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DATE: September 23, 2026

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ATTENTION: BIDDERS

The South Central Transit Authority releases Addendum No. 2 for the following project:

**READING OPERATIONS CENTER DRIVER BREAKROOM & SHOP BAY
RENOVATION PROJECT
PROJECT # 10-2026
For the
SOUTH CENTRAL TRANSIT AUTHORITY**

ADDENDUM NO. 2

Contents:

1) Questions and Answers #1 - #17

The below revised drawing sheets and specifications are uploaded in PennBID under Public Files.

Item #'s 2 to 7 are in reference to the following questions that were asked on Addendum #1 that stated in SCTA's response that a clarifying note on a sheet or a specification update will be issued as part of an addendum: #'s 19, 20, 23, 24 and 26.

2) Drawing Sheet: AD-121, revised 09/04/2026.

3) Drawing Sheet: A-101, revised 09/04/2026.

4) Drawing Sheet: A-121, revised 09/04/2026.

5) Specification 024119 - Selective Demolition, revised 09/04/2026.

6) Specification 074213 - Insulated Metal Wall Panels, added 09/04/2026

7) Specification 123661 - Quartz Agglomerate Countertops, revised 09/04/2026.

8) Drawing Sheet: A-102, revised 09/22/2026

9) Drawing Sheet: E-101, revised 09/22/2026

10) Drawing Sheet: E-102, revised 09/22/2026

11) Drawing Sheet: E-201, revised 09/22/2026

12) Drawing Sheet: AD-102, revised 09/22/2026

13) Specification 102200 - Modular Partitions, revised 09/23/2026.

14) Specification 013300 - Submittal Procedures, revised 09/23/2026

THERE IS NO CHANGE IN THE DATE FOR THE RECEIPT OF BIDS. THE DATE FOR THE RECEIPT OF BIDS ELECTONICALLY VIA PENNBID IS WEDNESDAY, OCTOBER 7, 2026. BIDS ARE DUE BY 11:00 AM, AT <https://pennbid.bonfirehub.com>

ADDENDUM NO. 2 SHALL BECOME PART OF THE CONTRACT DOCUMENTS AND SHALL BE INCLUDED AND CONSIDERED IN THE PREPARATION OF THE BID.

BOARD OF DIRECTORS

Chair James Schlegel **Vice-Chair** June Wolf **Secretary** Gail Landis **Treasurer** Cheryl Love

Joy Ashley Sandra Burke Bonnie Glover Jessica Jones Timothy Snyder

Executive Director Gregory Downing

Firms are requested to acknowledge Addendum No. 2 on SCTA's Receipt of Addenda form.

Gregory Downing, Executive Director
South Central Transit Authority
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Lancaster, PA 17601
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**READING OPERATIONS CENTER DRIVER BREAKROOM & SHOP BAY
RENOVATION PROJECT**

PROJECT # 10-2026

**For the
SOUTH CENTRAL TRANSIT
AUTHORITY**

Addendum #2

Questions and Answers

1. Addendum #1: Expanded response to Question 23. Bid Form A carries unit prices for abatement of ACM in ceilings (2,000 SF) and floor mastic (2,125 SF); no asbestos abatement specification section (e.g., 02 82 00/02 83 00) appears in the Attachment E table of contents, and no hazardous-materials survey is included.

SCTA RESPONSE: Abatement unit prices are included to cover possible discovery of hazardous materials in disturbance of insulated piping and roofing materials, floor mastics and ceilings. Specification 024119 has been updated to include a parameter for removal of hazardous materials, if found, per phase to maintain operations.

2. Addendum #1: Revised response to Question 26. Drawing A-201 shows (2) exterior wall infills marked up as both infill to match existing CMU and insulated metal panel with studs. Details on A-301, note infill is to be metal panel and studs. Please confirm which is correct.

SCTA RESPONSE: Refer to wall sections on sheet A-301 for infill construction. Infill is metal panel over studs.

3. Can a basis of design or specification be provided for the 3" insulated metal panels?

SCTA RESPONSE: See provided specification 074213. 074213 is part of the GC scope of work.

4. Are the lounge chairs shown in the Lactation Room and Driver's Lounge by owner as stated on Drawing A-101 or by the GC as called out in the specifications?

SCTA RESPONSE: Lounge chairs are by GC.

5.a Is the existing roof under warranty? If so, who was the manufacturer and installer?
b. Who was the previous roofing contractor that installed the existing TPO roof?

**SCTA RESPONSE: Breakroom Roof: Installer: ERS Manufacturer: Carlisle Syntec
EPDM 20 Years Warranty: Active until June 15, 2040**

No information is available regarding installer, manufacturer or warranty for shop roof.

6. Is the Steel Certificate published in Addendum 1 to be submitted with the bid along with Certificate 1 and 2, or is it to be submitted upon award?

SCTA RESPONSE: Bidders shall submit Steel Certificate with bid submission.

7. Dwg E-201 Shows us adding a breaker to panel PA4, however this panel's location is not shown on the floorplans. Please provide a drawing showing the location of panel PA4.

SCTA RESPONSE: See Revised Drawing E-102 to show location of Panel PA4..

8. Dwg E-201 Shows us refeeding panel B, however this panels location is not shown on the floorplans. Please provide a drawing showing the location of panel B.

SCTA RESPONSE: Panel B was relabeled in the field as Panel PP#1. PP#1 is shown on Sheet E-101. The panel name on the single line diagram on revised Sheet E-201 to reflect the label in the field and on the plans. This also applies to Panel A (PP#2 on plans) and Panel C (PP#3 on plans).

9. Please verify whether the MDF is located in Computer & Vault 139. If it's not, please provide a drawing showing the location of the MDF.

SCTA RESPONSE: JMT will confirm and provide an addition drawing as needed.

10. Please provide the name and contact info for the vendor that maintains the existing fire alarm system.

**SCTA RESPONSE: JCI for fire system monitoring
SA Comunale for sprinkler maintenance**

11. Please provide a drawing showing the location of the fire alarm control panel.

SCTA RESPONSE: FACP is located at the entrance vestibule. See revised Drawing E-102.

12. Spec 284621.11, sections 2.1 & 2.2, list Notifier/Honeywell as the existing system; however, sections 2.3 & 2.4 list Simplex/JCI as the basis of design, with both Edwards and Siemens listed as equals. Please confirm the manufacturer of the existing system.

SCTA RESPONSE: The existing fire alarm system is Simplex 4010.

13. Please advise which trade will be responsible for trenching for new water and waste lines; GC or Plumbing contractor?

SCTA RESPONSE: The General Contractor is responsible for demolition related to the trenching, backfill, and patching of slab for Plumbing Contractor's removal and providing water and waste lines.

14. Please advise who will be responsible for roof patching?

SCTA RESPONSE: The General Contractor is responsible for roof patching.

15. Please clarify; plans call for existing bollards at wash bay to be cleaned and prepped for repainting but existing bollards have plastic sleeves. Should these be painted or should new plastic sleeves be installed?

SCTA RESPONSE: Existing bollards to be cleaned, prepped, and then painted. The existing plastic sleeves are to be cleaned and installed over newly painted bollards. Drawing will be updated to include a note for clarity. Refer to Specification 099600 - high performance coatings for bollard painting.

16. Please provide specification and panel manufacturer for new wash bay wall shown on A-102, 3-4-5 on A-301.

SCTA RESPONSE: Specification 102200 - Modular Partitions is included with Addendum #2.

17. Please provide specification for the safety net and track cable system noted on A102.

SCTA RESPONSE: Refer to specification 118129 - Horizontal Fall Protection.

Certificate

Pennsylvania Steel Products Procurement Act Certification

_____ hereby certifies that it complies
with the Steel Products Procurement Act, Act No.3 of 1978, March 3, P.L. 6, as amended by Act
No. 144 of 1984, July 9 (73 P.S. Section 1871 et seq.).

Name of Individual, Partnership or Corporation

Address

Name of Authorized Person

Signature

Date

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Submittal schedule requirements.
2. Administrative and procedural requirements for submittals.

B. Related Requirements:

1. Section 013100 "Project Management and Coordination" for submitting coordination drawings and subcontract list and for requirements for web-based Project software.
2. Section 013200 "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.
3. Section 013233 "Photographic Documentation" for submitting preconstruction photographs, periodic construction photographs, and Final Completion construction photographs.
4. Section 014000 "Quality Requirements" for submitting test and inspection reports, and schedule of tests and inspections.
5. Section 017700 "Closeout Procedures" for submitting closeout submittals and maintenance material submittals.
6. Section 017823 "Operation and Maintenance Data" for submitting operation and maintenance manuals.
7. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.
8. Section 017900 "Demonstration and Training" for submitting video recordings of demonstration of equipment and training of Owner's personnel.

1.2 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
- B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."

1.3 SUBMITTAL SCHEDULE

- A. Submittal Schedule: Submit, as an action submittal, a list of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include

additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
 - a. Submit revised submittal schedule as required to reflect changes in current status and timing for submittals.
2. Format: Arrange the following information in a tabular format:
 - a. Scheduled date for first submittal.
 - b. Specification Section number and title.
 - c. Submittal Category: Action; informational.
 - d. Name of subcontractor.
 - e. Description of the Work covered.
 - f. Scheduled date for Architect's final release or approval.

1.4 SUBMITTAL FORMATS

A. Submittal Information: Include the following information in each submittal:

1. Project name.
2. Date.
3. Name of Architect.
4. Unique submittal number, including revision identifier. Include Specification Section number with sequential alphanumeric identifier and alphanumeric suffix for resubmittals.
5. Category and type of submittal.
6. Submittal purpose and description.
7. Number and title of Specification Section, with paragraph number and generic name for each of multiple items.
8. Drawing number and detail references, as appropriate.
9. Indication of full or partial submittal.
10. Location(s) where product is to be installed, as appropriate.
11. Other necessary identification.
12. Remarks.
13. Signature of transmitter.

