

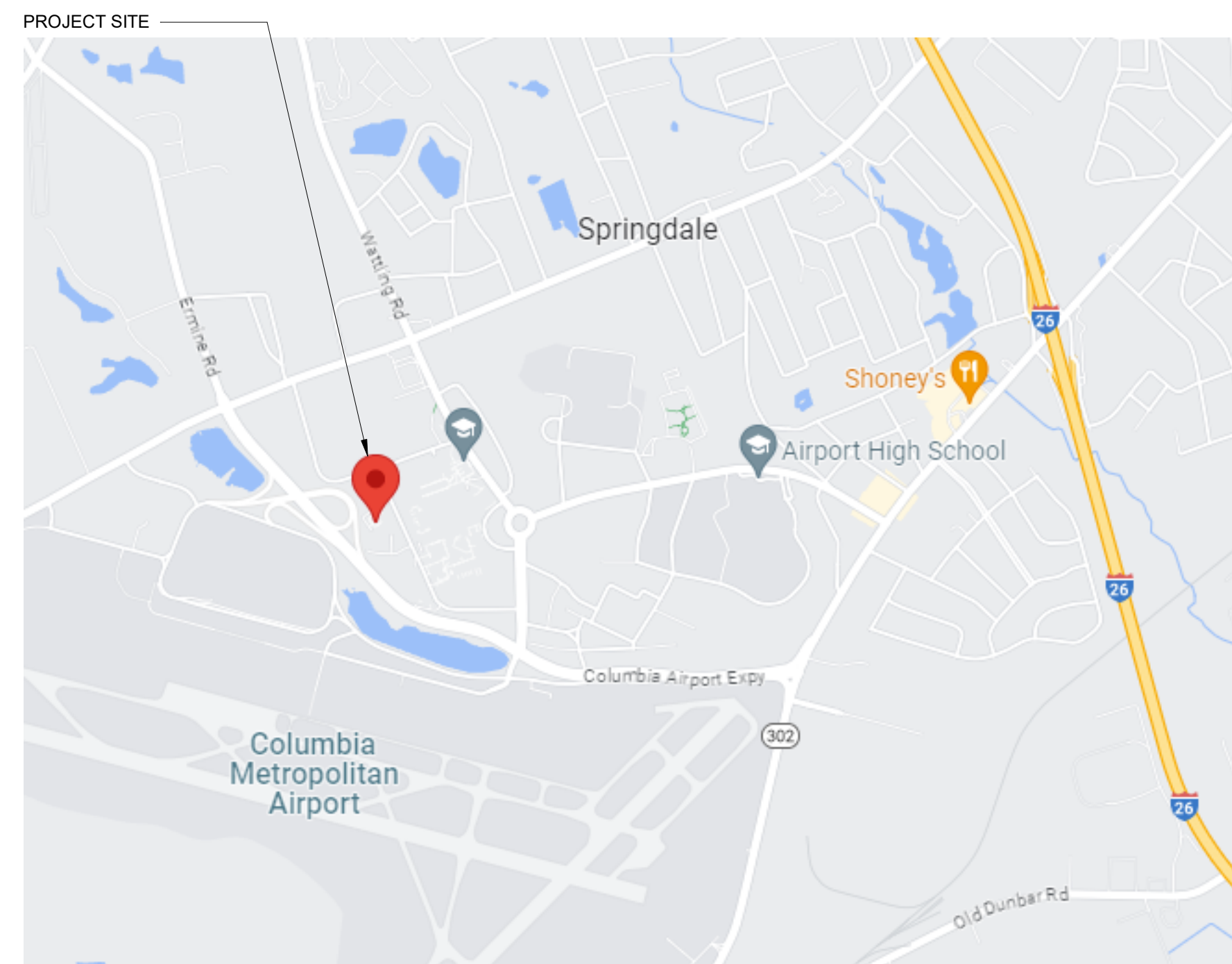
# MTC - SPRINGDALE HALL RESTROOM - AIRPORT CAMPUS

1260 LEXINGTON DRIVE,  
COLUMBIA, SC 29170

## CONSTRUCTION DOCUMENTS

H59-N241-CL

JUNE 7, 2023



**A1 SITE LOCATION**  
N.T.S.

SHEET INDEX	
SHEET NUMBER	SHEET NAME
<b>GENERAL</b>	
G-001	COVER SHEET
<b>ARCHITECTURE</b>	
A-001	GENERAL NOTES, ABBREVIATIONS & SYMBOLS
A-002	TYPICAL MOUNTING HEIGHTS, LOCATIONS, & CLEARANCES
A-003	PARTITION TYPES & APPLICABLE CODES
A-101	RENOVATION FLOOR PLAN
A-102	REFLECTED CEILING PLAN
A-103	INTERIOR FINISHES
A-104	DOOR SCHEDULE & DETAILS
<b>FIRE PROTECTION</b>	
SP1	SPRINKLER FLOOR PLAN
<b>PLUMBING</b>	
P1	PLUMBING DETAILS, NOTES AND SCHEDULES
P2	PLUMBING FLOOR PLANS
P3	PLUMBING SPECIFICATIONS
<b>MECHANICAL</b>	
M101	HVAC FLOOR PLAN, SCHEDULES AND DETAILS
M201	HVAC SPECIFICATIONS
<b>ELECTRICAL</b>	
E-001	ELECTRICAL NOTES & LEGENDS
E-101	ELECTRICAL PLANS
SHEET TOTAL: 16	



1301 Gervais Street,  
Suite 1300  
Columbia  
SC 29201

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SC. LICENSE NUMBERS:  
ARCHITECTURE: B-98107  
ENGINEERING: CO1806

EOR/AOR SEAL



CLIENT INFORMATION



PROJECT NAME

MTC -  
SPRINGDALE  
HALL  
RESTROOM -  
AIRPORT  
CAMPUS  
H59-N241-CL

1260 LEXINGTON  
DRIVE,  
COLUMBIA, SC 29170

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: GB  
DRAWN BY: WLM  
CHECKED BY: GB  
SUBMITTED BY: GB  
DATE: JUNE 7, 2023  
PROJECT #: 1230236

SHEET TITLE

COVER SHEET

SHEET NUMBER

**G-001**

ORIGINAL SHEET SIZE:  
22" X 34"

### DESIGN TEAM

**ARCHITECT**  
Pond and Company  
1301 Gervais Street, Suite 1300  
Columbia, SC 29201  
Phone (803) 799-6502

**INTERIOR DESIGN**  
Pond and Company  
1301 Gervais Street, Suite 1300  
Columbia, SC 29201  
Phone (803) 799-6502

**FIRE PROTECTION**  
Mechanical Design Inc.  
4403 Broad River Road,  
Columbia, SC 29210  
Phone (803) 731-9834

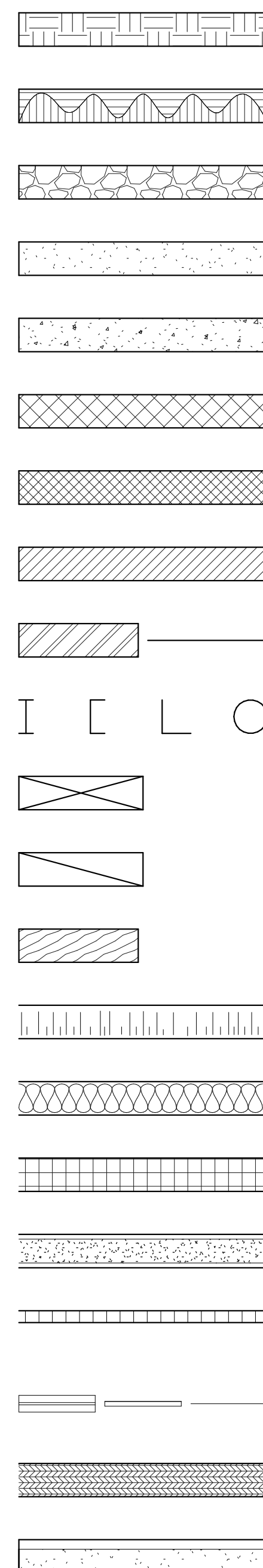
**PLUMBING ENGINEER**  
Mechanical Design Inc.  
4403 Broad River Road,  
Columbia, SC 29210  
Phone (803) 731-9834

**MECHANICAL ENGINEER**  
Mechanical Design Inc.  
4403 Broad River Road,  
Columbia, SC 29210  
Phone (803) 731-9834

**ELECTRICAL ENGINEER**  
Belka Engineering Associates  
2519A Platt Springs Road,  
West Columbia, SC 29169  
Phone (803) 731-0650



MATERIALS



COMPACTED EARTH
ROCK
ROCKFILL
SAND / MORTAR
CONCRETE
CONCRETE BLOCK(CMU)
EXTERIOR INSULATION FINISH SYSTEM
BRICK
METAL-LARGE SCALE
METAL-SMALL SCALE
WOOD-FRAMING (CONTINUOUS)
WOOD-BLOCKING (DISCONTINUOUS)
WOOD-FINISH
ACOUSTICAL TILE
INSULATION BATT
INSULATION RIGID
GYPSUM BOARD
CERAMIC TILE
GLASS
PLYWOOD
PLASTER/ROCK LATH

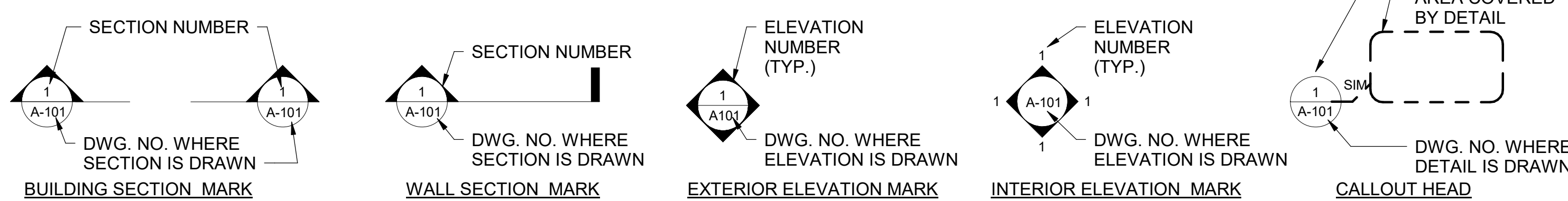
ARCHITECTURAL GENERAL NOTES:

- 1. THE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE DRAWINGS ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. THE ENUMERATION OF PARTICULAR ITEMS OF WORK IN ONE PORTION OF THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUED TO EXCLUDE OTHER ITEMS NECESSARY OR IMPLIED THEREFROM.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.
4. WORK SHALL CONFORM TO APPLICABLE INDUSTRY AND MANUFACTURER'S PUBLISHED STANDARDS FOR QUALITY OF MATERIALS AND WORKMANSHIP AS WELL AS REQUIREMENTS IN THE CONSTRUCTION DOCUMENTS. ANY CONFLICTING REQUIREMENTS OF THE SOURCES LISTED ABOVE SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO PROCEEDING WITH THE WORK.
5. THE CONTRACTOR SHALL PROTECT EXISTING, IN-PLACE, AND NEW WORK.
6. THE CONTRACTOR SHALL PAY FOR AND COORDINATE THE REMOVAL AND LEGAL DISPOSAL OF MATERIALS AND RUBBISH.
7. ONCE ON SITE, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS THAT CORRESPOND TO THOSE SHOWN ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DIFFERING CONDITIONS BEFORE COMMENCEMENT OF WORK.
8. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN, LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DIFFERING CONDITIONS BEFORE COMMENCEMENT OF WORK.
9. DIMENSIONS NOTED AS 'HOLD' SHALL NOT VARY BY MORE THAN 1/8" FROM SIDE TO SIDE OR FROM FRONT TO BACK, FINISHED SURFACE TO FINISHED SURFACE.
10. WALL AND/OR CEILING ASSEMBLIES THAT ARE IDENTIFIED WITH A FIRE RESISTIVE RATING SHALL BE CONSTRUCTED AS DETAILED HEREIN.
11. DIMENSIONS SHOWN ARE TO FACE OF STUD OR CMU (U.N.O.).
12. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH APPLICABLE CODES, ORDINANCES AND REGULATORY AGENCIES AND SHALL OBTAIN NECESSARY BUILDING AND FIRE PERMITS FROM AUTHORITIES HAVING JURISDICTION.
13. INTERIOR FINISH MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES, ORDINANCES AND REGULATORY AGENCIES.
14. DISSIMILAR METALS SHALL BE ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
15. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON INDIVIDUAL SHEETS SHALL BE APPLIED TO RELATED DRAWINGS AND DETAILS.
16. A FINISH INDICATION ON A WALL SHALL MEAN THE ENTIRE LENGTH AND HEIGHT OF WALL IS TO BE FINISHED OR FIRE-RATED AS INDICATED.
17. WHEN NON-DIMENSIONED PARTITIONS APPEAR IN CONJUNCTION WITH DOOR OPENINGS, THE DOOR WIDTH AND THE DOOR FRAME DETAILS DETERMINE THE LOCATION OF ADJACENT WALLS AND FRAMES.
18. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
19. THE CONTRACTOR SHALL COORDINATE MECHANICAL AND ELECTRICAL FLOOR AND WALL SLEEVES INCLUDING CONDUITS WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL AND ARCHITECTURAL DRAWINGS.
20. PROVIDE ACCESS PANELS AS REQUIRED BY APPLICABLE CODES AND AS REQUIRED FOR MECHANICAL EQUIPMENT AND PLUMBING WORK. ACCESS PANELS SHALL BE CONCEALED AND LOCATIONS SHALL BE REVIEWED WITH THE ARCHITECT PRIOR TO PROCEEDING.
21. PIPE DUCTS AND BUS DUCTS THAT PENETRATE FLOOR SLABS OR WALL PARTITIONS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE MOISTURE RESISTIVENESS, FIRE RATING, AND STRUCTURAL INTEGRITY OF THE BUILDING.
22. DO NOT CUT INTO, REMOVE OR ALTER ANY STRUCTURAL MEMBER OR PORTION OF THE FLOOR SYSTEM UNLESS IT IS SPECIFICALLY NOTED OR SHOWN ON THE STRUCTURAL DRAWINGS.
23. PROVIDE EXPANSION AND CONTROL JOINTS IN WORK AS PER PRODUCT MANUFACTURER'S STANDARDS.
24. INTERIOR PARTITION MOVEMENT CONTROL:
A. VERTICAL CONTROL JOINTS FOR ANY WALL LENGTH ARE TO OCCUR AT NOT MORE THAN 30'-0" O.C. IN THE HORIZONTAL DIRECTION, UNLESS NOTED OTHERWISE.
B. PROVISIONS SHALL BE MADE IN THE DESIGN, FABRICATION, AND INSTALLATION OF INTERIOR PARTITIONS FOR TYPICAL FLOOR DEFLECTIONS OF THE STRUCTURE UNDER SUPERIMPOSED LOADS AS FOLLOWS:
a. TYPICAL ROOF/FLOOR MEMBERS: SPAN/360 BUT NOT LESS THAN 1/2".
25. THE CONTRACTOR SHALL PLAN HIS/HER WORK TO PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES, AND EXECUTE THE WORK IN SUCH A MANNER TO AVOID ANY HAZARD TO PERSONS AND PROPERTY AS NECESSARY.
26. THE CONTRACTOR SHALL COORDINATE THE PHASING OF THE WORK TO BE PERFORMED IN OR ABOUT EXISTING FACILITIES, IF APPLICABLE, WITH THE OWNER'S REPRESENTATIVE PRIOR TO START OF SUCH WORK.

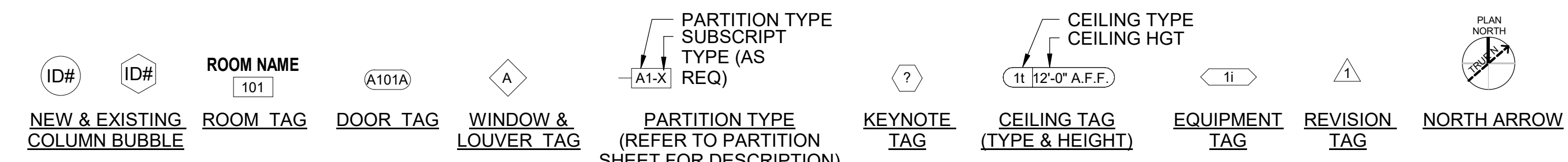
ARCHITECTURAL ABBREVIATIONS:

Table with columns for abbreviations and their corresponding full names. Includes terms like AFF (Above Finished Floor), ADAAG (American w/ Disabilities Accessibility Guidelines), ADJ (Adjustable), etc.

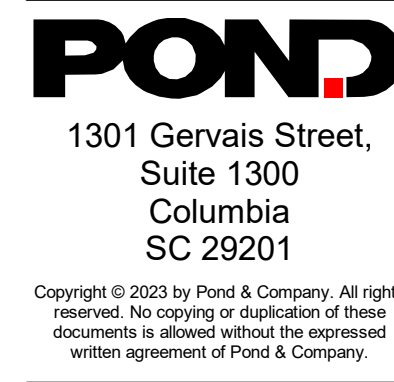
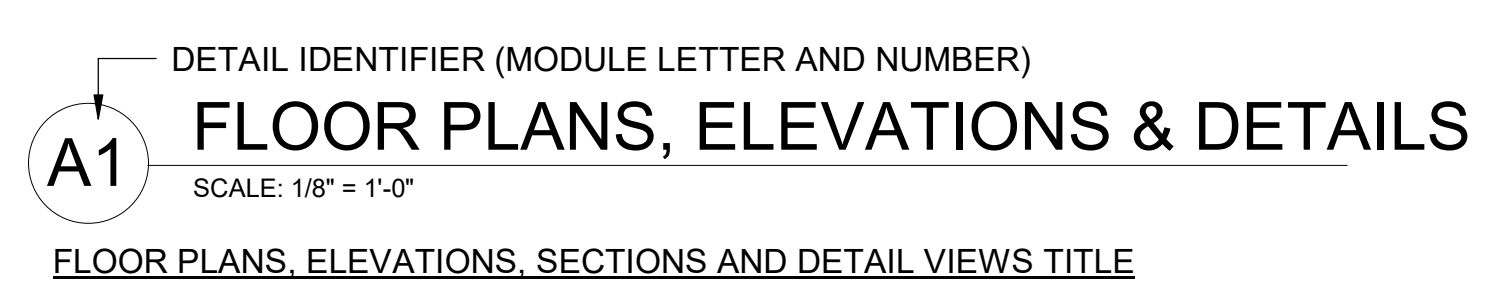
SYMBOLS:



PLAN SYMBOLS:



VIEW TITLES:



