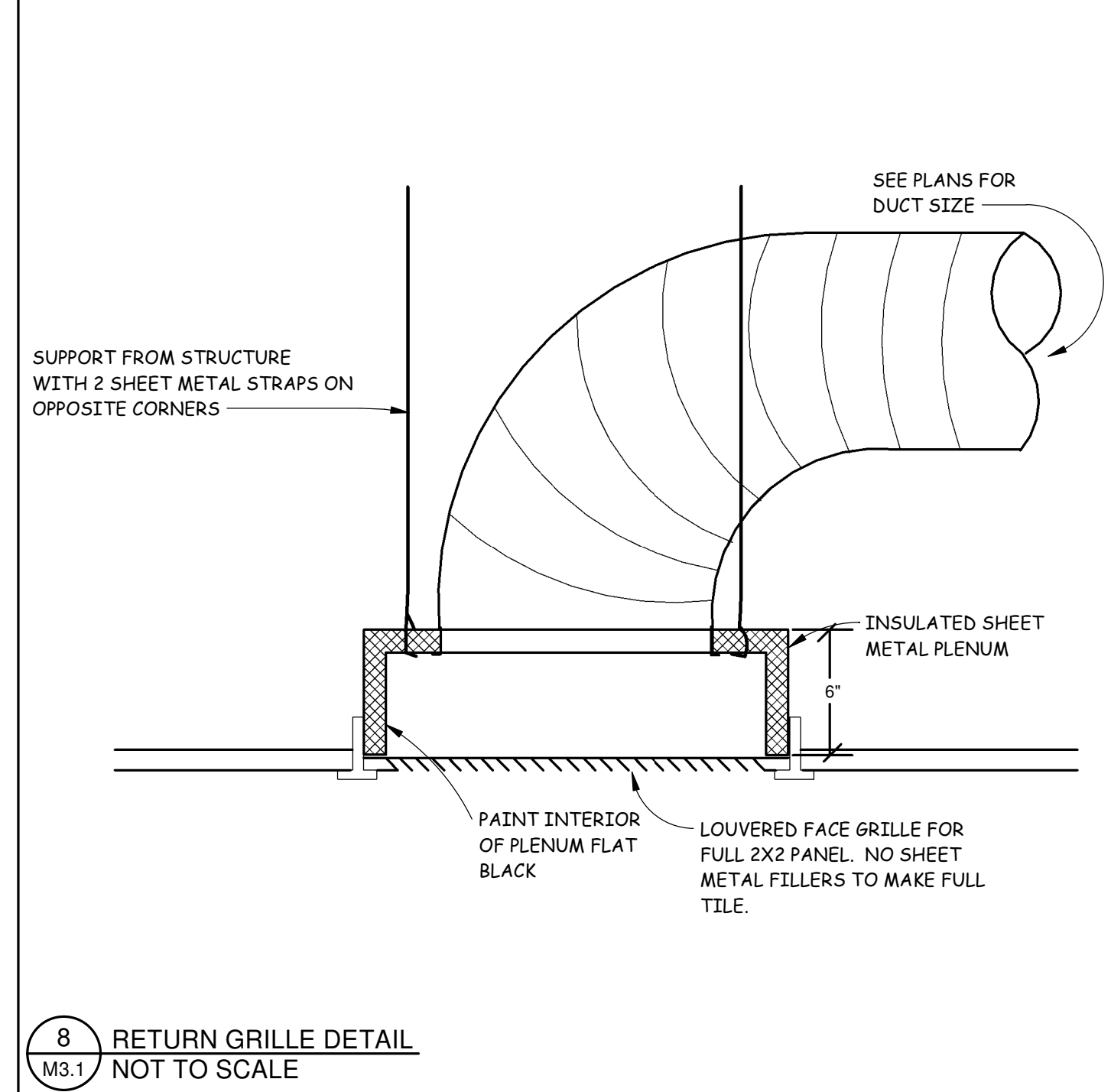
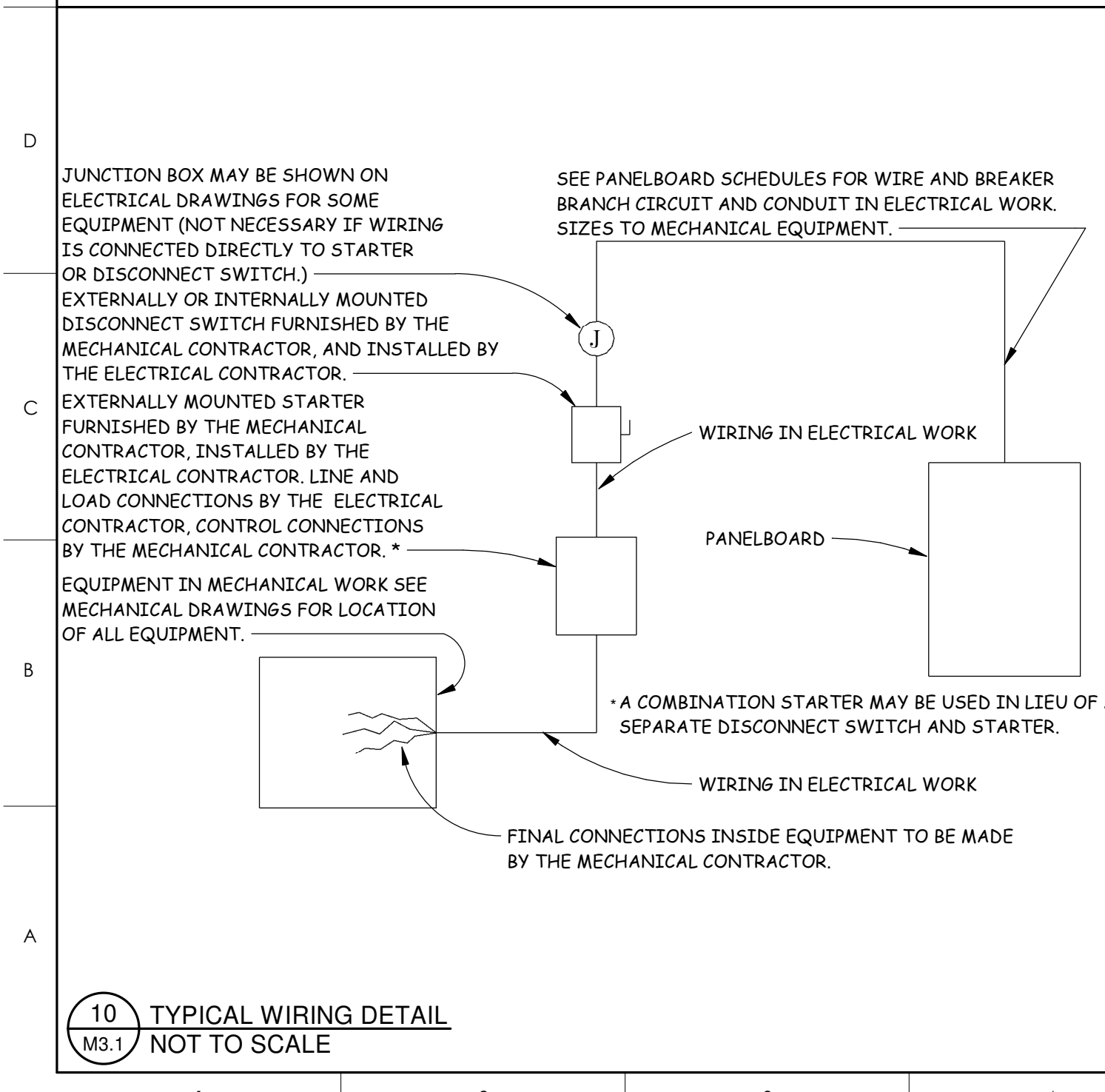
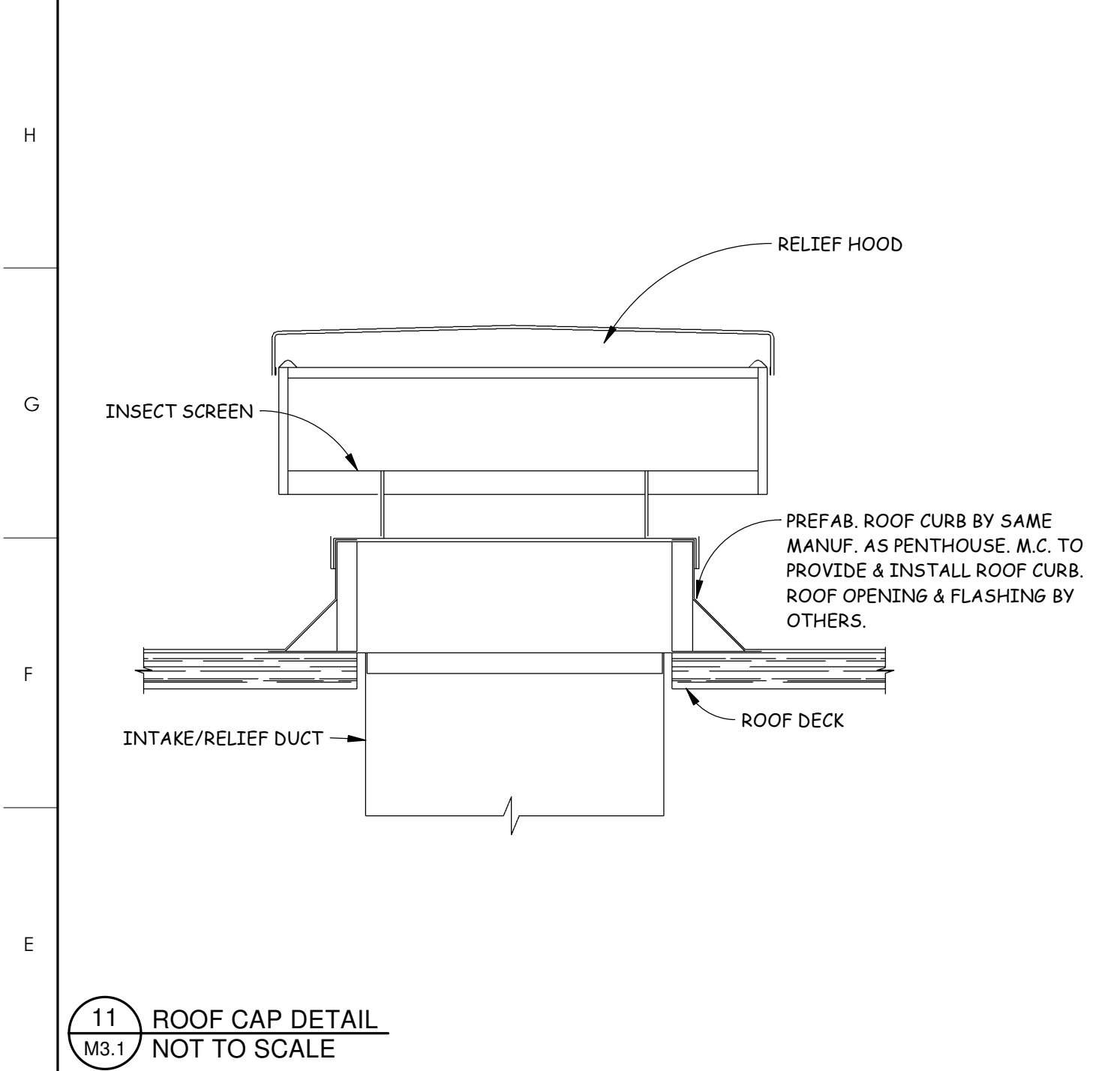
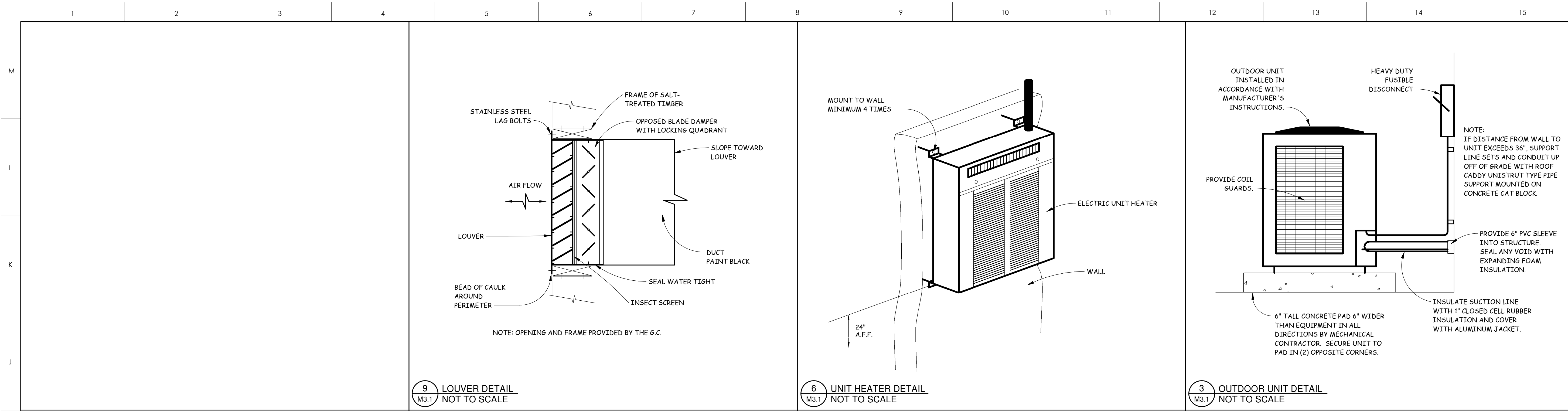
J K F ARCHITECTURE
 425 LYNDALE CT., SUITE F, GREENVILLE, NC 27639 252-355-1068

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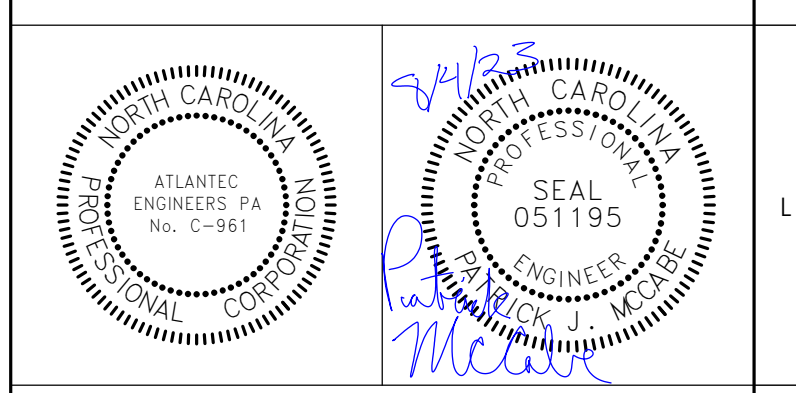
DRAWING TITLE
MECHANICAL NOTES, LEGEND, AND DETAILS

SCALE	12" = 1'-0"
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

M2.2



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(252) 527-3336



GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

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ARCHITECTURE
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STAR COMMUNICATIONS NEW HEADQUARTERS
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DRAWING TITLE
MECHANICAL DETAILS

SCALE	12" = 1'-0"
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

M3.1

CITY MULTI
SYSTEM SCHEMATIC DWG.

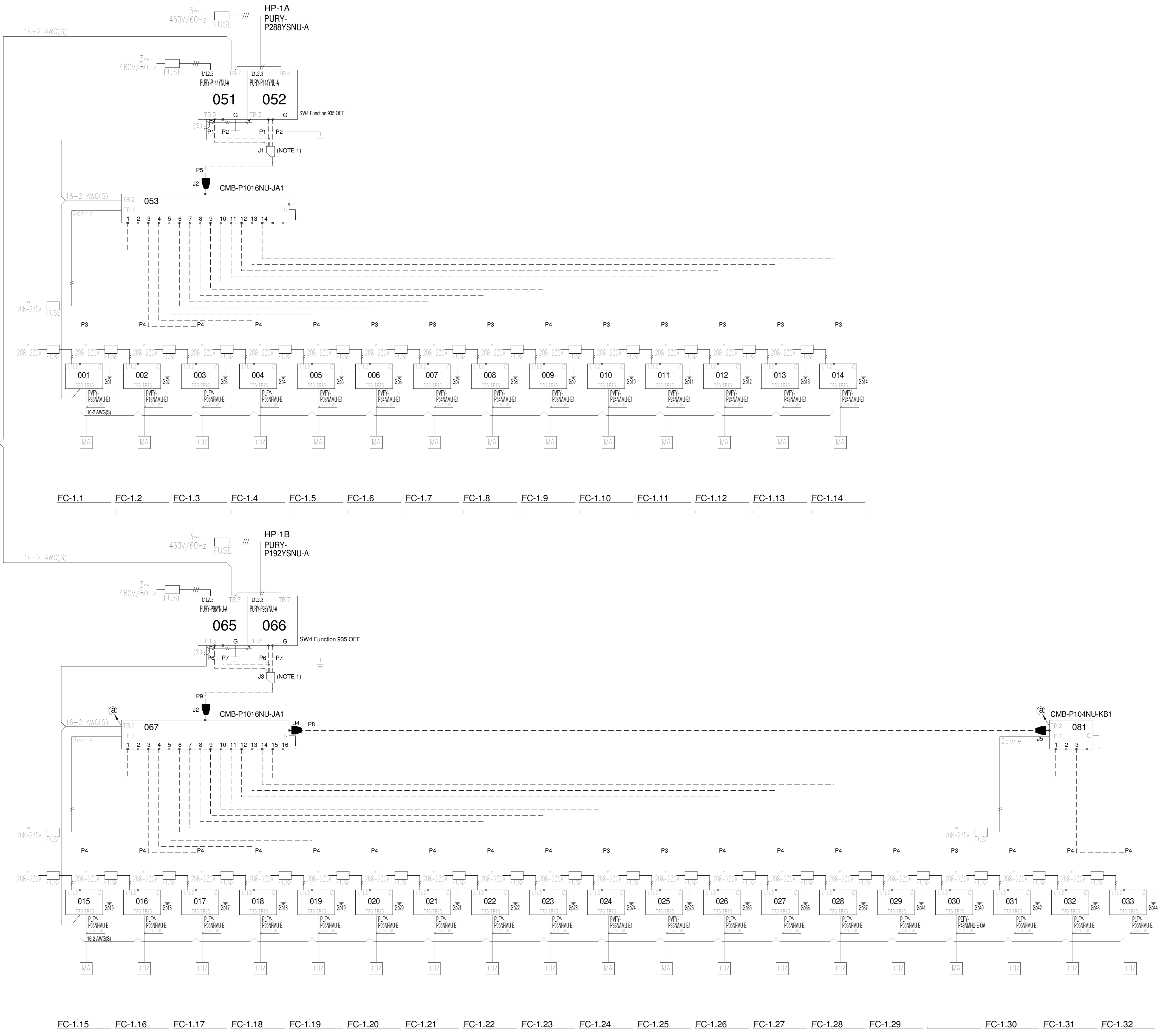
This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record. Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm(1/8 AWG) : 1.25mm(1/8 AWG) or more.
0.75mm(20 AWG) : between 0.5mm(24 AWG) and 0.75mm(20 AWG).

Coded Notes:
NOTE 1: Install hwinning 1/2" within 15 degrees of level and with 20 inches of straight pipe on converging connection - reference installation manual for additional details including but not limited to special trapping requirements when hwinning, and pipe slope requirements

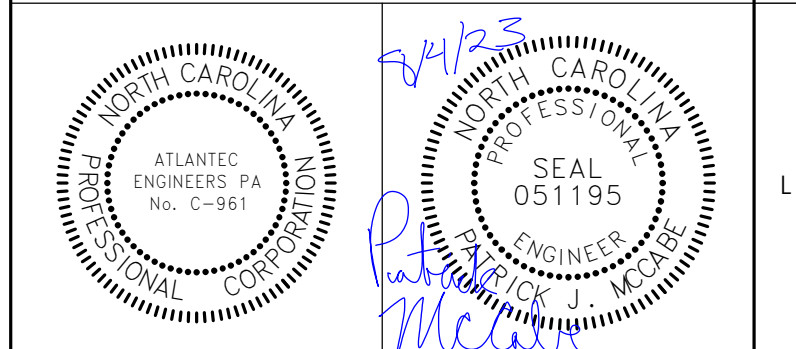
DIAGRAM SYMBOL	LEGEND	CONT.No	PAGE
---	POWER WIRE		
---	CONTROL WIRE		
---	REF. PIPE		

PIPING AND CONTROLS	
SYMBOL BRANCH PIPE MODEL NAME	
J1	CMY-R300NCBK
J2	CMY-R302S-G1
J3	CMY-R200NCBK
J4	CMY-R300S-G1
J5	CMY-R300S-G
SYMBOL LIQUID PIPE GAS PIPE SIZE	
P1	7/8 /
P2	1-1/8 /
P3	3/8 / 5/8
P4	1/4 / 1/2
P5	1-1/8 / 1-3/8
P6	3/4 /
P7	7/8 /
P8	3/8 / 5/8 / 3/4
P9	7/8 / 1-1/8
SYMBOL MODEL NUMBER	
MA	PAR-300MAU
MA	PAR-31MA
MA	PAR-32MAA-J
MA	PAR-30MAA-J
CR	PAC-Y133CRU-J

Diamond System Builder
sw: 4.5.4.7
db: 4.5.2.6
6/6/2023
4:04 PM



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GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

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DRAWING TITLE

VRF INFORMATION	
SCALE	
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

M4.1

CITY MULTI SYSTEM SCHEMATIC DWG.

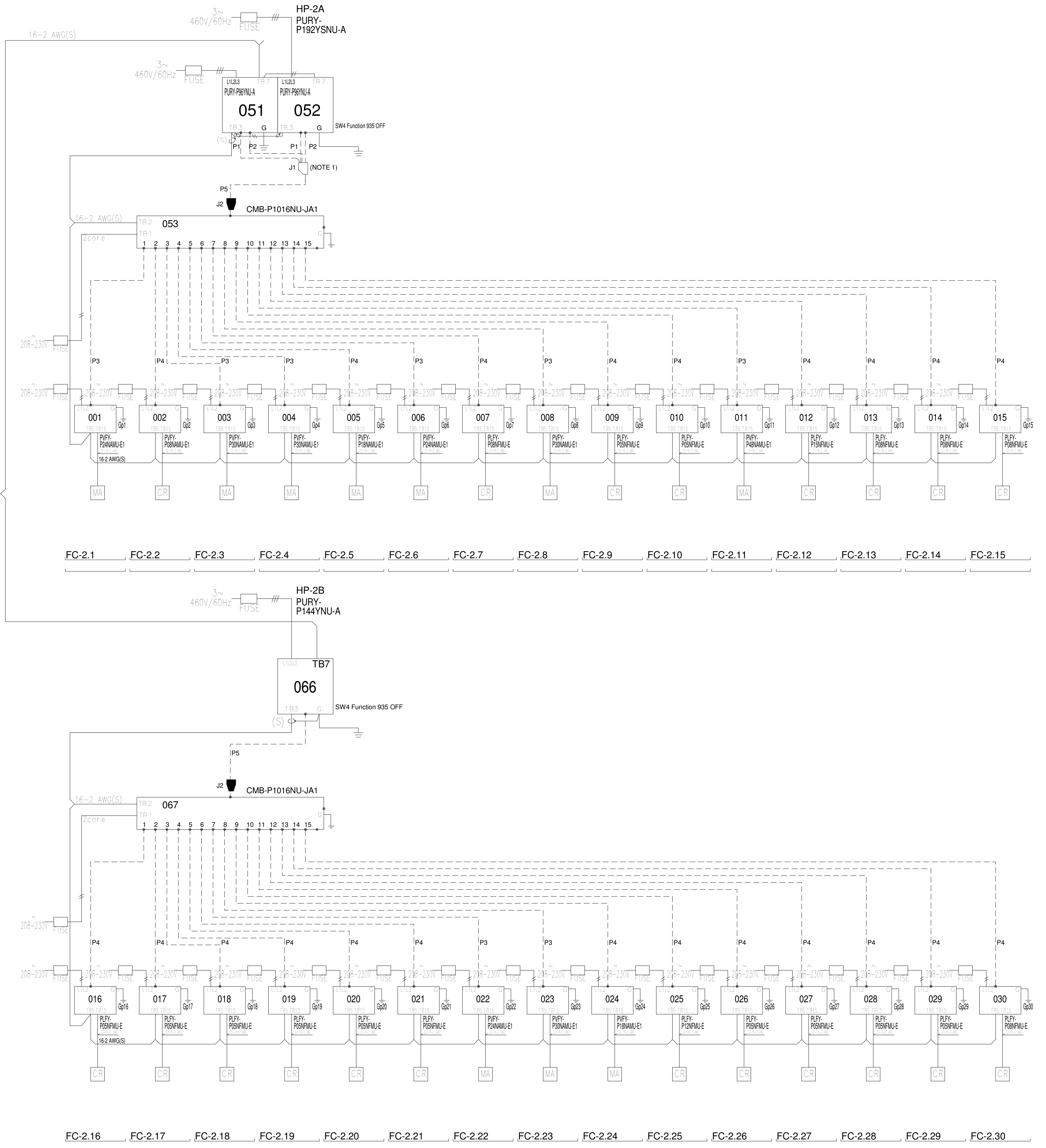
This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record. Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
 1.25mm(1/8 AWG) : 1.25mm(1/8 AWG) or more.
 0.75mm(20 AWG) : between 0.5mm(24 AWG) and 0.75mm(20 AWG).

Coded Notes:
 NOTE 1: Install herring 'Y's within 15 degrees of level and with 20 inches of straight pipe on converging connector - reference installation manual for additional details including but not limited to special trapping requirements when herring, and pipe slope requirements

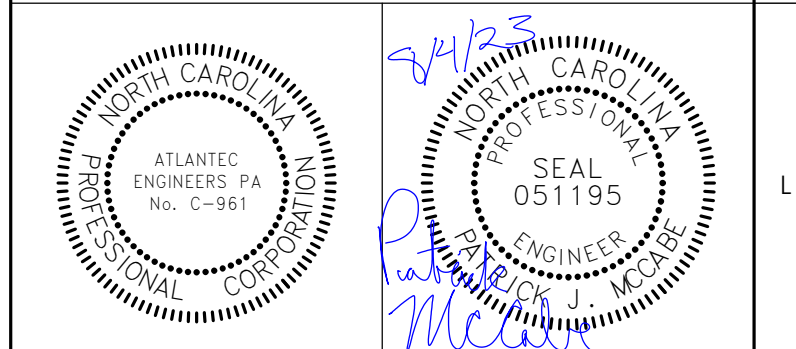
DIAGRAM	SYMBOL	LEGEND	CONT.No	PAGE
---	---	DESCRIPTION		
---	---	POWER WIRE		
---	---	CONTROL WIRE		
---	---	REF. PIPE		

PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-R200NCEK
J2	CMY-R302S-G1
SYMBOL	LIQUID PIPE GAS PIPE SIZE
P1	3/4
P2	7/8
P3	3/8 / 5/8
P4	1/4 / 1/2
P5	7/8 / 1-1/8
SYMBOL	MODEL NUMBER
MA	PAP-40404U
CR	PAC-YT530CALU

Diamond System Builder
 sw: 4.5.4.7
 db: 4.5.2.6
 6/6/2023
 4:16 PM



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GENERAL NOTES

KEY PLAN

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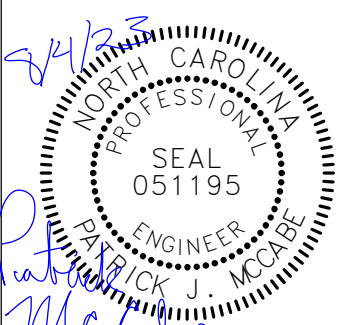
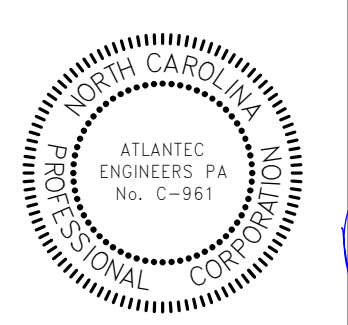
425 LYNNDALE CT., SUITE F, GREENVILLE, NC 27638 252-355-1068

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 CLINTON, NC

VRF INFORMATION

SCALE	
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

M4.2



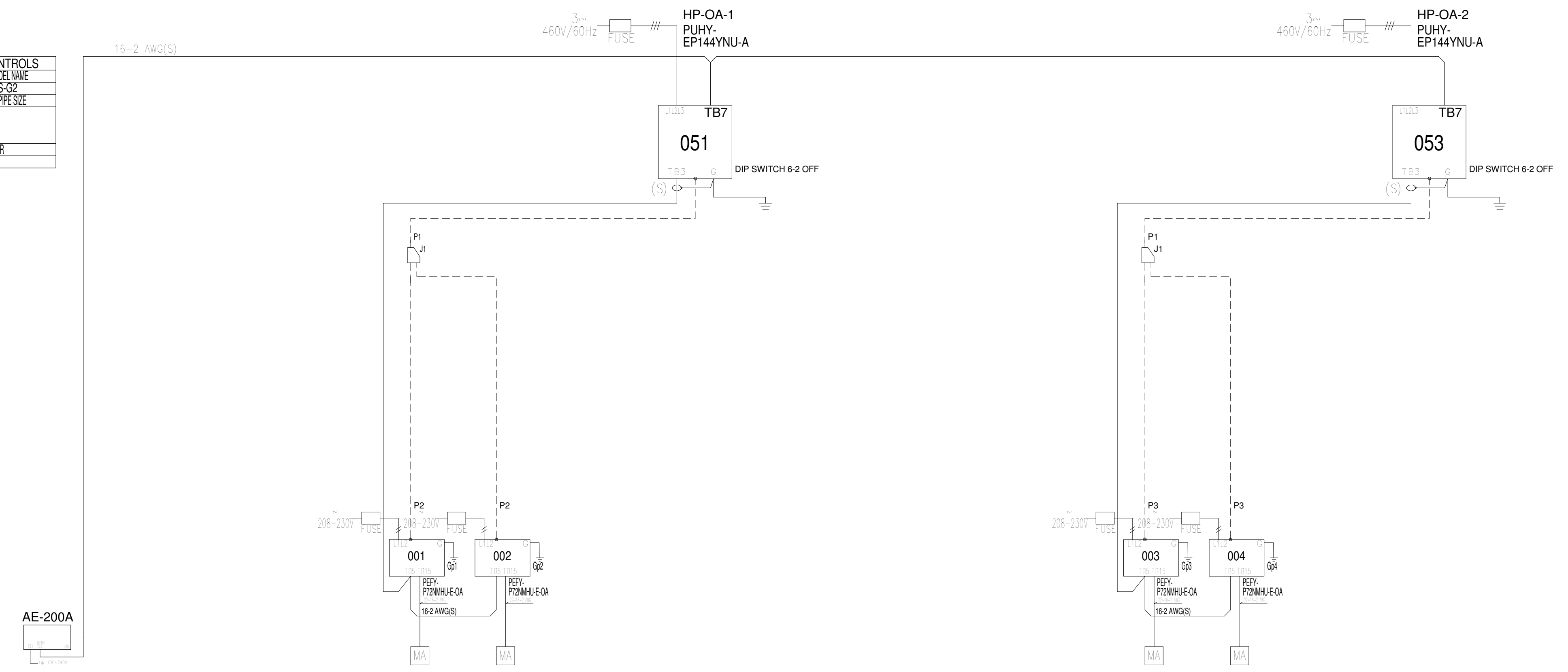
Patrick McCall

CITY MULTI
SYSTEM SCHEMATIC DWG.

This drawing is schematic in nature. Final routing of piping & wiring shall be determined by the installing contractor and/or designer of record. Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm(1/8 AWG) : 1.25mm(1/8 AWG) or more. 0.75mm(20 AWG) : between 0.5mm(24 AWG) and 0.75mm(20 AWG).

