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ADDENDUM NUMBER FOUR

Date: June 04, 2024

Re: NC Global TransPark Terminal Building Phase 3 Renovation
Kinston, North Carolina 28504

The following items supersede the Bid drawings and specifications dated May 2, 2024, as well as Addenda Numbers 001, 002, and 003, in Construction Documents of bid documents and shall become a part of those bid documents with full force and effect, as though set forth therein. Bidders shall acknowledge receipt of this Addendum No. 004 in the appropriate place on the "Bid/Acceptance Form".

Addendum No. 004 also includes the following items:

1. Table of contents – 3 pages
2. Bid Form – 2 Pages
3. Alternates Form – 2 Pages
4. Alternates – 2 Pages
5. Quality Requirements – 1 Page
6. Thermal Insulation – 4 Pages
7. Aluminum-Framed Entrances and Storefront – 1 Page
8. Aluminum Windows – 5 Pages
9. Door Hardware –
10. Glazing – 1 Page
11. Wall Protection – 1 Page
12. Roller Window Shades – 1 Page
13. Quartz Agglomerate Countertops – 1 Page
14. Drawing Sheet T1-1 – 1 Page
15. Drawing Sheet T1-2 – 1 Page
16. Drawing Sheet A0-1 – 1 Page
17. Drawing Sheet A0-3 – 1 Page
18. Drawing Sheet A0-4 – 1 Page
19. Drawing Sheet A0-5 – 1 Page
20. Drawing Sheet A1-1 – 1 Page
21. Drawing Sheet A1-2 – 1 Page
22. Drawing Sheet A2-1 – 1 Page
23. Drawing Sheet A2-2 – 1 Page
24. Drawing Sheet A2-3 – 1 Page
25. Drawing Sheet A2-3.1 – 1 Page
26. Drawing Sheet A4-2 – 1 Page
27. Drawing Sheet A4-3 – 1 Page
28. Drawing Sheet A8-1 – 1 Page
29. Drawing Sheet A9-1 – 1 Page
30. Drawing Sheet PME-1.0 – 1 Page
31. Drawing Sheet M1.1 – 1 Page
32. Drawing Sheet E.0.1 – 1 Page
33. Drawing Sheet E1.1 – 1 Page
34. Drawing Sheet E1.3 – 1 Page

General Clarifications:

1. Original 1976 Terminal building drawings and 1993 renovation drawings provided for reference in link below. The Owner shared all the drawings within those sets that they have but some sheets are missing:
    - 1993_GTP Terminal Building Drawings.pdf
2. There are no allowances within this project scope.
3. Water line in Break Room 148 is for refrigerator ice maker.
4. The Owner will provide and maintain Builder's Risk insurance on the building while construction is ongoing. The Contractor is required to provide project Liability Insurance for the project scope. See AIA A201-2017 for more information.
5. The OH&P information listed on the Bid Form was used in the previous phases and shall remain in this scope.
6. Commercial casework standards to remain as currently specified.
7. There is no roof work included in scope. Demolition and new work extents as shown on drawings.
8. See updated mechanical drawing sheets. All existing mechanical equipment above this Phase 3 project area including catwalk, shall be demolished withing this scope to prepare for future mezzanine.
9. The East Entrance shall have a soffit on the ground floor and be open to above mezzanine. The second floor shall have a guardrail at the edge where open to below ground floor.
10. The large curtainwall being replaced was constructed in the same manner as part of Phase One. See South Elevation. Clarifications and revisions to details are included for the large curtainwall, storefront areas, and the alternate curtainwall.
11. Card readers and cameras will be coordinated/installed outside of this project scope. See electrical drawings for details to install card reader infrastructure.
12. Sounds batt insulation is to be installed per the specifications and wall types.
13. A typical detail has been added to show columns wrapped with gypsum board. The adjacency of walls to new and existing columns can be discussed during construction and whether the beam shall be within the stud wall. Most walls remain shown as 3-5/8" metal stud walls with 5/8" gypsum board on both sides.
14. All RFI's have been answered with general clarifications here or by drawing and/or specification clarifications.

Changes/Clarifications to the following Specification:

1. **Specifications Section "Table of Contents:**
    a) Updated revision dates for all sections revised within Addendum 004.
    b) Added specification section "04 43 23 – Alternates Form" and "08 44 13 – Rib-Glazed Aluminum Curtain Walls".

2. **Specifications Section "00 41 00 – Bid Form":**
    a) Added section "1.10 Bid Supplements"

3. **Specifications Section "00 43 23 – Alternates Form":**
    a) Added section.

4. **Specifications Section "01 23 00 – Alternates":**
    a) Added section.

5. **Specifications Section "01 40 00 – Quality Requirements":**
    a) Clarified there are no special inspections within scope unless completed by Owner.

6. **Specifications Section "07 21 00 – Thermal Insulation":**
    a) Added rigid insulation to section.

7. **Specifications Section "08 41 13 – Aluminum Framed Entrances and Storefront":**
    a) Updated to clarify thermally broken frames only required at exterior locations.

8. **Specifications Section "08 51 13 – Aluminum Windows":**
    a) Updated to clarify information for aluminum windows on exterior and interior of building. Thermally broken at exterior locations.
    b) Updated glazing specifications.

8. **Specifications Section "08 71 00 – Door Hardware":**
    a) Removed card readers from scope. Infrastructure only as part of scope, see electrical drawings.
    b) Updated door tags.

9. **Specifications Section "08 80 00 –Glazing":**
    a) Updated glazing schedule to match drawings.

10. **Specifications Section "10 26 00 – Wall and Door Protection":**
    a) Updated location and amount for corner guards.

11. **Specifications Section "12 24 13 – Roller Window Shades":**
    a) Updated location description to be as shown on drawings.

12. **Specifications Section "12 36 19 – Quartz Agglomerate Countertops":**
    a) Updated thickness and edge notes.

Changes/Clarifications to the following Drawing:

1. **Drawing "T1-2 – Title Sheet, Maps, Abbreviations, Index of Drawings, and Specifications"**
    b) Index of Drawings: Added Architectural drawing A2-3.1, Alternate No. 2 Curtainwall Elevations, Sections & Details.

2. **Drawing "T1-2 – Appendix B Code Summary"**
    a) Project Information Section: Revised Contact information of "Owner Or Authorized Agent" to Gage King.
    b) Added Engineering Source of NC, P.A., and its contact information, as "Designer" of "Fire Alarm".
    c) "Gross Building Area" Section: Revised areas in Work Area column and added areas to Sub Total column.

3. **Drawing "A0-1 – Enlarged Demolition Floor Plan"**
    a) General Demolition Notes #2 & #17: Revised the description.
    b) General Demolition Note #14: Added "Curtain Wall" to Removal Work.
    c) General Demolition Note #18: Added new note.
    d) Keyed Demolition Note "C": Clarified equipment to conveying system.
    e) Keyed Demolition Notes "F, N, O, & P": Revised the description.
    f) Keyed Demolition Note "G": Added tile in demolition work.
    g) Keyed Demolition Note "H": Added soffits in demolition work.
    h) Keyed Demolition Notes "Q, R, S, T, U, & V": Removed.

i) View 1/A0-1: Added note “G” to the view and “North” to View title.

4. Drawing “A0-3 – Enlarged Demolition Reflected Ceiling Plan”

a) General Demolition Notes #2 & #17: Revised the description.
b) General Demolition Note #14: Added “Curtain Wall” to Removal Work.
c) General Demolition Note #18: Added new note.
d) Keyed Demolition Note “C”: Replaced “equipment” by “conveying system” in demolition work.
e) Keyed Demolition Notes “F, N, O, & P”: Revised the description.
f) Keyed Demolition Note “G”: Added tile in demolition work.
g) Keyed Demolition Notes “H”: Added soffits in demolition work.
h) Keyed Demolition Notes “Q, R, S, T, U, & V”: Removed.
i) 1/A0-3: Revised existing note to Coordinate demolition where existing metal ceiling and new mezzanine level intersect, added new note on demolition existing terminal check-in counter, and added “North” to View title.

5. Drawing “A0-4 – Demolition Exterior Elevations”

a) General Demolition Notes #2 & #17: Revised the description.
b) General Demolition Note #14: Added “Curtain Wall” to Removal Work.
c) General Demolition Note #18: Added new note.
d) Keyed Demolition Note “C”: Replaced “equipment” by “conveying system” in demolition work.
e) Keyed Demolition Notes “F, N, O, & P”: Revised the description.
f) Keyed Demolition Note “G”: Added tile in demolition work.
g) Keyed Demolition Notes “H”: Added soffits in demolition work.
h) Keyed Demolition Notes “Q, R, S, T, U, & V”: Removed.
i) General Note added clarifying overall building demolition elevations.
j) 1/A0-4: Added “M” to existing columns of storefront, added “Base Bid” to “Demo”, added “No Work” to the “Exist” scope areas, and added “South” to the View Title.
k) 2/A0-4: Added “E” to existing walls, added “Base Bid” to “Demo”, added “No Work” to the “Exist” scope areas, and added “North” to the View Title.

6. Drawing “A0-5 – Demolition Exterior Elevation”

a) General Demolition Notes #2 & #17: Revised the description.
b) General Demolition Note #14: Added “Curtain Wall” to Removal Work.
c) General Demolition Note #18: Added new note.
d) Keyed Demolition Note “C”: Replaced “equipment” by “conveying system” in demolition work.
e) Keyed Demolition Notes “F, N, O, & P”: Revised the description.
f) Keyed Demolition Note “G”: Added tile in demolition work.
g) Keyed Demolition Notes “H”: Added soffits in demolition work.
h) Keyed Demolition Notes “Q, R, S, T, U, & V”: Removed.
i) General Note added clarifying overall building demolition elevations.
j) 1/A-05 - East Demolition Exterior Elevation: Replaced “U” with “P”, added note about Base Bid and Alternate #2 and added “East” to the View Title.

7. Drawing “A1-1 – Enlarged Floor Plans”

a) 1/A1-1: Added wall type #7 and added North Arrow.

8. Drawing “A1-2 – Enlarged Reflected Ceiling Plans”

b) 1/A1-2: Revised ceiling levels of Vestibule (Room 160) & Offices (Room 126-128-130-132) to 10’-8” A.F.F., changed ceiling type of Offices (Room 126-128-130-132) to Gypsum Board and added North Arrow.

9. Drawing “A2-1 – Exterior Building Elevations”

a) 1/A2-1: Added new section tags on Main Entrance & Storefront, replaced “New” with “Base Bid”, added “No Work” to “Exist” at scope areas. Revised Aluminum Trim notes replaced “Window” to “Storefront” and added “South” to the View Title.

b) 2/A2-1: Added new section tag on through existing wall, replaced “New” by “Base Bid” and “No Work” the “Exist” at scope areas, updated wall infill notes, added new existing wall notes, added “North” to the View Title, and revised View number “1” with number “2”.

10. Drawing “A2-2 – Exterior Building Elevations & Interior Sections”

a) 1/A2-2: Revised storefront elevation to show Base Bid with new storefront and louver to remain, updated related notes for storefront Base Bid, added note for Alternate scope, “For Added Note of infill wall after removing existing fan and added “East” to the View Title,
b) 2/A2-2: Revised the section tags from 4/A2-3 to 2B/A2-3, 6/A2-3 to 12/A2-3, deleted 10/A8-1, 14/A2-3, 15/A2-3, added new section tag 2C/A2-3, revised storefront elevation with existing louver to remain, revised dimensions to “center to center”, and added “Storefront” to the View Title.
c) 3/A2-2: Removed section tag 2/A2-3, revised the section tag from 4/A2-3 to tag 2A/A2-3 and dimensions to “center to center”, and added “Curtainwall” to the View Title.
d) 4/A2-2: Changed ceiling of rooms adjacent to storefront to 10’-8” A.F.F level with gypsum board ceiling and added Note for floor joists. Added 14’ high wall type.
e) 5/A2-2: Revised storefront/louver elevation and floor section connecting to stair.
f) 6/A2-2: Updated section to match structural drawings.
g) 7/A2-2: Updated guardrail section.
h) 9/A2-2: Added storefront detail
i) 10/A2-2: Added wall section detail.

11. Drawing “A2-3 – Wall Sections & Details”

a) 1/A2-3: Added 2” rigid insulation layer to partition type 5 and added new partition type 7.
b) 2A/A2-3: Replaced detail 2 with 2A and revised to include additional notes with more information.
c) 2B/A2-3: Added detail to show storefront section for East side of building where existing louver is located.
d) 2C/A2-3: Added detail to show storefront sill section for East and South sides of the building.
e) 3/A2-3 – 12/A2-3: Revised details 3 - 12 to include additional notes, and information for further clarification.
f) 13/A2-3: Removed existing storefront plan detail and added new storefront detail for South side of building.
g) 14/A2-3 & 15/A2-3: Revised details 14 & 15 to include additional notes, and information for further clarification.
h) 16/A2-3 & 17/A2-3: Added storefront details 16 & 17 for the North side of the building.
i) 18/A2-3: Moved original detail view 17 to view 18.
j) 19/A2-3: Added new detail.

12. Drawing “A2-3.1 – Alternate No. 2 Curtainwall Elevations, Sections & Details”

a) Added new drawing to capture curtain wall assembly elevations, details, and sections as part of alternate number 2.

13. Drawing “A4-2 – Interior Elevations & Casework Sections”

a) 5/A4-2 7 6/A4-2: Added notes for further clarification.
b) 9/A4-2 & 10/A4-2: Revised sections to show countertops as single piece quartz.
c) 9/A4-2 – 13/A4-2: Replaced “Bullnose Edge” with “Eased Edge” countertops for casework sections.
d) 11/A4-2 – 13/A4-2: Removed dimensions showing countertop thickness.
e) 14/A4-2: Added notes for further clarification.

14. Drawing “A4-3 – Casework Sections”

a) 1/A4-2 – 5/A4-2 & 7/A4-2 – 10/A4-2: Replaced “Bullnose Edge” with “Eased Edge” countertops for casework sections.

b) 3/A4-2 – 5/A4-2 & 7/A4-2 – 10/A4-2: Revised sections to show countertops as single piece quartz.

15. Drawing “A8-1 – Door & Window Schedule, Frame Types, & Details”

a) 1/A8-1: Add dimension to frame types F8 & F10.
b) 6/A8-1: Added note “continuous sealant bed” for further clarification.
c) 10/A8-1: Revised detail to show as typical exterior alum door jamb/head in lieu of storefront.
d) Door & Frame Schedule: Replaced Details of Door Group 3 with detail 7/A8-1 for Jamb & Head, and detail 6/A8-1 for Sill. Replaced glass type G2 with G1.

e) Door & Frame Schedule: Replaced Detail of Door Group 9 with 9/A8-1 for Sill and replaced glass type G2 with G1.
f) Door & Frame Schedule: Replaced Details of Door Group 12 with 8/A8-1 for Head, and 9/A8-1 for Sill. Deleted the Notes "Provide & Install Weather Seals on 4 sides of frame".
g) Glazing Types: Changed glass type G2 to be Clear tempered 1/4" glass instead of 1/2".
h) Storefront/Curtainwall/Window Schedule: Changed name of title from "Window Schedule" to "Storefront/Curtainwall/Window Schedule".
i) Storefront/Curtainwall/Window Schedule: replaced Details of window type W1 with 12/A2-3 & 14/A2-3 for Jamb, 15/A2-3 for Head, and 2C/A2-3 for Sill.
j) Storefront/Curtainwall/Window Schedule: Replaced Details of Window type W3 with 16/A2-3 for Jamb & Head, and 17/A2-3 for Sill.
k) Storefront/Curtainwall/Window Schedule: Replaced Details of Window type W4 with 12/A2-3 for Jamb, 2B/A2-3 for Head, and 2C/A2-3 for Sill.
l) Storefront/Curtainwall/Window Schedule: Added 5/A2-3 to Jamb detail for Window type W5 and replaced "Storefront" wording with "Curtainwall" on W5 Description.

16. Drawing "A9-1 – Finish Plan, Schedule, & Details"

a) 1/A9-1: Revised view title to "First Floor Finish Plan" in lieu of "Finish Plan"
b) 1/A9-1: Added note for roller shades to offices 126, 128, 130, 132, 141, 142, 143, 145, 147, and breakroom 148.
c) 1/A9-1: Removed transition strips "TS-3" at entry 161.
d) 1/A9-1: Replaced transition strip "TS-4" with "TS-2" at Janitor room 151.
e) 1/A9-1: Updated janitor room 151 mop sink.
f) 2/A9-1: Added Mezzanine Finish Plan.
g) 9/A9-1: Changed sheet view number from number 2 to number 9. Detail remains the same.
h) Finish Schedule: Replaced Manufacturer/ Style/ Location of CG-1 Corner Guard to "Wall Guard - 1" x 48" stainless steel/ - All Gyp. Board Wall Outside Corners".
i) Finish Schedule: Replaced note on Locations of RS Roller Shades to "As Shown".

17. Drawing "PME-1.0 – Demo Plan"

a) Added demolition information and notes.

18. Drawing "P1.2 – Potable Water Plan"

a) Revised fixture schedule for the mop sink and tiled shower.

19. Drawing "M1.1 – Mechanical Plan"

a) Showed exhaust fan discharge duct and wall caps.

20. Drawing "E0.1 – Riser Plan"

a) Revised riser diagram and grounding detail. Added circuits to panel "M" for electric strike doors.

21. Drawing "E1.1 – Power Plan"

a) Showed electric strike door locations.

21. Drawing "E1.3 – Power Plan"

a) Added plan for existing electrical room.

TABLE OF CONTENTS

SECTION 00 41 00 - BID FORM

THE PROJECT AND THE PARTIES

1.01 TO:

A. NC Department of Transportation, Global Transpark Authority (Owner)
Terminal Building
2780 Jetport Road
Kinston, North Carolina 28504

1.02 FOR:

A. Project: NCDOT GTP Kinston Jetport Terminal Building Renovation: Phase 3

B. Owner's Project Number: 18056C
NC Global Transpark
Terminal Building
2780 Jetport Road
Kinston, North Carolina 28504

1.03 DATE: _____ (BIDDER TO ENTER DATE)

1.04 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)

A. Bidder's Full Name _____
1. Address _____
2. City, State, Zip_____

1.05 OFFER

A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Contract Documents prepared by MHAworks, PA for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:

B. _____
_____ dollars
($_____), in lawful money of the United States of America.

C. We have included the required security deposit as required by the Instruction to Bidders.

D. We have included the required performance assurance bonds in the Bid Amount as required by the Instructions to Bidders.

E. All applicable federal taxes are included and State of North Carolina taxes are included in the Bid Sum.

1.06 ACCEPTANCE

A. This offer shall be open to acceptance and is irrevocable for sixty days from the bid closing date.

B. If this bid is accepted by Owner within the time period stated above, we will:
1. Execute the Agreement within seven days of receipt of Notice of Award.
2. Furnish the required bonds within seven days of receipt of Notice of Award.
3. Commence work within seven days after written Notice to Proceed of this bid.

C. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.07 CONTRACT TIME

A. If this Bid is accepted, we will:

B. Work shall be completed on site within 180 calendar days from the Notice to Proceed. Following the Recommendation to Award, the Design Team and Owner will work with the awarded General Contractor to establish a procurement period for the review of submittals and procurement of long-lead time items ahead of mobilization on site.

1.08 CHANGES TO THE WORK

A. When Architect establishes that the method of valuation for Changes in the Work will be net cost plus a percentage fee in accordance with General Conditions, our percentage fee will be:
   1. ten (10%) percent overhead and profit on the net cost of our own Work;
   2. five (5%) percent on the cost of work done by any Subcontractor.

B. On work deleted from the Contract, our credit to Owner shall be Architect-approved net cost plus five (5%) percent of the overhead and profit percentage noted above.

1.09 ADDENDA

A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
   1. Addendum # _____ Dated _____.
   2. Addendum # _____ Dated _____.
   3. Addendum # _____ Dated _____.
   4. Addendum # _____ Dated _____.

1.10 BID SUPPLEMENTS

A. The supplements are part of this Bid Form and are attached hereto.
   1. Bid Form Supplement – Alternates.

1.11 BID FORM SIGNATURE(S)

A. The Corporate Seal of

B. _____

C. (Bidder - print the full name of your firm)

D. was hereunto affixed in the presence of:

E. _____

F. (Authorized signing officer, Title)

G. (Seal)

H. (Authorized signing officer, Title)

END OF SECTION 00 41 00

SECTION 004323 - ALTERNATES FORM

1.1 BID INFORMATION

A. Bidder: _____.

B. Prime Contract: _____.

C. Project Name: **NCDOT GTP Kinston Jetport Terminal Building Renovation: Phase 3**

D. Project Location: **NC Global Transpark, Terminal Building, 2780 Jetport Road, Kinston, NC 28504**

E. Owner: **NC Department of Transportation, Global Transpark Authority**

1.2 BID FORM SUPPLEMENT

A. This form is required to be attached to the Bid Form.

1.3 DESCRIPTION

A. The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.

1. Cost-Plus-Fee Contract: Alternate price given below includes adjustment to Contractor's Fee.

B. If the alternate does not affect the Contract Sum, the Bidder shall indicate "NO CHANGE."

C. If the alternate does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."

D. The Bidder shall be responsible for determining from the Contract Documents the affects of each alternate on the Contract Time and the Contract Sum.

E. Owner reserves the right to accept or reject any alternate, in any order, and to award or amend the Contract accordingly within [**60**] days of the Notice of Award unless otherwise indicated in the Contract Documents.

F. Acceptance or non-acceptance of any alternates by the Owner shall have no affect on the Contract Time unless the "Schedule of Alternates" Article below provides a formatted space for the adjustment of the Contract Time.

1.4 SCHEDULE OF ALTERNATES

A. **Alternate No. 01: Storefront**:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.
2. _____ Dollars ($_____).
3. ADD____ DEDUCT____ calendar days to adjust the Contract Time for this alternate.

B. **Alternate No. 02: Curtain wall**:

1. ADD____ DEDUCT____ NO CHANGE____ NOT APPLICABLE____.
2. _____ Dollars ($_____).
3. ADD____ DEDUCT____ calendar days to adjust the Contract Time for this alternate.

1.5 SUBMISSION OF BID SUPPLEMENT

A. Respectfully submitted this ____ day of _____, 2024.

B. Submitted By:_____(Insert name of bidding firm or corporation).

C. Authorized Signature:_____(Handwritten signature).

D. Signed By:_____(Type or print name).

E. Title:_____(Owner/Partner/President/Vice President).

END OF DOCUMENT 004323

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternates into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include, as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation, whether or not indicated as part of alternate.

B. Execute accepted alternates under the same conditions as other Work of the Contract.

C. Schedule: A Part 3 "Schedule of Alternates" Article is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No. 1: Storefront

1. Base Bid: Replace and install new storefront at front of building of phase 3 base bid area only as shown in architectural sheet A0-4 (Demolition Exterior Elevations) & A2-1 (Exterior Building Elevations).
2. Alternate: Replace and install new storefront along front of building of phase 3 base bid area and alternate middle section as shown in architectural sheet A0-4 (Demolition Exterior Elevations) & A2-1 (Exterior Building Elevations).

B. Alternate No. 2: Curtain wall

1. Base Bid: Demolish existing vestibule and Install new storefront with existing metal louver to remain as shown in architectural sheet A0-5 (Demolition Exterior Elevation) & A2-2 (Exterior Building Elevations & Interior Sections).
2. Alternate: Demolish existing metal louver and vestibule as shown on architectural sheet A0-5 (Demolition Exterior Elevation). Replace with new curtain wall system as shown on architectural sheet A2-3.1 (Alternate No. 2 Curtainwall Elevations, Sections, and Details).

END OF SECTION 01 23 00

G. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:

1. Access to the Work.
2. Incidental labor and facilities necessary to facilitate tests and inspections.
3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
4. Facilities for storage and field curing of test samples.
5. Preliminary design mix proposed for use for material mixes that require control by testing agency.
6. Security and protection for samples and for testing and inspecting equipment at Project site.

H. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.

1. Schedule times for tests, inspections, obtaining samples, and similar activities.

I. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents as a component of Contractor's quality-control plan. Coordinate and submit concurrently with Contractor's construction schedule. Update as the Work progresses.

1. Distribution: Distribute schedule to Owner, Architect, Commissioning Authority, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

1.10 SPECIAL TESTS AND INSPECTIONS

A. Special Tests and Inspections: The Owner may engage a qualified special inspector to conduct special tests and inspections required by authorities having jurisdiction as the responsibility of Owner. No Special inspections are included in this scope and would be at the Owners preference.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:

1. Date test or inspection was conducted.
2. Description of the Work tested or inspected.
3. Date test or inspection results were transmitted to Architect.
4. Identification of testing agency or special inspector conducting test or inspection.

B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's, Commissioning Authority's, reference during normal working hours.

SECTION 07 21 00 - THERMAL INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Glass-fiber blanket.
2. Polyisocyanurate Foam-Plastic board

B. Related Requirements:

1. Section 09 29 00 "Gypsum Board" for sound attenuation blanket used as acoustic insulation.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.4 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each product, for tests performed by a qualified testing agency.

B. Evaluation Reports: For foam-plastic insulation, from ICC-ES.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect insulation materials from physical damage and from deterioration due to moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.

B. Protect foam-plastic board insulation as follows:

1. Do not expose to sunlight except to necessary extent for period of installation and concealment.
2. Protect against ignition at all times. Do not deliver foam-plastic board materials to Project site until just before installation time.

3. Quickly complete installation and concealment of foam-plastic board insulation in each area of construction.

PART 2 – PRODUCTS

2.1 GLASS-FIBER BLANKET

A. Glass-Fiber Blanket, Unfaced: ASTM C 665, Type I; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. CertainTeed Corporation.
   b. Johns Manville; a Berkshire Hathaway company.
   c. Knauf Insulation.
   d. Owens Corning.

2.2 EXTRUDED POLYSTYRENE FOAM-PLASTIC BOARD

1. For use as continuous wall insulation as noted.

2. Extruded polystyrene boards in this article are also called "XPS boards." Roman numeral designators in ASTM C 578 are assigned in a fixed random sequence, and their numeric order does not reflect increasing strength or other characteristics.

3. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

   a. Dow Chemical Company (The).
   b. Kingspan Insulation.
   c. Owens Corning.

4. Average LTTR R-Value: 5.0 per inch.

2.3 INSULATION FASTENERS

A. Adhesively Attached, Spindle-Type Anchors: Plate welded to projecting spindle; capable of holding insulation of specified thickness securely in position with self-locking washer in place.

1. Provide anchors as recommended, or required by insulation manufacturer to maintain product warranty and to provide complete wall system compliant with requirements for continuous insulation and air barrier.
2. Plate: Perforated, galvanized carbon-steel sheet, 0.030 inch (0.762 mm) thick by 2 inches (50 mm) square.
3. Spindle: Copper-coated, low-carbon steel; fully annealed; 0.105 inch (2.67 mm) in diameter; length to suit depth of insulation.

2.4 ACCESSORIES

A. Insulation for Miscellaneous Voids:
   1. Spray Polyurethane Foam Insulation: ASTM C 1029, Type II, closed cell, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84.

B. Adhesive for Bonding Insulation: Product compatible with insulation and air and water barrier materials, and with demonstrated capability to bond insulation securely to substrates without damaging insulation and substrates.

PART 3 - EXECUTION

3.1 PREPARATION

A. Clean substrates of substances that are harmful to insulation, including removing projections capable of puncturing insulation or vapor retarders, or that interfere with insulation attachment.

3.2 INSTALLATION, GENERAL

A. Comply with insulation manufacturer's written instructions applicable to products and applications.

B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.

C. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

D. Provide sizes to fit applications and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units unless multiple layers are otherwise shown or required to make up total thickness or to achieve R-value.

3.3 INSTALLATION OF FOUNDATION WALL INSULATION

A. Butt panels together for tight fit.

B. Adhesive Installation: Install with adhesive or press into tacky waterproofing or dampproofing according to manufacturer's written instructions.

3.4 INSTALLATION OF CAVITY-WALL INSULATION

A. Foam-Plastic Board Insulation over CMU Substrate: Install pads of adhesive spaced approximately 24 inches (610 mm) o.c. both ways on inside face and as recommended by manufacturer. Fit courses of insulation between wall ties and other obstructions, with edges butted tightly in both directions. Press units firmly against inside substrates.

   1. Supplement adhesive attachment of insulation by securing boards with two-piece wall ties designed for this purpose and specified in Section 04 26 13 "Masonry Veneer."

