



CITY MANAGER'S OFFICE
CITY OF NEWARK

220 South Main Street · Newark, Delaware 19711
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BIDDER

BID SECURITY

INVITATION TO BID (ITB) NO. 24-01

COUNCIL CHAMBER SECURITY
AND ACCESSIBILITY RENOVATIONS

NOTICE

Do not disassemble. Return intact with
properly completed forms or bid may be rejected.

CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

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<u>TECHNICAL SPECIFICATIONS</u>	<u>Total Pages</u>
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****All technical specifications have been provided on the project plans.****

ATTACHMENTS

ATTACHMENT 1	PROJECT DRAWINGS, SHEETS 1 – 16
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CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

NOTICE OF LETTING

Sealed bids in response to Invitation to Bid No. 24-01 (Council Chamber Security and Accessibility Renovations) will be received by the Purchasing Division (220 South Main Street; Newark, Delaware 19711) until 2:00 p.m., prevailing time on Tuesday, January 9, 2024, and will be publicly opened and read aloud in the Council Chamber shortly thereafter.

Alternatively, bids may also be emailed in PDF form to the City Purchasing Division at contracts@newark.de.us by the deadline noted above and will be opened after the closing date and time and will be publicly recorded in the Council Chamber shortly thereafter. Please note that only emails up to 25 MB in size can be accepted.

There will be a non-mandatory pre-bid meeting on Thursday December 14, 2023, at 11:00 a.m. at the City of Newark Council Chambers, located at 220 South Main Street, Newark DE 19711.

All questions/requests for information regarding this Invitation to Bid must be submitted via email to contracts@newark.de.us by 5:00 p.m. on Wednesday, January 3, 2024 to allow staff sufficient time to develop answers to questions deemed appropriate. Please submit all questions/requests for information in bulk (e.g., in a Word document attachment to an email) to limit the total number of emails received.

The Invitation to Bid documents may be obtained from the City website at www.newarkde.gov/bids.

CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

GENERAL PROVISIONS

1. BIDS

Each bid shall be submitted on the proposal form included herein. The proposal and all other required documents must be submitted in a sealed envelope clearly identified with the bidder's name and marked, "City of Newark – Council Chamber Security and Accessibility Renovations". **Bid Documents must be received in the Purchasing Office prior to 2:00 p.m. prevailing time, Tuesday, January 9, 2024.** Each bid so submitted shall constitute an irrevocable offer for a period of thirty (30) calendar days following the bid opening date.

Alternatively, bids may also be emailed in PDF form to the City Purchasing Division at contracts@newark.de.us by the deadline noted above and will be opened after the closing date and time and will be publicly recorded in the Council Chamber shortly thereafter. Please note that only emails up to 25 MB in size can be accepted—if file sizes are larger than 25 MB, attachments should be broken into multiple emails.

There will be a non-mandatory pre-bid meeting on Thursday December 14, 2023, at 11:00 a.m. at the City of Newark Council Chambers, located at 220 South Main Street, Newark DE 19711.

2. DEFINITIONS

- a. *Agreement*: The written instrument which is evidence of the agreement between Owner and Contractor covering the Work.
- b. *Contract Documents*: Those items so designated in the Agreement. Only printed or hard copies of the items listed in the Agreement are Contract Documents. Approved Shop Drawings, other Contractor submittals, and the reports and drawings of subsurface and physical conditions are not Contract Documents.
- c. *Contractor*: The individual or entity with whom the Owner has entered into the Agreement.
- d. *Engineer*: The Owner's consultant engineer. The Engineer for this project is JMT, Inc.
- e. *Owner*: The individual or entity with whom Contractor has entered into the Agreement and for whom the Work is to be performed. The Owner for this project is

the City of Newark.

- f. *Shop Drawings*: All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work.
- g. *Site*: Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by Owner which are designated for the use of Contractor.
- h. *Subcontractor*: An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work at the Site.
- i. *Work*: The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction, as required by the Contract Documents.

3. **BID SECURITY**

Each bid must be accompanied by a certified check, cashier's check, or bid bond in the amount of ten percent (10%) of the proposed bid price, payable to the City of Newark. Failure to provide the required bid security may be grounds for rejection of the bid. If a bid bond is submitted, the attached "Bond to Accompany Proposal" form must be completed and issued by a surety licensed to operate in the State of Delaware.

If the successful bidder fails or refuses to execute and deliver the contract within twenty (20) calendar days after receiving notice of the award of the contract, the successful bidder shall forfeit to the City for such failure or refusal the security deposited with the bid. Any certified check or cashier's check submitted as security shall be returned to all unsuccessful bidders thirty (30) calendar days after the bid opening date.

4. **CONTRACT SURETY BOND**

The successful bidder shall provide the City with a Performance Bond and Payment Bond in the full amount of the contract guaranteeing faithful performance of the contract. Such bonds shall be provided to the City with the executed contract within twenty (20) calendar days after receiving notice of award of the contract. Upon receipt of the contract surety bond, the City will return any certified check or cashier's check submitted as bid security by the successful bidder.

If a warranty is included as part of this Invitation to Bid's scope of work, once the project is substantially complete the surety bond shall be converted into a warranty bond for the term

of the warranty. Once substantial completion of the project is reached and approved, City staff shall release any remaining retainage and issue a close out letter to the vendor stating the start date of the warranty period. A copy of the above noted warranty bond shall be provided to the City Purchasing Division no later than thirty (30) days from the receipt of the City's close out letter.

5. TAXES

The price(s) quoted shall not include federal or state taxes. If applicable, the successful bidder shall provide the City with three (3) copies of the required tax exemption forms to accompany the bidder's invoice.

6. AWARDS

The City Manager or designee will review each of the bids submitted and make a recommendation to the City Council on the disposition of the bids. The City Council reserves the right to accept or reject any or all bids or parts of bids as they may determine and to waive any irregularities or defects where the best interest of the City would be served.

7. BID PRICE

For material purchases, the prices shall include all transportation, delivery preparation, and installation charges for the equipment specified. The bid prices shall be F.O.C. Destination and shall not include federal or state taxes. If applicable, the successful bidder/vendor must furnish the City with the necessary tax exception forms in triplicate upon submission of his invoice.

Any prices quoted are those for which the material will be furnished F.O.B. Destination and include all charges that may be imposed during the period of the contract. Unless otherwise specified and agreed upon by both parties in writing, all material shall be designated F.O.B. Destination and have freight included in quotations.

8. UNIT PRICES

In the event of a conflict or error in extension from unit price to total amount, the unit prices shall prevail and shall be considered the correct bid figures. Bidders are cautioned to thoroughly review their bid figures for errors prior to submitting their proposal. The unit price shall include all transportation, delivery, installation and all charges for the goods and services specified in this Invitation to Bid or otherwise by City staff.

9. **EQUALS**

Where a specific product is specified by catalog or model number, the acceptability of any other "or equal" product shall be subject to the sole judgment of the City of Newark.

10. **INQUIRIES/REQUESTS FOR INFORMATION & ADDENDA**

All inquiries/requests for information regarding this Invitation to Bid must be submitted via email to contracts@newark.de.us by 5:00p.m. on Wednesday January 4, 2023. These inquiries will be passed along to relevant staff for their review. Please submit all questions/requests for information in bulk (e.g., in a Word document attachment to an email) to limit the total number of emails received. Any answers deemed necessary will be provided via addendum prior to the bid opening date.

Any changes to the Invitation to Bid documents shall be made by written addendum no later than four (4) calendar days prior to the bid opening date, which may be issued with extensions to the bid submittal date (if necessary) to allow adequate time for review and response. Bidders shall bear the entire responsibility for being sure they have received all such addenda. **The bidder is responsible for submitting a signed letter listing the addenda received for this Invitation to Bid.** All addenda will be posted on the City website at www.newarkde.gov/bids. After the bids have been received, no claim that the bidder did not have complete information will be considered. No verbal agreement or conversation with any officer, agent or employee of the City, either before or after the execution of this contract, shall affect or modify any of the terms or conditions outlined herein.

11. **TIME OF COMPLETION AND LIQUIDATED DAMAGES**

Contractor shall commence work on a date to be specified by the City in a written "Notice to Proceed" and to fully complete all work under this contract on or before the noted completion date. Liquidated damages of \$200.00 per day may be assessed to the Contractor by the City for each day the contract is extended beyond the completion date. Such damages shall be payable to the City immediately upon notice of a breach of contract completion timelines. Liquidated damages shall not be considered a penalty, but rather a reasonable estimate of the damages that would be suffered by the City in the event of a breach. The City and the contractor shall acknowledge that the actual damages resulting from a breach may be difficult to ascertain and that this provision represents a reasonable estimation of such damages. This provision shall not limit the City's right to pursue any other remedies available under law or equity.

12. LIABILITY INSURANCE

- a. The Contractor shall at all times maintain and keep in force such insurance as will protect him from claims under Worker's Compensation Acts, and also such insurance as will protect him and the owner from any such claims for damages for personal injuries, including death, which may arise from operations under this contract, whether such operations be by the Contractor or by any Subcontractor or anyone directly or indirectly employed by any of them.
- b. The Contractor shall be required to provide Workers' Compensation (WC)/Employer's Liability (EL) coverage with limits of insurance not less than:

\$1,000,000 Per Accident
\$1,000,000 Per Illness, Employee
\$1,000,000 Per Illness, Aggregate

The Contractor shall be required to provide Contractors Professional Liability coverage with limits of insurance not less than (requests for waivers of Contractors Professional Liability coverage will be considered by the City on a case-by-case basis):

\$1,000,000 Per Claim
\$1,000,000 Per Aggregate

The Contractor shall be required to provide Umbrella/Excess Liability coverage with limits of insurance not less than:

\$3,000,000 Each Occurrence
\$3,000,000 Aggregate

The Contractor shall be required to provide Commercial General Liability (CGL) coverage with limits of insurance not less than:

\$1,000,000 Each Occurrence Limit
\$1,000,000 Personal & Advertising Injury Limit
\$2,000,000 Annual Aggregate Limit
\$2,000,000 Products-Completed Operations Limit
\$1,000,000 Business Auto Liability Limit (Owned, Hired, & Non-Owned Autos)

The Contractor, The City of Newark (Owner) and all other parties required of the Contractor shall be included as insured on the CGL, using Additional Insured Endorsements providing coverage as broad as the coverage provided for the named insured Subcontractor.

Subcontractors approved in association with the hiring of a Contractor shall be required to provide Commercial General Liability (CGL) coverage with limits of insurance in equal amount to those required of the Contractor.

- c. A copy of the Certificate of Insurance must accompany each bid. The Contractor shall ensure that all insurances required remain valid for the entire term of the contract, inclusive of any term extension(s) and retroactive if claim is made afterward. The Prime Contractor's attention should be directed to other sections of the contract documents in the event additional insurance is required based on the scope of work.

13. APPROVAL

The contractor shall receive approval in writing from the City before ordering any material for work to be done under this contract.

14. STANDARDS AND WARRANTY OF TITLE

No material, supplies, or equipment to be installed as part of the work shall be purchased subject to any chattel mortgage or under a conditional sale or other agreement by which any interest therein or in any part thereof is retained by the seller or supplier. The contractor shall warrant good title to all material, supplies, and equipment installed or incorporated in the work and upon completion of all work, shall deliver the same together by him to the City free from any claims, liens or charges. Neither the contractor nor any person, firm or corporation furnishing any material or labor covered by this contract shall have any right to a lien upon any improvement or appurtenance thereon. Nothing contained in this paragraph, however, shall defeat or impair the right of persons furnishing materials or labor to recover under any bond given by the contractor for their protection or any right under any law permitting such persons to look to funds due the contractor in the hands of the City. The provisions of this paragraph shall be inserted in all the subcontracts and material contracts and notice of its provisions shall be given to all persons furnishing materials for the work when no formal contract is entered into for such materials.

All equipment shall be unused in all component parts and will be the latest current production including all accessories. The specifications will be construed as the minimum required. When the manufacturer's standards exceed these, the standard units will be furnished. All material will be free of defects. Manufacturer's standard warranties shall apply.

15. GUARANTEE

The contractor hereby guarantees all work for a period of two years after the date of completion and final acceptance thereof by the City as follows:

- a. Against all faulty or imperfect materials and against all imperfect, careless, and/or unskilled workmanship.
- b. The contractor agrees to replace with proper workmanship and materials, and to re-execute, correct or repair without cost to the City, any work which may be found to be improper or imperfect and/or which fails to perform as specified.
- c. The guarantee obligations assumed by the contractor under these contract documents shall not be held or taken to be in any way impaired because of the specifications, indication or approval by or on behalf of the City of any articles, materials, means, combination of things used or to be used in the construction, performance and completion of the work or any part thereof.
- d. No use or acceptance by the City of the work or any part thereof, nor any failure to use the same nor any repairs, adjustments, replacements, or corrections made by the City due to the contractor's failure to comply with any of his obligations under the contract documents, shall impair in any way the guarantee obligations assumed by the contractor under these contract documents.

16. EEO AND LICENSING

The contractor shall be licensed to do business in the State of Delaware and shall be registered as a contractor in the City of Newark and possess all other required licenses. The contractor shall also be a fair and equal opportunity employer.

17. PREFERENCE FOR DELAWARE LABOR

According to State law, any person, company or corporation who violates the requirements of Title 29, Section 6962, of the Delaware Code regarding preference for Delaware Labor shall pay a penalty to the State Secretary of Finance equal to the amount of compensation paid to any person in violation of this Section. This regulation is waived if it is in conflict with Federal requirements.

18. VENDOR REQUIREMENTS FOR FEDERALLY FUNDED PROJECTS

This ITB is funded through a federal grant. As such, the awarded vendor and subcontractors must be registered at www.sam.gov before contract agreements are signed. The awarded vendor and subcontractors must also show proof of SAM registration and good standing through the SAM portal before contract agreements are signed. SAM (System for Award Management) is the primary supplier database for the U.S. Federal Government.

The City of Newark shall not conduct business with vendors that are debarred or otherwise flagged/blacklisted if the project is funded using federal money. If a vendor or subcontractors are determined to be debarred at any point during the term of a contract, this will be seen as grounds for termination of the contract, and potentially grounds for termination from other contracts held with the City, if any.

19. NONCOLLUSION

The bidder shall not, either directly or indirectly, enter into any agreement, participate in any collusion, or otherwise take any action in restraint of free competitive bidding in connection with this contract.

20. EXCEPTIONS & OMISSIONS

Any and all exceptions which are taken to the specifications and terms and conditions outlined herein shall be noted in the space provided on the proposal form. The listing of any exception may be grounds for rejection of a bid.

Further, the bidder recognizes that the City of Newark is not in the business of preparing specifications, and any omissions in this ITB/RFP must be strictly addressed by the firm with the submittal of its proposal.

21. INCREASE AND/OR REDUCTION OF ESTIMATED QUANTITIES

- a. The contractor's attention is directed to the fact that the quantities indicated in this contract are approximate and may be increased or decreased by the engineer. An increase or a reduction in these quantities will in no way alter the unit prices bid by or paid to the contractor.
- b. The City shall also have the right to delete any portion of this contract or to update specific quantities as needed. Regardless of any changes, deletions, or additions

authorized by the City, all work done or purchases made under this contract shall be based on the unit prices stipulated by the contractor in his proposal.

22. PAYMENT

No invoice will be processed for payment until the goods and/or services have been delivered and verification is made that the specifications under this contract have been met. Progress payments, when requested, will be evaluated and approved for payment based on work completed to date. If applicable, upon written request from the Contractor, payment for material stored on site may be made at 50% of the material's invoice price; full payment will be made after the material is installed. Payment for all services complete or goods received will be made within thirty (30) days of final acceptance by the City.

The City of Newark will not disperse payment to any vendor via paper check. As such, all bidders acknowledge that electronic fund transfer (EFT) payments are acceptable. The successful bidder will be required to submit EFT payment information to the City at the time of contract execution.

23. BASIS OF PAYMENT

Payment for these items shall be included in the unit prices for each item as described in the Proposal. All other items, methods, and materials necessary to complete the work as described above shall be incidental to the bid item the work is being completed under.

24. RETAINAGE

The City will retain 5% of the progress payments until such time as the project is complete and accepted by the City.

25. RELEASE OF LIENS

The Contractor is required to provide documentation stating that all liens filed against the Contractor have been paid before the final 5% retainage is released to the Contractor.

26. ADVERTISEMENT

It is further agreed that any bidder/contractor submitting bids will not use the name of the City in any advertisement without first obtaining the written consent of the City Manager or

their designee. All such requests should be submitted in writing to contracts@newark.de.us.

27. CONTRACTOR'S UNDERSTANDING

It is understood and agreed that the contractor has, by careful examination, satisfied himself as to the nature and location of the work, the conformation of the ground; the character, quality and quantity of the material which will be required; the character of equipment needed preliminary to and during the prosecution of the work; the general and local conditions; all permit restrictions and conditions; and all other matters which can in any way affect the work under this contract. No verbal agreement or conversation with any officer, agent, or employee of the City of Newark, either before or after the execution of this contract, shall affect or modify any of the terms or obligations herein contained.

28. INTENT OF SPECIFICATIONS

It shall be the Contractor's responsibility to furnish the goods and services specifically indicated in the scope of work and specifications and such other as may be required to meet the intent of the specifications, drawings, or as may be necessary to provide the operation intended by the City.

29. LIST OF SUBCONTRACTORS' CERTIFICATION

- a. Each bidder shall execute and submit with his bid, on the form provided herein, a list of subcontractors, including complete names and addresses, whose services the bidder intends to use in performing all work under the contract. Bids submitted without such a list, or with a list not completely or properly executed, are subject to rejection.
- b. Each bidder is required to notify all subcontractors that they are obligated to comply with the provisions of Federal and State law as they pertain to this project, and that they must submit evidence of such compliance upon notice or request. The bidder shall certify his compliance with this requirement on the list of subcontractors.
- c. After the contract has been awarded, the successful bidder shall not substitute another subcontractor for any subcontractor whose name was set forth on the list of subcontractors which accompanied his bid, without the written consent of the City.

30. INDEMNIFICATION

The contractor shall solely be responsible and liable for the accuracy and completeness of all work performed and shall agree to indemnify, defend and hold harmless the City of Newark, its officers, agents and employees, from and against any and all claims, actions, suits and proceedings arising out of, based upon or caused by negligent acts, omissions or errors of or the infringement of any copyright of patent, by the contractor, its officers, agents, employees or subcontractors, in the performance of the contracted agreement.

31. TERMINATION OF AGREEMENT

This agreement may be terminated by the City upon thirty (30) days written notice if the contractor fails to perform satisfactorily in accordance with the terms and conditions of the contract. In the event this agreement is terminated, the contractor shall be paid for services satisfactorily rendered up to the termination date.

32. FAMILIARITY WITH PROPOSED WORK

A complete understanding of the conditions as they exist is required by careful personal examination of the work at the site. Each contractor bidding must completely satisfy himself as to the exact nature and existing conditions of the work area. The contractor also shall carefully examine the plans, specifications, and the contract forms for the work contemplated. Failure to do so will not relieve the successful contractor of his obligation to carry out the provisions of the contract.

The contractor shall not, at any time after the execution of the contract, set up any claims whatsoever based upon insufficient data or incorrectly assumed conditions, nor shall claim any misunderstanding in regard to the nature, conditions or character of the work to be done under this contract, and shall assume all risks resulting from any change in the conditions which may occur during the progress of the work.

The Contractor is solely responsible to identify, obtain, and pay for all required permits, licenses, and approvals required by any and all State, local, or Federal authorities or governmental agencies to complete the Work.

33. FINAL INSPECTION

All delivered goods and services will be subject to inspection by the City of Newark, Delaware. If in any way an item fails to meet the terms of the contract, it may be rejected or liquidated damage charges made. The decision of the City will be final, and any rejected items or materials will have to be replaced at the expense of the vendor.

34. OWNERSHIP OF MATERIAL

All documents prepared and submitted pursuant to this RFP or ITB shall be property of the City upon submittal and will be subject to staff and public review and discussion in association with our public bidding and formal proposal process. Any information or documents deemed proprietary shall be so marked at time of submittal and limited to detail where the disclosure of contents could be prejudicial to competing offerors during the process of negotiation, and any commercial or financial information of a privileged or confidential nature.

35. REGULATIONS AND EXCEPTIONS

The application of lead paint as defined in Title 16, Chapter 30M of State Code and Chapter 7 of City Code as part of this contract is prohibited. The contractor will be subject to fines as outlined in State and City Code if it is determined that lead paint was applied in violation of State and City code.

Safety Data Sheet information for all paints applied to internal or external structures shall be provided to the City for review and approval prior to application. The contractor will be required to remove and remediate any lead paint to the satisfaction of the City, at no cost to the City. Prior to commencing removal and remediation efforts, the contractor shall provide a written remedial action plan which includes health safety protection requirements for both employees and the public for review and approval by the City and/or DNREC/DHSS. Any and all sample results that are generated as a result of improper application of lead paint shall be provided to the City within 5 working days of being received by the contractor. The contractor will also be required to replace all paint removed with non-lead paint to the satisfaction of the City, and at no cost to the City.

Failure to adequately remove, remediate, and replace lead paint applied in violation of State and City Code as outlined herein will be considered a breach of contract.

36. FORCE MAJEURE OCCURRENCE

Upon the occurrence of a force majeure event, the City of Newark shall immediately notify the awarded vendor. In this instance, the City shall be excused from any further financial or contractual obligations for as long as such circumstances prevail. As used in this document, a "force majeure occurrence" means acts of God; acts of the public enemy; acts of the State and any other governmental entity in its sovereign or contractual capacity; fires; floods; epidemics or pandemics; quarantine restrictions; strikes or other labor disputes; freight embargoes; unusually severe weather; or other unusual event outside of the reasonable control of a party hereto that prevents a party to this

Agreement from performing its contractual obligations.

37. SEVERABILITY

If any provision of this contract (general, special, technical, or other) shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court finds that any provision of this contract is invalid or unenforceable, but that by limiting such provision it would become valid and enforceable, then such provision shall be deemed to be written, construed, and enforced as so limited.

38. BIDDER'S QUALIFICATIONS

No contract will be awarded to any bidder who in the judgment of the City is not a responsible or fit bidder, or is not prepared with all the necessary experience, capital, organization, and equipment to conduct and complete the work for which the bidder proposes on the proposal form.

39. SAFETY REQUIREMENTS

The Contractor shall comply with the requirements and standards of the Occupational Safety and Health Act (OSHA) and all other state and local laws, ordinances, and codes governing all work associated with the executed contract.

40. RESTORATION OF DISTURBED AREAS AND CLEAN UP

Upon completion of the work, all related work, such as lawns, curbs, sidewalks, fences, shrubbery, and driveways that have been disturbed shall be restored to their original condition and in accordance with City of Newark Standards and Specifications. The area shall be cleared of all tools, equipment and refuse resulting from the project. The contractor shall, at the end of each day, leave the areas in which he has worked, free of debris and safely secure his material and equipment.

41. DEBRIS COLLECTION AND DISPOSAL

The Contractor is responsible for collection, removal, transport, and lawful disposal of construction debris and or materials.

42. INSPECTION OF MATERIAL AND WORK

- a. Workmanship shall be of good quality and all work and material shall be at all times subject to the inspection of the City of Newark or their duly authorized representatives. The Contractor shall provide reasonable and necessary facilities for such inspection. If required by the City of Newark, the contractor shall take down or uncover portions of the finished work.
- b. The Contractor agrees that in case any of the material or work, or both, shall be rejected as defective or unsuitable by the city, material and the work shall be done again immediately to the satisfaction and approval of the city at the cost and expense of the Contractor.
- c. Any omission or failure on the part of the City of Newark or inspectors to disapprove or reject any defective work or materials shall not be construed to be an acceptance of any defective work or material.
- d. In case the City should not consider the defect of sufficient importance to require the contractor to replace any imperfect work or materials, the City shall have the power to make an equitable deduction from the stipulated price.
- e. Neither the inspection nor supervision of the work, nor the presence or absence of an inspector shall relieve the contractor of any of his obligations under the contract or of making his work conform to the specifications.

43. REFERENCES

Bidders must provide three (3) business references consisting of current or previous (within the last five (5) calendar years) customers where similar services are/were provided.

44. ITEMS TO BE EXECUTED AND SUBMITTED WITH BID

Bidders are notified that the proposal, insurance documentation, and bid security must be executed and completed in full and submitted with the bid at the time of bidding, or bid may be subject to rejection.

The bidder shall submit the following with the bid:

- A. Proposal
- B. Executed Bid Bond or Cashier's Check
- C. Acknowledgement of Addendum(a)

- D. www.sam.gov information
- E. Exceptions or qualifications to the ITB documents
- F. List of subcontractors
- G. References
- H. Non-collusion statement

45. ITEMS TO BE SUBMITTED WITH SIGNED CONTRACT

- A. Construction Schedule
- B. Performance/surety bond
- C. Insurance documentation showing required coverages and the City of Newark as the certificate holder

CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

SCOPE OF WORK

1. SCOPE OF WORK

The Council Chamber Security and Accessibility Renovations project includes, but is not limited to, the improvements and renovations shown on the attached drawings. These improvements and renovations include removal of existing materials within Council Chambers, and installation of a new handicapped accessible viewing area, and emergency exit door.

2. LOCATION

The project is located at 220 South Main Street, Newark DE 19711 within the extents of the City of Newark's municipal limits.

3. PERMITS, CERTIFICATIONS, LAWS AND ORDINANCES

The Contractor shall perform the work in accordance with all local, state and federal laws and ordinances.

The Contractor is required to have or obtain a City Contractor's License and State of Delaware business license prior to starting the work. The Contractor is required to obtain any permits required for completion of the work. The fees for City of Newark permits, if applicable, will be waived.

4. COORDINATION

- A. Contractor shall coordinate construction operations with those of other contractors and entities to ensure efficient and orderly installation of each part of the Work. Contractor shall coordinate its operations with operations that depend on each other for proper installation, connection, and operation.

- B. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
- C. Coordinate removal of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
- D. Coordinate with the City to detour pedestrian access to the project site.

5. SUBMITTALS

The Contractor shall submit an **electronic copy** of each submittal for review and approval by the Owner. Provide submittals in accordance with specifications. For scheduling purposes, the Contractor shall allow for a ten (10) business day review time by the Owner. Comments and Approvals will be returned in a digital format. The Contractor shall provide, at minimum, all submittals identified in the specifications. Each shop drawing shall contain only one work item and shall be consecutively numbered before submission. Additional submittals may be requested at the discretion of the Owner.

6. RESTORATION

The Contractor is responsible to restore all disturbed areas to original or better condition and remove all debris, residuals, trash, and excess materials from the sites.

7. SECURITY AND SITE ACCESS

The Contractor is responsible for security of his equipment and materials related to the work. The Contractor is responsible to maintain the work site in a safe and orderly manner.

Contractor is required to maintain a secure perimeter around the work area. Pedestrian walkways shall be always open except where indicated on the project plans.

- A. Walkways and Entrances: Keep walkways and entrances outside of designated laydown and work area clear and accessible at all times. Do not use these areas for parking or storage of materials.
- B. Schedule deliveries to minimize disruption to walkways and entrances not within the limits of disturbance shown on the project plans.
- C. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

Prior to mobilization, the Contractor shall take a pre-construction video or photographs of any such areas to be used for access, staging, or work during the project and submit to the Owner.

Video or photographs shall be used to document any existing damage or deteriorated conditions.

It shall be the responsibility of the contractor to obtain permission from any neighboring property owner if said contractor finds it necessary to enter upon or use in any manner the property of any neighbor for the expedition of the contractor's work.

8. WORK RESTRICTIONS

- A. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work at the site to normal business working hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, unless otherwise indicated or approved by City of Newark.
- C. Weekend Hours: Weekend hours must be approved by the City. Contractor must submit request to work on weekends at least 5 business days in advance of the projected work date.
- D. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated:
 - 1. Notify Owner not less than five days in advance of proposed utility interruptions.
 - 2. Obtain Owner's written permission before proceeding with utility interruptions.
- E. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption with Owner.
 - 1. Notify Owner not less than two days in advance of proposed disruptive operations.
 - 2. Obtain Owner's written permission before proceeding with disruptive operations.
- F. Controlled Substances: Use of tobacco products and other controlled substances on Project sites is not permitted. See Office of Management and Budget – Drug Testing Requirements for further information regarding controlled substances.
- G. Contractor shall have contaminant spill response equipment readily available on-site during construction activity.

9. SITE CONSTRUCTION AND EXISTING UTILITIES

- A. The Contractor is responsible to account for and consider existing site conditions and existing utilities. Prior to starting any work, the Contractor shall contact Miss Utility of Delmarva at 1-800-282-8555 for a utility mark out. The Contractor is responsible for locating and protecting existing utilities for the duration of the work.
- B. The failure to show on the contract drawings any existing utilities shall not relieve the contractor of his responsibility in determining the locations of utilities.
- C. Any damage done to existing utility lines, services, poles and structures shall be repaired or replaced by the Contractor at his own expense. The Contractor shall notify all possible owners of utilities in the areas where work is to be done and the schedule and extent of such work.

10. EXAMINATION OF SITE, DRAWINGS, ETC.

Before submitting proposals, bidders shall inform themselves fully of the nature of the work by a personal examination of the site and the drawings and by such other means as they may prefer or consider necessary, as to matters, conditions and considerations bearing on or in any way affecting the preparation of their proposals and the contract. They shall not, at any time after submission of the proposal, dispute the accuracy of such drawings or the specifications and the general conditions nor assert that there is any misunderstanding in regard to the location, extent or nature of the work to be performed.

Existing drawings and information provided in these contract documents and appendices form a part of the Bid Specification to the extent referenced and provide detailed information about the project. The documentation is provided for informational purposes only and for the sole use of the Contractor. The City makes no claims as to the correctness or accuracy of the data provided therein. The Contractor shall review and determine for themselves the correctness and accuracy of the information before incorporating and relying on the prior work as part of their work product to the City.

11. STARTING DATE, SEQUENCE OF CONSTRUCTION, & COMPLETION DEADLINE

The starting date of this contract will be as specified by the City in a written "Notice to Proceed." A preconstruction meeting shall be scheduled to finalize the sequence of construction. The final decision as to sequence of construction shall be that of the Owner.

The Council Chambers shall be closed from March 26, 2024 to April 17, 2024. During this time, the Contractor shall have full access to the entire Council Chamber. After April 17, 2024 the Contractor will have access to the Council Chambers, however the Chambers must be in a working order to facilitate City Council and other public meetings after hours (typically 7:00

p.m.). It will be the Contractor's responsibility to ensure that a minimum their materials, tools, etc. are removed from the council chambers, and that the Council Dias is installed (either permanent or temporary), and that all lights, sound equipment, etc. are in working order. No additional compensation will be given for the Contractor to ensure that Council Chambers are able to be used for City Council and other public meetings.

12. SUPERVISION OF WORK AND COORDINATION

The Contractor shall supervise the work and shall secure full cooperation of all subcontractors, if any, to complete the work with a minimum interference from the operating personnel of the Owner.

13. COORDINATION WITH THE OWNER

The Contractor shall coordinate all activities with the Owner. The Contractor shall provide the City with reasonable time to respond to requests for information and for coordination.

14. INSPECTION OF MATERIAL AND WORK

- A. Workmanship shall be of good quality and all work and material shall be at all times subject to the inspection of the City of Newark or their duly authorized representatives. The contractor shall provide reasonable and necessary facilities for such inspection. If required by the City, the contractor shall take down or uncover portions of the finished work.
- B. The contractor agrees that in the event that any of the material or work, or both, shall be rejected as defective or unsuitable by the City, the material shall be replaced and the work shall be done again immediately to the satisfaction and approval of the City at the cost and expense of the Contractor.
- C. Any omission or failure on the part of the City of Newark or its inspectors to disapprove or reject any defective work or materials shall not be construed to be acceptance of any defective work or material.
- D. Contractor and City Inspector must agree on additional work required outside of the contract documents. A daily time and material log for all additional work shall be supplied by the contractor and signed by the City Inspector.

15. PROTECTION TO PUBLIC AND PROPERTY

- A. The contractor shall insure protective measures to the general public and to occupants of property along and adjacent to the work area.
- B. The contractor is responsible for any and all damage or injury of any kind which directly or

indirectly may be done to any property or sustained by any persons during the execution of the work.

- C. If any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect or misconduct in the execution of the work, the contractor shall restore at his own expense such property to a condition similar or equal to that existing before such damage or injury was done by repairing, rebuilding or otherwise restoring as may be directed, or he shall make good such damage or injury in an acceptable manner.

16. SAFETY PRECAUTIONS

- A. The Contractor shall execute work under this contract with the utmost concern for the safety of the general public. All areas worked upon and subject to travel by the public shall be identified with the proper warning indicators and signs during the working period. Upon completion of the contract or when such areas are reopened to public travel, they shall be rendered in a safe condition using either temporary or permanent repair material as the case may be. No private driveway shall be blocked or closed without the property owner being notified and obtaining their agreement.
- B. Streets, roads, and driveways used by the contractor for access to and from the work site shall be protected from damage in excess of that caused by the normal traffic of vehicles used for or in connection with construction work. Any such damage done shall be repaired immediately and left in good condition at the end of the construction period and shall be repaired at the contractor's expense.

17. RIGHT-OF-WAY

All operations shall be confined to the assigned work area. The City will provide no right-of-way over other properties. The contractor shall take every precaution to minimize the inconvenience to the owners or tenants of adjacent property. Public roads shall not be obstructed in such a way as to cut off traffic. The contractor shall, at his own expense, repair any damage or injury to either public or private property during the progress of the work.

18. TRAFFIC CONTROL AND ROAD SIGNS

- A. The contractor shall be responsible for traffic control for the duration of the project, as needed, and shall coordinate traffic control plans and obtain necessary permits from the Owner for work on city-owned roads. The contractor shall be responsible for removal and re-installation of all signs in the work area. Signs necessary for the safe movement of traffic shall be maintained in operation during construction. Any other signs shall be properly stored by the Contractor, who shall be responsible for them. All signage shall comply with

the current Manual on Uniform Traffic Control Devices (MUTCD).

