

ARCHITECTURAL ABBREVIATIONS ACOUSTICAL TILE CEILING HEATING, VENTILATION, & AIR ADJ. ADJACENT CONDITIONING A.F.F. ABOVE FLOOR FINISH INSULATION AREA OF RESCUE ASSISTANCE A.R.A. LAVATORY BD. MECH. MECHANICAL CPT CARPET CLG. HT. CEILING HEIGHT NOT IN CONTRACT CENTERLINE NOT TO SCALE CONCRETE MASONRY UNIT CMU ON CENTER COL. COLUMN PAINTED GYPSUM BOARD CONC. CONCRETE RB RUBBER BASE CONT. CONTINUOUS REQUIRED DWG. R.O. DRAWING ROUGH OPENING ELECTRICAL CONTRACTOR S.F. SQUARE FEET ELEC. ELECTRICAL EQ. SPECIFICATIONS STAINLESS STEEL E.T.R. EXISTING TO REMAIN SS SWC SOLID WOOD CORE EWC ELECTRIC WATER COOLER THRESHOLD THRESH. EX. **EXISTING** T.S. TRANSITION STRIP EXIST. **EXISTING** TYP. FEC FIRE EXTINGUISHER CABINET UNLESS NOTED OTHERWISE U.N.O. F.F.E. FINISHED FLOOR ELEVATION VCT VINYL COMPOSITE TILE GC GENERAL CONTRACTOR WD WOOD HDW HARDWARE H.M. **HOLLOW METAL** HEIGHT

NC GLOBAL TRANSPARK TERMINAL DINIC PENIOWATIONS: PHASE 3 BUILDING RENOVATIONS: PHASE 3



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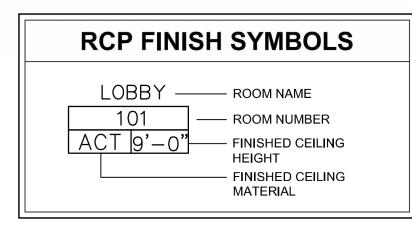
Engineering Source of NC, P.A. 102-A2 Regency Blvd. Greenville, North Carolina 27834 Phone: 252-439-0338 Contact: Wilson Pou, P.E. Email: wilson@engrsource.com

RPA Engineering

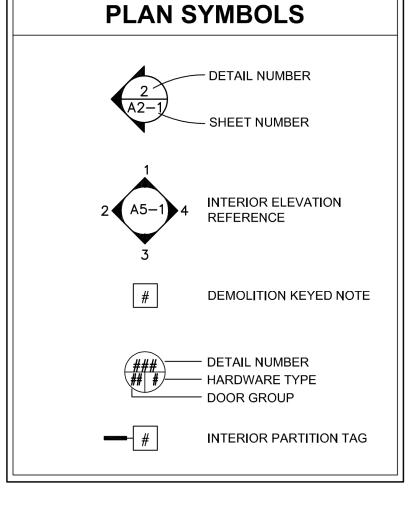
RPA Engineering, P.A. 1 Commerce Square Washington, North Carolina 27889 Phone: 252.917.4551 Contact: Mark Roy, P.E. Email: mark.roy@rpaengineering.com

STRUCTURAL:

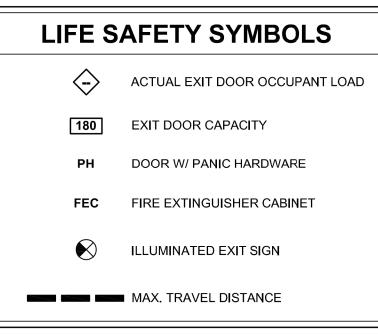
VICINITY MAP LOCATION MAP PROJECT LOCATION: 2860 Jetport Rd PROJECT LOCATION: 2860 Jetport RD Kinston, North Carolina Kinston, North Carolina

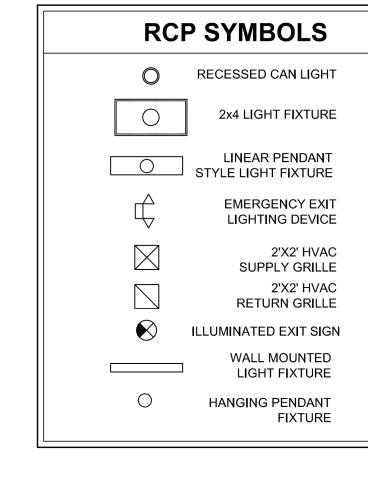


ROOM FINISH SYMBOLS					
	ROOM NAME				
101	ROOM NUMBER WALL FINISH TYPE				
PT	ACCENT FINISH MATERIAL				
BASE FINISH TYPE FLOOR FINISH TYPE					



UNLESS NOTED OTHERWISE, THESE ABBREVIATIONS AND SYMBOLS SHALL BE TYPICAL FOR THIS SET OF CONTRACT DOCUMENTS.





SHEET	SHEET NAME			
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T1 - 2	Appendix B Code Summary			
T1 - 3	Life Safety Plan			
T1-4	General ADA Information			
T1 - 5	General ADA Information			
ARCHITE	CTURAL			
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A0-1	Enlarged Demolition Floor Plan			
A0-2	Overall Demolition Reflected Ceiling Plan			
A0-3	Enlarged Demolition Reflected Ceiling Plan			
A0-4	Demolition Exterior Elevations			
A0-5	Demolition Exterior Elevation			
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A1-1	Enlarged Floor Plans			
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A2-1	Exterior Building Elevations			
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A2-3	Wall Sections & Details			
A4-1	Interior Elevations & Enlarged Restroom Plan			
A4-2	Interior Elevations & Casework Sections			
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A8-1	Door & Window Schedule, Frame Types, & Details			
A9-1	Finish Plan, Schedule, and Details			
Ctr at				
Structural	Partial Foundation Plan			
S1.1	Partial Foundation Plan Partial Mezzanine Framing Plan			
S1.2 S2.1	Partial Mezzanine Framing Plan and Notes			
	General Structural Notes and Schedules			
S3.1	General Structural Motes and Scriedules			
PLUMBIN	G			
P1.1	Sanitary Sewer Plan			
P1.2	Potable Water Plan			
MECHANICAL				

M0.1 Schedules & Details

M1.1 Mechanical Plan

E0.1 Riser Plan

E1.1 Power Plan

E1.2 Lighting Plan

E1.3 Power Plan

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ELECTRICAL

FIRE ALARM

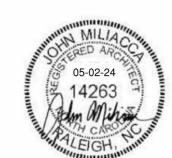
INDEX OF DRAWINGS



Together, we create.

THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN THE PROPERTY OF THE ARCHITEC THEY HAVE BEEN PREPARED FOR A SPECIFIC PROJECT AND SHALL NOT BE USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT. ©-MHAworks 2024





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REVISIONS: # DESCRIPTION: DATE

SHEET NAME: Title Sheet, Maps, Abbreviations, Index of Drawings, and **Specifications** PHASE:

Construction Documents

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **AMI/JMS/TN**

2018 APPENDIX B **BUILDING CODE SUMMARY** FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2 - FAMILY DWELLINGS AND TOWNHOUSES) NAME OF PROJECT: NC Global Trans Park Terminal Building - Renovation ADDRESS: 2780 Jetport Rd. Kinston, NC Z**I**P CODE: **_28504** OWNER OR AUTHORIZED AGENT: Rick Barkes OWNED BY: STATE: North Carolina CODE ENFORCEMENT JURISDICTION: CONTACT: DESIGNER TELEPHONE 252.329.0119 ARCHITECTURAL: 14263 Engineering Source of NC, P.A. 252.439.0338 ELECTRICAL: wilson@engrsource.com FIRE ALARM: Engineering Source of NC, P.A. 252.439.0338 wllson@engrsource.com PLUMBING: Engineering Source of NC, P.A. wllson@engrsource.com MECHANICAL: SPRINKLER/STANDPIPE: STRUCTURAL: RETAINING WALLS >5' HIGH: 2018 NC BUILDING CODE: NEW CONSTRUCTION SHELL/CORE 1ST TIME INTERIOR COMPLETIONS ADDITION PHASED CONSTRUCTION - SHELL CORE 2018 NC EXISTING BUILDING CODE: PRESCRIPTIVE ALTERATION LEVEL I HISTORIC PROPERTY REPAIR X ALTERATION LEVEL II CHANGE OF USE CHAPTER 14 ALTERATION LEVEL III CURRENT OCCUPANCY(S) (Ch. 3) Assembly (A) - Terminal Building CONSTRUCTED (date) 1976 RENOVATED (date) 2019 PROPOSED OCCUPANCY(S) (Ch. 3) Business (B) RISK CATEGORY (Table 1604.5): CURRENT: | | | | | | | | | | | | | | | | | PROPOSED: I X II III II IV BASIC BUILDING DATA: CONSTRUCTION TYPE: (Check all that apply) CLASS: | I STANDPIPES: FIRE DISTRICT: FLOOD HAZARD AREA: 🗶 NO SPECIAL INSPECTIONS REQUIRED: X NO **GROSS BUILDING AREA:** FLOOR WORK AREA (SQ. FT.) SUB TOTAL EXISTING (SQ. FT.) +/- 24,300 sq. ft. +/- 8,820 sq. ft. 1ST FLOOR: +/- 24,300 sq. ft. +/- 8,820 sq. ft. *THIS WORK IS ANOTHER PHASE OF THE OVERALL BUILDING RENOVATION. BOTH A ROOF RENOVATION AND AN INTERIOR OFFICE RENOVATION LOCATED ON THE WEST SIDE OF THE BUILDING WERE COMPLETED IN 2019. ALLOWABLE AREA A-1 A-2 A-3 A-4 A-5 ASSEMBLY BUSINESS EDUCATIONAL FACTORY F-1 Moderate F-2 Low H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM HAZARDOUS Institutional I-1 USE CONDITION I-2 USE CONDITION 2 3 4 5 I-3 USE CONDITION MERCANTILE R-1 R-2 R-3 R-4 RESIDENTIAL S-1 Moderate S-2 Low Enclosed Repair Garage Parking Garage Open UTILITY & MISC. Accessory Occupancy Classification(s): N/A Incidental Uses: (Table 509): N/A This separation is not exempt as a Non-Separated Use (see exceptions). Special Uses (Chapter 4 - List Code Sections): N/A Special Provisions (Chapter 5 - List Code Section) : N/A NON-SEPARATED USE (508.3) THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING. SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1. STORY NUMBER (B) TABLE 506.2⁴ (C) AREA FOR FRONTAGE INCREASE 1.6 AREA PER STORY OR Business - Offices 24,300 23,000 17,250 40,250 ¹ FRONTAGE AREA INCREAS FROM SECTION 506.2 ARE COMPUTED THUS: a. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = 1062 (F) b. TOTAL BUILDING PERIMETER = 1062 (P) c. RATIO (F/P)= 1 (F/P) d. W= MINIMUM WIDTH OF PUBLIC WAY = >30 (W) UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507. INLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 307. MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING X D (MAXIMUM 3 STORIES) (506.2). THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.4. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1 FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2.

SHOWN ON PLANS

37'-5"

ALLOWABLE

55'

CODE REFERENCE

Table 504.3

Table 504.4

ALLOWABLE

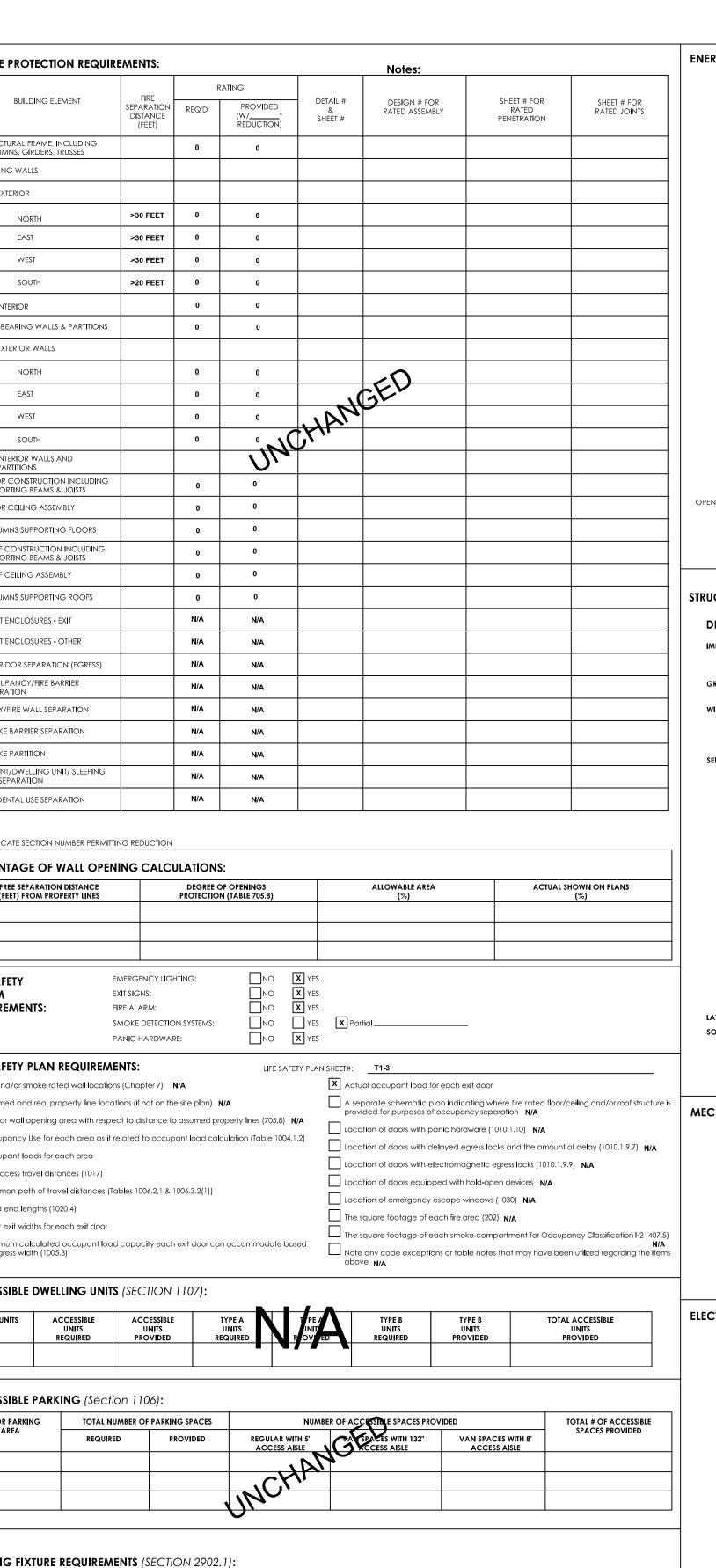
BUILDING HEIGHT IN FEET (Table 504.3)

BUILDING HEIGHT IN STORIES (Table 504.4)

Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

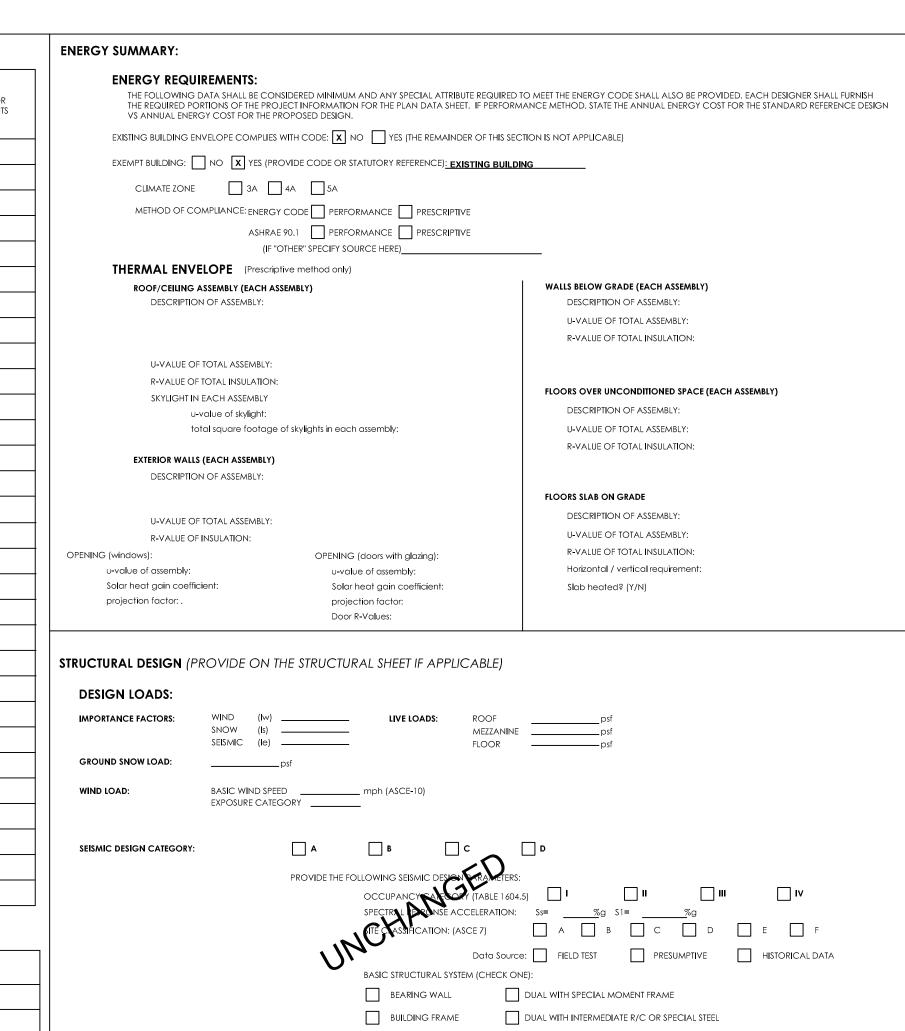
HEIGHT:

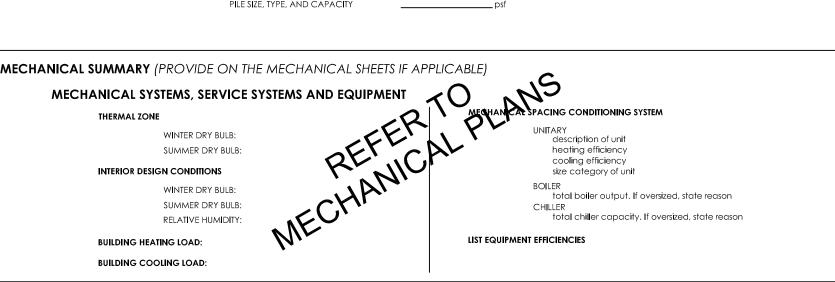
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	SOUTH		>20 FI	EET	0	0						
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		RATION (EGRESS)			N/A	N/A N/A						
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		SEPARATION			N/A	N/A						
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		SEPARATION			N/A	N/A						
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LATERAL DESIGN CONTROL: SOIL BEARING CAPACITIES:

REGULAR ACCESSIBLE





INVERTED PENDULUM

ANALYSIS PROCEDURE: SIMPLIFIED EQUIVALENT LATERAL FORCE DYNAMIC

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? YES NO

MOMENT FRAME

FIELD TEST (PROVIDE COPY OF TEST REPORT) ______psf

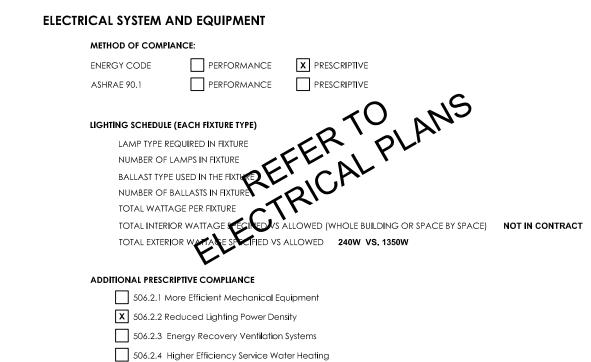
EARTHQUAKE WIND

PRESUMPTIVE BEARING CAPACITY

ELECTRICAL SUMMARY (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

506.2.5 On-Site Supply Renewable Energy

506.2.6 Automatic Daylighting Control Systems





Together, we create.

THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN THE PROPERTY OF THE ARCHITEC THEY HAVE BEEN PREPARED FOR A SPECIFIC PROJECT AND SHALL NOT BE USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT. ©-MHAworks 2024





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REVISIONS: # DESCRIPTION: DATE

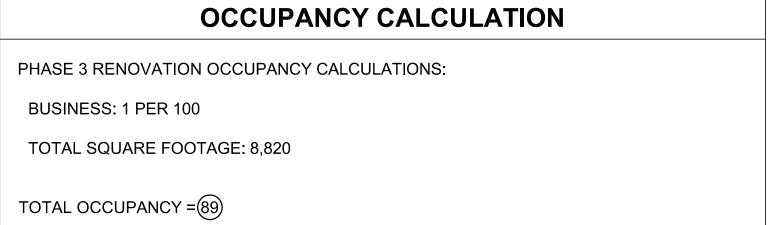
SHEET NAME: Appendix B Code Summary

PHASE: **Construction Documents**

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **AMI/JMS/TN**

OCCUPANCY CALCULATION BUSINESS: 1 PER 100 TOTAL SQUARE FOOTAGE: 8,820

*G.C. TO INSTALL FIRE EXTINGUISHERS IN LOCATIONS AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.





ACTUAL EXIT DOOR OCCUPANT LOAD

EXIT DOOR CAPACITY

DOOR W/ PANIC HARDWARE

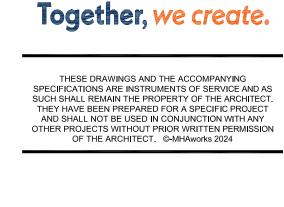
FIRE EXTINGUISHER CABINET

ILLUMINATED EXIT SIGN

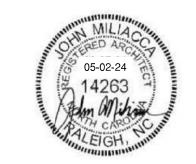
EMERGENCY LIGHT

EXTERIOR EMERGENCY LIGHT

MAX. TRAVEL DISTANCE







3

nspal ding port Road North Carol al Tra Build Global **Terminal** 2860 Jetp Kinston,

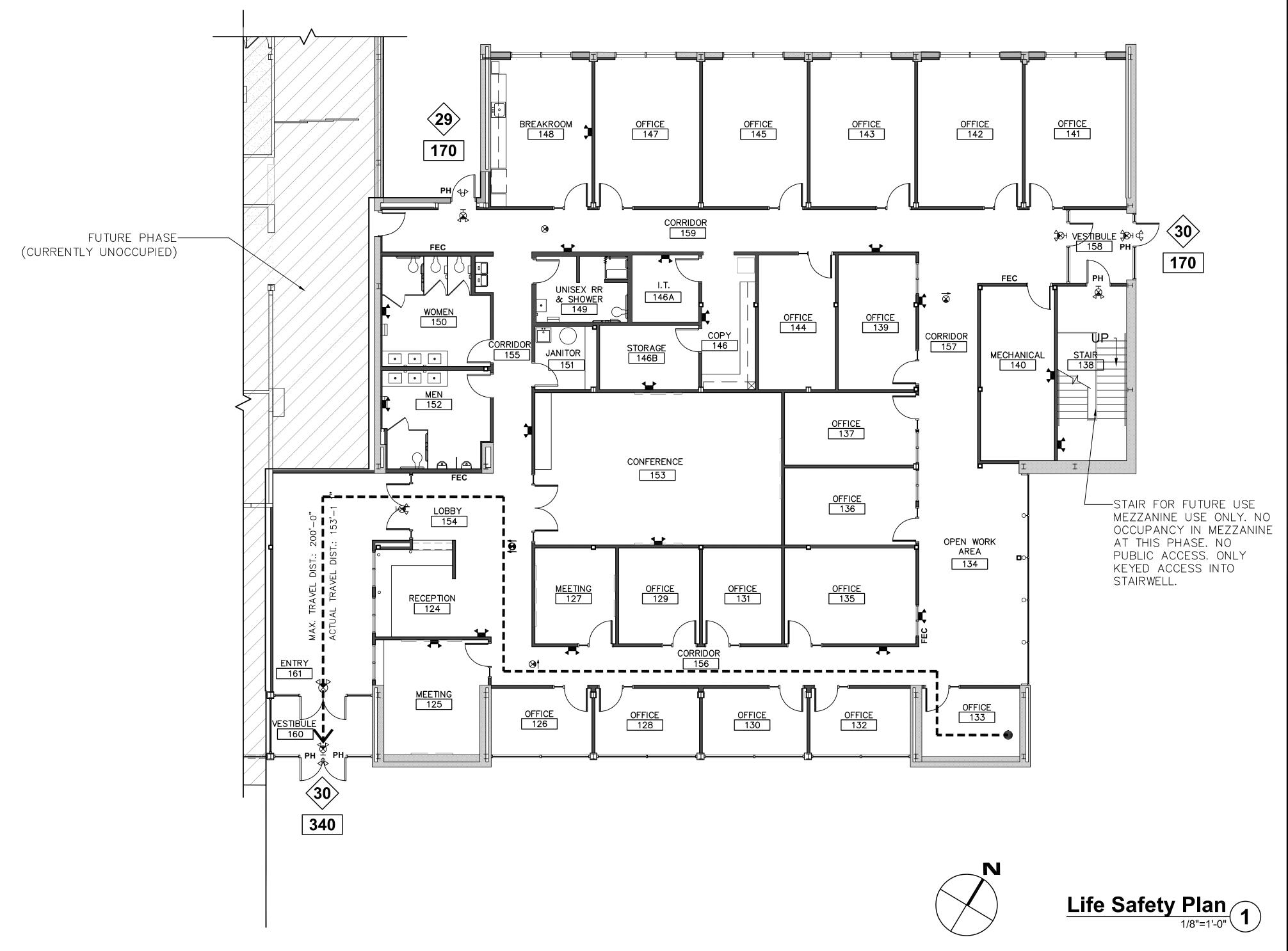
REVISIONS: # DESCRIPTION: DATE

SHEET NAME: Life Safety Plan

PHASE: **Construction Documents**

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **AMI/JMS/TN**

> SHEET NUMBER T1-3



ACCESSIBILITY GENERAL NOTES

ACCESSIBLE GENERAL NOTES (ICC A117.1-2009):

ACCESSIBLE ROUTE:

1. PILE THICKNESS OF SPECIFIED CARPETS DOES NOT EXCEED $\frac{1}{2}$ ".

2. FLOOR SURFACES SPECIFIED ARE SLIP-RESISTANT. 3. ABRUPT CHANGES IN LEVEL ALONG ACCESSIBLE ROUTE DO NOT EXCEED 1/2" IN HEIGHT. CHANGES GREATER THAN 1/4" AND NOT MORE THAN 1/2" IN HEIGHT ARE BEVELED WITH A SLOPE NO STEEPER THAN 1:2. (303.2-303.3)

4. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE FLOOR FINISH. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. (404.2.6)

5. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. (404.2.7.1)

6. SPRING HINGES - DOOR SPRING HINGES SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM. (404.2.7.2)

7. FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:

1. INTERIOR HINGED DOOR: 5.0 POUNDS MAXIMUM. 2. SLIDING OR FOLDING DOOR: 5.0 POUNDS MAXIMUM.

1. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION. (404.2.8) 8. ALL DOORWAYS ON AN ACCESSIBLE ROUTE SHALL HAVE A CLEAR

OPENING WIDTH OF 32 INCHES MINIMUM. 1. CLEAR OPENING WIDTH OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF DOOR AND

STOP, WITH THE DOOR OPEN 90 DEGREES. 2. OPENINGS MORE THAN 24 INCHES IN DEPTH AT DOORS AND

DOORWAYS WITHOUT DOORS MINIMUM. 3. THERE SHALL BE NO PROJECTIONS INTO THE CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FLOOR. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FLOOR SHALL NOT EXCEED 4 INCHES. (404.2.2)

9. FLOOR SURFACE WITHIN THE DOORWAY MANEUVERING CLEARANCE SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL COMPLY WITH SECTION 302. (404.2.3.1)

10. THRESHOLDS AT DOORWAYS SHALL BE 1/2 INCH MAXIMUM IN HEIGHT. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH SECTIONS 302 AND 303. (404.2.4)

11. RAMPS ON AN ACCESSIBLE ROUTE SHALL HAVE A RUNNING SLOPE GREATER THAN 1:20 AND NOT STEEPER THAN 1:12. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48. THE CLEAR WIDTH OF A RAMP RUN SHALL BE 36 INCHES MINIMUM. HANDRAILS AND HANDRAIL SUPPORTS THAT ARE PROVIDED ON THE RAMP TUN SHALL NOT PROJECT INTO THE REQUIRED CLEAR WIDTH OF THE RAMP RUN. (405)

12. STAIR TREADS AND RISERS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHT AND UNIFORM TREAD DEPTH. (504.2) 13. VISUAL CONTRAST FOR STAIR TREADS - THE LEADING 2 INCHES OF THE TREAD SHALL HAVE VISUAL CONTRAST OF DARK-ON-LIGHT OR

LIGHT-ON-DARK FROM THE REMAINDER OF THE TREAD. (504.5.1)

(ITCHEN, TOILET AND BATHING FACILITIES:

TOILET ROOM ACCESSORIES a. MIRRORS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FLOOR.

b. TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 309.4. WHERE THE DISPENSER IS LOCATED WITHIN AN AREA 24 INCHES MINIMUM AND 36 INCHES MAXIMUM FROM THE REAR WALL. WHERE THE DISPENSER IS LOCATED BELOW THE GRAB BAR, THE OUTLET OF THE DISPENSER SHALL BE LOCATED WITHIN AN AREA 24 INCHES MINIMUM AND 42 INCHES MAXIMUM FROM THE REAR WALL. DISPENSERS SHALL NOT BE OF A TYPE THAT

CONTROL DELIVERY, OR DO NOT ALLOW CONTINUOUS PAPER FLOW. (604.7) c. DISPENSING AND DISPOSAL FIXTURES (TOWEL, SANITARY

NAPKINS, WASTE, COIN SLOTS, ETC.) WITH OPERATING PARTS ARE MOUNTED NO HIGHER THAN 48 INCHES FROM THE FLOOR. 2. THE HEIGHT OF THE WATER CLOSET (TOP OF SEAT) SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE

FLOOR. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. (604.4) 3. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 309. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF

THE WATER CLOSET. (604.6) 4. DIAMETER OF CIRCULAR GRAB BARS TO BE 1-1/4 INCHES

MINIMUM AND 2 INCHES MAXIMUM. (609.2.1) 5. PROVIDE 1-1/2" CLEARANCE BETWEEN GRAB BARS AND WALL. PROVIDE 1 1/2 INCHES MINIMUM BETWEEN GRAB BAR AND PROJECTING OBJECTS BELOW AND AT ENDS OF THE GRAB BAR. PROVIDE 12 INCHES MINIMUM BETWEEN GRAB BAR AND PROJECTING OBJECTS ABOVE THE GRAB BAR. (609.3)

6. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE OR SHALL BE INSTALLED AS REQUIRED BY:

A. THE LOWER GRAB BAR ON THE BACK WALL OF A BATHTUB SHALL COMPLY WITH SECTION 607.4.1.1 OR 607.4.2.1.

B. VERTICAL GRAB BARS SHALL COMPLY WITH SECTION 604.5.1, 607.4.1.2.2, 607.4.2.2, AND 608.3.1.2. (609.4.1)

7. GRAB BARS (INCLUDING CONNECTORS, FASTENERS, SUPPORT BACKING, ETC.) SHALL SUPPORT A 250 POUND LOAD. (609.8) 8. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS. (609.6)

9. GRAB BARS AND ANY ADJACENT SURFACE SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED.(609.5) 10. CLEAR FLOOR SPACE 30" X 48" IS PROVIDED IN FRONT OF LAVATORY TO PERMIT A FORWARD APPROACH, UNLESS NOTED OTHERWISE. SINKS AND LAVATORIES ARE MOUNTED TO COMPLY WITH KNEE SPACE REQUIREMENTS OF SECTION 306. THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES. (606.2)

1. FAUCET CONTROLS AND OPERATING MECHANISMS ARE TO BE OPERABLE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS. SELF-CLOSING CONTROLS ARE TO REMAIN OPEN FOR AT LEAST 10

SECONDS. (309.4) 12. HOT WATER AND DRAIN PIPES UNDER LAVATORIES ARE INSULATED OR OTHERWISE COVERED.

13. WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS. (606.6)

DEVICES:

1. ELECTRICAL RECEPTACLE OUTLETS ARE SPECIFIED TO BE NOT LESS THAN 15 ABOVE THE FLOOR OR WORKING PLATFORM.



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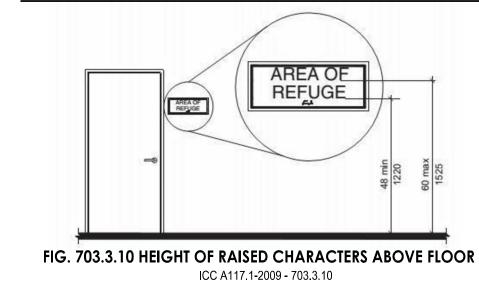
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SHEET NAME: **General ADA Information**

Construction Documents

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **AMI/JMS/TN**



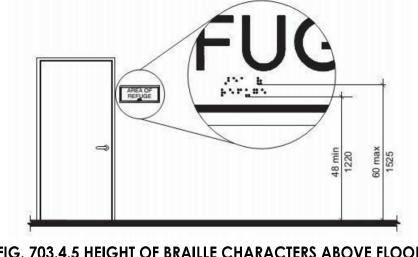
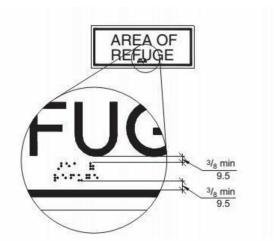


FIG. 703.4.5 HEIGHT OF BRAILLE CHARACTERS ABOVE FLOOR ICC A117.1-2009 - 703.4.5



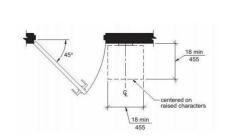


FIG. 703.4.4 POSITION OF BRAILLE
ICC A117.1-2009 - 703.4.4

FIG. 703.3.11 LOCATION OF SIGNS AT DOORS
ICC A117.1-2009 - 703.3.11

SIGNAGE NOTES

- 1. PROVIDE ROOM SIGNS AT ALL PUBLIC ROOM DOORS.
- 2. PROVIDE UNIT NUMBER SIGNS AT ALL APARTMENT ENTRY DOORS AND STORAGE ROOM DOORS. REVIEW AND APPROVE UNIT NUMBERING WITH LOCAL FIRE MARSHAL PRIOR TO INSTALLATION.
- 3. PROVIDE 5/8" TALL RAISED CHARACTERS AND TYPE 2 BRAILLE ON ALL SIGNS.
- 4. MOUNT SIGNS AT 48" AFF TO BOTTOM OF SIGN, MOUNT SIGNS ON WALL, NOT ON DOORS. LOCATE SIGN ADJACENT TO THE LATCH SIDE OF DOOR.
- 5. SIGNAGE SHALL COMPLY WITH 1009.9, 1013.4, 1111 & E107 OF THE NCSBC AND 703 OF A117.1.