B. Foil Faced Polyisocyanurate Foam-Plastic Board Insulation over Metal Stud and Sheathing: Install insulation with manufacturer approved screw and washer assembly. Fasteners to be installed per manufacturers written recommendations for veneer application. Insulation to be installed tight against adjacent construction with a maximum gap between boards of 1/16”.

1. Fasteners to be coordinated with brick veneer attachment as specified in Section 04 26 13 “Masonry Veneer”.
2. All fasteners and attachment methods to align with manufacturers tested requirements for NFPA 285 approval. Verify anchor size and installation pattern with manufacturer prior to the start of work.

C. Once insulation is installed, seal each board seam with manufacturer recommended flashing.

D. Once insulation is installed, patch and repair all surface imperfections and insulation punctures per manufacturers suggested techniques and methods.

E. Insulation gaps at openings and around through wall penetrations shall not have gaps greater than 3/8”. All gaps to be foam filled per manufacturers installation recommendations.

F. All fasteners and attachment methods to align with manufacturers tested requirements for NFPA 285 approval. Verify anchor size and installation pattern with manufacturer prior to the start of work.

3.5 INSTALLATION OF INSULATION IN FRAMED CONSTRUCTION

A. Miscellaneous Voids: Install insulation in miscellaneous voids and cavity spaces where required to prevent gaps in insulation using the following materials:

1. Glass-Fiber Insulation: Compact to approximately 40 percent of normal maximum volume equaling a density of approximately 2.5 lb/cu. ft. (40 kg/cu. m).
2. Spray Polyurethane Insulation: Apply according to manufacturer's written instructions.

B. Spray-Applied Cellulosic Insulation: Apply spray-applied insulation according to manufacturer's written instructions. Do not apply insulation until installation of pipes, ducts, conduits, wiring, and electrical outlets in walls is completed and windows, electrical boxes, and other items not indicated to receive insulation are masked. After insulation is applied, make flush with face of studs by using method recommended by insulation manufacturer.

3.6 PROTECTION

A. Protect installed insulation from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

END OF SECTION 07 21 00

J. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes:

1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. EFCO Corporation.
2. Kawneer North America; an Alcoa company.
3. Oldcastle BuildingEnvelope™.
4. YKK AP America, Inc.

B. Source Limitations: Obtain all components of aluminum-framed entrance and storefront system, including framing venting windows and accessories, from single manufacturer.

2.3 FRAMING

A. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.

1. Construction: Thermally broken at all exterior locations.
2. Glazing System: Retained mechanically with gaskets on four sides.
3. Glazing Plane: Center.
4. Finish: Clear anodic finish.
5. Fabrication Method: Field-fabricated stick system.

B. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.

C. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with non -staining, nonferrous shims for aligning system components.

D. Materials:

1. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.

a. Sheet and Plate: ASTM B 209.
b. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.
c. Extruded Structural Pipe and Tubes: ASTM B 429/B 429M.
d. Structural Profiles: ASTM B 308/B 308M.

2. Steel Reinforcement: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM and prepare surfaces according to applicable SSPC standard.

a. Structural Shapes, Plates, and Bars: ASTM A 36/A 36M.
b. Cold-Rolled Sheet and Strip: ASTM A 1008/A 1008M.
c. Hot-Rolled Sheet and Strip: ASTM A 1011/A 1011M.

SECTION 084413
GLAZED ALUMINUM CURTAIN WALLS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Aluminum-framed curtain wall, with vision glazing and infill panels.

1.02 RELATED REQUIREMENTS

A. Section 079200 - Joint Sealants: Sealing joints between frames and adjacent construction.

B. Section 084313 - Aluminum-Framed Storefronts: Entrance framing and doors.

C. Section 088000 - Glazing.

1.03 REFERENCE STANDARDS

A. AAMA CW-10 - Care and Handling of Architectural Aluminum from Shop to Site; 2015.

B. AAMA 501.4 - Recommended Static Test Method for Evaluating Window Wall, Curtain Wall and Storefront Systems Subjected to Seismic and Wind-Induced Inter-Story Drift; 2018.

C. AAMA 503 - Voluntary Specification for Field Testing of Newly Installed Storefronts, Curtain Walls and Sloped Glazing Systems; 2014.

D. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum; 2020.

E. AAMA 1503 - Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections; 2009.

F. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2019.

G. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.

H. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.

I. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

J. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.

K. ASTM C794 - Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants; 2018 (Reapproved 2022).

L. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2019.

M. ASTM E330/E330M - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference; 2014 (Reapproved 2021).

N. ASTM E1105 - Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference; 2015 (Reapproved 2023).

O. ASTM E1996 - Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes; 2023.

P. SSPC-Paint 20 - Zinc-Rich Coating (Type I - Inorganic, and Type II - Organic); 2019.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate with installation of other components that comprise the exterior enclosure.

B. Preinstallation Meeting: Conduct a preinstallation meeting one week before starting work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, internal drainage details, glazing, attachment to support structure, and infill.

C. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related Work, expansion and contraction joint location and details, and field welding required.

D. Manufacturer's Certificate: Certify that the products supplied meet or exceed the specified requirements.

E. Design Data: Provide framing member structural and physical characteristics and engineering calculations, and identify dimensional limitations; include load calculations at points of attachment to building structure.

F. Test Reports: Submit results of full-size mock-up testing. Reports of tests previously performed on the same design are acceptable.

G. Field Quality Control Submittals: Report of field testing for water penetration and air leakage.

H. Designer's Qualification Statement.

I. Installer's Qualification Statement.

J. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

A. Designer Qualifications: Design curtain wall and its structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed at the State in which the Project is located.

B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with not less than three years of documented experience.

C. Installer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Handle products of this section in accordance with AAMA CW-10.

B. Protect finished aluminum surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond to aluminum when exposed to sunlight or weather.

1.08 FIELD CONDITIONS

A. Do not install sealants when ambient temperature is less than 40 degrees F (5 degrees C). Maintain this minimum temperature during and 48 hours after installation.

1.09 WARRANTY

A. See Section 017800 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty: Provide 5-year manufacturer warranty against failure of glass seal on insulating glass units, including interpane dusting or misting. Include provision for replacement of failed units. Complete forms in Owner's name and register with installer.

C. Finish Warranty: Provide 5-year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with warrantor.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Glazed Aluminum Curtain Walls Manufacturers:

1. Basis of Design: Kawneer North America; 1600 Wall System 1: www.kawneer.com/#sle.

2. Oldcastle Building Envelope: www.oldcastlebe.com/#sle.
3. Tubelite, Inc: www.tubeliteinc.com/#sle.
4. Wausau Window and Wall Systems: www.wausauwindow.com/#sle.
5. YKK AP America, Inc: www.ykkap.com/commercial/#sle.
6. Substitutions: See Section 016000 - Product Requirements.

2.02 CURTAIN WALL

A. Aluminum-Framed Curtain Wall: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
   1. Outside glazed, with pressure plate and mullion cover.
   2. Fabrication Method: Field fabricated stick system.
   3. Glazing Method: Field glazed system.
   4. Vertical Mullion Face Width: 2-1/2 inches (63.5 mm).
   5. Vertical Mullion Depth From Face of Glazing Cap to Back of Frame: 10-1/2 inches (266.7 mm).
   6. Finish: Class I natural anodized.
      a. Factory finish surfaces that will be exposed in completed assemblies.
      b. Coat concealed metal surfaces that will be in contact with cementitious materials or dissimilar metals with bituminous paint.
   7. Provide flush joints and corners, weathersealed, accurately fitted and secured; prepared to receive anchors; fasteners and attachments concealed from view; reinforced as required for imposed loads.
   8. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
   9. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
   10. Maintain continuous air barrier and/or vapor retarder seal throughout assembly, primarily in line with inside pane of glazing and inner sheet of infill panel and heel bead of glazing compound.
   11. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.

B. Structural Performance Requirements: Design and size components to withstand the following load requirements without damage or permanent set.
   1. Design Wind Loads: Comply with the following:
      a. Positive Design Wind Load: 40 lbf/sq ft (1915.21 Pa).
      b. Negative Design Wind Load: 40 lbf/sq ft (1915.21 Pa).
      c. Measure performance by testing in accordance with ASTM E330/E330M, using test loads equal to 1.5 times the design wind loads and 10 second duration of maximum pressure.
      d. Member Deflection: For spans less than 13 feet 6 inches (4115 mm), limit member deflection to flexure limit of glass in any direction, and maximum of 1/175 of span or 3/4 inch (19 mm), whichever is less and with full recovery of glazing materials.
      e. Member Deflection: For spans over 13 feet 6 inches (4115 mm) and less than 40 feet (12.2 m), limit member deflection to flexure limit of glass in any direction, and maximum of 1/240 of span plus 1/4 inch (1/240 of span plus 6.4 mm), with full recovery of glazing materials.
   2. Interstory Differential Lateral Movement: Meeting pass/fail criteria of AAMA 501.4 for Use Group I, Standard Occupancy, when tested at design displacement of 0.010 times greater adjacent story height, maximum, and 1.5 times design displacement, through three complete cycles.
   3. Wind-Borne-Debris Resistance: Identical full-size glazed assembly without auxiliary protection tested by independent agency in accordance with ASTM E1996 for Wind Zone 3 - Enhanced Protection for Large and Small Missile impact and pressure cycling at design wind pressure.

4. Movement: Accommodate the following movement without damage to components or deterioration of seals:
   a. Expansion and contraction caused by 180 degrees F (82 degrees C) surface temperature.
   b. Expansion and contraction caused by cycling temperature range of 170 degrees F (77 degrees C) over a 12 hour period.
   c. Movement of curtain wall relative to perimeter framing.
   d. Deflection of structural support framing, under permanent and dynamic loads.

C. Water Penetration Resistance on Manufactured Assembly: No uncontrolled water on indoor face when tested as follows:
   1. Test Pressure Differential: 10 psf (480 Pa).

D. Air Leakage: 0.06 cfm/sq ft (0.3 L/sec sq m) maximum leakage of wall area when tested in accordance with ASTM E283/E283M at 6.24 psf (300 Pa) pressure difference across assembly.

E. Thermal Performance Requirements:
   1. Condensation Resistance Factor of Framing: 50, minimum, measured in accordance with AAMA 1503.

2.03 COMPONENTS

A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
   1. Cross-Section: As indicated on drawings.
   2. Structurally Reinforced Members: Extruded aluminum with internal reinforcement of structural steel member.

B. Glazing: See Section 088000.

C. Infill Panels: Insulated, aluminum sheet face and back, with edges formed to fit glazing channel and sealed, with insulated backpan.
   1. Face Sheet: Flat, non-textured aluminum sheet in manufacturer's standard thickness.
   2. Core: Manufacturer's standard rigid foam insulation core with R-value of ____ (RSI-value of ____).
   3. Back Sheet: Flat, non-textured aluminum sheet in manufacturer's standard thickness.
   4. Flame spread shall be less than 25 per ASTM E84.
   5. Smoke developed shall be less than 450 per ASTM E84.
   6. Exterior Finish: Class I natural anodized.
   7. Interior Finish: Clear anodized.
   8. Products:
      a. Basis of Design: ACM Panelworx; Arctic Infill: www.acmpanelworx.com/#sle.
      b. Substitutions: See Section 016000 - Product Requirements.

D. Operable Units: Doors comply with Division 08 Aluminum-Framed Entrances and Storefronts Section.

2.04 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M).

B. Sheet Aluminum: ASTM B209/B209M.

C. Structural Steel Sections: ASTM A36/A36M; galvanized in accordance with requirements of ASTM A123/A123M.

D. Fasteners: Stainless steel; type as required or recommended by curtain wall manufacturer.

E. Exposed Flashings: Aluminum sheet, 20-gauge, 0.032-inch (0.81 mm) minimum thickness; finish to match framing members.

F. Weatherseal Sealant: Silicone, with adhesion in compliance with ASTM C794; compatible with glazing accessories.

G. Sill Flashing Sealant: Elastomeric, silicone or polyurethane, and compatible with flashing material.

H. Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements.

I. Glazing Accessories: See Section 088000.

J. Touch-Up Primer for Galvanized Steel Surfaces: SSPC-Paint 20, zinc rich.

2.05 FINISHES

A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils (0.018 mm) thick.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify dimensions, tolerances, and method of attachment with other related work.

B. Verify that curtain wall openings and adjoining water-resistive and air barrier seal materials are ready to receive work of this section.

C. Verify that anchorage devices have been properly installed and located.

3.02 INSTALLATION

A. Install curtain wall system in accordance with manufacturer's instructions.

B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.

C. Provide alignment attachments and shims to permanently fasten system to building structure.

D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances.

E. Provide thermal isolation where components penetrate or disrupt building insulation.

F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.

G. Pressure Plate Framing: Install glazing and infill panels using exterior dry glazing method; see Section 088000.

H. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.

3.03 TOLERANCES

A. Maximum Variation from Plumb: 0.06 inch per 3 feet (1.5 mm/m) noncumulative or 0.5 inches per 100 feet (12 mm/30 m), whichever is less.

B. Maximum Misalignment of Two Adjoining Members Abutting in Plane: 1/32 inch (0.8 mm).

C. Sealant Space Between Curtain Wall Mullions and Adjacent Construction: Maximum of 3/4 inch (19 mm) and minimum of 1/4 inch (6 mm).

3.04 FIELD QUALITY CONTROL

A. Provide field testing of installed curtain wall system by independent laboratory in accordance with AAMA 503 during construction process and before installation of interior finishes.
   1. Perform a minimum of two tests in each designated area as indicated on drawings.
   2. Conduct tests in each area prior to 10 percent and 50 percent completion of this work.
   3. Field test for water penetration in accordance with ASTM E1105 with uniform static air pressure difference (Procedure A) not less than 4.18 psf (200 Pa).
      a. Maximum allowable rate of water penetration in 15-minute test is 0.5 ounce (14 gram) that is not contained in an area with provisions to drain to exterior, or collected on surface of interior horizontal framing member.

3.05 ADJUSTING

A. Adjust operating sash for smooth operation.

3.06 CLEANING

A. Remove protective material from pre-finished aluminum surfaces.

END OF SECTION 084413

SECTION 08 51 13 - ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes aluminum windows for exterior & interior locations.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include construction details, material descriptions, glazing and fabrication methods, dimensions of individual components and profiles, hardware, and finishes for aluminum windows.

B. Shop Drawings: For aluminum windows.

1. Include plans, elevations, sections, hardware, accessories, insect screens, operational clearances, and details of installation, including anchor, flashing, and sealant installation.

C. Samples: For each exposed product and for each color specified, 2 by 4 inches (50 by 100 mm) in size.

D. Product Schedule: For aluminum windows. Use same designations indicated on Drawings.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For manufacturer and Installer.

B. Product Test Reports: For each type of aluminum window, for tests performed by a qualified testing agency.

C. Field quality-control reports.

D. Sample Warranties: For manufacturer's warranties.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A manufacturer capable of fabricating aluminum windows that meet or exceed performance requirements indicated and of documenting this performance by test reports and calculations.

B. Installer Qualifications: An installer acceptable to aluminum window manufacturer for installation of units required for this Project.

1.6 WARRANTY

A. Manufacturer's Warranty: Manufacturer agrees to repair or replace aluminum windows that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Failure to meet performance requirements.
b. Structural failures including excessive deflection, water leakage, condensation, and air infiltration.
c. Faulty operation of movable sash and hardware.
d. Deterioration of materials and finishes beyond normal weathering.
e. Failure of insulating glass.

2. Warranty Period:

a. Window: 10 years from date of Final Acceptance.
b. Glazing Units: 10 years from date of Final Acceptance.
c. Aluminum Finish: 20 years from date of Final Acceptance.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain aluminum windows from single source from single manufacturer.

2.2 WINDOW PERFORMANCE REQUIREMENTS

A. Product Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 for definitions and minimum standards of performance, materials, components, accessories, and fabrication unless more stringent requirements are indicated.

B. Thermal Transmittance: NFRC 100 maximum whole-window U-factor of 0.45.

C. Solar Heat-Gain Coefficient (SHGC): NFRC 200 maximum whole-window SHGC of 0.25.

D. Condensation-Resistance Factor (CRF): Provide aluminum windows tested for thermal performance according to AAMA 1503, showing a CRF of 45.

E. Thermal Movements: Provide aluminum windows, including anchorage, that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change: 120 deg F (67 deg C) ambient; 180 deg F (100 deg C) material surfaces.

2.3 ALUMINUM WINDOWS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. EFCO Corporation.
2. Kawneer North America; an Alcoa company.
3. TRACO.
4. YKK AP America Inc.

B. Operating Types: Provide the following operating types in locations indicated on Drawings:
1. Fixed.

C. Frames and Sashes: Aluminum extrusions complying with AAMA/WDMA/CSA 101/I.S.2/A440.

1. Thermally Improved Construction: Fabricate frames, sashes, and muntins with an integral, concealed, low-conductance thermal barrier located between exterior materials and window members exposed on interior side in a manner that eliminates direct metal-to-metal contact. Thermally broken at all exterior locations.

D. Glass: Clear annealed glass, ASTM C 1036, Type 1, Class 1, q3.

1. Kind: Fully tempered where indicated on Drawings.
2. Location: 1/4” at interior locations.

E. Insulating-Glass Units: ASTM E 2190.

1. Glass: ASTM C 1036, Type 1, Class 1, q3.

a. Tint: Clear.
b. Kind: Fully tempered where indicated on Drawings.

2. Lites: Two.
3. Filling: Fill space between glass lites with air.
4. Location: 1” at exterior locations.

F. Glazing System: Manufacturer's standard factory-glazing system that produces weathertight seal.

G. Fasteners: Noncorrosive and compatible with window members, trim, hardware, anchors, and other components.

1. Exposed Fasteners: Do not use exposed fasteners to greatest extent possible. For application of hardware, use fasteners that match finish hardware being fastened.

2.4 ACCESSORIES

A. Subsills: Thermally broken, extruded-aluminum subsills in configurations indicated on Drawings.

B. Receptor System: Two-piece, snap-together, thermally broken, extruded-aluminum receptor system that anchors windows in place.

2.5 FABRICATION

A. Fabricate aluminum windows in sizes indicated. Include a complete system for assembling components and anchoring windows.

B. Glaze aluminum windows in the factory.

C. Weather strip each operable sash to provide weathertight installation.

D. Weep Holes: Provide weep holes and internal passages to conduct infiltrating water to exterior.

E. Provide water-shed members above side-hinged sashes and similar lines of natural water penetration.

F. Mullions: Provide mullions and cover plates, matching window units, complete with anchors for support to structure and installation of window units. Allow for erection tolerances and provide for movement of window units due to thermal expansion and building deflections. Provide mullions and cover plates capable of withstanding design wind loads of window units.

G. Complete fabrication, assembly, finishing, hardware application, and other work in the factory to greatest extent possible. Disassemble components only as necessary for shipment and installation.

2.6 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM's "Metal Finishes Manual" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.7 ALUMINUM FINISHES

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 611.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Verify rough opening dimensions, levelness of sill plate, and operational clearances.

C. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure weathertight window installation.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with manufacturer's written instructions for installing windows, hardware, accessories, and other components. For installation procedures and requirements not addressed in manufacturer's written instructions, comply with installation requirements in ASTM E 2112.

B. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction to produce weathertight construction.

C. Install windows and components to drain condensation, water penetrating joints, and moisture migrating within windows to the exterior.

D. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

3.3 ADJUSTING, CLEANING, AND PROTECTION

A. Adjust operating sashes and hardware for a tight fit at contact points and weather stripping for smooth operation and weathertight closure.

B. Clean exposed surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.

1. Keep protective films and coverings in place until final cleaning.

C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

D. Protect window surfaces from contact with contaminating substances resulting from construction operations. If contaminating substances do contact window surfaces, remove contaminants immediately according to manufacturer's written instructions.

END OF SECTION 08 51 13

3.7 DOOR HARDWARE SCHEDULE

A. Hardware Manufacturers: List of Manufacturers representing in the hardware sets.

1.	Hinges:	PBB
2.	Continuous Gear Hinges:	Stanley
3.	Flush Bolts:	H.B. Ives (IVE)
4.	Cylinders & Keys:	Corbin-Russwin (C-R)
5.	Locksets & Latches:	Falcon
6.	Exit Devices & FEH:	Von Duprin (VON)
7.	Door Pulls:	H.B. Ives (IVE)
8.	Push/Pull Bars:	H.B. Ives (IVE)
9.	Push/Pull Plates:	H.B. Ives (IVE)
10.	Surface Closers:	Dorma
11.	Overhead Stops/Holders:	Glynn-Johnson (GJH)
12.	Wall & Floor Stops:	H.B. Ives (IVE)
13.	Protective Plates:	Hager
14.	Thresholds:	National Guard Products (NGP)
15.	Weatherstrip & Gasket:	DHSI (DHS)
16.	Silencers:	H.B. Ives (IVE)
17.	Electric Switches:	Schlage Electronics (SCE)
18.	ADA Operators:	LCN (LCN)
19.	ADA Switches:	LCN (LCN

B. Hardware Sets:

** NOTE – All Intellikey hardware shall be owner provided, and Owner installed. Owner will coordinate with Contractor for infrastructure as shown on electrical drawings. All other door hardware shall be contractor provided, contractor installed.

** NOTE – Hardware Intent to match previous phase.

Door Hardware Set No. 1
126, 128, 129, 130, 131, 132, 133, 135, 136, 137, 139, 141, 142, 143, 144, 145, 147, ~~149,~~ 148

				Finish:
3	Hinges	PBB	BB81, 4 ½" x 4 ½" 652	US32D
1	Closer	Dorma	8616-ARP-COV-689	689 Alum
1	Private lock with lever	Falcon	MA301-DG-626	626
1	Kickplate	Hager	194S- 10" High	US26D
1	Wall Bumper			
1	Door Silencer			

Door Hardware Set No. 1A
159A

				Finish:
3	Hinges	PBB	BB81, 4 ½" x 4 ½" 652 EH4	US32D
1	Closer	Dorma	8616-ARP-COV-689	689 Alum
1	Private lock with lever	Falcon	MA301-DG-626	626
1	Kickplate	Burns	194S- 10" High	US26D
1	Wall Bumper			
1	Door Silencer	Burns	500-GRAY	Gray
1	Key Card Access	Owner provided.		

Door Hardware Set No. 2
140, 146A, 146B, 151

				Finish:
3	Hinges	PBB	BB81, 4 ½" x 4 ½" 652	US32D
1	Storeroom lock with lever	Best Lock	45H7D16J - F07	626
1	Kickplate	Hager	194S- 10" High	US26D
1	Wall Bumper			
1	Door Silencer			

Door Hardware Set No. 3
125, 127

				Finish:
3	Hinges	PBB	BB81, 4 ½" x 4 ½" 652	US32D
1	Closer	LCN	4111 - SCUSH	689 Alum
1	Pull Handle	Best Lock		
1	Push Plate			
1	Kickplate	Hager	194S- 10" High	US26D
1	Floor-mounted Door Stop			
1	Door Silencer			

Door Hardware Set No. 3A
153 (Pair)

				Finish:
6	Hinges	PBB	BB81, 4 ½" x 4 ½" 652	US32D
2	Closer	LCN	4111 - SCUSH	689 Alum
2	Pull Handle	Best Lock		
2	Push Plate			
2	Kickplate	Hager	194S- 10" High	US26D
2	Floor-mounted Door Stop			
2	Door Silencer			

Door Hardware Set No. 4
149, 150, 152

				Finish:
3	Hinges	PBB	BB81, 4 ½" x 4 ½" 652	US32D
1	Closer	LCN	4111 - SCUSH	689 Alum
1	Pull Handle	Best Lock		
1	Push Plate			
1	Kickplate	Hager	194S- 10" High	US26D
1	Wall Bumper			
1	Door Silencer			

Door Hardware Set No. 5
158A

				Finish:
3	Hinges - Continuous	Stanley	661HD - EPT	AL
1	Closer	LCN	4111 - SCUSH	689 Alum
1	Pull Handle			
1	Push Plate			
~~1~~	~~Key Card Access~~			
1	Entrance lock			
1	Floor-mounted Door Stop			
1	Door Silencer			

Door Hardware Set No. 5A

160A (Pair)				**Finish:**
6	Hinges - Continuous	Stanley	661HD - EPT	AL
2	Closer	LCN	4111 - SCUSH	689 Alum
2	Pull Handle			
2	Push Plate			
1	Entrance lock			
2	Floor-mounted Door Stop			
2	Door Silencer			

Door Hardware Set No. 6

154 (Pair)				**Finish:**
6	Hinges - Continuous	Stanley	661HD - EPT	AL
2	Closer	LCN	4111 - SCUSH	689 Alum
2	Pull Handle			
2	Push Plate			
1	Entrance lock			
2	Floor-mounted Door Stop			
2	Door Silencer			
1	Key Card Access	Owner Provided		

Door Hardware Set No. 7

138A, 138B				**Finish:**
3	Hinges	PBB	BB81, 4 ½" x 4 ½" 652	US32D
1	Closer	LCN	4111 - SCUSH	689 Alum
1	Entrance Lock			
1	Panic Device	Corbin Russwin	ED5200	626
~~1~~	~~Key card Access~~			
1	Wall Mounted Door Stop			
1	Door Silencer			

Door Hardware Set No. 8

158B, 159B				**Finish:**
1	Hinges - Continuous	Stanley	661HD - EPT	AL
1	Closer	LCN	4111 - SCUSH	689 Alum
1	Entrance Lock			
1	Panic Device	Corbin Russwin	ED5200	626
1	Key card Access	Owner Provided		
1	Weather-stripping	NGP		
1	Threshold	NGP	413SS	Stainless
1	Sweeps	NGP		
1	Floor-mounted Door Stop			
1	Door Silencer			

Door Hardware Set No. 8A **160B (Pair), Alternate 161 (Pair)**				**Finish:**
6	Hinges - Continuous	Stanley	661HD - EPT	AL
2	Closer	LCN	4111 - SCUSH	689 Alum
1	Entrance Lock			
2	Panic Device	Corbin Russwin	ED5200	626
1	Key card Access	Owner Provided		
2	Weather-stripping	NGP		
1	Threshold	NGP	413SS	Stainless
2	Sweeps	NGP		
2	Floor-mounted Door Stop			
2	Door Silencer			

END OF SECTION 08 71 00

3.7 MONOLITHIC GLASS SCHEDULE

A. Glass Type G1: Clear fully tempered float glass.

1. Minimum Thickness: 1 inch (25 mm).
2. Low-E Coating: Pyrolytic or sputtered on second or third surface.
3. Safety glazing required.

B. Glass Type G2: Clear fully tempered float glass.

1. Minimum Thickness: 1/4 inch (6.35 mm).
2. Safety glazing required.

END OF SECTION 08 80 00

SECTION 10 26 00 - WALL AND DOOR PROTECTION

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.2 SECTION INCLUDES

A. Work of this Section includes all labor, materials, equipment, and services necessary to complete the wall and door protection as shown on the drawings and/or specified herein.

1. Stainless steel corner guards.

1.3 RELATED SECTIONS

A. Gypsum Drywall - Section 09 29 00.

1.4 QUALITY ASSURANCE

A. Cover materials shall be classified in accordance with ASTM E 84 as to flame spread and smoke development and shall be classified as self-extinguishing in accordance with ASTM D 635.

1.5 SUBMITTALS

A. Samples: Two (2) 12" long samples of corner guards shall be delivered to the Architect.

B. Shop Drawings: Submit shop drawings for wall panels and corner guards showing all attachment details.

PART 2 PRODUCTS

2.1 WALL PROTECTION

A. Stainless Steel Corner Guards: As manufactured by Wallguard, Construction Specialties, Inc., JL Industries, Babcock-Davis, or approved equal

1. Surface mounted corner guards fabricated from 16 gauge stainless steel, Type 304, with No. 4 satin finish

2. 1” wide, by 48” tall. Corner guards to be provided at every outside gypsum board wall and column corner in high traffic areas. Provide a total of forty-five (45) corner guards. Design team and Owner will confirm all locations in submittal process.

1. Roller Shades: Full-size units equal to 5 percent of quantity installed for each size, color, and shadeband material indicated, but no fewer than two units.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver roller shades in factory packages, marked with manufacturer, product name, and location of installation using same designations indicated on Drawings.

1.8 FIELD CONDITIONS

A. Environmental Limitations: Do not install roller shades until construction and finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operating hardware of operable glazed units through entire operating range. Notify Architect of installation conditions that vary from Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Norman USA
2. Hunter Douglas Contract.
3. MechoShade Systems, Inc.
4. Springs Window Fashions; SWFcontract.