B. Options: Identify options requiring selection by Architect.

C. Deviations and Additional Information: On each submittal, clearly indicate deviations from requirements in the Contract Documents, including minor variations and limitations; include relevant additional information and revisions, other than those requested by Architect on previous submittals. Indicate by highlighting on each submittal or noting on attached separate sheet.

D. Electronic Submittals: Prepare submittals as PDF package, incorporating complete information into each PDF file. Name PDF file with submittal number.

- E. Submittals Utilizing Web-Based Project Software: Prepare submittals as PDF files or other format indicated by Project management software.

1.5 SUBMITTAL PROCEDURES

- A. Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
 - 1. Email: Prepare submittals as PDF package and transmit to Architect by sending via email. Include PDF transmittal form. Include information in email subject line as requested by Architect.
 - a. Architect will return annotated file. Annotate and retain one copy of file as a digital Project Record Document file.
 - 2. Web-Based Project Management Software: Prepare submittals in PDF form, and upload to web-based Project management software website. Enter required data in web-based software site to fully identify submittal.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
 - 3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
 - 4. Coordinate transmittal of submittals for related parts of the Work specified in different Sections, so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 - 1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 - 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 - 3. Resubmittal Review: Allow 15 days for review of each resubmittal.
 - 4. Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated, allow 21 days for initial review of each submittal.
- D. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.

1. Note date and content of previous submittal.
 2. Note date and content of revision in label or title block, and clearly indicate extent of revision.
 3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.
- E. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- F. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's and Construction Manager's action stamp.

1.6 SUBMITTAL REQUIREMENTS

- A. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
1. If information must be specially prepared for submittal because standard published data are unsuitable for use, submit as Shop Drawings, not as Product Data.
 2. Mark each copy of each submittal to show which products and options are applicable.
 3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.
 4. For equipment, include the following in addition to the above, as applicable:
 - a. Wiring diagrams that show factory-installed wiring.
 - b. Printed performance curves.
 - c. Operational range diagrams.
 - d. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
 5. Submit Product Data before Shop Drawings, and before or concurrently with Samples.
 6. **Buy America certification: For all product data submittals, provide signed certification by the Contractor that manufactured products meet FTA Buy America requirements of 49 U.S.C. 5323(j)(1) and the applicable regulations in 49 C.F.R. Part 661.5. Provide manufacturer's supporting documentation.**
- B. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.

1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.
- C. Samples: Submit Samples for review of type, color, pattern, and texture for a check of these characteristics with other materials.
 1. Transmit Samples that contain multiple, related components, such as accessories together in one submittal package.
 2. Identification: Permanently attach label on unexposed side of Samples that includes the following:
 - a. Project name and submittal number.
 - b. Generic description of Sample.
 - c. Product name and name of manufacturer.
 - d. Sample source.
 - e. Number and title of applicable Specification Section.
 - f. Specification paragraph number and generic name of each item.
 3. Web-Based Project Management Software: Prepare submittals in PDF form, and upload to web-based Project software website. Enter required data in web-based software site to fully identify submittal.
 4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
 - b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
 5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units, showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit **one** full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
 6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing

color, texture, and pattern; color range sets; and components used for independent testing and inspection.

- a. Number of Samples: Submit three sets of Samples. Architect will retain two Sample sets; remainder will be returned.
 - 1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
 - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.
- D. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
 1. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
 2. Manufacturer and product name, and model number if applicable.
 3. Number and name of room or space.
 4. Location within room or space.
- E. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- F. Design Data: Prepare and submit written and graphic information indicating compliance with indicated performance and design criteria in individual Specification Sections. Include list of assumptions and summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Number each page of submittal.
- G. Certificates:
 1. Certificates and Certifications Submittals: Submit a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity. Provide a notarized signature where indicated.
 2. Installer Certificates: Submit written statements on manufacturer's letterhead, certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
 3. Manufacturer Certificates: Submit written statements on manufacturer's letterhead, certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
 4. Material Certificates: Submit written statements on manufacturer's letterhead, certifying that material complies with requirements in the Contract Documents.
 5. Product Certificates: Submit written statements on manufacturer's letterhead, certifying that product complies with requirements in the Contract Documents.
 6. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of AWS B2.1/B2.1M on AWS forms. Include names of firms and personnel certified.

H. Test and Research Reports:

1. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for substrate preparation and primers required.
2. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
3. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
4. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
5. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
6. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
 - a. Name of evaluation organization.
 - b. Date of evaluation.
 - c. Time period when report is in effect.
 - d. Product and manufacturers' names.
 - e. Description of product.
 - f. Test procedures and results.
 - g. Limitations of use.

1.7 DELEGATED DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 1. If criteria indicated are insufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit **digitally signed PDF file** copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.
 1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

1.8 CONTRACTOR'S REVIEW

- A. Action Submittals and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Contractor's Approval: Indicate Contractor's approval for each submittal with a uniform approval stamp, and indication in web-based Project management software. Include name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.
 - 1. Architect will not review submittals received from Contractor that do not have Contractor's review and approval.

1.9 ARCHITECT'S REVIEW

- A. Action Submittals: Architect will review each submittal, indicate corrections or revisions required.
 - 1. PDF Submittals: Architect will indicate, via markup on each submittal, the appropriate action.
 - 1) APPROVED: The work involved may proceed, and no further submission is required.
 - 2) APPROVED AS NOTED: The work involved may proceed incorporating comments. Annotations do not authorize changes to Contract Sum.
 - 3) REVISE AND RESUBMIT: The work involved may not proceed. Submittal must be corrected and resubmitted.
 - 4) REJECTED: The submittal is not in accordance with the Contract Documents, and a completely new submittal is required
 - 2. Submittals by Web-Based Project Management Software: Architect will indicate, on Project management software website, the appropriate action.
 - a. Actions taken by indication on Project management software website have the following meanings:
 - 1) APPROVED: The work involved may proceed, and no further submission is required.
 - 2) APPROVED AS NOTED: The work involved may proceed incorporating comments. Annotations do not authorize changes to Contract Sum.
 - 3) REVISE AND RESUBMIT: The work involved may not proceed. Submittal must be corrected and resubmitted.
 - 4) REJECTED: The submittal is not in accordance with the Contract Documents, and a completely new submittal is required
- B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.

- C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents will be returned by Architect without action.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013300

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SECTION 024119 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition and removal of selected portions of building or structure.
2. Removal and salvage of existing items for delivery to Owner and removal of existing items for reinstallation.

B. Related Requirements:

1. Section 012200 "Unit Prices" for unit pricing related to ACM removals.

1.2 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.

1.3 PREINSTALLATION MEETINGS

- A. Pre-demolition Conference: Conduct conference at Project site.

1.4 INFORMATIONAL SUBMITTALS

- A. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property. Indicate proposed locations and construction of barriers.
- B. Schedule of selective demolition activities with starting and ending dates for each activity.
- C. Pre-demolition photographs or video.
- D. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician.

1.5 CLOSEOUT SUBMITTALS

- A. Inventory of items that have been removed and salvaged.

1.6 QUALITY ASSURANCE

- A. Refrigerant Recovery Technician Qualifications: Certified by an EPA-approved certification program.

1.7 FIELD CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work. A hazardous materials assessment has not been performed.
 - 1. Hazardous materials will be removed by General Contractor as part of the Work.
 - 2. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner.
 - 3. Sequence removal of hazardous materials per phase to maintain facility operations. Provide protection of occupants from abatement areas.
 - 4. Removal of Asbestos Containing Materials is covered by Unit Prices:
 - a. Unit Price No. 3: Abatement of Asbestos Containing Materials (ACM) in ceiling.
 - b. Unit Price No. 4: Abatement of Asbestos Containing Materials (ACM) in flooring.
- E. Storage or sale of removed items or materials on-site is not permitted.
- F. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.
- G. Arrange selective demolition schedule so as not to interfere with Owner's operations.

1.8 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials and using approved contractors so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities and / or building systems have been disconnected and capped at areas of work before starting selective demolition operations.
- B. Inventory and record the condition of items to be removed and salvaged.

3.2 PREPARATION

- A. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment according to 40 CFR 82 and regulations of authorities having jurisdiction.

3.3 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively demolished.
 - 1. Owner will arrange to shut off indicated services/systems when requested by Contractor.
 - 2. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
 - 3. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.

- d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
- e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
- f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
- g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

3.4 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
- B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
- C. Remove temporary barricades and protections where hazards no longer exist.

3.5 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
 - 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 - 3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 - 4. Maintain fire watch during and for at least two hours after flame-cutting operations.
 - 5. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 - 6. Dispose of demolished items and materials promptly. Comply with requirements in Section 017419 "Construction Waste Management and Disposal."
- B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

C. Removed and Salvaged Items:

1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify contents of containers.
3. Store items in a secure area until delivery to Owner.
4. Transport items to Owner's storage area designated by Owner.
5. Protect items from damage during transport and storage.

D. Removed and Reinstalled Items:

1. Clean and repair items to functional condition adequate for intended reuse.
2. Pack or crate items after cleaning and repairing. Identify contents of containers.
3. Protect items from damage during transport and storage.
4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

- E. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.6 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, and then remove masonry between saw cuts.
- B. Concrete Slabs-on-Grade: Saw-cut perimeter of area to be demolished and then break up and remove.
- C. Resilient Floor Coverings and Tiles: Remove floor coverings and adhesive in accordance with recommendations in RFCI's "Recommended Work Practices for the Removal of Resilient Floor Coverings." Do not use methods requiring solvent-based adhesive strippers.
- D. Roofing: Remove no more existing roofing, accessories, and flashings than what can be covered in one day by new roofing assembly and so that building interior remains watertight and weathertight. See Section 075419 "Polyvinyl-Chloride (PVC) Roofing" for new roofing requirements.

3.7 CLEANING

- A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.
1. Do not allow demolished materials to accumulate on-site.

2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 3. Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."
- B. Burning: Do not burn demolished materials.
- C. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119

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SECTION 074213 - INSULATED METAL WALL PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Foamed-insulation-core metal wall panels.