SIGNAGE DETAILS

1/4" = 1'-0"

(WALL BEYOND)

MILLWORK LOCATIONS

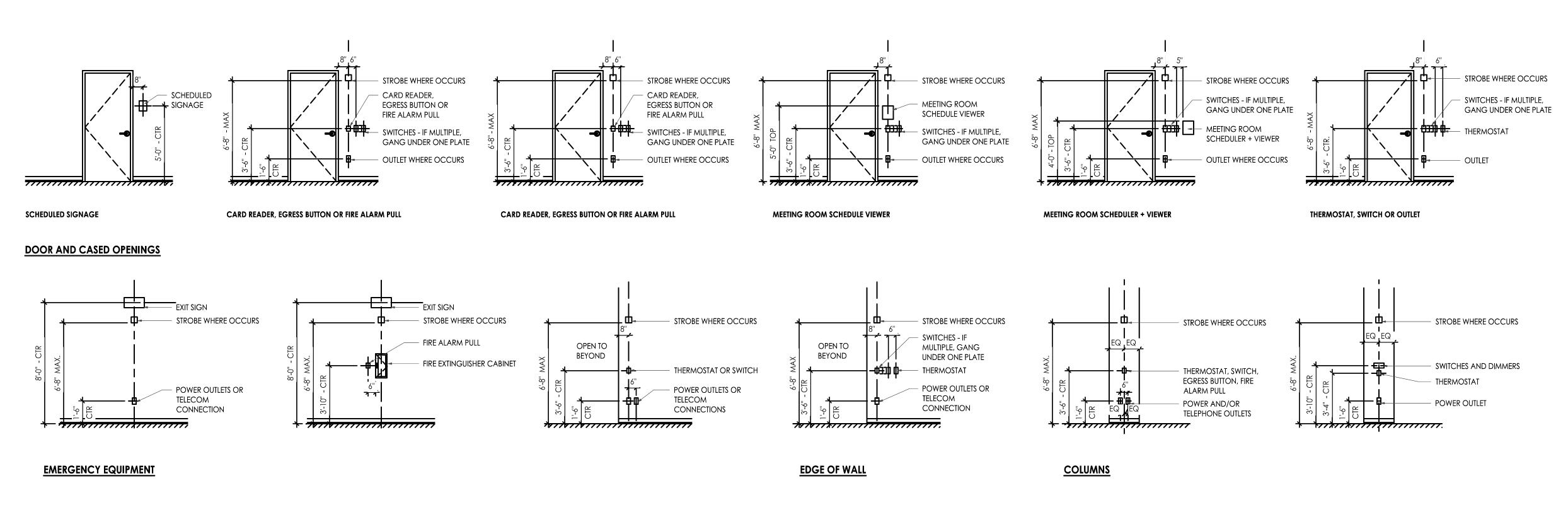
POWER OUTLET MOUNT HORIZONTALLY

WORKING SURFACE

REFER TO INTERIOR

ELEVATIONS FOR

CASEWORK

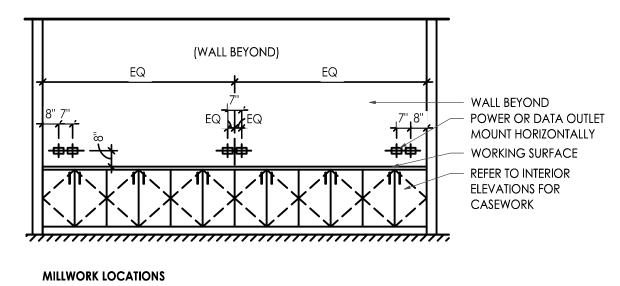


- PROVIDE GROMMET IN

POWER AND DATA

CONNECTION

WORKING SURFACE SURFACE



WORK SURFACES

UNDERCOUNTER POWER + DATA

(WALL BEYOND)

SHEET NUMBER

T1-5

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ISSUE DATE: **05/02/2024** PROJECT #: **18056C**

DRAWN BY: **AMI/JMS/TN**

Scope of Demolition Work

- ALL DEMOLITION WORK TO BE LIMITED TO THE AREA SHOWN ON DIAGRAM.
- NO WORK IS TO BE PERFORMED ON THE GREYED AREAS LABELED "NO WORK".
- 3. AREAS OF DEMOLITION SHOULD NOT INTERFERE WITH THE AREAS NOT INCLUDED ON THIS PHASE.
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Overall Demolition Floor Plan

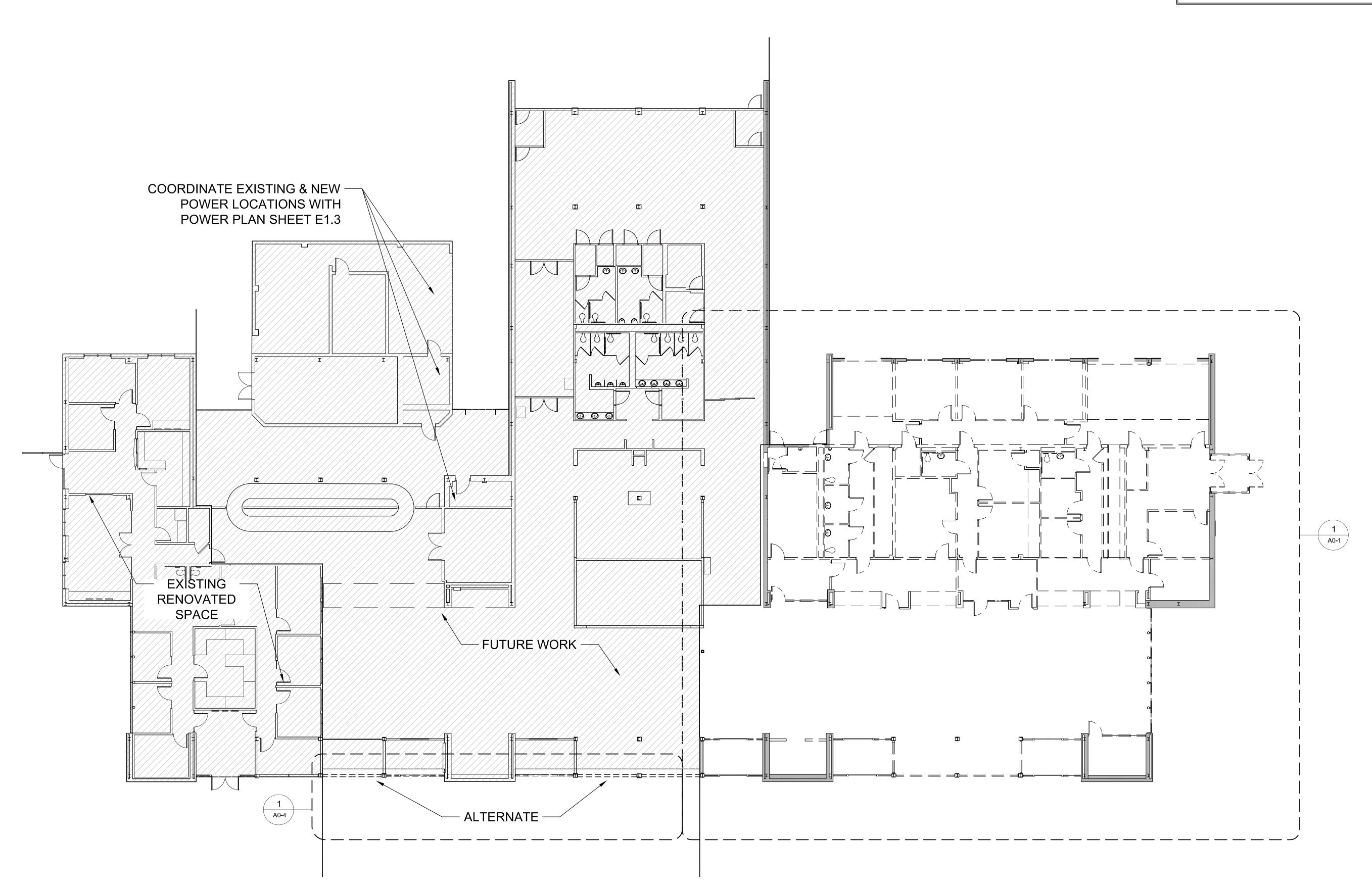
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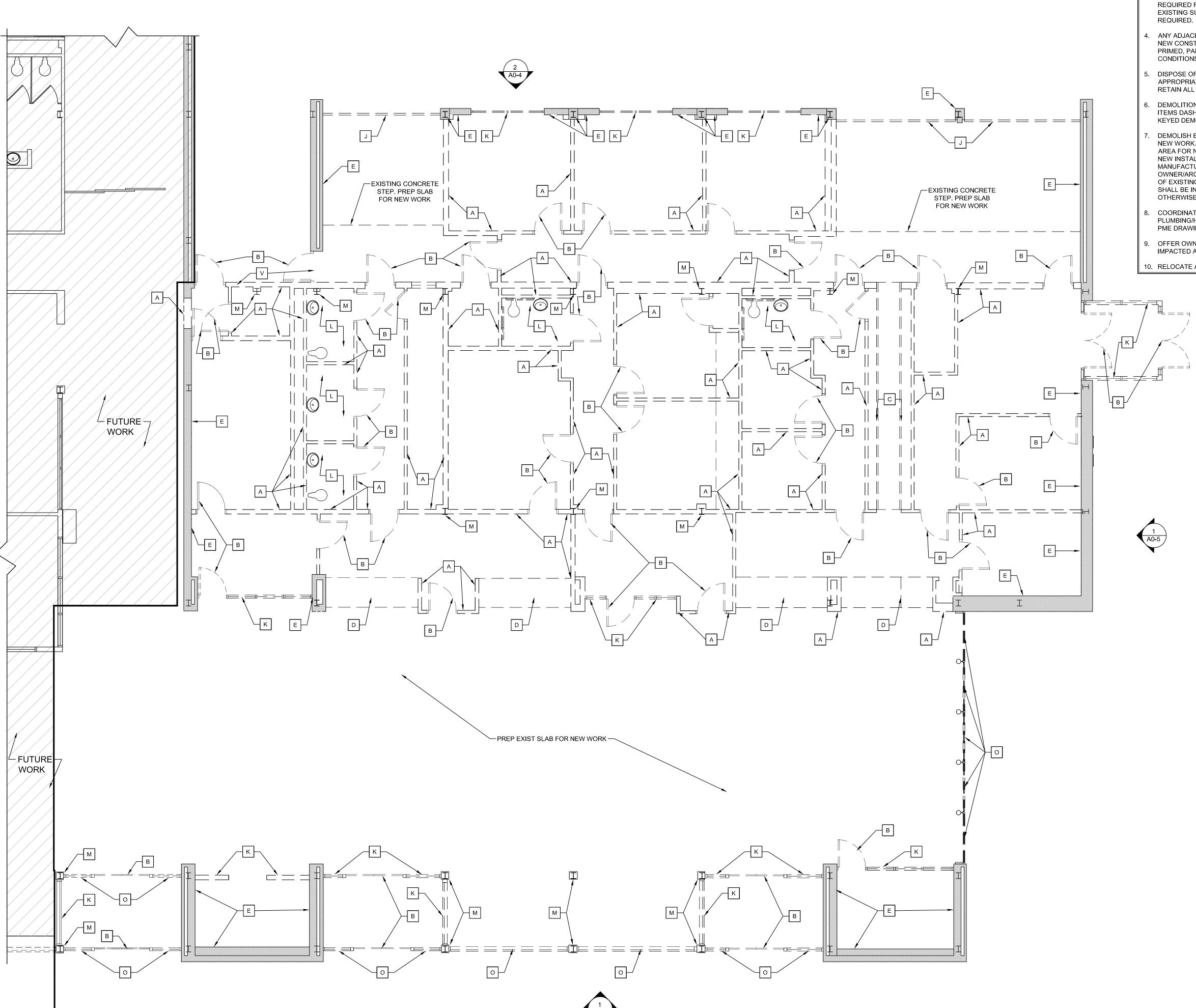
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SCALE: 3/32" = 1'-0"



General Demolition Notes

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- DISPOSE OF ALL DEBRIS AND WASTE MATERIAL IN APPROPRIATE LANDFILL AT CONTRACTOR'S EXPENSE. RETAIN ALL DISPOSAL RECORDS.
- DEMOLITION IS TO INCLUDE BUT NOT LIMITED TO ITEMS DASHED ON THE DRAWINGS AND AS NOTED IN KEYED DEMOLITION NOTES.
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- COORDINATE DEMOLITION AND PREPARATION OF PLUMBING/HVAC/ELECTRICAL/TELE/DATA ITEMS WITH PME DRAWINGS.
- OFFER OWNER FIRST RIGHT OF REFUSAL FOR ANY IMPACTED AUDIO/VISUAL EQUIPMENT.
- 10. RELOCATE ALL FIRE AND EMERGENCY DEVICES.

Keyed Demolition Notes A DEMOLISH WALL OR PORTION OF WALL AS SHOWN.

- B DEMOLISH DOOR, FRAME, & ALL ITS ATTACHMENTS.
- PREP EXISTING SURFACES TO REMAIN. C DEMOLISH EQUIPMENT. PREP AREA FOR NEW WORK.

11. PREPARE ALL EXISTING SURFACES TO REMAIN FOR

CONDITIONS AND FINISHES PRIOR TO START OF ANY

WORK. DISCREPANCIES SHALL BE BROUGHT TO THE

ATTENTION OF THE ARCHITECT AND OWNER FOR

EXISTING OPENINGS FOR INSTALLATION OF NEW

15. REMOVE ALL EXISTING AIRPORT/TERMINAL SIGNAGE

16. DEMOLISH EXISTING METAL CEILING TO THE EXTENT

NECESSARY FOR NEW MEZZANINE FRAMING. REFERENCE STRUCTURAL DRAWINGS FOR

17. DEMOLISH ALL EXISTING OUTLETS AND DEVICES

STOREFRONT IN SAME LOCATIONS OR AS NOTED IN

AND ROOM SIGNS WITHIN PROJECT SCOPE AND TURN

EVALUATION BEFORE SUBMITTING A BID OR

13. GC SHALL BE RESPONSIBLE FOR TOOTHING IN

MASONRY AS REQUIRED FOR NEW WORK.

14. REMOVE STOREFRONT AS NOTED. PREPARE

CONTINUING WITH WORK.

A1-1, A2-1, AND A8-1.

OVER TO OWNER.

MEZZANINE FRAMING.

12. FIELD VERIFY ALL EXISTING CONSTRUCTION

NEW WORK.

- D DEMOLISH CASEWORK & ALL ITS ATTACHMENTS.
- E EXISTING TO REMAIN. PROTECT DURING DEMO. G.C. RESPONSIBLE FOR ANY DAMAGE TO ITEMS EXISTING TO REMAIN.
- F DEMOLISH ANY DAMAGED GYP. PREP WALL FOR NEW GYP TO BE PATCHED BACK TO MATCH EXISTING ADJACENT WALLS.
- DEMOLISH EXISTING CARPET, VCT AND BASE IN PROJECT AREA. PREPARE ALL FLOORS IN PROJECT AREA FOR NEW FLOORING AND ALL WALLS FOR NEW BASE PER MANUFACTURERS REQUIREMENTS.
- H DEMOLISH EXISTING CEILING SYSTEM, TILE, LIGHT FIXTURES, AND OTHER CEILING MOUNTED ITEMS. PREPARE SPACE TO RECEIVE NEW CEILING.
- T DEMOLISH EXISTING PLUMBING FIXTURE.
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- DEMOLISH EXISTING RESTROOM PARTITIONS, DOORS, CASEWORK, PLUMBING FIXTURES, WALL FIXTURES, FLOOR, AND WALL TILE. PREP FOR INSTALLATION OF SIMILAR ITEMS IN SAME LOCATIONS.
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- P DEMOLISH EXISTING RAILING. PREP SURFACES TO REMAIN AS REQUIRED FOR NEW WORK.
- O DEMOLISH EXISTING SIGNAGE. PREP SURFACES TO REMAIN FOR NEW WORK.
- R DEMOLISH EXISTING PLASTIC STRIP CURTAINS. PREP FOR NEW WORK.
- DEMOLISH CANOPY SYSTEM. PATCH AND REPAIR EXISTING GYP AS REQUIRED FOR NEW WORK.
- DEMOLISH EXISTING CEILING FANS.
- DEMOLISH EXISTING METAL LOUVER PANELS. PREPARE SPACE TO RECEIVE NEW CURTAINWALL.



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Enlarged Demolition Floor Plan

Construction Documents

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **AMI/JMS/TN**

Demolition Floor Plan
3/16" = 1'-0"

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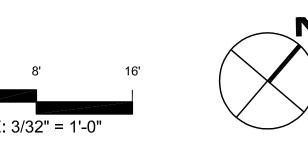
Overall Demolition Reflected Ceiling Plan
3/32" = 1'-0"

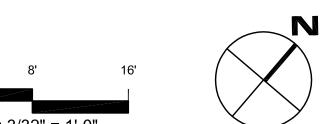
SHEET NAME: Overall Demolition Reflected Ceiling Plan

Construction Documents

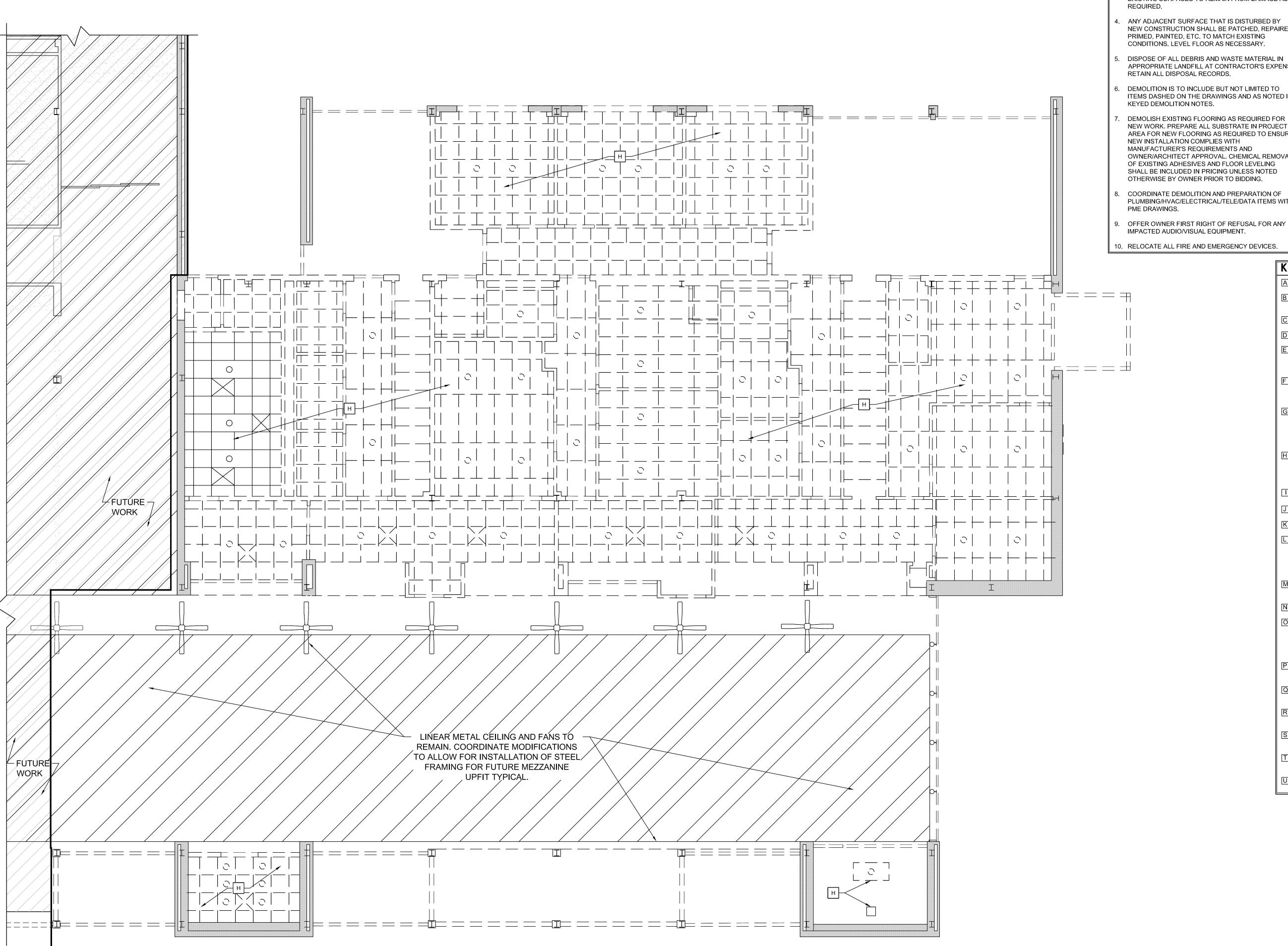
ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **AMI/JMS/TN**

SHEET NUMBER
A0-2





FUTÚRE WORK



General Demolition Notes

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- COORDINATE DEMOLITION AND PREPARATION OF PLUMBING/HVAC/ELECTRICAL/TELE/DATA ITEMS WITH PME DRAWINGS.
- IMPACTED AUDIO/VISUAL EQUIPMENT.
- 10. RELOCATE ALL FIRE AND EMERGENCY DEVICES.

11. PREPARE ALL EXISTING SURFACES TO REMAIN FOR

NEW WORK.

- 12. FIELD VERIFY ALL EXISTING CONSTRUCTION CONDITIONS AND FINISHES PRIOR TO START OF ANY WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER FOR EVALUATION BEFORE SUBMITTING A BID OR CONTINUING WITH WORK.
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- 15. REMOVE ALL EXISTING AIRPORT/TERMINAL SIGNAGE AND ROOM SIGNS WITHIN PROJECT SCOPE AND TURN OVER TO OWNER.
- 16. DEMOLISH EXISTING METAL CEILING TO THE EXTENT NECESSARY FOR NEW MEZZANINE FRAMING. REFERENCE STRUCTURAL DRAWINGS FOR MEZZANINE FRAMING.
- 17. DEMOLISH ALL EXISTING OUTLETS AND DEVICES



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F DEMOLISH ANY DAMAGED GYP. PREP WALL FOR NEW GYP TO BE PATCHED BACK TO MATCH EXISTING ADJACENT WALLS. DEMOLISH EXISTING CARPET, VCT AND BASE

- IN PROJECT AREA. PREPARE ALL FLOORS IN PROJECT AREA FOR NEW FLOORING AND ALL WALLS FOR NEW BASE PER MANUFACTURERS REQUIREMENTS.
- H DEMOLISH EXISTING CEILING SYSTEM, TILE, LIGHT FIXTURES, AND OTHER CEILING MOUNTED ITEMS. PREPARE SPACE TO RECEIVE NEW CEILING.
- ☐ DEMOLISH EXISTING PLUMBING FIXTURE.
- J DEMOLISH ROLL-UP METAL DOOR.

Keyed Demolition Notes

TO REMAIN.

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C DEMOLISH EQUIPMENT. PREP AREA FOR NEW WORK.

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RESPONSIBLE FOR ANY DAMAGE TO ITEMS EXISTING

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- DEMOLISH EXISTING CEILING FANS.
- DEMOLISH EXISTING METAL LOUVER PANELS. PREPARE SPACE TO RECEIVE NEW CURTAINWALL.

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SHEET NAME: **Enlarged Demolition**

Construction Documents

Reflected Ceiling Plan

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **AMI/JMS/TN**

Keyed Demolition Notes B DEMOLISH DOOR, FRAME, & ALL ITS ATTACHMENTS. PREP EXISTING SURFACES TO REMAIN. C DEMOLISH EQUIPMENT. PREP AREA FOR NEW WORK. D DEMOLISH CASEWORK & ALL ITS ATTACHMENTS. E EXISTING TO REMAIN. PROTECT DURING DEMO. G.C. RESPONSIBLE FOR ANY DAMAGE TO ITEMS EXISTING TO REMAIN. F DEMOLISH ANY DAMAGED GYP. PREP WALL FOR NEW GYP TO BE PATCHED BACK TO MATCH EXISTING ADJACENT WALLS. G DEMOLISH EXISTING CARPET, VCT AND BASE IN PROJECT AREA. PREPARE ALL FLOORS IN PROJECT AREA FOR NEW FLOORING AND ALL WALLS FOR NEW BASE PER MANUFACTURERS REQUIREMENTS. H DEMOLISH EXISTING CEILING SYSTEM, TILE, LIGHT FIXTURES, AND OTHER CEILING MOUNTED ITEMS. PREPARE SPACE TO RECEIVE NEW CEILING. ☐ DEMOLISH EXISTING PLUMBING FIXTURE. J DEMOLISH ROLL-UP METAL DOOR. K DEMOLISH GLAZING AND ASSOCIATED FRAMES. DEMOLISH EXISTING RESTROOM PARTITIONS, DOORS, CASEWORK, PLUMBING FIXTURES,

WALL FIXTURES, FLOOR, AND WALL TILE.
PREP FOR INSTALLATION OF SIMILAR ITEMS

IN SAME LOCATIONS.

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 - DEMOLISH EXISTING METAL LOUVER PANELS. PREPARE SPACE RECEIVE NEW CURTAINWALL. EXISTING BUILDING STEEL TO REMAIN IF UNCOVERED DURING DEMOLITION. NEW STEEL TO BE INSTALLED AS REQUIRED. SEE STRUCTURAL.
 - DEMOLISH EXISTING WALLS AS SHOWN ON SHEET A0-1
 ADJACENT TO DEMOLISHED DOORS ON THE REAR AND SIDE OF
 THE BUILDING. PREPARE FOR NEW DOOR AND FRAME IN NEW
 LOCATION.

General Demolition Notes

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- 10. RELOCATE ALL FIRE AND EMERGENCY DEVICES.

- 11. PREPARE ALL EXISTING SURFACES TO REMAIN FOR NEW WORK.
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- 16. DEMOLISH EXISTING METAL CEILING TO THE EXTENT NECESSARY FOR NEW MEZZANINE FRAMING. REFERENCE STRUCTURAL DRAWINGS FOR MEZZANINE FRAMING.
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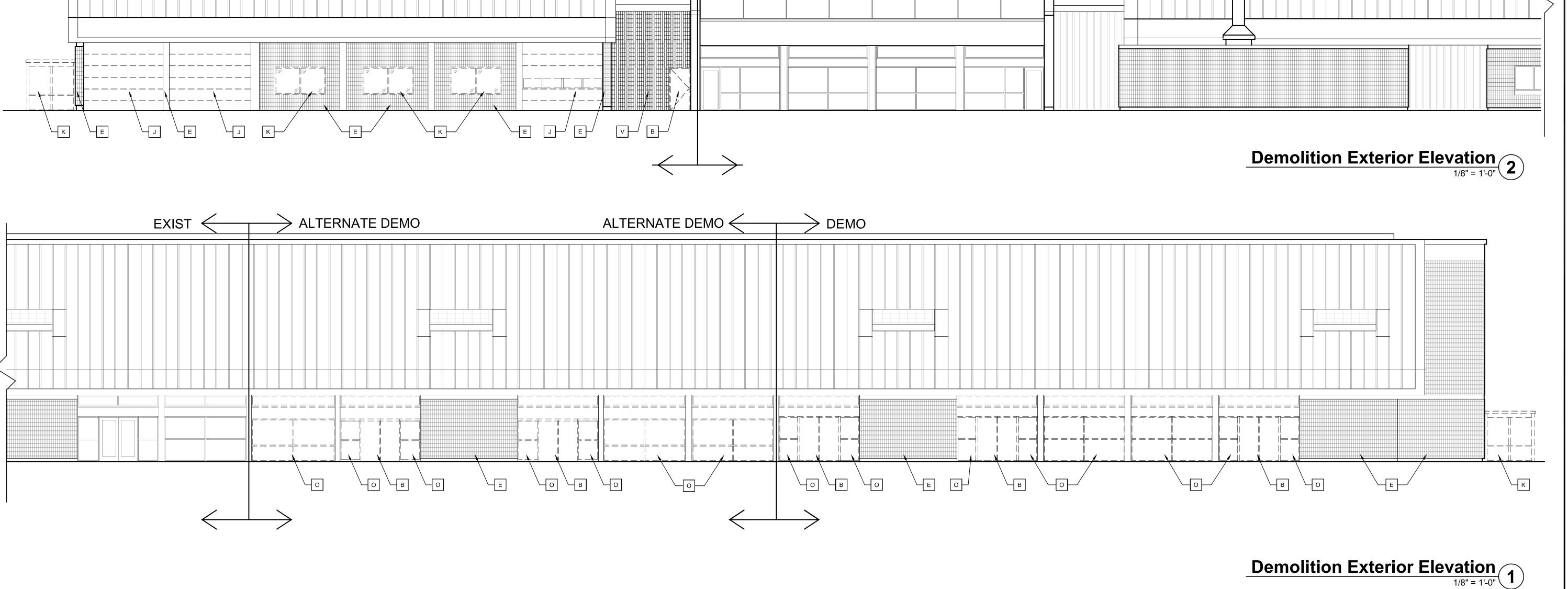
SHEET NAME: **Demolition Exterior Elevations**

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Construction Documents

ISSUE DATE: 05/02/2024
PROJECT #: 18056C
DRAWN BY: AMI/JMS/TN

SHEET NUMBER

A0-4



Keyed Demolition Notes

- A DEMOLISH WALL OR PORTION OF WALL AS SHOWN.
- B DEMOLISH DOOR, FRAME, & ALL ITS ATTACHMENTS. PREP EXISTING SURFACES TO REMAIN.
- © DEMOLISH EQUIPMENT. PREP AREA FOR NEW WORK.
- D DEMOLISH CASEWORK & ALL ITS ATTACHMENTS.
- E EXISTING TO REMAIN. PROTECT DURING DEMO. G.C. RESPONSIBLE FOR ANY DAMAGE TO ITEMS EXISTING TO REMAIN.
- F DEMOLISH ANY DAMAGED GYP. PREP WALL FOR NEW GYP TO BE PATCHED BACK TO MATCH EXISTING ADJACENT WALLS.
- DEMOLISH EXISTING CARPET, VCT AND BASE IN PROJECT AREA. PREPARE ALL FLOORS IN PROJECT AREA FOR NEW FLOORING AND ALL WALLS FOR NEW BASE PER MANUFACTURERS REQUIREMENTS.
- H DEMOLISH EXISTING CEILING SYSTEM, TILE, LIGHT FIXTURES, AND OTHER CEILING MOUNTED ITEMS. PREPARE SPACE TO RECEIVE NEW CEILING.
- DEMOLISH EXISTING PLUMBING FIXTURE.
- J DEMOLISH ROLL-UP METAL DOOR.
- K DEMOLISH GLAZING AND ASSOCIATED FRAMES.
- DEMOLISH EXISTING RESTROOM PARTITIONS, DOORS, CASEWORK, PLUMBING FIXTURES, WALL FIXTURES, FLOOR, AND WALL TILE. PREP FOR INSTALLATION OF SIMILAR ITEMS IN SAME LOCATIONS.

- M DEMOLISH COLUMN WRAP TO EXPOSE STEEL. PREP FOR NEW WORK.
- N DEMOLISH EXISTING SOFFIT. REFER TO NEW WORK.
- O DEMOLISH ALL EXTERIOR GLAZING, MULLIONS, SIGNS, AND TRANSOM PANELS. PREP FOR INSTALLATION OF NEW STOREFRONT IN SAME LOCATION. EXISTING ALUMINUM COLUMN WRAPS TO REMAIN. REF. A2-2 FOR NEW WORK.
- P DEMOLISH EXISTING RAILING. PREP SURFACES TO REMAIN AS REQUIRED FOR NEW WORK.
- Q DEMOLISH EXISTING SIGNAGE. PREP SURFACES TO REMAIN FOR NEW WORK.
- R DEMOLISH EXISTING PLASTIC STRIP CURTAINS. PREP FOR NEW WORK.
- S DEMOLISH CANOPY SYSTEM. PATCH AND REPAIR EXISTING GYP AS REQUIRED FOR NEW WORK.
- T DEMOLISH EXISTING CEILING FANS.
- DEMOLISH EXISTING METAL LOUVER PANELS. PREPARE SPACE RECEIVE NEW CURTAINWALL. EXISTING BUILDING STEEL TO REMAIN IF UNCOVERED DURING DEMOLITION. NEW STEEL TO BE INSTALLED AS REQUIRED. SEE STRUCTURAL.
- DEMOLISH EXISTING WALLS AS SHOWN ON SHEET A0-1
 ADJACENT TO DEMOLISHED DOORS ON THE REAR AND SIDE OF
 THE BUILDING. PREPARE FOR NEW DOOR AND FRAME IN NEW
 LOCATION.

General Demolition Notes

- 1. REFERENCE A1-1 FOR NEW WORK.
- 2. GC IS RESPONSIBLE FOR ANY ABATEMENT. REFER TO SPECS FOR HAZARDOUS MATERIALS REPORT.
- 3. ALL DEMOLITION IS TO BE LIMITED TO THE EXTENT REQUIRED FOR NEW WORK. PROTECT ALL ITEMS AND EXISTING SURFACES TO REMAIN FROM DAMAGE AS REQUIRED.
- 4. ANY ADJACENT SURFACE THAT IS DISTURBED BY NEW CONSTRUCTION SHALL BE PATCHED, REPAIRED, PRIMED, PAINTED, ETC. TO MATCH EXISTING CONDITIONS. LEVEL FLOOR AS NECESSARY.
- 5. DISPOSE OF ALL DEBRIS AND WASTE MATERIAL IN APPROPRIATE LANDFILL AT CONTRACTOR'S EXPENSE. RETAIN ALL DISPOSAL RECORDS.
- 6. DEMOLITION IS TO INCLUDE BUT NOT LIMITED TO ITEMS DASHED ON THE DRAWINGS AND AS NOTED IN KEYED DEMOLITION NOTES.
- DEMOLISH EXISTING FLOORING AS REQUIRED FOR NEW WORK. PREPARE ALL SUBSTRATE IN PROJECT AREA FOR NEW FLOORING AS REQUIRED TO ENSURE NEW INSTALLATION COMPLIES WITH MANUFACTURER'S REQUIREMENTS AND OWNER/ARCHITECT APPROVAL. CHEMICAL REMOVAL OF EXISTING ADHESIVES AND FLOOR LEVELING SHALL BE INCLUDED IN PRICING UNLESS NOTED OTHERWISE BY OWNER PRIOR TO BIDDING.
- 3. COORDINATE DEMOLITION AND PREPARATION OF PLUMBING/HVAC/ELECTRICAL/TELE/DATA ITEMS WITH PME DRAWINGS.
- OFFER OWNER FIRST RIGHT OF REFUSAL FOR ANY IMPACTED AUDIO/VISUAL EQUIPMENT.