DIAGRAM	SYMBOL	LEGEND	CONT.No	PAGE
DISPLAY		DESCRIPTION		
---		POWER WIRE		
---		CONTROL WIRE		
---		REF. PIPE		

PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-Y102LS-G2
SYMBOL	LIQUID PIPE GAS PIPE SIZE
P1	1/2 1/8
P2	3/8 3/4
P3	1/2 3/4
SYMBOL	MODEL NUMBER
MA	PAR-30MACK



Diamond System Builder
sw: 4.5.4.7
db: 4.5.2.6
6/6/2023
4:21 PM

REMARKS
Comments:

GENERAL NOTES

KEY PLAN

NO	REVISION	DATE

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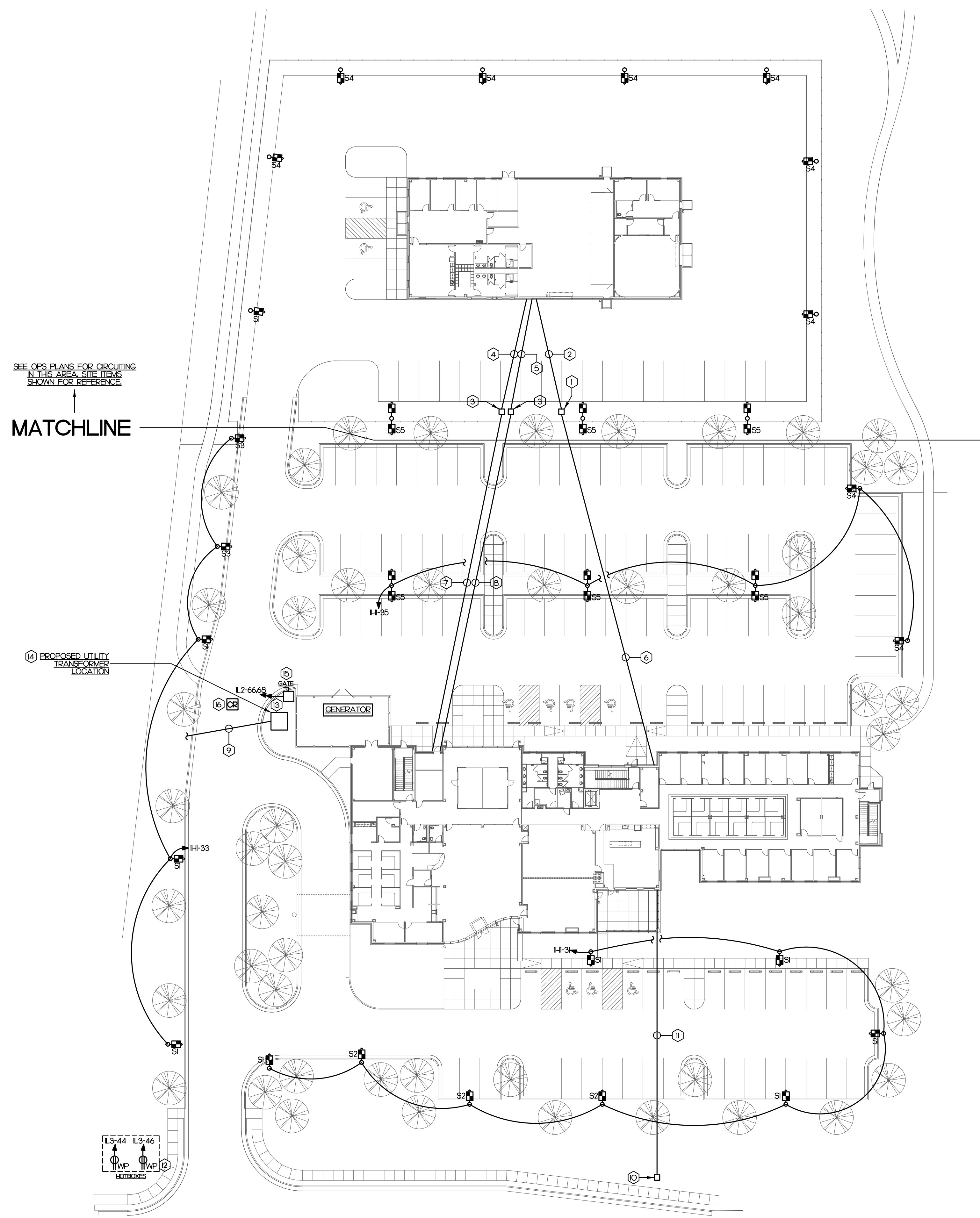
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HEADQUARTERS
CLINTON, NC

DRAWING TITLE
VRF INFORMATION

SCALE	
DRAWN	PJM
CHECKED	PJM
DATE	07-15-2023
PROJECT NO.	2022-17

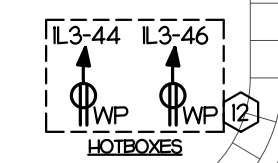
M4.3



SEE OPS PLANS FOR CIRCUITING
IN THIS AREA. SITE ITEMS
SHOWN FOR REFERENCE

MATCHLINE

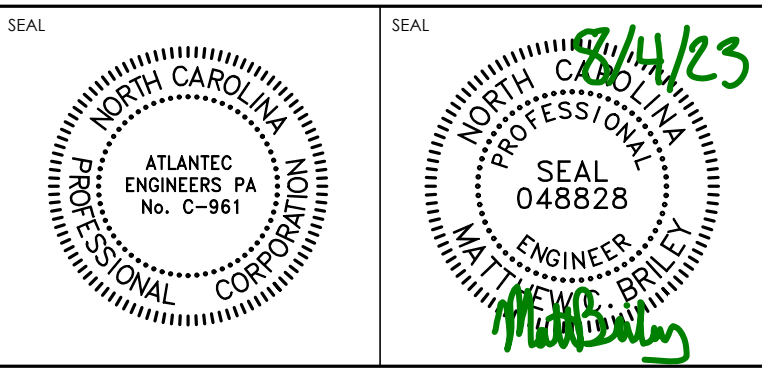
(14) PROPOSED UTILITY
TRANSFORMER
LOCATION



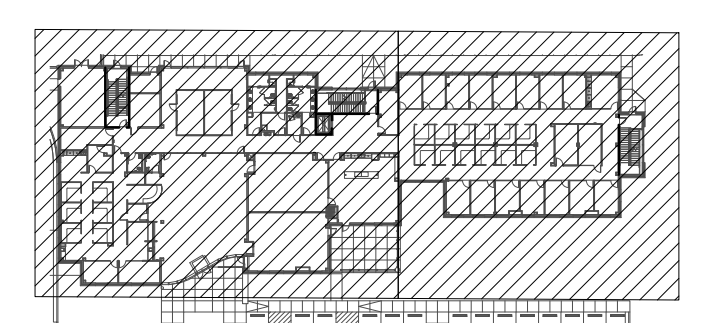
KEY NOTES

- ① OPEN BOTTOM 24" X 36" CONCRETE REINFORCED FIBER FULL BOX WITH TRAFFIC RATED COVER, PROVIDE ADDITIONAL FULL BOXES AS REQUIRED.
- ② PROVIDE 2-4" CONDUITS IN CONCRETE DUCT BANK FROM FIBER FULL BOX TO DATA 103.
- ③ IN-GROUND CONCRETE REINFORCED FULL BOX SIZED PER NEC WITH TRAFFIC RATED COVER FOR OPERATIONS BUILDING POWER, PROVIDE ADDITIONAL FULL BOXES AS REQUIRED.
- ④ PROVIDE 1" CONDUIT FROM FULL BOX TO EMERGENCY BRANCH SERVICE DISCONNECT. SEE POWER RISER FOR DETAILS.
- ⑤ PROVIDE 1-4" CONDUIT FROM FULL BOX TO OPTIONAL STANDBY BRANCH SERVICE DISCONNECT. SEE POWER RISER FOR DETAILS.
- ⑥ PROVIDE 2-4" CONDUITS IN CONCRETE DUCT BANK FROM MAIN DATA 121 TO FIBER FULL BOX.
- ⑦ PROVIDE 1" CONDUIT FROM PANEL 'EDP' IN ELEC III TO FULL BOX. SEE POWER RISER FOR DETAILS.
- ⑧ PROVIDE 1-4" CONDUIT FROM PANEL 'NDP' IN ELEC III TO FULL BOX. SEE POWER RISER FOR DETAILS.
- ⑨ PROVIDE 1-4" EMPTY CONDUIT WITH PULL WIRE FROM PRIMARY OPENING IN UTILITY TRANSFORMER PAD TO OPPOSITE SIDE OF THE DRIVE. FIELD COORDINATE ROUTING AND INSTALLATION WITH OTHER TRADES AND UTILITY PROVIDER.
- ⑩ OPEN BOTTOM 24" X 36" CONCRETE REINFORCED FIBER FULL BOX WITH TRAFFIC RATED COVER, PROVIDE ADDITIONAL FULL BOXES AS REQUIRED. FIELD COORDINATE INSTALLATION WITH OTHER TRADES AND SERVICE PROVIDER.
- ⑪ PROVIDE 2-4" EMPTY CONDUITS WITH PULL WIRE IN CONCRETE DUCT BANK FROM MAIN SERVICE PROVIDER FULL BOX TO FIBER HEAD-IN IN MAIN DATA 121. FIELD COORDINATE INSTALLATION WITH OTHER TRADES AND SERVICE PROVIDER.
- ⑫ FIELD COORDINATE EXACT HOTBOX LOCATION WITH SITE CONTRACTOR PRIOR TO ROUGH-IN.
- ⑬ E.C. TO PROVIDE BOLLARDS PER 2018 NFCC SECTION 312 FOR PROTECTION OF ELECTRICAL EQUIPMENT.
- ⑭ E.C. TO PROVIDE PAD PER UTILITY INSTRUCTION.
- ⑮ FIELD COORDINATE GATE OPERATOR INSTALLATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 1" CONDUIT FOR CONTROL WIRE AS REQUIRED.
- ⑯ CARD READER FOR GATE ACCESS. FIELD COORDINATE INSTALLATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 1" CONDUIT FOR CONTROL WIRE AS REQUIRED.

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KEY PLAN



NO	REVISION	DATE

JKF
ARCHITECTURE

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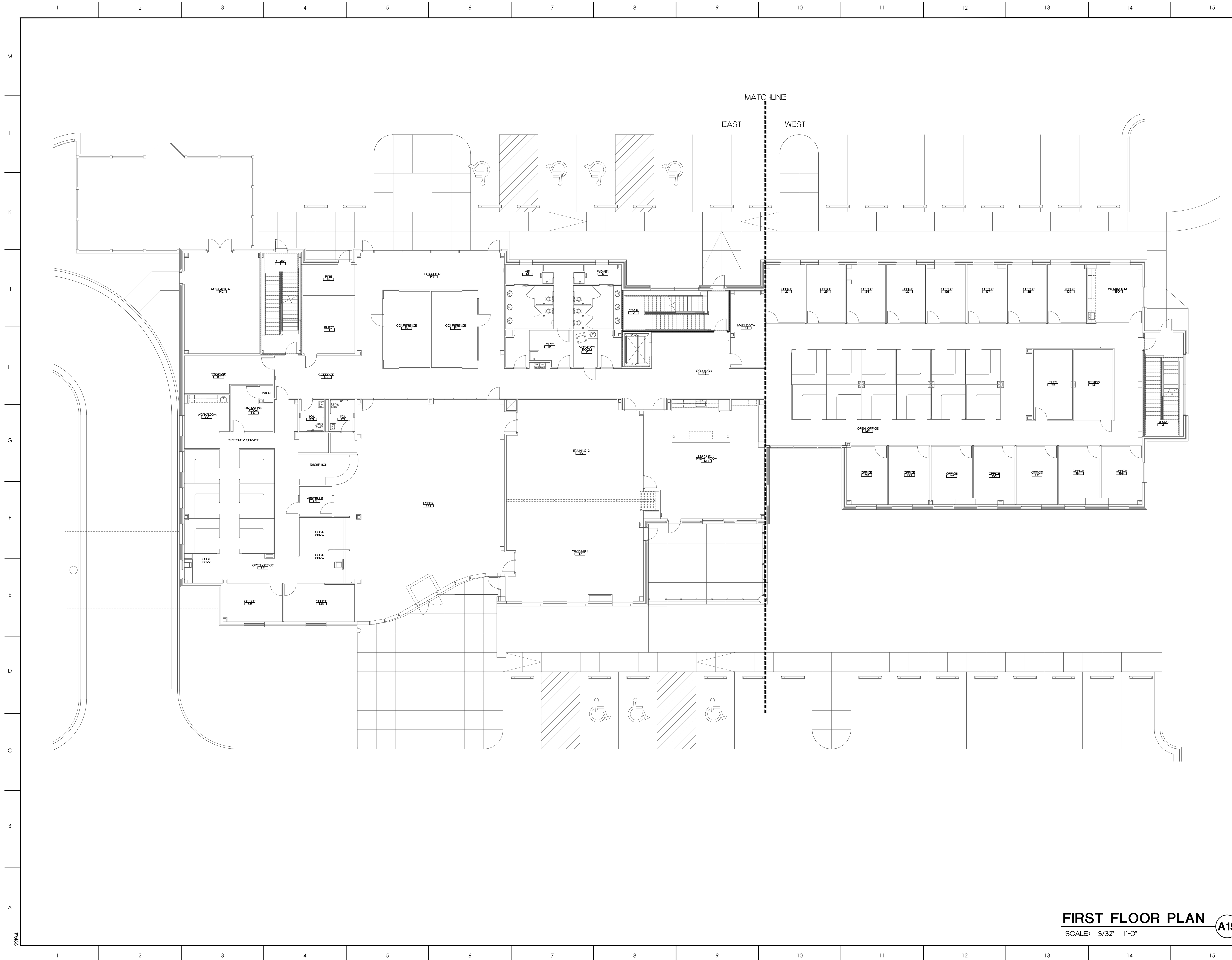
STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

DRAWING TITLE
OVERALL SITE ELECTRICAL PLAN

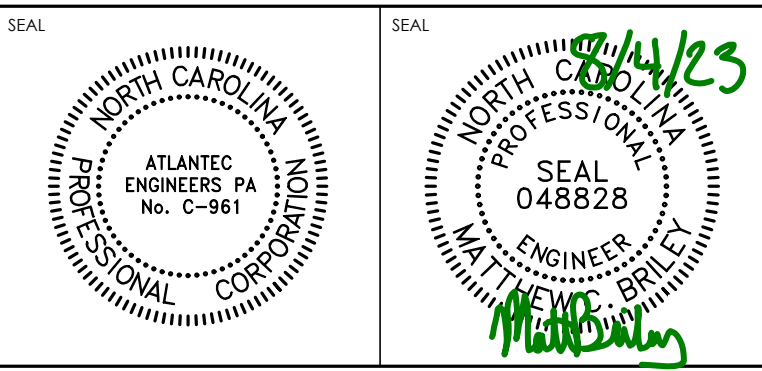
SCALE SEE PLANS	DRAWING NO. E1.0
DRAWN MCB	
CHECKED MCB	
DATE 07-15-2023	
PROJECT NO. 2022-17	

- NOTES:**
1. SITE LIGHTING IS CONTROLLED BY SYNAPSE; SIMPLYSNAP ON-SITE CONTROLLER IN HQ BUILDING. SEE AB/E/11 FOR LOCATION. CONTRACTOR SHALL SUBMIT A SITE SPECIFIC LIGHTING CONTROLS DIAGRAM FOR APPROVAL. SCHEDULE PER OWNER INSTRUCTION.
 2. CONDUIT ROUTING ON THIS PLAN IS SHOWN SCHEMATICALLY; IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD COORDINATE THE INSTALLATION OF HIS SITE CONDUITS WITH OTHER TRADES PRIOR TO ROUGH-IN.

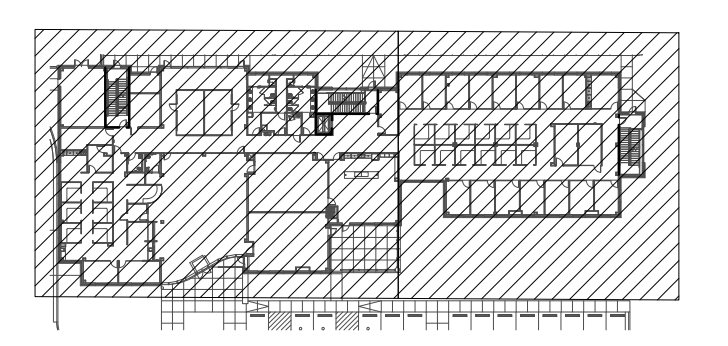
OVERALL SITE ELECTRICAL PLAN (A15)
SCALE: 1" = 30'-0"



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KEY PLAN



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DRAWING TITLE
FIRST FLOOR PLAN

SCALE SEE PLANS	DRAWING NO. E1.1
DRAWN MCB	
CHECKED MCB	
DATE 07-15-2023	
PROJECT NO. 2022-17	

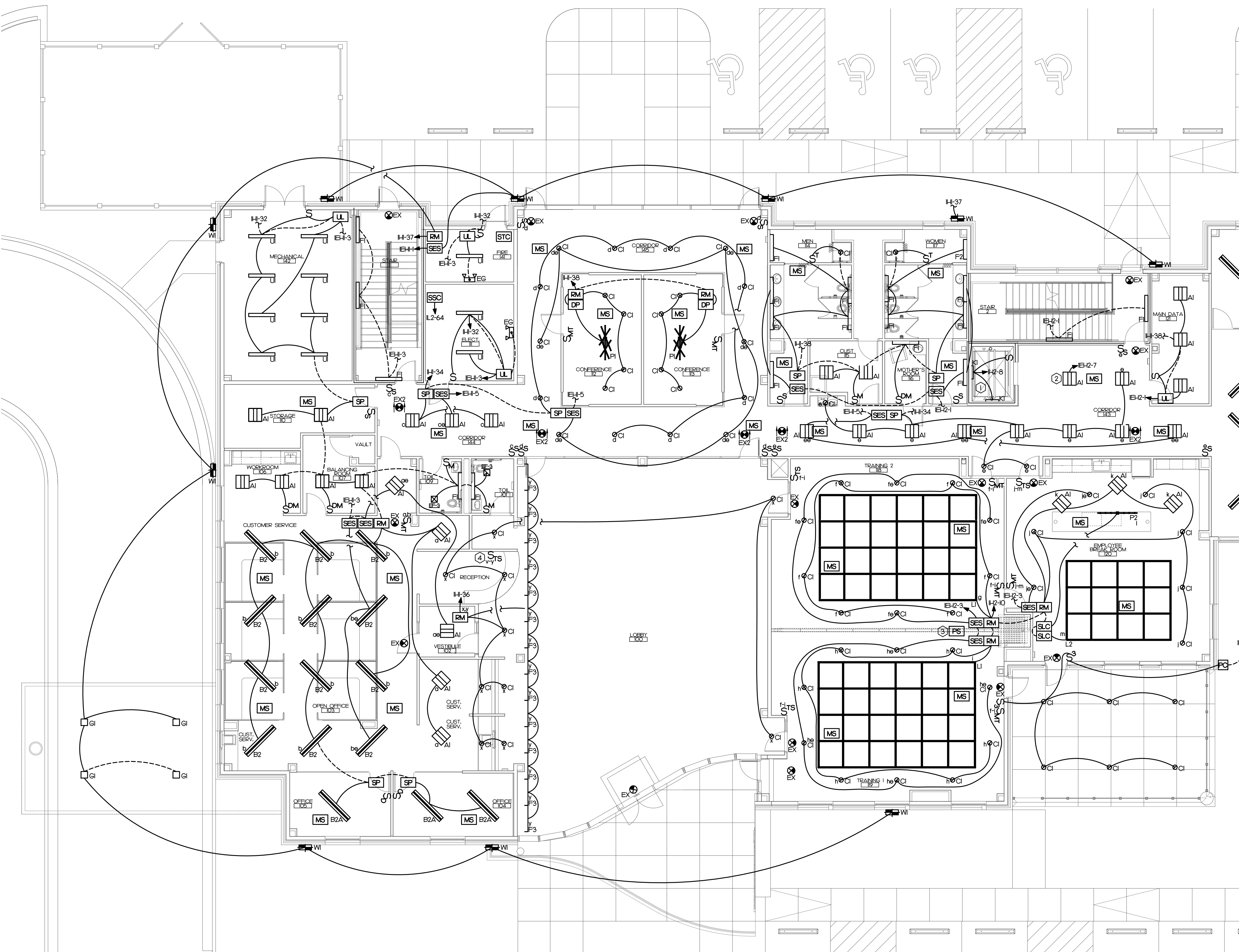
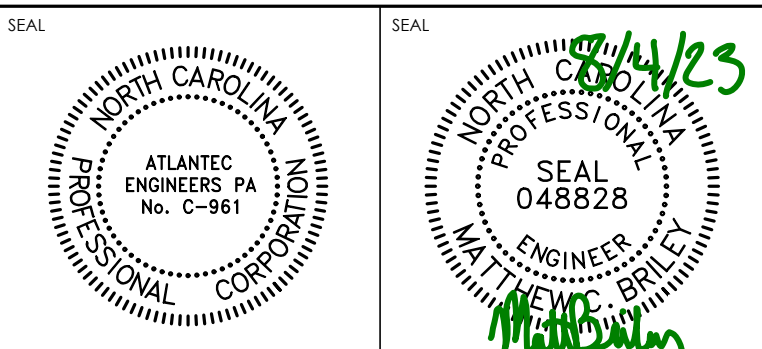
FIRST FLOOR PLAN (A15)
 SCALE: 3/32" = 1'-0"

KEY NOTES

- 1 FIELD COORDINATE THE INSTALLATION OF THE ELEVATOR PIT LIGHTS WITH THE ELEVATOR MANUFACTURER PRIOR TO ROUGH-IN.
- 2 FIXTURE TO BE CIRCUITED AS A NIGHT LIGHT ON A DEDICATED CIRCUIT FOR ELEVATOR MACHINE SPACE. FIELD COORDINATE FIXTURE INSTALLATION TO PROVIDE 20FC AT ELEVATOR LANDING.
- 3 WHEN THE PARTITION IN THE TRAINING ROOMS IS OPEN, LIGHTING ZONES "i" AND "h" AND LIGHTING ZONES "g" AND "f" SHALL BE CONTROLLED TOGETHER. WHEN THE PARTITION IS CLOSED, ALL LIGHTING ZONES IN THE TRAINING ROOMS SHALL BE CONTROLLED SEPARATELY.
- 4 SEE IEL21 KEY NOTE #2 FOR FIXTURES TAGGED WITH CONTROL ZONES "w" AND "v" AT HIGH LOBBY CEILING CONTROLLED BY TOUCHSCREEN.



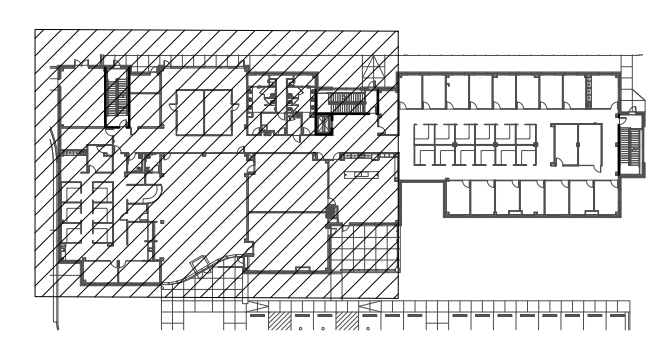
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- NOTES:**
1. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE, HEIGHT, AND LAYOUT. DO NOT DIMENSION BASED ON THESE PLANS.
 2. CONNECT EXIT LIGHTS TO THE LOCAL EMERGENCY LIGHTING CIRCUIT IN THE AREA UNSWITCHED.
 3. PROVIDE LOW VOLTAGE CABLE AND CONTROL WIRING AS REQUIRED FOR LIGHTING CONTROLS. SEE E52 FOR LIGHTING CONTROLS INTERCONNECTIVITY DETAILS.
 4. INSTALL LIGHTING CONTROLS EQUIPMENT IN ACCESSIBLE CEILING SPACE AS REQUIRED. FIELD COORDINATE EXACT LOCATION.
 5. CONTRACTOR TO SUBMIT SITE SPECIFIC LIGHTING CONTROLS DIAGRAM FOR APPROVAL.
 6. ALL FIXTURES CONTROLLED FROM TOUCHSCREEN CONTROLS SHALL HAVE DIMMING EXCEPT FOR CORRIDORS. PROVIDE LOW VOLTAGE CONTROL WIRE AS REQUIRED.
 7. LOWER CASE LETTERS INDICATE ZONES OF CONTROL. SWITCHES TO CONTROL CORRESPONDING LIGHT FIXTURES. CONTROL LETTERING BEGINS AT "a" ON EACH SHEET UNLESS OTHERWISE NOTED.
 8. FIXTURES WITH TWO CHARACTER LOWER CASE CONTROL LETTERING ENDING IN "e", CONNECT FIXTURES TO EMERGENCY LIGHTING CIRCUIT AS SHOWN.

FIRST FLOOR LIGHTING PLAN - WEST (A15)
 SCALE: 1/8" = 1'-0"

KEY PLAN



NO	REVISION	DATE

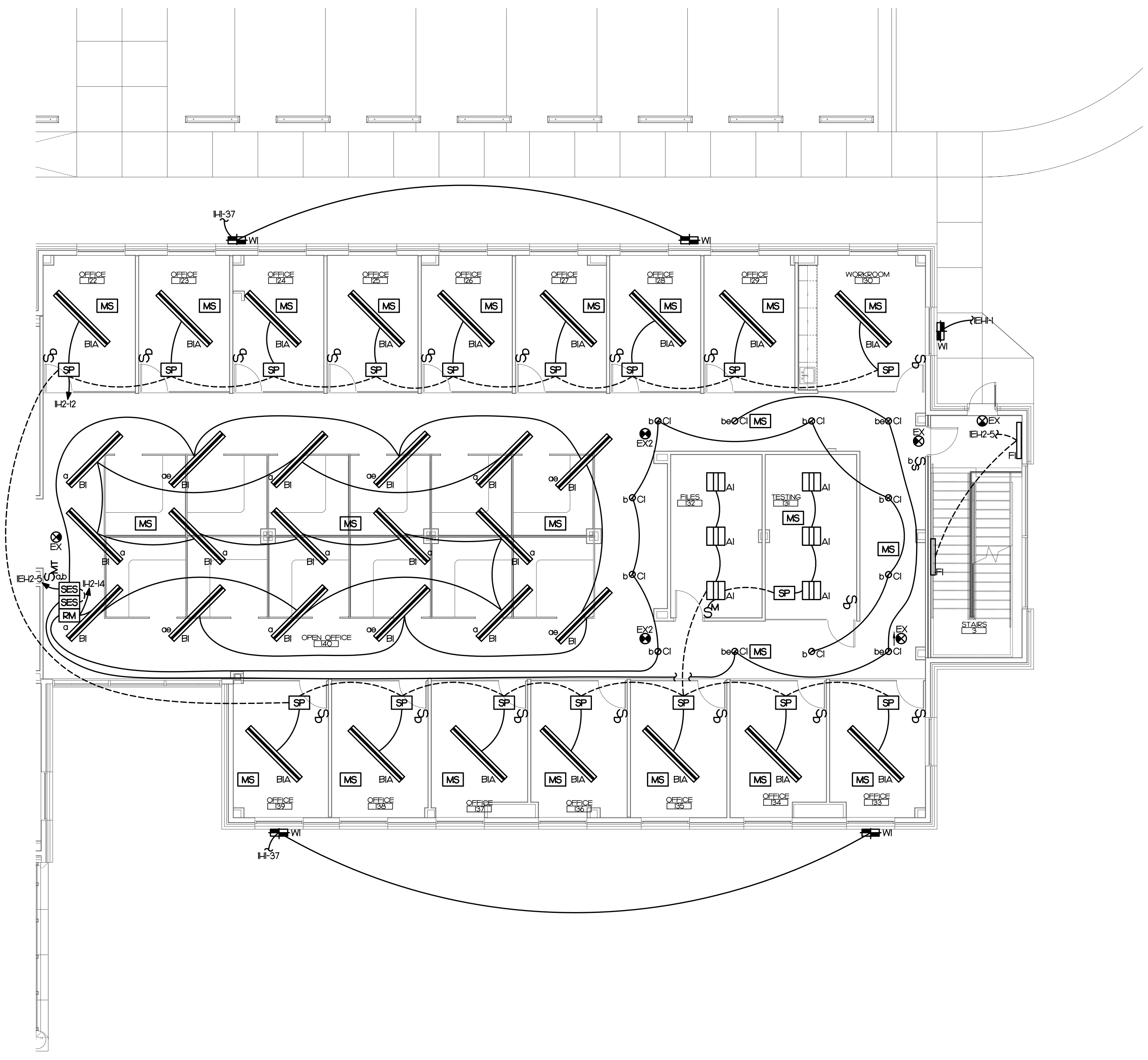
J K F
 ARCHITECTURE

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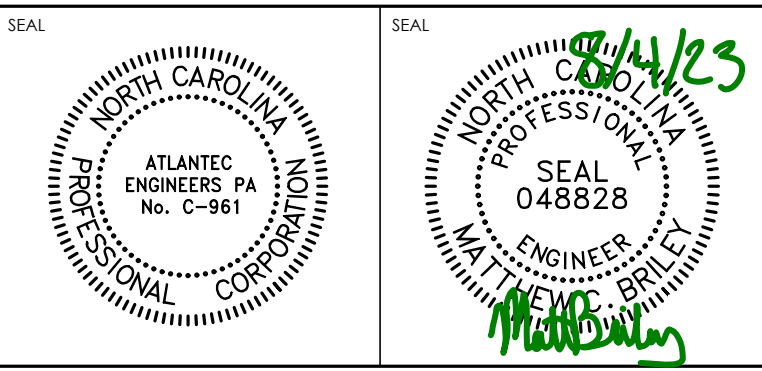
DRAWING TITLE
OFFICE BUILDING FIRST FLOOR LIGHTING PLAN - WEST

SCALE	SEE PLANS	DRAWING NO.
DRAWN	MCB	E1.11
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

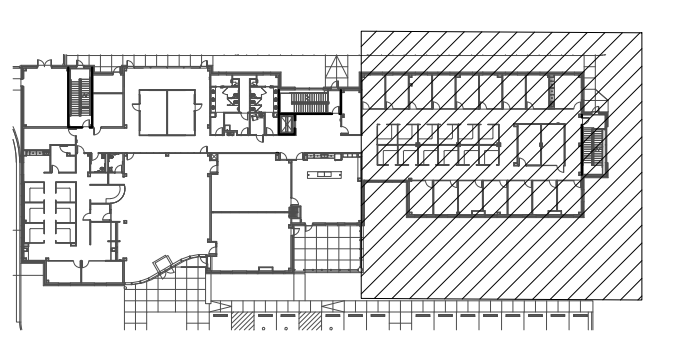


- NOTES:**
1. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE, HEIGHT, AND LAYOUT. DO NOT DIMENSION BASED ON THESE PLANS.
 2. CONNECT EXIT LIGHTS TO THE LOCAL EMERGENCY LIGHTING CIRCUIT IN THE AREA UNSWITCHED.
 3. PROVIDE LOW VOLTAGE CABLE AND CONTROL WIRING AS REQUIRED FOR LIGHTING CONTROLS. SEE E5.2 FOR LIGHTING CONTROLS INTERCONNECTIVITY DETAILS.
 4. INSTALL LIGHTING CONTROLS EQUIPMENT IN ACCESSIBLE CEILING SPACE AS REQUIRED. FIELD COORDINATE EXACT LOCATION.
 5. CONTRACTOR TO SUBMIT SITE SPECIFIC LIGHTING CONTROLS DIAGRAM FOR APPROVAL.
 6. ALL FIXTURES CONTROLLED FROM TOUCH-SCREEN CONTROLS SHALL HAVE DIMMING EXCEPT FOR CORRIDORS. PROVIDE LOW VOLTAGE CONTROL WIRE AS REQUIRED.
 7. LOWER CASE LETTERS INDICATE ZONES OF CONTROL. SWITCHES TO CONTROL CORRESPONDING LIGHT FIXTURES. CONTROL LETTERING BEGINS AT "a" ON EACH SHEET UNLESS OTHERWISE NOTED.
 8. FIXTURES WITH TWO CHARACTER LOWER CASE CONTROL LETTERING ENDING IN "e", CONNECT FIXTURES TO EMERGENCY LIGHTING CIRCUIT AS SHOWN.

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KEY PLAN



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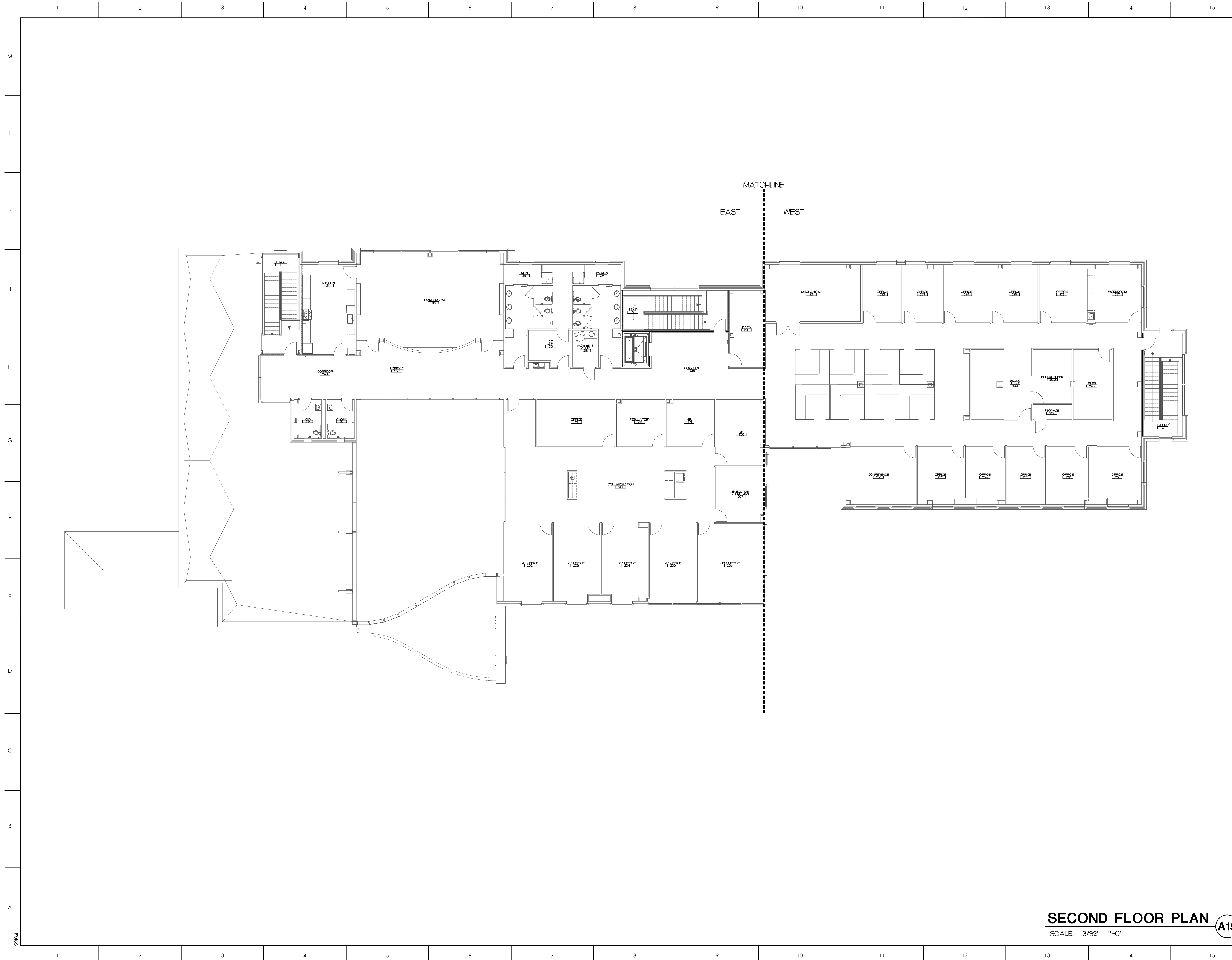
DRAWING TITLE
OFFICE BUILDING
FIRST FLOOR
LIGHTING PLAN - EAST

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DRAWN	MCB	E1.12
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

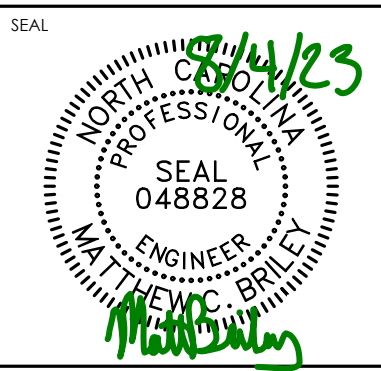
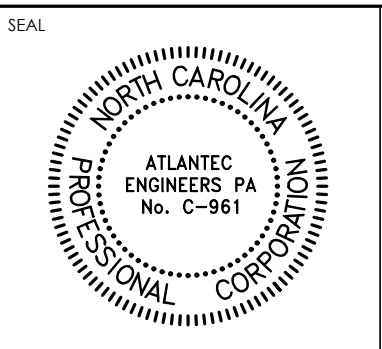
FIRST FLOOR LIGHTING PLAN - EAST

