

TO: Bid Responders

FROM: Clark Hughes

DATE: July 17, 2026

SUBJECT: JIM WHELAN BOARDWALK HALL - GENERAL INFORMATION
TRADE SHOP DEVELOPMENT – GENERAL CONTRACTORS

Bidders should be aware that all submitted sealed bids are carefully reviewed for compliance, and non-compliant bids are rejected. Please carefully review your bid submissions for compliance. The following information is required but not limited to.

Documents that must be submitted at the time of the bid.

1. Section: 1.0, 1.18 - **Must provide documentation.** Bidder to provide documentation evidencing that the firm meets the minimum requirements. (Sect 1.18).
The bidder must participate in an apprenticeship program, registered and approved by the United States Department of Labor, for each separate trade or classification for which it employs craft employees. All bidders and subcontractors must continue to participate in such apprenticeship programs for the duration of the project. In addition, the bidder will be required to show that such apprenticeship programs graduated apprentices to journeyman status for three of the past five years.
2. Bidder and subcontractors must provide copies of the Business Registration Certificate, New Jersey Department of Labor & Workforce Development Certificate, and Public Works Contractor Registration Certificate.
3. Bidder's Insurance certificate showing evidence of coverage limits, and declaration pages for current policies.

The following Exhibits provided in the bid package must be completed and executed and provided with the bid.

Exhibit A	Signatory Page
Exhibit B	Disclosure of Investigation and Actions Involving Bidder
Exhibit C	Notice of Intent to Subcontract Form
Exhibit D	Subcontractor Utilization Form
Exhibit E	Affirmative Action Forms
Exhibit F	Public Law 2005, Chapter 51 and Executive Order 117 (2008) Part 3: Certification – One of the four options must be marked (i, ii, (C) (D)) off.
Exhibit G	Fee Schedule
Exhibit H	Non-Collusion Affidavit
Exhibit I	Contract and Specification for General Construction <u>Article I. 00500 Agreement must be signed</u>

NOTE: Contract modification requests shall be presented during the Question-and-Answer period.

OAKVIEW VENUE GROUP

SOLICITATION OF BIDS

ATLANTIC CITY CONVENTION CENTER

JIM WHELAN BOARDWALK HALL

For:	ATLANTIC CITY CONVENTION CENTER
	TRADE SHOP UPGRADE GENERAL CONTRACTORS

Event	Date	Time
Bidder's Question Due Date (Refer to BID Section 1.5 for more information.)	WEDNESDAY AUGUST 12, 2026	12:00 PM 1200 HOURS
Response To Questions	WEDNESDAY AUGUST 19, 2026	5:00 PM 1700 HOURS
Pre-bid Conference (Refer to BID Section 1.8 for more information.) One Convention Boulevard, Atlantic City, NJ, 08401. Executive Conference Room	WEDNESDAY AUGUST 5, 2026	11:00 AM 1100 HOURS
Site Visit (Refer to BID Section 1.9 for more information.) One Convention Boulevard, Atlantic City, NJ, 08401. Executive Conference Room	SAME	SAME
Bid Submission Due Date (Refer to BID Section 1.3 for more information.) 2301 Boardwalk, Atlantic City, NJ, 08401. Conference Room 150	WEDNESDAY AUGUST 26, 2026	11:00 AM 1100 HOURS

Dates are subject to change. All changes will be reflected in Addenda to the bid posted on the Boardwalk Hall/Convention Center website at <http://www.boardwalkhall.com/business-opportunities/rfps>

Issued By

OAKVIEW VENUE GROUP, as operator of Jim Whelan Boardwalk Hall and the Atlantic City Convention Center, as managing agent for Casino Reinvestment Development Authority
2301 Boardwalk
Atlantic city, New Jersey 08401
Phone: 609-348-7026

Date Issued:

Friday, July 17, 2026

NOTICE TO BIDDERS

PUBLIC NOTICE IS HEREBY GIVEN that sealed bids will be received by OAKVIEW VENUE GROUP, as operator of Jim Whelan Boardwalk Hall (“Boardwalk Hall”) and the Atlantic City Convention Center (the “Convention Center”), as agent on behalf of the Casino Reinvestment Development Authority (“CRDA”) for

TRADE SHOP UPGRADE GENERAL CONTRACTORS

Bid forms, contracts, drawings and specifications can be obtained from the OAKVIEW VENUE GROUP website
<http://www.boardwalkhall.com/business-opportunities/rfps>

Sealed bids must be mailed, presented or delivered to OAKVIEW VENUE GROUP, 2301 Boardwalk, Atlantic City, New Jersey 08401, Attn. Clark Hughes, Capital Projects/Procurement Manager. OAKVIEW VENUE GROUP accepts no responsibility for the timeliness of any bidder’s delivery, mail, delivery or courier service.

Sealed bids shall be submitted in the manner prescribed in the bid specifications. The sealed envelopes must be labeled, **“TRADE SHOP UPGRADE at ATLANTIC CITY CONVENTION CENTER”** and contain the bidder’s name and address and the bid opening date

Bids will be received, opened and read aloud in public at OAKVIEW VENUE GROUP offices at 2301 Boardwalk, Atlantic City, New Jersey on **(August 26, 2026) at (11:00AM)**, eastern prevailing time.

Bidders are required to comply with the requirements of N.J.A.C. 17:27 (Affirmative Action), Americans with Disabilities Act of 1990 (42 U.S.C. 12101, et.seq.), N.J.S.A. 52:32-44 (Business Registration), and N.J.S.A. 10:5-1 (Law Against Discrimination).

Dated: July 17, 2026

1.0 INFORMATION FOR BIDDERS

1.1 Background

The Atlantic City Convention Center (“Convention Center”), located at One Convention Boulevard, Atlantic City, NJ, has 486,000 square feet of continuous exhibit space. The exhibit hall is divisible into five separate halls, ranging in size from 29,400 square feet to 199,500 square feet.

The Convention Center’s 45 meeting rooms on the third and fourth level of the Convention Center surround the expansive atrium lobby and total 109,100 square feet. Room dimensions range from 11,800 square feet to 672 square feet. The rooms’ amenities include soundproof panels, assisted lighting systems and voice, video and data communications.

The Convention Center’s ample pre-function space, more than 32,000 square feet, is well suited to registration, retail or dining needs. The building is served by 29 covered loading docks, four drive in roll-up doors, mechanical levelators and 1400 indoor parking spaces. The Convention Center is connected to the Atlantic City Rail Terminal that runs the Atlantic City line from Philadelphia to Atlantic City. A pedestrian bridge links the Convention Center to the adjoining Sheraton Hotel. Located within a few hours’ drive of nearly one-third of the nation’s population and 20 percent of the country’s business addresses, the Convention Center is easily accessible for convention, tradeshow and meeting attendees.

Jim Whelan Boardwalk Hall (“Boardwalk Hall”), located on the boardwalk between Mississippi and Georgia Avenues, Atlantic City, NJ, is a major icon for Atlantic City. Boardwalk Hall has a maximum capacity of approximately 14,000 in the arena and the ballroom which seats up to 3,500. Boardwalk Hall hosts a wide range of events from concerts to family shows like Sesame Street, to sporting events and other entertainment.

The facilities have established as their primary goal the highest level of service to their customers and clients. All operating entities in each facility must adhere to the following objectives:

- a) Offer services according to the highest industry standards and in the best interest of each facility, the community and the State of New Jersey
- b) Operate in a manner consistent with the public interest, providing each facility with full accountability for, and accurate records of all transactions conducted within each venue.
- c) Provide the highest level of safety, service and cooperation to clients and attendees of the facilities.
- d) Hold and maintain in good standing all required applicable local, state and federal licenses and permits for the services required herein. Failure to maintain said licenses and permits may be cause for termination of contract.

1.2 Purpose and Intent

OAKVIEW VENUE GROUP is releasing this Bid for General Construction (the “Solicitation”) to solicit bids to engage general construction services for **“TRADE SHOP UPGRADE at ATLANTIC CITY CONVENTION CENTER”** as more fully set forth in the contract awarded from this Solicitation.

OAKVIEW VENUE GROUP intends to award a contract to the lowest responsible bidder whose bid conforms to these specifications. OAKVIEW VENUE GROUP, however, reserves the right to separately procure individual requirements that are the subject of the contract during the term when deemed by OAKVIEW VENUE GROUP to be in OAKVIEW VENUE GROUP’s best interest. OAKVIEW VENUE GROUP reserves the right

to reject any and all bids when it is determined by OAKVIEW VENUE GROUP to be in its best interest. OAKVIEW VENUE GROUP further reserves the right to waive minor irregularities in bids submitted in response to this Solicitation.

All capitalized terms not otherwise defined in this Solicitation shall have the meaning ascribed to them in the contract awarded through this Solicitation.

IN ADDITION TO MEETING ALL OTHER REQUIREMENTS OF THIS SOLICITATION, ALL BIDDERS MUST MEET THE MINIMUM REQUIREMENTS OUTLINED IN SECTION 1.18 HEREIN.

1.3 Bid Submission

In order to be considered, a bid must be delivered, in a sealed envelope, to the following:

CLARK HUGHES
CAPITAL PROJECTS/PROCUREMENT MANAGER
OAKVIEW VENUE GROUP
2301 BOARDWALK
ATLANTIC CITY, NEW JERSEY 08401

by the date and time located on the cover page. Bidders are cautioned to allow adequate delivery time to ensure timely delivery of bids. **THE EXTERIOR OF ALL BID PACKAGES ARE TO BE LABELED “LOBBY AUDIO VIDEO MODIFICATION PROJECT at JIM WHELAN BOARDWALK HALL”**

Bids submitted by facsimile or electronically will not be considered.

1.4 Number of Bid Copies

The bidder must submit **two (2) complete ORIGINAL bids**, clearly marked as the “ORIGINAL” bids. The bidder should submit **three (3) full, complete, and exact copies** of the original bid.

1.5 Questions and Answers

Global Spectrum will accept questions and inquiries pertaining to this bid from all potential bidders electronically. Questions shall be directed to the staff person identified in Section 1.3 above, at the following email address:

ACRFP-QUESTIONS@GLOBAL-SPECTRUM.COM
BRAULIO ROSSY <BROSSY@NETTAARCHITECTS.COM>

The cut-off date for electronic questions will be as indicated on the cover page.

The subject line of all emailed questions should say **“BID FOR, “TRADE SHOP UPGRADE at ATLANTIC CITY CONVENTION CENTER” - Bid Inquiry”**.

Any requested exceptions to the Contract, appended as Exhibit J, shall be raised by the bidder as a question during the Question and Answers period through the same procedure set forth in this provision of the Solicitation. Any amendment to the Contract shall be determined by OAKVIEW VENUE GROUP Venue Management, in its sole and absolute discretion, with such determination to be set forth in the Question

and Answer addendum issued, if any, after the Question and Answer deadline. OAKVIEW VENUE GROUP reserves the right to reject any and all proposed amendments to the Contract.

Bidders are not to contact OAKVIEW VENUE GROUP Venue Management directly, in person or by telephone, concerning this bid. All questions and answers will be posted on the Boardwalk Hall/Convention Center's website at www.boardwalkhall.com/business-opportunities/rfps, as soon as practicable, after the question-and-answer deadline.

1.6 Addenda: Revisions to this Bid Solicitation

In the event that it becomes necessary to clarify or revise this Solicitation, such clarification or revision will be by addendum. Any addendum to this bid will become part of this bid and part of any contract award as a result of this bid. **ALL BID ADDENDA WILL BE POSTED ON THE BOARDWALK HALL/CONVENTION CENTER WEBSITE** at www.boardwalkhall.com/business-opportunities/rfps.

It is the sole responsibility of the bidder to be knowledgeable of all addenda related to this bid. There are no designated dates for release of addenda. Therefore, interested bidders should check the Boardwalk Hall/Convention Center website on a daily basis from the time of bid issuance through bid opening.

1.7 Bidder Responsibility

The bidder assumes the sole responsibility for the complete effort required in submitting a bid in response to this Solicitation. No special consideration will be given after bids are opened because of a bidder's failure to be knowledgeable as to all of the requirements of this bid. OAKVIEW VENUE GROUP assumes no responsibility and bears no liability for cost incurred by a bidder in the preparation and submittal of a bid in response to this Solicitation.

The bidder will be required to be knowledgeable with respect to the construction industry and existing conditions at the project location, and to take same into account when submitting its bid.

1.8 Pre-Bid Conference

A Pre-bid conference for discussion of the project in general will be held at the date and time indicated on the cover page, in the offices of OAKVIEW VENUE GROUP at One Convention Boulevard, Atlantic City, New Jersey. At that time Global Spectrum and any consultants will provide prospective bidders with an overview of the project.

1.9 Site Visit A site visit will be conducted on the date indicated on the cover page, immediately following the Pre-bid Conference. Contractors will be given access to the project area immediately following the pre bid meeting. Bidders are urged to inspect the site where construction services are to be performed and to satisfy themselves regarding all general and local conditions that may affect the cost of contract performance, to the extent that the information is reasonably obtainable. In no event shall failure to inspect the site constitute grounds for a claim after contract award.

1.10 Bid Opening

On the date and time bid is due under this Solicitation, the names of the bidders' submitting bids and the amount bid will be publicly announced. The bid opening will take place at the offices of Global Spectrum located at 2301 Boardwalk, Atlantic City, New Jersey 08401.

1.11 Price Alterations

Bid prices must be typed or written in blue ink. Any price change (including "white outs") must be initialed. Failure to initial price changes shall preclude a contract award from being made to the bidder.

1.12 Bid Errors

A bidder may withdraw its bid as follows:

A bidder may request that its bid be withdrawn prior to bid opening. Such request must be made, in writing, to the staff person identified in Section 1.3 above. If the request is granted, the bidder may submit a revised bid as long as the bid is received prior to the announced date and time for bid opening and at the place specified.

If, after bid opening but before contract award, a bidder discovers an error in its bid, the bidder may make written request to the staff person identified in Section 1.3 above for authorization to withdraw its bid from consideration for award. Evidence of the bidder's good faith in making this request shall be used in making the determination. Some of the factors that may be considered are that the mistake is so significant that to enforce the contract resulting from the bid would be unconscionable; that the mistake relates to a material feature of the contract; that the mistake occurred notwithstanding the bidder's exercise of reasonable care; and that Global Spectrum will not be significantly prejudiced by granting the withdrawal of the bid.

All bid withdrawal requests must include the bid title and the final bid opening date and sent to the following address:

OAKVIEW VENUE GROUP
2301 Boardwalk
Atlantic City, New Jersey 08401
Attn: Staff person identified in Section 1.3 above
BID WITHDRAWAL REQUEST

If during a bid evaluation process, an obvious pricing error made by a potential contract awardee is found, OAKVIEW VENUE GROUP shall issue written notice to the bidder. The bidder will have five (5) days after receipt of the notice to confirm its pricing. If the vendor fails to respond, its bid shall be considered withdrawn, and no further consideration shall be given to it.

1.13 Joint Ventures

If a joint venture is submitting a bid, the agreement between the parties relating to such joint venture should be submitted with the joint venture's bid. Authorized signatories from each party comprising the joint venture must sign the bid. A separate Disclosure of Investigations and Actions Involving Bidder, Affirmative Action Employee Information Report, Disclosure of Political Contributions (c.51) and Business Registration or Interim Registration must be supplied for each party to a joint venture.

1.14 Contents of Bid - Open Public Records Act

Subsequent to bid opening, all information submitted by bidders in response to the bid solicitation is considered public information, except as may be exempted from public disclosure by the Open Public Records Act, N.J.S.A. 47:1A-1 et seq., and the common law.

A bidder may designate specific information as not subject to disclosure when the bidder has a good faith legal/factual basis for such assertion. CRDA reserves the right to make the determination and will advise the bidder accordingly. The location in the bid of any such designation should be clearly stated in a cover letter. CRDA WILL NOT HONOR ANY ATTEMPT BY A BIDDER EITHER TO DESIGNATE ITS ENTIRE BID AS PROPRIETARY, CONFIDENTIAL AND/OR TO CLAIM COPYRIGHT PROTECTION FOR ITS ENTIRE BID.

1.15 Bid Bond

Any entity submitting a bid in response to this Solicitation must submit a guarantee payable to OAKVIEW VENUE GROUP so that if the contract is awarded to the bidder, the bidder will enter into a contract there for and will furnish any performance bond or other security required. The guarantee shall be in the amount of 10% of the bid amount, but not in excess of \$20,000. The guarantee can be submitted, at the option of the bidder, by certified check, cashier check or bid bond.

The Bid Bond must contain an Affidavit of Surety's Attorney-In-Fact (Power of Attorney). The Attorney-In-Fact must be an authorized agent of the surety to act for the surety and be authorized to bind the surety to pay the bid bond in a penal sum of 10% of the bid amount, not to exceed \$20,000.

Failure to provide a bid bond or a valid power of attorney, as specified, with the bid will result in rejection of the bid for noncompliance.

1.16 Payment and Performance Bond

The bidder shall submit with its bid a Consent of Surety or Surety Agreement, from a surety or sureties licensed to do business in the State of New Jersey and acceptable to Global Spectrum, stating that it will provide an **unconditional bond in an amount equal to 100% of the contract price (bid amount)**. Failure to provide the Consent of Surety or Surety Agreement will result in rejection of the bid as non-responsive.

The Consent of Surety or Surety Agreement shall be obtained for a bond for the faithful performance of all provisions of the specifications relating to the performance of the contract. The surety corporation bonds shall be furnished by only those sureties listed in the US Treasury Department Circular 570 and authorized to do business in the State of New Jersey. The bonds shall be accompanied by a certification as to authorization of the attorney-in-fact to commit the surety company, a Surety Disclosure Statement and Certification in compliance with N.J.S.A. 2A:44-143d and a true and correct statement of the financial condition of said surety company.

Failure to provide a Consent of Surety or Surety Agreement, a Surety Disclosure Statement and Certification and a valid power of attorney, as specified, with the bid will result in rejection of the bid for noncompliance.

1.17 Standards for Surety Bond Companies

The following requirements must be met for surety companies:

- All surety companies must have the minimum capital and surplus or net cash assets required, pursuant to N.J.S.A. 17:17-6 or N.J.S.A. 17:17-7, whichever is applicable, at the time the invitation to bid is issued. A Financial Statement must be submitted.
- All surety companies must complete a Surety Disclosure Statement and Certification for all **payment and performance bonds**, regardless of project cost, pursuant to N.J.S.A. 2A:44-143d.
- All surety companies must be authorized to transact such business in New Jersey, pursuant to N.J.S.A. 17-17-10 or 17:32-1 et seq., as applicable.

THE DOCUMENTS REQUIRED TO BE SUBMITTED UNDER THIS PROVISION SHALL BE PLACED IN A SEPARATE SEALED ENVELOPE AND ATTACHED TO THE SEALED ENVELOPE CONTAINING THE BID SUBMISSION.

1.18 Minimum Requirements

- a) **Construction experience involving three (3) related construction projects equal to or greater than the amount bid.**

Project Name & Location: _____

Contract Value for this bidder: \$ _____

Project Name & Location: _____

Contract Value for this bidder: \$ _____

Project Name & Location: _____

Contract Value for this bidder: \$ _____

- b) **Minimum of ten (10) years related construction experience.**

Bidder should provide a company resume to document construction experience.

- c) **Successful completion of at least three (3) substantially similar construction projects for public or private owners, completed in the past five (5) years.**

The Bidder must provide specific information that demonstrates the similarity of the work and allows for evaluation of the submittal.

Project Name & Location: _____

Bidders contract value: _____

Bidders scope of work on project: _____

Project duration: _____

Project completed on: _____

Project Reference contact: _____

Project Name & Location: _____

Bidders contract value: _____
Bidders scope of work on project: _____
Project duration: _____
Project completed on: _____
Project Reference contact: _____

Project Name & Location: _____
Bidders contract value: _____
Bidders scope of work on project: _____
Project duration: _____
Project completed on: _____
Project Reference contact: _____

- d) **The bidder must participate in an apprenticeship program, registered and approved by the United States Department of Labor, for each separate trade or classification for which it employs craft employees. All bidders and subcontractors must continue to participate in such apprenticeship programs for the duration of the project. In addition, the bidder will be required to show that such apprenticeship programs graduated apprentices to journeyperson status for three of the past five years.**

1.19 Balanced Bid

Each pay item should reflect the actual cost, which the bidder anticipates incurring for the performance of that particular item, together with a proportional share of the bidder's anticipated profit, overhead and costs to perform work for which no Pay Item is provided. In no event will the Project Owner consider any claim for additional compensation arising from the bid on an item or group of items, inaccurately reflecting a disproportionate share of the bidder's anticipated profit, overhead and other costs.

2.0 SCOPE OF WORK

The work on this project consists of the following:

TRADE SHOP UPGRADE at ATLANTIC CITY CONVENTION CENTER Refer to the attached plans created by Netta Architects

3.0 PROPOSAL PREPARATION AND SUBMISSION

3.1 Contract Schedule

OAKVIEW VENUE GROUP anticipates that the project start date will be October 5, 2026, and requires that the project be completed to the satisfaction of the Owner by December 23, 2026.

REQUIRED BID SUBMITTALS AND COMPLIANCE INFORMATION

A) Signatory page

The bidder must complete and submit the signatory page attached as **Exhibit A**, which must be signed by an authorized representative of the bidder, evidencing the bidder's concurrence with all of the terms and conditions of this bid. If the bidder is a limited partnership, the signatory page must be signed by a general partner. If the bidder is a joint venture, the signatory page must be signed by a principal of each party to the joint venture. **Failure to comply will result in rejection of the bid.**

B) Disclosure of Investigations/Actions Involving Bidder

The bidder shall provide a detailed description of any investigation, litigation, including administrative complaints or other administrative proceedings, involving any public sector clients during the past five (5) years including the nature and status of the investigation, and, for any litigation, the caption of the action, a brief description of the action, the date of inception, current status, and, if applicable, disposition. The bidder shall use the Disclosure of Investigations and Actions Involving Bidder form attached as **Exhibit B**.

C) Business registration certificate from the Division of Revenue

As a condition of entering into a contract, pursuant to an amendment to N.J.S.A. 52:32-44, State and local entities (including the CRDA) are prohibited from entering into a contract with an entity unless the bidder and each subcontractor named in the bid has a valid Business Registration Certificate on file with the Division of Revenue.

The contractor and any subcontractor providing goods or performing services under the contract, and each of their affiliates, shall, during the term of the contract, collect and remit to the Director of the Division of Taxation in the Department of Treasury the use tax due pursuant to the "Sales and Use Tax Act, P.L. 1966, c. 30 (N.J.S.A. 54:32B-1 et seq) on all their sales of tangible personal property delivered into the State.

The bidder must be properly registered to do business with the State of New Jersey as of the date of contract award and provide a copy of the bidder's NJ Business Registration Certificate with its bid. If not already registered with the New Jersey Division of Revenue, registration can be completed online at the Division of Revenue website: <http://www.state.nj.us/treasury/revenue/index.html>.

D) New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56.25 et. seq. and Public Works Contractor Registration Act Certificate, N.J.S.A. 34:11-56.48 et seq.

The New Jersey Prevailing Wage Act requires the payment of minimum rates of pay to laborers, craftsman and apprentices employed on public works projects. Covered workers must receive the appropriate craft prevailing wage rate as determined by the Commissioner of Labor and Workforce Development. Prevailing wage rates are wage rates established for a particular craft or trade in the locality in which the public work is performed. In New Jersey, these rates vary by county and by the type of work performed.

THIS CONTRACT IS SUBJECT TO THE NEW JERSEY PREVAILING WAGE ACT. Anyone interested in bidding or engaging in any contract resulting from this bid must register with the Department

of Labor and Workforce Development, Division of Wage and Hour Compliance as required by the Public Works Contractor Registration Act, N.J.S.A. 34:11-56.48 et seq. The New Jersey Department of Labor and Workforce Development makes official wage determination and debarment list information available on its website at www.nj.gov/labor/lse/lspubcon.html. By accessing this website official New Jersey Prevailing Wage Rate Determinations may be obtained.

The bidder and subcontractors must be properly registered with the Department of Labor and Workforce Development under the Public Works Contractor Registration Act, N.J.S.A. 34:11-56.48 et seq., as of the bid opening date, and must submit a copy of the bidder's Public Works Contractor Registration Act certificate with its bid.

E) Notice to all Contracts Set-Off for State Tax Notice

Pursuant to L. 1995, c. 159, effective January 1, 1996, and notwithstanding any provision of the law to the contrary, whenever any taxpayer, partnership or S corporation under contract to provide goods or services or construction projects to the State of New Jersey or its agencies or instrumentalities, including the legislative and judicial branches of State government, is entitled to payment for those goods or services at the same time a taxpayer, partner or shareholder of that entity is indebted for any State tax, the Director or the Division of Taxation shall seek to set off that taxpayer's or shareholder's share of the payment due the taxpayer, partnership, or S corporation. The amount set off shall not allow for the deduction of any expenses or other deductions which might be attributable to the taxpayer, partner or shareholder subject to set-off under this act.

The Director of the Division of Taxation shall give notice of the set-off to the taxpayer and provide an opportunity for a hearing within thirty (30) days of such notice under the procedures for protests established under R.S. 54:49-18. No requests for conference, protest, or subsequent appeal to the Tax Court from any protest under this section shall stay the collection of the indebtedness. Interest that may be payable by the State, pursuant to P.L. 1987, c. 184 (c. 52-32-32 et seq.), to the taxpayer shall be stayed.

F) Notice of Intent to Subcontract

The bidder shall complete the attached Notice of Intent to Subcontract Form (**Exhibit C**) to advise Global Spectrum as to whether or not a subcontractor will be utilized to provide any goods or services under the contract.

G) Subcontractor Utilization Form

If the bidder intends to utilize subcontractor(s), the Subcontractor Utilization Form (**Exhibit D**) must be completed and submitted with the bid. The bidder must identify all subcontractors that the bidder intends to utilize to perform work required under this contract.

H) Affirmative Action

Each contractor shall submit to Global Spectrum, after notification of award, one of the following:

- Appropriate evidence that the contractor is operating under an existing federally approved or sanctioned affirmative action program.

- A certificate of employee information report approval, issued in accordance with N.J.A.C. 17:27-4
- An employee information report (Form AA201), **Exhibit E**.

I) Requirements of N.J.S.A. 19:44A-20.13-25 (Formerly Executive Order 134)

The bidder is required to complete the attached Political Contributions Disclosure form. The requirement is a precondition to entering into a contract with Global Spectrum. The Political Contributions Disclosure form is attached as **Exhibit F**.

(i) Additional Disclosure Requirement of P.L. 2005, c. 271

Contractor is required to file an annual disclosure statement on political contributions with the New Jersey Election Law Enforcement Commission (ELEC), pursuant to P.L. 2005, c. 271, section 3 if the contractor receives contracts in excess of \$50,000 from a public entity in a calendar year. It is the contractor's responsibility to determine if filing is necessary. Failure to so file can result in imposition of financial penalties by ELEC. Additional information about this requirement is available from ELEC at 888-313-3532 or at www.elec.state.nj.us.

J) Insurance Certificates

The contractor shall provide OAKVIEW VENUE GROUP Venue Management with documentation, including certificates and declaration pages, evidencing its current policies of insurance, and if the bidder is awarded hereunder, such policies of insurance shall name the OAKVIEW VENUE GROUP as an "Additional Insured".

K) Schedule of Estimated Quantities, Unit Prices, and Lump Sum Items

The bidder must submit its pricing using the format set forth in the OAKVIEW VENUE GROUP supplied Schedule of Estimated Quantities, Unit Prices, and Lump Sum Items attached as **Exhibit G** to this Solicitation.

Failure to submit all information required in the Fee Schedule will result in the bid being considered non-responsive. Each bidder is required to hold its prices firm through issuance of contract.

L) Affidavit of Non-Collusion, Exhibit H.

The bidder must submit the affidavit attached as **Exhibit H** with its bid.

M) Compliance with Executive Order 151, dated August 28, 2009

Small Business Enterprise Requirement: It is the policy of the CRDA and as required by Executive Order 151 ("EO 151") that small businesses (each a "small business enterprise" or "SBE"), as determined and defined by the State of New Jersey, Division of Minority and Women Business Development ("Division") and the New Jersey Department of the Treasury ("Treasury") in N.J.A.C. 17:14 et seq. or other application regulation, should have the opportunity to participate in CRDA contracts.

To the extent the Contractor engages subcontractors or sub-consultants to perform services for OAKVIEW VENUE GROUP pursuant to this Contract, the firm must demonstrate to the OAKVIEW VENUE GROUP's satisfaction that a good faith effort was made to utilize subcontractors and sub-consultants who are registered with the Division as SBEs. Be advised that the CRDA shall be evaluated quarterly by the Division, based on its attainment of the Participation Goals set forth in the State of New Jersey Construction Services Disparity Study (October, 2005) and the State of New Jersey Disparity Study of Procurement in Professional Services, Other Services, and Goods and Commodities (June, 2005).

Evidence of a "good faith effort" includes, but is not limited to:

1. The Firm shall request listings of SBEs from the Division (609) 292-2146 and attempt to contact same.
2. The Firm shall keep specific records of its efforts, including records of all requests made to the Division, the names of SBEs contacted, and the means and results of such contacts, including without limitation receipts from certified mail and telephone records.
3. The Firm shall actively solicit and shall provide OAKVIEW VENUE GROUP Venue Management with proof of solicitations of SBEs for the provision of services, including advertisements in general circulation media, professional service publications and small business, minority-owned business or women-owned business focus media.
4. The Firm shall provide evidence of efforts made to identify categories of services capable of being performed by SBEs.
5. The Firm shall provide all potential subcontractors and sub-consultants that the Firm has contacted pursuant to 2 or 3 above with detailed information regarding the scope of work of the subject contract.
6. The Firm shall provide evidence of efforts made to use the goods and/or services of available community organizations, consultant groups, and local, State, and federal agencies that provide assistance in the recruitment and placement of SBEs.

Furthermore, the Firm shall submit proof of its subcontractors' and/or sub-consultants' SBE registrations, and shall complete such other forms as may be required by OAKVIEW VENUE GROUP Venue Management for State reporting as to participation.

Pursuant to Executive Order 151 the participants' goals for this Contract are African-Americans 2.47%, Asian-Americans 1.47%, Hispanics 1.1%, Native Americans .07% and Caucasian Females 3.74%.

N) Contract and Specification

The bidder shall **review and execute** the Contract and Specification attached hereto as **Exhibit I**. Exceptions taken, during the Question and Answer period, to the Contract may be considered as a factor in evaluating responsiveness of bids. OAKVIEW VENUE GROUP reserves all rights to reject any and all bids based upon exceptions taken to the Contract. Execution of the Contract is not to be construed as entering into a contract with OAKVIEW VENUE GROUP Venue Management but rather as a submission of an offer to contract with OAKVIEW VENUE GROUP Venue Management. **Failure to submit a signed contract shall result in the bid being deemed non-responsive.**

4.0 EXHIBITS

Exhibit A	Signatory Page
Exhibit B	Disclosure of Investigations/Actions Involving Bidder
Exhibit C	Notice of Intent to Subcontract
Exhibit D	Subcontractor Utilization Form
Exhibit E	Affirmative Action Forms
Exhibit F	Political Contributions Disclosure
Exhibit G	Schedule of Estimated Quantities, Unit Prices, and Lump Sum Items Refer to the Bid Form
Exhibit H	Affidavit of Non-Collusion
Exhibit I	Contract and Specification

Exhibit A
SIGNATORY PAGE

BID: **TRADE SHOP UPGRADE**

FOR INFORMATION: **OAKVIEW VENUE GROUP**
2301 Boardwalk
Atlantic City, New Jersey 08401
609-348-7026

Name, Address, Phone, Facsimile, Email and Contact person for Bidder:

SIGNATURE OF THE BIDDER'S AUTHORIZED REPRESENTATIVE ATTESTS THAT THE BIDDER HAS READ, UNDERSTANDS AND AGREES TO ALL OF THE TERMS AND CONDITIONS SET FORTH IN THE SOLICITATION, INCLUDING ADDENDA. BY SIGNING BELOW, BIDDER AGREES TO HOLD ITS BID FIRM THROUGH THE NOTICE OF CONTRACT AWARD, DURING ANY CHALLENGE TO THE AWARD, AND, IF AWARDED A CONTRACT, FOR THE DURATION OF THE PROJECT THROUGH SUBSTANTIAL COMPLETION. FAILURE OF THE BIDDER TO HOLD PRICES FIRM OR TO MEET OTHER TERMS AND CONDITIONS AS DEFINED IN THE SOLICITATION MAY RESULT IN THE BIDDER BEING SUSPENDED OR DEBARRED FROM CONTRACTING WITH CRDA.

Name and Title of Person

Authorized to sign bid:

Signature:

Date:

Exhibit B

DISCLOSURE OF INVESTIGATIONS AND ACTIONS INVOLVING BIDDER

The bidder shall provide a detailed description of any investigation, litigation, including administrative complaints or other administrative proceedings, involving any public sector client during the past five (5) years including the nature and status of the investigation, and, for any litigation, the caption and docket number of the action, a brief description of the action, the date of inception, current status, and, if applicable, disposition.

Investigation(s)

Indicate "NONE" if no investigations were undertaken. Attach additional pages if necessary.

Person or Entity	Date of Inception	Brief Description	Disposition/Status (if applicable)	Bidder Contact Name and Telephone for additional information
-------------------------	--------------------------	--------------------------	---	---

Litigation/Administrative Complaints

Indicate "NONE" if no Litigation/Administrative Complaints. Attach additional pages if necessary.

Person or Entity	Date of Inception	Caption of the Action	Brief Description of the Action	Current Status or Disposition (if applicable)	Bidder Contact Name and Telephone for additional information
-------------------------	--------------------------	------------------------------	--	--	---

Exhibit C

NOTICE OF INTENT TO SUBCONTRACT FORM

THIS FORM MUST BE COMPLETED AND INCLUDED AS PART OF EACH BIDDER'S BID. FAILURE TO SUBMIT THIS FORM MAY BE CAUSE FOR REJECTION OF THE BID AS NON-RESPONSIVE.

SOLICITATION TITLE: _____

BID OPENING DATE: _____

BIDDERS NAME AND ADDRESS:

INSTRUCTIONS: PLEASE CHECK ONE OF THE STATEMENTS BELOW

_____ If awarded this contract, I will engage subcontractors to provide certain goods and/or services.

ALL BIDDERS THAT INTEND TO ENGAGE SUBCONTACTORS SHALL ALSO SUBMIT A SUBCONTRACTOR UTILIZATION PLAN FORM WITH THEIR BID.

_____ If awarded this contract, I do not intend to engage subcontractors to provide any goods and/or services.

ALL BIDDERS THAT DO NOT INTEND TO ENGAGE SUBCONTACTORS CERTIFY AS FOLLOWS: I hereby certify that if the award is granted to my firm and if I determine at any time during the course of the contract to engage subcontractors to provide certain goods and/or services, I will submit the Subcontractor Utilization Form to OAKVIEW VENUE GROUP Venue Management for approval, in advance of any such engagement.

Authorized Signatory for Bidder

Title

Date

Exhibit D

SUBCONTRACTOR UTILIZATION FORM

INSTRUCTIONS

Any bidder intending to subcontract any parts of a contract with the OAKVIEW VENUE GROUP must complete a **Notice of Intent to Subcontract** and a **Subcontractor Utilization Form**.

Bidders are instructed to list **all** proposed subcontractors on the Form. Any bidder intending to subcontract that does not complete a Notice of Intent to Subcontract and a Subcontractor Utilization Form may be subject to rejection of its proposal as non-responsive.

IF BIDDER INTENDS TO UTILIZE SUBCONTRACTORS, FAILURE TO COMPLETE AND SUBMIT THIS FORM WITH BID MAY RESULT IN REJECTION OF THE PROPOSAL AS NON-RESPONSIVE.

SOLICITATION TITLE: _____

BID OPENING DATE: _____

BIDDER NAME & ADDRESS:

BIDDER CONTACT PERSON & PHONE:

Instructions: List all businesses to be used as subcontractors. Attach copies for extended lists.

Subcontractor's Name, Address, Telephone and Vendor ID Number	Type(s) of Goods or Services to be Provided	Estimated Value of Subcontract(s)	Hourly rates for subcontract(s)

I hereby certify that this Subcontractor Utilization Form is being submitted in good faith. I certify that each subcontractor has been notified that it has been listed on this Form and that each subcontractor has consented, in writing, to its name being submitted for this contract. Additionally, I certify that I shall notify each subcontractor listed on this Form, in writing, if the award is granted to my firm, and shall make all documentation available to OAKVIEW VENUE GROUP upon request.

I further certify that all information contained in this Form is true and correct and I acknowledge that OAKVIEW VENUE GROUP will rely on the truth of the information in awarding the contract.

Authorized signatory for Bidder

Title

Date

Exhibit E
GOODS, PROFESSIONAL SERVICES AND GENERAL SERVICE CONTRACTS

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE
N.J.S.A. 10:5-31 et seq., N.J.A.C. 17:27

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation or sex. Except with respect to affectional or sexual orientation, the contractor will take affirmative action to ensure that such applicants are recruited and employed, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation or sex. Such action shall include, but not limited to the following: employment, upgrading, promotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation or sex.

The contractor or subcontractor, where applicable, will send to each labor union or representative or workers with which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to **N.J.S.A. 10:5-31 et seq.** as amended and supplemented from time to time and the Americans with Disabilities Act.

The contractor or subcontractor agrees to make good faith efforts to employ minority and women workers consistent with the applicable county employment goals established in accordance with **N.J.A.C. 17:27-5.2**, or a binding determination of the applicable county employment goals determined by the Division, pursuant to **N.J.A.C. 17:27-5.2**.

The contractor or subcontractor agrees to inform in writing its appropriate recruitment agencies including, but not limited to, employment agencies, placement bureaus, colleges, universities, labor unions, that it does not discriminate on the basis of age, creed, color, national origin, ancestry, marital status, affectional or sexual orientation or sex, and that it will discontinue the use of any recruitment agency which engages in direct or indirect discriminatory practices.

The contractor or subcontractor agrees to revise any of its testing procedures, if necessary, to assure that all personal testing conforms with the principles of job-related testing, as established by the statutes and court decisions of the State of New Jersey and as established by applicable Federal law and applicable Federal court decisions.

In conforming with the applicable employment goals, the contractor or subcontractor agrees to review all procedures relating to transfer, upgrading, downgrading and layoff to ensure that all such actions are taken without regard to age, creed, color, national origin, ancestry, marital status, affectional or sexual orientation or sex, consistent with the statutes and court decisions of the State of New Jersey, and applicable Federal law and applicable Federal court decisions.

The contractor shall submit to the public agency, after notification of award but prior to execution of a goods and services contract, one of the following three documents: Letter of Federal Affirmative Action Plan Approval; Certificate of Employee Information Report; or Employee Information Report Form AA302.

The contractor and its subcontractor shall furnish such reports or other documents to the Division of Contract Compliance & EEO as may be requested by the Division from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Division of Contract Compliance & EEO for conducting a compliance investigation pursuant to **Subchapter 10 of the Administrative Code at N.J.A.C.17:27**.

PLEASE CHECK THE APPROPRIATE BOX:

- ☐ **I HAVE A CURRENT NJ AFFIRMATIVE ACTION
CERTIFICATE (PLEASE ATTACH A COPY TO YOUR BID)**
- ☐ **I HAVE A VALID FEDERAL AFFIRMATIVE ACTION PLAN
APPROVAL LETTER (PLEASE ATTACH A COPY TO YOUR
BID)**
- ☐ **I HAVE COMPLETED AND ENCLOSED THE FORM AA201
INITIAL PROJECT WORKFORCE REPORT**

Exhibit F

PUBLIC LAW 2005, CHAPTER 51 AND EXECUTIVE ORDER 117 (2008)

Chapter 51 Instr. - Rev. 4/17/15

Page 1 of 4

INFORMATION AND INSTRUCTIONS For Completing the “Two-Year Vendor Certification and Disclosure of Political Contributions” Form

Background Information

On September 22, 2004, then-Governor James E. McGreevey issued E.O. 134, the purpose of which was to insulate the negotiation and award of State contracts from political contributions that posed a risk of improper influence, purchase of access or the appearance thereof. To this end, E.O. 134 prohibited State departments, agencies and authorities from entering into contracts exceeding \$17,500 with individuals or entities that made certain political contributions. E.O. 134 was superseded by Public Law 2005, c. 51, signed into law on March 22, 2005 (“Chapter 51”). On September 24, 2008, then-Governor Jon S. Corzine issued E.O. 117 which is designed to enhance New Jersey’s efforts to protect the integrity of procurement decisions and increase the public’s confidence in government. The Executive Order builds upon the provisions of Chapter 51.