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SC. LICENSE NUMBERS: ARCHITECTURE: B-98107 ENGINEERING: CO1806



CLIENT INFORMATION



PROJECT NAME

MTC - SPRINGDALE HALL RESTROOM - AIRPORT CAMPUS H59-N241-CL

1260 LEXINGTON DRIVE, COLUMBIA, SC 29170

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: GB

DRAWN BY: WLM

CHECKED BY: GB

SUBMITTED BY: GB

DATE: JUNE 7, 2023

PROJECT #: 1230236

SHEET TITLE

GENERAL NOTES, ABBREVIATIONS & SYMBOLS

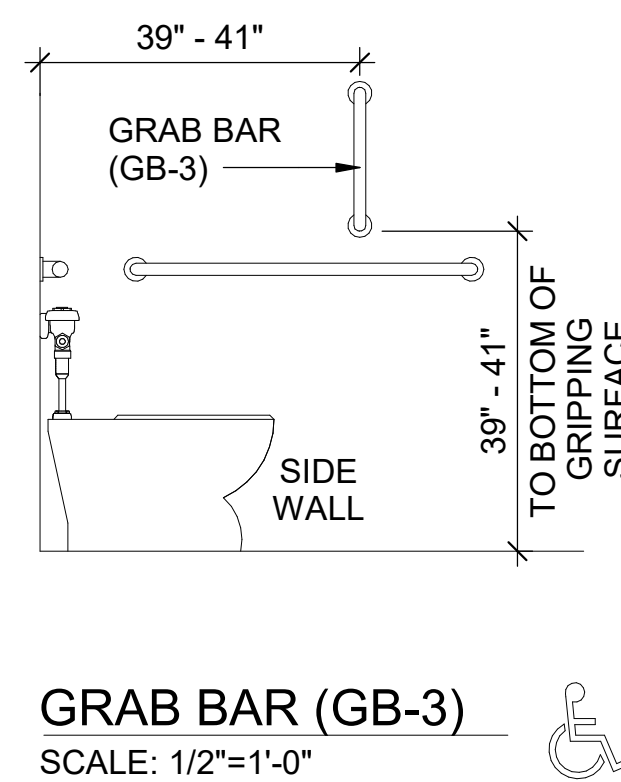
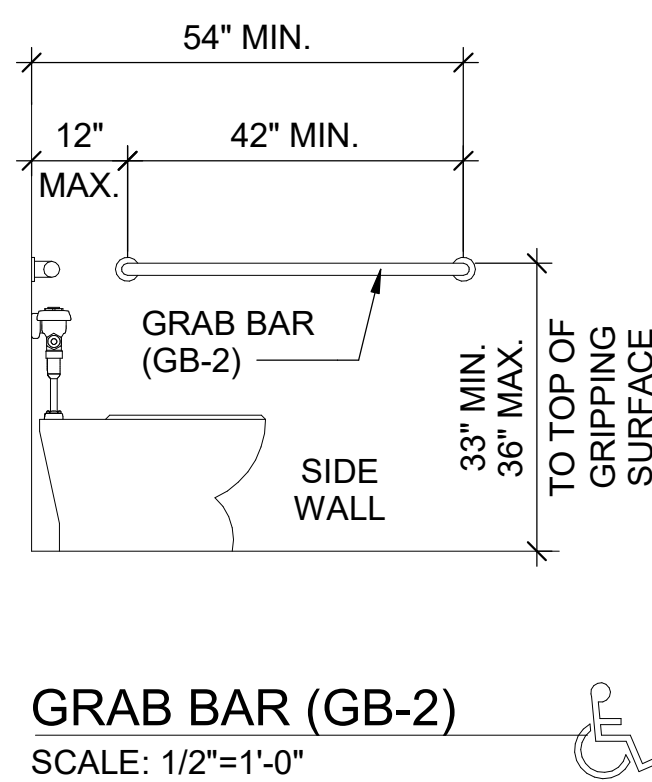
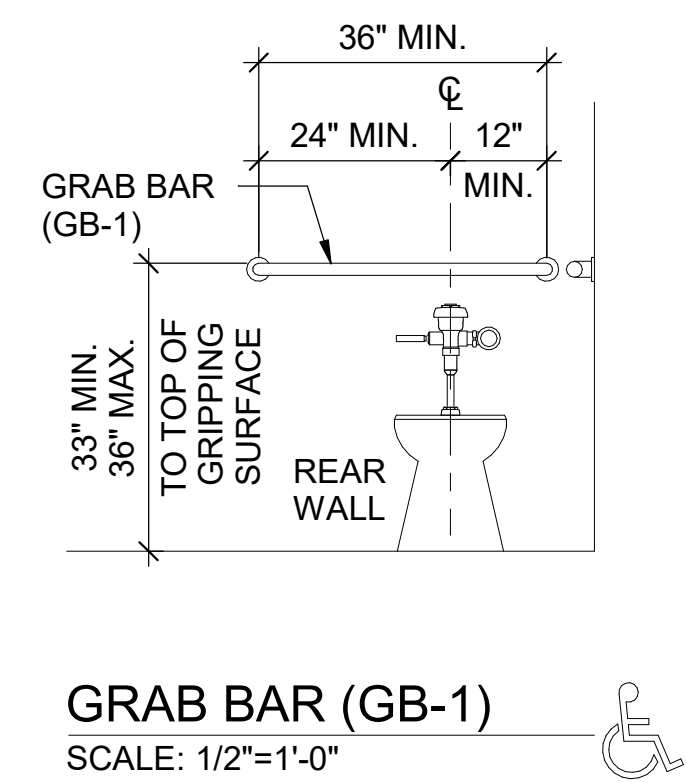
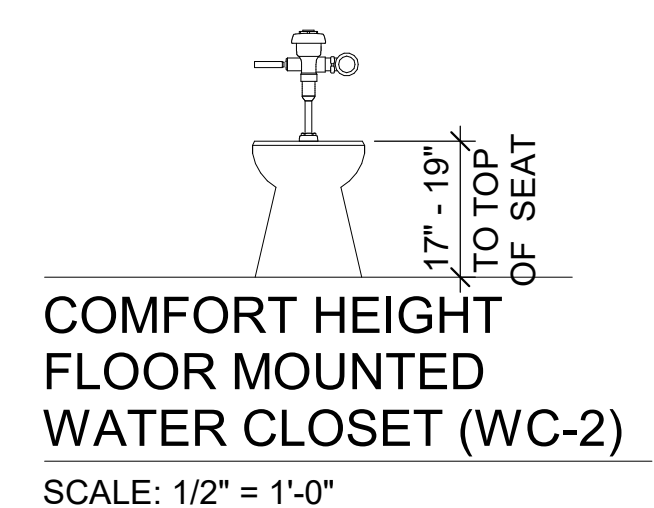
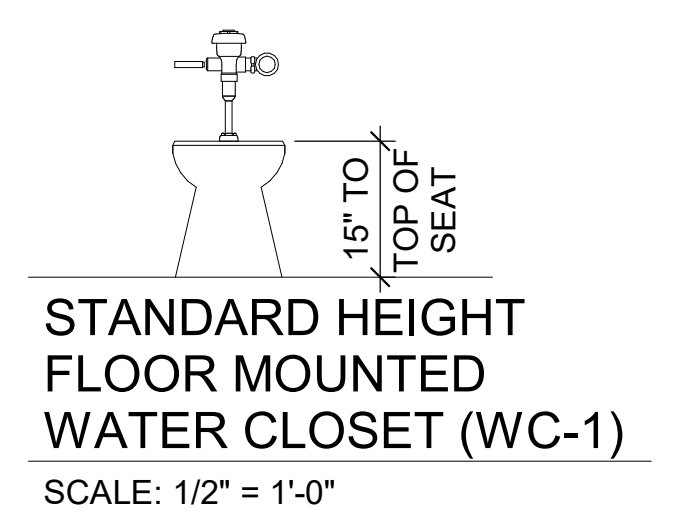
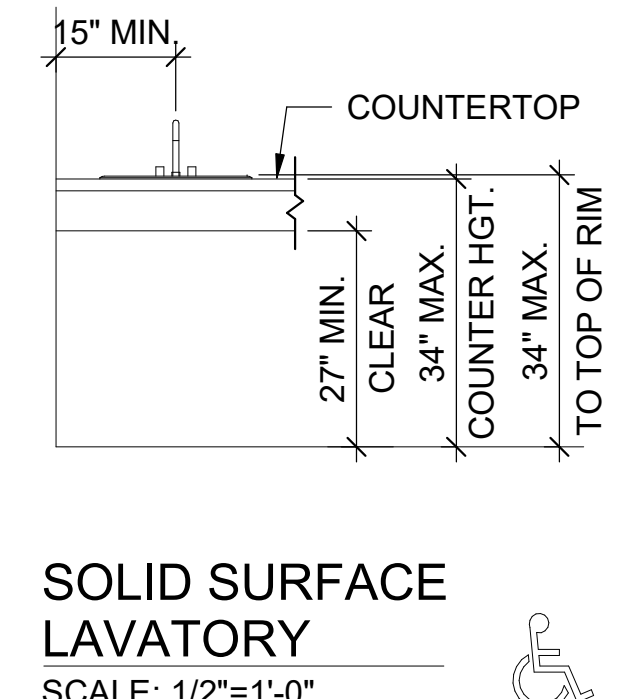
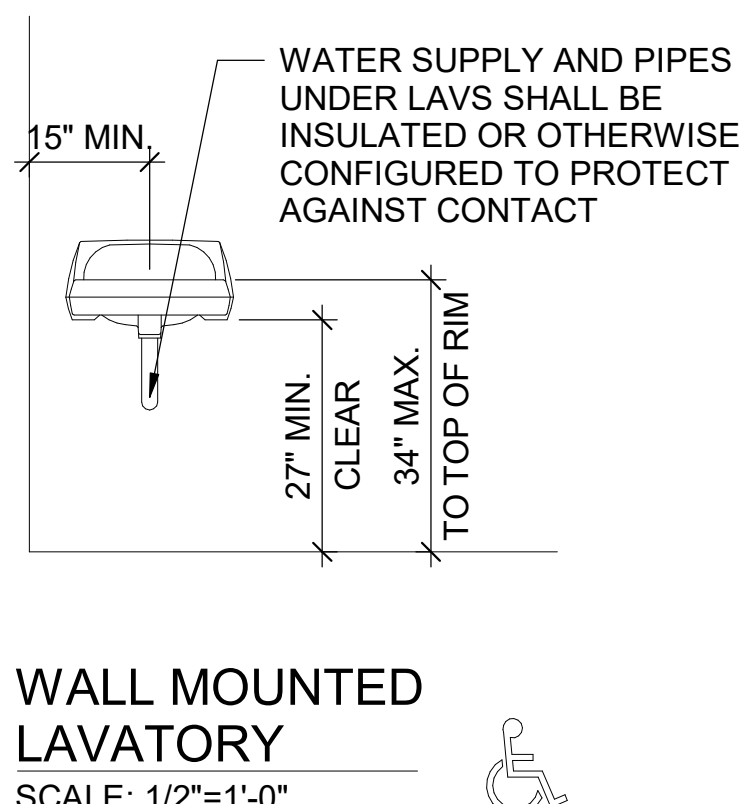
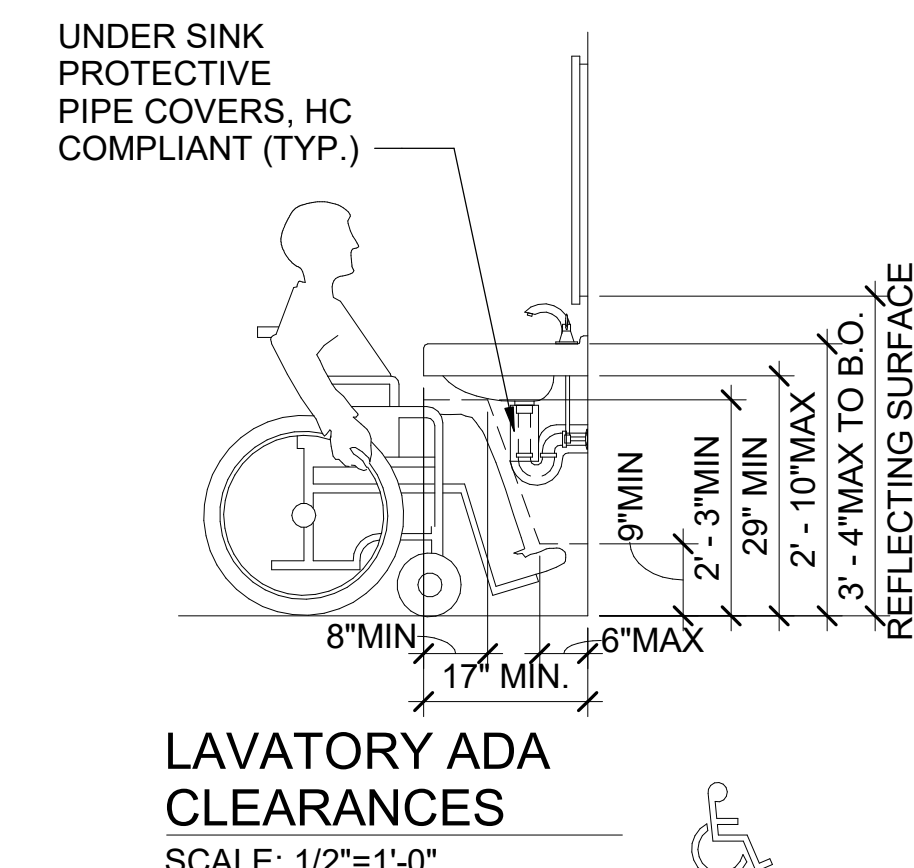
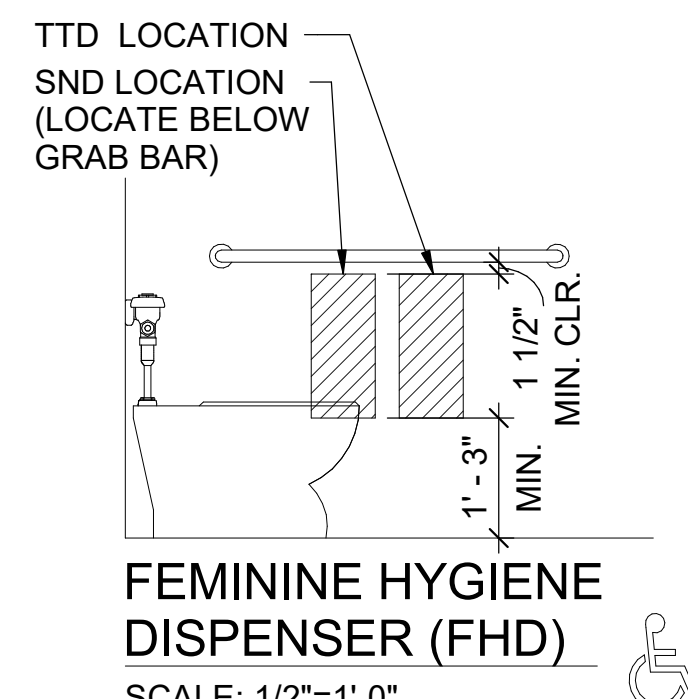
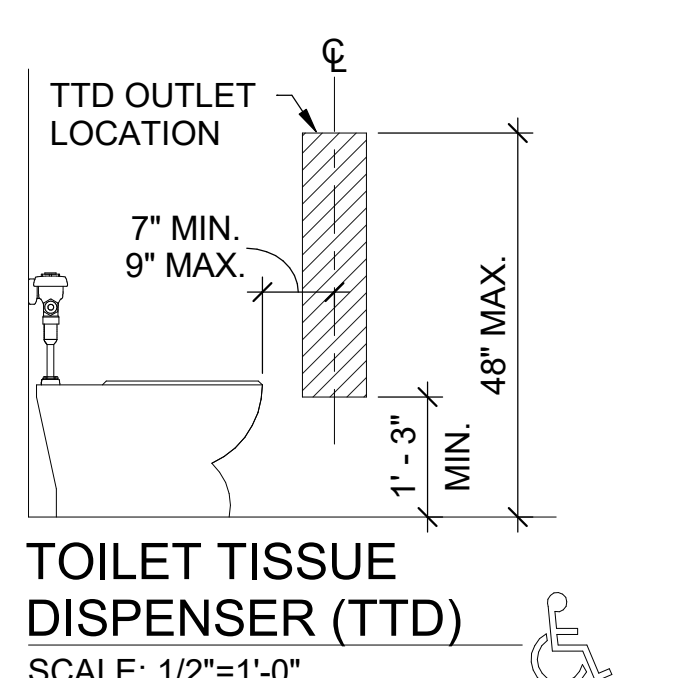
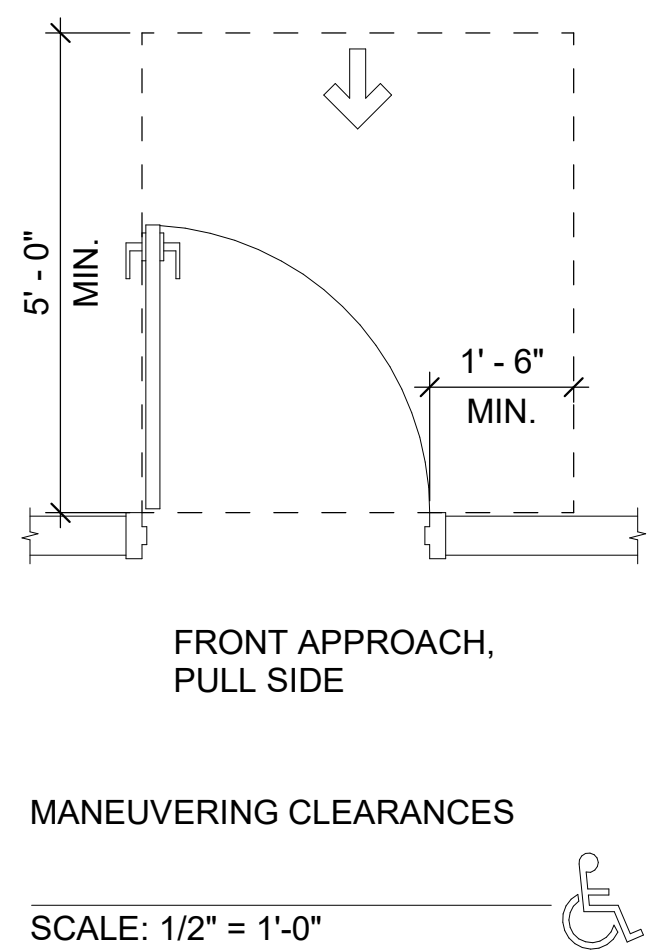
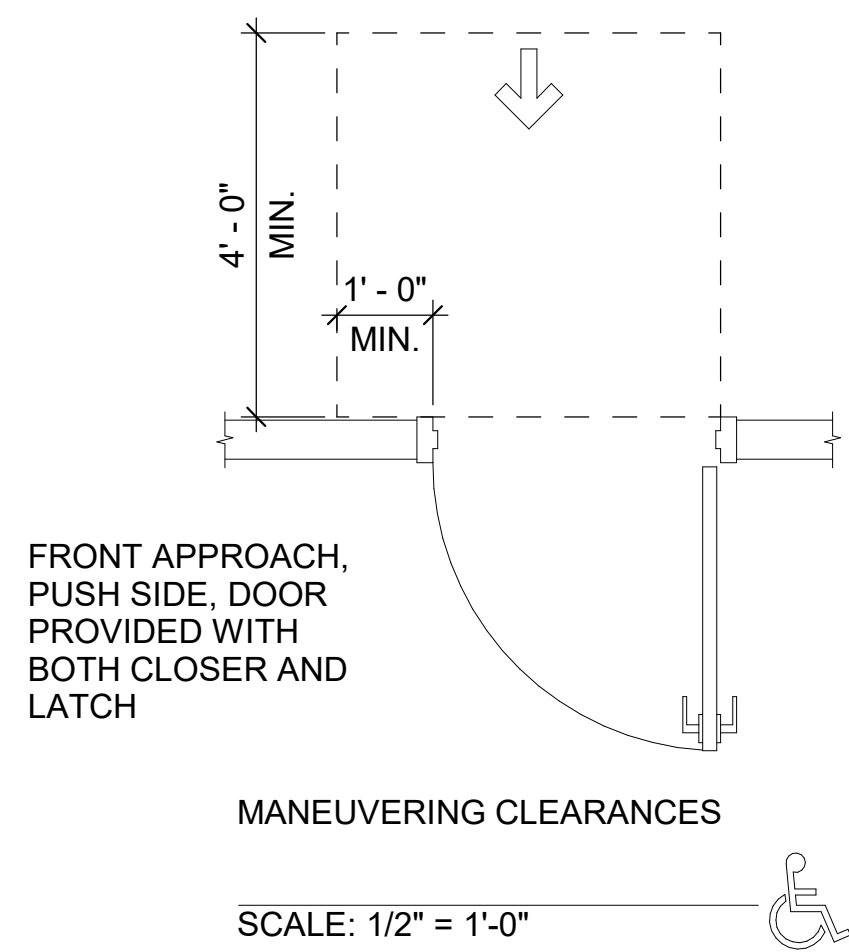
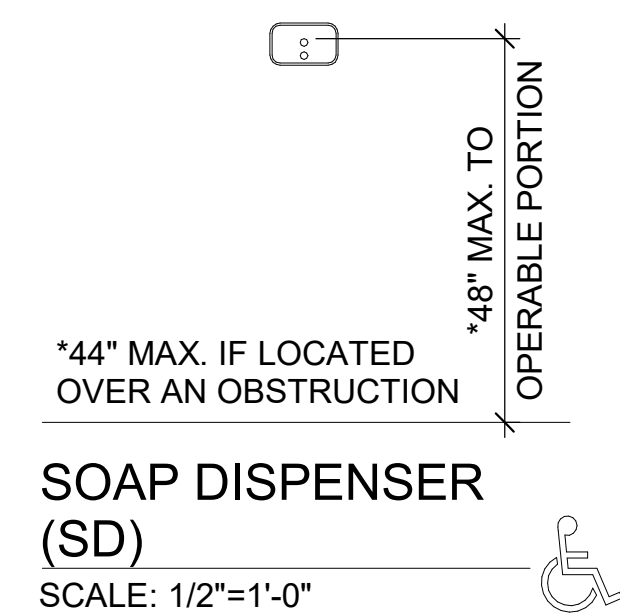
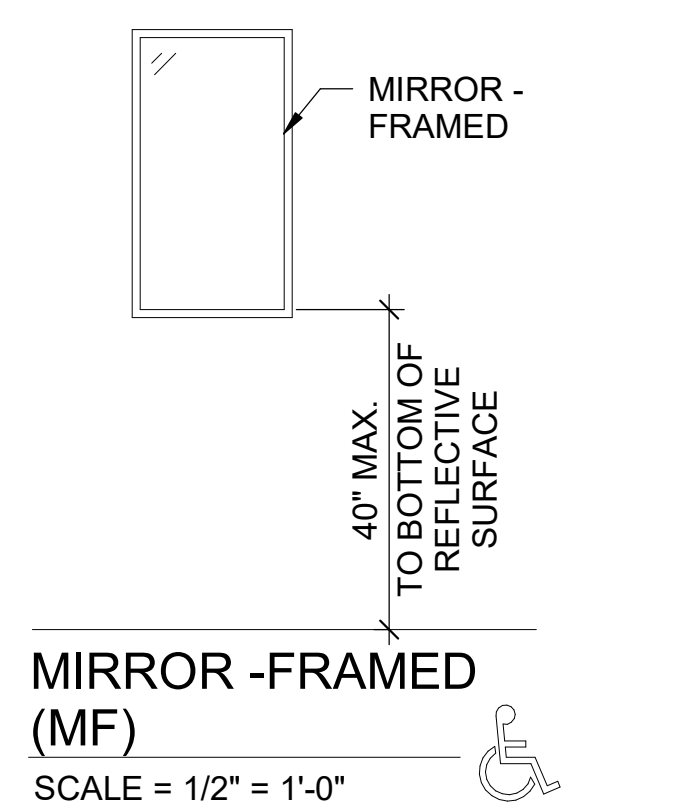
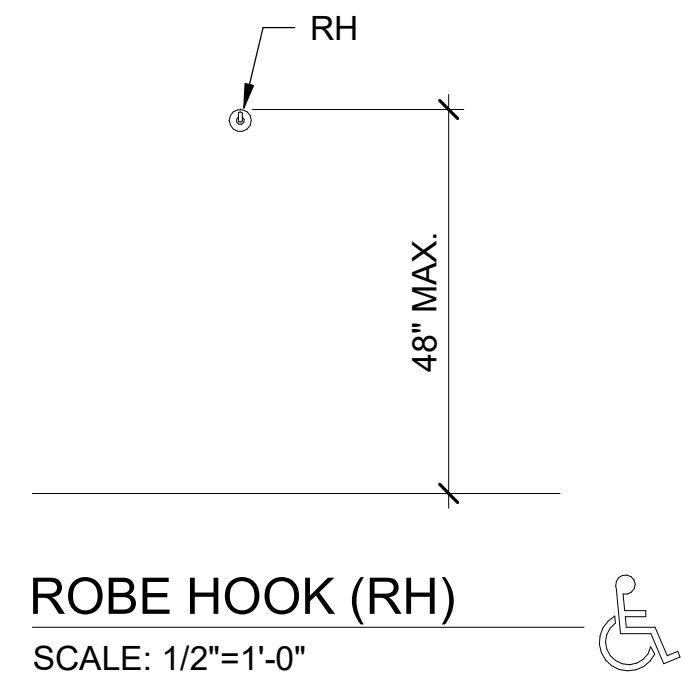
SHEET NUMBER

A-001

ORIGINAL SHEET SIZE: 22" X 34"

BIM 360://1230236 MTC Springdale Building/1230236\_MTC Springdale\_ARCH\_v21.rvt 6/7/2023 3:13:49 PM





**SHEET NOTES:**

1. THIS SHEET INDICATES TYPICAL AND ACCESSIBLE MOUNTING HEIGHTS AND ADDITIONAL CRITERIA.
2. THE ACCESSIBLE CRITERIA INDICATED ON THIS SHEET ARE IN COMPLIANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN (2010) AND ICC A117.1-2017.
3. DETAILS ON THIS SHEET INDICATING ACCESSIBLE REQUIREMENTS ARE MARKED WITH THE "INTERNATIONAL SYMBOL OF ACCESSIBILITY".
4. VERIFY MANUFACTURER'S RECOMMENDED ACCESSIBLE MOUNTING LOCATIONS WITH THOSE LISTED ON THIS SHEET.
5. CONTRACTOR TO INFORM ARCHITECT OF ANY DISCREPANCY WITH OTHER DRAWINGS PRIOR TO INSTALLATION.

"INTERNATIONAL SYMBOL OF ACCESSIBILITY"

**POND**  
1301 Gervais Street,  
Suite 1300  
Columbia  
SC 29201  
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SC. LICENSE NUMBERS:  
ARCHITECTURE: B-98107  
ENGINEERING: CO1806

EOR/AOR SEAL

LORRAINE SANTANA WHITE  
COLUMBIA, SC  
9392  
REGISTERED ARCHITECT

CLIENT INFORMATION

**MIDLANDS**  
TECHNICAL COLLEGE

PROJECT NAME

MTC -  
SPRINGDALE  
HALL  
RESTROOM -  
AIRPORT  
CAMPUS  
H59-N241-CL

1260 LEXINGTON  
DRIVE,  
COLUMBIA, SC 29170

DRAWING ISSUE

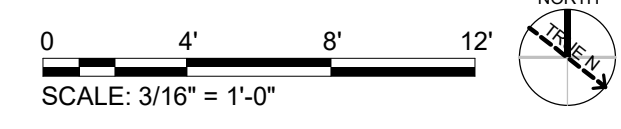
DATE	DESCRIPTION	MARK
DESIGNED BY:	GB	
DRAWN BY:	WLM	
CHECKED BY:	GB	
SUBMITTED BY:	GB	
DATE:	JUNE 7, 2023	
PROJECT #:	1230236	

SHEET TITLE

**TYPICAL MOUNTING HEIGHTS, LOCATIONS, & CLEARANCES**

SHEET NUMBER

**A-002**





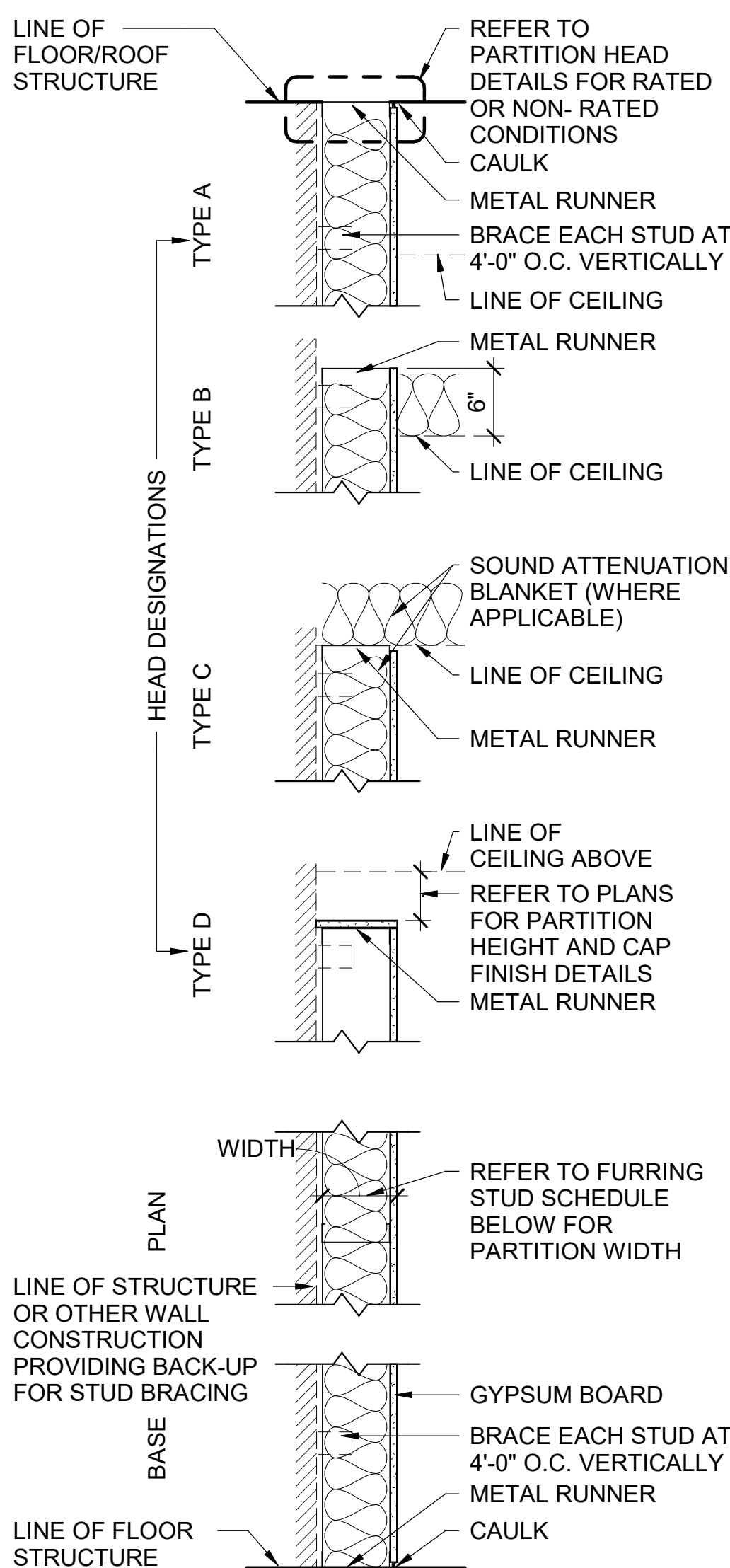
2023 Edition

TABLE 3E CODE INFORMATION FOR ADDITIONS, ALTERATIONS, OR CHANGE OF OCCUPANCY TO AN EXISTING STRUCTURE

TYPE OF PROJECT: [X] Alteration (IEBC Chaps. 7, 8 & 9) [ ] Addition (IEBC Chap. 11) [ ] Change of Occupancy (IEBC Chap. 10)
METHOD OF COMPLIANCE: [X] Option 1: Prescriptive Compliance Method (IEBC Chapter 5)
Option 2: Work Area Compliance Method (IEBC Chaps. 6-12)
Option 3: Performance Compliance Method (IEBC Chap. 13)
Original Building Code and Edition Applicable at time of Construction:
Existing Sprinkler System? [X] Yes [ ] No
Existing Fire Alarm System? [ ] Manual [X] Auto
Seismic Evaluation Required? [ ] Yes [X] No
Major Facility Project? (See §48-52-810(10)(a)) [ ] Yes [X] No
Change of Occupancy: [ ] Yes [X] No
Historic Building (IEBC Chapter 12): [ ] Preservation [ ] Rehabilitation [ ] Restoration [X] Reconstruction

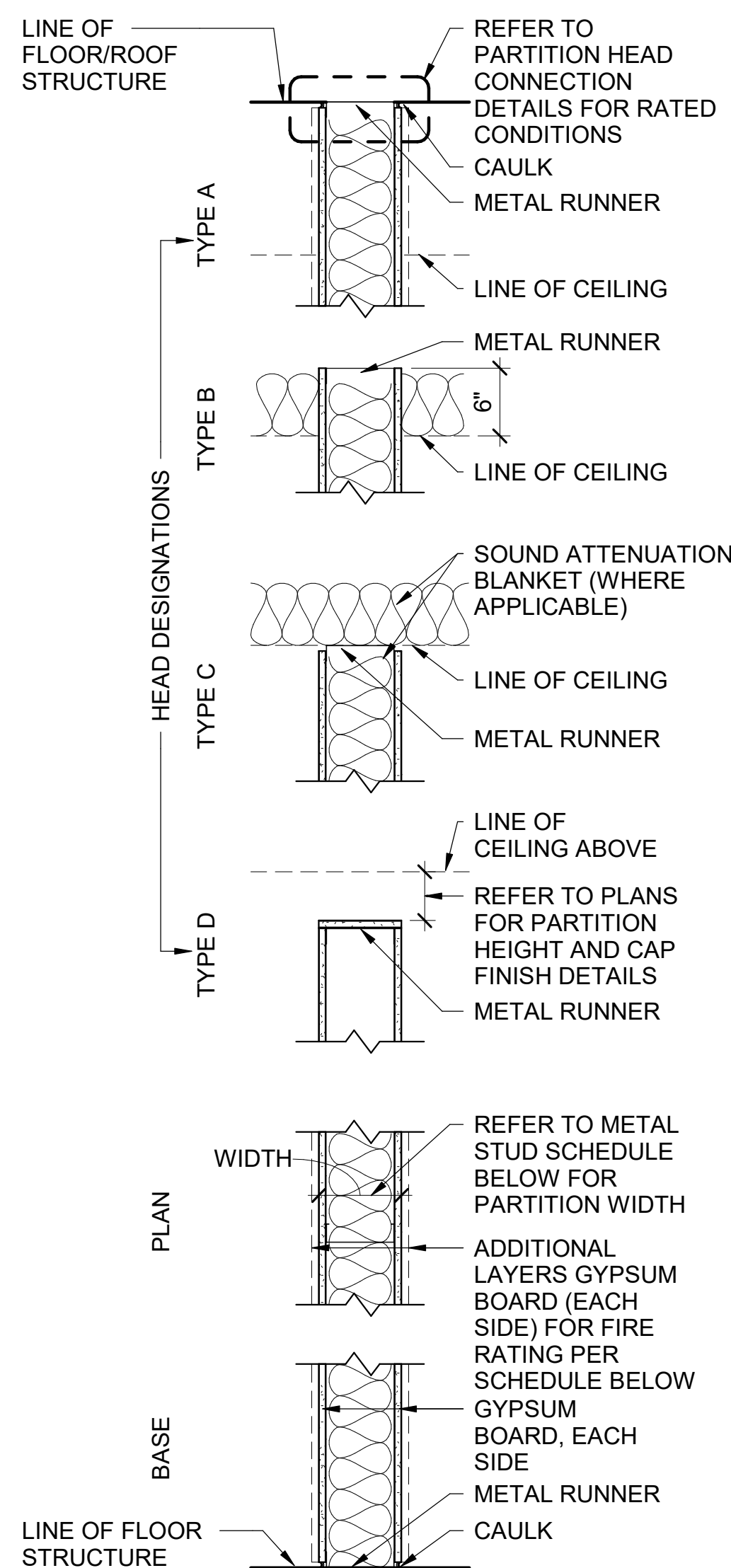
LIST OF APPLICABLE CODES:

INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION WITH SCBC MODIFICATIONS
INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2021 EDITION
INTERNATIONAL FIRE CODE (IFC), 2021 EDITION WITH SCBC MODIFICATIONS
INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009 EDITION
INTERNATIONAL MECHANICAL CODE (IMC), 2021 EDITION WITH SCBC MODIFICATIONS
INTERNATIONAL PLUMBING CODE (IPC), 2021 EDITION WITH SCBC MODIFICATIONS, AND THE FOLLOWING INSERTIONS:
- SECTION 305.4.1, INSERT "18" AND INSERT "18"
- SECTION 903.1, INSERT "8"
NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION WITH SCBC MODIFICATIONS
ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, 2017 EDITION



PARTITION TYPE F

FURRING STUD SCHEDULE table with columns: MARK, STUD WIDTH, GWB (LAYERS), PARTITION WIDTH, FIRE RATING, UL LISTING. Row F3A: 3 5/8", (1) 5/8", 4 1/4", 0 HR, N/A



PARTITION TYPE G

METAL STUD SCHEDULE table with columns: MARK, STUD WIDTH, GWB (LAYERS EACH SIDE), PARTITION WIDTH, FIRE RATING, UL LISTING. Row G3A: 3 5/8", (1) 5/8", 4 7/8", 0 HR, N/A

INTERIOR PARTITION GENERAL NOTES

- 1. PARTITION TYPES DESCRIBE GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO THE MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION.
2. REFER TO "PARTITION TYPE NOMENCLATURE" FOR SYMBOLS USED TO IDENTIFY ADDITIONAL REQUIREMENTS AND MODIFIERS TO BASIC PARTITION TYPES.
3. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
4. TYPICAL FLOOR PLAN DIMENSIONS OF PARTITIONS ARE TO FACE OF STUD OR CMU UNLESS NOTED OTHERWISE.
5. WHERE A CLEAR OPENING DIMENSION IS INDICATED, THE DIMENSION IS MEASURED FACE-TO-FACE BETWEEN FINISHED SURFACES.
6. REFER TO SPECIFICATIONS FOR MINIMUM STUD DESIGN CRITERIA, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD.
7. METAL STUD GAUGE (IF NOTED) AND UL TEST NUMBERS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.
8. REFER TO FLOOR PLANS FOR FIRE PROTECTION RATINGS.
9. RATED PARTITIONS SHALL BE LABELED ABOVE CEILING WITH LABELS PER AHJ AS REQUIRED. IBC CHAPTER 7 AT MINIMUM.
10. PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
11. INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD TO CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.
12. PROVIDE WATER RESISTANT TYPE GYPSUM BOARD AT AREAS THAT ARE NOTED IN ROOM FINISH SCHEDULE TO RECEIVE CERAMIC OR PORCELAIN TILE FINISH.
13. INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT / MOUNTING OF WALL HUNG ITEMS OR EQUIPMENT DESCRIBED IN THE DOCUMENTS. ALL BLOCKING TO BE FIRE RETARDANT TREATED.
14. PARTITIONS THAT ARE REQUIRED TO EXTEND TO THE DECK ABOVE ARE TO HAVE THE GYPSUM BOARD CUT TO FIT WITHIN A 1/4" MAXIMUM TOLERANCE TO THE SHAPE OF THE DECK ABOVE. GYPSUM BOARD SHALL BE CONTINUOUSLY SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
15. PROVIDE METAL STRAPPING @ 24" VERT. TO HOLD BATT INSULATION FOR AREAS WITHOUT GYPSUM WALLBOARD. GYPSUM BOARD IS TO BE CUT SO THAT THE CLEARANCE BETWEEN METALLIC ELECTRICAL OUTLET BOXES AND THE GYPSUM BOARD DOES NOT EXCEED 1/8".
16. THE BOTTOM OF THE GYPSUM BOARD AT INTERIOR PARTITIONS IS TO BE 1/4" MINIMUM AND 1/2" MAXIMUM ABOVE THE FLOOR STRUCTURE AND IS TO BE SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
17. AT WALLS WITH SOUND ATTENUATION BLANKETS PROVIDE SOUND ATTENUATION BLANKETS ON CEILING TO 2'-0" ON BOTH SIDES OF WALL EXCEPT AT WALLS WITH SOUND ATTENUATION BLANKETS EXTENDING TO STRUCTURE.
18. REFER TO INTERIOR FINISH SCHEDULE FOR WALL FINISHES.
19. REFER TO PARTITION TYPE MODIFIERS FOR STC RATED PARTITIONS

PARTITION TYPE NOMENCLATURE

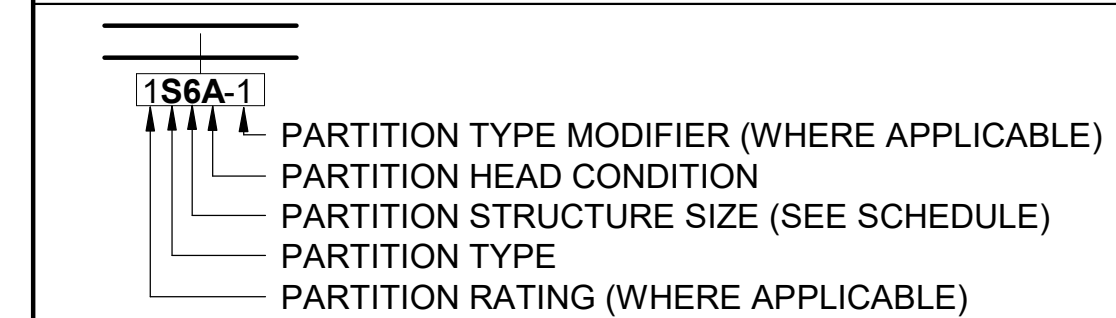
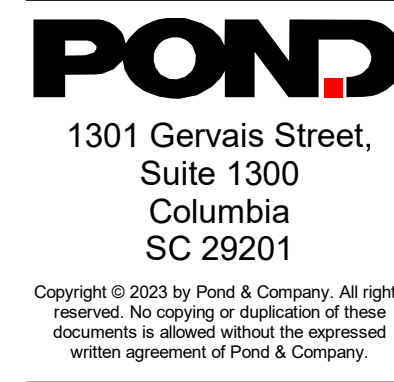
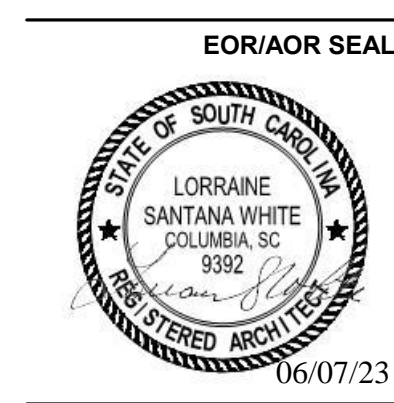


Table with columns: PARTITION TYPES, PARTITION HEAD CONDITION. Rows include M (CONCRETE MASONRY UNIT), G (METAL STUD), S (SHAFTWALL) and their corresponding head conditions (A, B, C, D).

Table with columns: PARTITION STRUCTURE WIDTH, PARTITION TYPE MODIFIER. Rows include # (0-12) and width/rating details for various partition types.



SC. LICENSE NUMBERS: ARCHITECTURE: B-98107 ENGINEERING: CO1806



1260 LEXINGTON DRIVE, COLUMBIA, SC 29170
DRAWING ISSUE

Table with columns: DATE, DESCRIPTION, MARK. Includes fields for DESIGNED BY, DRAWN BY, CHECKED BY, SUBMITTED BY, DATE, PROJECT #, SHEET TITLE, SHEET NUMBER.

DESIGNED BY: GB
DRAWN BY: WLM
CHECKED BY: GB
SUBMITTED BY: GB
DATE: JUNE 7, 2023
PROJECT #: 1230236

SHEET TITLE: PARTITION TYPES & APPLICABLE CODES

SHEET NUMBER: A-003

ORIGINAL SHEET SIZE: 22" X 34"

BIM 360://1230236 MTC Springdale Building/1230236\_MTC Springdale\_ARCH\_v21.rvt 6/7/2023 3:13:51 PM



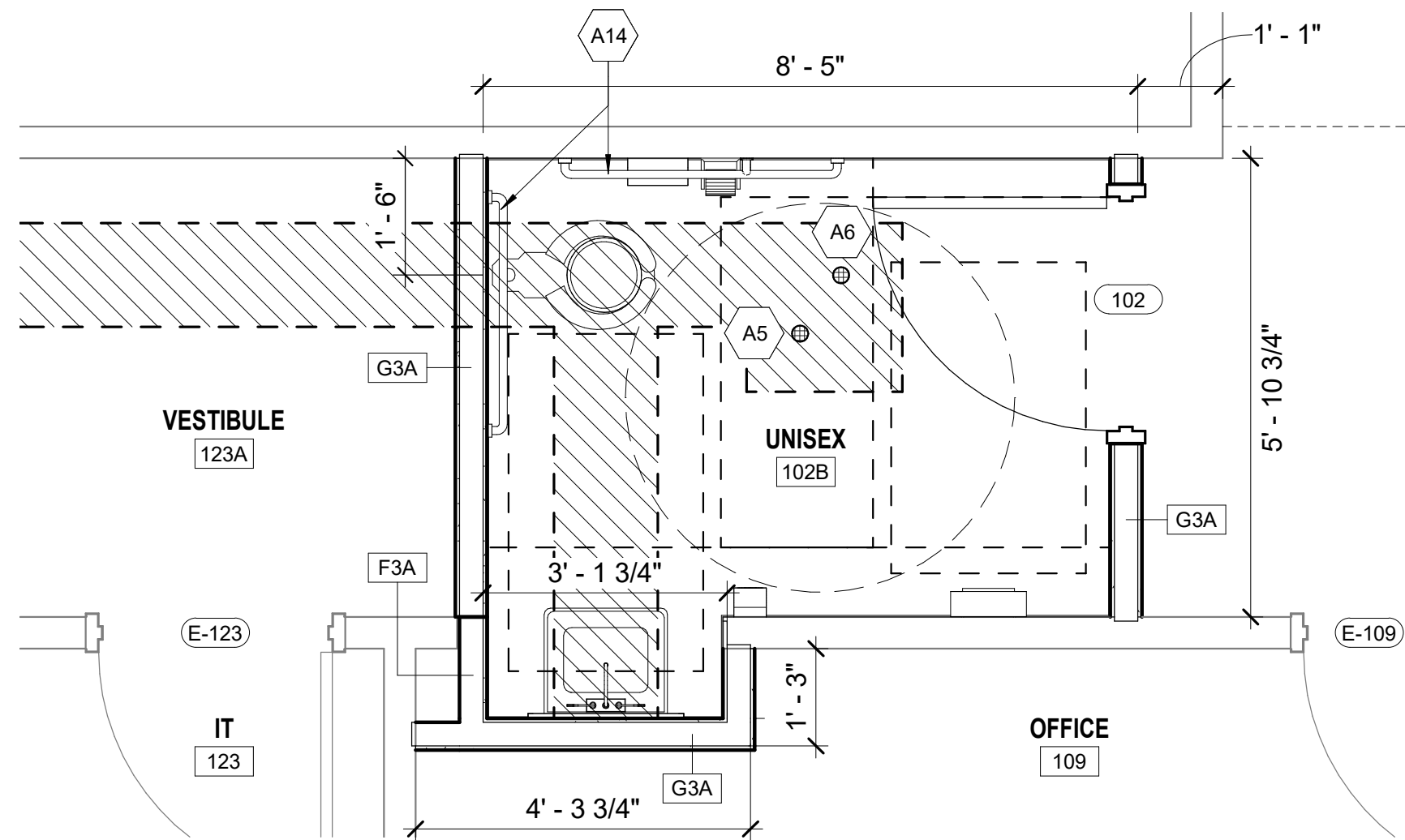
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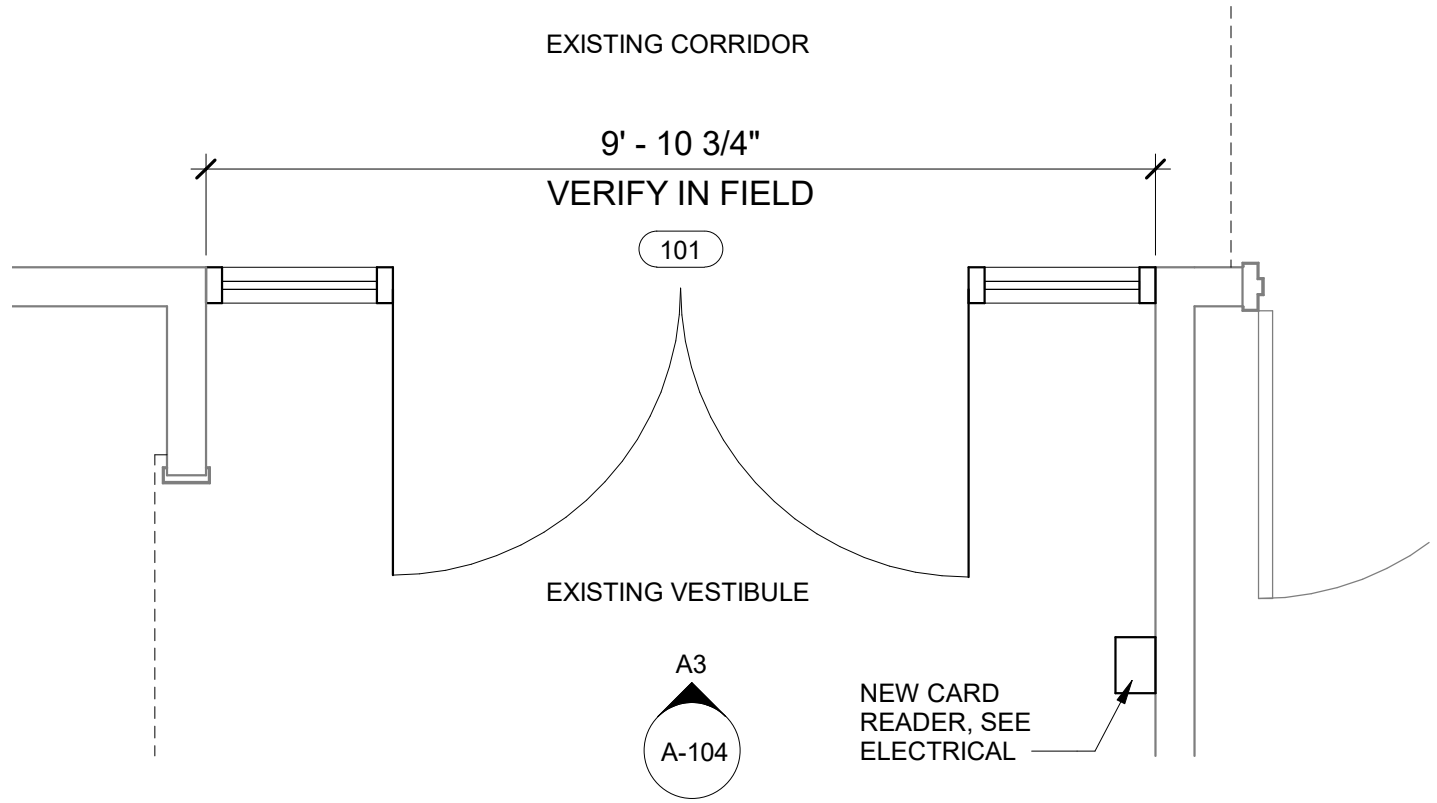
3

4

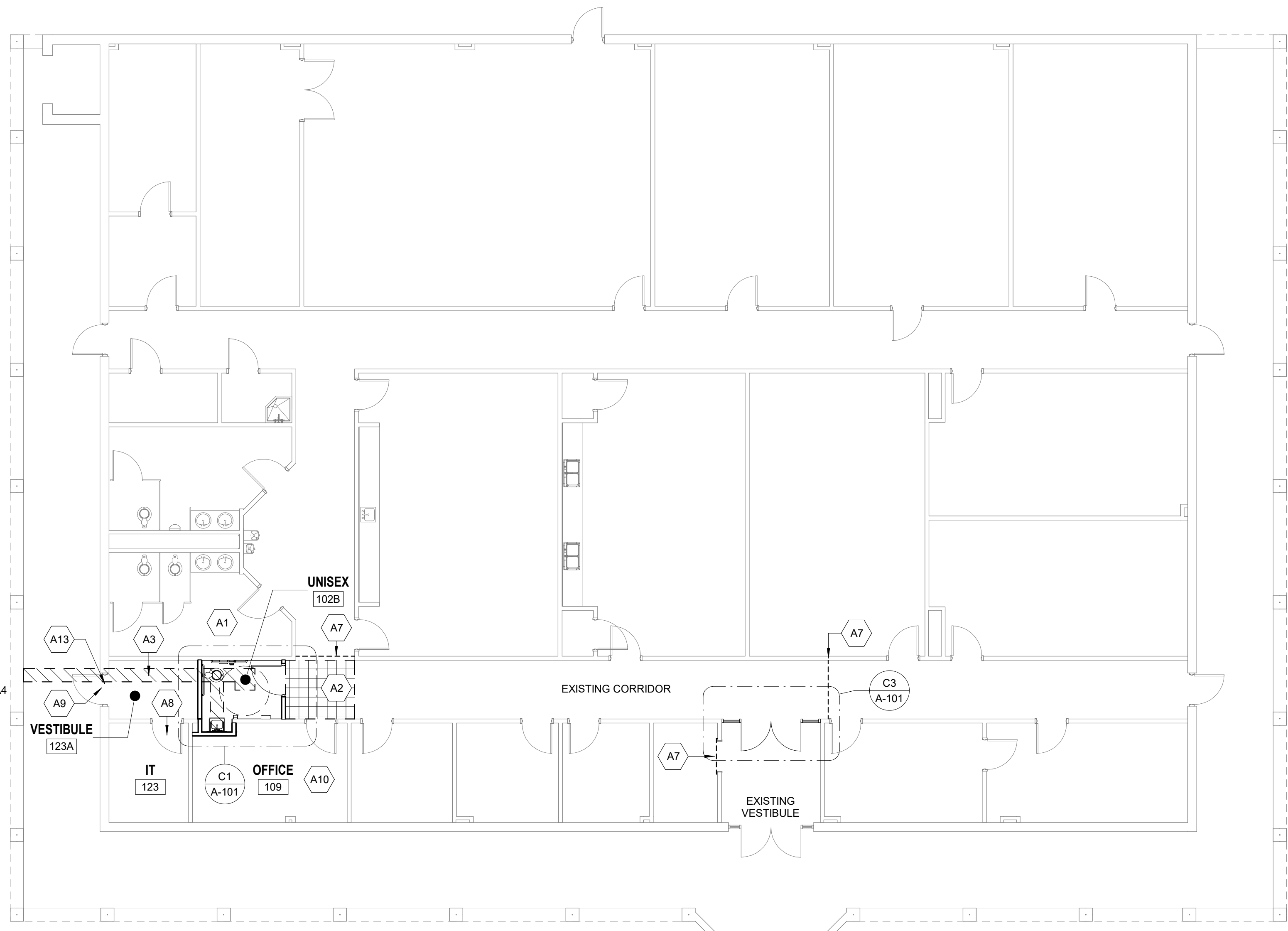
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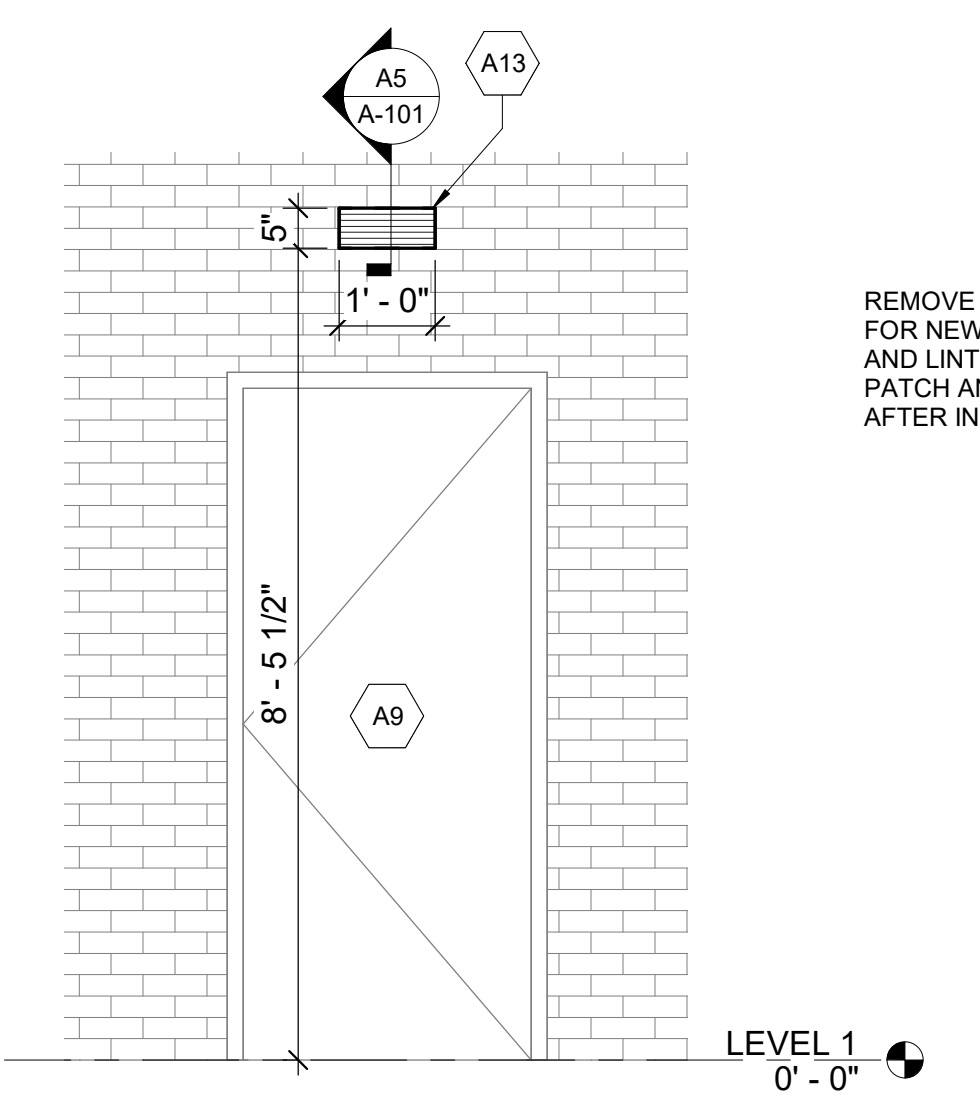
**C1 ENLARGED PLAN - UNISEX TOILET**  
SCALE: 1/2" = 1'-0"



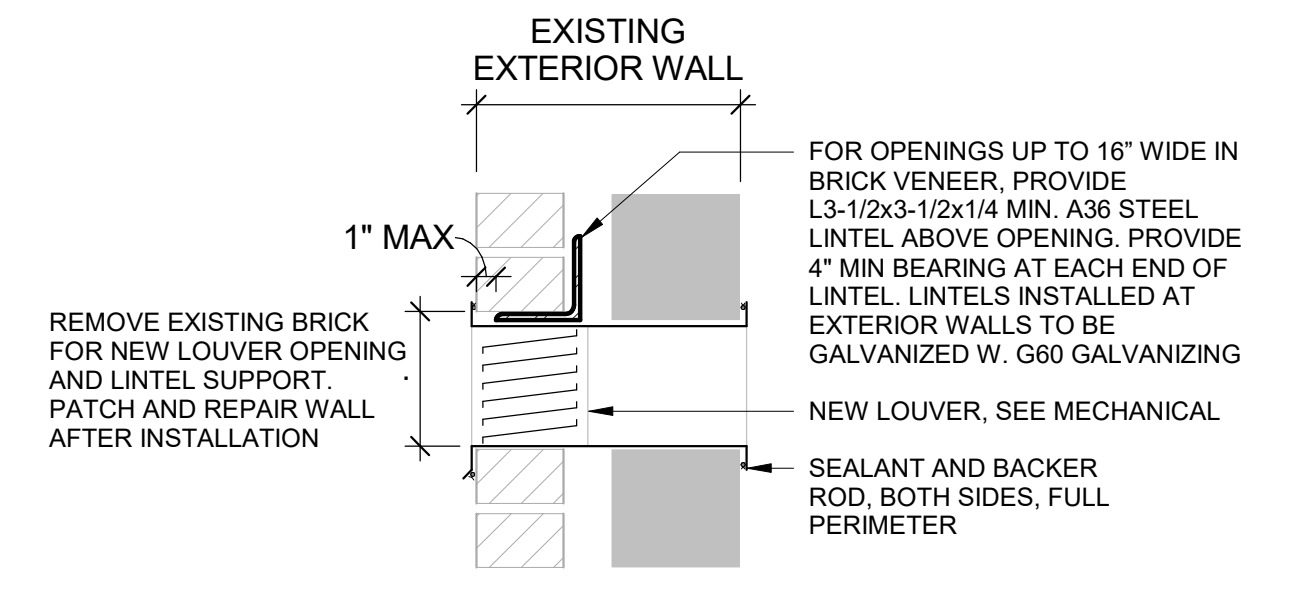
**C3 ENLARGED PLAN - STOREFRONT DOORS**  
SCALE: 1/2" = 1'-0"



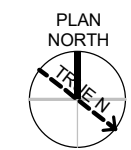
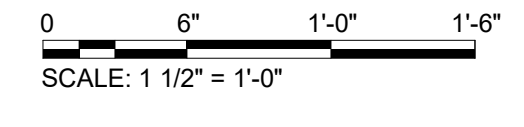
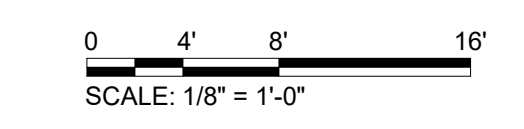
**A1 RENOVATION FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



**A4 NEW LOUVER ELEVATION**  
SCALE: 1/2" = 1'-0"



**A5 LOUVER DETAIL**  
SCALE: 1 1/2" = 1'-0"



**SHEET NOTES**

- SEE SHEET A-001 FOR GENERAL NOTES, SYMBOLS, AND MATERIALS.
- SEE SHEET A-002 FOR TYPICAL MOUNTING HEIGHTS, LOCATIONS AND CLEARANCE DETAILS.
- SEE SHEET A-003 FOR PARTITION TYPES.
- SEE SHEET A-103 FOR ROOM FINISH SCHEDULE.
- SEE SHEET A-104 FOR DOOR SCHEDULE AND TYPES.
- DIMENSIONS OF INTERIOR WALLS AND PARTITIONS ARE TO FACE OF STUD.
- CONTRACTOR SHALL LOCATE BLOCKING AND BACKING AS REQUIRED FOR WALL MOUNTED EQUIPMENT, CASEWORK/MILLWORK AND FURNISHINGS