1.2 ACTION SUBMITTALS

A. Product Data:

1. Foamed-insulation-core metal wall panels.

B. Product Data Submittals: For each product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.

C. Shop Drawings:

1. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
2. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 1-1/2 inches per 12 inches.

D. Samples for Initial Selection: For each type of metal panel indicated with factory-applied color finishes.

1. Include similar Samples of trim and accessories involving color selection.

1.3 INFORMATIONAL SUBMITTALS

A. Sample Warranties: For special warranties.

B. Buy America certification. Provide signed certification by the Contractor that manufactured products meet FTA Buy America requirements of 49 U.S.C. 5323(j)(1) and the applicable regulations in 49 C.F.R. Part 661.5. Provide manufacturer supporting documentation.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For metal panels to include in maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
- B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.
- C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.
- D. Retain strippable protective covering on metal panels during installation.

1.7 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed in accordance with manufacturers' written instructions and warranty requirements.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including rupturing, cracking, or puncturing.
 - b. Deterioration of metals and other materials beyond normal weathering.
 - 2. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing in accordance with ASTM E72:
 - 1. Wind Loads: 1100 mph..

2. Deflection Limits: For wind loads, no greater than 1/240 of the span.

- B. Air Infiltration: Air leakage of not more than 0.06 cfm/sq. ft. when tested in accordance with ASTM E283 at the following test-pressure difference:
- C. Water Penetration under Static Pressure: No water penetration when tested in accordance with ASTM E331 at the following test-pressure difference:

2.2 FOAMED-INSULATION-CORE METAL WALL PANELS

- A. General: Provide factory-formed and -assembled metal wall panels fabricated from two metal facing sheets and insulation core foamed in place during fabrication, and with joints between panels designed to form weathertight seals. Include accessories required for weathertight installation.
 - 1. Insulation Core: Modified isocyanurate or polyurethane foam using a non-CFC blowing agent, with maximum flame-spread and smoke-developed indexes of 25 and 450, respectively.
 - a. Closed-Cell Content: 90 percent when tested in accordance with ASTM D6226.
 - b. Density: 2.0 to 2.6 lb/cu. ft. when tested in accordance with ASTM D1622.
 - c. Compressive Strength: Minimum 20 psi when tested in accordance with ASTM D1621.
 - d. Shear Strength: 26 psi when tested in accordance with ASTM C273/C273M.
 - B. Concealed-Fastener, Foamed-Insulation-Core Metal Wall Panels: Formed with tongue-and-groove panel edges; designed for sequential installation by interlocking panel edges and mechanically attaching panels to supports using concealed clips or fasteners.
 - 1. 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]:
 - a. CENTRIA, a Nucor Brand
 - b. Kingspan Insulated Panels, Inc.
 - c. MBCI; Cornerstone Building Brands
 - d. Metl-Span; a Nucor Brand
 - 2. Metallic-Coated Steel Sheet: Facings of zinc-coated (galvanized) steel sheet complying with ASTM A653/A653M, G90 coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A792/A792M, Class AZ50 coating designation; structural quality. Prepainted by the coil-coating process to comply with ASTM A755/A755M.
 - a. Nominal Thickness: 0.028 inch.
 - b. Exterior Finish: Two-coat fluoropolymer.
 - 1) Color: As selected by Architect from manufacturer's full range of solid colors.
 - c. Interior Finish: Siliconized polyester.

3. Panel Coverage: See Drawings.
4. Panel Thickness: 3.0 inches.
5. Thermal-Resistance Value (R-Value): R-15 minimum in accordance with ASTM C1363.

2.3 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Subframing and Furring: ASTM C645, cold-formed, metallic-coated steel sheet, ASTM A653/A653M, G90 coating designation or ASTM A792/A792M, Class AZ50 aluminum-zinc-alloy coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
- B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
 1. Closures: Provide closures at eaves and rakes, fabricated of same metal as metal panels.
 2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
 3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
- C. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fasciae, parapet caps, soffits, reveals, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.
- D. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal panels by means of plastic caps or factory-applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.
- E. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
 1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.
 2. Joint Sealant: ASTM C920; elastomeric polyurethane or silicone sealant; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended in writing by metal panel manufacturer.
 3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C1311.

2.4 FABRICATION

- A. General: Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements

demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

- B. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.
- C. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.
- D. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.
 - 1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
 - 2. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints for additional strength.
 - 3. Seams for Other Than Aluminum: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.
 - 4. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
 - 5. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
 - 6. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.
 - a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal wall panel manufacturer for application but not less than thickness of metal being secured.

2.5 FINISHES

- A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Steel Panels and Accessories:
 - 1. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.
 1. Examine wall framing to verify that studs and other structural panel support members and anchorage have been installed within alignment tolerances required by metal wall panel manufacturer.
 2. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal wall panel manufacturer.
 - a. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
- B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages in accordance with ASTM C754 and metal panel manufacturer's written recommendations.

3.3 INSTALLATION OF METAL PANELS

- A. General: Install metal panels in accordance with manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.
 1. Shim or otherwise plumb substrates receiving metal panels.
 2. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal panels are installed.
 3. Install screw fasteners in predrilled holes.
 4. Locate and space fastenings in uniform vertical and horizontal alignment.
 5. Install flashing and trim as metal panel work proceeds.
 6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices

- and end laps to avoid a four-panel lap splice condition.
 - 7. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
 - 8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.
- B. Fasteners:
- 1. Steel Panels: Use stainless steel fasteners for surfaces exposed to the exterior; use galvanized-steel fasteners for surfaces exposed to the interior.
- C. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.
- D. Joint Sealers: Install gaskets, joint fillers, and sealants where indicated and where required for weathertight performance of metal wall panel assemblies. Provide types of gaskets, fillers, and sealants indicated by metal panel manufacturer; or, if not indicated, provide types recommended by metal wall panel manufacturer.
- 1. Seal metal wall panel end laps with double beads of tape or sealant, full width of panel. Seal side joints where recommended by metal wall panel manufacturer.
 - 2. Prepare joints and apply sealants to comply with requirements in Section 079200 "Joint Sealants."

3.4 INSTALLATION OF INSULATION-CORE METAL WALL PANELS

- A. General: Apply continuous ribbon of sealant to panel joint on concealed side of insulated metal wall panels as vapor seal; apply sealant to panel joint on exposed side of panels for weather seal.
- 1. Fasten foamed-insulation-core metal wall panels to supports with fasteners at each lapped joint at location and spacing and with fasteners recommended by manufacturer.
 - 2. Apply panels and associated items true to line for neat and weathertight enclosure. Avoid "panel creep" or application not true to line.
 - 3. Provide metal-backed washers under heads of exposed fasteners on weather side of insulated metal wall panels.
 - 4. Locate and space exposed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer.
 - 5. Provide sealant tape at lapped joints of insulated metal wall panels and between panels and protruding equipment, vents, and accessories.
 - 6. Apply a continuous ribbon of sealant tape to panel side laps and elsewhere as needed to make panels weathertight.
 - 7. Apply snap-on battens to exposed-fastener, insulated-core metal wall panel seams to conceal fasteners.
- B. Foamed-Insulation-Core Metal Wall Panels: Fasten metal wall panels to supports with concealed clips at each joint at location and spacing and with fasteners recommended by manufacturer. Fully engage tongue and groove of adjacent panels.
- 1. Install clips to supports with self-tapping fasteners.

2. Framed-Edge Panels: Mechanically attach wall panels through integral, extruded edge members to supports using self-tapping fasteners. Seal joints with manufacturer's standard gaskets.
- C. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
 1. Install components required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal panel manufacturer; or, if not indicated, provide types recommended by metal panel manufacturer.
- D. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level. Install work with laps, joints, and seams that are permanently watertight.
 1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and to achieve waterproof performance.
 2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

3.5 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
- B. After metal panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.
- C. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 074213

SECTION 102200 – MODULAR PARTITIONS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. Modular all-purpose partitions.

1.2 SUBMITTALS

- A. Submit under provisions of Section 013000 Submittal Procedures.
- B. Product Data:
 - 1. Manufacturer's data sheets on each product to be used.
 - 2. Preparation instructions and recommendations.
 - 3. Storage and handling requirements and recommendations.
 - 4. Typical installation methods.
- C. Samples: Two representative units of each type, size, pattern, and color.
- D. Shop Drawings: Include details of materials, construction, and finish.

1.3 INFORMATIONAL SUBMITTALS

- A. Buy America certification. Provide signed certification by the Contractor that manufactured products meet FTA Buy America requirements of 49 U.S.C. 5323(j)(1) and the applicable regulations in 49 C.F.R. Part 661.5. Provide manufacturer's supporting documentation.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of five years documented experience.
- B. Installer Qualifications: Company specializing in performing work of this section with basic carpentry skills and experience with projects of similar scope and complexity.
- C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle in strict compliance with manufacturer's written instructions and recommendations.

- B. Protect from damage due to weather, excessive temperature, and construction operations.

1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.7 WARRANTY

- A. Manufacturer's standard 10 year limited warranty unless indicated otherwise.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer:
 - 1. Basis of Design: National Partitions
 - 2. Allied Modular.
 - 3. PortaFab.
 - 4. Or approved equal.

- B. MODULAR PARTITIONS:
 - 1. Basis of Design: Cleanwall self-supported standalone wall partition system.
 - 2. Performance Requirements:
 - a. Panels: 3" thick fully fabricated 26 gauge, hot dipped galvanized facing with bake on enamel.
 - 1) Height: As indicated in drawings
 - b. Insulation: Expanded polystyrene, 1 pound density, fire retardant class "A", flame spread 15, smoke development 25-85, R-12, U-0.09, effective temperature range 180 degrees Fahrenheit, water absorption less than 2 percent.
 - c. Channel: Base channel shall be a continuous, aluminum U channel finished to match post system.
 - d. Post System: Painted 20 gauge galvanized high strength steel, 2-piece design connected with bolts on 20" centers. Trimmed with painted 26 gauge steel feature fillers that snap into posts on each side.
 - e. Door: Single door, 18 gauge steel with powder coated finish
 - 1) Height: As indicated in drawings
 - 2) Width: As indicated in drawings.
 - f. Color: White.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly constructed and prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instruction, approved submittals, and in proper relationship with adjacent construction.
- B. Install panels level and plumb.
- C. Install doors square, level, plumb, and free of racking. Ensure proper operation of door and hardware.
- D. Paint unfinished or cut steel surfaces with rust-inhibitive coating or touch-up paint recommended by manufacturer prior to installation.
- E. Seal base of panels at connection to floor.