Two-Year Certification Process

Upon approval by the State Chapter 51 Review Unit, the Certification and Disclosure of Political Contributions form is valid for a two (2) year period. Thus, if a vendor receives approval on January 1, 2014, the certification expiration date would be December 31, 2015. Any change in the vendor’s ownership status and/or political contributions during the two-year period will require the submission of new Chapter 51/Executive Order 117 forms to the State Review Unit. **Please note that it is the vendor’s responsibility to file new forms with the State should these changes occur.**

State Agency Instructions: Prior to the awarding of a contract, the State Agency should first send an e-mail to CD134@treas.nj.gov to verify the certification status of the vendor. If the response is that the vendor is NOT within an approved two-year period, then forms must be obtained from the vendor and forwarded for review. If the response is that the vendor is within an approved two-year period, then the response so stating should be placed with the bid/contract documentation for the subject project.

Instructions for Completing the Form

NOTE: Please refer to pages 3 and 4 “USEFUL DEFINITIONS for the purposes of Chapter 51 and Executive Order 117” for guidance when completing the form.

Part 1: BUSINESS ENTITY INFORMATION

Business Name – Enter the full legal name of the vendor, including trade name if applicable.

Address, City, State, Zip and Phone Number -- Enter the vendor's street address, city, state, zip code and telephone number.

Vendor Email – Enter the vendor’s primary email address.

Vendor FEIN – Please enter the vendor’s Federal Employment Identification Number.

Business Type - Check the appropriate box that represents the vendor's type of business formation.

Listing of officers, shareholders, partners or members - Based on the box checked for the business type, provide the corresponding information. (A complete list must be provided.)

Public Law 2005, Chapter 51 and Executive Order 117 (2008)

Chapter 51 Instr. - Rev. 4/17/15

Page 2 of 4

Part 2: DISCLOSURE OF CONTRIBUTIONS

Read the three types of political contributions that require disclosure and, if applicable, provide the recipient's information. The definition of "Business Entity/Vendor" and "Contribution" can be found on pages 3 and 4 of this form.

Name of Recipient – Enter the full legal name of the recipient.

Address of Recipient – Enter the recipient's street address.

Date of Contribution - Indicate the date the contribution was given.

Amount of Contribution - Enter the dollar amount of the contribution.

Type of Contribution – Select the type of contribution from the examples given.

Contributor's Name - Enter the full name of the contributor.

Relationship of the Contributor to the Vendor - Indicate the relationship of the contributor to the vendor. (e.g. officer or shareholder of the company, partner, member, parent company of the vendor, subsidiary of the vendor, etc.)

NOTE: If form is being completed electronically, click "Add a Contribution" to enter additional contributions. Otherwise, please attach additional pages as necessary. Check the box under the recipient information if no reportable contributions have been solicited or made by the business entity. **This box must be checked if there are no contributions to report.**

Part 3: CERTIFICATION

Check Box A if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity.

(No additional Certification and Disclosure forms are required if BOX A is checked.)

Check Box B if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity with the exception of those individuals and/or entities that submit their own separate form. For example, the representative is not signing on behalf of the vice president of a corporation, but all others. The vice president completes a separate Certification and Disclosure form. **(Additional Certification and Disclosure forms are required from those individuals and/or entities that the representative is not signing on behalf of and are included with the business entity's submittal.)**

Check Box C if the representative completing the Certification and Disclosure form is doing so on behalf of the business entity only. **(Additional Certification and Disclosure forms are required from all individuals and/or entities whose contributions are attributable to the business entity and must be included with the business entity submittal.)**

Check Box D when a sole proprietor is completing the Certification and Disclosure form or when an individual or entity whose contributions are attributable to the business entity is completing a separate Certification and Disclosure form.

Read the five statements of certification prior to signing.

The representative authorized to complete the Certification and Disclosure form must sign and print her/his name, title or position and enter the date.

Public Law 2005, Chapter 51 and Executive Order 117 (2008)
Chapter 51 Instr. - Rev. 4/17/15

Page 3 of 4

State Agency Procedure for Submitting Form(s)

The State Agency should submit the completed and signed Two-Year Vendor Certification and Disclosure forms either electronically to: cd134@treas.nj.gov or regular mail at: Chapter 51 Review Unit, P.O. Box 230, 33 West State Street, Trenton, NJ 08625-0230. Original forms should remain with the State Agency and copies should be sent to the Chapter 51 Review Unit.

Business Entity Procedure for Submitting Form(s)

The business entity should return this form to the contracting State Agency.

The business entity can submit the Certification and Disclosure form directly to the Chapter 51 Review Unit only when:

- The business entity is approaching its two-year certification expiration date and is seeking certification renewal;
- The business entity had a change in its ownership structure; OR
- The business entity made any contributions during the period in which its last two-year certification was in effect, or during the term of a contract with a State Agency.

Questions & Information

Questions regarding the interpretation or application of Public Law 2005, Chapter 51 (N.J.S.A. 19:44A-20.13) or E.O. 117 (2008) may be submitted electronically through the Division of Purchase and Property website at:

<https://www.state.nj.us/treas/purchase/eo134questions.shtml>

Reference materials and forms are posted on the Political Contributions Compliance website at:

<http://www.state.nj.us/treasury/purchase/execorder134.shtml>

USEFUL DEFINITIONS for the purposes of Chapter 51 and Executive Order 117

- **“Business Entity/Vendor”** means any natural or legal person, business corporation, professional services corporation, limited liability company, partnership, limited partnership, business trust, association or any other legal commercial entity organized under the laws of New Jersey or any other state or foreign jurisdiction. The definition also includes (i) if a business entity is a for-profit corporation, any officer of the corporation and any other person or business entity that owns or controls 10% or more of the stock of the corporation; (ii) if a business entity is a professional corporation, any shareholder or officer; (iii) if a business entity is a general partnership, limited partnership or limited liability partnership, any partner; (iv) if a business entity is a sole proprietorship, the proprietor; (v) if the business entity is any other form of entity organized under the laws of New Jersey or any other state or foreign jurisdiction, any principal, officer or partner thereof; (vi) any subsidiaries directly or indirectly controlled by the business entity; (vii) any political organization organized under 26 U.S.C.A. § 527 that is directly or indirectly controlled by the business entity, other than a candidate committee, election fund, or political party committee; and (viii) with respect to an individual who is included within the definition of “business entity,” that individual's civil union partner and any child residing with that person. **1**
- **“Officer”** means a president, vice president with senior management responsibility, secretary, treasurer, chief executive officer or chief financial officer of a corporation or any person routinely performing such functions for a corporation. Please note that officers of non-profit entities are excluded from this definition.
- **“Partner”** means one of two or more natural persons or other entities, including a corporation, who or which are joint owners of and carry on a business for profit, and which business is organized under the laws of this State or any other state or foreign jurisdiction, as a general partnership, limited partnership, limited liability partnership, limited liability company, limited partnership association, or other such form of business organization.

1Contributions made by a spouse, civil union partner or resident child to a candidate for whom the contributor is eligible to vote or to a political party committee within whose jurisdiction the contributor resides are permitted.

Public Law 2005, Chapter 51 and Executive Order 117 (2008)

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Page 4 of 4

USEFUL DEFINITIONS for the purposes of Chapter 51 and Executive Order 117

- **“Contribution”** is a contribution, including an in-kind contribution, in excess of \$300.00 in the aggregate per election made to or received by a candidate committee, joint candidates committee, or political committee; or per calendar year made to or received by a political party committee, legislative leadership committee, or continuing political committee or a currency contribution in any amount.
- **“In-kind Contribution”** means a contribution of goods or services received by a candidate committee, joint candidates committee, political committee, continuing political committee, political party committee, or legislative leadership committee, which

contribution is paid for by a person or entity other than the recipient committee, but does not include services provided without compensation by an individual volunteering a part of or all of his or her time on behalf of a candidate or committee.

- **“Continuing Political Committee”** includes any group of two or more persons acting jointly, or any corporation, partnership, or any other incorporated or unincorporated association, including a political club, political action committee, civic association or other organization, which in any calendar year contributes or expects to contribute at least \$4,300 to aid or promote the candidacy of an individual, or the candidacies of individuals, for elective public office, or the passage or defeat of a public questions, and which may be expected to make contributions toward such aid or promotion or passage or defeat during a subsequent election, provided that the group, corporation, partnership, association or other organization has been determined by the Commission to be a continuing political committee in accordance with N.J.S.A. 19:44A-8(b).
- **“Candidate Committee”** means a committee established by a candidate pursuant to N.J.S.A. 19:44A-9(a), for the purpose of receiving contributions and making expenditures.
- **“State Political Party Committee”** means a committee organized pursuant to N.J.S.A. 19:5-4.
- **“County Political Party Committee”** means a committee organized pursuant to N.J.S.A. 19:5-3.
- **“Municipal Political Party Committee”** means a committee organized pursuant to N.J.S.A. 19:5-2.
- **“Legislative Leadership Committee”** means a committee established, authorized to be established, or designated by the President of the Senate, the Minority Leader of the Senate, the Speaker of the General Assembly, or the Minority Leader of the General Assembly pursuant to N.J.S.A. 19:44A-10.1 for the purpose of receiving contributions and making expenditures.
- **“Political Party Committee”** means:
 1. The State committee of a political party, as organized pursuant to N.J.S.A. 19:5-4;
 2. Any county committee of a political party, as organized pursuant to N.J.S.A. 19:5-3; or
 3. Any municipal committee of a political party, as organized pursuant to N.J.S.A. 19:5-2



State of New Jersey
Department of the Treasury
Division of Purchase and Property
Two-Year Chapter 51/Executive Order 117 Vendor Certification and
Disclosure of Political Contributions

Chapter 51 - Rev. 4/17/15

Page 1 of 3

FOR STATE AGENCY USE ONLY

Solicitation, RFP, or Contract No. _____ Award Amount _____

Description of Services _____

State Agency Name _____ Contact Person _____

Phone Number _____ Contact Email _____

☐ Check if the Contract / Agreement is Being Funded Using FHWA Funds

Please check if requesting
recertification ☐

Part 1: Business Entity Information

Full Legal Business Name _____
(Including trade name if applicable)

Address _____

City _____ State _____ Zip _____ Phone _____

Vendor Email _____ Vendor FEIN (SS# if sole proprietor/natural person) _____

Check off the business type and list below the required information for the type of business selected.
MUST BE COMPLETED IN FULL

- ☐ Corporation: LIST ALL OFFICERS and any 10% and greater shareholder
- ☐ Professional Corporation: LIST ALL OFFICERS and ALL SHAREHOLDERS
- ☐ Partnership: LIST ALL PARTNERS with any equity interest
- ☐ Limited Liability Company: LIST ALL MEMBERS with any equity interest
- ☐ Sole Proprietor

Note: "Officers" means President, Vice President with senior management responsibility, Secretary, Treasurer, Chief Executive Officer or Chief Financial Officer of a corporation, or any person routinely performing such functions for a corporation.

All Officers of a Corporation or PC

**10% and greater shareholders of a corporation
or all shareholder of a PC**

All Equity partners of a Partnership

All Equity members of a LLC

If you need additional space for listing of Officers, Shareholders, Partners or Members, please attach separate page.

IMPORTANT NOTE: You must review the definition of "contribution" and "business entity" on the Information and Instructions form prior to completing Part 2 and Part 3. The Information and Instructions form is available at: <http://www.state.nj.us/treasury/purchase/forms.shtml#eo134>

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Page 2 of 3

Part 2: Disclosure of Contributions by the business entity or any person or entity whose contributions are attributable to the business entity.

1. Report below all contributions solicited or made during the 4 years immediately preceding the commencement of negotiations or submission of a proposal to any:

Political organization organized under Section 527 of the Internal Revenue Code and which also meets the definition of a continuing political committee as defined in N.J.S.A. (See **Information and Instructions form.**)

2. Report below all contributions solicited or made during the 5 ½ years immediately preceding the commencement of negotiations or submission of a proposal to any:

Candidate Committee for or Election Fund of any Gubernatorial or Lieutenant Gubernatorial candidate
State Political Party Committee
County Political Party Committee

3. Report below all contributions solicited or made during the 18 months immediately preceding the commencement of negotiations or submission of a proposal to any:

Municipal Political Party Committee
Legislative Leadership Committee

Full Legal Name of Recipient	
Address of Recipient	
Date of Contribution	Amount of Contribution
Type of Contribution (i.e. currency, check, loan, in-kind)	
Contributor Name	
Relationship of Contributor to the Vendor	
If this form is not being completed electronically, please attach additional contributions on separate page. Click the "Add a Contribution" tab to enter additional contributions.	

☐ **Check this box only if no political contributions have been solicited or made by the business entity or any person or entity whose contributions are attributable to the business entity.**

Part 3: Certification

- i. ☐ I am certifying on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity as listed on Page 1 under **Part 1: Vendor Information**.
- ii. ☐ I am certifying on behalf of the business entity and all individuals and/or entities whose contributions are attributable to the business entity as listed on Page 1 under **Part 1: Vendor Information**, except for the individuals and/or entities who are submitting separate Certification and Disclosure forms which are included with this submittal.
- (C) ☐ I am certifying on behalf of the business entity only; any remaining persons or entities whose contributions are attributable to the business entity (as listed on Page 1) have completed separate Certification and Disclosure forms which are included with this submittal.
- (D) ☐ I am certifying as an individual or entity whose contributions are attributable to the business entity.

I hereby certify as follows:

- I have read the Information and Instructions accompanying this form prior to completing the certification on behalf of the business entity.**
- All reportable contributions made by or attributable to the business entity have been listed above.**

1. The business entity has not knowingly solicited or made any contribution of money, pledge of contribution, including in-kind contributions, that would bar the award of a contract to the business entity unless otherwise disclosed above:

- a) Within the 18 months immediately preceding the commencement of negotiations or submission of a proposal for the contract or agreement to:
- (i) A candidate committee or election fund of any candidate for the public office of Governor or Lieutenant Governor or to a campaign committee or election fund of holder of public office of Governor or Lieutenant Governor; **OR**
 - (ii) Any State, County or Municipal political party committee; **OR**
 - (iii) Any Legislative Leadership committee.
- b) During the term of office of the current Governor or Lieutenant Governor to:
- (i) A candidate committee or election fund of a holder of the public office of Governor or Lieutenant Governor; **OR**
 - (ii) Any State or County political party committee of the political party that nominated the sitting Governor or Lieutenant Governor in the last gubernatorial election.
- c) Within the 18 months immediately preceding the last day of the sitting Governor or Lieutenant Governor's first term of office to:
- (i) A candidate committee or election fund of the incumbent Governor or Lieutenant Governor; **OR**
 - (ii) Any State or County political party committee of the political party that nominated the sitting Governor or Lieutenant Governor in the last gubernatorial election.

4. During the term of the contract/agreement the business entity has a continuing responsibility to report, by submitting a new Certification and Disclosure form, any contribution it solicits or makes to:

- (a) Any candidate committee or election fund of any candidate or holder of the public office of Governor or Lieutenant Governor; **OR**
- (b) Any State, County or Municipal political party committee; **OR**
- (c) Any Legislative Leadership committee.

The business entity further acknowledges that contributions solicited or made during the term of the contract/agreement may be determined to be a material breach of the contract/agreement.

5. During the two-year certification period the business entity will report any changes in its ownership structure (including the appointment of an officer within a corporation) by submitting a new Certification and Disclosure form indicating the new owner(s) and reporting said owner(s) contributions.

I certify that the foregoing statements in Parts 1, 2 and 3 are true. I am aware that if any of the statements are willfully false, I may be subject to punishment.

Signed Name _____ Print Name _____

Title/Position _____ Date _____

Procedure for Submitting Form(s)

The contracting State Agency should submit this form to the Chapter 51 Review Unit when it has been required as part of a contracting process. The contracting State Agency should submit a copy of the completed and signed form(s), to the Chapter 51 Unit and retain the original for their records.

The business entity should return this form to the contracting State Agency. The business entity can submit this form directly to the Chapter 51 Review Unit only when it –

- Is approaching its two-year certification expiration date and wishes to renew certification;
- Had a change in its ownership structure; **OR**
- Made any contributions during the period in which its last two-year certification was in effect, or during the term of a contract with a State Agency.

**Forms should be submitted either electronically to: cd134@treas.nj.gov , or regular mail at:
Chapter 51 Review Unit, P.O. Box 230, 33 West State Street, Trenton, NJ 08625.**

“EXHIBIT G”

**TRADE SHOP DEVELOPMENT PROJECT
Atlantic City Convention Center
1 Convention Boulevard
Atlantic City, New Jersey
BID FORM**

I have carefully examined the plans for “Trade Shop Development Project” located at “Atlantic City Convention Center, 1 Convention Boulevard, Atlantic City, New Jersey” as prepared by Netta Architects. I have further inspected the site of the proposed work and will contract to perform the work in full and agree to furnish all Labor and Materials to fully complete the work as indicated in the Contract Documents in the manner prescribed therein.

GENERAL CONDITIONS

	ITEM DESCRIPTION	UNIT	
<u>DOLLARS/CENTS</u>			
	GENERAL CONDITIONS, INCLUDING THE FOLLOWING COSTS: INSURANCE, BONDS, SUPERVISION, ADMINISTRATION, ETC.	L.S	

DEMOLITION

KEY NOTE ITEM	ITEM DESCRIPTION	UNIT	
<u>DOLLARS/CENTS</u>			

(i) AS INDICATED ON

(ii) DWG A-101

2	REMOVE PAPER TOWEL DISPENSER	L.S	
3	REMOVE THE BATHROOM FLOORING	L.S.	

CONSTRUCTION

KEY NOTE ITEM	ITEM DESCRIPTION	UNIT	
<u>DOLLARS/CENTS</u>			

(iii) AS INDICATED ON

(iv) DWG A-101

1	PROVIDE NEW CUSTOM PARTITION CUBICLE	L.S	
2	PROVIDE 2'X6' CUSTOM MILLWORK STATION	L.S.	
3	PROVIDE OFFICE DESK AND CHAIR	L.S.	
4	PROVIDE HEAVY DUTY STEEL SHELVING	L.S.	
5	PROVIDE METAL LOCKERS	L.S.	
6	PROVIDE FLOOR DRILL PRESS	L.S.	
7	PROVIDE ELECTRIC AIR COMPRESSOR	L.S.	

8	NOT USED		
9	PROVIDE INFRASTRUCTURE FOR THE RELOCATED BMS SYSTEM	L.S.	
10	PROVIDE INFRASTRUCTURE FOR THE NEW FIRE ANNUNCIATOR PANEL	L.S.	
11	PROVIDE NEW UTILITY SINK	L.S.	
12	PROVIDE NEW EYE WASH/EMERGENCY SHOWER	L.S.	
13	PROVIDE NEW ADA TRANSFER SHOWER AND FOLDING SEAT ASSEMBLY	L.S.	
14	EXISTING TOILET ACCESSORIES TO REMAIN		NOT APPLICABLE
15	REMOVE AND RELOCATE THE PAPER TOWEL DISPENSER AND TRASH DISPOSAL	L.S.	
16	PROVIDE NEW TOILET FIXTURE	L.S.	
17	EXISTING GRAB BARS AND TOILET ACCESSORIES TO REMAIN		NOT APPLICABLE
18	PROVIDE NEW BATHROOM FLOORING	L.S.	
19	PROVIDE NEW FLOOR FINISH	L.S.	
20	PROVIDE NEW 18" VERTICAL GRAB BAR	L.S.	
21	REMOVE AND RELOCATE THE SOAP DISPENSER	L.S.	
22	REMOVE AND RELOCATE THE TOILET SEAT COVER DISPENSER	L.S.	

TOTAL BASE BID:

Bidders Name: _____

Written in Words

Written in Figures

We, the Undersigned, acting through its authorized officers and intending to be legally bound, agree that this bid proposal shall constitute an offer by the Undersigned to enter into a Contract with the acts and things

therein provided, which offer shall be irrevocable for sixty (60) calendar days from the date of opening hereof and that the Owner may accept this offer at any time during said period by notifying the Undersigned of the acceptance of said offer.

Printed Name

Date

Signature

Date

Exhibit H
NON-COLLUSION AFFIDAVIT

STATE OF _____)

: SS:

COUNTY OF _____)

I, _____,

of the City of _____,

in the County of _____,

and the State of _____,

of full age, being duly sworn according to law on my oath depose and say that:

I am (Title) _____

of (Bidder's name), _____,

Making a bid in response to OAKVIEW VENUE GROUP's Solicitation of Bids for **TRADE SHOP UPGRADE**, and that I executed the said bid with full authority so to do; that the said Bidder has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action, in restraint of free competition, in connection with said bid; and that all statements contained in the said bid and in this Affidavit are true and correct, and made with full knowledge that OAKVIEW VENUE GROUP relies upon the truth of the statements contained in the said bid, in this Affidavit and in any statements requested by OAKVIEW VENUE GROUP showing evidence of qualifications in awarding a contract based upon said bid.

I further warrant that no person or selling agency has been employed or retained to solicit or secure said bid upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by the Bidder.

Authorized Signature

SWORN and SUBSCRIBED to me this
_____ day of _____, 2026

NOTARY PUBLIC

COMMISSION EXPIRES

Exhibit I

**CONTRACT AND SPECIFICATIONS FOR GENERAL
CONSTRUCTION**

PROJECT OWNER:

OAKVIEW VENUE GROUP as operator of Jim Whelan Boardwalk Hall and the Atlantic City
Convention Center, as managing agent for Casino Reinvestment Development Authority
2301 Boardwalk
Atlantic City, New Jersey 08401
Phone: 609-348-7026

(JULY 17, 2026)

Article II. 00500 Agreement

[INSERT FULL CONTRACTOR NAME AND ADDRESS BELOW:]

(hereinafter referred to as the “Contractor”)

THIS AGREEMENT (the “Agreement”) is made as of this ____ day of _____, 2026, by and between the OAKVIEW VENUE GROUP, as agent on behalf of CASINO REINVESTMENT DEVELOPMENT AUTHORITY (“CRDA”), a public body corporate and politic constituting an instrumentality of the State of New Jersey, and the Contractor identified above.

Recitals

A. Pursuant to a solicitation of bids issued _____ of 2026 (the “Solicitation”) and the Contractor’s response thereto dated _____, 2026 (the “Bid”), OAKVIEW VENUE GROUP has selected the Contractor to provide construction services, as more fully described in this Contract.

B. OAKVIEW VENUE GROUP desires to engage and the Contractor desires to accept the engagement to perform the Work (as hereinafter defined).

IN CONSIDERATION of the foregoing recitals, the mutual promises and agreements set forth herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. All capitalized terms not otherwise defined, shall have the meaning ascribed to them in Section 00700.2 herein.
2. The Contractor will commence and complete the Project, and all other necessary and desirable work as approved in accordance with the terms and conditions of the Contract Documents.
3. The Contractor will furnish all of the material, supplies, tools, equipment, labor and other services necessary and desirable for the completion of the Project.
4. The Contractor will commence the work required by the Contract Documents within thirty (30) calendar days after the date of the Notice to Proceed and will substantially complete the same within (9) **work weeks** pending lead time for all critical material, of the date of the Notice to Proceed.
5. The Contractor agrees to perform all of the Work described in the Contract Documents and comply with the terms and conditions herein and therein for the Total Contract Price.
6. The term “Contract Documents” means and includes the following:
 - a. Contract
 - b. General Conditions
 - c. Payment Bond

- d. Performance Bond
- e. Payment Application (as set forth in Attachment "A")
- f. Notice to Proceed (as set forth in Attachment "B")
- g. Change Orders (as set forth in Attachment "C")
- h. Construction Change Directive
- i. Progress Schedule (as amended)
- j. Supplementary Agreements
- k. Drawings prepared by the Engineer
- l. Specifications prepared by the Engineer
- m. Written Addenda or Amendments as executed by the Owner and Contractor
- n. Any other written instructions or interpretations by the Engineer or Owner
- o. Owner's Bid Documents
- p. Contractor's bid dated _____, except for any provisions inconsistent with the Contract Documents, unless such inconsistency is accepted or waived, in writing, by the Owner.

- 7. In the event of a conflict between Division 1 and Division 2 terms and conditions set forth in this contract and the Division 1 and Division 2 terms and conditions set forth on the Architect drawings, the Division 1 and Division 2 terms and conditions set forth in this contract shall prevail.
- 8. The Owner will pay the Contractor in the manner and at such times as set forth in the General Conditions such amounts as required by the Contract Documents.
- 9. This Contract shall be binding upon all parties hereto and their respective successors and permitted assigns.

IN WITNESS WHEREOF, the parties hereto have executed or caused to be executed by their duly authorized representatives, this Contract in four (4) copies each, any of which shall be deemed an original, on the date first above written.

[SIGNATURES APPEAR ON NEXT PAGE]

Witness:

OAKVIEW VENUE GROUP

By: _____

By: _____

Name: _____

Name:

Title: _____

Title:

[CONTRACTOR MUST FILL IN AND SIGN BELOW:]

Witness:

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

ACKNOWLEDGEMENT AS TO CONTRACTOR

STATE OF _____:

COUNTY OF _____:

The foregoing instrument was acknowledged before me this _____ day of _____, 2026, by _____, as the _____ of _____, a _____ company, organized under the laws of _____, who I am satisfied, is the person who, as such authorized person, signed, sealed and delivered the within instrument made by said company, and he did acknowledge that he/she, as such authorized person, signed and delivered the same on behalf of said company for the uses and purposes therein set forth, and that said instrument is the voluntary act and deed of said company duly authorized by a proper resolution of its governing body.

Name:

Notary Public of _____

(NOTARY SEAL)

My Commission Expires:

ACKNOWLEDGMENT AS TO OAKVIEW VENUE GROUP

STATE OF NEW JERSEY:
COUNTY OF ATLANTIC:

On this ____ day of _____, 2026 in the County and State aforesaid, before me, the subscriber, a Notary Public authorized to take acknowledgments and proofs in said County and State, personally appeared _____, the _____ of Global Spectrum, L.P., a Delaware limited partnership, as operator of Jim Whelan Boardwalk Hall and the Atlantic City Convention Center, as managing agent for the Casino Reinvestment Development Authority, who I am satisfied, in the person who, a such officer of said entity, signed, sealed and delivered the within instrument made by said entity, and he did acknowledge that he, as such officer, signed and delivered the same on behalf of said entity for the uses and purposes therein set forth, and that said instrument is the voluntary act and deed of said entity duly authorized by a proper resolution of the entity.

Name:
Notary Public
My Commission Expires:

(NOTARY SEAL)

Attachment "A" Application for Payment (Or Equivalent Owner Approved AIA G702)

NO. _____

To: _____ (OWNER)

From: _____ (CONTRACTOR)

Contract: _____

Project: _____

Contract No. _____.

For Work accomplished through the date of: _____.

- | | | |
|----|--|----------|
| 1. | Original Contract Price: | \$ _____ |
| 2. | Net change by Change Orders and Written Amendments (+ or -): | \$ _____ |
| 3. | Current Contract Price (1 plus 2): | \$ _____ |
| 4. | Total completed and stored to date (See Invoice Summary): | \$ _____ |
| 5. | Retainage (per Contract): | |
| | _____ % of completed Work: | \$ _____ |
| | _____ % of stored material: | \$ _____ |
| | Total Retainage: | \$ _____ |
| 6. | Total completed and stored to date less retainage (4 minus 5): | \$ _____ |
| 7. | Less previous Application for Payments: | \$ _____ |
| 8. | DUE THIS APPLICATION (6 MINUS 7): | \$ _____ |

CONTRACTOR'S CERTIFICATION:

THE UNDERSIGNED CONTRACTOR CERTIFIES THAT (1) ALL PREVIOUS PROGRESS PAYMENTS RECEIVED FROM OWNER ON ACCOUNT OF WORK DONE UNDER THE CONTRACT REFERRED TO ABOVE HAVE BEEN APPLIED ON ACCOUNT TO DISCHARGE CONTRACTOR'S LEGITIMATE OBLIGATIONS INCURRED IN CONNECTION WITH WORK COVERED BY PRIOR APPLICATIONS FOR PAYMENT NUMBERED 1 THROUGH _____ INCLUSIVE; AND (2) ALL WORK COVERED BY THIS APPLICATION FOR PAYMENT IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND NOT DEFECTIVE.

Accompanying this Application for Payment is the duly executed Contractor's Partial Release and Waiver of Liens, the duly executed Partial Release and Waiver of Liens of each of the Contractor's subcontractors and/or suppliers, and all documentation of measurement of unit price Pay Items as required by the Contract Documents and the Engineer.

Dated _____ By: _____ Contractor

State of _____

County of _____

Subscribed and sworn to before me this _____
day of _____, 2026

Notary Public

My Commission expires: _____

Attachment "A" - Continued (Or Equivalent Owner Approved AIA G703)

Invoice Summary
Section 2.01

Pay Item	Description	Original Lump Sum	Change Orders	Revised Lump Sum	Percent Completed	Previously Billed	Current Billing	Total Billing
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
SUBTOTAL - Unit Price Items						_____	_____	_____
SUBTOTAL – Lump Sum Items						_____	_____	_____
TOTAL – All Items						_____	_____	_____

Attachment "B" Notice to Proceed

Dated: _____

TO: _____
(Contractor)

ADDRESS: _____

Contract: DATED AS OF _____

Project: _____

You are notified that the Contract Time under the above contract will commence to run on this date. You are now authorized to enter upon the Project site and start performing your obligations under the Contract Documents. The date of Substantial Completion is:

Before you may start any Work at the Site, Section 00620 of this Contract provides that you must deliver to the Owner (with copies to Engineer and other identified additional insureds) certificates of insurance along with the declaration pages, which are required to be purchased and maintained in accordance with the Contract Documents.

OAKVIEW VENUE GROUP

By: _____

Name: Clark Hughes

Title: Director Capital Projects Procurement

Copy:

Attachment "C" Change Order

No. _____

DATE OF ISSUANCE _____

EFFECTIVE DATE _____

OWNER _____

CONTRACTOR _____

Contract: _____

Project: _____

Contract No. _____

ENGINEER _____

You are directed to make the following changes in the Contract Documents:

Description:

Reason for Change Order:

Attachments: (List documents supporting change)

CHANGE IN CONTRACT PRICE:
Original Contract Price \$ _____
Net Increase (Decrease) from previous Change Orders No. ____ to ____: \$ _____
Contract Price prior to this Change Order: \$ _____
Net increase (decrease) of this Change Order: \$ _____
Contract Price with all approved Change Orders: \$ _____

CHANGE IN CONTRACT TIMES:
Original Contract Times: Substantial Completion: _____ Ready for final payment: _____ (days or dates)
Net change from previous Change Orders No. ____ to No. ____: Substantial Completion: _____ Ready for final payment: _____ (days)
Contract Times prior to this Change Order: Substantial Completion: _____ Ready for final payment: _____ (days or dates)
Net increase (decrease) this Change Order: Substantial Completion: _____ Ready for final payment: _____ (days)
Contract Times with all approved Change Orders: Substantial Completion: _____ Ready for final payment: _____ (days or dates)

RECOMMENDED:

APPROVED:

ACCEPTED:

By: _____
ENGINEER (Authorized Signature)

By: _____
OWNER (Authorized Signature)

By: _____
CONTRACTOR (Authorized Signature)

Date: _____

Date: _____

Date: _____

Attachment "C" - Continued

Partial Release and Waiver of Liens

WHEREAS the undersigned is the Contractor furnishing work, services, materials or equipment upon real estate operated by OAKVIEW VENUE GROUP, as operator of Jim Whelan Boardwalk Hall and the Atlantic City Convention Center, as managing agent for the Casino Reinvestment Development Authority in furtherance of that certain **TRADE SHOP UPGRADE GENERAL CONTRACTORS** hereinafter referred to as "Owner").

Receipt is acknowledged of \$ _____, which represents partial payment, bringing the total paid to date against our Contract to \$ _____ for work, services, materials and/or equipment furnished and installed by us at the above referenced project, the undersigned does hereby waive, release and relinquish the Owner and the Building/Land from any and all claims and/or construction liens pursuant to N.J.S.A. 2A:44A-1 *et seq.* relating to this Project, to the extent of \$ _____.

We do not waive or release any future lien rights for additional labor and/or materials furnished hereafter in performance of the project.

We agree to hold the Owner and the Building/Land harmless against any claim made or lien filed by any of our material suppliers and subcontractors who performed work or supplied materials for the Project to-date.

In addition, the undersigned warrants: (a) that any claims for payment for work, services, materials and/or equipment furnished in the construction or repair of the aforesaid real estate and improvements have not been assigned and will not be assigned; (b) that all laborers, subcontractors and suppliers of the undersigned who have or will have furnished work, services, materials and/or equipment in the construction or repair of the aforesaid real estate and improvements have been or will be fully paid and that none of such laborers, subcontractors or suppliers have or will have any claim, demand or lien against the aforesaid real estate and improvements; and (c) that no financing statement, chattel mortgage, security interest, conditional bill of sale or retention of title agreement has been given or executed or will be given or executed for or in connection with any materials, appliances, machinery, fixtures or furnishings placed upon or installed, or to be placed upon or installed, in the aforesaid real estate and improvements by the undersigned.

IN WITNESS WHEREOF, the undersigned has executed and sealed this Partial Release and Waiver of Liens this _____ day of _____, 2026.

Paid to date: \$ _____

NAME OF CONTRACTOR: _____

By: _____

Title: _____

WITNESS: _____

00550 Notice to Proceed

Upon execution of the Contract by the Owner, a fully executed copy, together with a Notice to Proceed in the form attached hereto as Attachment “B”, will be provided to the Contractor, provided however, that such Notice shall only be issued after Owner’s receipt of all required approvals. Receipt of the executed Contract and Notice to Proceed shall constitute the Contractor’s authority to enter upon the Project site, provided the Contractor has submitted to the Owner, and the Owner has accepted, the insurance certificates and declaration pages required under Subsection 00620 and a preconstruction conference has been held pursuant to Subsection 01310.5(1). Construction operations shall not begin until the Contractor has supplied, and the Engineer and/or Owner has accepted, Insurance Certificates, the Progress Schedule, bonds and certifications, forms, schedules, and any other reasonable request by the Global Spectrum or submittals required by the Contract Documents.

Construction operations shall begin within thirty (30) calendar days of the Notice to Proceed. The Notice to Proceed is the first day of the Contract Time. Failure of the Contractor to begin operations within thirty (30) calendar days for any reason shall constitute a Contractor delay. Failure to begin operations within forty-five (45) calendar days shall constitute a default for which the Owner may take whatever action deemed appropriate under the Contract, in the Owner’s sole and absolute discretion.

The Contractor is not entitled to additional compensation or extension of Contract Time for any delay, hindrance, or interference caused by or attributable to commencement of Work before the twentieth day following the Notice to Proceed.

The Contractor shall give the Engineer at least 72 hours advance notice in writing of its intention to start operations.

00600 Bonds, Insurance and Representations

00610 *Performance Bond and Payment Bond*

Within ten (10) business days of the date of the Notice of Proceed, the Contractor shall complete and deliver a Performance Bond and a Payment Bond satisfactory to the Owner.

Each bond shall be the sum of not less than the Total Contract Price less the lump sum bid for the Pay Item “Performance Bond and Payment Bond” and shall be maintained by the Contractor until Acceptance. In the event of the insolvency of the surety or if the Performance Bond and Payment Bond have not been properly authorized or issued by the Surety company, the Contractor shall furnish and maintain, as above provided, other surety satisfactory to the Owner.

All alterations, extensions of Contract Time, extra and additional work, and other changes authorized by the Contract Documents may be made without securing the consent of the surety or sureties of the bonds.

The surety corporation bonds shall be furnished by only those sureties listed in the US Treasury Department Circular 570 and authorized to do business in the State of New Jersey. The bonds shall be accompanied by a certification as to authorization of the attorney-in-fact to commit the surety company and a true and correct statement of the financial condition of said surety company.

Payment for the Performance Bond and the Payment Bond will be made upon commencement of work on the basis of Pay Item No. 1 as set forth in The Fee Schedule or the actual cost (gross premium), whichever is less, upon submission of a paid bill and the report of execution issued by the Surety showing the gross premium of the bonds and the broker’s fee. Upon Completion, the Owner’s payment for the Performance

and Payment Bond will be adjusted to reflect any increase or decrease in the actual cost of the bonds. Any increase will be based upon the rate schedule certified by the Surety and submitted by the Contractor at the beginning of the Project. If the certified schedule and the paid bill are not submitted at the beginning of the Project, no adjustment will be made. Any increase or decrease in the actual cost of the bonds of less than one hundred dollars will be disregarded. The adjustment will be calculated on whichever of the following methods results in the lowest adjustment:

1. The difference between the actual cost paid by the Contractor before the commencement of work and the paid final bill submitted by the surety company or agent.
2. The difference between the actual cost paid by the Contractor before the commencement of work and the final amount as calculated by using the certified schedule submitted at the beginning of the Project.

If the amount of this final bill reflects an increase in the cost of the Performance and Payment Bonds, the Owner will pay the Contractor the amount as determined above in the final payment to be made to the Contractor after Acceptance. If the amount of the final bill reflects a decrease in the cost of the Payment and Performance Bonds, the Owner will deduct that amount from the final payment made to the Contractor after Acceptance.

Payment will be made under:

<i>Pay Item</i>	<i>Pay Unit</i>
PERFORMANCE BOND AND PAYMENT BOND	LUMP SUM

00620 Insurance

The Contractor shall procure and maintain, until Acceptance and at all times thereafter when the Contractor may be correcting, removing, or replacing defective work, insurance for liability for damages imposed by law and assumed under the Contract, of the kinds and in the amounts hereinafter provided, with insurance companies authorized to do business in the State of New Jersey. Within five (5) business days of the Notice of Award, the Contractor shall furnish to the Owner a certificate or certificates of insurance together with declaration pages, in a form satisfactory to the Owner, showing that the Contractor has complied with this Subsection. Insurance binders are not acceptable as a form of insurance certificate. All of the policies of insurance required to be purchased and maintained and the certificates, declaration pages, or other evidence thereof shall contain a provision or endorsement that the coverage afforded is not to be canceled, materially changed, or renewal refused until at least 30 days prior written notice has been given to the Engineer and Owner by certified mail. All certificates, notices, or declaration pages shall be submitted to the Engineer Attention:

BRULIO ROSSY <BROSSY@NETTAARCHITECTS.COM>

and Owner Attention: **Clark Hughes, OAKVIEW VENUE GROUP, 2301 Boardwalk, Atlantic City, NJ 08401**. Within five (5) days of commencing Work, the Contractor shall furnish the Owner with a certified copy of each policy of insurance, including the provisions establishing premiums.

Contractor shall obtain and maintain the types of insurance and minimum limits of liability as follows:

1. **Comprehensive General Liability Insurance.** The minimum limit of liability shall be \$5,000,000 per occurrence as a combined single limit for bodily injury and property. Any excess or umbrella policy obtained by the Contractor so that the minimum limit of liability is provided shall contain a clause stating that it takes effect (drops down) in the event the primary coverage is impaired or exhausted.

The above-required Comprehensive General Liability policy shall name the Owner, its officers, and employees, Casino Reinvestment Development Authority, its officers and employees, and the Casino Licensees and the City of Atlantic City, New Jersey, and their respective governing bodies, as additional insureds.

The coverage to be provided under this policy shall be at least as broad as that provided by the standard basic, unamended, and unendorsed comprehensive general liability coverage forms currently in use in the State of New Jersey, which shall not be circumscribed by an endorsement limiting the breadth of coverage. Moreover, such policy shall be endorsed so as to delete any exclusions applying to property damage liability arising from explosions or arising from damage to underground utilities and collapse of foundations.

The insurance policy shall be endorsed to include contractual liability coverage, premises/operations coverage, products/completed operations coverage, broad form property damage coverage, independent contractor's coverage, and personal injury coverage.