- B. The Contractor shall provide notice to the City seven (7) calendar days in advance of any planned road or entrance closure. All closures shall be at the discretion of the City.

19. JOB SITE MAINTENANCE, RESTORATION AND CLEANUP

The contractor is responsible to restore all disturbed areas to original or better condition and remove all debris, residuals, trash, and excess materials from the site. The contractor is required to keep the work area clean during construction and remove trash as it accumulates. Roads shall be kept clean and free of mud, debris, and dirt. At the direction of the City Inspector, the contractor is responsible for the cost of street sweeping and maintenance required for upkeep of clean road surfaces.

20. DRAWINGS

Project Drawings are included as Attachment 1.

21. AVAILABLE BACKGROUND INFORMATION

Maps, photographs, closed circuit television (CCTV) inspection videos, and other documents provided herein form a part of this Bid Specification to the extent referenced and provide detailed information about the Project Location, and existing conditions of the site(s). The documentation is provided for informational purposes only and for the sole use of the Contractor. The City makes no claims as to the correctness or accuracy of the data provided therein. The Contractor shall review and determine for themselves the correctness and accuracy of the information before incorporating and relying on the prior work as part of their work product to the City.

CITY OF NEWARK

Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

PROPOSAL

To: City of Newark Mayor and City Council

From: _____

We, the undersigned as a lawfully authorized agent for the bidder named herein has carefully examined the Bid Documents to be known as Invitation to Bid No. 24-01 and binds themselves on award to the City of Newark by the Mayor and City Council of Newark, Delaware to execute in accordance with such award, a contract of which this Proposal and said General Provision, Specifications, and any Addenda shall be a part, and to furnish the goods as specified F.O.B. destination (Newark, Delaware) in a manner that is in complete accordance with said General Provisions and Specifications at the following named unit price on or before the delivery period stated below:

1. BID ITEMS

Bidders must provide prices on the Proposal form including all adjustment bid items. The Owner reserves the right to delete from the Contract one or more items listed and the right to add or subtract from the quantity of each item. The total price to be paid will be adjusted in accordance with the Contractor's unit prices as required above. There will be no extra compensation or increase in unit prices in the Proposal if such additions and/or deletions are made to quantities.

2. BASIS OF PAYMENT

Payment for these items shall be included in the unit prices for each item as described in the Proposal. All other items, methods, and materials necessary to complete the work described in each pay item shall be incidental to the bid item the work is being completed under.

2. METHOD OF MEASUREMENT AND INCIDENTALS DETERMINATION

The measurement of payment shall be for the removal, disposal, and installation of the materials listed in the Proposal in accordance with the units indicated below. All work

required to complete the work outlined in the proposal shall be incidental to the unit cost provided for the item the work is being conducted under.

- A. Bid Item 1 – Demolition: The lump sum cost for the removal, transporting and disposal of all items shown on the plans. This bid item includes all costs for the scope of work items shown on the plans and any and all incidental costs required to complete the project per the contract documents.
- B. Bid Item 2 – Architectural Improvements: The lump sum cost for the architectural improvements shown on the project plans. This bid item includes all costs for the scope of work items shown on the plans and any and all incidental costs required to complete the project per the contract documents.
- C. Bid Item 3 – Structural Improvements: The lump sum cost for the structural improvements shown on the project plans. This bid item includes all costs for the scope of work items shown on the plans and any and all incidental costs required to complete the project per the contract documents.
- D. Bid Item 4 – Electrical Improvements: The lump sum cost for the electrical improvements shown on the project plans. This bid item includes all costs for the scope of work items shown on the plans and any and all incidental costs required to complete the project per the contract documents.

Bid Item	Item Description	Units	Quantity	Unit Price	Total
1	Demolition	LS	1		
2	Architectural Improvements	LS	1		
3	Structural Improvements	LS	1		
4	Electrical Improvements	LS	1		
Total Bid:					

(see next page)

CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

PROPOSAL (CONT.)

We acknowledge that we **are/are not (circle one)** registered on www.sam.gov. We also acknowledge that there are no exceptions noted against us as outlined on www.sam.gov.

Our unique entity identifier (UEI), as outlined on www.sam.gov is (write N/A if none): _____

We acknowledge receipt of addendum(a) numbers: _____

We acknowledge project is to be completed within 120 days from the Notice to Proceed (initial) _____

Exceptions: _____

Contact Information for Notice of Award/Rejection (If different from below): _____

BIDDER: _____

DATE: _____

SUBMITTED BY:

Legally Authorized Representative Signature

Print Name

Title

Address Line 1

Email Address

Address Line 2

Telephone Number

City, State, ZIP Code

CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

BOND TO ACCOMPANY PROPOSAL

(Not Required if Certified or Cashier's Check is Used)

KNOW ALL MEN BY THESE PRESENTS THAT _____
of _____ in the County of _____
and State of _____ Principal, and _____
of _____ as surety, legally authorized to do business in the State of
Delaware, are held and firmly bound unto the City of Newark in the sum of _____
Dollars, to be paid to said City of Newark for use and benefit of the Mayor and City Council of Newark, for
which payment well and truly to be made, we do bind ourselves, our and each of our heirs, executors,
administrators, and successors, jointly and separately, for and in the whole, firmly by these presents.
Sealed with our seals, dated the day of _____ in the year of our Lord Two Thousand Twenty-Four (2024).

NOW THE CONDITIONS OF THIS OBLIGATION ARE SUCH, that if the above noted bound principal
_____ who has submitted to said City of Newark, a certain
proposal to enter into a certain contract from Invitation to Bid No. 24-01, Council Chamber Security and
Accessibility Renovations, shall be awarded said Contract, and if said _____
shall well and truly enter into and execute said contract and furnish therewith such surety bond or bonds
as may be required by the terms of said contract and approved by said City of Newark, said notice of
award thereof in accordance with the terms of said proposal, then this obligation to be void, otherwise
shall remain in full force and virtue.

(See next page)

CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

BOND TO ACCOMPANY PROPOSAL (CONT.)

SIGNED AND SEALED IN THE PRESENCE OF:

Witness (Print)

Witness (Signature)

SIGNED (#1): _____ (SEAL)
(Signature)

BY (#1): _____ (SEAL)
(Print)

SIGNED (#2): _____ (SEAL)
(Signature)

BY (#2): _____ (SEAL)
(Print)

CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

NON-COLLUSION STATEMENT

Date: _____

City of Newark, Delaware

This is to certify that the undersigned bidder _____

Has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted to the City of Newark, Delaware on the _____ day of _____, 20____.

BY LEGALLY AUTHORIZED REPRESENTATIVE:

(Signature)

(Print)

Sworn to and subscribed before me on this _____ day of _____, 20____.

NOTARY PUBLIC:

(Signature)

(Print)

My Commission expires:

CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

LISTING OF SUBCONTRACTORS

The submitting bidder shall fill in the following listing of all subcontractors they intend to use in the performance of the work outlined herein. No subcontractor shall be substituted for any listed below without the written consent of the City of Newark. The submitting bidder hereby certifies that they have notified all subcontractors that they are obligated to comply with the provisions of this Invitation to Bid, including liability insurance coverage requirements, and all other federal or state laws as they pertain to this project. The submitting bidder shall submit evidence of such compliance upon notice of request.

1. Subcontractor name: _____

Address: _____

Type of work: _____

2. Subcontractor name: _____

Address: _____

Type of work: _____

3. Subcontractor name: _____

Address: _____

Type of work: _____

CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

LISTING OF SUBCONTRACTORS (CONT.)

4. Subcontractor name: _____

Address: _____

Type of work: _____

Date: _____ Bidder: _____

Address: _____

Telephone #: _____

Email address: _____

Legally authorized representative: _____
(Signature)

(Print)

CITY OF NEWARK
Delaware

INVITATION TO BID NO. 24-01

COUNCIL CHAMBER SECURITY AND ACCESSIBILITY RENOVATIONS

REFERENCES SHEET

Provide the following information for three references who will attest to your company's ability to undertake and complete this type of work. Information denoted here must be clearly printed or typed.

1. Reference name: _____

Address: _____

Telephone #/email: _____

2. Reference name: _____

Address: _____

Telephone #/email: _____

3. Reference name: _____

Address: _____

Telephone #/email: _____

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DRAWING SET FOR:

CITY OF NEWARK COUNCIL CHAMBERS IMPROVEMENTS

220 S MAIN ST, NEWARK, DE 19711

OWNER:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

ISSUED FOR BID 12/06/23



ARCHITECTURE

JOHNSON, MIRMIRAN & THOMPSON, INC.
40 WIGHT AVENUE
HUNT VALLEY, MARYLAND 21030-2059
410.372.4817
WWW.JMTARCHITECTURE.COM

SEAL:



PROJECT:

CITY OF NEWARK
COUNCIL
CHAMBERS
IMPROVEMENTS

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

MARK	DATE	DESCRIPTION
PROJECT NO: 20-03026-024		
DATE: 12/06/23		
SCALE: 12" = 1'-0"		
DESIGNED BY: JLM		
DRAWN BY: CKM		
CHECKED BY: DCH		

DRAWING TITLE:
COVER SHEET

SHEET NUMBER:

A000

© JMT 2021

ABBREVIATIONS

@	AT	FE(C)	FIRE EXTINGUISHER (CABINET)	PLAM	PLASTIC LAMINATE
AB	ANCHOR BOLT	FIN	FINISH	PLYWD	PLYWOOD
ACP	ACOUSTICAL CEILING PANEL	FLR(G)	FLOOR(ING)	PNL(G)	PANEL(ING)
ACT	ACOUSTICAL CEILING TILE	FLUOR	FLUORESCENT	PR	PAIR
ADA	AMERICANS WITH DISABILITIES ACT	FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR	PT	PRESSURE TREATED
ADJ	ADJUSTABLE	FT(G)	FOOT(ING)	PTD	PAINTED
AFF	ABOVE FINISHED FLOOR			PVF	POLYVINYL FLUORIDE (PLASTIC)
AHU	AIR HANDLING UNIT	GA	GAUGE	QT	QUARRY / QUARTZ TILE
ALT	ALTERNATE	GAL	GALLON	R	RADIUS
ALUM	ALUMINUM	GALV	GALVANIZED	R&R	REVISE & RESUBMIT
APPROX	APPROXIMATE	GC	GENERAL CONTRACTOR	RD	ROOF DRAIN
ARCH	ARCHITECT	GL	GLASS / GLAZING	REF	REFRIGERATOR
		GWB	GYP SUM WALL BOARD	REINF	REINFORCE
		GYP	GYP SUM	REQ'D	REQUIRED
BLDG	BUILDING	H	HIGH	REV	REVISED, REVISION
BLKG	BLOCKING	HDR	HEADER	RM	ROOM
BLKHD	BULKHEAD	HDWD	HARDWOOD	RO	ROUGH OPENING
BO	BOTTOM OF	HDWR	HARDWARE	RTU	ROOF TOP UNIT
BOT	BOTTOM	HM	HOLLOW METAL		
BTWN	BETWEEN	HORIZ	HORIZONTAL	SAN	SANITARY
BUR	BUILT-UP ROOFING	HT	HEIGHT	SC	SOLID CORE
		HVAC	HEATING, VENTILATING & AIR CONDITIONING	SCHED	SCHEDULE
CAB	CABINET	HW	HOT WATER	SECT	SECTION
CL	CENTER LINE	HWH	HOT WATER HEATER	SF	SQUARE FOOT (FEET)
CLG	CEILING			SG	SEMI-GLOSS
CLOS	CLOSET	ID	INSIDE DIAMETER	SGL	SINGLE
CLR	CLEAR, CLEARANCE	INSUL	INSULATION	SHT	SHEET
CM	CONSTRUCTION MANAGER	INT	INTERIOR	SIM	SIMILAR
CMU	CONCRETE MASONRY UNIT	JAN	JANITOR	SPEC	SPECIFICATION
CO	CLEANOUT	JT	JOINT	SQ	SQUARE
COL	COLUMN			SST	STAINLESS STEEL
CONC	CONCRETE	L	LONG, LENGTH	STD	STANDARD
CONST	CONSTRUCTION	LAM	LAMINATE	STL	STEEL
CONT	CONTINUOUS	LB(S)	POUND(S)	STOR	STORAGE
CONTR	CONTRACTOR	LLV	LONG LEG VERTICAL	STRUCT	STRUCTURAL
CT	CERAMIC TILE	LT(G)	LIGHT(ING)	SUSP	SUSPEND
CW	COLD WATER	MAS	MASONRY	SVC	SERVICE
		MATL	MATERIAL	SW	STORM WATER
D	DEEP, DEPTH	MDF	MEDIUM DENSITY FIBERBOARD		
DBL	DOUBLE	MDO	MEDIUM DENSITY OVERLAY	T	TALL
DET	DETAIL	MECH	MECHANICAL	T&G	TONGUE & GROOVE
DIA	DIAMETER	MEMB	MEMBRANE	TEL	TELEPHONE
DIM	DIMENSION	MFR	MANUFACTURER	TEMP	TEMPORARY
DN	DOWN	MIN	MINIMUM	THK	THICKNESS
DS	DOWNSPOUT	MISC	MISCELLANEOUS	TO	TOP OF
DW	DISHWASHER	MO	MASONRY OPENING	TYP	TYPICAL
DWG	DRAWING	MTD	MOUNTED		
		MTL	METAL	UC	UNDERCUT
EA	EACH	NIC	NOT IN CONTRACT	UNO	UNLESS NOTED OTHERWISE
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	NO	NUMBER	UTIL	UTILITY
ELEC	ELECTRIC	NOM	NOMINAL		
EMER	EMERGENCY	NTS	NOT TO SCALE	VAR	VARIES
ENCL	ENCLOSURE	OA	OVERALL	VCT	VINYL COMPOSITION TILE
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	OC	ON CENTER	VERT	VERTICAL
EQ	EQUAL	OD	OUTSIDE DIAMETER	VIF	VERIFY IN FIELD
EQUIP	EQUIPMENT	OH	OVERHEAD		
ETR	EXISTING TO REMAIN	OPNG	OPENING	W	WIDE
EWV	ELECTRIC WATER COOLER	OPP (HD)	OPPOSITE (HAND)	WI	WITH
EXIST	EXISTING	PART	PARTITION	W/O	WITHOUT
EXP JT	EXPANSION JOINT			WC	WATER CLOSET
EXT	EXTERIOR			WD	WOOD
				WIN	WINDOW
F.O.	FACE OF			WSCT	WAINSCOT
FAB	FABRICATED			WT	WEIGHT
FD	FLOOR DRAIN				

SYMBOLS

NEW CONSTRUCTION		NORTH ARROW	
DOOR NUMBER			
DRAWING NOTE		EXTERIOR ELEVATION	
ROOM NUMBER		INTERIOR ELEVATION	
TOILET ACCESSORY NO.			
CASEWORK NUMBER		BUILDING SECTION	
WINDOWS / STOREFRONT NO.			
WALL TAGS		WALL SECTION	
		DETAIL SECTION	
COLUMN REFERENCE		CALLOUT	

MATERIALS

EARTH	STONE	GRAVEL/ CRUSHED STONE	MORTAR/ PLASTER/ GWB	CONCRETE
PRECAST CONCRETE	BRICK	CONCRETE MASONRY UNIT	STEEL (SMALL SCALE)	STEEL
FINISHED STONE	METAL (ELEVATION)	WOOD (FINISHED)	WOOD (CONTINUOUS BLOCKING)	WOOD (BLOCKING)
PLYWOOD	GLASS (LARGE SCALE)	GLASS (SMALL SCALE)	INSULATION (RIGID)	INSULATION (BLANKET)

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1	2	3	4	5	6
040120.63- BRICK MASONRY REPAIR	055213- PIPE AND TUBE RAILINGS	081113- HOLLOW METAL DOORS AND FRAMES (CONTINUED)	092900- GYPSUM BOARD	095113- ACOUSTICAL PANEL CEILINGS (CONTINUED)	095113- ACOUSTICAL PANEL CEILINGS (CONTINUED)
PART 1 - GENERAL	PART 1 - GENERAL	PART 2 - PRODUCTS	PART 1 - GENERAL	2.2 METAL SUSPENSION SYSTEM	7. WHEN STEEL FRAMING DOES NOT PERMIT INSTALLATION OF HANGER WIRES AT SPACING REQUIRED, INSTALL CARRYING CHANNELS OR OTHER SUPPLEMENTAL SUPPORT FOR ATTACHMENT OF HANGER WIRES.
1.1 SUMMARY	1.1 SUMMARY	2.1 MANUFACTURERS	1.1 SUMMARY	A. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ARMSTRONG CEILING & WALL SOLUTIONS; SUPRAFINE XL, OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:	8. DO NOT ATTACH HANGERS TO STEEL DECK TABS.
A. SECTION INCLUDES REPAIRING BRICK MASONRY.	A. SECTION INCLUDES STEEL RAILINGS.	A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:	A. SECTION INCLUDES: INTERIOR GYPSUM BOARD.	1. ARMSTRONG WORLD INDUSTRIES, INC.	9. DO NOT ATTACH HANGERS TO STEEL ROOF DECK. ATTACH HANGERS TO STRUCTURAL MEMBERS.
1.2 ACTION SUBMITTALS	1.2 ACTION SUBMITTALS	1. CECO DOOR, ASSA ABLOY	1.2 ACTION SUBMITTALS	2. CERTAINTED CORPORATION	10. SPACE HANGERS NOT MORE THAN 48 INCHES O.C. ALONG EACH MEMBER SUPPORTED DIRECTLY FROM HANGERS UNLESS OTHERWISE INDICATED; PROVIDE HANGERS NOT MORE THAN 8 INCHES FROM ENDS OF EACH MEMBER.
A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.	A. SHOP DRAWINGS: INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.	2. CURRIES COMPANY, ASSA ABLOY	A. PRODUCT DATA.	3. ROCKFON (ROCKWOOL INTERNATIONAL).	11. SIZE SUPPLEMENTAL SUSPENSION MEMBERS AND HANGERS TO SUPPORT CEILING LOADS WITHIN PERFORMANCE LIMITS ESTABLISHED BY REFERENCED STANDARDS.
PART 2 - PRODUCTS	PART 2 - PRODUCTS	3. STEELCRAFT, AN ALLEGION BRAND	PART 2 - PRODUCTS	B. METAL SUSPENSION-SYSTEM STANDARD: PROVIDE MANUFACTURER'S STANDARD, DIRECT-HUNG, METAL SUSPENSION SYSTEM AND ACCESSORIES ACCORDING TO ASTM C635/C635M AND DESIGNATED BY TYPE, STRUCTURAL CLASSIFICATION, AND FINISH INDICATED.	C. SECURE BRACING WIRES TO CEILING SUSPENSION MEMBERS AND TO SUPPORTS WITH A MINIMUM OF FOUR TIGHT TURNS. SUSPEND BRACING FROM BUILDING'S STRUCTURAL MEMBERS AS REQUIRED FOR HANGERS, WITHOUT ATTACHING TO PERMANENT METAL FORMS, STEEL DECK, OR STEEL DECK TABS.
2.1 MASONRY MATERIALS	2.1 PERFORMANCE REQUIREMENTS	4. APPROVED EQUAL.	2.1 INTERIOR GYPSUM BOARD	C. WIDE-FACE, CAPPED, DOUBLE-WEB, STEEL SUSPENSION SYSTEM; MAIN AND CROSS RUNNERS ROLL FORMED FROM COLD-ROLLED STEEL SHEET; PREPAINTED, ELECTROLYTICALLY ZINC COATED, OR HOT-DIP GALVANIZED, G30 COATING DESIGNATION; WITH PREFINISHED 9/16-INCH-WIDE METAL CAPS ON FLANGES.	D. INSTALL EDGE MOLDINGS AND TRIM OF TYPE INDICATED AT PERIMETER OF ACOUSTICAL CEILING AREA AND WHERE NECESSARY TO CONCEAL EDGES OF ACOUSTICAL PANELS.
A. FACE BRICK: AS REQUIRED TO COMPLETE BRICK MASONRY REPAIR WORK.	A. DELEGATED DESIGN: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER, TO DESIGN RAILINGS, INCLUDING ATTACHMENT TO BUILDING CONSTRUCTION.	2.1 PERFORMANCE REQUIREMENTS	A. GYPSUM WALLBOARD: ASTM C1396/C1396M.	1. STRUCTURAL CLASSIFICATION: HEAVY-DUTY SYSTEM.	1. APPLY ACOUSTICAL SEALANT IN A CONTINUOUS RIBBON CONCEALED ON BACK OF VERTICAL LEGS OF MOLDINGS BEFORE THEY ARE INSTALLED.
1. BRICK MATCHING EXISTING: UNITS WITH COLORS, COLOR VARIATION WITHIN UNITS, SURFACE TEXTURE, SIZE, AND SHAPE THAT MATCH EXISTING BRICKWORK. UTILIZE BRICK UNITS FROM DEMOLISHED OPENING AND EXISTING BRICK TO THE GREATEST EXTENT POSSIBLE.	B. STRUCTURAL PERFORMANCE: RAILINGS, INCLUDING ATTACHMENT TO BUILDING CONSTRUCTION, WITHSTAND THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED:	A. THERMALLY RATED DOOR ASSEMBLIES: PROVIDE DOOR ASSEMBLIES WITH U-FACTOR OF NOT MORE THAN 0.40 DEG BTU/F X H X SQ. FT. WHEN TESTED IN ACCORDANCE WITH ASTM C1363 OR ASTM E1423.	1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:	2. FACE DESIGN: FLAT, FLUSH.	2. SCREW ATTACH MOLDINGS TO SUBSTRATE AT INTERVALS NOT MORE THAN 16 INCHES O.C. AND NOT MORE THAN 3 INCHES FROM ENDS. MITER CORNERS ACCURATELY AND CONNECT SECURELY.
2.2 MORTAR MATERIALS	1. HANDRAILS AND TOP RAILS OF GUARDS:	2.2 EXTERIOR STANDARD STEEL DOORS AND FRAMES	a. NATIONAL GYPSUM COMPANY	3. CAP FINISH: PAINTED WHITE.	3. DO NOT USE EXPOSED FASTENERS, INCLUDING POP RIVETS, ON MOLDINGS AND TRIM.
A. PORTLAND CEMENT: ASTM C150/C150M, TYPE I OR TYPE II, EXCEPT TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION, WHITE OR GRAY, OR BOTH WHERE REQUIRED FOR COLOR MATCHING OF MORTAR.	a. UNIFORM LOAD OF 50 LBF/ FT. APPLIED IN ANY DIRECTION.	A. CONSTRUCT HOLLOW-METAL DOORS AND FRAMES TO COMPLY WITH STANDARDS INDICATED FOR MATERIALS, FABRICATION, HARDWARE LOCATIONS, HARDWARE REINFORCEMENT, TOLERANCES, AND CLEARANCES, AND AS SPECIFIED.	b. GEORGIA PACIFIC GYPSUM LLC		E. INSTALL SUSPENSION-SYSTEM RUNNERS SO THEY ARE SQUARE AND SECURELY INTERLOCKED WITH ONE ANOTHER. REMOVE AND REPLACE DENTED, BENT, OR KINKED MEMBERS.
1. PROVIDE CEMENT CONTAINING NOT MORE THAN 0.60 PERCENT TOTAL ALKALI WHEN TESTED ACCORDING TO ASTM C114.	b. CONCENTRATED LOAD OF 200 LBF APPLIED IN ANY DIRECTION.	B. EXTRA-HEAVY-DUTY DOORS AND FRAMES: ANS/SDI A250.8, LEVEL 3; ANS/SDI A250.4, LEVEL A.	c. CERTAINTED CORP.		F. INSTALL ACOUSTICAL PANELS WITH UNDAMAGED EDGES AND FIT ACCURATELY INTO SUSPENSION-SYSTEM RUNNERS AND EDGE MOLDINGS. SCRIBE AND CUT PANELS AT BORDERS AND PENETRATIONS TO PROVIDE PRECISE FIT.
B. HYDRATED LIME: ASTM C207, TYPE S.	c. UNIFORM AND CONCENTRATED LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.	1. DOORS:		2.3 ACCESSORIES	1. FOR REVEAL-EDGED PANELS ON SUSPENSION-SYSTEM RUNNERS, INSTALL PANELS WITH BOTTOM OF REVEAL IN FIRM CONTACT WITH TOP SURFACE OF RUNNER FLANGES.
C. MASONRY CEMENT: ASTM C91/C91M.	2.2 STEEL RAILINGS	a. TYPE: AS INDICATED IN THE DOOR AND FRAME SCHEDULE ON DRAWINGS.		A. ATTACHMENT DEVICES: SIZE FOR FIVE TIMES THE DESIGN LOAD INDICATED IN ASTM C635/C635M, TABLE 1, "DIRECT HUNG," UNLESS OTHERWISE INDICATED. COMPLY WITH SEISMIC DESIGN REQUIREMENTS.	2. PAINT CUT EDGES OF PANEL REMAINING EXPOSED AFTER INSTALLATION; MATCH COLOR OF EXPOSED PANEL SURFACES USING COATING RECOMMENDED IN WRITING FOR THIS PURPOSE BY ACOUSTICAL PANEL MANUFACTURER.
D. MORTAR CEMENT: ASTM C1329/C1329M.	A. TUBING: ASTM A500/A500M (COLD FORMED) OR ASTM A513/A513M, TYPE 5.	b. FACE: METALLIC-COATED STEEL SHEET, MINIMUM THICKNESS OF 0.053 INCH, WITH MINIMUM A60 COATING.		B. WIRE HANGERS, BRACES, AND TIES: PROVIDE WIRES AS FOLLOWS:	3. INSTALL HOLD-DOWN CLIPS IN AREAS INDICATED; SPACE ACCORDING TO PANEL MANUFACTURER'S WRITTEN INSTRUCTIONS UNLESS OTHERWISE INDICATED.
E. MORTAR SAND: ASTM C144.	B. PIPE: ASTM A53/A53M, TYPE F OR TYPE S, GRADE A, STANDARD WEIGHT (SCHEDULE 40), UNLESS ANOTHER GRADE AND WEIGHT ARE REQUIRED BY STRUCTURAL LOADS.	c. EDGE CONSTRUCTION: MODEL 1, FULL FLUSH.		1. ZINC-COATED, CARBON-STEEL WIRE: ASTM A641/A641M, CLASS 1 ZINC COATING, SOFT TEMPER.	a. HOLD-DOWN CLIPS: SPACE 24 INCHES O.C. ON ALL CROSS RUNNERS.
1. EXPOSED MORTAR: MATCH SIZE, TEXTURE, AND GRADATION OF EXISTING MORTAR SAND AS CLOSELY AS POSSIBLE. BLEND SEVERAL SANDS IF NECESSARY TO ACHIEVE SUITABLE MATCH.	C. PLATES, SHAPES, AND BARS: ASTM A36/A36M.	d. TOP EDGE CLOSURES: CLOSE TOP EDGES OF DOORS WITH FLUSH CLOSURES OF SAME MATERIAL AS FACE SHEETS. SEAL JOINTS AGAINST WATER PENETRATION.		2. SIZE: WIRE DIAMETER SUFFICIENT FOR ITS STRESS AT THREE TIMES HANGER DESIGN LOAD (ASTM C635/C635M, TABLE 1, "DIRECT HUNG") WILL BE LESS THAN YIELD STRESS OF WIRE, BUT NOT LESS THAN #12 GAUGE DIAMETER WIRE.	4. PROTECT LIGHTING FIXTURES AND AIR DUCTS ACCORDING TO REQUIREMENTS INDICATED FOR FIRE-RESISTANCE-RATED ASSEMBLY.
2. COLORED MORTAR: NATURAL SAND OR GROUND MARBLE, GRANITE, OR OTHER SOUND STONE OF COLOR NECESSARY TO PRODUCE REQUIRED MORTAR COLOR.	D. CAST IRON FITTINGS: EITHER GRAY IRON, ASTM A48/A48M, OR MALLEABLE IRON, ASTM A47/A47M, UNLESS OTHERWISE INDICATED.	e. BOTTOM EDGES: CLOSE BOTTOM EDGES OF DOORS WHERE REQUIRED FOR ATTACHMENT OF WEATHER STRIPPING WITH END CLOSURES OR CHANNELS OF SAME MATERIAL AS FACE SHEETS. PROVIDE WEEP-HOLE OPENINGS IN BOTTOMS OF EXTERIOR DOORS TO PERMIT MOISTURE TO ESCAPE.		C. HANGER RODS: MILD STEEL, ZINC COATED OR PROTECTED WITH RUST-INHIBITIVE PAINT.	
F. MORTAR PIGMENTS: ASTM C979/C979M, COMPOUNDED FOR USE IN MORTAR MIXES, AND HAVING A RECORD OF SATISFACTORY PERFORMANCE IN MASONRY MORTARS.	E. UNIVERSAL SHOP PRIMER: FAST-CURING, LEAD- AND CHROMATE-FREE, UNIVERSAL MODIFIED-ALKYD PRIMER COMPLYING WITH MPI#79 AND COMPATIBLE WITH TOPCOAT.	f. CORE: MANUFACTURER'S STANDARD.		D. HOLD-DOWN CLIPS: MANUFACTURER'S STANDARD HOLD-DOWN.	
G. WATER: POTABLE.	2.3 FASTENERS	2. FRAMES:		E. STABILIZERS: FOR CEILING TYPE A-2. PROVIDE MANUFACTURER'S STANDARD STABILIZER CLIPS IN LOCATIONS RECOMMENDED BY MANUFACTURER, BUT NOT LESS THAN THE FOLLOWING:	
2.3 EMBEDDED FLASHING	A. FASTENER MATERIALS:	a. MATERIALS: METALLIC-COATED STEEL SHEET, MINIMUM THICKNESS OF 0.053 INCH, WITH MINIMUM A60 COATING.	PART 3 - EXECUTION	1. ONE CLIP AT MID POINT OF LONG EDGE.	
A. METAL FLASHING: PROVIDE METAL FLASHING COMPLYING WITH SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" AND AS FOLLOWS:	1. UNGALVANIZED STEEL RAILING COMPONENTS: PLATED STEEL FASTENERS COMPLYING WITH ASTM F194/ASTM F194M, CLASS FE/ZN 5 FOR ZINC COATING.	b. CONSTRUCTION: FULL PROFILE WELDED.	3.1 INSTALLATION OF PANELS		
1. STAINLESS STEEL: ASTM A240/A240M OR ASTM A666, TYPE 304, 0.016 INCH THICK.	B. POST-INSTALLED ANCHORS: FASTENER SYSTEMS WITH WORKING CAPACITY GREATER THAN OR EQUAL TO THE DESIGN LOAD, ACCORDING TO AN EVALUATION REPORT ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, BASED ON ICC-ES AC193 OR ICC-ES AC308.		A. EXAMINE PANELS BEFORE INSTALLATION. REJECT PANELS THAT ARE WET, MOISTURE DAMAGED, AND MOLD DAMAGED.		
2. FABRICATE CONTINUOUS FLASHINGS IN SECTIONS 96 INCHES LONG MINIMUM, BUT NOT EXCEEDING 12 FT. PROVIDE SPLICE PLATES AT JOINTS OF FORMED, SMOOTH METAL FLASHING.	1. MATERIAL FOR INTERIOR LOCATIONS: CARBON-STEEL COMPONENTS ZINC-PLATED TO COMPLY WITH ASTM B633 OR ASTM F1941/F1941M, CLASS FE/ZN 5, UNLESS OTHERWISE INDICATED.	2.3 FRAME ANCHORS	B. COMPLY WITH ASTM C840.		
3. FABRICATE METAL DRIP EDGES FROM STAINLESS STEEL, EXTEND AT LEAST 3 INCHES INTO WALL AND 1/2 INCH OUT FROM WALL, WITH OUTER EDGE BENT DOWN 30 DEGREES AND HEMMED.	2.4 FABRICATION	A. JAMB ANCHORS:	C. ISOLATE PERIMETER OF GYPSUM BOARD APPLIED TO NON-LOAD-BEARING PARTITIONS AT STRUCTURAL ABUTMENTS. PROVIDE 1/4- TO 1/2-INCH- WIDE SPACES AT THESE LOCATIONS AND TRIM EDGES WITH EDGE TRIM WHERE EDGES OF PANELS ARE EXPOSED. SEAL JOINTS BETWEEN EDGES AND ABUTTING STRUCTURAL SURFACES WITH ACOUSTICAL SEALANT.		
2.4 ACCESSORIES	A. CUT, DRILL, AND PUNCH METALS CLEANLY AND ACCURATELY.	1. TYPE: ANCHORS OF MINIMUM SIZE AND TYPE REQUIRED BY APPLICABLE DOOR AND FRAME STANDARD, AND SUITABLE FOR PERFORMANCE LEVEL INDICATED.	D. FOR TRIM WITH BACK FLANGES INTENDED FOR FASTENERS, ATTACH TO FRAMING WITH SAME FASTENERS USED FOR PANELS. OTHERWISE, ATTACH TRIM ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.		
A. WEEP/CAVITY VENTS: USE THE FOLLOWING UNLESS OTHERWISE INDICATED:	1. REMOVE BURRS AND EASE EDGES TO A RADIUS OF APPROXIMATELY 1/32 INCH UNLESS OTHERWISE INDICATED.	2. QUANTITY: MINIMUM OF THREE ANCHORS PER JAMB.	3.2 FINISHING OF GYPSUM BOARD		
1. CELLULAR PLASTIC WEEP/VENT: ONE-PIECE, FLEXIBLE EXTRUSION MADE FROM UV-RESISTANT POLYPROPYLENE COPOLYMER, FULL HEIGHT AND WIDTH OF HEAD JOINT AND DEPTH 1/8 INCH LESS THAN DEPTH OF OUTER WYTHE, IN COLOR SELECTED FROM MANUFACTURER'S STANDARD.	2. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES.	B. FLOOR ANCHORS: PROVIDE FLOOR ANCHORS FOR EACH JAMB AND MULLION THAT EXTENDS TO FLOOR.	A. PREFILL OPEN JOINTS, ROUNDED OR BEVELED EDGES, AND DAMAGED SURFACE AREAS.		
B. CAVITY DRAINAGE MATERIAL: FREE-DRAINING MESH, MADE FROM POLYMER STRANDS THAT WILL NOT DEGRADE WITHIN THE WALL CAVITY.	B. FORM WORK TRUE TO LINE AND LEVEL WITH ACCURATE ANGLES AND SURFACES.	C. MATERIAL: ASTM A879/A879M, COMMERCIAL STEEL (CS), 042 COATING DESIGNATION; MILL PHOSPHATIZED.	B. APPLY JOINT TAPE OVER GYPSUM BOARD JOINTS, EXCEPT FOR TRIM PRODUCTS SPECIFICALLY INDICATED AS NOT INTENDED TO RECEIVE TAPE.		
1. MORTAR DEFLECTOR: STRIPS, FULL DEPTH OF CAVITY AND 10 INCHES HIGH, WITH DOVETAIL-SHAPED NOTCHES THAT PREVENT CLOGGING WITH MORTAR DROPPINGS.	C. WELDED CONNECTIONS: COPE COMPONENTS AT CONNECTIONS TO PROVIDE CLOSE FIT, OR USE FITTINGS DESIGNED FOR THIS PURPOSE. WELD ALL AROUND AT CONNECTIONS, INCLUDING AT FITTINGS.	1. FOR ANCHORS BUILT INTO EXTERIOR WALLS, STEEL SHEET COMPLYING WITH ASTM A1008/A1008M OR ASTM A1011/A1011M; HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153/A153M, CLASS B.	C. GYPSUM BOARD FINISH LEVELS: PROVIDE LEVEL 4 FINISH IN ACCORDANCE WITH ASTM C840.		
PART 3 - EXECUTION	D. FORM CHANGES IN DIRECTION AS FOLLOWS:	2. COMPLY WITH BHMA A156.115 FOR PREPARING HOLLOW-METAL DOORS AND FRAMES FOR HARDWARE.	END OF SECTION		
3.1 BRICK REMOVAL AND REPLACEMENT	1. BY BENDING OR BY INSERTING PREFABRICATED ELBOW FITTINGS.	2.5 STEEL FINISHES	095113- ACOUSTICAL PANEL CEILINGS	PART 3 - EXECUTION	
A. AT LOCATIONS INDICATED, REMOVE BRICKS THAT ARE TO BE REUSED. CAREFULLY REMOVE ENTIRE UNITS FROM JOINT TO JOINT, WITHOUT DAMAGING SURROUNDING MASONRY, IN A MANNER THAT PERMITS REPLACEMENT WITH FULL-SIZE UNITS.	2. OBTAIN FUSION WITHOUT UNDERCUT OR OVERLAP.	A. PRIME FINISH: CLEAN, PRETREAT, AND APPLY MANUFACTURER'S STANDARD PRIMER.	PART 1 - GENERAL	3.1 EXAMINATION	
B. SUPPORT AND PROTECT REMAINING MASONRY THAT SURROUNDS REMOVAL AREA.	3. REMOVE FLUX IMMEDIATELY.	B. HARDWARE PREPARATION: FACTORY PREPARE HOLLOW-METAL DOORS AND FRAMES TO RECEIVE TEMPLATE-MORTISED HARDWARE, AND ELECTRICAL WIRING; INCLUDE CUTOUTS, REINFORCEMENT, MORTISING, DRILLING, AND TAPPING IN ACCORDANCE WITH ANS/SDI A250.6, THE DOOR HARDWARE SCHEDULE ON DRAWINGS, AND TEMPLATES.	1.1 SUMMARY	A. EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, INCLUDING STRUCTURAL FRAMING TO WHICH ACOUSTICAL PANEL CEILINGS ATTACH OR ABUT, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THIS AND OTHER SECTIONS THAT AFFECT CEILING INSTALLATION AND ANCHORAGE AND WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF ACOUSTICAL PANEL CEILINGS.	END OF SECTION
C. MAINTAIN REINFORCEMENT, LINTELS, AND ADJOINING CONSTRUCTION IN AN UNDAMAGED CONDITION.	4. AT EXPOSED CONNECTIONS, FINISH EXPOSED WELDS TO COMPLY WITH NOMMA'S "VOLUNTARY JOINT FINISH STANDARDS" FOR FINISH #2 WELDS; GOOD APPEARANCE, COMPLETELY SANDED JOINT, SOME UNDERCUTTING AND PINHOLES OKAY.	1. REINFORCE DOORS AND FRAMES TO RECEIVE NONTEMPLATED, MORTISED, AND SURFACE-MOUNTED DOOR HARDWARE.	A. SECTION INCLUDES ACOUSTICAL PANELS AND EXPOSED SUSPENSION SYSTEMS FOR INTERIOR CEILINGS.	B. EXAMINE ACOUSTICAL PANELS BEFORE INSTALLATION. REJECT ACOUSTICAL PANELS THAT ARE WET, MOISTURE DAMAGED, OR MOLD DAMAGED.	
D. NOTIFY ARCHITECT OF UNFORESEEN DETRIMENTAL CONDITIONS INCLUDING VOIDS, CRACKS, BULGES, AND LOOSE UNITS IN EXISTING MASONRY BACKUP, ROTTED WOOD, RUSTED METAL, AND OTHER DETERIORATED ITEMS.	5. REMOVE FLUX IMMEDIATELY.	2. COMPLY WITH BHMA A156.115 FOR PREPARING HOLLOW-METAL DOORS AND FRAMES FOR HARDWARE.	1.2 ACTION SUBMITTALS	C. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.	
E. REMOVE IN AN UNDAMAGED CONDITION AS MANY WHOLE BRICKS AS POSSIBLE.	6. AT EXPOSED CONNECTIONS, FINISH EXPOSED WELDS TO COMPLY WITH NOMMA'S "VOLUNTARY JOINT FINISH STANDARDS" FOR FINISH #2 WELDS; GOOD APPEARANCE, COMPLETELY SANDED JOINT, SOME UNDERCUTTING AND PINHOLES OKAY.		A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.		
1. REMOVE MORTAR, LOOSE PARTICLES, AND SOIL FROM BRICK BY CLEANING WITH HAND CHISELS, BRUSHES, AND WATER.	7. REMOVE FLUX IMMEDIATELY.		B. SAMPLES: FOR EACH EXPOSED PRODUCT AND FOR EACH COLOR AND TEXTURE SPECIFIED, 6 INCHES IN SIZE.		
2. REMOVE SEALANTS BY CUTTING CLOSE TO BRICK WITH UTILITY KNIFE AND CLEANING WITH SOLVENTS.	8. AT EXPOSED CONNECTIONS, FINISH EXPOSED WELDS TO COMPLY WITH NOMMA'S "VOLUNTARY JOINT FINISH STANDARDS" FOR FINISH #2 WELDS; GOOD APPEARANCE, COMPLETELY SANDED JOINT, SOME UNDERCUTTING AND PINHOLES OKAY.		1.3 MAINTENANCE MATERIAL SUBMITTALS		
F. CLEAN MASONRY SURROUNDING REMOVAL AREAS BY REMOVING MORTAR, DUST, AND LOOSE PARTICLES IN PREPARATION FOR BRICK REPLACEMENT.	9. REMOVE FLUX IMMEDIATELY.		A. FURNISH EXTRA MATERIALS, FROM THE SAME PRODUCT RUN, THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS.		
G. INSTALL REPLACEMENT BRICK INTO BONDING AND COURSING PATTERN OF EXISTING BRICK. IF CUTTING IS REQUIRED, USE A MOTOR-DRIVEN SAW DESIGNED TO CUT MASONRY WITH CLEAN, SHARP, UNCHIPPED EDGES.	10. REMOVE FLUX IMMEDIATELY.		1. ACOUSTICAL CEILING UNITS: FULL-SIZE PANELS EQUAL TO 2 PERCENT OF QUANTITY INSTALLED.		
1. MAINTAIN JOINT WIDTH FOR REPLACEMENT UNITS TO MATCH EXISTING JOINTS.	11. REMOVE FLUX IMMEDIATELY.		2. SUSPENSION-SYSTEM COMPONENTS: QUANTITY OF EACH EXPOSED COMPONENT EQUAL TO 2 PERCENT OF QUANTITY INSTALLED.		
2. TOOL EXPOSED MORTAR JOINTS IN REPAIRED AREAS TO MATCH JOINTS OF SURROUNDING EXISTING BRICKWORK.	12. REMOVE FLUX IMMEDIATELY.		PART 2 - PRODUCTS		
H. CURING: CURE MORTAR BY MAINTAINING IN THOROUGHLY DAMP CONDITION FOR AT LEAST 72 CONSECUTIVE HOURS, INCLUDING WEEKENDS AND HOLIDAYS.	13. REMOVE FLUX IMMEDIATELY.		2.1 ACOUSTICAL PANELS <CT-I>		
3.2 FLASHING, WEEP HOLES, AND CAVITY VENTS	14. REMOVE FLUX IMMEDIATELY.		A. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ARMSTRONG CEILING & WALL SOLUTIONS; ULTIMA HIGH NRC 1942, OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING:		
A. GENERAL: INSTALL EMBEDDED FLASHING AND WEEP HOLES IN MASONRY AT SHELF ANGLES, LINTELS, LEDGES, OTHER OBSTRUCTIONS TO DOWNWARD FLOW OF WATER IN WALL, AND WHERE INDICATED.	15. REMOVE FLUX IMMEDIATELY.		1. CERTAINTED CORPORATION		
B. INSTALL FLASHING AS FOLLOWS UNLESS OTHERWISE INDICATED:	16. REMOVE FLUX IMMEDIATELY.		2. ROCKFON (ROCKWOOL INTERNATIONAL).		
1. PREPARE MASONRY SURFACES SO THEY ARE SMOOTH AND FREE FROM PROJECTIONS THAT COULD PUNCTURE FLASHING, WHERE FLASHING IS WITHIN MORTAR JOINT, PLACE THROUGH-WALL FLASHING ON SLOPING BED OF MORTAR AND COVER WITH MORTAR, BEFORE COVERING WITH MORTAR, SEAL PENETRATIONS IN FLASHING WITH ADHESIVE, SEALANT, OR TAPE.	17. REMOVE FLUX IMMEDIATELY.		B. ACOUSTICAL PANEL STANDARD: PROVIDE MANUFACTURER'S STANDARD PANELS ACCORDING TO ASTM E1264 AND DESIGNATED BY TYPE, FORM, PATTERN, ACOUSTICAL RATING, AND LIGHT REFLECTANCE UNLESS OTHERWISE INDICATED.		
2. AT LINTELS AND SHELF ANGLES, EXTEND FLASHING 6 INCHES MINIMUM, TO EDGE OF NEXT FULL UNIT AT EACH END. AT HEADS AND SILLS, EXTEND FLASHING 6 INCHES MINIMUM, TO EDGE OF NEXT FULL UNIT AND TURN ENDS UP NOT LESS THAN 2 INCHES TO FORM END DAMS.	18. REMOVE FLUX IMMEDIATELY.		C. CLASSIFICATION: PROVIDE PANELS AS FOLLOWS:		
C. INSTALL WEEP HOLES IN EXTERIOR WYTHES AND VENEERS IN HEAD JOINTS OF FIRST COURSE OF MASONRY IMMEDIATELY ABOVE EMBEDDED FLASHING.	19. REMOVE FLUX IMMEDIATELY.		1. TYPE AND FORM: TYPE IV, MINERAL BASE WITH PAINTED FINISH; FORM 2, MODULAR.		
D. PLACE CAVITY DRAINAGE MATERIAL IN AIRSPACE BEHIND VENEERS TO COMPLY WITH CONFIGURATION REQUIREMENTS FOR CAVITY DRAINAGE MATERIAL IN "ACCESSORIES" ARTICLE.	20. REMOVE FLUX IMMEDIATELY.		2. PATTERN: E (LIGHTLY TEXTURED).		
END OF SECTION	21. REMOVE FLUX IMMEDIATELY.		D. COLOR: WHITE.		
	22. REMOVE FLUX IMMEDIATELY.		E. LIGHT REFLECTANCE (LR): NOT LESS THAN 0.87.		
	23. REMOVE FLUX IMMEDIATELY.		F. CEILING ATTENUATION CLASS (CAC): NOT LESS THAN 35.		
	24. REMOVE FLUX IMMEDIATELY.		G. NOISE REDUCTION COEFFICIENT (NRC): NOT LESS THAN 0.80.		
	25. REMOVE FLUX IMMEDIATELY.		H. ARTICULATION CLASS (AC): NOT LESS THAN 170.		
	26. REMOVE FLUX IMMEDIATELY.		I. EDGE/JOINT DETAIL: REVEAL SIZED TO FIT FLANGE OF EXPOSED SUSPENSION-SYSTEM MEMBERS.		
	27. REMOVE FLUX IMMEDIATELY.		J. THICKNESS: 1 INCH.		
	28. REMOVE FLUX IMMEDIATELY.		K. MODULAR SIZE: 24 BY 24 INCHES.		
	29. REMOVE FLUX IMMEDIATELY.		L. ANTIMICROBIAL TREATMENT: MANUFACTURER'S STANDARD BROAD SPECTRUM, ANTIMICROBIAL FORMULATION THAT INHIBITS FUNGUS, MOLD, MILDEW, AND GRAM-POSITIVE AND GRAM-NEGATIVE BACTERIA AND SHOWING NO MOLD, MILDEW, OR BACTERIAL GROWTH WHEN TESTED ACCORDING TO ASTM D3273, ASTM D3274, OR ASTM G21 AND EVALUATED ACCORDING TO ASTM D3274 OR ASTM G21.		
	30. REMOVE FLUX IMMEDIATELY.		(CONTINUED)		
	31. REMOVE FLUX IMMEDIATELY.				
	32. REMOVE FLUX IMMEDIATELY.				
	33. REMOVE FLUX IMMEDIATELY.				
	34. REMOVE FLUX IMMEDIATELY.				
	35. REMOVE FLUX IMMEDIATELY.				
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	51. REMOVE FLUX IMMEDIATELY.				
	52. REMOVE FLUX IMMEDIATELY.				
	53. REMOVE FLUX IMMEDIATELY				