10. RELOCATE ALL FIRE AND EMERGENCY DEVICES.

- 11. PREPARE ALL EXISTING SURFACES TO REMAIN FOR NEW WORK.
- 12. FIELD VERIFY ALL EXISTING CONSTRUCTION CONDITIONS AND FINISHES PRIOR TO START OF ANY WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND OWNER FOR EVALUATION BEFORE SUBMITTING A BID OR CONTINUING WITH WORK.
- 13. GC SHALL BE RESPONSIBLE FOR TOOTHING IN MASONRY AS REQUIRED FOR NEW WORK.
- 14. REMOVE STOREFRONT AS NOTED. PREPARE EXISTING OPENINGS FOR INSTALLATION OF NEW STOREFRONT IN SAME LOCATIONS OR AS NOTED IN A1-1, A2-1, AND A8-1.
- 15. REMOVE ALL EXISTING AIRPORT/TERMINAL SIGNAGE AND ROOM SIGNS WITHIN PROJECT SCOPE AND TURN OVER TO OWNER.
- 16. DEMOLISH EXISTING METAL CEILING TO THE EXTENT NECESSARY FOR NEW MEZZANINE FRAMING. REFERENCE STRUCTURAL DRAWINGS FOR MEZZANINE FRAMING.
- 17. DEMOLISH ALL EXISTING OUTLETS AND DEVICES



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Global Transpark minal Building: Phas

3

EVISIONS:

REVISIONS:

DESCRIPTION:

DATE

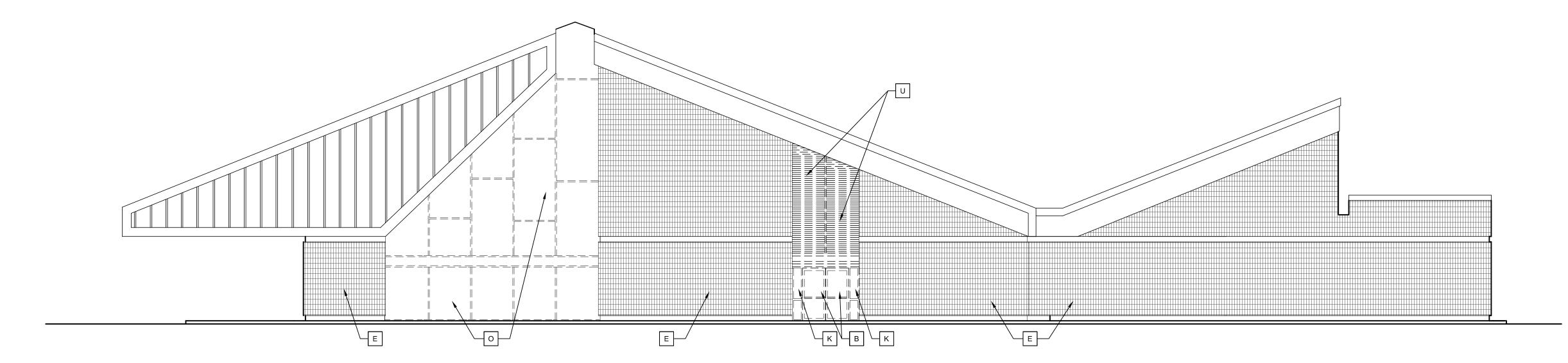
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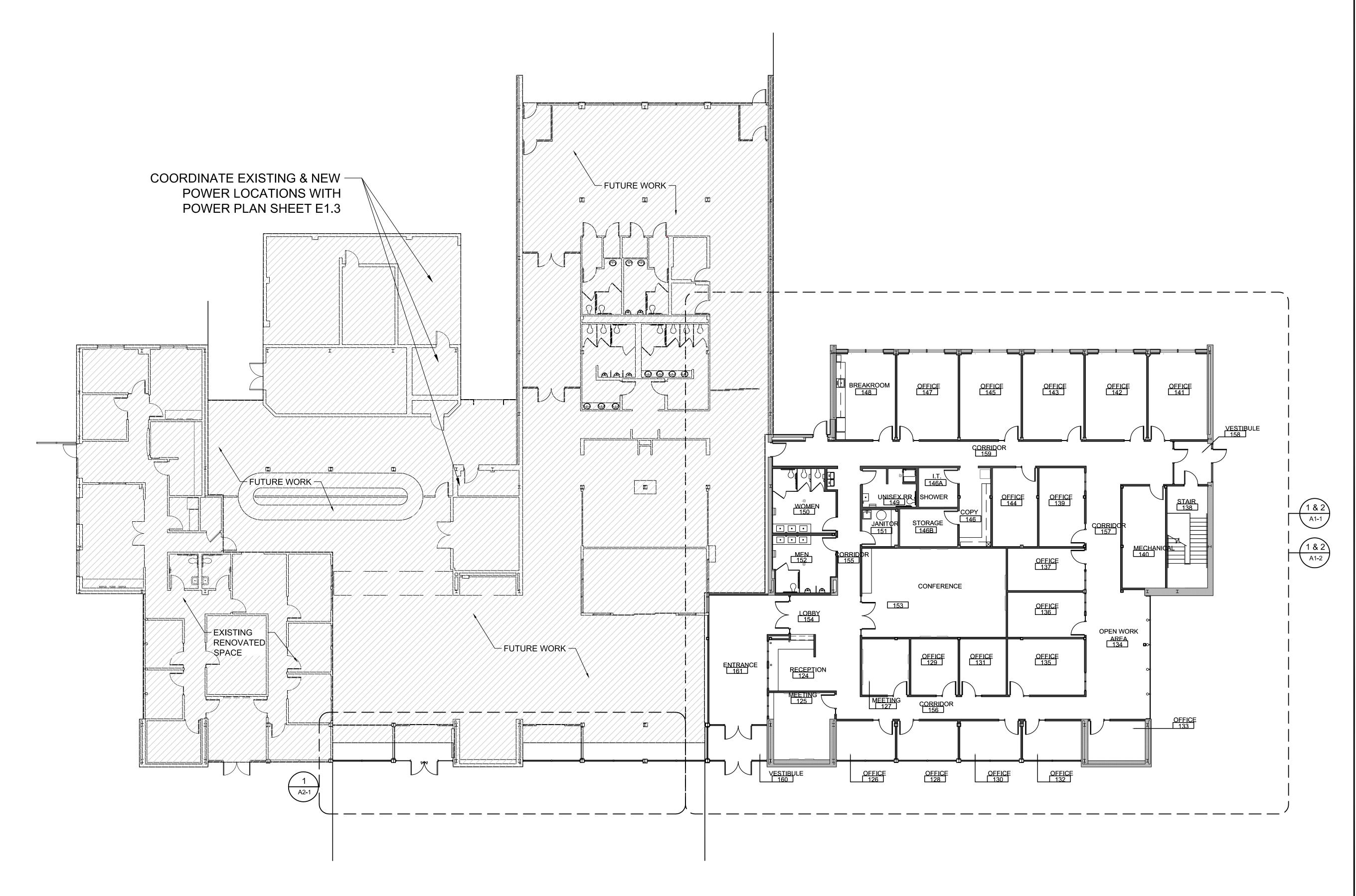
Demolition Exterior Elevation

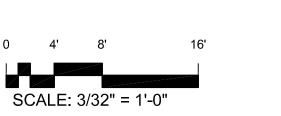
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Construction Documents

ISSUE DATE: 05/02/2024
PROJECT #: 18056C
DRAWN BY: AMI/JMS/TN

SHEET NUMBER
A0-5









Overall Renovation Floor Plan
3/32" = 1'-0"



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anspark |ding: Phase 3

Terminal Building: 2860 Jetport Road

REVISIONS:
DESCRIPTION: DATE

SHEET NAME:
Overall Floor Plan

PHASE:
Construction Documents

ISSUE DATE: 05/02/2024
PROJECT #: 18056C
DRAWN BY: AMI/JMS/TN

A1-0



- 1. G.C. SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION, CONSTRUCTION OR FABRICATION. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE NC BUILDING CODE. THE G.C. SHALL NOTIFY THE ARCHITECT AND NC GLOBAL TRANSPARK IN WRITING REGARDING ANY DISCREPANCIES ON THE PLANS. IF REQUIRED, G.C. IS RESPONSIBLE FOR PERMITS, INSPECTIONS, AND FEES.
- 2. G.C. SHALL COORDINATE WORK HOURS WITH NC DOT GLOBAL TRANSPARK.
- 3. FINAL CLEANING OF THE BUILDING SHALL BE BY THE G.C. PRIOR TO OCCUPANCY.
- 4. INTERIOR WALL CONSTRUCTION SHALL BE 3-5/8" METAL STUDS @ 16" O.C. MAXIMUM UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE FROM FACE OF EXISTING MASONRY TO FACE NEW MASONRY OR FACE OF NEW STUDS.
- 5. UNLESS NOTED OTHERWISE, WATER-RESISTANT 5/8" GYPSUM BOARD SHEATHING SHALL BE USED IN ALL LOCATIONS SUBJECT TO MOISTURE



EXISTING CMU WALL

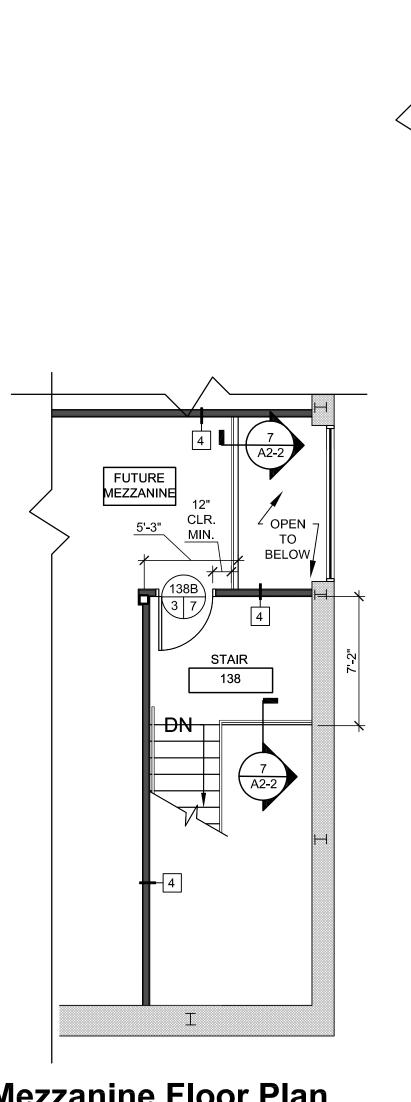
NEW CMU EXTERNAL WALL

NEW INTERIOR WALL

*ALL NEW INTERIOR PARTITIONS TO BE PARTITION TYPE 1: 3-5/8" METAL STUDS SPACED AT 16" O.C. WITH 3-1/2" SOUND ATTENUATION BLANKETS. 5/8" GWB ON BOTH SIDES (ALL EXPOSED SIDES), 4" ABOVE CEILING, UNLESS TAGGED OTHERWISE. REFERENCE A2-3 FOR PARTITION SCHEDULE.

**ALL EXTERIOR WALL PATCHING SHALL BE 8" LIGHT WEIGHT CMU TO MATCH COLOR AND FINISH OF EXISTING ADJACENT BUILDING. INSTALL 3-5/8" STUD WALLS TO 4" ABOVE CEILING WITH $\frac{5}{8}$ " GWB ON ALL EXPOSED INTERIOR SIDES AS SHOWN ON DRAWINGS.

***ALL NEW AND EXISTING COLUMNS SHALL BE ALIGNED WITH NEW WALLS AS SHOWN. ALL EXPOSED SIDES OF COLUMN SHALL BE WRAPPED WITH 5/8" GYP BRD. TYPICAL.







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Phase 3

NC Global Transpark
Terminal Building: Pk
2860 Jetport Road

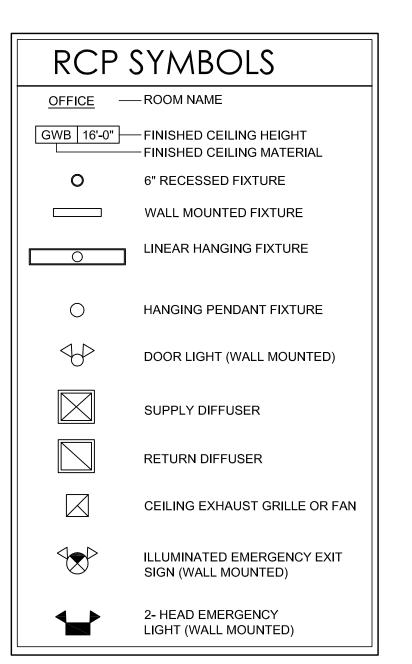
REVISIONS:

DESCRIPTION: DATE

SHEET NAME:
Enlarged Floor Plans

PHASE:
Construction Documents

ISSUE DATE: 05/02/2024
PROJECT #: 18056C
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*CEILING HEIGHT CONTINGENT UPON MEZZANINE FLOOR STRUCTURE & DUCTWORK HEIGHTS. INTENT IS TO HAVE CEILINGS AT HIGHEST POSSIBLE HEIGHT.

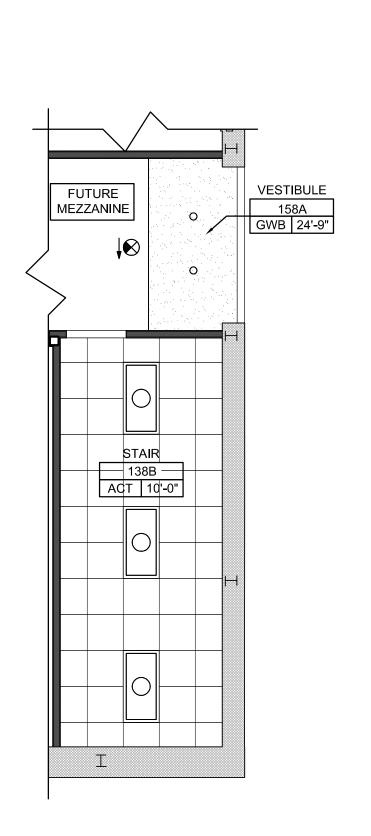
*ALL LAY IN CEILING TILE IS SPECIFIED AS SPECIFIED AND SHOULD BE INSTALLED AT SPECIFIED HEIGHTS ON PLAN TYP. SEE SPECIFICATIONS FOR MORE DETAILS.

*ALL BULKHEADS CONSTRUCTED WITH 5/8 GYP. BRD. TYP. AND INSTALLED AT 9'-0" A.F.F. UNLESS OTHERWISE NOTED. PAINT AS SCHEDULED TYP.

*INSTALL ALL EMERGENCY LIGHTING AND EXIT SIGNS WHERE LOCATED ON PLANS. SEE LIGHTING PLAN FOR MORE DETAILS.

*SEE MECHANICAL AND LIGHTING SHEETS FOR LOCATIONS AND DETAILS.

*INSTALL BATT INSULATION OVER NEW CEILING GRID FOR SOUND ATTENTUATION



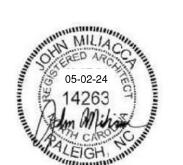
Mezzanine Floor Plan Enlarged Stairwell 3/16" = 1'-0" 2





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ark : Phase 3

NC Global Transpal
Terminal Building:
2860 Jetport Road
Kinston North Carolina

REVISIONS:

DESCRIPTION: DATE

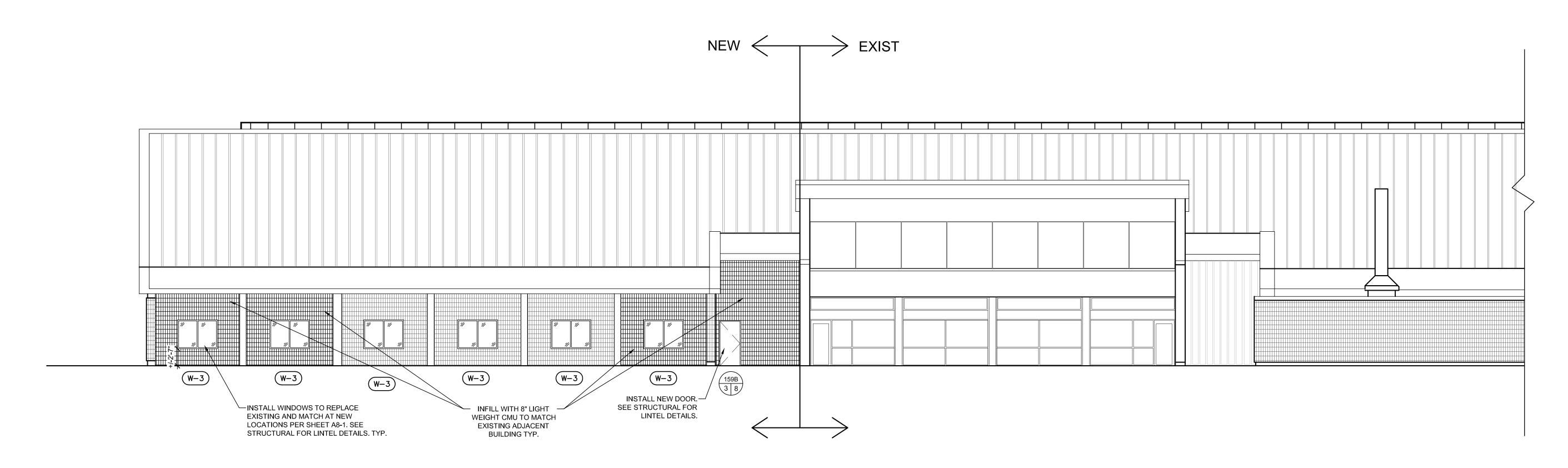
SHEET NAME:
Enlarged Reflected Ceiling

PHASE:
Construction Documents

ISSUE DATE: 05/02/2024
PROJECT #: 18056C
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SHEET NUMBER

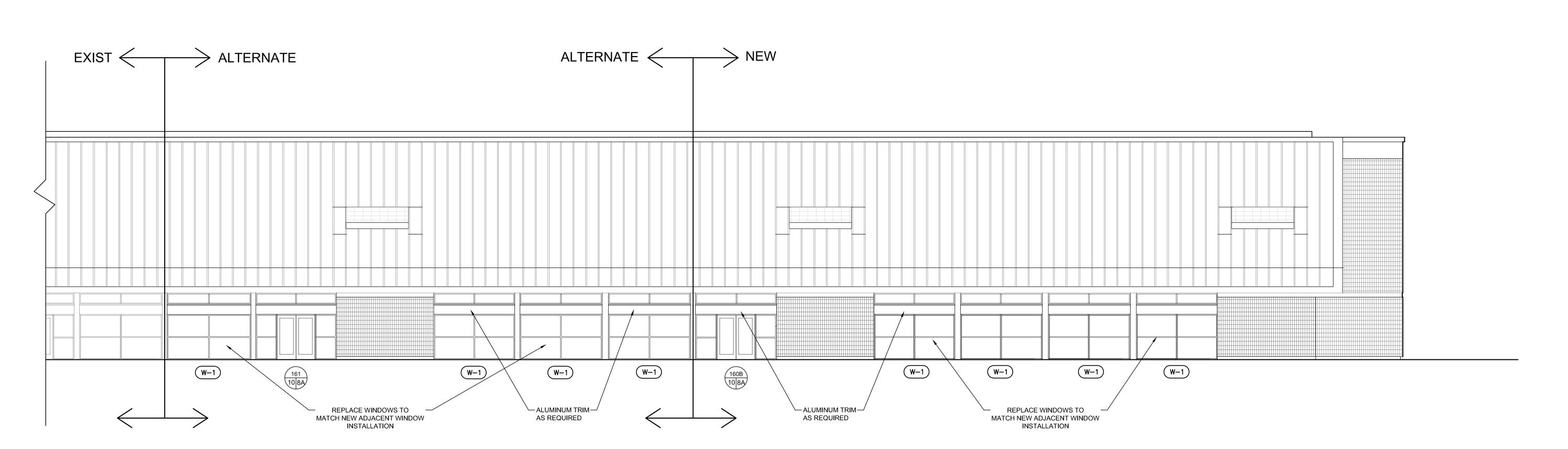
A1-2



Exterior Renovation Elevation

1/8" = 1'-0"

1







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3

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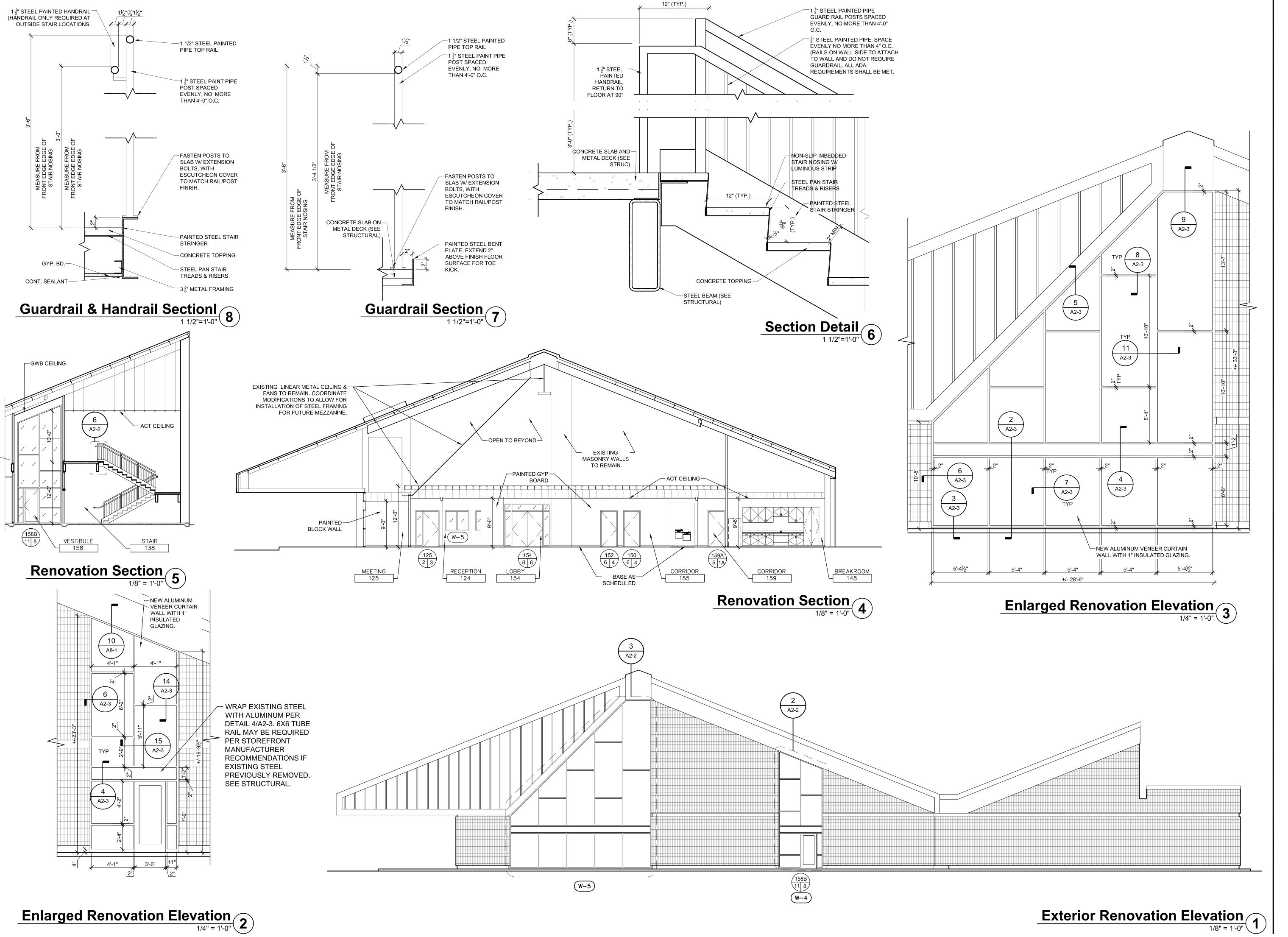
REVISIONS:

DESCRIPTION: DATE

SHEET NAME:
Exterior Building
Elevations

PHASE:
Construction Documents

ISSUE DATE: 05/02/2024
PROJECT #: 18056C
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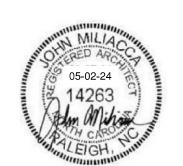


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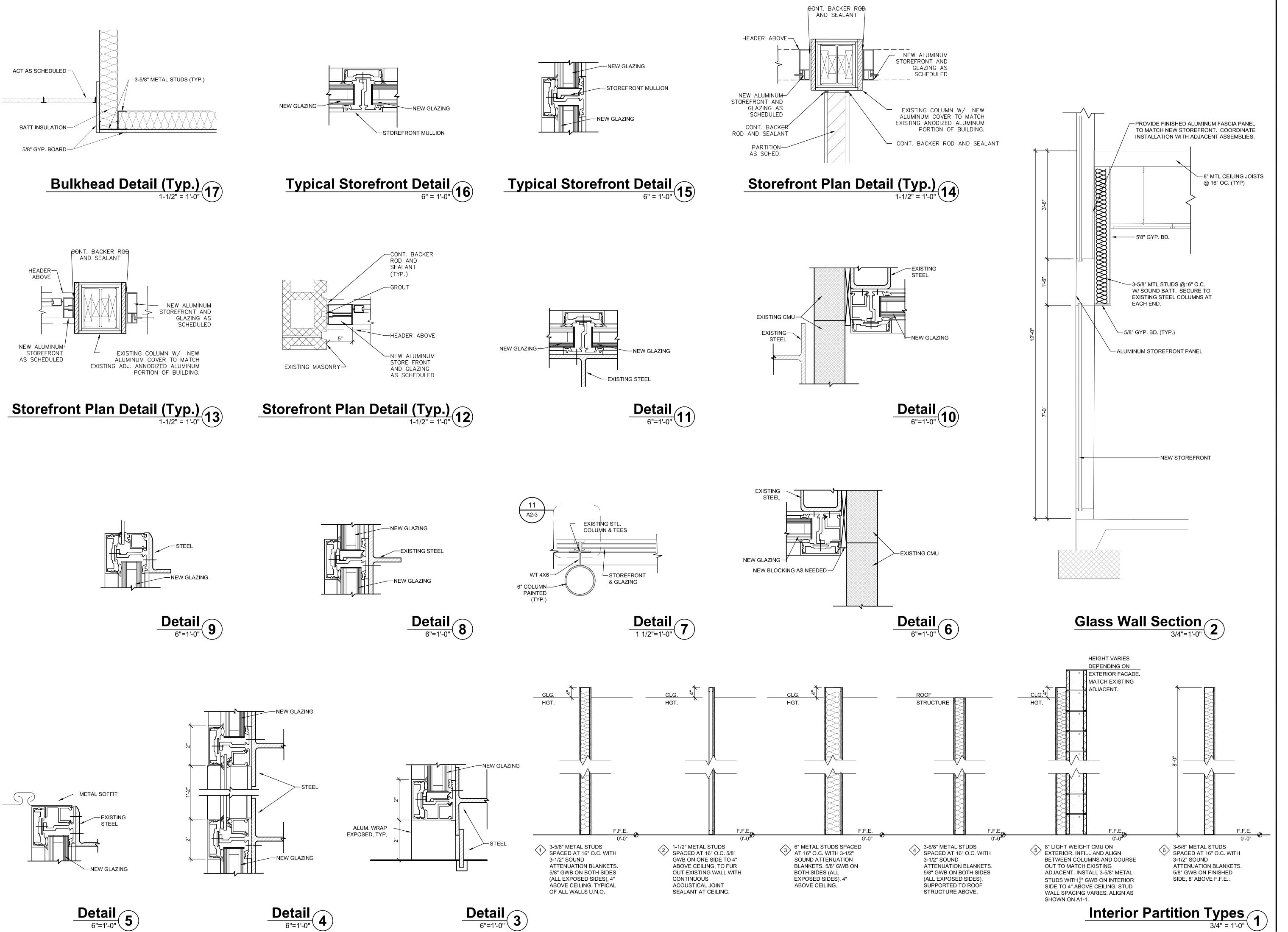
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SHEET NAME:
Exterior Building Elevations & Interior Section

Construction Documents

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **AMI/JMS/TN**

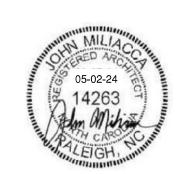
> SHEET NUMBER **A2-2**



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DESCRIPTION: DATE

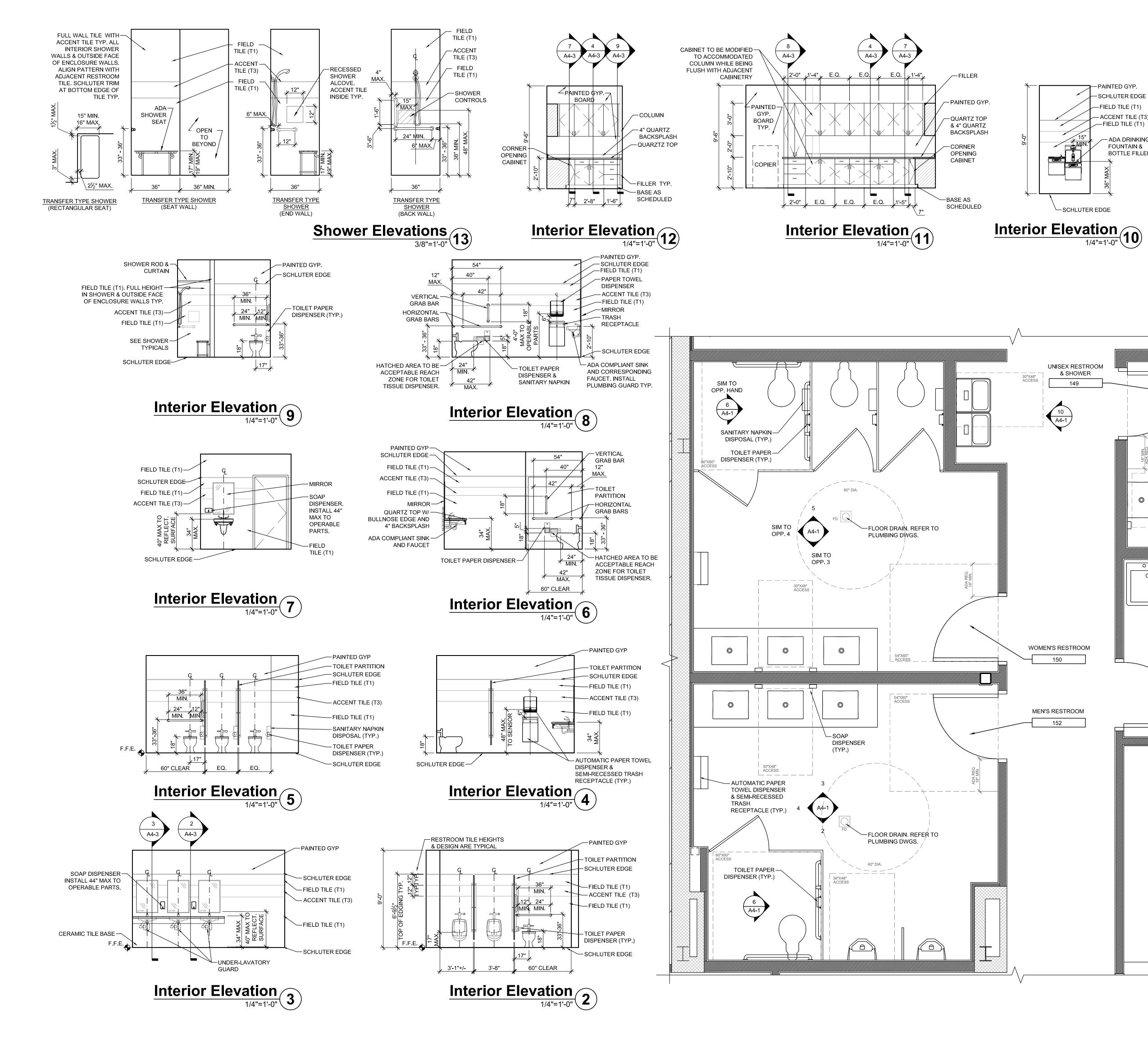
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Wall Sections & Details

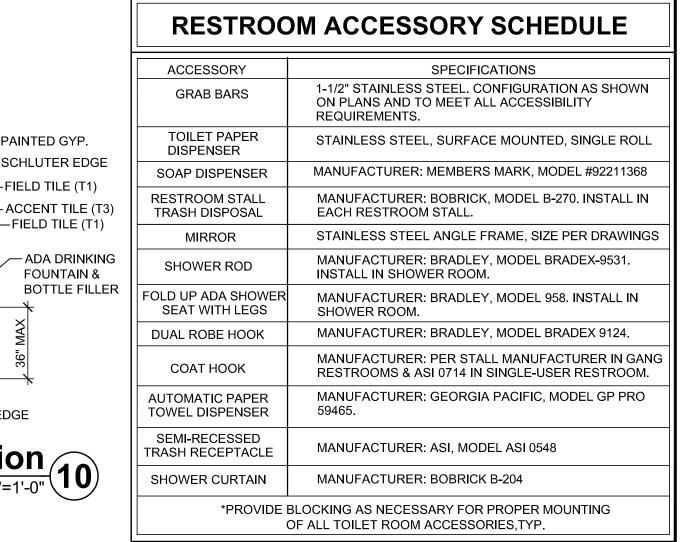
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PROJECT #: 18056C
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SHEET NUMBER

A2-3





LINEAR SHOWER DRAIN-

WITH GRATE. REFER TO

PLUMBING DWGS.

A4-1

STORAGE

146B

*SEE SPECIFICATIONS FOR RESTROOM ACCESSORIES

FLOOR DRAIN. REFER TO-

JANITORS CLOSET

151

CONFERENCE ROOM

153

Enlarged Restroom Floor Plan
1/2"=1'-0"

PLUMBING DWGS.



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NC Globs

NC Globs

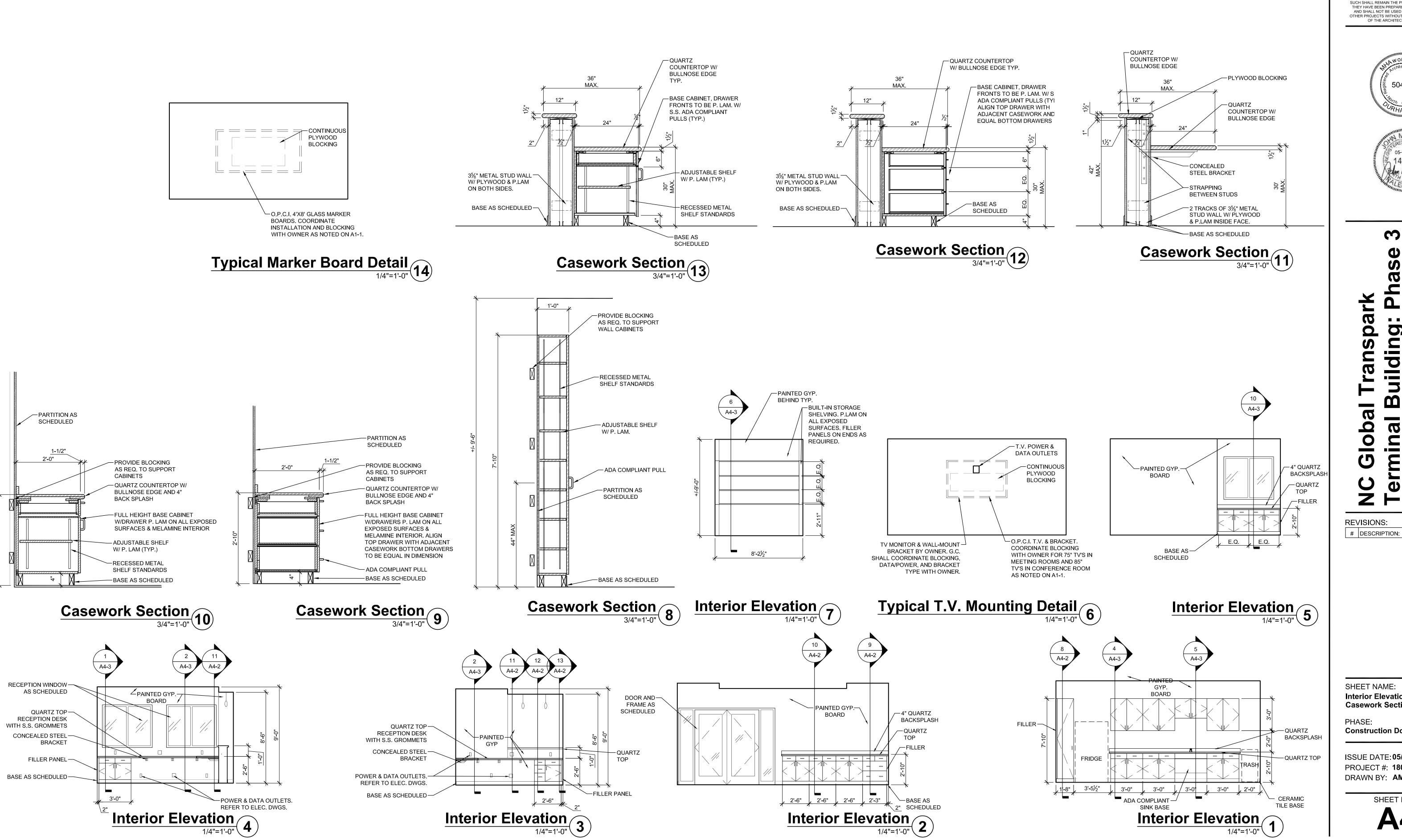
SKO Jetport

Kinston, Nor

SHEET NAME:
Interior Elevations &
Enlarged Restroom Plan

PHASE: Construction Documents

ISSUE DATE: 05/02/2024
PROJECT #: 18056C
DRAWN BY: AMI/JMS/TN

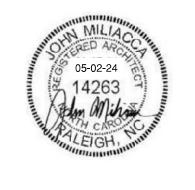




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3 Spal ing 7 Global North erminal