B. Source Limitations: Obtain roller shades from single source from single manufacturer.

C. Owner to select colors from manufacturer’s standards. Intent is to match existing shade color and opacity.

D. Install as noted on drawings.

2.2 MANUALLY OPERATED SHADES WITH SINGLE ROLLERS

A. Chain-and-Clutch Operating Mechanisms: With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.

1. Bead Chains: Manufacturer's standard.

a. Loop Length: Full length of roller shade.
b. Limit Stops: Provide upper and lower ball stops.
c. Chain-Retainer Type: Chain tensioner, jamb mounted.

B. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shadebands for service.

C. Countertops: 1-1/4-inch- (19-mm-) thick, quartz agglomerate. Eased edges.

D. Backsplashes: 3/4-inch- (19-mm-) thick, quartz agglomerate.

E. Fabricate tops with shop-applied edges and backsplashes unless otherwise indicated. Comply with quartz agglomerate manufacturer's written instructions for adhesives, sealers, fabrication, and finishing.

1. Fabricate with loose backsplashes for field assembly.

F. Joints: Fabricate countertops without joints where possible.

G. Joints: Where required, fabricate countertops in sections for joining in field.

1. Joint Locations: Not within 18 inches (450 mm) of a sink or cooktop and not where a countertop section less than 36 inches (900 mm) long would result, unless unavoidable.
2. Joint Type: Bonded, 1/32 inch (0.8 mm) or less in width.
3. Splined Joints: Accurately cut kerfs in edges at joints for insertion of metal splines to maintain alignment of surfaces at joints. Make width of cuts slightly more than thickness of splines to provide snug fit. Provide at least three splines in each joint.

H. Cutouts and Holes:

1. Undercounter Plumbing Fixtures: Make cutouts for fixtures in shop using template or pattern furnished by fixture manufacturer. Form cutouts to smooth, even curves.

a. Provide vertical edges, slightly eased at juncture of cutout edges with top and bottom surfaces of countertop and projecting 3/16 inch (5 mm) into fixture opening.

2. Counter-Mounted Plumbing Fixtures: Prepare countertops in shop for field cutting openings for counter-mounted fixtures. Mark tops for cutouts and drill holes at corners of cutout locations. Make corner holes of largest radius practical.
3. Fittings: Drill countertops in shop for plumbing fittings, undercounter soap dispensers, and similar items.

2.3 INSTALLATION MATERIALS

A. Adhesive: Product recommended by quartz agglomerate manufacturer.

B. Sealant for Countertops: Comply with applicable requirements in Section 07 92 00 "Joint Sealants."

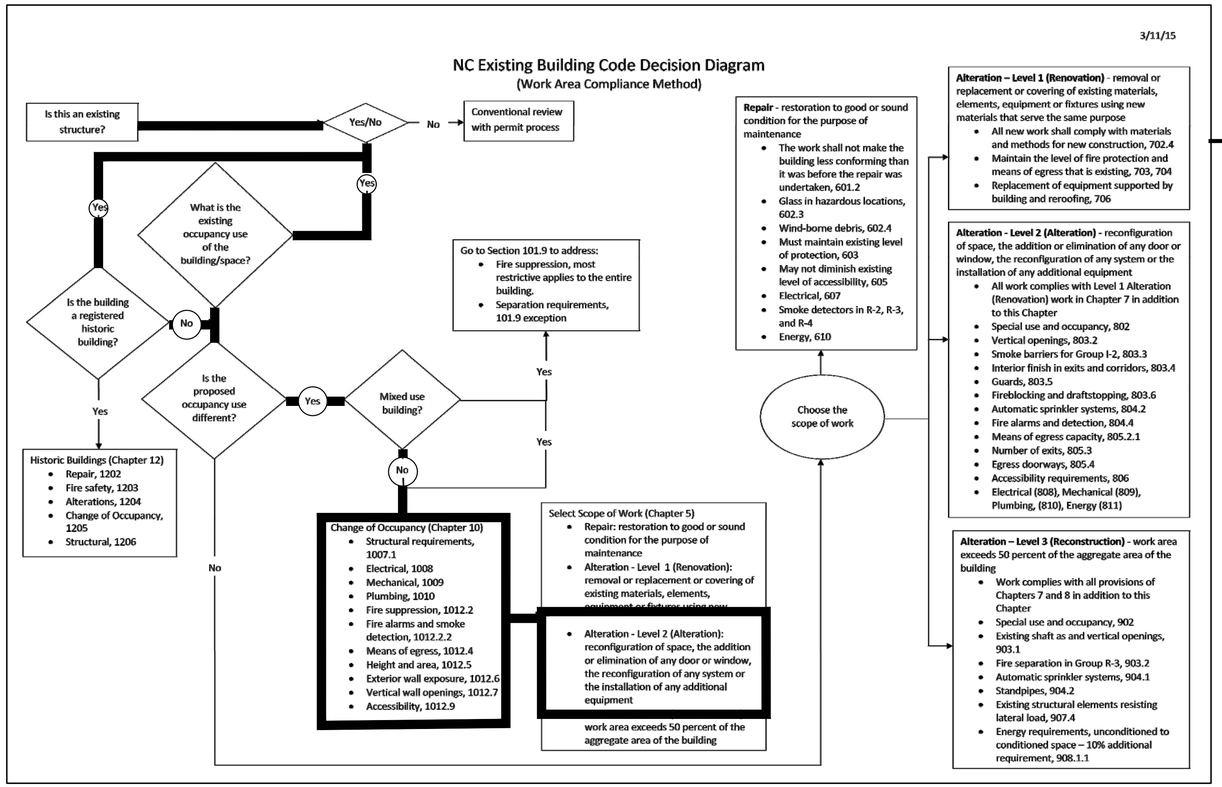
PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates to receive quartz agglomerate countertops and conditions under which countertops will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of countertops.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

NC GLOBAL TRANSPARK TERMINAL BUILDING RENOVATIONS: PHASE 3



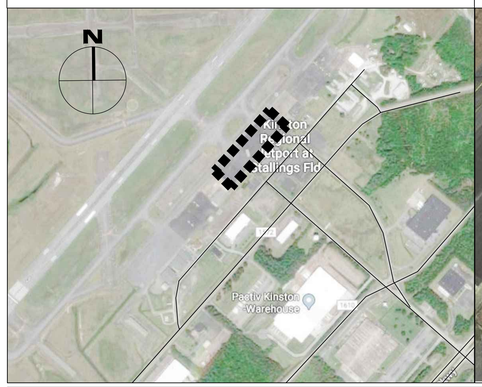
ARCHITECT:
MHAworks, PA
409 South Evans Street, Suite C
Greenville, North Carolina 27858
Phone: 252-329-0119
Contact: John Millacca, AIA
Email: jmillacca@mhaworks.com

PME:
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

STRUCTURAL:
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

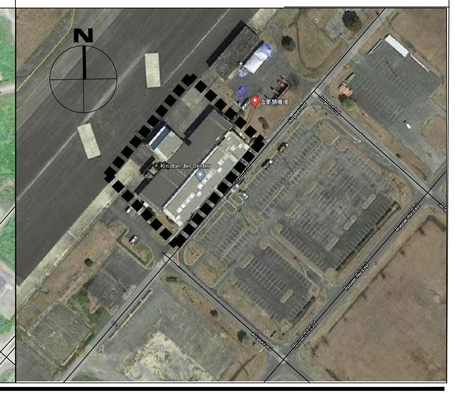
VICINITY MAP

PROJECT LOCATION:
2860 Jetport RD
Kinston, North Carolina

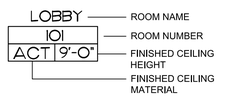


LOCATION MAP

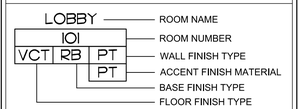
PROJECT LOCATION:
2860 Jetport Rd
Kinston, North Carolina



RCP FINISH SYMBOLS



ROOM FINISH SYMBOLS



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

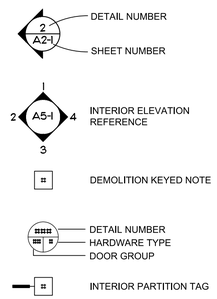
LIFE SAFETY SYMBOLS

- ACTUAL EXIT DOOR OCCUPANT LOAD
- 180 — EXIT DOOR CAPACITY
- PH — DOOR W/ PANIC HARDWARE
- FEC — FIRE EXTINGUISHER CABINET
- ILLUMINATED EXIT SIGN
- MAX. TRAVEL DISTANCE

ARCHITECTURAL ABBREVIATIONS

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

PLAN SYMBOLS



RCP SYMBOLS

- RECESSED CAN LIGHT
- 2x4 LIGHT FIXTURE
- LINEAR PENDANT STYLE LIGHT FIXTURE
- EMERGENCY EXIT LIGHTING DEVICE
- 2'X2' HVAC SUPPLY GRILLE
- 2'X2' HVAC RETURN GRILLE
- ILLUMINATED EXIT SIGN
- WALL MOUNTED LIGHT FIXTURE
- HANGING PENDANT FIXTURE

INDEX OF DRAWINGS

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 2024

MHAworks, P.A. Architecture, Engineering, Interiors, Landscape Architecture, North Carolina 50455 DURHAM, NC

JOHN MILLACCA REGISTERED ARCHITECT 06-01-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark Terminal Building: Phase 3
2860 Jetport Road
Kinston, North Carolina

REVISIONS:

#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

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**

SHEET NUMBER
T1-1

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**
OWNER OR AUTHORIZED AGENT: **Gage King** PHONE #: **252.775.6121** ZIP CODE: **28504**
E-MAIL: **gking@ncdot.gov**
OWNED BY: [ ] CITY/COUNTY [ ] PRIVATE [X] STATE
CODE ENFORCEMENT JURISDICTION: [ ] CITY: **Kinston** [X] COUNTY: **Lenoir** [ ] STATE: **North Carolina**

CONTACT:

DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE	E-Mail
ARCHITECTURAL:	**MHAworks, PA**	**John Milacca, AIA**	**14263**	**252.329.0119**	**jmilacca@mhaworks.com**
CIVIL:					
ELECTRICAL:	**Engineering Source of NC, P.A.**	**Wilson Pou**	**NC PE 021993**	**252.439.0338**	**wilson@engrsource.com**
FIRE ALARM:	**Engineering Source of NC, P.A.**	**Wilson Pou**	**NC PE 021993**	**252.439.0338**	**wilson@engrsource.com**
PLUMBING:	**Engineering Source of NC, P.A.**	**Wilson Pou**	**NC PE 021993**	**252.439.0338**	**wilson@engrsource.com**
MECHANICAL:	**Engineering Source of NC, P.A.**	**Wilson Pou**	**NC PE 021993**	**252.439.0338**	**wilson@engrsource.com**
SPRINKLER/STANDPIPE:					
STRUCTURAL:	**RPA Engineering**	**Mark S. Roy, PE**	**17348**	**252.321.6207**	**Mark.Roy@rpaengineering.com**
RETAINING WALLS >5' HIGH:					
OTHER:					

2018 NC BUILDING CODE: [ ] NEW CONSTRUCTION [ ] SHELL/CORE [ ] 1ST TIME INTERIOR COMPLETIONS
[ ] ADDITION [ ] PHASED CONSTRUCTION - SHELL CORE

2018 NC EXISTING BUILDING CODE: (CHECK ALL THAT APPLY)
[ ] PRESCRIPTIVE [ ] ALTERATION LEVEL I [ ] HISTORIC PROPERTY
[ ] REPAIR [X] ALTERATION LEVEL II [ ] CHANGE OF USE
[ ] CHAPTER 14 [ ] ALTERATION LEVEL III

CONSTRUCTED *(date)* **1976**
RENOVATED *(date)* **2019**
CURRENT OCCUPANCY(S) *(Ch. 3)* **Assembly (A) - Terminal Building**
PROPOSED OCCUPANCY(S) *(Ch. 3)* **Business (B)**

RISK CATEGORY *(Table 1604.5)*: **CURRENT:** [ ] I [X] II [ ] III [ ] IV
PROPOSED: [ ] I [X] II [ ] III [ ] IV

BASIC BUILDING DATA:

CONSTRUCTION TYPE: (Check all that apply)	[ ] I-A	[ ] I-B	[ ] II-A	[X] II-B	[ ] III-A	[ ] III-B	[ ] IV	[ ] V-A	[ ] V-B
SPRINKLERS:	[X] NO	[ ] PARTIAL	[ ] YES	[ ] NFPA 13	[ ] NFPA 13R	[ ] NFPA 13D			
STANDPIPES:	[X] NO	[ ] YES	CLASS: [ ] I	[ ] II	[ ] III	[ ] WET	[ ] DRY		
FIRE DISTRICT:	[X] NO	[ ] YES	FLOOD HAZARD AREA:	[X] NO	[ ] YES				
SPECIAL INSPECTIONS REQUIRED:	[X] NO	[ ] YES							

GROSS BUILDING AREA:

FLOOR	EXISTING (SQ. FT.)	WORK AREA (SQ. FT.)	SUB TOTAL
MEZZANINE: (MEZZANINE PREP FOR FUTURE UPFIT: NO CURRENT OCCUPANCY)			
1ST FLOOR:	+/- 24,300 sq. ft.	+/- 8,875 sq. ft.	+/- 24,300 sq. ft.
TOTAL:	+/- 24,300 sq. ft.	+/- 8,875 sq. ft.	+/- 24,300 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

PRIMARY OCCUPANCY:

ASSEMBLY	[ ] A-1	[ ] A-2	[ ] A-3	[ ] A-4	[ ] A-5	
BUSINESS	[X]					
EDUCATIONAL	[ ]					
FACTORY	[ ] F-1 Moderate	[ ] F-2 Low				
HAZARDOUS	[ ] H-1 Detonate	[ ] H-2 Deflagrate	[ ] H-3 Combust	[ ] H-4 Health	[ ] H-5 HPM	
INSTITUTIONAL	[ ] I-1	[ ] I-2	[ ] I-3	[ ] I-4		
I-1 USE CONDITION	[ ] 1	[ ] 2				
I-2 USE CONDITION	[ ] 1	[ ] 2				
I-3 USE CONDITION	[ ] 1	[ ] 2	[ ] 3	[ ] 4	[ ] 5	
MERCANTILE	[ ]					
RESIDENTIAL	[ ] R-1	[ ] R-2	[ ] R-3	[ ] R-4		
STORAGE	[ ] S-1 Moderate	[ ] S-2 Low	[ ] High-piled			
	[ ] Parking Garage	[ ] Open	[ ] Enclosed	[ ] Repair Garage		
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

MIXED OCCUPANCY: [ ] YES [X] NO SEPARATION: _____ HR: EXCEPTION: _____

[ ] 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.

ACTUAL AREA OF OCCUPANCY A / ALLOWABLE AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B / ALLOWABLE AREA OF OCCUPANCY B + ... = _____ < 1.00

STORY NUMBER	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)	(B) TABLE 506.2[1] AREA	(C) AREA FOR FRONTAGE INCREASE [1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED [2,3]
1	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)
e. Percent of frontage increase I$_f$ = 100 [F/P - 0.25] x W/30 = 75 (%)

[2] UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
[3] MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING X D (MAXIMUM 3 STORIES) (506.2).
[4] 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
[5] FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2.

ALLOWABLE HEIGHT:

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE [1]
BUILDING HEIGHT IN FEET (Table 504.3)	55'	37'-5"	Table 504.3
BUILDING HEIGHT IN STORIES (Table 504.4)	3	1	Table 504.4

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

FIRE PROTECTION REQUIREMENTS:

Notes:

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/___* REDUCTION)	DETAIL # & SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES		0	0				
BEARING WALLS							
EXTERIOR							
NORTH	>30 FEET	0	0				
EAST	>30 FEET	0	0				
WEST	>30 FEET	0	0				
SOUTH	>20 FEET	0	0				
INTERIOR		0	0				
NON-BEARING WALLS & PARTITIONS		0	0				
EXTERIOR WALLS							
NORTH		0	0				
EAST		0	0				
WEST		0	0				
SOUTH		0	0				
INTERIOR WALLS AND PARTITIONS							
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS		0	0				
FLOOR CEILING ASSEMBLY		0	0				
COLUMNS SUPPORTING FLOORS		0	0				
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS		0	0				
ROOF CEILING ASSEMBLY		0	0				
COLUMNS SUPPORTING ROOFS		0	0				
SHAFT ENCLOSURES - EXIT		N/A	N/A				
SHAFT ENCLOSURES - OTHER		N/A	N/A				
CORRIDOR SEPARATION (EGRESS)		N/A	N/A				
OCCUPANCY/FIRE BARRIER SEPARATION		N/A	N/A				
PARTY/FIRE WALL SEPARATION		N/A	N/A				
SMOKE BARRIER SEPARATION		N/A	N/A				
SMOKE PARTITION		N/A	N/A				
TENANT/DWELLING UNIT/ SLEEPING UNIT SEPARATION		N/A	N/A				
INCIDENTAL USE SEPARATION		N/A	N/A				

UNCHANGED

* INDICATE SECTION NUMBER PERMITTING REDUCTION

PERCENTAGE OF WALL OPENING CALCULATIONS:

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING:	[ ] NO	[X] YES
EXIT SIGNS:	[ ] NO	[X] YES
FIRE ALARM:	[ ] NO	[X] YES
SMOKE DETECTION SYSTEMS:	[ ] NO	[ ] YES [X] Partial
PANIC HARDWARE:	[ ] NO	[X] YES

LIFE SAFETY PLAN REQUIREMENTS:

LIFE SAFETY PLAN SHEET#: T1-3

- [ ] Fire and/or smoke rated wall locations (Chapter 7) N/A
- [ ] Assumed and real property line locations (if not on the site plan) N/A
- [ ] Exterior wall opening area with respect to distance to assumed property lines (705.8) N/A
- [X] Occupancy Use for each area as it related to occupant load calculation (Table 1004.1.2)
- [X] Occupant loads for each area
- [X] Exit access travel distances (1017)
- [X] Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- [ ] Dead end lengths (1020.4)
- [X] Clear exit widths for each exit door
- [X] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- [X] Actual occupant load for each exit door
- [ ] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation N/A
- [ ] Location of doors with panic hardware (1010.1.10) N/A
- [ ] Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) N/A
- [ ] Location of doors with electromagnetic egress locks (1010.1.9.9) N/A
- [ ] Location of doors equipped with hold-open devices N/A
- [ ] Location of emergency escape windows (1030) N/A
- [ ] The square footage of each fire area (202) N/A
- [ ] The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) N/A
- [ ] Note any code exceptions or table notes that may have been utilized regarding the items above N/A

ACCESSIBLE DWELLING UNITS *(SECTION 1107)*:

N/A

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING *(Section 1106)*:

LOT OR PARKING AREA	TOTAL NUMBER OF PARKING SPACES		NUMBER OF ACCESSIBLE SPACES PROVIDED			TOTAL # OF ACCESSIBLE SPACES PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
TOTAL:						

UNCHANGED

PLUMBING FIXTURE REQUIREMENTS *(SECTION 2902.1)*:

USE: Business		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXISTING	2	2	-	-	2	2	1	-	-	-
	REQUIRED	2	2	-	-	2	2	-	-	-	1
	PROVIDED	1	3	1	2	3	3	1	1	1	1

SPECIAL APPROVALS: SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)
AHJ - Lenoir County

ENERGY SUMMARY:

ENERGY REQUIREMENTS:
THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: [X] NO [ ] YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)
EXEMPT BUILDING: [ ] NO [X] YES (PROVIDE CODE OR STATUTORY REFERENCE): **EXISTING BUILDING**
CLIMATE ZONE [ ] 3A [ ] 4A [ ] 5A
METHOD OF COMPLIANCE: ENERGY CODE [ ] PERFORMANCE [ ] PRESCRIPTIVE
ASHRAE 90.1 [ ] PERFORMANCE [ ] PRESCRIPTIVE
(IF "OTHER" SPECIFY SOURCE HERE)_____

THERMAL ENVELOPE (Prescriptive method only)

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF TOTAL INSULATION:
SKYLIGHT IN EACH ASSEMBLY
u-value of skylight:
total square footage of skylights in each assembly:

EXTERIOR WALLS (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF INSULATION:
OPENING (windows):
u-value of assembly:
Solar heat gain coefficient:
projection factor: .
OPENING (doors with glazing):
u-value of assembly:
Solar heat gain coefficient:
projection factor:
Door R-Values:

WALLS BELOW GRADE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF TOTAL INSULATION:

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF TOTAL INSULATION:

FLOORS SLAB ON GRADE
DESCRIPTION OF ASSEMBLY:
U-VALUE OF TOTAL ASSEMBLY:
R-VALUE OF TOTAL INSULATION:
Horizontal / vertical requirement:
Slab heated? (Y/N)

STRUCTURAL DESIGN *(PROVIDE ON THE STRUCTURAL SHEET IF APPLICABLE)*

DESIGN LOADS:

IMPORTANCE FACTORS: WIND (Iw) _____ SNOW (Is) _____ SEISMIC (Ie) _____
LIVE LOADS: ROOF _____ psf MEZZANINE _____ psf FLOOR _____ psf
GROUND SNOW LOAD: _____ psf
WIND LOAD: BASIC WIND SPEED _____ mph (ASCE-10) EXPOSURE CATEGORY _____
SEISMIC DESIGN CATEGORY: [ ] A [ ] B [ ] C [ ] D

UNCHANGED

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
OCCUPANCY CATEGORY: (TABLE 1604.5) [ ] I [ ] II [ ] III [ ] IV
SPECTRAL RESPONSE ACCELERATION: S_s= _____ S_g S_1= _____ S_g
SITE CLASSIFICATION: (ASCE 7) [ ] A [ ] B [ ] C [ ] D [ ] E [ ] F
Data Source: [ ] FIELD TEST [ ] PRESUMPTIVE [ ] HISTORICAL DATA
BASIC STRUCTURAL SYSTEM (CHECK ONE):
[ ] BEARING WALL [ ] DUAL WITH SPECIAL MOMENT FRAME
[ ] BUILDING FRAME [ ] DUAL WITH INTERMEDIATE R/C OR SPECIAL STEEL
[ ] MOMENT FRAME [ ] INVERTED PENDULUM
ANALYSIS PROCEDURE: [ ] SIMPLIFIED [ ] EQUIVALENT LATERAL FORCE [ ] DYNAMIC
ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? [ ] YES [ ] NO
LATERAL DESIGN CONTROL: EARTHQUAKE [ ] WIND [ ]
SOIL BEARING CAPACITIES: FIELD TEST (PROVIDE COPY OF TEST REPORT) _____ psf
PRESUMPTIVE BEARING CAPACITY _____ psf
PILE SIZE, TYPE, AND CAPACITY _____ psf

MECHANICAL SUMMARY *(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)*

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

REFER TO MECHANICAL PLANS

THERMAL ZONE
WINTER DRY BULB:
SUMMER DRY BULB:
INTERIOR DESIGN CONDITIONS
WINTER DRY BULB:
SUMMER DRY BULB:
RELATIVE HUMIDITY:
BUILDING HEATING LOAD:
BUILDING COOLING LOAD:
MECHANICAL SPACING CONDITIONING SYSTEM
UNITARY
description of unit
heating efficiency
cooling efficiency
size category of unit
BOILER
total boiler output, If oversized, state reason
CHILLER
total chiller capacity, If oversized, state reason
LIST EQUIPMENT EFFICIENCIES

ELECTRICAL SUMMARY *(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)*

ELECTRICAL SYSTEM AND EQUIPMENT

REFER TO ELECTRICAL PLANS

METHOD OF COMPLIANCE:
ENERGY CODE [ ] PERFORMANCE [X] PRESCRIPTIVE
ASHRAE 90.1 [ ] PERFORMANCE [ ] PRESCRIPTIVE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)
LAMP TYPE REQUIRED IN FIXTURE
NUMBER OF LAMPS IN FIXTURE
BALLAST TYPE USED IN THE FIXTURE
NUMBER OF BALLASTS IN FIXTURE
TOTAL WATTAGE PER FIXTURE
TOTAL INTERIOR WATTAGE ALLOWED (WHOLE BUILDING OR SPACE BY SPACE) **NOT IN CONTRACT**
TOTAL EXTERIOR WATTAGE ALLOWED VS ALLOWED **240W VS. 1350W**

ADDITIONAL PRESCRIPTIVE COMPLIANCE
- [ ] 506.2.1 More Efficient Mechanical Equipment
- [X] 506.2.2 Reduced Lighting Power Density
- [ ] 506.2.3 Energy Recovery Ventilation Systems
- [ ] 506.2.4 Higher Efficiency Service Water Heating
- [ ] 506.2.5 On-Site Supply Renewable Energy
- [ ] 506.2.6 Automatic Daylighting Control Systems

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JOHN MILACCA REGISTERED ARCHITECT 06-04-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark Terminal Building: Phase 3

2860 Jetport Road
Kinston, North Carolina

REVISIONS:

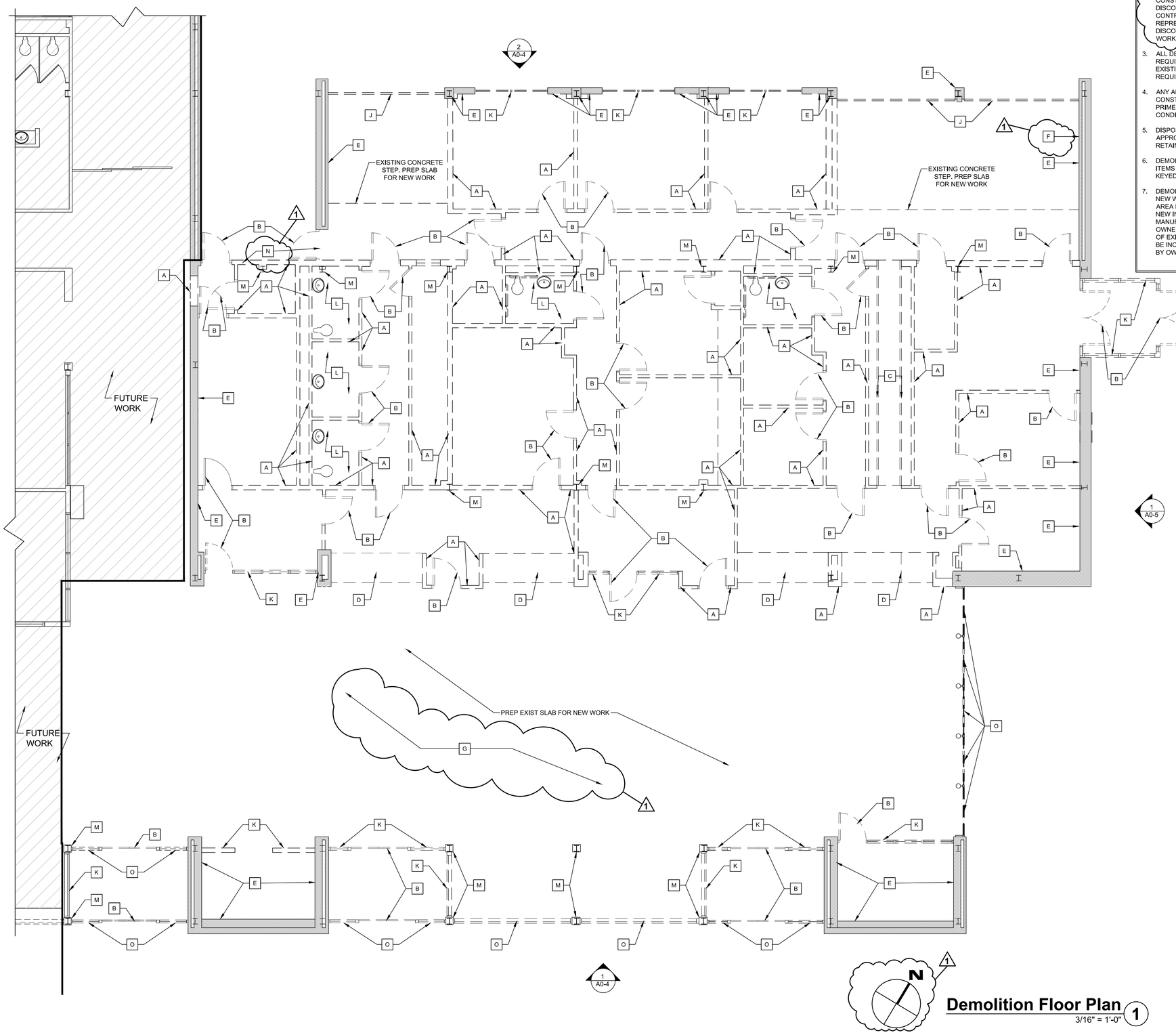
#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

SHEET NAME:
Appendix B Code Summary

PHASE:
Construction Documents

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

SHEET NUMBER
T1-2



Demolition Floor Plan 1

3/16" = 1'-0"

General Demolition Notes

1. REFERENCE RENOVATION SHEETS FOR NEW WORK.
2. GC IS RESPONSIBLE FOR ANY ABATEMENT. REFER TO SPECS FOR HAZARDOUS MATERIALS REPORT. G.C. SHALL BE RESPONSIBLE FOR REVIEW OF THE PROVIDED HAZARDOUS MATERIAL TEST REPORTS AND SHALL DISPOSE OF ANY IDENTIFIED HAZARDOUS MATERIALS IN THE PROPER MANNER. IF DURING CONSTRUCTION OPERATIONS CONTRACTOR DISCOVERS MATERIALS THAT ARE HAZARDOUS, CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE AND ARCHITECT REGARDING DISCOVERY OF SUCH MATERIALS AND SHALL CEASE WORK IMMEDIATELY.
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.
7. 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.
8. COORDINATE DEMOLITION AND PREPARATION OF PLUMBING/HVAC/ELECTRICAL/TELE/DATA ITEMS WITH PME DRAWINGS.
9. OFFER OWNER FIRST RIGHT OF REFUSAL FOR ANY IMPACTED AUDIO/VISUAL EQUIPMENT.
10. RELOCATE ALL FIRE AND EMERGENCY DEVICES. REFER TO LIFE SAFETY, ELECTRICAL, AND FIRE ALARM SHEETS FOR INSTALLATION OF 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 & CURTAIN WALL AS NOTED. PREPARE EXISTING OPENINGS FOR INSTALLATION OF NEW STOREFRONT & CURTAIN WALL IN SAME LOCATIONS OR AS NOTED ON RENOVATION SHEETS.
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. REFER TO ELECTRICAL SHEETS FOR ALL EXISTING AND NEW DEVICES.
18. NO DEMOLITION TO EXISTING ROOF.