SEAL:



PROJECT:

CITY OF NEWARK COUNCIL CHAMBERS IMPROVEMENTS

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

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096519- RESILIENT FLOORING PART 1 - GENERAL 1.1 SUMMARY A. SECTION INCLUDES: 1. RESILIENT TILE FLOORING 2. RESILIENT STAIR ACCESSORIES 1.2 ACTION SUBMITTALS A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT. B. SHOP DRAWINGS: FOR EACH TYPE OF FLOORING. 1. INCLUDE FLOORING LAYOUTS, LOCATIONS OF SEAMS, EDGES, COLUMNS, DOORWAYS, ENCLOSING PARTITIONS, BUILT-IN FURNITURE, CABINETS, AND CUTOUTS. 2. SHOW DETAILS OF SPECIAL PATTERNS. C. SAMPLES: FOR EACH EXPOSED PRODUCT AND FOR EACH COLOR AND PATTERN SPECIFIED IN MANUFACTURER'S STANDARD SIZE, BUT NOT LESS THAN 6-BY-9-INCH SECTIONS. D. PRODUCT SCHEDULE: USE SAME DESIGNATIONS INDICATED ON DRAWINGS. 1.3 MAINTENANCE MATERIAL SUBMITTALS A. FURNISH EXTRA MATERIALS, FROM THE SAME PRODUCT RUN THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. 1. FLOOR TILE: FURNISH ONE BOX FOR EVERY 50 BOXES OR FRACTION THEREOF, OF EACH TYPE, COLOR, AND PATTERN OF FLOOR TILE INSTALLED. 1.4 FIELD CONDITIONS A. MAINTAIN AMBIENT TEMPERATURES WITHIN RANGE RECOMMENDED BY MANUFACTURER, BUT NOT LESS THAN 70 DEG F OR MORE THAN 95 DEG F, IN SPACES TO RECEIVE FLOORING DURING THE FOLLOWING PERIODS: 1. 72 HOURS BEFORE INSTALLATION. 2. DURING INSTALLATION. 3. 72 HOURS AFTER INSTALLATION. B. AFTER INSTALLATION AND UNTIL SUBSTANTIAL COMPLETION, MAINTAIN AMBIENT TEMPERATURES WITHIN RANGE RECOMMENDED BY MANUFACTURER, BUT NOT LESS THAN 55 DEG F OR MORE THAN 95 DEG F. C. CLOSE SPACES TO TRAFFIC DURING FLOORING INSTALLATION. D. CLOSE SPACES TO TRAFFIC FOR 72 HOURS AFTER FLOORING INSTALLATION. E. INSTALL FLOORING AFTER OTHER FINISHING OPERATIONS, INCLUDING PAINTING, HAVE BEEN COMPLETED. PART 2 - PRODUCTS 2.1 LUXURY VINYL TILE <LVT-1> A. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE SHAW CONTRACT, BRANCHING OUT SMM ACOUSTIC, OR A COMPARABLE PRODUCT BY CITY APPROVED EQUAL. 1. COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE. 2. BACKING: PAD 3. SOIL RELEASE: YES 4. STANDARD SIZE: 6" X 48" PLANK 5. EDGE: SQUARE 2.2 INSTALLATION MATERIALS A. TROWELABLE LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND-CEMENT-BASED OR BLENDED HYDRAULIC-CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY FLOOR TILE MANUFACTURER FOR APPLICATIONS INDICATED. B. ADHESIVES: WATER-RESISTANT TYPE RECOMMENDED BY FLOOR TILE AND ADHESIVE MANUFACTURERS TO SUIT FLOOR TILE AND SUBSTRATE CONDITIONS INDICATED. 2.3 ACCESSORIES A. STAIR TREAD WITH RISER <ST-1> 1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE JOHNSONITE/TARKETT; ANGLE FIT RUBBER STAIR TREAD WITH INTEGRATED RISER, OR A COMPARABLE PRODUCT BY CITY APPROVED EQUAL. 2. TEXTURE: RANDOM (RAISED ROUND) 3. COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE. B. STAIR NOSING <SN-1> 1. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE JOHNSONITE/TARKETT; 1/8" SQUARE NOSING VDL-XX-SQ, OR A COMPARABLE PRODUCT BY CITY APPROVED EQUAL. 2. COLOR: AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE. PART 3 - EXECUTION 3.1 PREPARATION A. PREPARE SUBSTRATES ACCORDING TO FLOOR TILE MANUFACTURER'S WRITTEN INSTRUCTIONS TO ENSURE ADHESION OF RESILIENT PRODUCTS. B. CONCRETE SUBSTRATES: PREPARE ACCORDING TO ASTM F710. C. FILL CRACKS, HOLES, AND DEPRESSIONS IN SUBSTRATES WITH TROWELABLE LEVELING AND PATCHING COMPOUND, REMOVE BUMPS AND RIDGES TO PRODUCE A UNIFORM AND SMOOTH SUBSTRATE. D. DO NOT INSTALL FLOOR TILES UNTIL MATERIALS ARE THE SAME TEMPERATURE AS SPACE WHERE THEY ARE TO BE INSTALLED. 3.2 FLOOR TILE INSTALLATION A. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLING FLOOR TILE. B. LAY OUT FLOOR TILES FROM CENTER MARKS ESTABLISHED WITH PRINCIPAL WALLS, DISCOUNTING MINOR OFFSETS, SO TILES AT OPPOSITE EDGES OF ROOM ARE OF EQUAL WIDTH, ADJUST AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THAN ONE-HALF TILE AT PERIMETER. 1. LAY TILES SQUARE WITH ROOM AXIS. C. MATCH FLOOR TILES FOR COLOR AND PATTERN BY SELECTING TILES FROM CARTONS IN THE SAME SEQUENCE AS MANUFACTURED AND PACKAGED, IF SO NUMBERED. DISCARD BROKEN, CRACKED, CHIPPED, OR DEFORMED TILES. 1. LAY TILES WITH GRAIN RUNNING IN ONE DIRECTION. D. SCRIBE, CUT, AND FIT FLOOR TILES TO BUTT NEATLY AND TIGHTLY TO VERTICAL SURFACES AND PERMANENT FIXTURES INCLUDING BUILT-IN FURNITURE, CABINETS, PIPES, OUTLETS, AND DOOR FRAMES. E. EXTEND FLOOR TILES INTO TOE SPACES, DOOR REVEALS, CLOSETS, AND SIMILAR OPENINGS. EXTEND FLOOR TILES TO CENTER OF DOOR OPENINGS. F. MAINTAIN REFERENCE MARKERS, HOLES, AND OPENINGS THAT ARE IN PLACE OR MARKED FOR FUTURE CUTTING BY REPEATING ON FLOOR TILES AS MARKED ON SUBSTRATES. USE CHALK OR OTHER NONPERMANENT MARKING DEVICE. H. ADHERE FLOOR TILES TO SUBSTRATES USING A FULL SPREAD OF ADHESIVE APPLIED TO SUBSTRATE TO PRODUCE A COMPLETED INSTALLATION WITHOUT OPEN CRACKS, VOIDS, RAISING AND PUCKERING AT JOINTS, TELEGRAPHING OF ADHESIVE SPREADER MARKS, AND OTHER SURFACE IMPERFECTIONS. END OF SECTION	096813- TILE CARPETING PART 1 - GENERAL 1.1 SUMMARY A. SECTION INCLUDES: 1. MODULAR CARPET TILE. 1.2 ACTION SUBMITTALS A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT. 1. INCLUDE MANUFACTURER'S WRITTEN DATA ON PHYSICAL CHARACTERISTICS, DURABILITY, AND FADE RESISTANCE. 2. INCLUDE MANUFACTURER'S WRITTEN INSTALLATION RECOMMENDATIONS FOR EACH TYPE OF SUBSTRATE. B. SHOP DRAWINGS: FOR CARPET TILE INSTALLATION, PLANS SHOWING THE FOLLOWING: 1. COLUMNS, DOORWAYS, ENCLOSING WALLS OR PARTITIONS, BUILT-IN CABINETS, AND LOCATIONS WHERE CUTOUTS ARE REQUIRED IN CARPET TILES. 2. CARPET TILE TYPE, COLOR, AND DYE LOT. 3. TYPE OF SUBFLOOR. 4. TYPE OF INSTALLATION. 5. PATTERN OF INSTALLATION. 6. PATTERN TYPE, LOCATION, AND DIRECTION. 7. PILE DIRECTION. 8. TYPE, COLOR, AND LOCATION OF INSETS AND BORDERS. 9. TYPE, COLOR, AND LOCATION OF EDGE, TRANSITION, AND OTHER ACCESSORY STRIPS. 10. TRANSITION DETAILS TO OTHER FLOORING MATERIALS. C. SAMPLES: FOR EACH OF THE FOLLOWING PRODUCTS AND FOR EACH COLOR AND TEXTURE REQUIRED. LABEL EACH SAMPLE WITH MANUFACTURER'S NAME, MATERIAL DESCRIPTION, COLOR, PATTERN, AND DESIGNATION INDICATED ON DRAWINGS AND IN SCHEDULES. 1. CARPET TILE: FULL-SIZE SAMPLE. 2. EXPOSED EDGE, TRANSITION, AND OTHER ACCESSORY STRIPPING: 12-INCH-LONG SAMPLES D. PRODUCT SCHEDULE: FOR CARPET TILE: USE SAME DESIGNATIONS INDICATED ON DRAWINGS. 1.3 MAINTENANCE MATERIAL SUBMITTALS A. FURNISH EXTRA MATERIALS, FROM THE SAME PRODUCT RUN, THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. 1. CARPET TILE: FULL-SIZE UNITS EQUAL TO 5 PERCENT OF AMOUNT INSTALLED FOR EACH TYPE INDICATED, BUT NOT LESS THAN 10 SQ. YD. 1.4 FIELD CONDITIONS A. COMPLY WITH THE CARPET AND RUG INSTITUTE'S CRI 104 FOR TEMPERATURE, HUMIDITY, AND VENTILATION LIMITATIONS. 1.5 WARRANTY A. SPECIAL WARRANTY FOR CARPET TILES: MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF CARPET TILE INSTALLATION THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD. 1. WARRANTY DOES NOT INCLUDE DETERIORATION OR FAILURE OF CARPET TILE DUE TO UNUSUAL TRAFFIC, FAILURE OF SUBSTRATE, VANDALISM, OR ABUSE. 2. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: a. MORE THAN 10 PERCENT EDGE RAVELING, SNAGS, AND RUNS. b. DIMENSIONAL INSTABILITY. c. EXCESS STATIC DISCHARGE. d. LOSS OF TUFT-BIND STRENGTH. e. LOSS OF FACE FIBER. f. DELAMINATION. 3. WARRANTY PERIOD: 15 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. B. FLOORING CONTRACTOR TO PROVIDE OWNER A WRITTEN WARRANTY THAT GUARANTEES THE COMPLETED INSTALLATION TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF NO LESS THAN TWO YEARS AFTER JOB COMPLETION. PART 2 - PRODUCTS 2.1 FLOOR CARPET TILE <CPT-1> A. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE TANDUS/TARKETT; LIGHT SHIFT 11524, OR A COMPARABLE PRODUCT BY CITY APPROVED EQUAL. A. COLOR: 45406 SHADOW ZONE B. BACKING: POLYESTER FELT CUSHION F. SOIL RELEASE: YES C. STANDARD SIZE: 9' X 36" PLANK H. SUSTAINABLE DESIGN REQUIREMENTS: 1. SUSTAINABLE PRODUCT CERTIFICATION: PLATINUM LEVEL CERTIFICATION ACCORDING TO ANSINFS 140. 2. DIMENSIONAL TOLERANCE: WITHIN 1/32 INCH OF SPECIFIED SIZE DIMENSIONS, AS DETERMINED BY PHYSICAL MEASUREMENT. 3. DIMENSIONAL STABILITY: 0.2 PERCENT OR LESS ACCORDING TO ISO 2551 (AACHEN TEST). 4. COLORFASTNESS TO CROCKING: NOT LESS THAN 4, WET AND DRY, ACCORDING TO AATCC 165. 2.2 INSTALLATION ACCESSORIES A. TROWELABLE LEVELING AND PATCHING COMPOUNDS: LATEX-MODIFIED, HYDRAULIC-CEMENT-BASED FORMULATION PROVIDED OR RECOMMENDED BY CARPET TILE MANUFACTURER. B. ADHESIVES: WATER-RESISTANT, MILDEW-RESISTANT, NONSTAINING, PRESSURE-SENSITIVE TYPE TO SUIT PRODUCTS AND SUBFLOOR CONDITIONS INDICATED, THAT COMPLY WITH FLAMMABILITY REQUIREMENTS FOR INSTALLED CARPET TILE, AND ARE RECOMMENDED BY CARPET TILE MANUFACTURER FOR RELEASABLE INSTALLATION. C. METAL EDGE/TRANSITION STRIPS: EXTRUDED ALUMINUM WITH MILL FINISH OF PROFILE AND WIDTH SHOWN, OF HEIGHT REQUIRED TO PROTECT EXPOSED EDGE OF CARPET, AND OF MAXIMUM LENGTHS TO MINIMIZE RUNNING JOINTS. PART 3 - EXECUTION 3.1 EXAMINATION A. EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR MAXIMUM MOISTURE CONTENT, ALKALINITY RANGE, INSTALLATION TOLERANCES, AND OTHER CONDITIONS AFFECTING CARPET TILE PERFORMANCE. B. EXAMINE CARPET TILE FOR TYPE, COLOR, PATTERN, AND POTENTIAL DEFECTS. C. CONCRETE SLABS: VERIFY THAT SURFACES ARE FREE OF CRACKS, RIDGES, DEPRESSIONS, SCALE, AND FOREIGN DEPOSITS. 1. MOISTURE TESTING: PERFORM TESTS SO THAT EACH TEST AREA DOES NOT EXCEED 1000 SQ. FT., AND PERFORM NO FEWER THAN THREE TESTS IN EACH INSTALLATION AREA AND WITH TEST AREAS EVENLY SPACED IN INSTALLATION AREAS. a. ANHYDROUS CALCIUM CHLORIDE TEST: ASTM F1869. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES HAVE MAXIMUM MOISTURE VAPOR-EMISSION RATE OF 3 LB OF WATER/1000 SQ. FT. IN 24 HOURS. (CONTINUED)	096813- TILE CARPETING (CONTINUED) b. THE CARPET AND RUG INSTITUTE'S CRI 104 RECOMMENDS A MAXIMUM 75 PERCENT RELATIVE HUMIDITY, WHICH IS THE MAXIMUM RELATIVE HUMIDITY GENERALLY RECOMMENDED FOR ADHERED SYSTEMS. c. RELATIVE HUMIDITY TEST: USING IN SITU PROBES, ASTM F2170. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES HAVE A MAXIMUM 75 PERCENT RELATIVE HUMIDITY LEVEL MEASUREMENT. d. PERFORM ADDITIONAL MOISTURE TESTS RECOMMENDED IN WRITING BY ADHESIVE AND CARPET TILE MANUFACTURERS. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES PASS TESTING. D. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. 3.2 PREPARATION A. GENERAL: COMPLY WITH THE CARPET AND RUG INSTITUTE'S CRI 104 AND WITH CARPET TILE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR PREPARING SUBSTRATES INDICATED TO RECEIVE CARPET TILE. 3.3 INSTALLATION A. GENERAL: COMPLY WITH THE CARPET AND RUG INSTITUTE'S CRI 104, SECTION 10, "CARPET TILE," AND WITH CARPET TILE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. B. INSTALLATION METHOD: AS RECOMMENDED IN WRITING BY CARPET TILE MANUFACTURER. C. MAINTAIN DYE-LOT INTEGRITY. DO NOT MIX DYE LOTS IN SAME AREA. D. MAINTAIN PILE-DIRECTION PATTERNS RECOMMENDED IN WRITING BY CARPET TILE MANUFACTURER. E. CUT AND FIT CARPET TILE TO BUTT TIGHTLY TO VERTICAL SURFACES, PERMANENT FIXTURES, AND BUILT-IN FURNITURE INCLUDING CABINETS, PIPES, OUTLETS, EDGINGS, THRESHOLDS, AND NOSINGS. BIND OR SEAL CUT EDGES AS RECOMMENDED BY CARPET TILE MANUFACTURER. F. EXTEND CARPET TILE INTO TOE SPACES, DOOR REVEALS, CLOSETS, OPEN-BOTTOMED OBSTRUCTIONS, REMOVABLE FLANGES, ALCOVES, AND SIMILAR OPENINGS. G. MAINTAIN REFERENCE MARKERS, HOLES, AND OPENINGS THAT ARE IN PLACE OR MARKED FOR FUTURE CUTTING BY REPEATING ON CARPET TILE AS MARKED ON SUBFLOOR. USE NONPERMANENT, NONSTAINING MARKING DEVICE. H. INSTALL PATTERN PARALLEL TO WALLS AND BORDERS. END OF SECTION	099113- PAINTING PART 1 - GENERAL 1.1 SUMMARY A. SECTION INCLUDES SURFACE PREPARATION AND THE APPLICATION OF PAINT SYSTEMS ON THE FOLLOWING INTERIOR SUBSTRATES: 1. STEEL AND IRON. 2. GALVANIZED METAL. 3. GYPSUM BOARD. 1.1 ACTION SUBMITTALS A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT. INCLUDE PREPARATION REQUIREMENTS AND APPLICATION INSTRUCTIONS. 1. INCLUDE PRINTOUT OF CURRENT "MPI APPROVED PRODUCTS LIST" FOR EACH PRODUCT CATEGORY SPECIFIED, WITH THE PROPOSED PRODUCT HIGHLIGHTED. 2. INDICATE VOC CONTENT. 1.2 MAINTENANCE MATERIAL SUBMITTALS A. FURNISH EXTRA MATERIALS, FROM THE SAME PRODUCT RUN, THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. 1. PAINT: 5 PERCENT, BUT NOT LESS THAN 1 GAL. OF EACH MATERIAL AND COLOR APPLIED. PART 2 - PRODUCTS 2.1 MANUFACTURERS A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING OR APPROVED EQUAL: 1. BENJAMIN MOORE & CO. 2. PPG PAINTS. 3. SHERWIN-WILLIAMS COMPANY (THE). PART 3 - EXECUTION 3.1 EXAMINATION A. EXAMINE SUBSTRATES AND CONDITIONS, WITH APPLICATOR PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR MAXIMUM MOISTURE CONTENT AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK. B. MAXIMUM MOISTURE CONTENT OF SUBSTRATES: WHEN MEASURED WITH AN ELECTRONIC MOISTURE METER AS FOLLOWS: 1. MASONRY (CLAY AND CMUS): 12 PERCENT. 2. GYPSUM BOARD: 12 PERCENT. C. GYPSUM BOARD SUBSTRATES: VERIFY THAT FINISHING COMPOUND IS SANDED SMOOTH. D. VERIFY SUITABILITY OF SUBSTRATES, INCLUDING SURFACE CONDITIONS AND COMPATIBILITY, WITH EXISTING FINISHES AND PRIMERS. E. PROCEED WITH COATINGS APPLICATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. 1. APPLICATION OF COATING INDICATES ACCEPTANCE OF SURFACES AND CONDITIONS. 3.2 PREPARATION A. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS IN "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL" APPLICABLE TO SUBSTRATES AND PAINT SYSTEMS INDICATED. B. REMOVE HARDWARE, COVERS, PLATES, AND SIMILAR ITEMS ALREADY IN PLACE THAT ARE REMOVABLE AND ARE NOT TO BE PAINTED. IF REMOVAL IS IMPRACTICAL OR IMPOSSIBLE BECAUSE OF SIZE OR WEIGHT OF ITEM, PROVIDE SURFACE-APPLIED PROTECTION BEFORE SURFACE PREPARATION AND PAINTING. 1. AFTER COMPLETING PAINTING OPERATIONS, USE WORKERS SKILLED IN THE TRADES INVOLVED TO REINSTALL ITEMS THAT WERE REMOVED. REMOVE SURFACE-APPLIED PROTECTION IF ANY. C. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR BOND OF PAINTS, INCLUDING DUST, DIRT, OIL, GREASE, AND INCOMPATIBLE PAINTS AND ENCAPSULANTS. 1. REMOVE INCOMPATIBLE PRIMERS AND REPRIME SUBSTRATE WITH COMPATIBLE PRIMERS OR APPLY TIE COAT AS REQUIRED TO PRODUCE PAINT SYSTEMS INDICATED. D. MASONRY SUBSTRATES: REMOVE EFFLORESCENCE AND CHALK. DO NOT PAINT SURFACES IF MOISTURE CONTENT OR ALKALINITY OF SURFACES OR MORTAR JOINTS EXCEEDS THAT PERMITTED IN MANUFACTURER'S WRITTEN INSTRUCTIONS. E. STEEL SUBSTRATES: REMOVE RUST, LOOSE MILL SCALE, AND SHOP PRIMER, IF ANY. CLEAN USING METHODS RECOMMENDED IN WRITING BY PAINT MANUFACTURER. F. SHOP-PRIMED STEEL SUBSTRATES: CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND AREAS WHERE SHOP PAINT IS ABRADED. PAINT EXPOSED AREAS WITH THE SAME MATERIAL AS USED FOR SHOP PRIMING TO COMPLY WITH SSPC-PA 1 FOR TOUCHING UP SHOP-PRIMED SURFACES. G. GALVANIZED-METAL SUBSTRATES: REMOVE GREASE AND OIL RESIDUE FROM GALVANIZED SHEET METAL BY MECHANICAL METHODS TO PRODUCE CLEAN, LIGHTLY ETCHED SURFACES THAT PROMOTE ADHESION OF SUBSEQUENTLY APPLIED PAINTS. 3.3 APPLICATION A. APPLY PAINTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND TO RECOMMENDATIONS IN "MPI MANUAL." 1. USE APPLICATORS AND TECHNIQUES SUITED FOR PAINT AND SUBSTRATE INDICATED. 2. PAINT SURFACES BEHIND MOVABLE EQUIPMENT AND FURNITURE SAME AS SIMILAR EXPOSED SURFACES. BEFORE FINAL INSTALLATION, PAINT SURFACES BEHIND PERMANENTLY FIXED EQUIPMENT OR FURNITURE WITH PRIME COAT ONLY. 3. PAINT FRONT AND BACKSIDES OF ACCESS PANELS, REMOVABLE OR HINGED COVERS, AND SIMILAR HINGED ITEMS TO MATCH EXPOSED SURFACES. 4. DO NOT PAINT OVER LABELS OF INDEPENDENT TESTING AGENCIES OR EQUIPMENT NAME, IDENTIFICATION, PERFORMANCE RATING, OR NOMENCLATURE PLATES. 5. PRIMERS SPECIFIED IN PAINTING SCHEDULES MAY BE OMITTED ON ITEMS THAT ARE FACTORY PRIMED OR FACTORY FINISHED IF ACCEPTABLE TO TOPCOAT MANUFACTURERS. B. TINT EACH UNDERCOAT A LIGHTER SHADE TO FACILITATE IDENTIFICATION OF EACH COAT IF MULTIPLE COATS OF SAME MATERIAL ARE TO BE APPLIED. TINT UNDERCOATS TO MATCH COLOR OF TOPCOAT, BUT PROVIDE SUFFICIENT DIFFERENCE IN SHADE OF UNDERCOATS TO DISTINGUISH EACH SEPARATE COAT. C. IF UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL COATS UNTIL CURED FILM HAS A UNIFORM PAINT FINISH, COLOR, AND APPEARANCE. D. APPLY PAINTS TO PRODUCE SURFACE FILMS WITHOUT CLOUDINESS, SPOTTING, HOLES, LAPS, BRUSH MARKS, ROLLER TRACKING, RUNS, SAGS, ROPINESS, OR OTHER SURFACE IMPERFECTIONS. CUT IN SHARP LINES AND COLOR BREAKS. (CONTINUED)	099113- PAINTING (CONTINUED) 3.4 EXTERIOR PAINTING SCHEDULE A. GALVANIZED-METAL SUBSTRATES: 1. HIGH-PERFORMANCE ARCHITECTURAL LATEX SYSTEM MPI EXT 5.3M: a. PRIME COAT: PRIMER, GALVANIZED, WATER BASED, MPI # 134. 1) BENJAMIN MOORE; ULTRA SPEC ACRYLIC METAL PRIMER 2) PPG; CORROSTOP ULTRA METAL PRIMER FOR RUST-FREE GALVANIZED METAL 3) SHERWIN WILLIAMS; PRO INDUSTRIAL DTM ACRYLIC PRIMER/FINISH b. INTERMEDIATE COAT: LATEX, INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, MATCHING TOPCOAT. c. TOPCOAT: LATEX, INTERIOR, HIGH PERFORMANCE ARCHITECTURAL (MPI GLOSS LEVEL 3), MPI #315. 1) BENJAMIN MOORE; REGAL SELECT EXTERIOR HIGH BUILD LOW LUSTRE FINISH 2) PPG; WEATHER KING EXTERIOR 100% ACRYLIC LATEX LO-LUSTRE PAINT 3) SHERWIN WILLIAMS; SUPER PAINT EXTERIOR ACRYLIC LATEX SATIN d. TOPCOAT: LATEX, INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, SEMI-GLOSS (MPI GLOSS LEVEL 5), MPI # 141. 1) BENJAMIN MOORE; REGAL SELECT EXTERIOR SEMI-GLOSS 2) PPG; TIMELESS EXTERIOR SEMI-GLOSS 3) SHERWIN WILLIAMS; SUPER PAINT EXTERIOR ACRYLIC LATEX SEMI-GLOSS 3.5 INTERIOR PAINTING SCHEDULE A. GYPSUM BOARD SUBSTRATES: 1. INSTITUTIONAL LOW-ODOR/VOC LATEX SYSTEM MPI INT 9.2M: a. PRIME COAT: PRIMER SEALER, INTERIOR, INSTITUTIONAL LOW ODOR/VOC, MPI #149. 1) BENJAMIN MOORE; ULTRASPEC 500 INTERIOR PRIMER. 2) PPG ARCHITECTURAL; SPEEDHIDE ZERO LATEX SEALER. 3) SHERWIN WILLIAMS; PROMAR 200 ZERO INTERIOR PRIMER. b. INTERMEDIATE COAT: LATEX, INTERIOR, INSTITUTIONAL LOW ODOR/VOC, MATCHING TOPCOAT. c. TOPCOAT: LATEX, INTERIOR, INSTITUTIONAL LOW ODOR/VOC, FLAT (MPI GLOSS LEVEL 1), MPI #143. 1) BENJAMIN MOORE; ULTRASPEC 500 INTERIOR FLAT. 2) PPG ARCHITECTURAL; SPEEDHIDE ZERO LATEX FLAT. 3) SHERWIN WILLIAMS; PROMAR 200 ZERO INTERIOR LATEX FLAT. d. TOPCOAT: LATEX, INTERIOR, INSTITUTIONAL LOW ODOR/VOC (MPI GLOSS LEVEL 3), MPI #145. 1) BENJAMIN MOORE; ULTRASPEC 500 INTERIOR LOW SHEEN. 2) PPG ARCHITECTURAL; SPEEDHIDE ZERO LATEX EGGSHELL. 3) SHERWIN WILLIAMS; PROMAR 200 ZERO INTERIOR LOW GLOSS EG-SHELL. e. TOPCOAT: LATEX, INTERIOR, INSTITUTIONAL LOW ODOR/VOC, SEMI-GLOSS (MPI GLOSS LEVEL 5), MPI #147. 1) BENJAMIN MOORE; ULTRASPEC 500 INTERIOR SEMI-GLOSS. 2) PPG ARCHITECTURAL; SPEEDHIDE ZERO LATEX SEMI-GLOSS. 3) SHERWIN WILLIAMS; PROMAR 200 ZERO INTERIOR LATEX SEMI-GLOSS. END OF SECTION 123623.13- PLASTIC LAMINATE CLAD COUNTERTOPS PART 1 - GENERAL 1.1 SUMMARY A. SECTION INCLUDES: 1. PLASTIC-LAMINATE-CLAD COUNTERTOPS. 1.2 ACTION SUBMITTALS A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT. B. SHOP DRAWINGS: FOR PLASTIC LAMINATE CLAD COUNTERTOPS. PART 2 - PRODUCTS 2.1 PLASTIC-LAMINATE-CLAD COUNTERTOPS A. QUALITY STANDARD: UNLESS OTHERWISE INDICATED, COMPLY WITH THE "ARCHITECTURAL WOODWORK STANDARDS" FOR GRADES OF PLASTIC-LAMINATE-CLAD COUNTERTOPS INDICATED FOR CONSTRUCTION, FINISHES, INSTALLATION, AND OTHER REQUIREMENTS. B. GRADE: CUSTOM. C. HIGH-PRESSURE DECORATIVE LAMINATE: ISO 4586-3, GRADE HGS. 1. PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: a. WILSONART b. NEVAMAR c. PIONITE D. COLORS, PATTERNS, AND FINISHES: PROVIDE MATERIALS AND PRODUCTS THAT RESULT IN COLORS AND TEXTURES OF EXPOSED LAMINATE SURFACES COMPLYING WITH THE FOLLOWING REQUIREMENTS: 1. AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE IN THE FOLLOWING CATEGORIES: a. SOLID COLORS, GLOSS AND MATTE FINISH. b. SOLID COLORS WITH CORE SAME COLOR AS SURFACE, GLOSS AND MATTE FINISH. E. EDGE TREATMENT: SAME AS LAMINATE CLADDING ON HORIZONTAL SURFACES. F. CORE MATERIAL: EXTERIOR-GRADE PLYWOOD. G. CORE THICKNESS: BUILD UP COUNTERTOP THICKNESS TO 1-1/2 INCHES AT FRONT, BACK, AND ENDS WITH ADDITIONAL LAYERS OF CORE MATERIAL LAMINATED TO TOP. 2.2 WOOD MATERIALS A. COMPOSITE WOOD PRODUCTS: PROVIDE MATERIALS THAT COMPLY WITH REQUIREMENTS OF REFERENCED QUALITY STANDARD FOR EACH TYPE OF COUNTERTOP AND QUALITY GRADE SPECIFIED UNLESS OTHERWISE INDICATED. 1. SOFTWOOD PLYWOOD: DOC PS 1. B. ADHESIVE FOR BONDING PLASTIC LAMINATE: TYPE II WATER-RESISTANT TYPE AS SELECTED BY FABRICATOR TO COMPLY WITH REQUIREMENTS. PART 3 - EXECUTION 3.1 INSTALLATION A. GRADE: INSTALL COUNTERTOPS TO COMPLY WITH SAME GRADE AS ITEM TO BE INSTALLED. B. ASSEMBLE COUNTERTOPS AND COMPLETE FABRICATION AT PROJECT SITE TO THE EXTENT THAT WAS NOT COMPLETED AT THE SHOP. C. COUNTERTOP INSTALLATION: ANCHOR SECURELY BY SCREWING THROUGH SUPPORTS INTO UNDERSIDE OF COUNTERTOP. 1. INSTALL COUNTERTOPS LEVEL AND TRUE IN LINE. USE CONCEALED SHIMS AS REQUIRED TO MAINTAIN NOT MORE THAN A 1/8-INCH-IN-96-INCHES VARIATION FROM A STRAIGHT, LEVEL PLANE. END OF SECTION	