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

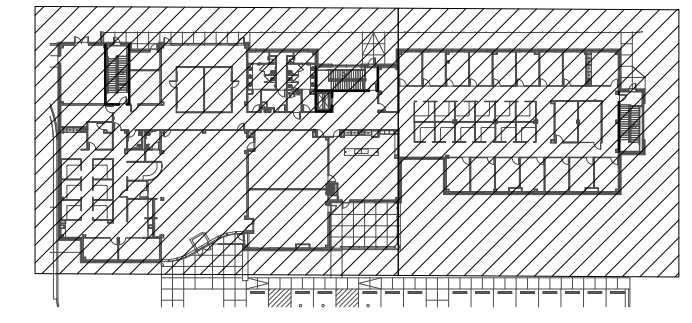
A15



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KEY PLAN



NO	REVISION	DATE

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 ARCHITECTURE

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STAR COMMUNICATIONS NEW
 HEADQUARTERS
 CLINTON, NC

DRAWING TITLE
SECOND FLOOR PLAN

SCALE SEE PLANS	DRAWING NO. E1.2
DRAWN MCB	
CHECKED MCB	
DATE 07-15-2023	
PROJECT NO. 2022-17	

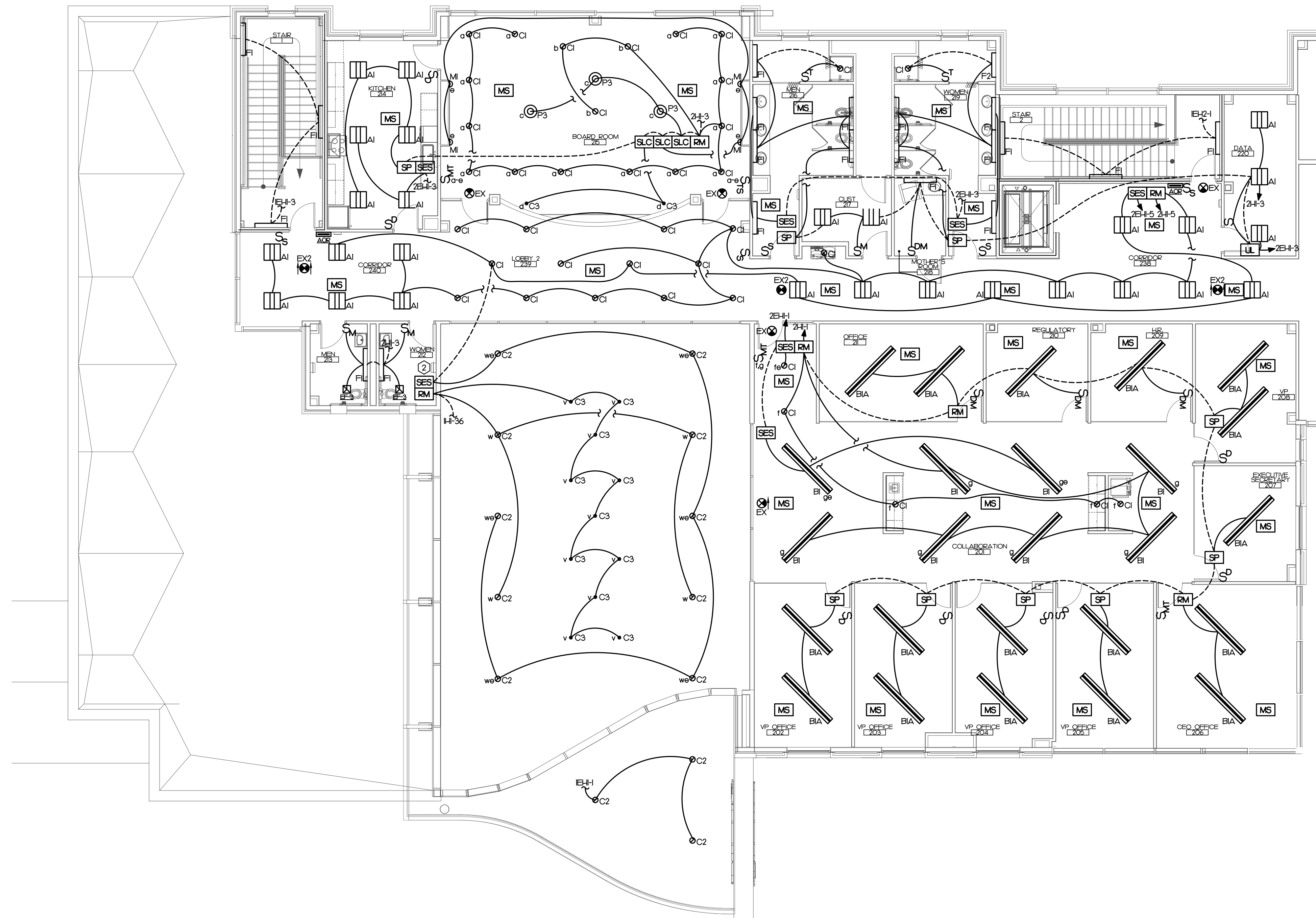
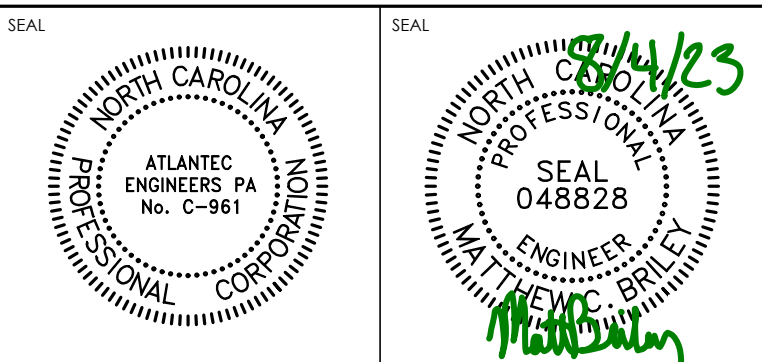
SECOND FLOOR PLAN (A15)
 SCALE: 3/32" = 1'-0"

KEY NOTES

- ① FIXTURE TO BE CIRCUITED AS A NIGHT LIGHT ON A DEDICATED CIRCUIT FOR ELEVATOR MACHINE SPACE. FIELD COORDINATE FIXTURE INSTALLATION TO PROVIDE ZOFCA AT ELEVATOR LANDING.
- ② SEE VIEW KEY NOTE #4 FOR TOUCHSCREEN CONTROL LOCATION FOR CONTROL ZONES 'w' AND 'v' AT HIGH LOBBY CEILING.

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NOTES:

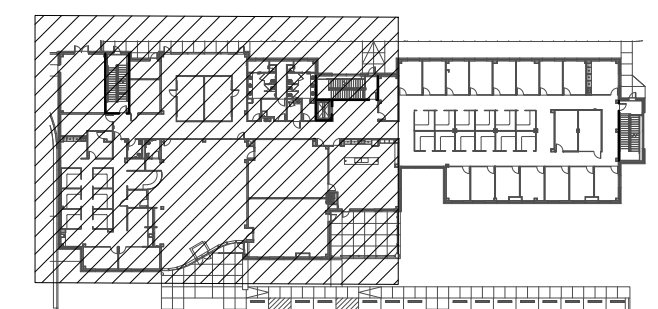
- 1. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE, HEIGHT, AND LAYOUT. DO NOT DIMENSION BASED ON THESE PLANS.
- 2. CONNECT EXIT LIGHTS AND AREA OF REFUGE SIGNS TO THE LOCAL EMERGENCY LIGHTING CIRCUIT IN THE AREA UNSWITCHED.
- 3. PROVIDE LOW VOLTAGE CABLE AND CONTROL WIRING AS REQUIRED FOR LIGHTING CONTROLS. SEE E5.2 FOR LIGHTING CONTROLS INTERCONNECTIVITY DETAILS.
- 4. INSTALL LIGHTING CONTROLS EQUIPMENT IN ACCESSIBLE CEILING SPACE AS REQUIRED. FIELD COORDINATE EXACT LOCATION.
- 5. CONTRACTOR TO SUBMIT SITE SPECIFIC LIGHTING CONTROLS DIAGRAM FOR APPROVAL.
- 6. ALL FIXTURES CONTROLLED FROM TOUCHSCREEN CONTROLS SHALL HAVE DIMMING EXCEPT FOR CORRIDORS. PROVIDE LOW VOLTAGE CONTROL WIRE AS REQUIRED.
- 7. LOWER CASE LETTERS INDICATE ZONES OF CONTROL. SWITCHES TO CONTROL CORRESPONDING LIGHT FIXTURES. CONTROL LETTERING BEGINS AT 'a' ON EACH SHEET UNLESS OTHERWISE NOTED.
- 8. FIXTURES WITH TWO CHARACTER LOWER CASE CONTROL LETTERING ENDING IN 'e', CONNECT FIXTURES TO EMERGENCY LIGHTING CIRCUIT AS SHOWN.

SECOND FLOOR LIGHTING PLAN - WEST

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

A15

KEY PLAN



NO	REVISION	DATE

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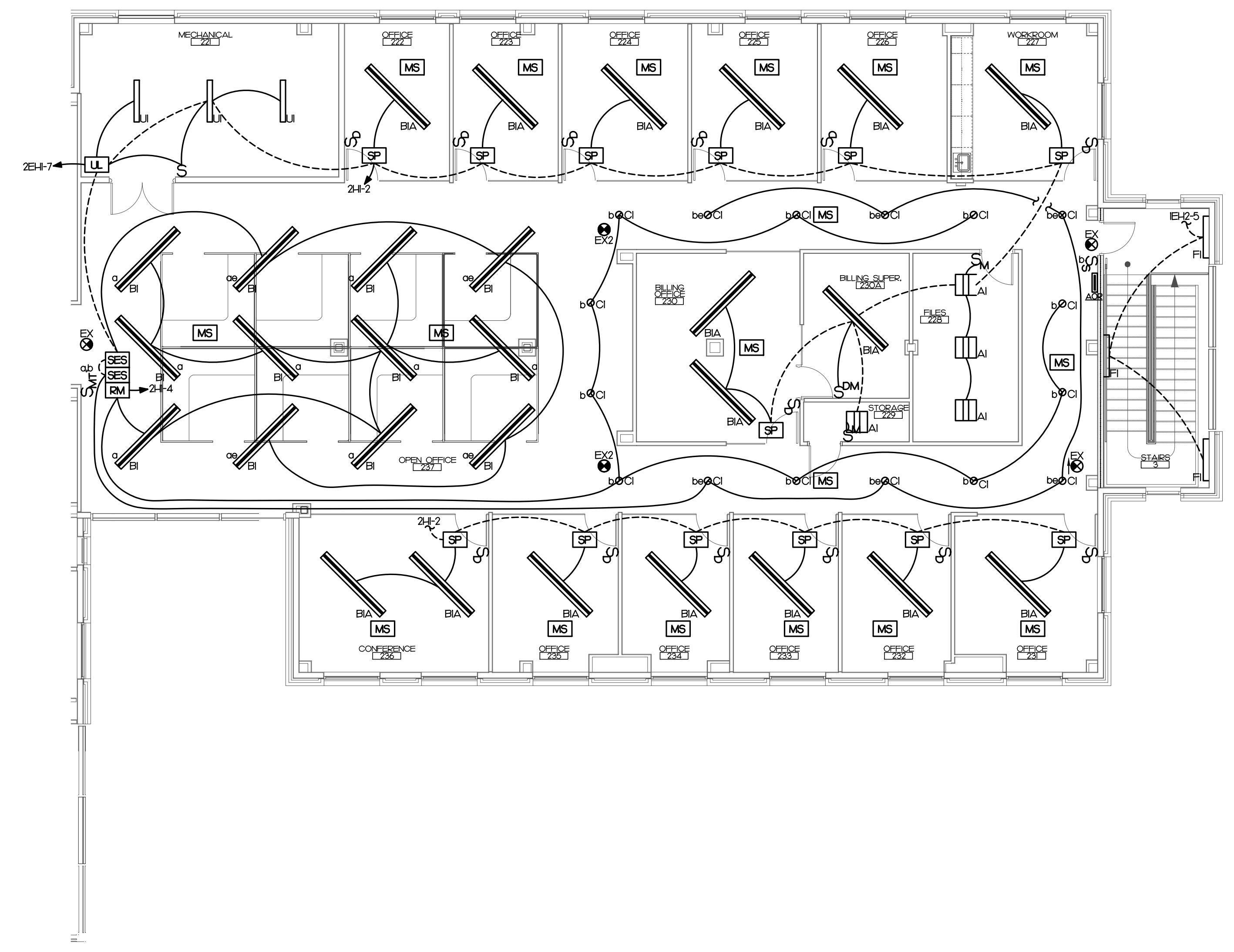
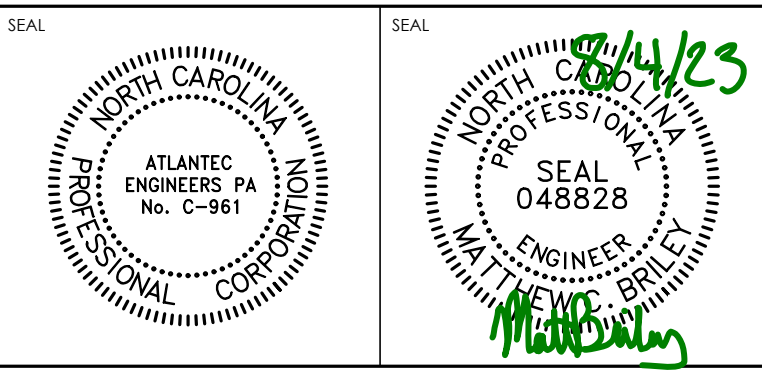
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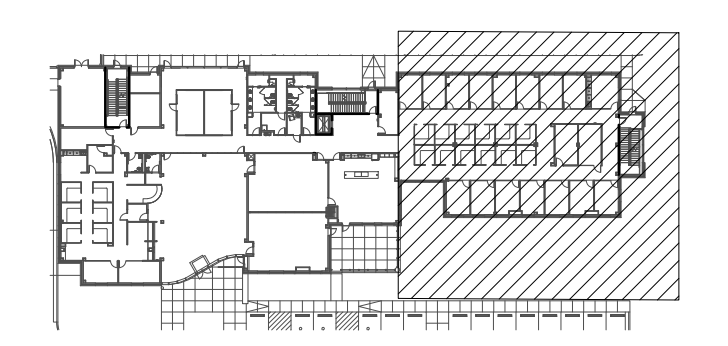
DRAWING TITLE
OFFICE BUILDING
SECOND FLOOR
LIGHTING PLAN - WEST

SCALE	SEE PLANS	DRAWING NO.
DRAWN	MCB	E1.21
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

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KEY PLAN



- NOTES:**
- SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE, HEIGHT, AND LAYOUT. DO NOT DIMENSION BASED ON THESE PLANS.
 - CONNECT EXIT LIGHTS AND AREA OF REFUGE SIGNS TO THE LOCAL EMERGENCY LIGHTING CIRCUIT IN THE AREA UNSWITCHED.
 - PROVIDE LOW VOLTAGE CABLE AND CONTROL WIRING AS REQUIRED FOR LIGHTING CONTROLS. SEE E5.2 FOR LIGHTING CONTROLS INTERCONNECTIVITY DETAILS.
 - INSTALL LIGHTING CONTROLS EQUIPMENT IN ACCESSIBLE CEILING SPACE AS REQUIRED. FIELD COORDINATE EXACT LOCATION.
 - CONTRACTOR TO SUBMIT SITE SPECIFIC LIGHTING CONTROLS DIAGRAM FOR APPROVAL.
 - ALL FIXTURES CONTROLLED FROM TOUCH-SCREEN CONTROLS SHALL HAVE DIMMING EXCEPT FOR CORRIDORS. PROVIDE LOW VOLTAGE CONTROL WIRE AS REQUIRED.
 - LOWER CASE LETTERS INDICATE ZONES OF CONTROL. SWITCHES TO CONTROL CORRESPONDING LIGHT FIXTURES. CONTROL LETTERING BEGINS AT 'a' ON EACH SHEET UNLESS OTHERWISE NOTED.
 - FIXTURES WITH TWO CHARACTER LOWER CASE CONTROL LETTERING ENDING IN 'e', CONNECT FIXTURES TO EMERGENCY LIGHTING CIRCUIT AS SHOWN.

NO	REVISION	DATE

J K F
ARCHITECTURE

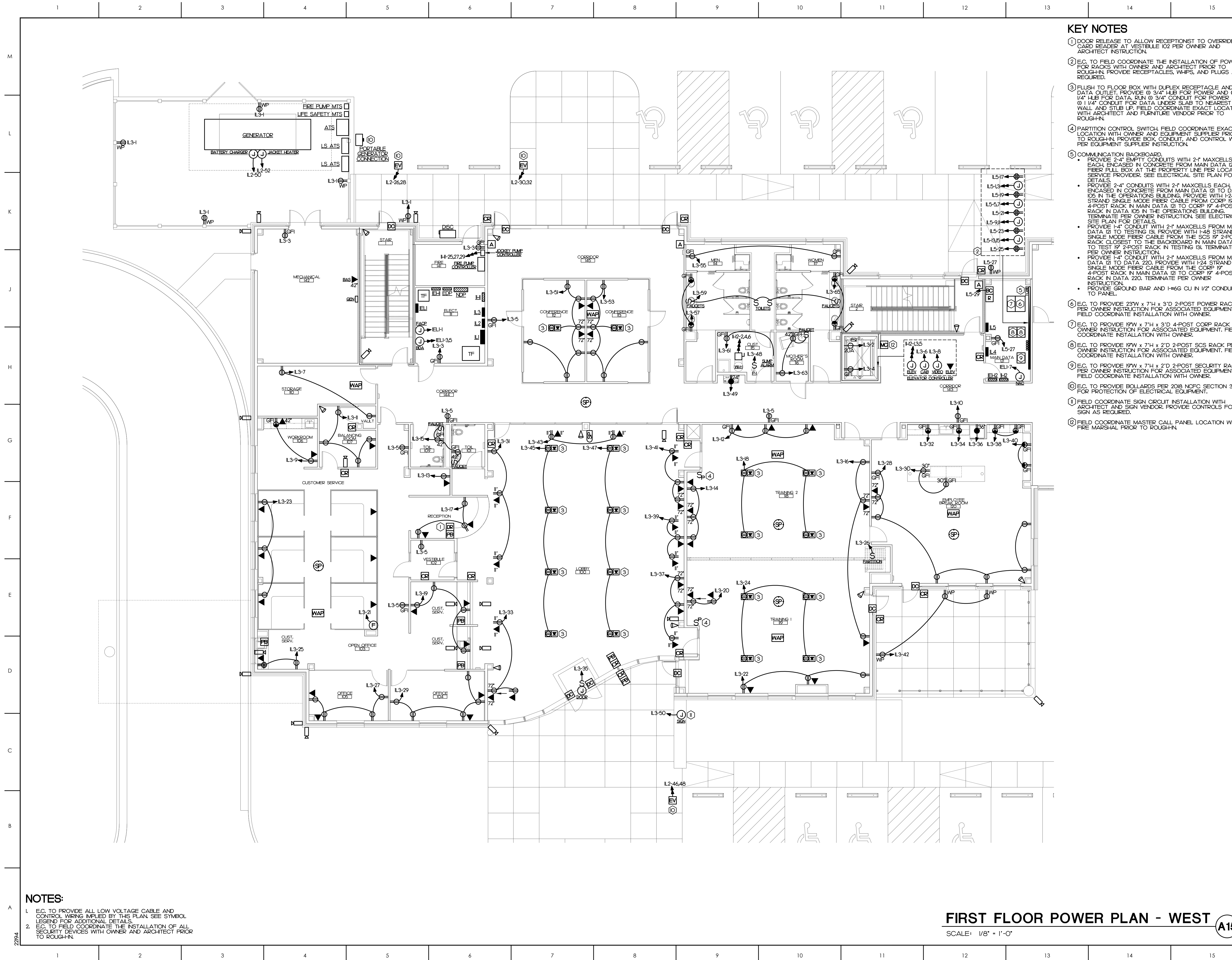
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DRAWING TITLE
OFFICE BUILDING
SECOND FLOOR
LIGHTING PLAN - EAST

SCALE	SEE PLANS	DRAWING NO.
DRAWN	MCB	E1.22
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

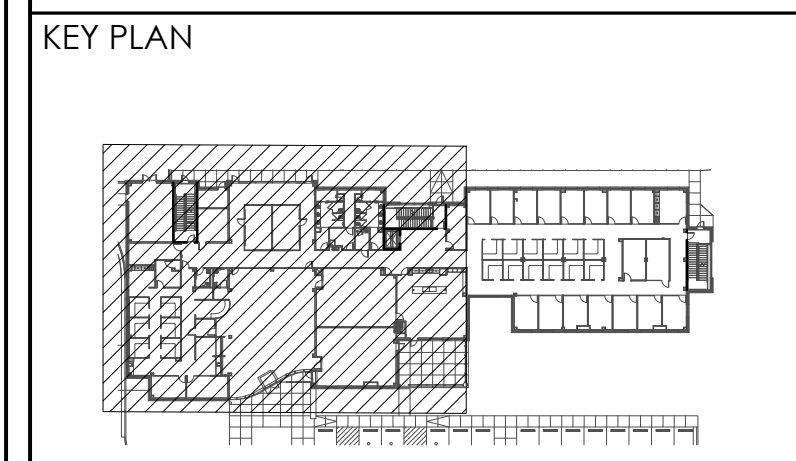
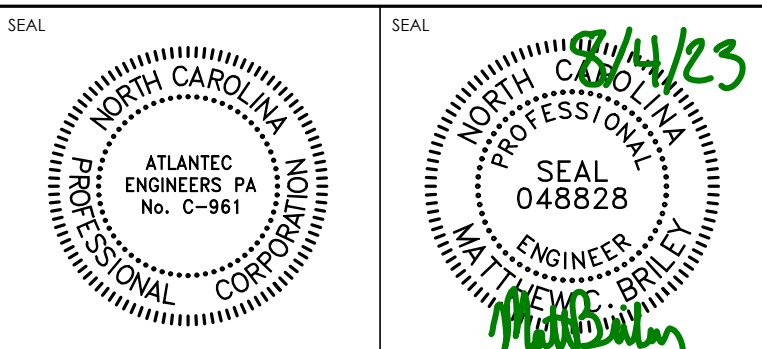
SECOND FLOOR LIGHTING PLAN - EAST (A15)
SCALE: 1/8" = 1'-0"



- ### KEY NOTES
- DOOR RELEASE TO ALLOW RECEPTIONIST TO OVERRIDE CARD READER AT VESTIBULE 102 PER OWNER AND ARCHITECT INSTRUCTION.
 - E.C. TO FIELD COORDINATE THE INSTALLATION OF POWER FOR RACKS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE RECEPTACLES, WHIPS, AND PLUGS AS REQUIRED.
 - FLUSH TO FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA OUTLET. PROVIDE (1) 3/4" HUB FOR POWER AND (1) 1/4" HUB FOR DATA. RUN (1) 3/4" CONDUIT FOR POWER AND (1) 1/4" CONDUIT FOR DATA UNDER SLAB TO NEAREST WALL AND STUB UP. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
 - PARTITION CONTROL SWITCH. FIELD COORDINATE EXACT LOCATION WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE BOX, CONDUIT, AND CONTROL WIRE PER EQUIPMENT SUPPLIER INSTRUCTION.
 - COMMUNICATION BACKBOARD.
 - PROVIDE 2-4" EMPTY CONDUITS WITH 2-1" MAXCELLS EACH ENCASED IN CONCRETE FROM MAIN DATA 121 TO FIBER PULL BOX AT THE PROPERTY LINE PER LOCAL SERVICE PROVIDER. SEE ELECTRICAL SITE PLAN FOR DETAILS.
 - PROVIDE 2-4" CONDUITS WITH 2-1" MAXCELLS EACH ENCASED IN CONCRETE FROM MAIN DATA 121 TO DATA 105 IN THE OPERATIONS BUILDING. PROVIDE WITH 1-24 STRAND SINGLE MODE FIBER CABLE FROM CORP 19' 4-POST RACK IN MAIN DATA 121 TO CORP 19' 4-POST RACK IN DATA 105 IN THE OPERATIONS BUILDING. TERMINATE PER OWNER INSTRUCTION. SEE ELECTRICAL SITE PLAN FOR DETAILS.
 - PROVIDE 1-4" CONDUIT WITH 2-1" MAXCELLS FROM MAIN DATA 121 TO TESTING 19. PROVIDE WITH 1-24 STRAND SINGLE MODE FIBER CABLE FROM THE SC5 19' 2-POST RACK CLOSEST TO THE BACKBOARD IN MAIN DATA 121 TO TEST 19' 2-POST RACK IN TESTING 19. TERMINATE PER OWNER INSTRUCTION.
 - PROVIDE 1-4" CONDUIT WITH 2-1" MAXCELLS FROM MAIN DATA 121 TO DATA 220. PROVIDE WITH 1-24 STRAND SINGLE MODE FIBER CABLE FROM THE CORP 19' 4-POST RACK IN MAIN DATA 121 TO CORP 19' 4-POST RACK IN DATA 220. TERMINATE PER OWNER INSTRUCTION.
 - PROVIDE GROUND BAR AND 1-H66 CU IN 1/2" CONDUIT TO PANEL.
 - E.C. TO PROVIDE 23W x 7H x 3'D 2-POST POWER RACK PER OWNER INSTRUCTION FOR ASSOCIATED EQUIPMENT. FIELD COORDINATE INSTALLATION WITH OWNER.
 - E.C. TO PROVIDE 19W x 7H x 3'D 4-POST CORP RACK PER OWNER INSTRUCTION FOR ASSOCIATED EQUIPMENT. FIELD COORDINATE INSTALLATION WITH OWNER.
 - E.C. TO PROVIDE 19W x 7H x 2'D 2-POST SCS RACK PER OWNER INSTRUCTION FOR ASSOCIATED EQUIPMENT. FIELD COORDINATE INSTALLATION WITH OWNER.
 - E.C. TO PROVIDE 19W x 7H x 2'D 2-POST SECURITY RACK PER OWNER INSTRUCTION FOR ASSOCIATED EQUIPMENT. FIELD COORDINATE INSTALLATION WITH OWNER.
 - E.C. TO PROVIDE BOLLARDS PER 2018 NCFD SECTION 32 FOR PROTECTION OF ELECTRICAL EQUIPMENT.
 - FIELD COORDINATE SIGN CIRCUIT INSTALLATION WITH ARCHITECT AND SIGN VENDOR. PROVIDE CONTROLS FOR SIGN AS REQUIRED.
 - FIELD COORDINATE MASTER CALL PANEL LOCATION WITH FIRE MARSHAL PRIOR TO ROUGH-IN.

- ### NOTES:
- E.C. TO PROVIDE ALL LOW VOLTAGE CABLE AND CONTROL WIRING IMPLIED BY THIS PLAN. SEE SYMBOL LEGEND FOR ADDITIONAL DETAILS.
 - E.C. TO FIELD COORDINATE THE INSTALLATION OF ALL SECURITY DEVICES WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

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NO	REVISION	DATE

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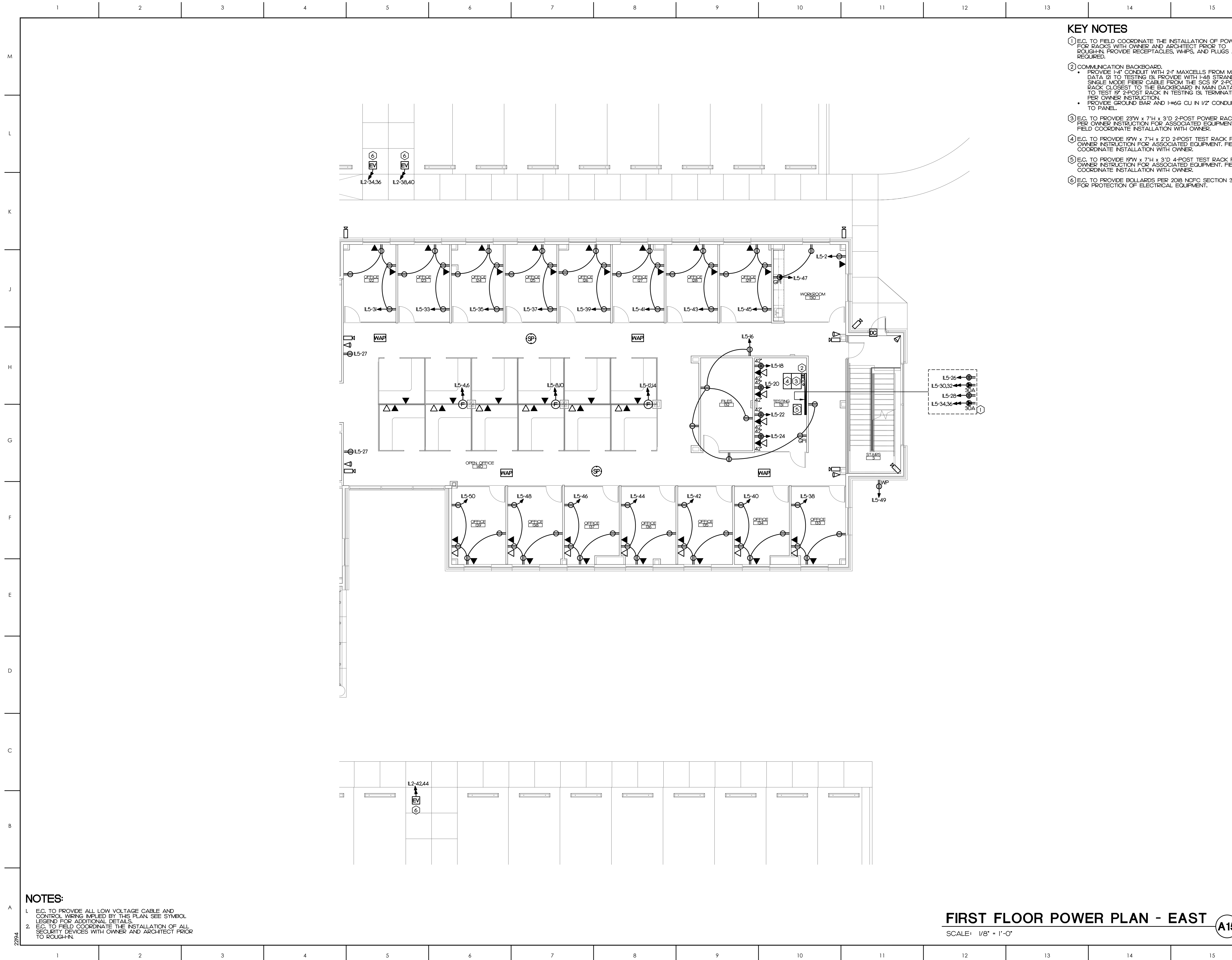
STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

DRAWING TITLE
OFFICE BUILDING
FIRST FLOOR
POWER PLAN - WEST

SCALE SEE PLANS	DRAWING NO. E2.11
DRAWN MCB	
CHECKED MCB	
DATE 07-15-2023	
PROJECT NO. 2022-17	

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FIRST FLOOR POWER PLAN - WEST (A15)
 SCALE: 1/8" = 1'-0"



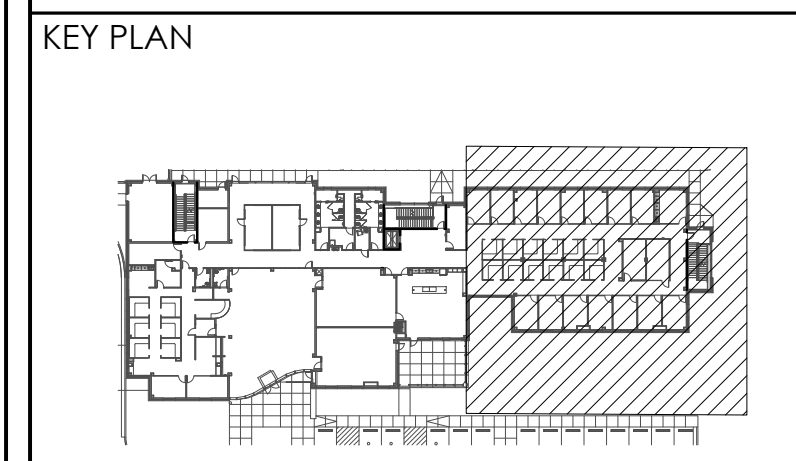
- KEY NOTES**
1. E.C. TO FIELD COORDINATE THE INSTALLATION OF POWER FOR RACKS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE RECEPTACLES, WHIPS, AND PLUGS AS REQUIRED.
 2. COMMUNICATION BACKBOARD.
 - PROVIDE 1-1/2" CONDUIT WITH 2-1" MAXCELLS FROM MAIN DATA I21 TO TESTING IS1. PROVIDE WITH 1-1/8" STRAND SINGLE MODE FIBER CABLE FROM THE SCS I9 2-POST RACK CLOSEST TO THE BACKBOARD IN MAIN DATA I21 TO TESTING I9 2-POST RACK IN TESTING IS1. TERMINATE PER OWNER INSTRUCTION.
 - PROVIDE GROUND BAR AND 1-1/2" CU IN 1/2" CONDUIT TO PANEL.
 3. E.C. TO PROVIDE 23W x 7-1/4 x 3'-0" 2-POST POWER RACK PER OWNER INSTRUCTION FOR ASSOCIATED EQUIPMENT. FIELD COORDINATE INSTALLATION WITH OWNER.
 4. E.C. TO PROVIDE 19W x 7-1/4 x 2'-0" 2-POST TEST RACK PER OWNER INSTRUCTION FOR ASSOCIATED EQUIPMENT. FIELD COORDINATE INSTALLATION WITH OWNER.
 5. E.C. TO PROVIDE 19W x 7-1/4 x 3'-0" 4-POST TEST RACK PER OWNER INSTRUCTION FOR ASSOCIATED EQUIPMENT. FIELD COORDINATE INSTALLATION WITH OWNER.
 6. E.C. TO PROVIDE BOLLARDS PER 2018 NCFE SECTION 312 FOR PROTECTION OF ELECTRICAL EQUIPMENT.

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Professional Engineer Seal for North Carolina, No. 048828, dated 8/11/23.