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 CONVEYING SYSTEM. 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 EXISTING FAN. PREPARE FOR NEW INFILL.
- G DEMOLISH EXISTING CARPET, VCT, TILE, 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, SOFFITS, AND OTHER CEILING MOUNTED ITEMS. PREPARE SPACE TO RECEIVE NEW CEILING.
- I DEMOLISH EXISTING PLUMBING FIXTURE.
- J DEMOLISH ROLL-UP METAL DOOR.
- K DEMOLISH GLAZING AND ASSOCIATED FRAMES.
- L 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 EXTERIOR WALLS AS SHOWN ON DEMOLITION SHEETS ADJACENT TO DEMOLISHED DOORS ON THE REAR AND SIDE OF THE BUILDING. PREPARE FOR NEW DOOR AND FRAME IN NEW LOCATION.
- O DEMOLISH ALL EXTERIOR GLAZING, MULLIONS, SIGNS, AND TRANSOM PANELS. PREP FOR INSTALLATION OF NEW STOREFRONT AND CURTAIN WALL IN SAME LOCATIONS. REF. A2-2 FOR NEW WORK.
- P IF ALTERNATE #2 IS ACCEPTED, DEMOLISH EXISTING METAL LOUVER PANELS. PREPARE SPACE RECEIVE NEW CURTAIN WALL SYSTEM.

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JOHN MILIACCA REGISTERED ARCHITECT 06-04-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark
Terminal Building: Phase 3
2860 Jetport Road
Kinston, North Carolina

REVISIONS:

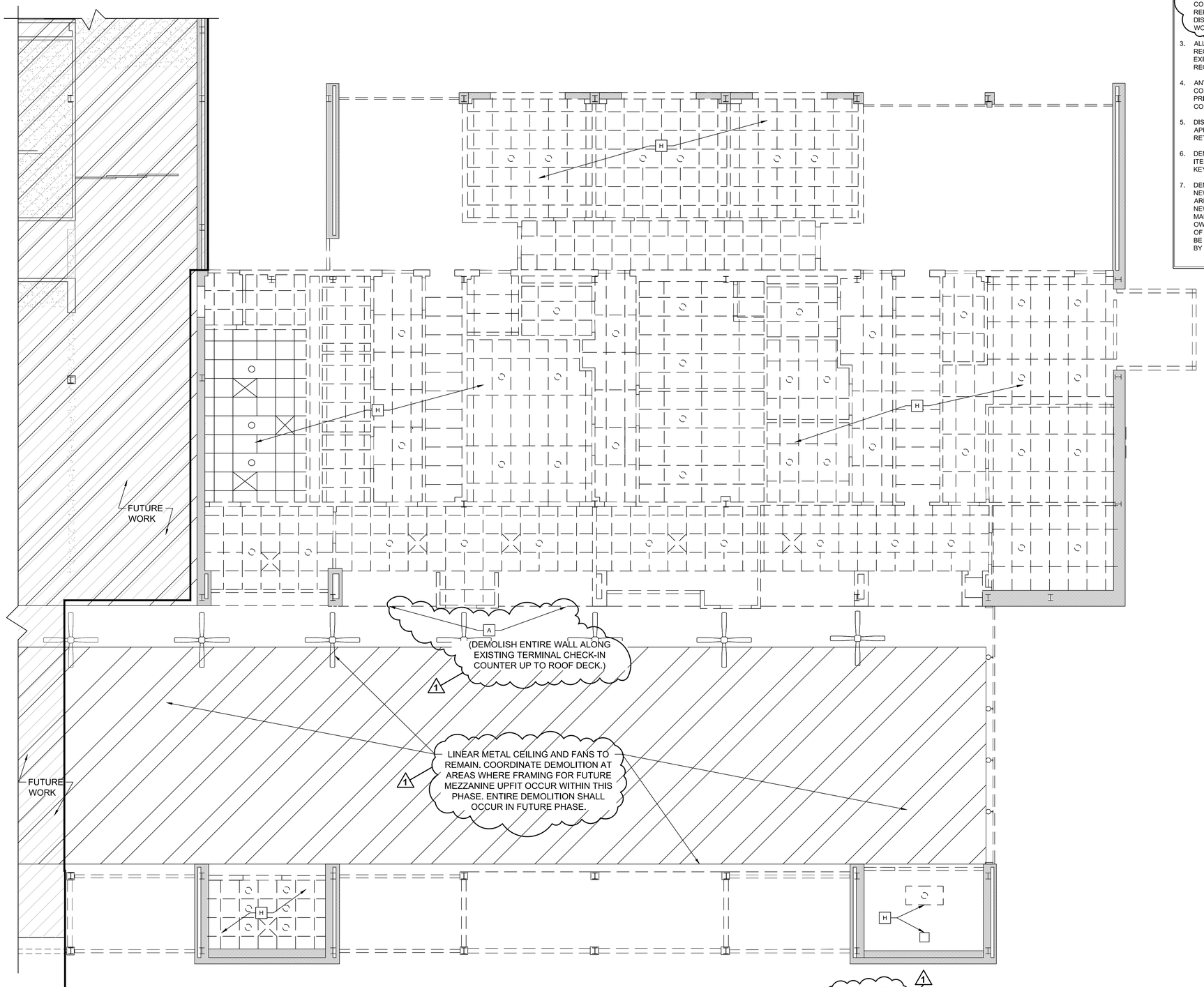
#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

SHEET NAME:
Enlarged Demolition Floor Plan

PHASE:
Construction Documents

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

SHEET NUMBER
A0-1



Demolition Reflected Ceiling Plan (1)

3/16" = 1'-0"

General Demolition Notes

1. REFERENCE RENOVATION SHEETS FOR NEW WORK.
2. GC IS RESPONSIBLE FOR ANY ABATEMENT. REFER TO SPECS FOR HAZARDOUS MATERIALS REPORT. G.C. SHALL BE RESPONSIBLE FOR REVIEW OF THE PROVIDED HAZARDOUS MATERIAL TEST REPORTS AND SHALL DISPOSE OF ANY IDENTIFIED HAZARDOUS MATERIALS IN THE PROPER MANNER. IF DURING CONSTRUCTION OPERATIONS CONTRACTOR DISCOVERS MATERIALS THAT ARE HAZARDOUS, CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE AND ARCHITECT REGARDING DISCOVERY OF SUCH MATERIALS AND SHALL CEASE WORK IMMEDIATELY.
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.
7. 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.
8. COORDINATE DEMOLITION AND PREPARATION OF PLUMBING/HVAC/ELECTRICAL/TELE/DATA ITEMS WITH PME DRAWINGS.
9. OFFER OWNER FIRST RIGHT OF REFUSAL FOR ANY IMPACTED AUDIO/VISUAL EQUIPMENT.
10. RELOCATE ALL FIRE AND EMERGENCY DEVICES. REFER TO LIFE SAFETY, ELECTRICAL, AND FIRE ALARM SHEETS FOR INSTALLATION OF 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 & CURTAIN WALL AS NOTED. PREPARE EXISTING OPENINGS FOR INSTALLATION OF NEW STOREFRONT & CURTAIN WALL IN SAME LOCATIONS OR AS NOTED ON RENOVATION SHEETS.
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. REFER TO ELECTRICAL SHEETS FOR ALL EXISTING AND NEW DEVICES.
18. NO DEMOLITION TO EXISTING ROOF.

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 CONVEYING SYSTEM. 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 EXISTING FAN. PREPARE FOR NEW INFILL
- G DEMOLISH EXISTING CARPET, VCT, TILE 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, SOFFITS, AND OTHER CEILING MOUNTED ITEMS. PREPARE SPACE TO RECEIVE NEW CEILING.
- I DEMOLISH EXISTING PLUMBING FIXTURE.
- J DEMOLISH ROLL-UP METAL DOOR.
- K DEMOLISH GLAZING AND ASSOCIATED FRAMES.
- L 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 EXTERIOR WALLS AS SHOWN ON DEMOLITION SHEETS ADJACENT TO DEMOLISHED DOORS ON THE REAR AND SIDE OF THE BUILDING. PREPARE FOR NEW DOOR AND FRAME IN NEW LOCATION.
- O DEMOLISH ALL EXTERIOR GLAZING, MULLIONS, SIGNS, AND TRANSOM PANELS. PREP FOR INSTALLATION OF NEW STOREFRONT AND CURTAIN WALL IN SAME LOCATIONS REF. A2-2 FOR NEW WORK.
- P IF ALTERNATE #2 IS ACCEPTED, DEMOLISH EXISTING METAL LOUVER PANELS. PREPARE SPACE RECEIVE NEW CURTAIN WALL SYSTEM.

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JOHN MILIACCA REGISTERED ARCHITECT 06-04-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark Terminal Building: Phase 3

2860 Jetport Road
Kinston, North Carolina

REVISIONS:

#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

SHEET NAME:
Enlarged Demolition Reflected Ceiling Plan

PHASE:
Construction Documents

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

SHEET NUMBER
A0-3

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 CONVEYING SYSTEM. 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 EXISTING FAN. PREPARE FOR NEW INFILL.

G DEMOLISH EXISTING CARPET, VCT, TILE AND BASE IN PROJECT AREA. PREPARE ALL FLOORS IN PROJECT AREA FOR NEW FLOORING AND ALL WALLS FOR NEW BASE PER MANUFACTURERS REQUIREMENTS.

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8. COORDINATE DEMOLITION AND PREPARATION OF PLUMBING/HVAC/ELECTRICAL/TELE/DATA ITEMS WITH PME DRAWINGS.
9. OFFER OWNER FIRST RIGHT OF REFUSAL FOR ANY IMPACTED AUDIO/VISUAL EQUIPMENT.
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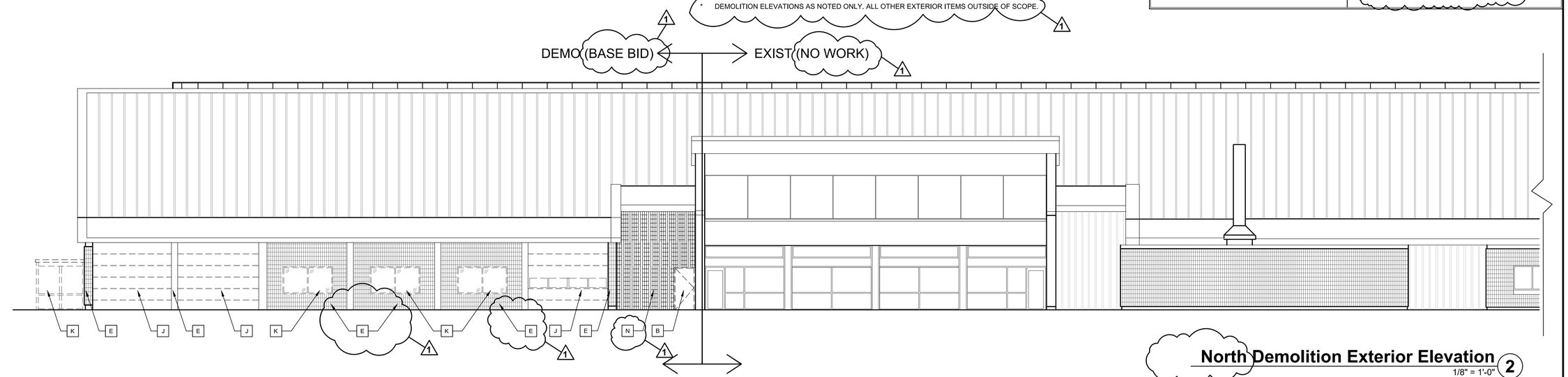
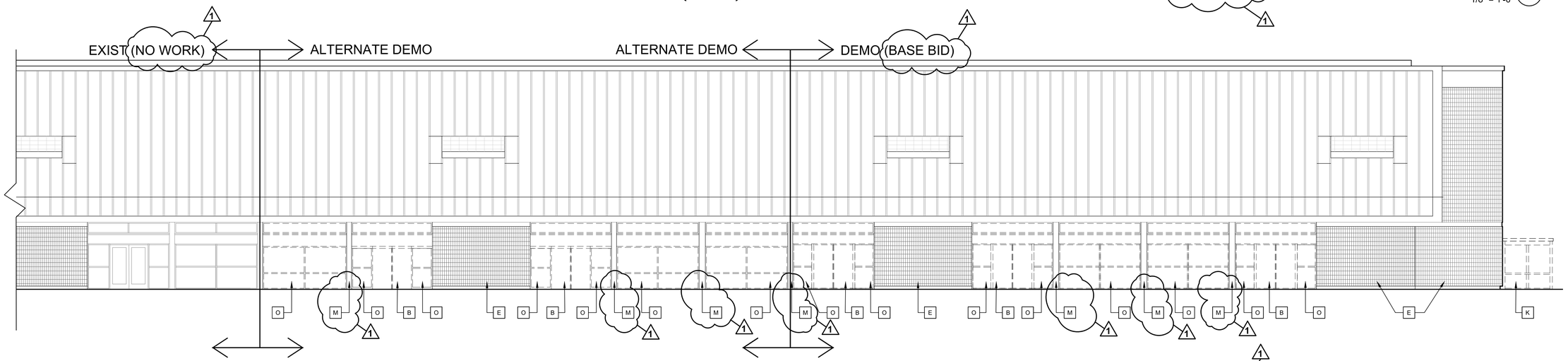
17. REFER TO ELECTRICAL SHEETS FOR ALL EXISTING AND NEW DEVICES.
18. NO DEMOLITION TO EXISTING ROOF.

* DEMOLITION ELEVATIONS AS NOTED ONLY. ALL OTHER EXTERIOR ITEMS OUTSIDE OF SCOPE.



North Demolition Exterior Elevation 2
1/8" = 1'-0"



South Demolition Exterior Elevation 1
1/8" = 1'-0"

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JOHN MILIACCA REGISTERED ARCHITECT 06-04-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark
Terminal Building: Phase 3
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Kinston, North Carolina

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SHEET NAME:
Demolition Exterior Elevations

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Construction Documents

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

SHEET NUMBER
A0-4

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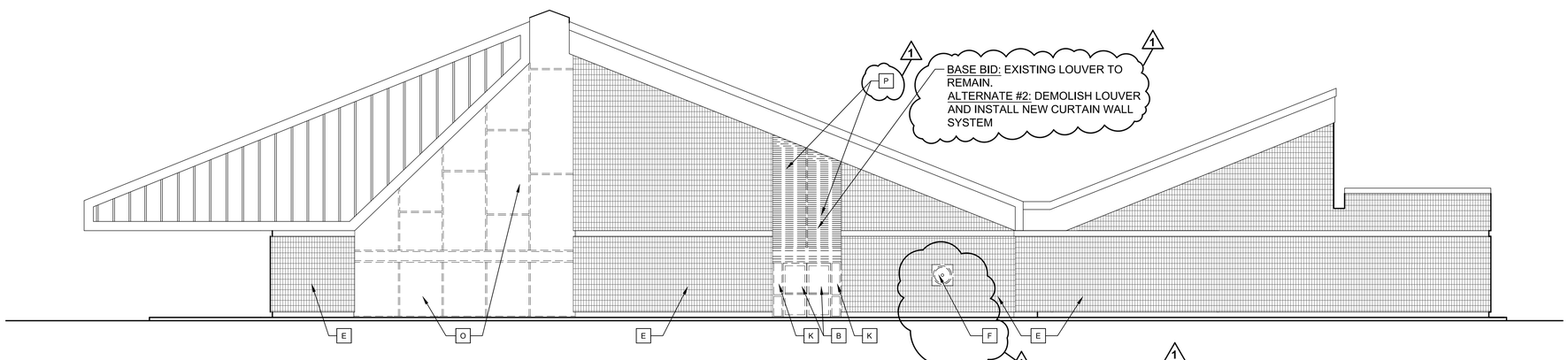

East Demolition Exterior Elevation (1)
1/8" = 1'-0"

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JOHN MILIACCA REGISTERED ARCHITECT 06-04-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark
Terminal Building: Phase 3
2860 Jetport Road
Kinston, North Carolina

REVISIONS:

#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

SHEET NAME:
Demolition Exterior Elevation

PHASE:
Construction Documents

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

SHEET NUMBER
A0-5

GENERAL NOTES

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

KEYS

EXISTING CMU WALL

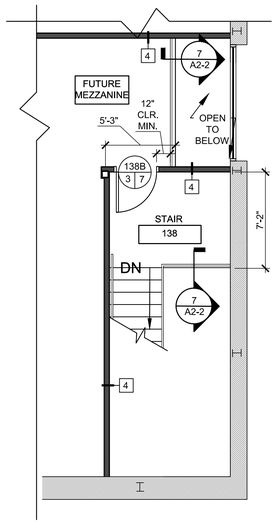
NEW CMU EXTERNAL WALL

NEW INTERIOR WALL

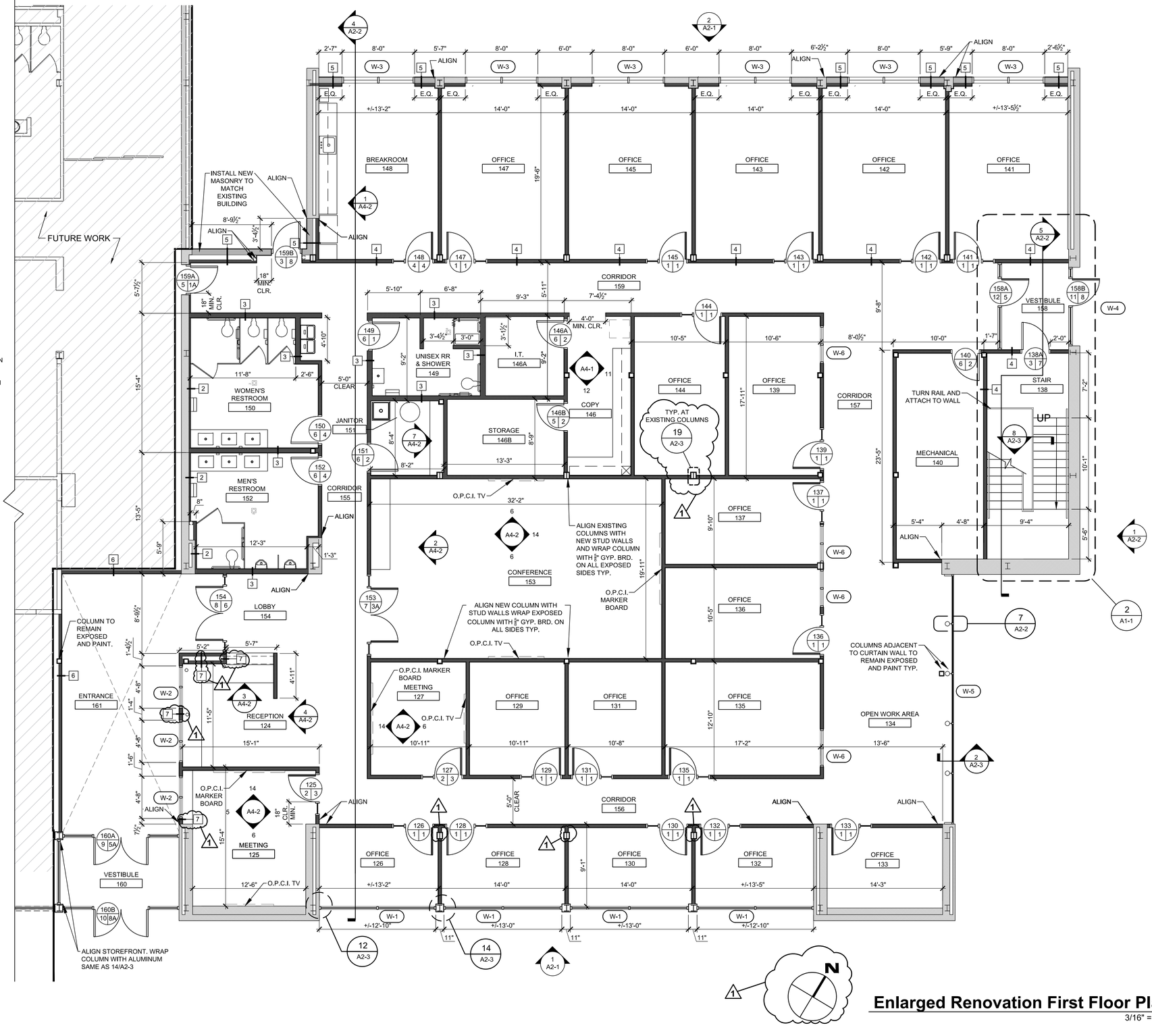
*ALL NEW INTERIOR PARTITIONS TO BE PARTITION TYPE 1: 3-5/8" METAL STUDS SPACED AT 16" O.C. WITH 3-1/2" SOUND ATTENUATION BLANKETS, 5/8" GWB ON BOTH SIDES (ALL EXPOSED SIDES), 4" ABOVE CEILING, UNLESS TAGGED OTHERWISE. REFERENCE A2-3 FOR PARTITION SCHEDULE.

**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 ⅝" 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.



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



Enlarged Renovation First Floor Plan (1)
3/16" = 1'-0"

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A1-1

RCP SYMBOLS

- OFFICE — ROOM NAME
- GWB | 16'-0" — FINISHED CEILING HEIGHT / FINISHED CEILING MATERIAL
- 6" RECESSED FIXTURE
- WALL MOUNTED FIXTURE
- LINEAR HANGING FIXTURE
- HANGING PENDANT FIXTURE
- DOOR LIGHT (WALL MOUNTED)
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- CEILING EXHAUST GRILLE OR FAN
- ILLUMINATED EMERGENCY EXIT SIGN (WALL MOUNTED)
- 2- HEAD EMERGENCY LIGHT (WALL MOUNTED)

*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.

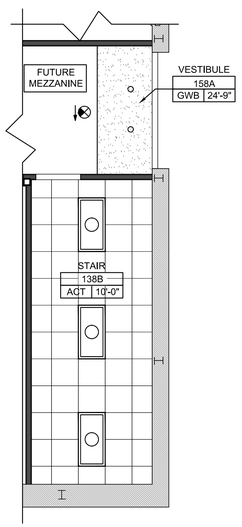
*INSTALL ALL EMERGENCY LIGHTING AND EXIT SIGNS WHERE LOCATED ON PLANS. SEE LIGHTING PLAN FOR MORE DETAILS.

*SEE MECHANICAL AND LIGHTING SHEETS FOR LOCATIONS AND DETAILS.

*INSTALL BATT INSULATION OVER NEW CEILING GRID FOR SOUND ATTENTUATION

Enlarged Reflected Ceiling First Flooor Plan 1

3/16" = 1'-0"



Mezzanine Floor Plan Enlarged Stairwell 2

3/16" = 1'-0"

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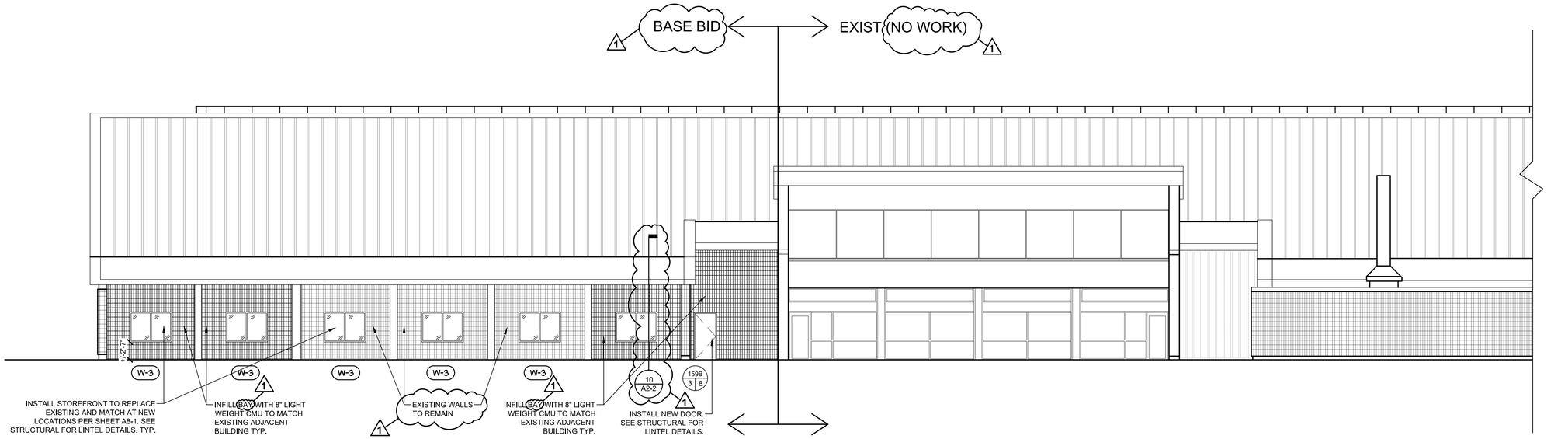
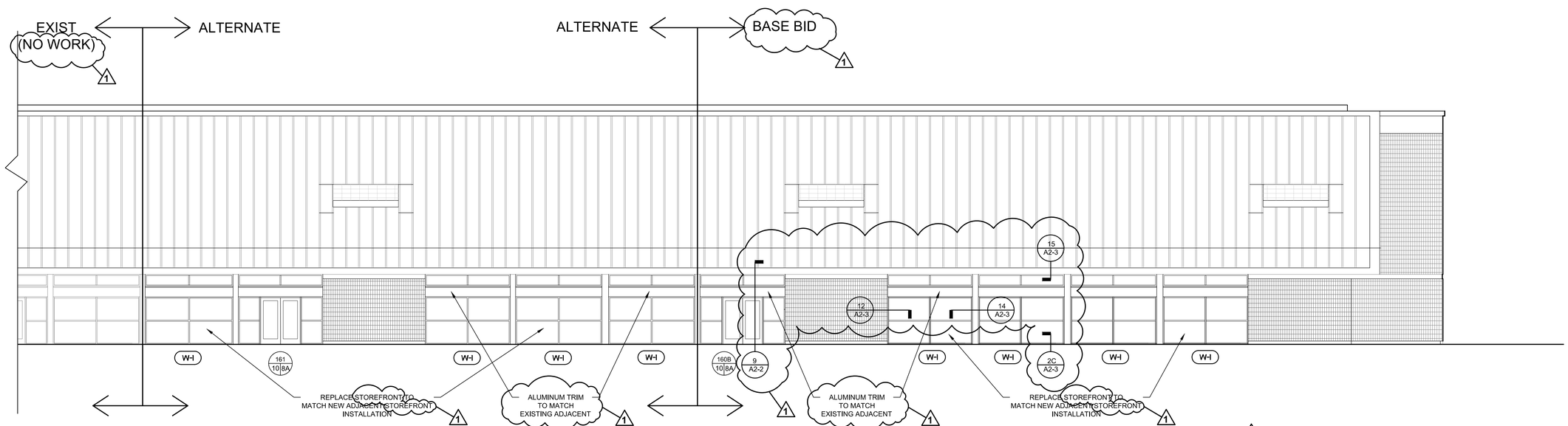
A1-2