SEAL:



PROJECT:

CITY OF NEWARK COUNCIL CHAMBERS IMPROVEMENTS

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

MARK DATE DESCRIPTION

PROJECT NO: 20-03026-024

DATE: 12/06/23

SCALE: 12" = 1'-0"

DESIGNED BY: JLH

DRAWN BY: CKM

CHECKED BY: DCH

DRAWING TITLE: SPECIFICATIONS

SHEET NUMBER:

A002

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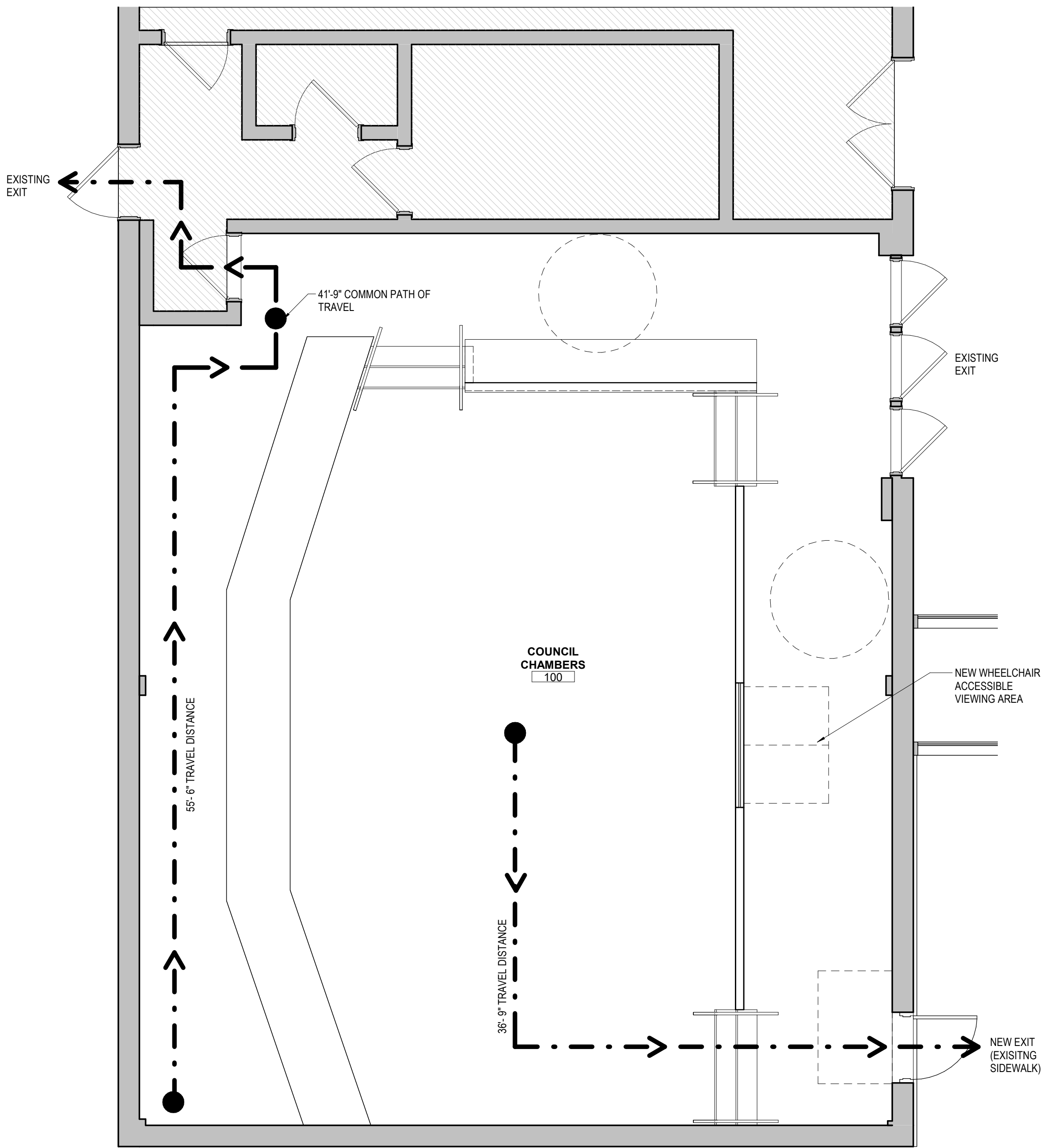
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1
A100
LIFE SAFETY PLAN
1/4" = 1'-0"

CODE SYNOPSIS

SITE LOCATION:	CITY OF NEWARK COUNCIL CHAMBERS 220 S MAIN ST, NEWARK DE 19711
BUILDING OWNER:	CITY OF NEWARK
APPLICANT:	JOHNSON, MIRMIRAN & THOMPSON 40 WIGHT AVENUE, HUNT VALLEY, MARYLAND 21030 - 2059
DESIGN PROFESSIONAL:	SAME AS APPLICANT
APPLICABLE CODES:	INTERNATIONAL BUILDING CODE, 2018 INTERNATIONAL EXISTING BUILDING CODE INTERNATIONAL ENERGY CONSTRUCTION CODE, 2018 INTERNATIONAL FIRE CODE, 2018 DELAWARE STATE FIRE PREVENTION CODE NFPA FIRE PREVENTION CODE
ACCESSIBILITY:	STATE OF DELAWARE ARCHITECTURAL ACCESSIBILITY STANDARDS
USE GROUP:	ASSEMBLY GROUP A-3 (B - BUSINESS FOR EXISTING BUILDING)
CONSTRUCTION TYPE:	2B
SPRINKLERS:	REQUIRED / BUILDING HAS AN EXISTING AUTOMATIC FIRE SUPPRESSION SYSTEM IN COMPLIANCE WITH NFPA
AREA OF WORK SQUARE FOOTAGE:	1,464 SF
OCCUPANT LOAD:	1,464 SF ACTUAL / 15 NET PER OCCUPANT = 97 OCCUPANTS
REQUIRED EXITS:	2 REQUIRED / 3 PROVIDED
MAX EXIT ACCESS TRAVEL DISTANCE:	250' MAX, 55'-6" ACTUAL
MAX COMMON PATH OF TRAVEL:	75' MAX, 41'-9" ACTUAL
EGRESS WIDTH:	3' X 97 = 29.1 / 44" MIN AT STAIRWAYS 2 X 97 = 19.4 / 36" MIN AT STAIRWAYS
STAIRWAY WIDTH:	44" MIN ACTUAL

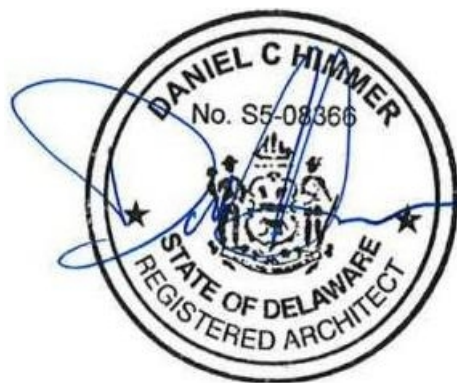


LEGEND

	DIRECTION TO PATH OF TRAVEL
	EGRESS PATHWAY
	EXIT
	EXIT LOCATION
	N.I.C.



SEAL:



PROJECT:

**CITY OF NEWARK
COUNCIL
CHAMBERS
IMPROVEMENTS**

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

MARK	DATE	DESCRIPTION
PROJECT NO:	20-03026-024	
DATE:	12/06/23	
SCALE:	As indicated	
DESIGNED BY:	JLH	
DRAWN BY:	CKM	
CHECKED BY:	DCH	

DRAWING TITLE:
**CODE COMPLIANCE
AND EGRESS**

SHEET NUMBER:

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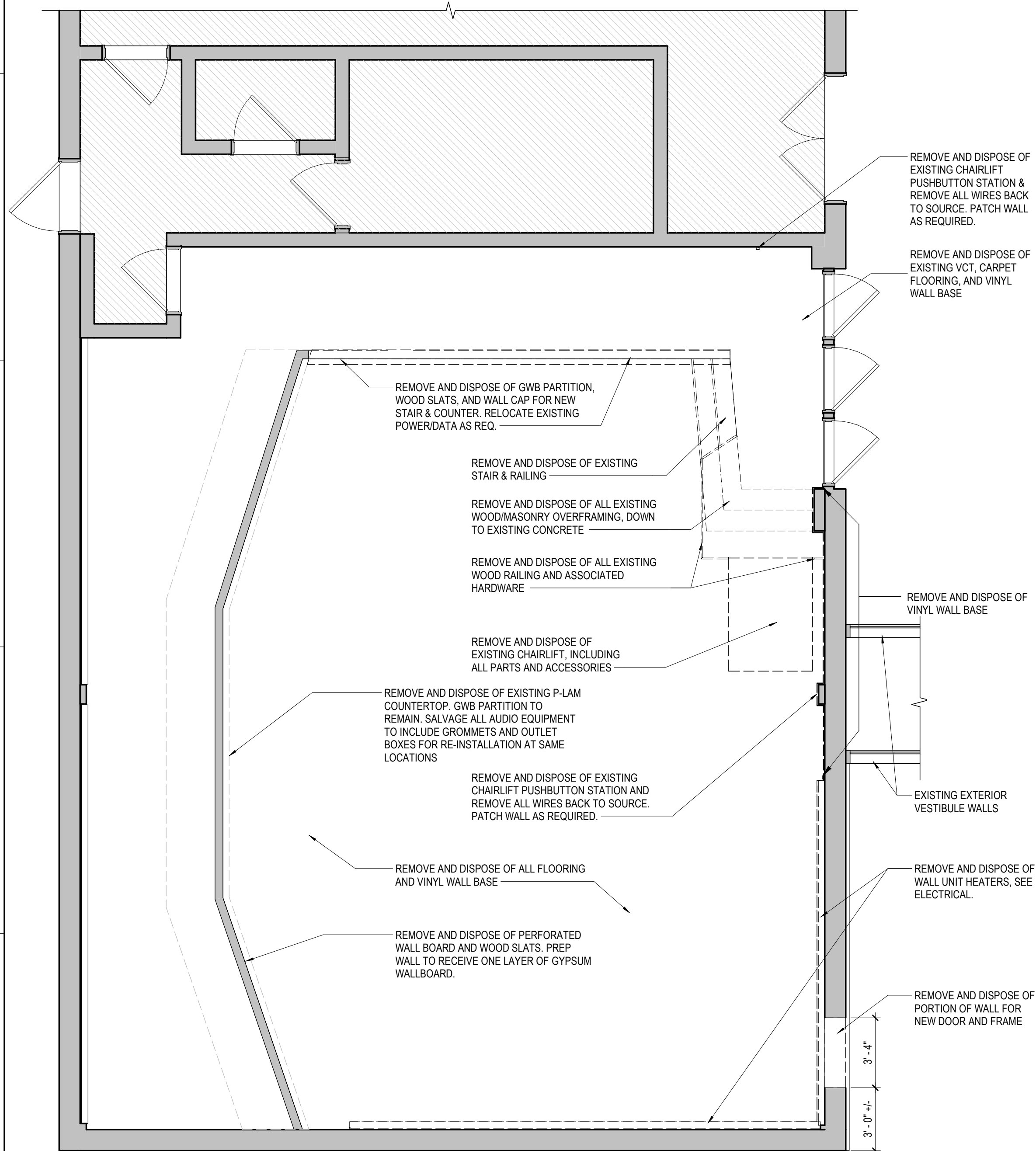
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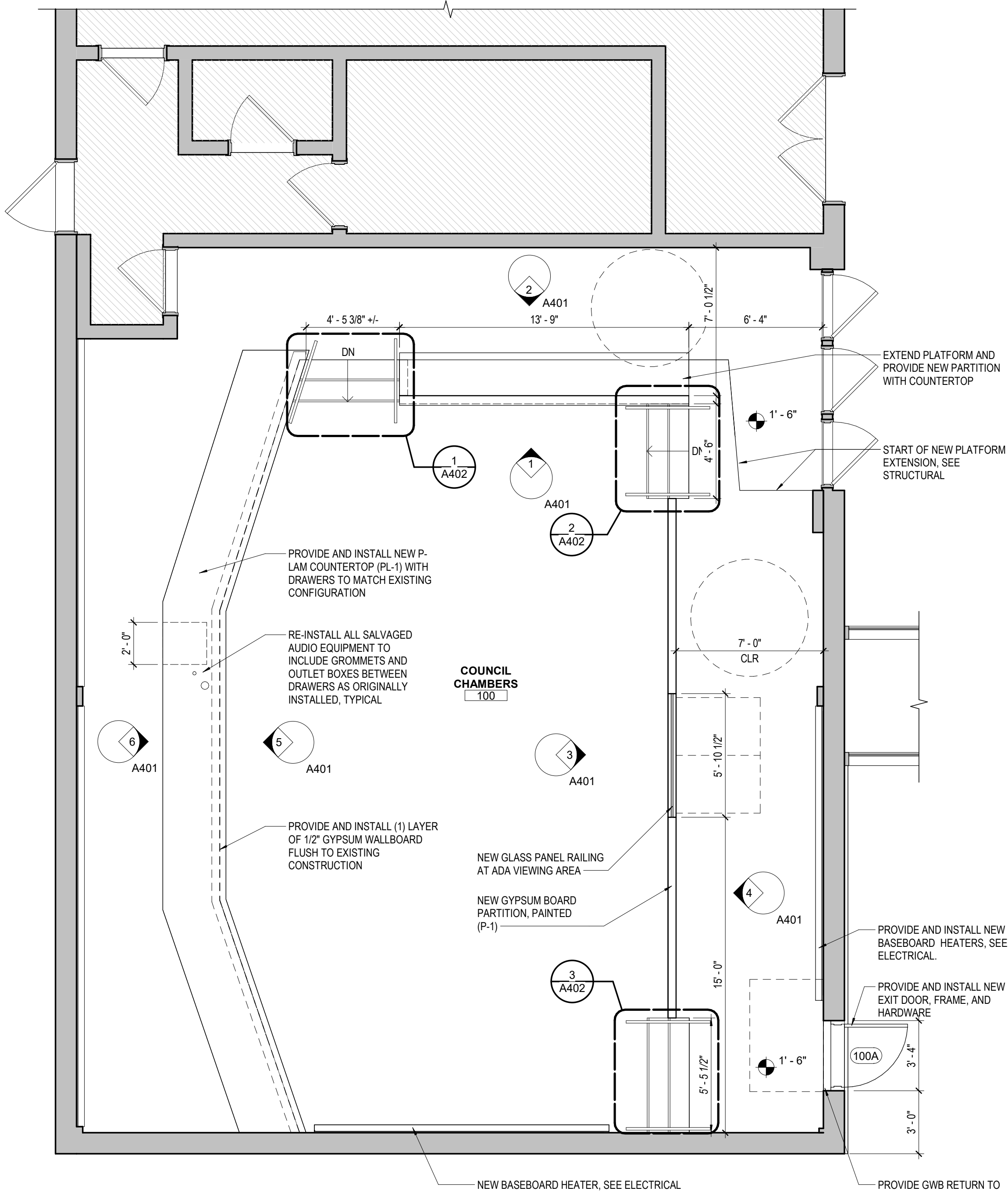
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A101
1/4" = 1'-0"

DEMOLITION PLAN



2
A101
1/4" = 1'-0"

NEW CONSTRUCTION PLAN



GENERAL NOTES

1. PROVIDE AND INSTALL NEW GYPSUM BOARD PARTITIONS AS INDICATED. ALL NEW PARTITIONS SHALL BE PAINTED.
2. SEE FINISH PLAN AND FINISH KEY ON SHEET A601 FOR ALL FINISH INFO

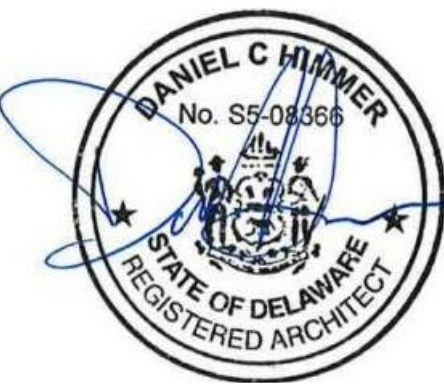
LEGEND

	REMOVE & DISPOSE OF EXISTING PARTITION & EQUIPMENT
	PROVIDE AND INSTALL NEW PARTITION.
	EXISTING PARTITION TO REMAIN.
	EXISTING DOOR/FRAME TO REMAIN.
	PROVIDE AND INSTALL NEW DOOR/FRAME & HARDWARE
	N.I.C.



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SEAL:



PROJECT:

**CITY OF NEWARK
COUNCIL
CHAMBERS
IMPROVEMENTS**

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

MARK	DATE	DESCRIPTION
PROJECT NO:	20-03026-024	
DATE:	12/06/23	
SCALE:	As indicated	
DESIGNED BY:	JLH	
DRAWN BY:	CKM	
CHECKED BY:	DCH	

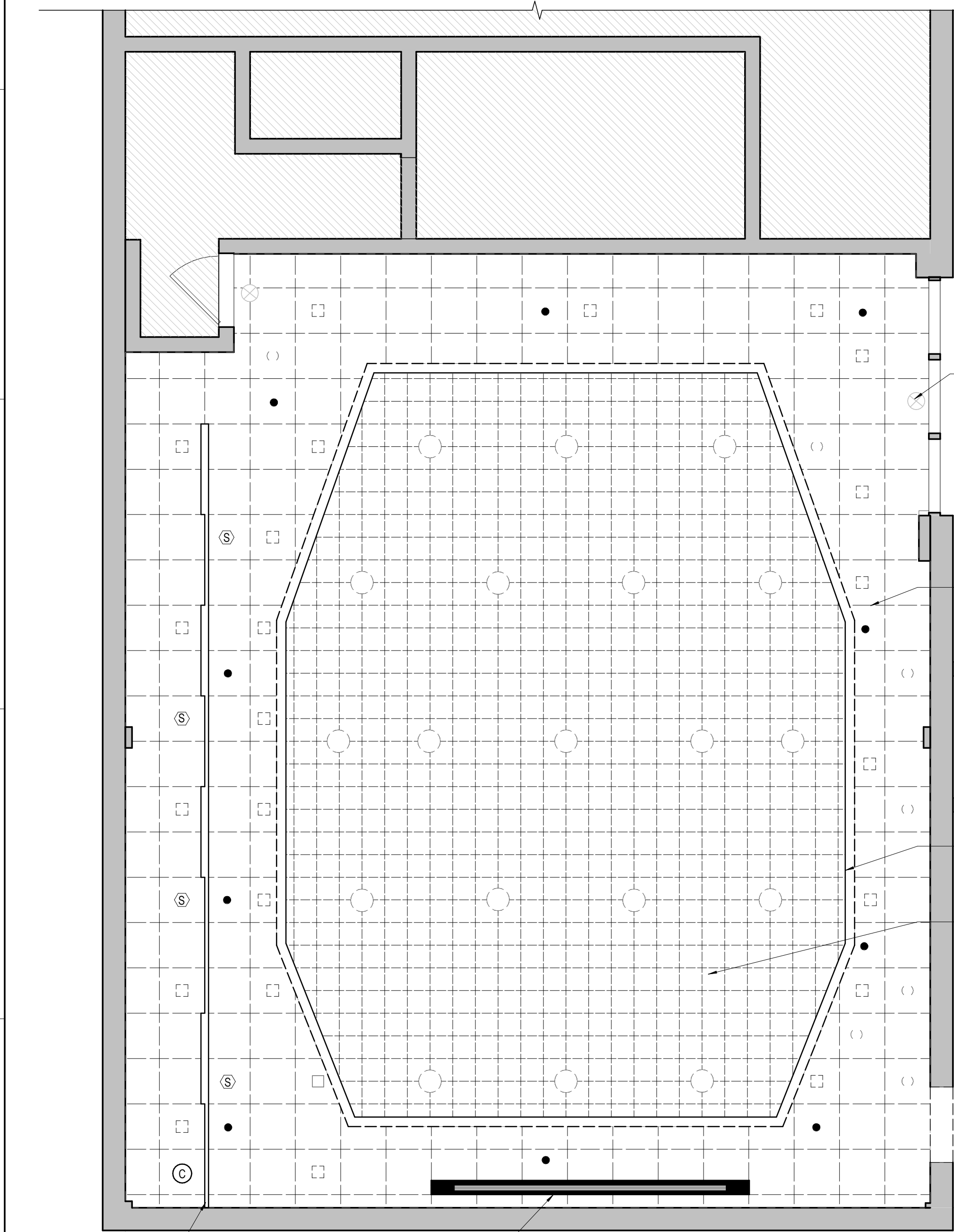
DRAWING TITLE:
**DEMOLITION AND NEW
WORK PLANS**

SHEET NUMBER:

A101

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EXISTING EXIT SIGNS TO REMAIN

REMOVE AND DISPOSE OF ALL EXISTING CEILING TILE, GRID, AND LIGHT FIXTURES

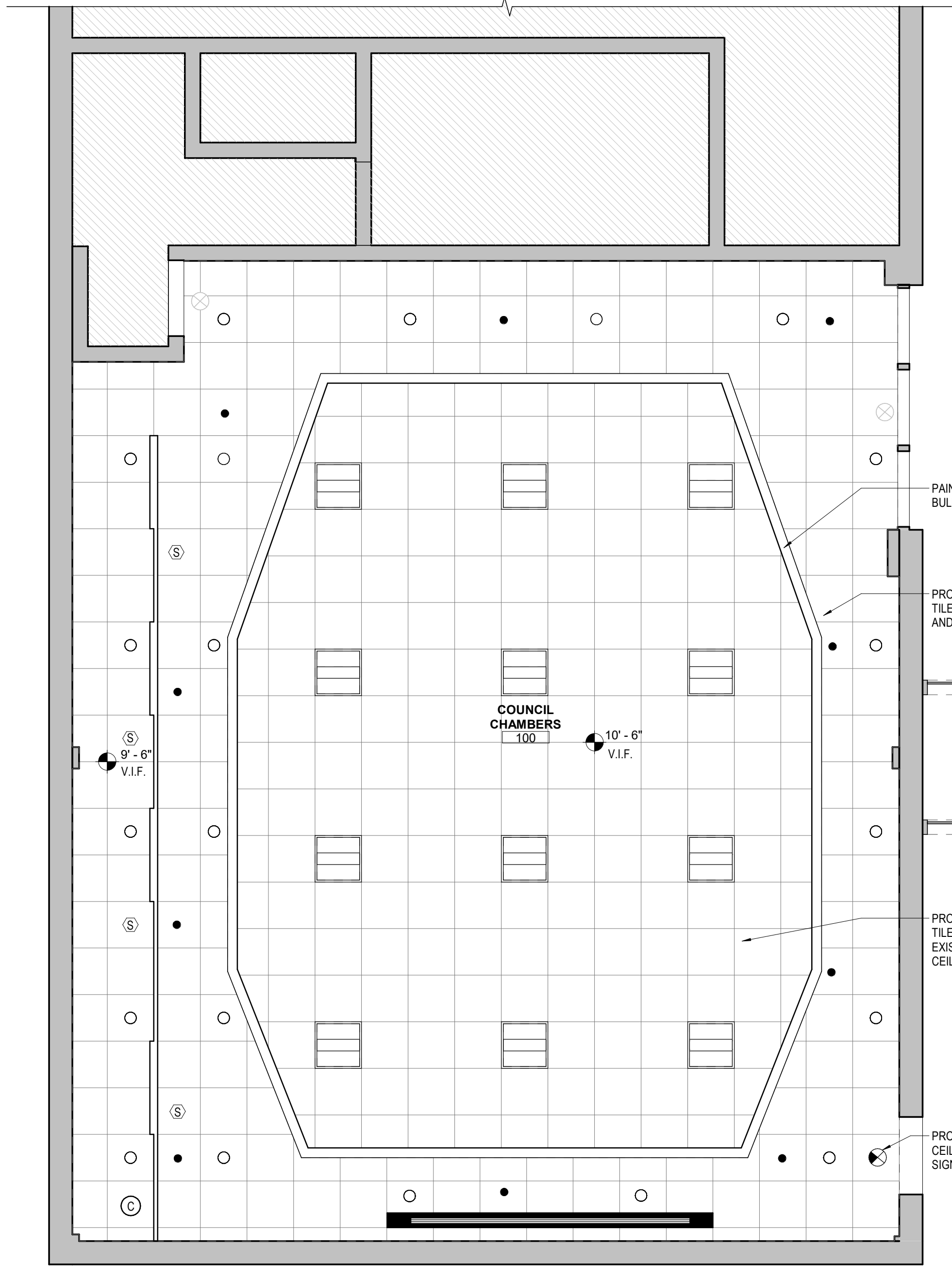
ALL EXISTING SIDE WALL SPRINKLER HEADS ARE TO REMAIN

REMOVE AND DISPOSE OF EXISTING SUSPENDED SLAT WOOD GRID WITH ASSEMBLY, LIGHT FIXTURES, AND PERIMETER WOOD TRIM. PATCH BULKHEAD AS REQUIRED TO RECEIVE NEW PAINT.