3.4 FIELD QUALITY CONTROL

- A. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.

3.5 CLEANING AND PROTECTION

- A. Clean products in accordance with the manufacturer's recommendations.
- B. Touch up, repair or replace damaged products before Substantial Completion.

END OF SECTION 102200

SECTION 123661 - QUARTZ AGGLOMERATE COUNTERTOPS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Quartz agglomerate countertops.
2. Quartz agglomerate backsplashes.
3. Quartz agglomerate end splashes.

1.2 ACTION SUBMITTALS

- A. Product Data: For countertop materials.
- B. Shop Drawings: For countertops. Show materials, finishes, edge and backsplash profiles, methods of joining, and cutouts for plumbing fixtures.
- C. Samples: For each type of material exposed to view.

PART 2 - PRODUCTS

2.1 QUARTZ AGGLOMERATE COUNTERTOP MATERIALS

- A. Quartz Agglomerate: Solid sheets consisting of quartz aggregates bound together with a matrix of filled plastic resin and complying with ISFA 3-01.
1. **Manufacturers:**
 - a. Basis of design: Corian Quartz
 - b. Cambria
 - c. MSI Q
 - d. Or approved equal
 2. **Colors and Patterns:** ~~As selected by Architect from manufacturer's full range~~ **Beige Royal .**

2.2 FABRICATION

- A. Fabricate countertops according to quartz agglomerate manufacturer's written instructions and the AWI/AWMAC/WI's "Architectural Woodwork Standards."
1. Grade: Premium.
- B. Configuration:
1. Front: Straight, slightly eased at top.

2. Backsplash: Straight, slightly eased at corner.
 3. End Splash: None.
- C. Countertops: 1-1/2-inch thick, quartz agglomerate with front edge built up with same material.
- D. Backsplashes: 3/4-inch- (19-mm-) thick, quartz agglomerate.
- E. Joints:
1. Fabricate countertops without joints.
 2. Fabricate countertops in sections for joining in field, with joint Locations to be coordinated with Architect.
- F. 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.

2.3 INSTALLATION MATERIALS

- A. Adhesive: Product recommended by quartz agglomerate manufacturer.
- B. Sealant for Countertops: Comply with applicable requirements in Section 079200 "Joint Sealants."

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Fasten countertops by screwing through corner blocks of base units into underside of countertop. Predrill holes for screws as recommended by manufacturer.
- B. Bond joints with adhesive and draw tight as countertops are set. Mask areas of countertops adjacent to joints to prevent adhesive smears.
- C. Install backsplashes and end splashes by adhering to wall and countertops with adhesive.
- D. Install aprons to backing and countertops with adhesive.
- E. Complete cutouts not finished in shop. Mask areas of countertops adjacent to cutouts to prevent damage while cutting. Make cutouts to accurately fit items to be installed, and at right angles to finished surfaces unless beveling is required for clearance. Ease edges slightly to prevent snipping.
- F. Apply sealant to gaps at walls; comply with Section 079200 "Joint Sealants."

END OF SECTION 123661

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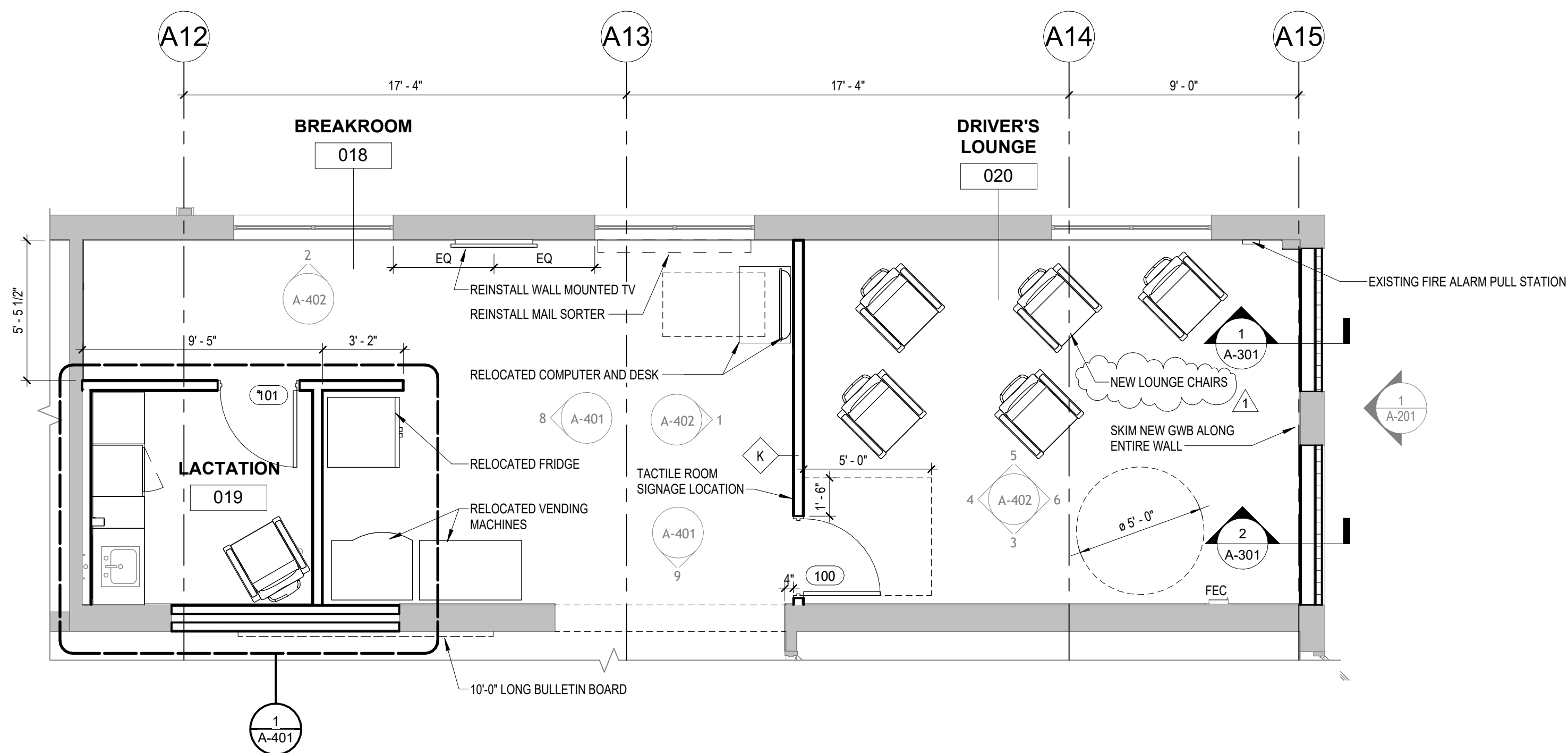
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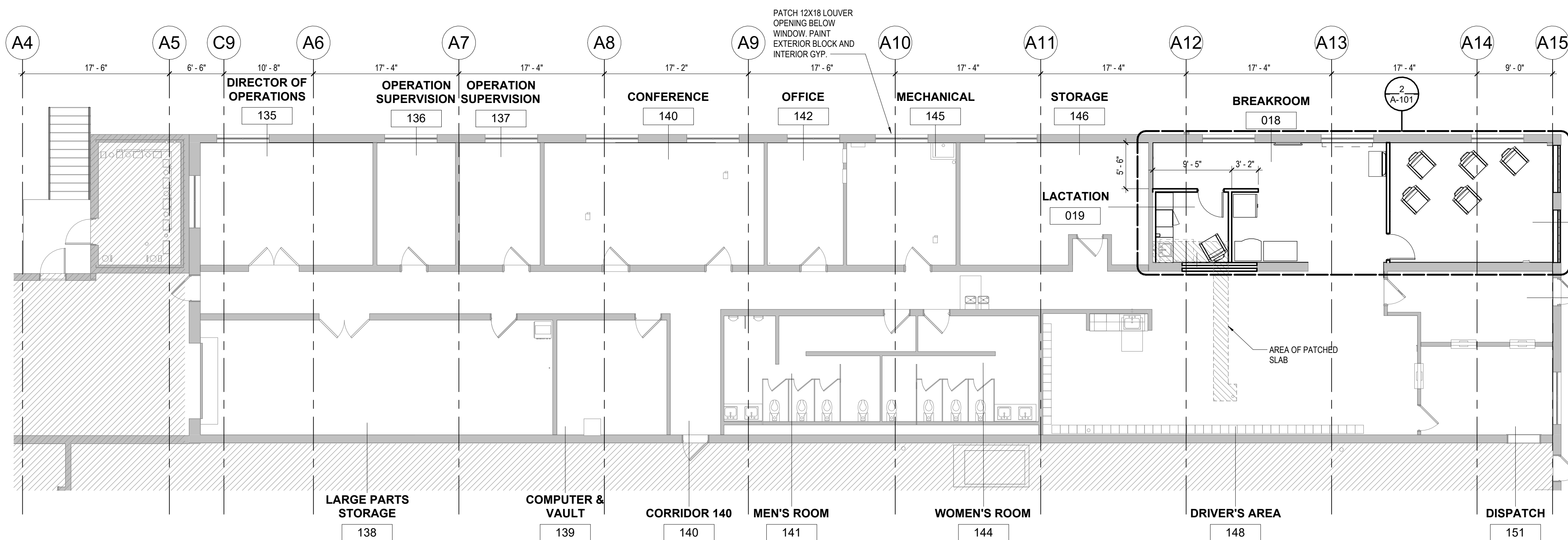
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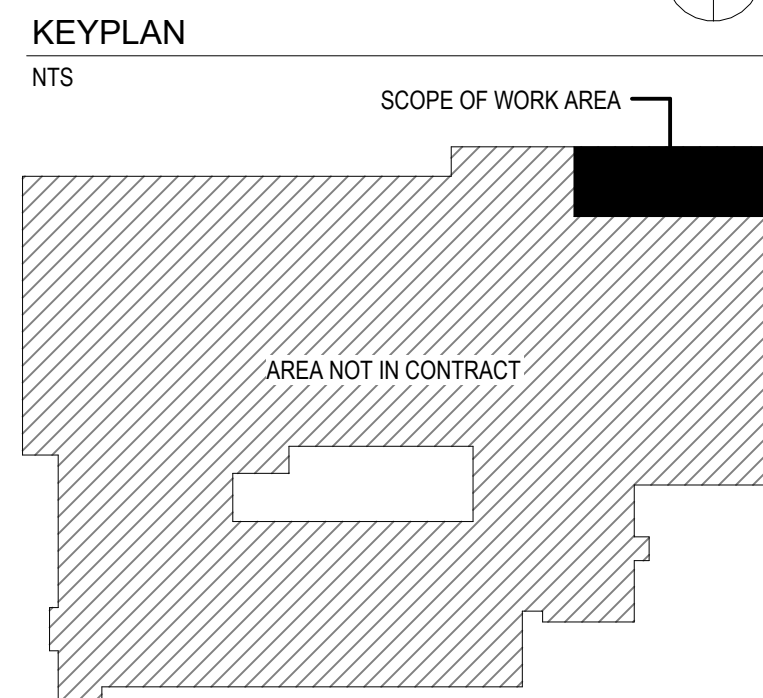
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2 ENLARGED FLOOR PLAN - BREAKROOM
1/4" = 1'-0"