North Exterior Renovation Elevation 2
1/8" = 1'-0"



South Exterior Renovation Elevation 1
1/8" = 1'-0"

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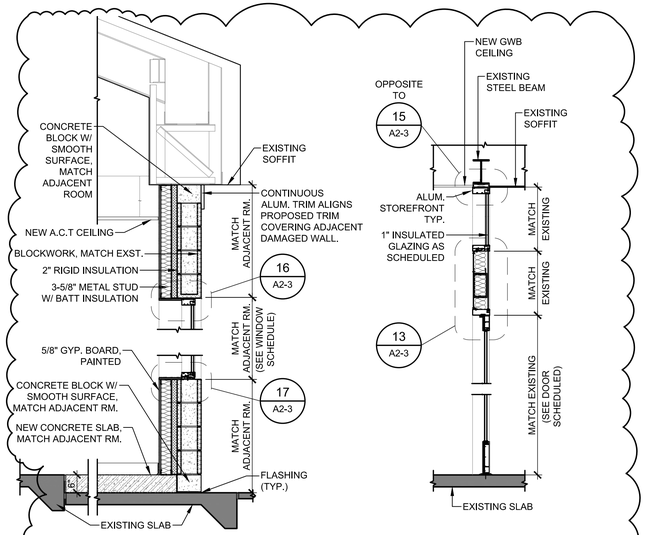
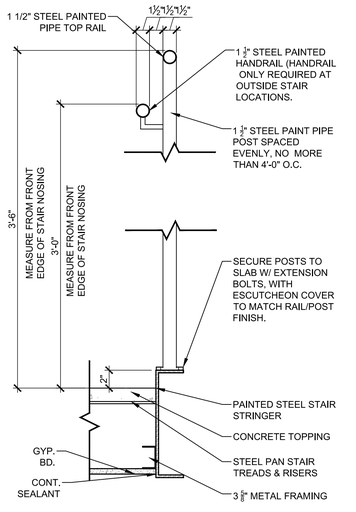
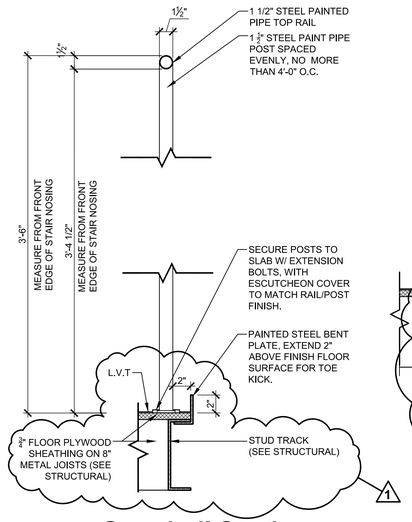


Renovation Wall Section 10
1/2" = 1'-0"

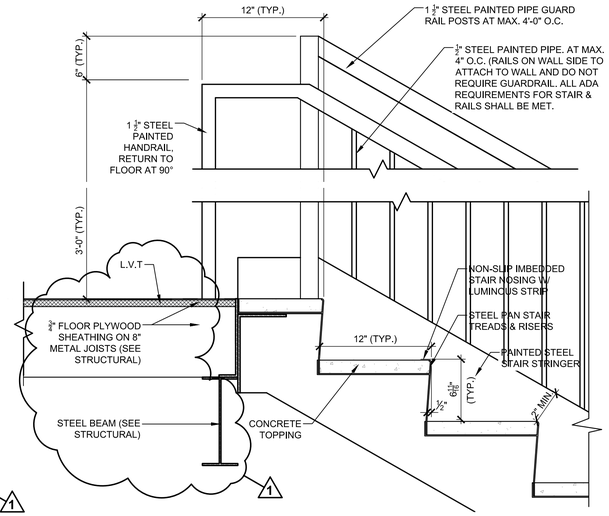
Strorefront Section 9
1/2" = 1'-0"



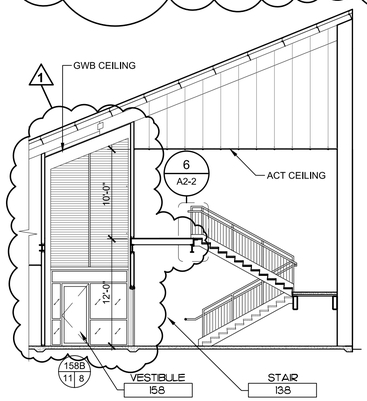
Guardrail & Handrail Section 8
1 1/2"=1'-0"



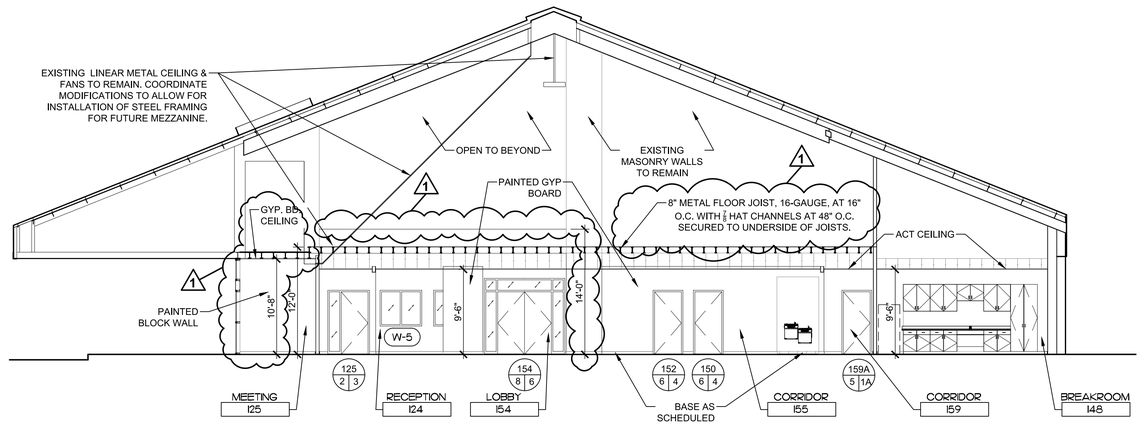
Guardrail Section 7
1 1/2"=1'-0"



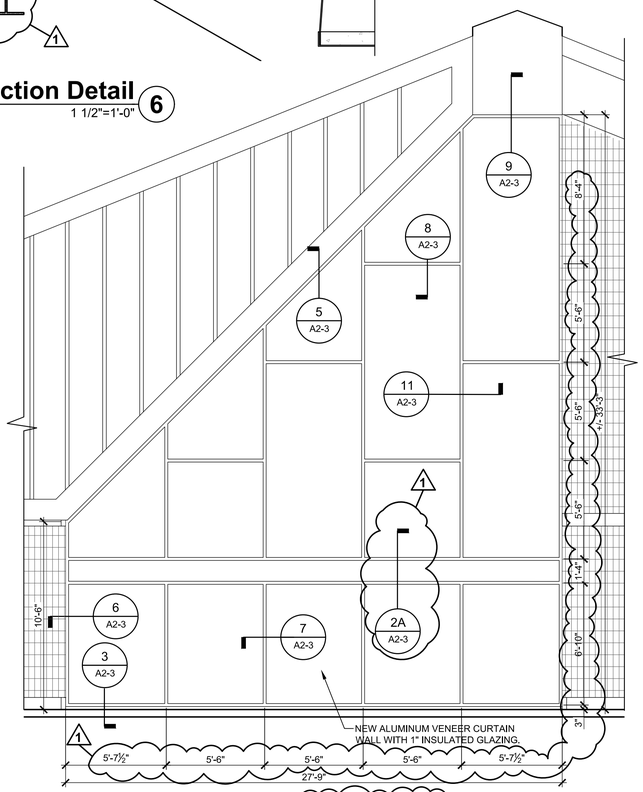
Section Detail 6
1 1/2"=1'-0"



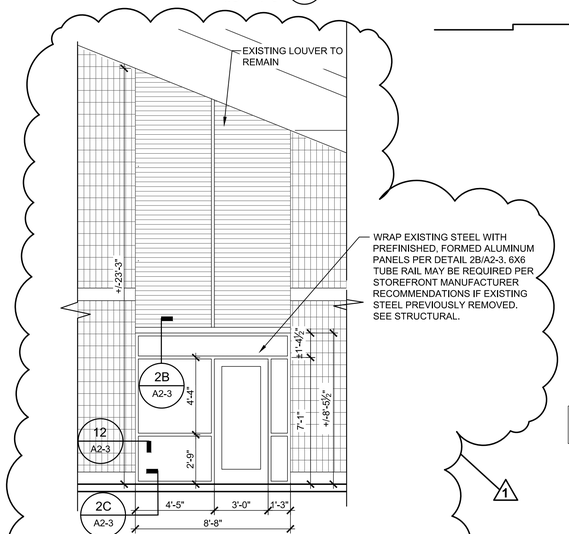
Renovation Section 5
1/8" = 1'-0"



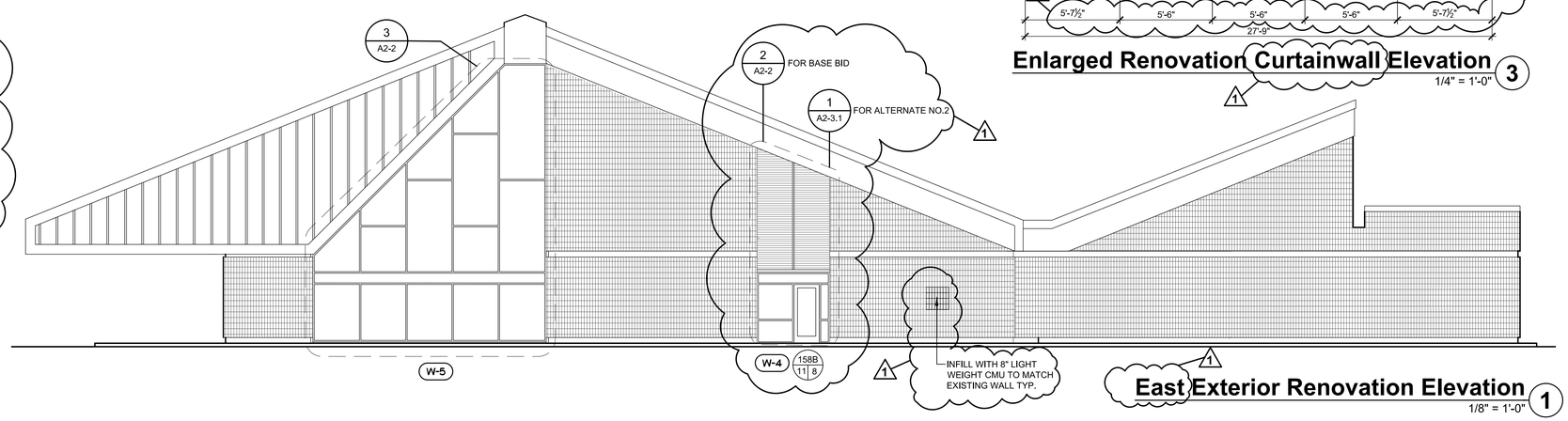
Renovation Section 4
1/8" = 1'-0"



Enlarged Renovation Curtainwall Elevation 3
1/4" = 1'-0"



Base Bid Enlarged Renovation Storefront & Louver Elevation 2
1/4" = 1'-0"



East Exterior Renovation Elevation 1
1/8" = 1'-0"

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JOHN MILIACCA REGISTERED ARCHITECT 06-0-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark Terminal Building: Phase 3

2860 Jetport Road
Kinston, North Carolina

REVISIONS:

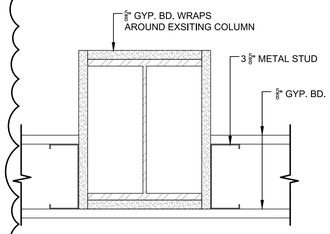
#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

SHEET NAME:
Exterior Building Elevations & Interior Sections

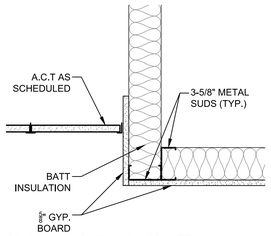
PHASE:
Construction Documents

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

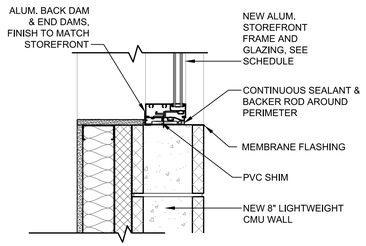
SHEET NUMBER
A2-2



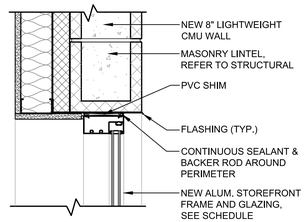
Existing Column Wrap Detail (Typ.) 19
1-1/2" = 1'-0"



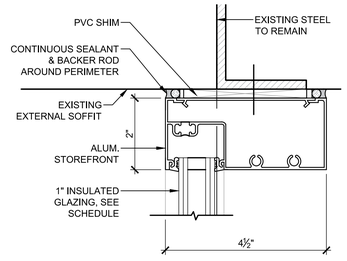
Bulkhead Detail (Typ.) 18
1-1/2" = 1'-0"



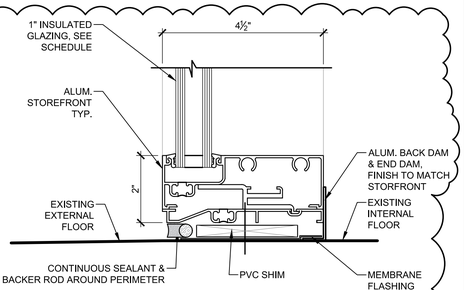
Storefront Detail 17
1-1/2" = 1'-0"



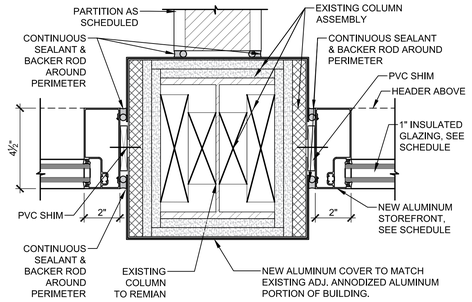
Storefront Detail 16
1-1/2" = 1'-0"



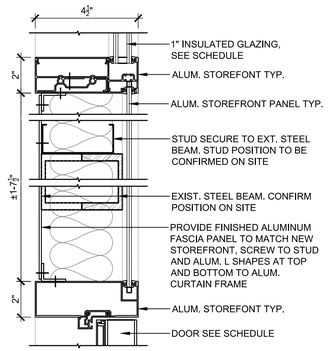
Storefront Detail 15
6" = 1'-0"



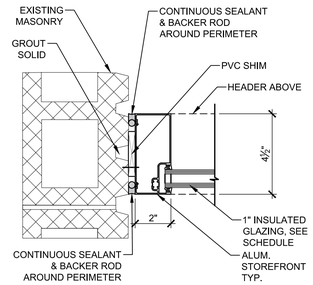
Storefront Sill Section (Typ.) 2C
6"=1'-0"



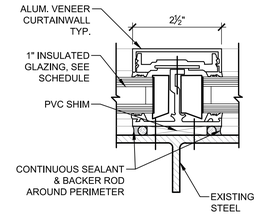
Storefront Plan Detail (Typ.) 14
3" = 1'-0"



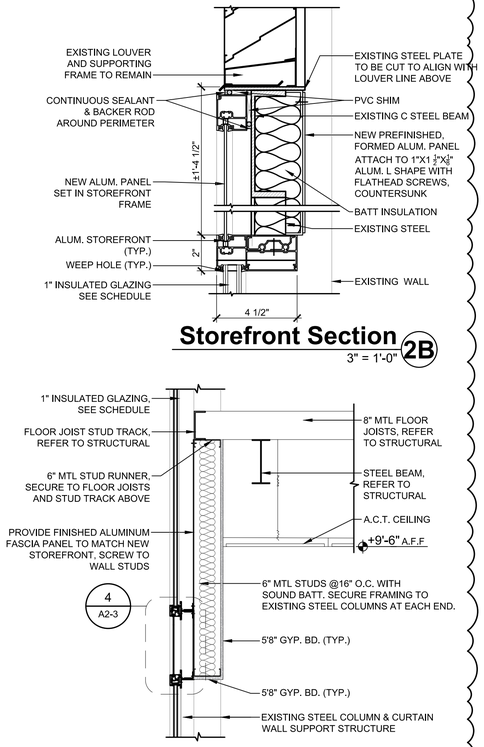
Storefront Detail 13
3" = 1'-0"



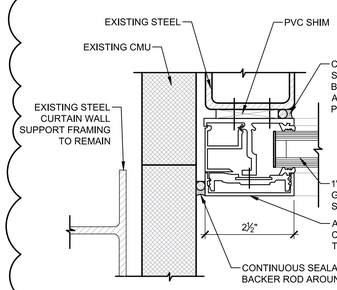
Storefront Plan Detail (Typ.) 12
3" = 1'-0"



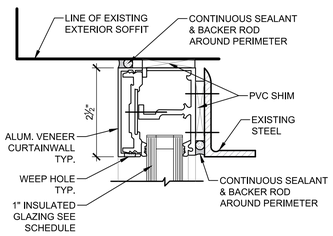
Detail 11
6"=1'-0"



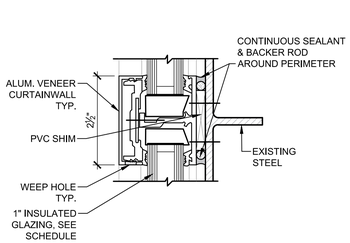
Storefront Section 2B
3" = 1'-0"



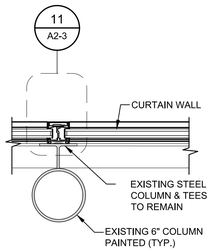
Detail 10
6"=1'-0"



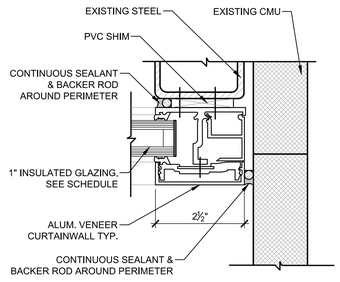
Detail 9
6"=1'-0"



Detail 8
6"=1'-0"

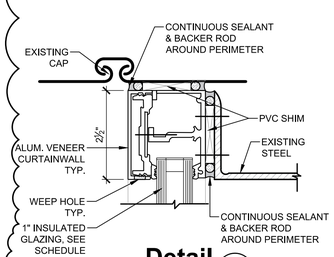


Detail 7
1 1/2"=1'-0"

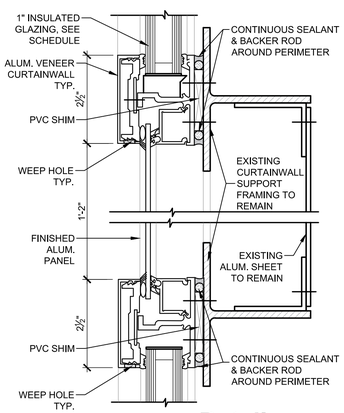


Detail 6
6"=1'-0"

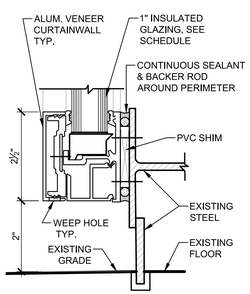
Curtain Wall Detail 2A
3/4"=1'-0"



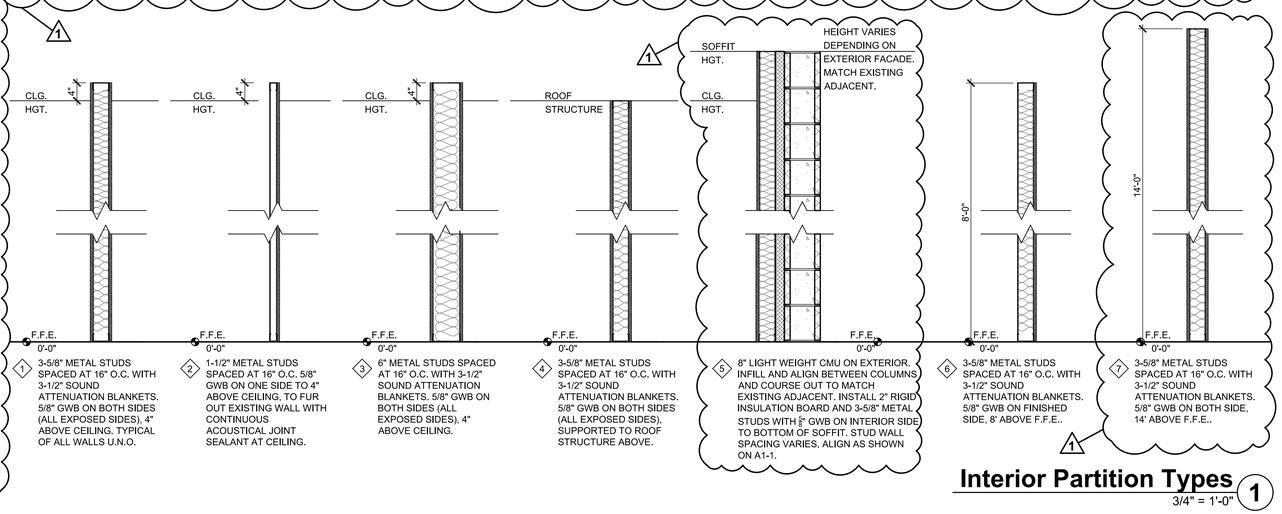
Detail 5
6"=1'-0"



Detail 4
6"=1'-0"



Detail 3
6"=1'-0"



Interior Partition Types 1
3/4" = 1'-0"

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JOHN MILIACCA REGISTERED ARCHITECT 06-01-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark Terminal Building: Phase 3

2860 Jetport Road
Kinston, North Carolina

REVISIONS:

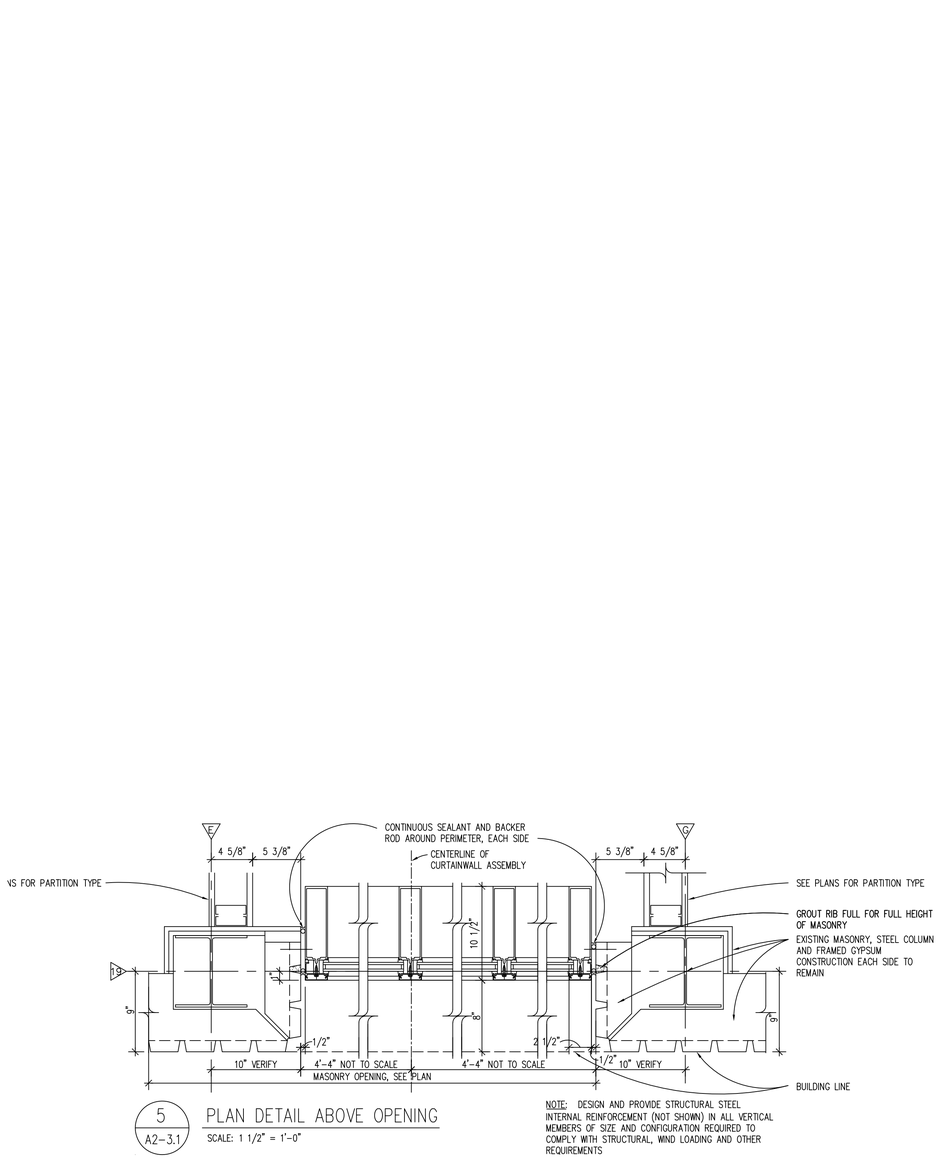
#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

SHEET NAME:
Wall Sections & Details

PHASE:
Construction Documents

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

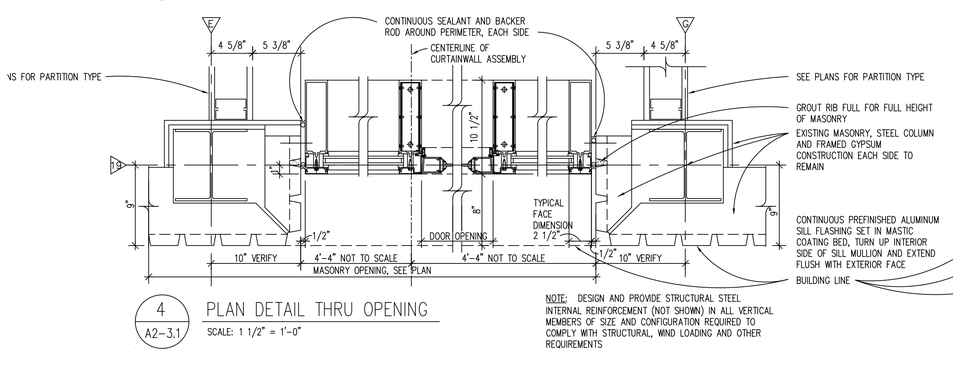
SHEET NUMBER
A2-3



NOTE: DESIGN AND PROVIDE STRUCTURAL STEEL INTERNAL REINFORCEMENT (NOT SHOWN) IN ALL VERTICAL MEMBERS OF SIZE AND CONFIGURATION REQUIRED TO COMPLY WITH STRUCTURAL, WIND LOADING AND OTHER REQUIREMENTS

5 A2-3.1 PLAN DETAIL ABOVE OPENING

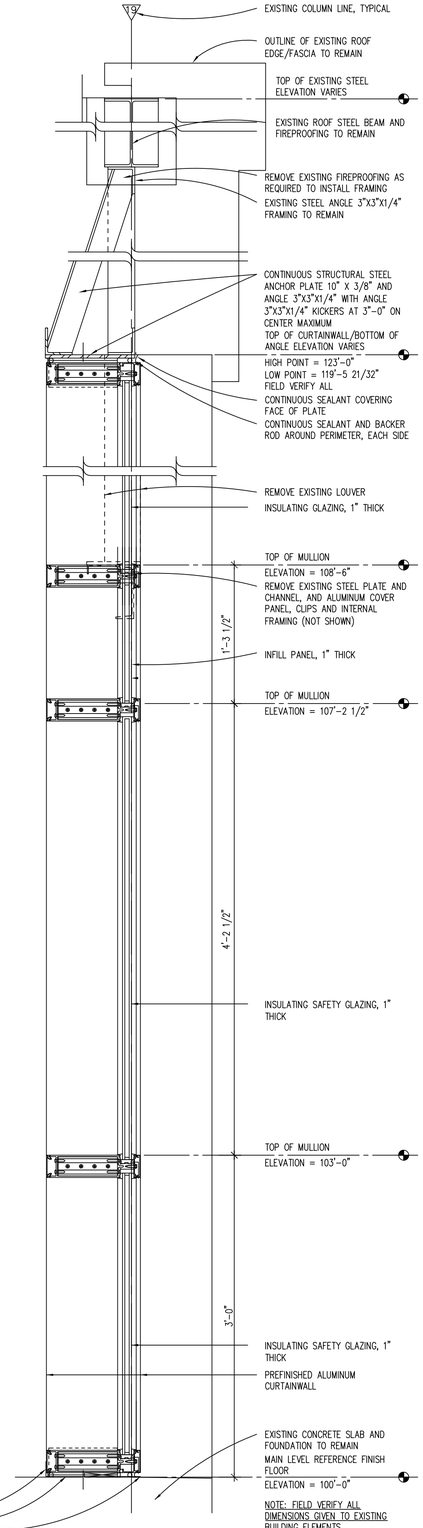
SCALE: 1 1/2" = 1'-0"