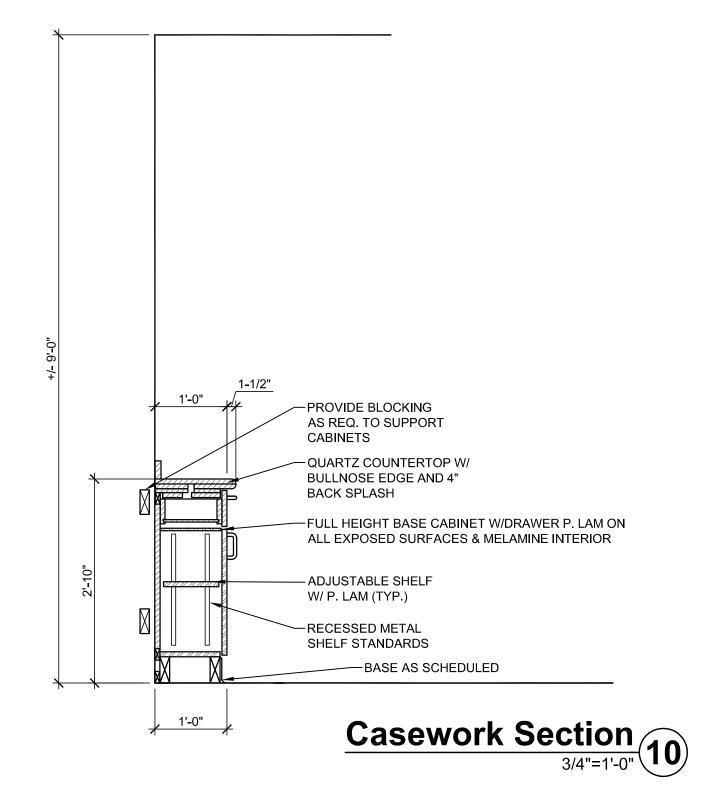
2860 Jetk Kinston, **REVISIONS:**

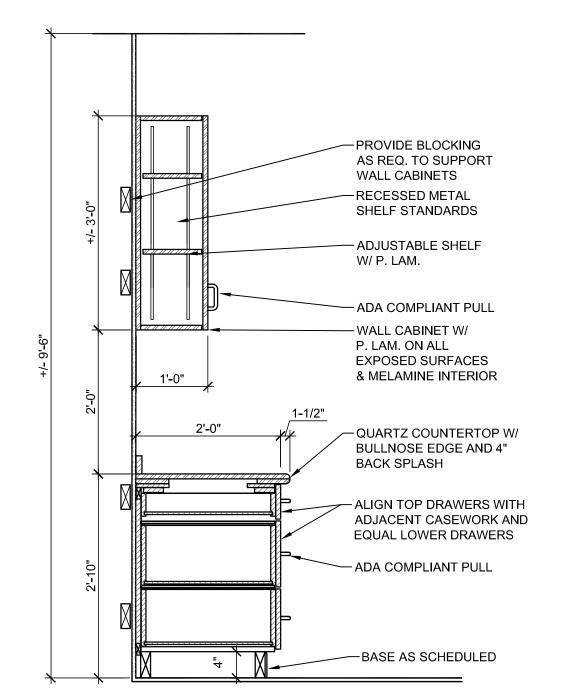
DATE

SHEET NAME: Interior Elevations & **Casework Sections**

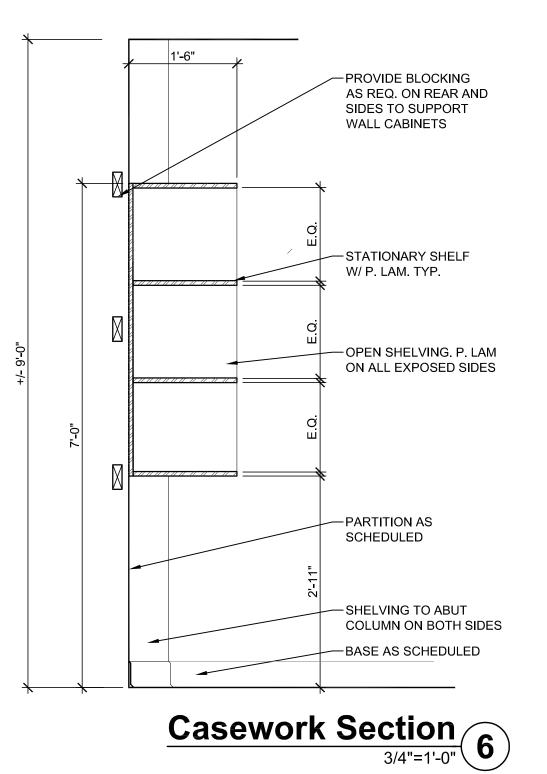
Construction Documents

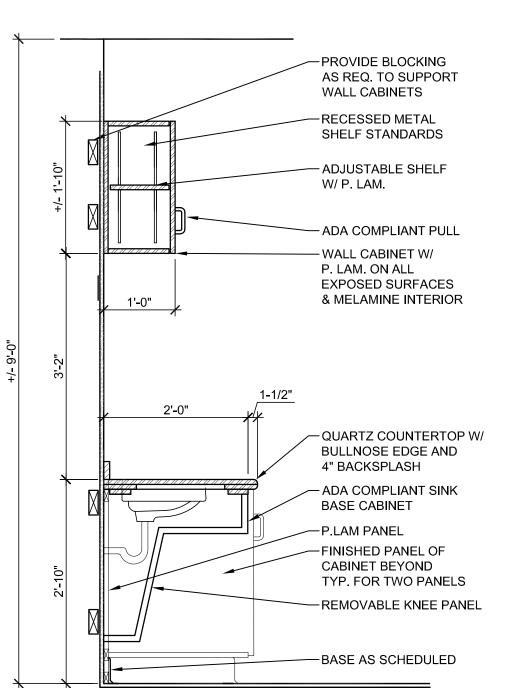
ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **AMI/JMS/TN**

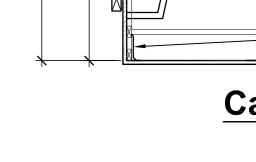


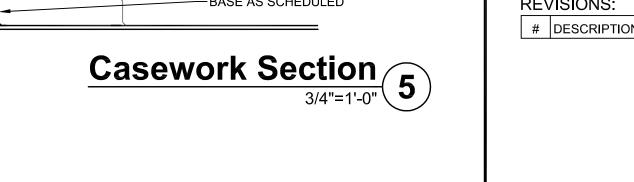


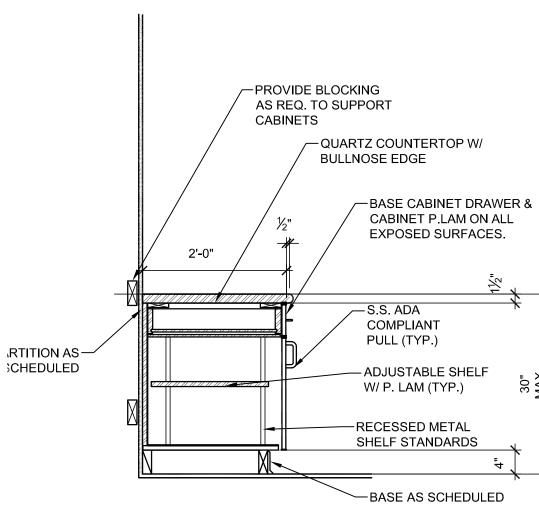
Casework Section 3/4"=1'-0" 9

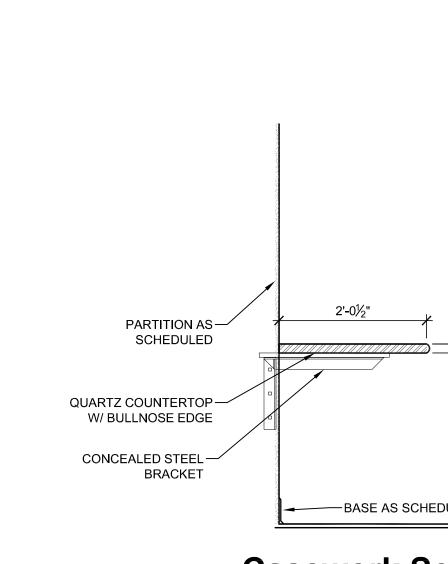


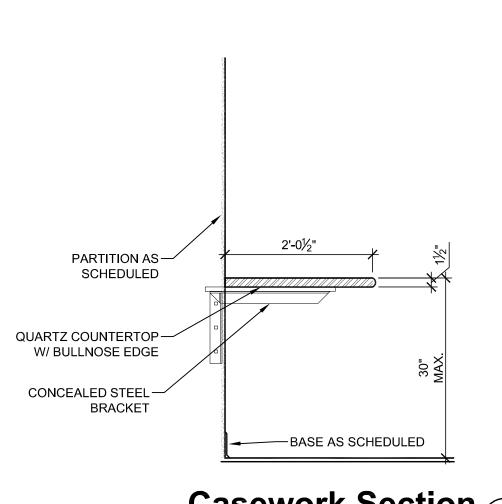


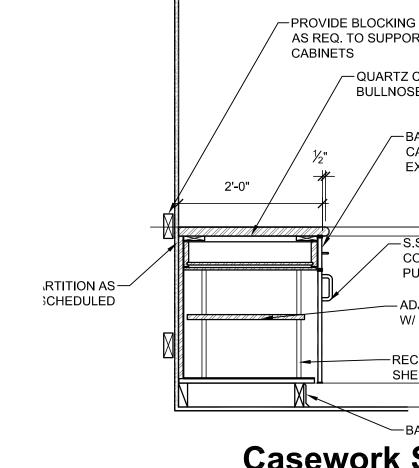








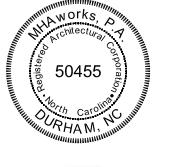


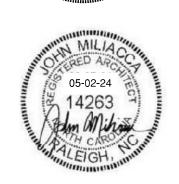


Casework Section
3/4"=1'-0"

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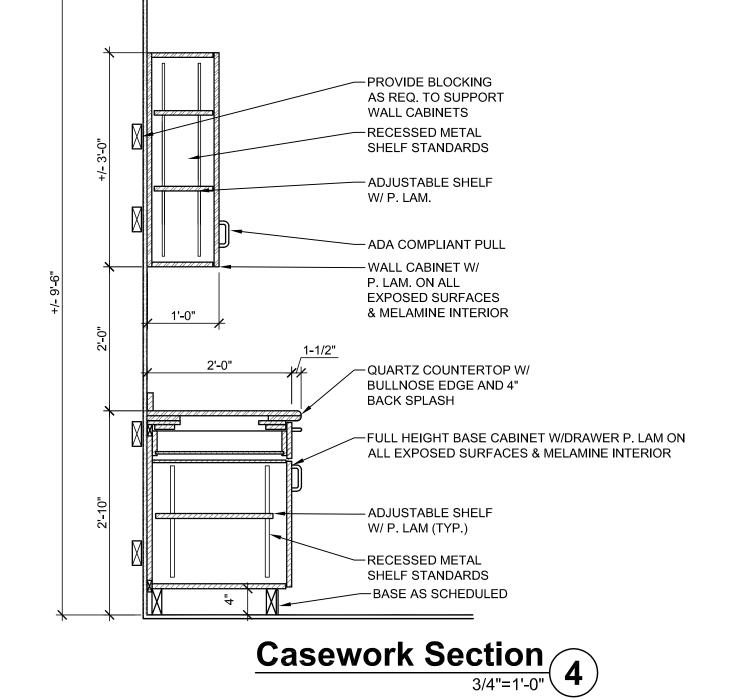
3

REVISIONS: DATE # DESCRIPTION:

SHEET NAME: **Casework Sections**

PHASE: **Construction Documents**

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **AMI/JMS/TN**



Casework Section
3/4"=1'-0"
8

-PROVIDE BLOCKING

-WALL CABINET W/ P. LAM. ON ALL EXPOSED SURFACES & MELAMINE INTERIOR

-RECESSED METAL SHELF STANDARDS

- ADJUSTABLE SHELF

-INSTALL CONTINUOUS HINGE

W/ P. LAMINATE

— ADA COMPLIANT PULL

EXPOSED SURFACES.

BULLNOSE EDGE

-BASE HEIGHT COUNTER WITH

DRAWERS TYP. P. LAM ON ALL

- QUARTZ COUNTERTOP W/

ALIGN TOP DRAWERS WITH

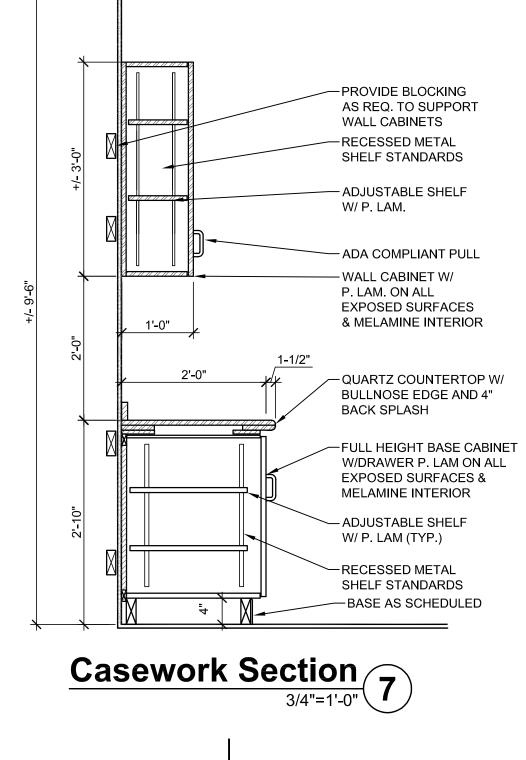
ADJACENT CASEWORK AND

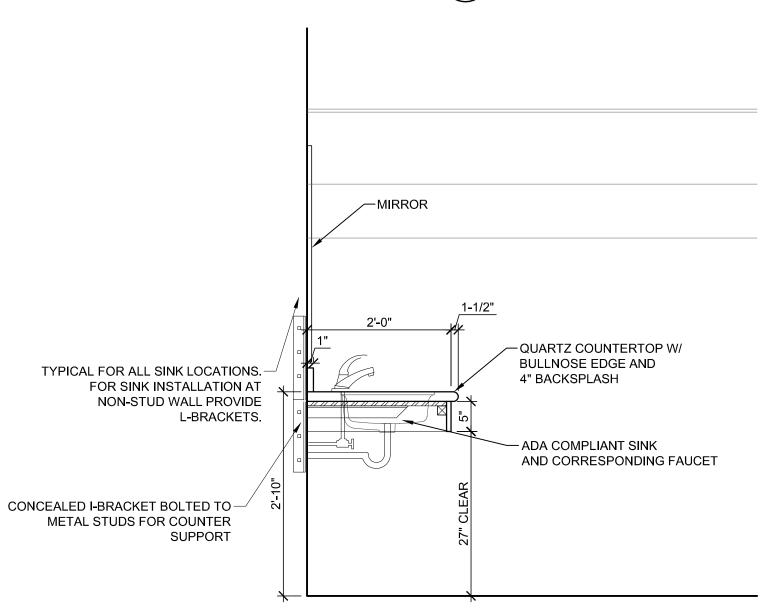
EQUAL LOWER DRAWERS

- ADA COMPLIANT PULL

—BASE AS SCHEDULED

AS REQ. TO SUPPORT WALL CABINETS

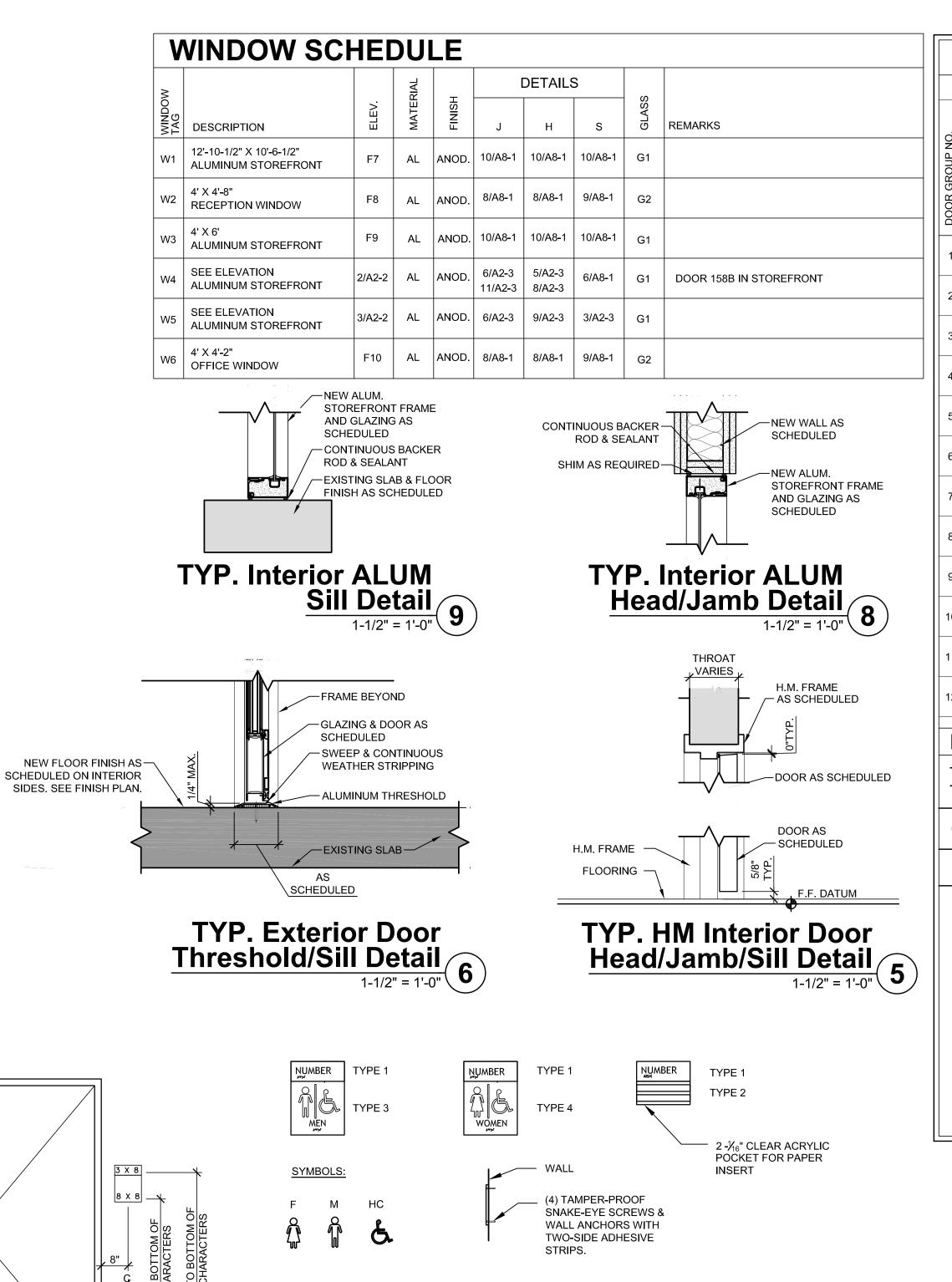




Casework Section
3/4"=1'-0"

3

Casework Section 3/4"=1'-0" 2



NOTE: SEE SHEET T1-1 FOR PROJECT **DOOR & FRAME SCHEDULE LEGEND & ABBREVIATIONS** DOOR FRAME *GC RESPONSIBLE FOR FIELD VERIFICATION OF ALL OPENINGS PRIOR TO FABRICATION AND INSTALLATION. DETAILS **OPENING** SIZE (W X H) REMARKS (SEE SPECIFICATIONS) A | 1.75" | SWC | CLR | F2 | HM | PT | 5/A8-1 1 3'-0" X 7'-0" 5/A8-1 PT 5/A8-1 5/A8-1 2 | 3'-0" X 7'-0" C | 1.75" SWC | CLR | F2 | HM HM PT 5/A8-1 5/A8-1 3 3'-0" X 7'-0" HM | PT | 5/A8-1 5/A8-1 4 3'-0" X 7'-0" B | 1.75" | SWC | CLR | F2 | | HM | PT | 5/A8-1 5 3'-0" X 7'-0" B | 1.75" | SWC | CLR | F1 5/A8-1 HM PT 5/A8-1 6 3'-0" X 7'-0" A 1.75" SWC | CLR | F1 5/A8-1 *PROVIDE 2" UNDERCUT AT I.T. & MECHANICAL ROOM. CC | 1.75" | SWC | CLR | F3 | HM | PT | 5/A8-1 5/A8-1 SEE ELEVATION CC | 1.75" | SWC | CLR | F4 | ALUM | CLR | 8/A8-1 8 SEE ELEVATION 8/A8-1 CC | 1.75" | ALUM | ANOD. | F5 | ALUM | CLR | 10/A8-1 9 SEE ELEVATION 10/A8-1 *INTENT TO MATCH EXISTING DEMOLISHED STOREFRONT. PROVIDE & INSTALL CC | 1.75" | ALUM | ANOD. | F5 | ALUM | CLR | 10/A8-1 10 SEE ELEVATION WEATHER SEALS ON 4 SIDES OF FRAME *INTENT TO MATCH EXISTING DEMOLISHED STOREFRONT. PROVIDE & INSTALL 11 SEE ELEVATION C | 1.75" | ALUM | ANOD. | 2/A2-2 | ALUM | CLR | 10/A8-1 WEATHER SEALS ON 4 SIDES OF FRAME. *INTENT TO MATCH EXISTING DEMOLISHED STOREFRONT. PROVIDE & INSTALL C | 1.75" | ALUM | ANOD. | F6 | ALUM | CLR | 10/A8-1 10/A8-1 12 SEE ELEVATION WEATHER SEALS ON 4 SIDES OF FRAME

HARDWARE

- OWNER TO APPROVE ALL HARDWARE & KEYING

- SEE SPECIFICATION MANUAL FOR ALL DOOR HARDWARE INFORMATION.

GLAZING TYPES

GD CLEAR TEMPERED 1" GLASS

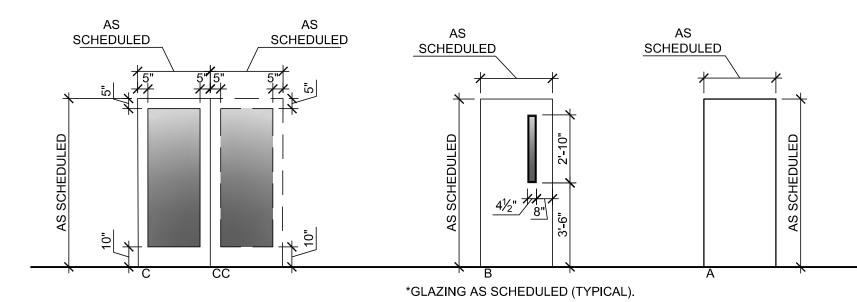
G2 CLEAR TEMPERED ½" GLASS

DOOR & HARDWARE NOTES *INTENT IS TO MATCH PREVIOUS PHASE 1 RENOVATION HARDWARE TYP.

F4

- ALL LOCKS SHALL BE MANUFACTURED BY ILCO LOCKS -SL RESTRICTED KEYWAY LOCKS INSTALLED BY MEDCO KEYING PER BOSCH STANDARDS. EXTERIOR DOORS, FIRST FLOOR STAIRS DOORS, AND DOUBLE DOORS LEADING INTO UNOCCUPIED SPACE TO HAVE KEY CARD ACCESS INSTALLED AT RIGHT HAND DOOR. KEY CARD ACCESS TO BE INSTALLED BY DIVERSIFIED SYSTEMS.
- 2. HARDWARE SHALL COMPLY WITH ALL ACCESSIBILITY REQUIREMENTS.
- 3. HARDWARE SETS SHALL BE MODIFIED AS NECESSARY TO ACCOMMODATE PAIRS OF DOORS.
- 4. PROVIDE THRESHOLDS AND WEATHER-STRIPPING FOR ALL EXTERIOR OPENINGS.
- 5. 1-1/2 PAIR 4.5" HEAVY DUTY HINGES AT EACH INTERIOR DOOR U.N.O.
- 6. DOOR STOPS TO BE PROVIDED AS DIRECTED BY OWNER HAFELE SF102 937.94.037

7. DOOR HOLDERS TO BE PROVIDED AS DIRECTED BY OWNER - HAFELE SF320 938.43.007

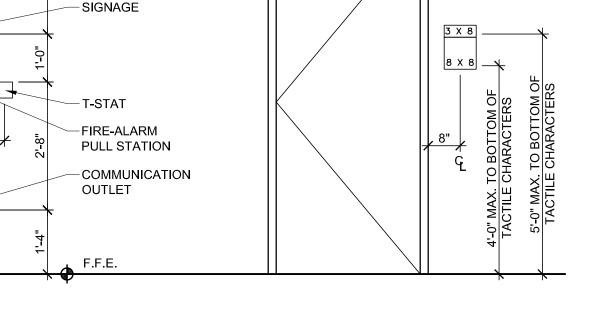


F3

 $\langle F2 \rangle$

(F-1)

Frame Types 1



F8

F9

- NEW WALLS AND

FRAMING AS

SCHEDULED

SHIM AS

EXISTING MASONRY WALL.

EXISTING ADJACENT DOORS.

SET FRAME TO MATCH

TYP. Exterior ALUM Storefront Jamb/Head Detail 1-1/2" = 1'-0"

REQUIRED

GLAZING & DOORS

AS SCHEDULED

NEW WALLS AND

FRAMING AS

SCHEDULED

REQUIRED

SEALANT

- DOOR -SEE

SCHED.

EXISTING ADJACENT DOORS.

FIRE-ALARM

ANNUNCIATOR

EXISTING MASONRY WALL

SET FRAME TO MATCH

TYP. Exterior HM

Door Jamb/Head Detail

F10

LIGHT-

SWITCH

ELECTRICAL -OUTLET H.M. FRAME SET IN CONT. BED OF

PROVIDE 1 SIGN PER DOOR OPENING THROUGHOUT THE BUILDING. IF SIGN LOCATION IS ON GLASS, PROVIDE BLANK PANEL ON OPPOSITE SIDE OF GLASS TO CONCEAL ATTACHMENTS.

ALL SIGN COPY SHALL MATCH ROOM NAME AS SHOWN ON THE FLOOR PLANS. G.C. RESPONSIBLE FOR SIGN SCHEDULE SUBMITTAL. ALL SIGN COPY SHALL BE REVIEWED AND APPROVED BY THE OWNER AND ARCHITECT PRIOR TO FABRICATION.

ALL RESTROOMS SHALL USE SIGN TYPES 3 OR 4 AS APPROPRIATE, IN ADDITION TO TYPE 1 AS INDICATED IN THE ILLUSTRATION ABOVE. ALL OTHER ROOMS SHALL USE

SIGN TYPE 1 & 2.

F7

Typical Mounting Heights

1/2" = 11-0"

Sign Types
1/4" = 11-0"

Sign Types
1/4" = 11-0"

Sign Types
1/4" = 10-0"

1/4" = 10-0"

Sign Types
1/4" = 10-0"

Sign Types
1/4" = 10-0"

Sign Types
1/4" = 10-0"

1/4" = 10-0"

Sign Types
1/4" =

F5

*GLAZING AS SCHEDULED (TYPICAL).

F6

SHEET NAME:

Door & Window Schedule, Frame Types, & Details

Together, we create.

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AND SHALL NOT BE USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION

OF THE ARCHITECT. ©-MHAworks 2024

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REVISIONS:

DESCRIPTION:

erminal

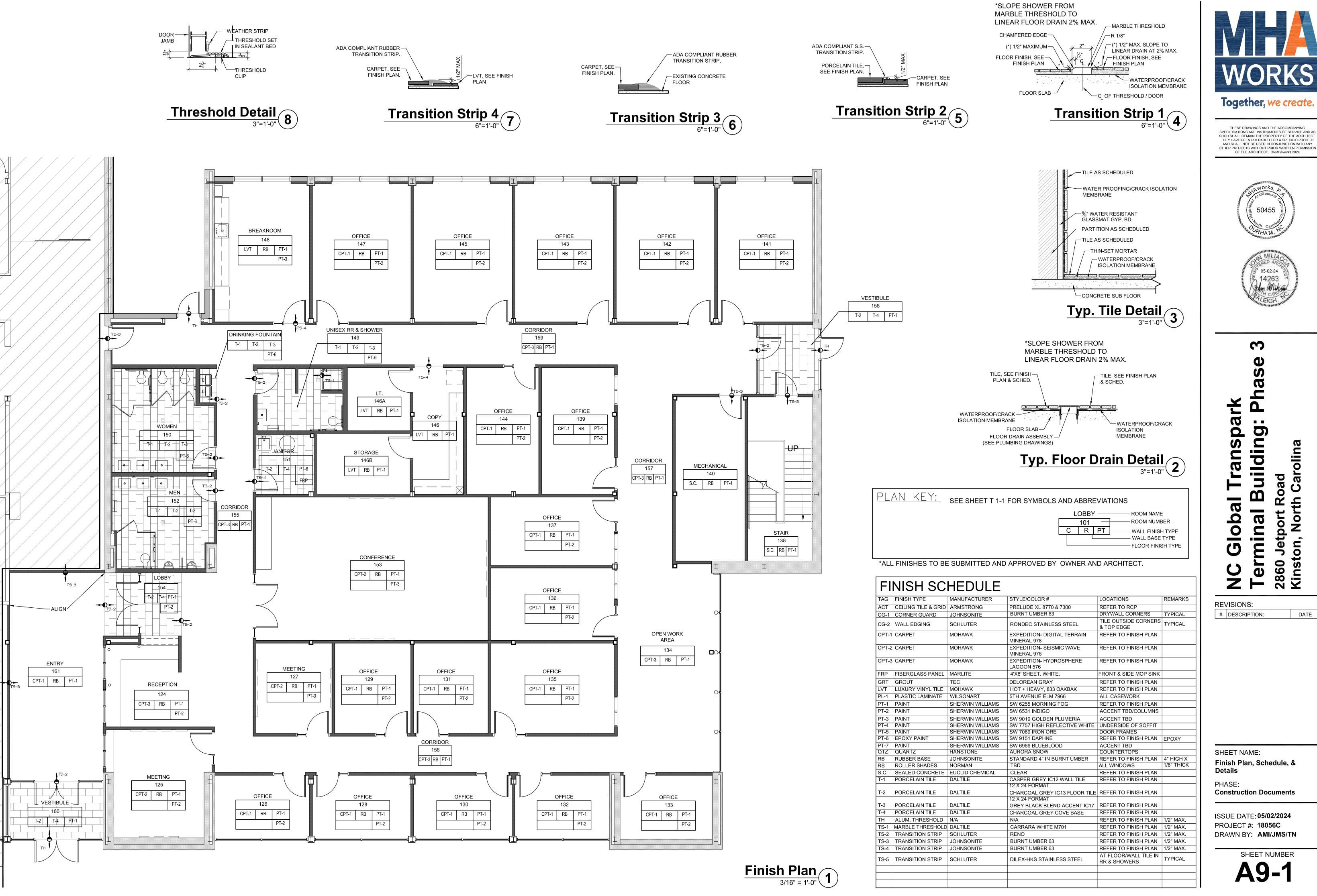
2860 Jety Kinston,

DATE

SUCH SHALL REMAIN THE PROPERTY OF THE ARCHITEC

Construction Documents

ISSUE DATE: 05/02/2024
PROJECT #: 18056C
DRAWN BY: AMI/JMS/TN





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OF THE ARCHITECT. ©-MHAworks 2024





3 pa 0 0

Glob

RE\	/ISIONS:	
#	DESCRIPTION:	DATE

SHEET NAME: Finish Plan, Schedule, & **Details**

Construction Documents

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: AMI/JMS/TN

> SHEET NUMBER A9-1

	COLUMN SCHEDULE				
	COL. SIZE	BASE P SIZE	ANCH. BOLT DIA.	REMARKS	
C1	HSS 6 x 6 x 1/4	³ / ₄ " × 12" × 1'-0"	3⁄4"	4 BOLTS	
	_	_	_	_	

	FOOTING SCHEDULE				
MARK	FTG. SIZE	REINFORCEMENT	REMARKS		
F3.0	3'-0" x 3'-0" x 1'-0"	4 - #5 EACH WAY, BOTT	-		
F4.0	4'-0" x 4'-0" x 1'-0"	5 - #5 EACH WAY, BOTT	_		
F5.0	5'-0" x 5'-0" x 1'-0"	6 — #5 EACH WAY, BOTT			
F4.2	4'-0" x 2'-0" x 1'-0"	5 - #5 SHORT WAY, BOTT 3 - #5 LONG WAY, BOTT			
_	_	_	_		

- 1. S.W.=> SHORT WAY (SHORT BAR)
 2. L.W.=> LONG WAY (LONG BAR)
 3. E.W.=> EACH WAY

FOUNDATION PLAN NOTES:

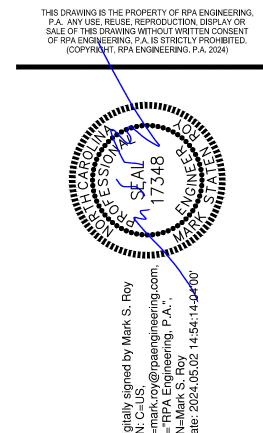
- SEE SHEET S3.1 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES & SCHEDULES.
 ALL DIMENSIONS SHOWN ARE '±' AND ARE SUBJECT TO FIELD VERIFICATION PRIOR TO ACCEPTANCE AS VALID.
 TOP OF SLAB REFERENCE ELEVATION = 0'-0" UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SITE ELEVATIONS.
 FOR FOOTING, BASE PLATE AND ANCHOR BOLT DETAIL, SEE SHEET \$2.1
- NEW CMU INFILL SHALL BEAR ON EXISTING 4" CONCRETE
- SEE SHEET S2.1. SLAB. USE LIGHTWEIGHT BLOCK.

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3 anspark ilding: oad Car Global

REVISIONS: # DESCRIPTION: DATE:

SHEET NAME:
Partial Foundation Plan

Construction Documents

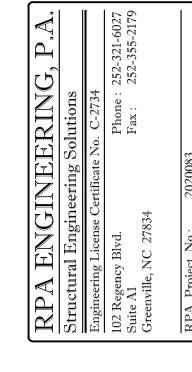
ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: MKE

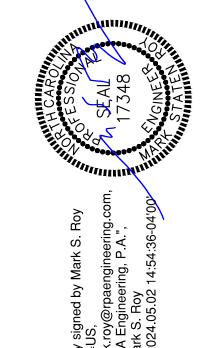
		NEW CMU WALL BELOW NEW WINDOWS, SEE ARCH. FOR MORE INFO. SEE NOTE 5.	ARCH. FOR M	1	NEW CMU WALL, —SEE ARCH. FOR MORE INFO. SEE NOTE 5.
	NEW CMU WALL, SEE ARCH. FOR MORE INFO. SEE NOTE 5.	EXISTING FOOTING	15.4 (6.2)	17.6	18.3
					H
EXISTING COLUMN		<u>-4"</u> 14'-0"	7'-2" 6'-10" 3'-7" 10'-5"		1" 9'-9¾"
			EXISTING FOOTING		G
EXISTING WALK FOOTING					
		——————————————————————————————————————	-	F = 1 F 3.0	F4.0 D.8
	D.6 — — — — — — — — — — — — — — — — — — —	F4.0 "5"	F4.0 F3.0 F3.0	F4.0	2'- 13'-3" VERIFY (TY
	F4.0	EXISTING FOOTING		F3.0 F3.0	D
					<u> </u>
F4.0		NEW HSS6x6x1/4 COLUMN, 'C1' TYP.	F5.0	F4.0 F4.2	10,-6"
	TYP.	3 3 52.1		8 S2.1 1'-0"	B.7 AERIFY B.45%
			EXISTING SLAB ON GRADE, TYP.		EXISTING WALL FOOTING
					B
					, "0-'8 D
		# # # # #			A)
	L_ _		EXISTING FOOTING		
14'-0" 14'-0" 14'-0" VERIFY (TYP.) 14'-0" 14'-0" VERIFY (TYP.)	14'-0"	VERIFY (TYP.)	14'-0"	14'-0"	14'-0" VERIFY (TYP.)
(8) (9) (10) (11) (12)	(13)	(14) (15) PARTIAL FOUNDATION		(17) (18)	(19)
(8) (9) (10) (11) (12)	13)	PARTIAL FOUNDATION 1/8" = 1'-0"		(17) (18)	(19)

FLOOR FRAMING PLAN NOTES:

- 1. SEE SHEET S3.1 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES
- AND SCHEDULES. 2. ALL DIMENSIONS SHOWN '±' AND ARE SUBJECT TO FIELD VERIFICATION PRIOR TO ACCEPTANCE AS VALID.
- 3. COORDINATE FLOOR OPENINGS WITH MECHANICAL AND PLUMBING
- 4. SEE SHEET S2.1 FOR FRAMING DETAILS.
- 5. TOP OF STEEL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR REFERENCE ELEVATION 0'-0". SEE ARCHITECTURAL DRAWINGS FOR ACTUAL FINISHED FLOOR ELEVATION.
- MEZZANINE FLOOR DESIGNED FOR 100 psf LIVE LOAD (OFFICE LOADING). 7. FLOOR JOISTS ARE 8", 16GA @ 16" O.C., U.N.O.
- 8. OPTIONAL HSS6x6x1/4 BEAM FOR CURTAINWALL SUPPORT IF NEEDED. SEE ARCHITECTURAL/MANUFACTURER DRAWINGS FOR MORE INFORMATION AND LOCATION.