**# KEYNOTES**

- COORDINATE WITH OWNER FOR WORK TO BE COMPLETED ABOVE CEILINGS IN EXISTING RESTROOMS. SEE PLUMBING. PROTECT ALL FINISHES, RETURN CEILINGS AND OTHER FINISHES TO EXISTING CONDITIONS AFTER WORK IS COMPLETE
- REMOVE EXISTING VCT AND REPLACE WITH NEW VINYL COMPOSITION TILE AT CORRIDOR INTERSECTION. PRESERVE REMAINING EXISTING FINISHES IN CORRIDOR
- SEE PLUMBING FOR SLAB DEMOLITION AND FOR INSTALLATION OF NEW PLUMBING. SEE SLAB-ON-GRADE REPLACEMENT DETAIL, A4 | A-104
- FLOOR DRAIN, SEE PLUMBING
- CLEAN OUT, SEE PLUMBING
- INSTALL TEMPORARY DUST BARRIER DURING CONSTRUCTION
- TAPE AND SEAL DOOR PRIOR TO CONSTRUCTION TO MINIMIZE DUST ENTRY IN IT CLOSET
- EXISTING DOOR AND FRAME TO REMAIN, PROTECT DURING CONSTRUCTION
- EXISTING FLOOR TO REMAIN, PROTECT DURING CONSTRUCTION
- SEE MECHANICAL FOR NEW LOUVER IN EXISTING EXTERIOR WALL. PROVIDE SEALANT AND BACKER ROD AT LOUVER PERIMETER. SEE LOUVER DETAIL A5 | A-101
- INSTALL METAL BACKING FOR GRAB BAR. SEE A1 | A-103



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ENGINEERING: CO1806

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CLIENT INFORMATION



PROJECT NAME

MTC -  
SPRINGDALE  
HALL  
RESTROOM -  
AIRPORT  
CAMPUS  
H59-N241-CL

1260 LEXINGTON  
DRIVE,  
COLUMBIA, SC 29170

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: GB

DRAWN BY: WLM

CHECKED BY: GB

SUBMITTED BY: GB

DATE: JUNE 7, 2023

PROJECT #: 1230236

SHEET TITLE

RENOVATION  
FLOOR PLAN

SHEET NUMBER

**A-101**

ORIGINAL SHEET SIZE:  
22" X 34"

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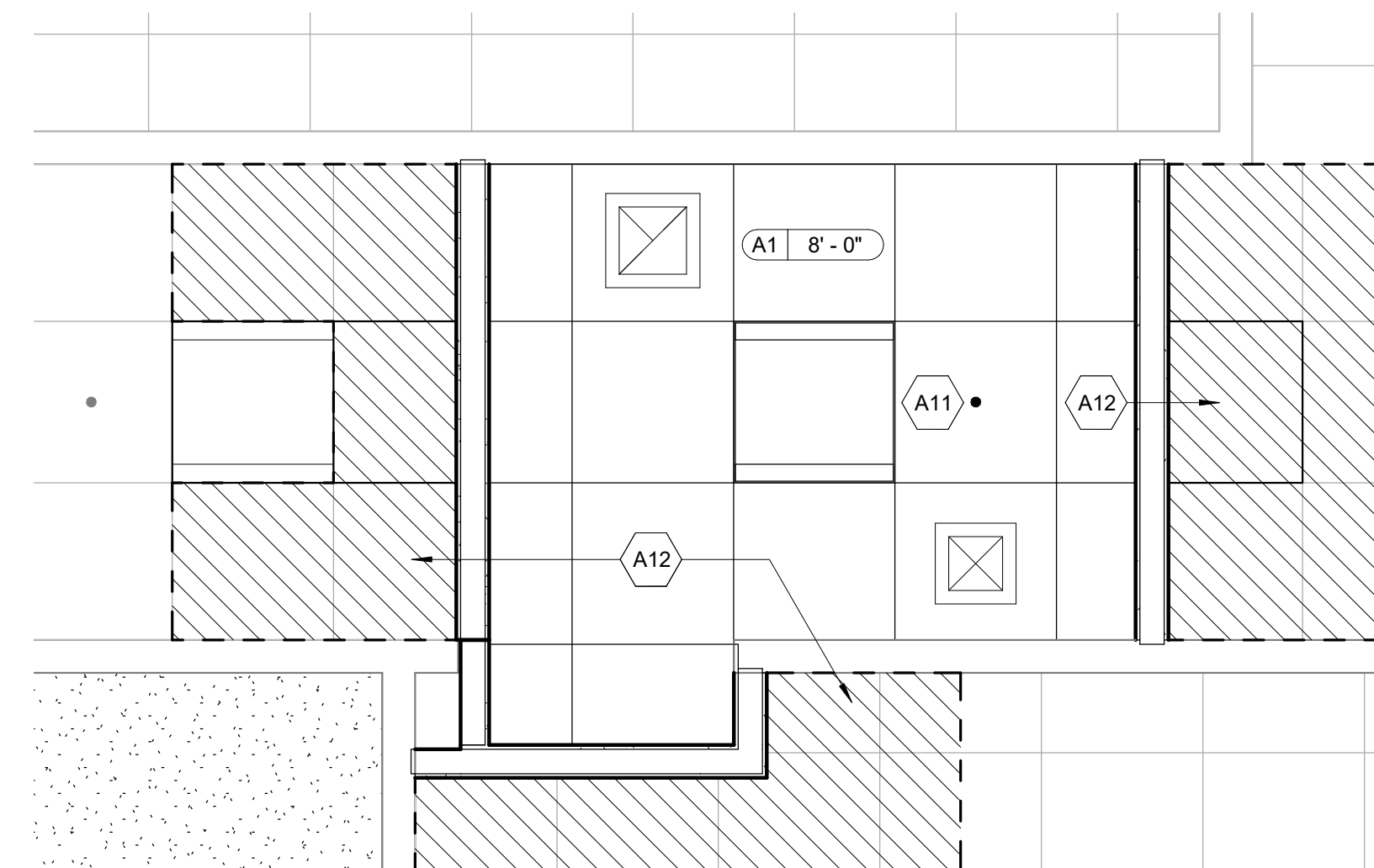
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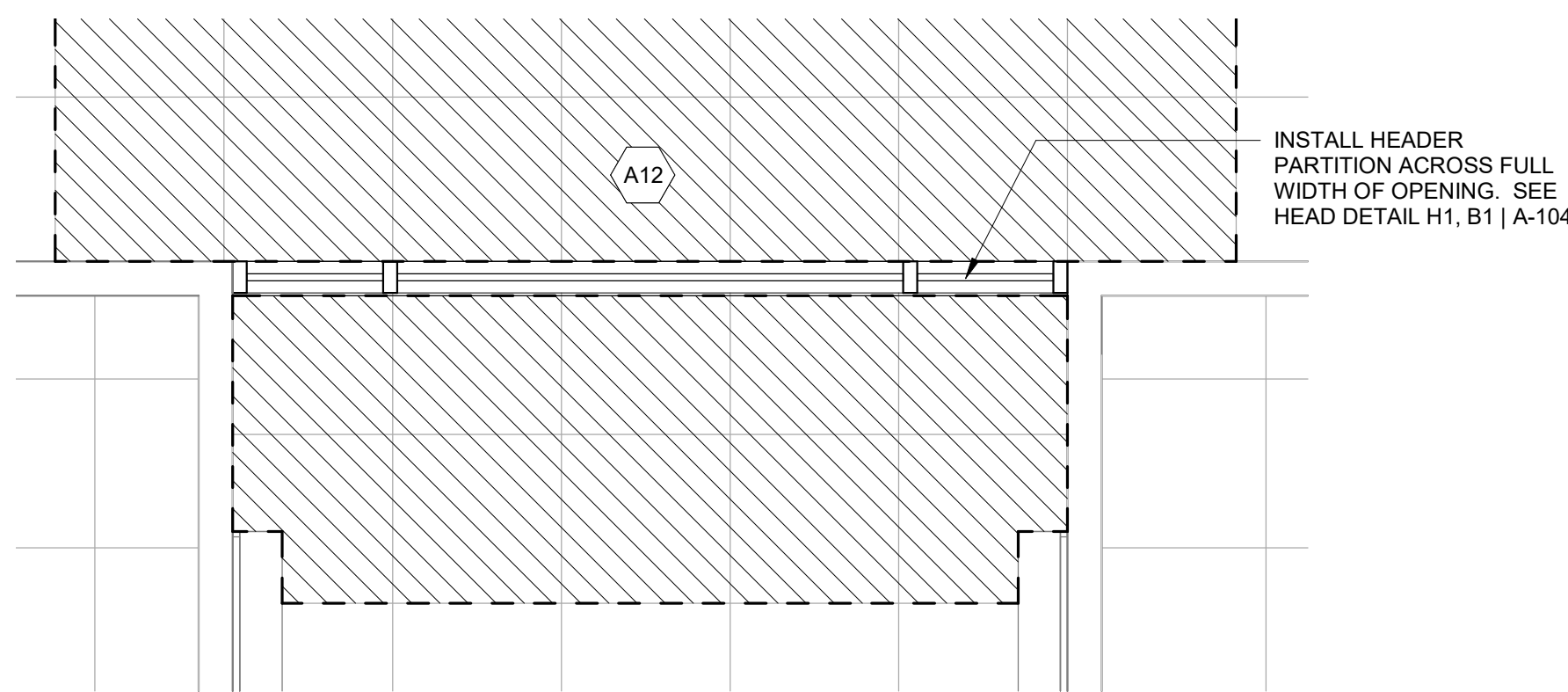
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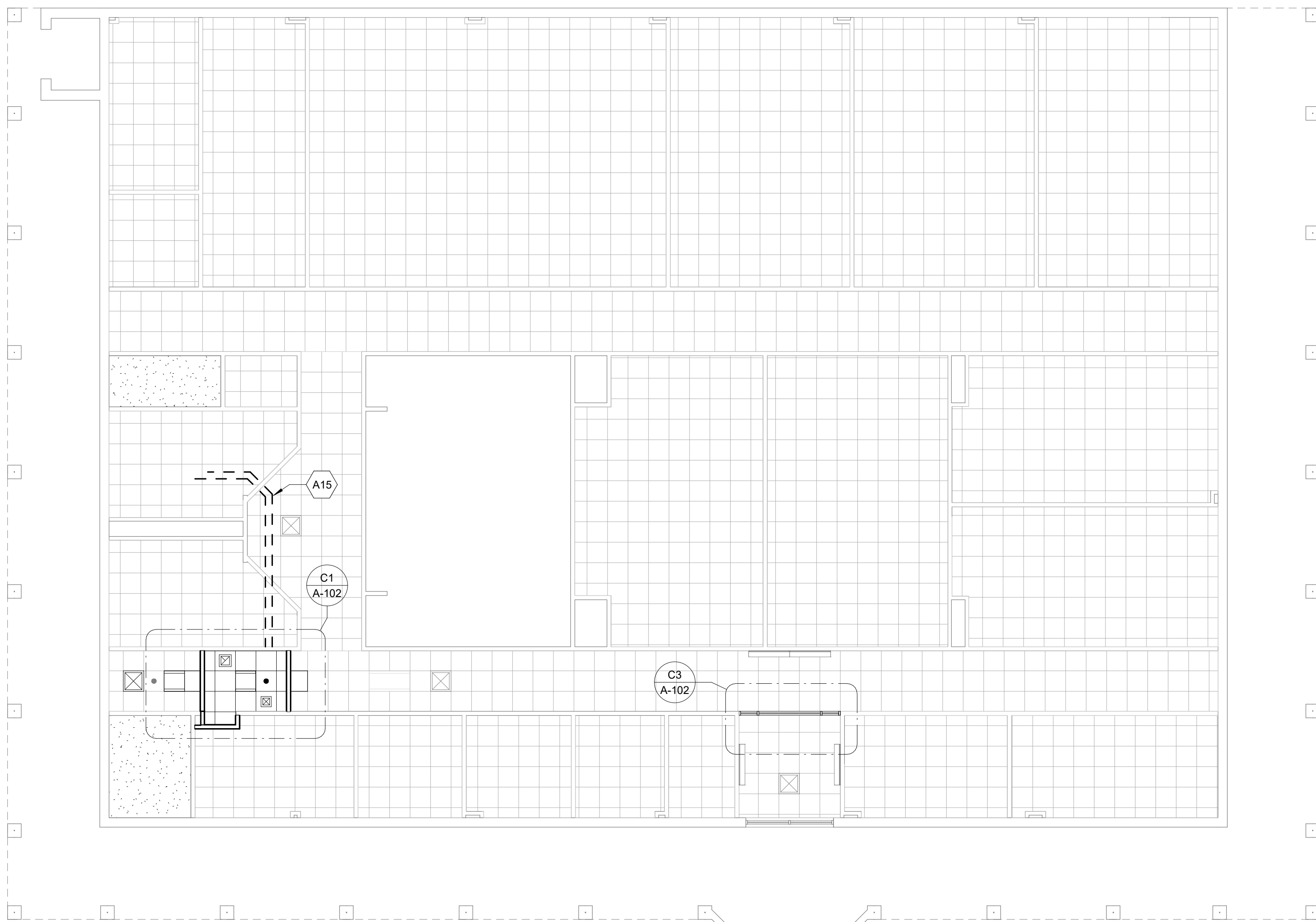
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**C1 REFLECTED CEILING PLAN - UNISEX TOILET**  
SCALE: 1/2" = 1'-0"



**C3 REFLECTED CEILING PLAN - STOREFRONT DOORS**  
SCALE: 1/2" = 1'-0"



**A1 REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0"

**SHEET NOTES**

- ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN BOTH DIRECTIONS IN ACOUSTICAL CEILING PANELS U.N.O. CENTER SPRINKLER HEADS IN ACOUST. CEILING PANELS WHERE THEY OCCUR - COORDINATE THE LOCATION OF THE SPRINKLER HEADS WITH OTHER CEILING FIXTURES AND EQUIPMENT IN ALL CEILING. ENSURE THAT A SYMMETRICAL AND BALANCED ARRANGEMENT IS INSTALLED.
- CEILING HEIGHTS INDICATED (I.E. 9'-0") ARE RELATIVE TO THE FINISH FLOOR ELEVATION OF THE ROOM FOR WHICH THEY ARE INDICATED.
- CEILING GRIDS SHALL BE ORIENTED WITHIN SPACES AS SHOWN, U.N.O. FULL TILE (FT) WHERE INDICATED, SHALL ABUT DESIGNATED WALL. LIMIT PARTIAL PANELS TO NO LESS THAN 6".
- DEVICES HAVE BEEN SHOWN FOR COORDINATION PURPOSES. ALL DEVICES MAY NOT BE SHOWN.
- THE CONTRACTOR SHALL ENSURE THE INSTALLATION OF ALL DEVICES INDICATED ON THE ENGR. DWG. SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ITEMS NOT SHOWN ON REFLECTED CEILING PLANS. CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
- AT WALLS WITH SOUND ATTENUATION BLANKETS PROVIDE SOUND ATTENUATION BLANKETS ON CEILING TO 2'-0" ON BOTH SIDES OF WALL EXCEPT AT WALLS WITH SOUND ATTENUATION BLANKETS EXTENDING TO STRUCTURE.

**# KEYNOTES**

- A11 ADJUST SPRINKLER HEAD TO NEW LOCATION, SEE FIRE PROTECTION DRAWINGS, SP1
- A12 REMOVE PORTION OF EXISTING CEILING PANELS AND SUSPENSION GRID TO CEILING GRID MEMBER INDICATED TO CONSTRUCT NEW PARTITIONS, REINSTALL ONCE COMPLETE
- A15 SEE PLUMBING FOR ABOVE CEILING PIPE WORK

**LEGEND**

- 2' X 4' LAY-IN LIGHT FIXTURE
- 2' X 2' LAY-IN LIGHT FIXTURE
- SUPPLY AIR DEVICE
- EXHAUST AIR DEVICE
- A1 2'-0" x 2'-0" ACOUSTICAL CEILING SYSTEM
- B1 5/8" GYPSUM BOARD



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CAMPUS  
H59-N241-CL

1260 LEXINGTON  
DRIVE,  
COLUMBIA, SC 29170

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: GB  
DRAWN BY: WLM  
CHECKED BY: GB  
SUBMITTED BY: GB  
DATE: JUNE 7, 2023  
PROJECT #: 1230236

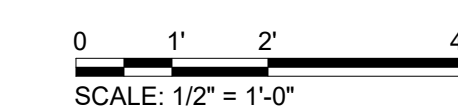
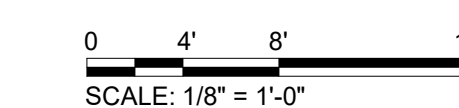
SHEET TITLE

REFLECTED  
CEILING PLAN

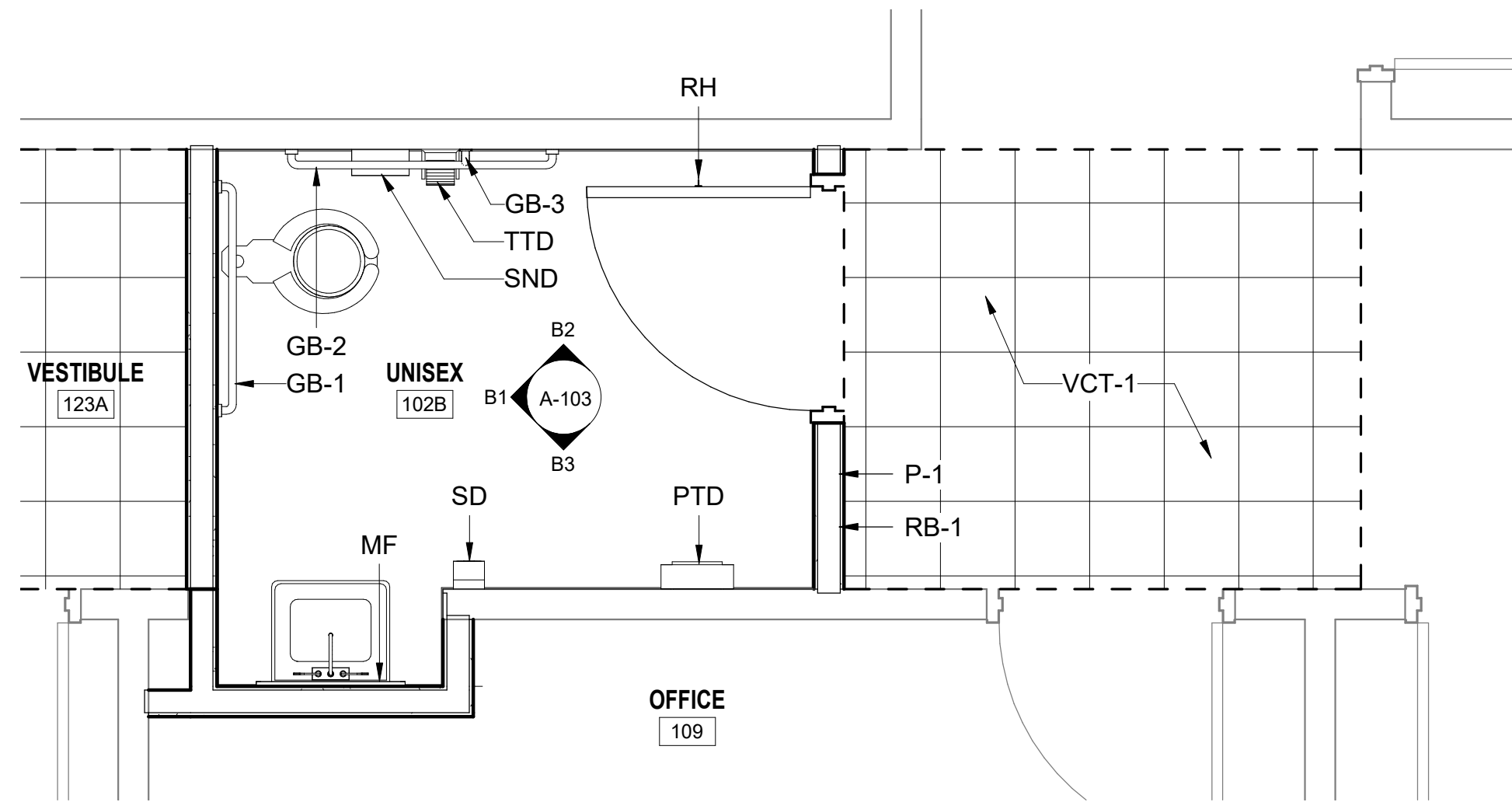
SHEET NUMBER

**A-102**

ORIGINAL SHEET SIZE:  
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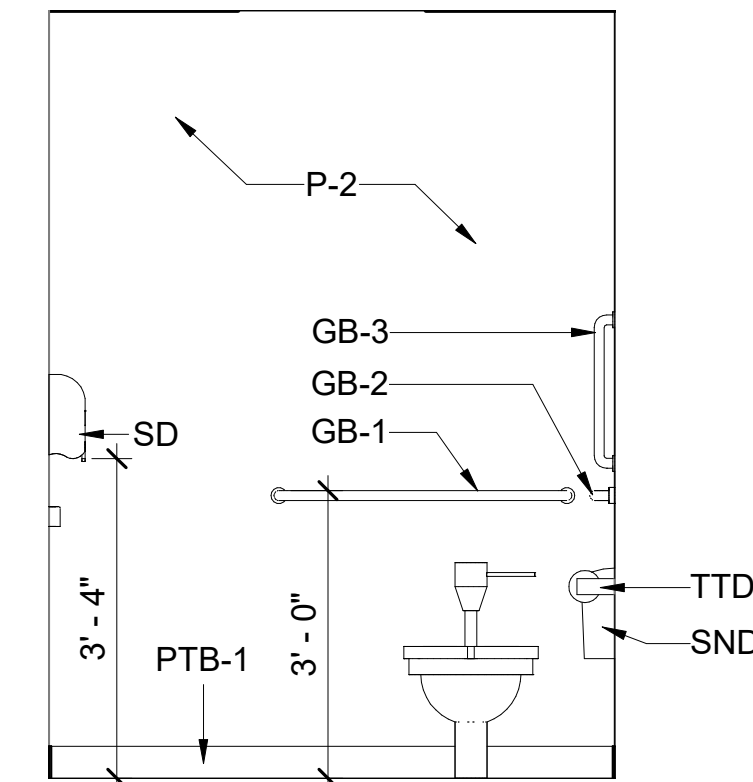
ROOM NO.	ROOM NAME	FLOOR		WALLS				CEILING
		MAT.	BASE	NORTH	EAST	SOUTH	WEST	
102B	UNISEX	PT-1	PTB-1	P-1	P-1	P-1/P-2	P-2	ACT-1
109	OFFICE	EXISTING	RB-1	P-1	P-1	P-1	P-1	EXISTING
123	IT	-	-	-	-	-	-	-
123A	VESTIBULE	VCT-1	RB-1	P-1	P-1	P-1	P-1	ACT-1

MARK	DESCRIPTION
GB-1	36" GRAB BAR
GB-2	42" GRAB BAR
GB-3	18" GRAB BAR
MF	MIRROR - FRAMED
PTD	ACCESSIBLE PAPER TOWEL DISPENSER
RH	ROBE HOOK
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
TTD	TOILET PAPER DISPENSER

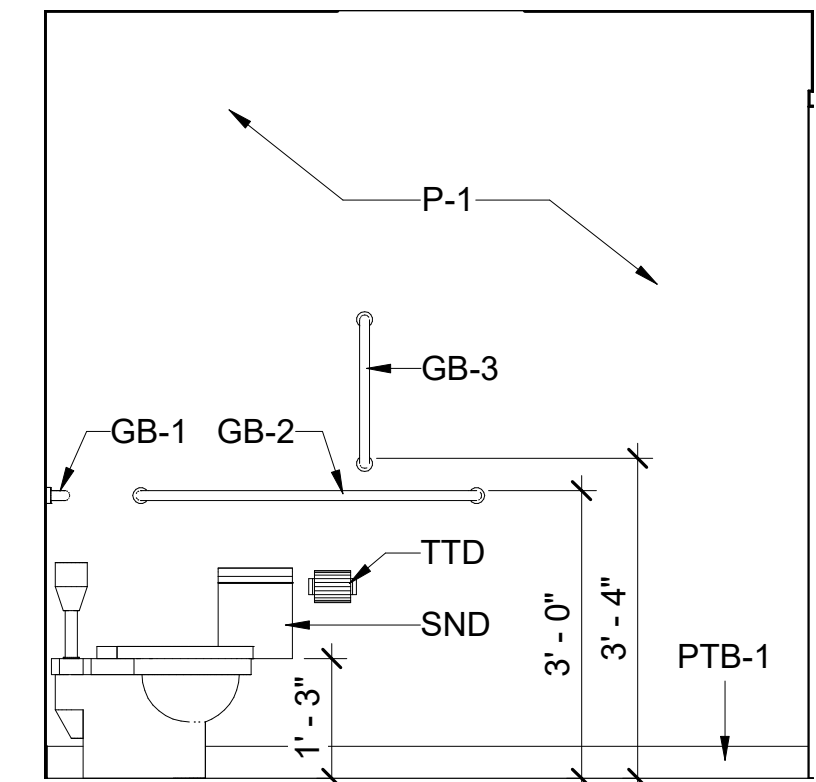
**FINISH LEGEND**

- CEILING**
- ACT-1 ACOUSTICAL CEILING TILE: ARMSTRONG CEILING, DUNE 1850, SIZE: 24" X 24", SQUARE LAY-IN 15/16", WHITE
- WALLS**
- P-1 PAINT: SHERWIN WILLIAMS, EPOXY PAINT, EIDER WHITE SW7014, SATIN FINISH
  - P-2 PAINT: SHERWIN WILLIAMS, EPOXY PAINT, GOSSAMER VEIL SW9165, SATIN FINISH
- FLOORS**
- PT-1 PORCELAIN TILE: DAL TILE, LINDEN POINT LP21, GRIGIO 12X24
  - PTB-1 PORCELAIN TILE BASE: DAL TILE, LINDEN POINT LP21, GRIGIO, BULLNOSE 3X12, P43C9
  - VCT-1 VINYL COMPOSITION TILE: AZROCK COLLECTION, #V-223 STONE NEUTRAL, 12X12
  - RB-1 RUBBER BASE: JOHNSONITE, COVE BASE, 4", MEDIUM GRAY 28

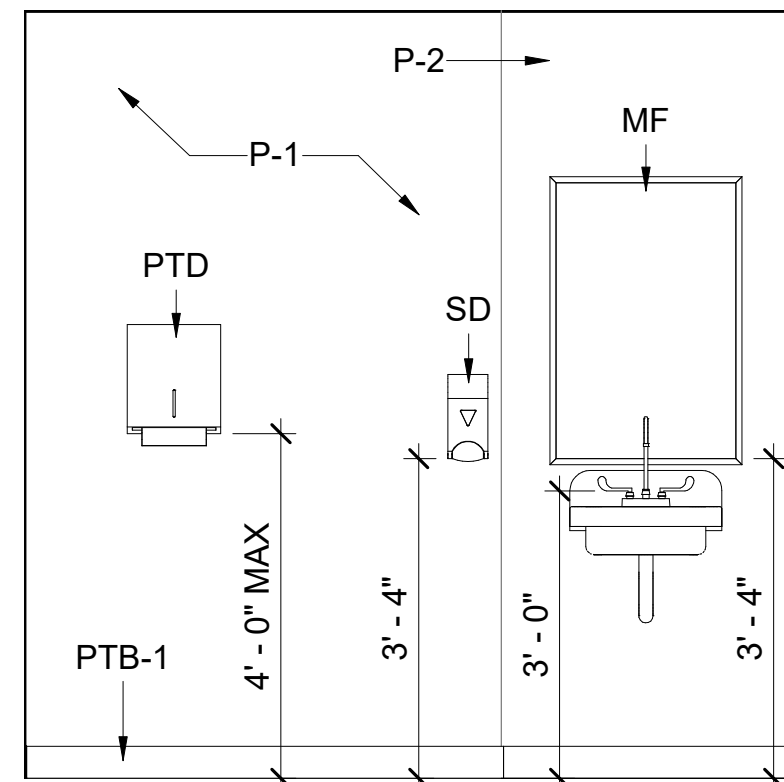
**C1 RESTROOM ACCESSORY PLAN**  
SCALE: 1/2" = 1'-0"