NOTE: DESIGN AND PROVIDE STRUCTURAL STEEL INTERNAL REINFORCEMENT (NOT SHOWN) IN ALL VERTICAL MEMBERS OF SIZE AND CONFIGURATION REQUIRED TO COMPLY WITH STRUCTURAL, WIND LOADING AND OTHER REQUIREMENTS

4 A2-3.1 PLAN DETAIL THRU OPENING

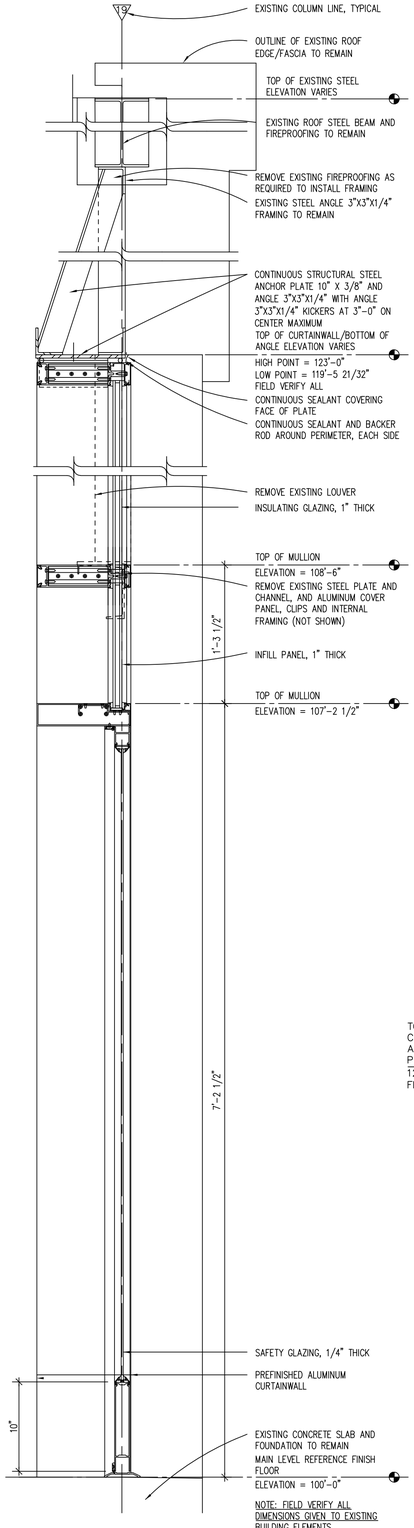
SCALE: 1 1/2" = 1'-0"



NOTE: FIELD VERIFY ALL DIMENSIONS GIVEN TO EXISTING BUILDING ELEMENTS

3 A2-3.1 PARTIAL WALL SECTION ABOVE OPENING

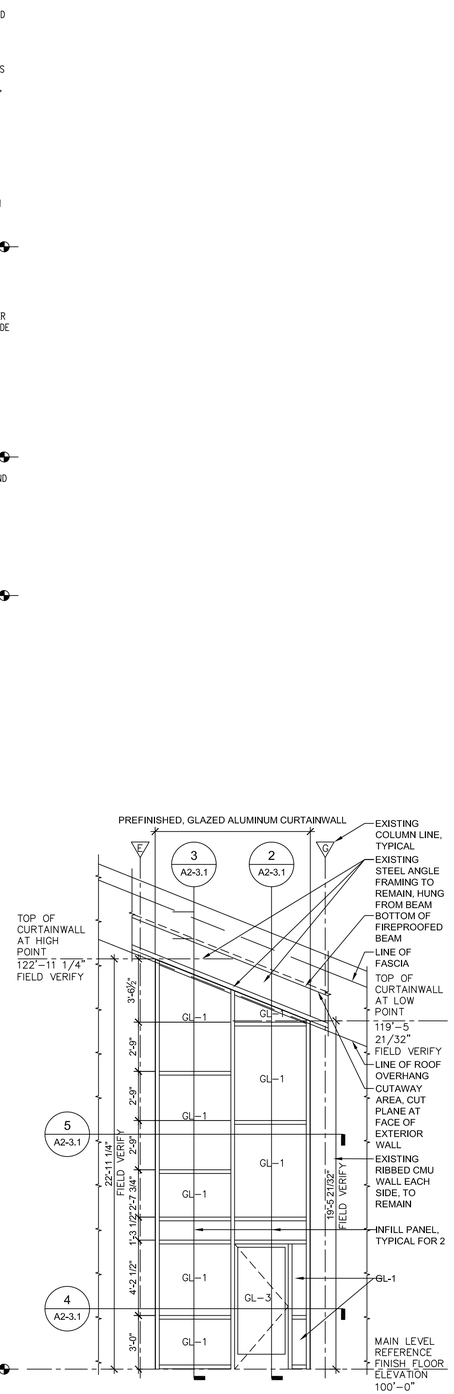
SCALE: 1 1/2" = 1'-0"



NOTE: FIELD VERIFY ALL DIMENSIONS GIVEN TO EXISTING BUILDING ELEMENTS

2 A2-3.1 PARTIAL WALL SECTION THRU OPENING

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



Enlarged Partial North Elevation

1/4" = 1'-0" 1

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NC Global Transpark Terminal Building: Phase 3

2860 Jetport Road
Kinston, North Carolina

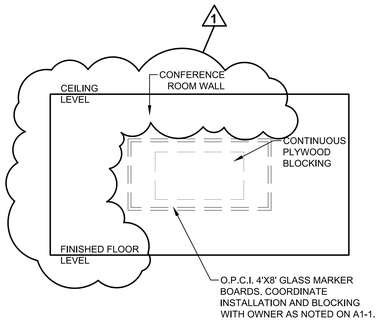
REVISIONS:

#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

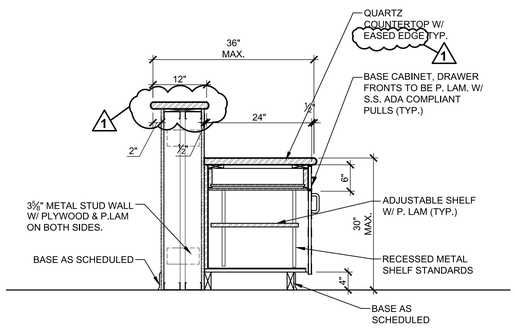
SHEET NAME:
ALTERNATE NO. 2 Curtainwall Elevations, Sections and Details
PHASE:
Construction Documents

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

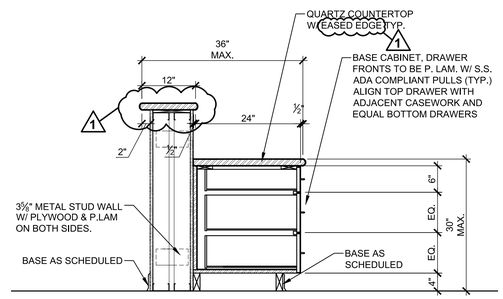
SHEET NUMBER
1 **A2-3.1**



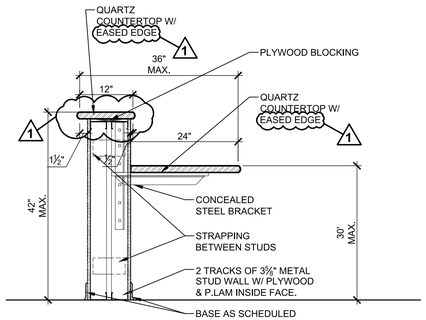
Typical Marker Board Detail 14
1/4"=1'-0"



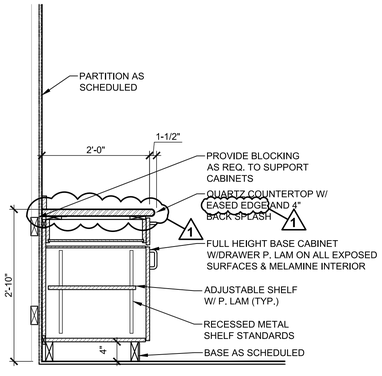
Casework Section 13
3/4"=1'-0"



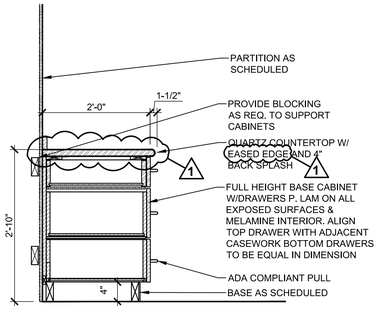
Casework Section 12
3/4"=1'-0"



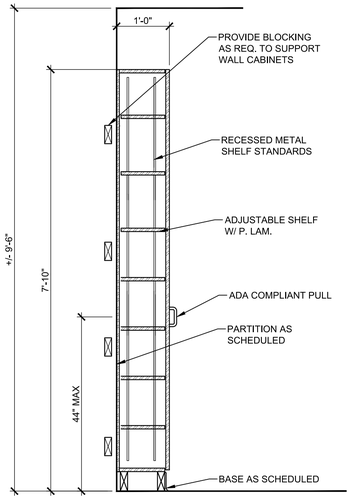
Casework Section 11
3/4"=1'-0"



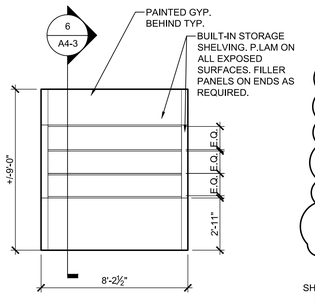
Casework Section 10
3/4"=1'-0"



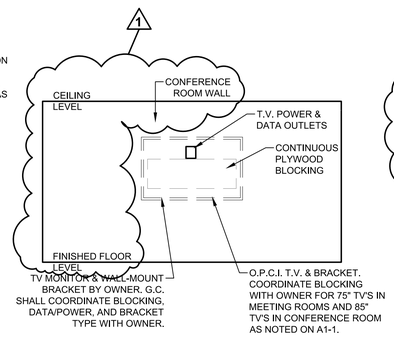
Casework Section 9
3/4"=1'-0"



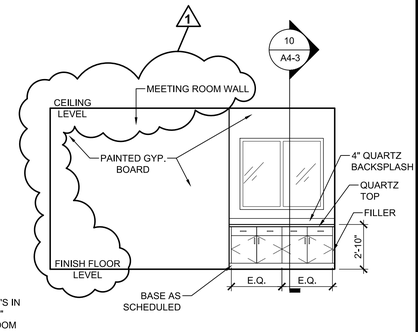
Casework Section 8
3/4"=1'-0"



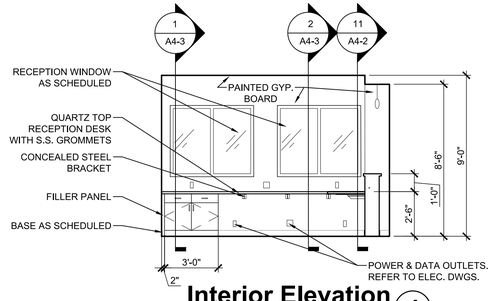
Interior Elevation 7
1/4"=1'-0"



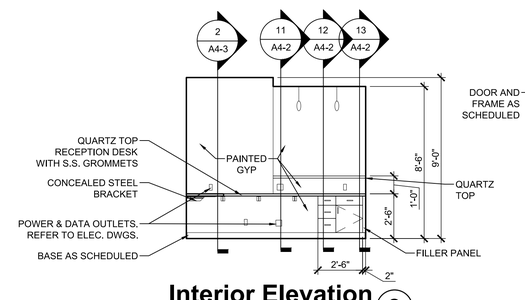
Typical T.V. Mounting Detail 6
1/4"=1'-0"



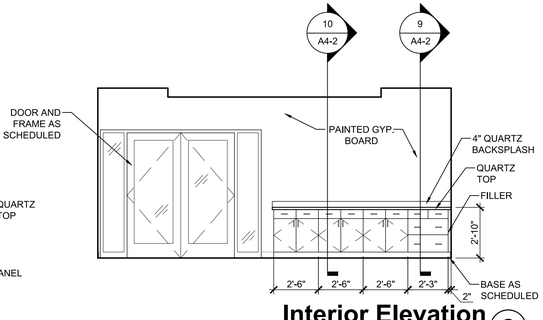
Interior Elevation 5
1/4"=1'-0"



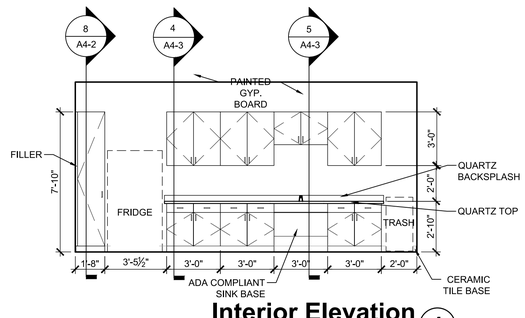
Interior Elevation 4
1/4"=1'-0"



Interior Elevation 3
1/4"=1'-0"



Interior Elevation 2
1/4"=1'-0"



Interior Elevation 1
1/4"=1'-0"

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JOHN MILIACCA REGISTERED ARCHITECT 06-0ct-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark Terminal Building: Phase 3

2860 Jetport Road
Kinston, North Carolina

REVISIONS:

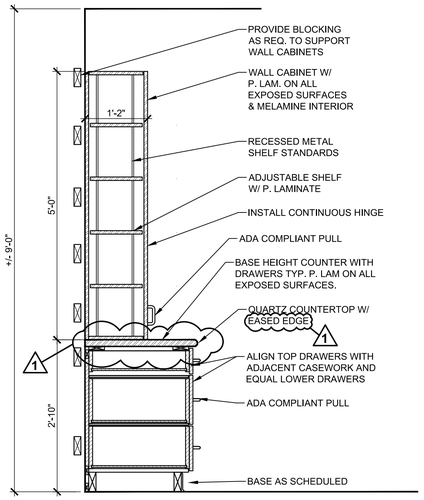
#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

SHEET NAME:
Interior Elevations & Casework Sections

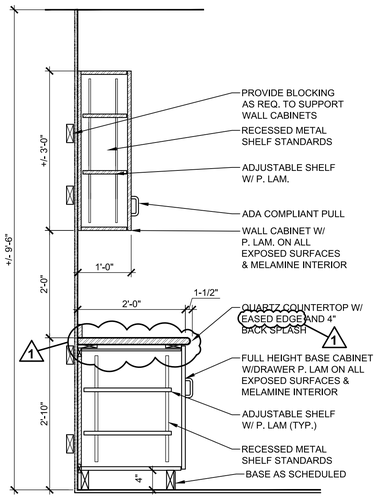
PHASE:
Construction Documents

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

SHEET NUMBER
A4-2

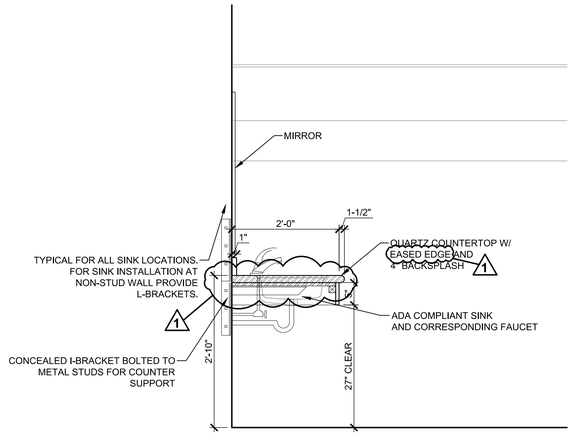


Casework Section 8
3/4"=1'-0"

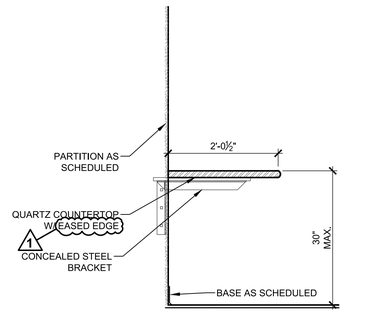


Casework Section 7
3/4"=1'-0"

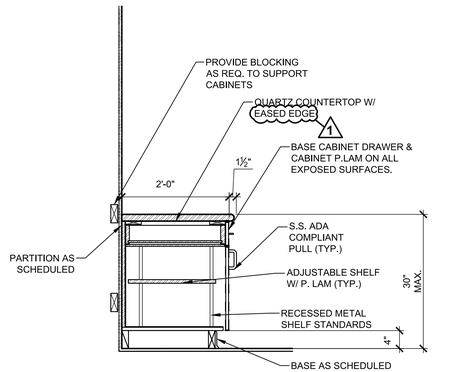
Casework Section 4
3/4"=1'-0"



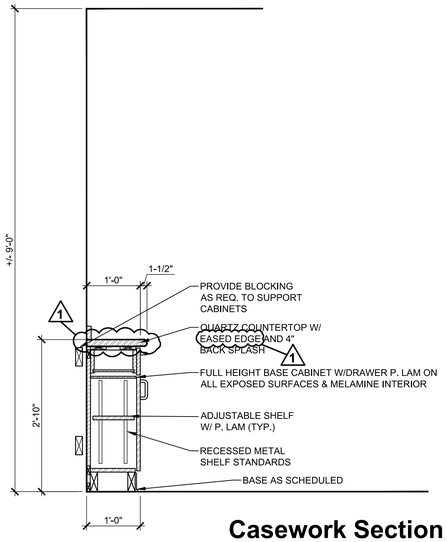
Casework Section 3
3/4"=1'-0"



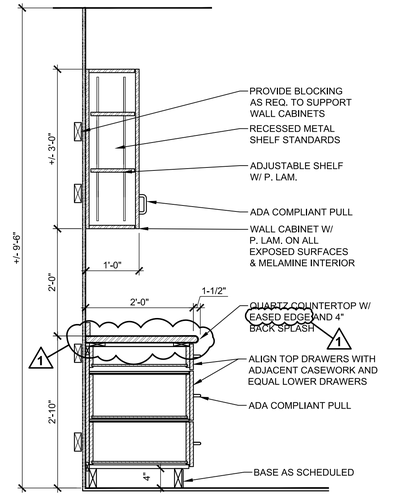
Casework Section 2
3/4"=1'-0"



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



Casework Section 10
3/4"=1'-0"



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

Casework Section 6
3/4"=1'-0"

Casework Section 5
3/4"=1'-0"

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JOHN MILIACCA, REGISTERED ARCHITECT, 06-04-24, 14263, NORTH CAROLINA, RALEIGH, NC

NC Global Transpark
Terminal Building: Phase 3
2860 Jetport Road
Kinston, North Carolina

REVISIONS:

#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

SHEET NAME:
Casework Sections

PHASE:
Construction Documents

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

SHEET NUMBER
A4-3

STOREFRONT / CURTAINWALL/ WINDOW SCHEDULE

WINDOW TAG	DESCRIPTION	ELEV.	MATERIAL	FINISH	DETAILS J	DETAILS H	DETAILS S	GLASS	REMARKS
W1	12'-10-1/2" X 10'-6-1/2" ALUMINUM STOREFRONT	F7	AL	ANOD.	12/A2-3 14/A2-3	15/A2-3	2C/A2-3	G1	
W2	4' X 4'-8" RECEPTION WINDOW	F8	AL	ANOD.	8/A8-1	8/A8-1	9/A8-1	G2	
W3	4' X 6' ALUMINUM STOREFRONT	F9	AL	ANOD.	16/A2-3	16/A2-3	17/A2-3	G1	
W4	SEE ELEVATION ALUMINUM STOREFRONT	2/A2-2	AL	ANOD.	12/A2-3	2B/A2-3	2C/A2-3	G1	DOOR 158B IN STOREFRONT
W5	SEE ELEVATION ALUMINUM CURTAIN WALL	3/A2-2	AL	ANOD.	6/A2-3	5/A2-3 9/A2-3	3/A2-3	G1	
W6	4' X 4'-2" OFFICE WINDOW	F10	AL	ANOD.	8/A8-1	8/A8-1	9/A8-1	G2	

DOOR & FRAME SCHEDULE

NOTE: SEE SHEET T1-1 FOR PROJECT LEGEND & ABBREVIATIONS

DOOR GROUP NO.	OPENING SIZE (W X H)	DOOR TYPE	DOOR THICKNESS (1-3/4" U.N.O.)	DOOR MATERIAL	DOOR FINISH	FRAME ELEVATION	FRAME MATERIAL	FRAME FINISH	DETAILS J	DETAILS H	DETAILS S	GLASS	REMARKS (SEE SPECIFICATIONS)
1	3'-0" X 7'-0"	A	1.75"	SWC	CLR	F2	HM	PT	5/A8-1	5/A8-1	5/A8-1	G2	
2	3'-0" X 7'-0"	C	1.75"	SWC	CLR	F2	HM	PT	5/A8-1	5/A8-1	5/A8-1	G2	
3	3'-0" X 7'-0"	B	1.75"	HM	PT	F1	HM	PT	7/A8-1	7/A8-1	6/A8-1	G1	
4	3'-0" X 7'-0"	B	1.75"	SWC	CLR	F2	HM	PT	5/A8-1	5/A8-1	5/A8-1	G2	
5	3'-0" X 7'-0"	B	1.75"	SWC	CLR	F1	HM	PT	5/A8-1	5/A8-1	5/A8-1	G2	
6	3'-0" X 7'-0"	A	1.75"	SWC	CLR	F1	HM	PT	5/A8-1	5/A8-1	5/A8-1	-	*PROVIDE 2" UNDERCUT AT I.T. & MECHANICAL ROOM.
7	SEE ELEVATION	CC	1.75"	SWC	CLR	F3	HM	PT	5/A8-1	5/A8-1	5/A8-1	G2	
8	SEE ELEVATION	CC	1.75"	SWC	CLR	F4	ALUM	CLR	8/A8-1	8/A8-1	9/A8-1	G2	
9	SEE ELEVATION	CC	1.75"	ALUM	ANOD.	F5	ALUM	CLR	10/A8-1	10/A8-1	9/A8-1	G1	
10	SEE ELEVATION	CC	1.75"	ALUM	ANOD.	F5	ALUM	CLR	10/A8-1	10/A8-1	6/A8-1	G1	*INTENT TO MATCH EXISTING DEMOLISHED STOREFRONT. PROVIDE & INSTALL WEATHER SEALS ON 4 SIDES OF FRAME.
11	SEE ELEVATION	C	1.75"	ALUM	ANOD.	2/A2-2	ALUM	CLR	10/A8-1	10/A8-1	6/A8-1	G1	*INTENT TO MATCH EXISTING DEMOLISHED STOREFRONT. PROVIDE & INSTALL WEATHER SEALS ON 4 SIDES OF FRAME.
12	SEE ELEVATION	C	1.75"	ALUM	ANOD.	F6	ALUM	CLR	10/A8-1	8/A8-1	9/A8-1	G1	*INTENT TO MATCH EXISTING DEMOLISHED STOREFRONT.

*GC RESPONSIBLE FOR FIELD VERIFICATION OF ALL OPENINGS PRIOR TO FABRICATION AND INSTALLATION.

HARDWARE

- OWNER TO APPROVE ALL HARDWARE & KEYING
- SEE SPECIFICATION MANUAL FOR ALL DOOR HARDWARE INFORMATION.

GLAZING TYPES

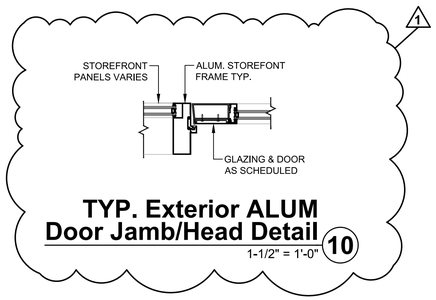
G1 CLEAR TEMPERED 1" GLASS

G2 CLEAR TEMPERED 1/4" GLASS

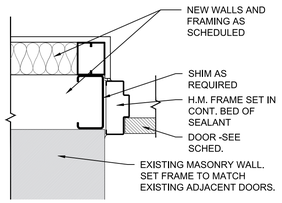
DOOR & HARDWARE NOTES

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

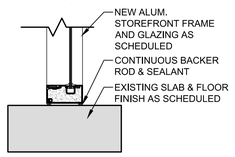
1. ALL LOCKS SHALL BE MANUFACTURED BY ILCO LOCKS -SL RESTRICTED KEYWAY LOCKS INSTALLED BY MEDCO KEYING PER BOSCH STANDARDS. EXTERIOR DOORS, FIRST FLOOR STAIRS DOORS, AND DOUBLE DOORS LEADING INTO UNOCCUPIED SPACE TO HAVE KEY CARD ACCESS INSTALLED AT RIGHT HAND DOOR. KEY CARD ACCESS TO BE INSTALLED BY 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



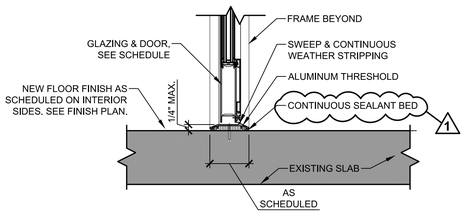
TYP. Exterior ALUM Door Jamb/Head Detail 10
1-1/2" = 1'-0"



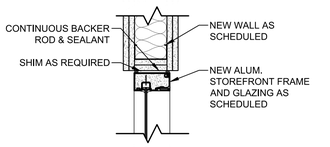
TYP. Exterior HM Door Jamb/Head Detail 7
1-1/2" = 1'-0"



TYP. Interior ALUM Sill Detail 9
1-1/2" = 1'-0"

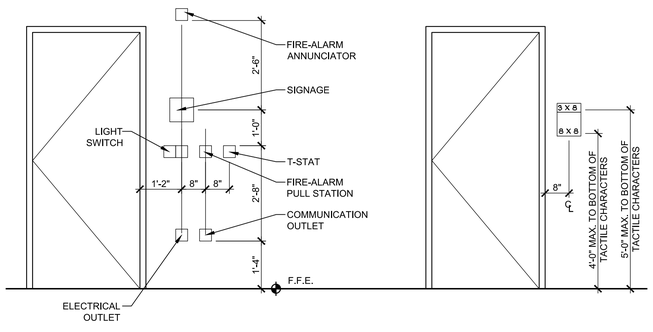


TYP. Exterior Door Threshold/Sill Detail 6
1-1/2" = 1'-0"

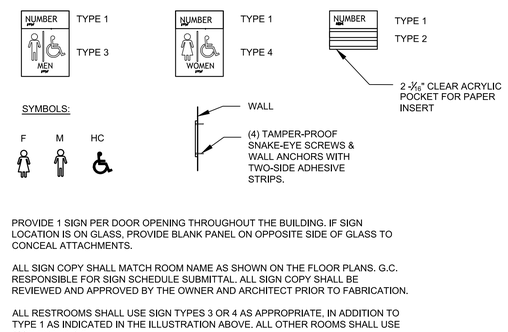


TYP. Interior ALUM Head/Jamb Detail 8
1-1/2" = 1'-0"

TYP. HM Interior Door Head/Jamb/Sill Detail 5
1-1/2" = 1'-0"



Typical Mounting Heights 4
1/2" = 1'-0"

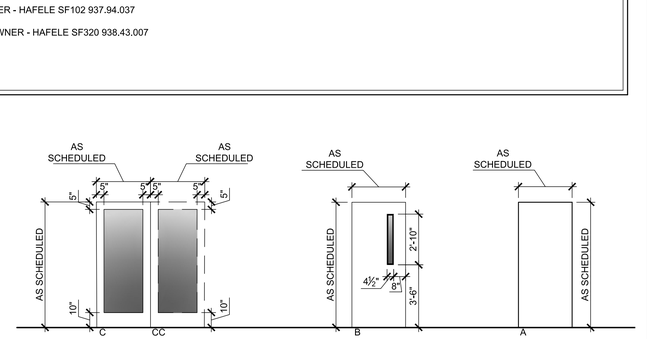


PROVIDE 1 SIGN PER DOOR OPENING THROUGHOUT THE BUILDING. IF SIGN LOCATION IS ON GLASS, PROVIDE BLANK PANEL ON OPPOSITE SIDE OF GLASS TO CONCEAL ATTACHMENTS.