EXISTING LINEAR SLOT DIFFUSERS TO REMAIN

EXISTING RECESSED PROJECT SCREEN TO REMAIN

1 DEMO REFLECTED CEILING PLAN
1/4" = 1'-0"



PAINT ALL EXPOSED SIDES OF BULKHEAD (P-2)

PROVIDE AND INSTALL NEW CEILING TILE AND GRID AT SAME LOCATION AND HEIGHT AS EXISTING

PROVIDE AND INSTALL NEW CEILING TILE AND GRID AT SAME HEIGHT AS EXISTING AND CENTERED IN COVE CEILING AS SHOWN

PROVIDE AND INSTALL CEILING MOUNTED EXIT SIGN

2 NEW WORK REFLECTED CEILING PLAN
1/4" = 1'-0"

GENERAL NOTES

1. ALL EXISTING CEILING DEVICES ARE TO REMAIN U.N.O.

LEGEND

	REMOVE AND DISPOSE OF EXISTING LIGHT FIXTURES
	PROVIDE AND INSTALL NEW LED DOWN LIGHT FIXTURES
	PROVIDE AND INSTALL NEW 2X2 LIGHT FIXTURES
	PROVIDE & INSTALL NEW CEILING MOUNTED EXIT SIGN
	EXISTING SPEAKERS TO REMAIN
	EXISTING CAMERAS TO REMAIN
	EXISTING SPRINKLER HEADS TO REMAIN
	ELEVATION TAKEN FROM FINISH FLOOR
	N.I.C.

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ARCHITECTURE

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WWW.JMTARCHITECTURE.COM

SEAL:



PROJECT:

**CITY OF NEWARK
COUNCIL
CHAMBERS
IMPROVEMENTS**

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

PROJECT NO: 20-03026-024

DATE: 12/06/23

SCALE: As indicated

DESIGNED BY: JLH

DRAWN BY: CKM

CHECKED BY: DCH

DRAWING TITLE:
**DEMOLITION AND NEW
WORK REFLECTED
CEILING PLANS**

SHEET NUMBER:

A102

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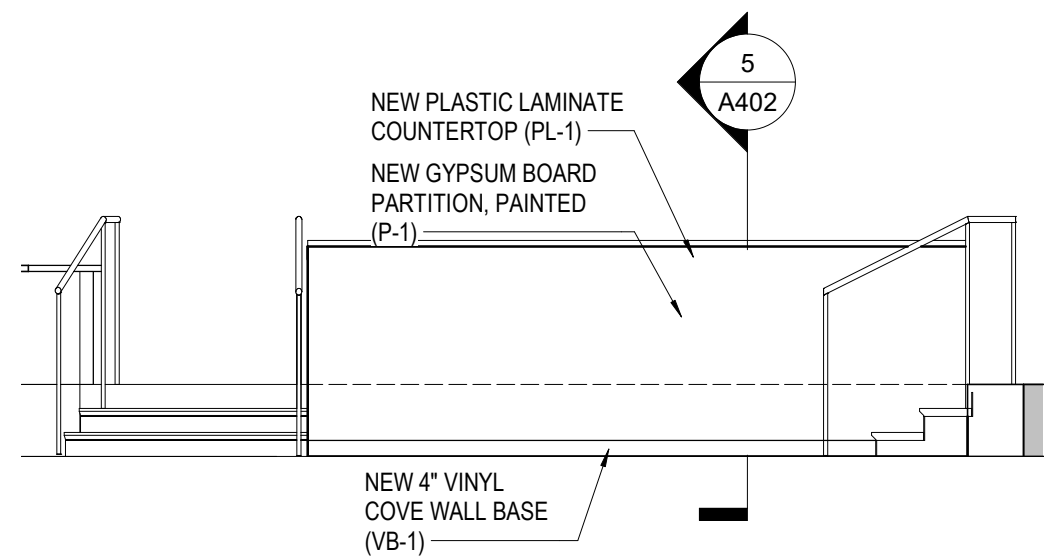
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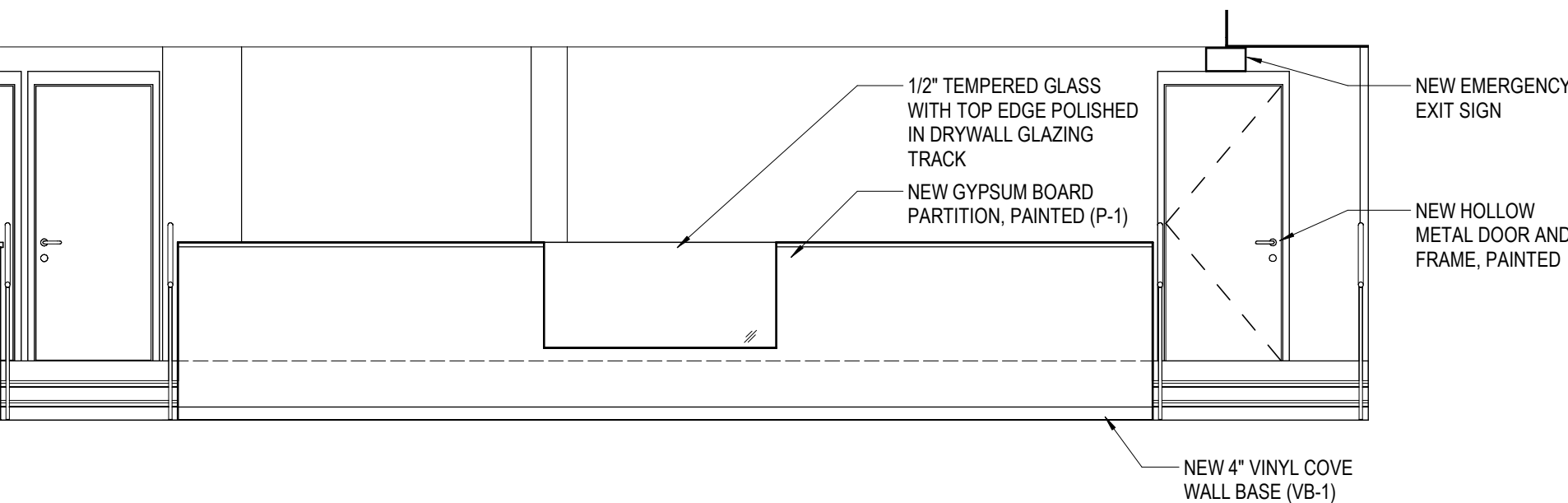
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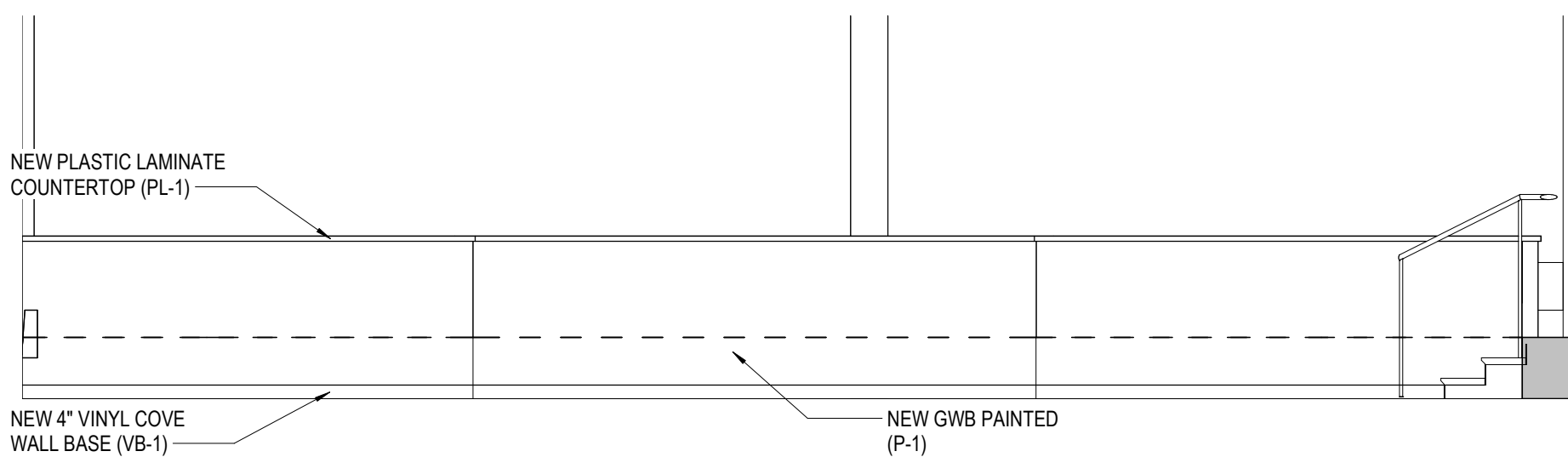
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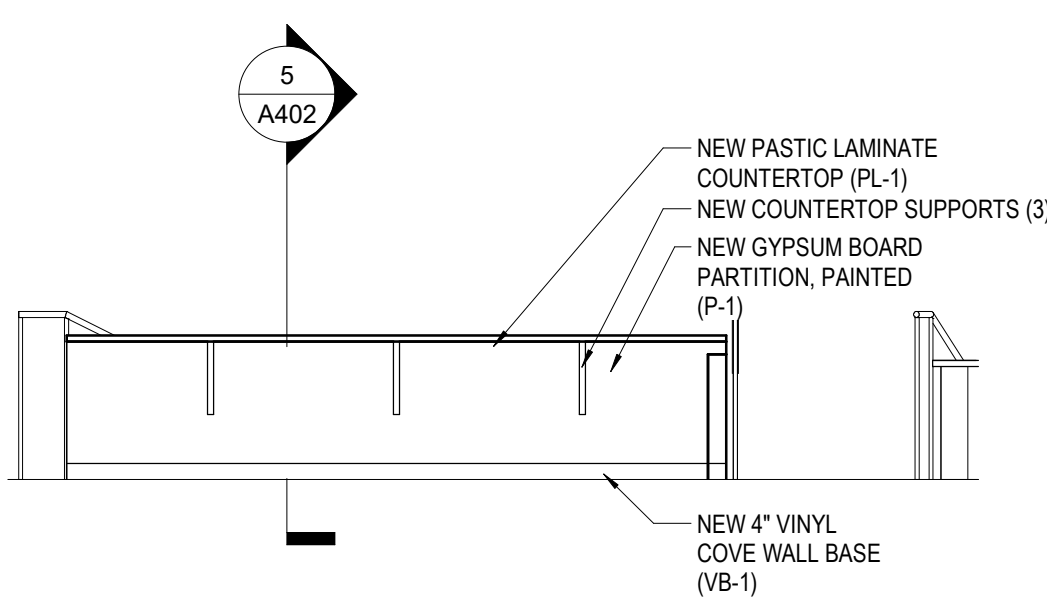
1 NEW COUNTER ELEVATION - NORTH
A401 1/4" = 1'-0"



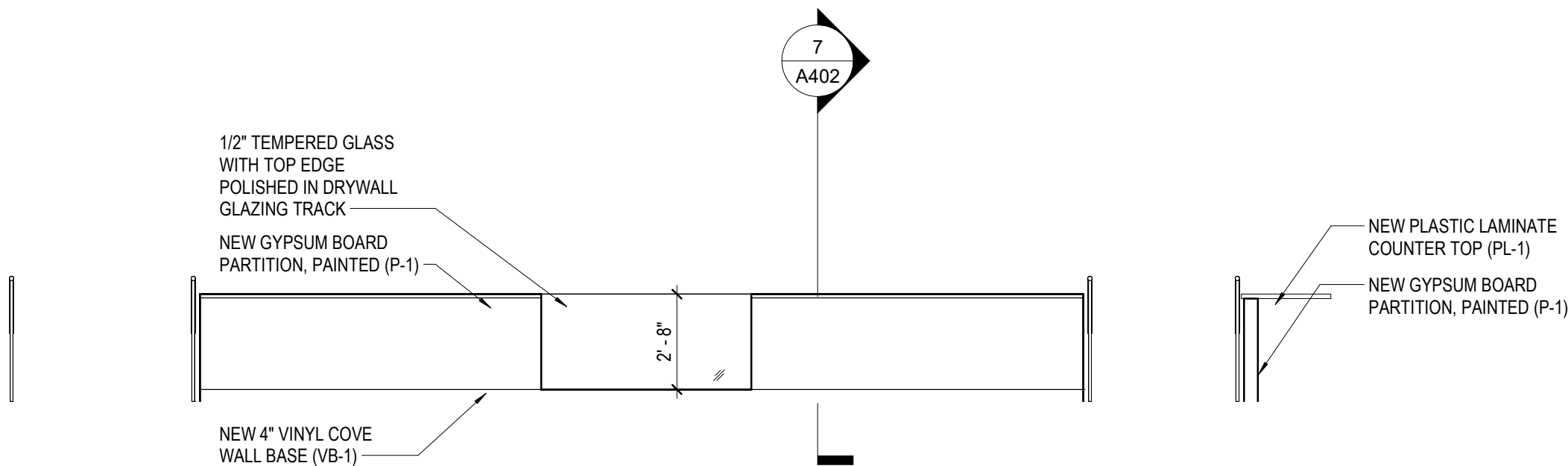
3 NEW PLATFORM ELEVATION - EAST
A401 1/4" = 1'-0"



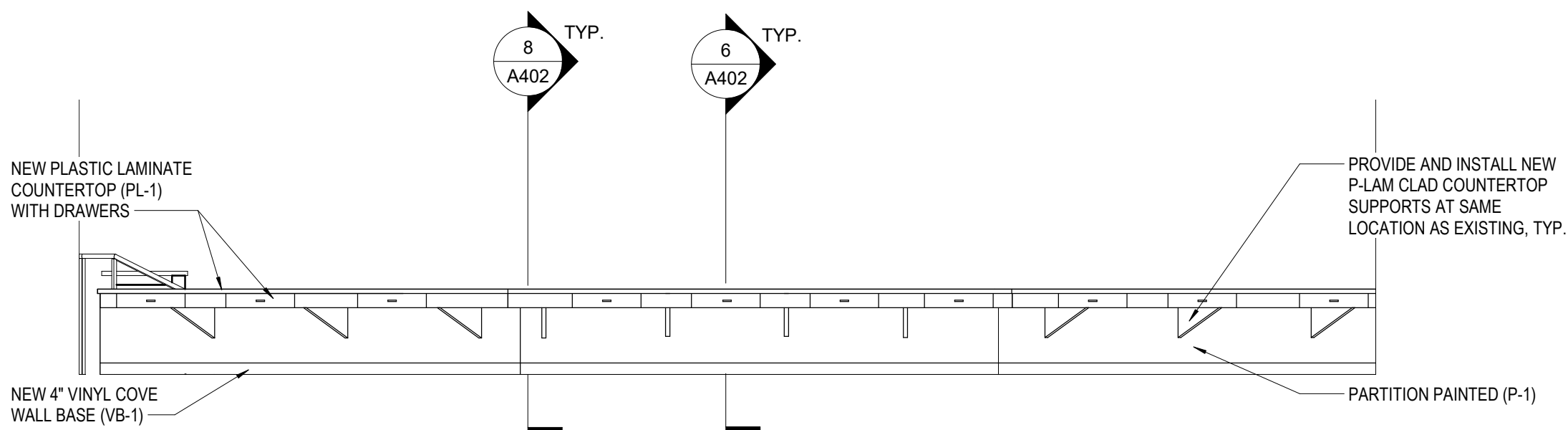
5 NEW COUNTERTOP ELEVATION - WEST
A401 1/4" = 1'-0"



2 NEW COUNTER ELEVATION - SOUTH
A402 1/4" = 1'-0"



4 NEW PLATFORM ELEVATION - WEST
A401 1/4" = 1'-0"



6 NEW COUNTERTOP ELEVATION - EAST
A401 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE AND INSTALL NEW GYPSUM BOARD PARTITIONS AS INDICATED. ALL NEW PARTITIONS SHALL BE PAINTED.
2. PROVIDE AND INSTALL NEW VINYL WALL BASE (TO MATCH EXISTING) AS INDICATED.
3. EXISTING CARPET FLOORING TO REMAIN. CONTRACTOR SHALL PROTECT EXISTING CARPETING FROM DAMAGE.



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SEAL:



PROJECT:

**CITY OF NEWARK
COUNCIL
CHAMBERS
IMPROVEMENTS**

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

MARK	DATE	DESCRIPTION

PROJECT NO: 20-03026-024
DATE: 12/06/23
SCALE: 1/4" = 1'-0"
DESIGNED BY: JLH
DRAWN BY: CKM
CHECKED BY: DCH

DRAWING TITLE:
INTERIOR ELEVATIONS

SHEET NUMBER:

A401



- 
- JMT**
ARCHITECTURE
- JOHNSON, MIRMIRAN & THOMPSON, INC.
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WWW.JMTARCHITECTURE.COM

**CITY OF NEWARK
COUNCIL
CHAMBERS
IMPROVEMENTS**

CITY OF NEWARK

DRAWING TITLE:
ENLARGED PLANS &
SECTIONS

A402

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DESIGN NOTES

DESIGN BASIS:

IBC 2018	INTERNATIONAL BUILDING CODE
ASCE 7-16	MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
ACI 318-14	MANUAL FOR CONCRETE CONSTRUCTION
TMS 402/602-16	BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
AISC 360-10	SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS

PROJECT LOADS:

DEAD LOAD:	SELFWEIGHT
LIVE LOAD:	100PSF
WIND LOAD:	NOT APPLICABLE
SNOW LOAD:	NOT APPLICABLE
SEISMIC DESIGN:	NOT APPLICABLE

GENERAL

- ALL WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS.
- ONCE ON SITE, THE CONTRACTOR SHALL COMPLETE A SURVEY OF THE PROJECT SITE TO VERIFY THE EXISTING CONDITIONS. ANY CONDITIONS FOUND BY THE CONTRACTOR THAT WERE NOT ANTICIPATED ON THE CONTRACT PLANS AND THAT WILL AFFECT THE COST OF THE IMPLEMENTATION OF THE SPECIFIED PROJECT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS, NEW AND EXISTING, BY MEASUREMENTS AT THE JOB SITE. THE CONTRACTOR SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY CONFORMANCE WITH THE DRAWINGS AND TO PERFORM THE WORK PROPERLY.
- LOCATIONS AND QUANTITIES SHOWN ON THESE PLANS ARE APPROXIMATE FOR PRELIMINARY PRICING PURPOSES. ACTUAL FIELD INSTALLED QUANTITIES MAY VARY. CONTRACTOR SHALL VERIFY LOCATIONS AND QUANTITIES WITH ENGINEER PRIOR TO BEGINNING WORK ON ALL PAY ITEMS.
- CONSTRUCTION ACTIVITY DESCRIPTIONS LISTED IN THESE PLANS ARE NOT MEANT TO BE ALL INCLUSIVE, BUT RATHER TO OUTLINE THE GENERAL WORK TASKS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER EXECUTION OF THE WORK AND ADHERENCE TO ALL MANUFACTURER'S RECOMMENDATIONS REGARDING INSTALLATION OF WORK WHEN PROPRIETARY PRODUCTS ARE USED.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE STRUCTURE IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES, SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING, OR TIE DOWNS THAT MIGHT BE NECESSARY.
- THE ENGINEER HAS NO EXPERTISE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER IS NOT ENGAGED IN AND DOES NOT SUPERVISE CONSTRUCTION.

CONTRACTOR RESPONSIBILITIES AND COORDINATION

- THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS FOR SUCCESSFUL COMPLETION OF THIS PROJECT.
- ALL FIELDWORK SHALL BE COORDINATED AND CONTINUOUSLY SUPERVISED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN THE DOCUMENTS AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR SAFETY OF THE SITE AND ALL PERSONS ON THE SITE UNTIL PROJECT IS COMPLETE.
- PROTECT AND KEEP OPERABLE EXISTING SITE FEATURES WHICH ARE NOT TO BE SELECTIVELY DEMOLISHED OR TEMPORARILY REMOVED.
- VIBRATION DURING SELECTIVE DEMOLITION SHALL BE MINIMIZED. CONTRACTOR SHALL COORDINATE SELECTIVE DEMOLITION WORK WITH CITY.
- CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED TESTING FOR QUALITY ASSURANCE.

UTILITIES

- CONTRACTOR IS TO VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY SUBSURFACE OR EXCAVATION WORK.
- PROTECT EXISTING UTILITIES TO REMAIN DURING EXCAVATION, AND CUTTING AND PATCHING, TO PREVENT DAMAGE.
- TAKE ALL PRECAUTIONS NECESSARY TO AVOID CUTTING EXISTING PIPE, CONDUIT OR DUCTWORK SERVING THE BUILDING, UNTIL PROVISIONS HAVE BEEN MADE TO BYPASS THEM. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER.
- DAMAGES: PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OR CONSTRUCTION WORK AT NO COST TO OWNER.
- IF UNANTICIPATED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS WHICH CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE BOTH NATURE AND EXTENT OF THE CONFLICT. SUBMIT REPORT TO OWNER'S REPRESENTATIVE IN WRITTEN, ACCURATE DETAIL. PENDING RECEIPT OF DIRECTIVE FROM OWNERS' REPRESENTATIVE, REARRANGE SCHEDULE AS NECESSARY TO CONTINUE OVERALL JOB PROGRESS WITHOUT DELAY.

EXISTING CONDITIONS

GENERAL CONTRACTOR SHALL FIELD VERIFY EXISTING SIZES, DIMENSIONS, NOTES OR CONDITIONS PRIOR TO ANY DETAILING, OR FABRICATION OF MATERIALS.

DEMOLITION:

- PROTECTION: PROTECT EXISTING CONSTRUCTION TO REMAIN DURING REMOVAL, CUTTING AND PATCHING TO PREVENT DAMAGE.
- CUTTING: CUT EXISTING CONSTRUCTION USING METHODS LEAST LIKELY TO DAMAGE ELEMENTS TO BE RETAINED OR ADJOINING CONSTRUCTION. IN GENERAL, WHERE CUTTING IS REQUIRED, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING. CUT HOLES AND SLOTS NEATLY TO SIZE REQUIRED WITH MINIMUM DISTURBANCE OF ADJACENT SURFACES. TEMPORARILY COVER OPENINGS WHEN NOT IN USE. CUT THROUGH CONCRETE AND MASONRY USING A CUTTING MACHINE SUCH AS CARBORUNDUM SAW OR DIAMOND CORE DRILL.
- CUT-OFF PIPE OR CONDUIT IN WALLS OR PARTITIONS TO BE REMOVED, RELOCATED OR ABANDONED. CUT-OFF PIPE OR CONDUIT IN WALLS OR PARTITIONS TO BE REMOVED. CAP VALVE OR PLUG AND SEAL THE REMAINING PORTION OF PIPE OR CONDUIT TO PREVENT ENTRANCE OF MOISTURE OR OTHER FOREIGN MATTER AFTER BY-PASSING AND CUTTING.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES THAT ARE INVOLVED IN THE DEMOLITION ACTIVITIES AND COORDINATE THEIR REMOVAL OR RELOCATION WITH THE OWNERS REPRESENTATIVE. WORK AT NO COST TO OWNER.

STRUCTURAL STEEL

STRUCTURAL STEEL ANGLES SHALL CONFORM TO ASTM A36 AND SHALL BE HOT DIPPED GALVANIZED. STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53 GR. B. FINISH PER ARCHITECTURAL DRAWINGS.

EXECUTION:

- FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE STEEL AGAINST DISPLACEMENT DURING ERECTION AND TO MAINTAIN IT AGAINST DISPLACEMENT UNTIL COMPLETETIO OF CONSTRUCTION.
- WHERE ANGLES REST ON MASONRY THEY SHALL BEAR A MINIMUM OF 6".
- AFTER FABRICATION, ALL STEEL SHALL BE CLEANED AND FREE OF RUST, LOOSE MILL SCALE, AND OIL.
- CONDITION OF STEEL ON DELIVERY SHALL BE PER THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.

COLD-FORMED STEEL FRAMING

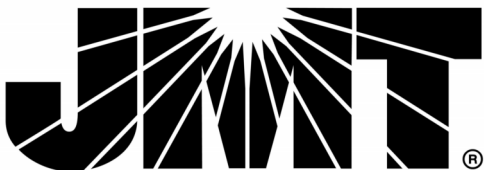
- THE ENGINEERING OF ALL COLD-FORM STEEL FRAMING, INCLUDING THEIR CONNECTIONS AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO AISI'S "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS". REFER TO DESIGN CRITERIA, SPECIFICATION AND CONSTRUCTION DOCUMENTS FOR MINIMUM DESIGN LOADS. SUBMIT SIGNED AND SEALED STRUCTURAL CALCULATIONS, AND SHOP DRAWINGS BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF VIRGINIA FOR APPROVAL PRIOR TO STARTING WORK.
- MEMBER SIZES AND THICKNESS SHOWN ON DRAWINGS HAVE BEEN DETERMINED BASED ON STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) TECHNICAL CATALOG ICBO ER-4943P. THIS INFORMATION IS FOR PRELIMINARY PRICING PURPOSES ONLY.
- COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE FOLLOWING:
 - 33 MILS (20 GA): ASTM A653, MINIMUM YIELD STRESS OF 33 KSI
 - 43 MILS (18 GA): ASTM A653, MINIMUM YIELD STRESS OF 33 KSI
 - 54 MILS (16 GA) & THICKER: ASTM A653, MINIMUM YIELD STRESS OF 50 KSI
 - TRACKS AND BRIDGING: ASTM A653, MINIMUM YIELD STRESS OF 33 KSI
- ALL STUDS, TRACKS, BRIDGING AND ACCESSORIES SHALL HAVE A GALVANIZED COATING OF G60 CONFORMING TO ASTM C955. MEMBERS THAT HAVE PROTECTIVE COATING REMOVED BY WELDING SHALL HAVE THE COATING REPAIRED WITH A ZINC RICH PRIMER.
- SLIP CONNECTIONS SHALL ALLOW FOR A VERTICAL MOVEMENT OF 1 INCH OF THE BASE STRUCTURE. UNLESS NOTED OTHERWISE.
- THE BASE STRUCTURE HAS BEEN DESIGNED ASSUMING THE FOLLOWING PERMITTED COLD-FORM FRAMING ATTACHMENT METHODS:
 - UNLESS NOTED OTHERWISE, SELF-DRILLING SCREWS (TEK SCREWS) SHALL BE #10-16 HWH SCREWS MANUFACTURED BY HILTI USA, OR AN APPROVED EQUIVALENT. WHERE SCREW ATTACHMENTS ARE MADE TO FRAMING COMPONENTS OF DIFFERENT THICKNESSES, THE THINNEST COMPONENT MUST BE PENETRATED FIRST. MAINTAIN A MINIMUM 1/2-INCH DISTANCE FROM EDGE OF COLD-FORM STEEL TO CENTERLINE OF SCREW AND A MINIMUM SPACING OF 1 INCH BETWEEN SCREWS.
 - CONNECTION OF TRACK TO CONCRETE SHALL BE MADE WITH POWDER ACTUATED FASTENERS (PAF) WITH A SHANK DIAMETER OF 0.145 INCH AND A PENETRATION AS SPECIFIED ON THE DRAWINGS (MINIMUM 1"), AS MANUFACTURED BY HILTI USA, OR AN APPROVED EQUIVALENT. FASTENERS SHALL BE SPACED NOT TO EXCEED SPACING OF STUDS. PROVIDE UNIFORM AND LEVEL BEARING SUPPORT FOR THE TRACK.
 - CONNECTION OF TRACK TO STEEL SHALL BE MADE WITH PAF FASTENERS WITH A SHANK DIAMETER OF 0.145 INCH, AS MANUFACTURED BY HILTI USA, OR AN APPROVED EQUIVALENT. FASTENERS SHALL BE SPACED NOT TO EXCEED SPACING OF STUDS.
 - CONNECTION OF TRACK TO GROUT FILLED CMU BLOCK SHALL BE MADE WITH HILTI X-DNI PAF ANCHORS WITH A SHANK DIAMETER OF 0.145 INCH, AS MANUFACTURED BY HILTI USA, OR AN APPROVED EQUIVALENT. FASTENERS SHALL HAVE A MINIMUM PENETRATION DEPTH OF 1" AND A MINIMUM EDGE DISTANCE OF 3".
 - WELDED CONNECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS D1.3 SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES WITH A MINIMUM E60XX ELECTRODE.