- NOTES:**
1. E.C. TO PROVIDE ALL LOW VOLTAGE CABLE AND CONTROL WIRING IMPLIED BY THIS PLAN. SEE SYMBOL LEGEND FOR ADDITIONAL DETAILS.
 2. E.C. TO FIELD COORDINATE THE INSTALLATION OF ALL SECURITY DEVICES WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

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



NO	REVISION	DATE

JKF ARCHITECTURE

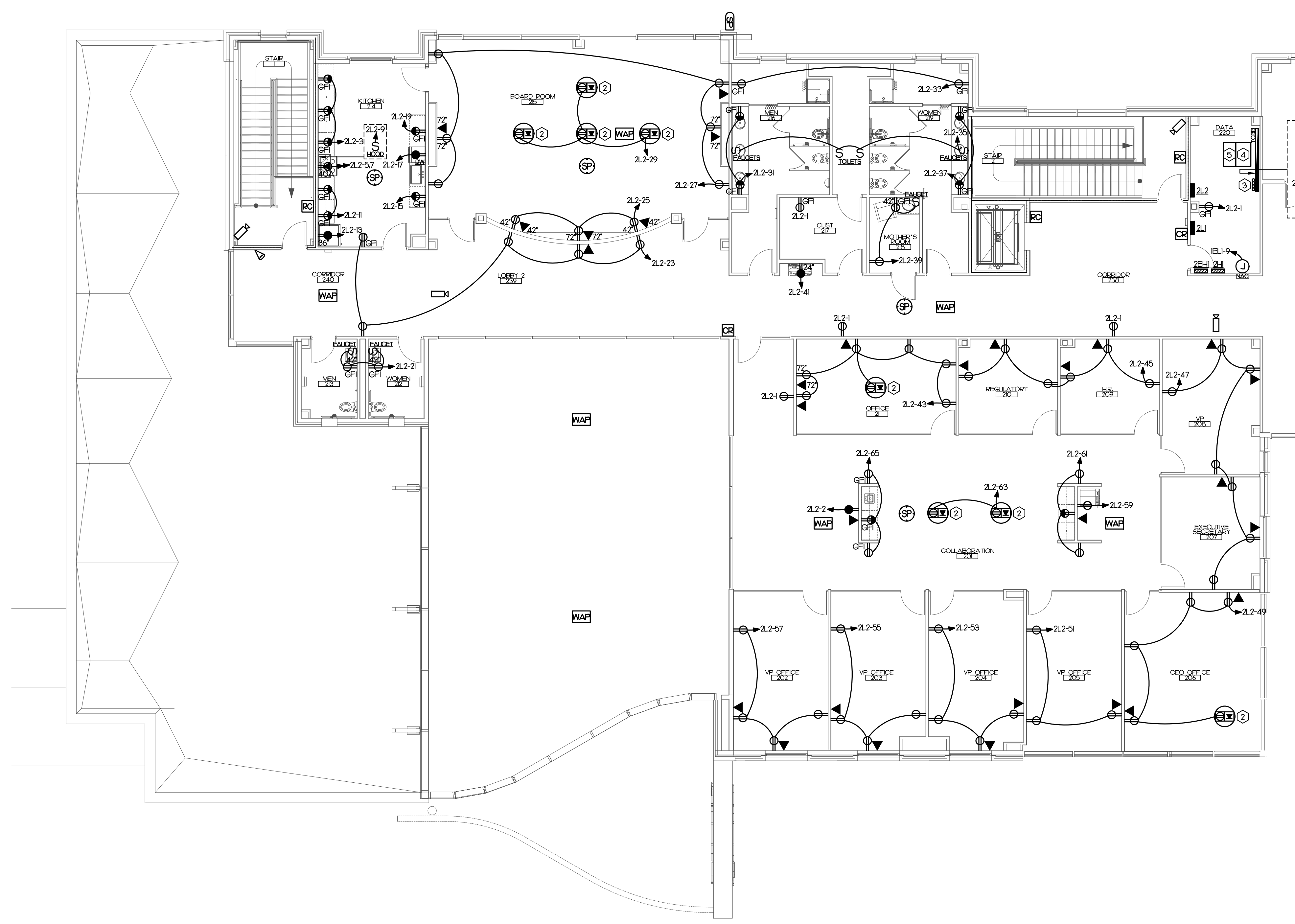
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STAR COMMUNICATIONS NEW HEADQUARTERS
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OFFICE BUILDING FIRST FLOOR POWER PLAN - EAST

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DRAWN	MCB	
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

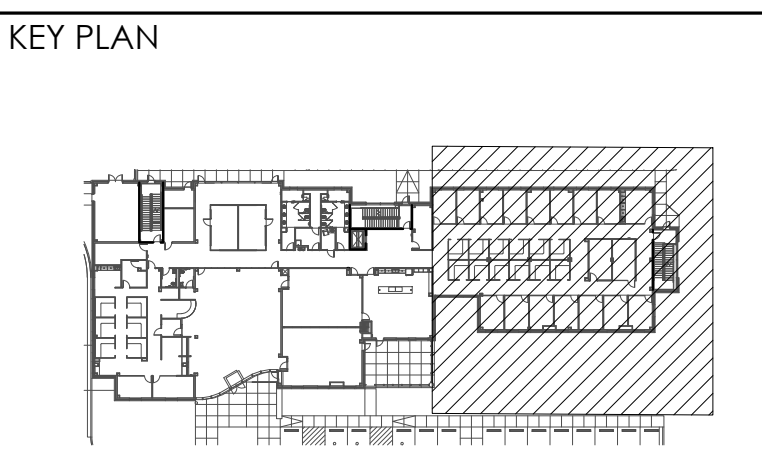
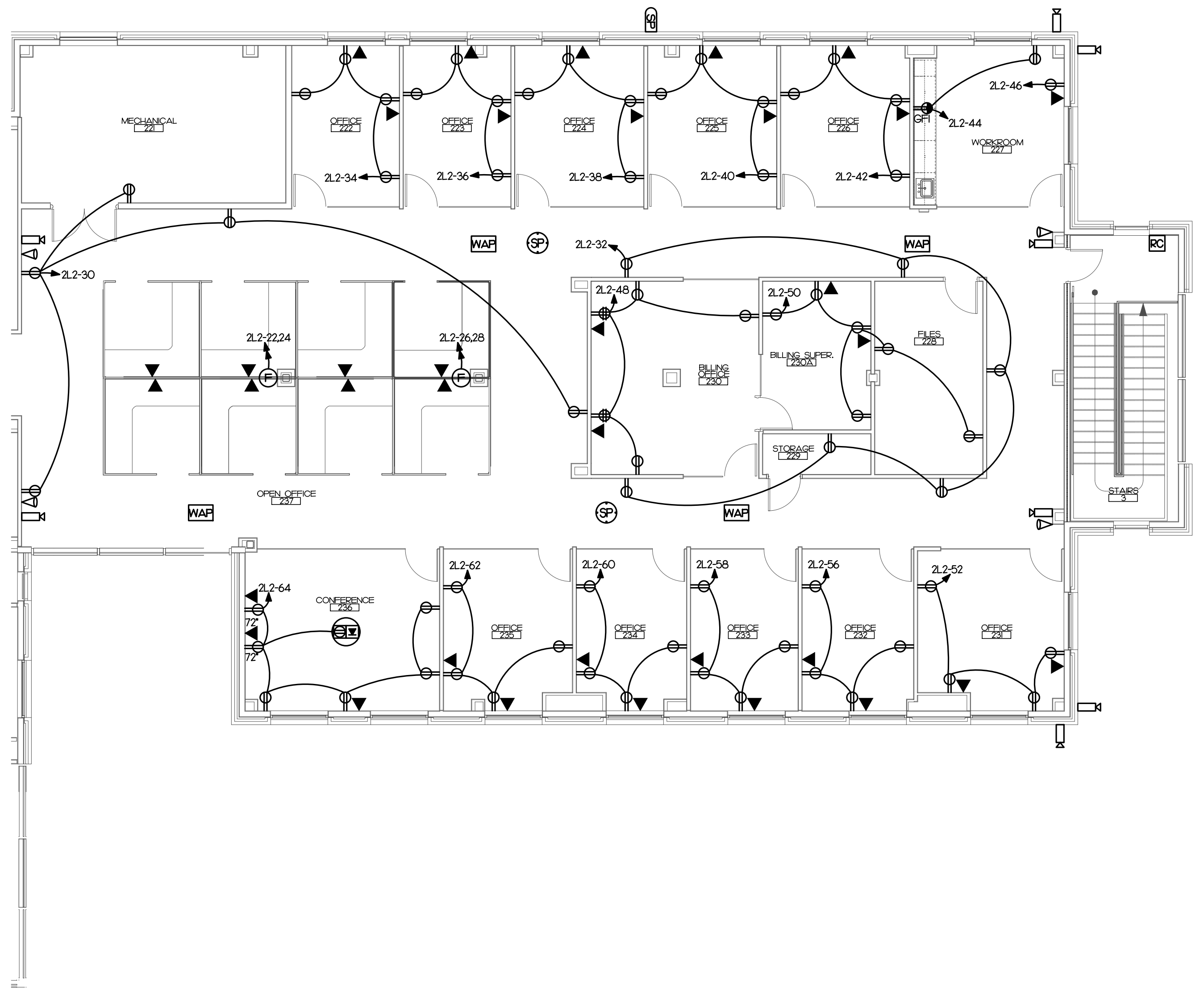
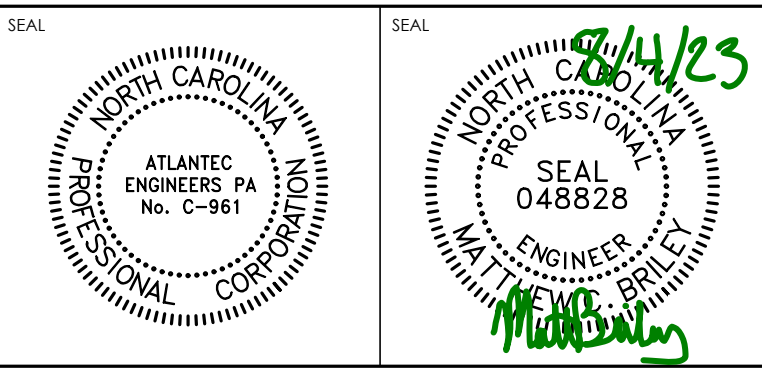
- KEY NOTES**
1. E.C. TO FIELD COORDINATE THE INSTALLATION OF POWER FOR RACKS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE RECEPTACLES, WHIPS, AND PLUGS AS REQUIRED.
 2. FLUSH TO FLOOR FIRE-RATED POKE THRU WITH DUPLEX RECEPTACLE AND DATA OUTLET. PROVIDE (0) 3/4" HUB FOR POWER AND (0) 1/4" HUB FOR DATA. RUN CONDUIT (0) 3/4" CONDUIT FOR POWER AND (0) 1/4" CONDUIT FOR DATA IN FIRST FLOOR ACCESSIBLE CEILING SPACE TO NEAREST WALL AND STUB UP. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
 3. COMMUNICATION BACKBOARD.
 - PROVIDE 1-4" CONDUIT WITH 2-1" MAXCELLS FROM MAIN DATA I21 TO DATA I20. PROVIDE WITH 224 STRAND SINGLE MODE FIBER CABLE FROM THE CORP 19" 4-POST RACK IN MAIN DATA I21 TO CORP 19" 4-POST RACK IN DATA I20. TERMINATE PER OWNER INSTRUCTION.
 - PROVIDE 3-4" EMPTY CONDUIT SLEEVES FROM MAIN DATA I21 TO DATA I20. FIELD COORDINATE INSTALLATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
 - PROVIDE GROUND BAR AND I-66 CU IN 1/2" CONDUIT TO PANEL.
 4. E.C. TO PROVIDE 23"W x 7"H x 3"D 2-POST POWER RACK PER OWNER INSTRUCTION FOR ASSOCIATED EQUIPMENT. FIELD COORDINATE INSTALLATION WITH OWNER.
 5. E.C. TO PROVIDE 19"W x 7"H x 3"D 4-POST CORP RACK PER OWNER INSTRUCTION FOR ASSOCIATED EQUIPMENT. FIELD COORDINATE INSTALLATION WITH OWNER.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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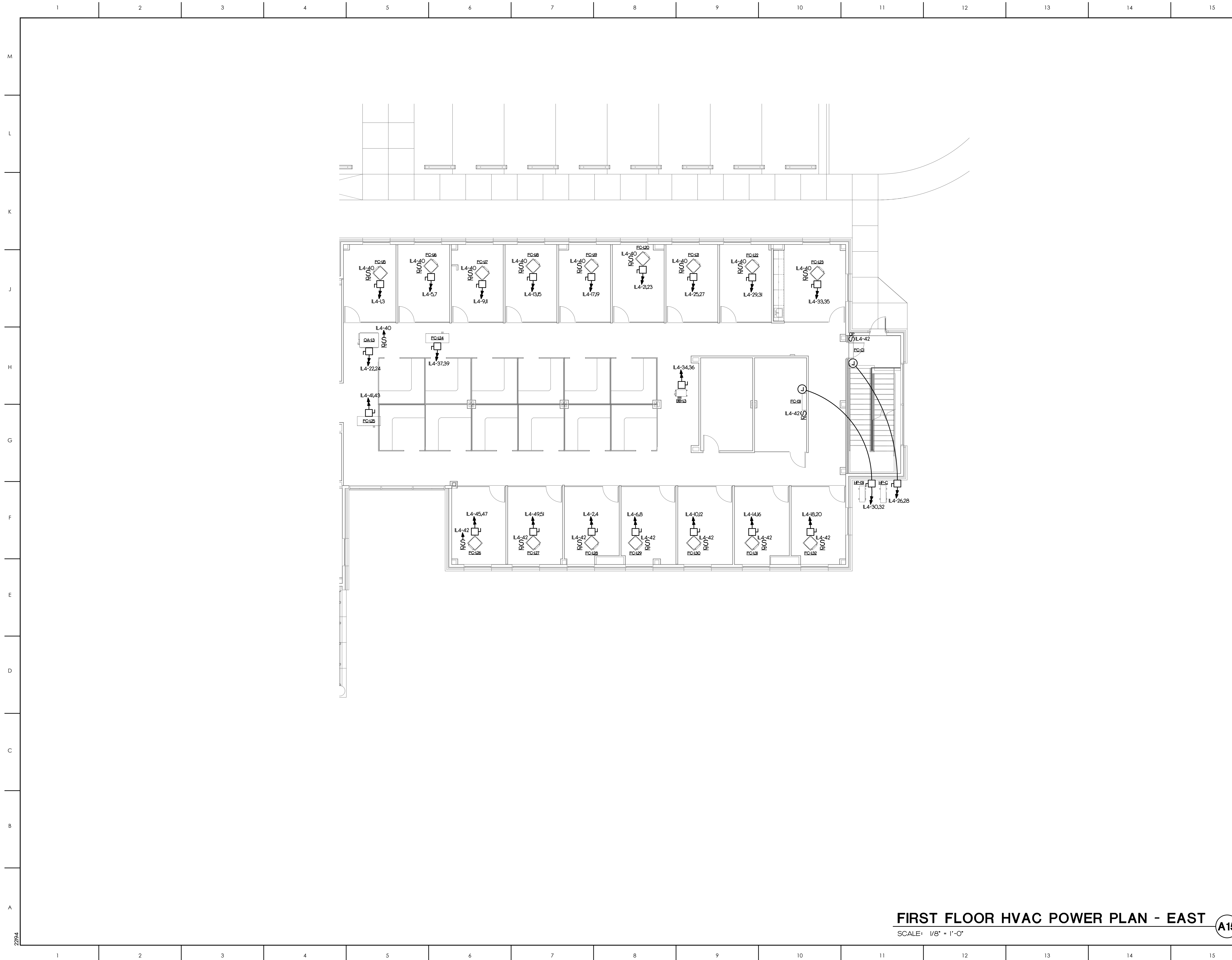


NOTES:
1. E.C. TO PROVIDE ALL LOW VOLTAGE CABLE AND CONTROL WIRING IMPLIED BY THIS PLAN. SEE SYMBOL LEGEND FOR ADDITIONAL DETAILS.
2. E.C. TO FIELD COORDINATE THE INSTALLATION OF ALL SECURITY DEVICES WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

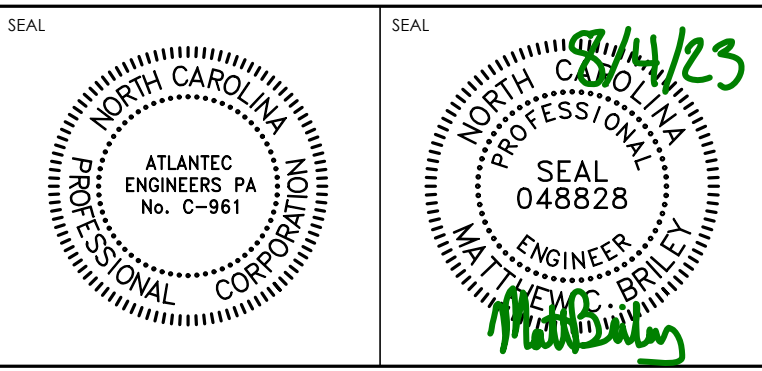
SECOND FLOOR POWER PLAN - EAST (A15)
SCALE: 1/8" = 1'-0"

NO		REVISION	DATE
SEAL		JKF ARCHITECTURE	
635 LYNHDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068			
STAR COMMUNICATIONS NEW HEADQUARTERS CLINTON, NC			
DRAWING TITLE OFFICE BUILDING SECOND FLOOR POWER PLAN - EAST			
SCALE	SEE PLANS	DRAWING NO. E2.22	
DRAWN	MCB	DATE 07-15-2023	
CHECKED	MCB	PROJECT NO. 2022-17	
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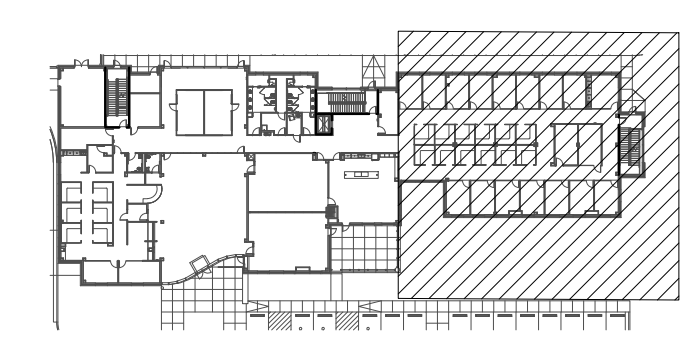
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KEY PLAN



NO	REVISION	DATE

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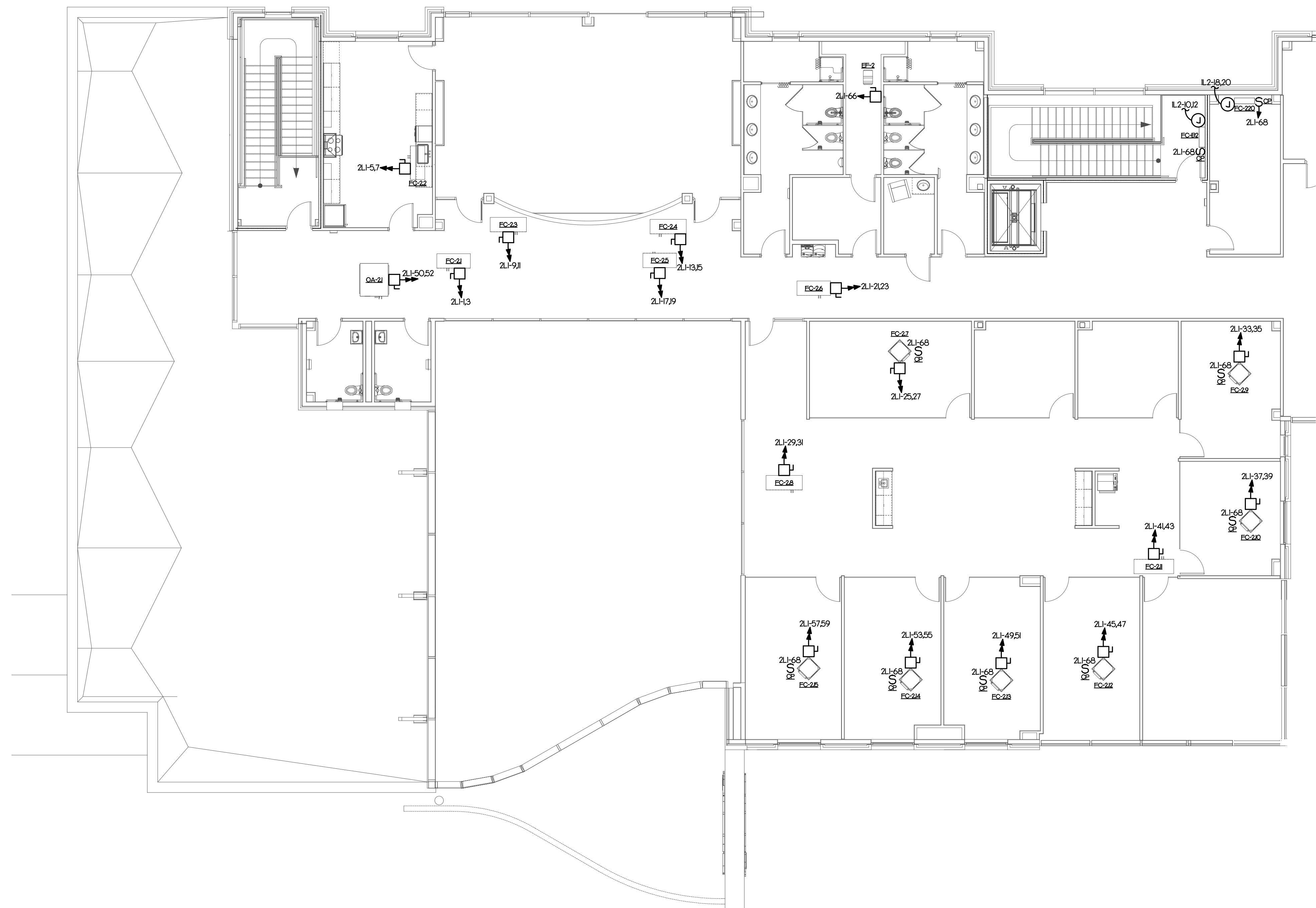
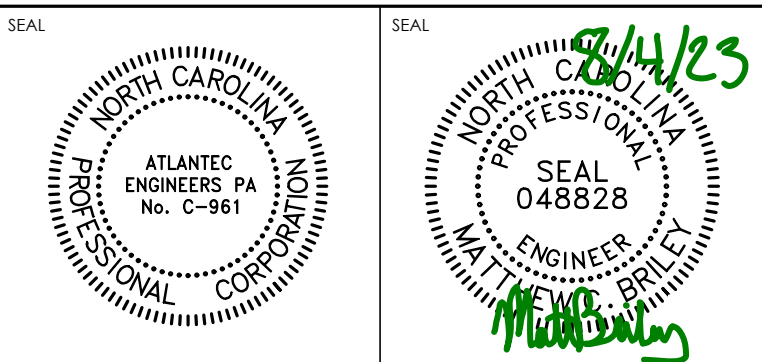
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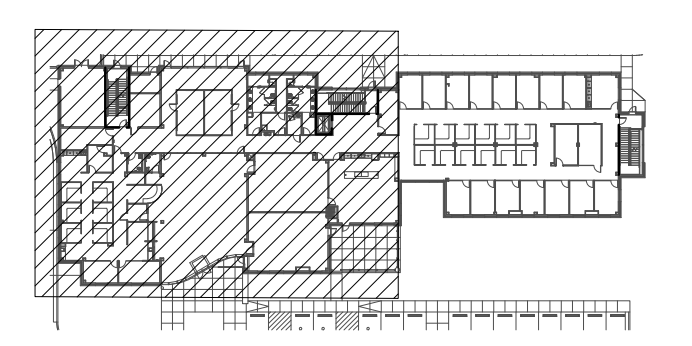
DRAWING TITLE
 OFFICE BUILDING
 FIRST FLOOR
 HVAC POWER PLAN - EAST

SCALE SEE PLANS	DRAWING NO. E3.12
DRAWN MCB	
CHECKED MCB	
DATE 07-15-2023	
PROJECT NO. 2022-17	

FIRST FLOOR HVAC POWER PLAN - EAST (A15)
 SCALE: 1/8" = 1'-0"



KEY PLAN



NO	REVISION	DATE

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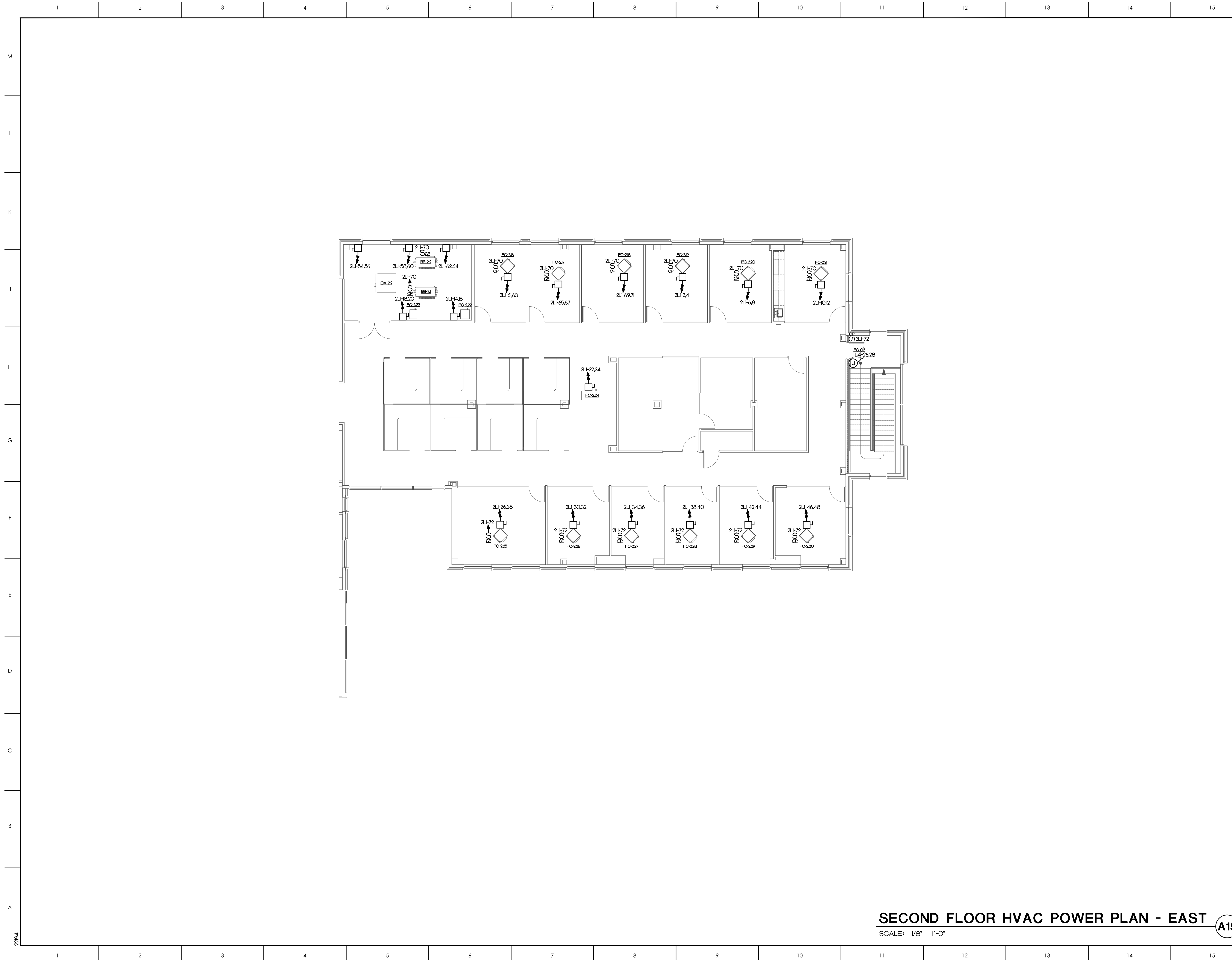
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HEADQUARTERS
CLINTON, NC

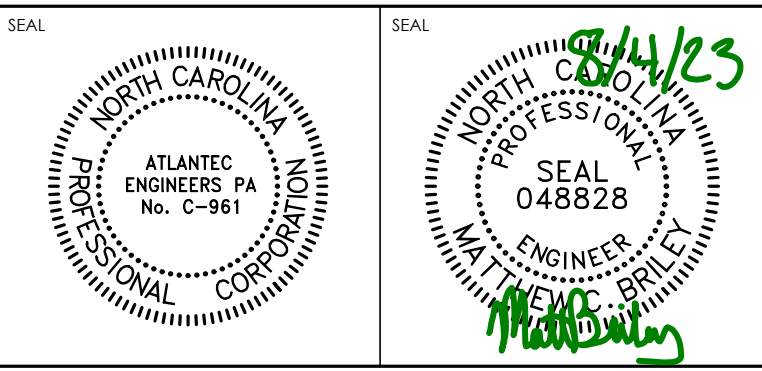
DRAWING TITLE
OFFICE BUILDING
SECOND FLOOR
HVAC POWER PLAN - WEST

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DRAWN	MCB	
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

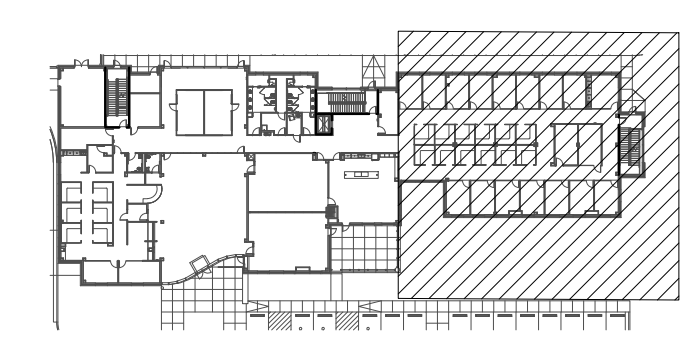
SECOND FLOOR HVAC POWER PLAN - WEST (A15)
SCALE: 1/8" = 1'-0"



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KEY PLAN



NO	REVISION	DATE

J K F
 ARCHITECTURE

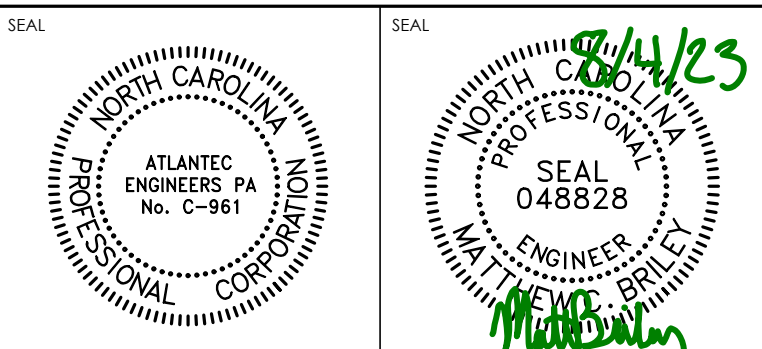
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STAR COMMUNICATIONS NEW
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DRAWING TITLE
 OFFICE BUILDING
 SECOND FLOOR
 HVAC POWER PLAN - EAST

SCALE	SEE PLANS	DRAWING NO. E3.22
DRAWN	MCB	
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

SECOND FLOOR HVAC POWER PLAN - EAST (A15)
 SCALE: 1/8" = 1'-0"



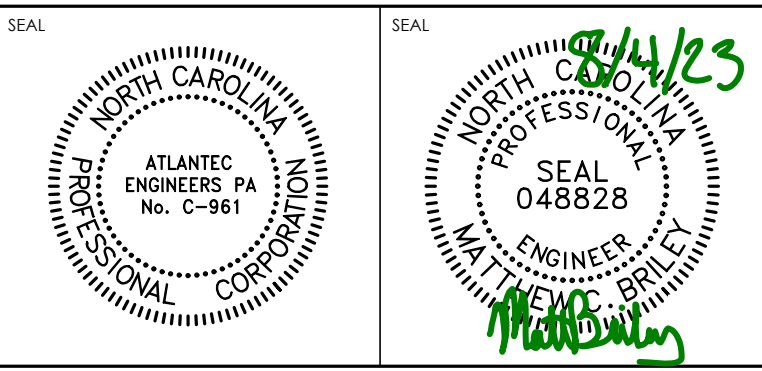
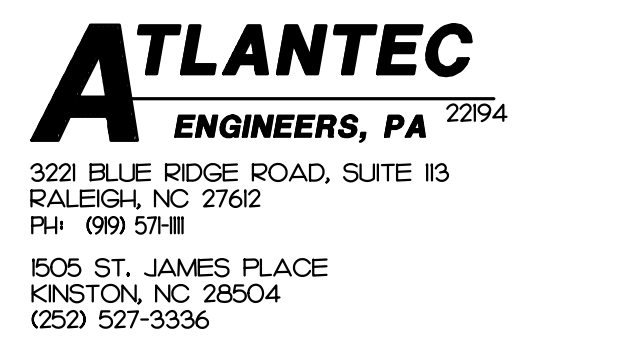
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3								4	3P	3	--	--	4.4			4							
5		25.3	--	--	3/0	--	5	6	--	3	--	--	5.3			6							
7	PANEL 'L3'	1.0	1 1/4	8	3	100	7	8	200	3/0	6	2	23.4		PANEL '2L2'	8							
9		1.0	--	--	3	3P	9	10	3P	3/0	--	--	16.1			10							
13	PANEL 'L4'	5.2	1 1/4	8	3	100	13	14	--	--	--	--	0.0		SPACE ONLY	14							
15		4.5	--	--	3	3P	15	16	--	--	--	--	0.0		SPACE ONLY	16							
17		4.0	--	--	3	--	17	18	--	--	--	--	0.0		SPACE ONLY	18							
19	PANEL 'L5'	25.0	2	6	3/0	200	19	20	--	--	--	--	0.0		SPACE ONLY	20							
21		25.6	--	--	3/0	3P	21	22	--	--	--	--	0.0		SPACE ONLY	22							
23		21.6	--	--	3/0	--	23	24	--	--	--	--	0.0		SPACE ONLY	24							
25	SPACE ONLY	0.0	--	--	--	--	25	26	--	--	--	--	0.0		SPACE ONLY	26							
27	SPACE ONLY	0.0	--	--	--	--	27	28	--	--	--	--	0.0		SPACE ONLY	28							
29	SPACE ONLY	0.0	--	--	--	--	29	30	--	--	--	--	0.0		SPACE ONLY	30							
31	SPACE ONLY	0.0	--	--	--	--	31	32	--	--	--	--	0.0		SPACE ONLY	32							
33	SPACE ONLY	0.0	--	--	--	--	33	34	--	--	--	--	0.0		SPACE ONLY	34							
35	SPACE ONLY	0.0	--	--	--	--	35	36	--	--	--	--	0.0		SPACE ONLY	36							
37	SPACE ONLY	0.0	--	--	--	--	37	38	--	--	--	--	0.0		SPACE ONLY	38							
39	SPACE ONLY	0.0	--	--	--	--	39	40	--	--	--	--	0.0		SPACE ONLY	40							
41	SPACE ONLY	0.0	--	--	--	--	41	42	--	--	--	--	0.0		SPACE ONLY	42							

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	NOTES	CONNECTED LOADS
CONT. LOAD	120	125%	150		PHASE A: 96.2 KVA
RECEPTACLE	854	100%/50%	427		PHASE B: 881 KVA
MTRS/COOLS	64.77	80%	51.82		PHASE C: 88.9 KVA
HEATS	6.90	100%	6.90		TOTAL: 2731 KVA
WATER HEATER	0.00	100%	0.00		DEMAND 484 AMP
EQUIPMENT	18.05	100%	18.05	1. SQUARE D 1 LINE	
KITCHEN EQUIP.	0.00	65%	0.00		
SPECIAL EQ.	100.67	50%	50.34		
25% OF LARGEST HVAC/MOTOR	0.00		0.00		
TOTAL DEMAND	1743.7		5		