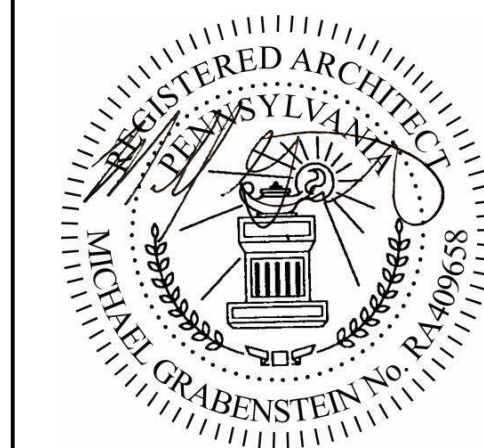


1 FLOOR PLAN - BREAKROOM
1/8" = 1'-0"



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SEAL:



PROJECT:
**SOUTH CENTRAL
TRANSIT
AUTHORITY**
DRIVER BREAKROOM
AND ENGINE WASH BAY

1700 N. 11TH STREET
READING PA 19604

PREPARED FOR:

**SOUTH CENTRAL
TRANSIT AUTHORITY**
45 ERICK ROAD
LANCASTER PA 17601

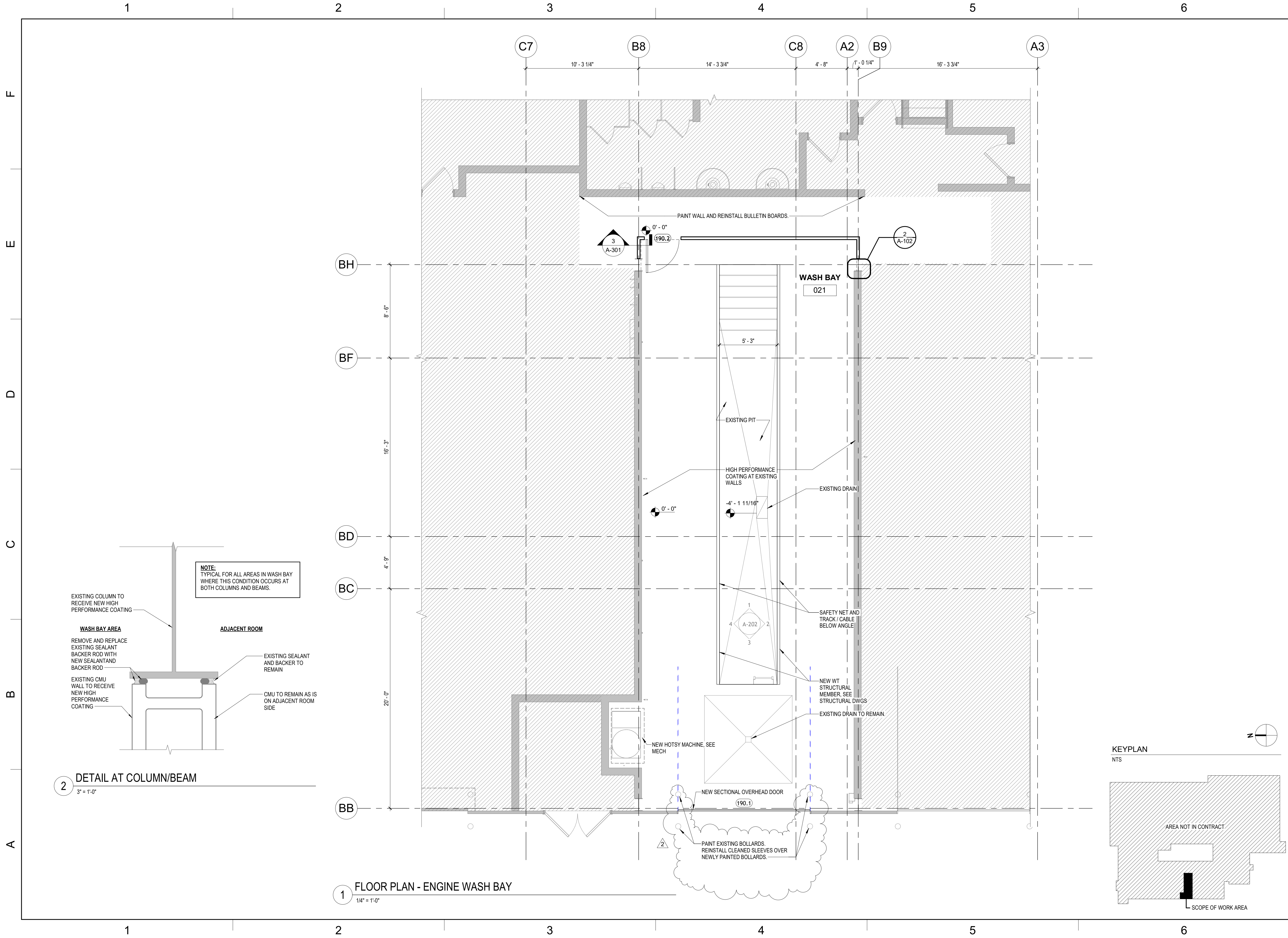
1	09/04/2026	Addendum 1
07/23/2026	100% SUBMISSION	
MARK	DATE	DESCRIPTION
PROJECT NO: 22-03808-004		
DATE: 07/23/2026		
SCALE: As indicated		
DESIGNED BY: Designer		
DRAWN BY: Author		
CHECKED BY: Checker		

DRAWING TITLE:
**FLOOR PLAN -
BREAKROOM**

SHEET NUMBER:

A-101

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SEAL:

MICHAEL GRABENSTEIN No. PA440658

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LANCASTER PA 17601

MARK	DATE	DESCRIPTION
2	9/23/2026	Addendum 2
	07/23/2026	100% SUBMISSION

PROJECT NO: 22-03808-004
DATE: 07/23/2026
SCALE: As indicated
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