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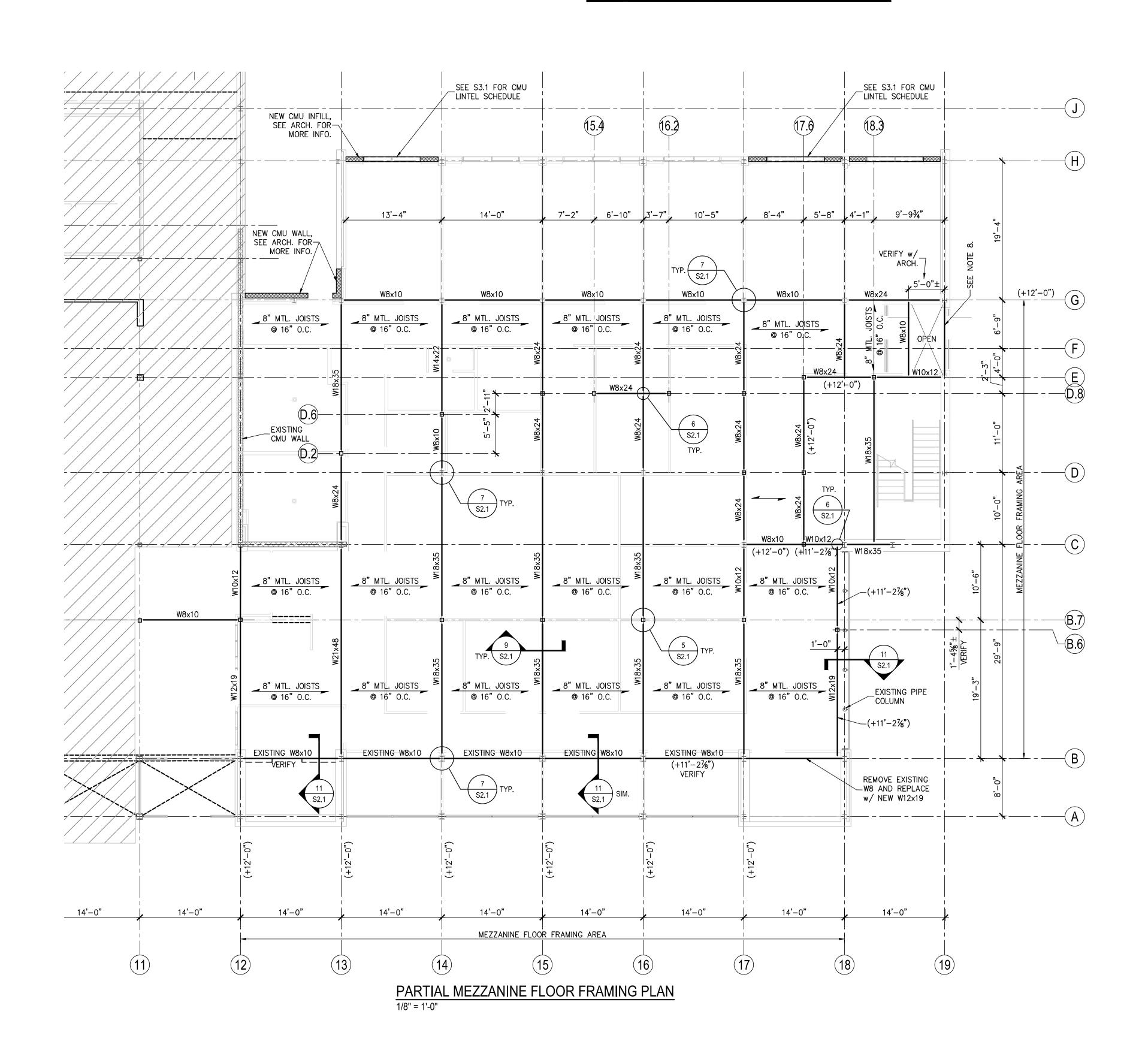
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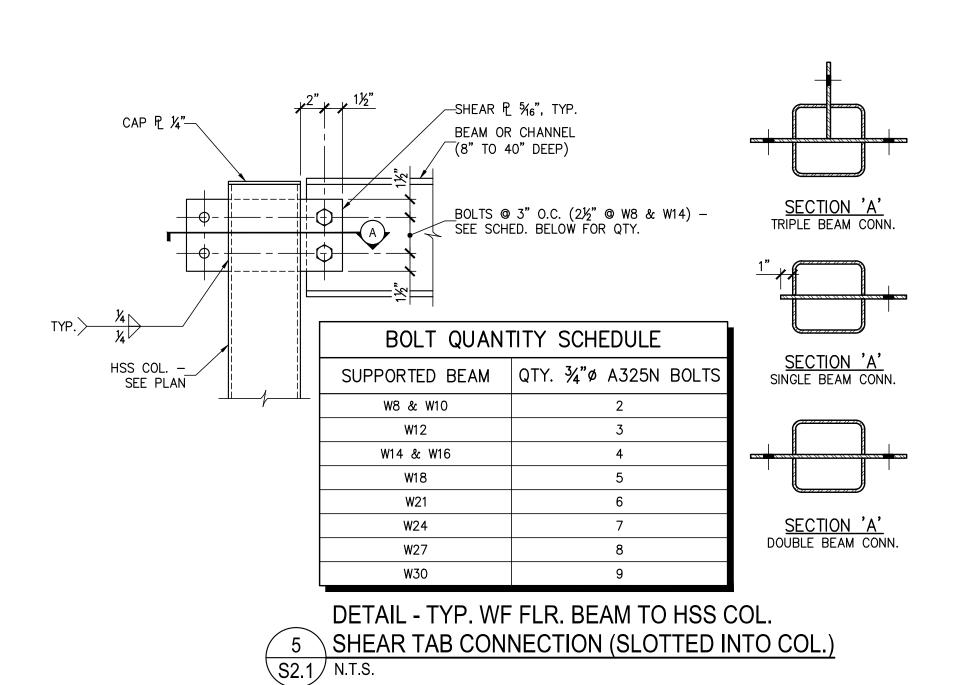
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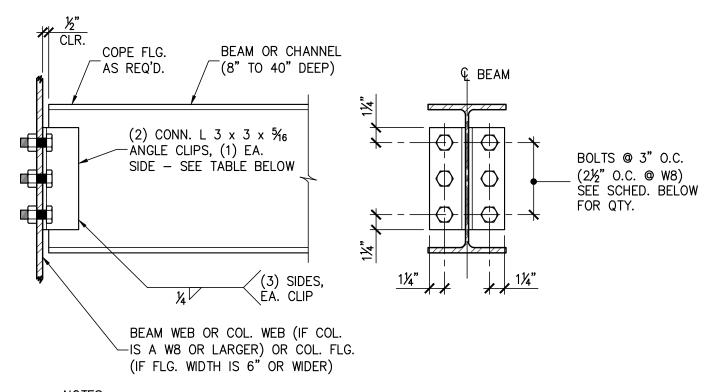
SHEET NAME: Partial Mezzanine Framing

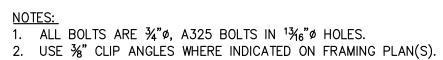
Construction Documents

ISSUE DATE: **05/02/2024** PROJECT #: **18056C** DRAWN BY: **MKE**









BEAM DEPTH NOMINAL	No. OF BOLTS EACH SIDE	FRAMING ANGLE LENGTH 'L'
8"	2	5"
10"	2	5½"
12"	3	8½"
14"	3	8½"
16"	4	11½"
18"	4	11½"
21"	5	14½"
24"	6	17½"
27"	6	17½"
30"	7	20½"

¾" F.R.T. PLYWOOD

(VERIFY)

-HEAVY-HEX NUT

THICKENED SLAB

OR FOUNDATION AS REQ'D.

REMARKS

FLOOR SHEATHING

SIMPSON "S/JCT"

HANGER (TYP.)

\$2.1 N.T.S.

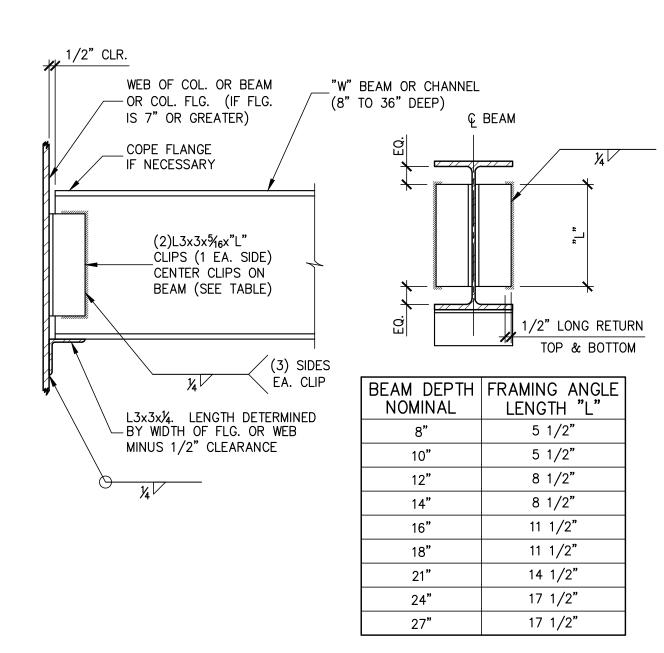


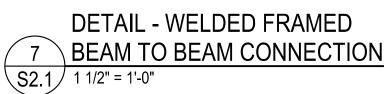
8", 16GA METAL

STEEL BEAM, SEE PLAN

9 MEZZANINE FRAMING

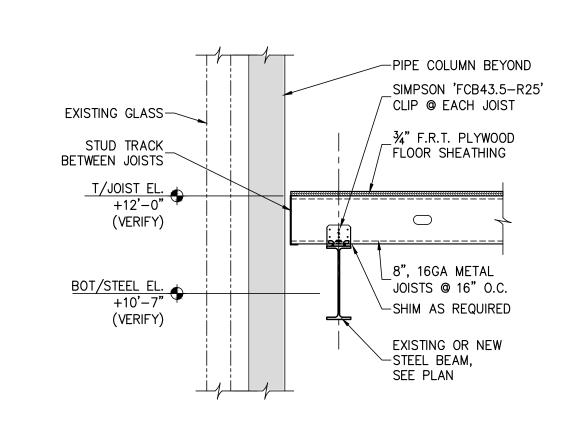
__JOISTS @ 16" O.C.





10 MEZZANINE FLOOR

S2.1 3/4" = 1'-0"



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Phase

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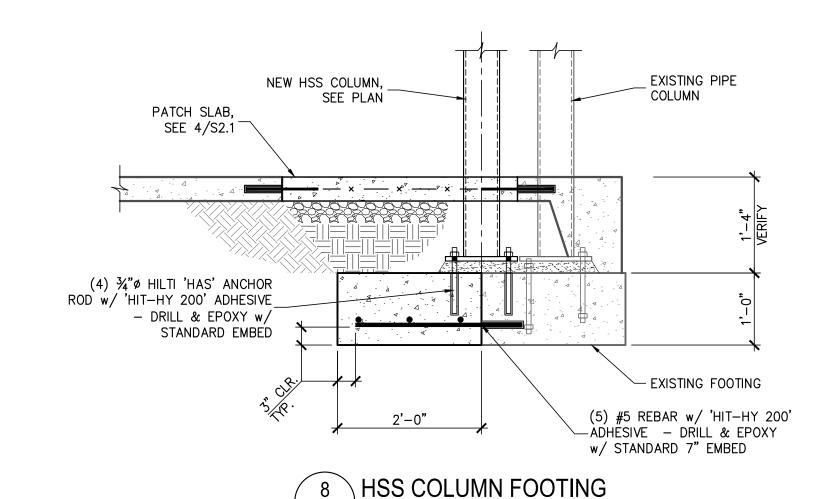
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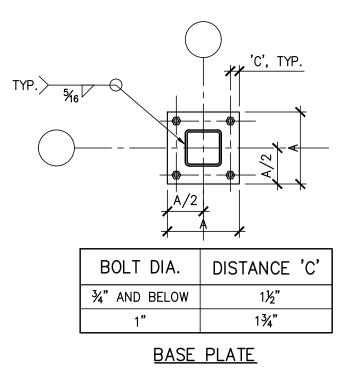
Glob

REVISIONS:

DESCRIPTION:

MEZZANINE FRAMING S2.1 3/4" = 1'-0"





TOP OF BASE P_

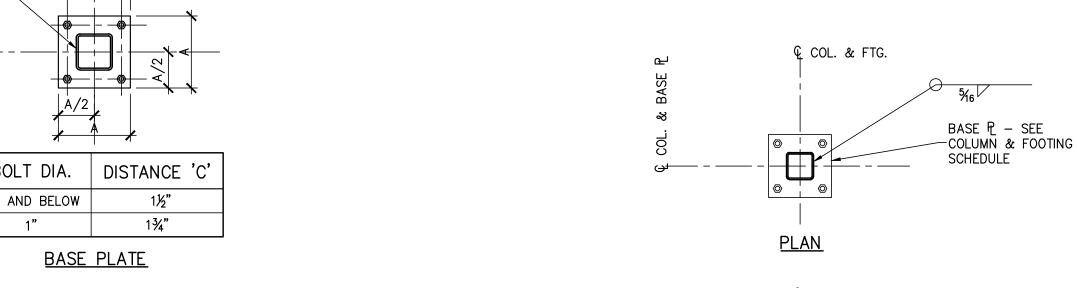
NON-SHRINK GROUT BED

TOP OF CONCRETE

BOLT DIA. 'D'

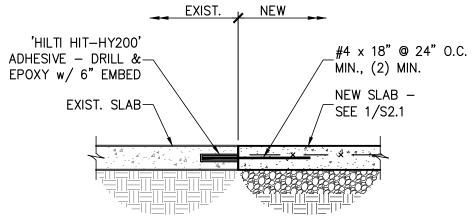
EQUALS BOLT DIA.

,6" TYP.

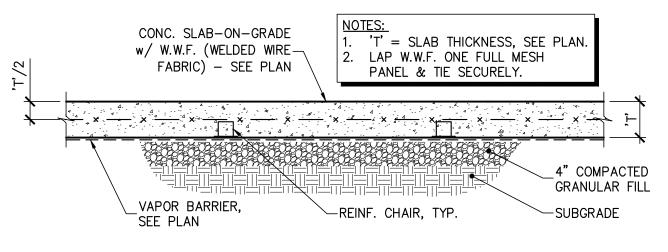


S2.1 3/4" = 1'-0"

€ COL. & FTG.
COLUMN BASE PL HSS COLUMN,
2" NON-SHRINK GROUT
NEW SLAB ON GRADE,
SEE 1/S2.1EXISTING SLAB
X X X X X X X X X X X X X X X X X X X
T/FTG. EL. A307 ANCH. BOLTS w/ HEAVY SEE PLAN HEX NUT & WASHER - TACK
WELD NUT & WASHER,
SEE 2/S2.1
REINFORCING, SEE SOL X W (SEE SCHED.) REINFORCING SCHEDULE
NOTE: SEE FOOTING SCHEDULE ON S1.1 FOR MORE DETAILS.



NEW TO EXISTING SLAB CONNECTION S2.1 3/4" = 1'-0"



S2.1 3/4" = 1'-0"

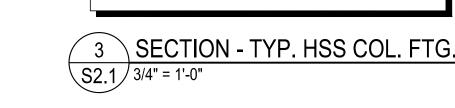
 \setminus SECTION - TYP. SLAB ON GRADE S2.1 3/4" = 1'-0"

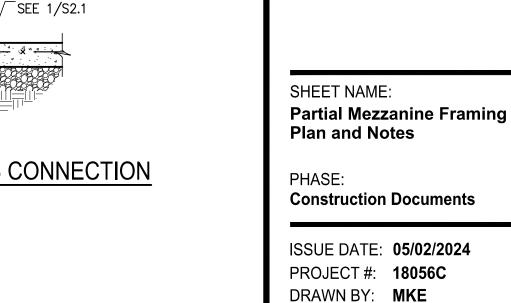


EMBEDMENT

0'-9"

1'-0"





GENERAL STRUCTURAL NOTES:

- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE
- 1.2. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS NOT HEREIN INDICATED.
- COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS. 1.4. VERIFY ALL FLOOR AND ROOF OPENING SIZES AND LOCATIONS, EQUIPMENT PAD SIZES AND LOCATIONS, ANCHOR BOLT
- LAYOUTS, ETC., WITH EQUIPMENT SELECTED. VERIFY BUILDING LOCATION AND ORIENTATION WITH OWNER AND LOT SETBACK REQUIREMENTS BEFORE ANY
- CONSTRUCTION IS STARTED ON THE PROJECT CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION DIMENSIONS WHICH IMPACT NEW CONSTRUCTION PRIOR TO
- FABRICATING ANY REBAR, STEEL, TRUSSES, ETCETERA.
- 1.7. DO NOT CUT, NOTCH, OR OTHERWISE MODIFY ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER OF RECORD. CUTTING OF STEEL MEMBERS AND INSTALLATION OF HOLES IN STEEL MEMBERS SHALL BE DONE BY CUTTING OR
- DRILLING. DO NOT USE TORCHES FOR CUTTING UNLESS APPROVED BY THE ENGINEER OF RECORD. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL SHORING REQUIRED TO SUPPORT NEW AND
- EXISTING STRUCTURAL ELEMENTS.

1.10. MEZZANINE IS DESIGNED FOR A UNIFORM LIVE LOAD OF 100 psf (OFFICE LOADING).

- ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR 98% COMPACTED FILL PER ASTM D698. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR
- LOOSE MATERIAL EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOMS TEMPORARILY LINED WITH 6 MIL. POLYETHYLENE IF
- PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HRS OF THE EXCAVATION OF THE FOOTING.
- ADVERSE FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION SUCH AS SOFT SOILS, ORGANIC MATTER, ETC., SHALL BE REPORTED TO THE ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
- IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH LEAN CONCRETE MIX. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.
- 2.6. FOUNDATION DESIGN IS BASED ON A MAXIMUM ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF.

3. CONCRETE

- ALL PLACED CONCRETE, SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS AS SHOWN ON THE CONCRETE MATERIALS SCHEDULE.
- GROUT FOR BASE PLATES SHALL BE NON-METTALIC, NON-SHRINKABLE GROUT, AND SHALL HAVE A MINIMUM SPECIFIED
- COMPRESSIVE STRENGTH, AT 28 DAYS, OF 5000 PSI.
- NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH 3/2" x 45 DEGREE CHAMFER. UNLESS OTHERWISE NOTED. HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS, AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED, WITH A CLASS B TENSION SPLICE, AT CORNERS AND
- INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR. SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING / DAMPPROOFING DETAILS.
- ALL DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS OTHERWISE NOTED ON THE DRAWINGS. 3.8. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF FLOOR FINISHES.
- 3.9. SEE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR ADDITIONAL WALL / SLAB OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 3.10. ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
- 3.11. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. 3.12. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
- 3.13. IN-PLACE REINFORCING STEEL, SHALL BE REVIEWED BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
- 3.14. AT CORNERS AND INTERSECTIONS, PROVIDE BARS OF THE SAME NUMBER AND SIZE AS THE LONGITUDINAL BARS IN THE
- 3.15. CONCRETE MATERIALS SHALL BE AS FOLLOWS:
 - USE TYPE I/II PORTLAND CEMENT CONFORMING TO ASTM C150 AGGREGATE SHALL CONFORM TO ASTM C33 (FINE AND COURSE AGGREGATES)
 - AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260 PLASTICIZER CAN BE USED TO IMPROVE WORKABILITY IF REQUIRED
- MAXIMUM WATER/CEMENT RATIO 0.50 FOR SLAB, 0.55 FOR FOOTINGS AND OTHER CONCRETE UNLESS OTHERWISE NOTED.
 - SLUMP: 4 INCHES TO 6 INCHES (WITHOUT PLASTICIZER)
 - AIR ENTRAINMENT: 4% TO 6% (EXTERIOR CONCRETE)
- 4.17. CONCRETE SLAB SHALL BE CURED USING A WATER-BASED CURING COMPOUND. CURING COMPOUND SHALL BE APPLIED TO ALL HORIZONTAL SURFACES. ONCE THE SURFACE WATER DISSIPATES AND THE SURFACE IS NOT MARRED BY
- WALKING, APPLY PER MANUFACTURER'S SPECIFICATIONS. 4.18. CONDUCT SLUMP, AIR, AND STRENGTH TESTS OF CONCRETE IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:
- 4.19. SECURE SAMPLES IN ACCORDANCE WITH "METHOD OF SAMPLING FRESH CONCRETE" (ASTM C 172). MOLD AND CURE FIVE SPECIMENS FROM EACH SAMPLE IN ACCORDANCE WITH "METHOD OF MAKING AND CURING CONCRETE COMPRESSION AND FLEXURE SPECIMENS IN THE FIELD" (ASTM C 31). FIVE SPECIMENS COMPRISE ONE TEST. TEST TWO SPECIMENS AT 7 DAYS (ASTM C 39). TEST TWO SPECIMENS AT 28 DAYS IN ACCORDANCE WITH "METHOD OF TEST FOR COMPRESSIVE STRENGTH OF MOLDED CONCRETE CYLINDERS" (ASTM C 39). TEST EVALUATION SHALL BE CONDUCTED IN ACCORDANCE
- WITH PROVISIONS OF ACI 318-05. KEEP ONE SPECIMEN IN RESERVE. 4.20. 4.20. MAKE ONE STRENGTH TEST FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF FOR EACH MIX DESIGN OF CONCRETE PLACED IN ONE DAY, EXCEPT THAT IN NO CASE SHALL A GIVEN MIX DESIGN BE REPRESENTED BY LESS THAN

5. STRUCTURAL STEEL

- DETAILING OF STRUCTURAL STEEL CONNECTIONS, MUST BE CONSISTENT WITH RECOGNIZED, PUBLISHED METHODS, SUCH AS THE "AISC STEEL CONSTRUCTION MANUAL, 13TH EDITION", "DETAILING FOR STEEL CONSTRUCTION", OR "VOLUME II
- CONNECTIONS MANUAL OF STEEL CONSTRUCTION". MEMBERS AND CONNECTIONS NOT FULLY DEVELOPED ON THE CONTRACT DRAWINGS, AND CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT SHOWN ON THE CONTRACT DRAWINGS. SHALL BE DESIGNED AND SEALED BY A
- REGISTERED PROFESSIONAL ENGINEER, AND DETAILED ON THE SHOP DRAWINGS. 5.3. ALTERNATIVE CONNECTION DETAILS, MAY BE SUBMITTED ON SHOP DRAWINGS BY THE CONTRACTOR, ONLY IF ACCOMPANIED BY COMPLETE STRUCTURAL CALCULATIONS, PREPARED AND SEALED BY AN ENGINEER, LICENSED IN THE PROJECT'S JURISDICTION. FAILURE TO SUBMIT SUCH CALCULATIONS FOR REVIEW, CONCURRENT WITH SHOP DRAWING
- ERECTION PLANS AND DETAILS, WILL BE CAUSE FOR REJECTION OF THAT SUBMITTAL 5.4. CALCULATIONS FOR DETAILS, MUST SHOW A RATIONAL ANALYSIS OF A COMPLETE LOAD PATH, INCLUDING LOCAL EFFECTS ON WEBS, FLANGES ETC., OF THE CONNECTED MEMBERS AND THE DEVICES (PLATES, SEATS, BRACKETS, BOLTS, WEBS, ETC.) AFFECTING ALL CONNECTIONS.
- 5.5. STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION, SHALL CONFORM TO THE "AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (MARCH 9, 2005), AND THE "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (MARCH 18, 2005).
- 5.6. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE, AWS D1.1. ELECTRODES FOR SHOP AND FIELD WELDS, SHALL BE CLASS E70XX. ALL WELDING SHALL BE DONE BY QUALIFIED, CERTIFIED WELDERS, PER THE ABOVE STANDARD.
- 5.7. ALL FILLET WELDS SHALL BE A MINIMUM OF 1/4 INCH, UNLESS OTHERWISE NOTED.
- THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS, FOR THE WORK OF OTHER TRADES, WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- 5.9. ALL STRUCTURAL STEEL SHAPES USED, SHALL BE IN ACCORDANCE WITH ASTM A992 SPECIFICATIONS (Fy = 50 KSI). ALL STRUCTURAL TUBING USED, SHALL BE IN ACCORDANCE WITH ASTM A500, GRADE B (Fy = 46 KSI). ALL PIPE USED, SHALL BE IN ACCORDANCE WITH ASTM A53 (Fy = 35 KSI). ALL MISCELLANEOUS STEEL USED, SHALL BE IN ACCORDANCE WITH ASTM A36 (Fy = 36 KSI).
- 5.10. ALL FIELD BOLTED CONNECTIONS, SHALL BE BEARING TYPE CONNECTIONS (THREADS INCLUDED IN THE SHEAR PLANE), WITH 34" DIAMETER, ASTM A325 HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED ON THE DRAWING. ALL BOLTS SHALL BE TIGHTENED TO A "SNUG-TIGHT" CONDITION, UNLESS OTHERWISE NOTED.
- 5.11. FOR ALL FLOOR OPENINGS, THE CONTRACTOR SHALL VERIFY OPENING LOCATIONS WITH EQUIPMENT SELECTED, AND MAKE ANY NECESSARY MODIFICATIONS AT NO ADDITIONAL COST. IT IS THE RESPONSIBILITY OF FABRICATOR, TO RECEIVE ALL NECESSARY INFORMATION, PRIOR TO FABRICATION OF ANY STEEL.
- 5.12. ALL STRUCTURAL STEEL WHICH IS TO BE SPRAYED WITH FIREPROOFING SHALL NOT BE PRIMED OR PAINTED. STEEL WHICH IS NOT SPRAYED WITH FIREPROOFING SHALL BE PRIMED AND PAINTED. DO NOT PAINT SURFACES TO BE EMBEDDED IN CONCRETE.
- 5.13. BEAM END CONNECTIONS, SHALL BE DESIGNED FOR A MINIMUM GRAVITY LOAD OF 50% U.D.L., PER THE "AISC MANUAL OF STEEL CONSTRUCTION, 9TH EDITION", UNLESS OTHERWISE INDICATED. 5.14. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED, TO ERECT AND HOLD THE

STRUCTURE IN PROPER ALIGNMENT, UNTIL ALL PERMANENT BRACING, ROOF & WALL SHEATHING, OR METAL ROOF DECK

6. COLD FORMED METAL FRAMING

- 6.1. ALL STUDS, JOISTS AND ACCESSORIES SHALL BE AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY THE
- MANUFACTURER'S SPECIFICATIONS. 6.2. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) 'SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS', LATEST EDITION.
- 6.3. ALL STRUCTURAL MEMBERS SHALL BE FORMED OF CORROSION RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENT OF ASTM-A446, WITH A MINIMUM YIELD STRENGTH OF 40 KSI.
- 6.4. ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED AND CONFORM TO ASTM-A525.

ARE IN PLACE, TO RESIST LATERAL MOVEMENT OF THE FRAME.

- 6.5. BOTTOM TRACK SHALL BE ATTACHED WITH 'HILTI X-U' POWDER ACTUATED FASTENERS (0.157" SHANK DIAMETER) WITH
- 6.6. ALL STUDS INSTALLED BELOW STEEL BEAMS OR OTHER LOAD BEARING STRUCTURAL MEMBERS SHALL BE ATTACHED WITH A CONTINUOUS DEFLECTION TRACK OR DEFLECTION CLIPS EQUIVALENT TO 'VERTITRACK' OR 'VERTICLIP' FROM 'THE STEEL NETWORK'.

- LINTEL | WIDTH | HEIGHT | METHODS. PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE IMARK ∣'W' ∣'H' AT ALL STAGES OF CONSTRUCTION. CL1 WALL 8"
 - 8["] (U.O.N.)CL3 WALL 24" 16**"**
 - MASONRY LINTEL SCHEDULE NOTES: PROVIDE REINFORCING BOND BEAM LINTELS FOR ALL CONCRETE MASONRY OPENINGS ACCORDING TO SPAN SCHEDULE BELOW, UNLESS OTHERWISE NOTED

'B'

 $0'-0" < CLR. OP'NG. \le 4'-0"$

_ | _ | _ | _

NOTED (WINDOW SILLS, ETC.)

REINF. THIS CELL

> 8'-0" ONLY

REQ'D. AT OPENINGS-

 $4'-0" < CLR. OP'NG. \le 6'-0"$ CL1 $6'-0" < CLR. OP'NG. \le 8'-0"$ CL2 $8'-0" < CLR. OP'NG. \le 10'-0"$ CL2 w/ 16" BRG. EA. END $10'-0" < CLR. OP'NG. \le 12'-0"$ CL3 PROVIDE 'CL1' LINTEL BELOW ALL WALL OPENINGS UNLESS OTHERWISE

CONCRETE MASONRY LINTEL SCHEDULE

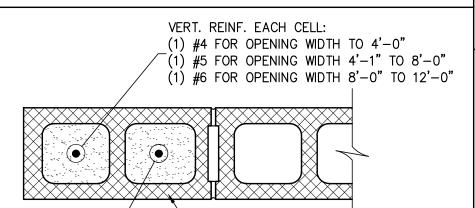
(2) #5

(2) #5

SEE PLAN FOR LOCATION

SEE PLAN FOR LOCATION

SEE PLAN FOR LOCATION

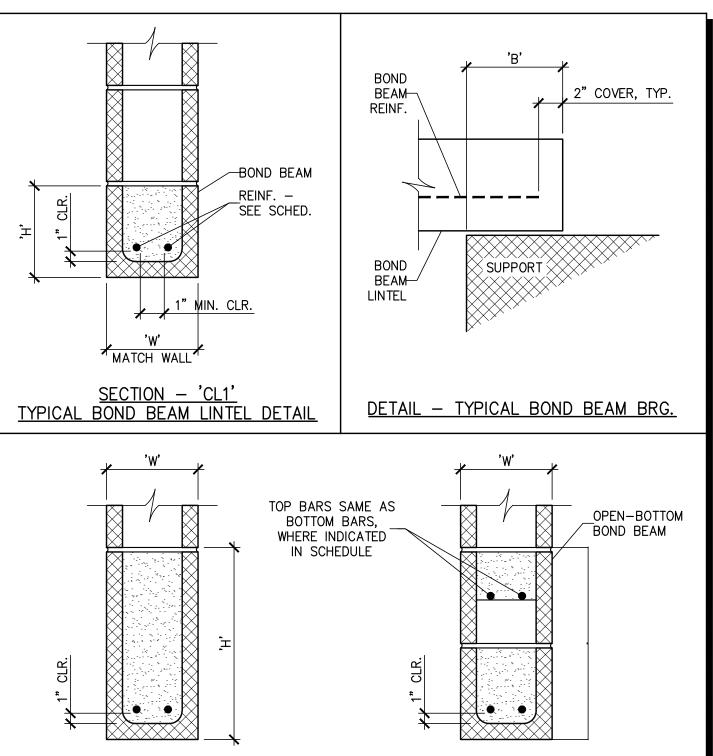


HORIZ. JOINT REINF. NOT

SHOWN FOR CLARITY

TYPICAL JAMB @ EXTERIOR CMU DETAIL NOTES: OPENING WIDTH SHALL NOT EXCEED 12'-0" FOR THIS TYPE OF JAMB, UNLESS OTHERWISE NOTED. 2. THIS TYPE OF JAMB APPLIES WHERE ALL CMU LINTELS ARE USED, UNLESS OTHERWISE NOTED.

<u>PLAN SECTION - JAMB</u>



1" CLR.	TOP BARS SAME AS BOTTOM BARS, WHERE INDICATED IN SCHEDULE OPEN-BOTTOM BOND BEAM
SECTION - 'CL2' / 'CL3' (ONE PIECE)	SECTION — 'CL2' / 'CL3' (MULTIPLE PIECE)

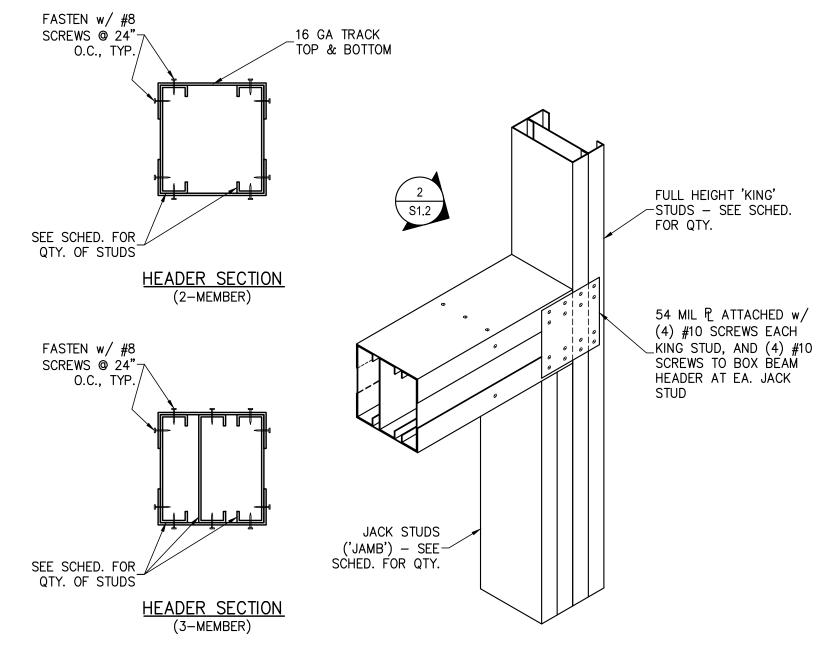
CONCRETE MATERIALS SCHEDULE				
LOCATION	MINIMUM COMPRESSIVE STRENGTH (AT 28 DAYS)	REMARKS		
FOUNDATIONS	3000 PSI	_		
FLOOR SLAB, WALLS, EQUIPMENT PADS	4000 PSI	- -		
CONCRETE FOR MASONRY CORES, BOND BEAMS	3000 PSI	ASTM C476 GROUT		

EVENCED CONC	DETE FINICIL (
EXPOSED CONCRETE FINISH SCHEDULE				
AREA	FINISH	COMMENTS		
ALL EXTERIOR WALLS, CURBS, UNLESS OTHERWISE NOTED	SMOOTH FORM	SEE NOTE 1		
EXTERIOR CONCRETE PAVEMENT, SIDEWALKS	COARSE BROOM	SEE NOTE 1		
SLAB ON GRADE	TROWEL	SEE NOTE 1		
EXT. EQUIP. PADS	COARSE BROOM	SEE NOTE 1		
EXTERIOR STAIRS	COARSE BROOM	SEE NOTE 1		
-	_	_		

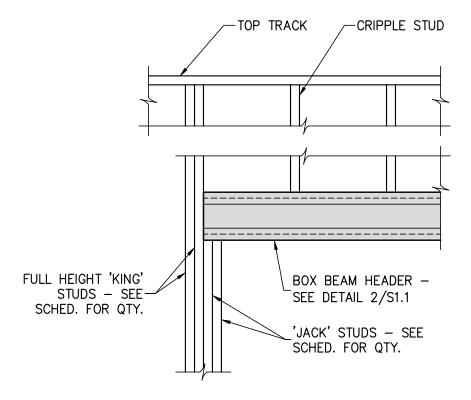
1. SEE SPECIFICATIONS SECTION, '03300 CAST-IN-PLACE CONCRETE', FOR ADDITIONAL INFORMATION.

	CONCRETE REB	BAR SPLICE SC	CHEDULE						
BAR	LAP LENGTH (in.)								
SIZE	f'a = 3000 psi	f'c = 4000 psi	f'c = 5000 psi						
#4	22	19	17						
#5	28	24	21						
#6	32	29	26						
#7	48	42	37						
#8	55	48	43						

- CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
- BAR YIELD STRENGTH (fy) IS 60 KSI. BAR SPACING AND COVER REQUIREMENTS OF ACI SECTION 25.4.2.2 ARE ASSUMED TO BE MET. IF NOT, MULTIPLY LENGTHS IN TABLE BY 1.5. 4. REDUCTION OF EXCESS REINFORCEMENT NOT TAKEN.
- 5. IF MORE THAN 12" OF FRESH CONCRETE IS CAST IN MEMBER BELOW HORIZONTAL SPLICE, MULTIPLY LENGTHS IN TABLE BY 1.3.



∖ DETAIL - METAL STUD BOX BEAM HEADER \backslash S3.1 / N.T.S.



	TYP. METAL STUD
	BOX BEAM ELEVATION
S3.1/	3/4" = 1'-0"

В	OX HEADER	BEAM SCH	EDULE
OPENING WIDTH	JACK STUD QUANTITY	KING STUD QUANTITY	HORIZ. MEMBER QTY. & CONFIG.
0'-0" TO 4'-0"	1	2	(3) 6" x 16 GA. OR (2) 8" x 16 GA.
4'-1" TO 8'-0"	2	3	(3) 8" x 16 GA. OR (2) 10" x 16 GA.
8'-1" TO 12'-0"	3	4	(3) 10" x 16 GA.
> 12'-0"		SEE PLAN	

I. USE INFORMATION IN THIS SCHEDULE UNLESS OTHERWISE NOTED ON PLAN. 2. SEE GENERAL STRUCTURAL NOTES, SECTION FOR 'COLD FORMED METAL FRAMING'

- FOR ADDITIONAL INFORMATION. 3. SEE 1/S3.1 AND 2/S3.1 FOR ADDITIONAL INFORMATION.
- 4. CONNECT KING STUD TO JACK STUDS WITH #10 SCREWS @ 12" O.C. MAX.



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REVISIONS:

DESCRIPTION:

7

DATE:

SHEET NAME: **General Structural Notes** and Schedules

Construction Documents

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY: **MKE**

PLUMBING GENERAL NOTES:

1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.

2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, TEES, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.

3. THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING

4. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC. (COST SHALL BE PASSED THROUGH TO OWNER).

5. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.