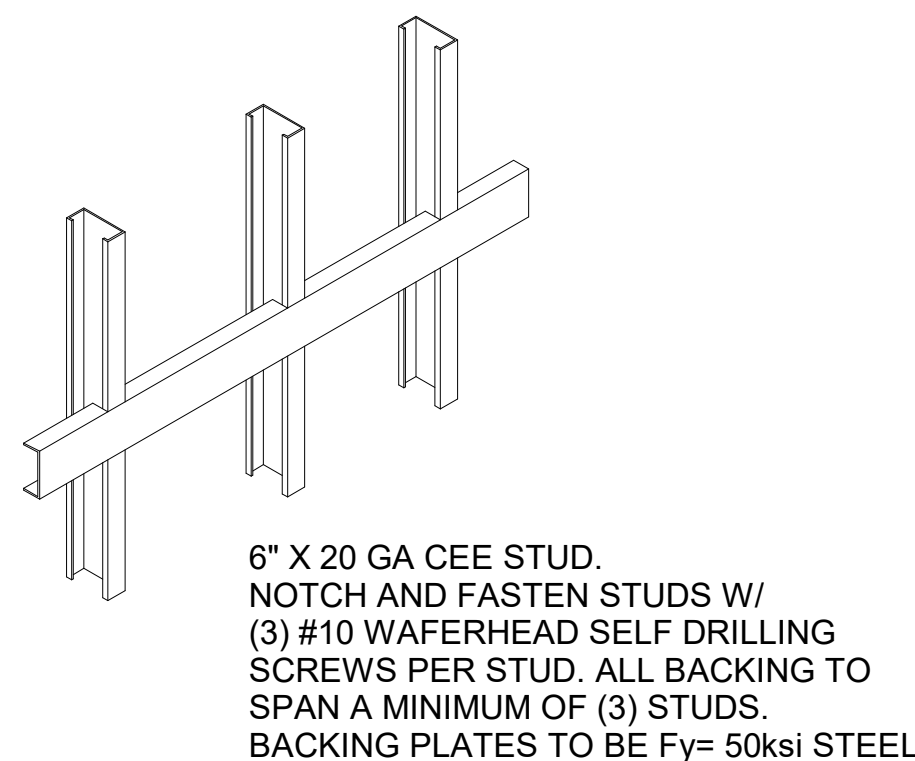
**B1 RESTROOM ELEVATION**  
SCALE: 1/2" = 1'-0"



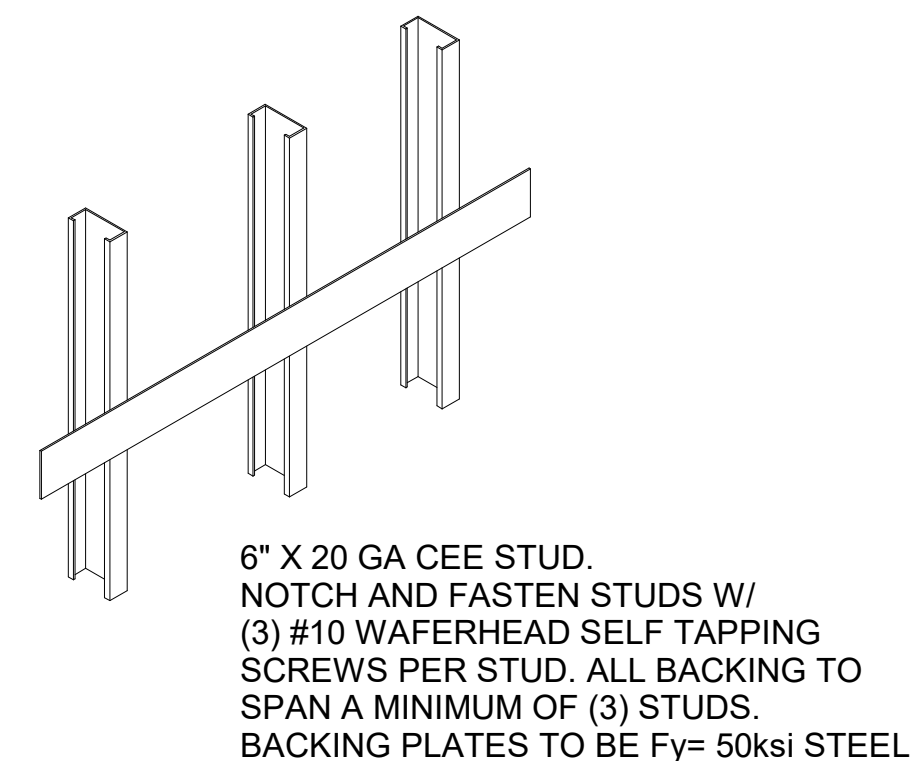
**B2 RESTROOM ELEVATION**  
SCALE: 1/2" = 1'-0"



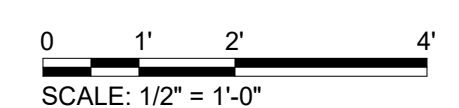
**B3 RESTROOM ELEVATION**  
SCALE: 1/2" = 1'-0"



**A1 BACKING OPTIONS**  
N.T.S



**A2 BACKING OPTIONS**  
N.T.S



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ENGINEERING: CO1806



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AIRPORT  
CAMPUS  
H59-N241-CL

1260 LEXINGTON  
DRIVE,  
COLUMBIA, SC 29170  
DRAWING ISSUE

DATE	DESCRIPTION	MARK
DESIGNED BY:	GB	
DRAWN BY:	WLM	
CHECKED BY:	GB	
SUBMITTED BY:	GB	
DATE:	JUNE 7, 2023	
PROJECT #:	1230236	

SHEET TITLE  
**INTERIOR FINISHES**

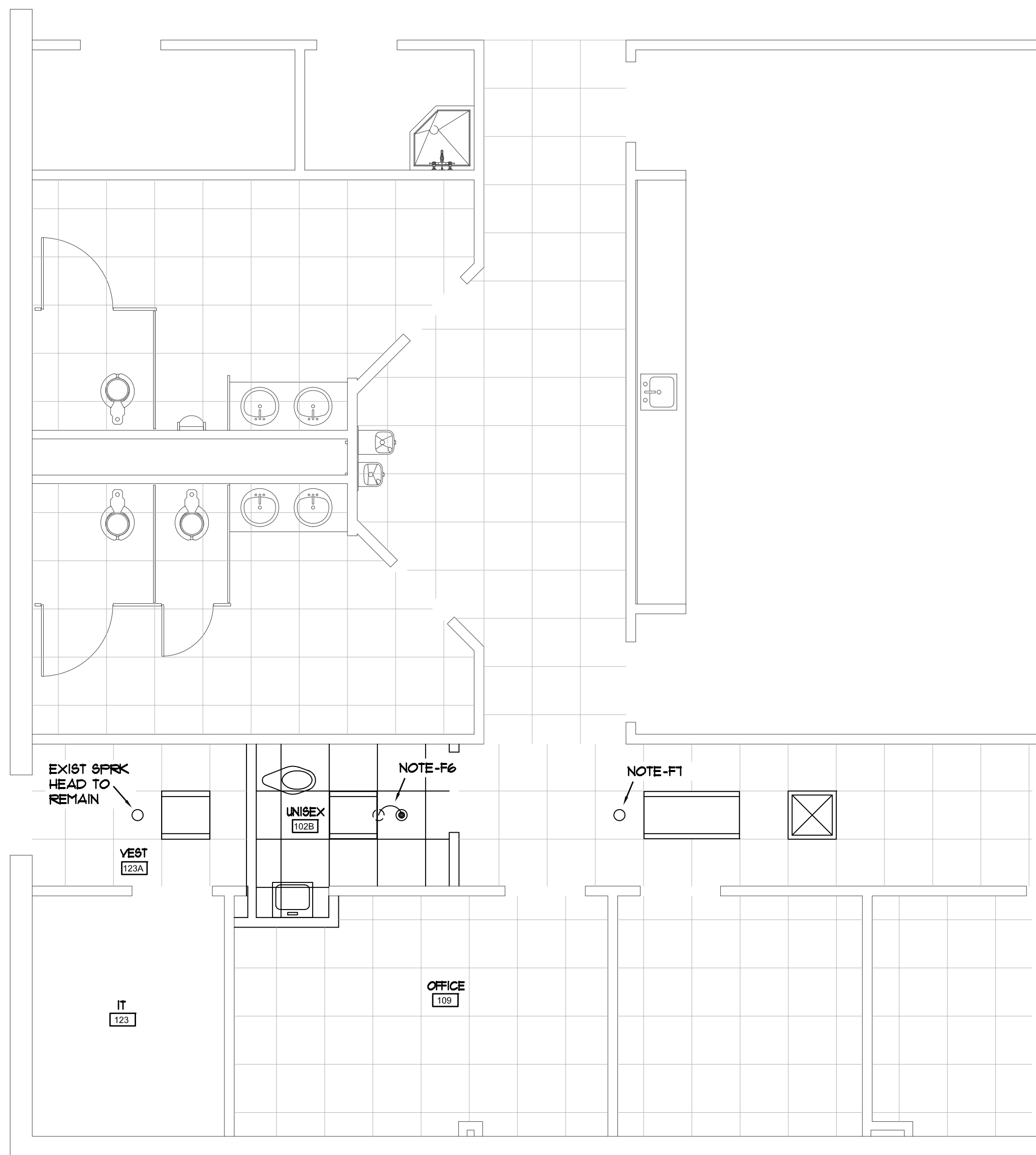
SHEET NUMBER  
**A-103**

ORIGINAL SHEET SIZE:  
22" X 34"

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**SPRINKLER FLOOR PLAN**

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

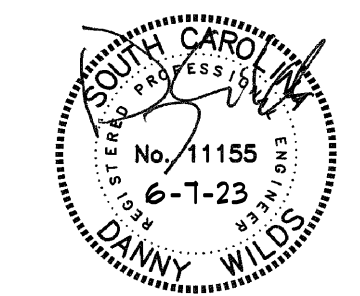
**WET PIPE SPRINKLER SYSTEM NOTES**

**GENERAL:** ALL WORK SHALL BE ACCOMPLISHED BY A CERTIFIED AND LICENSED FIRE PROTECTION CONTRACTOR REGULARLY ENGAGED IN THE DESIGN AND INSTALLATION OF FIRE PROTECTION SYSTEMS UNDER THE LAWS OF THE STATE OF SOUTH CAROLINA.

- F1. DO NOT SCALE DRAWINGS. ROUGH FROM EXISTING CONDITIONS, ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS. COORDINATE CEILING FINISHES AND HEIGHTS AS APPLICABLE.
- F2. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA-13, 2018 AND ALL APPLICABLE LOCAL CODES AND ORDINANCES
- F3. COORDINATE SPRINKLER SYSTEMS WITH ALL TRADES TO AVOID INTERFERENCE AND CONFLICTS PRIOR TO INSTALLATION OF PIPING, VALVES AND EQUIPMENT.
- F4. WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
- F5. LOCATE SPRINKLER HEADS IN CENTER OF CEILING TILES. COORD WITH LIGHTING AND MECHANICAL DIFFUSER LOCATIONS PRIOR TO INSTALLATION TO PREVENT CONFLICTS.
- F6. REPLACE EXISTING SPRINKLER HEAD. RELOCATE TO BE IN THE CENTER OF THE NEW CEILING TILE. SPRINKLER HEAD SHALL BE SEMI-RECESSED PENDENT TYPE TO MATCH EXISTING. PROVIDE 200°F TEMP RATING. COORDINATE WITH MECHANICAL DIFFUSER LOCATION PRIOR TO INSTALLATION TO PREVENT CONFLICTS.
- F7. VERIFY EXISTING SPRINKLER HEAD PROVIDES ADEQUATE COVERAGE TO NEW WALL AT TOILET. REPLACE WITH EXTENDED COVERAGE HEAD IF NEEDED.
- F8. PIPE MATERIALS SHALL MATCH EXISTING. REUSE EXISTING PIPE OUTLETS WHERE POSSIBLE.

**EXISTING SPRINKLER SYSTEM NOTES**

- A. EXISTING DRAWINGS FOR THIS PROJECT WERE NOT AVAILABLE AT TIME OF DESIGN.
- B. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF ALL EXISTING PIPING AND HEADS INCLUDING LINE SIZES, SPRK HEAD TYPES AND SEISMIC BRACING TO ESTABLISH EXISTING CONDITIONS PRIOR TO SUBMITTING A BID FOR THIS PROJECT.



CLIENT INFORMATION



PROJECT NAME

MTC -  
SPRINGDALE  
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AIRPORT  
CAMPUS  
H59-N241-CL

1260 LEXINGTON  
DRIVE,  
COLUMBIA, SC 29170

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: DLF  
DRAWN BY: DLF  
CHECKED BY: DLF  
SUBMITTED BY: DLF  
DATE: JUNE 7, 2023  
PROJECT #: 1230236

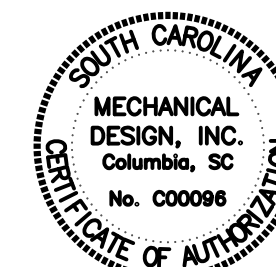
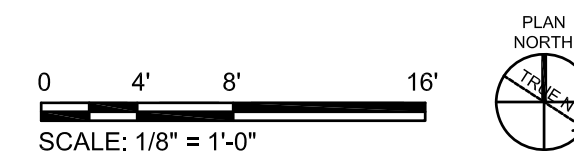
SHEET TITLE

SPRINKLER  
FLOOR PLAN

SHEET NUMBER

SP1

ORIGINAL SHEET SIZE:  
22" X 34"



**MECHANICAL DESIGN, INC.**  
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Columbia, S.C. 29210  
(803) 731-9834  
dana@mdi9834.com

CONTACT: D. FULMER      COMM. No. 233899

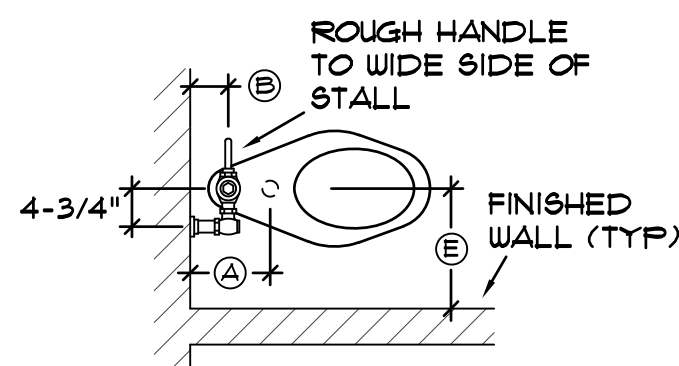


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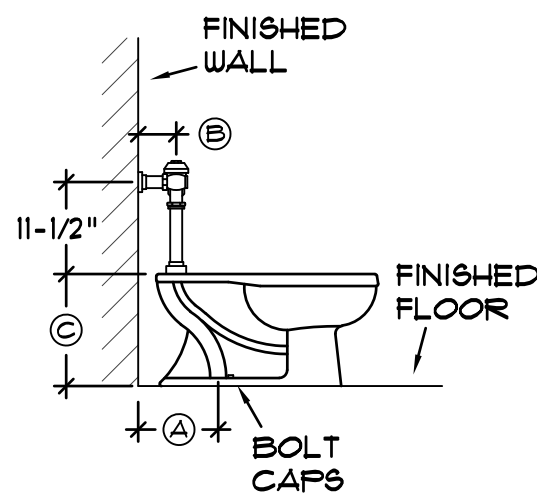
C

B

A



TOP VIEW



SIDE VIEW

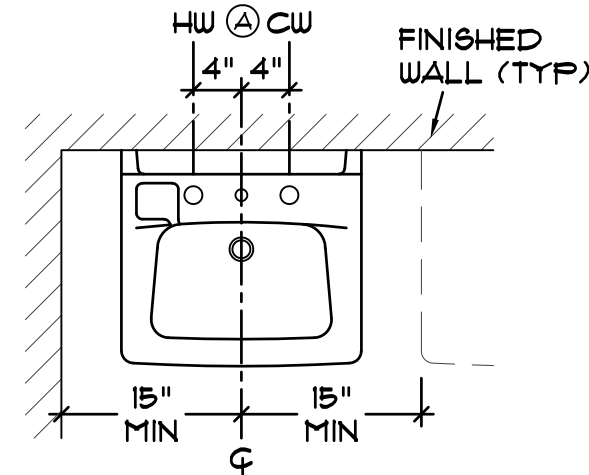
HANDICAPPED

TYPICAL FLOOR MOUNTED WATER CLOSET INSTALLATION

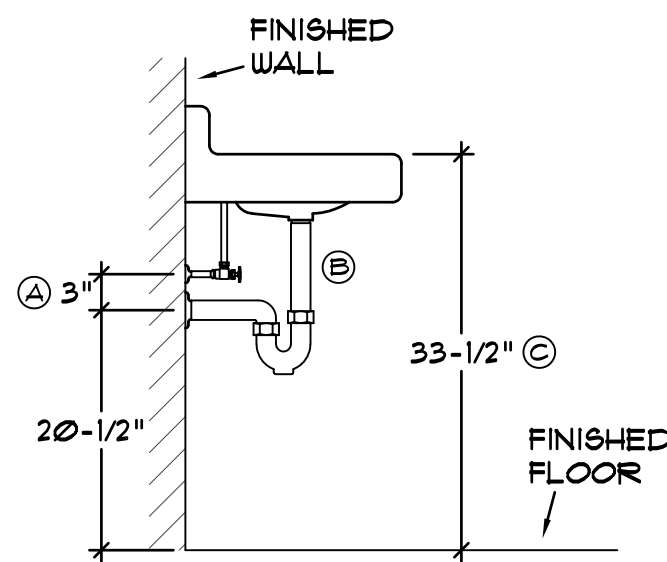
NO SCALE

KEY:

- Ⓐ 10" OR 12", ROUGH AS APPLICABLE.
- Ⓑ COORDINATE WITH FIXTURE MANUFACTURER.
- Ⓒ VERIFY WITH MANUFACTURER PROVIDED.
- Ⓓ REFERENCE ICC/ANSI A117.1, LATEST EDITION FOR MINIMUM CLEARANCE REQ'TS FOR INSTALLATION OF HDC'D WATER CLOSETS.
- Ⓔ LOCATE WATER CLOSET 16"-18" FROM GRAB BAR WALL. REFER TO ARCH DRG AS APPLICABLE.



TOP VIEW



SIDE VIEW

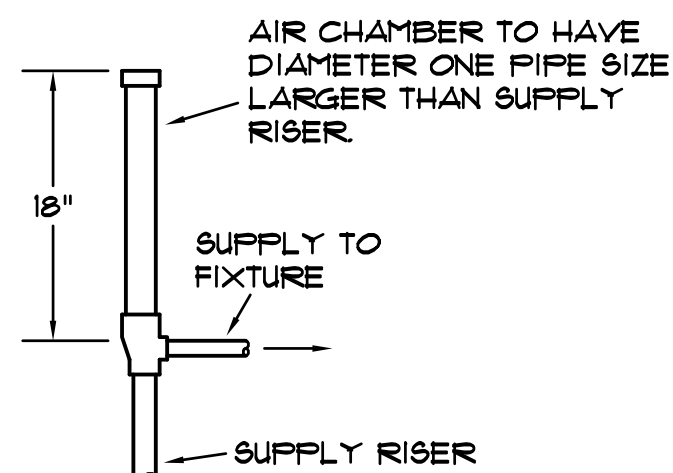
HANDICAPPED

LAVATORY INSTALLATION

NO SCALE

KEY:

- Ⓐ COORDINATE AND MAINTAIN ROUGH-IN DIMENSIONS FOR SUPPLIES AND WASTE OUTLET AS INDICATED. (SEE SPECIFICATIONS) SUPPLIES SHALL BE LOCATED 3" ABOVE WASTE OUTLET AS SHOWN.
- Ⓑ CONTRACTOR SHALL ORDER TAILPIECE LENGTH FOR FIXTURE AS REQUIRED.



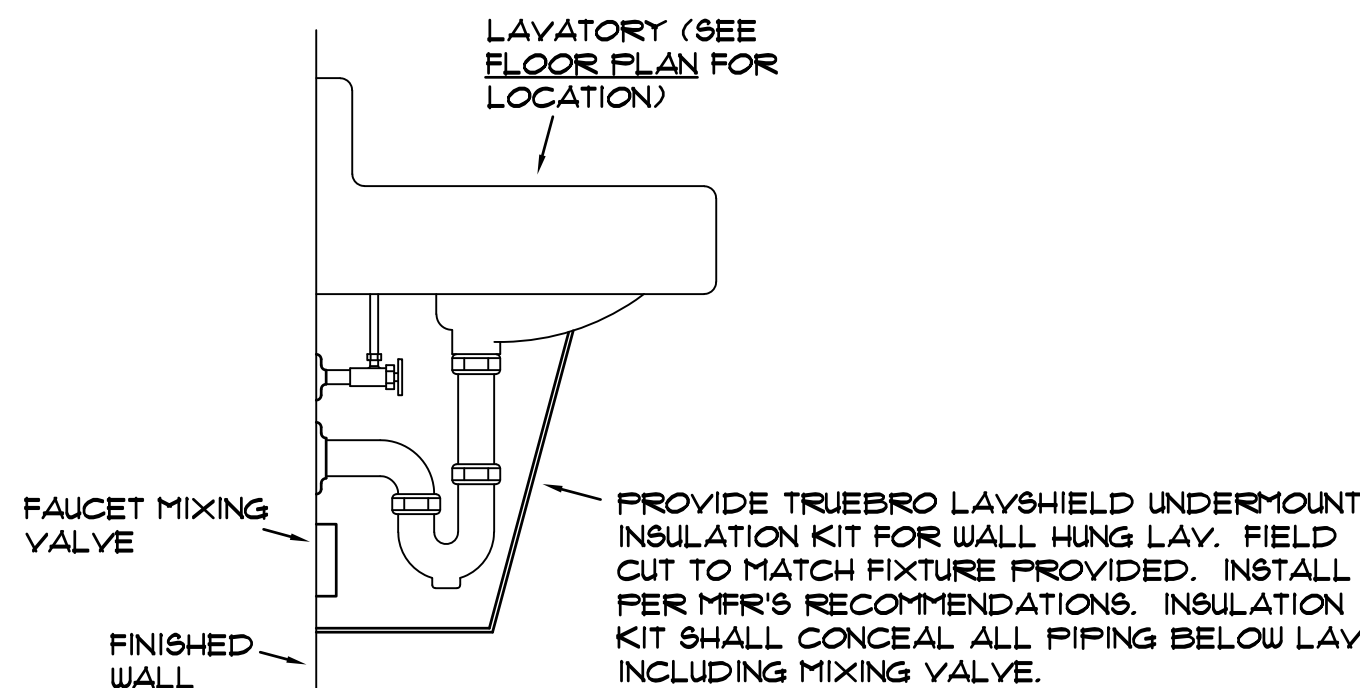
AC  
PI PI

AIR CHAMBER DETAIL

NO SCALE

SPECIAL NOTES:

- 1. (IPC) PLUMBING CODE PARAGRAPH 604.9 APPLIES TO QUICK-CLOSING VALVES ONLY.
- 2. THIS PROJECT DOES NOT CONTAIN QUICK-CLOSING VALVES.



LS  
PI PI

P-TRAP INSULATION DETAIL

NO SCALE

PLUMBING FIXTURE SCHEDULE

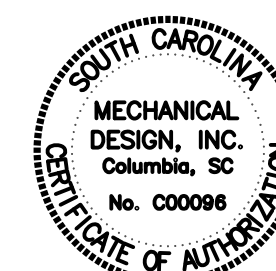
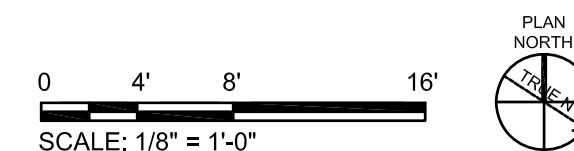
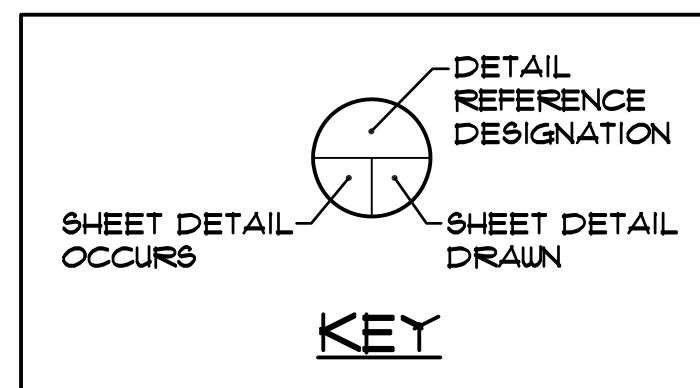
SYMBOL	DESCRIPTION	CW	HW	WASTE	VENT	MOUNTING HEIGHT
PIH	HDC'D WATER CLOSET	1"	---	2"	1-1/2"	16-5/8"
PIF	HDC'D WALL HUNG LAVATORY	1/2"	1/2"	2"	1-1/2"	33-1/2"

PLUMBING NOTES

- DO NOT SCALE DRAWINGS. ROUGH FROM EXISTING CONDITIONS, ARCHITECTURAL AND EQUIPMENT MANUFACTURER'S DRAWINGS.
- COORDINATE PLUMBING SYSTEMS WITH ALL TRADES TO AVOID INTERFERENCE AND CONFLICTS PRIOR TO INSTALLATION OF PIPING, FIXTURES, AND EQUIPMENT.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE (IBC) BUILDING AND (IPC) PLUMBING CODES, 2021 EDITIONS OF THE (ICC) INTERNATIONAL CODE COUNCIL AND ALL LOCAL CODES AND ORDINANCES.
- WHENEVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
- UNLESS OTHERWISE SHOWN OR NOTED, ALL PIPING SHALL BE RUN CONCEALED IN WALLS, CHASES AND/OR ABOVE CEILINGS.
- PROVIDE AIR CHAMBERS ON HOT AND COLD WATER SUPPLY TO EACH FIXTURE. SIZE ONE PIPE SIZE LARGER THAN SUPPLY. (SEE DETAIL)
- PROVIDE DEEP SEAL P-TRAP FOR FLOOR DRAIN TO PREVENT LOSS OF TRAP SEAL IN ACCORDANCE WITH 2021 (IPC) PLUMBING CODE 1002.4. PROVIDE PROSET TRAP GUARD "TRAP PRIMER ALTERNATIVE" AND INSTALL BELOW STRAINER AT ALL FLOOR DRAINS.
- INSTALLATION OF EQUIPMENT AND PIPING SHALL COMPLY WITH THE (IBC) BUILDING CODE 2021 EDITION FOR SEISMIC PROTECTION.