The Contractor shall provide documentation from the insurance company that indicates the cost, if any, of naming the Owner, its members, officers, employees, and other parties as additional insureds.

2. **Comprehensive Automobile Liability Insurance.** The policy shall cover owned, non-owned, and hired vehicles with minimum limits of liability in the amount of \$1,000,000 per occurrence as a combined single limit for bodily injury and property damage, together with excess coverage or umbrella coverage with the same terms and conditions as the primary underlying coverage (following form) in an amount such that the primary and excess coverage or primary and umbrella coverage together equals or is greater than \$5,000,000. Said excess or umbrella policy shall contain a clause stating that it takes effect (drops down) in the event the primary coverage is impaired or exhausted.
3. **Owner's and Contractor's Protective Liability Insurance.** The Contractor shall provide a separate Owner's and Contractor's Protective Liability Insurance Policy. The minimum limit of liability shall be \$5,000,000 per occurrence as a combined single limit for bodily injury and property damage. The policy is to be written for the benefit of the Owner, its members, directors, officers and employees, and they are to be named as the insured. The Casino Licensees and the City of Atlantic City, New Jersey are to be additional insureds.
4. **Workers Compensation and Employer's Liability Insurance.** Workers Compensation Insurance shall be provided according to the requirements of the laws of the State of New Jersey, and shall include an all states endorsement to extend coverage to any State that may be interpreted to have legal jurisdiction. Employer's Liability Insurance shall be provided with the following minimum limits:
 - a. \$100,000 each accident
 - b. \$100,000 Disease each employee
 - c. \$500,000 Disease aggregate limit

Insurance coverage in the minimum amounts set forth herein shall not be construed to relieve the Contractor for liability in excess of such coverage, nor does it preclude the Owner from taking such other actions as are available to it under any other provisions of this Contract or otherwise at law.

All proof of insurance submitted to the Owner shall clearly set forth all exclusions and deductible clauses. Standard exclusions will be allowed provided they are not inconsistent with the requirements of this Subsection. Allowance of any additional exclusions is at the discretion of the Owner. Regardless of the allowance of exclusions or deductions, the Contractor shall be responsible for the deductible limit of the policy and all exclusions consistent with the risks it assumes under this Contract and as imposed by law.

In the event that the Contractor provides evidence of insurance in the form of certificates of insurance, valid for a period of time less than the period during which the Contractor is required by the terms of the Contract to maintain insurance, said certificates are acceptable, but the Contractor shall be obligated to renew its

insurance policies as necessary and to provide new certificates of insurance so that the Owner is continuously in possession of evidence of the Contractor's insurance according to the foregoing provisions.

In the event the Contractor fails or refuses to renew its insurance policy, or the policy is canceled, terminated, or modified so that the insurance does not meet the requirements of this Subsection, the Owner may refuse to make payment of any further monies due under this Contract or refuse to make payment of monies due or coming due under other contracts between the Contractor and the Owner. The Owner may use monies retained under this paragraph to renew the Contractor's insurance for the periods and amounts referred to above. Alternately, the Owner may default the Contractor and direct the Surety to complete the Project. During any period when the required insurance is not in effect, the Engineer may suspend performance of the Contract. If the Contract is so suspended, additional compensation or extension of Contract Time is not due on account thereof.

Payment for any of the required insurance for this Project is included in the Total Contract Price, and Contractor shall not be entitled to any further or additional compensation in regard to fulfilling the requirements of this Subsection.

00630 *Representations*

00630.1 RESERVED

00630.2 Summary of Work.

The Project consists of the MODIFICATION OF THE JIM WHELAN LOBBY AUDIO VIDEO DISPLAYS.

00630.4 Permits.

The Contractor shall secure and pay for all permits, approvals, government fees, licenses, and inspections necessary for the proper execution and performance of the Work. Contractor shall deliver to the Engineer all original licenses, permits and approvals obtained by the Contractor in connection with the Work prior to the final payment or upon termination of the Contract, whichever is earlier. (Permits are filed through the New Jersey Department of Community Affairs)

00630.5 Examination of Contract Documents and Site of Project

The Contractor has examined carefully the site of the proposed Project and the Contract Documents before execution of the Contract. The execution of this Contract is conclusive evidence that the Contractor has made such examination and is fully aware of the conditions to be encountered in performing the Work and is fully aware of the requirements of the Contract Documents and has considered the following:

1. **Investigation of subsurface and Surface Conditions.** Where the Owner has made investigations of subsurface conditions in areas where Work is to be performed under the Contract, or in other areas, some of which may constitute possible local material sources, such investigations are made only for the purpose of study, estimating and design. Where such investigations have been made, the records of the Owner as to such investigations have been made available to the Contractor, subject to and upon the conditions set forth herein. In the event the Contractor's site examination reveals that site conditions are inconsistent with the Contract Documents, the Contractor shall immediately notify the Engineer.

2. **Project Areas and Access Location Availability.** The Contractor shall consider the effect on its work schedule of any delays in Project Area and access availability. The execution of this Contract shall be considered conclusive evidence that the Contractor has considered such delays and made allowance for them in the Progress Schedule.
3. **Utilities.** The Contractor shall consider the effect on its work schedule the existence and requirement to avoid or temporarily relocate utilities. The Contractor shall consider, in its fee schedule submission, the implementation of temporary utilities and permanent utilities required for performance of the Work.
4. **Other Contractors.** The Contractor shall examine the Project site and adjacent areas so as to be fully aware of other contractors working on or adjacent to the site. The Contractor shall become fully aware of the operations of such contractors and how their operations may affect Contractor's progress. The Contractor shall also consider and allow for the right of the Owner at any time to contract for and perform other or additional work in, on or near the Project Area.
5. **Existing Structures.** The Contractor shall be familiar with existing structures located within the Project Area. However, all structures, as identified by the Engineer as "not to be disturbed," shall be avoided and protected by the Contractor in order to complete the Work. The Contractor must cooperate with the Owner of the structure to minimize conflict with the operation of the building. The Contractor must avoid disruption of utility service and life safety systems to the occupants of the building. The Contractor must also protect the owners and patrons of the retail operations within the building from injury resulting from construction operations, equipment installation and demolition activities.

00700 General Conditions

00700.1 General

The titles and headings of the Section, Subsections, and Subparts herein are intended for convenience of reference and shall not be considered as having bearing on their interpretation.

Working titles that have a masculine gender, such as "workman," "foreman," "materialman," and "flagman" are used in the Contract Documents for the sake of brevity, and are intended to refer to persons of either sex.

When a publication is specified, it refers to the most recent date of issue, including interim publications, before the date of the receipt of proposals for the Project unless the issue as of a specific date or year is provided for.

Whenever a slope is indicated in the Specifications, it is given in horizontal to vertical dimensions. The horizontal will be indicated with an "H" and the vertical will be indicated with a "V."

00700.2 Terms

When the following terms are used in the Contract Documents, the intent and meaning shall be as follows:

ACCEPTANCE. The term "Acceptance" means the formal written acceptance, by the Owner, of the Project that has been completed in all respects according to the Contract Documents.

ACCEPTANCE TESTING. Testing conducted by the Engineer to measure the degree of compliance to the Contract Documents.

ENGINEER. The term “Engineer” means NETTA Architects, the Owner’s professional Architect acting directly or through the Engineer’s duly authorized representatives, such representatives acting within the scope of the particular duties delegated to them.

To avoid repetition, unless otherwise stated, whenever the following words are used, it shall be understood as if they were followed by the words “to the Engineer” or “by the Engineer”: “acceptable, accepted, added, allowed, applied, approved, assumed, authorized, awarded, calculated, charged, checked, classified, computed, condemned, conducted, considered, considered necessary, contemplated, converted, deducted, deemed, deemed necessary, deleted, designated, determined, directed, disapproved, divided, documented, established, evaluated, examined, excluded, furnished, given, granted, included, incorporated, increased, indicated, inspected, insufficient, issued, made, marked, measured, modified, monitored, notified, observed, obtained, opened, ordered, paid, paid for, performed, permitted, provided, received, recorded, reduced, re-evaluated, rejected, removed, required, reserved, retested, returned, sampled, satisfactory, scheduled, specified, stopped, submitted, sufficient, suitable, supplied, suspended, taken, tested, unacceptable, unsatisfactory, unsuitable, or used.”

BY OTHERS. The term “by others” refers to a person, firm, or corporation other than the Contractor or its surety or persons, firms, or corporations in a contractual relationship with the Contractor or the surety, such as a subcontractor, supplier, fabricator, or consultant at any tier.

CALENDAR DAY. Each and every day shown on the calendar.

CASINO LICENSEE. The term “Casino Licensee” shall mean all casino licensees that contribute funding to the CRDA, and their respective directors, officers and employees.

CHANGE ORDER. The term “Change Order” means a written order issued by the Engineer and the Global Spectrum to the Contractor after execution of the Contract as set forth in Attachment “C” authorizing one or more of the following:

1. Changes in the Work.
2. Adjustments in the basis of payment for the Work affected by the changes.
3. Adjustments in the Contract Time.
4. Adjustments to the Scope of Work

CITY. The term “City” shall mean the City of Atlantic City, New Jersey.

COMPLETION. The term “Completion” means Completion of the Work. Completion shall occur when:

1. the Work has been satisfactorily completed in all respects according to the Contract Documents and punch list items are finalized and complete;
2. the Contractor has satisfactorily executed and delivered to the Engineer and/or Owner all documents, certificates, and proofs of compliance required by the Contract Documents, it being understood that the satisfactory execution and delivery of said documents, certificates, and proofs of compliance is a requirement of the Contract.

CONSTRUCTION CHANGE DIRECTIVE. A construction change directive is a written order prepared by the Engineer and signed by the Owner and Engineer, directing a change in the Work prior to the issuance of a Change Order.

CONSTRUCTION OPERATIONS. Construction operations shall include mobilization, movement or installation of utilities, construction, punch list and final clean up of the site.

CONTRACT. The term “Contract” means the entire and integrated agreement between the parties there-under and supersedes all prior negotiations, representations, or agreements, either written or oral. The Contract Documents form the Contract between the Owner and the Contractor setting forth the obligations of the parties there-under, including, but not limited to, the performance of the Work and the basis of payment.

CONTRACT DOCUMENTS. The term “Contract Documents” consist of the Contract between Owner and Contractor, Conditions of the Contract, Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Contract and Modifications issued after execution of the Contract.

CONTRACT TIME. The term “Contract Time” means the number of Calendar Days including authorized adjustments allowed for Completion. This Calendar Day Contract shall be completed on or before the day indicated even when that date is a Saturday, Sunday, or holiday.

CONTRACTOR. The term “Contractor” means the individual, firm, partnership, corporation, or any acceptable combination thereof contracting with the Owner for performance of the prescribed Work. Throughout the Contract Documents, the Contractor is referred to as if singular in number. The term “Contractor” means the Contractor or the Contractor’s authorized representative.

COUNTY. The term County means the County of Atlantic, New Jersey.

CRDA. The term “CRDA” shall mean the Casino Reinvestment Development Authority.

CURRENT CONTROLLING OPERATION OR OPERATIONS. The current controlling operation or operations is to be construed to include any feature of the Work, which, if delayed at the time in question, delays the overall time of Completion.

DAYS. Unless otherwise designated, days, as used in the Contract Documents, means Calendar Days.

DISPUTE. The term dispute is defined as a disagreement between the Owner and the Contractor with regard to the Work or Contract Documents.

DRAWINGS. The Drawings are the graphic and pictorial portions of the Contract Documents prepared by the Engineer and Architect, showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

EQUIPMENT. Equipment means all machinery and equipment, together with the necessary supplies for upkeep and maintenance, and also tools and apparatus necessary for the proper construction of the Work.

EXTRA WORK. The term “Extra Work” means new and unforeseen work found essential to the satisfactory completion of the Project, as determined by the Engineer, and not covered by any of the various Pay Items set forth in Exhibit “G”. In the event portions of such work are determined by the Engineer to be covered by one of the various Pay Items set forth in Exhibit “G” or combinations of

such items, the remaining portion of such work will be designated as Extra Work. Extra Work also includes work specifically designated as Extra Work in the Contract Documents.

EXTREME WEATHER CONDITIONS. When, solely as a result of adverse weather, the Contractor is not able to work, the Contractor is entitled to claim that progress of the Work has been affected by extreme weather conditions and may seek an extension of Contract Time consistent with the provisions of Subsection 01310.11A.

HOLIDAYS. The following days shall be considered holidays for use in determination of Working or Business Days:

New Year's Day	Thanksgiving Day
Memorial Day	Christmas Day
Independence Day	President's Day
Labor Day	

INSPECTOR. The Engineer's authorized representative assigned to inspect contract performance, methods, and materials related to the Work both on and off the site of the Project.

ITS OWN ORGANIZATION. The term "Its Own Organization" shall be construed to include only workers customarily employed and paid directly by the Contractor and equipment owned or rented by the Contractor, with or without operators.

MAJOR PAY ITEM. The term "Major Pay Item" means the following categories of the Work: payment and performance bond, site-work, general construction work, roofing and flashing, masonry, tile work, mechanical and electrical work.

MATERIALS. Any substances specified, and approved, for use in the performance of the Project.

MINOR PAY ITEM. The term "Minor Pay Item" includes all categories of the Work that are not defined as a Major Pay Item.

MODIFICATION. A modification is (1) a written amendment to the Contract signed by both parties; (2) a Change Order; (3) a Construction Change Directive or (4) a written order for a minor change in the Work issued by the Engineer.

NOTICE TO PROCEED. The term "Notice to Proceed" means the written notice to the Contractor to begin Work, as set forth in Attachment "B".

NIC. The term "NIC" means work that is not included in the contract. The work will be furnished and installed by the Owner.

OWNER. The term "Owner" means the Global Spectrum L.P. as operator of Boardwalk Hall and the Atlantic City Convention Center, as managing agent for the CRDA, acting directly or through duly authorized representatives, such representatives acting within the scope of the particular duties delegated to them.

PAY ITEM. The term "Pay Item" means a specifically described item of Work for which there is a per unit or lump sum price, as set forth in Exhibit "G".

PERFORMANCE BOND AND PAYMENT BOND. The term “Performance Bond and Payment Bond” means the approved form of security, executed by the Contractor and its surety or sureties, guaranteeing complete performance of the Contract in conformity with the Contract Documents and the payment of all legal debts pertaining to the construction of the Project.

PLANS. The approved plans, profiles, typical sections, cross-sections, working drawings, and supplemental drawings, or exact reproductions thereof, which show the location, character, dimensions, quantities, and details of the Work to be done.

POLICE. The term “police” shall mean a person authorized to enforce the laws of the State of New Jersey and its political subdivisions, who has jurisdiction at the Project site or elsewhere.

PRECONSTRUCTION MEETING AND PROJECT MEETINGS. The initial Project and on-going meetings conducted by the Engineer, held before the start of Work, and during the conduct of the Work, from time to time, as called for.

PROGRESS SCHEDULE. The term “Progress Schedule” means the schedule or timeline prepared by the Contractor to conduct the Work, and which details the periods and milestones for completing the Work, as amended and as approved as provided in the Contract.

PROJECT. The term “Project” means the construction of the Skylight Gutter Renovations Atlantic City Convention Center and all other necessary and desirable work as approved in accordance with the terms and conditions of the Contract.

PROJECT AREA. {Atlantic City Convention Center Atrium Roof}. The Project may include work by others under other contracts.

PROJECT ACCESS LOCATION(S). The specific access points or locations identified on the Project Plans for ingress and egress to the Project Area.

PROPERTY. The specific block and lot identified and as otherwise further delineated in the Specifications and Project Plans.

RETAINAGE. The term, “Retainage” means from the total amounts ascertained as payable in accordance with the Contract, an amount equivalent to ten percent (10%) of the amount due under Contractor’s invoice and Application for Payment deducted and retained by the Owner pending Final Payment.

RIGHT-OF-WAY (ROW). A general term denoting all of the land, property, or interest therein, usually in a strip, acquired for or devoted to transportation purposes or construction of a public improvement.

ROADWAY. The portion of the highway, street, or road within the City that is used by the Contractor to haul, transport materials and equipment to/from the Project Area.

SHALL. Designates an obligation of the Contractor, unless otherwise indicated.

SHOP DRAWINGS. The drawings, diagrams, schedules and other data specifically prepared for the Work by the Contractor or a subcontractor, sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.

SPECIFICATIONS. The compilation of provisions and requirements for the performance of prescribed work , or other information giving interpretations or revisions to them, any and all Supplementary Agreements, and whether expressly incorporated by reference or not, all applicable regulatory requirements, and best manufacturing practice standards.

STANDARD WORKING HOURS. The term “Standard Working Hours” means Monday through Friday and times of 7:00 am to 5:00 pm eastern prevailing time.

STATE. The “State” means the State of New Jersey.

SUBCONTRACTOR. Subcontractor means an individual, firm, partnership, corporation, or any acceptable combination thereof, to which the Contractor subcontracts part of the Work.

SUBMITALS. The documents required to be provided to the Engineer and/or Owner prior to and during the performance of the Work.

SUBSTANTIAL COMPLETION. The term “Substantial Completion” means the point at which the performance of all Work on the Project has been completed but excluding final cleanup and repair of unacceptable Work, and provided the Owner and Engineer have solely determined that:

- (i). the Project is safe and convenient for use by the public, and
- (ii). failure to complete the Work and repairs excepted above does not result in the deterioration of other completed Work.

SUPPLEMENTARY AGREEMENT. The term “Supplementary Agreement” means a bilateral agreement between the Owner and the Contractor, executed on a Change Order form, setting forth the negotiated terms and conditions whereunder changes are to be accomplished, including negotiated adjustments in compensation and time of Completion. The Supplementary Agreement shall be conclusive as to all questions of compensation and extensions of Contract Time relative to the subject of the agreement excepting only those instances wherein the agreement recites specific exceptions.

SURETY. The corporate body bound with and for the Contractor for the full and complete performance of the Contract and for the payment of all debts and obligations pertaining to the Work.

TOTAL ADJUSTED CONTRACT PRICE. The term “Total Adjusted Contract Price” means the Total Contract Price as it is adjusted through the issuance of Change Orders and Construction change directives and the calculation of as-built quantities, if applicable.

TOTAL CONTRACT PRICE. The term “Total Contract Price” means the correctly determined summation of lump sum amounts and products of all quantities of unit price Pay Items multiplied by the unit prices set forth in Exhibit “G.”

TOWN, TOWNSHIP, CITY. A subdivision of the County used to designate or identify the location of the Project.

TRAVELED WAY. The portion of the roadway for the movement of vehicles exclusive of shoulders and auxiliary lanes.

UTILITY. A publicly, privately, or cooperatively owned agency or agencies operated by one or more persons or corporations for public service.

WILL. Designates an action to be taken by the Owner, the Engineer, or any authorized representative, unless otherwise indicated.

WORK. The term “Work” means the furnishing of any and all labor, services, materials, equipment, tools, transportation, supplies, and other incidentals necessary or convenient for the successful completion by the Contractor of the construction described in the Contract Documents and the carrying out of any and all duties and obligations imposed by the Contract Documents on the Contractor.

WORKING OR BUSINESS DAY. Any Calendar Day, exclusive of:

1. Saturdays, Sundays, and holidays;
2. Days on which the Contractor is specifically required by the Contract Documents to suspend construction operations; and
3. Days on which the Contractor is prevented by inclement weather or conditions resulting immediately therefrom adverse to the current controlling operation or operations, as determined by the Engineer, from proceeding with at least 75 percent of the normal labor and equipment force engaged on such operation or operations for at least 60 percent of the total daily time being currently spent on the controlling operation or operations.

Should the Contractor prepare to begin work at the regular starting time in the morning of any day on which inclement weather, or the conditions resulting from the weather, prevent the work from beginning at the usual starting time, and the crew is dismissed as a result thereof, and the Contractor does not proceed with at least 75 percent of the normal labor and equipment force engaged in the current controlling operation or operations for at least 60 percent of the total daily time being currently spent on the controlling operations or operations, the Contractor will not be charged for a Working Day whether or not conditions should change thereafter during said day and the major portion of the day could be considered to be suitable for such construction operations.

00700.3 Intent

The intent of the Contract Documents is to describe a functionally complete and aesthetically acceptable Project to be constructed and completed by the Contractor in every detail according to the Contract Documents. Any Work that may be reasonably inferred from the Contract Documents as being required to produce the intended result shall be supplied whether or not specifically called for. Where the Contract Documents describe portions of the Work in general terms, but not in complete detail, it is understood that only the best construction practice is to prevail and only materials and workmanship of the first quality are to be used. Only where the Contract Documents specifically describe a portion of the Project as being performed by others is the Work deemed not to constitute construction of the entire Project.

00700.4 Changes

The Owner, through the Engineer, reserves the right to make, in writing, at any time during the Work, such changes in quantities and such alterations in the Work as are necessary to satisfactorily complete the Project. Such changes in quantities and alterations do not invalidate the Contract nor release the surety, and the Contractor agrees to perform the work as altered.

If the alterations or changes in quantities significantly change the character of the Work under the Contract, whether such alterations or changes are in themselves significant changes to the character of the Work or, by affecting other work, cause such other work to become significantly different in character, an adjustment, excluding loss of anticipated profits, will be made to the Contract.

The adjustment to the cost resulting from a change in Work shall be determined by the lesser of:

1. By unit prices stated in the Contract Documents; or

2. By cost, defined below, properly itemized and supported by sufficient substantiating documentation to permit evaluation, plus a profit or no more than five percent (5%) of items 'a' through 'e' described below. Such costs shall be itemized by crafts as defined in the schedule of values and limited to the following items directly allocable to the change in the Work:
 - a. Costs of materials, including cost of delivery;
 - b. Fully-burdened cost of labor, including but not limited to, payroll taxes, social security, old age and unemployment insurance, vacation, fringe benefits required by agreement or routinely paid by Contractor, and worker's or workman's compensation insurance;
 - c. Contractor Supervision/Overhead allowance not to exceed ten percent (10%) of 'a' plus 'b'; the parties agree that this mark-up shall fully cover all Contractor overhead;
 - d. Rental value of equipment and machinery to be established by rental receipts and not to exceed reasonable and customary rates for the locale of the Work. For owned equipment, Contractor must prove reasonable rental rate pursuant to actual ownership costs.
 - e. Cost of any subcontracted work subject to the above requirements and limitations.
 - f. Insurance and bond premiums not to exceed a total of 1% of the change order amount.

Any dispute regarding the cost of the change, as calculated above, shall not relieve the Contractor from proceeding with the change as directed by the Owner or Engineer.

If the alterations or changes in quantities do not significantly change the character of the Work to be performed under the Contract, the altered work will be paid for as provided elsewhere in the Contract.

The term "significant change" shall be construed to apply only to the following circumstances:

1. When the character of the Work as altered differs materially in kind or nature from that involved or included in the original proposed construction, or
2. When the as-built quantity of a Major Pay Item, as defined herein, that is based on unit price is in excess of 120 percent or below 80 percent of the original Contract quantity. Any allowance for an increase in quantity shall apply only to that portion in excess of 120 percent of original Contract item quantity, or in case of a decrease below 80 percent, to the actual amount of work performed.

Changes that solely involve the increase or decrease in the quantity of Pay Items (not involving unit price adjustments pursuant to Subsection 00700.7), the elimination of Pay Items, the adjustment of the estimated quantities which are set forth in Attachment "A" as the result of as-built calculations, or minor changes in the Work as provided in 00700.5, may be affected by a Construction change directive or by a Change Order (in the form set forth in Attachment "C"), as determined by the Engineer. All other changes will be included in a Change Order that specifies, in addition to the Work to be done, an adjustment of Contract Time, if any, and the basis of compensation for such Work. A Change Order does not become effective until the Owner has approved the proposed Change Order submitted by the Engineer.

Upon receipt of a Construction change directive or Change Order, the Contractor shall proceed with the ordered Work. Where the changes involved require a Change Order, and a Change Order has not yet been issued, the Owner may direct, by Construction change directive, that the Contractor proceed with the desired Work, and the Contractor shall comply. In such cases, the Owner will, as soon as practicable, issue a Change Order for such Work.

When the compensation for an item of Work is subject to adjustment under the provisions of Subsections 00700.5 through 00700.11 the Contractor shall furnish the Engineer with adequate detailed cost data for such item of Work.

In addition to Construction change directives and Change Orders, the terms and conditions relating to changes may be negotiated with the Contractor. If the Contractor signifies acceptance of such terms and conditions by executing a Supplementary Agreement, and if such Supplementary Agreement is approved by the Owner and issued to the Contractor, payment according to the terms and conditions as to compensation and adjustments in the Contract Time therein set forth constitutes full compensation and a mutually acceptable adjustment of Contract Time for all Work included therein or required thereby. The Contractor agrees that a proposed Supplementary Agreement that is not approved by the Owner or that is rejected by the Contractor shall have no effect and that neither may attempt to use it in any litigation that may result from the Contract.

The Contractor acknowledges and agrees that no claim for additional compensation shall be made because of any alteration, deviation, addition to, or omission from the Work required by the Contract, by reason of any variation between the approximate quantities as set forth in Exhibit "G" and subsequent owner approved schedule of values and the quantities of Work as done, by reason of Extra Work, by reason of elimination of Pay Items, or by reason of changes in the character of Work, except as allowed in this Section.

The Contractor acknowledges and agrees that no claim for additional compensation or extension of Contract Time within the scope of this Section will be allowed if asserted after Acceptance.

00700.5 Minor Changes in the Work.

The Engineer has the authority to order minor changes in the Work not involving an adjustment to the unit or lump sum prices, or an adjustment to Pay Items, or an extension of Contract Time, and not inconsistent with the intent of the Contract Documents. Such changes may be effected by Construction change directive and are binding on the Owner and the Contractor. Additional compensation or extension of Contract Time will not be allowed.

00700.6 Procedure and Protest.

A Construction change directive or Change Order may be issued at any time. Should the Contractor disagree with any terms or conditions set forth in a Construction change directive or a Change Order, the Contractor shall submit a written protest to the Engineer within 5 days after the receipt of such Construction change directive or Change Order on forms furnished by the Engineer as directed by the Owner. The protest shall state the points of disagreement, and, if possible, the specification references, quantities, and costs involved. The protest shall be a specific, detailed statement of the points of disagreement, and the Owner reserves the right to reject general protests. Rejected general protests that are not cured by the submission of a specific, detailed statement within five days of such rejection will not be considered. If a written protest is not submitted, payment will be made as set forth in the Construction change directive or Change Order and such payment constitutes full compensation for all Work included therein or required thereby and also is conclusive as to any Contract Time adjustments provided for therein or in establishing that no Contract Time adjustment was warranted.

Protests related to Work ordered by Construction change directive, but as to which a Change Order is required, shall be made within 5 days after receipt of the Construction change directive. Subsequent issuance of the Change Order shall not be the basis for a protest except to the extent that the Change Order differs materially from the Construction change directive.

Where the protest concerning a Construction change directive or a Change Order relates to compensation, the compensation payable for all Work specified or required by said Construction change directive or Change Order to which such protest relates, if later deemed appropriate by the Owner, will be determined as provided in Subsection 01450.5 through 01450.8. The Contractor shall keep full and complete records

of the cost of such Work and shall permit the Owner and Engineer to have such access thereto consistent with Subsection 01290.9, as may be necessary to assist in the determination of the compensation payable for such Work.

Where the protest concerning a Change Order relates to the adjustment of Contract Time, the time to be allowed, if later deemed appropriate, will be determined as provided in Subsection 01310.11 (Extensions and Reductions of Contract Time).

00700.7 Increased or Decreased Quantities.

Increases or decreases in the quantity of a Pay Item will be determined by comparing the partial or total as-built quantity of such item of Work, as applicable, with the quantity set forth in Exhibit "G" and subsequent owner approved schedule of values or the Project Plans, as applicable. In making such a comparison, quantities that are the subject of Supplementary Agreements or Change Orders for Extra Work will not be considered.

Minor Pay Items are not eligible for any adjustment in unit price regardless of how much the total as-built quantity varies from the quantity set forth in Exhibit "G" and subsequent owner approved schedule of values unless eligible for adjustment pursuant to Subsection 00700.9.

00700.8 Eliminated Items.

Should any Pay Item set forth in Exhibit "G" and subsequent owner approved schedule of values be found unnecessary for the proper completion of the Work, the Engineer may, upon written order to the Contractor, eliminate such item from the Contract. In such case compensation, if any is appropriate, will be made as provided in this Subsection.

If acceptable material is ordered by the Contractor for the eliminated item before the date of notification of such elimination and if orders for such material cannot be canceled, it will be paid for at the actual cost to the Contractor. In such case, the material paid for becomes the property of the Owner, and the actual cost of any further handling will be paid for. If the material is returnable to the vendor and if the Engineer so directs, the material shall be returned, and the Contractor will be paid for the actual cost or charges made by the vendor for returning the material. The actual costs of handling returned material will be paid for.

A reduction in the Contract Time may be made by the Engineer as a result of an eliminated item, if appropriate.

00700.9 Changes in Character of Work.

If the Owner determines that an ordered change in the work materially changes the character of the work of a Pay Item, or a portion thereof, and if the change substantially increases or decreases the actual cost of such changed item as compared to the actual or estimated cost of performing the work of said item according to the Contract Documents originally applicable thereto, in the absence of a Supplementary Agreement or un-protested Change Order specifying the compensation payable, an adjustment in compensation will be made according to the following:

1. The basis of such adjustment in compensation will be the difference between the actual cost to perform the work of said item or portion thereof involved in the change as originally planned or estimated and the actual cost of performing the work of said item or portion thereof involved in the change, as changed. Any such adjustment is to apply only to the portion of the work of said item actually changed in character.
2. If the compensation for an item of Work is adjusted under this Subsection, the costs recognized in determining such adjustment and quantity involved will be excluded from consideration in making an adjustment for such item of Work under the provision in Subsection 00700.7.

Failure of the Owner to recognize a change in character of the Work at the time a Construction change directive or Change Order is issued does not relieve the Contractor of the duty and responsibility of filing a written protest within the five-day limit as provided in Subsection 00700.6.

00700.10 Extra Work.

The Owner reserves the right to require Extra Work as needed for the satisfactory completion of the Project. Such Work will be designated as Extra Work when it is determined by the Engineer that such Work is not required according to the Contract Documents originally applicable thereto. In the event portions of such Work are determined to be required according to the Contract Documents originally applicable thereto, the remaining portion of such Work will be designated as Extra Work. Extra Work also includes Work specifically designated as Extra Work in the Contract Documents.

The Contractor shall do such Extra Work and furnish labor, material, and equipment therefor upon receipt of a Change Order, Construction change directive, or Supplementary Agreement. In the absence of such, the Contractor shall not perform, nor be entitled to payment for, such Extra Work.

If the Contractor and the Owner cannot agree on a Supplementary Agreement for Extra Work and the Engineer deems it inadvisable to have such Work completed by the Contractor, the Owner may elect to have such Work completed by others, and the Contractor shall not interfere therewith nor have any claim for additional compensation as the result of such election.

00700.11 Notification of Changes.

The Contractor shall promptly report to the Engineer changes that the Contractor believes constitute a change to the Contract. Except for changes identified as such pursuant to Subsections 00700.4 and 00700.5 the Contractor shall promptly notify the Engineer in writing within five (5) days from the date that the Contractor identifies any Changes, which the Contractor regards as a change to the Contract terms and conditions. In no event shall the Contractor begin Work or incur any expenses with relation to the claimed change before giving notice.

The notice shall state the following on the basis of the most accurate information available to the Contractor:

1. The date, nature, and circumstances of the conduct or circumstances regarded as a change.
2. The name, function, and activity of each person involved in or knowledgeable about such conduct or circumstances.
3. The identification of any documents and the substance of any oral communication involved in such conduct or circumstances.
4. In the instance of alleged Extra Work, the basis for the Contractor's claim that the Work is extra.
5. The particular elements of Contract
 - a. What Pay Items have been or may be affected by the alleged change.
 - b. What labor or materials or both performance for which the Contractor may seek additional compensation under this Section including: have been or may be added, deleted, or wasted by the alleged change and equipment idled, added, or required for additional time.
 - c. To the extent practicable, what delay and disruption in the manner and sequence of performance and effect on continued performance have been or may be caused by the alleged change.
 - d. What adjustments to Contract price, delivery schedule, and other provisions affected by the alleged change are estimated.

Following submission of the notice, the Contractor shall diligently continue performance of the Contract to the maximum extent possible according to the Contract Documents, unless such notice results in a direction by the Engineer, in which event the Contractor shall continue performance in compliance therewith, provided, however, that if the Contractor regards such direction itself as a change, notice shall be given as provided above. All directions, orders, and similar actions of the Engineer will be reduced to writing and copies thereof furnished to the Contractor.

The Engineer will promptly and in any event within ten (10) days after receipt of notice, respond thereto in writing. In such response, the Engineer will do one of the following:

1. Confirm that the conduct or circumstance of which the Contractor gave notice constitutes a change, and when necessary direct the mode of further performance.
2. Revise or rescind any communication regarded as a change.
3. Deny that the conduct or circumstance of which the Contractor gave notice constitutes a change, and when necessary direct the mode of further performance; or
4. In the event the Contractor's notice information is inadequate to make a decision under Items 1, 2, or 3 of this paragraph, advise the Contractor as to what additional information is required, and establish the date by which it should be furnished and the date thereafter by which the Owner will respond.

If the Engineer confirms that conduct or circumstances effected a change as alleged by the Contractor, and such conduct or circumstances causes an increase or decrease in the cost of, or the time required for performance of any part of the Work under the Contract, an adjustment in compensation will be made according to the provisions of this Section, and the Contract will be modified in writing accordingly. In the case of drawings, designs, or specifications that are defective and for which the Owner is responsible, the adjustment will be made to include the cost and extension of Contract Time for delay reasonably incurred by the Contractor in attempting to comply with such defective drawings, designs, or specifications before the Contractor identified, or reasonably should have identified, such defect. When the cost of materials made obsolete or excess as a result of a change confirmed by the Engineer pursuant to this Subsection is included in the adjustment in compensation, the Engineer has the right to prescribe the manner of disposition of such materials. Adjustments will not be made that include increased costs or extensions of Contract Time for delay resulting from the Contractor's failure to provide adequate notice or to continue performance as provided above. Any adjustments of Contract Time will be made pursuant to Subsection 01310.11.

The failure of the Contractor to give notice pursuant to the provisions of this Subsection shall constitute a waiver of any and all claims and damages that could have been avoided or mitigated had such timely notice been given. Moreover, no action or inaction of any person shall constitute a waiver of the Owner's absolute right to receive written notice of an alleged claim pursuant to this Subsection.

DIVISION 1 - GENERAL REQUIREMENTS

01100 Summary

01110 *Summary of Work*

Refer to attached plans and specifications created by Netta Architects

01140 *Work Restrictions*

01140.1 PROPERTY OWNER OCCUPANCY

- A. The Property Owner(s) intend to occupy the Project during the construction period for the conduct of normal operations.
- B. Cooperate with Property Owner to minimize conflict, and to facilitate Property Owner's operations.
- C. Protect the building and patrons of the establishment involved/affected by the construction operations from injury resulting from all construction operations, equipment, installations or demolition.
- D. Schedule the Work to accommodate building occupancy and operation.

1140.2 RESERVED

01140.3 Work Time.

The Contractor is limited to working the Standard Working Hours. However, if the Contractor requests so, the Owner may consider seeking approval for the Contractor to work outside of the Standard Working Hours. No work is to be progressed outside of Standard Working Hours unless approved in writing by the Owner.

01140.4 Consideration and Safety of, and Coordination with Global Spectrum Operation.

The Contractor is aware that the Project Area is a Convention Center which may result in the public being attracted to the construction activity. As such, the Contractor shall take care and be cognizant at all times of pedestrians within right-of-ways and persons that may be attracted to the Work activities. At all times, the Contractor must take all necessary and desirable measures to protect equipment and materials used in performance of the Work from accessibility by third parties. The Contractor shall not be entitled to additional compensation or an extension of time in the Contract due to such pedestrian traffic conditions.

If in the opinion of the Owner, in consultation with the Engineer, the Contractor is not abiding by applicable public safety laws and regulations, or determines that the Project Area has not been secured after work hours to prevent the injury to third parties, the Owner will instruct the Engineer to halt the Project in accordance with Subsection 01310.14 (Temporary Suspension of Work) and contract with the local authorities or take whatever measures necessary and desirable to protect public safety. The Owner will be entitled to reimbursement of all reasonable costs and expenses from the Contractor associated with such determination, in accordance with Subsection 01360.14 (Recovery of Monies by the Owner).

01140.5 Damage to Property.

The Contractor shall protect all local roadways, and private property from damage. Any damage caused by the Contractor shall be considered part of the Contractor's risk and included as part of the Contractor's costs for the Project. The Contractor's obligation in this Subsection is in addition to other similar

obligations of the Contract, including those set forth in Sections and Subsections 00630.5 (Examination of Contract Documents and Site of Project), 11020 (Site Restoration and Final Cleanup), 01450.16 (Load Restrictions), 01450.17 (Maintenance During Construction), 01450.18 (Failure to Maintain Project Area, Surroundings and Roadway). A failure by the Contractor to repair any of the above mentioned items in a prompt and timely manner, as determined by the Owner, in its sole discretion, shall be cause for the Owner to contract with a separate contractor to repair the damage and be reimbursed by the Contractor in accordance with Subsection 01360.14 (Recovery of Monies by the Owner). An exception to requiring immediate repair may be approved by the Owner, if the damage is expected to be repetitive due to the nature of the vehicle traffic, is not a danger to the public, and not required by the owner of the right-of-way or other public property, or the private landowner impacted. However, all such approvals must be issued in writing by the Owner and the City. The Contractor shall also be responsible for repairing the damage allowed to remain until Substantial Completion at the Contractor's cost or reimburse the Owner in accordance with Subsection 01360.14 (Recovery of Monies by the Owner).

01140.6 Use of Site.

The use of the Project Area is limited to the construction needed for the completion of the Project. The Project Area shall not be used to store equipment or materials other than that to perform the Work called for under the Contract. In addition, at the end of the work day, unless in a location that would prove difficult logistically to move equipment, all machinery and purchased materials shall be stored outside of the Project Area.

01200 Price and Payment Procedures

01210 Allowances

Allowance shall include cost to Contractor of specific products and materials ordered by Owner under allowance and shall include taxes, freight, and delivery to Project site.

Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner under allowance shall be included as part of the Contract Sum and not part of the allowance. All other costs will be reimbursed at actual with supporting documentation.

01270 Measurement of Quantities

Measurements will be made according to the United States customary English units.

The method of measurement and computations to be used in determination of quantities of Work performed under the Contract are those methods generally recognized as conforming to good Engineering practice. The method of measurement chosen must be consistent and unchanging through the life of the Project.

The term "lump sum" when used as a basis of payment means complete payment for the Work of that item, and that item will not be measured.

When the unit price Pay Items set forth in Exhibit "G" and subsequent owner approved schedule of values are specified to be the pay quantity, either the Engineer or the Contractor may request that the quantity be measured. If the Contractor makes such a request, it shall be accompanied by drawings, calculations, or other information indicating that the quantity in Exhibit "G" and subsequent owner approved schedule of values is not correct.

01290 *Payment Procedures*

01290.1 Scope of Payment.

The Contractor shall receive and accept the compensation provided for in the Contract as full payment for furnishing all labor, materials, tools, equipment, and incidentals necessary to complete the Work, and for performing all Work contemplated and embraced under the Contract in a complete and acceptable manner. Except where specifically provided elsewhere in the Contract Documents, compensation shall encompass full payment for all risk, loss, damage, or expense of whatever character arising out of the nature of the Work or the prosecution thereof, or for the action of the elements, or for any unforeseen difficulties that may be encountered during the prosecution of the Work until Acceptance.

The payment for the various Pay Items set forth in Exhibit "G" and subsequent owner approved schedule of values encompasses all compensation for work essential to each Pay Item. Work essential to each Pay Item will not be measured or paid for under any other Pay Item in the Contract Documents.

01290.2 Payment for Contractor's Expenses During Delays.

The Contractor is expected to be familiar with the type of work being progressed under this Contract. Therefore, no delays due to, for example, weather, flooding, coordination with subcontractors, and adjacent work by others will be compensated by the Owner. The Contractor shall take any and all necessary and desirable steps to be familiar with all aspects of the Project, including, without limitation, the Project Area, the contemplated Work, and the Project Plans and Specifications.