PANEL 1L2												120/208V, 3 PHASE, 4 WIRE											
CKT	DESCRIPTION	KVA	C	G	W	CB	CKT	DESCRIPTION	KVA	C	G	W	CB	CKT	DESCRIPTION	KVA	C	G	W	CB	CKT		
1	HP-11FC-II	1.9	1/2	12	12	20	1	2	20	12	12	1/2	0.2		BB-12	2							
3		1.9	--	--	2	2P	3	4	2P	12	--	--	0.2			4							
5	OA-II	0.5	1/2	12	12	15	5	6	15	12	12	1/2	10		HP-AFC-A	6							
7		0.5	--	--	2	2P	7	8	2P	12	--	--	10			8							
9	OA-12	0.5	1/2	12	12	15	9	10	25	10	10	3/4	2.3		HP-BFC-BFC-B2	10							
11		0.5	--	--	2	2P	11	12	2P	10	--	--	2.3			12							
13	BB-II	0.2	1/2	12	12	15	13	14	20	12	12	1/2	19		HP-12FC-12	14							
15		0.2	--	--	2	2P	15	16	2P	12	--	--	19			16							
17	FC-II	0.4	1/2	12	12	15	17	18	15	12	12	1/2	10		HP-22FC-22	18							
19		0.4	--	--	2	2P	19	20	2P	12	--	--	10			20							
21	FC-12	0.3	1/2	12	12	15	21	22	20	12	12	1/2	15		UH	22							
23		0.3	--	--	2	2P	23	24	2P	12	--	--	15			24							
25	FC-13	0.0	1/2	12	12	15	25	26	40	8	10	1	31		EV CHARGER	26							
27		0.0	--	--	2	2P	27	28	2P	8	--	--	31			28							
29	FC-14	0.0	1/2	12	12	15	29	30	40	8	10	1	31		EV CHARGER	30							
31		0.0	--	--	2	2P	31	32	2P	8	--	--	31			32							
33	FC-15	0.3	1/2	12	12	15	33	34	40	6	10	1/2	31		EV CHARGER	34							
35		0.3	--	--	2	2P	35	36	2P	6	--	--	31			36							
37	FC-16	0.6	1/2	12	12	15	37	38	40	6	10	1/2	31		EV CHARGER	38							
39		0.6	--	--	2	2P	39	40	2P	6	--	--	31			40							
41	FC-17	0.6	1/2	12	12	15	41	42	40	6	10	1/2	31		EV CHARGER	42							
43		0.6	--	--	2	2P	43	44	2P	6	--	--	31			44							
45	FC-18	0.6	1/2	12	12	15	45	46	40	6	10	1/2	31		EV CHARGER	46							
47		0.6	--	--	2	2P	47	48	2P	6	--	--	31			48							
49	FC-19	0.3	1/2	12	12	15	49	50	20	12	12	1/2	15		BATTERY CHARGER	50							
51		0.3	--	--	2	2P	51	52	20	12	12	1/2	15		JACKET HEATER	52							
53	FC-10	0.3	1/2	12	12	15	53	54	20	12	12	1/2	10		CONDENSATE PUMPS	54							
55		0.3	--	--	2	2P	55	56	20	12	12	1/2	0.5		EF-1	56							
57	FC-11	0.3	1/2	12	12	15	57	58	20	12	12	1/2	0.5		BAS	58							
59		0.3	--	--	2	2P	59	60	20	12	12	1/2	0.5		VRF CONTROLLER	60							
61	FC-12	0.3	1/2	12	12	15	61	62	20	12	12	1/2	0.7		EF-4	62							
63		0.3	--	--	2	2P	63	64	20	12	12	1/2	0.5		JACKET	64							
65	FC-13	0.6	1/2	12	12	15	65	66	20	10	10	1	0.8		SYNAPSE LTG CTRL	66							
67		0.6	--	--	2	2P	67	68	2P	10	--	--	0.8		GATE OPERATOR	68							
69	FC-14	0.3	1/2	12	12	15	69	70	20	12	12	1/2	0.0		SPARE	70							
71		0.3	--	--	2	2P	71	72	20	12	12	1/2	0.0		SPARE	72							

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	NOTES	CONNECTED LOADS
CONT. LOAD	0.00	125%	0.00		PHASE A: 25.8 KVA
RECEPTACLE	0.00	100%/50%	0.00		PHASE B: 26.4 KVA
MTRS/COOLS	32.53	80%	26.03		PHASE C: 25.3 KVA
HEATS	4.50	100%	4.50		TOTAL: 77.5 KVA
WATER HEATER	0.00	100%	0.00		DEMAND 145 AMP
EQUIPMENT	3.00	100%	3.00	1. SQUARE D 1 NO	
KITCHEN EQUIP.	0.00	65%	0.00		
SPECIAL EQ.	37.44	50%	18.72		
25% OF LARGEST HVAC/MOTOR	0.00		0.00		
TOTAL DEMAND	32.25		5		

PANEL 1L3												120/208V, 3 PHASE, 4 WIRE											
CKT	DESCRIPTION	KVA	C	G	W	CB	CKT	DESCRIPTION	KVA	C	G	W	CB	CKT	DESCRIPTION	KVA	C	G	W	CB	CKT		
1	MECHANICAL YARD REC	0.9	1/2	12	12	20	1	2	20	12	12	1/2	0.5		ELEV SUMP PUMP	2							
3	REC 104142	0.5	1/2	12	12	20	3	4	20	12	12	1/2	0.2		ELEV FT REC	4							
5	REC 10344	0.4	1/2	12	12	20	5	6	20	12	12	1/2	0.4		ELEV CAB	6							
7	REC 101 VALLT	0.4	1/2	12	12	20	7	8	20	12	12	1/2	0.5		ELEV VIDEO	8							
9	REC 106	0.4	1/2	12	12	20	9	10	20	12	12	1/2	0.0		ELEV MACHINE SPACE REC	10							
11	REC 107	0.7	1/2	12	12	20	11	12	20	12	12	1/2	0.5		REC 108	12							
13	REC 103	0.2	1/2	12	12	20	13	14	20	12	12	1/2	0.5		REC 109	14							
15	REC FAUCETS 10109	0.4	1/2	12	12	20	15	16	20	12	12	1/2	0.5		REC 10109	16							
17	REC RECEPTION	0.5	1/2	12	12	20	17	18	20	12	12	1/2	0.7		FLOOR BOX 108	18							
19	REC GUST SERV	0.7	1/2	12	12	20	19	20	20	12	12	1/2	0.4		REC 109	20							
21	CLUBCLES 103	0.7	1/2	12	12	20	21	22	20	12	12	1/2	0.5		REC 109	22							
23	CLUBCLES 103	0.7	1/2	12	12	20	23	24	20	12	12	1/2	0.7		FLOOR BOX 109	24							
25	REC DRIVE THRU	0.5	1/2	12	12	20	25	26	20	12	12	1/2	1.0		PARTITION 109	26							
27	REC 105	0.7	1/2	12	12	20	27	28	20	12	12	1/2	1.3		REC 100	28							
29	REC 104	0.9	1/2	12	12	20	29	30	20	12	12	1/2	0.4		ISLAND REC 100	30							
31	REC 100	0.5	1/2	12	12	20	31	32	20	12	12	1/2	0.2		REC 100	32							
33	REC 100	0.5	1/2	12	12	20	33	34	20	12	12	1/2	0.2		REC 100	34							
35	DOOR OPERATOR 100	1.0	1/2	12	12	20	35	36	20	12	12	1											



PANEL 2L1 120/208V, 3 PHASE, 4 WIRE. Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, DESCRIPTION, OKT. Includes a summary table for connected loads and demand.

PANEL 2L2 120/208V, 3 PHASE, 4 WIRE. Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, DESCRIPTION, OKT. Includes a summary table for connected loads and demand.

PANEL EDP 277/480V, 3 PHASE, 4 WIRE. Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, DESCRIPTION, OKT. Includes a summary table for connected loads and demand.

PANEL 1EH1 277/480V, 3 PHASE, 4 WIRE. Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, DESCRIPTION, OKT. Includes a summary table for connected loads and demand.

PANEL 1EH2 277/480V, 3 PHASE, 4 WIRE. Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, DESCRIPTION, OKT. Includes a summary table for connected loads and demand.

PANEL 2EH1 277/480V, 3 PHASE, 4 WIRE. Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, DESCRIPTION, OKT. Includes a summary table for connected loads and demand.

PANEL 1EL1 120/208V, 3 PHASE, 4 WIRE. Table with columns: OKT, DESCRIPTION, KVA, C, G, W, CB, OKT, DESCRIPTION, OKT. Includes a summary table for connected loads and demand.

KEY PLAN

Table with columns: NO, REVISION, DATE. Includes a large 'JKF ARCHITECTURE' logo.

635 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW HEADQUARTERS CLINTON, NC

DRAWING TITLE: PANEL SCHEDULES. SCALE: SEE PLANS. DRAWING NO: E4.3. DATE: 07-15-2023. PROJECT NO: 2022-17.

PANEL SCHEDULES (A15) NOT TO SCALE

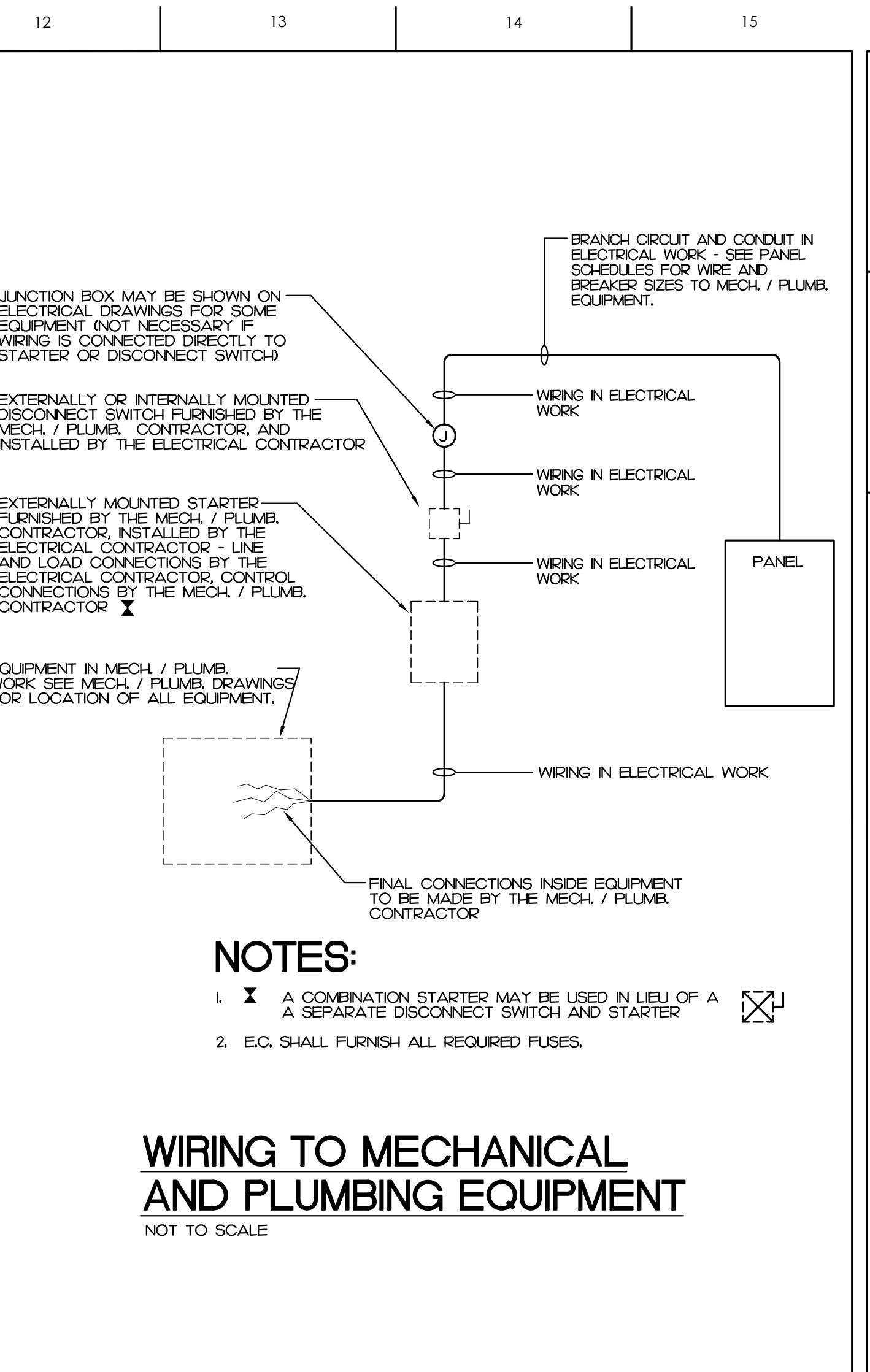
SYMBOL	DESCRIPTION	REMARKS
	2 X 4 LAY-IN FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	WALL SCONCE LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LINEAR FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	RECESSED CAN LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LINEAR SUSPENDED PENDANT - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	DECORATIVE LED PENDANT - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	DECORATIVE LED PENDANT - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	DECORATIVE LED PENDANT - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXTERIOR WALL LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXTERIOR SURFACE LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	POLE MOUNT FIXTURE WITH 1 LUMINAIRES - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	POLE MOUNT FIXTURE WITH 2 LUMINAIRES - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	EMERGENCY LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	SPECIAL SIGN - CONNECT UNSWITCHED PROVIDE WITH TEXT PER ARCHITECT INSTRUCTION	SEE FIXTURE SCHED.
	SINGLE POLE TOGGLE SWITCH MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	HUBBELL I221-TR NPJ COVER PLATE
	SMART SWITCH SINGLE FLUCTON MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	TOUCHE+ SS-SF-WHT
	SMART SWITCH 2-BUTTON ON (RAISED) / OFF (LOWER) MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	TOUCHE+ SS-2B-WHT
	OCCUPANCY SWITCH DUAL TECHNOLOGY 0-10V DIMMING MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	TOUCHE+ SW-O-D-DM-WHT-S2
	OCCUPANCY SWITCH DUAL TECHNOLOGY MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	TOUCHE+ SW-O-D-WHT-S2
	INTERVAL TIMER SWITCH LINE VOLTAGE, 60 MINUTE MAXIMUM MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	TOUCHE+ SWX-843-60M-XX
	COLOR MINI TOUCH-SCREEN WALL STATION MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	TOUCHE+ WS-C-MINI
	4.3" COLOR TOUCH-SCREEN WALL STATION MOUNT 42" AFF. UNLESS NOTED OTHERWISE.	TOUCHE+ WS-TS-C-WHT
	COMMUNICATION INTERFACE - RS-232	TOUCHE+ CHRS232
	DIGITAL INPUT PARTITION SENSOR	TOUCHE+ DIPS
	ROOM MANAGER - (2) 0-10V CHANNELS (2) BRANCH PORTS (2) SMART PORTS (2) DIGITAL INPUT PORTS (2) DIGITAL OUTPUT PORTS	TOUCHE+ RM
	SMART EMERGENCY SHUNT - DIMMING MODULE - 0-10V DIMMING	TOUCHE+ SES-D00
	SMART LOAD CONTROL - DIMMING MODULE - 0-10V DIMMING	TOUCHE+ SLC-D00
	SMART SENSOR DUAL TECHNOLOGY, LOW HEIGHT, FLUSH MOUNT	TOUCHE+ SMAOS-D-360-L-F-W
	SMART PACK	TOUCHE+ SP
	SMART TIME CLOCK WITH PHOTOCELL FIELD COORDINATE PHOTOCELL & GPS ANTENNA LOCATION WITH ARCHITECT	TOUCHE+ STC-PC
	EMERGENCY POWER CONTROL DEVICE - UL924	SENSORWORX+ SWX-EPC-2-A-D
	SINGLE CHANNEL, ELV DIMMING PACK - 5A	TOUCHE+ DP-XS-010-120
	SIMPLYSNAP ON SITE CONTROLLER	SYNAPSE+ SS450-02
	SPECIFICATION GRADE SIMPLEX RECEPTACLE MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL HBL5361 WITH NPJ7 COVER PLATE
	SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL HBL5362-TR NPJ8 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT GFCI RECEPTACLE MOUNT 16" AFF. UNLESS NOTED OTHERWISE.	HUBBELL GFTRS120-TR NPJ26 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT AND GFCI DUPLEX RECEPTACLE WITH IN-USE WEATHER PROOF COVER. MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL GFTWRS120-TR WP26M COVER PLATE
	SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL HBL5362-TR NPJ8 COVER PLATE
	SPECIFICATION GRADE DUPLEX TAMPER RESISTANT RECEPTACLE MOUNT 4" ABOVE COUNTER/BACKSPLASH	HUBBELL HBL5363-TR NPJ8 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT GFCI RECEPTACLE MOUNT 4" ABOVE COUNTER/BACKSPLASH	HUBBELL GFTRS120-TR NPJ26 COVER PLATE
	SPECIFICATION GRADE QUAD TAMPER RESISTANT RECEPTACLE MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL HBL5365-TR NPJ82 COVER PLATE
	POWER RECEPTACLE WITH GROUND, 'XX' DESIGNATES TYPE OR RATING. FIELD VERIFY NUMBER OF POLE AND NEUTRAL MOUNT 16" AFF. UNLESS OTHERWISE NOTED.	HUBBELL TO MATCH EQUIPMENT
	2 GANG ROUND RECESSED CONCRETE FLOOR BOX WITH FLAP COVER. 1 GANG WITH DUPLEX TAMPER RESISTANT RECEPTACLE. 1 GANG FOR COMMUNICATION OUTLETS BY OTHERS. 1 HUB FOR POWER, 1 1/2" HUB FOR DATA. PROVIDE COVER TO MATCH FLOOR TYPE PER ARCHITECT INSTRUCTION CUT AND PATCH FLOOR AS REQUIRED.	HUBBELL BOX+ SF8P COVER+ SICF+ PLATES+ SSPDUSL REC+ 5362TR+
	4" 2 GANG ROUND FIRE-RATED POKE-THRU WITH FLAP COVER. 1 GANG WITH DUPLEX TAMPER RESISTANT RECEPTACLE. 1 GANG FOR COMMUNICATION OUTLETS BY OTHERS. 3/4" STEM FOR POWER, 1 1/2" STEM FOR DATA. PROVIDE COVER TO MATCH FLOOR TYPE PER ARCHITECT INSTRUCTION CORE DRILL AS REQUIRED.	HUBBELL ASSEMBLY+ SPTAVFT COVER+ SICF+ PLATES+ SSPDUSL REC+ 5362TR+
	CEILING PANEL CABINET FAN FURNISHED AND INSTALLED BY M.C. WIRED BY E.C.	SEE MECH. PLAN.
	JUNCTION BOX SIZED PER NEC.	Ø SINGLE GANG BOXES
	JUNCTION BOXES FOR FURNITURE POWER AND DATA CONNECTIONS. PROVIDE 3/4" CONDUIT FOR POWER AND 1/4" CONDUIT FOR DATA TO ACCESSIBLE CEILING SPACE. FIELD COORDINATE INSTALLATION WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN. PROVIDE WHIPS AND COVER PLATES AS REQUIRED.	SQUARE D HEAVY DUTY
	DISCONNECT SWITCH SEE PLANS FOR SIZE AND TYPE	
	NEW CONCEALED WIRING	PER NEC.
	UNSWITCHED LIGHTING CONDUCTOR	PER NEC.
	HOME RUN TO PANEL BOARD NUMBERS OF ARROW INDICATE CIRCUITS	PER NEC.

SYMBOL	DESCRIPTION	REMARKS
	120/208V 3Ø, 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D NQI-LINE
	277/480V 3Ø, 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D NFA-LINE
	DRY TYPE DISTRIBUTION TRANSFORMER. SEE POWER RISER	SQUARE D
	DUPLEX COMMUNICATION OUTLET - MOUNT 16" AFF. UNLESS OTHERWISE NOTED STUB 3/4" CONDUIT TO ACCESSIBLE CEILING OR ATTIC SPACE. PROVIDE (2) RJ45 JACKS WITH TS688 TERMINATIONS TO CAT6 CABLES. HOME RUN CABLES TO PATCH PANEL IN DATA ROOM ON RESPECTIVE FLOOR.	2 - RJ45 WITH WHITE PLATE
	QUAD ENGINEERING TEST OUTLET - MOUNT 16" AFF. UNLESS OTHERWISE NOTED STUB 3/4" CONDUIT TO ACCESSIBLE CEILING OR ATTIC SPACE. PROVIDE (2) SINGLE MODE FIBER CABLES WITH SC-APC TERMINATIONS. PROVIDE (2) RJ45 JACKS WITH TS688 TERMINATIONS TO CAT6 CABLES. HOME RUN CABLES TO TESTING IS1 AND TERMINATE PER OWNER INSTRUCTION.	2 - SC-APC WITH WHITE PLATE
	COMMUNICATION BACKBOARD: "X" x 96" x 3/4" THICK FIREPROOFED PLYBOARD MOUNTED TO WALL PROVIDE GROUND BAR AND CONNECT #16 AWG GROUND IN 1/2" CONDUIT TO PANEL. "X" - SEE PLANS FOR BACKBOARD LENGTH. CONFIRM WITH OWNER.	
	CARD READER OUTLET - MOUNT 42" AFF. UNLESS OTHERWISE NOTED E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE 1/2" LOW VOLTAGE CABLE FROM CARD READER OUTLET TO SECURITY RACK AND 1/2" LOW VOLTAGE CABLE FROM CORRESPONDING DOOR HINGE TO SECURITY RACK IN MAIN DATA IZL. TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	PANIC BUTTON - MOUNT TO UNDERSIDE OF COUNTERTOP PER ARCHITECT. E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE 1/2" LOW VOLTAGE CABLE FROM PANIC BUTTON TO SECURITY RACK IN MAIN DATA IZL. TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	ALARM CARD READER - MOUNT 42" AFF. UNLESS OTHERWISE NOTED E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE 1/2" LOW VOLTAGE CABLE FROM ALARM CARD READER TO SECURITY RACK IN MAIN DATA IZL. TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	CCTV CAMERA OUTLET - FIELD COORDINATE INSTALLATION WITH OWNER E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE Ø CAT6 CABLE TO PATCH PANEL IN MAIN DATA IZL. TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	WIRELESS ACCESS POINT - PROVIDED AND INSTALLED BY OWNER AT CEILING E.C. TO PROVIDE Ø CAT6 CABLES WITH RJ45 CONNECTORS FROM ACCESS POINT TO PATCH PANEL IN DATA ROOM ON RESPECTIVE FLOOR. TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	MOTION DETECTOR. FIELD COORDINATE MOUNTING HEIGHT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE 1/2" LOW VOLTAGE CABLE FROM MOTION SENSOR TO SECURITY RACK IN MAIN DATA IZL. TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	PAGING SPEAKER, CEILING MOUNTED. PROVIDED AND INSTALLED BY OWNER E.C. TO PROVIDE Ø CAT6 CABLE FROM PAGING SPEAKER TO PATCH PANEL IN MAIN DATA IZL. TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	PAGING SPEAKER, WALL MOUNTED. PROVIDED AND INSTALLED BY OWNER E.C. TO PROVIDE Ø CAT6 CABLE FROM PAGING SPEAKER TO PATCH PANEL IN MAIN DATA IZL. TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	DOOR CONTACTS - PROVIDED AND INSTALLED BY OWNER AT DOOR FRAME. E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE 1/2" LOW VOLTAGE CABLE FROM DOOR CONTACT TO SECURITY RACK IN MAIN DATA IZL. TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	DOOR RELEASE - INSTALL OUTLET AT COUNTERTOP PER ARCHITECT. E.C. TO PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. PROVIDE 1/2" LOW VOLTAGE CABLE FROM DOOR RELEASE BUTTON TO SECURITY RACK IN MAIN DATA IZL. TERMINATE PER OWNER INSTRUCTION.	DEVICE BY OTHERS
	LEVEL 2 EV CHARGER - BOLLARD TYPE E.C. TO PROVIDE MOUNTING KIT AS REQUIRED. INSTALL PER MANUFACTURER. PROVIDE BOLLARDS PER 2018 NFPA SECTION 312 AS REQUIRED.	CHARGEPOINT+ CT40R-GW
	AREA OF RESOLVE ASSISTANCE MASTER CALL PANEL FLUSH MOUNT. SEE A165/2 FOR DETAILS	
	AREA OF RESOLVE ASSISTANCE REMOTE CALL PANEL FLUSH MOUNT. SEE A165/2 FOR DETAILS	
	AREA OF RESOLVE ASSISTANCE RELAY CARD CABINET SEE A165/2 FOR DETAILS	
	AREA OF RESOLVE ASSISTANCE BATTERY CABINET SEE A165/2 FOR DETAILS	
	A.F.C. ABOVE FINISHED CEILING	
	A.F.F. ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	
	B.F.F. BELOW FINISHED FLOOR	
	B.F.G. BELOW FINISHED GRADE	

NOTE:
1. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCHES, RECEPTABLES, AND WALL PLATES TO ARCHITECT PRIOR TO PURCHASING ANY.

GENERAL NOTES

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT. PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
- USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
- ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
- ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
- EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTABLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS. SEE DETAILS FOR CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS.
- PENETRATION:**
 - WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.
 - WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
- ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS.
- AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES. ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THIN-WALL WIRE. ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. ONLY THIN-WALL WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
- MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
- ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE ACCEPTABLE WIRING METHODS SUBJECT TO THE FOLLOWING RESTRICTIONS:
 - SEE NEC 320 AND 330 FOR RESTRICTIONS.
 - PENETRATIONS OF RATED WALLS SHALL BE IN ACCORDANCE WITH APPROVED UL PENETRATION METHODS.
 - CABLE SHALL NOT BE USED FOR HOME RUN TO PANEL BOARD.
 - CABLE SHALL ONLY BE INSTALLED IN CONCEALED SPACE AND FURRED AREAS. MAX. LENGTH OF EACH SECTION IN ACCESSIBLE CONCEALED SPACES SHALL NOT EXCEED 10 FT.
 - WHERE REQUIRED BY NEC 317.3, CABLE SHALL BE LISTED FOR THE USE.
- THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
- WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY ARE SEPARATED BY A MINIMUM OF 24".
- ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.
- ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
- BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL WHEN OUTLETS ARE INDICATED ON THESE WALLS. FIELD COORDINATE CONDUIT AND BOX INSTALLATION.
- FOR ALL RECEPTABLES LOCATED ABOVE COUNTER TOP, MOUNTING HEIGHT SHALL COMPLY WITH ANSI A171 SECTION 308. E.C. SHALL FIELD VERIFY CASEWORK DETAIL WITH ARCHITECT PRIOR TO ROUGH-IN.
- ELECTRICAL IDENTIFICATION**
 - FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANEL BOARDS, TRANSFORMERS, SWITCH-BOARDS, MOTOR CONTROL CENTERS AND OTHER ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT FOR IDENTIFICATION.
 - FURNISH AND INSTALL SELF-ADHESIVE PLASTIC TAPE FOR ALL RECEPTACLE AND WALL SWITCH COVER PLATES INDICATING CIRCUIT NUMBERS.
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND ELECTRICAL SERVICE WITH THE LOCAL UTILITY. THE OWNER SHALL PAY ALL CHARGES FOR THE INSTALLATION OF THE NEW UNDERGROUND UTILITY SERVICE.
- THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE LOCATION OF HIS TELECOM CONDUIT STUB OUTS WITH THE LOCAL SERVICE PROVIDER PRIOR TO HIS INSTALLING ANY CONDUITS.
- UNDERGROUND RACEWAY:**
 - RACEWAYS RUN EXTERNAL TO BUILDING FOUNDATION WALLS, WITH THE EXCEPTION OF BRANCH CIRCUIT RACEWAYS, SHALL BE ENCASED WITH A MINIMUM OF THREE (3) INCHES OF CONCRETE ON ALL SIDES.
 - ENCASED RACEWAYS MUST HAVE A MINIMUM COVER OF EIGHTEEN (18) INCHES, EXCEPT FOR RACEWAYS CONTAINING CIRCUITS WITH VOLTAGES ABOVE 600V, WHICH MUST HAVE A MINIMUM COVER OF THIRTY (30) INCHES.
 - ENCASED RACEWAYS SHALL BE OF A TYPE APPROVED BY THE NEC AS "SUITABLE FOR CONCRETE ENCASEMENT".
 - BRANCH CIRCUIT RACEWAYS RUN UNDERGROUND EXTERNAL TO BUILDING FOUNDATION WALLS SHALL BE RUN IN RACEWAYS INSTALLED IN ACCORDANCE WITH THE NEC, AND SHALL BE OF A TYPE APPROVED BY THE NEC AS "SUITABLE FOR DIRECT BURIAL." MINIMUM RACEWAY SIZE SHALL BE 1".
 - ALL UNDERGROUND RACEWAYS SHALL BE IDENTIFIED BY UNDERGROUND LINE MARKING TAPE LOCATED DIRECTLY ABOVE THE RACEWAY AT 6 TO 8 INCHES BELOW FINISHED GRADE. TAPE SHALL BE PERMANENT, BRIGHT-COLORED, CONTINUOUS PRINTED, PLASTIC TAPE COMPOUNDED FOR DIRECT BURIAL NOT LESS THAN 6 INCHES WIDE AND 4 MILS THICK. PRINTED LEGEND SHALL BE INDICATIVE OF GENERAL TYPE UNDERGROUND LINE BELOW.
 - RACEWAYS RUN UNDERGROUND INTERNAL TO BUILDING FOUNDATION WALLS SHALL BE OF A TYPE AND INSTALLED BY A METHOD APPROVED BY THE NEC.
 - WHERE UNDERGROUND RACEWAYS ARE REQUIRED TO TURN UP INTO CABINETS, EQUIPMENT, ETC., AND ON TO POLES, THE ELBOW REQUIRED AND THE STUB-UP OUT OF THE SLAB OR FLOOR SHALL BE OF RIGID STEEL.
 - THE RACEWAY SYSTEM SHALL NOT BE RELIED ON FOR GROUNDING CONTINUITY.
 - WHERE PASSING THROUGH A "BELOW GRADE" WALL FROM A CONDITIONED INTERIOR BUILDING SPACE, RACEWAYS SHALL BE SEALED UTILIZING FITTINGS SIMILAR AND EQUAL TO OZ/SEDNEY TYPE "SK" THRU-WALL FITTING WITH FEMM MEMBRANE CLAMP ADAPTER IF REQUIRED.
- SEE SPECIFICATIONS FOR ADDITIONAL DETAIL.



NOTES:

- A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER
- E.C. SHALL FURNISH ALL REQUIRED FUSES.

WIRING TO MECHANICAL AND PLUMBING EQUIPMENT

NOT TO SCALE

2018 NORTH CAROLINA ENERGY CODE

ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE - PRESCRIPTIVE

LAMP TYPE REQUIRED	LIGHTING SCHEDULE			
	FLUORESCENT T8/T5	LED	CFL	INCAN
NUMBER OF LAMPS	N/A	SEE	N/A	N/A
BALLAST TYPE USED	N/A	FIXTURE	N/A	N/A
NUMBER OF BALLASTS	N/A	SCHEDULE	N/A	N/A
TOTAL WATTAGE PER FIXTURE	N/A		N/A	N/A

	SPECIFIED	ALLOWED BY CODE
INTERIOR WATTAGE		
OFFICE		28078
TOTAL	1694	25269 **
EXTERIOR WATTAGE		
ALLOWANCE		750
TRADABLE		7793
NONTRADABLE		400
TOTAL	2555	8943

- NOTES:**
- ** PER SECTION C406.3, THE WHOLE AREA ALLOWED BY CODE IS REQUIRED TO BE 10% LOWER THAN THOSE CALCULATED PER SECTION C403.4.2.
 - VALUE CALCULATE PER SECTION C405.4.2: 28078 WATTS
 - VALUE PER SECTION C406.3: 25269 WATTS
 - ALL EXTERIOR LIGHTS:
 - CONTROLLED BY PHOTOCELL THAT WILL NOT INTENDED TO BE ON FOR 24 HOUR OPERATION.