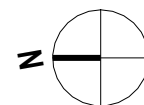
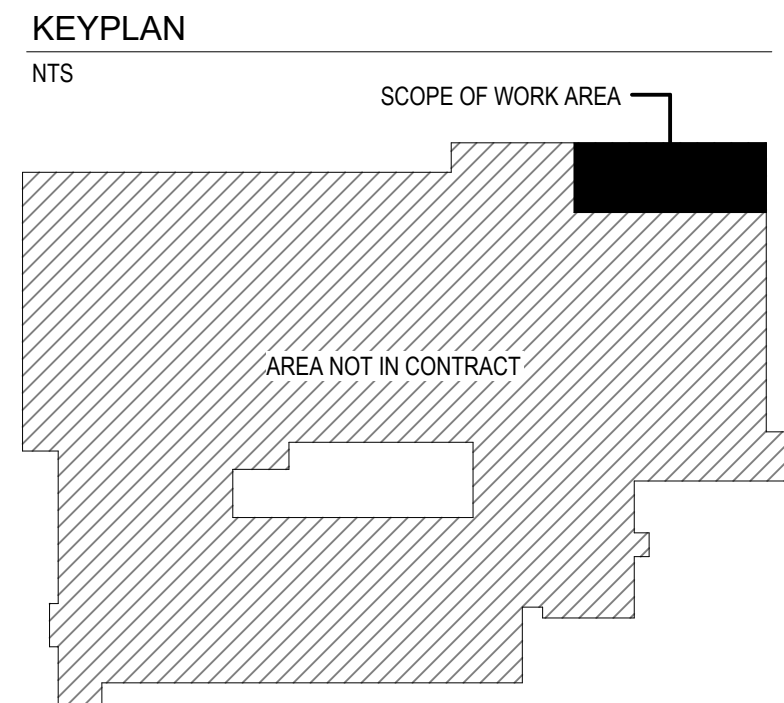
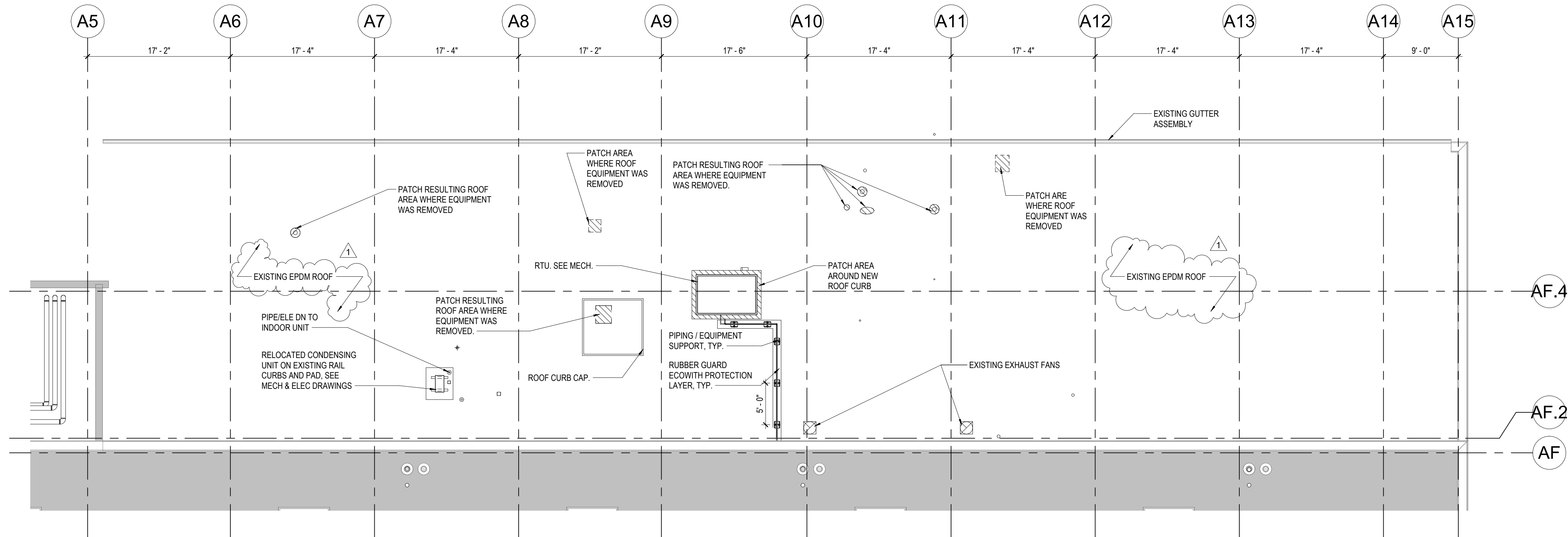
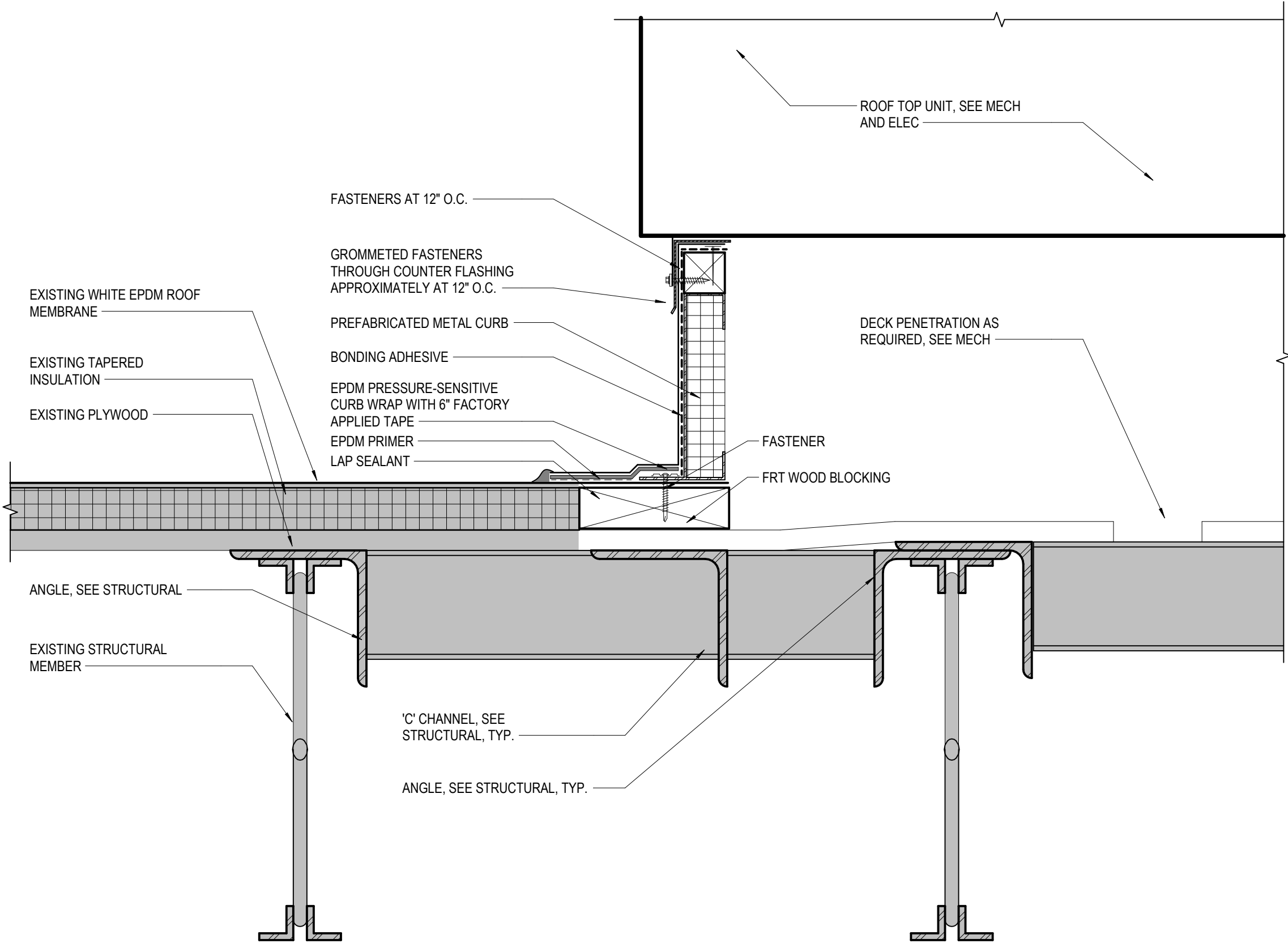
DRAWING TITLE:
**FLOOR PLAN - ENGINE
WASH BAY**

SHEET NUMBER:
A-102

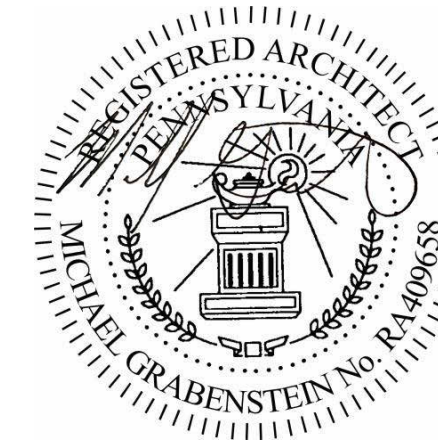
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SEAL:



PROJECT:
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AUTHORITY**
DRIVER BREAKROOM
AND ENGINE WASH BAY

1700 N. 11TH STREET
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PREPARED FOR:

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45 ERICK ROAD
LANCASTER PA 17601

MARK	DATE	DESCRIPTION
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	07/23/2026	100% SUBMISSION

PROJECT NO: 22-03808-004

DATE: 07/23/2026

SCALE: As indicated

DESIGNED BY: NM

DRAWN BY: CB/NM

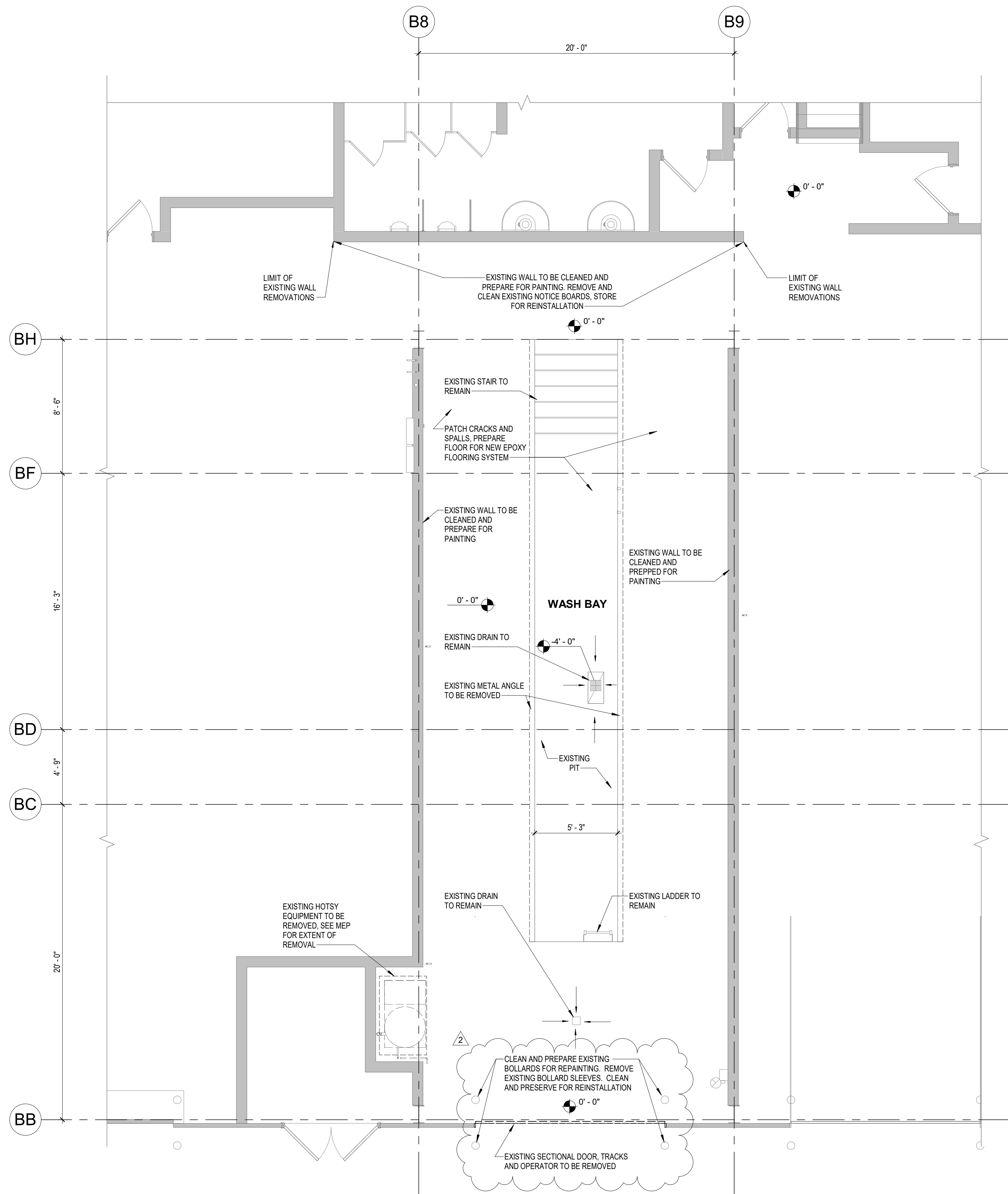
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DRAWING TITLE:
ROOF PLAN - ADMIN