STRUCTURAL WOOD & COMPOSITE SHEATING

- APPLICABLE CODES:
 - AMERICAN NATIONAL STANDARDS INSTITUTE/ AMERICAN FOREST & PAPER ASSOCIATION (ANSI/APFA) DOCUMENTS
 - NDS "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
- ALL WOOD FRAMING MATERIALS SHALL BE SOUTHERN YELLOW PINE #2 AND 19% MAX MOISTURE CONTENT OR EQUAL, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONAL LUMBER SHALL BE VISUALLY GRADED IN ACCORDANCE WITH CURRENT W.W.P.A. GRADING RULES. ALL DIMENSIONAL LUMBER SHOWN ON PLANS TO BE S4S SEASONED LUMBER
- WHERE FRAMING HANGERS OR WOOD CONNECTIONS ARE REQUIRED BUT HAVE NOT BEEN SPECIFIED ON THE STRUCTURAL DRAWINGS, PLEASE CONTACT EOR FOR APPROPRIATE WOOD CONNECTOR OR CONNECTION TO UTILIZE.
- ALL DIMENSIONAL LUMBER SIZES INDICATED ON THE PLANS ARE NOMINAL DIMENSIONS AND NOT ACTUAL.
- PRESSURE TREATMENT IS REQUIRED FOR ALL TOE PLATES OR WOOD IN CONTACT WITH CMU OR CONCRETE.
- CONNECTIONS (WHERE USED):
 - TOE NAILING WILL NOT BE PERMITTED.
 - SCREWS: MEET ANSI/ASME B18.6.1 STANDARD
 - AILS: MEET ASTM F1667 STANDARD
 - LAG SCREWS: MEET ANSI/ASME B18.2.1 STANDARD
 - BOLTS: ASTM A307

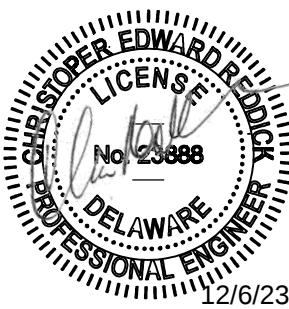
FIRE-RETARDANT-TREATED (FRT) MATERIALS:

- WHERE FIRE-RETARDANT-TREATED MATERIALS ARE INDICATED, MATERIALS SHALL COMPLY WITH REQUIREMENTS HEREIN, THAT ARE ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND WITH FIRE-TEST-RESPONSE CHARACTERISTICS SPECIFIED AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER TEST METHOD INDICATED BY A QUALIFIED TESTING AGENCY.
- FIRE-RETARDANT-TREATED LUMBER AND PLYWOOD BY PRESSURE PROCESS: PRODUCTS WITH A FLAME-SPREAD INDEX OF 25 OR LESS WHEN TESTED ACCORDING TO ASTM E84, AND WITH NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN THE TEST IS EXTENDED AN ADDITIONAL 20 MINUTES, AND WITH THE FLAME FRONT NOT EXTENDING MORE THAN 10.5 FEET BEYOND THE CENTERLINE OF THE BURNERS AT ANY TIME DURING THE TEST.
 - TREATMENT SHALL NOT PROMOTE CORROSION OF METAL FASTENERS.
 - EXTERIOR TYPE: TREATED MATERIALS SHALL COMPLY WITH REQUIREMENTS SPECIFIED ABOVE FOR FIRE-RETARDANT-TREATED LUMBER AND PLYWOOD BY PRESSURE PROCESS AFTER BEING SUBJECTED TO ACCELERATED WEATHERING ACCORDING TO ASTM D2898. USE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
 - INTERIOR TYPE A: TREATED MATERIALS SHALL HAVE A MOISTURE CONTENT OF 28 PERCENT OR LESS WHEN TESTED ACCORDING TO ASTM D3201 AT 92 PERCENT RELATIVE HUMIDITY. USE WHERE EXTERIOR TYPE IS NOT INDICATED.
 - DESIGN VALUE ADJUSTMENT FACTORS: TREATED LUMBER SHALL BE TESTED ACCORDING TO ASTM D5664, AND DESIGN VALUE ADJUSTMENT FACTORS SHALL BE CALCULATED ACCORDING TO ASTM D6841. FOR ENCLOSED ROOF FRAMING, FRAMING IN ATTIC SPACES, AND WHERE HIGH-TEMPERATURE FIRE-RETARDANT TREATMENT IS INDICATED, PROVIDE MATERIAL WITH ADJUSTMENT FACTORS OF NOT LESS THAN 0.85 MODULUS OF ELASTICITY AND 0.75 FOR EXTREME FIBER IN BENDING FOR PROJECT'S CLIMATOLOGICAL ZONE.
- KILN-DRY LUMBER AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
- IDENTIFY FIRE-RETARDANT-TREATED WOOD WITH APPROPRIATE CLASSIFICATION MARKING OF QUALIFIED TESTING AGENCY.
 - FOR EXPOSED LUMBER INDICATED TO RECEIVE A STAINED OR NATURAL FINISH, OMIT MARKING AND PROVIDE CERTIFICATES OF TREATMENT COMPLIANCE ISSUED BY INSPECTION AGENCY.
- FOR EXPOSED ITEMS INDICATED TO RECEIVE A STAINED OR NATURAL FINISH, CHEMICAL FORMULATIONS SHALL NOT BLEED THROUGH, CONTAIN COLORANTS, OR OTHERWISE ADVERSELY AFFECT FINISHES.
- APPLICATION: TREAT ITEMS INDICATED ON DRAWINGS, AND THE FOLLOWING:
 - CONCEALED BLOCKING.



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PROJECT:
**CITY OF NEWARK
COUNCIL
CHAMBERS**

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

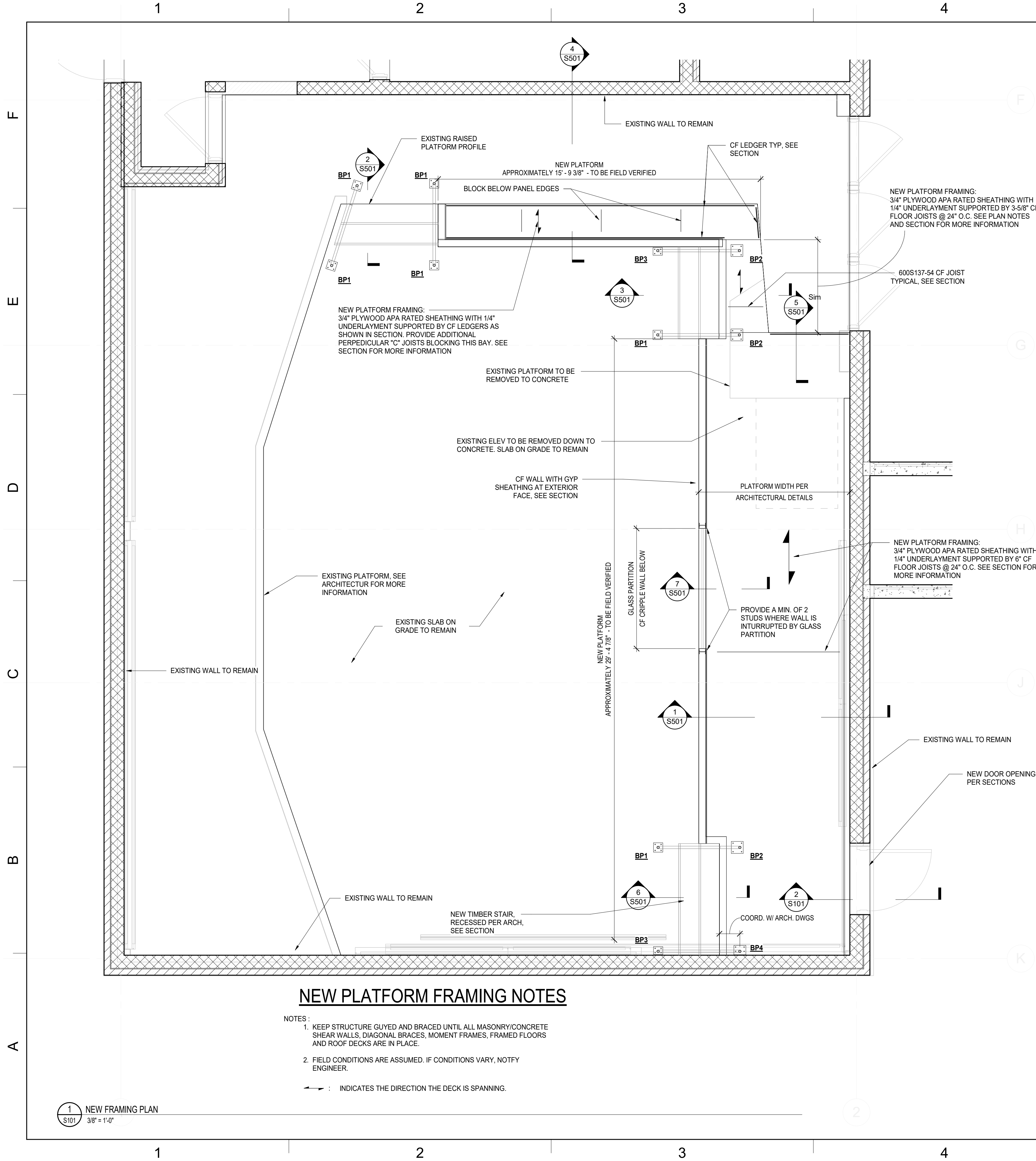
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DATE:	12-6-23	
SCALE:	1/8" = 1'-0"	
DESIGNED BY:	BE	
DRAWN BY:	BE	
CHECKED BY:	CR	

DRAWING TITLE:
GENERAL NOTES

SHEET NUMBER:

S001

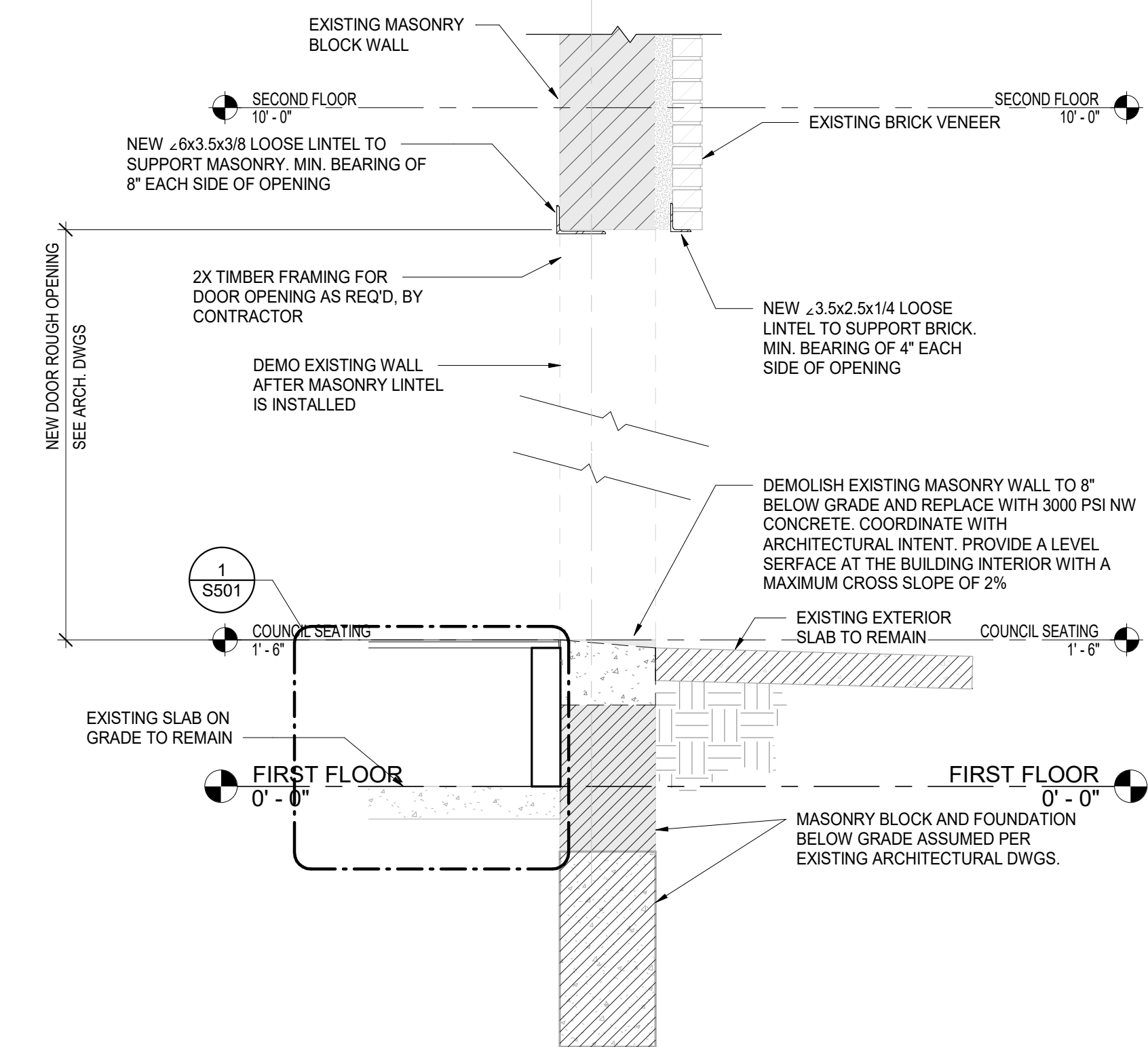
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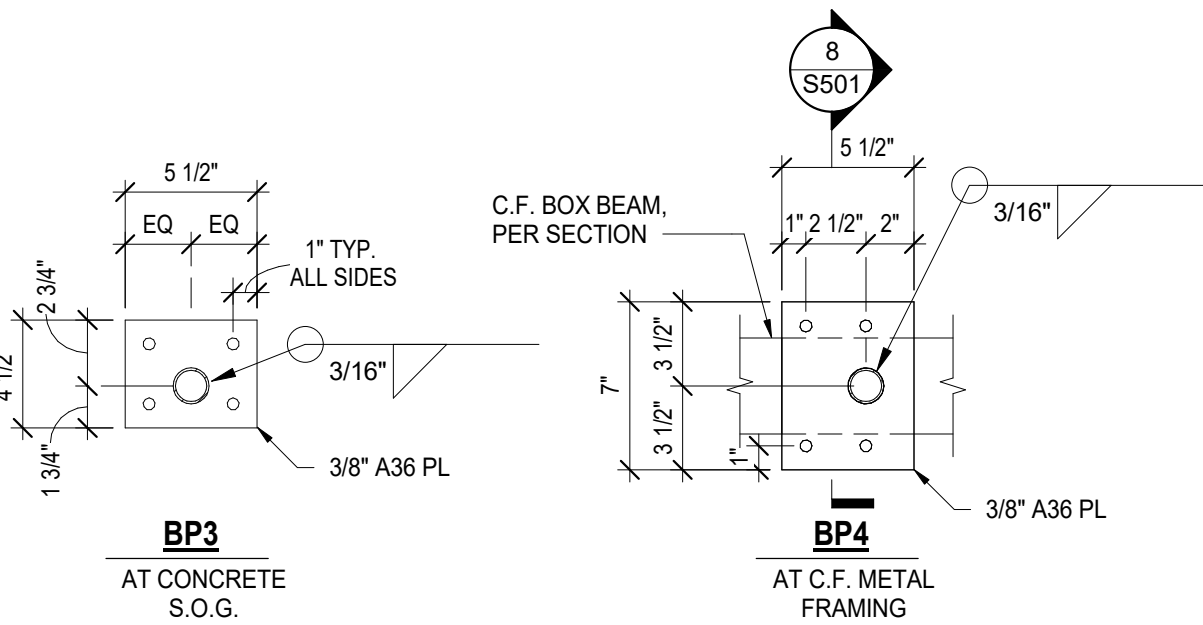
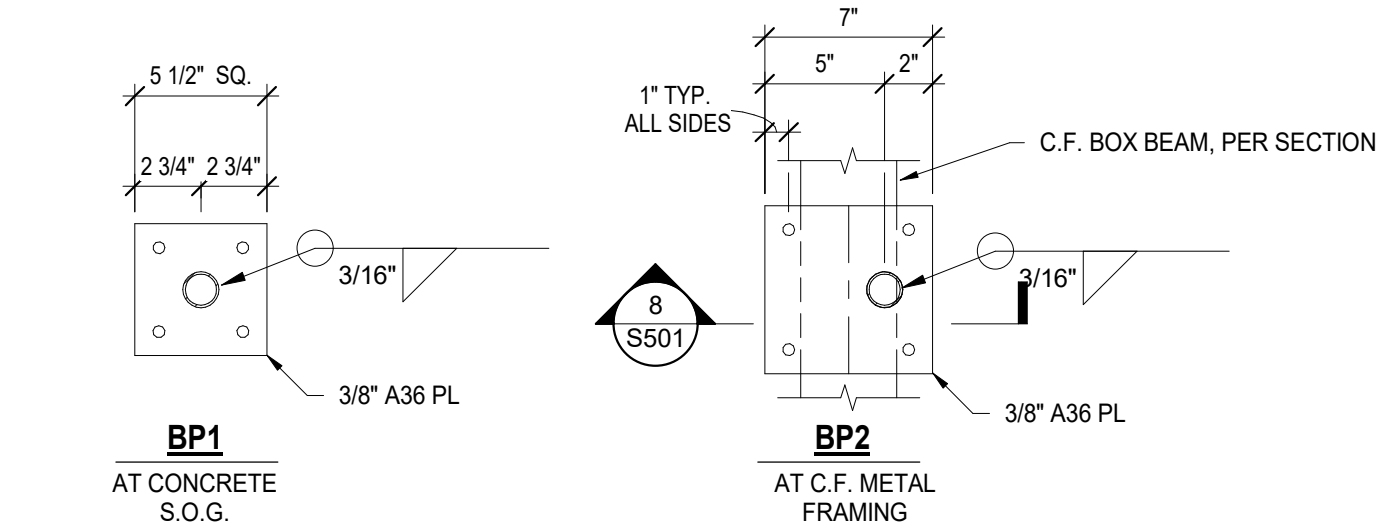
NEW PLATFORM FRAMING NOTES

- NOTES:
- KEEP STRUCTURE GUYED AND BRACED UNTIL ALL MASONRY/CONCRETE SHEAR WALLS, DIAGONAL BRACES, MOMENT FRAMES, FRAMED FLOORS AND ROOF DECKS ARE IN PLACE.
 - FIELD CONDITIONS ARE ASSUMED. IF CONDITIONS VARY, NOTIFY ENGINEER.

→ : INDICATES THE DIRECTION THE DECK IS SPANNING.



2 LINTEL SECTION
3/4\" = 1'-0"



3 STAIR BASE PLATES
1 1/2\" = 1'-0"



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PROJECT NO: 22-03026-024		
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SCALE: As indicated		
DESIGNED BY: BE		
DRAWN BY: RD		
CHECKED BY: CR		

DRAWING TITLE:
**STRUCTURAL FRAMING
PLAN AND SECTIONS**

SHEET NUMBER:

S101

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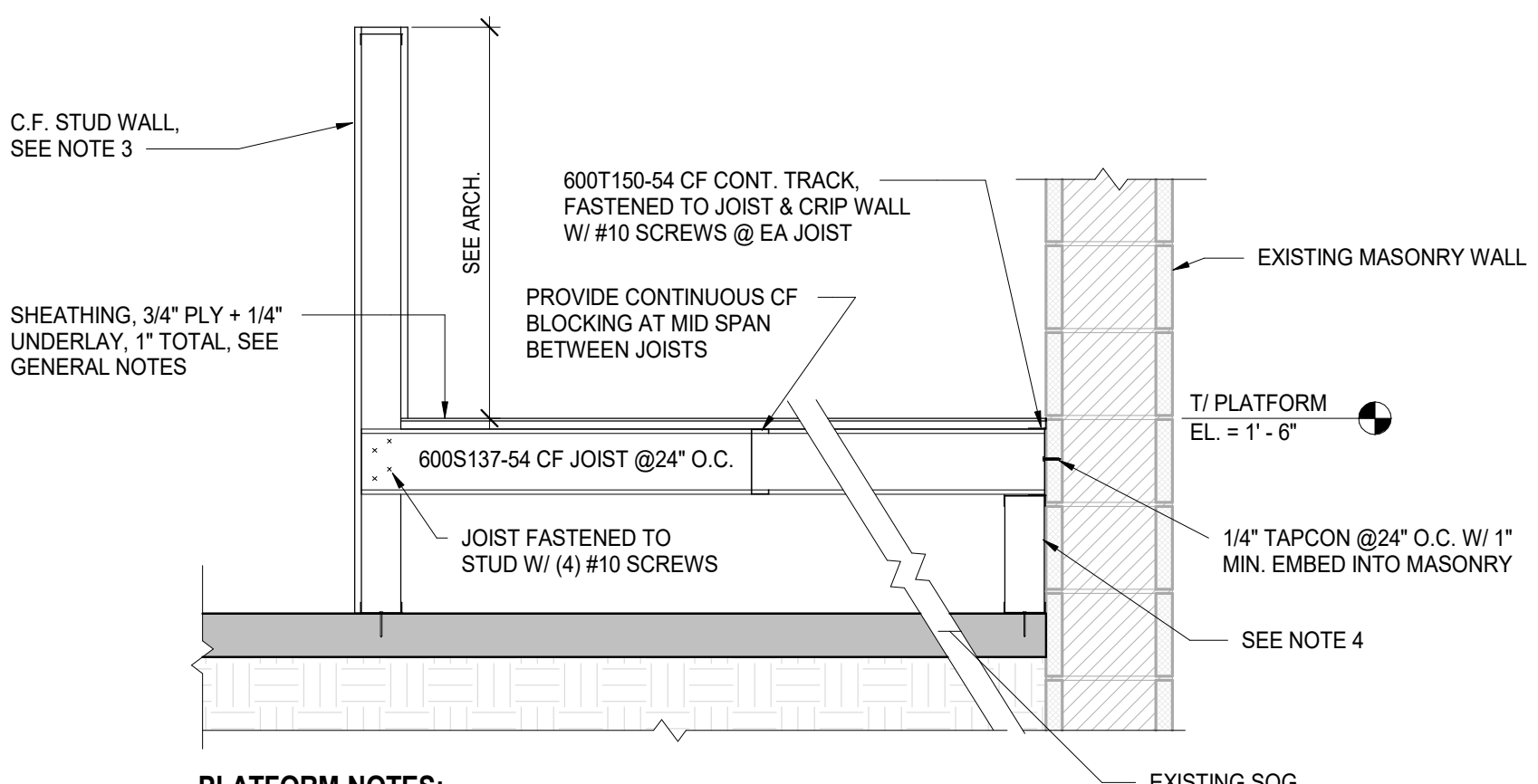
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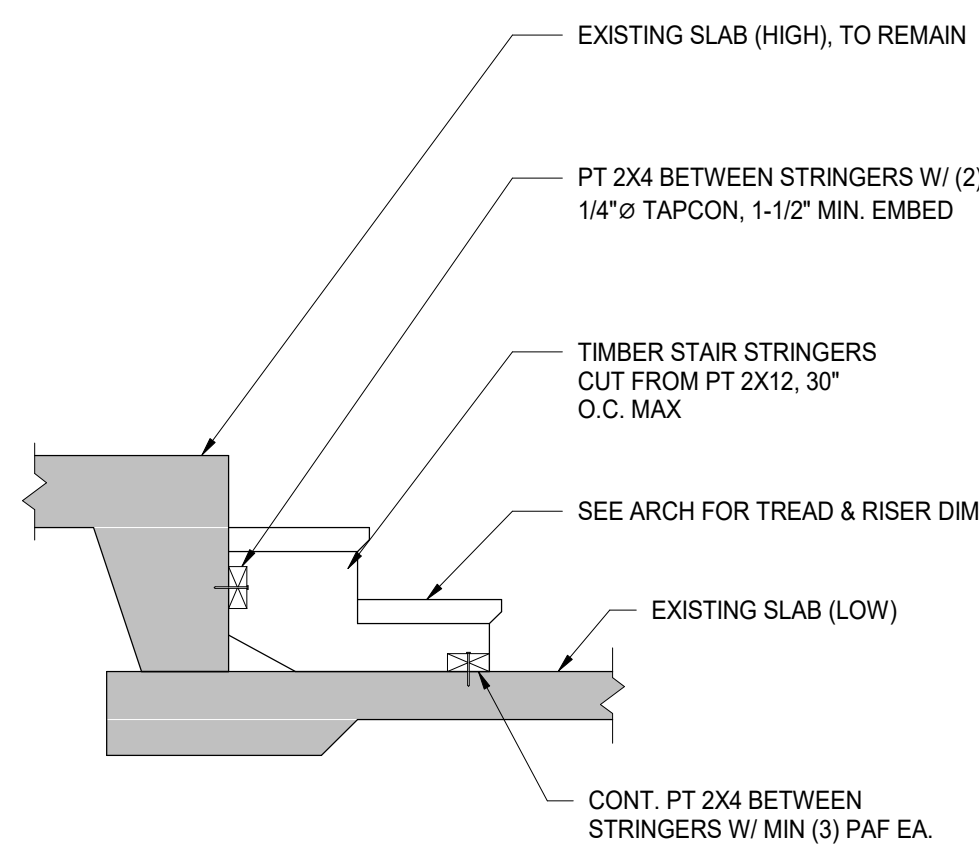
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PLATFORM NOTES:

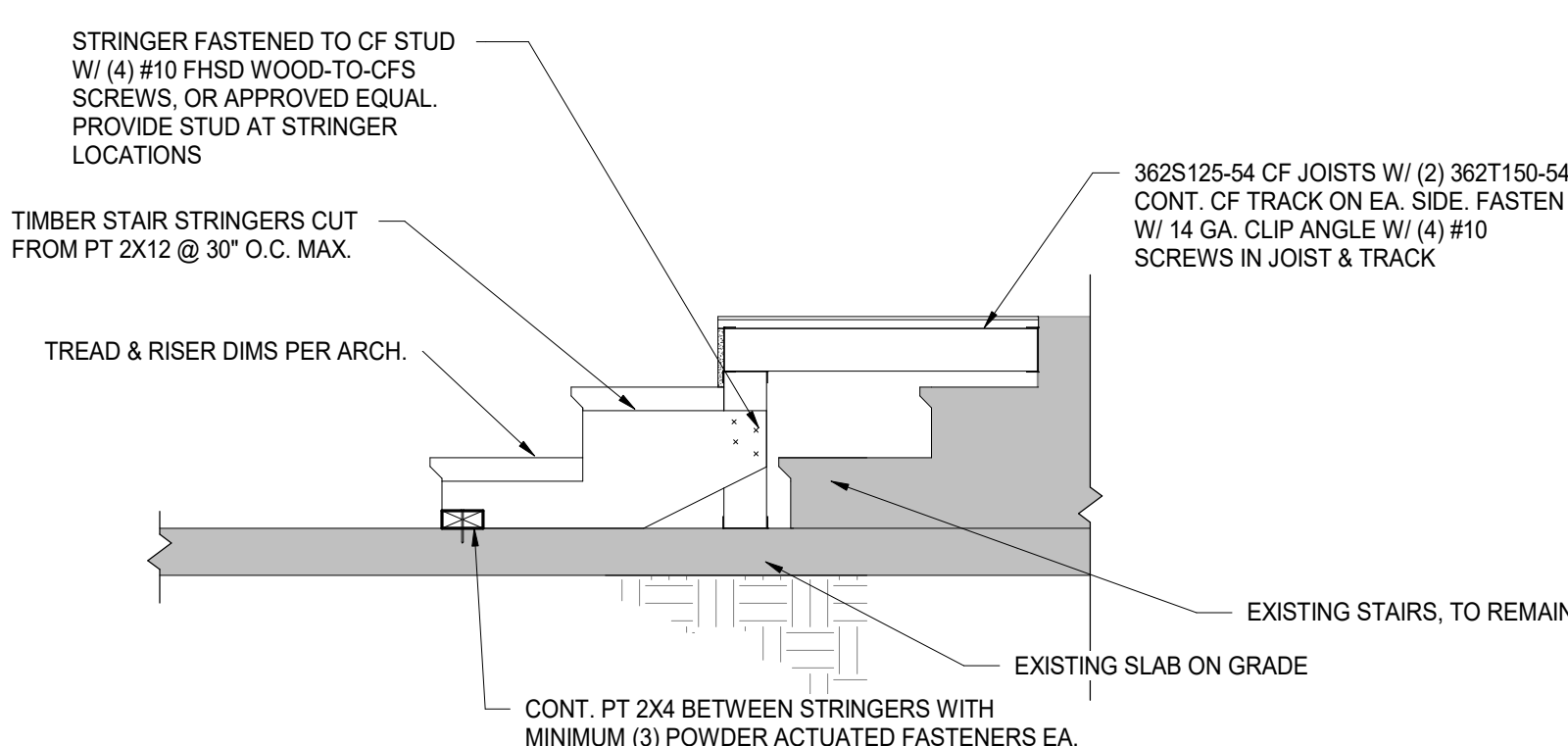
- TRACK TO CONCRETE ATTACHMENT:** 0.145"Ø POWDER ACTIVATED FASTENERS BY 1-1/4" MIN TWO PER MEMBER. EMBED W/ WASHERS. HILTI DOME HEAD NAIL X-ZF 8" FROM EA. END & 16" O.C.
- 1/2" GYP BOARD:** UNBLOCKED, NAILED @ 7" O.C. W/ NO. 11 GARE 1-3/4" LONG.
- CRIPPLE WALL:** THE WALL CONSISTS OF A 362T150-54 CF TRACK TOP AND BOTTOM, WITH THE BOTTOM FASTENED TO THE CONCRETE IN ACCORDANCE WITH NOTE 1. THE STUDS WILL BE 362S125-54 CF STUDS @ 24" O.C. ALL EXTERIOR FACES WILL BE SHEATHED IN 1/2" GYP BOARD, FASTENED IN ACCORDANCE WITH NOTE 2.

1 SECTION THROUGH LARGE PLATFORM
S501 3/4" = 1'-0"



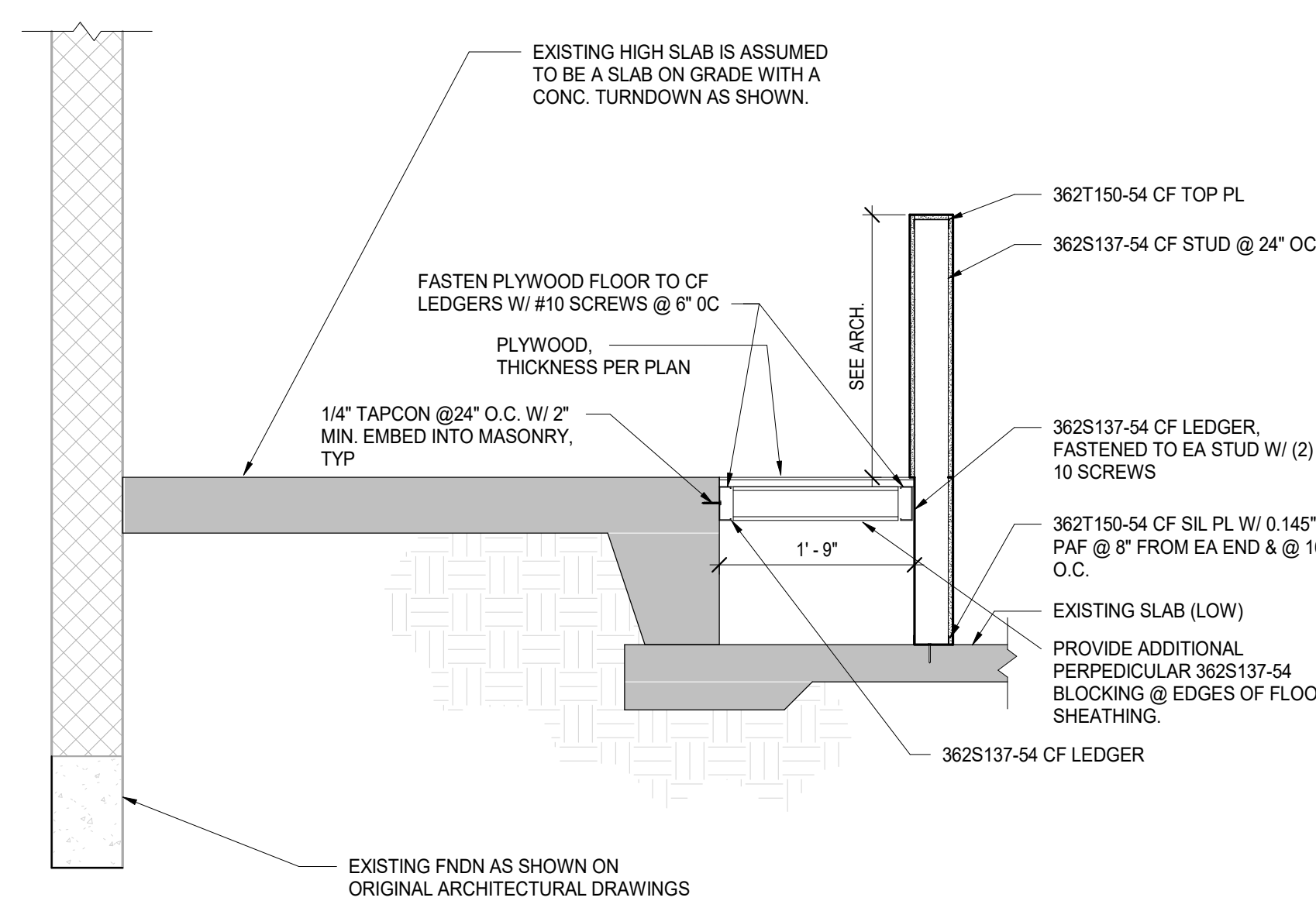
NOTE: ALL TIMBER FRAMING TO BE FIRE-RETARDANT-TREATED. SEE GENERAL NOTES FOR MORE INFORMATION.

2 STAIRS AT SIDE ENTRANCE
S501 3/4" = 1'-0"

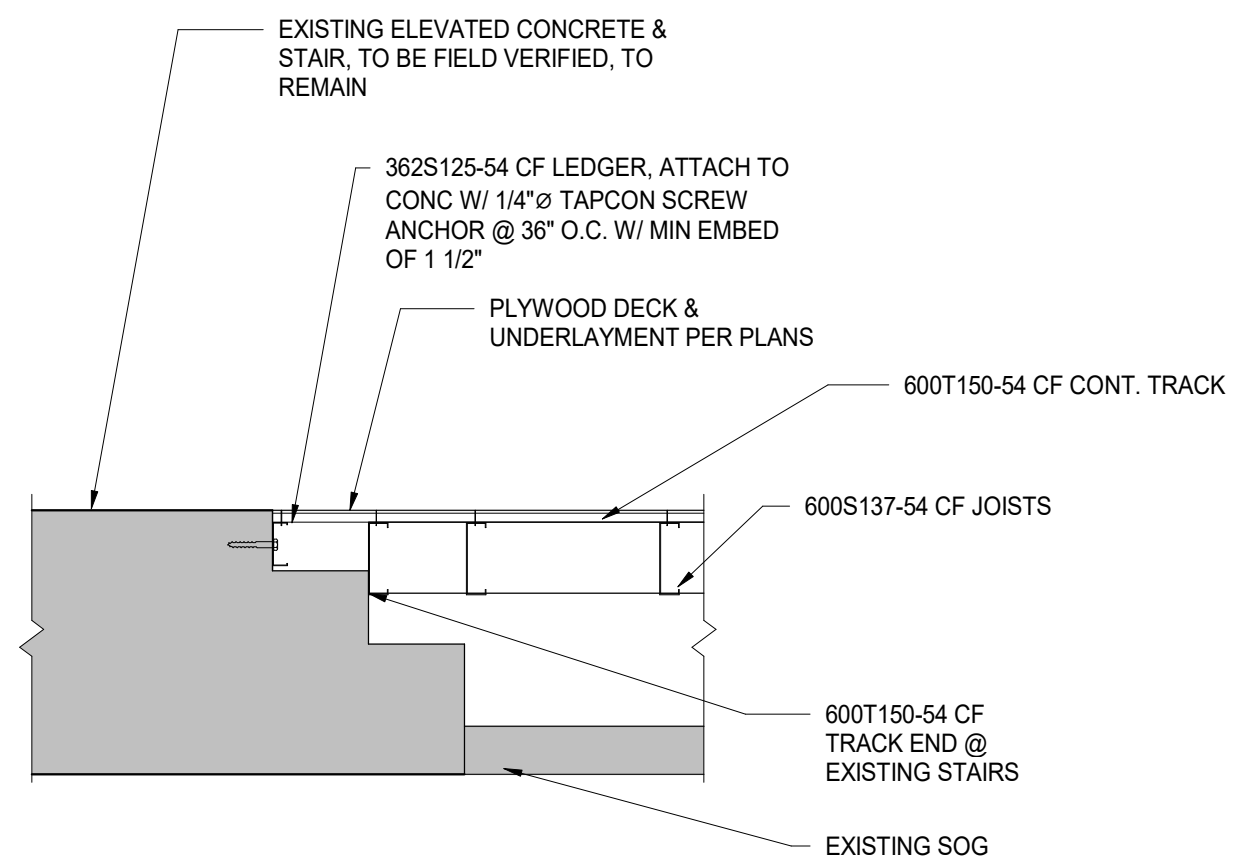


NOTE: ALL TIMBER FRAMING TO BE FIRE-RETARDANT-TREATED. SEE GENERAL NOTES FOR MORE INFORMATION.