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SIGNED: _____
NAME: MATTHEW C. BRILEY, P.E.
TITLE: ENGINEER

3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
PH: (919) 571-8181
1605 ST. JAMES PLACE
KINSTON, NC 28504
(252) 527-9336

KEY PLAN

NO	REVISION	DATE

J K F
ARCHITECTURE

615 LYNHOLE CL. SUITE F, GREENVILLE, NC 27858 252-355-1068

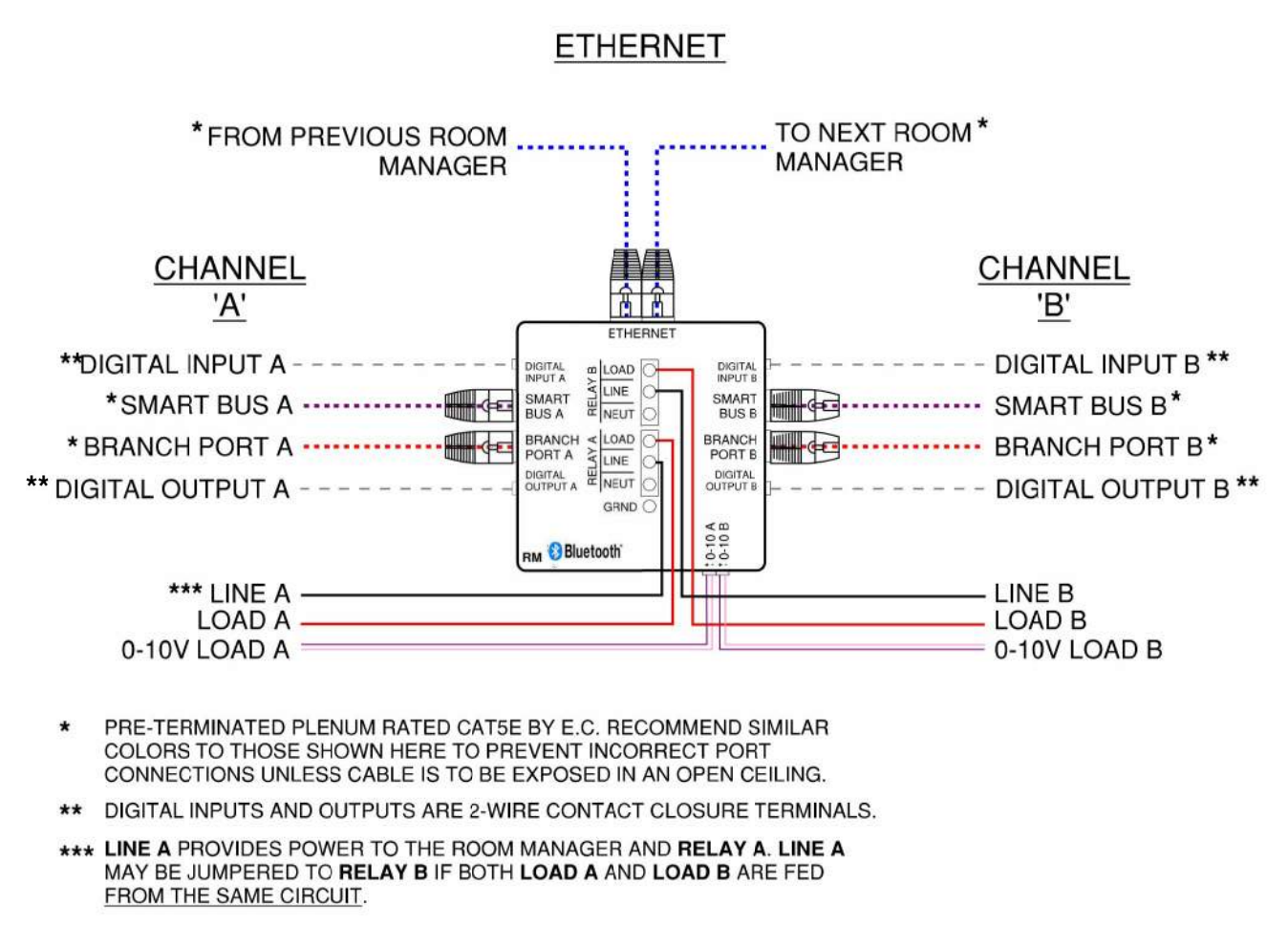
STAR COMMUNICATIONS NEW HEADQUARTERS

CLINTON, NC

OFFICE BUILDING LEGEND, NOTES, DETAILS, AND FIXTURE SCHEDULE

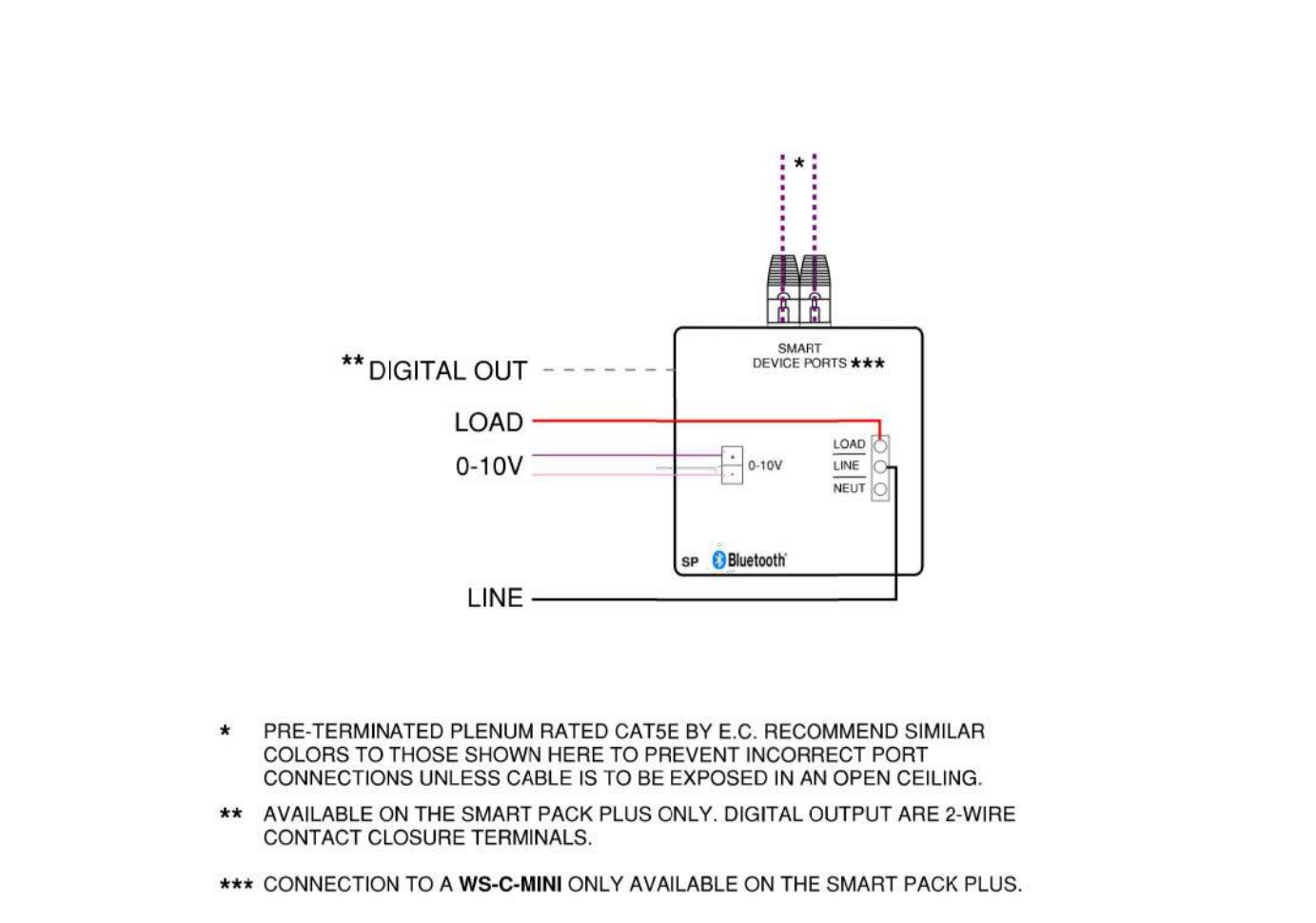
SCALE	SEE PLANS	DRAWING NO.
DRAWN	MCB	E5.1
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

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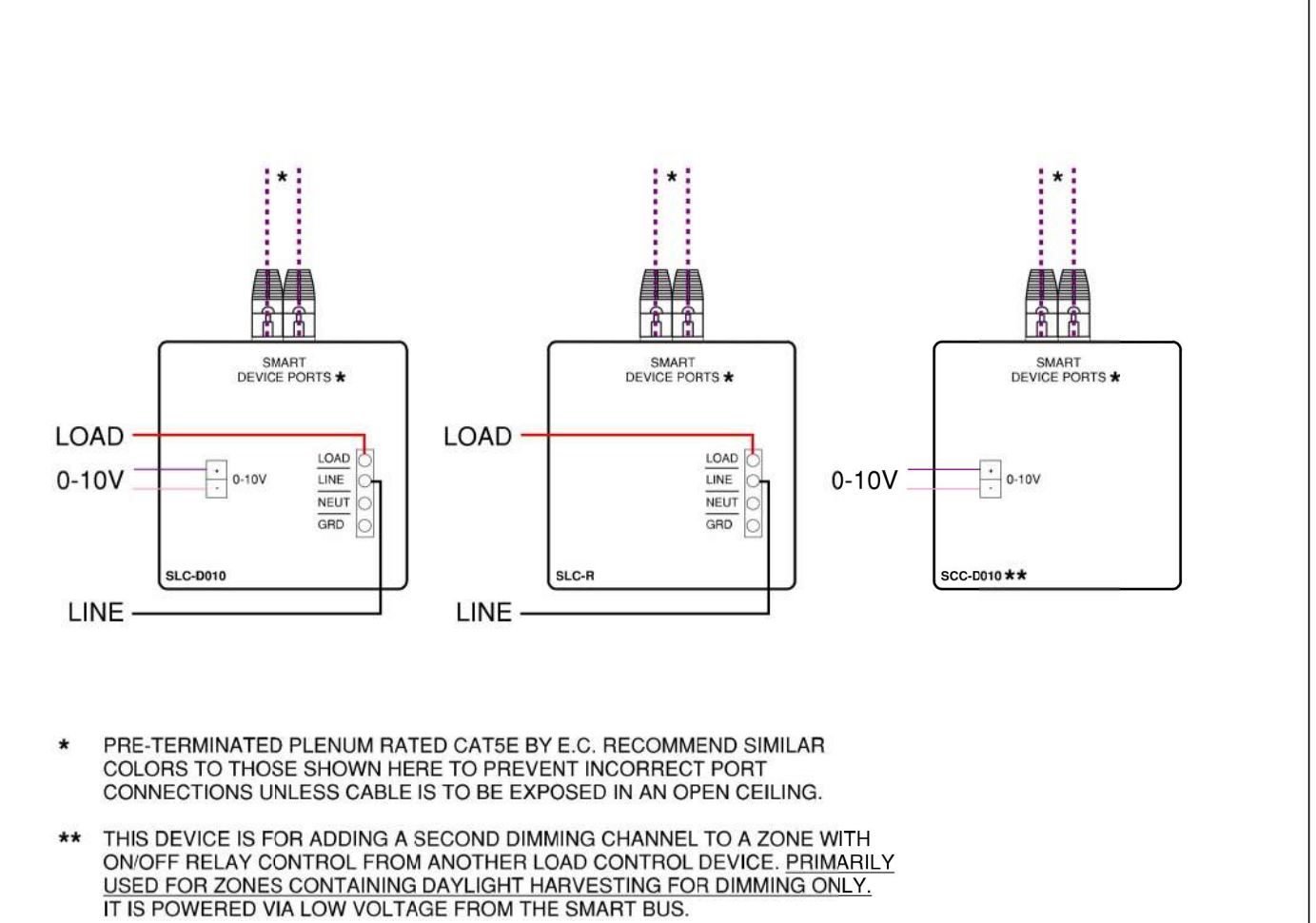
ROOM MANAGER WIRING DETAIL (J4)

NOT TO SCALE



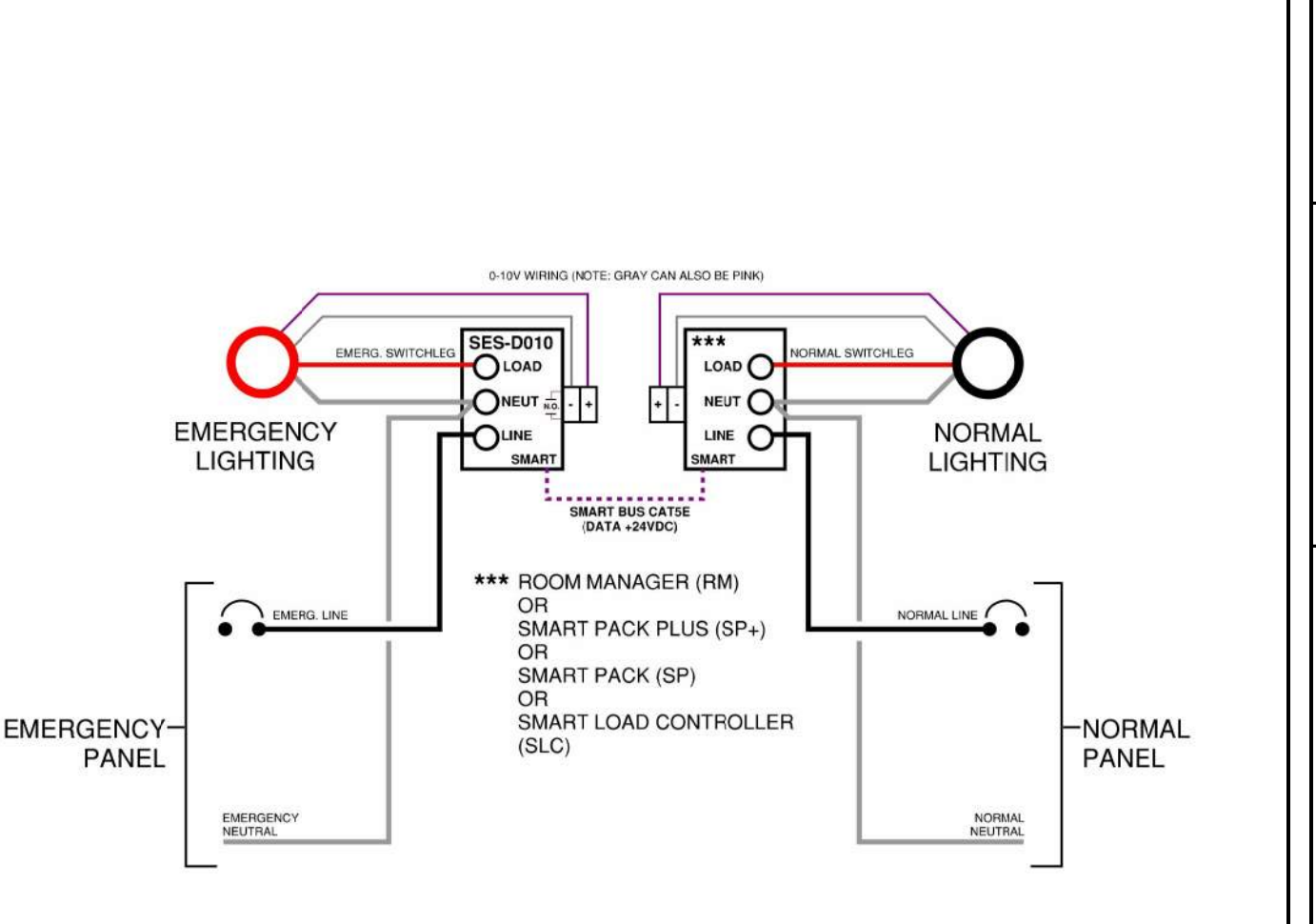
SMART PACK (PLUS) WIRING DETAIL (J8)

NOT TO SCALE



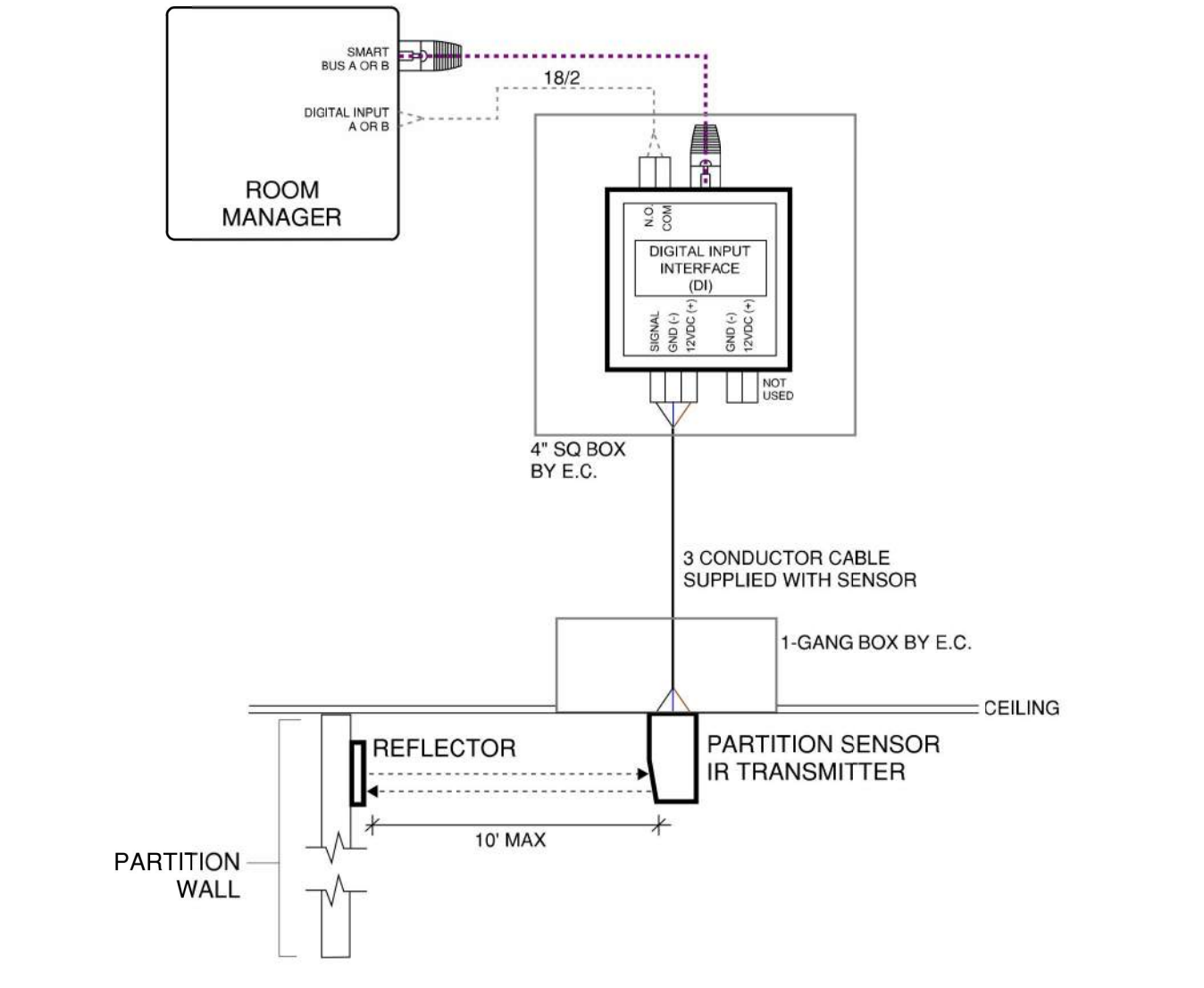
SMART LOAD CONTROLLER EXPANSION MODULE WIRING DETAIL (J12)

NOT TO SCALE



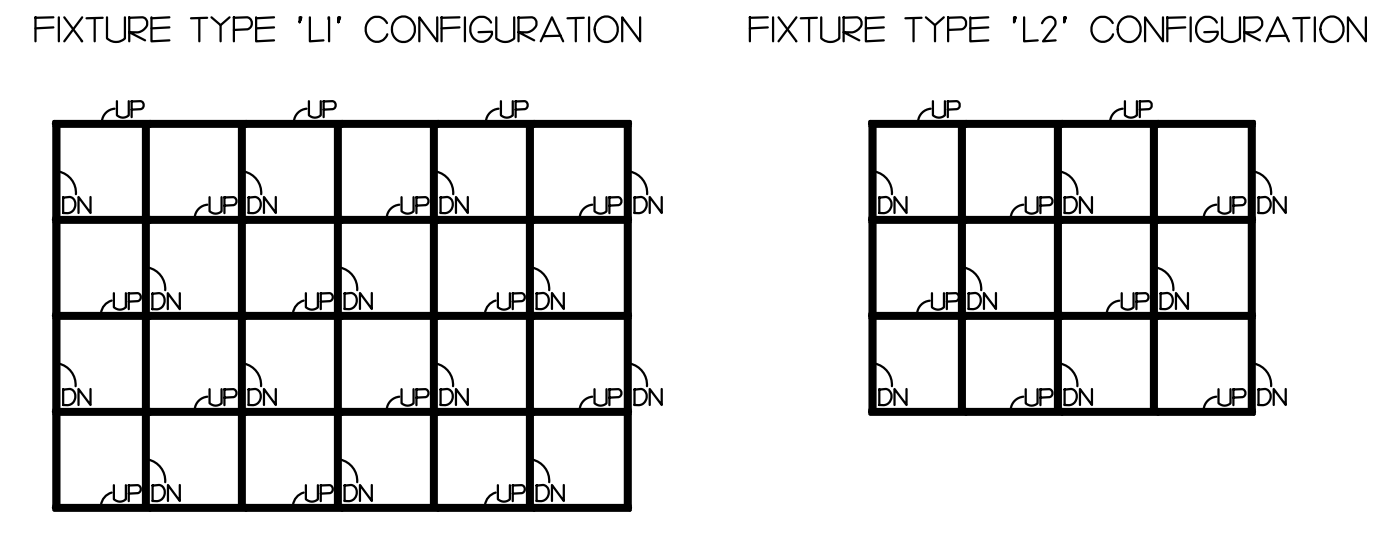
EMERGENCY SHUNT WIRING DETAIL (J15)

NOT TO SCALE



PARTITION SENSOR WIRING DETAIL (E4)

NOT TO SCALE



NOTES:

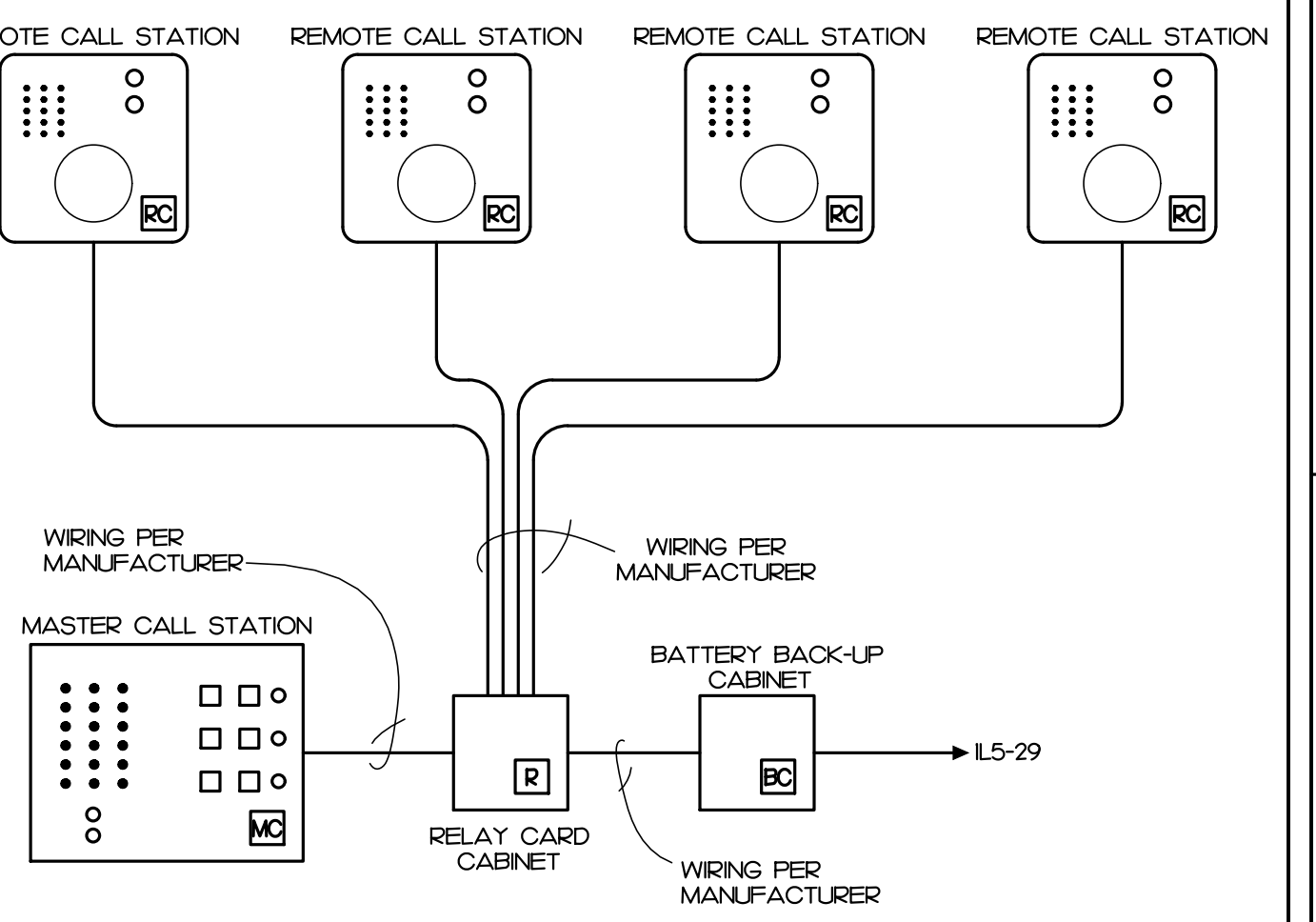
1. WHERE A 4" SECTION IS TAGGED AS 'UP', ORIENT FIXTURE TO PROVIDE UPLIGHT.

2. WHERE A 4" SECTION IS TAGGED AS 'DN', ORIENT FIXTURE TO PROVIDE DOWNLIGHT.

3. WHERE A 4" SECTION IS NOT TAGGED, PROVIDE BLANK UNIT SECTION.

TYPE 'L' FIXTURE LAYOUTS (E8)

NOT TO SCALE



NOTES:

- SEE FLOOR PLANS FOR QUANTITY AND LOCATION OF ALL EQUIPMENT.
- ALL WIRING SHALL BE PER MANUFACTURERS SPECIFICATIONS.
- THE SYSTEM SHALL COMPLY WITH SECTIONS 4.3.1.4 AND 4.3.1.5 OF THE AMERICANS WITH DISABILITIES ACT.
- ALL WIRING SHALL BE IN CONDUIT.
- AREA OF RESCUE ASSISTANCE SYSTEM SHALL BE UL LISTED FOR USE AS AN AREA OF RESCUE ASSISTANCE SYSTEM.
- AREA OF RESCUE ASSISTANCE SYSTEM INSTALLATION SHALL BE BY A LICENSED CONTRACTOR.
- SYSTEM WIRING SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AS ESTABLISHED BY EIA AND NEC. WIRING SHALL MEET ALL ESTABLISHED STATE AND LOCAL ELECTRICAL CODES. ALL WIRING SHALL TEST FREE FROM SHORTS AND GROUNDED AS SPECIFIED.
- MASTER STATION AND AREA STATION MOUNTING SHALL BE IN ACCORDANCE WITH ADA RECOMMENDATIONS AND SPECIFICATIONS.
- AN ILLUMINATED SIGN DESIGNATED AREA RESCUE STATION SHALL BE INSTALLED AT ABOVE EACH LOCATION WITH MASTER OR REMOTE STATION AS SHOWN IN THE DRAWINGS.
- MANUFACTURER CONTACT INFORMATION: HOUSING DEVICES, INC. 407 R. MYSTIC AVE. MEDFORD, MA 02855 TEL. (800) 392-5200
- THE SYSTEM SHALL BE AN "ADA-100-ECS" BY HOUSING DEVICES, INC. OR EQUAL.
- ALL PARTS AND ACCESSORIES SHALL BE MANUFACTURED OR SPECIFIED BY HOUSING DEVICES, INC. TO BE USED WITH "ADA-100-ECS" SYSTEM. EQUIVALENT SYSTEMS ARE ACCEPTABLE.
- PROVIDE WITH CAT6 CABLE ROUTED FROM MASTER CALL PANEL TO COMMUNICATION RACK IN TO BE USED WITH "ADA-100-ECS" SYSTEM.

BRANCH DEVICES		SMART DEVICES	
SYM	PART #	SYM	PART #
WS-TS-C	4" COLOR TOUCH STATION	SMAOS-LF	LOW FLUSH
WS-C-MINI	MINI COLOR TOUCH STATION (BRANCH)	SMAOS-LS	LOW SURFACE
		SMAOS-HF	HIGH FLUSH
		SMAOS-HS	HIGH SURFACE
		SS-2B	2-BUTTON DIMMER
		SS-SF	SINGLE FUNCTION
		WS-C-MINI	MINI COLOR TOUCH STATION (SMART)
		SLC-R	SMART LOAD CONTROL - RELAY
		SLC-DD1C	SMART LOAD CONTROL - 0-10V
		SCC-DD10	SMART CHANNEL CONTROL - 0-10V
		SES-R	SMART EMERGENCY SHUNT - RELAY
		SES-DD10	SMART EMERGENCY SHUNT - 0-10V

DEVICE CONNECTIONS	PORT	# PORTS	MAX DEVICES CONNECTED	MAX CABLE LENGTH
RM TO RM	ETHERNET	2	UNLIMITED	320' DEVICE TO DEVICE
RM TO SLC-XX/SCC/SES/	SMART	2	14 TOTAL PER RM	500' TOTAL LENGTH
RM TO SP/SP+	N/A	N/A	NOT ALLOWED	NOT ALLOWED
RM TO ANY SMART DEVICE	SMART	2	10 PER PORT	500' TOTAL LENGTH
RM TO BRANCH DEVICE	BRANCH	2	8 PER PORT	1000' TOTAL LENGTH
SP/SP+ TO SLC-XX/SCC/SES	SMART	N/A	4 TOTAL PER SP+	500' TOTAL LENGTH
SP/SP+ TO ANY SMART DEVICE	SMART	2	10 PER PORT	500' TOTAL LENGTH
SP/SP+ TO SP/SP+	N/A	N/A	NOT ALLOWED	NOT ALLOWED
SLC-XX/SCC/SES/ TO ANY SMART DEVICE	SMART	2	10 PER PORT	500' TOTAL LENGTH

NOTE: ALL ETHERNET/SMART/BRANCH DEVICE TO DEVICE CONNECTIONS SHALL BE DAISY-CHAINED. NO OTHER CABLE TOPOLOGY IS ALLOWED.

CONNECTIVITY MATRIX

CONNECTIVITY MATRIX (A8)

NOT TO SCALE

TWO-WAY COMMUNICATION SYSTEM (A15)

NOT TO SCALE

ATLANTEC ENGINEERS, PA 2294
 322 BLUE RIDGE ROAD, SUITE 113
 RALEIGH, NC 27612
 PH: (919) 571-8811
 1505 ST. JAMES PLACE
 KINSTON, NC 28504
 (252) 527-3336

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER No. C-981

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER No. C-981

KEY PLAN



NO	REVISION	DATE

SEAL

J K F ARCHITECTURE

625 LYNHDALE CT. SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW HEADQUARTERS
 CLINTON, NC

DETAILS

SCALE	SEE PLANS	DRAWING NO.	E5.2
DRAWN	MCB		
CHECKED	MCB		
DATE	07-15-2023		
PROJECT NO.	2022-17		

LIGHT FIXTURE SCHEDULE

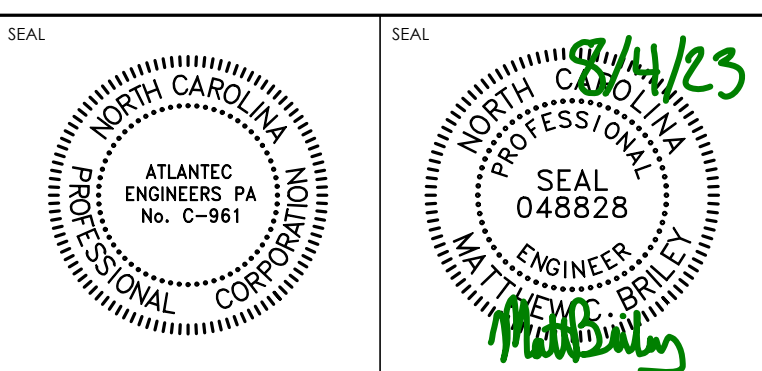
TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
AI	2x2 LAY-IN LED TROFFER 3000 LUMEN	ORACLE: Z2-0D-LED-3000L-DIM0-MVOLT-35K-85 OR EQUAL BY CORONET OR VISCOR	3000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 44 WATTS - 48 VA, 120-277V	
BI	8' LINEAR SUSPENDED LED FIXTURE DIRECT/INDIRECT 6400 LUMEN	LITECONTROL: SAE104-P-LPA-8'-8-SOF-CI-35K-080 -2D-DOHC-UNV-FAI OR EQUAL BY LUX OR MARK	6400 LUMEN LED, 3500K 0-10V DIMMING DRIVER 60 WATTS - 67 VA, 120-277V	
BIA	8' LINEAR SUSPENDED LED FIXTURE DIRECT/INDIRECT 8400 LUMEN	LITECONTROL: SAE104-P-LPA-8'-8-SOF-CI-35K-105-2D -DOHC-UNV-FAI OR EQUAL BY LUX OR MARK	8400 LUMEN LED, 3500K 0-10V DIMMING DRIVER 74 WATTS - 83 VA, 120-277V	
B2	6' LINEAR SUSPENDED LED FIXTURE DIRECT/INDIRECT 4800 LUMEN	LITECONTROL: SAE104-P-LPA-6'-4-SOF-CI-35K-080 -2D-DOHC-UNV-FAI OR EQUAL BY LUX OR MARK	4800 LUMEN LED, 3500K 0-10V DIMMING DRIVER 45 WATTS - 50 VA, 120-277V	
B2A	6' LINEAR SUSPENDED LED FIXTURE DIRECT/INDIRECT 6300 LUMEN	LITECONTROL: SAE104-P-LPA-6'-4-SOF-CI-35K-105-2D -DOHC-UNV-FAI OR EQUAL BY LUX OR MARK	6300 LUMEN LED, 3500K 0-10V DIMMING DRIVER 56 WATTS - 62 VA, 120-277V	
CI	6' LED CAN LIGHT 1200 LUMEN	ELITE: H46-LED-1200L-DIM0-MVOLT-35K-MD 90-H46-650I-CL-WH OR EQUAL BY LITHONIA OR GOTHAM	1200 LUMEN LED, 3500K 0-10V DIMMING DRIVER 10 WATTS - 11 VA, 120-277V	
C2	8' LED CAN LIGHT 3000 LUMEN	PRESOLITE: LBRP-MLS-L35K9 LBRP-8RD-T-D OR EQUAL BY ELITE OR GOTHAM	3000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 32 WATTS - 35 VA, 120-277V	WHERE FIXTURE 'C2' IS INSTALLED ON THE EXTERIOR, ORDER AT 3000K.
C3	PINHOLE LED CAN LIGHT 500 LUMEN	WAC: RIARPL-N-3500K PS-0600A-URI OR EQUAL BY ELITE OR GOTHAM	500 LUMEN LED, 3500K 0-10V DIMMING DRIVER 11 WATTS - 12 VA, 120-277V	PROVIDE POWER SUPPLIES AS REQUIRED, FIELD COORDINATE POWER SUPPLY LOCATION IN CONCEALED BUT ACCESSIBLE LOCATION.
F1	4' LINEAR WALL MOUNT LED FIXTURE 2200 LUMEN	VISA: CV1716-L35K14-MVOLT OR EQUAL BY CORONET OR VISCOR	2200 LUMEN LED, 3500K 0-10V DIMMING DRIVER 32 WATTS - 36 VA, 120-277V	
F2	3' LINEAR WALL MOUNT LED FIXTURE 500 LUMEN	VISA: CV1714-L35K14-MVOLT OR EQUAL BY CORONET OR VISCOR	500 LUMEN LED, 3500K 0-10V DIMMING DRIVER 21 WATTS - 23 VA, 120-277V	
F3	4' LINEAR WALL MOUNT LED COVE LIGHT 3850 LUMEN	THE LIGHTING QUOTIENT: S95-R04L-S-M-0-935-ZX OR EQUAL BY AIREY-THOMPSON OR FINNACLE	3850 LUMEN LED, 3500K 0-10V DIMMING DRIVER 27 WATTS - 30 VA, 120-277V	INSTALL AT COVE AT 16" AFF. FIELD COORDINATE INSTALLATION WITH ARCHITECT PRIOR TO ROUGH-IN.
G1	FLUSH MOUNT CANOPY LED FIXTURE 4000 LUMEN	CREE: CPY250-C-4L-30K8-F-UL-FM-HOV OR EQUAL BY ELITE OR LITHONIA	4000 LUMEN LED, 3000K 0-10V DIMMING DRIVER 29 WATTS - 32 VA, 120-277V	
K1	2' VAPOR TIGHT LED FIXTURE 3000 LUMEN	ORACLE: Z-0WVSHLED-3000L-DIM0-MVOLT-35K-85CRI OR EQUAL BY LITHONIA OR HUBBELL	3000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 19 WATTS - 21 VA, 120-277V	
L1	LINEAR LED INTERCONNECTING FIXTURES	ALW: RFD07-3500-0/10V/S OR EQUAL BY LUX OR XAL	79500 LUMEN LED, 3500K 0-10V DIMMING DRIVER 1044 WATTS - 1160 VA, 120-277V	SEE E8/E5.2 FOR CONFIGURATION DETAILS.
L2	LINEAR LED INTERCONNECTING FIXTURES	ALW: RFD07-3500-0/10V/S OR EQUAL BY LUX OR XAL	44000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 576 WATTS - 640 VA, 120-277V	SEE E8/E5.2 FOR CONFIGURATION DETAILS.
M1	DECORATIVE LED SCOFF	MODERN FORMS: WS-27610-35 OR EQUAL BY WAC OR STONE	161 LUMEN LED, 3500K 0-10V DIMMING DRIVER 19 WATTS - 21 VA, 120-277V	
P1	DECORATIVE LED PENDANT	WAC: PD-60964 OR EQUAL BY STONE OR XAL	3880 LUMEN LED, 3500K ELV DIMMING DRIVER 78 WATTS - 87 VA, 120-277V	
P2	DECORATIVE LED PENDANT	ZANEEN: L3650-SUS-SYS-30K-DR-DV-UNV (2) L380107-DV-35K-40 OR EQUAL BY CORONET OR XAL	1700 LUMEN LED, 3500K 0-10V DIMMING DRIVER 18 WATTS - 20 VA, 120-277V	
P3	DECORATIVE LED PENDANT	WAC: PD-83128 OR EQUAL BY STONE OR XAL	1686 LUMEN LED, 3500K 0-10V DIMMING DRIVER 47 WATTS - 52 VA, 120-277V	
S1	SINGLE AREA POLE LIGHT TYPE 3 NARROW DISTRIBUTION 7000 LUMEN	SELUX: AV6-R3N-LI-O-L105-30-30-UNV-DM -TLR POLE: AT74-24 OR EQUAL BY NLS OR LIGMAN	7000 LUMEN LED, 3000K ELECTRONIC DRIVER 72 WATTS - 80 VA, 120-277V	PROVIDE WITH POLE AND ACCESSORIES AS REQUIRED, INSTALL FIXTURE AT 24" A.F.G. PROVIDE WITH TL7 CONTROLLER.
S2	SINGLE AREA POLE LIGHT TYPE 3 WIDE DISTRIBUTION 9500 LUMEN	SELUX: AV6-R3W-LI-O-L105-30-30-UNV-DM -TLR POLE: AT74-24 OR EQUAL BY NLS OR LIGMAN	9500 LUMEN LED, 3000K ELECTRONIC DRIVER 108 WATTS - 120 VA, 120-277V	PROVIDE WITH POLE AND ACCESSORIES AS REQUIRED, INSTALL FIXTURE AT 24" A.F.G. PROVIDE WITH TL7 CONTROLLER.
S3	SINGLE AREA POLE LIGHT TYPE 3 WIDE DISTRIBUTION 7000 LUMEN	SELUX: AV6-R3W-LI-O-L700-30-30-UNV-DM -TLR POLE: AT74-24 OR EQUAL BY NLS OR LIGMAN	7000 LUMEN LED, 3000K ELECTRONIC DRIVER 72 WATTS - 80 VA, 120-277V	PROVIDE WITH POLE AND ACCESSORIES AS REQUIRED, INSTALL FIXTURE AT 24" A.F.G. PROVIDE WITH TL7 CONTROLLER.
S4	SINGLE AREA POLE LIGHT TYPE 3 NARROW DISTRIBUTION 9500 LUMEN	SELUX: AV6-R3N-LI-O-L105-30-30-UNV-DM -TLR POLE: AT74-24 OR EQUAL BY NLS OR LIGMAN	9500 LUMEN LED, 3000K ELECTRONIC DRIVER 108 WATTS - 120 VA, 120-277V	PROVIDE WITH POLE AND ACCESSORIES AS REQUIRED, INSTALL FIXTURE AT 24" A.F.G. PROVIDE WITH TL7 CONTROLLER.
S5	DOUBLE AREA POLE LIGHT TYPE 5 DISTRIBUTION 19000 LUMEN	SELUX: (2) AV6-R5-L2-O-L105-30-30-UNV-DM -TLR POLE: AT74-24 OR EQUAL BY NLS OR LIGMAN	19000 LUMEN LED, 3000K ELECTRONIC DRIVER 26 WATTS - 240 VA, 120-277V	PROVIDE WITH POLE AND ACCESSORIES AS REQUIRED, INSTALL FIXTURE AT 24" A.F.G. PROVIDE WITH TL7 CONTROLLERS.
UI	4' SUSPENDED LED STRIP LIGHT 4000 LUMEN	ORACLE: 4-0C4-LED-4000L-DIM0-MVOLT-35K-85-WH OR EQUAL BY LITHONIA OR HUBBELL	4000 LUMEN LED, 3500K 0-10V DIMMING DRIVER 36 WATTS - 40 VA, 120-277V	
WI	EXTERIOR WALL PACK 2500 LUMEN	BEACON: TRP-24L-25-3K8-4W-UNV OR EQUAL BY LITHONIA OR HUBBELL	2500 LUMEN LED, 3000K 0-10V DIMMING DRIVER 25 WATTS - 28 VA, 120-277V	
EG	EMERGENCY LIGHT WITH BATTERY BACKUP	LITHONIA: ELM2L-SDRT OR EQUAL BY DUAL-LITE OR ISOLITE	2 WATTS - 2 VA, 120-277V	
EX	EXIT LIGHT - 1 SIDED GREEN ON CLEAR AC ONLY	LITHONIA: EDGR-I-G OR EQUAL BY DUAL-LITE OR ISOLITE	5 WATTS - 5 VA, 120-277V	ADJUST PART NUMBER AND PROVIDE ACCESSORIES AS REQUIRED TO PROVIDE REQUIRED MOUNTING.
EX2	EXIT LIGHT - 2 SIDED GREEN ON MIRROR AC ONLY	LITHONIA: EDGR-2-GMR OR EQUAL BY DUAL-LITE OR ISOLITE	5 WATTS - 5 VA, 120-277V	ADJUST PART NUMBER AND PROVIDE ACCESSORIES AS REQUIRED TO PROVIDE REQUIRED MOUNTING.