01290.3 Partial Payments.

The Owner will make monthly estimated payments to the Contractor based on the approximate quantities of Work satisfactorily performed according to the Contract Documents during the preceding month. Partial payments on account of such monthly estimate will be made based on the prices set forth in Exhibit "G" and subsequent owner approved schedule of values or as provided by Construction change directive, Change Order, or Supplementary Agreement. The Owner will also pay the Contractor for materials delivered according to Subsection 01290.4.

Before the issuance of each monthly payment before Substantial Completion, the Contractor shall present an invoice along with a fully completed Application for Payment in the form set forth in Attachment "A." The Application for Payment shall include a Partial Release and Waiver of Liens executed by the Contractor and by any subcontractor or supplier who has provided work, services, material or equipment to the Project and is requesting payment for any of the Work encompassed by the Application for Payment, waiving the Contractor's, subcontractor's and/or supplier's right to assert a construction lien in regard to the Project pursuant to N.J.S.A. 2A:44A-1 to the extent of payments actually received for work, services, materials or equipment provided or to be provided.

Pay Items that are on a lump sum basis will not be measured. However, payment for such items will be included in partial payments consistent with the provisions of the Subsection describing the Work under the lump sum Pay Item. Where the method of payment is not described under the Subsection describing the Work of the lump sum Pay Item, partial payment will be made based on an approximation of the proportionate value of the Work satisfactorily performed to date.

When an Application for Payment includes an application for payment of any unit price pay item, the Application shall include a certification by the Contractor of the quantity of units applied for, along with all necessary documentation, as determined by the Engineer, of the measurement of the quantity of unit price items.

From the total amounts ascertained as payable, Owner will retain the Retainage in accordance with the Contract.

Such estimate or payment will not be made when, in the judgment of the Engineer, the Work is not proceeding according to the Contract Documents or following the Owner giving the Contractor and surety notice of delay, neglect, or default under Subsection 01310.16 (Default and Termination of Contractor's Right to Proceed).

Such estimate or payment shall not be construed to be an approval of any defective or improper Work. The Engineer upon determining that any payment under a previous monthly estimate was improper or unwarranted for any reason may deduct the amount of such payment from the subsequent monthly estimate and partial payments made to the Contractor.

The Owner will deduct from any monthly estimate and payment and/or the final payment such amounts as are required to be deducted pursuant to provisions of the Contract Documents.

01290.4 Materials Payments.

Before including payments for Items that include materials, the Engineer must be satisfied that:

1. The materials have been properly stored, insured and protected along or upon the Project Area or have been stored at locations owned or leased by the Contractor or the Owner; and
2. The materials have been inspected and appear to be acceptable based upon available supplier's certification and/or materials test reports; and
3. The Contractor has provided the Engineer with proof of good credit standing with the material supply company; and
4. The materials, if stored on property not belonging to the Owner, are fenced in with access limited to the Owner, Engineer and the Contractor, and the fenced-in materials are clearly identified in large letters as being without encumbrances and for use solely on the Project.

The Contractor assumes full responsibility for the safe storage and protection of the materials and nothing in this Subsection alters the provisions of Subsections 01360.12 (Risks Assumed by the Contractor) and 00620 (Insurance). If materials paid for under this Subsection are damaged, stolen, or prove to be unacceptable, the payment made therefor shall be deducted from subsequent estimates and payments.

Payment for materials as provided in this Subsection shall not be deemed to be an approval of such materials, and the Contractor shall be responsible for and must deliver to the Project Area and properly incorporate in the Work only those materials that comply with the Contract Documents.

The Contractor shall pay any and all costs of handling and delivering materials to and from the place of storage to the Project Area, as well as any storage rental. Any taxes levied by any government against the materials shall be borne by the Contractor.

01290.5 Payments Following Substantial Completion.

Following Substantial Completion of the Contract according to Subsections 00700.3 (Intent) and 01450.20 (Substantial Completion) payments to the Contractor will be made only upon certification by the Contractor to the Engineer and Owner that:

1. Each subcontractor or supplier has been paid all amounts due from all previous progress payments and shall be paid all amounts due from the current progress payment; or
2. There exists a valid basis under the terms of the subcontractor's or supplier's contract to withhold payment from the subcontractor or supplier, and therefore payment is withheld.

The Owner shall not be responsible for any interest payment to material suppliers, no matter what circumstance arises; either through delays in payment by the Owner or delays in payment by the Contractor.

All monies retained subsequent to Substantial Completion shall be released at final payment. Ninety-five percent of the Retainage shall be paid at final payment, with the balance retained in an interest bearing account by the Owner until such time as the Contractor satisfies its obligations under this Contract after which time, such balance will be paid to the Contractor.

01290.6 Payment Following Acceptance.

After Acceptance as provided in Subsection 01450.21 (Completion and Acceptance), the Engineer will make an estimate of the total amount of Work done under the Contract and the Owner will make a final monthly payment. The Owner will pay the balance found to be due after deduction of all previous payments and such further amounts as the Engineer determines to be necessary and proper under the Contract (including those required under Subsection 01290.5) pending issuance of the Final Certificate and payment. Retainage is released with this estimate except where the Engineer determines to continue to retain them under the provisions of Subsections 01290.5 and 01290.7.

01290.7 As-Built Quantities.

Following Substantial Completion, the Engineer will finalize as-built quantities for all unit price Pay Items and for Extra Work that has been authorized and incorporated into the Project. The Contractor shall assume the positive obligation of assisting the Engineer in the preparation of such as-built quantities at no extra cost. If the Contractor disagrees with the final as-built quantities, the Contractor must submit, together with a notice of disagreement, the proposed changes and supporting calculations within five (5) days. Where the Contractor fails to respond or fails to provide supporting calculations, together with a notice of disagreement, within the aforesaid 5-day period, such failure will be construed to be acceptance of the as-built quantities. However, the Engineer will review supporting calculations properly received from the Contractor according to this Subsection, within five (5) days, and will accept or reject, in part or in whole, the proposed changes to the as-built quantities. The Engineer has the discretion to extend the Contractor's 5-day response period, but only upon receipt of a written request from the Contractor, submitted within the aforesaid 5-day period. After the Contractor's acceptance, expiration of the aforesaid 5-day period and any properly granted extensions, or after review of any properly submitted proposed changes; final as-built quantities will be incorporated into a proposed Final Certificate. A claim based upon proposed changes to the as-built quantities that have not been accepted by the Engineer, but which were supported by calculations and submitted within the aforesaid 5-day period, may be reserved by the Contractor according to Subsection 01290.8. In addition, the provision of Section 01270 (Measurement of Quantities) shall also govern.

The Engineer may from time to time, before Completion, prepare as-built quantities and incorporate these quantities into monthly estimate certificates through an appropriate Field Order or Change Order. Such interim as-built quantities are subject to recalculation following Completion. However, nothing contained in the Contract Documents shall be construed to place on the Engineer the obligation of providing the Contractor with as-built quantities for the Work performed before the issuance of the proposed Final Certificate, nor to provide more than rough, approximate quantities of the Work done for use in the preparation of monthly estimates.

Should it appear to the Engineer at the time of Acceptance that the calculation of as-built quantities might result in the Contractor being obliged to return money to the Owner, the Engineer may refuse to release Retainage pending issuance of the proposed Final Certificate. Where the estimate reveals that an overpayment has been made, the Contractor shall immediately return the amount of the overpayment. If the Contractor fails to remit the overpayment, the Owner will avail itself of other funds held against the Retainage, and then if necessary proceed against the Contractor or its surety. Where the proposed Final Certificate reveals that no overpayment has been made, the Contractor shall be entitled to payment

thereunder and the release of Retainage in accordance with the Contract, but the Contractor shall have no claim of any kind for additional compensation as a result of the Engineer's decision to withhold Retainage or other monies pending issuance of the proposed Final Certificate.

01290.8 Final Payment.

The Final Certificate shows the total amount payable to the Contractor, including therein an itemization of said amount segregated as to Pay Item quantities, Extra Work, and any other basis for payment, and also shows therein all deductions made or to be made for prior payments and as required pursuant to the provisions of the Contract Documents. All prior estimates and payments are subject to correction in the Final Certificate.

Within 30 days after said Final Certificate has been issued to the Contractor, the Contractor shall either submit to the Engineer a written acceptance of the Final Certificate without exception or a written acceptance of the Final Certificate with exception or reservation. The Contractor's failure to submit any written acceptance within said 30 days will be construed as an acceptance of the Final Certificate without exception or reservation. Final payment will be made to the Contractor in the amount set forth in the Final Certificate, and the Contract will be complete as of the date on which such payment is issued. Failure of the Contractor to accept the tendered Final Payment shall not affect completion of the Contract.

If the Contractor submits to the Engineer its written acceptance of the Final Certificate without exception or reservation, the acceptance shall contain a release signed by the Contractor in a form satisfactory to the Owner.

Upon receipt of such written approval and release, the Owner will pay the entire sum due and owing hereunder, and the Contract will be complete as of the date on which that payment is issued, subject to the provisions of 01290.5 (Payments Following Substantial Completion).

Any claims the Contractor may have that cannot be resolved with the Engineer or Owner at Final Payment will be submitted to non-binding mediation in accordance with Subsection 01360.2 (Process for the Resolution of Contract Disputes). No action of any kind arising under this Contract shall be brought before the matter at issue is submitted to non-binding mediation in accordance with Subsection 01360.2.

01290.9 Audits.

All claims filed under non-binding mediation are subject to audit at any time following the filing of such claim. The audit may be performed by the Owner or by an auditor under contract with the Owner. The audit may begin on ten (10) days notice to the Contractor or its subcontractor. The Contractor, subcontractor, or supplier shall provide adequate facilities that are acceptable for such audit during normal business hours. The Contractor, subcontractor, or supplier shall make a good faith effort to cooperate with the auditors. Failure of the Contractor, subcontractor, or supplier to maintain and retain sufficient records to allow the Owner's auditor to verify all or a portion of such claim to the books and records of the Contractor, subcontractor, or supplier shall constitute a waiver of such claim and shall bar any recovery thereunder.

At a minimum, the auditors shall have available to them the following documents:

1. Daily time sheets and foreman's daily reports.
2. Insurance, welfare, and benefits records.
3. Payroll registers.
4. Earnings records.
5. Payroll tax forms.
6. Material invoices and/or requisitions.
7. Material cost distribution worksheet.

8. Equipment records (list of company equipment and rates).
9. Vendors', rental agencies', and subcontractors' contracts and invoices.
10. Subcontractors' payment certificates.
11. Canceled checks (payroll and vendors).
12. Job cost report.
13. Job payroll ledger.
14. General ledger.
15. Cash disbursements journal.
16. Financial statements for all years reflecting the operations on the Project.
17. Income tax returns for all years reflecting the operations on the Project.
18. Depreciation records on all company equipment whether such records are maintained by the company involved, or its accountant, or others.
19. If a source other than depreciation records is used to develop costs for the Contractor's internal purposes in establishing the actual cost of owning and operating equipment, all such other source documents.
20. All documents which reflect the Contractor's actual profit and overhead during the years the Project was being performed and for each of the five years before the commencement of the Project.
21. All documents related to the preparation of the Contractor's Bid including the final calculations on which the bid was based.
22. All documents that relate to each and every claim together with all documents which support the amount of damages as to each claim.
23. Worksheets used to prepare the claim establishing the cost components for items of the claim including, but not limited to, labor, benefits and insurance, materials, equipment, subcontractors, and all documents which establish the time periods, individuals involved, and the hours and rates for these individuals.

01290.10 Warranty Against Defective Work.

In addition to any other rights or remedies the Owner may have against the Contractor, its officers, employees, agents, subcontractors, fabricators, and suppliers under other provisions of the Contract Documents or as are otherwise allowed in law or equity, the following rights, remedies, and obligations are imposed by this Subsection:

1. On all Projects, all subcontractors', manufacturers', fabricators', and suppliers' warranties, express or implied, respecting any work or materials shall, at the direction of the Engineer, be enforced by the Contractor for the benefit of the Owner. The Contractor shall obtain any warranties that subcontractors, manufacturers, fabricators, and suppliers would give in normal commercial practice. If directed, the Contractor shall require any such warranty to be executed in writing to the Engineer. The Engineer may direct the Contractor to undertake litigation to enforce any warranty. Litigation directed to be brought during the life of the Contract and until three year following Acceptance (whether actually instituted within this period or not) shall be at the Contractor's expense.
2. The Contractor warrants that work performed conforms to the Contract requirements and is free of any defect of equipment, material or design furnished, or workmanship performed by the Contractor or any of its subcontractors, fabricators, or suppliers at any tier. Such warranty shall continue for a period of one year following Acceptance. Under this warranty, the Contractor shall remedy at its own expense any such failure to conform or any such defect. In addition, the Contractor shall remedy at its own expense any damage to Owner or Property Owner owned or controlled real or personal property, when that damage is the result of the Contractor's failure to conform to Contract requirements or any such defect of equipment, material, workmanship, or

design. The Contractor shall also restore any work damaged in fulfilling the terms of this clause. The Contractor's warranty with respect to work repaired or replaced hereunder shall run for the greater of: (i) the balance of the original three year term or (ii) one year from the date of such repair or replacement.

The Engineer will notify the Contractor in writing of the discovery of any failure, defect, or damage. Should the Contractor fail to remedy any failure, defect, or damage described in the paragraph above, within 45 days after receipt of notice thereof, the Engineer, on the Owner's behalf, will have the right to replace, repair, or otherwise remedy such failure, defect, or damage at the Contractor's expense.

3. Notwithstanding any other provision of this Subsection, the Contractor shall not be liable, hereunder, to the extent of any defects of material or design furnished by the Owner nor for the repair of any damage that results from any such defect in Owner furnished material or design.

01300 Administrative Requirements

01310 *Project Management and Coordination*

01310.1 Assignment.

The performance of the Contract may not be assigned, except upon the written consent of the Owner. Consent will not be granted to any proposed assignment that would relieve the original Contractor or its surety of their responsibilities under the Contract nor will the Owner consent to any assignment of a part of the Work under the Contract.

01310.2 Subcontracting.

The Contractor shall make application to the Owner, through the Engineer, of the names of persons or entities, not listed on the subcontractor utilization form, that the Contractor proposes to engage as subcontractors under this contract. The Owner will reply to the Contractor in writing promptly with any objections to the proposed person or entity. The contractor shall not contract with anyone that the Owner has made timely and reasonable objection. It is understood, however, that any consent of the Owner for the subcontracting of any Work of the Contract in no way relieves the Contractor from its full obligations for all Work under the Contract, nor the surety of its obligations under the bond. The Contractor shall at all times give its personal attention to the fulfillment of the Contract and shall keep the Work under control. The Contractor shall be responsible for all work of subcontractors which work shall conform to the provisions of the Contract Documents. The consent to the subcontracting of any part of the Work shall not be construed as an approval of the said subcontract or of any of its terms, but is to operate only as an approval of the Contractor's request for the making of a subcontract between the Contractor and its chosen subcontractor.

Application for subcontracting any part of the Work shall be made by the Contractor in writing to the Owner. The Contractor shall attach to that application a certified copy of the proposed subcontract between the Contractor and the subcontractor. After review of the application, the consent of or rejection by the Owner of the subcontracting will be provided to the Contractor in writing. Before the receipt of the written consent from the Owner, Work shall not be performed on the Project under the subcontract.

The subcontractor shall look only to the Contractor for the payment of any claims of any nature whatsoever arising out of the subcontract. Nothing contained in this Contract shall create any contractual relationship between any subcontractor and the Owner. The Contractor shall insert appropriate clauses in all subcontracts to bind subcontractors to the terms and conditions of this contract insofar as they are applicable to the work of subcontractors.

The Owner will not consent to the making of any subcontract unless the proposed subcontractor furnishes a statement to the effect that the subcontractor is acquainted with and expressly understands all of the provisions of the Contract.

01310.3 Commencement of Work.

Upon execution of the Contract by the Owner, a fully executed copy together with a Notice to Proceed will be provided to the Contractor. Receipt of the executed Contract and Notice to Proceed shall constitute the Contractor's authority to enter upon the Project Area, provided the Contractor has submitted to the Owner, and the Owner has accepted and approved, the insurance certificates required under Subsection 00620 and a preconstruction conference has been held. Construction operations shall not begin until the Contractor has supplied, and the Engineer has accepted, the Progress Schedule and other certifications, forms, schedules, and any other Submittals required by the Contract Documents.

The Contractor is not entitled to additional compensation or extension of Contract Time for any delay, hindrance, or interference caused by or attributable to commencement of Work within 30 days following the Notice to Proceed.

The Contractor shall give the Engineer at least 72 hours advance notice in writing of its intention to start construction operations.

01310.4 Progress Schedule and Prosecution of the Work.

Upon bid award, the Contractor should furnish a proposed Progress Schedule showing the order in which the Contractor proposes to prosecute the Work; the dates on which the various work stages, operations, and principal items of Work including procurement of materials will begin; the quantity and kinds of equipment and character of the labor force; and the contemplated dates for completing the same.

Construction operations shall not begin until the Progress Schedule has been approved. Five Working Days will be required for review and approval of progress. Once the Progress Schedule has been approved, the Contractor shall not deviate from it without first notifying the Engineer in writing.

In scheduling and executing the Work, the following shall be considered:

- 1. Mobilization and Staging.** The Contractor shall schedule the Work using such procedures and staging as may be specified in the Contract Documents. The Contractor is responsible for obtaining a construction trailer, if needed, and a site location for the trailer. The contractor shall also obtain facilities for storage of materials and equipment.
- 2. Prosecution of the Work.** The Contractor shall provide sufficient materials, equipment, and labor to guarantee the completion of the Project according to the Contract Documents and within the time set forth under Subsection 01310.10 (Time of Completion).

If the Contractor falls ten percent or more of the total project time behind the submitted schedule, the Contractor shall submit a revised schedule for approval.

Should the Contractor discontinue the prosecution of the Work for any reason, it shall notify the Engineer, in writing, before discontinuing work and at least 24 hours before resuming operations.

The Contractor shall arrange and prosecute the Work so that each successive construction operation at each location shall follow the preceding operation as closely as the requirements of the various types of construction permit to facilitate the efficient and effective completion of the Project in accordance with the Progress Schedule.

Compensation for additional expense to the Contractor and allowance of additional time for completion of the Work shall be as set forth in a Change Order or Supplementary Agreement or according to Subsection 01310.11 (Extensions and Reductions of Contract Time).

3. **Intent, Responsibility and Time.** Scheduling of construction is the responsibility of the Contractor. Therefore, it is the Contractor's responsibility to determine the most feasible order of Work commensurate with the Contractor's abilities and the Contract Documents. The requirement for the Progress Schedule is included to ensure adequate planning and execution of the Work, to assist the Engineer in appraising the Contractor's compliance with the Contract Documents, and to evaluate progress of the Work. The Progress Schedule will be used for determining extensions or reductions of Contract Time pursuant to Subsection 01310.11.

It is not intended that the Engineer, by approving the Progress Schedule, agrees that it is reasonable in all respects or that following the Progress Schedule can result in timely completion of the Project. Only the approved Progress Schedule is a part of the Contract.

If, in the preparation of the Progress Schedule, the Contractor projects a completion date that is different than that specified under Subsection 01310.10, this in no way voids the date set therein. The date as specified in that Subsection governs. Where the Progress Schedule reflects a completion date that is earlier than that specified as the Contract Time, the Engineer may approve the schedule with the Contractor specifically understanding that no claim for additional Contract Time or compensation shall be brought against the Owner as the result of failure to complete the Work by the earlier date shown on the Progress Schedule.

4. **Acceleration and Default.** If, in the opinion of the Engineer, the Contractor falls behind its Progress Schedule, and cannot complete the Work within the time prescribed under Subsection 01310.10, as modified pursuant to Subsection 01310.11, the Contractor shall take such steps as may be necessary to improve its progress. The Engineer may require the Contractor to increase the number of shifts, begin overtime operations, work extra days including weekends and holidays, or supplement its equipment and materials, and to submit for approval such supplementary schedule or schedules, as may be deemed necessary to demonstrate the manner in which the agreed rate of progress shall be regained, all at no cost to the Owner.

Failure of the Contractor to comply with the requirements of the Engineer under this Subpart is grounds for the determination that the Contractor is not prosecuting the Work with such diligence as to ensure Completion within the time specified. Upon such determination, the Engineer may terminate the Contractor's right to proceed with the Work or any separable part thereof according to Subsection 01310.14 (Temporary Suspension of Work).

5. **Types of Progress Schedules.** All Progress Schedules shall comply with the foregoing provisions of this Subsection. Regardless of the type of progress schedule used, the Contractor shall supply the Engineer with a weekly work schedule indicating the Contractor's planned work, the subcontractors' planned work, and the dates when materials are to be delivered.
6. **Cost Savings Opportunities.** During the prosecution of the Work, Contractor shall identify and present to the Engineer and Owner cost saving opportunities, if any, to reduce the Total Contract Price. To incent Contractor to diligently work to identify such opportunities, if Owner agrees to implement such opportunities, the savings actually realized by the Owner shall be shared equally by and between the Owner and Contractor, and the Total Contract Price shall be reduced accordingly. If during the prosecution of the Work, Owner identifies cost savings opportunities, the savings actually realized from the execution thereof shall be shared by the Owner and Contractor, as the parties mutually agree, with such sharing agreement to account solely for the direct costs that Contractor has incurred and paid that the Contractor cannot receive credit, obtain reimbursement or otherwise avoid. Contractor's claim for cost sharing under this subpart shall

be accompanied by sufficient documentation so that the Engineer can validate the request. Prior to Owner's execution of the Contract, Owner may identify cost saving opportunities that reduce or eliminate costs, and the Owner shall not be responsible to the Contractor for any costs and shall receive one-hundred percent of the benefit of all such pre-execution opportunities that Owner identifies, and the Total Contract Price shall be reduced accordingly.

01310.5 Project Meetings.

1. Pre-Construction Meeting at Owner's Office

Prior to the issuance of the Notice to Proceed, a pre-construction meeting will be coordinated by the Engineer. In attendance shall be an authorized representative of the Owner, the Engineer, and the Contractor's Project Manager. The agenda of the meeting will include without limitation, the following topics:

- Introductions;
- The Engineer's role on the Project and respective duties to the Owner and Contractor;
- Mobilization, Staging Areas, and Equipment Storage;
- Responsibility for the safety of the public;
- Working Hours;
- Coordination between contractors (if applicable);
- Discussion of structure buffers within the Project Area (if applicable);
- Notification procedures in emergencies. Preparation of list of contacts and telephone numbers for notification during emergencies;
- Municipal approvals, if any;
- Project Access Locations, and visits to each such location;
- Project schedule and procedures for written correspondence to alert of delays due to weather or other impacts outside of the Contractors controls;
- Identification of the Project Team and meeting frequency.

2. Weekly to Bi-Weekly Project Meetings

During the execution of the Work, project meetings shall be held every other week with the Project Team to discuss the Project's progress. Specifically, these meetings will address the progress of the Work, with an emphasis on ensuring that the Work is consistent with the Project Plans, discussions of the Progress Schedule and any adjustments that may need to be made to the preliminary schedule prepared as part of these Specifications, Change Orders, unforeseen conditions, discussions regarding payment schedule and any other issues of concern. As the Work progresses and at the discretion of the Owner, these meetings may be extended to bi-weekly meetings. This meeting will be held at the Owner's Office or at such location as the Owner may agree.

3. Minutes of Meetings

The Contractor is required to attend all meetings outlined in the Contract, or as reasonably requested by the Engineer. The Engineer shall record and maintain the Minutes of all meetings outlined in the Contract, and provide copies thereof to the parties in attendance prior to the next scheduled meeting.

01310.6 Limitation of Operations.

The Contractor shall conduct the Work at all times in such a manner and in such sequence that shall ensure the least interference with the surrounding community, pedestrian traffic, and other contractors, if any. The Contractor shall conduct Work during Standard Working Hours. If the Contractor is expecting to work hours greater than this specified time period, written permission from the Owner must be obtained prior to commencement of such work

01310.7 Character of Workers, Methods, and Equipment.

The Contractor shall at all time employ sufficient labor and equipment for prosecuting the Work to full completion in the manner and time required by the Contract Documents.

All workers shall have sufficient skill and experience to properly perform the work assigned to them. Workers engaged in special work or skilled work shall have sufficient experience in that work and in the operation of the equipment required to perform the Work satisfactorily, in accordance with the best practices in the industry.

Any person employed by the Contractor or by any subcontractor who, in the opinion of the Engineer, does not perform Work in a proper and skillful manner or is intemperate or disorderly shall, at the written request of the Engineer, be promptly removed by the Contractor or subcontractor employing the person and shall not be again employed in any portion of the Work without approval. Should the Contractor fail to remove such person or persons as required, or fail to furnish suitable and sufficient personnel for the proper prosecution of the Work, the Engineer may suspend the Work by written notice until compliance with such orders, and if so suspended and in the absence of such compliance, the Owner shall have all its rights and remedies as outlined in the Contract.

All equipment that is proposed to be used on the Work shall be of sufficient size and in such mechanical condition as to meet the requirements of the Work and to produce a satisfactory quality of Work, in accordance with best practices in the industry. Equipment used on any portion of the Project shall not cause damage to, adjacent property or the ROW for which the Contractor shall be solely responsible.

When the methods and equipment to be used by the Contractor in accomplishing the construction are not specified, the Contractor is free to use any methods or equipment that accomplishes the Work. When the use of certain methods and equipment is specified, the specified methods and equipment shall be used unless otherwise authorized according to Subsection 01451.12 (Substitutes or "Or Equal" Items).

01310.8 Working Site.

Except as otherwise provided, any space that the Contractor may require for plant, equipment, storage, or other purposes in addition to that available at the Project Area, shall be procured by the Contractor, and the cost thereof shall be borne by the Contractor with no increase to the Total Contract Price. In the event of default as set forth in Subsection 01310.16, the Owner has the right to take over and occupy such space, or cause it to be occupied, for the purpose of completing the Project, at the Contractor's expense.

01310.9 Unusual Site Conditions.

During the progress of the Work, if latent physical conditions are encountered at the Project Area differing materially from those indicated in the Contract or if unknown physical conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the work provided for in the Contract are encountered at the site, the party discovering such conditions shall promptly notify the Engineer in writing of the specific differing conditions before they are disturbed and before the affected work is performed.

Upon written notification, the Engineer will investigate the conditions, and if the Engineer determines that the conditions materially differ and could not have been discovered by the Contractor pursuant to Subsection 00630.5 (Examination of Contract Documents and Site of Project) and if they cause an increase

or decrease in the cost or time required for the performance of any work under the Contract, an adjustment, excluding loss of anticipated profits, will be made and the Contract modified in writing accordingly. The Engineer will notify the Contractor of the Engineer's determination whether or not an adjustment of the Contract is warranted. Adjustments in Contract Time will be made pursuant to Subsection 01310.11. Adjustments in compensation will be made pursuant to Subsections 00700.4, 00700.5, 00700.7, 00700.8, and 00700.10.

No Contract adjustment that results in a benefit to the Contractor will be allowed unless the Contractor has provided the required written notice herein. No Contract adjustment will be allowed under this clause for any effects caused on unchanged work.

01310.10 Time of Completion.

The Contractor shall complete all or any portion of the Project called for under the Contract in all parts and requirements within the time or times for completion outlined in the Specification. Time is of the essence as to all time frames stated in the Contract Documents; therefore, all time frames shall be strictly enforced.

Contract Time is Calendar Days counting from the date of the Notice to Proceed, including all Saturdays, Sundays, holidays, and non-work days.

01310.11 Extensions and Reductions of Contract Time.

- A. Basis for Extension.** Where appropriate under the provisions of this Subsection, extensions or reductions to the Contract Time may be provided by Change Order, however, such extensions or reductions will be allowed only to the extent that, the increase or decrease in the Work, or delays of the types indicated below affect current controlling operations and the overall Completion. Increases or decreases in Work or such delays that do not affect the overall Completion are not to be the basis for reduction or extension of Contract Time. Extensions of Contract Time will not be granted under this Subsection where it is determined that the Contractor could have avoided the circumstances that caused the request for extension.

If the Contractor is delayed in completion of the Work by reason of changes made under Subsection 00700.4 (Changes), or by failure of the Owner to acquire easements, permits or other approvals, or by any act of other contractors consistent with Subsection 01450.10 (Cooperation Between Contractors), or the discovery of hazardous substances, or by any act of the Engineer or of the Owner not contemplated by the Contract, an extension of Contract Time commensurate with the delay in overall completion of the Contract thus caused will be granted, and the Contractor is relieved from any claim for liquidated damages or the Engineer and inspection charges.

Additionally, the Contractor may be granted an extension of Contract Time and not be assessed liquidated damages or the costs of the Engineer and inspection for any portion of the delay in overall completion of the Work beyond the time provided in Subsection 01310.10 caused by the following reasons:

1. acts of civil or military authorities, war, or riot;
2. fire;
3. floods, tidal waves, earthquakes, cyclones, tornadoes, hurricanes, or other cataclysmic natural phenomenon;
4. extreme weather conditions;
5. epidemics or quarantine restrictions;
6. strikes or labor disputes beyond the control of the Contractor which prevent work on the construction operations which are critical to the completion of the Project;

7. shortages of materials [Subpart 01310.11(B)(1)] or freight embargoes;
8. acts of the State in its sovereign capacity;
9. failure of the Engineer to furnish interpretations of the Contract Documents [Subpart 01310.11(B)(2)].

B. Criteria for Evaluation. Extension of Contract Time for the reasons set forth in this Subsection will not be granted unless the Contractor has notified the Engineer in writing of the causes of delay within 5 days from the beginning of any such delay. The Engineer will evaluate the facts and the extent of the delay, and upon approval, will extend the Contract Time one day for each approved day of delay.

1. Extensions of Contract Time will not be granted for a delay caused by a shortage of materials unless the Contractor furnishes:
 - a. documentary proof that it has diligently made every effort to obtain such materials from all known sources within reasonable distance from the Work, and
 - b. further proof in the form of a supplementary Progress Schedule, as required in Subsection 01310.4, showing that the inability to obtain such materials when originally planned, did, in fact, cause a delay in completion of the Contract which could not be compensated for by revising the sequence of the Contractor's operations. The term "shortage of materials" applies only to raw and fabricated materials, articles, parts, and equipment that are standard items and does not apply to materials, parts, articles, or equipment, which are processed, made, constructed, fabricated, or manufactured to meet the specific requirements of the Contract. Only the physical shortage of materials and not the cost of materials will be considered.
2. Extensions of Contract Time will not be granted for failure of the Engineer to furnish interpretations of the Contract Documents until 10 days after receipt of such demand in writing as required by Subsection 00700.9 (Changes in Character of Work), and not then unless such request for an interpretation of the Contract Documents is reasonable and made in good faith, and the failure to respond was unwarranted.

Except where specifically provided in the Contract Documents, the Contractor shall not make any claim for damages or additional compensation for any delay in or hindrance to the performance of the Contract occasioned by any act or omission to act by the Owner or any of its representatives, or for any of the reasons enumerated in this Subsection, and agrees that any such claim shall be fully compensated for by an extension of Contract Time to complete performance of the Work.

Extensions of Contract Time will not be granted due to delays caused by, or in any way related to, the financial condition of the Contractor, subcontractors, sub-subcontractors, materialmen, fabricators, or suppliers. The Contractor and its surety assume full responsibility for ensuring that the financial condition of any of the above does not delay completion of the Contract.

If, as a result of modifications made under Subsection 00700.4, 00700.7, 00700.8, or 01310.9, the Work required is reduced or altered so that the time required for Completion is reduced, the Engineer may reduce the Contract Time provided under Subsection 01310.10. The Engineer will evaluate the facts and the extent of the reduction. The Engineer's findings thereon will be final and conclusive.

The Contractor and surety are not relieved of liability for liquidated damages or the Engineer and inspection charges for any period of delay in Completion in excess of that expressly provided for in this Subsection.

01310.12 RESERVED

01310.13 Suspension of Work for Convenience of the Owner.

The Engineer may order the Contractor, in writing, to suspend, delay, or interrupt all or any part of the Work for such period of time as the Engineer may determine to be appropriate for the convenience of the Owner.

If the performance of all or any portion of the Work is suspended, delayed, or interrupted by the Engineer in writing for an unreasonable period of time (not originally anticipated, customary, or inherent to the construction industry) and the Contractor believes that additional compensation or Contract Time or both are due as a result of such suspension, delay, or interruption, the Contractor shall submit to the Engineer in writing a request for adjustment within five (5) Calendar Days of receipt of the notice to resume Work. The request shall set forth the reasons and support for such adjustment.

Upon receipt, the Engineer will evaluate the Contractor's request. If the Engineer agrees that the cost or time or both required for the performance of the Contract have increased as a result of such suspension and the suspension was caused by conditions beyond the control of and not the fault of the Contractor, its suppliers, or subcontractors, and not caused by weather, the Engineer will make an adjustment (excluding profit) and prepare the written modification of the Contract accordingly. The Engineer will determine and notify the Contractor whether or not an adjustment of the Contract is warranted. Adjustments in Contract Time will be made pursuant to 01310.11.

Adjustments in compensation will be made pursuant to 00700.4, 00700.5, 00700.7, 00700.8, and 00700.10.

No Contract adjustment will be considered unless the Contractor has submitted the request for adjustment within the time prescribed.

No Contract adjustment will be allowed under this clause to the extent that performance would have been suspended, delayed, or interrupted by any other cause, or for which an adjustment is provided for or excluded under any other term or condition of the Contract.

The failure of the Engineer to consider the Work suspended and to allow for an adjustment in the compensation or in the Contract Time will not bar recovery under the foregoing provisions, provided the Contractor gives written notice to the Engineer within ten (10) days of the start of the alleged suspension. The failure of the Contractor to give such notice pursuant to the provisions of this Subsection shall constitute a waiver of any and all claims and damages which would have been avoided or mitigated had such timely notice been given.

01310.14 Temporary Suspension of Work.

The Engineer has the authority to suspend the Work, wholly or in part, for such period as deemed necessary due to unsuitable weather, or for such time as deemed necessary due to the failure on the part of the Contractor to carry out orders given or to perform any provision of the Contract. The Contractor shall promptly comply with the written order of the Engineer to suspend the Work wholly or in part. The suspended work shall be resumed when conditions are favorable and methods are corrected, as ordered or approved in writing.

In the event that a suspension of Work is ordered as provided above, and should such suspension be ordered by reason of the failure of the Contractor to carry out orders or to perform any provision of the Contract; or by reason of weather conditions being unsuitable for performing any item or items of Work, which work, in the sole opinion of the Engineer, could have been performed before the occurrence of such unsuitable weather conditions had the Contractor diligently prosecuted the Work when weather conditions were suitable; the Contractor, at its expense, shall do all the work necessary to provide a safe, smooth, and unobstructed passageway through the construction area for use by public traffic during the period of such suspension. In the event that the Contractor fails to perform the work above specified, the Owner will

perform such work and the cost thereof will be deducted from any monies due or that may become due the Contractor. In the event that a suspension of Work is ordered by the Engineer due to unsuitable weather conditions and, in the sole opinion of the Engineer, the Contractor has prosecuted the Work with energy and diligence before the time that operations were suspended, the cost of providing a smooth and unobstructed passageway through the Work will be paid for as Extra Work, or, at the option of the Engineer, such work will be performed by the Owner or different Contractor working for the Owner at no cost to the Contractor.

If the Engineer orders a suspension of all of the Work or a portion of the Work, which is the current controlling operation or operations, due to unsuitable weather, the days on which the suspension is in effect are not considered Working Days on Working Day contracts. If a portion of Work at the time of such suspension is not a current controlling operation or operations, but subsequently does become the current controlling operation or operations, the determination of Working Days will be made on the basis of the then current controlling operation or operations. Similarly, on Calendar Day and specified completion date contracts, extensions of Contract Time will be granted only if the suspension affects the overall completion of the Contract and the other requirements of Subsection 01310.11 are satisfied.

If a suspension of Work is ordered by the Engineer due to the failure on the part of the Contractor to carry out orders given or to perform any provision of the Contract, the days on which the suspension order is in effect are to be considered Working Days if such days are Working Days within the meaning of the definition set forth in Subsection 00700.2 (Terms). On Calendar Day and specified completion date contracts, extensions of Contract Time will not be granted due to such suspension.

The Contractor shall have no claim for additional compensation as a result of suspension ordered for the reasons set forth in this Subsection.

01310.15 Failure to Complete on Time.

The Contractor and the Owner recognize that delay in Completion results in damages to the Owner in terms of the effect of the delay on the use of the Project, upon the convenience of the Property Owners, and also results in additional costs to the Owner for Engineer, inspection, and administration of the Contract. Because it is difficult or impossible to accurately estimate the damages incurred, and not intended as a penalty or fine but rather as an agreed-upon estimate of actual damages, the parties agree that if the Contractor fails to complete the Contract within the time stated in the Specification, or within such further time as may have been granted according to the provisions of the Contract, the Contractor shall pay the Owner liquidated damages in the amount of \$1,000 per day for each day beginning on the first day after the approved date of Completion. Such liquidated damages shall be paid for each and every day, as hereafter, defined that the Contractor is in default to complete the Contract.

01310.16 Events of default.

The following shall constitute events of default under this Agreement:

1. Contractor fails to begin the Work under the Contract within the time specified in Subsection 01310.3 (Commencement of Work); or
2. Contractor fails to perform the Work with sufficient workers and equipment or with sufficient materials to ensure its completion within the Contract Time specified, or any extension thereof; or
3. Contractor fails to complete the Contract within the Contract Time specified, as extended; or
4. Contractor performs the Work unsuitably or neglects or refuses to remove materials or to again perform such Work as may be rejected as unacceptable and unsuitable; or
5. Contractor discontinues the prosecution of the Work; or
6. Contractor fails to resume Work which has been discontinued within a reasonable time after notice to do so; or

7. Contractor becomes insolvent or is declared bankrupt, or commits any act of bankruptcy or insolvency; or
8. Contractor allows any final judgment to stand against it unsatisfied for a period of ten (10) days; or
9. Contractor makes an assignment for the benefit of creditors; or
10. Contractor fails to acquire or maintain the required insurance; or
11. Contractor fails to comply with applicable laws and regulations governing its conduct of business in the State of New Jersey and under this Contract; or
12. Contractor is a party to fraud; or
13. Contractor for any other cause whatsoever, fails to carry out the Work in an acceptable manner;

01310.17 OWNER REMEDIES UPON EVENT OF DEFAULT.

The Engineer will give written notice to the Contractor of Event of Default under Section 01310.16 and demanding the immediate elimination of such event of default. The Contractor, shall correct said event of default within a period of ten (10) days after such notice. If the contractor fails to cure said event of default the Owner shall, in its sole discretion, have the following remedies:

- a. Issue a Notice of Default to the Contractor and Surety.
- b. Appropriate any or all materials and equipment on the site as may be suitable and acceptable and may direct the Surety to complete the Contract.
- c. Appropriate any or all materials and equipment on the site as may be suitable and acceptable and enter into an agreement for the completion of the Contract according to the terms and provisions thereof with another contractor
- d. Use such other methods required for the completion of the Contract, including completion of the Work by the Owner.

The Contractor and Surety are not relieved of the assessment of liquidated damages under Subsection 01310.15 because of the Contractor's default.

All costs and charges incurred by the Owner, together with the cost of completing the Work, will be deducted from any monies due or that may become due the Contractor and Surety. If such expense exceeds the sum that would be available from such monies, then the Contractor and the Surety shall be liable and shall pay to the Owner the amount of such excess.

The rights and remedies of the Owner herein are in addition to any other rights and remedies provided by law or under the Contract and the Bonds.

If, after notice of default under the provisions of this Subsection, it is determined for any reason that the Contractor was not in default or that the delay was excusable, the rights and obligations of the parties are the same as if the notice of termination for convenience had been issued pursuant to Subsection 01310.18.

Where the Owner's default of the Contractor pursuant to the provisions of this Subsection is found by a court to be legally improper, the Contract will be treated as if terminated for convenience pursuant to Subsection 01310.18 and such termination is to be compensated for according to provisions of Subsection 01310.18.