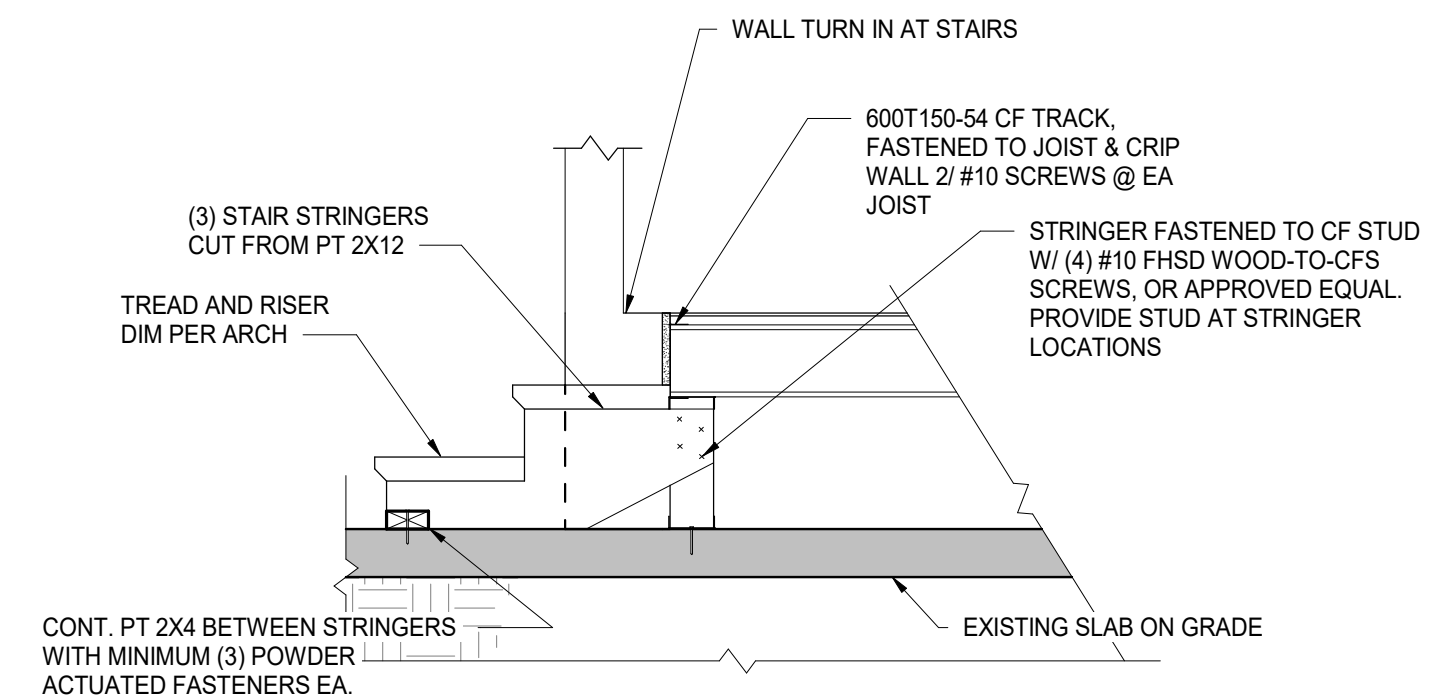
3 STAIRS AT EXISTING ENTRANCE
S501 3/4" = 1'-0"



4 SHORT PLATFORM AT RAISED SECTION
S501 3/4" = 1'-0"

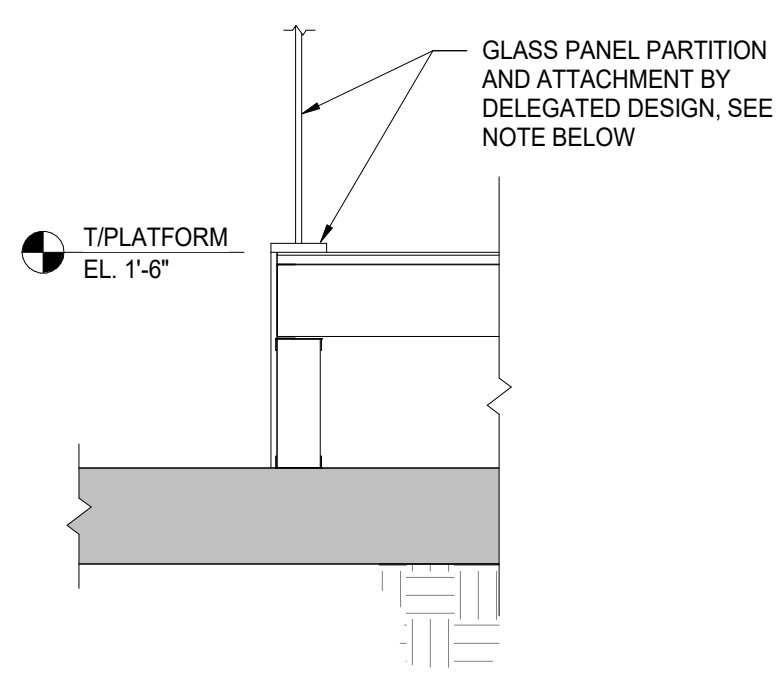


5 PLATFORM AT EXISTING ELEVATED ENTERANCE
S501 3/4" = 1'-0"



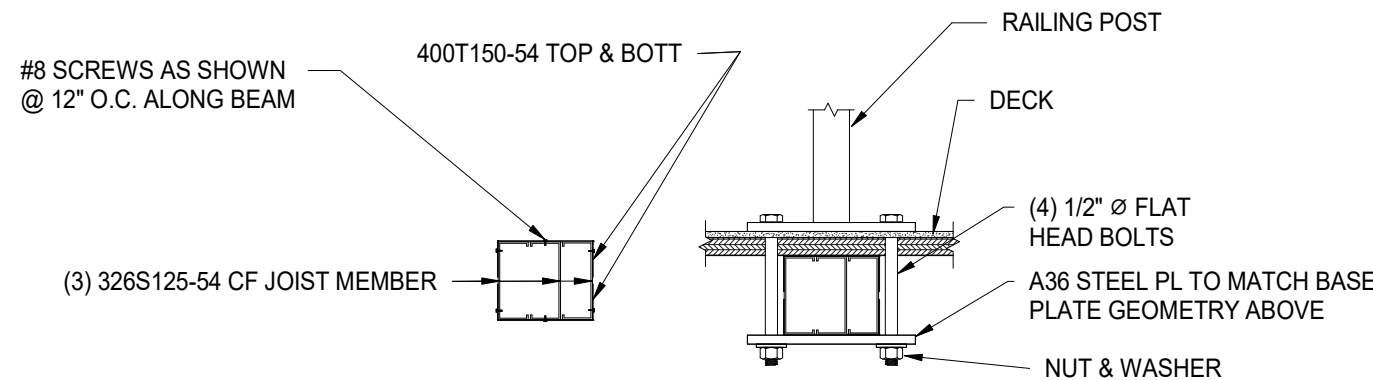
NOTE: FOR FRAMING INFO NOT SHOWN HERE SEE 1 / S501

6 LARGE PLATFORM SECTION AT STAIRS
S501 3/4" = 1'-0"



- GLASS PANEL AND ATTACHMENTS ARE TO BE DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 200 LBS APPLIED IN ANY DIRECTION AT ANY POINT ON THE PARTITION TO PRODUCE THE MAXIMUM LOAD EFFECT.
- THE GLASS PARTITION SHALL BE DESIGNED TO RESIST A LOAD OF 50 LBS/FT APPLIED IN ANY DIRECTION ALONG THE TOP OF PARTITION.
- THIS LOADING REQUIREMENT IS CONSIDERED A LIVE LOAD AND SHALL BE FACTORED AS SUCH.
- ATTACHMENT OF PARTITION IS BY CONTRACTOR/DELEGATED DESIGN

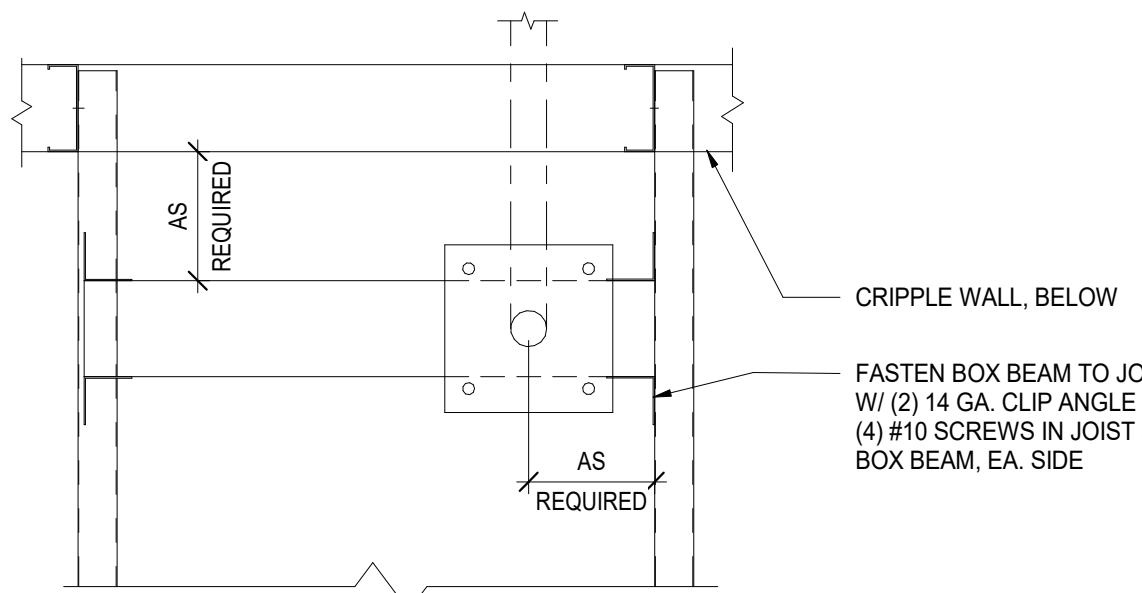
7 GLASS PARTITION DETAIL
S501 3/4" = 1'-0"



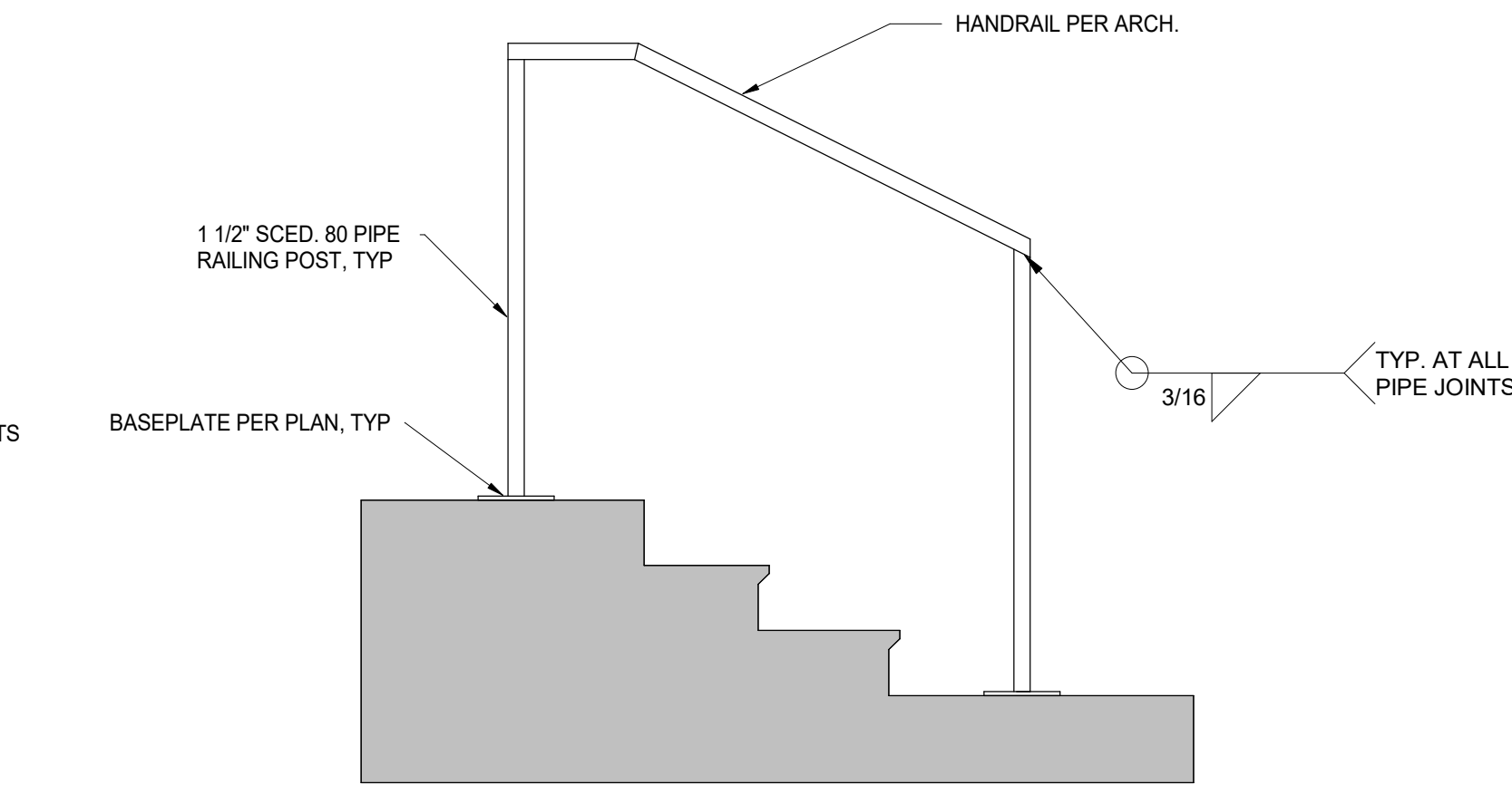
BOX BEAM SECTIONS

NOTE: FOR HANDRAIL BASEPLATE DETAILS, SEE 3 / S101

8 RAILING DETAILS
S501 1 1/2" = 1'-0"



- NOTE:
- LOCATE AS REQUIRED FOR FIELD CONDITIONS.
 - ENSURE BOX BEAM FULLY SUPPORTS HANDRAIL BASEPLATE. IF BASEPLATE STRADDLES CF JOIST, PROVIDE BOX BEAM AT BOTH BAYS OF FRAMING.
- HANDRAIL SUPPORT PLAN VIEW



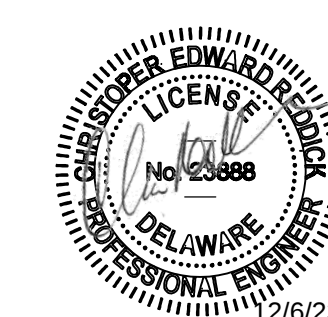
NOTE: SEE ARCH FOR HANDRAIL DIMENSIONS AND LOCATIONS

9 STAIR HANDRAIL
S501 3/4" = 1'-0"



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220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

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MARK	DATE	DESCRIPTION

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DRAWING TITLE:
**STRUCTURAL
SECTIONS & DETAILS**

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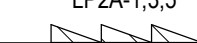
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SYMBOLS LIST	
	DRAWING NOTE
	208/120V PANELBOARD, SURFACE MOUNTED
	CONTROL PANEL/CABINET, SURFACE MOUNTED
	DUPLEX RECEPTACLE - 2P, 3W, 20A, 125A, GROUNDED NEMA 5-20R
	LIGHTING FIXTURE TYPE A ON EMERGENCY CIRCUIT
	SINGLE POLE LIGHT SWITCH, 20A, 120V. "b" DENOTES SWITCH CONTROL "D" DENOTES DIMMING CAPABILITIES
	EXIT SIGN
	2X2' LIGHT FIXTURE
	QUADRUPLEX RECEPTACLE - 2P, 3W, 20A, 125A, GROUNDED NEMA 5-20R
	CEILING MOUNTED JUNCTION BOX
	LIGHTING IDENTIFICATION "X" DENOTES FIXTURE TYPE "b" DENOTES SWITCH CONTROL
	WALL MOUNTED COMBINATION FIRE ALARM AUDIO (SPEAKER) / VISUAL (STROBE) APPLIANCE - CANDELA RATING NOTED ON DRAWINGS - WP DENOTES WEATHER-PROOF TYPE DEVICE
	FIRE ALARM MANUAL PULL STATION
	ADDRESSABLE SMOKE DETECTOR - PHOTOELECTRIC TYPE
	COMMUNICATIONS - VOICE/DATA - OUTLET BOX. PROVIDE BACK BOX. 1" CONDUIT WITH PULL STRING TO IT ROOM. MOUNT 18" AFF UNLESS OTHERWISE NOTED.
NOTE: SOME OF THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE STANDARD AND MAY NOT ALL APPEAR ON THE CONTRACT DRAWINGS.	
ABBREVIATIONS	
3R NEMA 3R RATED DEVICE	JB JUNCTION BOX
A AMPERES	KCMIL THOUSANDS OF CIRCULAR MILS
AC ALTERNATING CURRENT	KVA KILOWATT AMPERES
ADA AMERICANS WITH DISABILITIES ACT	KW KILOWATTS
AFF ABOVE FINISHED FLOOR	LAN LOCAL AREA NETWORK
AFG ABOVE FINISH GRADE	LTG LIGHTING
AHJ AUTHORITY HAVING JURISDICTION	LPMC LIQUID TIGHT FLEXIBLE METAL CONDUIT
AIC AMPERE INTERRUPTING CAPACITY	LV LOW VOLTAGE
AL ALUMINUM	MC METAL CLAD CABLE
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	MCB MAIN CIRCUIT BREAKER
ARCH ARCHITECT	MISC MISCELLANEOUS
AWG AMERICAN WIRE GAUGE	MLO MAIN LUGS ONLY
BLDG BUILDING	MTD MOUNTED
C CONDUIT	N NEUTRAL
CAB CABINET	NC NORMALLY CLOSED
CAT CATEGORY	NEC NATIONAL ELECTRIC CODE
CB CIRCUIT BREAKER	NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CKT CIRCUIT	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
CLG CEILING	NIC NOT IN CONTRACT
COL COLUMN	NO NORMALLY OPEN OR NUMBER
CT CURRENT TRANSFORMER	NTS NOT TO SCALE
CU COPPER	P POLE
DC DIRECT CURRENT	PF POWER FACTOR
DISC DISCONNECT	PNL PANEL
DIST DISTRIBUTION	PH PHASE
DWG DRAWING	PVC POLYVINYL CHLORIDE
EC ELECTRICAL CONTRACTOR	QTY QUANTITY
EG EQUIPMENT GROUND	REC RECEPTACLE
ELEC ELECTRICAL	REQD REQUIRED
EM EMERGENCY	RM ROOM
EMT ELECTRICAL METALLIC TUBING	RMC RIGID METAL CONDUIT
ETR EXISTING TO REMAIN	SW SWITCH
EX EXISTING	SYM SYMMETRICAL
F FUSE	TEL TELEPHONE
FA FIRE ALARM	TYP TYPICAL
FACP FIRE ALARM CONTROL PANEL	UG UNDERGROUND OR UNDERGRADE
FLA FULL LOAD AMPERES	UL UNDERWRITERS LABORATORIES
FMC FLEXIBLE METAL CONDUIT	V VOLT
FT FEET	VA VOLT-AMPERE
GND, G GROUND OR GROUNDING	W WATT
GFI GROUND FAULT INTERRUPTER	WP WEATHER PROOF
GFCI GROUND FAULT CIRCUIT INTERRUPTER	WFM TRANSFORMER
GRC GALVANIZED RIGID METAL CONDUIT	XFMR DELTA
HZ HERTZ	Y WYE
IEEE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	Ø PHASE
IMC INTERMEDIATE METAL CONDUIT	

WIRING LEGEND

	HOMERUN TO PANEL "LP2A"; CIRCUITS #1,3,5 (VIA 20A-1P C/B'S). PROVIDE INSULATED GROUND CONDUCTOR IN ACCORDANCE WITH SPECIFICATIONS. NUMBER OF CIRCUITS INDICATED BY QUANTITY OF ARROW HEADS.
	HASH MARKS INDICATE QUANTITY OF #12 AWG COPPER CONDUCTORS IN CONDUIT. WHEN NO HASH MARKS ARE INDICATED, CONDUIT SHALL CONTAIN (2)#12 WIRES AND (1)#12 GROUND WIRE. ASSUME 3/4" DIAMETER CONDUIT UNLESS NOTED OTHERWISE. EXAMPLE SHOWN AT LEFT INDICATES 2 HOT, 2 NEUTRAL (LONG LINES), AND 1 GROUND WIRES.
	CONCEALED CONDUIT AND/OR WIRING
	BELOW GRADE CONDUIT AND/OR WIRING
	CIRCUITRY TURNING UP
	CIRCUITRY TURNING DOWN

ELECTRICAL MOUNTING HEIGHTS

CENTER ABOVE DOOR MAX 8'-6"		EXIT LIGHT. [PROVIDE PENDANT WHERE HUNG CEILING OR STRUCTURE EXCEEDS 8'-6" AFF.]
6'-6"		TOP OF FLUSH AND SURFACE MOUNTED ELECTRICAL LIGHTING OR POWER PANELBOARDS.
6'-0"		TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETIC STARTERS, CONTACTORS, VFCs.
4'-0"		WALL-MOUNTED ELECTRICAL DEVICE LIGHTING SWITCHES, DIMMERS, MANUAL MOTOR STARTERS, G.F.C.I. OUTLET IN TOILET ROOMS, 48" TO TOP
1'-6"		ELECTRICAL RECEPTACLES. 18" TO CENTER.
0'-0"		FINISHED FLOOR

MOUNTING NOTES:

- THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.
- LOCATION AND INSTALLATION HEIGHT OF ALL WALL DEVICES TO BE COORDINATE WITH MILLWORKS IN ALL LOCATIONS.
- RECESSED OUTLETS IN MASONRY CONSTRUCTION THE ABOVE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.

GENERAL NOTES

- THE SCOPE OF WORK CONSISTS OF FURNISHING AND INSTALLING OF A COMPLETE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. THE CONTRACTOR SHALL PROVIDE SUPERVISION, LABOR, MATERIALS, EQUIPMENT, MACHINERY, ADDITIONAL DESIGN AND ALL INCIDENTALS NECESSARY TO COMPLETE THE ELECTRICAL SYSTEM. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE NUMBER OF ITEMS OF EQUIPMENT AS INDICATED ON THE DRAWINGS AND/OR AS REQUIRED FOR A COMPLETE SYSTEM. COORDINATE WORK TO BE PERFORMED OR INSTALLED BY OTHERS AFFECTING ELECTRICAL WORK AND PROVIDE AND INSTALL ALL NECESSARY ANCHORS, SLEEVES, HANGERS, ACCESSORIES, ETC. FOR ATTACHING OR CONNECTING ELECTRICAL WORK TO RELATED WORK OF OTHER TRADES. ALL WORK SHALL BE PERFORMED BY A QUALIFIED ELECTRICAL CONTRACTOR LICENSED IN THE STATE OF DELAWARE THAT HAS PREVIOUSLY PERFORMED WORK OF THIS SIZE AND TYPE.
- PERFORM WORK AS REQUIRED BY CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION. INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
 - THE 2020 VERSION OF N.E.C., AND LOCAL N.E.C. AMENDMENTS.
 - ALL LOCAL CODES.
 - NFPA 72 AND THE LATEST VERSION OF THE LOCALLY RECOGNIZED BUILDING CODE.
 - THE AMERICANS WITH DISABILITIES ACT (ADA).
 - THE 2021 IECC CODE.
- MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CBM APPROVED FOR INTENDED SERVICE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND STATE ELECTRICAL CODE.
- PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE IN THE BID ALL MATERIAL, LABOR AND ALL INCIDENTALS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY CALLED FOR OR NOT. ALL ERROR, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS BY THE CONTRACTOR. THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE VISIT BY THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN AT THE SITE FOR THE OWNER ONE COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA, APPROVED SHOP OR SETTING DRAWINGS, CHANGE ORDERS AND OTHER MODIFICATIONS IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES AS THEY OCCUR DURING CONSTRUCTION. THESE SHALL BE AVAILABLE TO THE ARCHITECT/ENGINEER, THE OWNER, THE PROJECT INSPECTOR, THE OWNER'S OTHER INSPECTORS AND TO THE OWNER'S TESTING PERSONNEL. THE DRAWINGS SHALL BE NEATLY AND CLEARLY MARKED IN COLOR DURING CONSTRUCTION TO RECORD ALL VARIATIONS MADE DURING CONSTRUCTION. THE REPRESENTATION OF SUCH VARIATIONS SHALL INCLUDE SUCH SUPPLEMENTARY NOTES, SYMBOLS, LEGENDS, AND DETAILS AS MAY BE NECESSARY TO CLEARLY SHOW THE AS-BUILT CONSTRUCTION. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL DELIVER TO THE ARCHITECT/ENGINEER, ONE COMPLETE SET OF "AS-BUILT DRAWINGS"
- ALL WORKMANSHIP, MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS AFTER ACCEPTANCE OF AREA BY OWNER. REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER DURING THE GUARANTEE PERIOD. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER.
- SUBMIT GUARANTEE TO CONTRACT OFFICER BEFORE FINAL PAYMENT. STATEMENT OF GUARANTEE REQUIREMENTS SHALL NOT BE INTERPRETED TO LIMIT OWNER'S RIGHTS UNDER LAW AND THIS CONTRACT.
- ADDRESS QUESTIONS REGARDING DRAWINGS TO ENGINEER IN WRITING BEFORE AWARD OF CONTRACT. OTHERWISE, ENGINEER INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.
- THE CONSTRUCTION ADMINISTRATION PHASE SERVICES ARE INTENDED TO BENEFIT THE CLIENT ONLY. SERVICES RENDERED BY ENGINEER DO NOT RELIEVE CONTRACTOR FROM OBLIGATIONS UNDER THE CONSTRUCTION DOCUMENTS. ENGINEER DOES NOT HAVE AUTHORITY TO SUPERVISE, DIRECT OR CONTROL CONTRACTOR, AND IS NOT RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION OR FOR SAFETY PROGRAMS OR PRECAUTIONS DURING CONSTRUCTION. NOR IS ENGINEER RESPONSIBLE FOR CONTRACTORS FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS OR APPLICABLE LAWS OR CODES.
- ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR HIS AUTHORIZED REPRESENTATIVE AND SHALL BE PERFORMED IN ACCORDANCE WITH ALL BUILDING RULES AND REGULATIONS AS PROVIDED BY THE BUILDING OWNER.
- CONTROL/POWER WIRING REQUIRED BUT NOT SHOWN FOR, AND NOT LIMITED TO, THERMOSTATS, CONTROLLERS, VARIABLE FREQUENCY DRIVE CONTROLS, EQUIPMENT MANUFACTURER CONTROL PANELS, DAMPER MOTORS, CONTROL MOTORS, VALVES, SENSING DEVICES (TEMPERATURE, PRESSURE, HUMIDITY, LEVEL, FLOW, ON-OFF, FIRE ALARM DEVICES) SHALL BE SUPPLIED AND INSTALLED TO PROVIDE A COMPLETE AND USABLE FACILITY AS SPECIFIED. CONTRACTOR TO COORDINATE WITH MECHANICAL DIVISION TO PROVIDE CONTROL/POWER WIRING FOR THESE DEVICES AS REQUIRED.
- ALL CIRCUITRY RUNS INDICATED ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE IN THE FIELD THE MOST SUITABLE ROUTES. THE CONTRACTOR SHALL PROVIDE "AS-BUILT" DOCUMENTATION OF ALL CIRCUITRY RUNS.
- DAMAGE TO EXISTING FACILITIES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- REPAIR AND PATCH ANY DISTURBED AREA TO MATCH EXISTING CONDITIONS.
- PROVIDE TEMPORARY POWER AND LIGHTING FOR ALL TRADES AND REQUIRED TO COMPLETE THE PROJECT. ALL TEMPORARY AND INTERIM EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, NFPA 70. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THIS REQUIREMENT WITH ALL OTHER TRADES AND INCLUDING ALL ASSOCIATED COST IN BID PRICE.
- PROVIDE FIRE SEALANT FOR PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS TO MAINTAIN THE APPLICABLE FIRE RATING. ALL WALL PENETRATIONS SHALL BE A MINIMUM OF ONE HOUR FIRE RATED. ALL FIREPROOFING FOR ELECTRICAL PENETRATIONS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

- REFERENCES
 - EXAMINE DRAWINGS AND OTHER SECTIONS OF SPECIFICATIONS FOR REQUIREMENTS THAT AFFECT WORK OF THIS SECTION.
 - WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN TO "FURNISH AND INSTALL COMPLETE AND READY FOR USE." CONTRACTOR SHALL OVERRIDE ALL TESTING AND INSTRUCTION REQUIRED FOR OPERATION AND MAINTENANCE OF EQUIPMENT AND SYSTEM BY OWNER UNLESS OTHERWISE NOTED.
 - PERFORM WORK AND PROVIDE MATERIAL AND EQUIPMENT AS SHOWN ON DRAWINGS AND AS SPECIFIED OR INDICATED IN THIS SECTION OF THE SPECIFICATIONS. COMPLETELY COORDINATE WORK OF THIS SECTION WITH WORK OF OTHER TRADES AND PROVIDE A COMPLETE AND FULLY FUNCTIONAL INSTALLATION. DRAWINGS AND SPECIFICATIONS FORM COMPLEMENTARY REQUIREMENTS; PROVIDE WORK SPECIFIED & NOT SHOWN, AND WORK SHOWN AND NOT SPECIFIED AS THOUGH EXPLICITLY REQUIRED BY BOTH. ALTHOUGH WORK IS NOT SPECIFICALLY SHOWN OR SPECIFIED, PROVIDE SUPPLEMENTARY OR MISCELLANEOUS ITEMS, APPURTENANCES, DEVICES AND MATERIALS OBVIOUSLY NECESSARY FOR A SOUND, SECURE AND COMPLETE INSTALLATION. REMOVE ALL DEBRIS CAUSED BY CONTRACTORS WORK.
 - DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN CONTRACT. IT IS NOT INTENDED TO SPECIFY OR TO SHOW EVERY OFFSET, FITTING OR COMPONENT; HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFIED AS NECESSARY TO MAKE INSTALLATION COMPLETE AND OPERATIONAL.
 - GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES (IF REQUIRED), PAY FEES AND BACK CHARGES AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
 - AS WORK PROGRESSES AND FOR DURATION OF PROJECT, MAINTAIN COMPLETE AND SEPARATE SET OF PRINTS OF CONTRACT DRAWINGS AT JOB SITE AT ALL TIMES. RECORD WORK COMPLETED AND ALL CHANGES FROM ORIGINAL CONTRACT DRAWINGS CLEARLY AND ACCURATELY INCLUDING WORK INSTALLED AS A MODIFICATION OR ADDITION TO THE ORIGINAL DESIGN.
 - WORK SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO THE FOLLOWING:
 - CONDUIT AND RACEWAYS.
 - WIRE AND CABLE.
 - BRANCH CIRCUIT WIRING.
 - REMOVE, EXTEND, ALTER AND RECONNECT EXISTING CONDUITS AS DIRECTED BY ENGINEERING. RECONNECT EXISTING CONDUIT THAT IS CUT AND DISCONNECTED TO ACCOMMODATE WORK. PULL IN NEW WIRES BETWEEN NEAREST ACCESSIBLE OUTLETS INTENDED FOR REUSE. PROVIDE NEW CONDUIT WHERE WIRE CANNOT BE PULLED IN EXISTING. CONNECT NEW AND EXISTING WORK TO FUNCTION AS COMPLETE, CONTINUOUSLY GROUNDED SYSTEM. REMOVE CONDUIT AND EQUIPMENT NOT INTENDED FOR REUSE AND STORE WHERE DIRECTED. USE CONDUIT EXPOSED BY WORK OF THIS CONTRACT IN CONJUNCTION WITH NEAREST OUTLET INTENDED FOR REUSE AS DIRECTED.
- CONTRACT DOCUMENTS
 - WORK TO BE PERFORMED UNDER THIS SECTION IS SHOWN PRIMARILY ON THE FOLLOWING ELECTRICAL DRAWINGS: E-101 & E-102.
 - LISTING OF DRAWINGS DOES NOT LIMIT RESPONSIBILITY OF DETERMINING FULL EXTENT OF WORK REQUIRED BY CONTRACT DOCUMENTS.
 - EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
 - ITEMS REFERRED TO IN SINGULAR NUMBER IN CONTRACT DOCUMENTS SHALL BE PROVIDED IN QUANTITIES NECESSARY TO COMPLETE WORK.
 - DRAWINGS ARE DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE ABSOLUTELY PRECISE; THEY ARE NOT INTENDED TO SPECIFY OR TO SHOW EVERY OFFSET, FITTING, AND COMPONENT. THE PURPOSE OF THE DRAWINGS IS TO INDICATE A SYSTEMS CONCEPT, THE MAIN COMPONENTS OF THE SYSTEMS, & THE APPROXIMATE GEOMETRICAL RELATIONSHIPS. BASED ON THE SYSTEMS CONCEPT, THE MAIN COMPONENTS, AND THE APPROXIMATE GEOMETRICAL RELATIONSHIPS, THE CONTRACTOR SHALL PROVIDE ALL OTHER COMPONENTS AND MATERIALS NECESSARY TO MAKE THE SYSTEMS FULLY COMPLETE AND OPERATIONAL.
- SUBMITTALS
 - WITHIN TWO WEEKS (EXCEPT AS NOTED OTHERWISE) AFTER AWARD OF CONTRACT AND BEFORE ORDERING MATERIALS OR EQUIPMENT. SUBMIT LIST OF PROPOSED MATERIALS AND EQUIPMENT AND INDICATE MANUFACTURER'S NAMES, ADDRESSES AND IDENTIFYING DATA. NO CONSIDERATION WILL BE GIVEN TO PARTIAL LISTS SUBMITTED OUT OF SEQUENCE.
 - MATERIAL AND EQUIPMENT REQUIRING SHOP DRAWING AND PRODUCT DATA SUBMITTAL SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO:
 - CONDUIT AND RACEWAYS
 - WIRE AND CABLE