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
---	SANITARY WASTE PIPING
---	SANITARY VENT PIPING
---	COLD WATER PIPING
---	HOT WATER PIPING (120°F)
⊕	BALL VALVE
○ FCO	FLOOR CLEANOUT
⊙ FDI	3" FLOOR DRAIN
CW, HW	COLD WATER, HOT WATER
HDC'D	HANDICAPPED (ACCESSIBLE)



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 dana@mdi9834.com

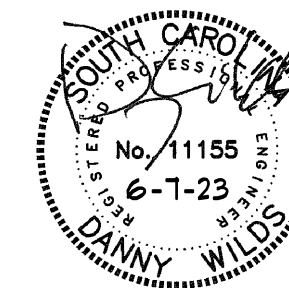
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 ENGINEERING: CO1806

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1260 LEXINGTON  
 DRIVE,  
 COLUMBIA, SC 29170

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: DLF  
 DRAWN BY: DLF  
 CHECKED BY: DLF  
 SUBMITTED BY: DLF  
 DATE: JUNE 7, 2023  
 PROJECT #: 1230236

SHEET TITLE

PLUMBING  
 DETAILS,  
 NOTES AND  
 SCHEDULES

SHEET NUMBER

P1

ORIGINAL SHEET SIZE:  
 22" X 34"



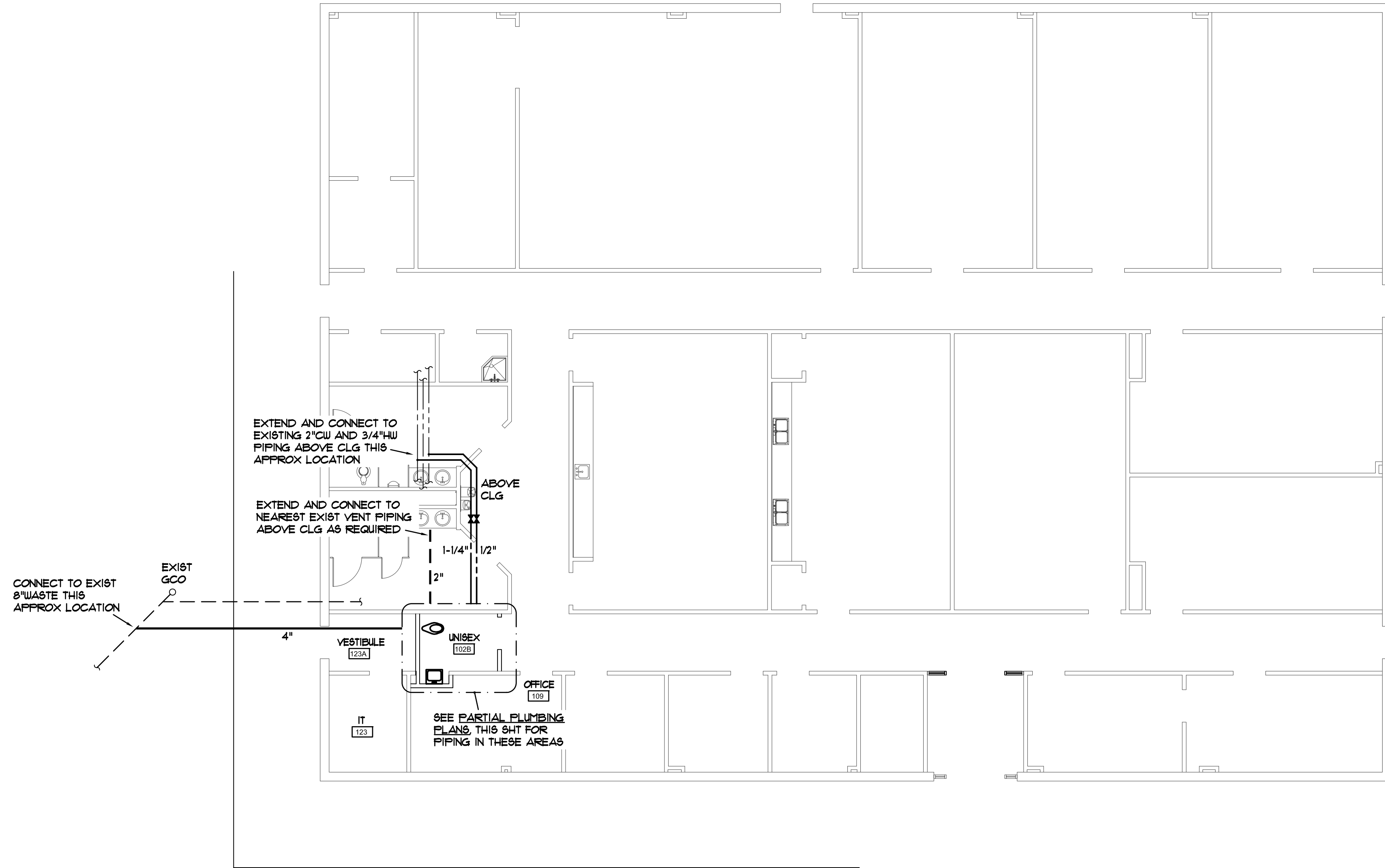
**GENERAL PLUMBING DEMOLITION NOTES**

REFER TO ARCHITECTURAL DEMOLITION PLANS FOR DEMOLITION REQ'T'S BEYOND THOSE INDICATED ON THESE PLANS AS APPLICABLE. COORD ALL DEMOLITION OF EXISTING MATERIALS, PIPING, ETC. WITH G.C. PRIOR TO START OF CONSTRUCTION TO PREVENT ISSUES.

- D1. CONTRACTOR SHALL FIELD COORDINATE AND VERIFY EXIST CONDITIONS PRIOR TO START OF DEMOLITION WORK. NOTIFY ENGINEER IMMEDIATELY IF QUESTIONS OR CONFLICTS ARE DISCOVERED AT START OF PROJECT.
- D2. PROVIDE SAWCUTTING, CUTTING, CORE DRILLING AND REMOVAL OF EXIST FLOOR SLABS AND/OR EXIST WALLS AS REQUIRED FOR THE DEMOLITION AND INSTALLATION OF EXIST PLUMBING SYSTEMS.
- D3. PATCHING OF EXIST FINISHES SHALL BE BY THE GENERAL CONTRACTOR.

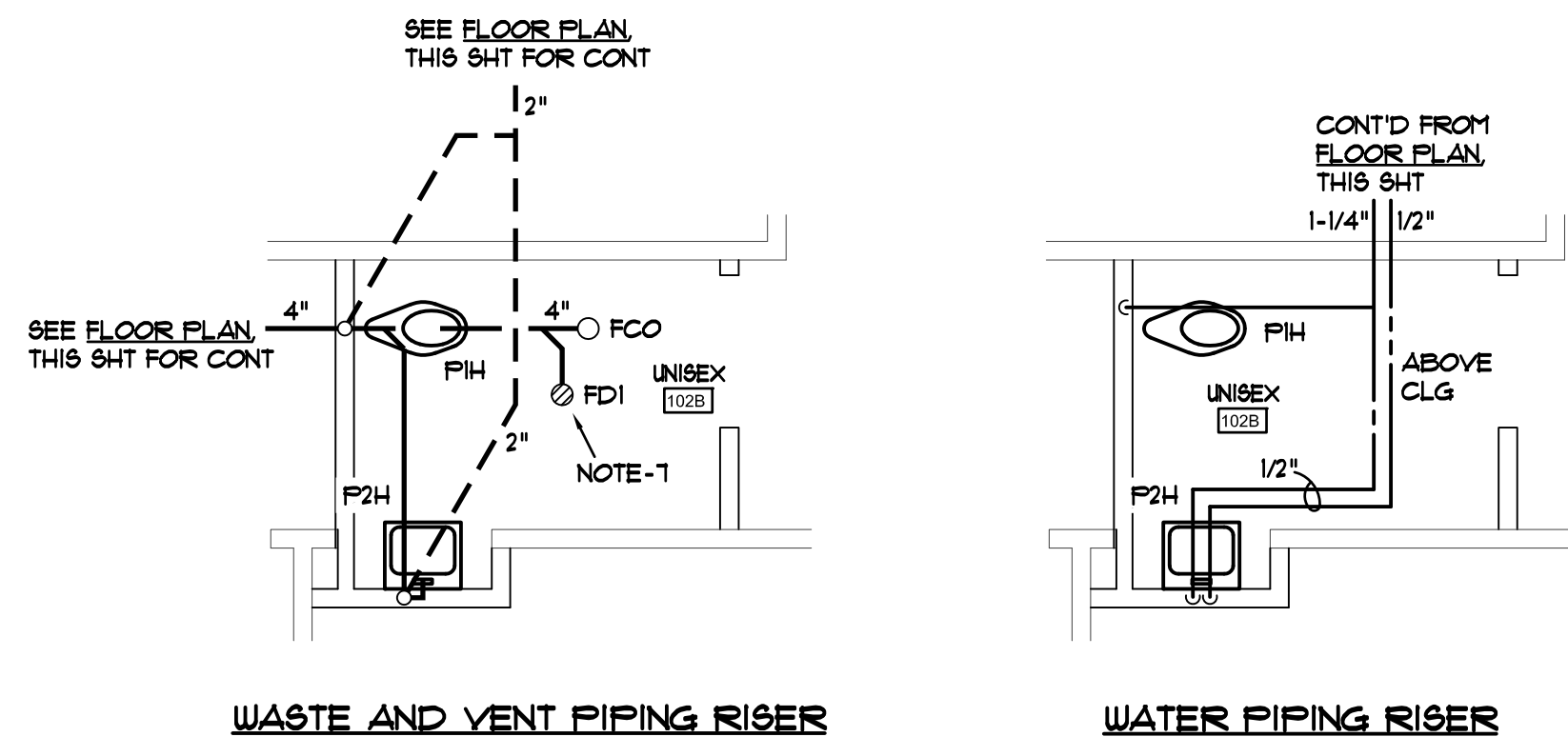
**EXISTING CEILING NOTE**

THE EXISTING SUSPENDED CEILING TILES ARE TO BE REMOVED, STORED AND REINSTALLED BY THE GENERAL CONTRACTOR AS REQUIRED FOR THE INSTALLATION OF PLUMBING SYSTEMS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO CEILING GRID IS DISTURBED DURING THE INSTALLATION OF ABOVE CEILING PIPING. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL RESULT IN REPLACEMENT OF THE DAMAGED CEILING GRID. ANY COSTS ASSOCIATED WITH A FAILURE TO COMPLY WITH THIS REQUIREMENT WHETHER INTENTIONAL OR ACCIDENTAL SHALL BE THE SOLE RESPONSIBILITY OF THE PLUMBING CONTRACTOR.



**PLUMBING FLOOR PLAN**

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

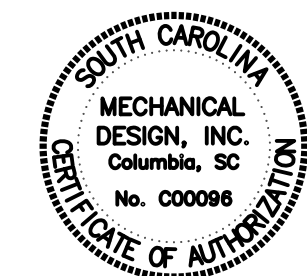
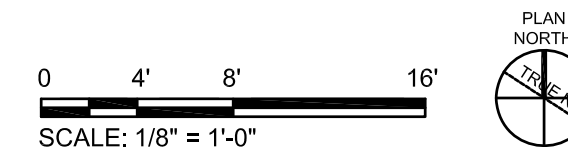


**PARTIAL PLUMBING PLANS**

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

**SPECIAL NOTES:**

- LOCATIONS OF EXIST UTILITIES AND PIPING ARE BASED ON EXIST DRAWINGS SEALED BY THE CLARK GROUP, INC. ARCHITECTS DATED JANUARY 28, 2003.
- CONTRACTOR IS REQUIRED TO VISIT PROJECT SITE PRIOR TO SUBMITTING BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXIST CONDITIONS RELATING TO THIS PROJECT. SUBMISSION OF A BID WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE OF WORK.



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CONTACT: D. FULMER      COMM. No. 233899

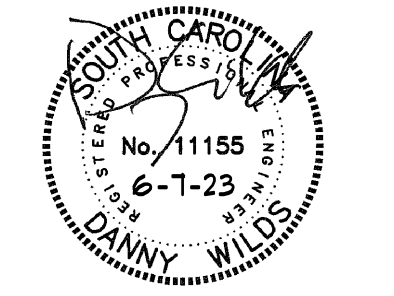


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SC. LICENSE NUMBERS:  
ARCHITECTURE: B-98107  
ENGINEERING: CO1806

EOR/AOR SEAL



CLIENT INFORMATION



PROJECT NAME

MTC -  
SPRINGDALE  
HALL  
RESTROOM -  
AIRPORT  
CAMPUS  
H59-N241-CL

1260 LEXINGTON  
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COLUMBIA, SC 29170

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PROJECT #: 1230236

SHEET TITLE

PLUMBING  
FLOOR PLANS

SHEET NUMBER

P2

ORIGINAL SHEET SIZE:  
22" X 34"



## PLUMBING SPECIFICATIONS

### 1.1 SCOPE:

- A. Provide all related equipment, labor, materials, excavation and backfill, operations and accessories required for the installation of complete and quietly operating plumbing systems, in accordance with the plans and specifications. This shall include the following:
1. Soil, Waste, Drain and Vent Piping
  2. Domestic Hot and Cold Water Piping
  3. Plumbing Fixtures and Trim
  4. Floor Drain
  5. Air Chambers
  6. Cleanouts
  7. Valves
  8. Pipe Hangers and Supports
  9. Pipe Insulation
  10. Sterilization of Domestic Water Piping and Certificates
  11. Tests
  12. Guarantees

### 1.2 EXCAVATION AND BACKFILLING:

- A. Provide all excavating and backfilling for work under this Division of the contract.
- B. Upon completion of tests and inspections, backfill with approved material, placed and tamped to prevent excessive settlement.

### 1.3 SOIL, WASTE, DRAIN, SEWER AND VENT PIPE:

- A. Soil, waste, drain and vent piping shall be sch 40 solid core PVC plastic pipe with solvent cement drainage pattern fittings.

### 1.4 HOT AND COLD WATER PIPING:

- A. Hot and cold water pipe to be hard drawn copper, Type L with soldered wrought copper fittings. Use lead-free hard solder (95-5) for all joints. Use soldering nipples or couplings between screwed and soldered pipe and fittings.

### 1.5 PIPE INSULATION:

- A. Hot and cold water piping shall be insulated with 1" thick one piece fiberglass insulation with embossed vapor barrier laminated jacket. Pipe fittings shall be insulated with same material and thickness as pipe. Install PVC jacket for all pipe insulation fittings. Insulation shall conform to HH-1-558B, Form D, Type III, Class 12; NFPA 90A and MIL-1-223.
- B. Piping located in interior walls or chases may be 1/2" thick in lieu of 1" thick noted above.

### 1.6 VALVES:

- A. Provide lead-free ball valves for hot and cold water piping where noted. Valves shall be sized according to line sizes shown.

- B. Ball valves shall be two piece, designed with minimum working pressure of 600 psi with full port, sweat type, chrome plated ball and blow-out proof stem. The manufacturer name and working pressure to be cast on valve body.
- C. Install valves with stems upright within 15 degrees of the vertical plane.
- D. Valve handles shall be malleable iron. Die-cast aluminum handwheels will not be accepted.
- E. Valves to be the product of one of the manufacturers and model numbers shown in the following table or accepted equal:

Ball Valves 2" and smaller (Bronze, Sweat)	Hammond	Apollo	Nibco
	UP8311A	70LF-200	S-585-80-LF

### 1.7 FLOOR DRAINS/CLEANOUTS:

- A. Provide cleanout plugs for all cleanouts. Floor drains and cleanouts shall be as manufactured by JR Smith or equal by Josam, Zurn or Wade will be accepted.

(FCO): ZN-1400-BP-NL, with round scoriated nickle-bronze adjustable floor cover and neoprene gasket seal connection. Install top of cover flush with finish floor.

(FD1): ZN-415-7I with 7" diameter extended lip nickle bronze strainer, 3" outlet. Install top of strainer flush with finished floor.

### 1.8 PIPE SUPPORTS:

- A. Perforated strap hangers, chain or wire will not be permitted on the job.
- B. Support horizontal piping above ground with hangers, threaded rods and turnbuckles as mfd. by Grinnell, Fee and Mason, PHD Hangers, or approved equal.
- C. Support copper pipe with copper or copper plated hangers, spaced not over 6 feet apart for 1/2" pipe and 8 feet apart for larger pipes.
- D. Provide seismic restraint products and systems for all overhead piping systems in accordance with local codes and ordinances. Seismic systems shall be as mfr'd by Amber-Booth, Mason Industries or accepted equal.

### 1.9 FIXTURES:

- A. Provide stop valves for all fixtures as follows:  
Lavatory (3/8"): McGuire 165 or Brasscraft R1912-A
- B. Provide 17 ga. C.P. p-trap for lavatories with cleanout as follows:  
McGuire 8902 1-1/4"x1-1/2"
- C. Fixtures shall be as mfr'd by Kohler or equal by American Standard or Zurn will be accepted.
- D. Toilet seats shall be as mfr'd by Beneke or equal by Bemis, Olsonite or Church will be accepted.
- E. Faucet shall be as manufactured by Sloan to match existing. or equal by Delta or Moen.

### F. Plumbing fixtures shall be as specified below:

P1H Hdc'd Water Closet; K-96057, 16-5/8" high elongated siphon jet floor mounted water closet, Sloan Regal 111-SFSM-1.6 battery powered infrared sensor activated flush valve with cast brass setscrew escutcheon, Bemis 1655SSCT white open front seat, less cover and bolt caps.

P2H Hdc'd Wall Hung Lavatory; Kohler K-2867-ZW-0, 20"x18" wall hung cast iron lavatory with wall lock-down lugs, 4" centers, Sloan SF-2350-BDM battery powered sensor faucet with below deck mechanical mixing valve, vandal proofing and McGuire 155A grid strainer.

### 1.10 STERILIZATION OF HOT AND COLD WATER SYSTEMS:

- A. Sterilize with a solution containing not less than (50) parts per million of available chlorine. Use sodium hypochlorite solution conforming to Federal Specifications OB-441-A, Grade D. Solution to remain in system for (24) hours, opening and closing all valves several times. After sterilization, flush with clean water until chlorine is not greater than 0.2 parts per million.
- B. Have samples collected from throughout the systems on (2) consecutive days tested by an approved independent testing laboratory and deliver certificates of approval to County Sanitarian, and Owner. All laboratory fees shall be included in the plumbing contract. Contractor shall be responsible for preventing use of water from systems for human consumption until tested and approved. Should any of the tests prove unfavorable, the entire disinfection and sampling process shall be repeated.

C. After the (24) hour retention period of the disinfection solution, the treated water should contain no less than 25 mg/l chlorine throughout the length of pipe.

D. Certificates indicating negative results of bacteriological tests shall be procured prior to building acceptance.

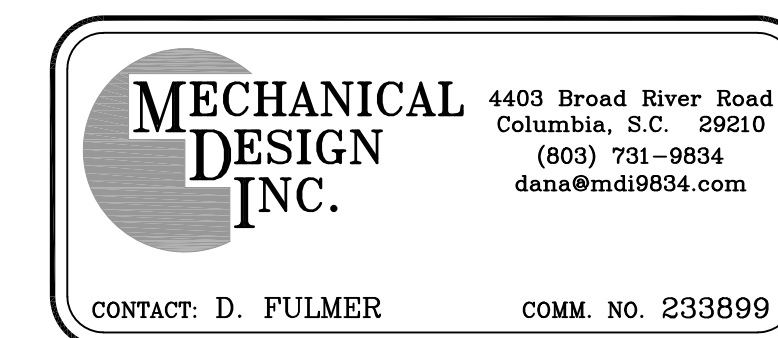
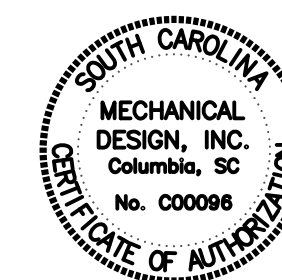
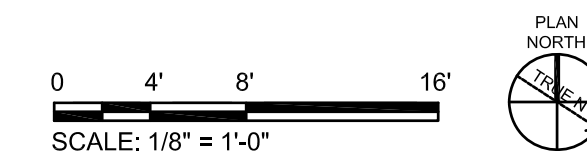
### 1.11 TESTS:

- A. Pressure and leak test all water piping at minimum 150 PSI for 4 hours and in accordance with local requirements.
- B. Test entire waste, and sanitary drainage and venting pipe systems by plugging all necessary openings and filling systems with minimum 10'-0" water column, or to the top of the highest vent stack.

### 1.12 GUARANTEE:

- A. Contractor shall guarantee all equipment, piping and any other materials specified under this Division of the contract for a period of one (1) year from the date of project acceptance unless otherwise indicated. Upon failure of any part(s) of the system during the guarantee period, the affected part(s) shall be repaired or replaced promptly by and at the expense of the Contractor.
- B. If any component fails during the regular one year period, then the replacement part(s) shall be given an additional one (1) year guarantee from the time of replacement. This shall continue until the items have given one (1) year satisfactory service.

END OF PLUMBING SPECIFICATIONS



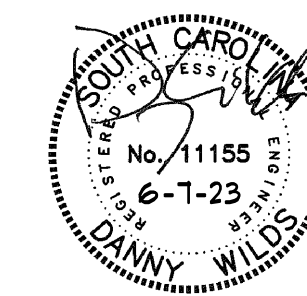
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SC LICENSE NUMBERS:  
ARCHITECTURE: B-98107  
ENGINEERING: CO1806

EORIAOR SEAL



CLIENT INFORMATION



PROJECT NAME

MTC -  
SPRINGDALE  
HALL  
RESTROOM -  
AIRPORT  
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H59-N241-CL

1260 LEXINGTON  
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SHEET TITLE

PLUMBING  
SPECIFICATIONS

SHEET NUMBER

P3

ORIGINAL SHEET SIZE:  
22" X 34"



VENTILATING FAN SCHEDULE ①						
MARK	GREENHECK MODEL ②	CFM	FAN S.P.	MOTOR SIZE ③	SONES	DRIVE CONTROLLED BY
CEF ④	9P-80-VG ①	75	1/4"	10 WATTS	10	DIRECT SEE ELECTRICAL

- ① FANS TO MATCH AVAILABLE ELECTRICAL SERVICE, SEE ELECTRICAL
- ② OR EQUAL BY COOK, BREIDERT, CARNES, TWIN CITY, PENN OR APPROVED EQUAL
- ③ PROVIDE EC MOTOR
- ④ PROVIDE WITH ALUMINUM EGG CRATE GRILLE, DISCONNECT, BACKDRAFT DAMPER, INSECT SCREEN, AND UL LOUVER

GRILLE AND DIFFUSER SCHEDULE					
MARK	SERVICE	NECK SIZE	MAX CFM	RUNOUT SIZE	REMARKS
①	SUPPLY	6"φ	110	6"φ	W/ BUTTERFLY DPR.

GRILLE/DIFFUSER	CEILING TYPE	TITUS * MODEL NO.	MATERIAL
8 SQUARE SUPPLY	LAY-IN	FA8-3 (PERFORATED, FLUSH FACE)	POWDER COATED STEEL
8 SQUARE SUPPLY	GYP. BD.	FA8-1 (PERFORATED)	POWDER COATED STEEL

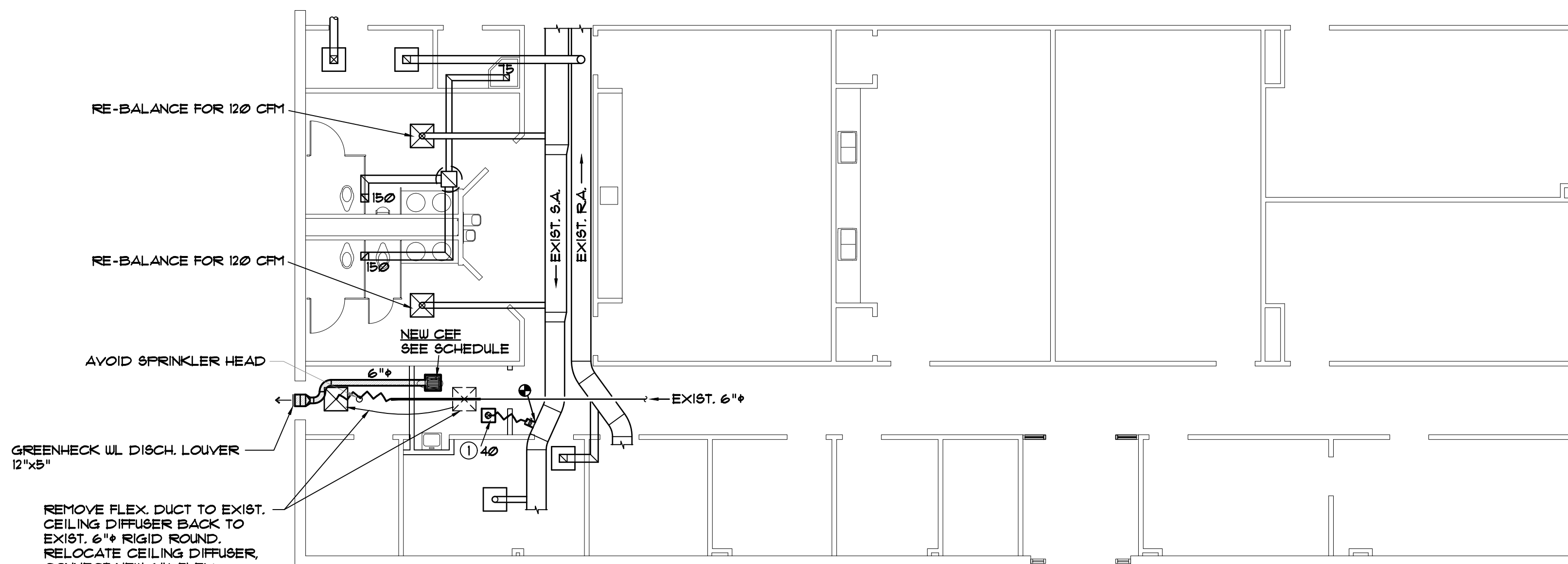
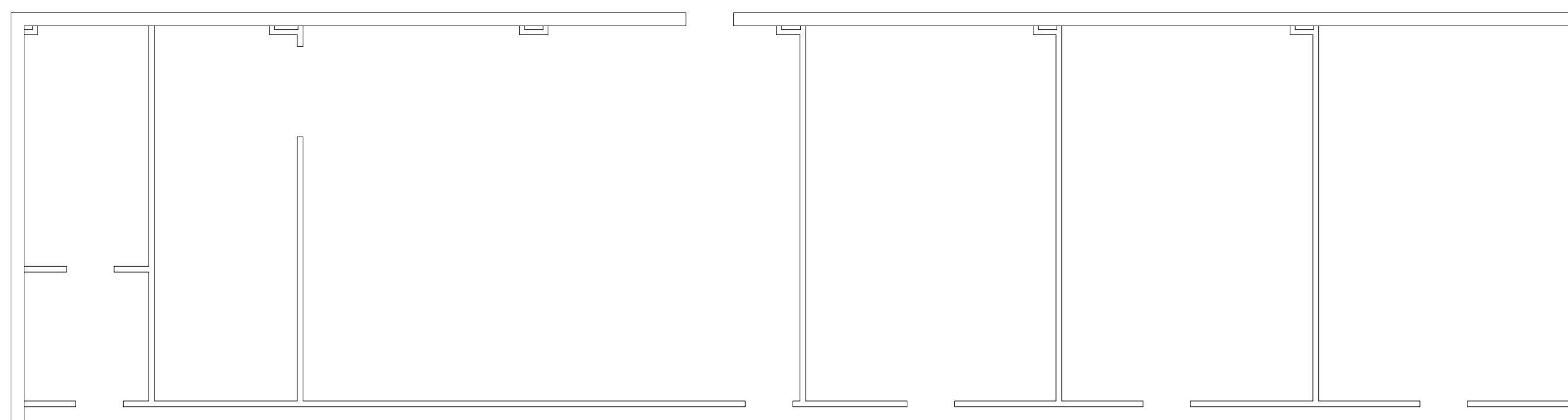
\* OR EQUAL BY PRICE, METALAIR, NAILOR, KREUGER, OR APPROVED EQUAL

- NOTES:
- GRILLE AND DIFFUSER LOCATIONS SHOWN ON FLOOR PLANS ARE APPROXIMATE. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION.
  - GRILLES AND DIFFUSERS SHALL MATCH CEILING TYPE, SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPE.
  - GRILLE AND DIFFUSER COLORS SHALL BE SELECTED BY ARCHITECT, SUBMIT COLOR SAMPLES TO ARCHITECT.