6. ALL DOMESTIC WATER PIPING SHOWN IS ABOVE BETWEEN FLOOR JOIST/WITHIN WALLS, AND IN CRAWL SPACES UNLESS OTHERWISE NOTED.

7. ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE COPPER TUBING, CPVC OR FLEXIBLE PLASTIC TUBING (PEX) TO MATCH THE EXISTING PIPING. PIPING BELOW SLAB SHALL BE SOFT COPPER TUBING, 10'-0" MINIMUM, WITH NO JOINTS. COPPER TUBING BELOW GRADE SHALL BE UTILIZED AS THE ELECTRICAL SYSTEM GROUNDING ELECTRODE.

8. ALL WATER PIPING SHALL BE INSULATED WITH PREFORMED FIBERGLASS TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR DOMESTIC WATER PIPING SHALL BE AT LEAST THE MINIMUM PER THE CURRENT NC ENERGY CONSERVATION CODE SECTION 503.2.6. INSTALL SADDLES AS REQUIRED IN ALL LOCATIONS TO PREVENT COMPRESSION OF INSULATION.

9. ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED BALL. TEFLON SEATS 150 # WSP, FOR SIZES 1/2" THRU 2". PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.

10. ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.

11. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D 2661. ALL JOINTS SHALL BE SOLVENT WELDED TYPE CONFORMING TO ASTM D 2665/2949/3034, ASTM F 891, CSA B182.2,CSA CAN/CSA-B182.4

12. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS RECOMMENDATIONS.

13. ALL PIPING PENETRATIONS THRU NEW AND EXISTING WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING WALL.

14. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.

15. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPING WITH ALL STRUCTURAL FOUNDATIONS, P.C. SHALL COORDINATE ALL UNDER SLAB PLUMBING WITH ELEVATION INVERTS WITH THE SITE UTILITY INVERTS.

16. ALL EXPOSED WATER SUPPLY AND WASTE LINES UNDER OPEN SINKS/LAVATORIES SHALL HAVE PROTECTIVE DEVICES INSTALLED TO MEET LATEST NCSBC AND ADA REQUIREMENTS.

17. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.

18. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.

19. WATER HEATERS SHALL COMPLY WITH N.C ENERGY CODE SECTION 504 OF THE NC BUILDING CODE

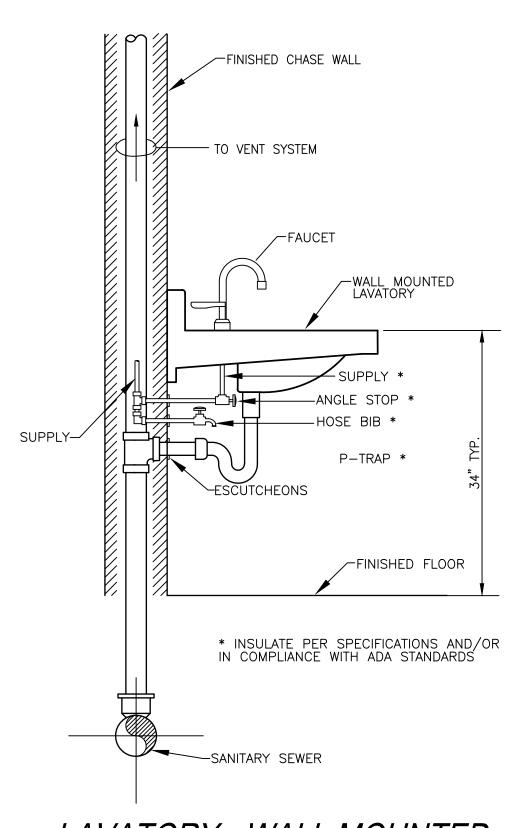
20. ALL FLOOR DRAINS, HUB DRAINS, AND FLOOR SINKS SHALL HAVE TRAP PRIMERS OR HOSE BIBBS, INSTALLED AS SPECIFIED IN THE N.C. PLUMBING CODE SECTION 412.6.

21. P.C. SHALL VERIFY AND SET THE MAXIMUM OUTLET TEMPERATURES AT ALL NON-COMMERCIAL KITCHEN EQUIPMENT INCLUDING HAND SINKS LOCATED IN THE KITCHEN TO NOT EXCEED 120°F BY INSTALLATION OF POINT OF USE ANTI-SCALD MIXING VALVES IF NECESSARY.

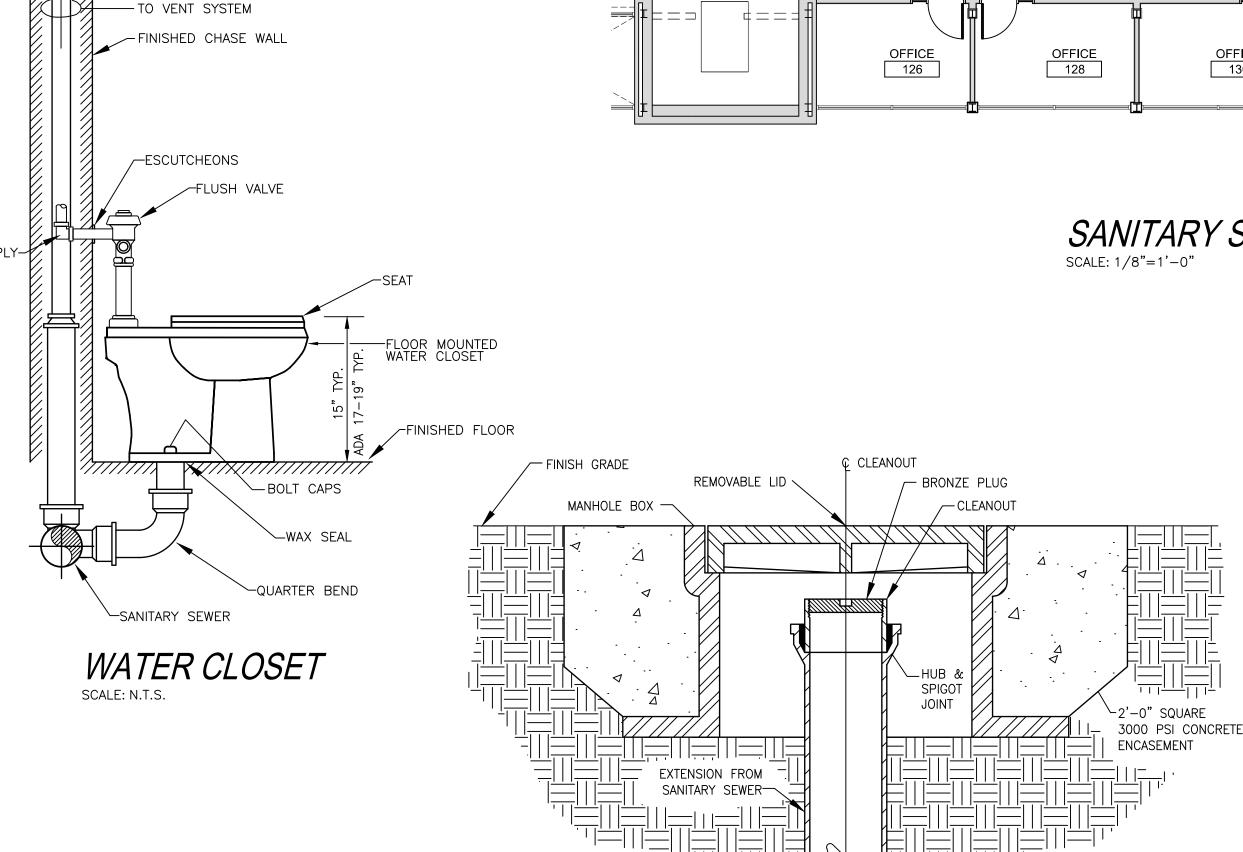
22. ALL ACCESS COVERS INCLUDING BUT NOT LIMITED TO IN-GRADE CLEANOUTS, MANHOLES, AND WATER METER BOXES SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE SPECIFIED

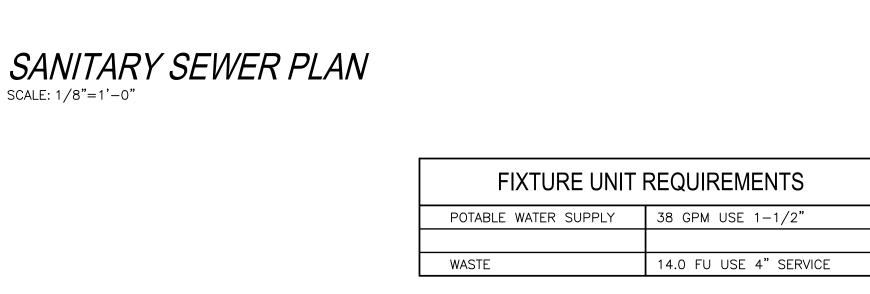
23. ALL VERTICAL WASTE STACKS SERVING MULTI-STORY BUILDINGS OR DWELLINGS SHALL BE CONSTRUCTED OF CAST IRON PIPE CONFORMING TO ASTM A 74, ASTM A 888, CISPI 301. JOIN CAST IRON WASTE STACKS TO HORIZONTAL PVC WASTE PIPING USING APPROPRIATE FITTINGS MEETING CORRESPONDING ASTM STANDARDS.

24. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C. PLUMBING CODE.









OFFICE 145

159

131

130

TO BE ABANDONED

137

OFFICE 136

135

OFFICE 132

IN PLACE. (TYP)

144

147

146B

CONFERENCE

129

CORRIDOR

156

BREAKROOM

148

UNISEX RR & SHOWER

JANITOR

\\51

CS CS CS

CS CS CS

154

RECEPTION

124

MEETING

125

CLEANOUT

SCALE: (IN GRADE)

OFFICE 143

OFFICE 142

OFFICE 141

138

MECHANICAL

OPEN WORK

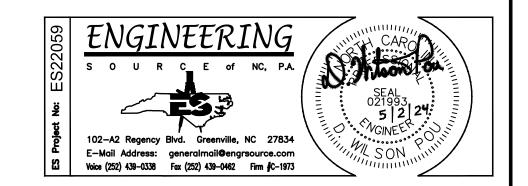
AREA

134

133

140

FIXTURE CALCULATIONS JUS	TIFICATION						
OCCUPANCY = BUSINESS	MINIMUM PLUMBING FIXTURI FROM TABLE 403.1						
NET AREA FOR OCCUPANT CALC.:		TOTAL REQUIRED	TOTAL PROVIDED				
BUSINESS OFFICE= 8,200 SQFT / 100 GROSS=82 PEOPLE	MALES	2 WC 2 LAVATORY	1 WC 2 UR 3 LAVATORY				
DIVISION OF FACILITIES PER TABLE 403.4: MALE: 50% FEMALE: 50%	FEMALES	2 WC 2 LAVATORY	3 WC 3 LAVATORY				
82 x .5 = 41 FEMALE 82 - 41 = 41 MALE	DRINKING FOUNTAINS	1 EWC	1 HI-LOW				





SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THEY HAVE BEEN PREPARED FOR A SPECIFIC PROJECT AND SHALL NOT BE USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT. ©-MHAworks 2022

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3

REVISIONS: # DESCRIPTION: DATE

SANITARY SEWER PLAN

SHEET NAME:

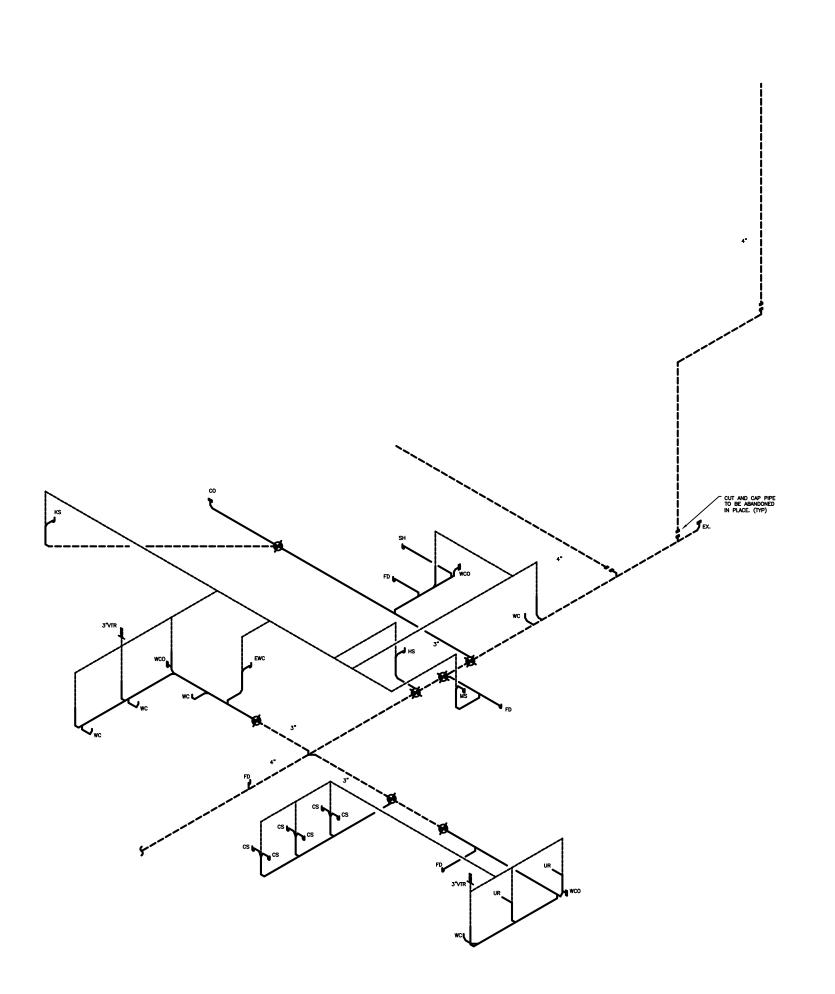
Construction Documents

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY:

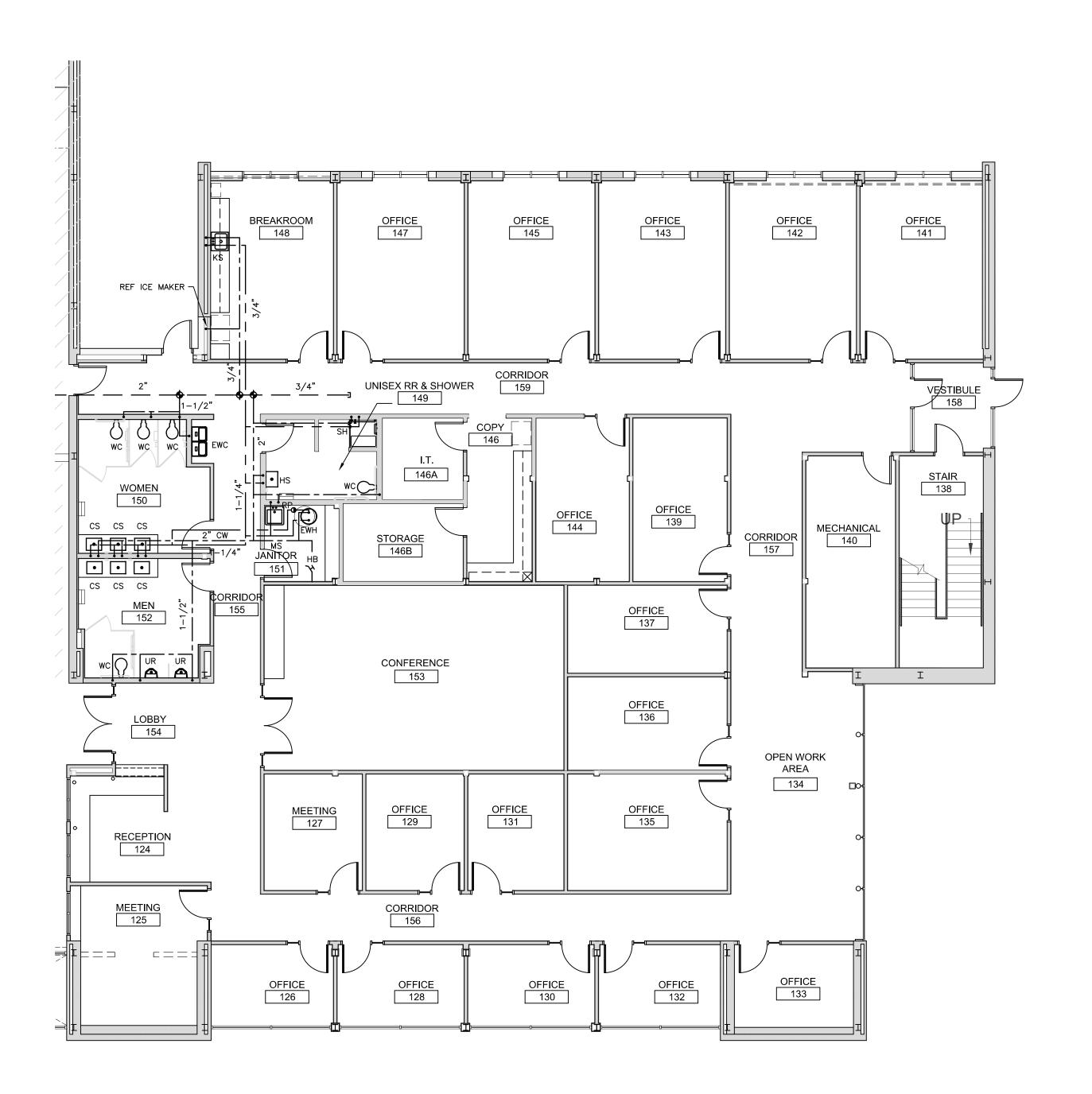
> SHEET NUMBER P1.1

	PLUMBING FIXTURE SC	HE	DU	LE	•		
ITEM	DESCRIPTION	FINISH	COLD	НОТ	VENT	WASTE	ADA
WC-H	WATER CLOSET - KOHLER HIGHCREST 16-1/8" UNIVERSAL HEIGHT EL 1.6 ELONGATED FLUSH VALVE WC	WHITE			2"	3"	YES
	SEAT - KOHLER K-4666-SA ANTI-MICROBIAL OPEN FRONT SEAT W/ SELF SUSTAINING CHECK HINGE	WHITE					YES
	FLUSH VALVE - ZURN Z6000AV-WS1 OR EQUAL	CHROME	1"				
HS	HAND SINK — WHITE VITREOUS CHINA WALL HUNG	WHITE			1-1/2"	" 3" /2" 2" 3" /2" 2" 3" /2" 2" /2" 2"	YES
	FAUCET - WIDE SPREAD FAUCET WITH SINGLE LEVER CONTROL	CHROME	1/2"	1/2"			YES
	PROVIDE & INSTALL P-TRAP & SUPPLY LINE INSULATION KIT	WHITE					
FD	FLOOR DRAIN - ZURN M# ZN415B WITH TYPE "B" STRAINER	NICK-BRNZ					
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)					3"	
CS	COUNTER SINK - 15"x15" ADA STAINLESS SINK, 2 HOLE 4" CENTERS, ELKAY LUSTERONE # BLR1560.	BY ARCH.			1-1/2"	2"	YES
	FAUCET - KOHLER REVIVAL K-16112 WITH WRIST BLADE HANDLES		1/2"	1/2"			YES
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS).		,				
CO	CLEAN-OUT IN FLOOR - ZURN MODEL # ZN-1444-BP WITH INSIDE CAULK CONNECTION	BRONZE				3"	
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)						
UR	URINAL — WHITE VITREOUS CHINA, WALL HUNG, KOHLER "FRESHMAN" K—4989—T—O	WHITE			1-1/2"	2"	YES
	FLUSH VALVE - ZURN Z6003AV-WS1	CHROME	3/4"			3" 2" 3" 2" 2" 2" 2"	YES
SH	SHOWER-ADA COMPLIANT WHITE ACRYLIC SHOWER INSERT WITH INTEGRAL STAINLESS STEEL GRAB BAR AND WITH	BY ARCH.			2"	2"	YES
	STAINLESS STEEL, WOOD GRAIN/PHENOLIC FOLDING SEAT. HAND SHOWER-SYMMONS 96-500-B30-L-V PRESSURE		1/2"	1/2"			YES
	BALANCING WITH ADJUSTABLE AND STATIONARY SHOWER HEAD (OR EQUAL FROM MANUFACTURERS SPECIFICATIONS).		1 ./ =	'/-			
KS	KITCHEN SINK - KOHLER "LADENA" UNERMOUNT SINK M# K-2214-0	STAINLESS			1-1/2"	2"	
	FAUCET - KOHLER "CORALAIS" DECK MOUNTED FAUCET WITH LEVER HANDLES M# K-15270-4-CP	CHROME	1/2"	1/2"			
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)		,	'			
EWC	ELECTRIC WATER COOLER IN HIGH LOW CONFIGURATION WITH BOTTLE FILLING STAION — ELKAY EMABFTL8WSLK	BY ARCH.	3/4"		1-1/2"	2"	YES
	8 GPH OF 50 ° F WATER @ 80° F INLET WATER AND 90° F ROOM TEMPERATURE.						
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS).						
НВ	HOSE BIB - WOODFORD KEYLESS, NON-FREEZELESS, M # 24-C	CHROME	3/4"				
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATIONS)						
WCO	WALL-CLEAN-OUT - ZURN M# ZN-1441-BP	BRONZE					
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION)					3" 2" 3" 2" 2" 2"	

*MODEL NUMBERS ARE PROVIDED TO ESTABLISH A LEVEL OF QUALITY. EQUAL QUALITY PRODUCTS ARE ACCEPTABLE.



DWV RISER DIAGRAM
SCALE: N.T.S



POTABLE WATER PLAN SCALE: 1/8"=1'-0"

				EWH	SCHEDULE			
TAG	LOCATION	CAP	ELEMENT	TEMP	RCVY @ 60° RISE	MFR / MODEL no.	ELECT'L	NOTES
EWH	STORAGE 146A	60	6000 W	110	31 GAL	A.O. SMITH No. DEN-66	208V 1ø 28.8A	1,3,4,5
S 2) F 1 3) F	STATE INDUSTRIES, LOCI PECIFICATIONS ARE ACC PROVIDE BRONZE BODY /12 hp, 115V; B&G No PROVIDE EWH WITH NON SEE DETAIL FOR ACCESS	EPTABLE RECIRCU LR-15 -SIMULTA	SUBSTITUTES LATION PUMP RA' B OR EQUAL BY	TED FOR 8 (TACO OR AF	GPM © 10' HEAD, RMSTRONG.) WATTÄGÉ T TEMPERATURE (d @ 100 deg F RISI	

5) WATER HEATER SHALL COMPLY WITH SECTION 504 OF THE NORTH CAROLINA ENERGY CODE.





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NC Global Transpark Terminal Building: Phase

3

DATE

POTABLE WATER PLAN

SHEET NAME:

REVISIONS:
DESCRIPTION:

PHASE: Construction Documents

ISSUE DATE: **05/02/2024**PROJECT #: **18056C**DRAWN BY: **BVM**

SHEET NUMBER P1.2

MECHANICAL GENERAL NOTES:

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE NC BUILDING CODE & CONTR. SHALL NOTIFY ENGINEER IN WRITING REGARDING ANY CODE DISCREPANCIES FOUND ON PLANS. CONTR. IS RESPONSIBLE FOR PERMITS, INSPECTIONS AND FEES.

2. SYSTEMS INDICATED ON PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL PROVIDE NECESSARY HANGERS, FASTENERS ETC. TO PROVIDE A COMPLETE AND WORKING SYSTEM.

3. CONTRACTOR SHALL SEAL ALL DUCTWORK WITH A PAINT ON MASTIC. ALL WALL PENETRATIONS SHALL BE SEALED

4. CONTRACTOR SHALL FIELD MEASURE ACTUAL INSTALLED CONDITIONS AND COORDINATE DUCT SIZES PRIOR TO FABRICATION OR INSTALLATION OF EQUIP. & DUCTWORK.

5. CONTRACTOR SHALL COORDINATE ALL DUCTWORK, DIFFUSER AND GRILLE LOCATION WITH OTHER CEILING MOUNTED DEVICES SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN.

6. CONTRACTOR SHALL INSTALL BALANCING DAMPERS IN EACH BRANCH DUCT TO PROVIDE PROPER AIRFLOW TO EACH ZONE.

7. LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" A.F.F. (CENTER OF BOX FOR GYP BRD, TOP OF BOX FOR MASONRY) IN LOCATION INDICATED ON PLANS.

8. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.

9. CONTRACTOR SHALL COORDINATE ALL ROOF AND FLOOR PENETRATION LOCATIONS AND SIZES.

10. FABRICATE AND INSTALL ALL DUCT WORK PER SMACNA 1.5" W.C. PRESSURE. ALL ELBOWS SHALL HAVE 1.5R CENTERLINE. ALL DUCT UNDER SLAB SHALL BE FIBERGLASS.

11. ALL FLEXIBLE ROUND DUCT SHALL BE PRE-INSULATED DOUBLE WALLED WITH SPIRAL METAL RIB, AND SHALL HAVE MIN. RESISTANCE VALUE OF R-6. MAXIMUM LENGTH SHALL BE 10'-0" UNLESS SHOWN SPECIFICALLY OTHERWISE IN PLAN. SECURE ENDS WITH NYLON BANDS AND TAPE.

12. ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED WITH A MINIMUM OF 2-3/16" 3/4 LB. OR 2" OF 1.0 LB. DENSITY FIBERGLASS WRAP. INSULATED DOUBLE WALLED SPIRAL DUCT SHALL HAVE A MINIMUM INSULATION THICKNESS OF 2" OF 1.5 LB. DENSITY. PIPING INSULATION (REFRIGERANT OR WATER) SHALL BE A MINIMUM OF 1-1/2" THICK OR PER LATEST NC ENERGY CODE, WHICHEVER IS GREATER.

13. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALUMINUM JACKET PROTECTIVE COVERING FOR ALL REFRIGERANT PIPE INSULATION INSTALLED ON THE BUILDING EXTERIOR.

14. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN CONNECTIONS TO HVAC UNITS.

15. PROVIDE AUXILIARY CONDENSATE DRAIN PAN FOR ALL AIR HANDLING UNITS, FAN COIL UNITS, FURNACE WITH COOLING COIL, ETC. CONTRACTOR SHALL PROVIDE AND INSTALL WATER LEVEL FLOAT SWITCH IN AUXILIARY DRAIN PAN. FLOAT SWITCH SHALL SHUT DOWN INDOOR AND ASSOCIATED OUTDOOR UNIT WHEN ACTIVATED. DRAIN PAN OUTLET SHALL BE PIPED TO BUILDING EXTERIOR.

16. CONDENSATE PIPE SHALL BE SCHEDULE 40 PVC OR HARD DRAWN COPPER. INSTALL WITH PROPER SLOPE AND NO SAGS. COPPER PIPE SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION. SCHEDULE 40 PVC PIPE SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION.

17. ALL DUCTWORK AND PIPING SHALL BE CONCEALED ABOVE CEILINGS, TRUSSES AND SOFFITS EXCEPT IN MECHANICAL ROOMS, UTILITY PLATFORMS, AREAS WITH EXPOSED STRUCTURE (NO CEILINGS), AND WHERE NOTED OTHERWISE.

18. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING & CONNECTIONS TO HIS EQUIPMENT. COOR'D. FEEDER AND FUSE SIZES FOR SPECIFIC EQUIPMENT PROVIDED WITH ELECTRICIAN. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL WORK AND EQUIPMENT REQUIRED TO PROVIDE FEEDERS FOR EQUIPMENT THAT EXCEEDS THE AMP RATINGS LISTED IN THE SCHEDULE.

19. MECHANICAL CONTRACTOR MAY USE ROUND DUCT OF EQUIV. AREA IN LIEU OF RECTANGULAR. COOR'D. ROUND DUCT SIZES W/ ENGR. USE INSULATED DOUBLE WALLED SPIRAL DUCT WITH PAINT GRIP FINISH WHERE DUCT IS TO BE EXPOSED.

20. MECHANICAL CONTRACTOR SHALL PROVIDE ENGR. WITH AN AIR BALANCE REPORT INDICATING INITIAL AND FINAL READINGS AT EACH DIFFUSER AND TOTAL CFM PER UNIT, INCLUDE IN DOCUMENTS PROVIDED TO OWNER AT JOB CLOSEOUT.

21. MECHANICAL CONTRACTOR SHALL LABEL ALL EQUIPMENT WITH ENGRAVED PLASTIC LAMINATE, SCREWED TO PIECE OF EQUIPMENT.

22. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL CO SENSOR FOR ALL GAS FIRED EQUIPMENT.

23. UNIT CONTROLLER OR PROGRAMMABLE THERMOSTAT SHALL HAVE 7 DAY PROGRAMING, TIMED OVER—RIDE AND THE ABILITY TO RUN FANS IN OCCUP. MODE & CYCLE FANS IN UN-OCCUP. MODE.

24. MECHANICAL CONTRACTOR SHALL CHANGE UNIT FILTERS AFTER EACH TWO WEEKS OF RUN TIME, AND SHALL LEAVE ONE CHANGE OF FILTERS FOR OWNER TO USE FOR NEXT FILTER CHANGE.

25. MECHANICAL CONTRACTOR SHALL NOT ALLOW DUCTWORK TO CONTACT LAY-IN LIGHT FIXTURES. ROUTE ACCORDINGLY.

26. MECHANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS WHERE INDICATED ON PLANS. IF AN EXISTING FIRE ALARM SYSTEM IS PRESENT, DUCT DETECTORS SHALL BE CONNECTED TO EXISTING FIRE ALARM SYSTEM. MECHANICAL CONTRACTOR SHALL COORDINATE CONNECTION TO FIRE ALARM SYSTEM WITH ELECTRICAL CONTRACTOR AND/OR FIRE ALARM CONTRACTOR. IF A FIRE ALARM SYSTEM IS NOT PRESENT, PROVIDE DETECTOR & ASSOCIATED HORN/STROBE ALARM (HONEYWELL RTS2-AOS MULTI-SIGNALING) AS REQUIRED BY N.C. MECHANICAL CODE SECTION 606.4.1. M.C. IS RESPONSIBLE FOR DUCT ACCESS DOORS UNDER ALL CIRCUMSTANCES.

27. PROVIDE HEAT PUMP WITH CONTROLS TO PREVENT HEAT STRIP FROM OPERATING WHEN OUTSIDE AIR TEMP. IS ABOVE 40°F. (C403.2.4.1.1 NC ENERGY CODE)

		Alf	R DISTRIBUTI	ON		
MARK	MAX. CFM	FRAME	NECK SIZE	MODEL	MANUF.	REMARKS
A/AG	400	T-BAR/GYP.	10"ø	SMD	PRICE	1,2,3,5,7
B/BG	200	T-BAR/GYP.	8"ø	SMD	PRICE	1,2,3,5,7
C/CG	100	T-BAR/GYP.	6"ø	SMD	PRICE	1,2,3,5,7
D/DG	100	T-BAR/GYP.	12X12 6"ø	SMD	PRICE	2,3,5,7
R1	R1 550 T-BAR R2 1400 T-BAR		12x12	80TB	PRICE	1,2,4,5,6
R2			22×22	80TB	PRICE	1,2,4,5,6

- FLEX. DUCT CONNECTION (TYP.)

~OUTSIDE AIR

- ACCESS DOOR

N BY M.C.

- LINED

DUCT

FINISHED FLOOR

RETURN

1. ALL GRILLES SHALL HAVE 24"x24" FACE.

2. NC SHALL NOT EXCEED NC 25. 3. MAX. SP SUPPLY — 0.10" W.G.

AUX. DRAIN PAN UNDER AHU WITH

REFRIGERANT PIPING TO COLLECT-

CONDENSATE.

FLOAT SWITCH, SHALL EXTEND PASS

CONDENSATE DRAIN S-C

NOTE: ALL CONDENSATE PIPING SHALL

EXTERIOR WALL.

INSULATED WITH 1/2" THICK CLOSED CELL

INSULATION FROM AIR HANDLING UNIT TO

AHU DETAIL

4. MAX. SP RETURN - 0.05" W.G.

5. ALL RUN-OUTS AND FLEX TO BE EQUAL TO NECK SIZE FOR SUPPLY. 6. PAINT INSIDE PAN FLAT BLACK.

7. CONTRACTOR SHALL INSULATE BACK OF SUPPLY GRILLE PAN.

MECHANICAL LEGEND G.C. GEN. CONTR. E.C. ELEC. CONTR.

P.C. PLUMB. CONTR. AFF ABOVE FINISH FLOOR AFG ABOVE FINISH GRADE

7 18x16 7 WRAPPED RIGID DUCT INSULATED FLEXIBLE DUCT SUPPLY DIFFUSER

> RETURN AIR GRILLE CEILING EXHAUST GRILLE OR FAN

THERMOSTAT & UNIT SERVED.

HUMIDISTAT & UNIT SERVED. A-400 DIFFUSER TYPE-CFM

MANUAL DAMPER DUCT MOUNTED SMOKE DETECTOR CEILING MOUNTED SMOKE DETECTOR

> FIRE ALARM HORN/STROBE (SEE GENERAL NOTES)

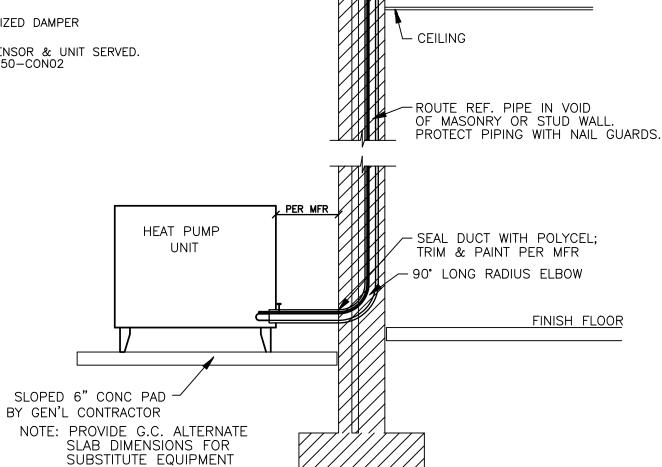
CONN. TO EXIST. --- G --- GAS PIPING

SPRING LOADED FIRE DAMPER CO2 SENSOR (800 PPM) & UNIT SERVED.

TWIST TIMER SWITCH

CO & NO SENSOR & UNIT SERVED.

120V MOTORIZED DAMPER CN AHU-1 CONSPEC CN50-CON02



MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

PRESCRIPTIVE ☒

CLIMATE ZONE: IBC - 3A

WINTER DRY BULB: 18.8°F SUMMER DRY BULB: 91.7°F

INTERIOR DESIGN CONDITIONS WINTER DRY BULB: 70°F SUMMER DRY BULB: 75°F

RELATIVE HUMIDITY: 50%

DESCRIPTION OF UNIT:

HEATING EFFICIENCY:

COOLING EFFICIENCY:

LIST EQUIPMENT EFFICIENCIES

MOTOR HORSEPOWER: NUMBER OF PHASES:

MINIMUM EFFICIENCY:

DESIGNER STATEMENT:

energy conservation code.

TITLE: PRESIDENT

NAME: D. WILSON POU, P.E.

MOTOR TYPE

OF POLES:

CHILLER

HEAT OUTPUT OF UNIT:

BUILDING HEATING LOAD: 142 MBH

BUILDING COOLING LOAD: 218 MBH

MECHANICAL SPACE CONDITIONING SYSTEM

COOLING OUTPUT OF UNIT: SEE SCHEDULE

TOTAL BOILER OUTPUT: (If oversized, state reason)

TOTAL CHILLER OUTPUT: (If oversized, state reason)

THERMAL ZONE

METHOD OF COMPLIANCE:

AIR COOLED DX SPLIT HP

15 SEER

SEE SCHEDULE

EQUIPMENT SCHEDULES WITH MOTORS (Not used for mechanical systems)

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 2012 North Carolina

EXISTING HVAC SYSTEM TO REMAIN - NO NEW MECHANICAL EQUIPMENT IN THIS CONTRACT.