01310.18 Termination of Contract for convenience of Owner.

The Owner may, by written order, terminate the Contract or any portion thereof for convenience after determining that for reasons beyond the Contractor's control, the Contractor is unable to proceed with or complete the Work as contracted for, or that termination is in the Owner's interest.

Upon receipt of an Order of Termination for convenience, the Contractor shall not proceed with any item of Work that is not specified in the Order of Termination. The Contractor shall complete all items of Work specified in the termination order. Such Work shall include punch list items and all Work necessary to ensure the safety of the public, to properly secure existing work already constructed or partially constructed, and to secure the Project Area. This work so ordered shall be performed according to the Contract Documents and may include items of work not in the original Contract. The Contract shall be considered substantially complete upon completion and acceptance of all items of Work specified in the Order of Termination, except punch list items. After completion of the punch list items and all documents required by the Contract, the Contract shall terminate upon issuance of a Final Certificate and payment. The Owner reserves the right to declare in default a Contractor who fails to carry out the conditions set forth in an Order of Termination for convenience.

When the Owner orders termination of the Contract for convenience, all completed items of Work as of that date will be paid for based on the number of units completed and the Contract unit price, or for items of work performed on a lump sum basis, based on the percentage of the lump sum item of work performed. Items that are eliminated in their entirety by such termination will not be paid for.

Materials obtained by the Contractor for the Work but which have not been incorporated therein may, at the option of the Engineer, be purchased from the Contractor at actual cost delivered to a prescribed location or otherwise disposed of as mutually agreed.

Within 45 days of the effective termination date, the Contractor shall submit claims for additional costs actually incurred not covered above or elsewhere in the Specifications. Such claims may only include 1) reasonable mobilization efforts, 2) subcontractor costs not otherwise paid for, and 3) guaranteed payments for private land usage as part of the original Contract. Claims shall not include lost profits or expectation profits from work eliminated by the termination for convenience.

In terminating a Contract pursuant to this Subsection:

1. The Contractor shall make cost records available to the extent necessary to determine the validity and amount of each item for which it seeks compensation.
2. The Contractor shall not be relieved of contractual responsibilities for the Work completed, nor shall the surety be relieved of its obligations for and concerning any just claim arising out of the Work performed.
3. The Contractor shall, if so directed by the Engineer, remove promptly any or all of its equipment and supplies from the Project Area or other property of the Owner. If the Contractor fails to remove the equipment and supplies as directed, the Engineer may remove such equipment and supplies at the expense of the Contractor.

01310.19 TERMINATION OF CONTRACT FOR CAUSE.

The Owner may also, by written order, terminate the Contract or any portion thereof for cause after determining that reasons for default as stated in Subsection 01310.16 exist. The decision whether to terminate for cause or declare the Contractor in default will be made in the sole discretion of the Owner acting in its own best interest. Before the issuance of an Order of Termination for cause, the Engineer will give written notice to the Contractor and Surety of the causes for the proposed termination. The notice will demand the elimination of such causes.

If the Contractor or Surety, within a period of ten days after such notice, does not proceed in accordance therewith, the Owner may terminate the Contract for cause.

The Order of Termination for cause will terminate the Contractor's right to proceed with any items of Work except as specified in the termination order. Such work will include punch list items and all work necessary

to ensure the safety of the public, to properly secure existing work already constructed or partially constructed, and to secure the Project Area. This work so ordered shall be performed according to the Contract Documents and may include such items of Work not in the original Contract. Substantial Completion shall occur when all Work specified in the termination order, except for punch list items, is complete and accepted by the Engineer. After the completion of all punch list items and all documents required by the Contract, the Contract shall terminate upon issuance of a Final Certificate and payment.

When the Owner terminates the Contract for cause, all completed items of Work as of that date will be paid for at the Contract price. Payment for partially completed work will be made based on the unit prices or portion thereof provided that such payment does not exceed the Contract price of the Pay Item under which the Work was performed. Items that are eliminated in their entirety by such termination will not be paid for. No other costs will be allowed to the Contractor.

In terminating a Contract for cause, the Owner does not waive its right to sue the Contractor for any costs incurred by the Owner as a result of the termination, including the additional costs of completing the Project. The Owner reserves the right to declare in default a Contractor who fails to carry out the conditions set forth in an Order of Termination for cause.

Where the Owner's termination of the Contract for cause pursuant to the provisions of this Subsection is found by a court to be legally improper, the termination of the Contract for cause will be treated as if it had been a termination for convenience, and such termination is to be compensated for according to the provisions of this Subsection governing terminations for convenience.

In terminating a Contract pursuant to this Subsection:

1. The Contractor shall make cost records available to the extent necessary to determine the validity and amount of each item for which it seeks compensation.
2. The Contractor shall not be relieved of contractual responsibilities for the Work completed, nor shall the surety be relieved of its obligations for and concerning any just claim arising out of the Work performed.
3. The Contractor shall, if so directed by the Engineer, remove promptly any or all of its equipment and supplies from the Project Area or other property of the Owner. If the Contractor fails to remove the equipment and supplies as directed, the Engineer may remove such equipment and supplies at the expense of the Contractor.

01330 Submittals RESERVED

01360 *Additional Legal Provisions*

01360.1 Legal Jurisdiction and Governing Law.

Any action or proceeding arising hereunder shall be brought in the Courts of the State of New Jersey; provided, that if any such action or proceeding arises under the Constitution, the laws or treaties of the United States of America, or if there is a diversity of citizenship between the parties hereto, so that it is to be brought in a United States District Court, it shall be brought in the United States District Court for the District of New Jersey or any successor court thereto.

This Contract shall be governed by the laws of the State of New Jersey.

01360.2 Process for the Resolution of Contract Disputes.

In an effort to resolve any conflicts that arise during the construction of the Project or following the completion of the Project, before any action or proceeding is commenced, the Contractor and Owner agree that all disputes between them arising out of or relating to this Contract or the Project shall be submitted to

nonbinding mediation unless the parties mutually agree otherwise. The parties agree to use a professional mediator from the American Arbitration Association, the International Institute for Conflict Prevention and Resolution (CPR Institute), or like organization selected by agreement or, absent agreement, through selection procedures administered by the CPR Institute. Within a period of forty-five (45) days after the request for mediation, the parties agree to convene with the Mediator, with business representatives present, for at least one session to attempt to resolve the dispute. In no event shall mediation delay commencement of an action or proceeding for more than 70 days, absent agreement of the parties, or interfere with the availability of emergency relief.

The Contractor and Owner further agree to include a similar mediation provision in all agreements with independent contractors and consultants retained for the Project and to require all independent contractors and consultants also to include a similar mediation provision in all agreements with their subcontractors, sub-consultants, suppliers and fabricators, thereby providing for mediation as the primary method for dispute resolution between the parties to all those agreements. All parties agree that they can be joined as a party in any mediation proceedings conducted pursuant to this Subsection.

01360.3 Laws to be Observed.

The Contractor shall keep fully informed of all Federal, State, and local laws, ordinances, and regulations, and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any manner affect those engaged or employed on the Work, or which in any way affect the conduct of the Work. The Contractor shall at all times observe and comply with, and shall cause its agents and employees to observe and comply with, all such laws, ordinances, regulations, orders, and decrees and shall defend, protect, indemnify and save harmless the Owner, the Casino Licensee, and their respective members, directors, officers, and employees against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order, or decree, whether by the Contractor or the Contractor's agents or employees, subcontractors of any tier, suppliers, or materialmen. If any discrepancy or inconsistency is discovered between the Contract Documents and any such law, ordinance, regulation, order, or decree, the Contractor shall immediately report the same to the Engineer in writing.

01360.4 Permits, Licenses, and Taxes.

The Contractor shall procure all permits, grants, and licenses, pay all charges, fees, and taxes, and give all notices necessary and incidental to the due and lawful prosecution of the Work except where the Owner has procured such permits, grants, or licenses for temporary or permanent construction. The Contractor shall advise the issuing agency or party of its proposed operations and obtain their cooperation and such supplemental permission as may be necessary. Before submitting its bid, the Contractor should obtain from the Owner all available information on the permits, grants, and licenses the Owner has obtained. Charges incurred by the Contractor for permits, grants, and licenses in connection with the Work shall be paid by the Contractor and shall be included in the Total Contract Price.

01360.5 Patented Devices, Materials, and Processes.

If any design, device, material or process covered by letters of patent or copyright is used in the Work, the Contractor shall provide for such use by suitable legal agreement with the patentee or owner. The Contractor shall assume all costs arising from the use of patented materials, equipment, devices, or processes used on or incorporated in the Work. The Contractor shall defend, indemnify, and save harmless the Owner, the Casino Licensee, any affected third party, or political subdivision (the "Indemnitees") from any and all claims for infringement by reason of the use of any such patented design, device, material, or process, or any trademark or copyright, and shall indemnify the Indemnitees for any costs, expenses, and damages which it may be obliged to pay by reason of an infringement, at any time during the performance of the Work or after Acceptance.

01360.6 Public Convenience and Safety.

The Contractor shall at all times conduct the Work to ensure the least possible obstruction to traffic in right-of-ways. The safety and convenience of the general public along the Project Area, and the protection of persons and property shall be provided for as specified under applicable laws and regulations.

The Contractor shall exercise precaution at all times for the protection of persons and property. The safety provisions of applicable laws, OSHA regulations, international building and construction codes, and the rules and regulations of the New Jersey Department of Labor shall be observed at all times.

01360.7 Barricades and Warning Signs.

In public right-of-ways, the Contractor shall provide, erect, and maintain all necessary barricades, suitable and sufficient lights, danger signals, signs, and other devices according to applicable laws and regulations, and shall take all necessary precautions for the protection of the Work and safety of the public. Within the Project Area, the Contractor shall take all necessary precautions to mitigate public access during non-working hours.

01360.8 RESERVED

01360.9 Independent Contractor.

The relationship of the Contractor to the Owner is that of an independent contractor, and Contractor, according to its status as an independent contractor, covenants and agrees that it shall conduct itself consistent with such status, that it shall neither hold itself out as nor claim to be an officer or employee of the Owner by reason hereof. The Contractor shall not, by reason hereof, make any claim, demand, or application to or for any right or privilege applicable to an officer or employee of the Owner, including, but not limited to, workers compensation coverage, unemployment insurance benefits, social security coverage, or retirement membership or credit.

01360.10 Third Party Beneficiary Clause.

It is specifically agreed between the parties executing the Contract that no provision of the Contract is intended to make the public or any member thereof a third party beneficiary hereunder, or to authorize anyone not a party to the Contract to maintain a suit for personal injuries or property damage pursuant to the terms or provisions of the Contract.

It is the further intent of the Owner and the Contractor in executing the Contract that no individual, firm, corporation, or any combination thereof, that supplies materials, labor, services, or equipment to the Contractor for the performance of the Work becomes thereby a third party beneficiary of the Contract.

01360.11 Assignment of Contract Funds and Claims.

The Contractor shall not transfer or assign to any party any contract funds, due or to become due, or claims of any nature it has against the Owner, without the written approval of the Owner having first been obtained.

01360.12 Risks Assumed by the Contractor.

The Contractor assumes the following distinct and several risks, whether they arise from acts or omissions, whether negligent or not, of itself, its subcontractors, suppliers, materialmen, employees, agents, and all others working for the Contractor on the Project, and whether such risks are within or beyond the control of the Contractor as described in Subparts 1 through 4 below. The risks are as follows:

1. **Risks of Loss or Damage to the Permanent Construction.** Until Acceptance, and within the limits of the Project Area, the Contractor shall bear the risk of all loss or damage to all permanent construction and temporary construction performed under this Contract and to materials, whether or not it has received payment for such construction or materials. The Contractor shall take every precaution, as allowed by the Contract against injury or damage to any part of the construction or

to materials and equipment by the action of the elements, the traveling public, vandalism, or from any other cause, whether arising from the execution or the non-execution of the Work. The Contractor shall promptly repair, replace, and make good any such damage or loss without cost to the Owner. The Contractor shall not bear such risk of loss or damage, which arises from acts of war or floods, tidal waves, earthquakes, cyclones, tornadoes, hurricanes, or other cataclysmic natural phenomenon unless such loss or damage is covered by insurance.

The Contractor shall, in furtherance of the above paragraph, but not by way of limitation, at the Contractor's expense, erect such temporary structures where necessary to protect the Work from damage. The Contractor shall assume the risks for failure to take such actions.

In case of suspension of the Work from any cause whatever, the Contractor shall continue to be responsible for the Project as provided above and shall take such precautions as may be necessary to prevent damage to the Project, and shall erect any necessary temporary structures, signs, or other facilities. If ordered by the Engineer, the Contractor shall properly store, during such suspension of the Work, materials which have been partially paid for or furnished by the Owner. The Owner will be entitled to the possession of such materials, and the Contractor shall promptly return the same to the Project site when requested. The Contractor shall not dispose of any of the materials so stored except on written authorization. The Contractor shall be responsible for the loss of or damage to such materials.

2. **Risks of Claims on Account of Injury, Loss, or Damage.** The Contractor shall bear the risk of claims, just or unjust, by third persons, including, without limitation, the Property Owners, made against the Contractor or the Owner, on account of injuries (including wrongful death), loss, or damage of any kind whatsoever arising or alleged to arise out of or in connection with the performance of the Work, except if the injury, loss or damages is caused by or results from the sole negligence of the Owner. The risk of claims, whether or not actually caused by or resulting from the performance of the Work or out of or in connection with the Contractor's operations or presence at or in the vicinity of the Project Area or Owner premises, whether such claims are made and whether such injuries, loss, and damages are sustained, applies at any time both before and after Acceptance.
3. **Risks of Loss to Property of Those Performing the Work.** The Contractor shall bear the risk of loss or damage to any property of the Contractor, and of claims made against the Contractor or the Owner for loss or damage to any property of subcontractors, materialmen, workers, and others performing the Work, and to Property Owners or Tenants. Said risk occurs at any time before completion of removal of such property from the Project Area or the Owner's premises, or the vicinity thereof.
4. **Risks of Claims Related to the Contractor's Safety and Health Program.** The Contractor shall bear the risk of any action from or alleged to arise from the Contractor's Safety and Health Program.

The Contractor shall indemnify and save harmless the Owner from any and all claims or alleged claims described in Subsections 2, 3, and 4 herein-above, and for all expense incurred by the Owner in the defense, including legal and related costs, settlement, or satisfaction thereof. If so directed, the Contractor shall at its own expense defend against such claims, in which event it shall not, without obtaining express advance permission from the Owner, raise any defense involving in any way jurisdiction of the tribunal, immunity of the Owner, or the provisions of any statutes respecting suits against the Owner.

The provisions of this Subsection are also for the benefit of the Casino Licensee, and all officers, agents, and employees of the Owner and Casino Licensee so that they have all the rights which they would have

under this Subsection if they were named at each place under this Subsection at which the Owner is named, including a direct right of action against the Contractor to enforce the foregoing indemnity.

Neither Acceptance nor the making of final payment releases the Contractor from its obligations under this Subsection. Moreover, neither the enumeration in this Subsection nor the enumeration elsewhere in this Contract of particular risks assumed by the Contractor or of particular claims for which it is responsible shall be deemed:

1. To limit the effect of the provisions of this Subsection or of any other provision of the Contract relating to such risks or claims, or
2. To imply that the Contractor assumes or is responsible for risks or claims only of the type enumerated in this Subsection or in any Contract, or
3. To limit the risks that the Contractor would assume or the claims for which the Contractor would be responsible in the absence of such enumerations.

The Contractor expressly understands and agrees that any insurance protection required by the Contract, or otherwise provided by the Contractor, in no way limits the Contractor's responsibility to defend, indemnify, and save harmless the Owner as herein provided. Such insurance requirements are designed to provide greater assurance to the Owner that the Contractor is financially able to discharge its obligations under this Subsection and as to the risks assumed elsewhere in the Contract, and are not in any way construed as a limitation on the nature and extent of such obligations.

01360.13 Personal Liability of Officers, Members and Agents of Owner.

As between the Contractor and Owner, there shall be no liability upon the members, directors, officers, employees, and any other designated agent or representative, either personally or as officials of the Owner in carrying out any of the provisions of the Contract nor in exercising any power or authority granted to them by or within the scope of the Contract, it being understood that in all such matters they act solely as agents and representatives of the Owner.

01360.14 Recovery of Monies by the Owner.

Whenever it is provided in the Contract Documents that the Owner or Engineer is to withhold or deduct money from any monies due or that may become due the Contractor, or that the Contractor is to pay or return monies for any reason, or that the Owner or Engineer can charge against the Contractor certain costs or assessments, or that the Owner or Engineer can recover any sum for any reason from the Contractor, it is understood that the Owner has available to it any monies due or that may become due the Contractor under the Contract and on other contracts between the Contractor and the Owner. Such other contracts shall include joint ventures in which the Contractor is a participant but only to the extent of its participation. The right to recover against the Contractor as herein provided is in addition to and does not affect the right of the Owner to seek recovery against the Contractor or Surety under the Contract, bonds, or as otherwise allowed by law. The Engineer shall provide the Contractor with sufficient documentation to reasonably outline the basis for such withholding or deduction prior to the Owner withholding or deducting any such sums, as provided under the Contract.

01360.15 No Waiver of Legal Rights.

Notwithstanding any other provision of the Contract and provided that the Owner has conducted a diligent review of Contractor invoices during the prosecution of the Project, for a period of six months after Acceptance, all estimates and payments made pursuant to Section 01200, including the Final Certificates and Final Payment, are subject to correction and adjustment for clerical or other errors in the calculations involved in the determination of quantities and payments. The Contractor and the Owner agree to pay to the other any sum due under the provisions of this Subsection, provided, however, if the total sum to be paid is less than \$100, payment will not be made.

A waiver on the part of the Owner of any breach of any part of the Contract is not to be held as a waiver of any other or subsequent breach.

The Contractor, without prejudice to the terms of the Contract, shall be liable to the Owner at any time both before and after Acceptance for latent defects, fraud, such gross mistakes as may amount to fraud, or actions affecting the Owner's rights under any warranty or guarantee.

01360.16 Limitations of Liability.

In any event, whether under the provisions of the Contract, as a result of breach of contract, tort (including negligence), or otherwise, the Owner and the Contractor will not be liable to each other for any special, consequential, incidental, or penal damages including, but not limited to, loss of profit or revenues, loss of rental value for contractor-owned equipment, damages to associated equipment, cost of capital, or interest of any nature, loss of use, loss of business, loss of reputation, loss of management or employee productivity or of the services of such persons, principal office expense including the compensation of personnel stationed there, and loss of financing. Nothing in this Subsection shall be deemed to preclude an award of liquidated direct damages, when applicable, in accordance with the requirements of the Contract Documents. Nothing in this Subsection shall be deemed to preclude or limit in any way the Contractor's liability for direct or indirect claims for injury, loss or damages of any kind whatsoever asserted by third party owners of property adjacent to or in the Project Area, including, without limitation the Property Owners, except if the claimed injury, loss or damage is caused by or results from the sole negligence of the Owner.

01360.17 RESERVED

01400 Quality Requirements

01420 References

All materials, products and work methods shall meet industry best practice standards and applicable regulatory requirements of contractors performing similar work in the State of the New Jersey.

01450 Quality Control - Work

01450.1 Authority of the Engineer.

The Engineer will decide all questions that may arise as to the quality and acceptability of the Work and as to the rate of progress of the Work, all questions that may arise as to the interpretation of the Contract Documents, all questions as to the acceptable fulfillment of the Contract on the part of the Contractor, and all questions as to compensation. All questions as to the interpretation of the Contract Documents shall be submitted to the Engineer in writing.

The Engineer has the authority to suspend the Work wholly or in part pursuant to 01310.13 or 01310.14 and to suspend partial payments under Subsection 01290.3 due to the failure of the Contractor to correct conditions unsafe for the workers or the general public, for failure to carry out provisions of the Contract, or for failure to carry out orders. The Engineer may also suspend the Work wholly or in part for such periods as deemed necessary due to unsuitable weather, for conditions considered unsuitable for the prosecution of the Work, or for any other condition or reason deemed to be in the Owner's interest.

01450.2 Communications.

Unless otherwise directed, all communications with the Owner shall be sent to the Engineer. Where communications are directed to persons other than the Engineer, a clear copy shall be sent to the Engineer.

01450.3 Plans and Specifications.

The Plans consist of general drawings and show such details as are necessary to give a comprehensive idea of the construction contemplated. The Contractor shall keep one set of Plans available on the Project site at all times. All alterations affecting the requirements and information given on the Plans will be authorized in writing.

Omissions from the Plans or Specifications of details of Work which are manifestly necessary to carry out the intent of the Contract Documents, or which are customarily included, shall not relieve the Contractor from including such omitted details of Work, but they shall be included as if fully and correctly set forth and described.

The Contractor will receive two (2) copy of the latest Project Manual and three (3) sets of Drawings.

01450.4 Reserved.

01450.5 Conformity with Contract Documents.

In the event the Engineer finds the Work not in conformance with the Contract Documents but that reasonably acceptable Work has been produced, the Engineer will determine if the Work is to be accepted and remain in place. In this event, the Engineer will document the basis of the acceptability of the Work and provide for an appropriate adjustment in the contract price for such Work as deemed necessary. If an appropriate adjustment cannot be negotiated, the Work shall be removed and replaced or otherwise corrected at no cost to the Owner.

In the event the Engineer finds the Work not in conformance with the Contract Documents, resulting in an inferior or unsatisfactory product, the Work shall be removed and replaced or otherwise corrected at no cost to the Owner.

Neither the observations of the Engineer in the administration of the Contract, nor inspections, tests, or approvals by persons other than the Contractor relieve the Contractor from its obligation to perform the Work according to the Contract Documents.

01450.6 Special Inspection, Testing, or Approval.

Whenever the Engineer considers it necessary or advisable to ensure the proper implementation of the Contract Documents, the Engineer has authority to require special inspection or testing of the Work in addition to that required elsewhere in the Contract Documents, whether or not such Work is then fabricated, installed, or completed. However, neither the Engineer's authority to act under this Subsection, nor any decision made by the Engineer either to exercise or not to exercise such authority, creates a duty or responsibility of the Engineer to the Contractor, any subcontractor, or any of their agents or employees performing any of the Work.

If after commencement of the Work the Engineer determines that any Work requires special inspection, testing, or approval not provided for elsewhere in the Contract Documents, the Engineer will perform such inspection, testing, or approval using Owner facilities, by contracting with others for such services, or by instructing the Contractor by Construction change directive to order special inspection, testing, or approval. If such special inspection or testing reveals a failure of the Work to comply with the requirements of the Contract Documents or, with respect to the performance of the Work, with laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction, the Contractor shall bear all costs thereof, including the Engineer's additional services made necessary by such failure. If tests reveal no such failure, the Owner will bear such costs, and a Supplementary Agreement will be negotiated.

01450.7 Coordination of Contract Documents.

The Contract Documents are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a functionally complete Project.

In case of discrepancy, calculated dimensions will govern over scaled dimensions; Specifications will govern over Plans. Division 1 and Division 2 terms and conditions in the Contract will prevail over conflicting Division 1 and Division 2 terms and conditions contained in the Plans.

As the Work progresses, it is anticipated that the Contractor shall frequently request information from the Engineer relative to the interpretation and coordination of the Contract Documents. Such applications shall be in writing. Should it appear that the Work to be done or any of the matters relative thereto are not sufficiently detailed or explained in the Contract Documents, the Contractor shall request from the Engineer such further explanations as may be necessary and shall conform to them as part of the Contract.

Both parties realize that in performing the Work, field conditions may require modifications in the Plans and quantities of Work involved. Work under all Pay Items must be carried out to meet these field conditions to the satisfaction of the Engineer and according to its directions and the Contract Documents.

The Contractor shall not take advantage of any apparent error or omission in the Contract Documents. In the event the Contractor discovers any discrepancy, error, or omission in the Plans, Specifications, or other Contract Documents, or if there is any doubt or question as to the intent or meaning of the Plans, Specifications, or other Contract Documents, the Contractor shall immediately notify the Engineer in writing. The Engineer will promptly make, in writing, such corrections and interpretations as deemed necessary.

01450.8 Cooperation by Contractor.

The Contractor shall give the Work the constant attention necessary to facilitate the progress thereof, and shall cooperate with the Engineer, the Engineer's inspectors, and other contractors in every way possible.

When the Contractor is comprised of two or more persons, firms, partnerships, or corporations functioning on a joint venture basis, said Contractor shall designate in writing, before starting Work, the name of one individual who shall have the authority to represent and act for the joint venture.

The Contractor shall designate in writing before starting Work, a competent, English-speaking superintendent capable of reading and thoroughly understanding the Contract Documents, and thoroughly experienced in the type of construction being performed. The superintendent shall have the authority to represent and act for the Contractor. An alternate to the superintendent, with equal authority and qualifications, may also be designated.

The superintendent or the alternate shall be present at the site of the Project at all times while Work is actually in progress on the Contract irrespective of the amount of Work subcontracted. The superintendent or the alternate shall have full authority to execute orders or direction from the Engineer, without delay, and to promptly supply such materials, equipment, tools, labor, and incidentals as may be required. When Work is not in progress and during periods when Work is suspended, arrangements acceptable to the Engineer shall be made for any emergency Work that may be required.

Whenever the superintendent or the alternate is not present on the site or at the location of any particular part of the Work where it may be desired to give direction, the Engineer may suspend all of the Work or the particular Work in reference until the superintendent or the alternate is present. Such suspension shall not be the basis of any claim against the Owner.

01450.9 RESERVED.

01450.10 Cooperation Between Contractors.

The Owner reserves the right at any time to contract for and perform other or additional work in, on or near the Project Area.

When separate contracts are let within the limits of the Project Area, or in areas adjacent thereto, the Contractor shall conduct its Work so as not to interfere with or hinder the progress or completion of the work being performed by other contractors. Moreover, the Contractor assumes the positive obligation of cooperating with such other contractors and coordinating its activities with theirs. If there is a difference of opinion as to the respective rights of the Contractor and others doing work within the limits of or adjacent to the Project Area, the Engineer will decide as to the respective rights of the various parties involved in order to secure the completion of the Owner's Work in general harmony and in a satisfactory manner. The decision of the Engineer is final and binding and is not cause for claims by the Contractor for additional compensation.

The Contractor shall assume all liability, financial or otherwise, in connection with its Contract, and, provided that Owner affords reasonable access to the Project Area during the Contract Time, hereby waives any and all claims against the Owner for additional compensation that may arise because of inconvenience, delay, or loss experienced by it because of the presence and operations of other contractors working within the limits of or adjacent to the Project Area.

The Contractor shall arrange its Work and shall place and dispose of the materials being used so as not to interfere with the operation of the other contractors within the limits of the Project Area or adjacent thereto. The Contractor shall join its Work with that of the others in an acceptable manner and shall perform it in proper sequence to that of the others.

The Contractor is not responsible for damage to Work performed on the Contract or on other contracts within or adjacent to the site of the Project that may be caused by or on account of the work of other contractors. The Contractor is responsible for any damage done or caused by its Work or forces to the work performed by other contractors within or adjacent to the site of the Project, and the Contractor shall repair or make good any such damage in a manner satisfactory to the Engineer and at no cost to the Owner.

The provisions of this Subsection also apply to utilities and their contractors working in the Project Area or adjacent thereto.

01450.11 RESERVED.

01450.12 Authority and Duties of the Engineer.

As the direct representative of the Owner, the Engineer has immediate charge of the technical details of the Project. The Engineer is responsible for the administration of the Contract. This responsibility includes the authority to reject defective material and to suspend any or all of the Work according to Subsection 01310.13 and 01310.14.

01450.13 Duties of the Inspector.

Inspectors employed by the Engineer are authorized to inspect all Work. Such inspection may extend to all or any part of the Work and to the preparation, fabrication, or manufacture of the materials to be used. The inspector is not authorized to alter or waive the provisions of the Contract. The inspector is not authorized to issue instructions contrary to the Contract Documents or to act as foreman for the Contractor; however, the inspector has the authority to reject Work subject to confirmation by the Engineer.

01450.14 Inspection of Work.

Each part or detail of the Work is subject to inspection by the Engineer. The Engineer shall be allowed access to all parts of the Work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection. When the Engineer is in or about the site of the Work in the course of its duties, the Engineer is deemed conclusively to be an invitee of the Contractor. If the Contractor is not the owner of the place where fabrication, preparation, or manufacture is in progress,

the owner thereof shall be deemed to be the agent of the Contractor with respect to the obligation assumed hereunder. The Contractor or its agent shall be responsible for the payment of claims for injuries to the Engineer due to negligence on the part of the Contractor or its agent.

At the direction of the Engineer, the Contractor, at any time before Acceptance, shall remove or uncover specified portions of the finished Work that the Engineer had previously inspected. After examination, the Contractor shall restore said portions of the Work to the standard required by the Contract Documents. Should the Work so exposed or examined prove acceptable, the uncovering, or removing, and the replacing of the covering, or making good of the parts removed, will be paid for as Extra Work; however, should the Work so exposed or examined prove unacceptable, the uncovering, or removing, and the replacing of the covering, or making good of the parts removed, will be at no cost to the Owner.

The Engineer may order any Work done without the Engineer's inspection to be removed and replaced at the Contractor's expense. Payment for the Work will be made and the uncovering, or removing, and the replacing of the covering, or making good of the parts removed, of the un-inspected Work will be paid for as Extra Work only if all of the following conditions are met:

1. The Work removed, uncovered, and/or replaced proves to have been acceptable according to the Contract Documents; and
2. The Contractor gave reasonable notice in writing to the Owner that the un-inspected work was to be performed; and
3. The Contractor, in performing the un-inspected work, did not do so in the face of a directive from the Owner that such work not be performed.

The Contractor is responsible for carrying out the provisions of the Contract at all times and for control of the quality of the Work regardless of whether an authorized inspector is present or not. This obligation to perform the Work according to the Contract Documents is not relieved by the observations of the Engineer in the administration of the Contract, nor by inspections, tests, or approvals by others. Work not meeting the Contract requirements shall be made good, and unsuitable Work may be rejected, notwithstanding that such Work had been previously inspected and approved by the Engineer or that payment therefor has been included in a monthly estimate certificate.

01450.15 Removal of Unacceptable and Unauthorized Work.

All Work that does not conform to the requirements of the Contract is unacceptable unless otherwise determined acceptable under the provisions in Subsection 01450.5 (Conformity with Contract Documents). Unacceptable Work, from any cause, found to exist before Acceptance, shall be remedied in an acceptable manner at no cost to the Owner

Work done contrary to the instructions of the Engineer, or any Extra Work done without authority is considered as unauthorized and will not be paid for under the provisions of the Contract. Work so done may be ordered remedied at no cost to the Owner.

If the Contractor fails to comply promptly with any order of the Engineer made under the provisions of this Subsection, the Engineer will have authority to cause unacceptable Work to be remedied by others and to deduct the costs thereof from any monies due or that may become due the Contractor.

01450.16 Load Restrictions.

Within or on Roadways used for transportation of Equipment the operation of Equipment of such weight or so loaded as to cause damage to structures or the Roadway or to any other type of construction will not be permitted. In no case shall legal load limits be exceeded when Equipment is used for hauling to and from the Project Area unless permitted in writing by the appropriate governmental authorities. The Contractor shall be responsible for all damage done by it or its subcontractors' hauling Equipment.

Without limiting any other obligation set forth in the Contract, the Contractor shall be solely responsible for complying with legal load limits.

If the Engineer becomes aware of repeated violations of roadway load limits, the Engineer may suspend operations until the condition is remedied to the satisfaction of the Engineer. The Owner may not make payment for any Materials in excess of the legal truck load limit.

01450.17 Maintenance During Construction.

Except as provided for below, the Contractor shall be responsible for maintenance within the Project Area until Acceptance. This maintenance shall consist of continuous and effective work prosecuted day by day, with adequate Equipment and forces to the end that the Project Area, surroundings, Roadways, shall be kept in satisfactory condition at all times.

On any section of haul route used on paved or unpaved roadways, whether provided for in the Contract Documents or opened as directed, any damage to the roadways due to the Contractor's operations shall be repaired at no cost to the Owner. Nothing in this Subsection shall be construed to limit or change the risks assumed by the Contractor pursuant to 01360.12.

01450.18 Failure to Maintain Project Area and Surroundings.

If the Contractor at any time fails to comply with the provisions of Subsection 01450.17, the Engineer will immediately notify the Contractor of such noncompliance. If the Contractor fails to remedy unsatisfactory maintenance within 24 hours after receipt of such notice, the Engineer may proceed to maintain the Project and deduct the entire cost of this maintenance from any monies due or that may become due the Contractor.

01450.19 Partial Acceptance.

If at any time during the prosecution of the Project the Contractor completes a unit or portion of the Project, the Contractor may request the Engineer to make final inspection of that unit. If the Engineer finds upon inspection that the unit has been satisfactorily completed in compliance with the Contract, the Engineer may accept that unit as being completed, and the Contractor may be relieved of the responsibility of doing further Work on or maintaining that unit or portion of the Project. The Engineer reserves the right to reject the request made by the Contractor, if the Engineer determines that the unit or portion of the Project should not be the subject of a partial acceptance. Such partial acceptance shall in no way void or alter any of the terms of the Contract, including Subsections 01360.12 (Risks Assumed by the Contractor) and Subsection 00620 (Insurance), nor shall it be construed as relieving the Contractor of full responsibility for making good defective work or materials found at any time before Acceptance pursuant to Subsection 01450.21 (Completion and Acceptance).

01450.20 Substantial Completion.

When the Contractor determines that the Work is substantially complete, the Contractor shall prepare a written notice thereof for submission to the Engineer listing the items remaining to be completed or corrected. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work according to the Contract Documents. If the Engineer determines that the Work is substantially complete, the Engineer will then prepare a letter which states the date of Substantial Completion and establishes a reasonable time within which the Contractor shall perform the final cleanup and repair unacceptable Work, which time may be before Contract Time as modified. The letter will be submitted to the Contractor for its prompt compliance therewith.

If, however, the inspection discloses that the Work is not substantially completed to the Engineer's satisfaction, the Engineer will give the Contractor the necessary instructions for completion and correction of same, and the Contractor shall immediately comply with and execute such instructions. Upon completion and correction of the Work, the Contractor shall re-notify the Engineer and another inspection will be made.

01450.21 Completion and Acceptance.

Upon receipt by the Engineer of written notice from the Contractor that the Work has reached Completion and is ready for final inspection and Acceptance, the Engineer will promptly make such inspection. When such inspection indicates that the Work is in compliance with the Contract, the Engineer will promptly begin the process to issue a Certificate of Completion stating that, to the best of the Engineer's knowledge, information, and belief, and on the basis of observations and inspections, the Work has been completed according to the terms and conditions of the Contract. If, however, the final inspection discloses that the Work has not reached Completion, the Engineer will give the Contractor the necessary instructions for the correction of deficiencies, and the Contractor shall immediately comply with and execute such instructions. Upon correction of the deficiencies, the Contractor shall re-notify the Engineer, and another inspection will be made. This procedure is to be repeated until a Certificate of Completion is issued.

At the request of the Contractor, the Engineer may issue a Certificate of Completion without receiving all required documents, certificates, or proofs of compliance. The Contractor's request must satisfactorily establish that the Contractor could not reasonably and in good faith provide some of the required documents, certificates, or proofs of compliance at a time contemporaneous with Completion and with the Project being ready for use by the Property Owners to the degree contemplated by the Contract. In such instances where a Certificate of Completion is issued, the Contractor shall expeditiously attempt to provide the exempted document, certificate, or proofs of compliance. Final payment will not be made, however, until all such documents, certificates, and proofs of compliance have been satisfactorily executed and delivered to the Engineer.

The Certificate of Completion is issued establishing Completion as of the date of the notice or re-notice from the Contractor. If the Owner concurs in the Certificate of Completion, the Contractor will be notified of Acceptance and the date thereof.

After Acceptance, the Contractor is relieved of the duty of maintaining and protecting the Work as a whole, and is not required to perform any further Work thereon. In addition, the Contractor is relieved of its responsibility for damage to the Work that may occur after Acceptance. However, nothing herein shall be construed to limit the provisions of 01360.12 (Risks Assumed by the Contractor), 00620 (Insurance), 01360.15 (No Waiver of Legal Rights), and 01290.10 Warranty Against Defective Work).

01451 *Quality Control - Materials*

01451.1 Source of Supply and Quality Requirements.

All Materials for the Project shall be furnished by the Contractor and shall be new, unless otherwise specifically prescribed in the Contract Documents. The Materials shall conform to the requirements of the Contract Documents and shall be from approved sources. Only Materials that have been approved by the Engineer shall be used.

Within 12 hours after receiving a shipment of Materials, the Engineer shall be notified of the kind, size, quantity, and location thereof.

In any item of construction, the sources, brands, or types of Materials shall not be changed without the consent of the Engineer. Request for such changes shall be filed with the Engineer the number of days in advance of such changes as required above. The request shall state the name and address of the owner, the location of the proposed source, the method of shipment, and the intended use of the Material.

The foregoing provisions shall apply with regard to requests by subcontractors for the sources of the Materials they propose to use, such requests to be submitted through the Contractor.

The notice provisions of this Subsection shall not be so construed as to relieve the Contractor of its obligation to ensure that all Materials required for the construction of the Project shall be available at the time and place necessary for their incorporation into the Work in order that the completion date set forth in Subsection 01310.10 is met. If any doubt exists as to the timely availability of any material, the Engineer

shall be immediately informed, in writing, of the potential problem and of the action to be taken to guarantee the availability of such material. Stockpiles of materials whose availability is or may be problematical shall be established at an early date.

01451.2 RESERVED

01451.3 Materials, Inspections, Tests, and Samples.

All Materials will be inspected, tested (where applicable), and approved before incorporation in the Work. Unapproved Materials may be used only with written permission of the Engineer. In the absence of such written permission, unapproved materials will not be paid for and shall be removed at no cost to the Owner.

All Materials being used are subject to inspection, testing, or rejection at any time before Acceptance.

Nothing in this Subsection shall be construed to limit the right of the Engineer to order special inspection or tests as provided in Section 01450.6.

Except as otherwise provided, all Materials will be tested at the expense of the Contractor.

Certain materials as specified will be accepted on the basis of Certifications of Compliance according to 01451.4.

Samples shall be required whenever, in the opinion of the Engineer, additional tests are required to determine the quality and suitability of Materials for their respective uses.

01451.4 Certification of Compliance.

Materials will be accepted on the basis of Certificates of Compliance stating that such materials fully comply with the requirements of the Contract. The Engineer must approve the form of Certificates of Compliance.

Materials used on the basis of Certificates of Compliance may be sampled and tested at any time. Materials, if found not to be in conformance with Contract requirements, will be rejected whether in place or not. The Contractor shall require the manufacturer or supplier to furnish two copies of Certificates of Compliance with each delivery of Materials and manufactured items that are acceptable by certification. One copy shall be furnished to the Engineer and one copy shall be retained by the Contractor.

Certificates of Compliance shall contain the following information:

1. Project to which the material is consigned.
2. Name of the Contractor to which the material is supplied.
3. Kind of material supplied.
4. Quantity of material represented by the certificate.
5. Means of identifying the consignment, such as label marking, seal number, etc.
6. Date and method of shipment.
7. Statement that the material has been tested and found in conformity with the pertinent Contract requirements stated in the certificate.
8. Signature of a person having legal authority to bind the supplier.
9. Signature attested to by a notary public or other properly authorized person.

Payments will not be made for Materials specified to be accepted on the basis of Certificates of Compliance until the Engineer has received the required Certificate of Compliance.

01451.5 Product requirements.

01451.5.1 PRODUCTS

Products: Means new material, machinery, components, equipment, fixtures, and systems forming the Work, but does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work. Products may also include existing materials or components specifically identified for reuse.

Do not use materials and equipment removed from existing premises, except as specifically identified or allowed by the Contract Documents.

Provide interchangeable components of the same manufacture for components being replaced.

01451.5.2 PRODUCT OPTIONS

Products Specified by Reference Standards or by Description Only: Any Product meeting those standards or description.

Products Specified by Naming One or More Manufacturers: Products of manufacturers named and meeting specifications, no options or substitutions allowed.

Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

01451.5.3 PRODUCT DELIVERY, STORAGE AND HANDLING REQUIREMENTS

Transport, handle, store, and protect Products in accordance with manufacturer's instructions.