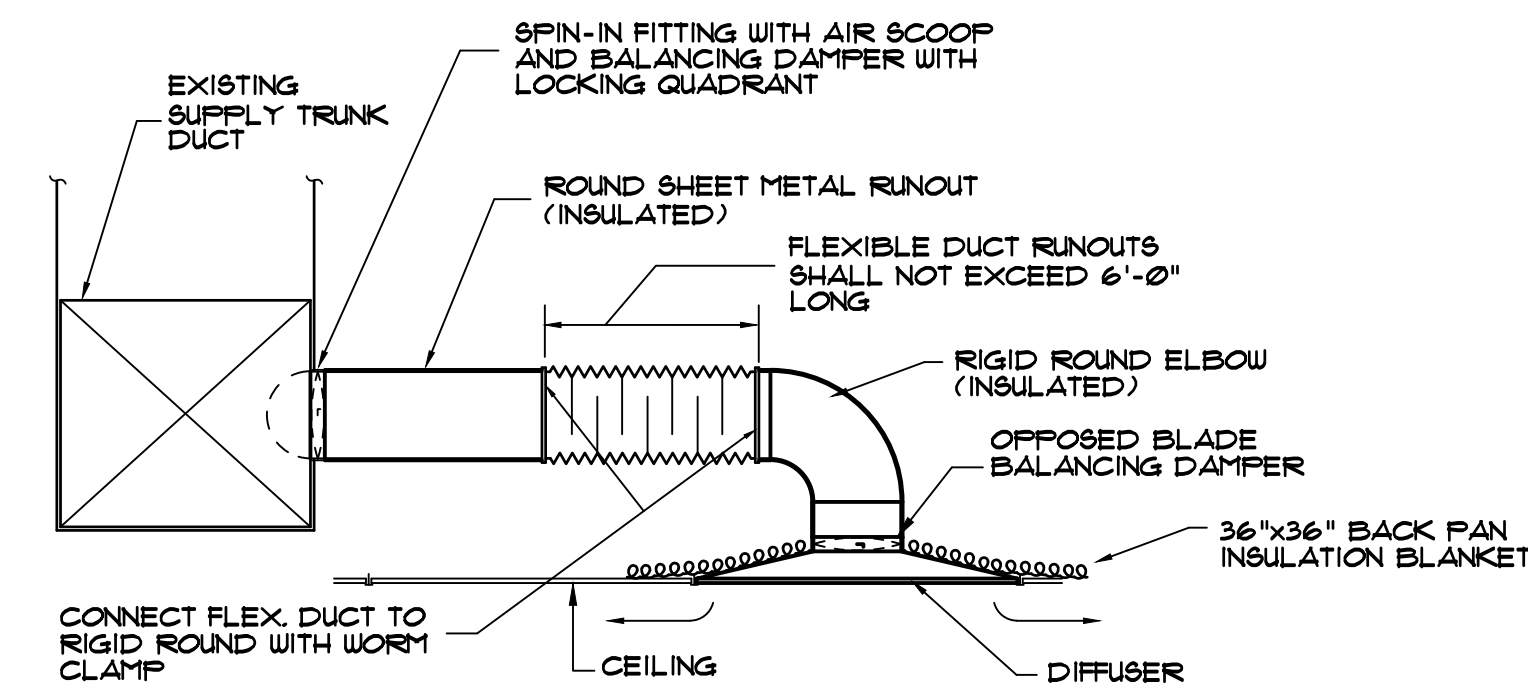
- ### NOTES
- DO NOT SCALE DRAWINGS. ROUGH FROM ARCHITECTURAL, EQUIPMENT MANUFACTURER'S DRAWINGS, AND EXISTING CONDITIONS.
  - DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. DUCT SIZES SHOWN ON DRAWINGS ARE INTERIOR DIMENSIONS.
  - WHENEVER THE WORD "PROVIDE" IS USED IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
  - PROVIDE GLASSFAB AND MASTIC ON ALL DUCT INSULATION, SEE SPECIFICATIONS. DUCT TAPE WILL NOT BE ACCEPTED.
  - CONSTRUCT DUCTWORK AS JOB PROGRESSES AND AFTER COORDINATING WITH ALL CONCERNED TRADES AND EXISTING CONDITIONS.
  - SEE SPECIFICATIONS FOR FLEXIBLE DUCT REQUIREMENTS.
  - INSTALLATION OF EQUIPMENT, DUCTWORK, AND PIPING, INCLUDING VIBRATION ISOLATION SHALL COMPLY WITH 2021 INTERNATIONAL BUILDING CODE FOR SEISMIC PROTECTION. SEE SPECIFICATIONS.
  - THE MINIMUM DISTANCE BETWEEN TAKEOFFS ON THE SAME SIDE OF THE DUCTS SHALL BE FOUR (4) TIMES THE DIAMETER OF THE FIRST TAKEOFF.

### SYMBOLS

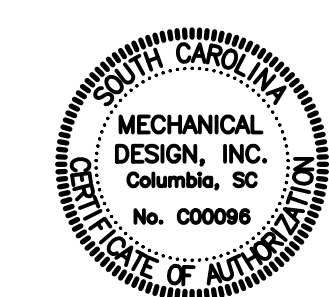
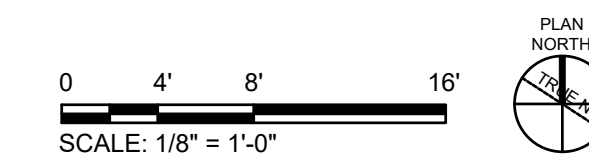
- FLEXIBLE DUCT (6 FT. MAX. LENGTH)
- RIGID ROUND RUNOUT DUCT
- NEW MATERIAL
- EXISTING MATERIALS
- CFM
- ① 100
- GRILLE OR DIFFUSER MARK, BALANCING CFM
- SPIN-IN TAKEOFF WITH SCOOP AND DAMPER



**HVAC FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



**CEILING DIFFUSER INSTALLATION**  
NOT TO SCALE

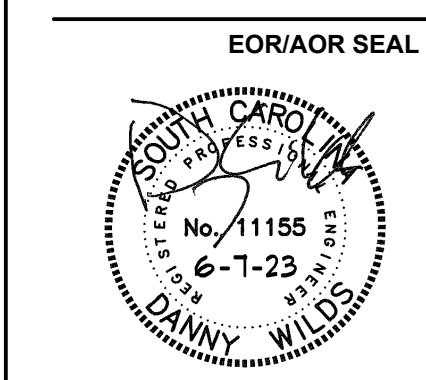


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ENGINEERING: C01806



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**MIDLANDS**  
TECHNICAL COLLEGE  
PROJECT NAME

MTC -  
SPRINGDALE  
HALL  
RESTROOM -  
AIRPORT  
CAMPUS  
H59-N241-CL

1260 LEXINGTON  
DRIVE,  
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SHEET TITLE

HVAC FLOOR PLAN,  
SCHEDULES AND  
DETAILS

SHEET NUMBER

**M101**

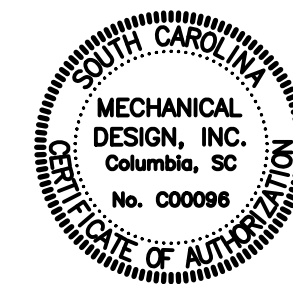
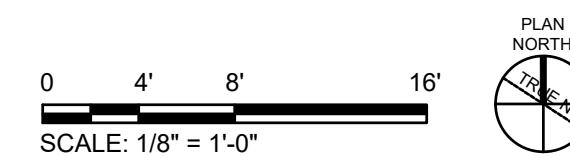
ORIGINAL SHEET SIZE:  
22" X 34"



### MECHANICAL SPECIFICATIONS

- 1.0 GENERAL
  - 1.1 All material and work shall comply with the National Fire Codes of the NFPA, National and local codes and the 2021 International Building Code, 2021 International Mechanical Code, 2021 International Plumbing Code, 2009 International Energy Conservation Code, ASHRAE Standard 90.1 – 2007 and 2020 National Electric Code.
  - 1.2 Drawings for work under Division 23 are diagrammatic and generally indicate reasonable arrangements. Work under Division 23 includes all work necessary to make HVAC systems complete and fully operational.
  - 1.3 MATERIAL AND EQUIPMENT SUBMITTALS: Submit for review detailed drawings of all equipment and all material listed in this section. All submittal data shall be bound in a hardback binder. Partial submittals will not be reviewed by the Engineer. Furnish six (6) copies of equipment submittals. Review rendered on equipment submittals shall not be considered as a guarantee of measurements of building conditions. WHERE DRAWINGS ARE REVIEWED, SAID REVIEW DOES NOT MEAN THAT DRAWINGS HAVE BEEN CHECKED IN DETAIL; SAID REVIEW DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY OR NECESSITY OF FURNISHING MATERIAL OR PERFORMING WORK AS REQUIRED BY THE CONTRACT DOCUMENTS. Partial submittals will not be reviewed by the Engineer. Submit for the following materials and equipment for review by the Engineer:
    - 1. Ceiling Exhaust Fan,
    - 2. Grilles and Diffusers,
  - 1.4 WORKMANSHIP: Work that is not of good quality will require removal and reinstallation.
  - 1.5 COORDINATION: No work shall be performed on this project before thoroughly coordinating all space requirements for pipes, control panels, and control components with all trades concerned and existing conditions. Temperature and equipment control wiring is included under Division 23.
  - 1.6 The responsibility for obtaining, cutting, and patching for work under Division 23 of the specifications is included Division 23.
  - 1.7 DAMAGES DURING CONSTRUCTION: Contractor shall be responsible for any costs of repairing any damages caused by this contractor, to the building, building contents, and site during construction and warranty period.
  - 1.8 WARRANTY: Warrant all control components, piping and any other materials specified under Division 23. Warrant all equipment, ductwork, piping and any other materials specified under Division 23 for a period of one (1) year from the date of project acceptance unless otherwise indicated. Upon failure of any part(s) of the system during the warranty period, the affected part(s) shall be repaired or replaced promptly by and at the expense of the Contractor.
  - 1.9 IDENTIFICATION: Identify each piece control component. Items shall be identified by name and numerical sequence. Nameplates shall be 1/16" thick plates with 1/2" high white letters on black background. Nameplates shall be attached securely with screws, not glued.
  - 1.10 RECORD DRAWINGS: Provide record drawings for all work included in Division 23. Maintain on the job site one complete set of drawings for this project. All changes authorized by the Engineer and/or Owner as to locations, sizes and routing of equipment, ductwork, piping and other material shall be indicated in red ink on the drawings as work progresses. Before Final Completion, Contractor shall obtain the latest set of AutoCad drawings from the Engineer which shall include the information outlined above. AutoCad drawings (including schedules, details, and sections) shall be corrected to depict all substituted materials and equipment.
  - 2.0 SEISMIC REQUIREMENTS: All materials shall comply with the 2021 International Building Code (IBC) for seismic requirements.
    - 2.1 Provide seismic submittals including calculations to determine restraint loads resulting from seismic forces presented in IBC. Seismic calculations shall be certified and stamped by a Structural Engineer in the employ of the seismic equipment manufacturer with a minimum of 5 years experience, and licensed in the project's jurisdiction.
    - 2.2 Provide seismic calculations and submittals for all new roof mounted equipment.
    - 2.3 Manufacturers of seismic restraints must be a member of the Vibration Isolation and Seismic Control Manufacturers Association (VISCMA).
    - 2.4 Provide letter of acceptance from the manufacturer's agent prior to project closeout indicating manufacturer review of installed seismic restraints for new equipment throughout project.
- 3.0 TESTING, ADJUSTING, AND BALANCING
  - 3.1 Work under this section includes the testing, adjusting and balancing of all new heating, ventilating and air conditioning systems. The results of all tests, adjustments and balancing shall be submitted to the Engineer for approval.
  - 3.2 Instruments used shall be of high quality and as recommended by AABC or NEBB for the application. Instruments shall be properly calibrated and certified within the last six months.
  - 3.3 The balancing firm shall warrant, solely that the system will be set to within 10% of the values as established by the drawings and specifications and also adjust to minimize drafts in all areas. The testing, balancing and adjusting shall be performed as many times as required to prove project requirements have been met. If requested by the Engineer, tests shall be performed in his presence.
  - 3.4 Any changes that are required for the final balancing results as determined by the balancing firm shall be provided under this section of the specifications. Such changes shall include, but not limited to, changing of pulleys, belts, dampers or adding dampers or access panels.
  - 3.5 Prior to acceptance of the systems by the Owner, submit to the Engineer for his review, a written testing, adjusting and balancing report, in triplicate, contained in a hard-backed three ring notebook. All reports, forms and data sheets shall generally be the standards of AABC or NEBB.
- 4.0 INSULATION
  - 4.1 New supply air ducts shall be insulated with 2" thick duct wrap equal to Mansville Microlite "Commercial Grade", 1 lb density, R-6.0 min. with FRK vapor barrier. Adhere to clean sheet metal ducts with bonding adhesive.
- 5.0 DUCTWORK
  - 5.1 Coordinate routing of new ducts with existing conditions and other trades in the field. Provide offsets and vary sizes as required to avoid existing structural and any other interferences. Do not construct any ducts until all space requirements have been thoroughly coordinated with all other trades and existing conditions.
  - 5.2 New supply, return, exhaust and outside air supply ducts shall be constructed in strict accordance with SMACNA Low Pressure Duct Standards. A copy of the SMACNA Low Pressure Duct Standards shall be kept on the job site. All new ducts shall be galvanized sheet metal, 26 gauge minimum.
  - 5.3 New flexible supply air ducts to ceiling diffusers shall be minimum 1" thick U.L.L. 181 Class 1 Air Duct. Each section shall have locking sheet metal end rings for connection to take-off fittings and ceiling diffusers. Maximum run of flexible ducts shall be six feet (6').
  - 5.4 Supply air duct take-offs from sheet metal trunks shall be a factory fabricated fitting with an adhesive backed collar and screw holes at each quadrant, air scoop, and balancing damper with locking mechanism. The fitting shall be secured to the trunk with sheet metal screws and coated with duct sealant.
  - 5.5 Support ducts from the building structure with 1" wide galvanized sheet metal hangers on eight foot (8') centers and at each change in direction. Flexible ducts shall be supported on three foot (3') centers. Crimping or sagging of flexible ducts will not be accepted.

END OF DIVISION 23 – HVAC

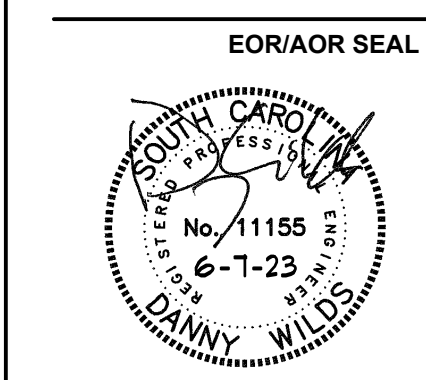


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SC. LICENSE NUMBERS:  
 ARCHITECTURE: B-98107  
 ENGINEERING: C01806



CLIENT INFORMATION  
  
**MIDLANDS**  
 TECHNICAL COLLEGE

PROJECT NAME  
**MTC -  
 SPRINGDALE  
 HALL  
 RESTROOM -  
 AIRPORT  
 CAMPUS  
 H59-N241-CL**

1260 LEXINGTON  
 DRIVE,  
 COLUMBIA, SC 29170

DRAWING ISSUE

DATE	DESCRIPTION	MARK

DESIGNED BY: DW  
 DRAWN BY: DW  
 CHECKED BY: DW  
 SUBMITTED BY: DW  
 DATE: JUNE 7, 2023  
 PROJECT #: 1230236

SHEET TITLE  
**HVAC  
 SPECIFICATIONS**

SHEET NUMBER  
**M201**

ORIGINAL SHEET SIZE:  
 22" X 34"



GENERAL "ELECTRICAL" NOTES

- BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG UNLESS NOTED OTHERWISE. WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES, IN OUTLET BOXES, IS NOT REQUIRED TO BE LARGER THAN NO. 12 AWG.
- 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE OR FIXTURE SHALL USE NO. 10 CONDUCTORS AND 3/4" C.
- PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS, MILLWORK SHOP DRAWINGS, AND EXISTING CONDITIONS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5"-0" IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE FLEXIBLE CONDUIT FOR ALL CONDUITS CROSSING EXPANSION JOINTS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF EXPANSION JOINTS.
- OUTLET BOXES FOR SWITCHES, RECEPTACLES, ETC MOUNTED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATE WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER IN THE WALL.
- RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION ABOVE CEILINGS, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE. WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
- BRANCH CIRCUIT ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS AND SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION.
- WHERE LIGHT SWITCH AND ABOVE COUNTER RECEPTACLES ARE INDICATED TO BE MOUNTED ADJACENT TO EACH OTHER, THE DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT UNDER A COMMON DEVICE PLATE.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING.
- THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:
  - A COMMON NEUTRAL SHALL NOT BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS UNLESS DIRECTION IS PROVIDED BY THE ENGINEER IN WRITING FOR A SPECIFIC APPLICATION.
  - MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS, 1 GROUND) RATED FOR 30-AMPS OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DERATING CONDUCTORS PER NEC ARTICLE 310.15.
  - BRANCH CIRCUIT, FEEDER & COMMUNICATION CIRCUITS SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
  - A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
- PROVIDE EXPANSION JOINT COUPLINGS ANYWHERE A CONDUIT PASSES THROUGH A BUILDING EXPANSION JOINT.
- THE USE OF MC CABLE IS NOT ALLOWED.
- SEAL ALL EXISTING AND NEW FIRE RATED WALL AND FLOOR PENETRATIONS IN THE CONSTRUCTION AREA
- SEE THE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF FIRE RATED WALLS.
- WHEREVER ON THE ELECTRICAL DRAWINGS THE WORD "PROVIDE" IS USED, IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL".
- WHERE CARD READERS AND / OR DOOR CONTACTS ARE SHOWN ON DRAWINGS, COORDINATE WITH ACCESS CONTROL AND DOOR HARDWARE SUPPLIER TO ENSURE THAT ALL RACEWAYS AND BOXES FOR POWER, SIGNALING, AND DATA ARE PROVIDED TO CARD READER LOCATIONS, DOOR FRAME, POWER SUPPLIES, AND CABLE-TRAY.
- ALL BRANCH CIRCUITS INDICATED ON THESE PLANS TO BE LARGER THAN NO. 12 AWG SHALL BE SIZED AS INDICATED FOR THE ENTIRE LENGTH OF THE CIRCUIT.

GROUNDING NOTES:

- NUMBERS IN BRACKETS REFER TO SPECIFIC SECTIONS OF THE NATIONAL ELECTRICAL CODE.
- ALL UNDERGROUND OR OTHERWISE INACCESSIBLE GROUND CONNECTIONS AND SPLICES SHALL BE EXOTHERMICALLY WELDED [250.68].
- PROVIDE A GROUND WIRE IN ALL CONDUITS.
- EARTH SHALL NOT BE USED AS THE SOLE GROUND RETURN PATH FOR ANY EQUIPMENT POWERED UNDER THIS PROJECT.
- NO ALUMINUM SHALL BE USED FOR GROUNDING WORK WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE ENGINEER. EXCEPTION: ALUMINUM BUILDING STRUCTURAL MATERIALS SHALL BE BONDED WITH LISTED ALUMINUM EQUIPMENT WITH ALUMINUM TO COPPER CONNECTORS FOR ROUTING COPPER EGC'S. ALL METAL ENCLOSURES AND RACEWAYS SHALL BE BONDED TO GROUND [250.86]. FOR CIRCUITS OVER 250V PROVIDE BOND PER [250.97], STANDARD LOCKNUTS ARE NOT ACCEPTABLE.
- PROVIDE EGC CONNECTED TO ANY JUNCTION BOX WHERE SPLICE IS MADE [250.148] OR WHERE A DEVICE IS INSTALLED.
- PROVIDE BOND TO EXPOSED METAL ON ALL MOTORS, PUMPS, AND LIGHTING FIXTURES PER [250.112].

GENERAL EXISTING CONDITION NOTES

- AREAS OF WORK EXIST FOR THIS PROJECT WHICH ARE NOT ACCESSIBLE OR HAVE LIMITED ACCESS DURING DESIGN. AS SUCH CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK BEFORE DEMOLITION OF ANY SERVICE. ANY ELECTRICAL COMPONENTS NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO ELECTRICAL REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER.
- IN AREAS WHERE THE EXISTING CEILINGS ARE NOT SLATED TO BE REMOVED, THE CONTRACTOR SHALL WORK THRU THE EXISTING CEILINGS (SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR AREA OF WORK). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY DAMAGED TILE OR GRID THAT IS A RESULT OF THEIR WORK.
- REFER TO ARCHITECTURAL PLANS FOR PHASING OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A FIRESTOP SYSTEM IN ALL PENETRATIONS OF FIRE-RATED WALLS CREATED BY THE REMOVAL OF EXISTING ELECTRICAL CONDUIT OR CABLES, AS WELL AS THOSE CREATED BY NEWLY INSTALLED CONDUITS AND SLEEVES.
- SUPPORT ALL EXISTING CONDUITS AND JUNCTION BOXES ABOVE THE CEILING PER NEC IN THE CONSTRUCTION AREA.
- REMOVE ALL ABANDONED CONDUIT, WIRE, AND COMMUNICATION CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA.
- PROVIDE JUNCTION BOX COVER PLATES ON ALL EXISTING JUNCTION BOXES ABOVE THE CEILING IN THE CONSTRUCTION AREA.
- SUPPORT ALL EXISTING COMMUNICATION CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA
- WHERE INFORMATION SHOWN ON THESE DRAWINGS CONFLICTS WITH VERIFIED FIELD CONDITIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER

GENERAL "DEMOLITION" NOTES

- ALL ELECTRICAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIALS UNTIL RELEASED BY OWNER'S PROJECT MANAGER. MATERIALS THAT OWNER'S PROJECT MANAGER CHOOSES TO RETAIN SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE PROJECT MANAGER. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
- REMOVE ALL EXPOSED ABANDONED COMMUNICATION CABLE FOUND DURING THE CONSTRUCTION PROCESS. SUPPORT ALL EXISTING REMAINING CABLE PER THE NEC.
- ELECTRICAL DEVICES NOT SHOWN ON WALLS TO BE DEMOLISHED SHALL BE DEMOLISHED AT NO ADDITIONAL COST TO OWNER.
- ELECTRICAL DEVICES NOT SHOWN ON CEILINGS OR WALLS TO REMAIN SHALL REMAIN IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION
- ELECTRICAL DEVICES NOT SHOWN ON CEILINGS TO BE REMOVED SHALL BE TEMPORARILY DISCONNECTED AND REMOVED DURING DEMOLITION AND RE-INSTALLED ON NEW CEILING IN SAME LOCATION.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE (WALL MOUNTED @ 18" AFF)		FIRE ALARM PULL STATION (WALL MOUNTED @ 48" AFF TOP OF BOX)
	DUPLEX RECEPTACLE (GFI TYPE @ 18" AFF)		FIRE ALARM AUDIBLE DEVICE (WALL MOUNTED @ 7'-6" AFF)
	DUPLEX RECEPTACLE (@ 6" ABOVE COUNTER)		FIRE ALARM VISUAL DEVICE (WALL MOUNTED @ 7'-6" AFF)
	DUPLEX RECEPTACLE (GFI TYPE @ 6" ABOVE COUNTER)		FIRE ALARM AUDIBLE/VISUAL DEVICE (WALL MOUNTED @ 7'-6" AFF)
	JUNCTION BOX (WALL MTD)		FIRE ALARM AUDIBLE DEVICE (CEILING MOUNTED)
	JUNCTION BOX (CEILING)		FIRE ALARM VISUAL DEVICE (CEILING MOUNTED)
	JUNCTION BOX (FLOOR MOUNTED)		FIRE ALARM AUDIBLE/VISUAL DEVICE (CEILING MOUNTED)
	PUSH BUTTON CONTROL		SMOKE DETECTOR (WALL MOUNTED)
	LIGHT SWITCH, SINGLE POLE		SMOKE DETECTOR (CEILING MOUNTED)
	LIGHT SWITCH, 3 WAY TYPE		SECURITY CARD READER SEE ACCESS CONTROL DETAILS FOR ADDITIONAL INFO
	LIGHT SWITCH, 4 WAY TYPE		CCTV CAMERA (WALL MOUNTED) SEE COMMUNICATIONS RISER FOR ADDITIONAL INFO
	OCCUPANCY SENSOR (CEILING MOUNTED)		CCTV CAMERA (CEILING MOUNTED) SEE COMMUNICATIONS RISER FOR ADDITIONAL INFO
	OCCUPANCY SENSOR (WALL MOUNTED)		CONTROL PANEL (SURFACE MOUNTED)
	PANELBOARD (SURFACE MOUNTED)		CONTROL PANEL (RECESS MOUNTED)
	PANELBOARD (RECESS MOUNTED)		LOWER CASE SUBSCRIPT INDICATES SWITCH-LEG
			KEY NOTE CALLOUT (REFER TO KEY NOTES ON SHEET)