SHEET NUMBER:

A-121

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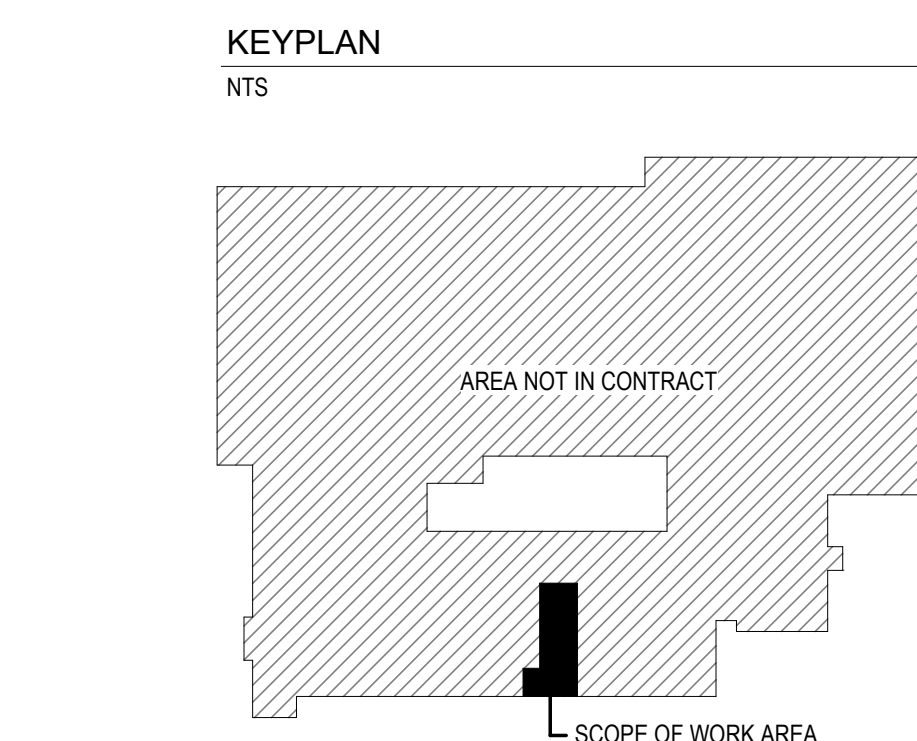


1 DEMOLITION FLOOR PLAN - WASH BAY
1/4" = 1'-0"

GENERAL DEMOLITION NOTES

1. RESPONSIBLE CONTRACTOR TO PROVIDE TEMPORARY PROTECTION OF ALL EXISTING CONSTRUCTION TO REMAIN ADJACENT TO AREAS OF WORK.
2. RESPONSIBLE CONTRACTOR TO PROVIDE TEMPORARY PROTECTION OF ALL EXISTING TO REMAIN ROOMS WHERE MECHANICAL WORK IS OCCURRING IN CEILINGS ABOVE.
3. SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE.
4. ALL EXISTING FURNITURE TO BE SALVAGED AND PROTECTED.

PLAN LEGEND	
	EXISTING CONSTRUCTION
	NEW CONSTRUCTION



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2	9/23/2026	Addendum 2
	07/23/2026	100% SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NO: 22-03808-004		
DATE: 07/23/2026		
SCALE: As indicated		
DESIGNED BY: Designer		
DRAWN BY: Author		
CHECKED BY: Checker		

DRAWING TITLE:

**DEMOLITION FLOOR
PLAN - WASH BAY**

SHEET NUMBER:

AD-102

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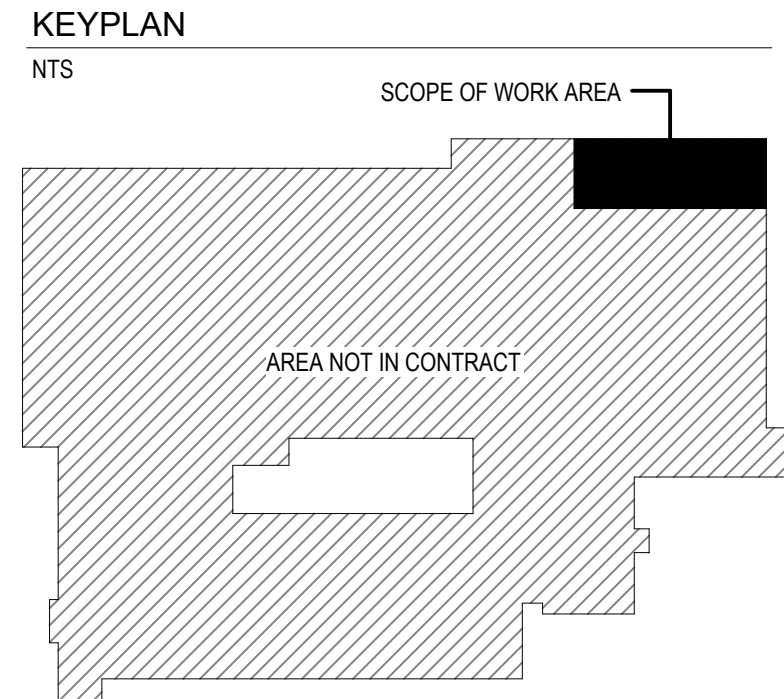
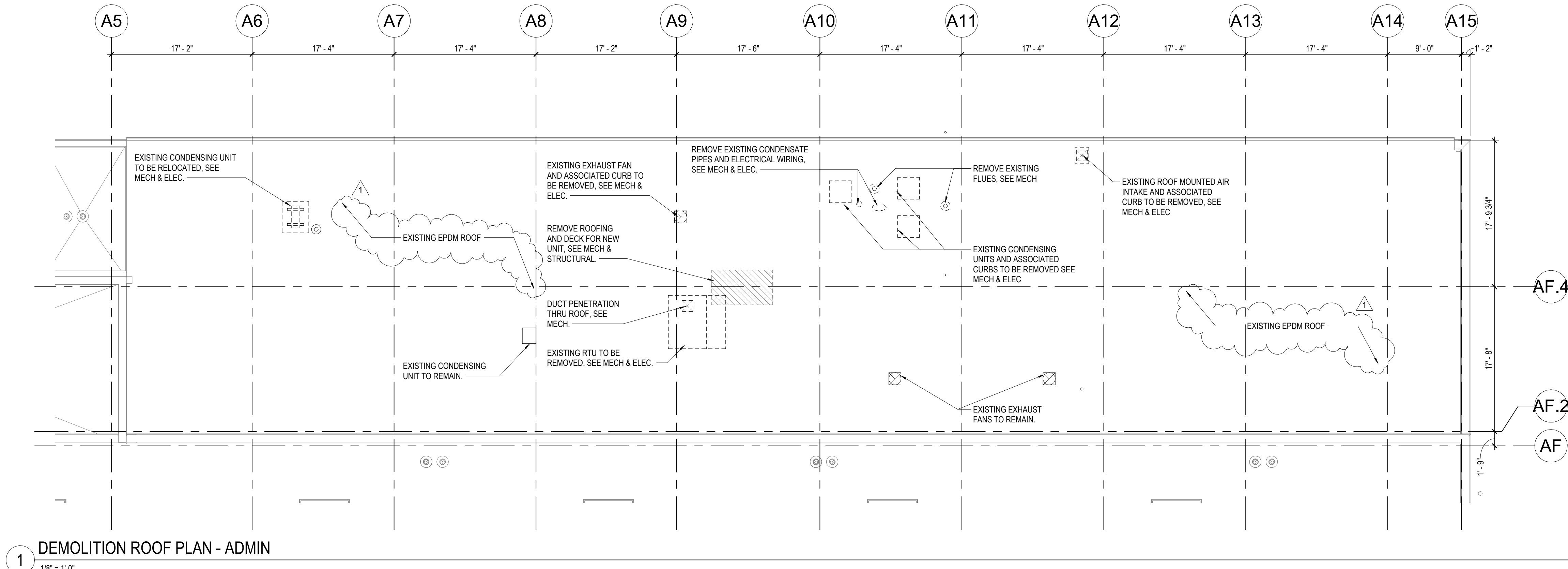
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PROJECT NO: 22-03808-004
DATE: 07/23/2026
SCALE: 1/8" = 1'-0"
DESIGNED BY: NM
DRAWN BY: CB/NM
CHECKED BY: MG

DRAWING TITLE:
**DEMOLITION ROOF
PLAN - BREAKROOM**

SHEET NUMBER:
AD-121

1 2 3 4 5 6

Aubdesk Docs\\22-03808-004- SCTA Reading Driver Lounge and Chassis Wash\\22-03808-004_SCTA-SARTA_MEP_R2024.rvt
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LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LUMENS	WATTS	CCT	CRI	VOLTAGE
A	2'x2' LED TROFFER; RECESSED; CURVED RIBBED DIFFUSER; WHITE FINISH	LITHONIA LIGHTING	2BLT2-33L-ADP-EZ1-LP840	3300	27	4000	80	120
AE	2'x2' LED TROFFER; RECESSED; CURVED RIBBED DIFFUSER; WHITE FINISH; INTEGRAL EMERGENCY BATTERY PACK	LITHONIA LIGHTING	2BLT2-33L-ADP-EZ1-LP840-E10W	3300	27	4000	80	120
Ⓢ	LED EDGE LIT EXIT SIGN; RED LETTERS ON MIRROR BACKGROUND	LITHONIA LIGHTING	EDG-1-RMR-EL	N/A	3	RED LED	RED LED	120

GENERAL SHEET NOTES:

- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAVE BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY SOLID (——) SHALL BE NEW, AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (——) SHALL BE EXISTING TO REMAIN.
- REFER TO SHEET E-001 FOR LEGEND, ABBREVIATIONS, GENERAL PROJECT NOTES & LIGHT FIXTURE SCHEDULE.
- REFER TO SHEET E-601 FOR PANELBOARD SCHEDULES.
- COORDINATE ALL POWER OUTAGES WITH SCTA PRIOR TO SHUTTING OFF POWER. LENGTH OF POWER OUTAGES SHALL BE MINIMIZED AND NOT AFFECT FACILITY OPERATIONS.