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.

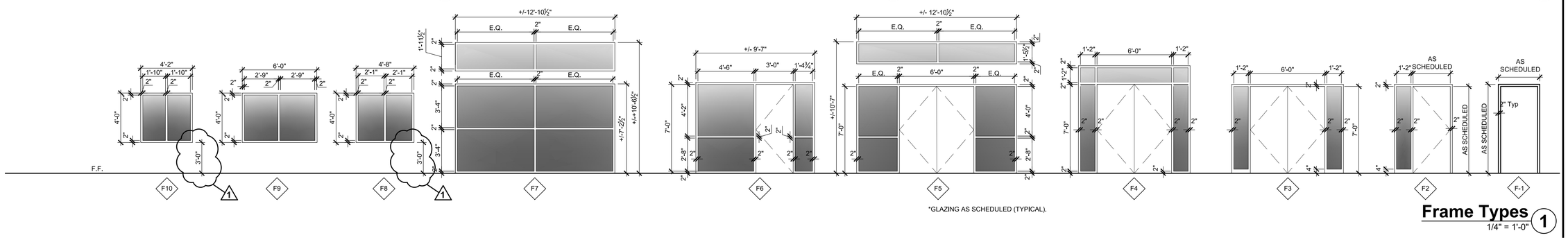
ALL RESTROOMS SHALL USE SIGN TYPES 3 OR 4 AS APPROPRIATE, IN ADDITION TO TYPE 1 AS INDICATED IN THE ILLUSTRATION ABOVE. ALL OTHER ROOMS SHALL USE SIGN TYPE 1 & 2.

Sign Types 3
1" = 1'-0"



*GLAZING AS SCHEDULED (TYPICAL).

Door Types 2
1/4" = 1'-0"



*GLAZING AS SCHEDULED (TYPICAL).

Frame Types 1
1/4" = 1'-0"

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JOHN MILIACCA REGISTERED ARCHITECT 06-04-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark Terminal Building: Phase 3

2860 Jetport Road
Kinston, North Carolina

REVISIONS:

#	DESCRIPTION:	DATE
001	ADDENDUM 004	06-04-2024

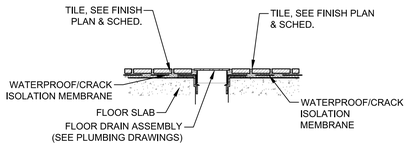
SHEET NAME:
Door & Window Schedule, Frame Types, & Details

PHASE:
Construction Documents

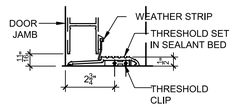
ISSUE DATE: **05/02/2024**
PROJECT #: **18056C**
DRAWN BY: **AMI/JMS/TN**

SHEET NUMBER
A8-1

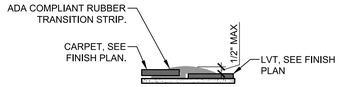
*SLOPE SHOWER FROM MARBLE THRESHOLD TO LINEAR FLOOR DRAIN 2% MAX.



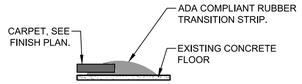
Typ. Floor Drain Detail 9
3"=1'-0"



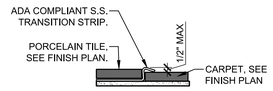
Threshold Detail 8
3"=1'-0"



Transition Strip 4 7
6"=1'-0"

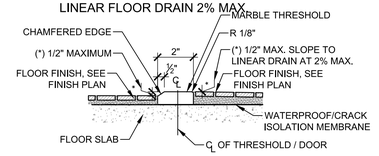


Transition Strip 3 6
6"=1'-0"

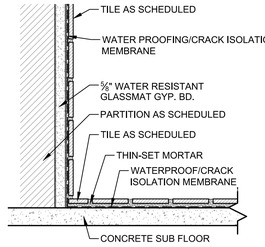


Transition Strip 2 5
6"=1'-0"

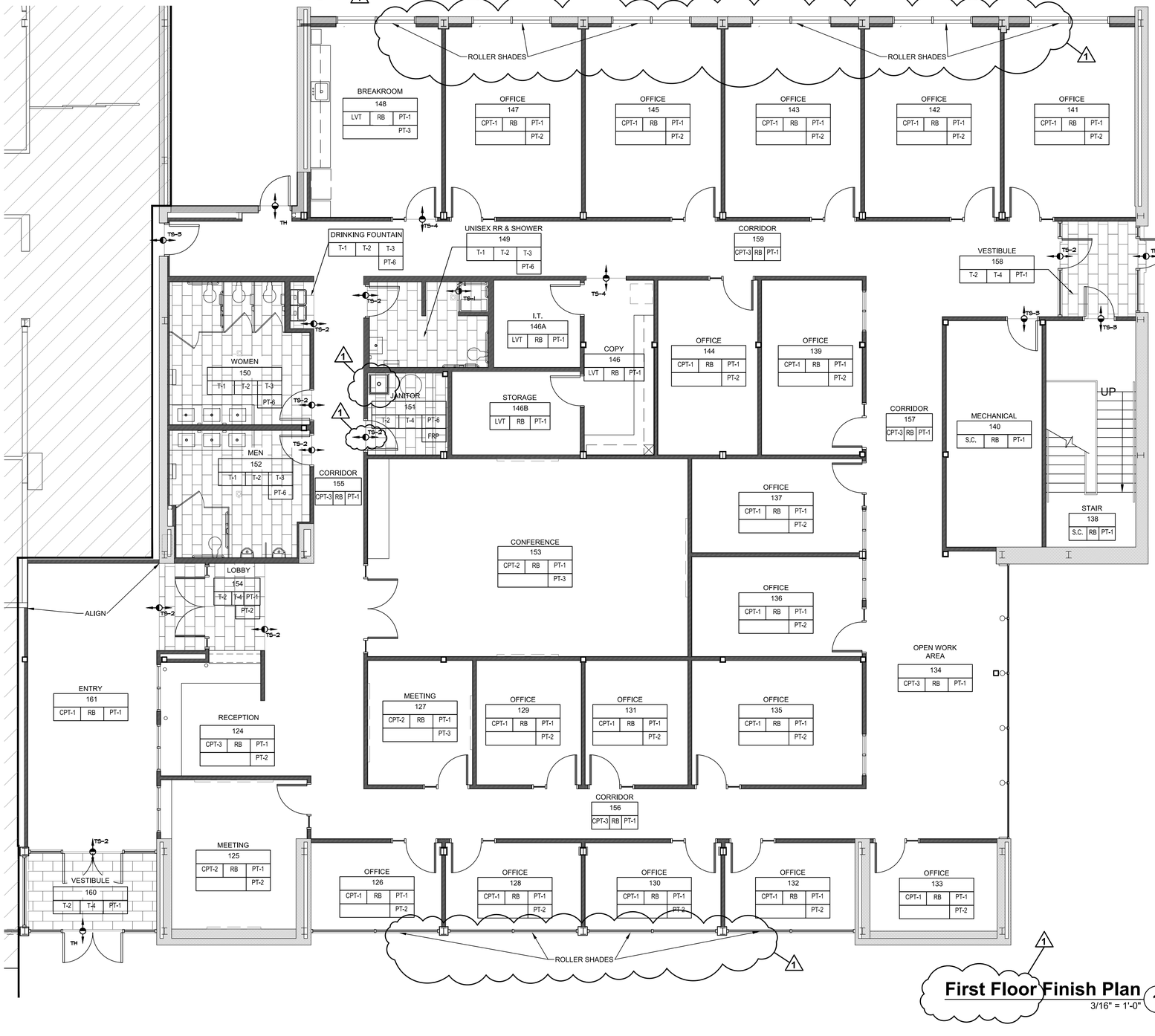
*SLOPE SHOWER FROM MARBLE THRESHOLD TO LINEAR FLOOR DRAIN 2% MAX.



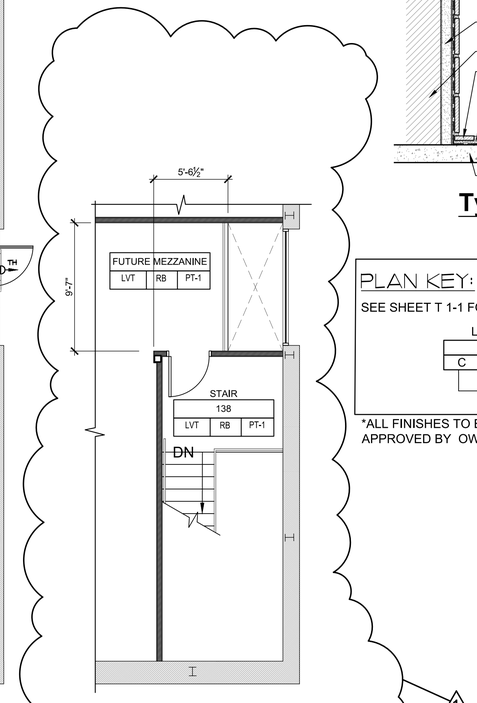
Transition Strip 1 4
6"=1'-0"



Typ. Tile Detail 3
3"=1'-0"



First Floor Finish Plan 1
3/16" = 1'-0"



Mezzanine Finish Plan 2
3/16" = 1'-0"

PLAN KEY:

SEE SHEET T 1-1 FOR SYMBOLS AND ABBREVIATIONS

LOBBY — ROOM NAME
101 — ROOM NUMBER
C | R | PT — WALL FINISH TYPE / WALL BASE TYPE / FLOOR FINISH TYPE

*ALL FINISHES TO BE SUBMITTED AND APPROVED BY OWNER AND ARCHITECT.

FINISH SCHEDULE

TAG	FINISH TYPE	MANUFACTURER	STYLE/COLOR #	LOCATIONS	REMARKS
ACT	CEILING TILE & GRID	ARMSTRONG	PRELUDE XL 9770 & 7300	REFER TO RCP	
CG-1	CORNER GUARD	WALL GUARD	1" X 48" STAINLESS STEEL	ALL GYP. BOARD WALL OUTSIDE CORNERS	TYPICAL
CG-2	WALL EDGING	SCHLUTER	RONDEC STAINLESS STEEL	TILE OUTSIDE CORNERS & TOP EDGE	TYPICAL
CPT-1	CARPET	MOHAWK	EXPEDITION- DIGITAL TERRAIN MINERAL 978	REFER TO FINISH PLAN	
CPT-2	CARPET	MOHAWK	EXPEDITION- SEISMIC WAVE MINERAL 978	REFER TO FINISH PLAN	
CPT-3	CARPET	MOHAWK	EXPEDITION- HYDROSPHERE LAGOON 576	REFER TO FINISH PLAN	
FRP	FIBERGLASS PANEL	MARLITE	4'X8' SHEET. WHITE.	FRONT & SIDE MOP SINK	
GRT	GROUT	TEC	DELOREAN GRAY	REFER TO FINISH PLAN	
LVT	LUXURY VINYL TILE	MOHAWK	HOT + HEAVY, 833 OAKBAK	REFER TO FINISH PLAN	
PL-1	PLASTIC LAMINATE	WILSONART	5TH AVENUE ELM 7966	ALL CASEWORK	
PT-1	PAINT	SHERWIN WILLIAMS	SW 6255 MORNING FOG	REFER TO FINISH PLAN	
PT-2	PAINT	SHERWIN WILLIAMS	SW 6531 INDIGO	ACCENT TBD/COLUMNS	
PT-3	PAINT	SHERWIN WILLIAMS	SW 9019 GOLDEN PLUMERIA	ACCENT TBD	
PT-4	PAINT	SHERWIN WILLIAMS	SW 7757 HIGH REFLECTIVE WHITE	UNDERSIDE OF SOFFIT	
PT-5	PAINT	SHERWIN WILLIAMS	SW 7069 IRON ORE	DOOR FRAMES	
PT-6	EPOXY PAINT	SHERWIN WILLIAMS	SW 9151 DAPHNE	REFER TO FINISH PLAN	EPOXY
PT-7	PAINT	SHERWIN WILLIAMS	SW 6966 BLUEBLOOD	ACCENT TBD	
QTZ	QUARTZ	HANSTONE	AURORA SNOW	COUNTERTOPS	
RB	RUBBER BASE	JOHNSONITE	STANDARD 4" IN BURNT UMBER	REFER TO FINISH PLAN	4" X 1/8"
RS	ROLLER SHADES	NORMAN	TBD	AS SHOWN	
S.C.	SEALED CONCRETE	EUCLID CHEMICAL	CLEAR	REFER TO FINISH PLAN	
T-1	PORCELAIN TILE	DALTILE	CASPER GREY IC12 WALL TILE	REFER TO FINISH PLAN	
T-2	PORCELAIN TILE	DALTILE	12 X 24 FORMAT CHARCOAL GREY IC13 FLOOR TILE	REFER TO FINISH PLAN	
T-3	PORCELAIN TILE	DALTILE	12 X 24 FORMAT GREY BLACK BLEND ACCENT IC17	REFER TO FINISH PLAN	
T-4	PORCELAIN TILE	DALTILE	CHARCOAL GREY COVE BASE	REFER TO FINISH PLAN	
TH	ALUM. THRESHOLD	N/A	N/A	REFER TO FINISH PLAN	1/2" MAX.
TS-1	MARBLE THRESHOLD	DALTILE	CARRARA WHITE M701	REFER TO FINISH PLAN	1/2" MAX.
TS-2	TRANSITION STRIP	SCHLUTER	RENO	REFER TO FINISH PLAN	1/2" MAX.
TS-3	TRANSITION STRIP	JOHNSONITE	BURNT UMBER 63	REFER TO FINISH PLAN	1/2" MAX.
TS-4	TRANSITION STRIP	JOHNSONITE	BURNT UMBER 63	REFER TO FINISH PLAN	1/2" MAX.
TS-5	TRANSITION STRIP	SCHLUTER	DILEX-HKS STAINLESS STEEL	AT FLOOR/WALL TILE IN RR & SHOWERS	TYPICAL

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JOHN MILIACCA REGISTERED ARCHITECT 06-04-24 14263 NORTH CAROLINA RALEIGH, NC

NC Global Transpark Terminal Building: Phase 3

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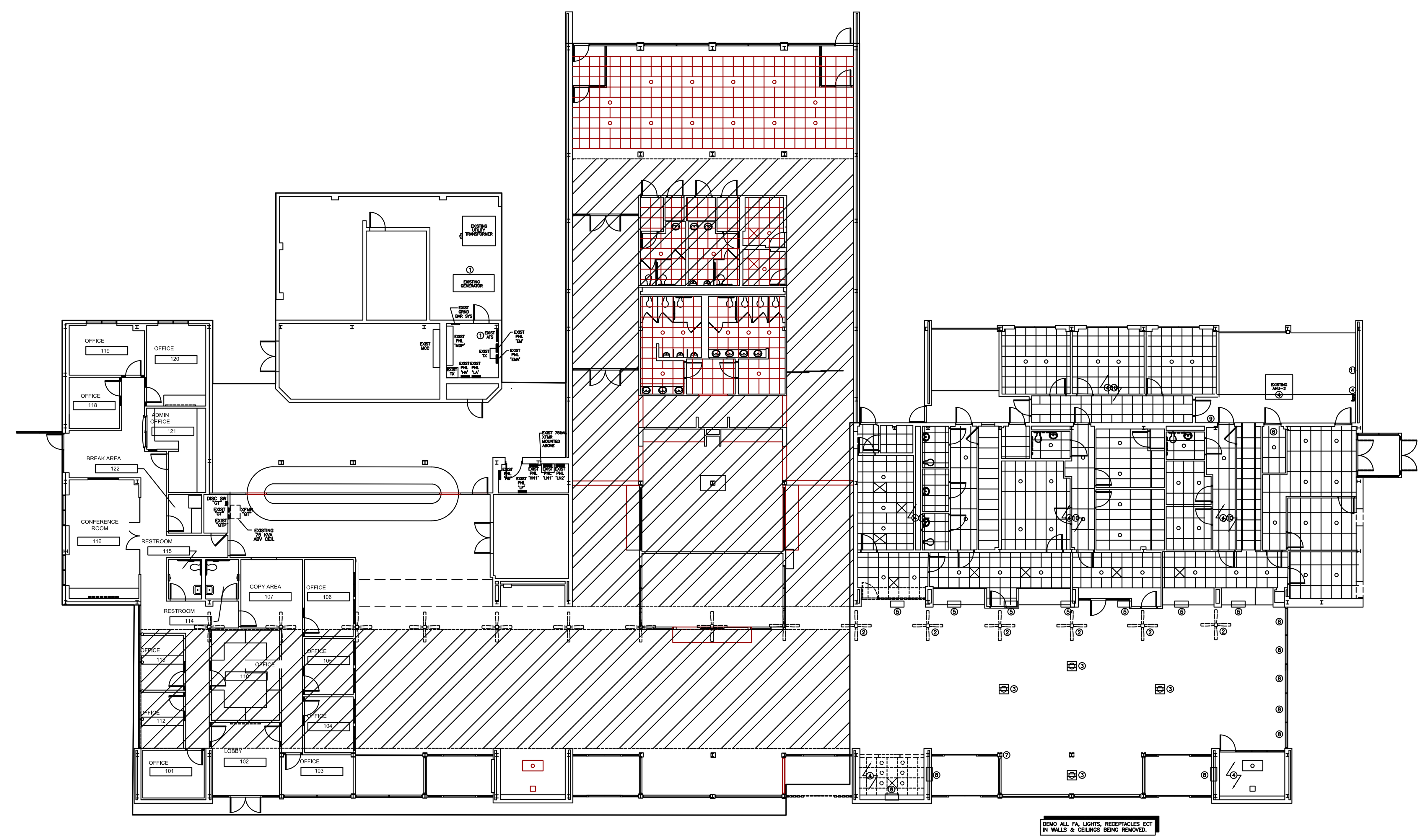
SHEET NAME:
Finish Plan, Schedule, & Details

PHASE:
Construction Documents

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

SHEET NUMBER
A9-1



DEMO PLAN NOTES:

1. DEMO EXISTING GENERATOR AND ASSOCIATED ATS PANEL IN ELECTRICAL ROOM. RECONNECT PANEL "EM" TO EXISTING C/B IN MDP THAT FED THE ATS BEING REMOVED.
2. EXISTING CEILING FANS REMAIN. REMOVE ANY CONTROL WIRING IN AREAS BEING DEMOLISHED.
3. DEMO EXISTING FLOOR BOXES. GC RESPONSIBLE FOR AND PATCH AND FINISH OF FLOOR.
4. DEMO EXISTING AHU AND ALL ASSOCIATED DUCT WORK, CONTROLS, VFD AND DISCONNECT SWITCH. REMOVE HYDRONIC PIPE BACK TO JUST OUTSIDE OF RENOVATION AREA AND CAP.
5. DEMO EXISTING SIDE WALL HVAC DIFFUSERS, ASSOCIATED DUCT AND WALL MOUNTED LIGHTING.
6. DEMO ALL PHONE & DATA IN EXISTING IT CLOSET.
7. DEMO EXISTING HVAC THERMOSTAT/CONTROLS.
8. DEMO EXISTING WALL MOUNTED UNIT HEATER/RADIATOR AND ASSOCIATED PIPING TO CONCEALMENT BELOW FLOOR AND CAP.
9. DEMO EXISTING CONVEYOR POWER SWITCH.
10. DEMO ANY VAV BOXES AND ASSOCIATED DUCT, CONTROLS, & PIPING ABOVE RENOVATION AREA.
11. REMOVE WALL FAN AND ALL ASSOCIATED POWER AND CONTROL WIRING BACK TO PANEL. MARK C/B AS "SPARE"

DEMO PLAN

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

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NC Global Transpark
Terminal Building: Phase 3
2860 Jetport Road
Kinston, North Carolina

REVISIONS:

#	DESCRIPTION:	DATE
1	ADDEN #04	6/04/24

DEMO PLAN

SHEET NAME:

PHASE:
Construction Documents

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

SHEET NUMBER
PME1.0

ES Project No: ES22059
ENGINEERING SOURCE of NC, P.A.
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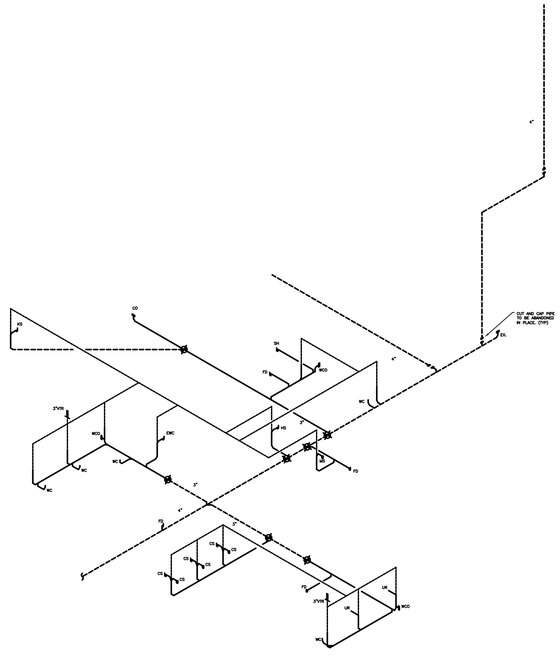
NORTH CAROLINA PROFESSIONAL SEAL 021993 ENGINEER D. WILSON POU 6/4/24

PLUMBING FIXTURE SCHEDULE

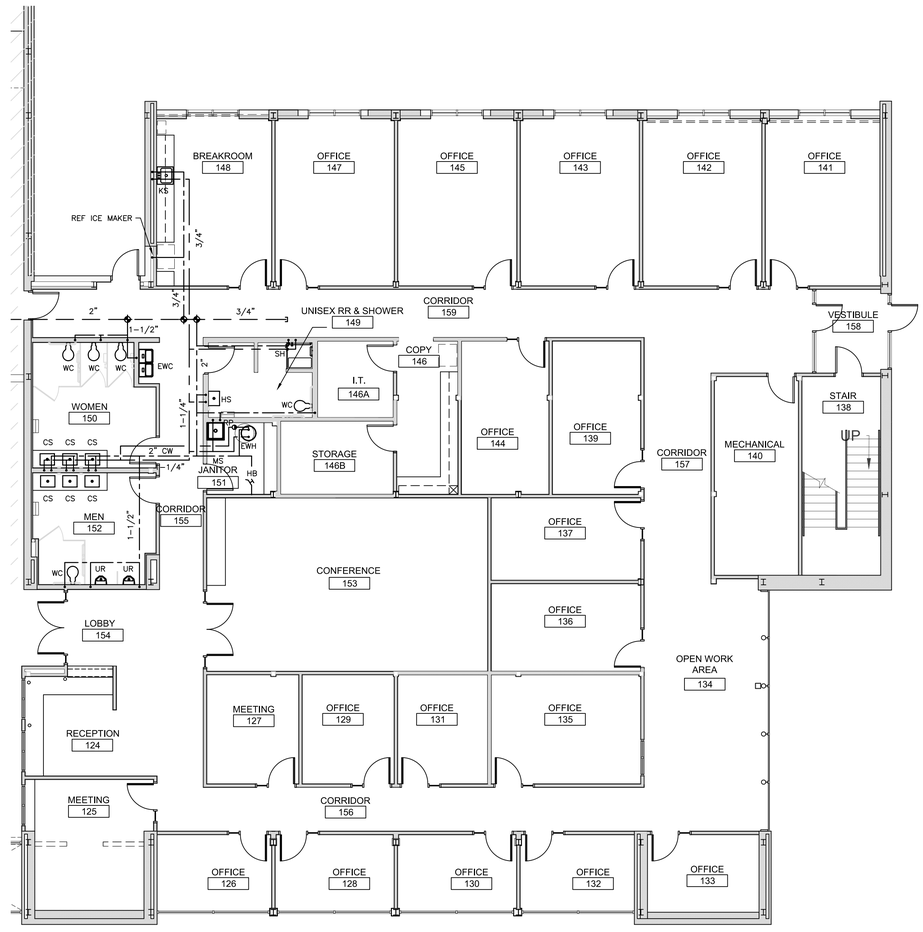
ITEM	DESCRIPTION	FINISH	COLD	HOT	VENT	WASTE	ADA
WC–H	WATER CLOSET – KOHLER HIGHCREST 16–1/8" UNIVERSAL HEIGHT EL 1.6 ELONGATED FLUSH VALVE WC	WHITE			2"	3"	YES
	SEAT – KOHLER K–4666–SA ANTI–MICROBIAL OPEN FRONT SEAT W/ SELF SUSTAINING CHECK HINGE	WHITE					YES
	FLUSH VALVE – ZURN Z6000AV–WS1 OR EQUAL	CHROME	1"				
HS	HAND SINK – WHITE VITREOUS CHINA WALL HUNG	WHITE			1–1/2"	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–0	WHITE			1–1/2"	2"	YES
	FLUSH VALVE – ZURN Z6003AV–WS1	CHROME	3/4"				YES
SH	TILED SHOWER AREA WITH ADA COMPLIANT IINTEGRAL STAINLESS STEEL GRAB AND	BY ARCH.			2"	2"	YES
	STAINLESS STEEL/PHENOLIC FOLDING SEAT BY G.C. HAND SHOWER–SYMMONS 96–500–B30–L–V PRESSURE		1/2"	1/2"			YES
	BALANCING WITH ADJUSTABLE AND STATIONARY SHOWER HEAD BY P.C. (OR EQUAL QUALITY PRODUCT).						
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)						
MS	MOP SINK – EL MUSTEE 24"X24" MOP SINK M# 63M				2"	3"	
	FAUCET – EL MUSTEE MOP SINK FAUCET M# 63.600A		3/4"	3/4"			
	(OR EQUAL PRODUCT FROM MANUFACTURERS IN SPECIFICATION.)						
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).						
HB	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)					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

NOTES:
1) STATE INDUSTRIES, LOCHINVAR, OR RHEEM/RUUD MEETING OR EXCEEDING SPECIFICATIONS ARE ACCEPTABLE SUBSTITUTES
2) PROVIDE BRONZE BODY RECIRCULATION PUMP RATED FOR 8 GPM @ 10' HEAD, 1/12 hp, 115V, B&G No. LR–15B OR EQUAL BY TACO OR ARMSTRONG.
3) PROVIDE EWH WITH NON–SIMULTANEOUS DUAL ELEMENTS SIZED AS SPECIFIED
4) SEE DETAIL FOR ACCESSORIES
5) WATER HEATER SHALL COMPLY WITH SECTION 504 OF THE NORTH CAROLINA ENERGY CODE.

ABBREVIATIONS:
CAP = STORAGE CAPACITY (gal)
ELEMENT = (qty) WATTAGE
TEMP = HW OUTPUT TEMPERATURE (deg F)
RCVY = RECOVERY @ 100 deg F RISE (gph)
POU = POINT OF USE WATER HEATER

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ES Project No: ES22059
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NC Global Transpark
Terminal Building: Phase 3
2860 Jetport Road
Kinston, North Carolina

REVISIONS:

#	DESCRIPTION:	DATE
1	ADDEN #04	6/04/24

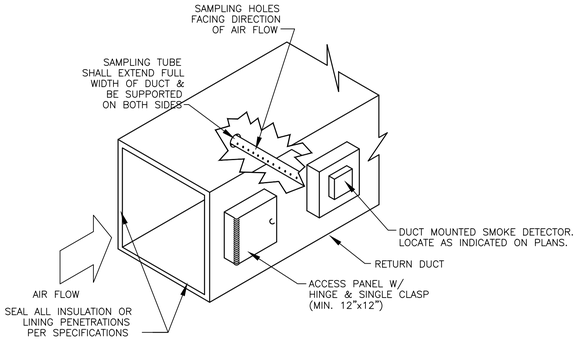
POTABLE WATER PLAN

SHEET NAME:

PHASE:
Construction Documents

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

SHEET NUMBER
P1.2

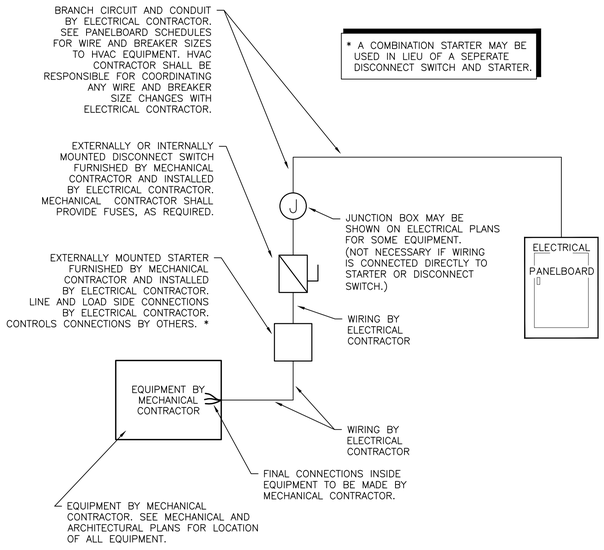


DUCT MOUNTED SMOKE DETECTOR DETAIL

SCALE: N.T.S.