NOTES:

1. SEE ARCHITECTURAL PLAN FOR MOUNTING LOCATION AND HEIGHT. FIELD COORDINATE MOUNTING HEIGHT WITH ARCHITECT IF NOT SHOWN ON ARCHITECTURAL PLAN.
2. E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR TO PURCHASE. FINISH COLOR/TRIM SUBJECT TO CHANGE PER ARCHITECT.
3. FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERING. ALL INTERIOR FIXTURES TO BE 3500K AND ALL EXTERIOR FIXTURES TO BE 5000K.
4. EQUAL FIXTURES ARE ACCEPTABLE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND ENGINEER.

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KEY PLAN

NO	REVISION	DATE

JKF

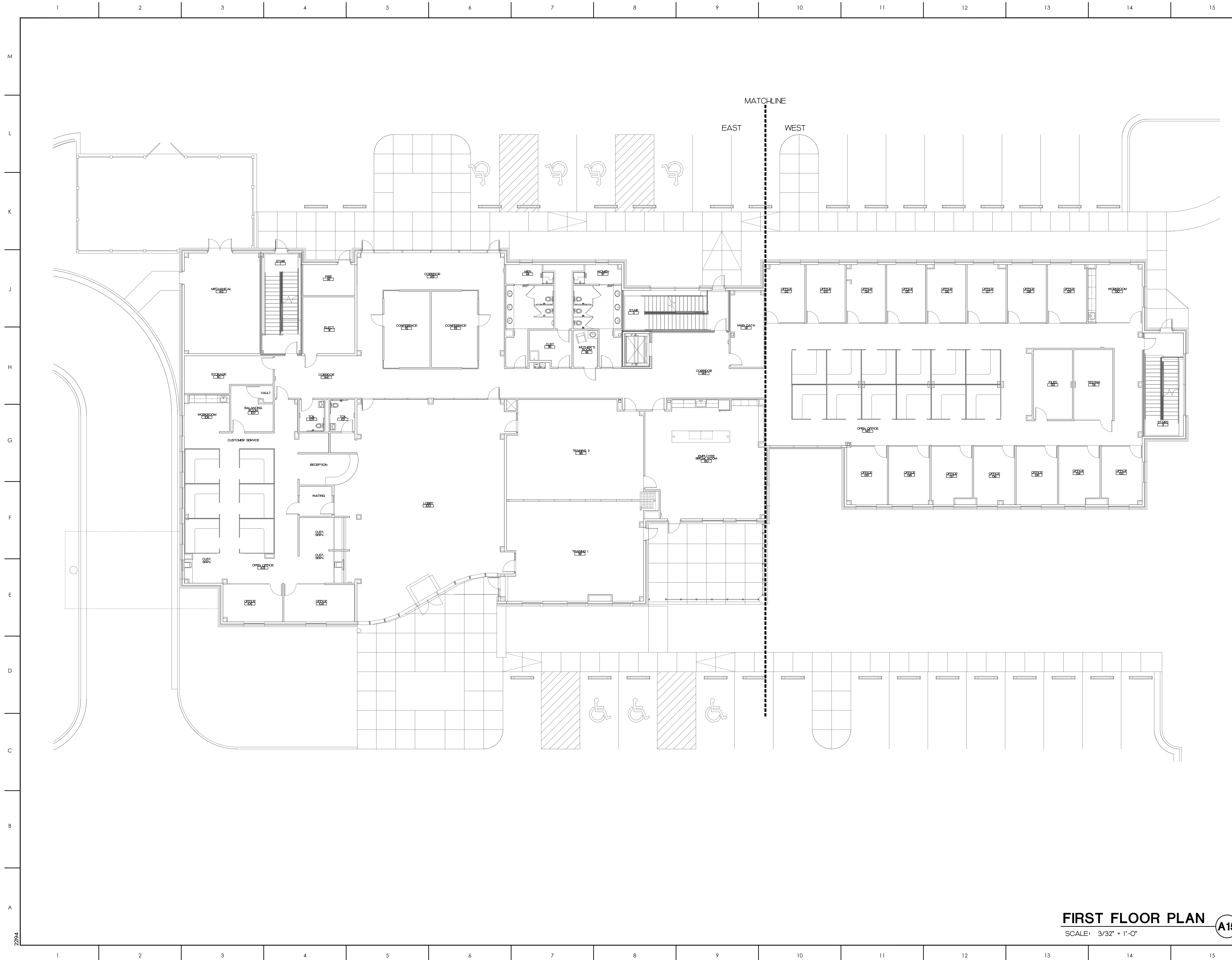
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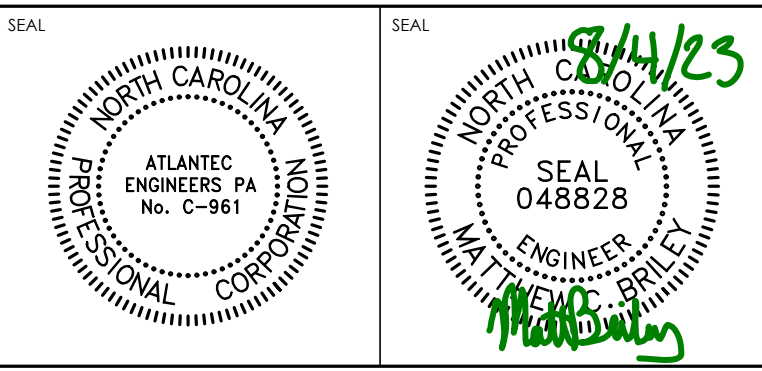
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CLINTON, NC

OFFICE BUILDING
FIXTURE SCHEDULE

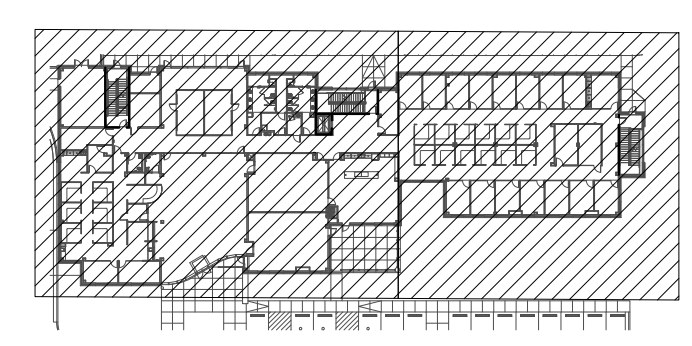
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SEE PLANS	E5.3	
DRAWN		MCB
CHECKED		MCB
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PROJECT NO.	2022-17	



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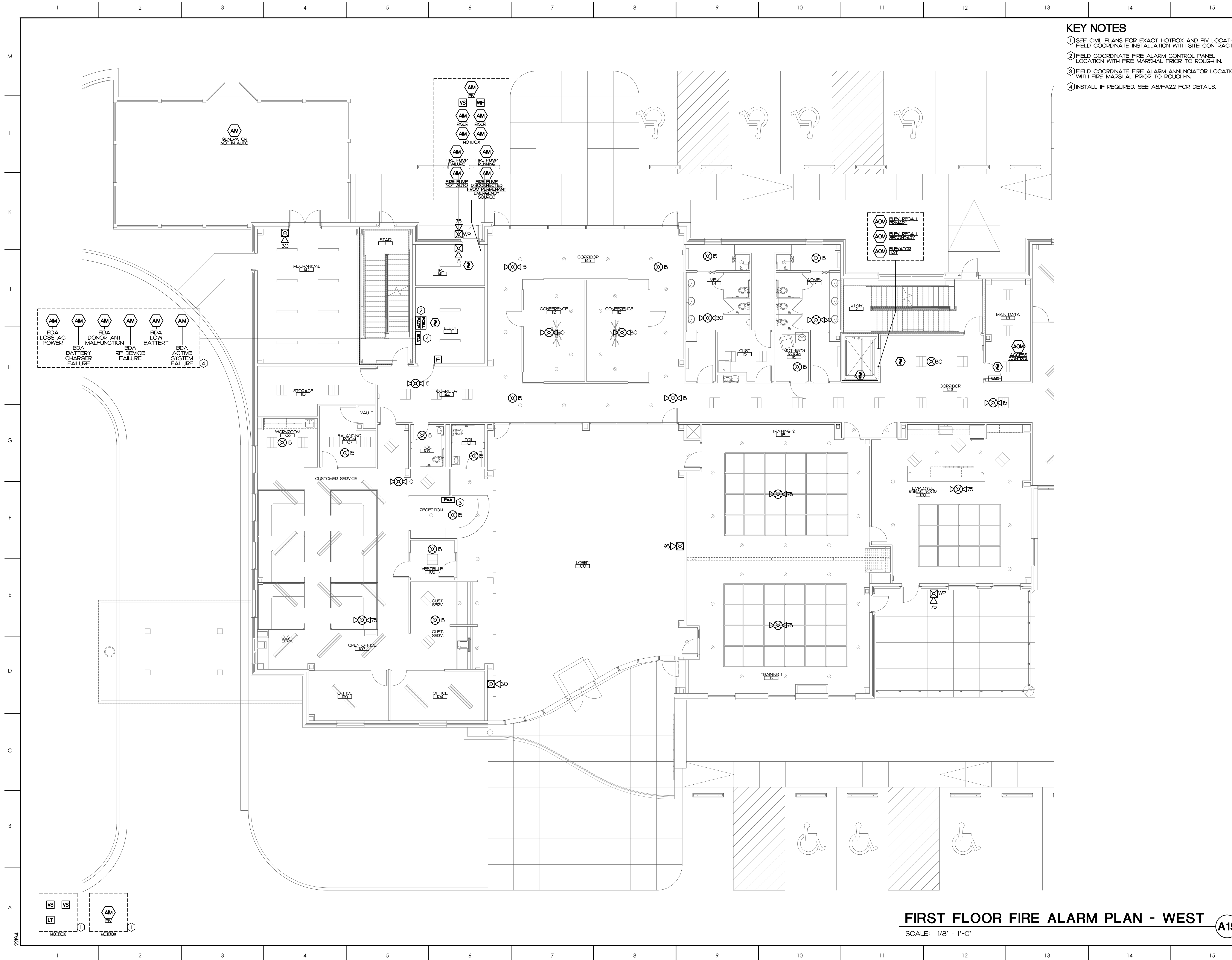
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 HEADQUARTERS
 CLINTON, NC

DRAWING TITLE
FIRST FLOOR PLAN

SCALE SEE PLANS	DRAWING NO. FA1.1
DRAWN MCB	
CHECKED MCB	
DATE 07-15-2023	
PROJECT NO. 2022-17	

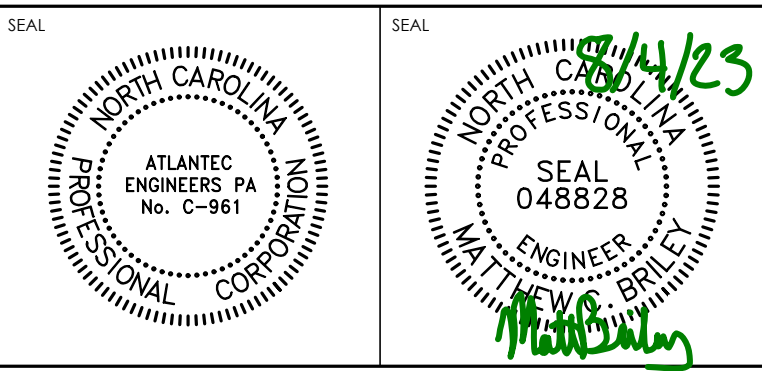
FIRST FLOOR PLAN (A15)
 SCALE: 3/32" = 1'-0"



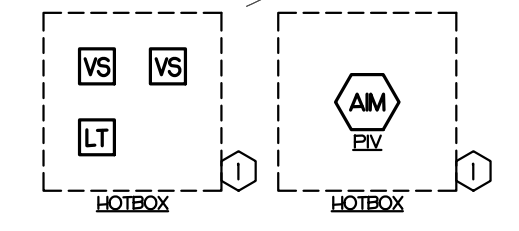
- KEY NOTES**
- SEE CIVIL PLANS FOR EXACT HOTBOX AND PIV LOCATIONS. FIELD COORDINATE INSTALLATION WITH SITE CONTRACTOR.
 - FIELD COORDINATE FIRE ALARM CONTROL PANEL LOCATION WITH FIRE MARSHAL PRIOR TO ROUGH-IN.
 - FIELD COORDINATE FIRE ALARM ANNUNCIATOR LOCATION WITH FIRE MARSHAL PRIOR TO ROUGH-IN.
 - INSTALL IF REQUIRED. SEE A8/FA22 FOR DETAILS.

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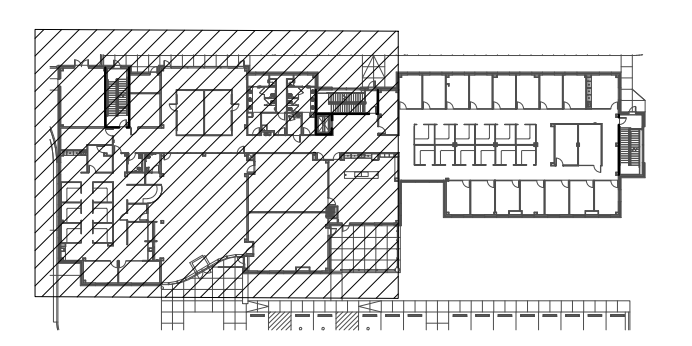
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- AM BDA LOSS AC POWER
- AM BDA BATTERY CHARGER FAILURE
- AM BDA DONOR ANT. MALFUNCTION
- AM BDA RF DEVICE FAILURE
- AM BDA LOW BATTERY
- AM BDA ACTIVE SYSTEM FAILURE



KEY PLAN



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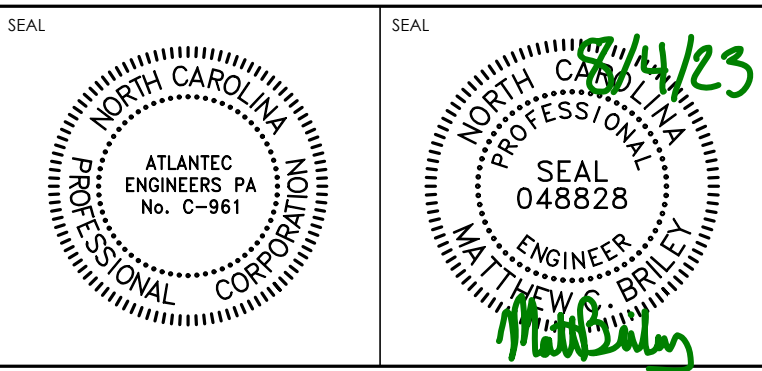
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FIRST FLOOR
FIRE ALARM PLAN - WEST

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DATE 07-15-2023	
PROJECT NO. 2022-17	

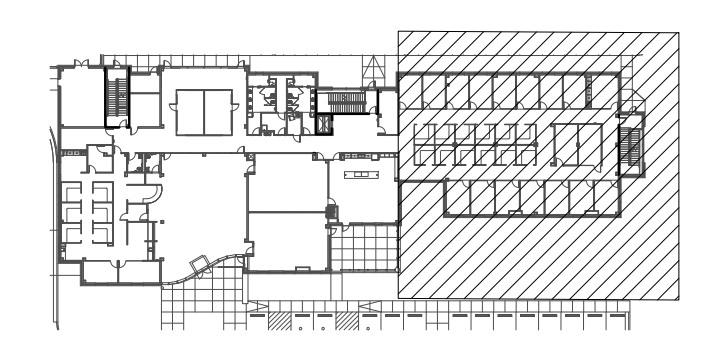
FIRST FLOOR FIRE ALARM PLAN - WEST (A15)
SCALE: 1/8" = 1'-0"



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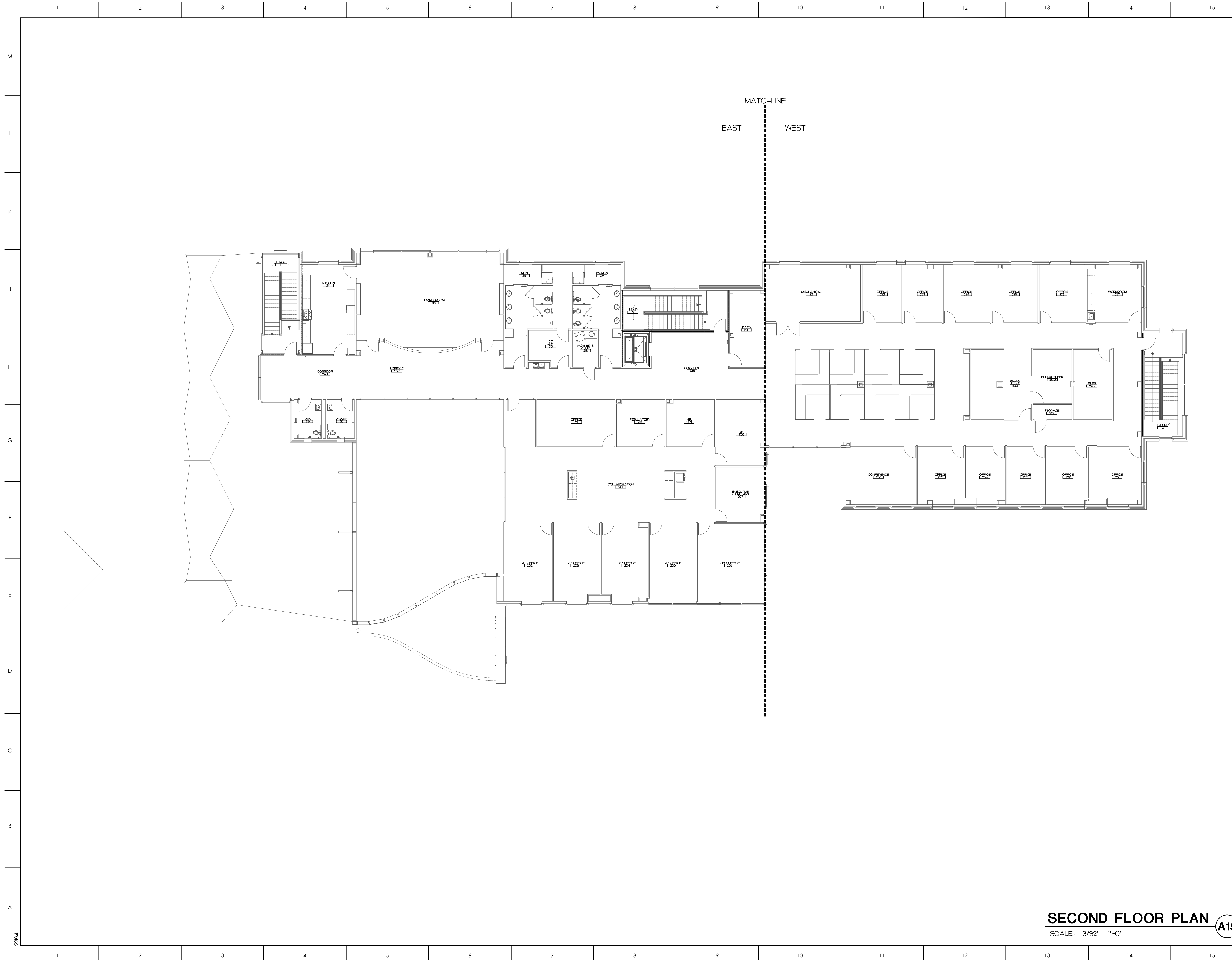
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 FIRST FLOOR
 FIRE ALARM PLAN - EAST

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CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

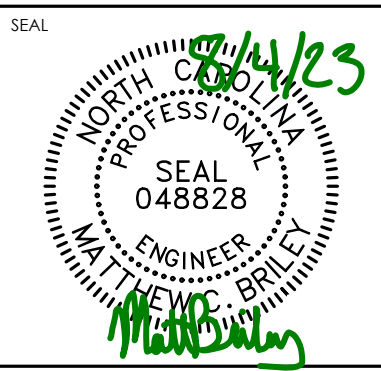
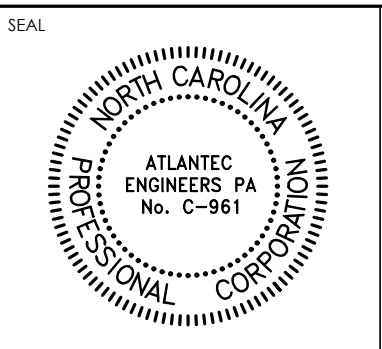
FIRST FLOOR FIRE ALARM PLAN - EAST

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

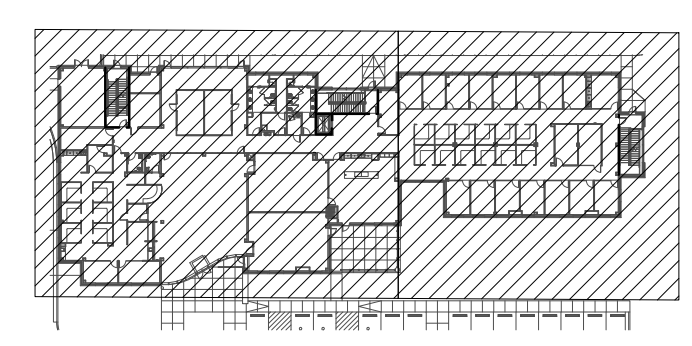
A15



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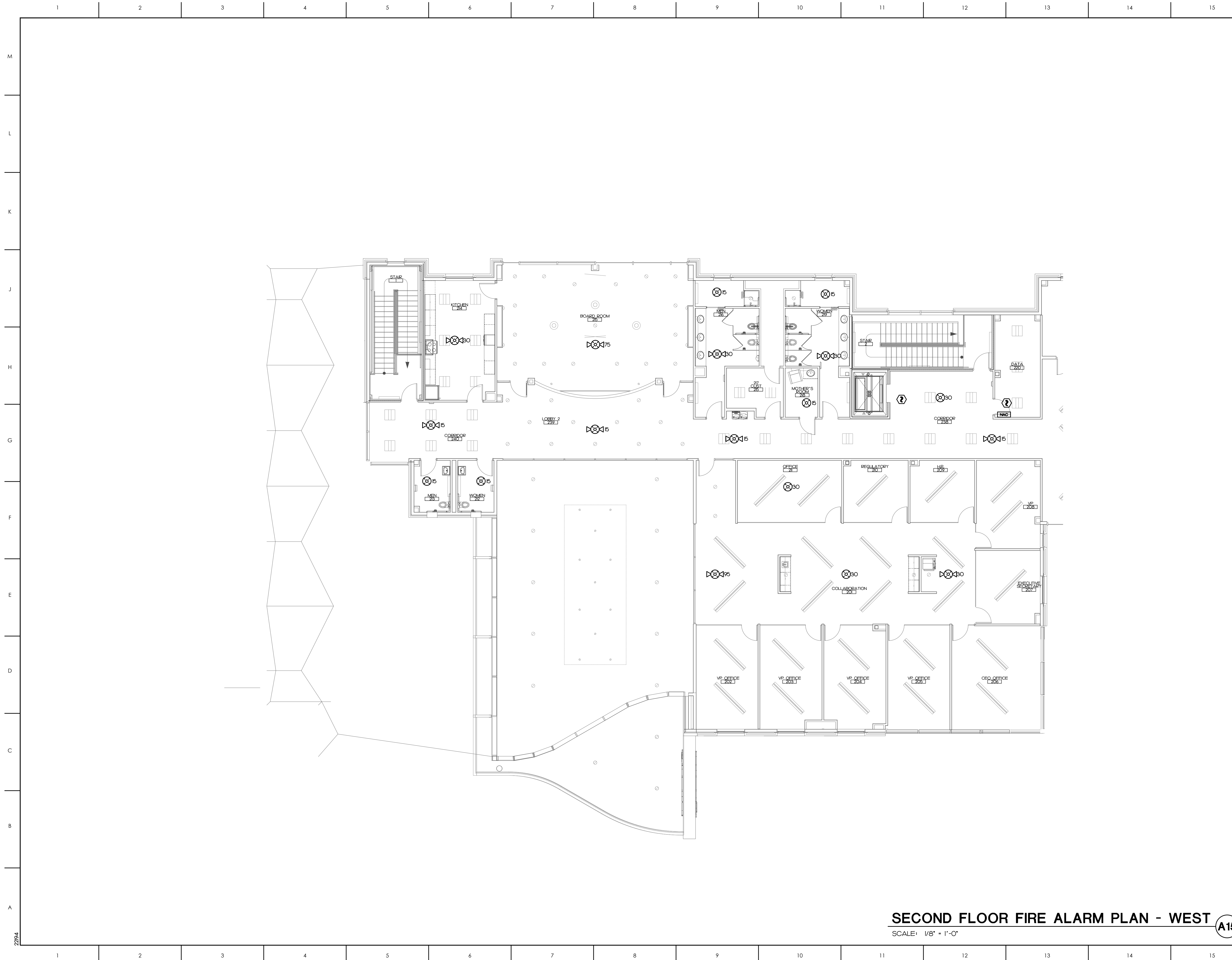
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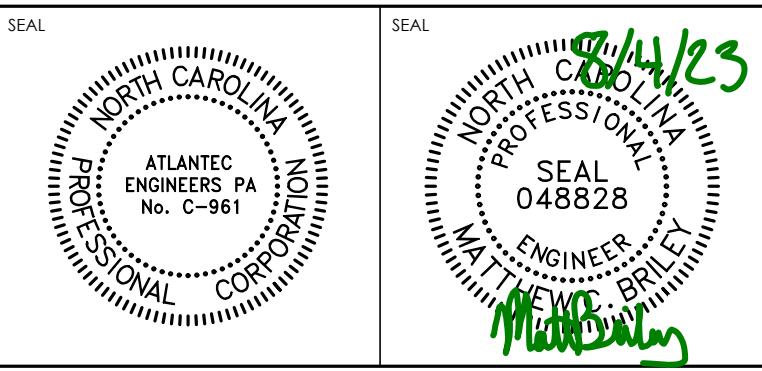
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SECOND FLOOR PLAN

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DRAWN	MCB	
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

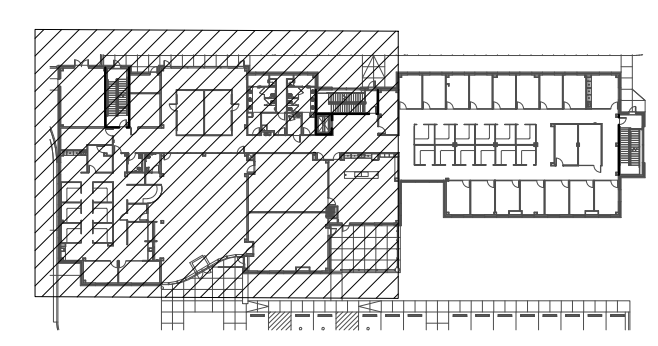
SECOND FLOOR PLAN (A15)
 SCALE: 3/32" = 1'-0"



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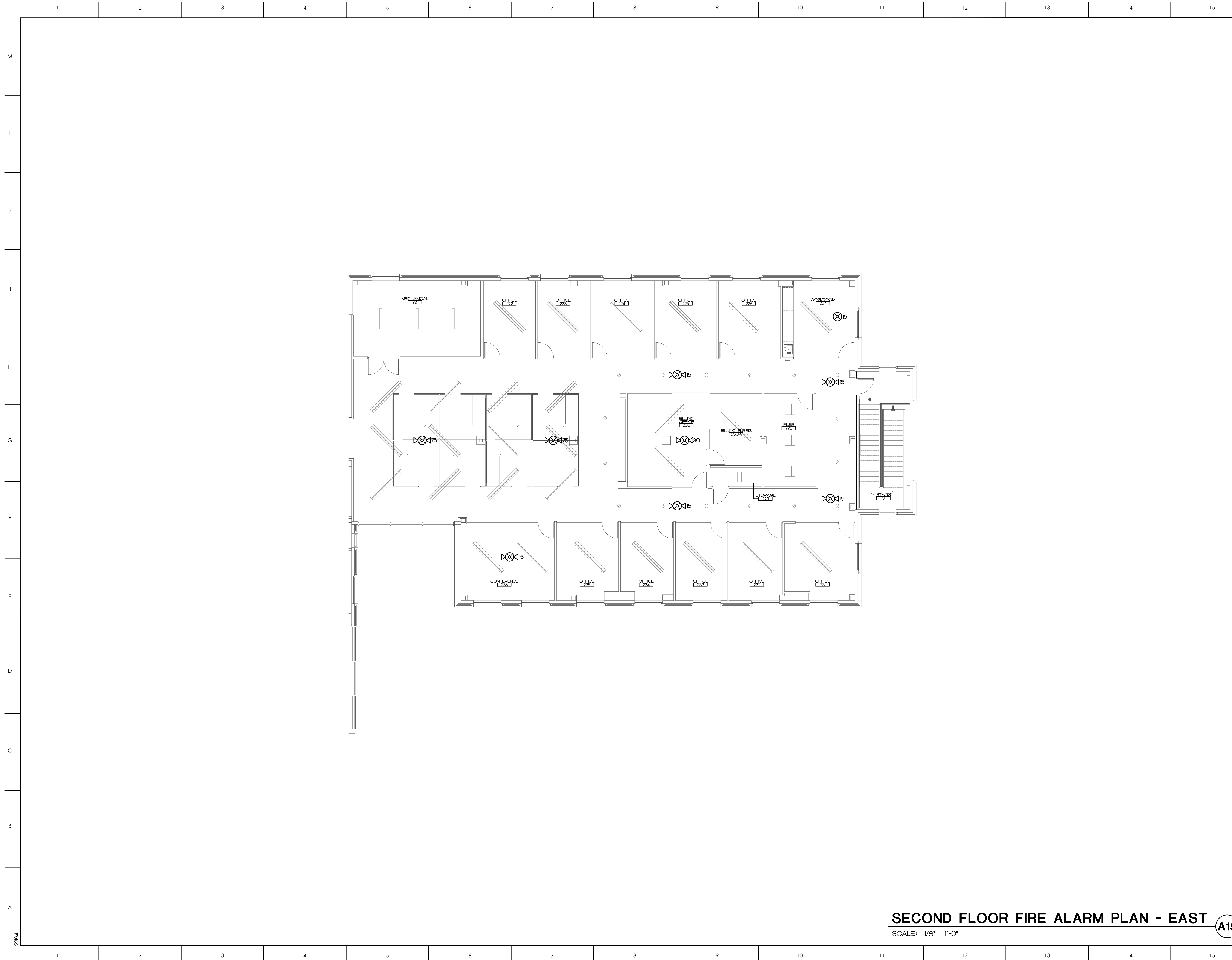
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DRAWING TITLE
 OFFICE BUILDING
 SECOND FLOOR
 FIRE ALARM PLAN - WEST