← REFRIGERATION PIPING

AS SPECIFIED

ENERGY COST BUDGET

HEAT PUMP INSTALLATION DETAIL

	SPLIT-SYSTEM HEAT PUMP SCHEDULE															
		SUPPLY FAN							COOLING						HEATING	
			ESP					STRIP KW					NOM.	NOM.	EER/	MIN.
MARK	OA	CFM	(IN. W.G.)	FAN HP	VOLT/PH	МСА	моср	@ 208V	MARK	VOLT/PH	МСА	МОСР	TC (BTUH)	SC (BTUH)	SEER	BTUH
AHU-1	250	2,000	.50	1.0	208/3	46.0	50	10.8	HP-1	208/1	36.0	60	60,000	42,000	15	36,900
AHU-2	250	2,000	.50	1.0	208/3	46.0	50	10.8	HP-2	208/1	36.0	60	60,000	42,000	15	36,900
AHU-3	100	800	.50	1/4	208/1	36.0	40	5.76	HP-3	208/1	11.0	15	24,000	16,800	15	19,700
AHU-4	250	2,000	.50	1.0	208/3	46.0	50	10.8	HP-4	208/1	36.0	60	60,000	42,000	15	36,900
AHU-5	100	1,200	.50	1/2	208/3	28.0	30	7.20	HP-5	208/1	18.0	30	36,000	25,200	15	24,600

1. HEATING AND COOLING CAPACITIES ARE MINIMUM ACCEPTABLE VALUES 2. PROVIDE WITH FILTERS AND FILTER FRAMES.

PROVIDE WITH SINGLE POINT OF CONNECTION KIT.

4. "TRANE" "CARRIER" AND "DAIKIN" EQUIPMENT ACCEPTABLE, PROVIDE WITH WIFI ACCESSIBLE PROGRAMMABLE THERMOSTATS. 5. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH E.C. FUSES REQUIRED FOR EQUIPMENT PURCHASED.

. AMP RATINGS GIVEN ARE MAXIMUM VALUES.

7. ESP INCLUDES .35" FOR DIRTY FILTER ALLOWANCE.

				FAN SCHEE	ULE					
SYMBOL	AREA SERVED	MANUF./MODEL	SERVICE	TYPE ASSEMBLY	CFM	SP (IN. W.G.)	DRIVE TYPE	WATTS	VOLT/PH	REMARKS
EF-A	REST ROOM	GREENHECK/SP-A190	EXHAUST	CABINET	150	.125	DIRECT	113	120/1	1,2,4
EF-B	SHOWER ROOM	GREENHECK/SP-A200	EXHAUST	CABINET	220	.125	DIRECT	50	120/1	1,2,4
EF-C	IT ROOM	GREENHECK/SP-A290	EXHAUST	CABINET	275	.125	DIRECT	81	120/1	1,2,4

SCALE: NTS

1. BACKDRAFT DAMPER. 2. UNIT MOUNTED DISCONNECT SWITCH.

3. ROUTE 8"Ø DUCT TO EXTERIOR WALL, PROVIDE WITH WALL CAP.

TOTAL REQUIRED

TOTAL PROVIDED I

4. PROVIDE WITH BACKDRAFT DAMPER, FAN GUARD AND DISCHARGE HOOD. 5. PROVIDE WITH THERMOSTAT TO CONTROL HEAT BUILD-UP IN ROOM. 6. EQUALS BY CARNES, PENN, ILG AND BROAN ARE ACCEPTABLE.

NC	CBC VI	ENTILAT	TION CALC	CULATIONS	
OCCUPANCY TYPE	SQ. FT.	O.A. PER SQ. FT.	# OF OCCUPANTS	O.A. PER PERSON	TOTAL O.A
OFFICE SPACE	8,200	0.06	82	5	902

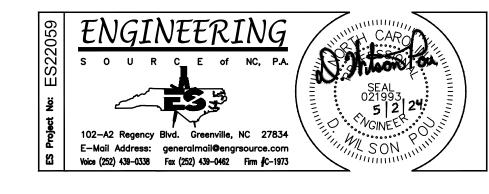
- DUCT MOUNTED SMOKE

DETECTOR PROVIDED &

BY M.C.

WIRED BY E.C., MOUNTED

	NC	CBC VI	ENTILAT	TION CALC		
		SQ. FT.	O.A. PER SQ. FT.	# OF OCCUPANTS	O.A. PER PERSON	TOTAL O.A. CFM
		8,200	0.06	82	5	902
FOR	BUILDING					902
FOR I	BUILDING					950





Together, we create.

SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN THE PROPERTY OF THE ARCHITEC THEY HAVE BEEN PREPARED FOR A SPECIFIC PROJECT AND SHALL NOT BE USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT. @-MHAworks 2022

Q 0 0 7 **5** B <u>O</u> 0 etp E

3

REVISIONS: # DESCRIPTION: DATE

(1)

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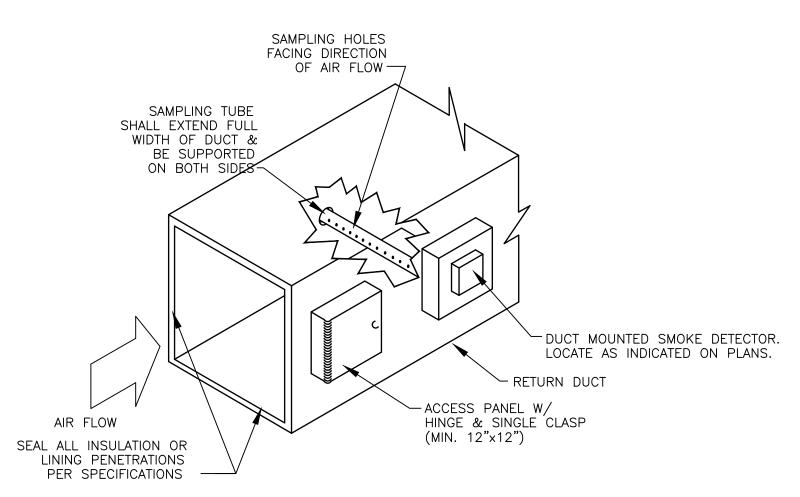
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SCHEDULES & DETAILS

SHEET NAME:

Construction Documents

ISSUE DATE: 05/02/2024 PROJECT #: **18056C** DRAWN BY:



DUCT MOUNTED SMOKE DETECTOR DETAIL

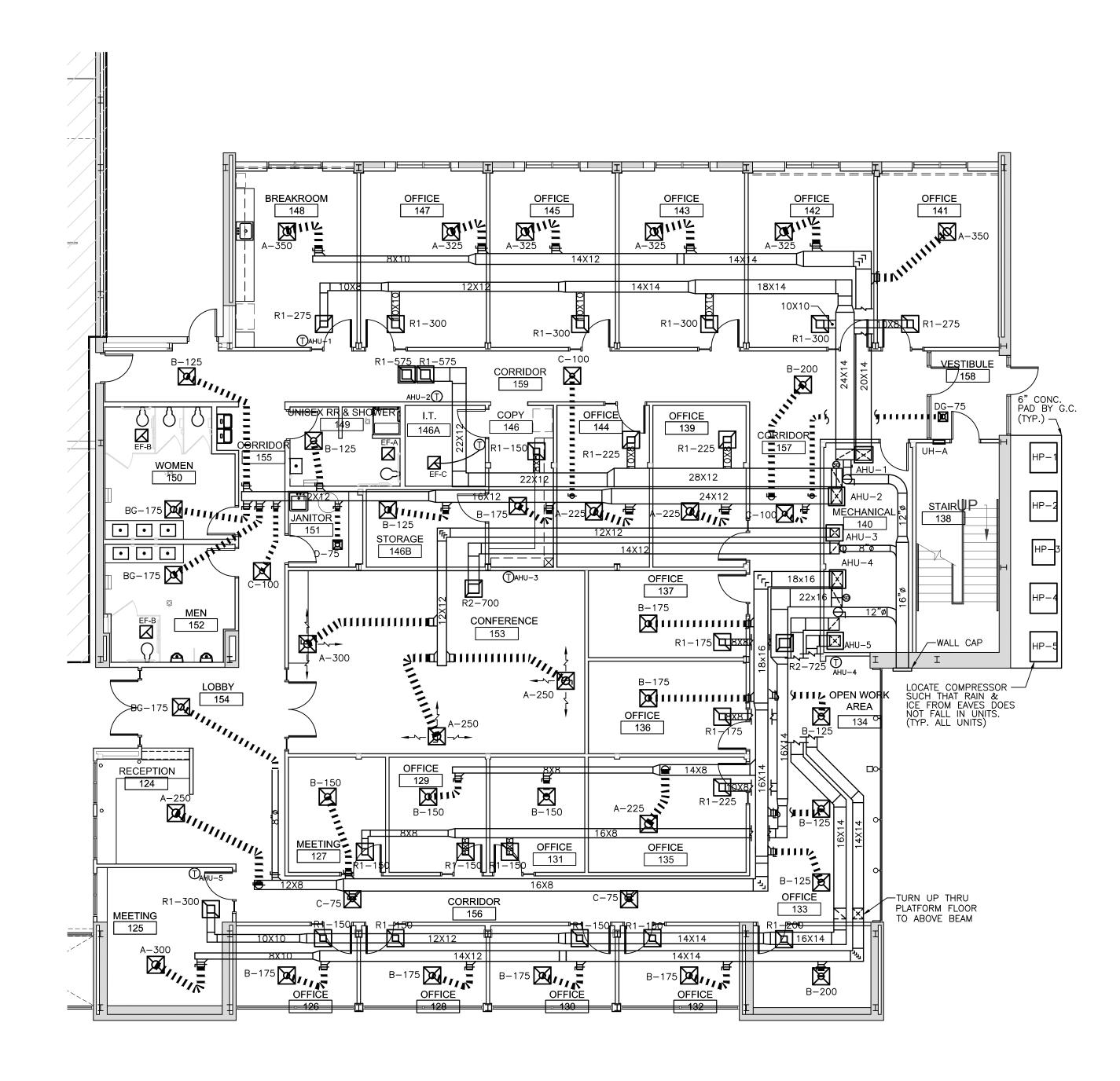
ELECTRIC UNIT HEATER SCHEDULE											
MARK KW VOLTAGE/ MAKE/MODEL AMP DRAW CFM BTU OUTPUT NOTES											
UH-A	4.0	208/1	MARKEL-F3326TD-RP	19.2	175	13,649	1,2				

^{1.} PROVIDE WITH UNIT MOUNTED THERMOSTAT & UNIVERSAL WALL MOUNT BRACKET
2. PROVIDE WITH UNIT MOUNTED CIRCUIT BREAKER

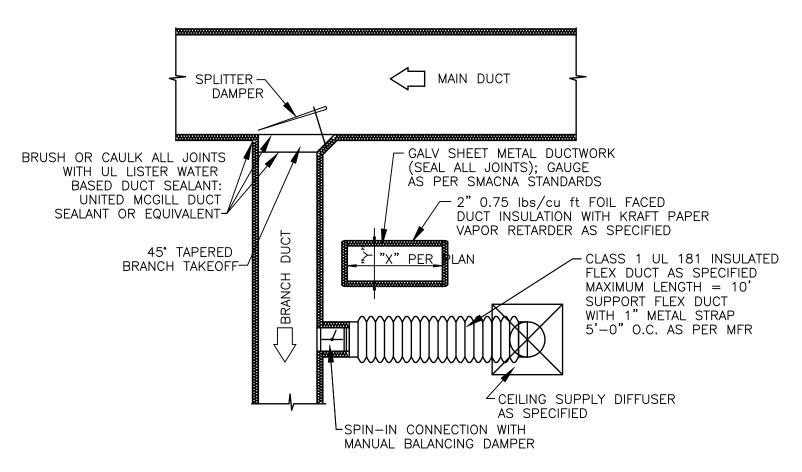
BRANCH CIRCUIT AND CONDUIT BY ELECTRICAL CONTRACTOR. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES * A COMBINATION STARTER MAY BE TO HVAC EQUIPMENT. HVAC USED IN LIEU OF A SEPERATE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DISCONNECT SWITCH AND STARTER. ANY WIRE AND BREAKER SIZE CHANGES WITH ELECTRICAL CONTRACTOR. EXTERNALLY OR INTERNALLY MOUNTED DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE FUSES, AS REQUIRED. JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. <u>ELE</u>CTRICAL (NOT NECESSARY IF WIRING EXTERNALLY MOUNTED STARTER -IS CONNECTED DIRECTLY TO FURNISHED BY MECHANICAL PANELBOARD STARTER OR DISCONNECT CONTRACTOR AND INSTALLED SWITCH.) BY ELECTRICAL CONTRACTOR. LINE AND LOAD SIDE CONNECTIONS BY ELECTRICAL CONTRACTOR. WIRING BY CONTROLS CONNECTIONS BY OTHERS. * ELECTRICAL CONTRACTOR EQUIPMENT BY_ MECHANICAL > CONTRACTOR - WIRING BY ELECTRICAL CONTRACTOR - FINAL CONNECTIONS INSIDE EQUIPMENT TO BE MADE BY MECHANICAL CONTRACTOR. EQUIPMENT BY MECHANICAL CONTRACTOR. SEE MECHANICAL AND ARCHITECTURAL PLANS FOR LOCATION

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION DETAIL SCALE: N.T.S.

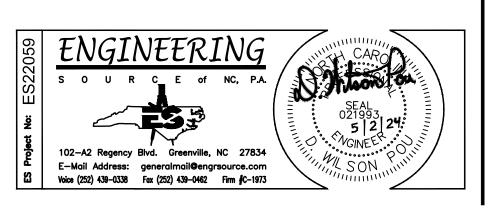
OF ALL EQUIPMENT.



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



DUCT CONSTRUCTION DETAIL
SCALE: NTS





THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THEY HAVE BEEN PREPARED FOR A SPECIFIC PROJECT AND SHALL NOT BE USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT. @-MHAWORKS 2022

NC Global Transpark Terminal Building: Pha 2860 Jetport Road Kinston, North Carolina

3

DATE

DESCRIPTION:

MECHANICAL PLAN

SHEET NAME:

PHASE: Construction Documents

ISSUE DATE: **05/02/2024**PROJECT #: **18056C**DRAWN BY: **DWP**

SHEET NUMBER

M 1.1

ELECTRICAL NOTES:

- 1. DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL PLANS.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO SHOW MINOR DETAILS AND EXACT LOCATIONS, DESIGN ADJUSTMENTS SHALL BE ANTICIPATED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- 3. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT NEC/NFPA 70. CONTRACTOR SHALL NOTIFY ENGINEER REGARDING ANY CODE DISCREPANCIES SHOWN ON PLAN. ANY PERMIT OR INSPECTION FEES ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 4. CONTRACTOR SHALL INSTALL, GROUND AND BOND SYSTEM PER THE CURRENT NEC.
- 5. CONTRACTOR SHALL NOT PUT MORE THAN SIX (6) DUPLEX RECEPTACLES ON ANY GIVEN 1P-20A CIRCUIT UNLESS SHOWN OTHERWISE.
- 6. MINIMUM WIRE SIZE SHALL BE #12 AWG., MINIMUM CONDUIT SIZE SHALL BE 3/4".
- 7. CONTRACTOR SHALL COORDINATE TELEPHONE AND DATA OUTLETS REQUIRED WITH OWNER PRIOR TO GYP. BOARD BEING INSTALLED.
- 8. HALLWAY AND MAINTENANCE RECEPTACLES SHALL NOT BE CIRCUITED WITH OFFICE OR OTHER GENERAL PURPOSE RECEPTACLES.
- 9. ELECTRICAL CONTRACTOR SHALL PROVIDE HACR RATED CIRCUIT BREAKERS ON ALL HVAC EQUIPMENT.
- 10. CONDUCTORS SHALL BE TYPE THHN, THWN, OR THW. BRANCH CIRCUIT CONDUCTOR SHALL NOT BE SMALLER THAN No. 12 AWG., EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. HOME RUNS ORIGINATING MORE THAN 80' AT 120V FROM PANEL LOCATION SHALL BE No. 10 AWG MINIMUM SIZE. WIRES No. 10 AWG AND SMALLER SHALL BE SOLID; WIRES No. 8 AWG AND LARGER SHALL BE STRANDED. PROVISIONS OF SECTION 210-5 COLOR CODE, NEC, SHALL BE STRICTLY COMPLIED WITH AND BE CONSISTENT THROUGHOUT ENTIRE SYSTEM.
- 11. ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH CURRENT NEC TABLE 250-122. HASHMARK FOR GROUNDING CONDUCTOR IS NOT INDICATED ON THESE DRAWINGS. RACEWAY SHALL NOT BE USED AS EQUIPMENT GROUND.
- 12. IN ADDITION TO MECHANICAL FASTENING TO CEILING TRACK, SUPPORT LIGHT FIXTURES AT EACH CORNER INDEPENDENTLY OF SUSPENDED CEILING WITH 12 GAUGE WIRE. CONNECT TO STRUCTURAL SYSTEM OF BUILDING.
- 13. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT SHALL HAVE A PULL WIRE.
- 14. SERVICE ENTRANCE CONDUCTORS SHALL BE IN CONDUIT (RIGID OR PVC). EXTERIOR CONDUIT EXPOSED ABOVE SLAB SHALL BE RIGID. INTERIOR CONDUIT EXPOSED SHALL BE ELECTRICAL METALLIC TUBING (EMT). EMT SHALL BE COLD-ROLLED STEEL TUBING W/A COATING ON THE OUTSIDE AND PROTECTED ON THE INSIDE BY A ZINC, ENAMEL, OR EQUIVALENT CORROSION RESISTANT COATING AND CONFORMING TO THE REQUIREMENTS OF ANSI C 80.3-1996 OR LATER EDITION. ALL UNDERGROUND CONDUIT SHALL BE UL LISTED SCHD 40 PVC CONFORMING TO ARTICLES 352 & 300 OF THE NEC. WHERE SCHD 40 PVC IS INSTALLED BELOW GRADE OR UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., SHALL BE OF RIGID STEEL AND SHALL CONTINUE AS RIGID STEEL TO THE CABINET, EQUIPMENT, ETC. FEEDER CIRCUITS SHALL BE IN CONDUIT. E.C. MAY USE M.C. CABLE FOR CONCEALED BRANCH CIRCUITS AND LIQUID TIGHT FOR CONNECTIONS FOR EXTERIOR EQUIPMENT CONNECTIONS TO SAFETY SWITCHES.
- 15. ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER.
- 16. ALL 1P-20A CIRCUITS SHALL BE 2-#12 & 1-#12G IN 3/4"C U.N.O.
- 17. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL VOLUMES OF THE NCSBC, INSPECTORS HAVING JURISDICTION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- 18. EACH PIECE OF ELECTRICAL GEAR, EQUIPMENT, ETC., SHALL BEAR A THIRD PARTY TESTING LABEL APPROVED BY CITY OF RALEIGH. ("UL" OR OTHER)
- 19. METAL ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT ELECTRICAL ITEMS.
- 20. ALL EMERGENCY AND EXIT LIGHTS SHALL BE CONNECTED TO THE UNINTERRUPTED SIDE OF THE LOCAL LIGHTING CIRCUIT.
- 21. INSTALL ENGRAVED PHENOLIC LABELS ON ALL ELECTRICAL GEAR, DISCONNECTS, ETC. FASTEN WITH SCREW FASTENERS.
- 22. E.C. SHALL INSTALL HEAVY DUTY NEMA-1 DISCONNECTS AT ALL INTERIOR LOCATIONS INDICATED AND HEAVY DUTY NEMA-3R DISCONNECTS AT ALL EXTERIOR LOCATIONS INDICATED ON THESE DRAWINGS.
- 23. VERIFY WITH OWNER LOCATION/TYPE OF ALL FIXTURES, PANEL BOXES, OUTLET PLACEMENT, ETC. BY HOLDING AN ELECTRICAL WALKTHROUGH ON THE BUILDING SITE ONCE FRAMING IS COMPLETED.
- 24. ELECTRICAL BOXES INSTALLED IN U.L. RATED WALLS SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY OTHER ELECTRICAL BOX IN THAT WALL.
- 25. LIGHTING SWITCHES, RECEPTACLES AND/OR DATA OUTLETS SHALL NOT BE MOUNTED BACK TO BACK IN ANY WALL.
- 26. ALL RECEPTACLES LOCATED IN KITCHEN OR WITH IN 6'-0" FROM A SINK SHALL BE GFCI RATED.
- 27. E.C. SHALL INSTALL COMPLY WITH ANSI A117.1 FOR OUTLET AND CONTROL SWITCH MOUNTING HEIGHTS FOR ADA

LP D	EM/	AND	C	Α	LC	S	,
LIGHTING	0.28	KVAX	125	%	=	0.4	KVA
RECEPTACTOTAL 1ST REMAIN	10.00	KVA KVAX KVAX		% %	= =		KVA KVA
MOTORS	0.00	KVAX	100	%	=	0.0	KVA
A/C	0.00	KVAX	100	%	=	0.0	KVA
HEATING	0.00	KVAX	100	%	=	0.0	KVA
FUTURE		KVAX	100	%	=	0.0	KVA
KITCHEN	0.00	KVAX	65	%	=	0.0	KVA
MISCELLANEOUS	6.45	KVAX	100	%	=	6.5	KVA
TOTAL =	79.1	amps			=	28.5	KVA

M DEMAND CALCS

1ST 10.00 KVAX 100 % =

REMAIN 27.40 KVAX 50 % =

0.00 KVAX 100 % =

95.74 KVAX 100 % =

0.00 KVAX 100 % =

0.00 KVAX 65 % =

388.9 amps

KVAX 100 % =

6.41 KVAX 125 % = **8.0 KVA**

10.0 KVA

13.7 KVA

0.0 KVA

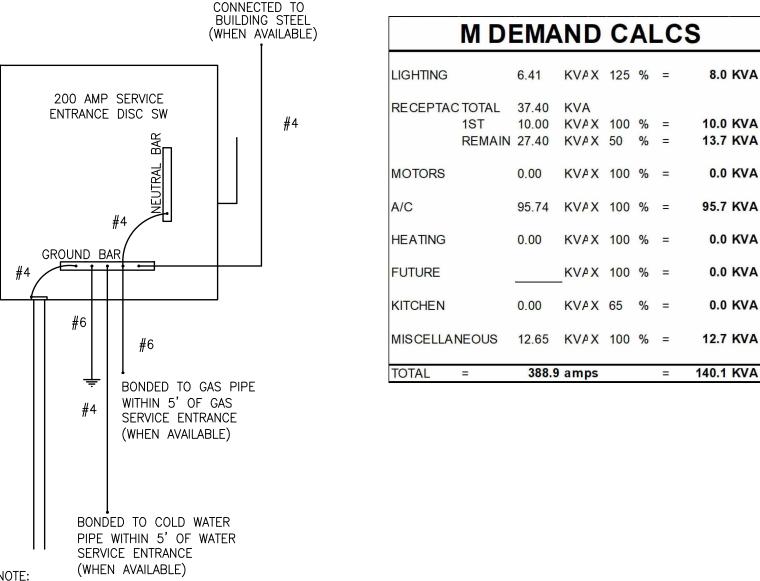
95.7 KVA

0.0 KVA

0.0 KVA

0.0 KVA

= 140.1 KVA



1. THIS DRAWING ONLY SHOWS GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS. ALL CONDUITS SHALL ALSO HAVE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NEC AND DRAWINGS. 2. BONDING OF GAS PIPE IS TO EQUALIZE POTENTIAL OF GAS PIPE ONLY. AS REQ'D BY N.E.C. &

200A SERVICE ENTRANCE GROUNDING DETAIL

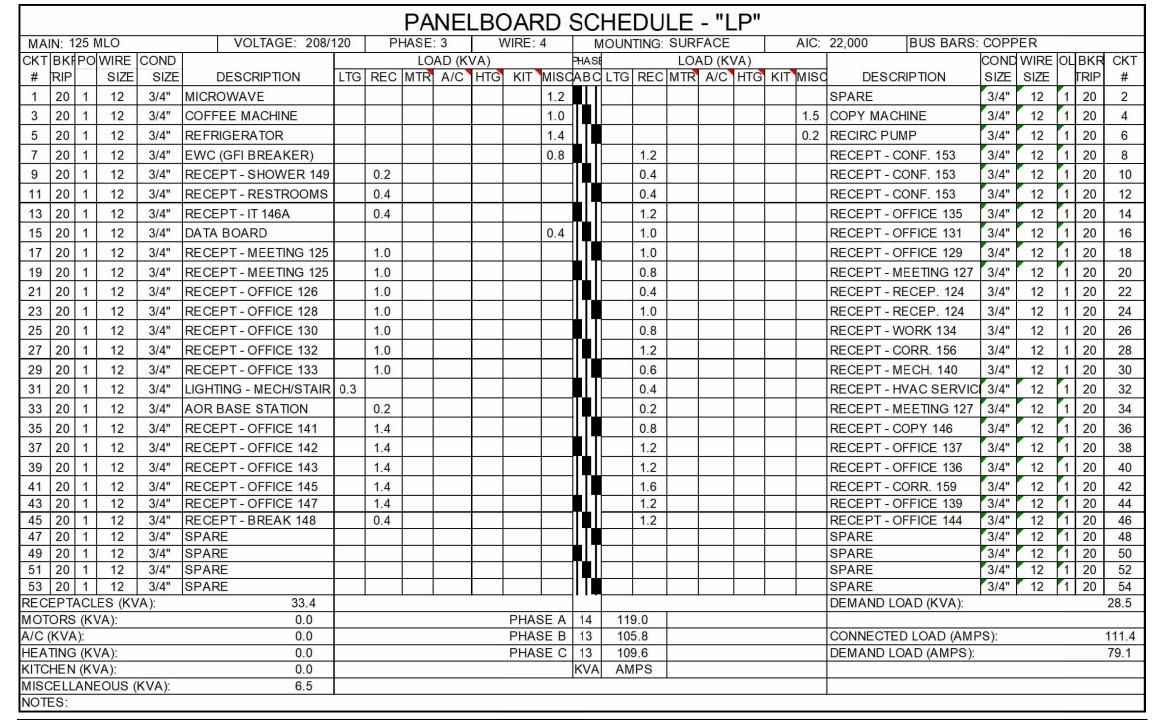
VOLUME VI OF NCBC.

ELECTRICAL RISER NOTES:

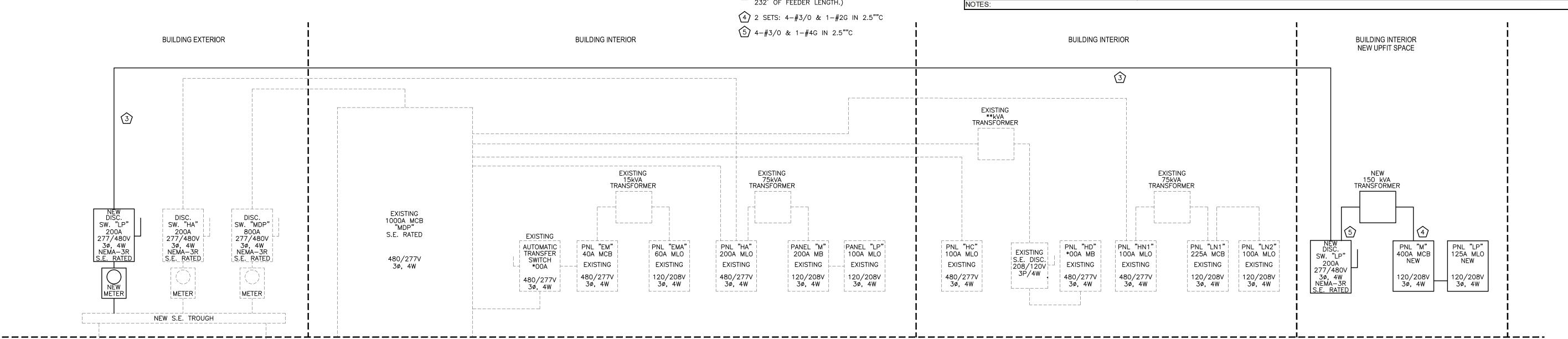
COORDINATE UNDERGROUND/OVERHEAD SERVICE WITH UTILITY CO. PROVIDE ALL CONDUIT, WIRING, LABOR, AND/OR OTHER WORK AS REQUIRED BY UTILITY CO.

(2) GROUND SERVICE ENTRANCE PER "SERVICE ENTRANCE GROUNDING DETAIL"

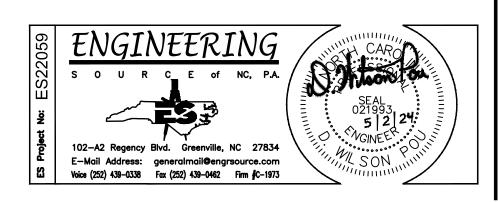
(3) 4-#4/0 & 1-#2G IN 2.5""C (APPROX 232' OF FEEDER LENGTH.)



MA	N: 4	00 N	1CB		VOLTAGE:	208/12)	PH	IASE:	3	\ \	VIRE:	4		MOU	ITING:	SURI	FACE			AIC:	22,000 BUS BARS:	COPF	PER		
CKT		PO	WIRE	COND	,					AD (K'				PHAS				AD (K					COND	WIRE	OL BK	CK
#	RIP		SIZE	SIZE	DESCRIPTION	L	TG F	REC	MTR	A/C	HTG	KIT	MISC	ABC	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	SIZE	SIZE	TRIF	#
1	20	1	12	3/4"	LIGHTING - INTERIO	R 1	.7								1.7							LIGHTING - CORRIDOR	3/4"	12	1 20	2
3	20	1	12	3/4"	LIGHTING - INTERIO	R 1	.7						0.1		1.0						0.1	LIGHTING - LOBBY/RR	3/4"	12	1 20	4
5	20	1	12	3/4"	SPARE																3.0	EWH	3/4"	12	1 20	6
7	60	2	4	1 1/4"	HP-2					3.7											3.0		3/4"	12	1 20	8
9										3.7						2.0						UH-A	3/4"	12	1 20	10
11	60	2	4	1 1/4"	HP-1					3.7						2.0						(VERIFY C/B WITH EQP)	3/4"	12	1 20	12
13										3.7								1.9				HP-5	3/4"	12	1 20	14
15	40	2	8	3/4"	AHU-3					3.7								1.9					3/4"	10	2 30	16
17										3.7								3.7				HP-4				18
19	50	3	6	1"						5.5								3.7					3/4"	10	2 30	20
21					AHU-2					5.5								1.1				HP-3				22
23										5.5								1.1					1 1/4"	4	2 60	24
25	50	3	6	1"						5.5								3.4								26
27					AHU-1					5.5								3.4				AHU-5	3/4"	12	2 15	28
29										5.5								3.4								30
31					SPACE													5.5					3/4"	10	3 30	32
33					SPACE													5.5				AHU-4				34
35					SPACE													5.5								36
37					SPACE										0.3	12.0	0.0	0.0	0.0	0.0	2.0		1 1/2"	1	3 125	38
39					SPACE										0.0	9.8	0.0	0.0	0.0	0.0	2.9	PANEL LP				40
41					SPACE										0.0	11.6	0.0	0.0	0.0	0.0	1.6					42
	TINC	•					.5 (0.0	0.0	55.6	0.0	0.0	0.1		2.9	37.4	0.0	40.2	0.0	0.0	12.6	CONNECTED LOAD (KVA):			152.2
			ES (KV	/A):		7.4																DEMAND LOAD (KVA):				140.1
	ORS		/ A):			0.0						PHAS				7.6						CONNECTED LOSS (CON	101			100
	KVA TING	,	/			5.7						PHAS		48 50		0.4						CONNECTED LOAD (AMPS):	S):			422.4
	HEN	,	,			0.0						PHAS	DE C	KVA	The state of the s							DEMAND LOAD (AMPS): 388.9				
		•	OUS (KVA):		2.7								1 1 1	1 / 11	0										
	ES:																					ı				



POWER RISER DIAGRAM SCALE: 1/8"=1'-0"





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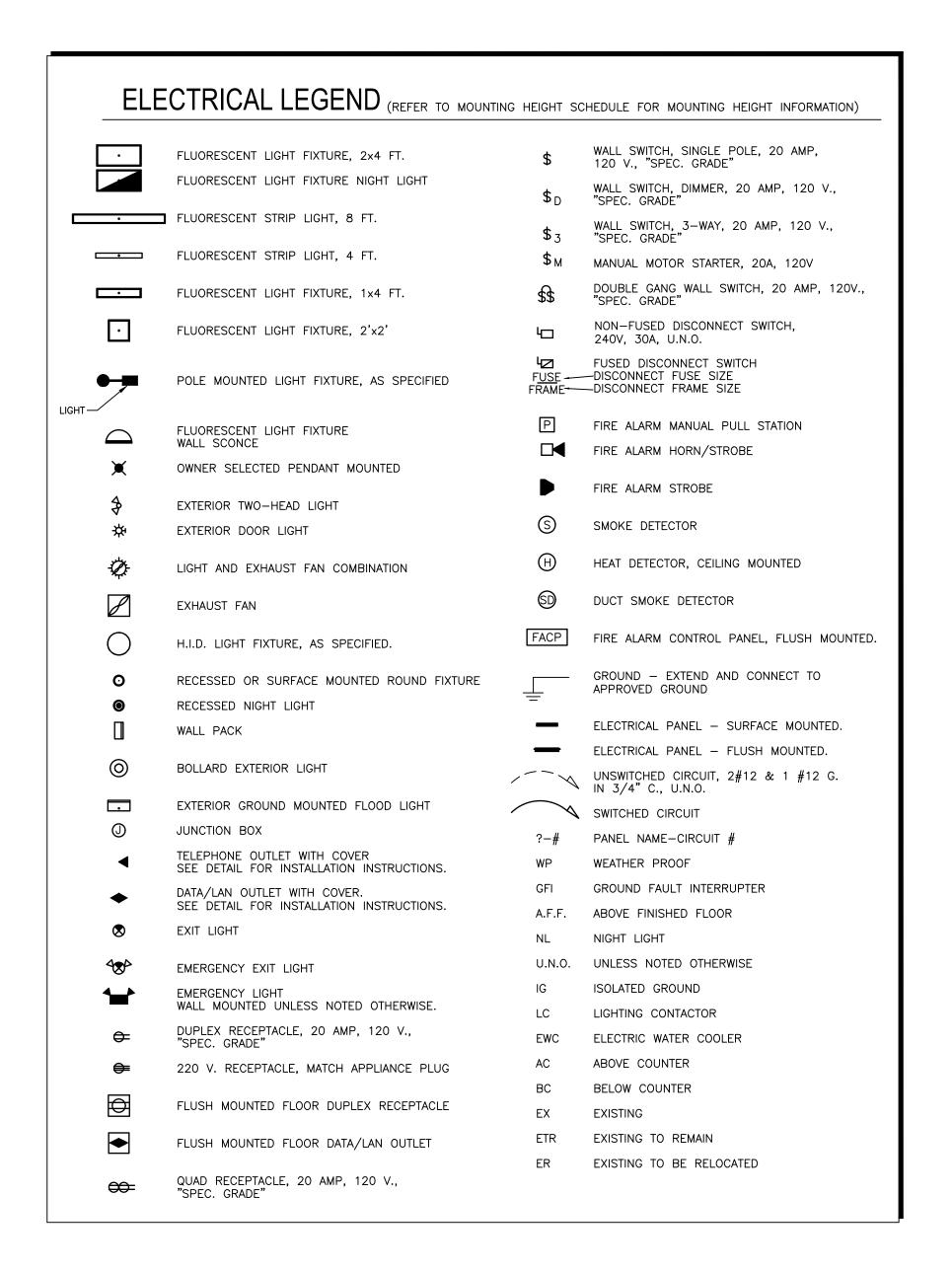
RISER PLAN