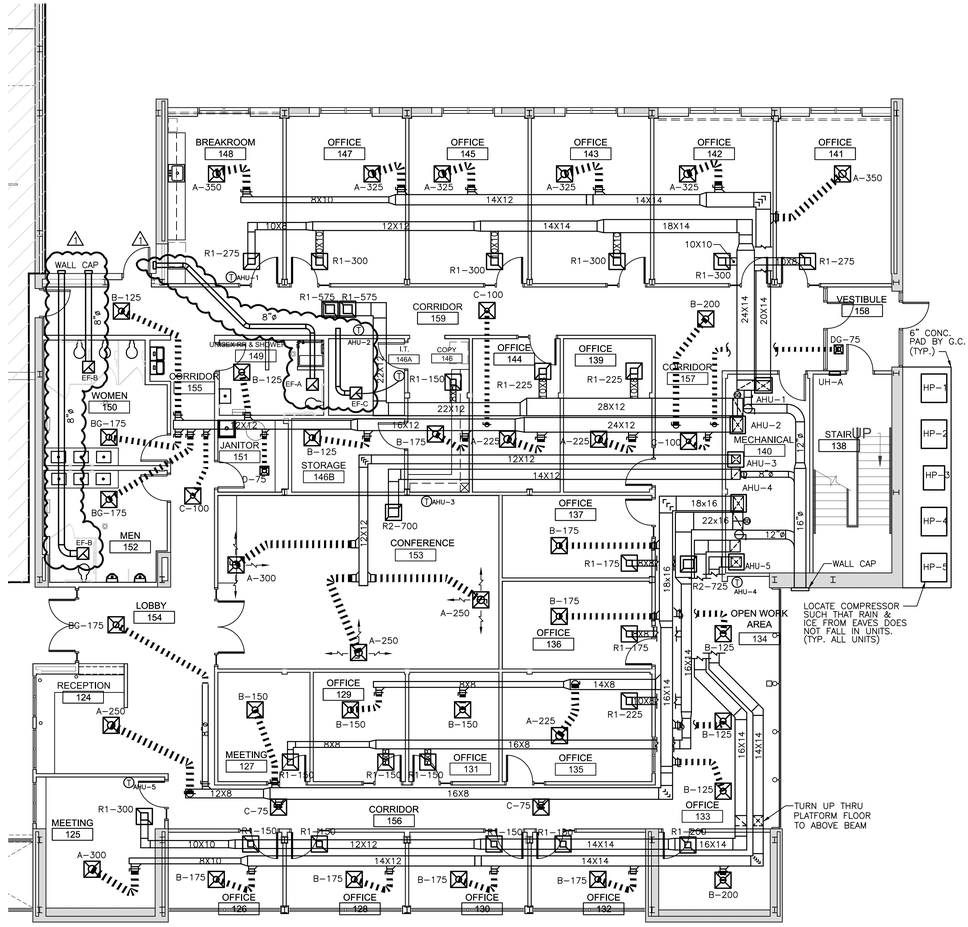
ELECTRIC UNIT HEATER SCHEDULE							
MARK	KW	VOLTAGE/ PHASE	MAKE/MODEL	AMP DRAW	CFM	BTU OUTPUT	NOTES
UH-A	4.0	208/1	MARKEL-F3326TD-RP	19.2	175	13,649	1,2

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



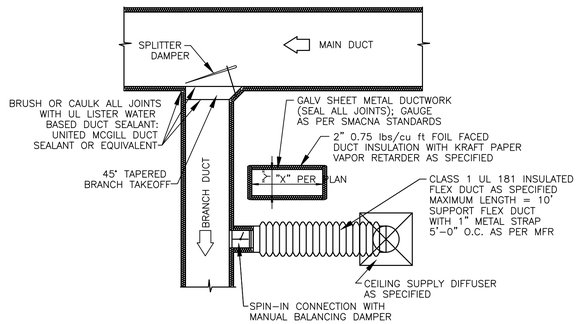
MECHANICAL EQUIPMENT ELECTRICAL CONNECTION DETAIL

SCALE: N.T.S.



MECHANICAL PLAN

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



DUCT CONSTRUCTION DETAIL

SCALE: NTS

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NC Global Transpark Terminal Building: Phase 3

2860 Jetport Road
Kinston, North Carolina

REVISIONS:

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MECHANICAL PLAN

SHEET NAME:

PHASE:
Construction Documents

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

SHEET NUMBER
M1.1

ELECTRICAL NOTES:

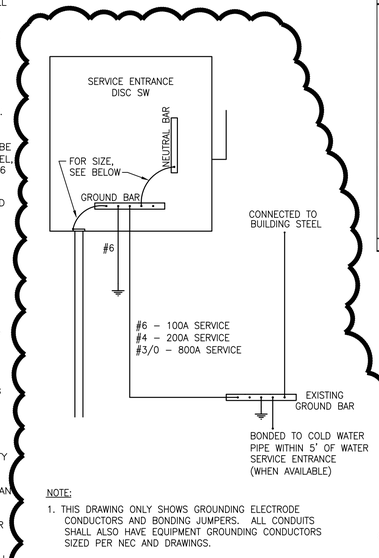
1. DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL PLANS.
2. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO SHOW MINOR DETAILS AND EXACT LOCATIONS. DESIGN ADJUSTMENTS SHALL BE ANTICIPATED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
3. ALL WORK SHALL 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 ACCESSIBILITY.

LP DEMAND CALCS

LIGHTING	0.28	KVA	X	125	%	= **0.4 KVA**
RECEPTAC TOTAL	33.40	KVA				
1ST	10.00	KVA	X	100	%	= **10.0 KVA**
REMAIN	23.40	KVA	X	50	%	= **11.7 KVA**
MOTORS	0.00	KVA	X	100	%	= **0.0 KVA**
A/C	0.00	KVA	X	100	%	= **0.0 KVA**
HEATING	0.00	KVA	X	100	%	= **0.0 KVA**
FUTURE		KVA	X	100	%	= **0.0 KVA**
KITCHEN	0.00	KVA	X	65	%	= **0.0 KVA**
MISCELLANEOUS	6.45	KVA	X	100	%	= **6.5 KVA**
TOTAL =	**79.1 amps**					= **26.5 KVA**

M DEMAND CALCS

LIGHTING	6.41	KVA	X	125	%	= **8.0 KVA**
RECEPTAC TOTAL	37.40	KVA				
1ST	10.00	KVA	X	100	%	= **10.0 KVA**
REMAIN	27.40	KVA	X	50	%	= **13.7 KVA**
MOTORS	0.00	KVA	X	100	%	= **0.0 KVA**
A/C	95.74	KVA	X	100	%	= **95.7 KVA**
HEATING	0.00	KVA	X	100	%	= **0.0 KVA**
FUTURE		KVA	X	100	%	= **0.0 KVA**
KITCHEN	0.00	KVA	X	65	%	= **0.0 KVA**
MISCELLANEOUS	13.25	KVA	X	100	%	= **13.3 KVA**
TOTAL =	**390.5 amps**					= **140.7 KVA**



NOTE:
1. THIS DRAWING ONLY SHOWS GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS. ALL CONDUITS SHALL ALSO HAVE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NEC AND DRAWINGS.

SERVICE ENTRANCE GROUNDING DETAIL

SCALE: NTS

ELECTRICAL RISER NOTES:

1. 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.)
4. 2 SETS: 4–#3/0 & 1–#2G IN 2.5""C
5. 4–#3/0 & 1–#4G IN 2.5"C
6. REMOVE EXISTING ATS AND ASSOCIATED FEEDERS & CONDUIT. PROVIDE NEW FEEDER FROM MDP TO PANEL "EM".
7. REMOVE EXISTING FEEDERS AND CONDUIT.
8. 4–#8 & 1–#8G IN 1"C
9. 3 SETS OF 4–#300 & 1–#1/0G IN 3"C
10. DISCONNECT THE NEUT & GRND IN EXISTING MDP. GROUND NEW SE DISC SW BACK TO EXIST GRND BAR SYSTEM.
11. EXIST. SYSTEM GROUND ELECTRODE SYS.

PANELBOARD SCHEDULE - "LP"

MAIN: 125 MLO | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | BUS BARS: COPPER

CKT #	BKR RIP	PO	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A/B/C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	OL	BKR TRIP	CKT #
1	20	1	12	3/4"	MICROWAVE							1.2									SPARE	3/4"	12	1	20	2
3	20	1	12	3/4"	COFFEE MACHINE							1.0								1.5	COPY MACHINE	3/4"	12	1	20	4
5	20	1	12	3/4"	REFRIGERATOR							1.4								0.2	RECIRC PUMP	3/4"	12	1	20	6
7	20	1	12	3/4"	EWC (GFI BREAKER)							0.8			1.2						RECEPT - CONF. 153	3/4"	12	1	20	8
9	20	1	12	3/4"	RECEPT - SHOWER 149		0.2								0.4						RECEPT - CONF. 153	3/4"	12	1	20	10
11	20	1	12	3/4"	RECEPT - RESTROOMS		0.4								0.4						RECEPT - CONF. 153	3/4"	12	1	20	12
13	20	1	12	3/4"	RECEPT - IT 146A		0.4								1.2						RECEPT - OFFICE 135	3/4"	12	1	20	14
15	20	1	12	3/4"	DATA BOARD							0.4			1.0						RECEPT - OFFICE 131	3/4"	12	1	20	16
17	20	1	12	3/4"	RECEPT - MEETING 125		1.0								1.0						RECEPT - OFFICE 129	3/4"	12	1	20	18
19	20	1	12	3/4"	RECEPT - MEETING 125		1.0								0.8						RECEPT - MEETING 127	3/4"	12	1	20	20
21	20	1	12	3/4"	RECEPT - OFFICE 126		1.0								0.4						RECEPT - RECEP. 124	3/4"	12	1	20	22
23	20	1	12	3/4"	RECEPT - OFFICE 128		1.0								1.0						RECEPT - RECEP. 124	3/4"	12	1	20	24
25	20	1	12	3/4"	RECEPT - OFFICE 130		1.0								0.8						RECEPT - WORK 134	3/4"	12	1	20	26
27	20	1	12	3/4"	RECEPT - OFFICE 132		1.0								1.2						RECEPT - CORR. 156	3/4"	12	1	20	28
29	20	1	12	3/4"	RECEPT - OFFICE 133		1.0								0.6						RECEPT - MECH. 140	3/4"	12	1	20	30
31	20	1	12	3/4"	LIGHTING - MECH/STAIR	0.3									0.4						RECEPT - HVAC SERVICE	3/4"	12	1	20	32
33	20	1	12	3/4"	AOR BASE STATION		0.2								0.2						RECEPT - MEETING 127	3/4"	12	1	20	34
35	20	1	12	3/4"	RECEPT - OFFICE 141		1.4								0.8						RECEPT - COPY 146	3/4"	12	1	20	36
37	20	1	12	3/4"	RECEPT - OFFICE 142		1.4								1.2						RECEPT - OFFICE 137	3/4"	12	1	20	38
39	20	1	12	3/4"	RECEPT - OFFICE 143		1.4								1.2						RECEPT - OFFICE 136	3/4"	12	1	20	40
41	20	1	12	3/4"	RECEPT - OFFICE 145		1.4								0.8						RECEPT - CORR. 155	3/4"	12	1	20	42
43	20	1	12	3/4"	RECEPT - OFFICE 147		1.4								1.2						RECEPT - OFFICE 139	3/4"	12	1	20	44
45	20	1	12	3/4"	RECEPT - BREAK 148		0.4								1.2						RECEPT - OFFICE 144	3/4"	12	1	20	46
47	20	1	12	3/4"	SPARE										0.8						RECEPT - CORR. 159	3/4"	12	1	20	48
49	20	1	12	3/4"	SPARE																SPARE	3/4"	12	1	20	50
51	20	1	12	3/4"	SPARE																SPARE	3/4"	12	1	20	52
53	20	1	12	3/4"	SPARE																SPARE	3/4"	12	1	20	54

RECEPTACLES (KVA):	33.4			DEMAND LOAD (KVA):	28.5
MOTORS (KVA):	0.0	PHASE A	14 119.0		
A/C (KVA):	0.0	PHASE B	13 105.8	CONNECTED LOAD (AMPS):	111.4
HEATING (KVA):	0.0	PHASE C	13 109.6	DEMAND LOAD (AMPS):	79.1
KITCHEN (KVA):	0.0		KVA AMPS		
MISCELLANEOUS (KVA):	6.5				

NOTES:

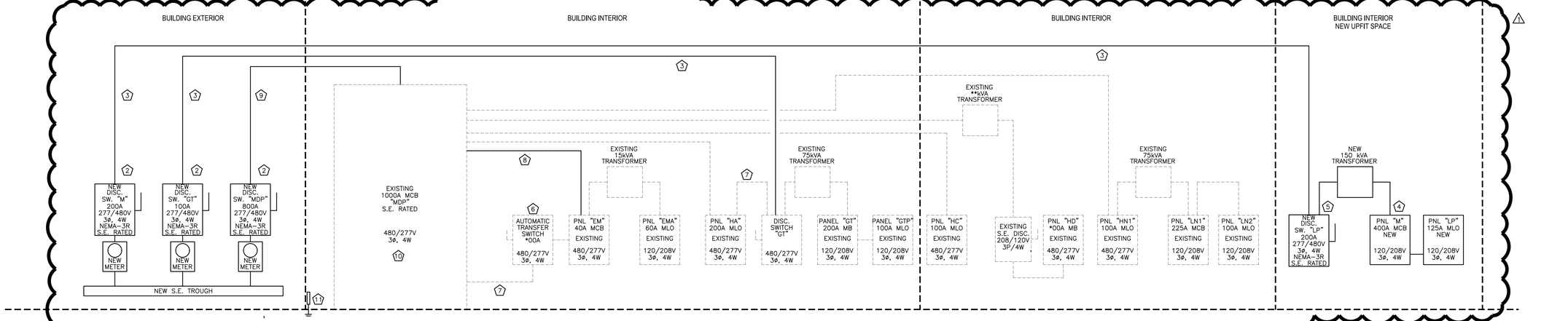
PANELBOARD SCHEDULE - "M"

MAIN: 400 MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: 22,000 | BUS BARS: COPPER

CKT #	BKR RIP	PO	WIRE SIZE	COND SIZE	DESCRIPTION	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A/B/C	LOAD (KVA) LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	OL	BKR TRIP	CKT #
1	20	1	12	3/4"	LIGHTING - INTERIOR	1.7								1.7							LIGHTING - CORRIDOR	3/4"	12	1	20	2
3	20	1	12	3/4"	LIGHTING - INTERIOR	1.7						0.1		1.0						0.1	LIGHTING - LOBBY/RR	3/4"	12	1	20	4
5	20	1			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	20	1	12	3/4"	DOOR ACCESS							0.3					5.5					3/4"	10	3	30	32
33	20	1	12	3/4"	DOOR ACCESS							0.3					5.5				AHU-4					34
35	20	1			SPARE												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

LIGHTING (KVA):	6.4	3.5 0.0 0.0 55.6 0.0 0.0 0.7		CONNECTED LOAD (KVA):	152.8
RECEPTACLES (KVA):	37.4			DEMAND LOAD (KVA):	140.7
MOTORS (KVA):	0.0	PHASE A	54 450.1		
A/C (KVA):	95.7	PHASE B	48 402.9	CONNECTED LOAD (AMPS):	424.1
HEATING (KVA):	0.0	PHASE C	50 420.4	DEMAND LOAD (AMPS):	390.5
KITCHEN (KVA):	0.0		KVA AMPS		
MISCELLANEOUS (KVA):	13.3				

NOTES:



POWER RISER DIAGRAM

SCALE: 1/8"=1'–0"

ENGINEERING SOURCE of NC, P.A.
102–A2 Regency Blvd. Greenville, NC 27834
E–Mail Address: generalmail@engrsource.com
Voice (252) 439–0338 Fax (252) 439–0462 Firm #C–1973
ES Project No: ES22059
NORTH CAROLINA SEAL 021993 ENGINEER 6/4/24 WILSON POU

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NC Global Transpark Terminal Building: Phase 3

2860 Jetport Road
Kinston, North Carolina

REVISIONS:

#	DESCRIPTION:	DATE
1	ADDEN #04	6/04/24

RISER PLAN

SHEET NAME:

PHASE:
Construction Documents

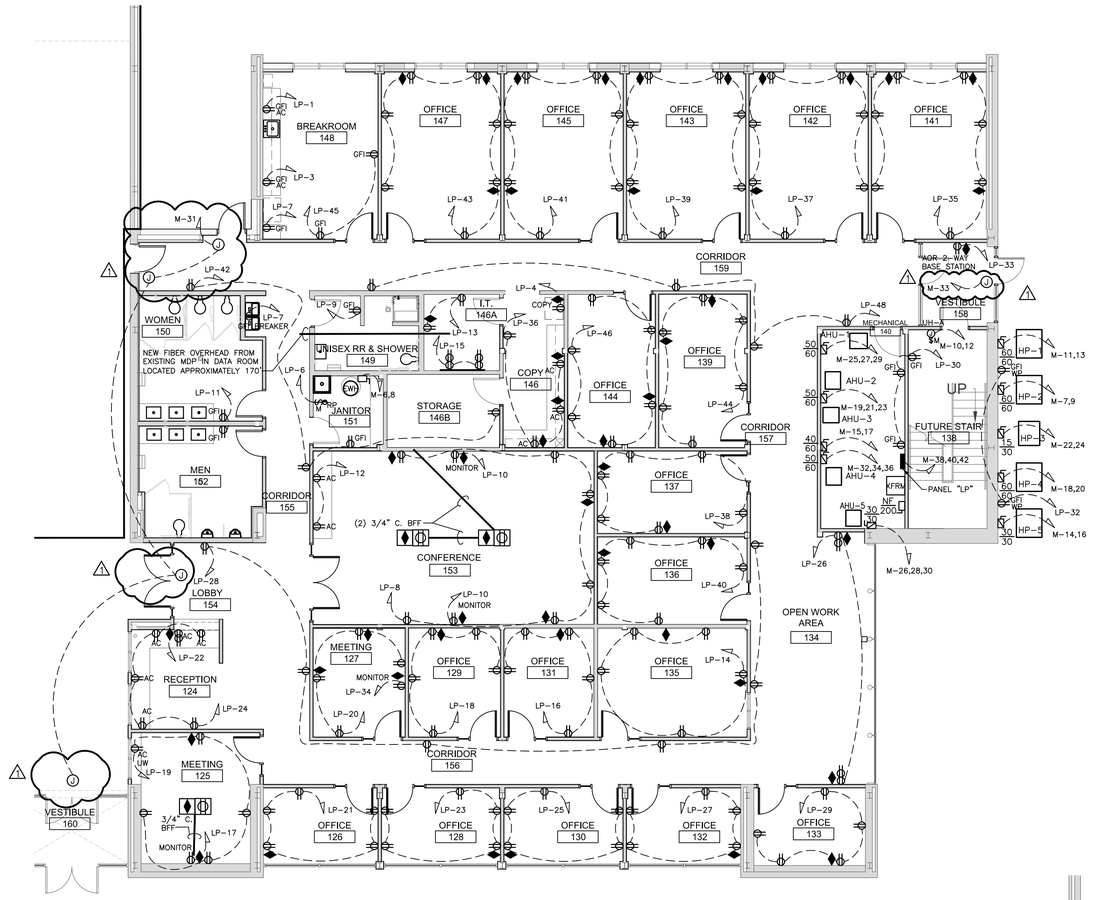
ISSUE DATE: **05/02/2024**
PROJECT #: **18056C**
DRAWN BY: **JLB**

SHEET NUMBER
E0.1

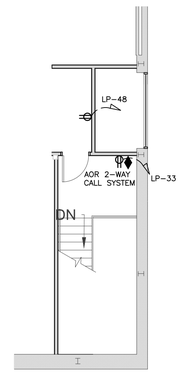
ELECTRICAL LEGEND (REFER TO MOUNTING HEIGHT SCHEDULE FOR MOUNTING HEIGHT INFORMATION)

	FLUORESCENT LIGHT FIXTURE, 2x4 FT.
	FLUORESCENT LIGHT FIXTURE NIGHT LIGHT
	FLUORESCENT STRIP LIGHT, 8 FT.
	FLUORESCENT STRIP LIGHT, 4 FT.
	FLUORESCENT LIGHT FIXTURE, 1x4 FT.
	FLUORESCENT LIGHT FIXTURE, 2'x2'
LIGHT	POLE MOUNTED LIGHT FIXTURE, AS SPECIFIED
	FLUORESCENT LIGHT FIXTURE WALL SCONCE
	OWNER SELECTED PENDANT MOUNTED
	EXTERIOR TWO-HEAD LIGHT
	EXTERIOR DOOR LIGHT
	LIGHT AND EXHAUST FAN COMBINATION
	EXHAUST FAN
	H.I.D. LIGHT FIXTURE, AS SPECIFIED.
	RECESSED OR SURFACE MOUNTED ROUND FIXTURE
	RECESSED NIGHT LIGHT
	WALL PACK
	BOLLARD EXTERIOR LIGHT
	EXTERIOR GROUND MOUNTED FLOOD LIGHT
J	JUNCTION BOX
	TELEPHONE OUTLET WITH COVER SEE DETAIL FOR INSTALLATION INSTRUCTIONS.
	DATA/LAN OUTLET WITH COVER. SEE DETAIL FOR INSTALLATION INSTRUCTIONS.
	EXIT LIGHT
	EMERGENCY EXIT LIGHT
	EMERGENCY LIGHT WALL MOUNTED UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE, 20 AMP, 120 V., "SPEC. GRADE"
	220 V. RECEPTACLE, MATCH APPLIANCE PLUG
	FLUSH MOUNTED FLOOR DUPLEX RECEPTACLE
	FLUSH MOUNTED FLOOR DATA/LAN OUTLET
	QUAD RECEPTACLE, 20 AMP, 120 V., "SPEC. GRADE"

$	WALL SWITCH, SINGLE POLE, 20 AMP, 120 V., "SPEC. GRADE"
$D	WALL SWITCH, DIMMER, 20 AMP, 120 V., "SPEC. GRADE"
$3	WALL SWITCH, 3-WAY, 20 AMP, 120 V., "SPEC. GRADE"
$M	MANUAL MOTOR STARTER, 20A, 120V
$$	DOUBLE GANG WALL SWITCH, 20 AMP, 120V., "SPEC. GRADE"
	NON-FUSED DISCONNECT SWITCH, 240V, 30A, U.N.O.
FUSE / FRAME	FUSED DISCONNECT SWITCH DISCONNECT FUSE SIZE DISCONNECT FRAME SIZE
P	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM HORN/STROBE
	FIRE ALARM STROBE
S	SMOKE DETECTOR
H	HEAT DETECTOR, CEILING MOUNTED
SD	DUCT SMOKE DETECTOR
FACP	FIRE ALARM CONTROL PANEL, FLUSH MOUNTED.
	GROUND - EXTEND AND CONNECT TO APPROVED GROUND
	ELECTRICAL PANEL - SURFACE MOUNTED.
	ELECTRICAL PANEL - FLUSH MOUNTED.
	UNSWITCHED CIRCUIT, 2#12 & 1 #12 G. IN 3/4" C., U.N.O.
	SWITCHED CIRCUIT
?-#	PANEL NAME-CIRCUIT #
WP	WEATHER PROOF
GFI	GROUND FAULT INTERRUPTER
A.F.F.	ABOVE FINISHED FLOOR
NL	NIGHT LIGHT
U.N.O.	UNLESS NOTED OTHERWISE
IG	ISOLATED GROUND
LC	LIGHTING CONTACTOR
EWC	ELECTRIC WATER COOLER
AC	ABOVE COUNTER
BC	BELOW COUNTER
EX	EXISTING
ETR	EXISTING TO REMAIN
ER	EXISTING TO BE RELOCATED



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



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

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1	ADDEN #04	6/04/24

POWER PLAN

SHEET NAME:

PHASE:
Construction Documents

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

SHEET NUMBER
E1.1

ES Project No: ES22059
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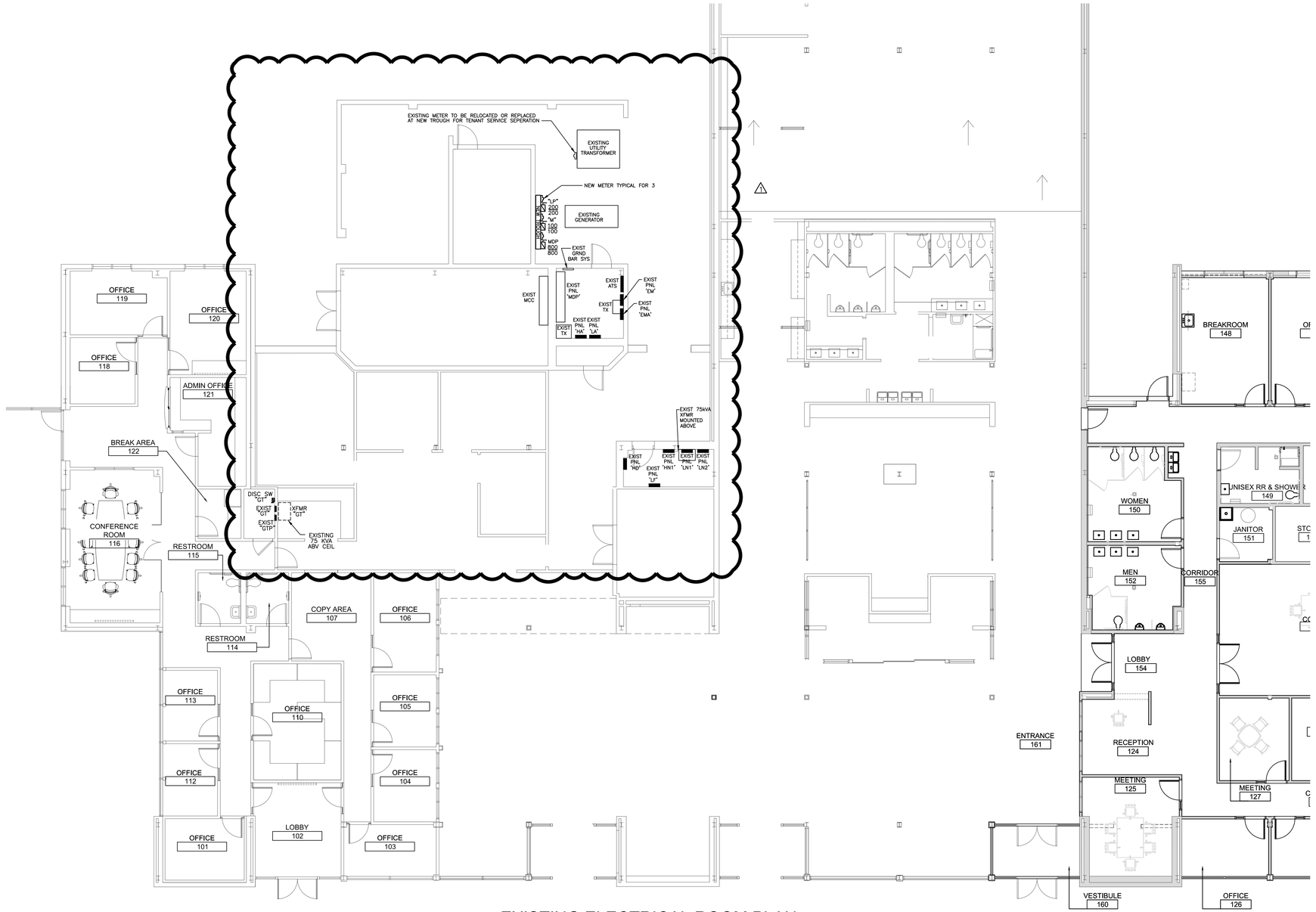
E-Mail Address: generalmail@engrsource.com
Voice (252) 439-0338 Fax (252) 439-0482 Firm #C-1973
SEAL 021993 ENGINEER JOHN MILSON



EXISTING ELECTRICAL ROOM PLAN

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

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SHEET NUMBER
E1.3