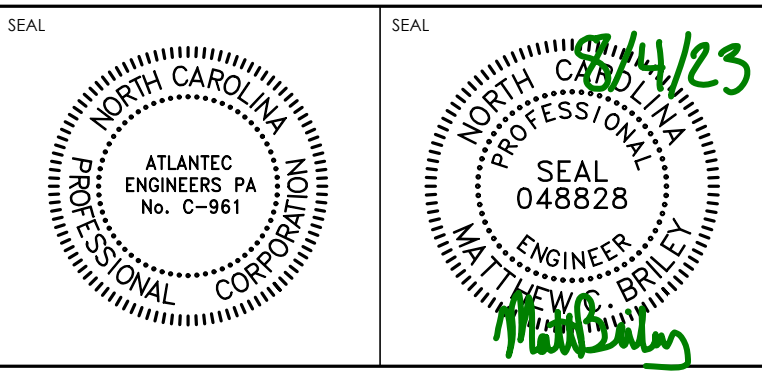
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CHECKED	MCB	
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PROJECT NO.	2022-17	

SECOND FLOOR FIRE ALARM PLAN - WEST (A15)
 SCALE: 1/8" = 1'-0"

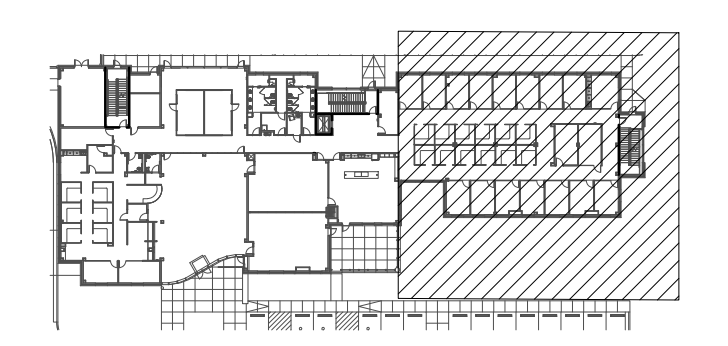
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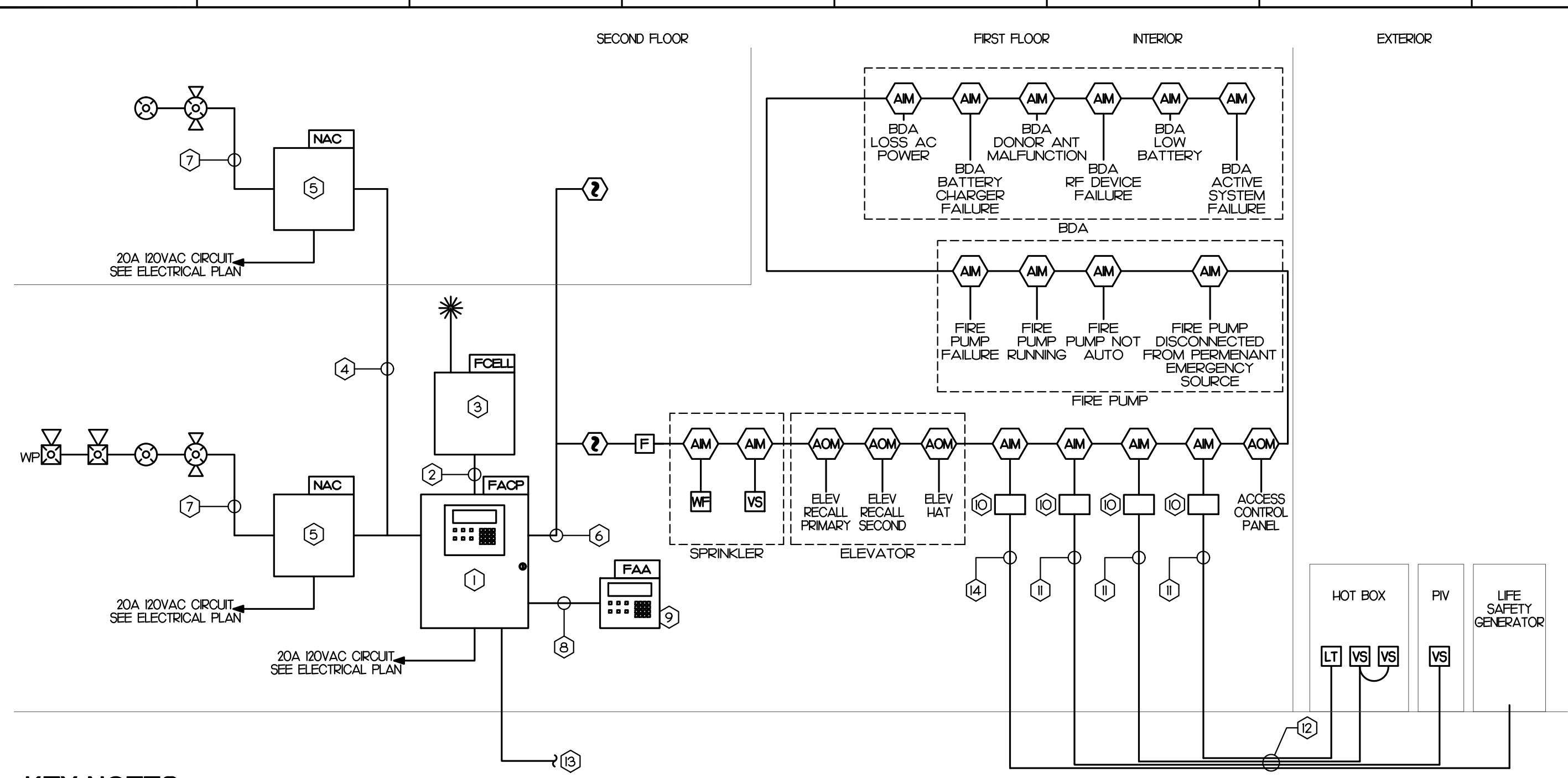
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DRAWING TITLE
 OFFICE BUILDING
 SECOND FLOOR
 FIRE ALARM PLAN - EAST

SCALE	SEE PLANS	DRAWING NO. FA1.22
DRAWN	MCB	
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	

SECOND FLOOR FIRE ALARM PLAN - EAST (A15)
 SCALE: 1/8" = 1'-0"



KEY NOTES

- ① ADDRESSABLE FIRE ALARM CONTROL PANEL.
- ② 2 LINE COMMUNICATION CABLE IN CONDUIT.
- ③ CELLULAR DIGITAL ALARM COMMUNICATOR. SEE FIRE ALARM NOTE AND LEGEND FOR REQUIREMENTS.
- ④ SYNC CIRCUIT.
- ⑤ NAC PANEL. PROVIDE ADDITIONAL NAC PANELS AS REQUIRED.
- ⑥ ADDRESSABLE CIRCUIT.
- ⑦ NOTIFICATION APPLIANCE CIRCUIT.
- ⑧ ANNUNCIATOR CIRCUIT.
- ⑨ REMOTE ANNUNCIATOR PANEL.
- ⑩ PROVIDE SURGE PROTECTOR AS REQUIRED FOR INITIATING CIRCUIT TO INITIATING DEVICE LOCATED OUTSIDE BUILDING.
- ⑪ INITIATING CIRCUIT.
- ⑫ WIRING IN UNDERGROUND CONDUIT. MINIMUM SIZE OF 1". MINIMUM BURIAL DEPTH OF 24" BELOW FINISHED GRADE.
- ⑬ PROVIDE NETWORK CABLE IN CONDUIT AS REQUIRED TO NETWORK OPERATIONS BUILDING FACP WITH HQ BUILDING FACP.
- ⑭ MONITORING CIRCUIT FOR LIFE SAFETY GENERATOR. GENERATOR NOT IN AUTOMATIC.

FIRE ALARM RISER (G8)
NOT TO SCALE

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
?	SMOKE DETECTOR, PHOTOELECTRIC ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
F	FIRE ALARM FULL STATION MOUNT 42" AFF. ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
WF	WEATHERPROOF FIRE ALARM STROBE/HORN MOUNT 80" AFF. 75 dBA SOUND LEVEL. 'XX' INDICATES CANDELA RATING.	FIRELITE, EST GAMEWELL, SIMPLEX
WFXX	FIRE ALARM STROBE/HORN MOUNT 80" AFF. 75 dBA SOUND LEVEL. 'XX' INDICATES CANDELA RATING.	FIRELITE, EST GAMEWELL, SIMPLEX
WFXX	FIRE ALARM CEILING STROBE/HORN 75 dBA SOUND LEVEL. 'XX' INDICATES CANDELA RATING.	FIRELITE, EST GAMEWELL, SIMPLEX
WFXX	FIRE ALARM STROBE MOUNT 80" AFF. 'XX' INDICATES CANDELA RATING.	FIRELITE, EST GAMEWELL, SIMPLEX
WFXX	FIRE ALARM CEILING STROBE. 'XX' INDICATES CANDELA RATING.	FIRELITE, EST GAMEWELL, SIMPLEX
FAACP	FIRE ALARM CONTROL PANEL, SURFACE MOUNTED. ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
FAA	FIRE ALARM REMOTE ANNUNCIATOR, FLUSH MOUNTED. ADDRESSABLE. MOUNT 42" AFF.	FIRELITE, EST GAMEWELL, SIMPLEX
NAC	FIRE ALARM NOTIFICATION APPLIANCE POWER CABINET SURFACE MOUNTED.	FIRELITE, EST GAMEWELL, SIMPLEX
FCELL	FIRE ALARM CELLULAR COMMUNICATOR WITH BATTERY BACKUP 2 PATH COMMUNICATIONS (CELLULAR AND P (INTERNET)). SURFACE MOUNTED.	HONEYWELL: HWF2+COM OR EQUAL
BDA	BIDIRECTIONAL ANTENNA SYSTEM SURFACE MOUNTED. PROVIDE INSTALLATION IF REQUIRED. SEE A81/FA22 FOR DETAILS.	HONEYWELL OR EQUAL
AOM	RELAY CONTROL MODULE ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
AM	MONITOR MODULE ADDRESSABLE.	FIRELITE, EST GAMEWELL, SIMPLEX
WF	FIRE SPRINKLER WATER FLOW SWITCH.	BY SPRINKLER CONTRACTOR.
VS	FIRE SPRINKLER VALVE SUPERVISORY SWITCH (TAMPER SWITCH).	BY SPRINKLER CONTRACTOR.
LT	LOW TEMP SENSOR. TEMP. SETTING 40°F. NORMALLY OPEN ROOM TEMPERATURE.	POTTER: RTS-0
AF.C.	ABOVE FINISHED CEILING	
AFF.	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	
BFF.	BELOW FINISHED FLOOR	
BF.G.	BELOW FINISHED GRADE	

FIRE ALARM NOTES

- SEE PLANS FOR QUANTITY AND LOCATION OF ALL EQUIPMENT.
- CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENT PER 2018 FIRE CODE SECTION 907.11 AND 907.12 TO ENGINEER FOR APPROVAL PRIOR TO SUBMIT TO AND TESTING BY LOCAL FIRE MARSHAL'S OFFICE.
- PLACARD THE ENTIRE FIRE ALARM SYSTEM. PROVIDE PANEL AND CIRCUIT NUMBERS ON A NAME PLATE AFFIXED TO THE FACE OF THE FIRE ALARM CONTROL PANEL.
- CONTRACTOR SHALL PROVIDE ZONE MAPS COMPLETE WITH ADDRESSES FOR EACH FIRE ALARM DEVICE IN WOODEN FRAME ADJACENT TO THE NEW FIRE ALARM CONTROL PANEL.
- ELECTRICAL CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS AND CUT SHEETS FOR FIRE ALARM SYSTEM TO ENGINEER FOR APPROVAL.
- ALL WIRING SHALL BE SUPERVISED.
- ALL WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
- ALL WIRING IN WALLS OR FURRED SPACES SHALL BE IN CONDUIT.
- WHERE PERMITTED BY CODE, WIRING ABOVE ACCESSIBLE CEILINGS MAY BE RUN EXPOSED AND THE FOLLOWING REQUIREMENTS SHALL BE MET:
 - WIRING SHALL BE PLENUM RATED WHERE APPLICABLE.
 - PROVIDE BRIDLE RINGS FOR INDEPENDENT FIRE ALARM CABLE SUPPORT UNLESS SPECIFICALLY NOTED OTHERWISE. ANALOG LOOP WIRING INCOMING AND OUTGOING SHALL NOT BE SUPPORTED IN THE SAME BRIDLE RING.
- ADDRESSABLE SLC CIRCUIT REQUIREMENTS:
 - WIRING SHALL BE 'CLASS B'.
 - MINIMUM CAPACITY OF ANALOG SENSORS PER LOOP SHALL BE 48.
 - MINIMUM CAPACITY OF ADDRESSABLE MONITORING DEVICES PER LOOP SHALL BE 48.
 - MINIMUM CAPACITY OF ADDRESSABLE CONTROL RELAY MODULES PER LOOP SHALL BE 48.
- NOTIFICATION CIRCUIT REQUIREMENTS:
 - WIRING SHALL BE 'CLASS B'.
 - PROVIDE WITH 'SYNC MODULE' AS REQUIRED PER NFPA 72.
 - FURNISH NOTIFICATION CIRCUITS AS REQUIRED TO ACCOMMODATE CIRCUIT LOADING. NO NOTIFICATION CIRCUIT SHALL BE LOADED TO MORE THAN 80% CAPACITY.
- NOTIFICATION APPLIANCE RATINGS:
 - PROVIDE SOUND (dB) AND CANDELA (Cd) RATINGS FOR ALL HORN/STROBE DEVICES PER NFPA 72. ALL VISIBLE NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED PER NFPA 72, 18.5.7 AND 18.5.6.
 - A DECIBEL LEVEL OF (5 dB ABOVE AMBIENT ON NFPA 72, TABLE A18.4.3) SHALL BE MAINTAINED IN ALL GENERAL AREAS AND 100 dB (5 dB ABOVE AN AMBIENT OF 85 dB ON NFPA 72, 18.4.3.1) SHALL BE MAINTAINED IN ALL MECHANICAL EQUIPMENT ROOMS PER NFPA 72 AND THE 2018 NORTH CAROLINA STATE BUILDING CODE (SECTION 907.6.2).
 - WHERE FIRE ALARM SYSTEM IS WITH VOICE EVACUATION SYSTEM PER NFPA 18.4.5 VOICE MESSAGES SHALL NOT BE REQUIRED TO MEET THE AUDIBILITY REQUIREMENTS OF 18.4.5, BUT SHALL MEET THE INTELLIGIBILITY REQUIREMENTS OF 18.4.10 WHERE VOICE INTELLIGIBILITY IS REQUIRED.
- DIGITAL ALARM COMMUNICATOR:
 - FIRE ALARM SYSTEM SHALL BE WITH DIGITAL ALARM COMMUNICATOR (DACT).
 - OPTION DACT SHALL HAVE CAPABILITY TO HANDLE 2 PHONE LINES.
 - OPTION WHERE SINGLE COMMUNICATION PATH WITH CELLULAR NETWORK IS ACCEPTABLE BY THE LOCAL FIRE MARSHAL, PROVIDE WITH THE COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE IN COMPLIANCE WITH NFPA 72 26.6.3.15.
 - OPTION WHERE SINGLE COMMUNICATION PATH WITH INTERNET NETWORK IS ACCEPTABLE BY THE LOCAL FIRE MARSHAL, PROVIDE WITH THE COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE IN COMPLIANCE WITH NFPA 72 26.6.3.15.
 - WHERE DUAL COMMUNICATION PATHS OF CELLULAR NETWORK AND INTERNET NETWORK ARE REQUIRED BY THE LOCAL FIRE MARSHAL, PROVIDE WITH COMMUNICATOR IN LIEU OF 2 LINE TELEPHONE.
 - FIELD COORDINATE TYPE MATCH MONITORING COMPANY.
- FOR ALL AH-J UNITS WITH REQUIRED DUCT DETECTOR PER MECHANICAL PLAN.
 - THE FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT MOUNTED SMOKE DETECTORS FOR INSTALLATION BY THE MECHANICAL CONTRACTOR WITHIN THE DUCT.
 - ANY ALARM SHALL SHUT DOWN ALL AIR HANDLING UNITS.
 - SHUT DOWN SHALL BE ACHIEVED VIA FACP CONTROLLED RELAY WITHIN FACP OR ADDRESSABLE RELAY. SHUT DOWN VIA THE DUCT SMOKE DETECTOR CONTROLLED RELAY IS NOT ACCEPTABLE.
 - FIRE ALARM CONTRACTOR SHALL PROVIDE WIRING AND RELAYS AS REQUIRED FOR AIR HANDLING SHUTDOWN. FIELD COORDINATE AIR HANDLING UNIT SHUTDOWN WITH MECHANICAL CONTROL SYSTEM. FINAL CONNECTIONS OF WIRING FOR HVAC SYSTEM SHALL BE BY THE ELECTRICAL CONTRACTOR.
 - CONTRACTOR SHALL PROVIDE A SMOKE MACHINE TO TEST THE DUCT DETECTION PORTION OF THE FIRE ALARM SYSTEM. SMOKE BOMBS AND/OR MAGNETS FOR TESTING OF THE DUCT DETECTION SYSTEM IS PROHIBITED.
- FOR SPRINKLER SYSTEM:
 - FIELD COORDINATE QUANTITY AND LOCATION OF FLOW AND TAMPER SWITCHES WITH SPRINKLER'S FINAL DRAWINGS AND/OR CIVIL DRAWING FOR TAMPER SWITCH FOR PIV VALVE.
 - PROVIDE MONITORING MODULES AS REQUIRED FOR SPRINKLER SYSTEM.
- FOR ELEVATOR SYSTEM:
 - PROVIDE ELEVATOR CAPTURE SIGNALS PER NC DEPARTMENT OF LABOR REQUIREMENTS.
 - WHERE SPRINKER HEADS ARE LOCATED IN ELEVATOR ROOM AND ELEVATOR PIT, PROVIDE ELEVATOR SHUNT TRIP ACTIVATION PER NC DEPARTMENT OF LABOR REQUIREMENTS. PROVIDE RELAYS AND MODULES AS REQUIRED TO OPERATE SHUNT TRIP BREAKER.
 - NO OTHER DEVICES SHALL AFFECT ELEVATOR OPERATIONS.

SYSTEM INPUTS	SYSTEM OUTPUTS																										
	FACP ANNUNCIATION													NOTIFICATION							REQUIRED FIRE SAFETY CONTROL						
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y		
1 FIRE ALARM SYSTEM AC POWER FAILURE																											
2 FIRE ALARM SYSTEM LOW BATTERY																											
3 OPEN CIRCUIT																											
4 GROUND FAULT																											
5 NOTIFICATION APPLIANCE CIRCUIT SHORT																											
6 BUILDING MANUAL FULL STATIONS																											
7 AREA SMOKE DETECTORS																											
8 HOT BOX LOW TEMPERATURE																											
9 POST INDICATOR VALVE TAMPER SWITCH																											
10 SPRINKLER TAMPER SWITCH																											
11 SPRINKLER WATER FLOW IN BUILDING																											
12 SPRINKLER WATER FLOW IN ELEV SHAFT																											
13 ELEV EQUIP AREA SMOKE DETECTOR																											
14 ELEV LOBBY SMOKE DETECTORS - UPPER FLOOR																											
15 ELEV LOBBY SMOKE DETECTOR - RECALL FLOOR																											
16 ELEV CONTROLLER POWER SHUNT TRIP STATUS																											
17 FIRE PUMP POWER FAILURE/PHASE REVERSAL																											
18 FIRE PUMP RUNNING																											
19 FIRE PUMP SYSTEM NOT IN AUTOMATIC																											
20 FIRE PUMP DISCONNECTED FROM PERMANENT EM SOURCE																											
21 LEGALLY REQUIRED GENERATOR NOT IN AUTOMATIC																											
22 -																											
23 -																											
24 -																											
25 -																											
26 -																											
27 -																											

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KEY PLAN

NO	REVISION	DATE

JKF

ARCHITECTURE

635 LYNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

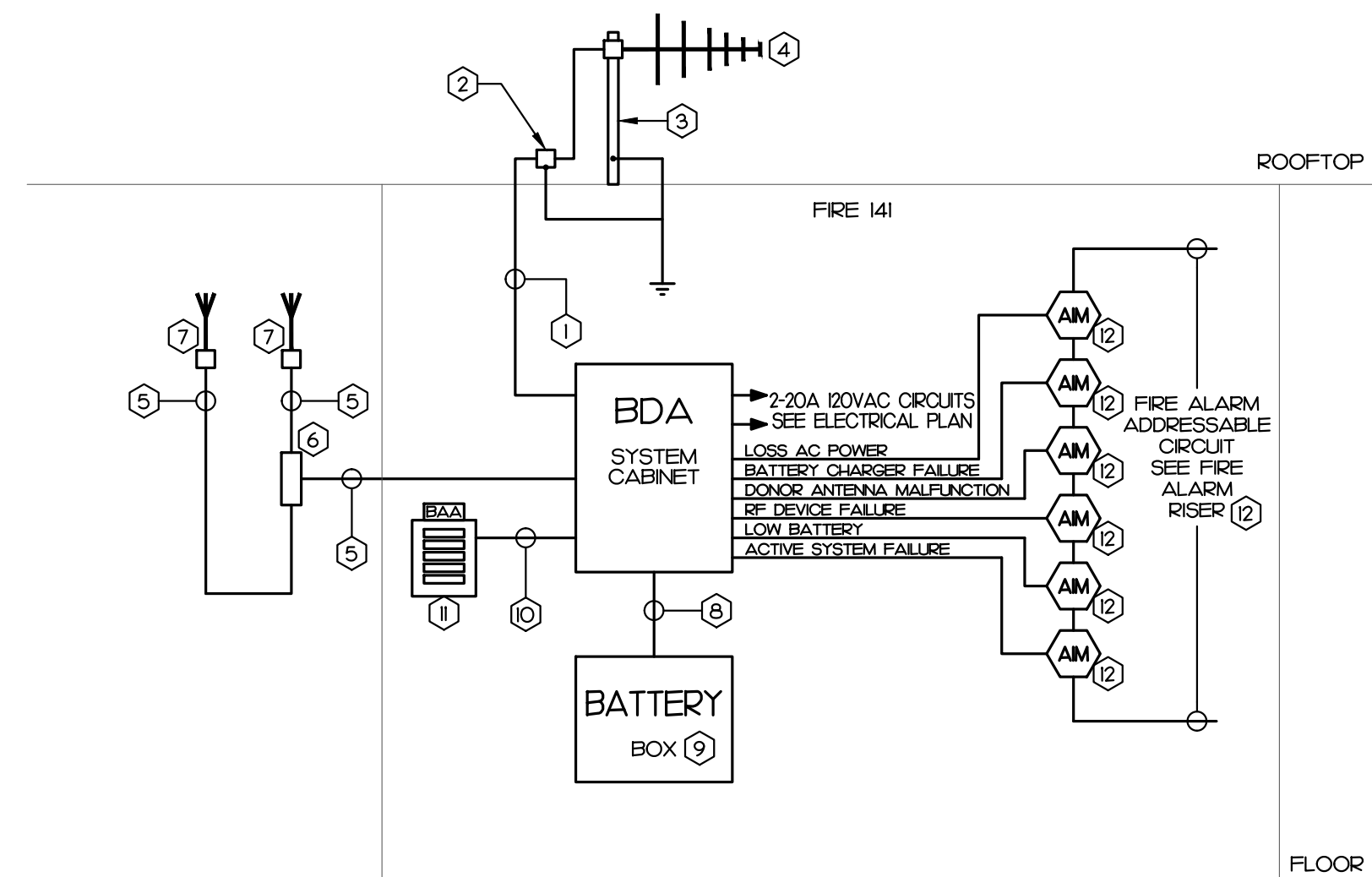
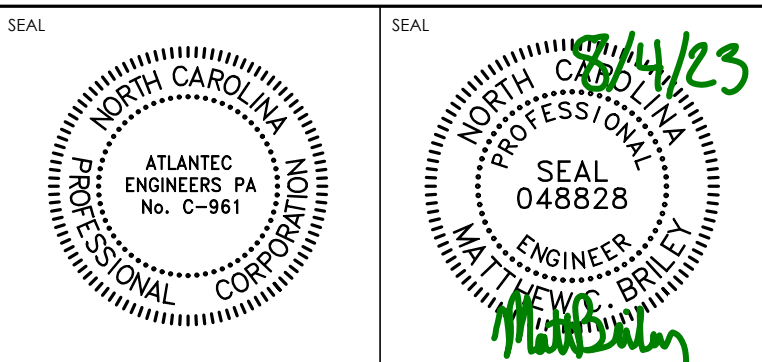
STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

DRAWING TITLE

OFFICE BUILDING FIRE ALARM RISER, LEGEND, NOTES, AND MATRIX

SCALE SEE PLANS	DRAWING NO. FA2.1
DRAWN MCB	
CHECKED MCB	
DATE 07-15-2023	
PROJECT NO. 2022-17	

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KEY NOTES

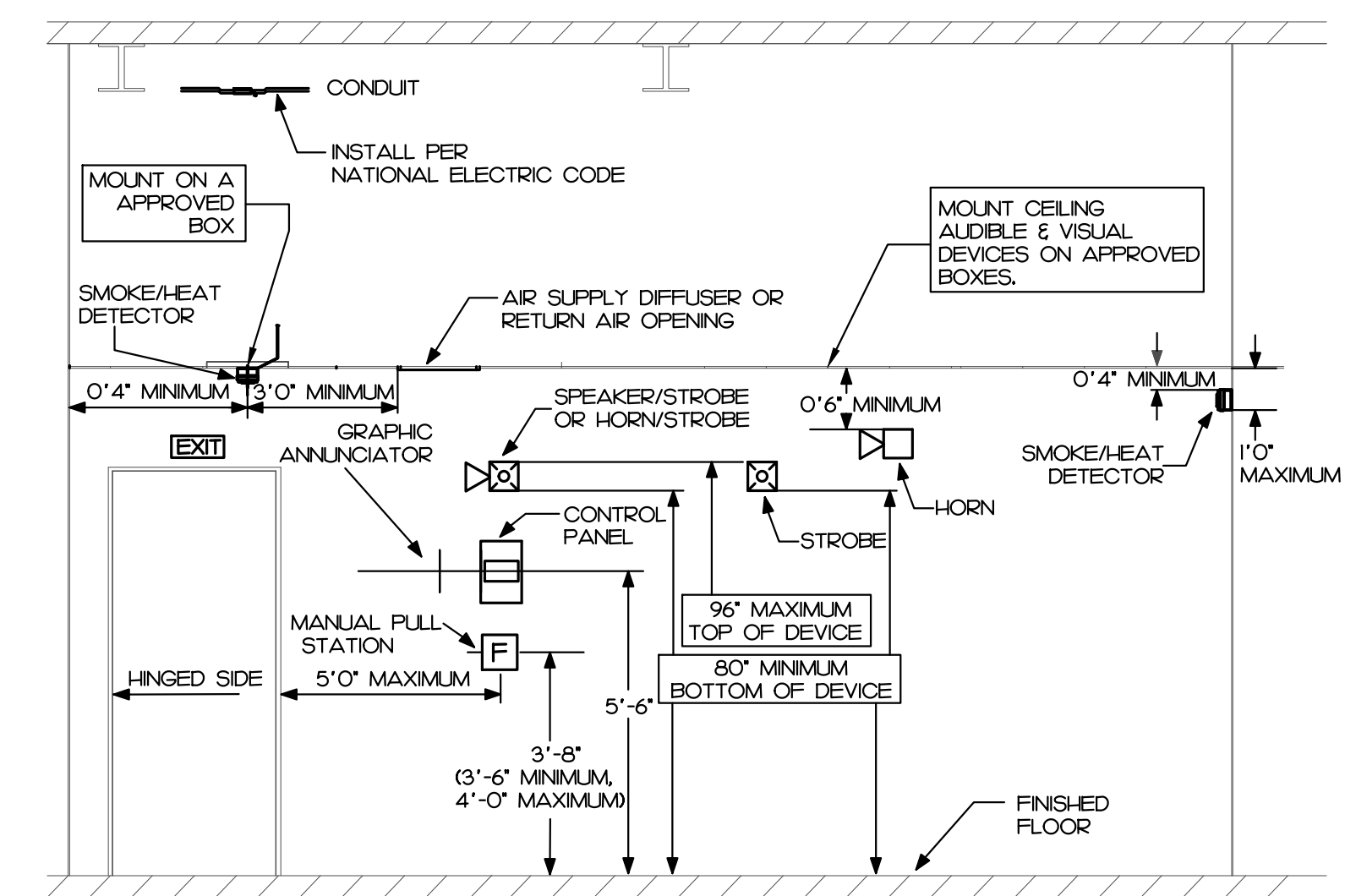
- ① DONOR ANTENNAS CABLE IN CONDUIT.
- ② PROVIDE LIGHTNING ARRESTOR, GROUNDED AS REQUIRED.
- ③ DONOR ANTENNA MAST. TO BE BONDED TO BUILDING STEEL.
- ④ DONOR ANTENNA.
- ⑤ DISTRIBUTED ANTENNA SYSTEM (DAS) CABLE.
- ⑥ PROVIDE SIGNAL SPLITTER AS REQUIRED.
- ⑦ PROVIDE DAS ANTENNA(S) AS REQUIRED FOR COVERAGE. FILED VERIFY LOCATION AND INSTALLATION OUTSIDE FIRE RISER ROOM WITH ARCHITECT PRIOR TO ROUGH-IN.
- ⑧ BATTERY CABLE IN CONDUIT.
- ⑨ BATTERY BOX: 24VDC
- ⑩ REMOTE ANNUNCIATOR CIRCUIT IN CONDUIT.
- ⑪ REMOTE ANNUNCIATOR. LOCATE ADJACENT TO FACP ANNUNCIATOR IN RECEPTION.
- ⑫ FIRE ALARM DEVICE AND WIRING. SEE FIRE ALARM RISER DIAGRAM.

NOTES

1. CONTRACTOR SHALL PROVIDE PRICES FOR BI-DIRECTIONAL ANTENNA SYSTEM (BDA) AS FOLLOWS:
 - A. SYSTEM REQUIREMENT EVALUATION:
 - a. PROVIDE RF SURVEY AND MAP THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH (OUTSIDE) AT THE PROPERTY (RAW SURVEY)
 - b. A REGISTERED DESIGN PROFESSIONAL SHALL REVIEW THE EMERGENCY RESPONDER RADIO SIGNAL STRENGTH OUTSIDE (ER-RSS OUTSIDE) SURVEY AND BUILDING CONSTRUCTION PLANS TO DETERMINE THAT THE MINIMUM EMERGENCY RESPONDER RADIO SIGNAL STRENGTH INSIDE (ER-RSS INSIDE) WILL LIKELY BE AVAILABLE IN THE PROPOSED BUILDING.
 - c. WHEN THE DESIGN PROFESSIONAL DETERMINES THAT A DBA OR RCS SYSTEM WILL NOT BE REQUIRED, SUBMIT EVALUATION TO THE LOCAL FIRE MARSHAL OFFICE FOR APPROVAL. DO NOT INSTALL THE BDA SYSTEM PER PLAN.
 - d. WHEN THE DESIGN PROFESSIONAL DETERMINES THAT A DBA OR RCS SYSTEM WILL BE REQUIRED, SEE SYSTEM INSTALLATION.
 - B. SYSTEM INSTALLATION:
 - a. FURNISH SHOP DRAWINGS INCLUDING THE RADIO WAVE PROPAGATION PLAN TO THE LOCAL FIRE MARSHAL OFFICE FOR APPROVAL.
 - b. PROVIDE INSTALLATION PLAN.
 - c. PRIOR TO FINAL INSPECTION, AN ER-RSS INSIDE SURVEY SHALL BE PERFORMED AND MAPPED. THIS SHALL BE SUBMITTED TO THE ENGINEER AND THE LOCAL FIRE MARSHAL OFFICE.
2. SHOWN DIAGRAM IS A GUIDE LINE. IF THE INSTALLATION IS REQUIRED UPON SURVEY, CONTRACTOR SHALL PROVIDE INSTALLATION PER SPECIFICATIONS AND MANUFACTURER INSTRUCTION.
3. INSTALLATION SHALL COMPLY WITH 2018 NC FIRE CODE, 2013 NFPA 72 AND 2016 NFPA 122.

BI-DIRECTION ANTENNA SYSTEM DETAIL (A8)
NOT TO SCALE

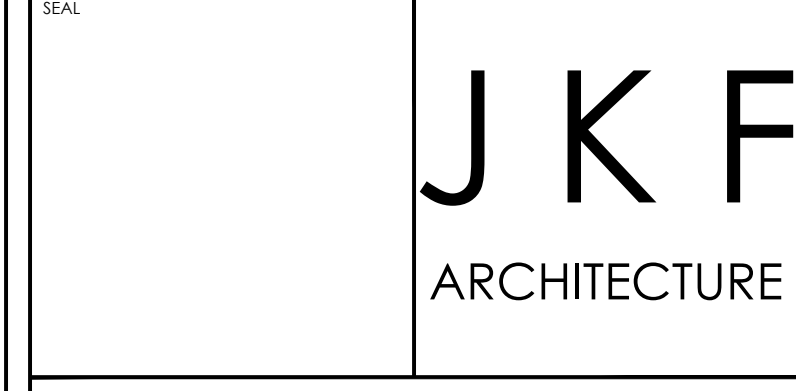
NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



FIRE ALARM DEVICE MOUNTING DETAIL (G15)
NOT TO SCALE

KEY PLAN

NO	REVISION	DATE



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STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

DRAWING TITLE
**BDA DETAIL
FIRE ALARM DEVICE
MOUNTING DETAIL**

SCALE	SEE PLANS	DRAWING NO FA2.2
DRAWN	MCB	
CHECKED	MCB	
DATE	07-15-2023	
PROJECT NO.	2022-17	