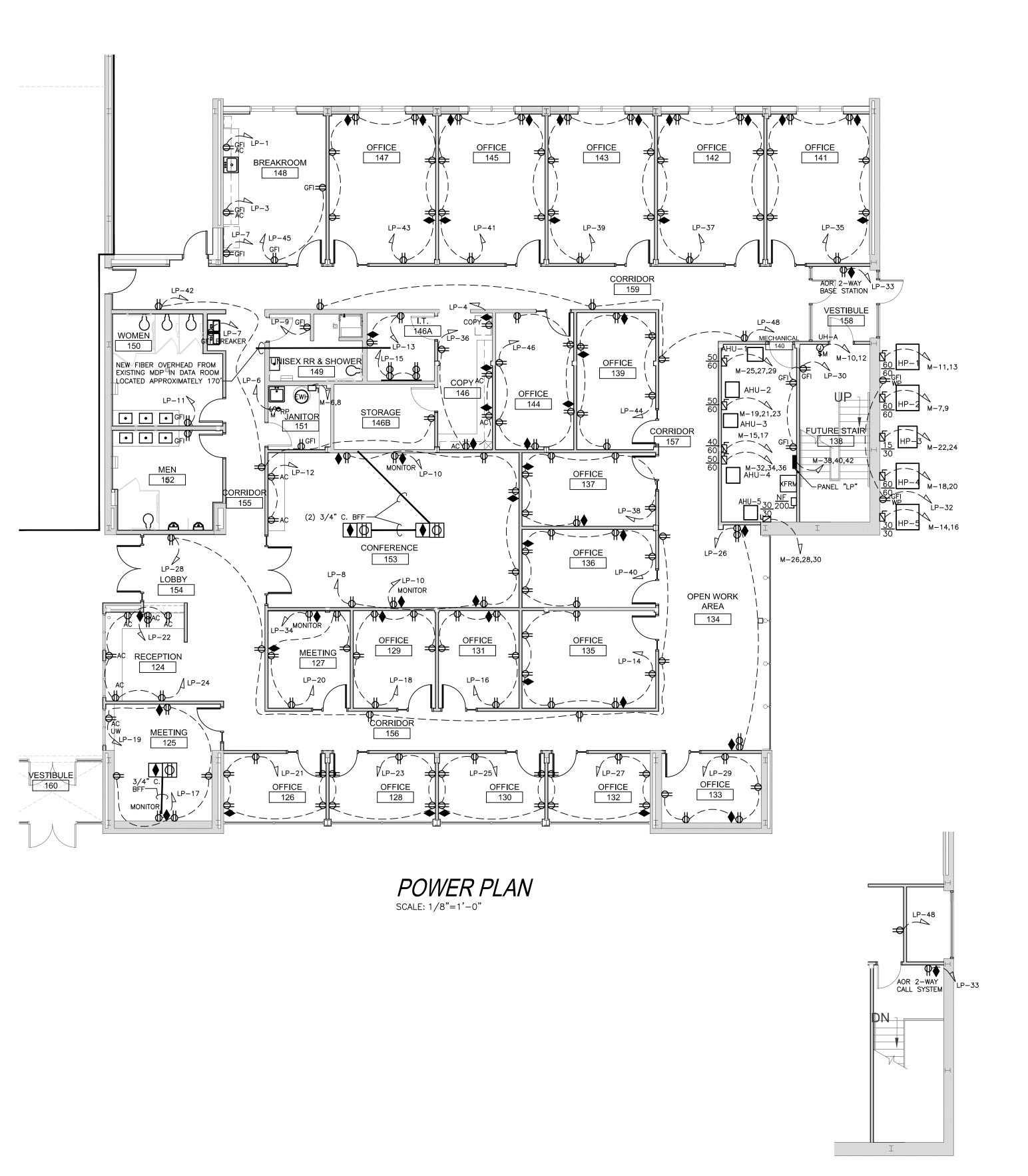
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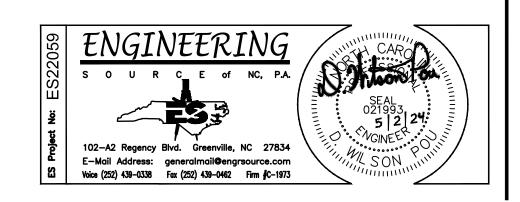
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> SHEET NUMBER E0.1





2ND FLOOR POWER PLAN SCALE: 1/8"=1'-0"





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POWER PLAN

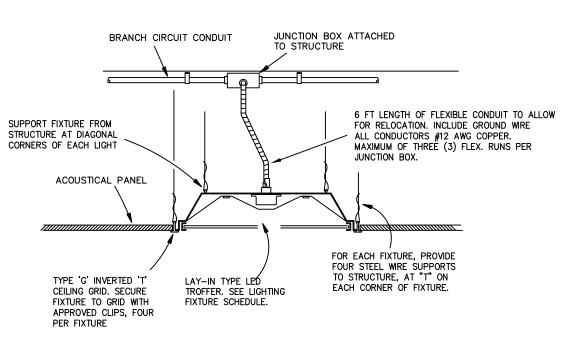
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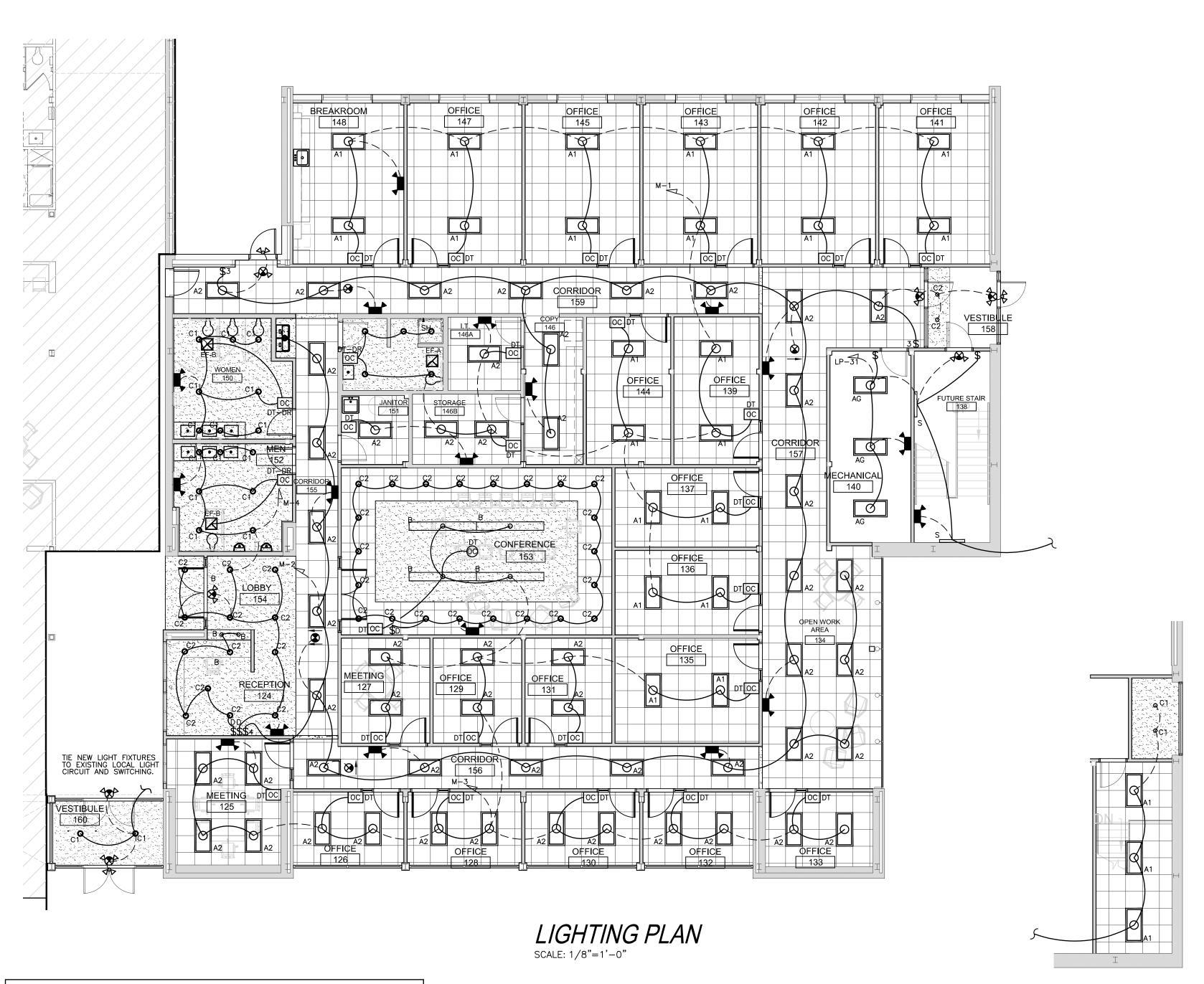
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SHEET NUMBER
E1.1

LI	GHT FIXTURE S	SCH	ED	ULE	=
TYPE	DESCRIPTION	LAMPS	VOLTS	WATTS	B. F.
A1	2'X4' LED LAY IN RECESSED ARCHITECTURAL CURVED DEEP CENTER WITH NO DIMMING. PROVIDE WILLIAMS MODEL # AT2-2-4-L70-8-40-D-DRV-UNV	LED	UNV	63	
A2	2'X4' LED LAY IN RECESSED ARCHITECTURAL CURVED DEEP CENTER WITH NO DIMMING. PROVIDE WILLIAMS MODEL # AT2-2-4-L55-8-40-D-DRV-UNV	LED	UNV	48	
AG	2'X4' LED SURFACE MOUNT ARCHITECTURAL CURVED DEEP CENTER WITH NO DIMMING. PROVIDE WILLIAMS MODEL # ATS2-2-4-L55-8-40-D-DRV-UNV	LED	UNV	48	
В	OWNER SELECTED LED DIMMABLE PENDANT MOUNTED ARCHITECTURAL LIGHT FIXTURE. 100 WATT MAX.	LED	UNV	100	
C1	4.5" LED DOWNLIGHT WITH DIMMING. PROVIDE WILLIAMS MODEL # 4DR-TL-L40-8-40-W-DIM-ARCH-UNV	LED	UNV	38	
C2	2" LED DOWNLIGHT WITH DIMMING. PROVIDE WILLIAMS MODEL # 2DR-L9-8-40-DIM-M-ARCH-UNV	LED	UNV	10	
SH	UL LISTED WET LOCATION LED SHOWER DOWNLIGHT	LED	UNV	30	
S	4' LED STRIP LIGHT WITH FROSTED LENS. 6000 LUMEN.	LED	UNV	40	
	CEILING OR WALL MOUNTED LED EXIT LIGHT CONFORMING TO NFPA 101 STANDARDS, w/ BATTERY & SOLID STATE CHARGER, SELF DIAGNOSTICS w/ A TEST CYCLE EVERY 30 DAYS MINIMUM, SELF-CONTAINED, DOUBLE OR SINGLE WHITE FACE/BODY, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS, TEST SWITCH, & 90 MIN. EMERGENCY RUN TIME; EXIT SIGN SHALL HAVE 5 YEAR WARRANTY. PROVIDE EXITRONIX VEX-U-BP-WB-WH-G2 OR WILLIAMS #: EXIT-R-EM-WHT-SDT OR HUBBELL #: CER50	RED LED	UNV 277/ 6V	3.5W	N/A
~	AUTOMATIC, SELF-CONTAINED, SELF DIAGNOSTIC, MAINTENANCE FREE 2-HEAD EMERGENCY LIGHT. UL 924 LISTED AND NFPA 101 COMPLIANT, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS. SELF DIAGNOSTICS SHALL INCLUDE CONTINUOS SELF CHECKS AND 30 MINUTE FULL LOAD TEST WITH CHARGER OFF EVERY 30 DAYS. PROVIDE EXITRONIX #: NFT-W-G2 OR WILLIAMS #: EMER/LED-WHT-HL-SDT OR HUBBELL #: CU2SD	2-10W	UNV 277/ 6V	20W	N/A
484	CEILING OR WALL MOUNTED LED EXIT & 2—HEAD EMERGENCY LIGHT CONFORMING TO NFPA 101 STANDARDS, w/ BATTERY & SOLID STATE CHARGER, SELF DIAGNOSTICS w/ A TEST CYCLE EVERY 30 DAYS MINIMUM, SELF—CONTAINED, DOUBLE OR SINGLE WHITE FACE/BODY, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS, TEST SWITCH, & 90 MIN. EMERGENCY RUN TIME, EXIT LIGHT SHALL CONTINUE TO OPERATE FOR 24 HOURS FOLLOWING POWER OUTAGE; EXIT SIGN SHALL HAVE 5 YEAR WARRANTY. PROVIDE EXITRONIX #: VLED—U—WH—EL90—G2 OR HUBBELL #: CCRSD OR WILLIAMS #: EXIT/EM/LED—SF—R—WHT—HL—SDT	RED LED 2-10W HALOGEN	UNV 277/ 6V	20	N/A
46	WALL MOUNTED SCONCE LIGHT WITH PREMIUM MARINE GRADE DIE—CAST ALUMINUM HOUSING AND POLYCARBONATE GASKETED LENS TO WITHSTAND EXTREME WEATHER CONDITIONS. MOUNT ABOVE EXTERIOR DOOR. EMERGENCY LIGHT SHALL CONFORM WITH NFPA 101 STANDARDS AND NEC—700.16. PROVIDE EXITRONIX #: TRL—ACEM—BR OR WILLIAMS #: EMER/DECO—DBR—LT OR HUBBELL #: CUWZ—PC	2-6W	UNV 277/6VDC	12W	-



LED TROFFER INSTALLATION

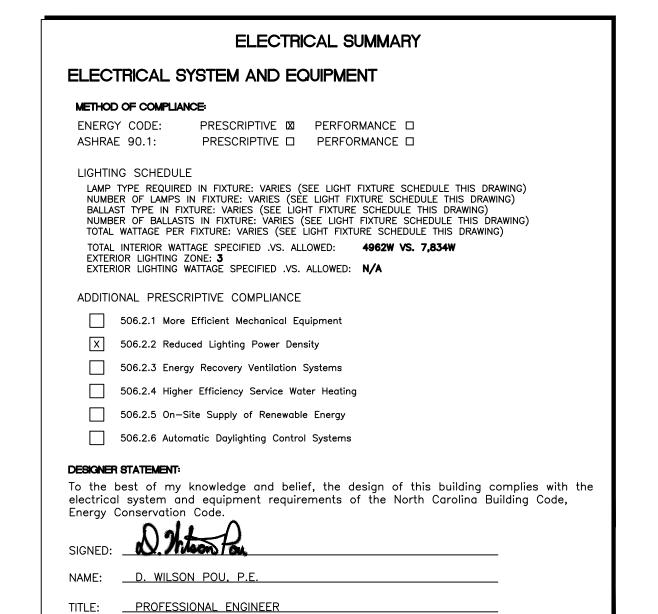


OC. SENSOR SCHEDULE

TYPE	DESCRIPTION
PIR	PASSIVE INFRARED -WALL MOUNT - WATT STOPPER #PW-100 - HUBBLE #LH-IR - LEVITON #ODW-IR -CEILING MOUNT - WATT STOPPER #CI-305 W/BZ-150 PPAK - HUBBLE OMNI-IR-UVPP - LEVITON #ODC15-IDW
US	ULTRASONIC -WALL MOUNT - WATT STOPPER #UW-100 - HUBBLE #LH-US - LEVITON #ODW12-UDW -CEILING MOUNT - WATT STOPPER #UT-305 W/BZ-150 PPAK - HUBBLE #OMNI-US-UVPP - LEVITON #ODC10-UDW
DT DT-DR	DUAL TECHNOLOGY -WALL MOUNT - WATT STOPPER #DW-100 - HUBBLE #LH-MT - LEVITON #ODW12-MDW -WALL MOUNT DUAL RELAY - WATT STOPPER #DW-200 - HUBBLE #LH-MT-D2 - LEVITON #OSSMT-MDW-DR -CEILING MOUNT - WATT STOPPER #DT-305 W/BZ-150 PPAK - HUBBLE #OMNI-DT-UVPP - LEVITON #ODC10-MDW -CEILING MOUNT DUAL RELAY - WATT STOPPER #DT-305 W/(2) BZ-150 PPAK - HUBBLE #OMNI-DT- w/ (2) UVPP - LEVITON #02C15-IDW
TIME	PUSH BUTTON TIMER -WALL MOUNT - WATT STOPPER #TS-400 - HUBBLE #TD-200 - LEVITON #TS300-DW

* ALL OCCUPANCY SENSORS SPECIFICED USE 120/277V AC POWER. EQUALS ACCEPTED, MAKE AND MODEL USED TO SET STANDARD OF PERFORMANCE & QUALITY.

* ALL OCCUPANCY SENSORS ARE INSTALLED AND CIRCUITED PER PLANS.



* (INTERIOR WATTS ALLOWED COMPLY WITH SECTION 506 REDUCED LIGHTING DENSITY)
** .95 W/SQFT FOR 8247 SQFT BUSINESS OFFICE **

2ND FLOOR LIGHTING PLAN SCALE: 1/8"=1'-0"

	l	Π.
DEVICE	MT HEIGHT	-
PANEL BOARDS	6'-6" AFF	1
TOGGLE SWITCH (GYPBOARD)	4'-0" AFF	
TOGGLE SWITCH (MASONRY)	4'-0" AFF	1
RECEPTACLES	1'-6" AFF	
RECEPTACLES (AT BASE CABINETS)	7" ACT	
VOICE/DATA OUTLETS	1'-6" AFF	
FIRE ALARM PULL STATIONS	4'-6" AFF	٦
EMERGENCY LIGHTS	12" BFC	٦
STROBE/HORNS	12" BFC OR 96" AFF MAX	٦
REMOTE ANNUNCIATOR PANEL	4'-8" AFF	
THERMOSTATS	4'-0" AFF	
MANUAL SHUTDOWN SWITCHES (HVAC)	4'-0" AFF	

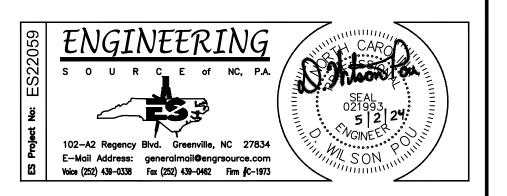
MANUAL SHUTDOWN SWITCHES (HVAC) 4'-0" AFF ©

NOTES:

1) TYPICAL MOUNTING HEIGHTS ARE LISTED U.N.O.

2) BFC=BELOW FINISHED CEILING, ACT=ABOVE CABINET TOP

3) THE ABOVE LISTED EQUIPMENT IS SHOWN FOR CLARITY OF MOUNTING HEIGHT ONLY. ALL DEVICES MAY NOT BE USED ON THIS PROJECT OR SHOWN ON THESE DRAWINGS.





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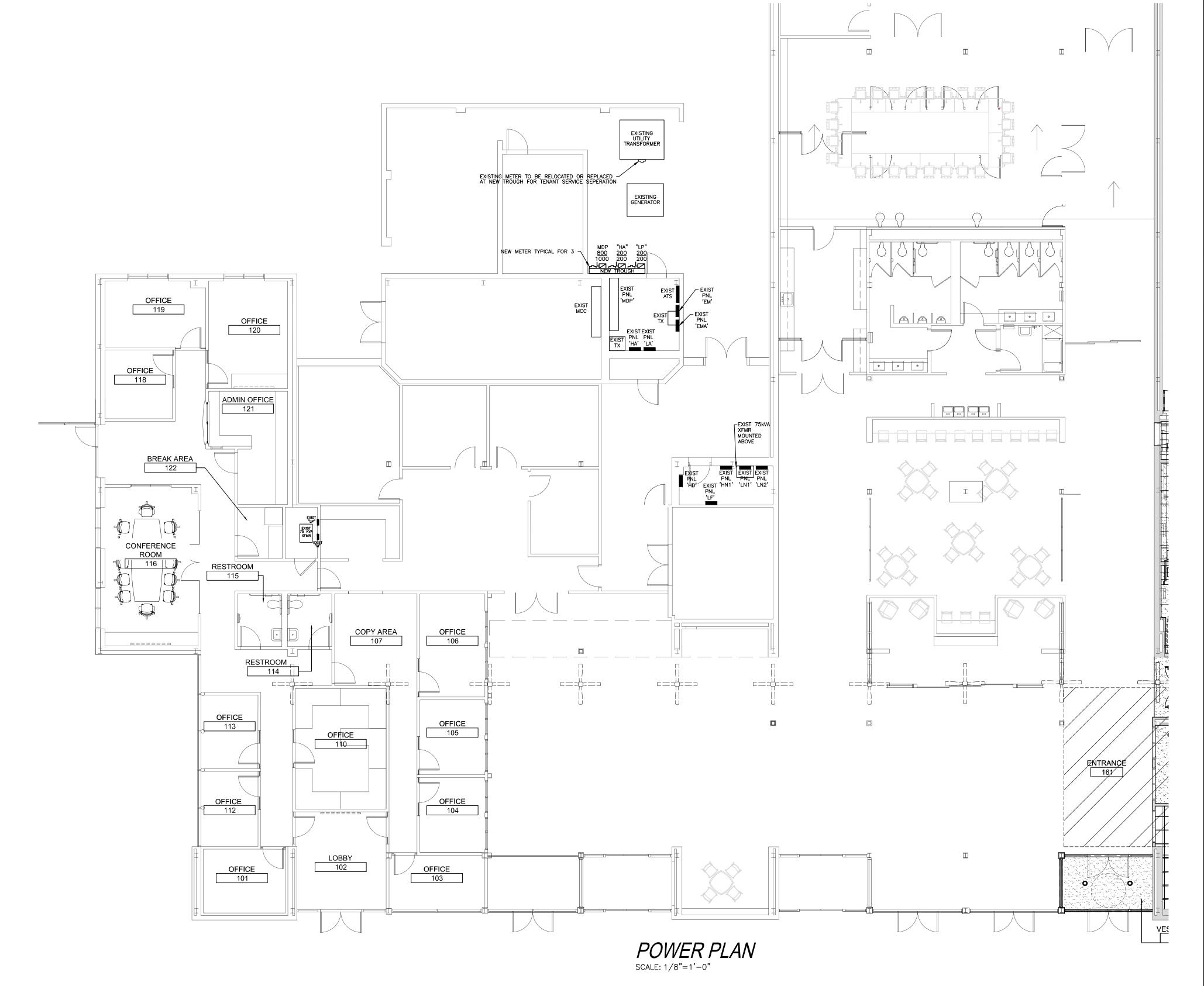
LIGHTING PLAN

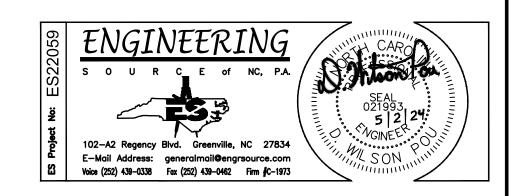
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POWER PLAN

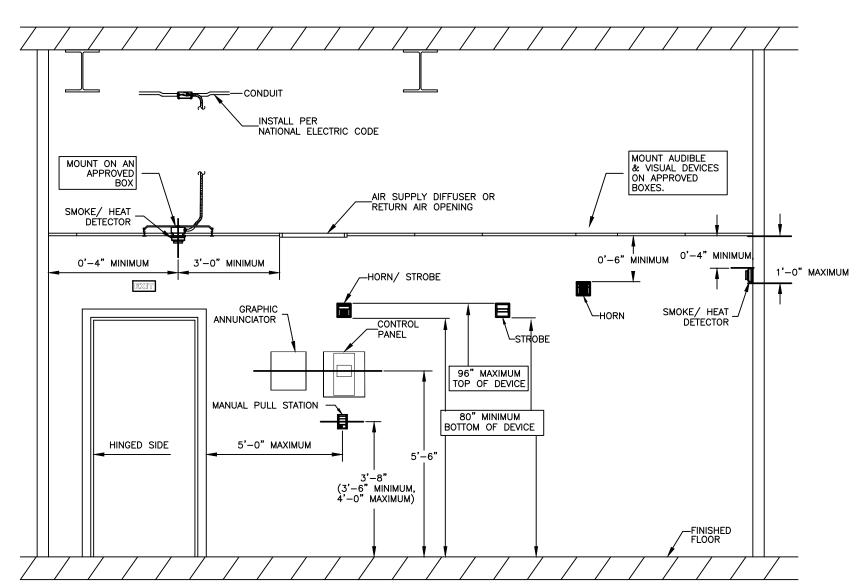
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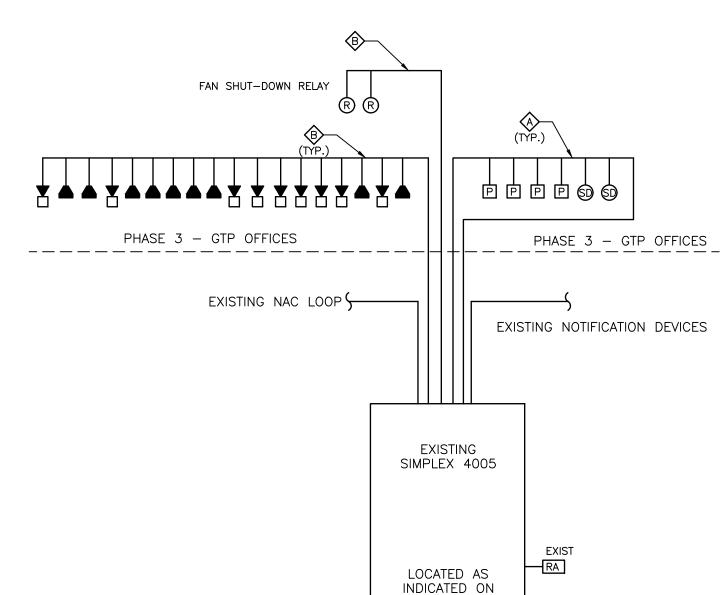
ISSUE DATE: **05/02/2024**PROJECT #: **18056C**DRAWN BY: **JLB**

SHEET NUMBER E1.3

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



FIRE ALARM DEVICE MOUNTING DETAIL SCALE: N.T.S.



FIRE ALARM RISER SCALE: NTS

DRAWINGS

FIRE ALARM INSTALLATION NOTES:

1. FIRE ALARM SHALL BE INSTALLED BY A MANUFACTURER APPROVED INSTALLATION COMPANY.

2. E.C. OR E.C.'S REPRESENTATIVE SHALL PERFORM THOROUGH TRAINING WITH OWNER'S REPRESENTATIVES PRIOR TO OWNER OCCUPANCY OF THE BUILDING.

3. FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE TO ALL APPLICABLE STATE AND LOCAL LAWS AND IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 72.

4. ALARM SHALL HAVE A SOUND LEVEL MEETING THE dB REQUIREMENTS OF 907.6.2.1.1 OF THE NC FIRE PREVENTION CODE AND NOT LESS THAN 20 dB ABOVE AMBIENT NOISE LEVELS. (TYPICALLY, 55 dB AMBIENT NOISE PER BUSINESS/EDUCATION OCCUPANCY. ADJUST FOR NOISY ENVIRONMENTS).

5. ANY WIRING INSTALLED IN RETURN AIR PLENUM SHALL BE EITHER PLENUM-RATED CABLE OR IN CONDUIT. WIRING INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.

6. FIRE ALARM CONTRACTOR SHALL PROVIDE A FULL SET OF SHOP DRAWINGS, INCLUDING BATTERY CALCULATIONS, WIRING DIAGRAMS, AND DEVICE PRODUCT DATA TO THE AHJ FOR REVIEW AND APPROVAL PRIOR TO STARTING ROUGH-INS.

7. E.C. SHALL PROVIDE FRAMED BUILDING LAYOUT NEXT TO REMOTE ANNUNCIATOR. BUILDING LAYOUT SHALL SHOW ALL FIRE ALARM DEVICE LOCATIONS AND THEIR RESPECTIVE ADDRESSES.

8. FIRE ALARM SYSTEM SHALL INTERRUPT & SILENCE ANY GYM, AUDITORIUM OR CAFETERIA LOCAL PA SYSTEMS UPON ALARM

9. PROVIDE TAMPER DEVICE AT SPRINKLER SYSTEM HOTBOX, IF APPLICABLE. COOR'D HOTBOX LOCATION WITH CIVIL SITE PLAN.

10. E.C. SHALL BE RESPONSIBLE FOR DEMOLISHING EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED DEVICES, WIRING, AND CONDUIT (AS REQUIRED) IF PLANS INDICATE A NEW FIRE ALARM SYSTEM AND DEVICES TO BE INSTALLED IN AN EXISTING AREA. COORDINATE ANY SHUT-DOWNS WITH OWNER.

11. FIRE ALARM SYSTEM SHALL BE NOTIFIER, GAMEWELL, SILENT KNIGHT, OR EQUAL.

12. FA CONTRACTOR SHALL INCLUDE TESTING FOR THE FIRST RESPONDER EMERGENCY BDA SYSTEM AND INCLUDE AN ALLOWANCE OF \$35,000 TO BE USED FOR THE BDA SYSTEM IF IT IS REQUIRED. FIRE ALARM SYMBOL LEGEND (SEE MOUNTING HEIGHT SCHEDULE FOR MOUNTING

INFORMATION UNLESS NOTED OTHERWISE)

P FIRE ALARM MANUAL PULL STATION

FIRE ALARM HORN/STROBE

VOICE NOTIFICATION FIRE ALARM/STROBE

(SP) VOICE NOTIFICATION SPEAKER

FIRE ALARM STROBE S SMOKE DETECTOR

H HEAT DETECTOR, CEILING MOUNTED

FACP FIRE ALARM CONTROL PANEL, FLUSH MOUNTED.

RA REMOTE ANNUNICATOR PANEL, FLUSH MOUNTED DUCT MOUNTED SMOKE DETECTOR, PROVIDED AND WIRED BY E.C., INSTALLED BY M.C.

R SHUT DOWN RELAY PROVIDED AND AND WIRED BY E.C.

DUCT MOUNTED SMOKE DETECTOR REMOTE INDICATOR LIGHT MOUNTED IN CEILING PROVIDED AND INSTALLED BY E.C., LABEL ACCORDING TO MECHANICAL UNIT SERVED.

FSPRINKLER RISER WATER FLOW SENSOR. PROVIDED & WIRED BY E.C., INSTALLED BY SPRINKLER CONTRACTOR.

SPRINKLER RISER TAMPER SWITCH. PROVIDED AND WIRED BY E.C. INSTALLED BY SPRINKLER CONTRACTOR.

SPRINKLER RISER WATER VALVE SHUT-OFF SENSOR. PROVIDED & WIRED BY E.C., INSTALLED BY SPRINKLER CONTRACTOR. \bigcirc

MONITOR MODULE

H KITCHEN HOOD FIRE SUPPRESSION SYSTEM

AREA OF RESCUE ASSISTANCE BASE STATION WITH VISUAL LOCATION INDICATOR. RATH 2500—205FMC (OR EQUAL)

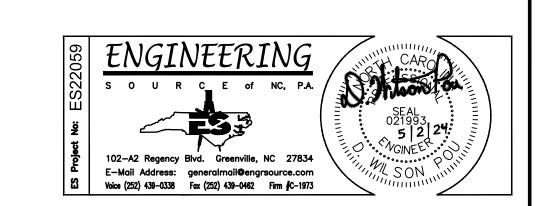
AREA OF RESCUE ASSISTANCE 2-WAY COMMUNICATION REMOTE STATION. RATH 2100 FLUSH MTD (OR EQUAL)

MAGNETIC DOOR HOLD OPEN DEVICE (POE)

CO CARBON MON-OXIDE SENSOR

PCG CLEAR PROTECTIVE POLYCARB GUARD

FIRE ALARM		SYSTEM ACTION																	
SYSTEM ACTION MATRIX	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE ALL VISIBLE EVACUATION SIGNALS	DISPLAY / PRINT CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	FAN SHUT DOWN (UNIVERSAL)	MUSIC & SPECIALTY LTG SHUT DOWN	DAMPER SHUT DOWN	RECALL ELEVATOR TO LOWEST SAFE FLOOR	SHUNT ALL GAS & POWER UNDER HOOD	COMMENTS/REMARKS
MANUAL ALARM STATION	Х	Х					Х	X	X	X	X			Х	X	Х			
SMOKE SENSOR / DETECTOR	Х	Х					X	X	X	Х	Х			Х	Х	Х			
DUCT SENSOR / DETECTOR			X	Х			Х	Х	X	Х	Х			Х	Х	Х			
ELEVATOR SMOKE SENSORS (SHAFT & LOBBIES)	Х	Х					Х	Х	Х	Х	X			Х	Х	Х	Х		
KITCHEN HOOD SUPPRESSION SYS	Х	X					X	X	X	X	Х			X	Х	X		X	
WATERFLOW SWITCH	Х	Х					Х	Х	X	Х	X			Х	Х	Х			
TAMPER SWITCH			X	X			Х			Х		X							
POST INDICATOR VALVE SWITCH			X	X			Х			Х		X							
FIRE ALARM AC POWER FAILURE					Х	Х				Х			X						
FIRE ALARM SYSTEM LOW BATTERY					Х	X				X			X						
OPEN CIRCUIT					Х	X				X			Х						
GROUND FAULT					X	X				X			Х						
NOTIFICATION APPLIANCE CIRCUIT																			
WIRE-TO-WIRE SHORT					X	X				X									





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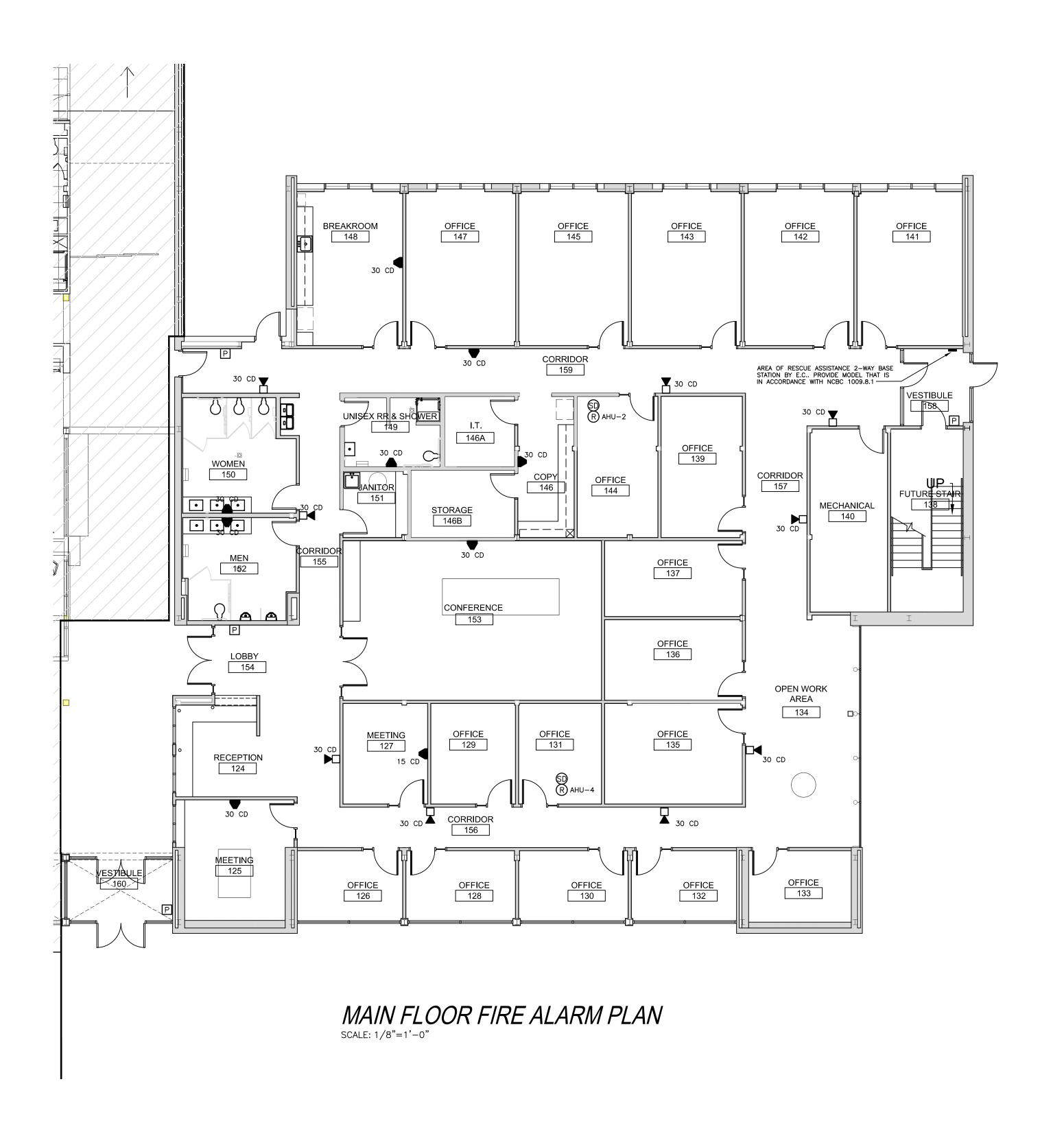
POWER PLAN

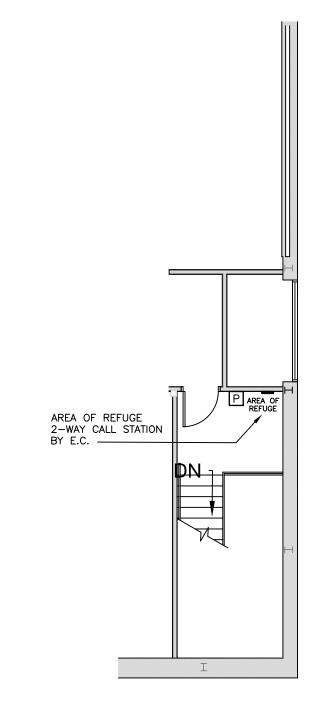
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2ND FLOOR FIRE ALARM PLAN SCALE: 1/8"=1'-0"



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DATE

DESCRIPTION:

POWER PLAN

SHEET NAME:

E-Mail Address: generalmail@engrsource.com

Voice (252) 439-0338 Fax (252) 439-0462 Firm #C-1973

PHASE:
Construction Documents

ISSUE DATE: 05/02/2024
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DRAWN BY: JLB

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