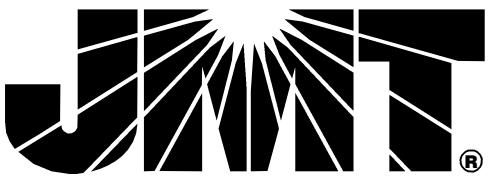
PART 2 - PRODUCTS

- RACEWAYS
 - ELECTRICAL METALLIC TUBING (EMT) SHALL BE ELECTRO-GALVANIZED AND MANUFACTURED IN ACCORDANCE WITH NEMA TL2.
 - FLEXIBLE METAL CONDUIT SHALL CONSIST OF CONTINUOUS LENGTHS OF SPIRAL WOUND & INTERLOCKED GALVANIZED STEEL, MANUFACTURED IN ACCORDANCE WITH UL 1. FLEXIBLE METAL CONDUIT SHALL BE LIMITED TO 6 LINEAR FEET OR LESS AT LIGHT FIXTURES. SHORT SECTION ARE PERMITTED AT VIBRATING EQUIPMENT SUCH AS TRANSFORMERS AND MOTORS.
 - CONDUIT EXPANSION FITTINGS SHALL BE THREADED HOT-DIPPED GALVANIZED MALLEABLE IRON WITH INTERNAL BONDING ASSEMBLY.
 - PROVIDE THREADED MALLEABLE IRON OR STEEL CONNECTORS AND COUPLINGS WITH INSULATED THROATS; MANUFACTURED ELBOWS; LOCKNUTS; AND PLASTIC OR BAKELITE BUSHINGS AT TERMINATIONS, AS NECESSARY. COUPLINGS AND CONNECTORS SHALL BE GLAND AND RING COMPRESSION. COMPRESSION COUPLINGS & CONNECTORS SHALL FORM POSITIVE GROUND. BUSHINGS FOR RIGID STEEL AND CONNECTORS FOR EMT SHALL HAVE INSULATING INSERTS THAT MEET REQUIREMENTS OF UL 514 FLAME TEST.
 - MINIMUM CONDUIT SIZE SHALL BE 3/4" DIAMETER UNLESS SPECIFIED OTHERWISE.
 - A MAXIMUM OF THREE BRANCH CIRCUITS PER CONDUIT WITH WIRING DERATED AS PER NEC TABLE 310.15.
- JUNCTION BOXES AND PULL BOXES
 - PROVIDE CODE GAUGE GALVANIZED STEEL JUNCTION AND PULL BOXES FOR CONDUIT 1-1/4" TRADE SIZE AND LARGER, WHERE INDICATED AND AS NECESSARY TO FACILITATE INSTALLATION, OF REQUIRED DIMENSIONS, WITH ACCESSIBLE, REMOVABLE SCREW-ON COVERS. PROVIDE JUNCTION AND PULL BOXES IN SPECIAL SIZES AND SHAPES DETERMINED IN FIELD WHERE NECESSARY.
 - JUNCTION BOX COVERS SHALL BE ACCESSIBLE. DO NOT INSTALL JUNCTION BOXES ABOVE SUSPENDED CEILINGS EXCEPT WHERE CEILING IS REMOVABLE OR WHERE ACCESS PANEL IS PROVIDED.
- WIRE AND CABLE (600 V INSULATION)
 - PROVIDE SINGLE CONDUCTOR, ANNEALED COPPER WIRE AND CABLE WITH INSULATION RATED 600 V, OF SIZES SPECIFIED AND SCHEDULED ON DRAWINGS, FOR SECONDARY SERVICE, FEEDERS, BRANCH AND SYSTEM WIRING. WIRE SIZES SHOWN AND SPECIFIED ARE AMERICAN WIRE GAUGE FOR COPPER.
 - ARMORED CABLE SHALL BE TYPE AC 600 V COPPER WITH FULL SIZED INSULATED GROUND CONDUCTOR. USE IS RESTRICTED BY REQUIREMENTS OF PARAGRAPH ENTITLED WIRING METHODS IN PART 3 OF THIS SECTION. MINIMUM SIZE SHALL BE #12 UNLESS SPECIFIED OTHERWISE.
 - WIRE #8 AND LARGER SHALL BE STRANDED; #10 AND SMALLER SHALL BE SOLID. WIRE AND CABLE SHALL HAVE THWN-THHN INSULATION RATED 75°C.

- WIRING WITHIN LIGHT FIXTURES AND OTHER HIGH-TEMPERATURE EQUIPMENT SHALL HAVE 150°C INSULATION AS REQUIRED BY NEC.
- SPICES AND TERMINATIONS
 - MAKE SPICES IN BRANCH CIRCUIT WIRING WITH UL LISTED, SOLDERLESS CONNECTORS RATED 600V, OF SIZES AND TYPES REQUIRED BY MANUFACTURER'S RECOMMENDATIONS WITH TEMPERATURE RATINGS EQUAL TO THOSE OF WIRES. SPICE CONNECTORS SHALL BE SCREW ON. INSULATE SPICES WITH INTEGRAL COVERS OR WITH PLASTIC OR RUBBER FRICTION TAPE TO PRESERVE CHARACTERISTICS OF WIRE AND CABLE INSULATION.
 - IMPACT OF SPICES AND CONNECTORS SHALL BE EQUAL TO THOSE OF ASSOCIATED WIRES AND CABLES.
- COLOR CODING
 - BRANCH CIRCUIT CONDUCTORS #12 AND #10 SHALL HAVE SOLID COLOR COMPOUND, SOLID COLOR COATING, NEUTRALS AND EQUIPMENT GROUNDS SHALL HAVE SOLID COMPOUND OR SOLID COLOR COATING (WHITE, GRAY AND GREEN), EXCEPT THAT NEUTRALS WITH COLORED STRIPE SHALL BE USED WHERE REQUIRED BY NEC. CONDUCTORS #8 AND LARGER WITH STRIPES, BANDS OR HASH MARKS SHALL MATCH EXISTING BUILDING COLOR CODE.
- MATERIALS AND WORKMANSHIP
 - ALL WORK SHALL BE EXECUTED IN WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR AND MECHANICAL APPEARANCE WHEN COMPLETED. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE BEST ENGINEERING PRACTICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. THIS SHALL INCLUDE PROVIDING CLEARANCES AS DEFINED IN THE INSTALLATION INSTRUCTIONS AND IN ACCORDANCE WITH NEC REQUIREMENTS. PROVIDE ALL AUXILIARY ITEMS REQUIRED TO PERFORM FUNCTION INTENDED MAINTAIN MAXIMUM HEADROOM AT ALL TIMES. DO NOT RUN PIPES AND DUCTS EXPOSED UNLESS SHOWN EXPOSED ON DRAWINGS. MATERIAL AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDED BEST PRACTICE SO THAT COMPLETED INSTALLATION SHALL OPERATE SAFELY AND EFFICIENTLY.
- CONTINUITY OF SERVICES
 - DO NOT INTERRUPT EXISTING SERVICES WITHOUT OWNER'S APPROVAL.
- TESTING, INSPECTION AND CLEANING
 - TEST WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE FIXTURES ARE CONNECTED.
 - FAILURE OR DEFECTS IN WORKMANSHIP OR MATERIALS REVEALED BY TESTS OR INSPECTION SHALL BE CORRECTED PROMPTLY AND RETESTED. REPLACE DEFECTIVE MATERIAL.
 - CLEAN PANELS AND OTHER EQUIPMENT. PANELBOARD INTERIORS SHALL BE CLEANED AND VACUUMED. DO NOT USED COMPRESSED AIR TO ASSIST IN CLEANING.
- EQUIPMENT
 - AFTER COMPLETION OF PROJECT, CLEAN THE EXTERIOR SURFACE OF EQUIPMENT INCLUDED IN THIS SECTION, INCLUDING CONCRETE RESIDUE.
- PROVIDE A DC MEGGER TEST FOR ALL NEW AND REUSED 600V WIRING TO TEST FOR OPEN/SHORT CIRCUIT CONDITIONS AND FOR INSULATION INTEGRITY. IN ACCORDANCE TO NETA TESTING SPECIFICATIONS.
- WIRING METHODS
 - INSTALL WIRE AND CABLE IN APPROVED RACEWAYS AS SPECIFIED AND AS APPROVED BY AUTHORITY HAVING JURISDICTION. SURFACE METAL RACEWAYS SHALL NOT BE USED UNLESS EXPLICITLY SPECIFIED AND SHOWN ON DRAWINGS. DO NOT USE SURFACE RACEWAYS ON FLOOR. DO NOT USE ARMORED CABLE EXCEPT AS APPROVED BY LOCAL CODE FOR LIGHTING AND RECEPTACLE CIRCUITS IN SUSPENDED CEILINGS AND STUD-WALL PARTITIONS.
 - WIRE FROM POINT OF SERVICE CONNECTION TO RECEPTACLES, LIGHTING FIXTURES, DEVICES, EQUIPMENT, OUTLETS FOR FUTURE EXTENSION, AND OTHER ELECTRICAL APPARATUS AS SHOWN ON DRAWINGS. PROVIDE SLACK WIRE FOR CONNECTIONS. TAPE ENDS OF WIRES AND PROVIDE BLANK COVERS FOR OUTLET BOXES DESIGNATED FOR FUTURE USE.
 - FOLLOW HOMERUN CIRCUIT NUMBERS SHOWN ON DRAWINGS TO CONNECT CIRCUITS TO PANELBOARDS.
 - ELECTRICAL METALLIC TUBING MAY BE USED GENERALLY, IF APPROVED BY LOCAL CODES. FOR LIGHTING FIXTURE AND RECEPTACLE CIRCUITS, TELEPHONE, INTERCOMMUNICATIONS, SIGNAL AND INSTRUMENTATION CIRCUITS, & FOR CONTROL CIRCUITS. EMT MAY BE USED GENERALLY, IF APPROVED BY AUTHORITIES, IN MASONRY WALLS, ABOVE HUNG CEILINGS, IN EQUIPMENT ROOMS, IN MECHANICAL AND ELECTRICAL CHASES AND CLOSETS, IN EXPOSED LOCATIONS ALONG CEILINGS OR WALLS ABOVE NORMAL TRAFFIC LEVEL AND WHERE NOT SUBJECT TO ACCIDENTAL DAMAGE OR ABUSE.
 - INSTALL CONNECTORS AND COUPLINGS AS RECOMMENDED BY MANUFACTURERS.
 - RUN CONCEALED CONDUIT IN AS DIRECT LINES AS POSSIBLE WITH MINIMUM NUMBER OF BENDS OF LONGEST POSSIBLE RADIUS. RUN EXPOSED CONDUIT AND EMT PARALLEL TO OR AT RIGHT ANGLES TO BUILDING LINES. ENDS SHALL BE FREE FROM DENTS OR FLATTENING.
 - CONDUIT AND EMT RUNS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS FROM SOURCE PANEL TO OUTLETS. CONDUIT SHALL ENTER AND BE SECURED TO CABINET, JUNCTION BOX, PULL BOX OR OUTLET BOX WITH LOCKNUT OUTSIDE AND BUSHING INSIDE, OR WITH LIQUID-TIGHT, THREADED, SELF-LOCKING, COLD-WELD WEDGE ADAPTER. LOCKNUTS AND BUSHINGS OR SELF-LOCKING ADAPTERS WILL NOT BE REQUIRED WHERE CONDUITS ARE SCREWED INTO TAPPED CONNECTIONS. VERTICAL CONDUIT RUNS THAT TERMINATE IN BOTTOMS OF WALL BOXES OR CABINETS SHALL BE PROTECTED FROM ENTRANCE OF FOREIGN MATERIAL BEFORE INSTALLATION OF CONDUCTORS.
 - SIZE CONDUIT AND FLEXIBLE METALLIC CONDUIT AS REQUIRED BY NEC EXCEPT AS SPECIFIED OR SHOWN ON DRAWINGS OTHERWISE.
 - INSTALL CONDUIT SYSTEMS COMPLETE BEFORE DRAWING IN CONDUCTORS. BLOW THROUGH AND SWAB AFTER PLASTER IS FINISHED AND DRY, AND BEFORE CONDUCTORS ARE INSTALLED.
 - ATTACH PULL ROPES TO CONDUCTORS WITH BASKET-WEAVE GRIPS ON PULLING EYES. PULL CABLES THAT SHARE CONDUIT AT SAME TIME.
 - PROVIDE INSERTS, HANGERS, ANCHORS AND STEEL SUPPORTS AS NECESSARY.
 - ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL.

- GROUNDING
 - PER CODE: PROVIDE JUMPERS OR BONDING CONDUCTORS WHERE RACEWAY IS ELECTRICALLY DISCONTINUOUS. PROVIDE COPPER GROUND CONDUCTOR MINIMUM #12 IN ALL 120 VOLT BRANCH CIRCUITS. EACH BRANCH
- CIRCUIT OR MULTI-WIRE CIRCUIT, TO HAVE A SEPARATE, DEDICATED CONDUCTOR.
- PROVIDE GROUND BUS INDICATED ON DRAWINGS.

- VOLTAGE CHECK
 - AT COMPLETION OF JOB AND AFTER FULL BUILDING OCCUPANCY. CHECK VOLTAGE AT SEVERAL POINTS OF UTILIZATION ON THE SYSTEM WHICH HAS BEEN INSTALLED UNDER THIS CONTRACT. DURING THE TEST, ENERGIZE ALL LOADS INSTALLED.
- PANELBOARDS
 - REVISE ALL EXISTING PANELBOARD DIRECTORIES WITH NEW TYPE WRITTEN INDEX SHOWING CIRCUIT CHANGES UNDER THIS CONTRACT, INCLUDING UPDATING OF EXISTING CIRCUITS NOT BEING CHANGED. PLACE DIRECTORY IN CLEAR PLASTIC SLEEVE AND POSITIVELY ATTACH TO THE INSIDE OF THE PANELBOARD DOOR. DO NOT GLUE DIRECTORY IN PLACE.



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SEAL:



PROJECT:

**CITY OF NEWARK
COUNCIL
CHAMBERS
IMPROVEMENTS**

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

MARK	DATE	DESCRIPTION
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PROJECT NO: 22-03026-024

DATE: 12/06/2023

SCALE: NTS

DESIGNED BY: JRM

DRAWN BY: JRM

CHECKED BY: JL

DRAWING TITLE:

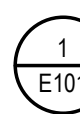
**ELECTRICAL LEGENDS,
ABBREVIATIONS, AND
NOTES**

SHEET NUMBER:

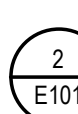
E001

SHEET OF

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SCALE: 3/16" = 1'-0"



SCALE: 3/16" = 1'-0"

1. 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.
2. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
3. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED, ELECTRICAL ITEMS SHOWN HEAVY SOLID (====) SHALL BE NEW, AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (——) SHALL BE EXISTING TO REMAIN.
4. REFER TO SHEET E-001 FOR LEGEND, ABBREVIATIONS, GENERAL PROJECT NOTES & LIGHT FIXTURE SCHEDULE.
5. REFER TO SHEET E-601 FOR PANELBOARD SCHEDULES.
6. BREAKERS SHALL BE MAINTAINED FOR USE WITH NEW ELECTRICAL LOADS. MARK BREAKERS AS SPARE, AND RE-USE TO FEED NEW LOADS. BREAKERS SHALL BE TESTED AND INSPECTED PRIOR TO CONNECTIONS OF NEW LOADS.
7. CIRCUIT INFORMATION IS BASED ON SITE INVESTIGATIONS AND AS-BUILT DOCUMENTATION. CONTRACTOR SHALL THOROUGHLY TRACE AND IDENTIFY ALL CIRCUITS BEING DEMOLISHED PRIOR TO DEMOLITION.

- 1 REMOVE EXISTING MICROPHONE EQUIPMENT FACEPLATE. WALL MOUNTED DEVICE SHALL BE REPLACED WITH DATA CONNECTION TO MATCH OTHER DEVICES. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- 2 ELECTRICAL, COMMUNICATION, AND DATA DEVICES SHALL BE DISCONNECTED AND RELOCATED ABOVE NEW PLATFORM. EXTEND ALL CONDUIT AND WIRE AS REQUIRED FOR RELOCATION. TYPICAL FOR ALL OTHER EQUIPMENT ON WALL.
- 3 DEMOLISH EXISTING BASEBOARD HEATER. REMOVE CONDUIT AND WIRING BACK TO PANEL HP-A. BREAKER SHALL BE MARKED AS SPARE FOR RE-USE.
- 4 DISCONNECT EXISTING LIGHT SYSTEM, AND REMOVE ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE. BREAKER IN SOURCE PANELBOARD SHALL BE MARKED AS SPARE.
- 5 PROVIDE NEW BASEBOARD HEATER SIMILAR TO QMAR 2500 SERIES. HEATER SHALL BE PROVIDED WITH A HANDLE OF PROVISIONAL SHIFTS WITH THE THERMOSTAT AND DISCONNECTING MEANS. COORDINATE EXACT LENGTH WITH ARCHITECTURAL PLANS.
- 6 EXTEND EXISTING CONFERENCE ROOM RECEPTACLE POWER TO NEW RECEPTACLES. ROUTE CONDUIT UNDER FLOOR FROM EXISTING RECEPTACLES TO NEW WORKTOP AREA.
- 7 ALL WORKTOP EQUIPMENT IS EXISTING TO REMAIN. STORE AND MAINTAIN EQUIPMENT FOR REINSTALLATION ON NEW WORKTOP.
- 8 PROVIDE 2#12-1#12G IN 3/4" CONDUIT FOR NEW BASEBOARD HEATER. CIRCUIT BREAKER FOR DEMOLISHED BASEBOARD HEATERS SHALL BE RE-USED TO FEED NEW BASEBOARD HEATERS.



**CITY OF NEWARK
COUNCIL
CHAMBERS
IMPROVEMENTS**

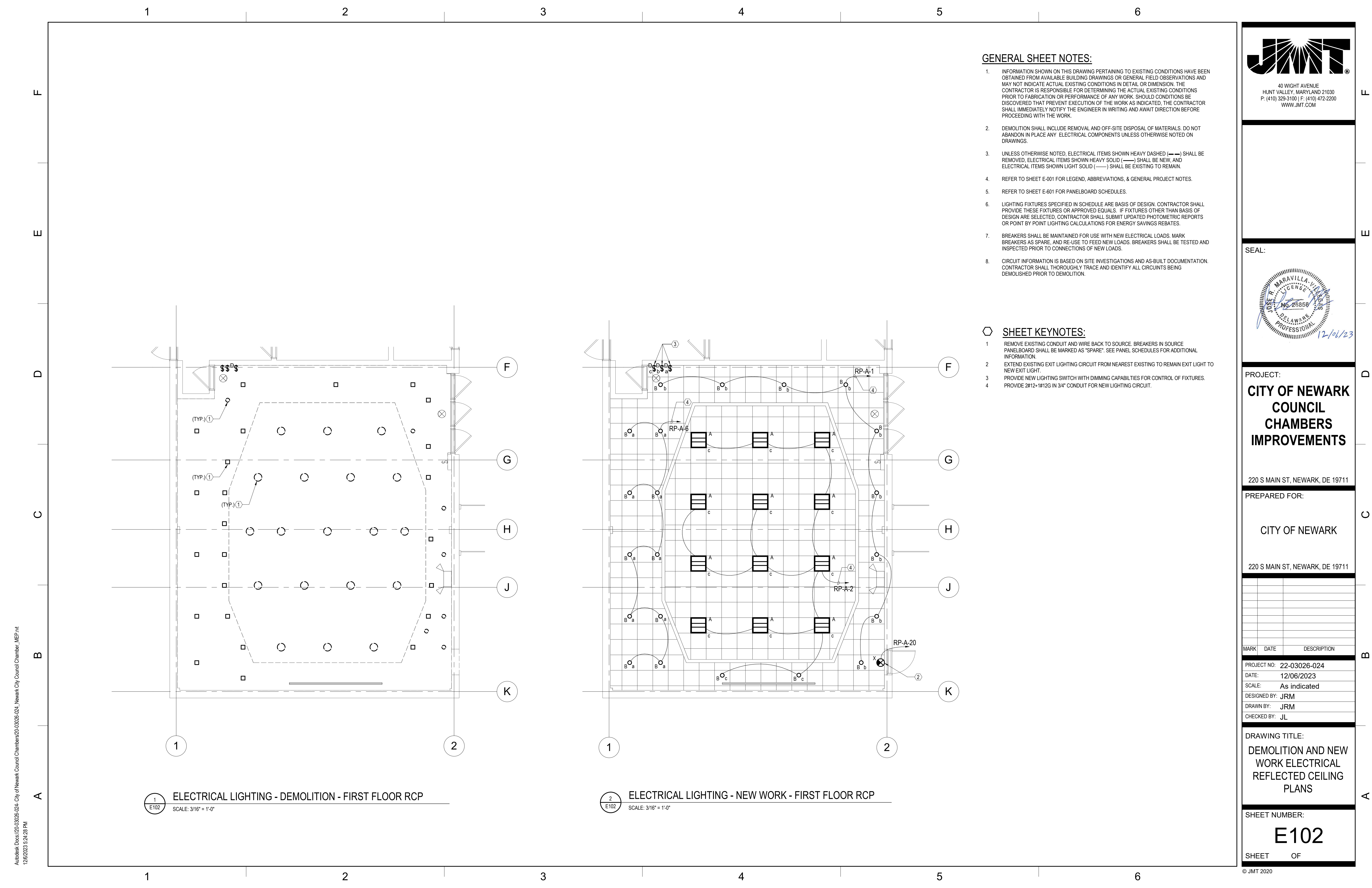
PREPARED FOR:

220 S MAIN ST, NEWARK, DE 19711

PROJECT NO:	22-03026-024
DATE:	12/06/2023
SCALE:	As indicated
DESIGNED BY:	JRM
DRAWN BY:	JRM
CHECKED BY:	JL

SHEET NUMBER:

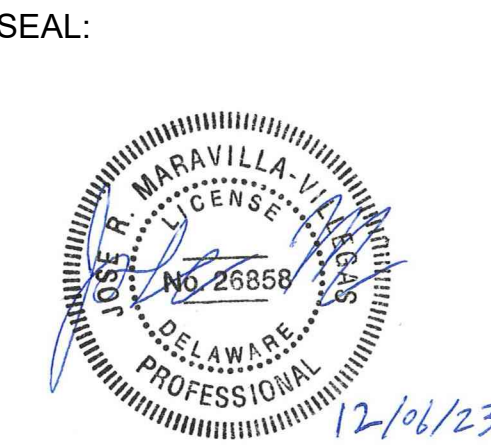
SHEET OF



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- GENERAL SHEET NOTES:**
1. 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.
 2. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
 3. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED, ELECTRICAL ITEMS SHOWN HEAVY SOLID (—) SHALL BE NEW, AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (——) SHALL BE EXISTING TO REMAIN.
 4. REFER TO SHEET E-001 FOR LEGEND, ABBREVIATIONS, & GENERAL PROJECT NOTES.
 5. REFER TO SHEET E-601 FOR PANELBOARD SCHEDULES.
 6. LIGHTING FIXTURES SPECIFIED IN SCHEDULE ARE BASIS OF DESIGN. CONTRACTOR SHALL PROVIDE THESE FIXTURES OR APPROVED EQUALS. IF FIXTURES OTHER THAN BASIS OF DESIGN ARE SELECTED, CONTRACTOR SHALL SUBMIT UPDATED PHOTOMETRIC REPORTS OR POINT BY POINT LIGHTING CALCULATIONS FOR ENERGY SAVINGS REBATES.
 7. BREAKERS SHALL BE MAINTAINED FOR USE WITH NEW ELECTRICAL LOADS. MARK BREAKERS AS SPARE, AND RE-USE TO FEED NEW LOADS. BREAKERS SHALL BE TESTED AND INSPECTED PRIOR TO CONNECTIONS OF NEW LOADS.
 8. CIRCUIT INFORMATION IS BASED ON SITE INVESTIGATIONS AND AS-BUILT DOCUMENTATION. CONTRACTOR SHALL THOROUGHLY TRACE AND IDENTIFY ALL CIRCUITS BEING DEMOLISHED PRIOR TO DEMOLITION.

- SHEET KEYNOTES:**
1. REMOVE EXISTING CONDUIT AND WIRE BACK TO SOURCE. BREAKERS IN SOURCE PANEL BOARD SHALL BE MARKED AS "SPARE". SEE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
 2. EXTEND EXISTING EXIT LIGHTING CIRCUIT FROM NEAREST EXISTING TO REMAIN EXIT LIGHT TO NEW EXIT LIGHT.
 3. PROVIDE NEW LIGHTING SWITCH WITH DIMMING CAPABILITIES FOR CONTROL OF FIXTURES.
 4. PROVIDE 2#12+1#12G IN 3/4" CONDUIT FOR NEW LIGHTING CIRCUIT.



PROJECT:
**CITY OF NEWARK
COUNCIL
CHAMBERS
IMPROVEMENTS**

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

MARK	DATE	DESCRIPTION

PROJECT NO:	22-03026-024
DATE:	12/06/2023
SCALE:	As indicated
DESIGNED BY:	JRM
DRAWN BY:	JRM
CHECKED BY:	JL

DRAWING TITLE:
**DEMOLITION AND NEW
WORK ELECTRICAL
REFLECTED CEILING
PLANS**

SHEET NUMBER:

E102

SHEET OF

1

2

3

4

5

6

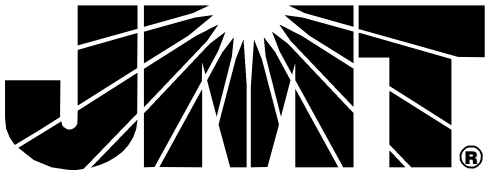
EXISTING PANEL											
PANEL: PNL HP-A - 1ST FLOOR HEATING											
MOUNTING: SURFACE											
MAIN: 225 MCB											
AMP: 225 VOLT: 277/480											
PHASE: 3 4 WIRE + GND											
AIC: 14K AMPS RMS SYM											
LIGHT TEXT - EXISTING TO REMAIN, BOLD TEXT - PROVIDE or NEW LOAD INDICATED											
Branch Circuit Load Description	A	B	C	Trip Poles	Ckt. No.	Phase	Ckt. No.	Trip Poles	A	B	C
ROOMS 124A, 121B, 122	6.00			20/1	1	A	2	20/1	6.00		
ROOMS 111, 110		6.00		20/1	3	B	4	20/1		6.00	
SPARE			0.00	20/1	5	C	6	20/1			6.00
ROOMS 124, 124A	6.00			20/1	7	A	8	20/1	6.00		
ROOMS 116, 102, 102A		6.00		20/1	9	B	10	20/1		6.00	
ROOMS 104, 105A			6.00	20/1	11	C	12	20/1			6.00
SPARE	0.00			20/1	13	A	14	20/1	0.00		
ROOM 128 (VESTIBULE) - NORTH		4.00		20/1	15	B	16	20/1		4.00	
ROOM 120 (COUNCIL CHAMBER)			4.50	20/1	17	C	18	20/1			4.50
ROOM 120 (COUNCIL CHAMBER)	3.00			20/1	19	A	20	20/1	3.50		
ROOM 107 - COMPUTER RM		6.00		20/1	21	B	22	20/1		4.00	
SPARE			0.00	20/1	23	C	24	20/1			0.00
SPARE	0.00			20/1	25	A	26	20/1	0.00		
SPARE		0.00		20/1	27	B	28	20/1		0.00	
SPARE			0.00	20/1	29	C	30	20/1			0.00
MECH EQUIPMENT CIRCUIT BRKRS SHALL BE HACR RATED											
PROVIDE THE FOLLOWING:											
PHASE A 30.50 kVA											
PHASE B 42.00 kVA											
PHASE C 27.00 kVA											
99.50 kVA TOTAL CONNECTED LOAD											
99.50 kVA TOTAL DEMAND LOAD											

EXISTING PANEL											
PANEL: RP-A SECTION 1											
MOUNTING: SURFACE											
MAIN: MLO											
AMP: 100 VOLT: 120/208											
PHASE: 3 4 WIRE + GND											
AIC: 10K AMPS RMS SYM											
LIGHT TEXT - EXISTING TO REMAIN, BOLD TEXT - PROVIDE or NEW LOAD INDICATED											
Branch Circuit Load Description	A	B	C	Trip Poles	Ckt. No.	Phase	Ckt. No.	Trip Poles	A	B	C
LIGHTS ROOM 120	0.80			20/1	1	A	2	20/1	0.22		
REC. RM. 101, 101A, 102A, 103, 104		1.62		20/1	3	B	4	20/1		0.00	
SPARE			0.00	20/1	5	C	6	20/1			0.09
SPARE	0.00			20/1	7	A	8	20/1	0.25		
EXHAUST FANS RM. 123, 125		0.00		20/1	9	B	10	20/1		0.34	
REC. RM. 129, 118, 101, 102			1.62	20/1	11	C	12	20/1			1.44
LIGHTS RM. 120 - CONTACTOR CONTROL	0.00			20/1	13	A	14	20/1	1.44		
REC. RM. 104A, 105, 105A		1.44		20/1	15	B	16	20/1		1.08	
REC. RM. 120			1.26	20/1	17	C	18	20/1		1.44	
EM. BATT. RM. 120	0.00			20/1	19	A	20	20/1	0.00		
PROJECTION SCREEN RM. 120		0.00		20/1	21	B	22	20/1		1.50	
REC. RM. 124A, 124, 123			1.62	20/1	23	C	24	20/1		1.26	
MECH EQUIPMENT CIRCUIT BRKRS SHALL BE HACR RATED											
PROVIDE THE FOLLOWING:											
FEED THROUGH LUGS											
PHASE A 2.71 kVA											
PHASE B 5.98 kVA											
PHASE C 8.73 kVA											
17.41 kVA CONNECTED LOAD (SECTION 1)											
8.64 kVA CONNECTED LOAD (SECTION 2)											
26.05 kVA TOTAL CONNECTED LOAD											
18.58 kVA TOTAL DEMAND LOAD											

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	PRODUCT MODEL NUMBER	MANUFACTURER	LAMP	WATTAGE	CCT	MOUNTING	REMARKS	
A	2'X2' LED TROFFER	2BLT2 33L AD5M 120 E21 LP840	LITHONIA LIGHTING	LED	16 VA	4000 K	RECESSED IN T-GRID	SEE NOTE 1, 2, 3, 4, & 5	
B	ROUND DOWNLIGHT RECESSED 6" DIAMETER	LDN6 40/07 L06 AR LSS TRW 120 GZ10	LITHONIA LIGHTING	LED	9 VA	4000 K	RECESSED IN CEILING	SEE NOTE 1, 2, 3, 4, & 5	
X	LED EMERGENCY EXIT SIGN, WITH BATTERY	LQM S W R MVOLT EL N	LITHONIA LIGHTING	LED	3 VA		CEILING MOUNTED	SEE NOTE 1, 2, 3, 4, 5 & 6	

FIXTURE SCHEDULE NOTES:

- COORDINATE ALL FIXTURE QUANTITIES AND PLACEMENT REQUIREMENTS.
- CONTRACTORS SHALL BE RESPONSIBLE FOR ORDERING AND COORDINATING ALL FIXTURE OPTIONS AND ACCESSORIES TO ENSURE A COMPLETE QUALITY INSTALLATION.
- FOR ALL LIGHT FIXTURES, FINISH SHOULD BE COORDINATED WITH ARCHITECT.
- FOR ALL LIGHT FIXTURES, COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS.
- ALL LIGHTING FIXTURES SHALL BE APPROVED BY THE OWNER/ARCHITECT PRIOR TO ORDERING AND INSTALLING.
- FOR EXIT LIGHTS PROVIDE SINGLE OR DOUBLE FACE AS INDICATED ON FLOOR PLANS. ALSO PROVIDE INTEGRAL BATTERY BACK-UP.



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SEAL:



PROJECT:

CITY OF NEWARK
COUNCIL
CHAMBERS
IMPROVEMENTS

220 S MAIN ST, NEWARK, DE 19711

PREPARED FOR:

CITY OF NEWARK

220 S MAIN ST, NEWARK, DE 19711

MARK DATE DESCRIPTION

PROJECT NO: 22-03026-024

DATE: 12/06/2023

SCALE:

DESIGNED BY: JRM

DRAWN BY: JRM

CHECKED BY: JL

DRAWING TITLE:

ELECTRICAL PANEL
SCHEDULES

SHEET NUMBER:

E601

SHEET OF

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