01451.6 RESERVED.

01451.7 RESERVED.

01451.8 RESERVED.

01451.9 Storage and Handling of Materials.

Materials shall be stored to ensure the preservation of their quality and fitness. Stored Materials, even though approved before storage, may again be inspected before their use on the Project. Stored Materials shall be located so as to facilitate their prompt inspection. The Contractor shall be responsible for obtaining locations for storage of equipment and materials. Materials shall be handled to ensure the preservation of their quality and fitness.

01451.10 Unacceptable Materials.

All Materials, whether in place or not, which do not conform to the requirements of the Contract Documents shall be considered as unacceptable, and such materials will be rejected and shall be removed immediately from the site of the Work unless otherwise directed. Rejected material, the defects of which have been corrected, shall not be used until approval has been given.

01451.11 RESERVED.

01451.12 Substitutes or “Or Equal” Items.

Whenever Materials or Equipment are specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular supplier, the naming of the item is intended to establish the type, function, and quality required. Unless the name is followed by words indicating that no substitution is permitted, materials or equipment of other suppliers may be accepted if sufficient information is submitted by the Contractor to allow the Engineer to determine that the material or equipment proposed is equivalent or equal to that named. Requests for review of substitute items of material or equipment will not be accepted from anyone other than the Contractor. If the Contractor wishes to furnish or use a substitute item of material or equipment, the Contractor shall make written application to the Engineer for approval thereof, certifying that the proposed substitute performs adequately the functions and achieves the results called for by the general design, is similar and of equal substance to that specified, and is suited to the same use as that specified. The application shall state that the evaluation and approval of the proposed substitute does not prejudice the Contractor's achievement of Completion on time. It shall also state whether or not approval of the proposed substitute for use in the Work requires a change in any of the Contract Documents (or in the provisions of any other direct Contract with the Owner for Work on the Project) to adapt the design to the proposed substitute, and whether or not incorporation or use of the substitute in connection with the Work is subject to payment of any license fee or royalty. All variations of the proposed substitute from that specified shall be identified in the application, and available maintenance, repair, and replacement service shall be indicated, as applicable. The application shall also contain an itemized estimate of all costs that result directly or indirectly from approval of such substitute, including costs of redesign, all of which will be considered in evaluating the proposed substitute. The Engineer may require the Contractor to furnish additional data about the proposed substitute.

If a specific means, method, technique, sequence, or procedure of construction is indicated in or required by the Contract Documents, the Contractor may furnish or use a substitute means, method, technique, sequence, or procedure of construction which is acceptable, if the Contractor submits sufficient information to allow the Engineer to determine that the substitute proposed is equivalent to that indicated or required by the Contract Documents. The procedure for review by the Engineer is to be similar to that described in the previous paragraph.

The Engineer is to be allowed a reasonable time within which to evaluate each proposed substitute. The Engineer will be the sole judge of acceptability, and no substitute shall be ordered, installed, or used without an approved cut sheet from the manufacturer. If approval is given, it is on the condition that the Contractor is fully responsible for producing Work in conformity with Contract requirements.

The Contract Sum shall be reduced by Change Order to compensate the Owner for the Cost of the Engineer and his consultants review the merits of the proposed substitution as well as for time to redesign the lighting, power distribution, mounting, and control systems, if required, to accommodate it. The substitution request should also include the cost of any new or extra power or control equipment, or any change in the mounting hardware or any custom-built mounting brackets required to accommodate the proposed substitute.

If, after trial use of the substituted materials, equipment, means, method, technique, sequence, or procedure of construction, the Engineer determines that the Work produced does not meet Contract requirements, the Contractor shall discontinue the use of the substitute and shall complete the remaining Work with the specified materials, equipment, means, method, technique, sequence, or procedure of construction. The Contractor shall remove the deficient Work and replace it as specified, or take such other corrective action as the Engineer may direct. Changes will not be made in the basis of payment for the Pay Items involved, nor in the Contract Time as a result of authorized substitutes. The Engineer may require the Contractor to furnish at no cost to the Owner a special performance guarantee or other surety with respect to any substitute. When the Contract Documents permit the use of more than one type of material, equipment, or product, only one type is to be used throughout the Project.

01500 TEMPORARY FACILITIES AND CONTROLS

01510 Temporary Utilities

The Contractor shall be solely responsible for the installation, removal and approvals for any temporary utility that the Contractor should require for Project related activities, including but not limited to electric powered generators or pumps (any phase type) and lighting. The costs for purchasing, installing, protecting and obtaining approvals are not to be charged to the Owner and shall be included in the Total Contract Price.

01520 Construction Facilities

Temporary Sanitary facilities: Provide and maintain chemical type toilet facilities and enclosures. Do not use Owner's existing facilities. Maintain in clean and sanitary condition.

01550 Vehicular Access and Parking

During the course of the Project, the Contractor shall ensure that all employees' and subcontractors' automobiles are parked in a manner that does not interfere with local traffic, block pedestrian traffic or cause an unsafe situation.

The following provisions augment the requirements of this Subsection: Subsections 01140 (Work Restrictions), 01360 (Additional Legal Provisions), 01450.8 (Cooperation by the Contractor), and 01450.10 (Cooperation between Contractors).

01560 Temporary Security

If the Contractor requires security from theft or vandalism or to protect the public, such security measures shall be at the Contractors expense. The Contractor acknowledges and agrees that the Owner is not responsible for the damage or theft of any equipment, or injury to the public as a result of the breach or lack of security measures implemented by the Contractor.

01560 Barriers

The Contractor shall provide barriers to prevent unauthorized entry to construction areas to allow for residents and retail owners and patrons use of the site and to protect existing facilities and adjacent properties from damage from construction operations and demolition. The Contractor will provide barricades and covered walkways required by governing authorities for public rights-of-way.

01600 EXECUTION AND CLOSEOUT REQUIREMENTS

01600.1 EXAMINATION

Verify that existing site conditions and substrate surfaces are acceptable for subsequent Work. Beginning new Work means acceptance of existing conditions.

Verify that services are available, of the correct characteristics and in the correct location.

01600.2 PREPARATION

Clean substrate surfaces prior to applying next material or substance.

Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying new material or substance in contact or bond.

01600.3 FIELD ENGINEERING

Employ an experienced instrument technician to locate a reference datum and protect survey control and reference points.

Establish elevations, lines, and levels and certify that elevations and locations of the Work conform to the Contract Documents.

Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

01600.4 EXECUTION - CUTTING AND PATCHING

Employ a skilled and experienced installer to perform cutting and patching new Work; restore Work with new Products.

Submit written request in advance of cutting or altering structural or building enclosure elements.

Execute cutting, fitting, and patching including excavation and fill, to complete Work, and to: Fit the several parts together, to integrate with other Work.

Uncover Work to install or correct ill-timed Work.

Remove and replace defective and nonconforming Work.

Remove samples of installed Work for testing.

Provide openings in elements of Work for penetrations of mechanical and electrical Work.

Cut masonry and concrete materials using masonry saw or core drill. Restore Work with new Products in accordance with requirements of Contract Documents.

Fit Work tight to adjacent elements. Maintain integrity of wall, ceiling, or floor construction; completely seal voids.

Fit Work tight to pipes, sleeves, ducts, conduit, and other surface penetrations.

Refinish surfaces to match adjacent finishes.

01600.5 CLEANING AND WASTE MANAGEMENT

01600.5.1 PROGRESS CLEANING AND WASTE REMOVAL

Maintain site in a clean and orderly condition. Dispose of all waste in accordance with all governing Federal, State, and Local regulations.

Collect and maintain areas free of waste materials, debris, and rubbish on a daily basis.

01600.5.2 FINAL CLEANING

Execute final cleaning prior to final inspection.

Clean interior and exterior surfaces exposed to view. Vacuum carpeted and soft surfaces.

Clean debris from site, roofs, gutters, downspouts, and drainage systems.

Replace filters of operating equipment.

Remove waste and surplus materials, rubbish, and construction facilities from the site.

01600.6 STARTING AND ADJUSTING

01600.6.1 STARTING SYSTEMS

Provide seven days notification prior to startup of each item.

Ensure that each piece of equipment or system is ready for operation.

Execute start up under supervision of responsible persons in accordance with manufacturers' instructions.

Submit a written report that equipment or system has been properly installed and is functioning correctly.

01600.6.2 ADJUSTING

Adjust operating Products and equipment to ensure smooth and unhindered operation.

01600.7 PROTECTING INSTALLED CONSTRUCTION

01600.7.1 PROTECTION OF INSTALLED WORK

Protect installed Work and provide special protection where specified in individual specification sections.

Prohibit traffic or storage upon waterproofed or roofed surfaces.

01600.8 CLOSEOUT SUBMITTALS

01600.8.1 PROJECT RECORD DOCUMENTS

Maintain on site one set of Contract Documents to be utilized for record documents.

Record actual revisions to the Work. Record information concurrent with construction progress.

Specifications: Legibly mark and record at each Product section a description of actual Products installed.

Record Documents and Shop Drawings: Legibly mark each item to record actual construction.

Submit documents to Engineer/Engineer with final Application for Payment.

01600.9 OPERATION AND MAINTENANCE DATA

Submit two sets prior to final inspection, bound in 8-1/2 x 11 inch text pages, three D side ring binders with durable covers.

Cover: Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS" and title of project.

Organization: Internally subdivide binder contents with permanent page dividers, logically organized, with tab titles clearly printed under reinforced laminated plastic tabs.

Contents:

Part 1: Directory, List names, addresses, and telephone numbers of Engineer/Engineer, Contractor, Subcontractors, and major equipment suppliers.

Part 2: Operation and maintenance instructions, arranged by system.

Part 3: Project documents and certificates.

01600.10 SPARE PARTS AND MAINTENANCE MATERIALS

Provide Products, spare parts, maintenance and extra materials in quantities specified in individual specification sections.

Deliver to Project site and place in location as directed; obtain receipt prior to final payment.

01600.11 WARRANTIES

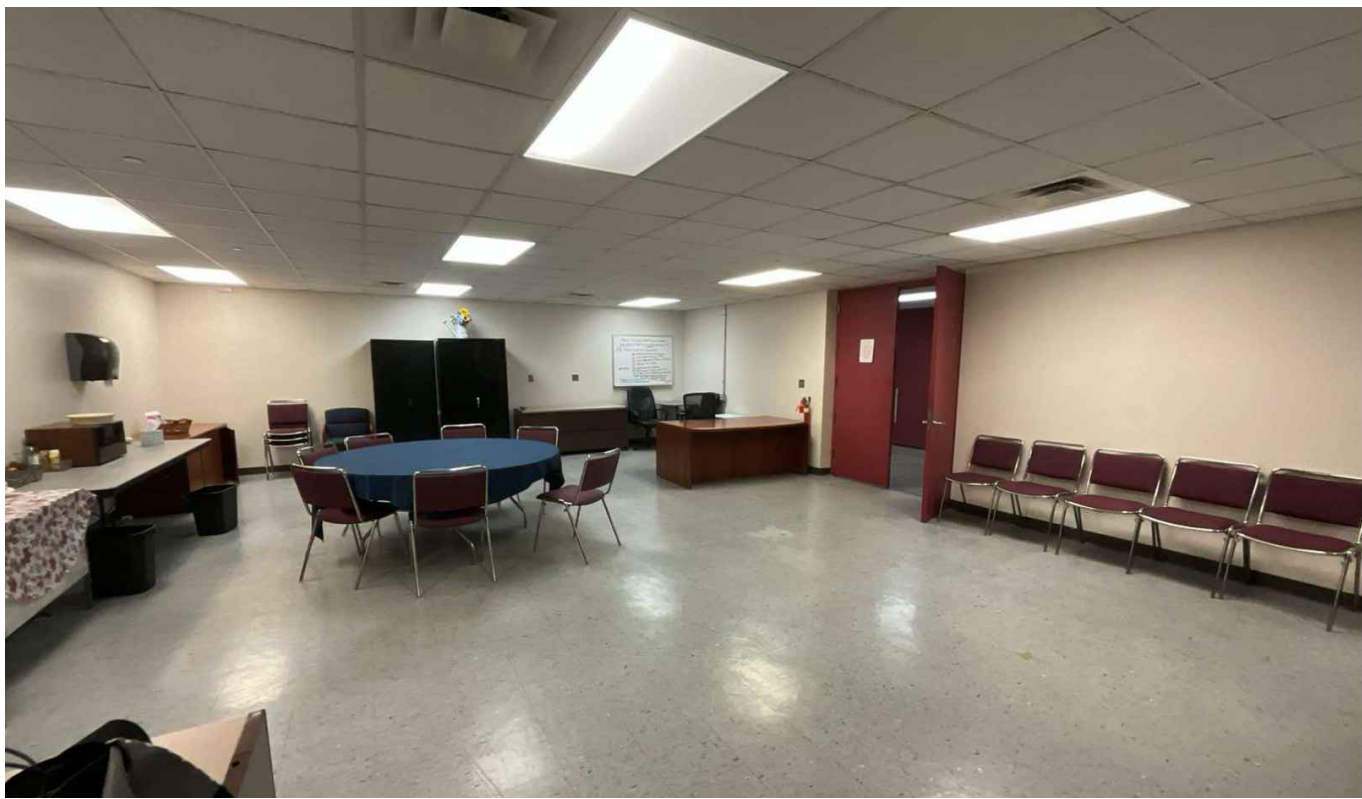
Provide duplicate notarized copies.

Execute and assemble transferable warranty documents from Subcontractors, suppliers, and manufacturers. Place in operations and maintenance binder (see I. Above).

Submit prior to final Application for Payment.

ATLANTIC CITY CONVENTION CENTER TRADE SHOP

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401
LEVEL 1



PROJECT DIRECTORY

OWNER: OAK VIEW GROUP
5050 S SYRACUSE STREET, SUITE 800,
GREENWOOD VILLAGE, COLORADO
80237
CONTACT: CLARK HUGHES



ARCHITECT: NETTA ARCHITECTS
1084 ROUTE 22 WEST
MOUNTAINSIDE, NJ 07092
TEL.: 973-379-0006



MEP ENGINEER: BOWMAN ENGINEERING
457 OAKSHADE RD
SHAMONG, NJ 08088
TEL.: 609.268.0500



SITE MAP



PROJECT SITE LOCATION



PROJECT DRAWING LIST

		06.17.2026 ISSUED FOR BID					
ISSUE/REVISION HISTORY:							
GENERAL							
T-000	COVER SHEET	●					
A-001	GENERAL NOTES, ABBREVIATIONS, SYMBOLS	●					
A-002	BARRIER FREE DETAILS AT EXISTING BUILDINGS	●					
A-003	EGRESS PLAN	●					
ARCHITECTURAL							
A-101	DEMO/CONSTRUCTION FLOOR PLAN & NOTES	●					
A-401	ENLARGED BATHROOM/MILLWORK PLANS/ELEVATIONS	●					
MECHANICAL							
M-000	MECHANICAL COVERSHEET	●					
M-100	MECHANICAL FIRST FLOOR PLAN DEMOLITION	●					
M-200	MECHANICAL FIRST FLOOR PLAN NEW WORK	●					
M-300	MECHANICAL SCHEDULES	●					
M-400	MECHANICAL DETAILS	●					
PLUMBING							
P-000	PLUMBING COVERSHEET	●					
P-100	PLUMBING FIRST FLOOR PLAN DEMOLITION	●					
P-200	PLUMBING FIRST FLOOR PLAN NEW WORK	●					
P-300	PLUMBING SCHEDULES AND RISER DIAGRAMS	●					
P-400	PLUMBING DETAILS	●					
P-500	PLUMBING SPECIFICATIONS	●					
FIRE PROTECTION							
FP-000	FIRE PROTECTION COVERSHEET	●					
FP-100	FIRE PROTECTION FIRST FLOOR PLAN NEW WORK	●					
FP-200	FIRE PROTECTION DETAILS	●					
ELECTRICAL							
E-000	ELECTRICAL COVERSHEET	●					
E-100	ELECTRICAL FIRST FLOOR PLAN DEMOLITION	●					
E-200	ELECTRICAL FIRST FLOOR PLAN NEW WORK	●					
E-300	ELECTRICAL DIAGRAMS, DETAILS & SCHEDULES	●					
E-400	ELECTRICAL SPECIFICATIONS	●					
E-401	ELECTRICAL SPECIFICATIONS	●					
E-402	ELECTRICAL SPECIFICATIONS	●					

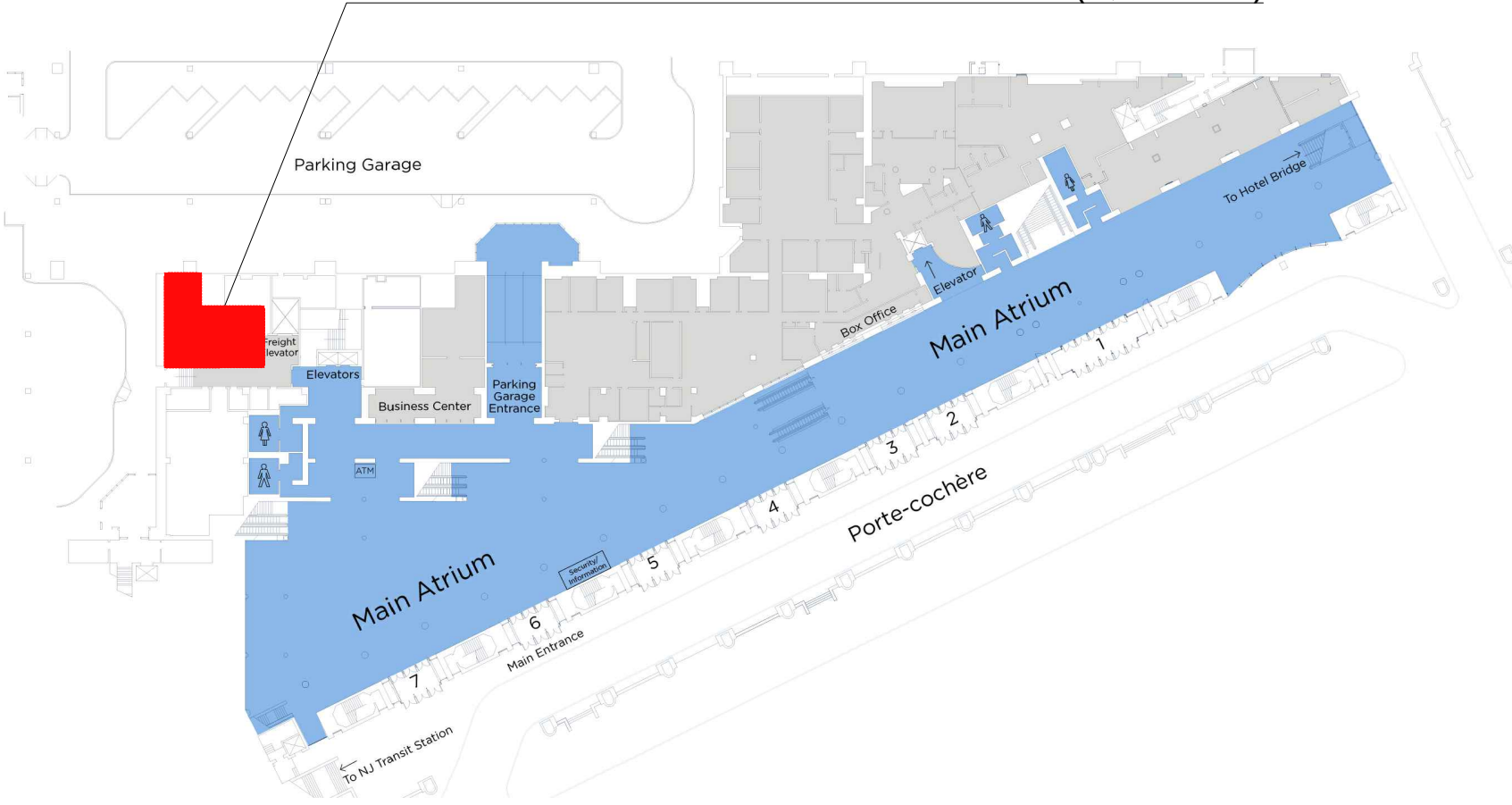
ZONING INFORMATION		
ZONING:	CRBD CENTRAL RETAIL BUSINESS DISTRICT ZONE (NO CHANGE)	
GENERAL BUILDING INFORMATION		
GENERAL BUILDING INFO:	1,082 SQUARE FOOT SPACE	
APPLICABLE BUILDING CODES		
BUILDING SUBCODE	NEW JERSEY REHABILITATION SUBCODE, (NJ EDITION: NJAC 5:23-6)	
PLUMBING	NATIONAL STANDARD PLUMBING CODE 2021	
ELECTRICAL	NATIONAL ELECTRICAL CODE (NFPA 70) 2020	
FUEL GAS SUBCODE	INTERNATIONAL FUEL GAS CODE 2021	
BARRIER FREE SUBCODE	ICC/ANSI A117.1 2017	
MECHANICAL SUBCODE	INTERNATIONAL MECHANICAL CODE 2021	
ENERGY SUBCODE	INTERNATIONAL ENERGY CONSERVATION CODE 2021	
USE, OCCUPANCY AND CONSTRUCTION CLASSIFICATION		
	CRITERION/ DESIGNATION	IBC REFERENCE
USE & OCCUPANCY CLASSIFICATIONS	BUSINESS GROUP: B OCCUPANCY (NO CHANGE)	SECTION 304.1
TYPES OF CONSTRUCTION	CONSTRUCTION TYPE: II-B (NO CHANGE)	SECTION 304.1
OCCUPANT LOAD (CHAPTER 3)		
USE GROUP	ACTUAL AREA	ALLOWABLE
B - BUSINESS GROUP	1,082 SQ FT	1 PER 150 SQ FT
		8 (NO CHANGE)
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT		
THE OCCUPANT LOAD OF EACH SPACE CAN BE FOUND ON THE EGRESS PLANS WHICH WERE CALCULATED BASED ON THE TABLE OF THIS SECTION. - SEE EGRESS PLAN A-003		IBC REFERENCE TABLE 1004.5
MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY (IBC REF. TABLE 1006.3.2)		
OCCUPANT LOAD PER STORY	MIN. NUMBER OF EXITS	EXIT PROVIDED
1 - 500	2	2 (NO CHANGE)

PER 2021 NSPC SECTION 7.21.2b

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES - NSPC TABLE 7.21.1							
USE GROUP	NO. OF PERSON PER EA. SEX	WATER CLOSET/URINALS		LAVATORIES		DRINKING WATER FACILITIES	OTHER
		MALE	FEMALE	MALE	FEMALE		
B	1 PER 15	1	1	1	1	1 PER 100 PEOPLE	1 SERVICE SINK PER FLOOR
REQUIRED		1	1	1	1	1	1
PROVIDED		1	1	1	1	0 *	1
* WATER DISPENSER PROVIDED IN CAFE/LOUNGE AREA							
BARRIER FREE REQUIREMENTS: 1 HANDICAPPED / AMBULATORY STALL REQUIRED FOR EVERY 6 STALLS & URINALS = 1 BARRIER FREE TOILETS REQUIRED - 1 PROVIDED							

KEY MAP

WORK AREA LOCATION (1,082 SF)



PROJECT DESCRIPTION:

ALTERATION OF THE EXISTING TRADE SHOP AREA WITHIN THE EXISTING BUILDING (WORK AREA: 1,082 SF). WORK INCLUDES SELECTIVE DEMOLITION, MODIFICATIONS TO WALL PARTITION, AND DOOR OPENING, INSTALLATION OF NEW FINISHES, FIXTURES, AND EQUIPMENT AS REQUIRED, AND ASSOCIATED ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WORK. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING BUILDING FOOTPRINT

GENERAL NOTES	
1.	ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE IN STRICT CONFORMANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE NEW JERSEY STATE UNIFORM CONSTRUCTION CODE AND INTERNATIONAL BUILDING CODE OF NEW JERSEY AND ALL ITS SUB CODES, OSHA AND ADA REQUIREMENTS AND ANY OTHER LOCAL, REGIONAL OR FEDERAL REGULATIONS.
2.	THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY EXISTING CONDITIONS AND REVIEW THESE CONDITIONS WITH THE PLANS BEFORE, DURING AND AFTER CONSTRUCTION, AND ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING IMMEDIATELY.
3.	ALL WALL THICKNESS ARE NOMINAL DIMENSIONS ONLY ROUNDED TO THE NEAREST WHOLE INCH. REFER TO WALL SECTIONS AND DETAILS FOR THEIR ACTUAL THICKNESS.
4.	ALL DIMENSIONS ARE FROM THE FACE OF MASONRY, FACE OF GYPSUM BOARD BOARD OR FROM THE COLUMN CENTER LINES UNLESS OTHERWISE NOTED.
5.	EXCEPT WHERE OTHERWISE INDICATED, ALL WALLS AND PARTITIONS ARE DIMENSIONED TO THEIR "NOMINAL" SIZES. WHERE DIMENSIONS ARE NOTED AS "MIN.", PROVIDE MIN. CLEAR TO FINISH SURFACES.
6.	BEFORE COMMENCING WORK, THE CONTRACTOR SHALL PROPERLY INDENTIFY AND MARK-UP ALL EXISTING UTILITIES.
7.	DO NOT SCALE DRAWINGS.
8.	MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER EXECUTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.
9.	REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LEGENDS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS.
10.	WHERE PIPING IS TO BE CONCEALED, THE HUNG OR FURRED CEILING IN THESE AREAS ARE NOT TO BE INSTALLED UNTIL THOSE PIPES HAVE BEEN PROPERLY TESTED.
11.	INTERIOR PARTITIONS SHALL NOT BE BUILT TO FULL HEIGHT UNLESS ALL DUCTS, PIPES, ETC. ARE IN PLACE.
12.	ALL SPACES WITH FLOOR DRAINS (INCLUDING AREAWAYS) SHALL HAVE THEIR FLOORS PITCHED TO THOSE FLOOR DRAINS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
13.	ALL ITEMS RECESSED INTO RATED PARTITIONS (SUCH AS OUTLET BOXES, PANEL BOXES, ETC) SHALL HAVE THOSE OPENINGS PROTECTED WITH BACK-UP MATERIALS SO AS TO RETAIN THE INTEGRITY OF THE PARTITION RATING THROUGHOUT.
14.	EXCEPT AS OTHERWISE INDICATED, DOOR SADDLES OR DIVIDING STRIPS ARE REQUIRED AT INTERIOR DOOR OPENINGS WHERE DIFFERENT TYPES OF FLOOR FINISHES OCCUR IN IMMEDIATELY ADJOINING ROOMS. POSITION ON LINE OF CENTER DOOR WHEN DOOR IS CLOSED.
15.	THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINTELS, STRUTS, BRACKETS, HANGERS, ETC. WHEREVER NECESSARY TO SUPPORT AND/OR BRACE ALL FINISHES, EQUIPMENT RECESSES, HEADS OVER OPENINGS, FURNITURE, ETC.
16.	THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES AND ELECTRICAL CONDUITS PRIOR TO STARTING THE WORK. SHOULD ANY CONDUITS BE ENCOUNTERED WHICH WERE NOT KNOWN TO EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING.
17.	SWEEPING, BRUSHING, AND OTHER GENERAL CLEANING OF COMPLETED WORK AND THE REMOVAL OF DEBRIS, SURPLUS MATERIALS, TOOLS NOT IN ACTIVE USE, SCAFFOLDING AND OTHER EQUIPMENT NO LONGER NEEDED SHALL BE CARRIED OUT ON AN ONGOING BASIS. IN ADDITION, REMOVE STAINS, SPOTS, MARKS, AND DIRT FROM FINISH WORK. THE JOB IS TO BE MAINTAINED FREE OF RUBBISH. DISPOSE OF ALL RUBBISH IN ACCORDANCE WITH LOCAL ORDINANCES.
18.	ALL HEIGHTS INDICATED ON REFLECTED CEILING PLANS ARE FROM TOP OF FINISHED FLOOR TO BOTTOM OF CEILING / FIXTURE SPECIFIED, U.O.N..
19.	THE CONTRACTOR SHALL FURNISH & INSTALL ALL CLIPS, ANGLES AND MISC. STEEL TO SECURE FRAMING TO STRUCTURE
20.	HINGE SIDE OF DOOR TO BE 4" FROM ADJACENT WALL OR AS OTHERWISE MENTIONED.
21.	ALL EXPOSED INTERIOR/EXTERIOR METAL ITEMS TO BE PRIMED AND PAINTED (INCLUDING GALVANIZED METALS) UNLESS OTHERWISE NOTED.
22.	ALL EXPOSED GWB TO BE SPACKLED, PRIMED, AND PAINTED UNLESS OTHERWISE NOTED.
23.	ALL TRADE SUB-SUBCONTRACTORS SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING THEMSELVES WITH ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID.
24.	ALL TRADE SUB-CONTRACTORS SHALL COORDINATE STAGING AREAS WITH THE OWNER PRIOR TO STARTING WORK.
25.	EACH TRADE SUB-CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THEIR WORK UNDER THIS CONTRACT WITH OTHER TRADE SUB-CONTRACTORS INVOLVED IN THIS PROJECT TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK.
26.	THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS THAT ARE REQUIRED.
27.	THE CONTRACTOR SHALL PROPERLY PROTECT AND MAKE SAFE ADJACENT PROPERTY AS JOB CONDITIONS REQUIRED.
28.	ALL PRECAUTIONS ARE TO BE TAKEN TO PREVENT DIRT, WATER AND DUST FROM ENTERING CONSTRUCTED PARTS OF THE BUILDING DURING THE PROGRESS OF THE WORK.
29.	THE CONTRACTOR SHALL MAINTAIN FREE AND UNOBSTRUCTED ACCESS FROM WORK AREA AND ADJACENT SPACES TO THE OUTSIDE OF THE BUILDING AT ALL TIMES.
30.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS, AND OFF ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
31.	THE WORDS "PROVIDE" OR "PROVIDE NEW" MEANS TO FURNISH AND INSTALL NEW ITEM(S) AND/OR SYSTEM(S) INDICATED.
32.	ALL PLUMBING, ELECTRICAL AND OTHER TRADE CONTRACT WORK REQUIRING THE USE OF LICENSED PERSONNEL SHALL BE PERFORMED BY LICENSED CONTRACTORS.
33.	ALL INTERIOR WOOD BLOCKING SHALL BE CONSTRUCTED WITH FIRE RETARDANT AND PRESERVATIVE TREATED WOOD, UNLESS OTHERWISE NOTED.
34.	THE CONTRACTOR SHALL PROVIDE SLEEVES AND FIRE SEALANT AROUND ALL NEW THROUGH WALL PENETRATIONS IN FIRE RATED WALLS. SEE MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING DRAWINGS. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS WITH UL APPROVED FIRE RATED SYSTEMS.

ABBREVIATIONS			
ALUM.	ALUMINUM	MULL.	MULLION
A.F.F.	ABOVE FINISH FLOOR		
ALT.	ALTERNATE	N	NORTH
APPROX.	APPROXIMATE	NAT.	NATURAL
ARCH.	ARCHITECT	N.I.C.	NOT IN CONTRACT
ARCH'L.	ARCHITECTURAL	NO.	NUMBER
		N.T.S.	NOT TO SCALE
BD.	BOARD	O.A.	OVERALL
BLDG.	BUILDING	O.A.I.	OUTSIDE AIR INTAKE
BOT.	BOTTOM	O.C.	ON CENTER
B.O.	BOTTOM OF	OPNG.	OPENING
		OPP.	OPPOSITE
C.J.	CONTROL JOINT	ORIG.	ORIGINAL
CLG.	CEILING	O.H.	OVERHEAD
CU	CONDENSING UNIT	O.D.	OVERFLOW DRAIN
CLO.	CLOSET		
C.T.	CERAMIC TILE	PART.	PARTITION
COL.	COLUMN	PASS.	PASSENGER
C.M.U.	CONCRETE MASONRY UNIT	PLAS.	PLASTIC
CONC.	CONCRETE	PL. LAM.	PLASTIC LAMINATE
CONST.	CONSTRUCTION	PL.	PLATE
CONT.	CONTINUOUS	PLYWD.	PLYWOOD
		PANL.	PANEL
DET.	DETAIL	PR.	PAIR
DIA.	DIAMETER	PTD.	PAINTED
DIM.	DIMENSION	P.V.C.	POLYVINYL CHLORIDE
DN.	DOWN	P.S.I.	POUNDS PER SQUARE INCH
DR.	DOOR	P.S.F.	POUNDS PER SQUARE FOOT
DWG.	DRAWING		
EA.	EACH	R.	RISER
ELEC.	ELECTRIC	RAD.	RADIUS
ELECT'L.	ELECTRICAL	RB	RUBBER BASE
ENCL.	ENCLOSURE	RCP	REFLECTED CEILING PLAN
EL.	ELEVATION	R.D.	ROOF DRAIN
ELEV.	ELEVATOR	RE.	REFERENCE
EQUIP.	EQUIPMENT	REF.	REFRIGERATOR
EQ.	EQUAL	REFL.	REFLECTED
E.W.C.	ELECTRIC WATER COOLER	REQ'D.	REQUIRED
EXIST.	EXISTING	REINF.	REINFORCING
E.T.R.	EXISTING TO REMAIN	REV.	REVISION
EXP.	EXPANSION	R.H.	RIGHT HAND
EXT.	EXTERIOR	RM.	ROOM
E.J.	EXPANSION JOINT	R.O.	ROUGH OPENING
E.O.S.	EDGE OF SLAB	R.O.D.	ROOF OVERFLOW DRAIN
E.M.R.	ELEVATOR MACHINE ROOM		
		SECT.	SECTION
F.D.	FLOOR DRAIN	SHO.	SHOWER
F.E.	FREIGHT ELEVATOR	SIM.	SIMILAR
FDN.	FOUNDATION	SK	SKETCH
FIN.	FINISH	SPECS.	SPECIFICATIONS
FL.	FLOOR	SQ.	SQUARE
FLUOR.	FLUORESCENT	S/STL.	STAINLESS STEEL
FT.	FOOT / FEET	STL.	STEEL
FTG.	FOOTING	STD.	STANDARD
F.R.T.	FIRE RETARDANT TREATED	STRUCT.	STRUCTURE
		STRUCT'L.	STRUCTURAL
GA.	GAUGE	SUSP.	SUSPENDED
GALV.	GALVANIZED		
GL.	GLASS	T.O.	TOP OF
GWB.	GYPSUM WALL BOARD	TEL.	TELEPHONE
GYP. BD.	GYPSUM BOARD	TERR.	TERRAZZO
		TRANS.	TRANSFORMER
H.C.	HANDICAPPED	TYP.	TYPICAL
HDWR.	HARDWARE	TBD.	TO BE DETERMINED
HDWD.	HARDWOOD		
H.M.	HOLLOW METAL	U.L.	UNDERWRITER'S LABORATORY
H.P.	HIGH POINT	UNFIN.	UNFINISHED
HT.	HEIGHT	U.O.N.	UNLESS OTHERWISE NOTED
H.V.A.C.	HEATING, VENTILATION, & AIR CONDITIONING	UTIL.	UTILITY
HORIZ.	HORIZONTAL		
HR.	HOOR	V.B.	VINYL BASE
		V.C.T.	VINYL COMPOSITION TILE
I.D.	INSIDE DIAMETER	VERT.	VERTICAL
IN.	INCH / INCHES	VEST.	VESTIBULE
INCL.	INCLUDING	V.I.F.	VERIFY IN FIELD
INFO.	INFORMATION	VOL.	VOLUME
INSUL.	INSULATION	VTR.	VENT THRU ROOF
INV.	INVERT		
		W/	WITH
JT.	JOINT	W.C.	WATER CLOSET
		WDW.	WINDOW
LAM.	LAMINATE	W.F.	WIDE FLANGE
LAV.	LAVATORY	W.O.	WINDOW OPENING
L.G.	LONG	W.P.	WORKING POINT
L.P.	LOW POINT	W.W.F.	WELDED WIRE FABRIC
L.T.	LIGHT		
L.T. WT.	LIGHT WEIGHT		
MACH.	MACHINE		
M.H.	MANHOLE		
MAT'L.	MATERIAL		
MAX.	MAXIMUM		
MECH.	MECHANICAL		
MEMB.	MEMBRANE		
MIN.	MINIMUM		
MIR.	MIRROR		
MISC.	MISCELLANEOUS		
M.O.	MASONRY OPENING		
MLDG.	MOLDING		
M.O.H.	MIRROR OPPOSITE HAND		
MTD.	MOUNTED		
MTL.	METAL		
MFD.	METAL FLOOR DECK		
MDF.	MEDIUM DENSITY FIBERBOARD		
MRD.	METAL ROOF DECK		

SYMBOLS	
	PARTITION TYPE
	WINDOW TYPE
	KEYNOTES
	DEMOLITION KEYNOTES
	REVISION TAG
	DOOR NUMBER
	ELEVATION POINTER / WORK POINT
Drawing Title	→ 1 PLAN
Drawing No.	→ A-100 SCALE
Sheet No.	
Drawing Scale	
Drawing Title	→ 1 ELEVATION
Drawing No.	→ A-200 SCALE
Sheet No.	
Drawing Scale	
Drawing Title	→ 1 SECTION
Drawing No.	→ A-200 SCALE
Sheet No.	
Drawing Scale	
Drawing Title	→ 1 DETAIL
Drawing No.	→ A-200 SCALE
Sheet No.	
Drawing Scale	
	BUILDING SECTION
	WALL SECTION
	PLAN DETAIL OR SECTION DETAIL

MATERIALS LEGEND	
	CONCRETE
	BRICK OR FACEBLOCK
	LIMESTONE/GRANITE
	CMU
	STEEL
	PLYWOOD
	WOOD STUD / WOOD BLOCKING
	RIGID INSULATION
	SHIM
	CARPET
	GYPSUM BOARD
	BATT INSULATION



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These drawings shall be used for the specific project location indicated within the Title Block, and shall not be used at any other location without prior consent from the ARCHITECT.

SHEET CONTENTS:

GENERAL NOTES, ABBREVIATIONS, SYMBOLS

PROJECT TITLE:

ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT
1 CONVENTION BLVD. ATLANTIC CITY, NJ 08401

SUBMISSION:

06.17.2026	ISSUED FOR BID

DATE	REVISIONS	REV

Date	03.16.26
Scale	AS NOTED
Drawn by	MS
Checked by	LU
Job No.	225064

Drawing No.