SHEET KEYNOTES:

- UNIT PROVIDED WITH FACTORY INSTALLED VFD, DISCONNECT AND POWERED CONVENIENCE OUTLET.
- PROVIDE 3#4 AND 1#8 GROUND IN 1" CONDUIT.
- UNIT PROVIDED WITH FACTORY INSTALLED DISCONNECT SWITCH.
- PROVIDE 3#12 AND 1#12 GROUND IN 3/4" CONDUIT.
- DUCT SMOKE DETECTOR FOR ROOF TOP UNIT. ACTIVATION OF DUCT SMOKE DETECTOR SHALL AUTOMATICALLY SHUT DOWN ROOF TOP UNIT.
- PROVIDE REMOTE ALARM INDICATOR WITH TEST SWITCH MOUNTED ON WALL 66-INCHES ABOVE FINISHED FLOOR. PROVIDE NECESSARY CONNECTION TO DUCT SMOKE DETECTORS, SHOWN ON ROOF PLAN, THIS SHEET.
- PROVIDE 2#12 AND 1#12 GROUND IN 3/4" CONDUIT.

1 ELECTRICAL NEW WORK - DRIVERS AREA ROOF

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

2 ELECTRICAL NEW WORK - DRIVERS AREA FLOOR PLAN

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

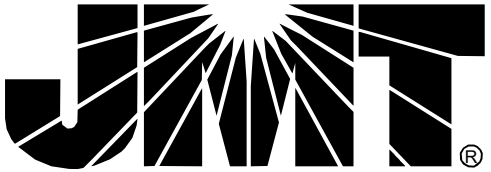
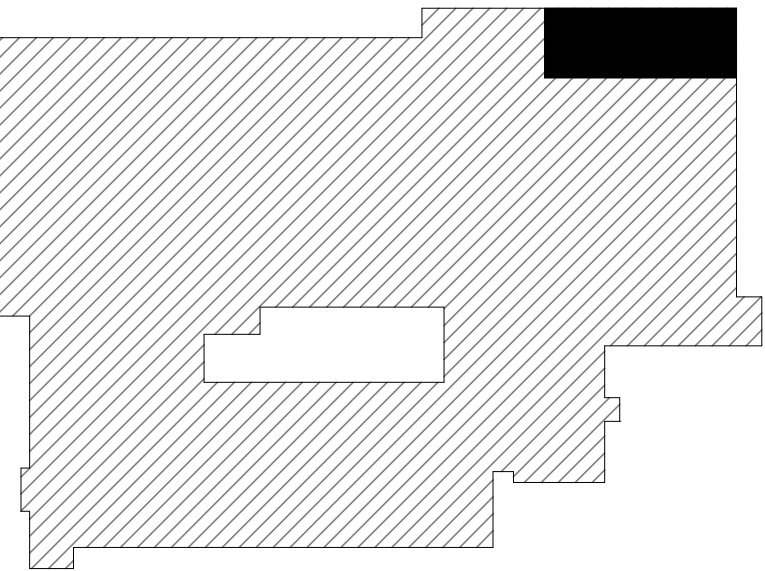
3 LIGHTING NEW WORK - DRIVERS AREA REFLECTED CEILING PLAN

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

4' 0' 4' 8'
SCALE: 1/8" = 1'-0"



KEYPLAN



JOHNSON, MIRMIAN & THOMPSON, INC.
220 ST. CHARLES WAY, SUITE 200
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717.741.1600
WWW.JMT.COM

SEAL:



PROJECT:

**SOUTH CENTRAL
TRANSIT
AUTHORITY**
DRIVER BREAKROOM
AND ENGINE WASH BAY

1700 N. 11TH STREET
READING PA 19604

PREPARED FOR:

**SOUTH CENTRAL
TRANSIT AUTHORITY**

45 ERICK ROAD
LANCASTER PA 17601

2 9/23/2026 ADDENDUM 2

07/23/2026 100% SUBMISSION

MARK DATE DESCRIPTION

PROJECT NO: 22-03808-004

DATE: 07/23/2026

SCALE: As indicated

DESIGNED BY: AMK

DRAWN BY: AMK

CHECKED BY: JWJ

DRAWING TITLE:

**ELECTRICAL NEW
WORK FLOOR PLANS -
DRIVERS AREA**

SHEET NUMBER:

E-101

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LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	LUMENS	WATTS	CCT	CRI	VOLTAGE
B	4' LINEAR LIGHT FIXTURE, WATERPROOF	LITHONIA LIGHTING	FEX L48 8000LM FGCL WD MVOLT GV10	8000	55	4000	80	120
C	CLASS 1 DIV 2, 4' LINEAR VAPOR PROOF LED FIXTURE; GRAY FINISH	HOLOPHANE LIGHTING	EMXH L48 6000LM FPCL WD MVOLT GZ10 40K 80CRI RMBA DGXD CR	7024	50	5000	80	120
D	DOUBLE ARM MOUNT WITH INTEGRATED LED HEAD; WET LOCATION; 3-PRONG PLUG	ULINE	H-11077	2400	20	5000	80	120
EBU	EMERGENCY LIGHT WITH BATTERY PACK, WATERPROOF	LITHONIA LIGHTING	EXTL SP1100L	1100	2.4	4000	80	120

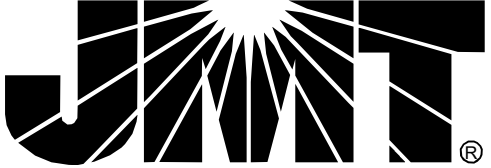
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- REFER TO SHEET E-601 FOR PANELBOARD SCHEDULES.
- COORDINATE ALL POWER OUTAGES WITH SCTA PRIOR TO SHUTTING OFF POWER. LENGTH OF POWER OUTAGES SHALL BE MINIMIZED AND NOT AFFECT FACILITY OPERATIONS.

SHEET KEYNOTES:

- PROVIDE 3#6 AND 1#10 GROUND IN 1" CONDUIT. CONNECT CIRCUIT TO EXISTING 60A/3P CIRCUIT BREAKER IN PANEL PX MADE SPARE DURING REMOVAL EXISTING HOTSY.
- PROVIDE WIRE AND CONDUIT TO CONNECT TO NEAREST EXISTING LIGHTING CIRCUIT.
- PROVIDE TWO-GANG DEVICE BOX WITH TWO ON/OFF TOGGLE SWITCHES FOR CONTROL OF THE LIGHTS. ONE TOGGLE SWITCH SHALL CONTROL THE LIGHTS IN THE PIT AND ONE TOGGLE SWITCH SHALL CONTROL THE GENERAL LIGHTING IN THE WASH BAY.
- PROVIDE 2#12 AND 1#12 GROUND IN 3/4" CONDUIT.
- PROVIDE CLASS 1, DIV 2, EXPLOSION PROOF, 125V, 20A, SIMPLEX RECEPTACLE.
- PROVIDE 3#12 AND 1#12 GROUND IN 3/4" CONDUIT BACK TO EXISTING PANELBOARD FEEDING DEMOLISHED OVERHEAD DOOR MOTOR. CONNECT WIRING TO EXISTING CIRCUIT BREAKER MADE SPARE DURING REMOVAL OF EXISTING OVERHEAD DOOR CIRCUIT.
- PROVIDE RECEPTACLE FOR WORK LIGHT PLUG.
- PROVIDE AND INSTALL WORK LIGHT. REFER TO FIXTURE TYPE D IN LIGHT FIXTURE SCHEDULE FOR BASIS OF DESIGN. COORDINATE MOUNTING LOCATION WITH CORD LENGTH AND RECEPTACLE.

1 ELECTRICAL NEW WORK - ENGINE WASH BAY FLOOR PLAN
SCALE: 3/32" = 1'-0"



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SEAL:



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AUTHORITY**
DRIVER BREAKROOM
AND ENGINE WASH BAY

1700 N. 11TH STREET
READING PA 19604

PREPARED FOR:

**SOUTH CENTRAL
TRANSIT AUTHORITY**

45 ERICK ROAD
LANCASTER PA 17601

2 9/23/2026 ADDENDUM 2

07/23/2026 100% SUBMISSION

MARK DATE DESCRIPTION

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SCALE: As indicated

DESIGNED BY: AMK

DRAWN BY: AMK

CHECKED BY: JWJ

DRAWING TITLE:

**ELECTRICAL NEW
WORK FLOOR PLAN -
ENGINE WASH BAY**

SHEET NUMBER:

E-102

A

1 ELECTRICAL DEMOLITION SINGLE LINE DIAGRAM

2 ELECTRICAL NEW WORK SINGLE LINE DIAGRAM
NOT TO SCALE

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E-201