ABBREVIATIONS

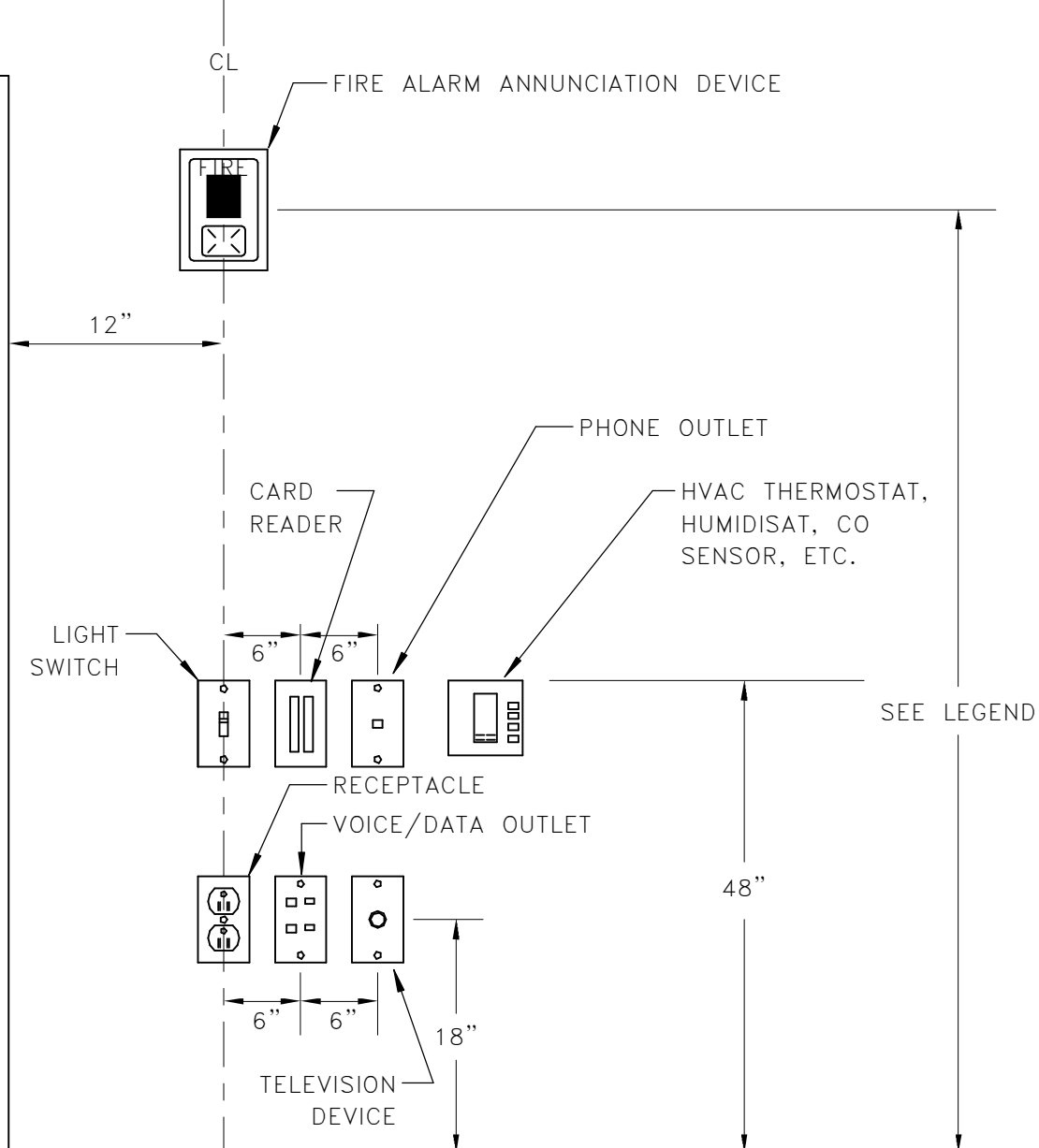
ABR	DESCRIPTION
(E)	EXISTING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BOD	BOTTOM OF DEVICE
CBB	COMMUNICATIONS BACK BOARD
cd	CANDELA
CLG	CEILING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FDS	FUSED DISCONNECT SWITCH
FSD	FIRE/SMOKE DAMPER
GBB	GROUND BUSS BAR
GFCI	GROUND-FAULT CIRCUIT-INTERRUPTING
GFI	GROUND-FAULT INTERRUPTING
GP	GENERAL PURPOSE
HP	HEAT PUMP
ICP	IRRIGATION CONTROL PANEL
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
LCS	LIGHTING CONTROL SYSTEM
NEC	NATIONAL ELECTRIC CODE
NFDS	NON-FUSED DISCONNECT SWITCH
OC	ON CENTER
RFAP	REMOTE FIRE ALARM ANNUNCIATOR PANEL
RTU	ROOF TOP UNIT
SD	SMOKE DETECTOR
SPD	SURGE PROTECTION DEVICE
TGB	TELEPHONE GROUNDING BUSS BAR
UNO	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

DEMOLITION/RENOVATION NOTATION

- \* IF NO ANNOTATION IS SHOWN ASSUME EXISTING TO REMAIN IN PLACE FOR SOLID LINES AND DEMOLISH FOR DASHED LINES.
- \* DEVICES AND EQUIPMENT NOT SHOWN SHALL BE ASSUMED TO BE EXISTING TO REMAIN IN PLACE.
- E EXISTING FIXTURE OR DEVICE TO REMAIN IN PLACE.
- R EXISTING FIXTURE OR DEVICE TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. MAINTAIN CONTINUITY OF REMAINING PORTIONS OF BRANCH CIRCUIT.
- RE EXISTING DEVICE TO BE REMOVED BY THE ELECTRICAL CONTRACTOR. EXISTING CIRCUIT SHALL BE RETAINED. PROVIDE NEW DEVICE AS SHOWN ON RENOVATION PLANS.
- RN RELOCATED FIXTURE (NEW LOCATION).
- RR EXISTING FIXTURE TO BE RELOCATED BY THE ELECTRICAL CONTRACTOR TO NEW LOCATION SHOWN ON RENOVATION PLAN.

ELECTRICAL DRAWING INDEX

#	SHEET NAME
E-001	ELECTRICAL NOTES & LEGENDS
E-101	ELECTRICAL PLANS



- NOTE:
- DEVICES SHOWN WITHIN 48" OF EACH OTHER ON ALL ELECTRICAL PLANS SHALL BE ALIGNED PER THIS DETAIL. IF DEVICES ARE SHOWN IN MIDDLE OF WALL, THEN CENTER DEVICES ON WALL.
  - DEVICES ABOVE COUNTER SHALL BE MAXIMUM OF 44" TO TOP OF DEVICE. SEE ELEVATIONS FOR ADDITIONAL INFORMATION.

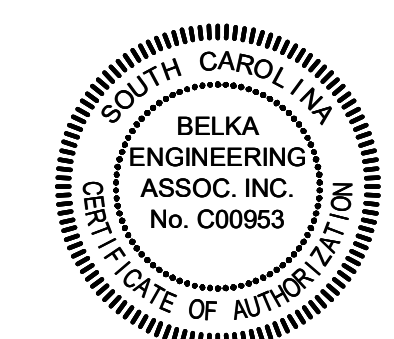
1 DEVICE ALIGNMENT DETAIL NOT TO SCALE

LIGHT FIXTURE SCHEDULE

SYMBOL	FIXTURE SPECIFICATIONS				LAMPING		ELECTRICAL		MOUNTING REMARKS
	TYPE	FIXTURE DESCRIPTION	MANUFACTURER	CAT. #	LUMENS	COLOR TEMP	FIXT. LOAD	VOLTS	
	AZE	2X2 LED SELECTABLE FLAT PANEL WITH BATTERY PACK	LITHONIA	CPX-2X2-AL07-SWW7-M4-ILBLP-CP10-HE-SD-A	4131	3500	38	277 V	RECESSED IN GRID

LIGHT FIXTURE SCHEDULE NOTES

- LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.
- LUMENS LISTED IN SCHEDULE REPRESENT DELIVERED LUMENS OF FIXTURES.
- SEE ARCHITECTURAL RCP AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS.
- CONFIRM QUANTITIES OF FIXTURES SHOWN IN RCP MATCH QUANTITIES SHOWN ON ELECTRICAL PLANS PRIOR TO BID. IF NO DISCREPANCIES ARE NOTED PRIOR TO BID THE HIGHEST QUANTITY OF EACH FIXTURE TYPE SHOWN SHALL BE PROVIDED.



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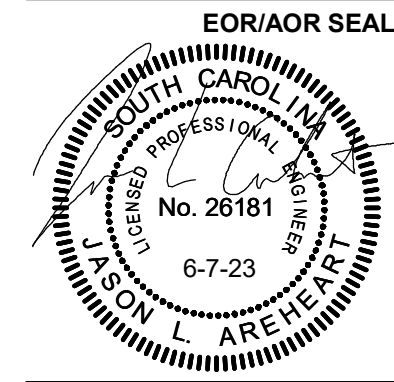
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SC. LICENSE NUMBERS:  
ARCHITECTURE: B-98107  
ENGINEERING: CO1806



CLIENT INFORMATION

**MIDLANDS**  
TECHNICAL COLLEGE

PROJECT NAME

MTC -  
SPRINDALE  
HALL  
RESTROOM -  
AIRPORT  
CAMPUS  
H59-N241-CL

1260 LEXINGTON  
DRIVE  
COLUMBIA, SC 29170

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: DMS  
DRAWN BY: DMS  
CHECKED BY: JLA  
SUBMITTED BY: JLA  
DATE: JUNE 7, 2023  
PROJECT #: 1230236

SHEET TITLE

ELECTRICAL NOTES & LEGENDS

SHEET NUMBER

E-001

ORIGINAL SHEET SIZE: 22" X 34"

1

2

3

4

5

GENERAL NOTES

- 1 EXTEND EXISTING CORRIDOR LIGHTING CIRCUIT IN PANEL 'HV1' TO LIGHT FIXTURES SHOWN ON THIS SHEET.
- 2 BRANCH CIRCUIT WIRING SHALL BE COPPER (THHN/THWN-2) NO. 12 AWG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
- 3 ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS AS SPECIFIED IN THE NEC UNLESS INDEPENDENTLY SUPPORTED. THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY TO SUPPORT 100% OF THE LIGHT FIXTURE WEIGHT ACTING IN ANY DIRECTION. A MINIMUM OF TWO ATTACHMENT DEVICES ARE REQUIRED FOR EACH FIXTURE. FIXTURES SHALL HAVE TWO (1) SLACK #12 GAUGE SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING (NOT DETACHABLE END PLATES) TO THE STRUCTURE ABOVE ON OPPOSITE CORNERS OF FIXTURES.

KEY NOTES

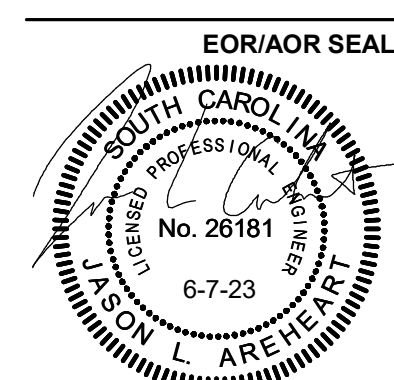
- 1 DISCONNECT SWITCHLEG FROM EXISTING FIXTURES AND RECONNECT TO NEW FIXTURE PROVIDED AS SHOWN.
- 2 PROVIDE WATTSTOPPER LMPC-100 SERIES SENSOR (OR EQUAL) FOR CONTROL OF CORRIDOR LIGHTING.
- 3 PROVIDE WATTSTOPPER LMPC-100 SERIES SENSOR (OR EQUAL) FOR CONTROL OF RESTROOM LIGHTING. EXHAUST FAN SHALL BE CONTROLLED SAME AS LIGHTING IN THIS SPACE. EXTEND CIRCUIT FOR EXISTING EXHAUST FAN IN PANEL 'LV1' WITH 2-#12, #12G IN 3/4" CONDUIT TO DISCONNECT (BY MECHANICAL) TO SUPPORT NEW EXHAUST FAN.
- 4 PROVIDE 1" CONDUIT FROM J-BOX ABOVE ACCESS CONTROL DOORS TO 1-GANG BOX FOR DOOR RELEASE BUTTON (BY OTHERS). COORDINATE EXACT LOCATION FOR DOOR RELEASE WITH OWNER PRIOR TO ROUGH-IN.
- 5 REPLACE EXISTING 1-POLE, 20A BREAKER IN PANEL 'LV1' LABELED AS "BROKEN" WITH NEW TO SUPPORT ACCESS CONTROL DOORS. PROVIDE 2-#12, #12G IN 3/4" CONDUIT TO ACCESS CONTROL DOOR POWER SUPPLY.



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SC. LICENSE NUMBERS: ARCHITECTURE: B-98107 ENGINEERING: CO1806



CLIENT INFORMATION



PROJECT NAME

MTC - SPRINDALE HALL RESTROOM - AIRPORT CAMPUS H59-N241-CL

1260 LEXINGTON DRIVE COLUMBIA, SC 29170

DRAWING ISSUE

E-101

DATE

DESCRIPTION

MARK

DESIGNED BY: DMS

DRAWN BY: DMS

CHECKED BY: JLA

SUBMITTED BY: JLA

DATE: JUNE 7, 2023

PROJECT #: 1230236

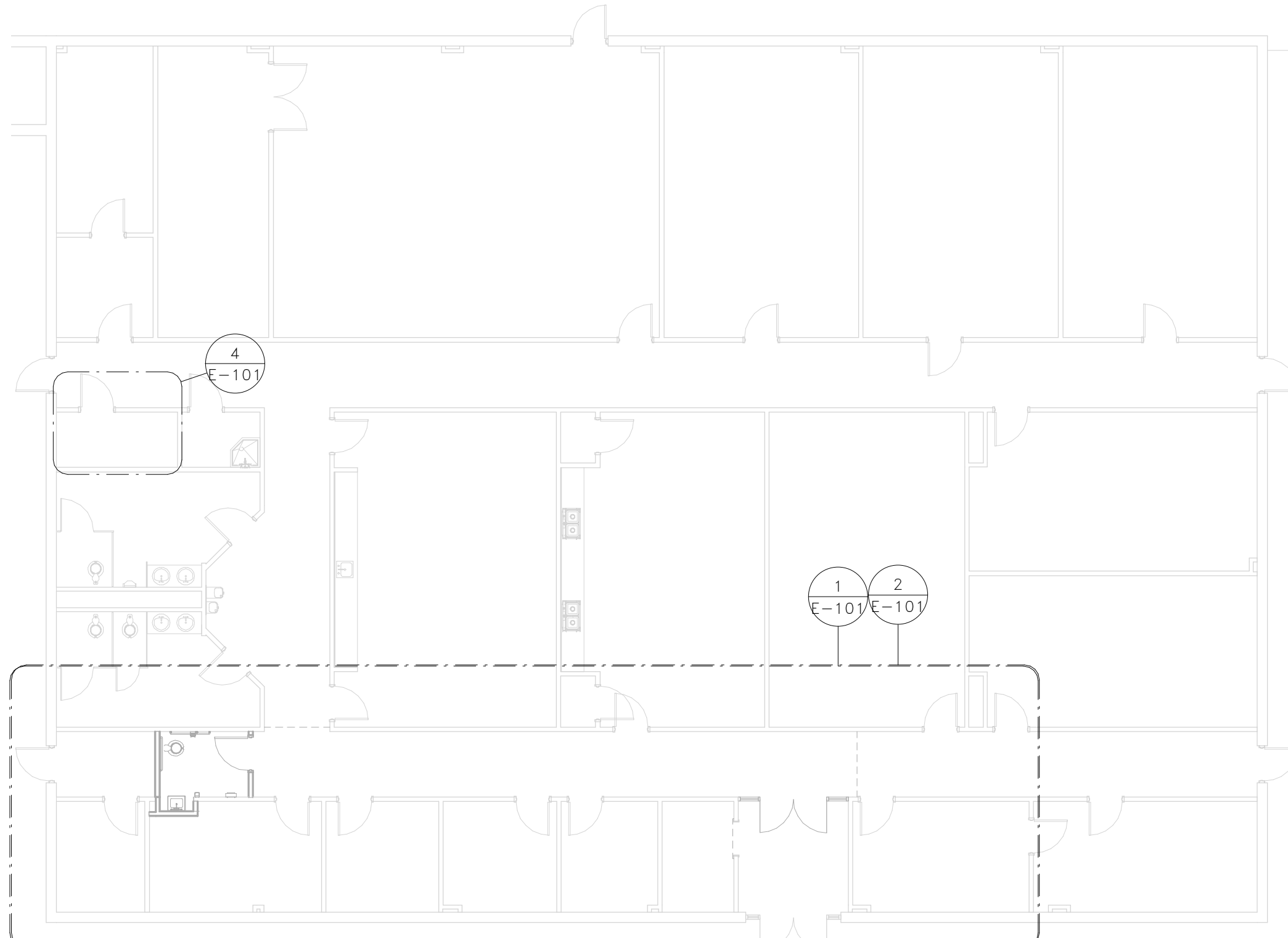
SHEET TITLE

ELECTRICAL PLANS

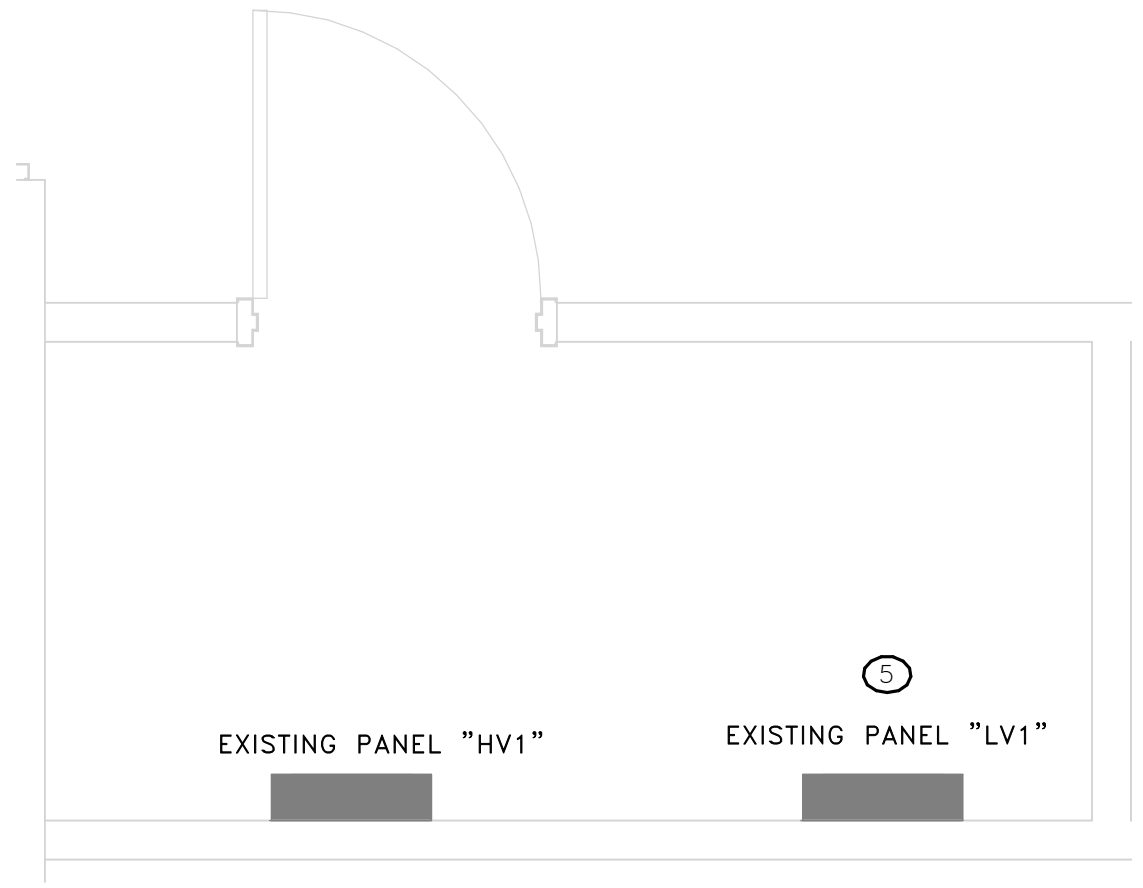
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E-101

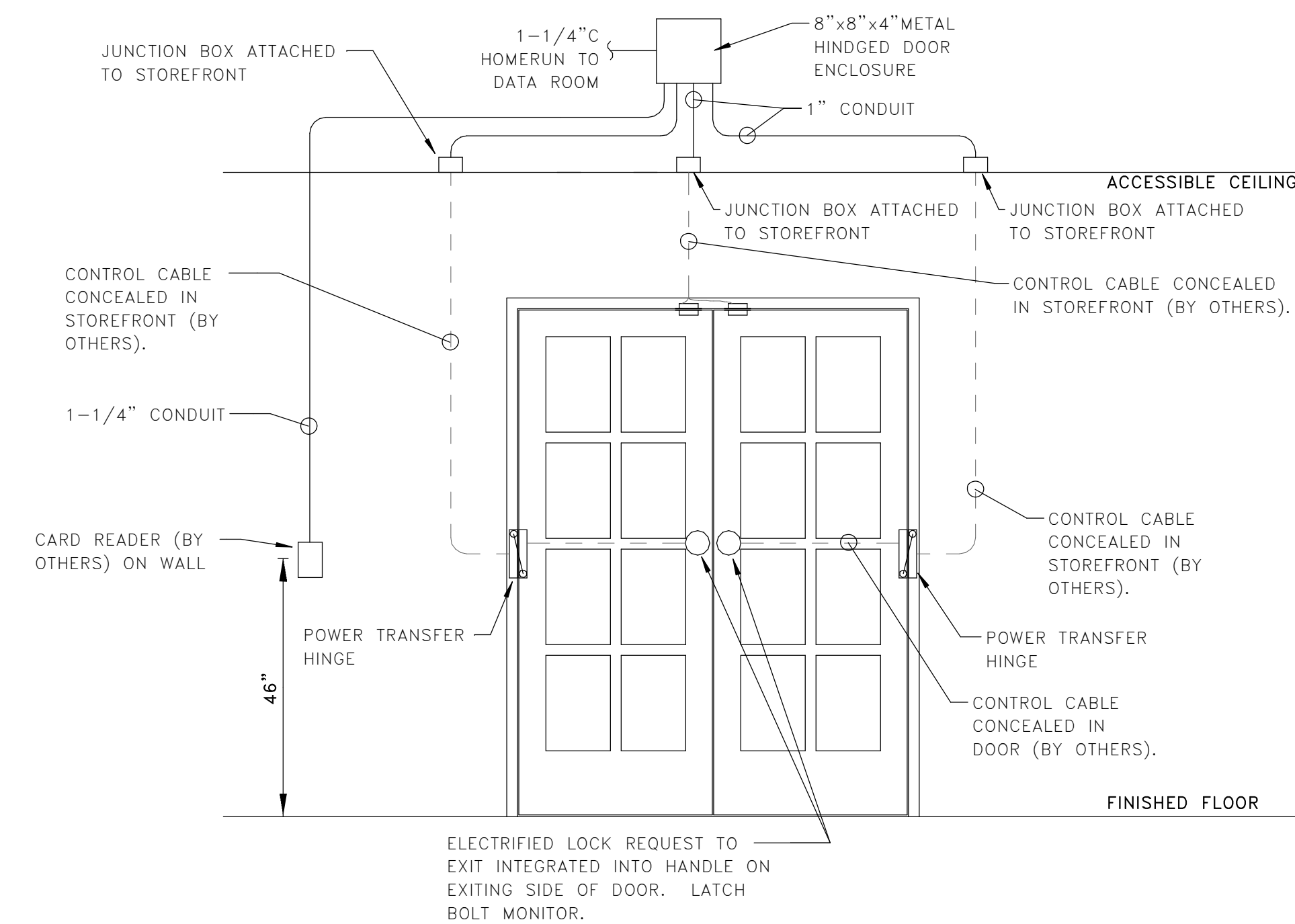
ORIGINAL SHEET SIZE: 22" X 34"



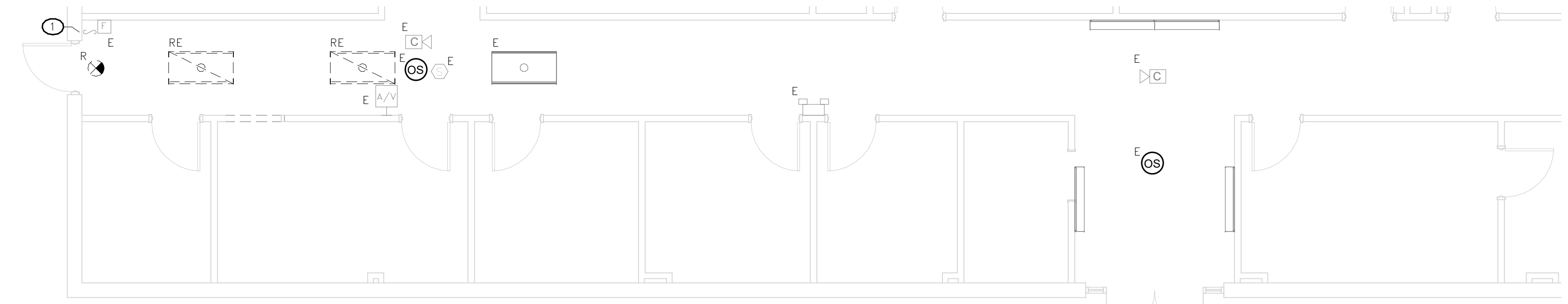
3 OVERALL PLAN E-101 SCALE: 3/32" = 1'-0"



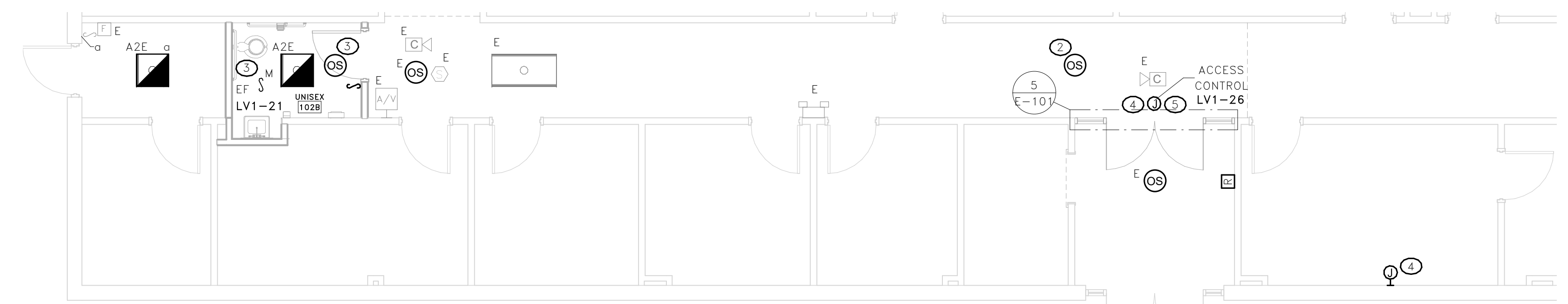
4 ELECTRICAL ROOM E-101 SCALE: 1/2" = 1'-0"



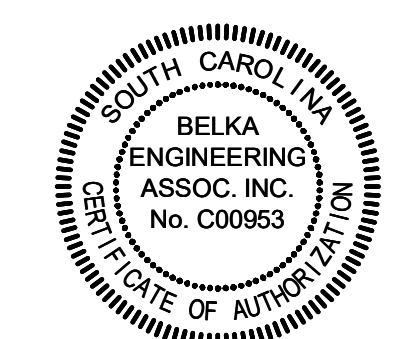
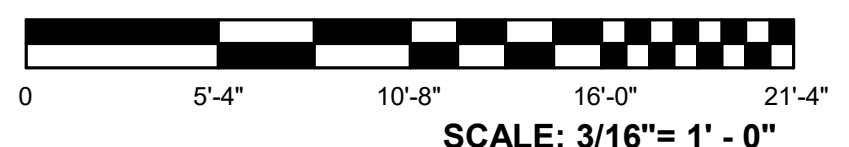
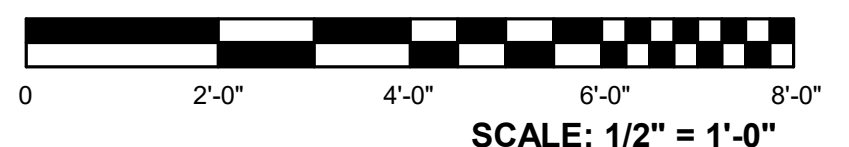
5 ACCESS CONTROL - DOUBLE DOOR DETAIL E-101 NOT TO SCALE



1 ELECTRICAL DEMOLITION PLAN E-101 SCALE: 3/16" = 1'-0"



2 ELECTRICAL RENOVATION PLAN E-101 SCALE: 3/16" = 1'-0"



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6/6/2023 11:31:57 AM BIM 360://1230236 MTC Springdale Building/PD22301\_MTC SPRINGDALE HALL RESTROOM\_ELEC\_21.rvt