A-001

FIG. 304.3 SIZE OF TURNING SPACE

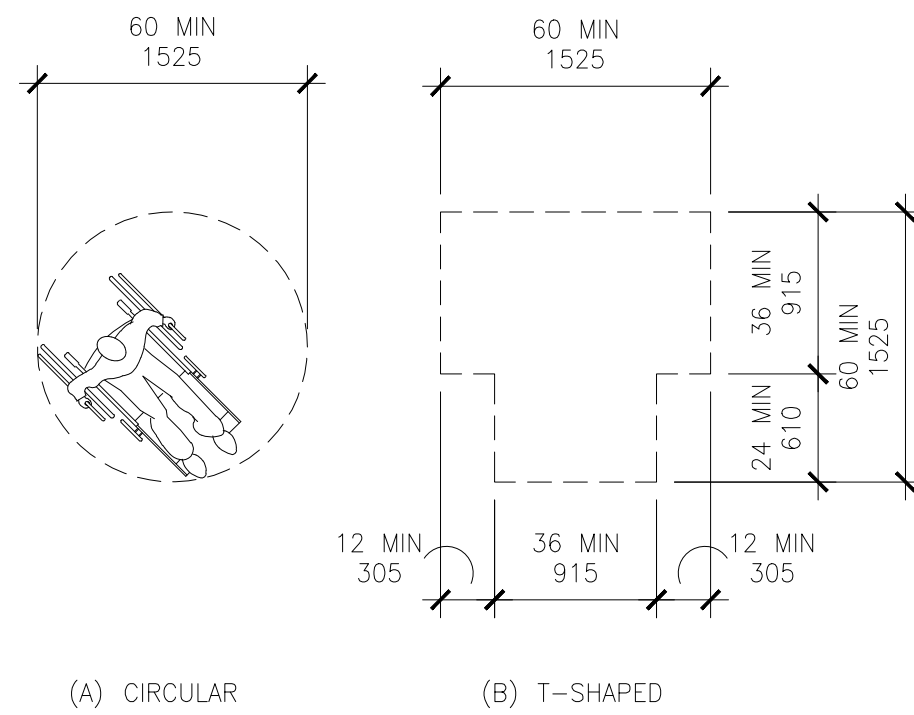


FIG. 305 SIZE & POSITION OF CLEAR FLOOR SPACE

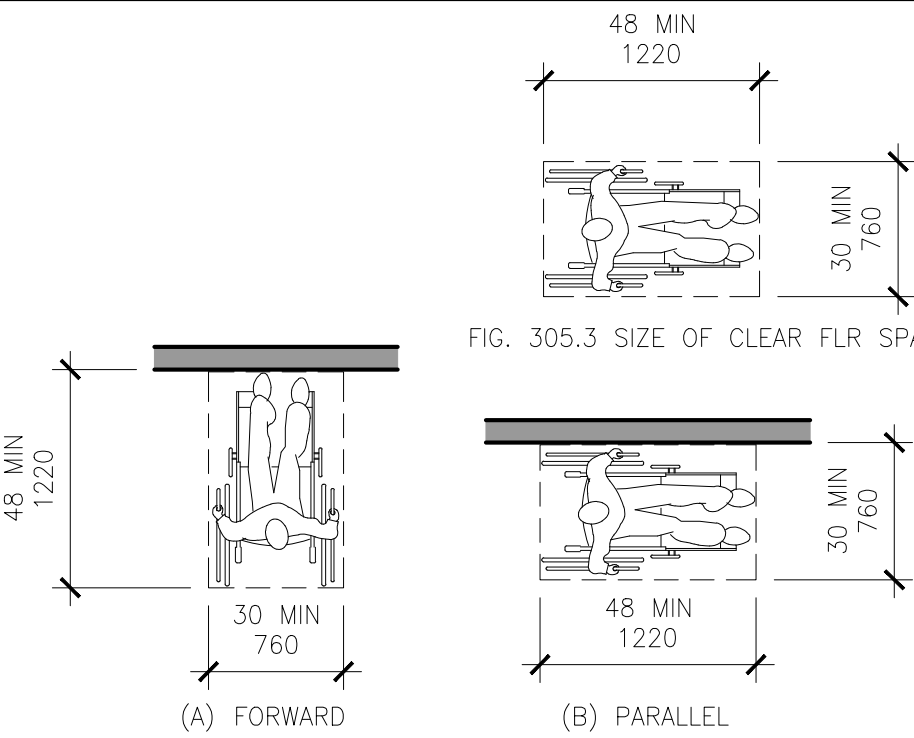


FIG. 305.5 POS. OF CLEAR FLR SPACE

FIG. 305.7 MANEUVERING CLEARANCE IN AN ALCOVE

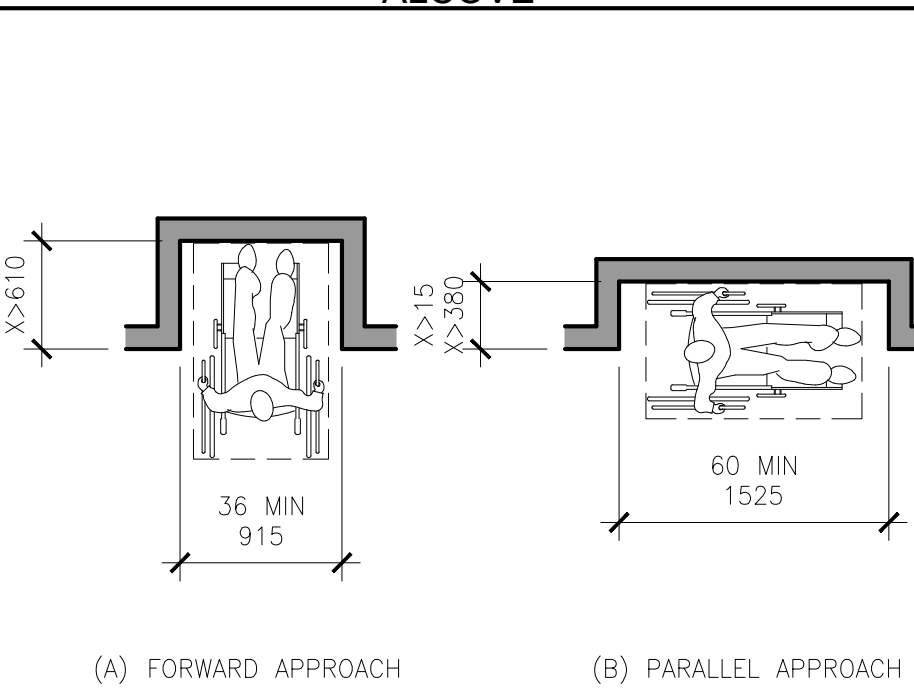
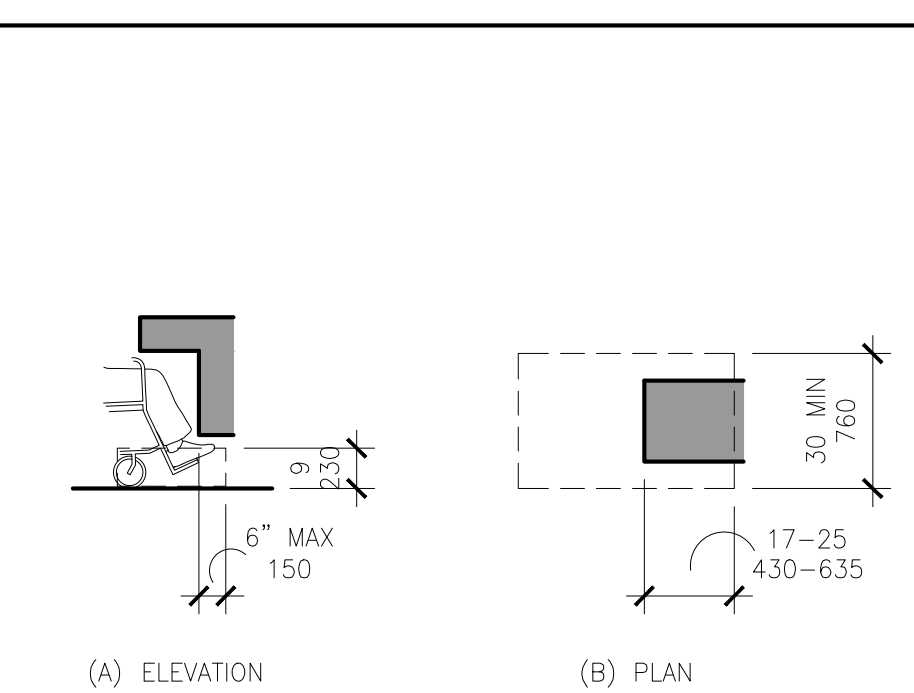


FIG. 306.2 TOE CLEARANCE



306.3 KNEE CLEARANCE

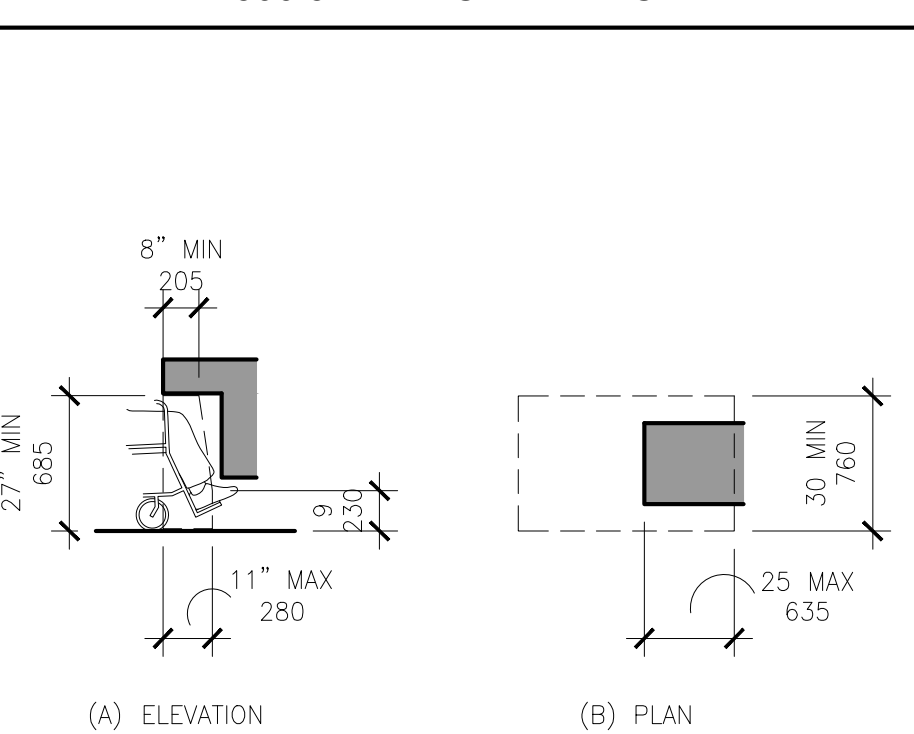


FIG. 307.2 LIMITS OF PROTRUDING OBJECTS

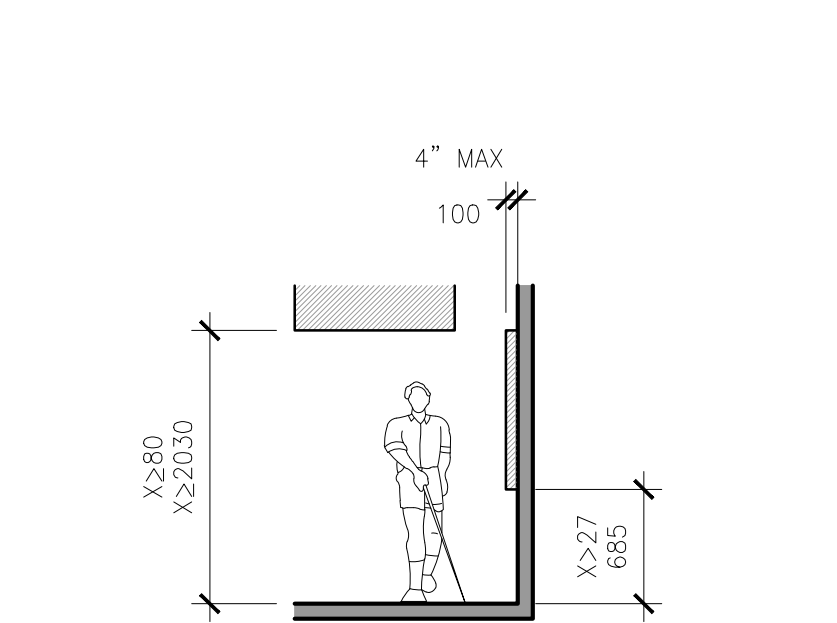


FIG. 308.2.1 UNOBSTRUCTED FORWARD REACH

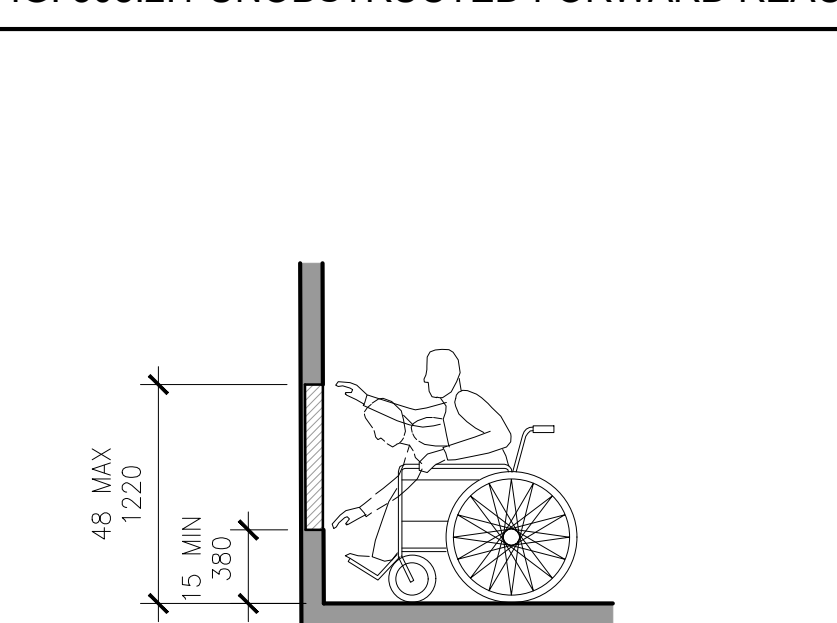


FIG. 308.2.2 OBSTRUCTED HIGH FORWARD REACH

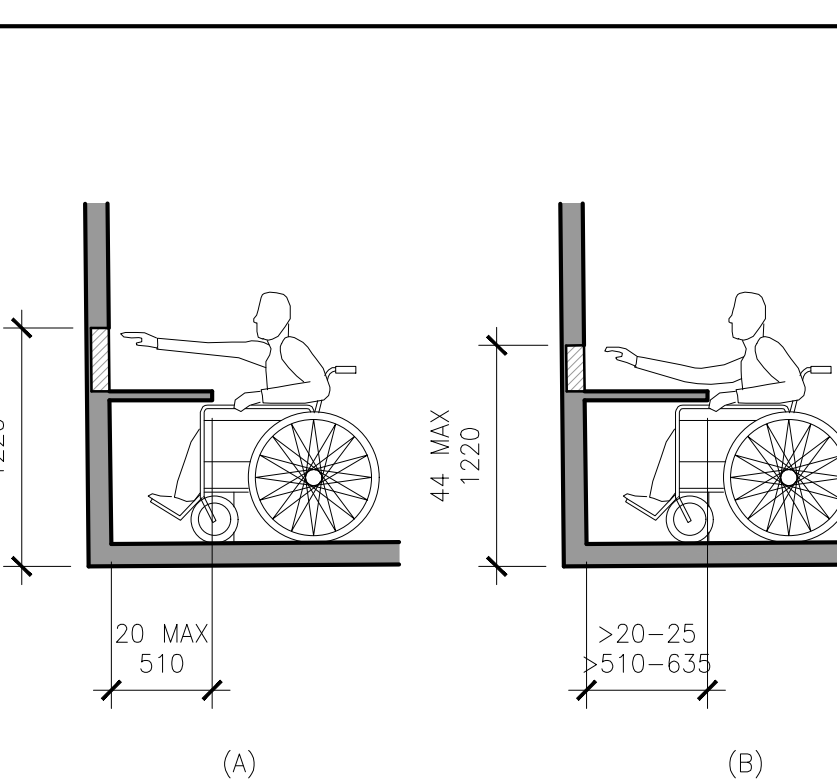


FIG. 308.2.1 UNOBSTRUCTED FORWARD REACH

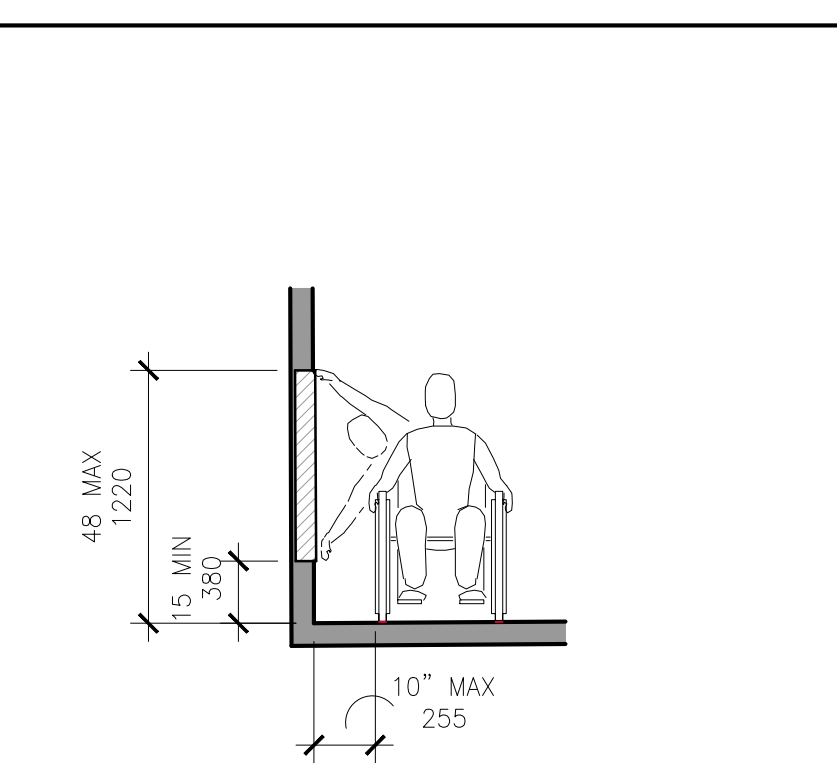


FIG. 308.3.2 OBSTRUCTED HIGH SIDE REACH

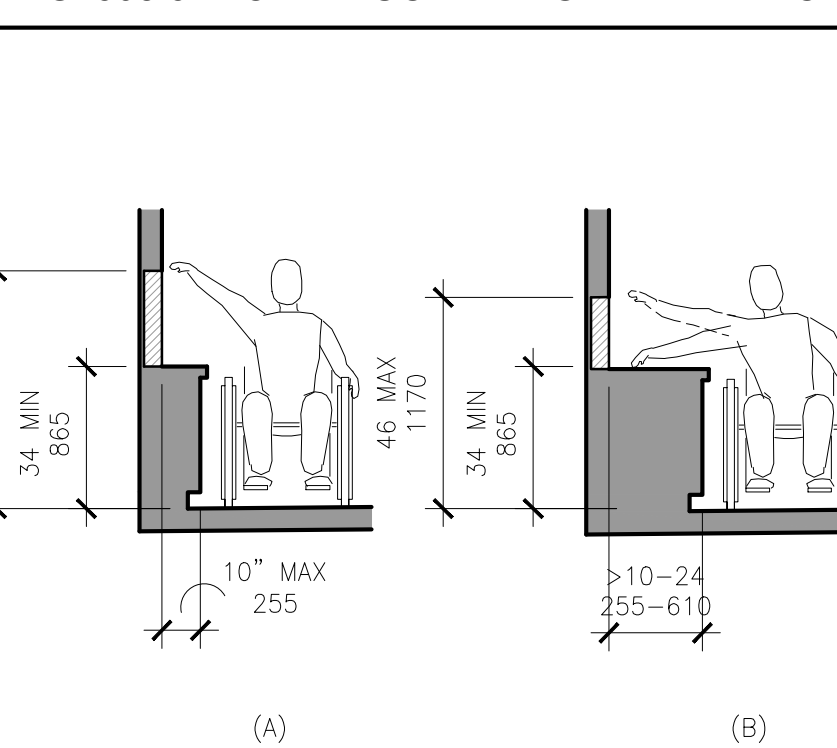


FIG. 403.5 CLEAR WIDTH OF AN ACCESSIBLE ROUTE

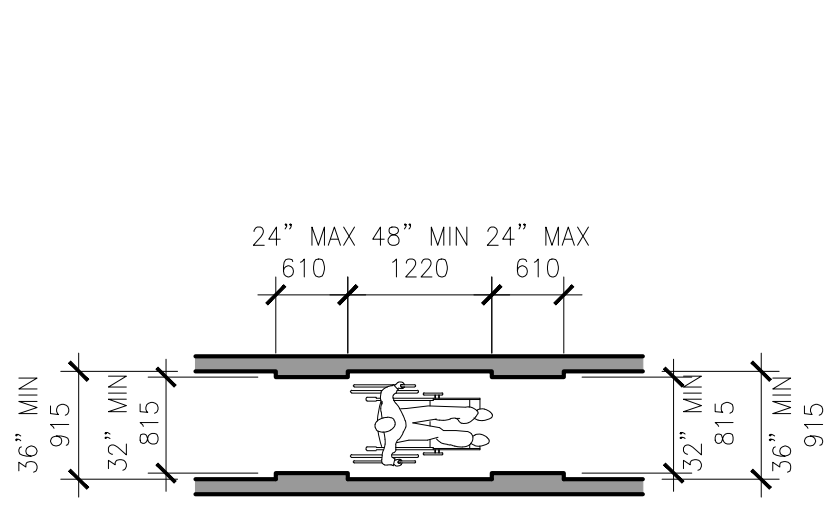


FIG. 403.5.1 CLEAR WIDTH AT 180° TURN

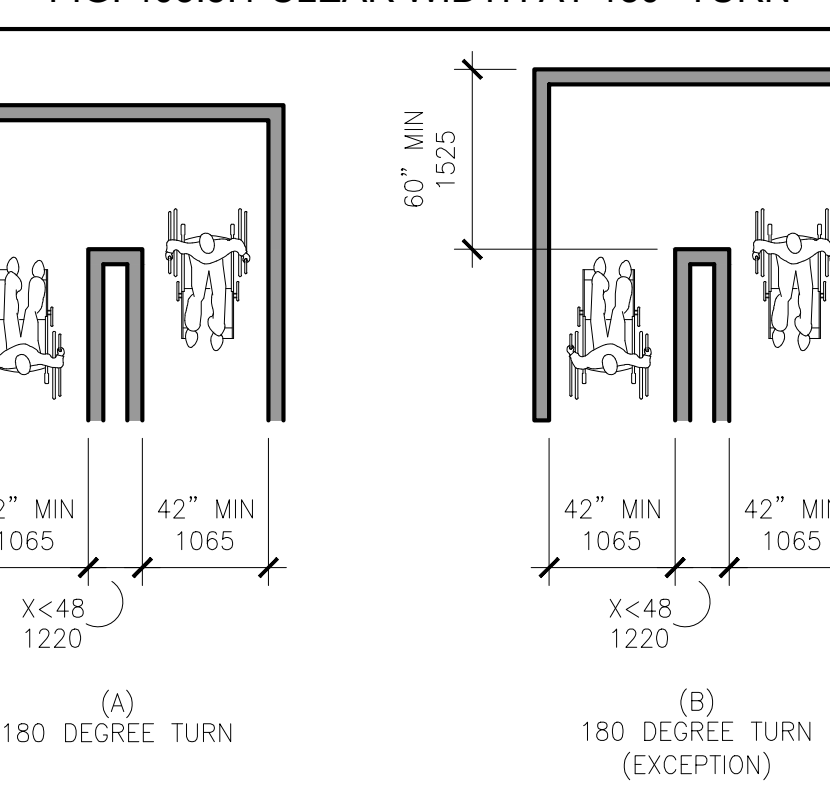


FIG. 404.2.2 CLEAR WIDTH OF DOORWAYS

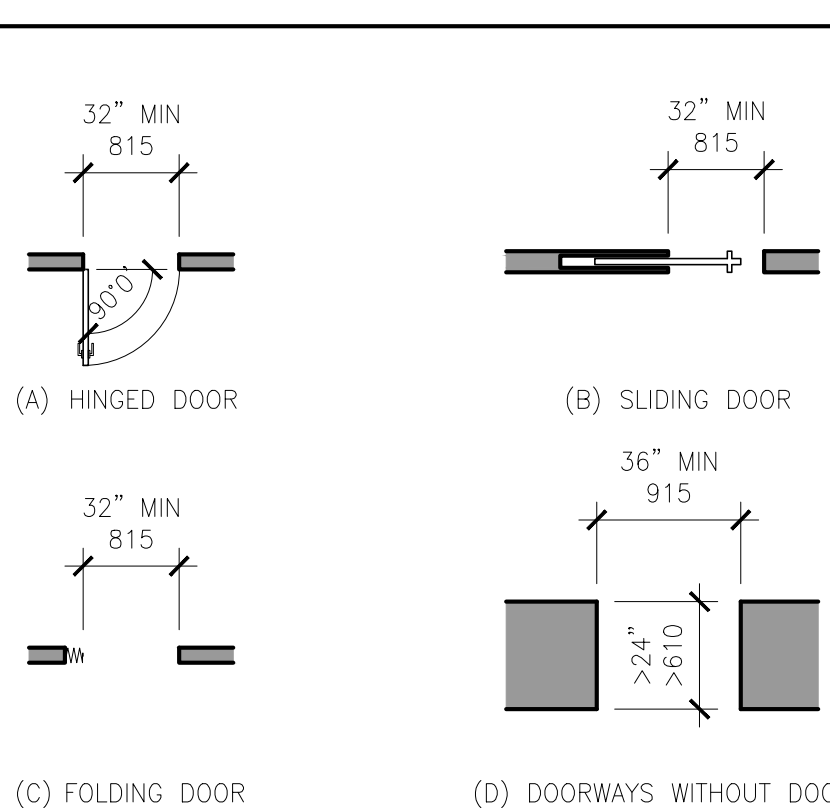


FIG. 404.2.3.3 MANEUVERING CLEARANCE AT SLIDING & FOLDING DOORS

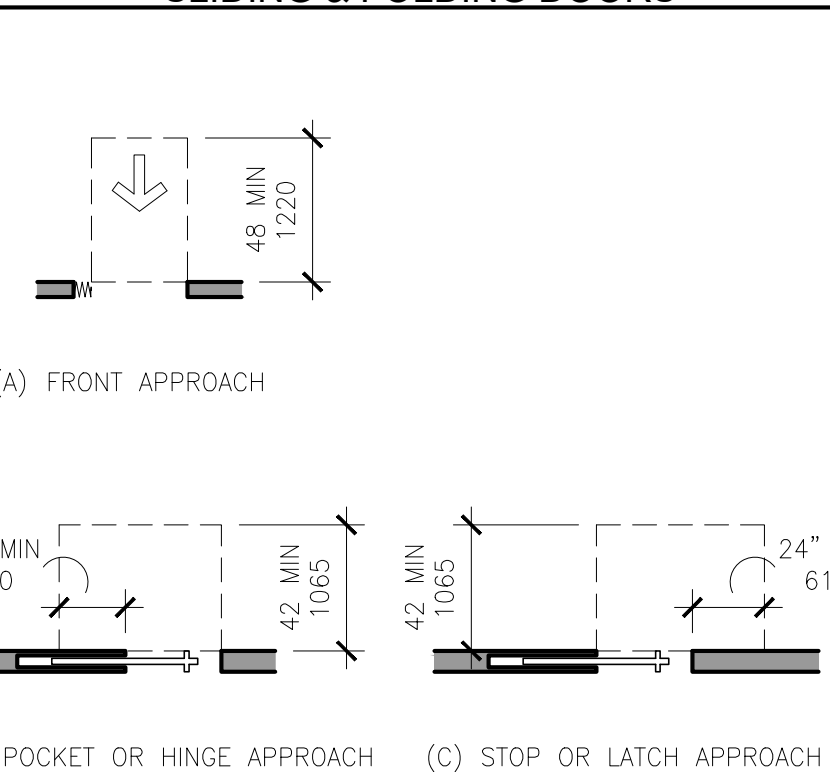


FIG. 404.2.5 TWO DOORS IN A SERIES

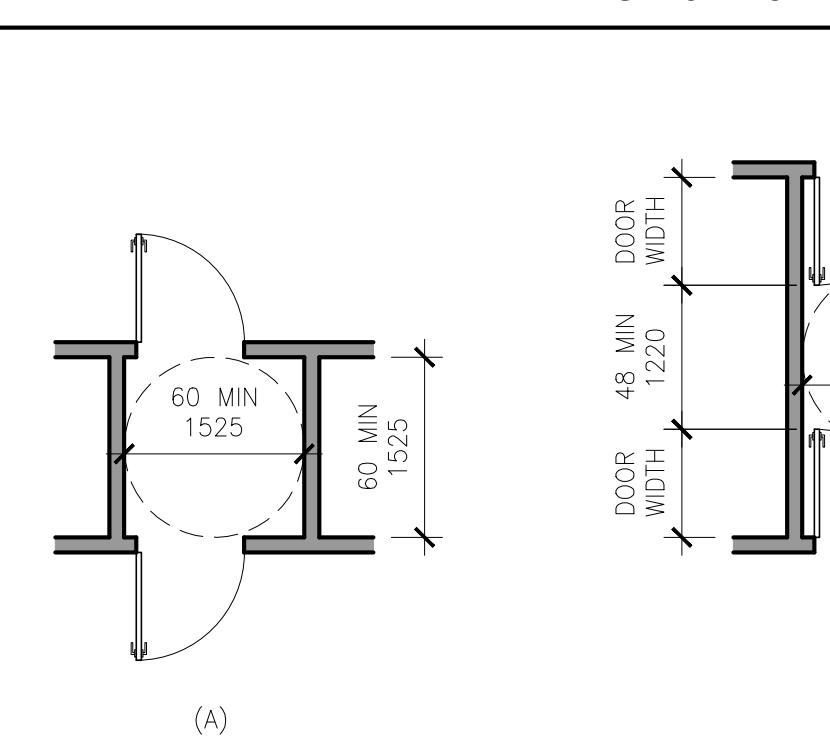


FIG. 404.2.3.2 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS

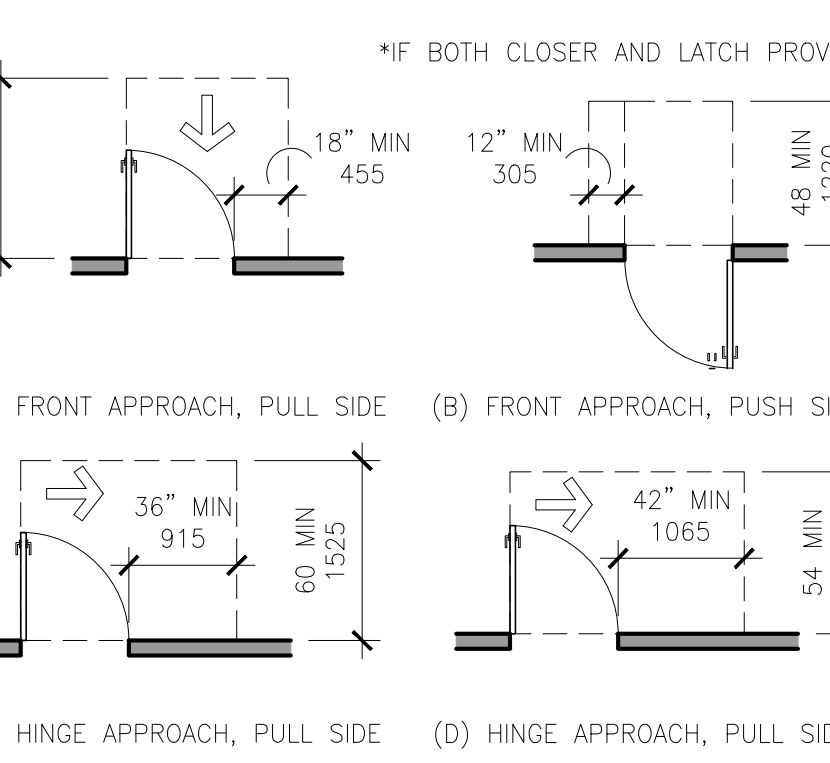


FIG. 404.2.3.4 MANEUVERING CLEARANCE AT DOORWAYS WITHOUT DOORS

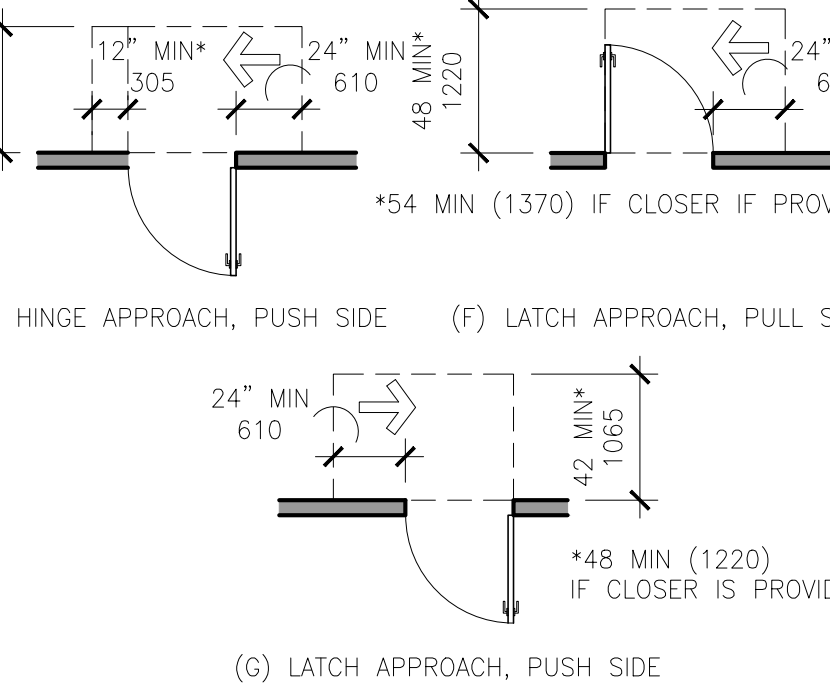
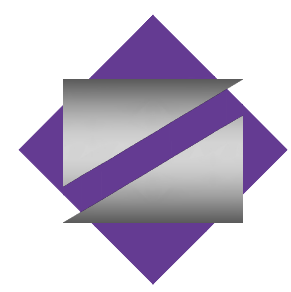
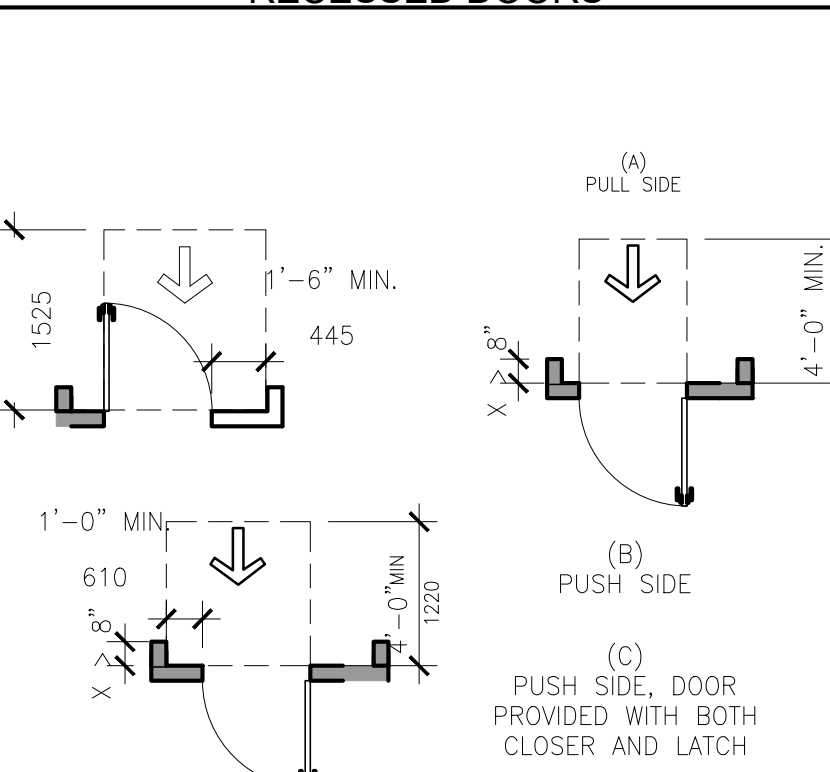


FIG. 404.2.3.5 MANEUVERING CLEARANCE AT RECESSED DOORS



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SHEET CONTENTS:

BARRIER FREE DETAILS AT EXISTING BUILDINGS

PROJECT TITLE:

ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT
1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

06.17.2026 ISSUED FOR BID

DATE	REVISIONS	REV

Date 03.16.26

Scale AS NOTED

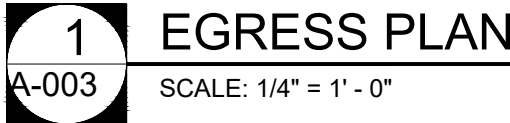
Drawn by MS

Checked by LU

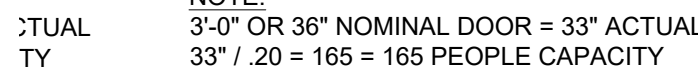
Job No. 225064

Drawing No.

A-002



Room Area	XXX
Load Factor	XXX
Occupancy	XXX



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EGRESS PLAN

PROJECT TITLE:

**ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT**
1 CONVENTION BLVD., ATLANTIC CITY, NJ 08401

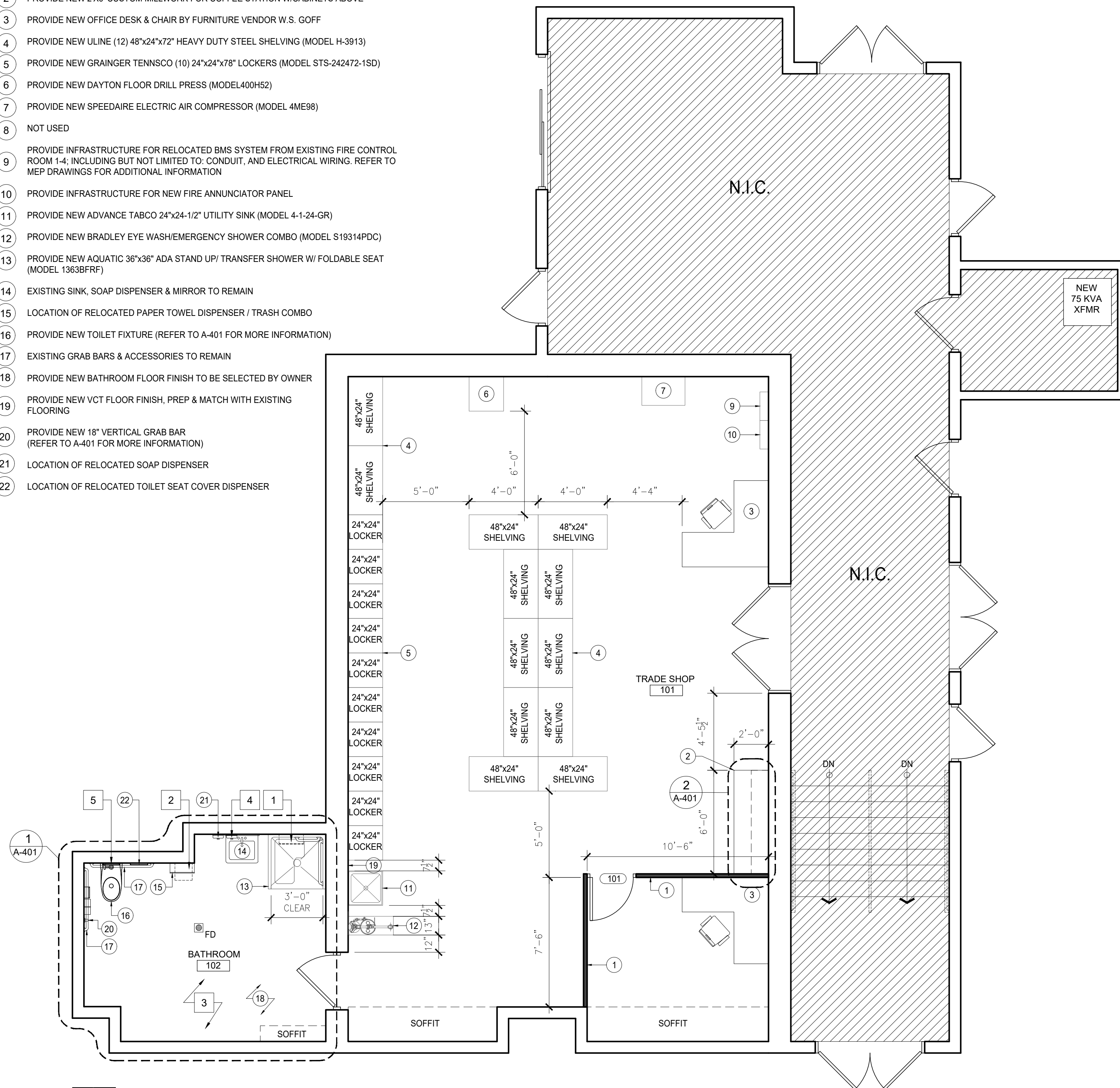
SUBMISSION:

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Scale	AS NOTED
Drawn by	MS
Checked by	LU
Job No.	225064

Drawing No.

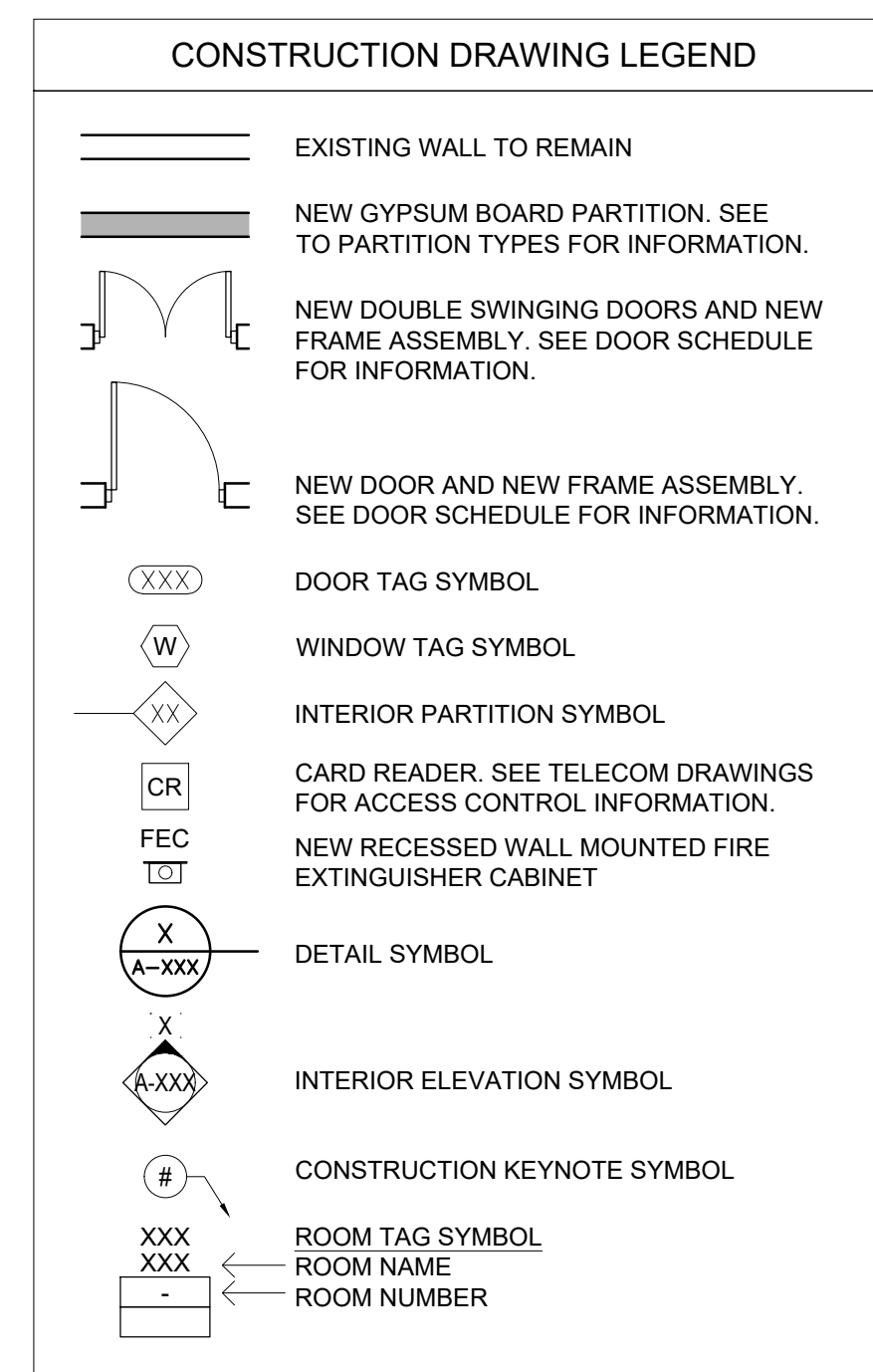
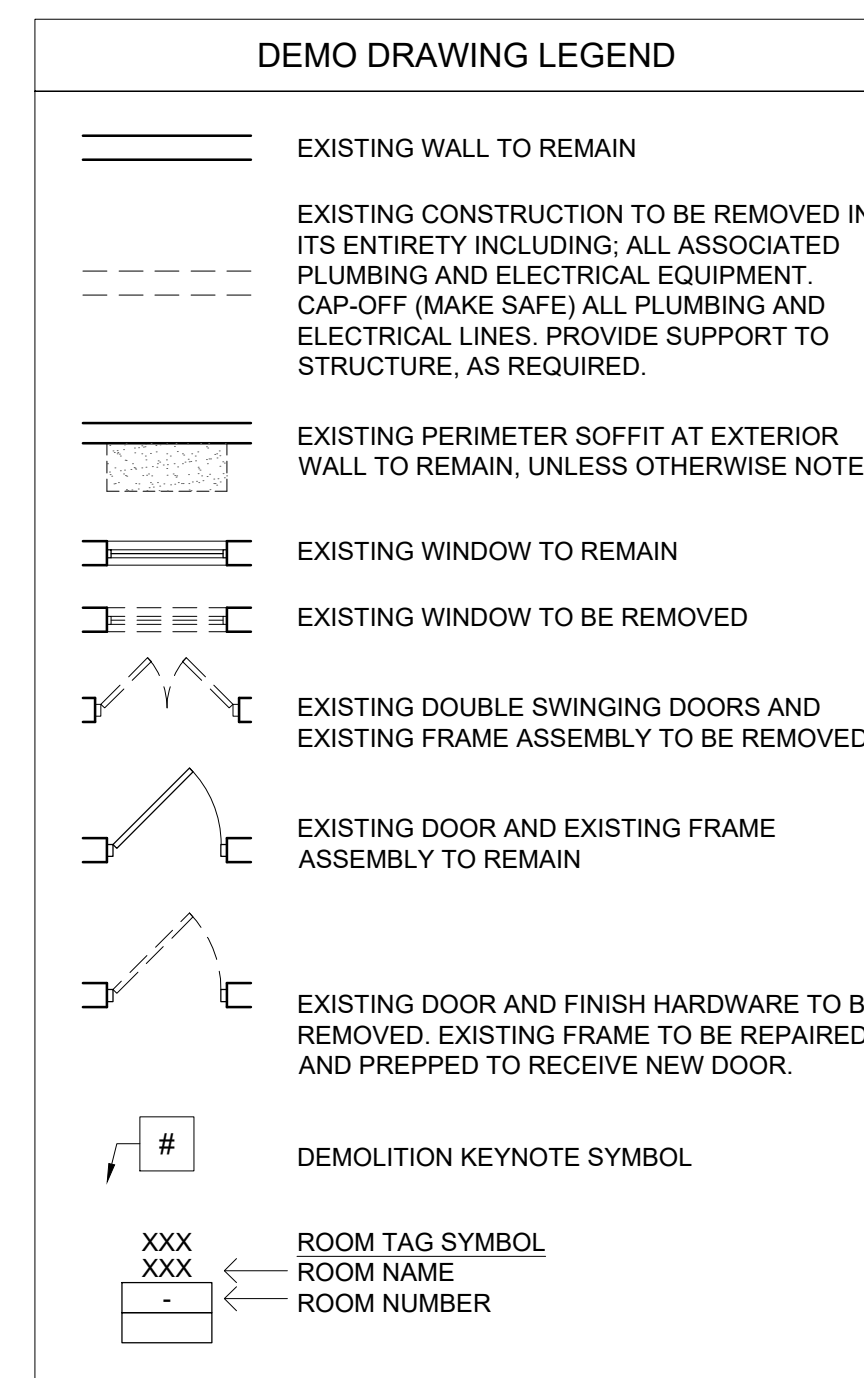
A-003

1	PROVIDE NEW CUSTOM PARTITION CUBICLE BY FURNITURE VENDOR W.S. GOFF
2	PROVIDE NEW 2'x8" CUSTOM MILLWORK FOR COFFEE STATION W/CABINETS ABOVE
3	PROVIDE NEW OFFICE DESK & CHAIR BY FURNITURE VENDOR W.S. GOFF
4	PROVIDE NEW ULINE (12) 48"x24"x72" HEAVY DUTY STEEL SHELVING (MODEL H-3913)
5	PROVIDE NEW GRANGER TENNSCO (10) 24"x24"x78" LOCKERS (MODEL STS-242472-1SD)
6	PROVIDE NEW DAYTON FLOOR DRILL PRESS (MODEL400H52)
7	PROVIDE NEW SPEEDAIRE ELECTRIC AIR COMPRESSOR (MODEL 4ME98)
8	NOT USED
9	PROVIDE INFRASTRUCTURE FOR RELOCATED BMS SYSTEM FROM EXISTING FIRE CONTROL ROOM 1-4, INCLUDING BUT NOT LIMITED TO: CONDUIT, AND ELECTRICAL WIRING. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION
10	PROVIDE INFRASTRUCTURE FOR NEW FIRE ANNUNCIATOR PANEL
11	PROVIDE NEW ADVANCE TABCO 24"x24-1/2" UTILITY SINK (MODEL 4-1-24-GR)
12	PROVIDE NEW BRADLEY EYE WASH/EMERGENCY SHOWER COMBO (MODEL S19314PC)
13	PROVIDE NEW AQUATIC 36"x36" ADA STAND UP/ TRANSFER SHOWER W/ FOLDABLE SEAT (MODEL 13638FRF)
14	EXISTING SINK, SOAP DISPENSER & MIRROR TO REMAIN
15	LOCATION OF RELOCATED PAPER TOWEL DISPENSER / TRASH COMBO
16	PROVIDE NEW TOILET FIXTURE (REFER TO A-401 FOR MORE INFORMATION)
17	EXISTING GRAB BARS & ACCESSORIES TO REMAIN
18	PROVIDE NEW BATHROOM FLOOR FINISH TO BE SELECTED BY OWNER
19	PROVIDE NEW VCT FLOOR FINISH, PREP & MATCH WITH EXISTING FLOORING
20	PROVIDE NEW 18" VERTICAL GRAB BAR (REFER TO A-401 FOR MORE INFORMATION)
21	LOCATION OF RELOCATED SOAP DISPENSER
22	LOCATION OF RELOCATED TOILET SEAT COVER DISPENSER



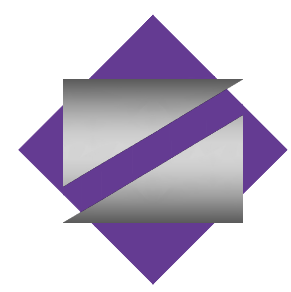
A-101 SCALE: 1/4" = 1' - 0"

1	EXISTING PAPER TOWEL DISPENSER / TRASH COMBO TO BE REMOVED, STORED & RE-INSTALLED (REFER TO CONSTRUCTION KEYNOTE 15 FOR LOCATION)
2	DEMO EXISTING PAPER TOWEL DISPENSER
3	DEMO EXISTING RESTROOM FLOORING
4	EXISTING SOAP DISPENSER TO BE REMOVED, STORED & RE-INSTALLED (REFER TO CONSTRUCTION KEYNOTE 21 FOR LOCATION)
5	EXISTING TOILET SEAT COVER DISPENSER TO BE REMOVED, STORED & RE-INSTALLED (REFER TO CONSTRUCTION KEYNOTE 22 FOR LOCATION)



1. DEMOLITION WORK INCLUDING, BUT NOT LIMITED TO, ITEMS DENOTED ON THIS PLAN SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS AND SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. BEFORE BEGINNING ANY WORK, CONTRACTORS SHALL SET UP A SCHEDULE OF OPERATIONS WITH THE OWNER, COORDINATING PERFORMANCE OF ALL WORK WITHIN THE OPERATION SCHEDULE OF THE FACILITY.
3. DURING DEMOLITION AND RENOVATION PHASING, EXISTING FIRE DETECTORS SHALL REMAIN IN OPERATION. ALSO MAINTAIN MOTION DETECTORS AND ALARMS FOR DURATION OF ALL WORK.
4. UTILITY THE OFFS TO THE EXISTING BUILDING TO BE REMOVED SHALL BE COORDINATED WITH GOVERNING UTILITY AUTHORITY.
5. ALL PIPING TO BE ABANDONED SHALL BE PLUGGED AND FILLED WITH FLOWABLE FILL AS DIRECTED.
6. BEFORE DEMOLITION BEGINS, GENERAL CONTRACTOR SHALL REMOVE AND STORE ALL EXISTING LOOSE FURNITURE, SHELVING, DESK, CHAIRS, LOOSE EQUIPMENT, TABLES, ETC. AS REQUIRED TO COMPLETE THE WORK.
7. CONTRACTORS SHALL COORDINATE DEMOLITION WORK ACCORDING TO THE APPROVED SCHEDULE OF OPERATIONS. CONTRACTORS SHALL PROVIDE TEMPORARY ENCLOSURES, COVERS, SUPPORTS, ETC. TO MAINTAIN USE OF ADJACENT UNDISTURBED SPACES WHEN DEMOLITION IS PERFORMED. ALL SAFETY SYSTEMS SHALL BE MAINTAINED FOR DURATION OF THE WORK.
8. CONTRACTORS SHALL KEEP THE SITE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THE WORK. UPON CONTRACT COMPLETION, GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE THE SITE TO THE SAME CONDITION AS BEFORE COMMENCEMENT OF THE WORK.
9. CONTRACTORS SHALL INCLUDE ALL DEMOLITION, REMOVAL OR RELOCATION OF EXISTING EQUIPMENT, MATERIALS, APPURTENANCES, ETC. AS INDICATED ON THE DRAWINGS OR AS HEREIN SPECIFIED OR REQUIRED. THESE CONDITIONS MAY OCCUR DURING THE PHASING OF THE INTERIOR RENOVATION.
10. ANY ITEMS NOT SPECIFICALLY IDENTIFIED BUT REQUIRED TO BE REMOVED OR REPAIRED TO PREPARE THE BUILDING FOR NEW WORK OR TO OTHERWISE PRODUCE THE FINISHED PRODUCT SHOWN IN THE CONTRACT DOCUMENTS WILL BE THE RESPONSIBILITY OF THE CONTRACTORS.
11. DASHED LINES INDICATE ITEMS TO BE REMOVED. THE LOCATIONS KEYED ON THE DRAWINGS FOR THESE NOTES ARE SCHEMATIC AND REPRESENT AREAS OF SIGNIFICANT WORK AND ARE NOT INTENDED TO REPRESENT "AS-BUILT" CONDITIONS. THESE ITEMS DO NOT RELIEVE THE CONTRACTORS OF ANY ADDITIONAL WORK OF SIMILAR SCOPE AND NATURE IDENTIFIED THROUGH FIELD INVESTIGATIONS.
12. DAMAGES TO "NOT IN CONTRACT" (N.I.C.) AND/OR "EXISTING TO REMAIN" (ETR) AREAS, FINISHES, AND/OR EQUIPMENT IN THE EXISTING FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS TO REPAIR SUCH DAMAGES AT THEIR OWN EXPENSE.
13. THERE SHALL BE NO INTERRUPTION OF THE EXISTING PLUMBING, MECHANICAL, ELECTRICAL AND/OR FIRE-PROTECTION SERVICES WITHOUT PRIOR CONSENT OF THE OWNER. SUCH INTERRUPTION SHALL BE KEPT TO A MINIMUM AND SHALL BE CLOSELY SCHEDULED WITH THE OWNER'S REPRESENTATIVE.
14. DEMOLITION PLAN SHOWS APPROXIMATE LAYOUT OF EXISTING PARTITIONS AND ARE NOT INTENDED TO REPRESENT "AS BUILT" CONDITIONS. ALL INFORMATION MUST BE FIELD VERIFIED.
15. CONTRACTORS TO VERIFY EXISTING CONCRETE FLOORS/SUBFLOOR BEFORE PROCEEDING ON ANY DEMOLITION WORK REQUIRING NEW FLOOR PENETRATIONS. CORE-DRILL ALL PIPE PENETRATIONS ON EXISTING CONCRETE SLAB. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL ITEMS THAT WILL PENETRATE THE EXISTING CONCRETE FLOOR. PROVIDE SEALANT AT PERIMETER OF ALL PIPE PENETRATING THE SLAB. COORDINATE WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS ON ALL REQUIRED PENETRATIONS.
16. WHERE INDICATED ON CONTRACT DOCUMENTS, REMOVE EXISTING FLOOR FINISHES IN THEIR ENTIRETY AND PATCH AND REPAIR SUBFLOOR AS REQUIRED TO RECEIVE NEW FLOOR FINISHES.
17. WHERE INDICATED ON CONTRACT DOCUMENTS, REMOVE EXISTING WALL FINISHES IN THEIR ENTIRETY AND PATCH AND REPAIR WALL ASSEMBLY AS REQUIRED TO RECEIVE NEW WALL FINISHES.
18. WHERE INDICATED ON CONTRACT DOCUMENTS, REMOVE EXISTING CEILING FINISHES IN THEIR ENTIRETY, INCLUDING SUPPORTS AND HANGERS TO UNDERSIDE OF STRUCTURE. PREP UNDERSIDE OF STRUCTURE AS REQUIRED TO RECEIVE NEW CEILING SYSTEM SUPPORTS, HANGERS, AND FINISHES.
19. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR RELATED DEMOLITION.
20. REFER TO TELECOMMUNICATIONS AND AUDIO VISUAL DRAWINGS FOR RELATED DEMOLITION, INCLUDING CORE DRILLING OF EXISTING CONCRETE SLAB.
21. ALL EXISTING LIFE SAFETY DEVICES (WALL MOUNTED AND CEILING MOUNTED) ARE TO BE PROTECTED DURING DEMOLITION. REMOVE, STORE, AND REINSTALL AS INDICATED IN CONTRACT DOCUMENTS.

1. CONTRACTORS SHALL REVIEW AND INCLUDE ALL NOTES IN THIS SET OF CONSTRUCTION DOCUMENTS. THIS INCLUDES BEING FAMILIAR WITH ALL GENERAL NOTES WHICH APPLY DIRECTLY TO ANY AND ALL TRADES. EACH SUBTRADE WILL BE RESPONSIBLE FOR REVIEWING THE ENTIRE SET OF DRAWINGS AND NOTING THE WORK AS APPLICABLE. ALL WORK INDICATED OR INFERRED ON THE DRAWINGS SHALL BE DEEMED AND INCLUDED IN ALL CONTRACTOR'S COSTS.
2. CONTRACTORS ARE RESPONSIBLE FOR THE PROTECTION OF ALL ITEMS TO REMAIN THROUGH DEMOLITION AND CONSTRUCTION WORK; INCLUDING BUT NOT LIMITED TO: PARTITIONS, FINISHES, DOORS, FRAMES, HARDWARE AND ELECTRICAL CIRCUITRY. CONTRACTORS SHALL BE RESPONSIBLE TO REPAIR AND/OR REPLACE IF DAMAGED.
3. THERE SHALL BE NO INTERRUPTION OF THE EXISTING MECHANICAL, ELECTRICAL, AND/OR PLUMBING SERVICES WITHOUT PRIOR CONSENT OF THE OWNER. SUCH INTERRUPTION SHALL BE KEPT TO A MINIMUM AND SHALL BE CLOSELY SCHEDULED WITH THE FACILITY. INTERRUPTIONS SHALL BE REQUESTED IN WRITING NO LESS THAN FOURTEEN (14) DAYS PRIOR TO THE WORK.
4. FOR ALL EXISTING CONSTRUCTION, CONTRACTORS SHALL MAKE ALL NECESSARY REMOVALS AND PATCH, LAMINATE, SKIM COAT OR RE-FURR AS NECESSARY ANY DAMAGED PARTITIONS TO REMAIN, IN ORDER TO PROVIDE A SMOOTH MONOLITHIC SURFACE FOR NEW FINISHES. GENERAL CONTRACTOR SHALL PROVIDE PATCHING AS REQUIRED IN ORDER TO INSTALL NEW POWER/COMMUNICATION RECEPTACLES AND DEVICES.
5. ALL DAMAGED EXISTING FIRE RATED PARTITIONS THROUGHOUT SHALL BE REPAIRED AS REQUIRED TO MAINTAIN THE SAME FIRE RATING.
6. CONTRACTORS SHALL PATCH AND REPAIR FLOOR SURFACES AS REQUIRED TO PROVIDE A SMOOTH AND LEVEL FINISH FOR THE PROPER INSTALLATION OF NEW FLOOR TREATMENT.
7. CONTRACTORS TO PROTECT SIGNAGE AND BUILDING CORE COMPONENTS AND DEVICES TO REMAIN. NOTIFY ARCHITECT, IMMEDIATELY AND IN WRITING, OF ANY FIRE PROTECTION DEVICES THAT ARE NOT FUNCTIONING OR NEED REPAIR PRIOR TO BEGINNING THE WORK.
8. PATCH AREAS TO MATCH ADJACENT SURFACES WHERE EXISTING OUTLETS, PIPES, AND COVER PLATES HAVE BEEN REMOVED.
9. FLOOR PATCHING REQUIRED BY WALL DEMOLITION DAMAGE, EXISTING PENETRATIONS, AND REMOVAL OF EXISTING FINISHES AND NEW FLOORING INSTALLATION SHALL BE BY THE CONTRACTORS.
10. CONTRACTORS TO PATCH MISCELLANEOUS CRACKS, HOLES AND DAMAGED CORNERS OF EXISTING WALLS TO MATCH ADJACENT WALL SURFACES, ETC. UNLESS OTHERWISE NOTED. CONTRACTORS TO ALSO PATCH HOLES IN EXISTING AND NEW WALLS REQUIRED TO COMPLETE THE NEW HVAC AND PLUMBING WORK.
11. THOROUGHLY PROTECT EXISTING CONSTRUCTION, FINISHES AND EQUIPMENT TO REMAIN FOR DURATION OF CONSTRUCTION WORK. REPLACE, REPAIR, AND RESTORE ALL ITEMS DAMAGED DURING CONSTRUCTION OPERATIONS TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
12. PROVIDE RECESSED BLOCKING AS REQUIRED FOR WALL MOUNTED SHELVING, CABINETS, PRESENTATION BOARDS, TOILET ACCESSORIES AND GRAB BARS IN TOILET AREAS, ETC. ITEMS TO BE PROPERLY SECURED FOR INTENDED PERIOD AND AS PER MANUFACTURER'S RECOMMENDATIONS.
13. PROVIDE CORNER BEADS AND METAL TRIMS AT GYPSUM BOARD CORNER CONDITIONS AND EXPOSED EDGE DETAILS INCLUDING LAMINATED CONDITIONS.
14. PROVIDE PENETRATIONS AT NEW WALLS FOR NEW DUCTWORK, PLUMBING, AND ELECTRICAL WORK. SEAL AROUND NEW WORK AS REQUIRED AT FIRE-RATED AND ACOUSTICAL WALLS AND CEILINGS. PROVIDE FIRE STOPPING AT PENETRATIONS THROUGH FIRE-RATED WALLS.
15. ALL WALLS SHALL BE PREPARED AS REQUIRED TO RECEIVE NEW NEW FINISHES.
16. FILL IN ABANDONED CORE DRILLS AND ABANDONED PENETRATIONS IN FLOOR SLAB WITH CONCRETE FILL. CONCRETE TO BE COMPATIBLE WITH EXISTING MATERIALS. PROVIDE FIRE-RATED, POKE-THRU COVER PLUGS AS REQUIRED TO MAINTAIN FIRE RATING AT OPENINGS NOT RECEIVING CONCRETE FILL.
17. PROVIDE ACCESS PANELS IN GYPSUM BOARD WALLS AND CEILINGS AS REQUIRED TO MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS REQUIRING ACCESS.
18. PROVIDE ALL MISCELLANEOUS STRUCTURAL STEEL; INCLUDING BUT NOT LIMITED TO STEEL ANCHOR BOLTS, LINTEL, METAL DECKING, METAL PLATES, STEEL FRAMING SUPPORT, ETC. AS REQUIRED TO SECURELY SUPPORT AND INSTALL NEW WORK.



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CERTIFICATE OF AUTHORIZATION AC-438

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DEMO/CONSTRUCTION FLOOR PLAN & NOTES

ATLANTIC CITY CONVENTION CENTER TRADE SHOP DEVELOPMENT

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

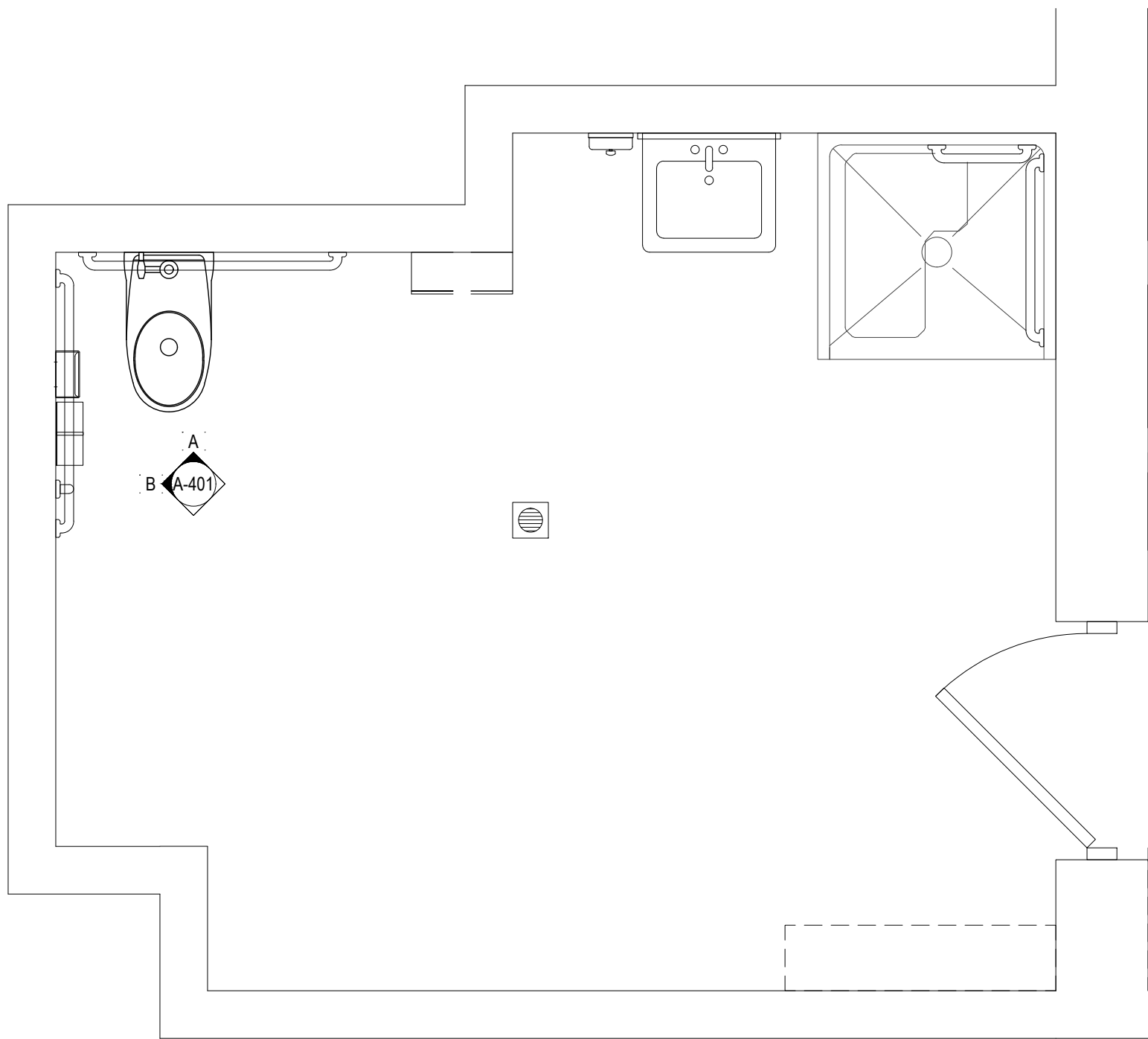
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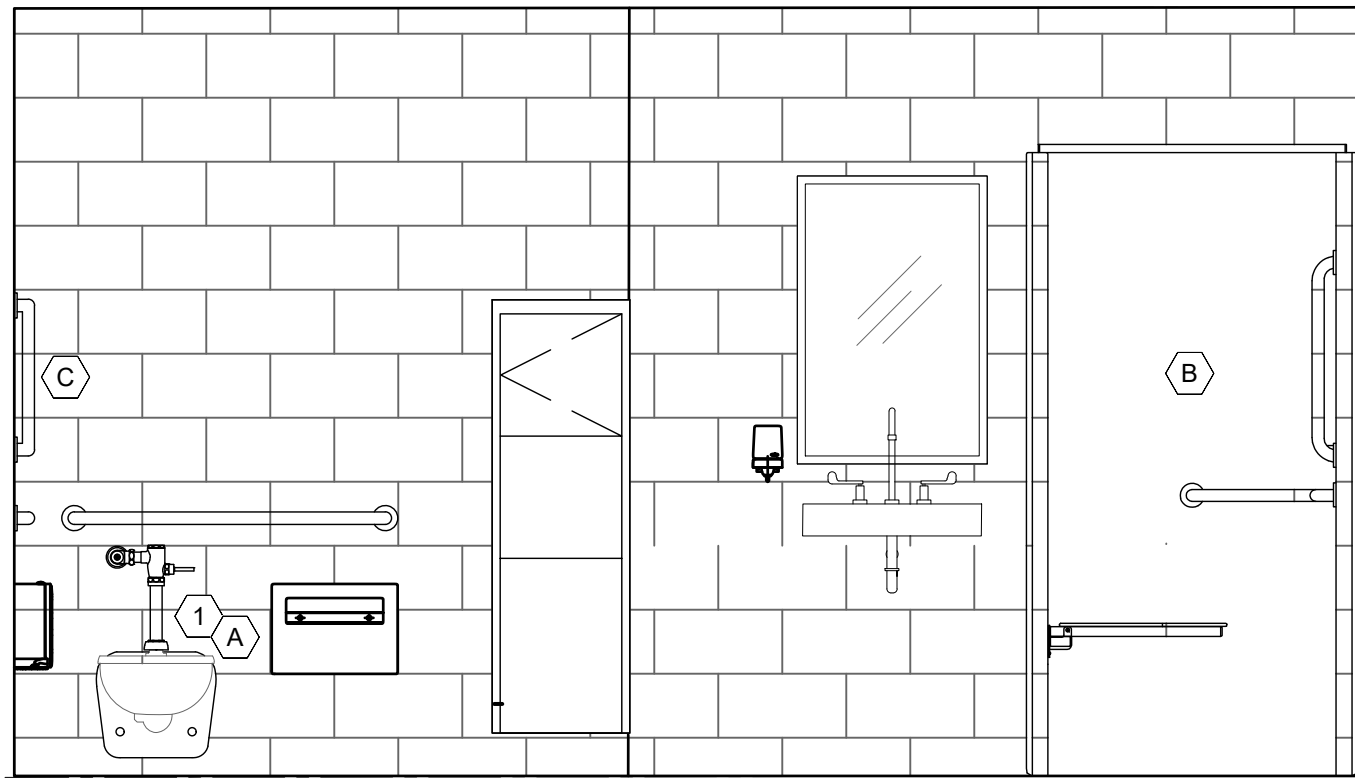
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Scale	AS NOTED
Drawn by	MS
Checked by	LU
Job No.	225064

Drawing No.

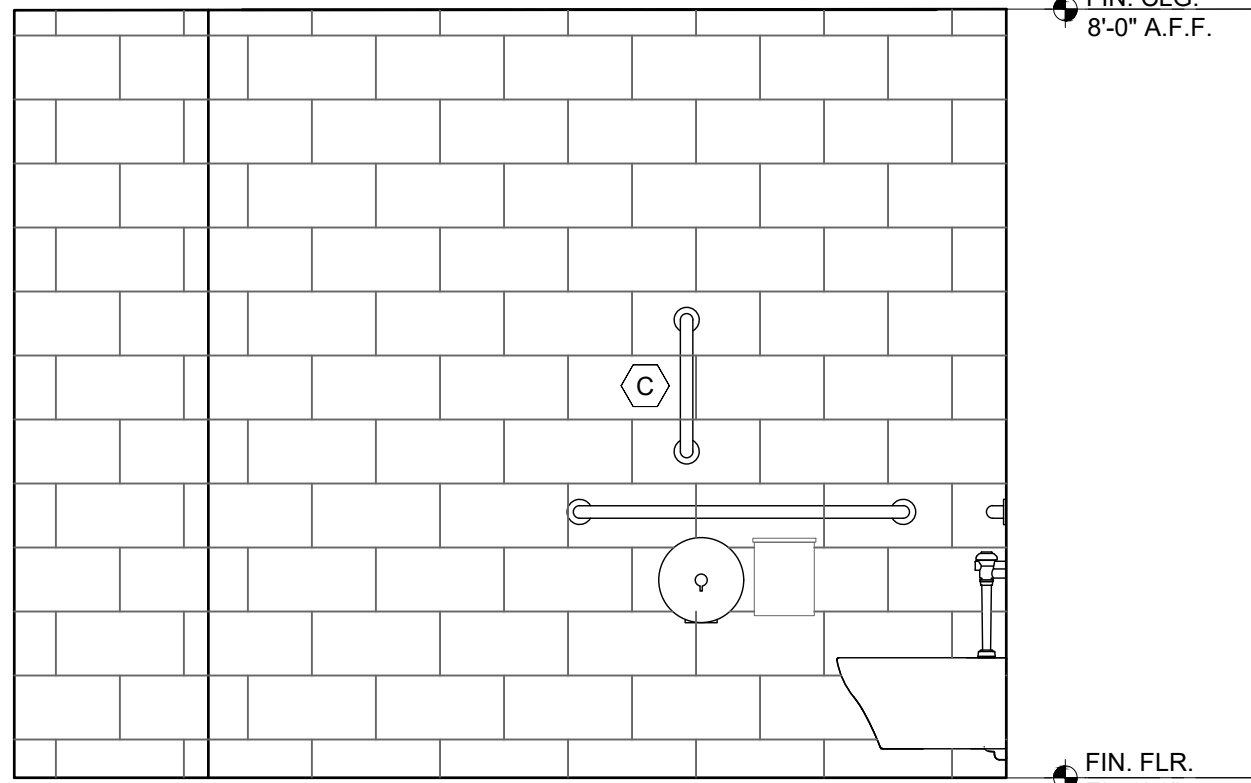
A-101



1
A-401 ENLARGED RESTROOM PLAN
SCALE: 1/2" = 1' - 0"



A
A-401 ADA TOILET ELEVATION
SCALE: 1/2" = 1' - 0"



B
A-401 ADA TOILET ELEVATION
SCALE: 1/2" = 1' - 0"

2
A-401 ENLARGED MILLWORK PLAN
SCALE: 1/2" = 1' - 0"

C
A-401 ADA MILLWORK ELEVATION
SCALE: 1/2" = 1' - 0"

BASIS OF DESIGN FOR TOILET ACCESSORIES

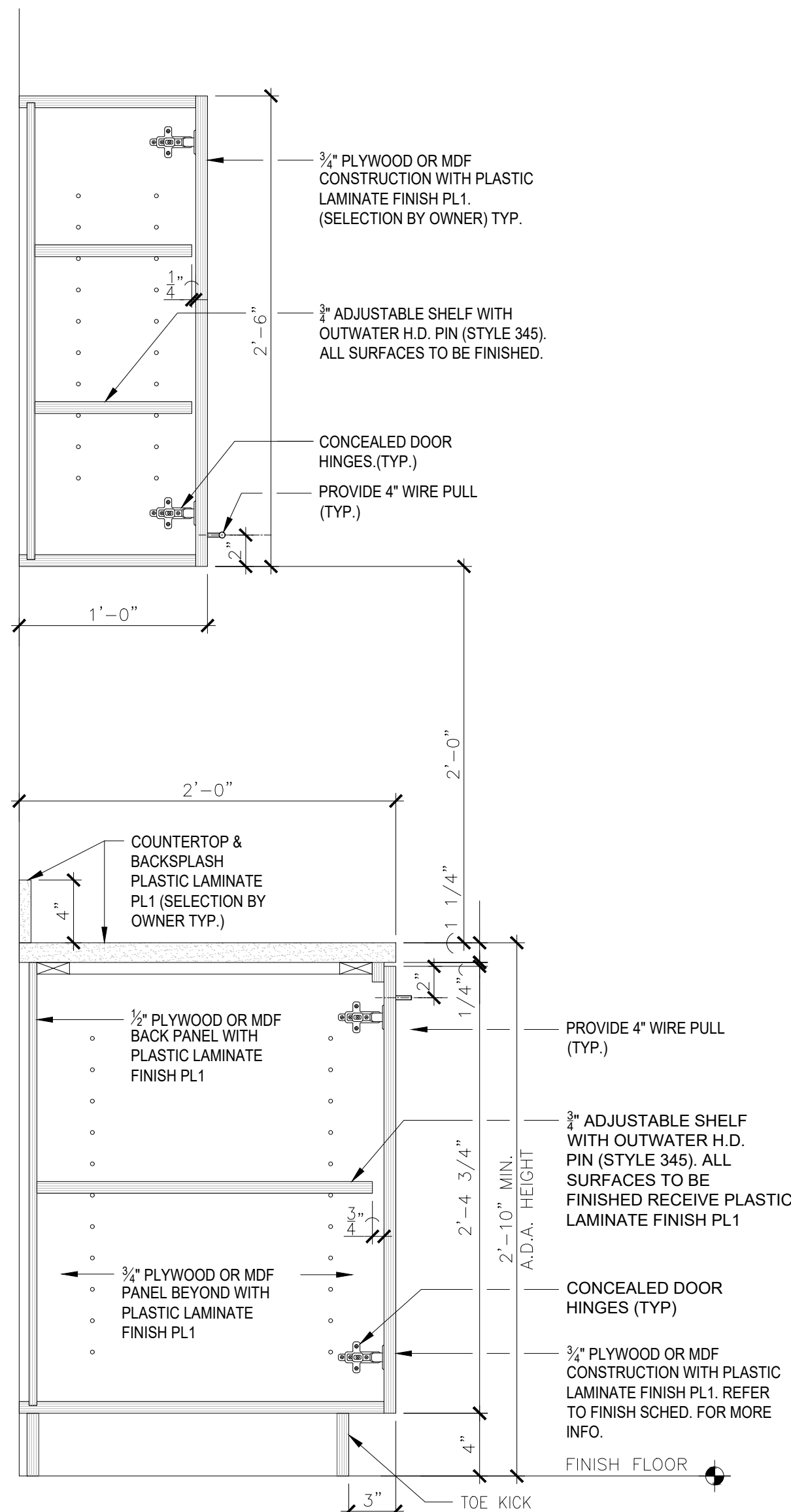
ITEM	PRODUCT NAME	DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
A	TOILET SEAT	COMMERCIAL HEAVY DUTY COVER SEAT	KOHLER	K-4731-C	POLYPROPYLENE (WHITE)
B	ACCESSIBLE SHOWER	36 X 36 ACRYLX ALCOVE CENTER DRAIN ONE-PIECE SHOWER IN WHITE	AQUATIC	1363BFRF	WHITE
C	VERTICAL GRAB BAR	18" VERTICAL GRAB BAR MATCH COLOR WITH EXISTING GRAB BARS	BOBRICK	B-6806.99 X 18	PROVIDE BLOCKING

PLUMBING FIXTURES

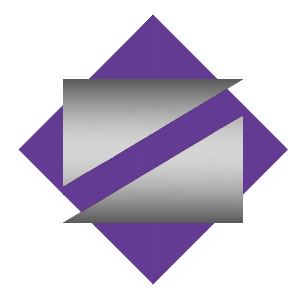
ITEM	PRODUCT NAME	DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
1	WALL MOUNTED TOILET / TOILET FLUSHOMETER	STANDARD, ST-2459 WATER CLOSET AND ROYAL 111 FLUSHOMETER.	SLOAN	WETS-2450.1001	

ACCESSIBLE TOILET AND ACCESSORIES MOUNTING HEIGHTS

WHEEL CHAIR TOILET FRONT ELEVATION	WHEEL CHAIR TOILET SIDE ELEVATION	RECESSED ADA/STANDER 2-IN-1 PAPER TOWEL DISPENSER + RECEPTACLE FRONT AND SIDE ELEVATION	MIRROR SOAP DISPENSER FRONT AND SIDE ELEVATION
DOUBLE ROLL TOILET TISSUE DISPENSER FRONT AND SIDE ELEVATION	SANITARY NAPKIN DISPOSAL FRONT AND SIDE ELEVATION	MIRROR FRONT ELEVATION	LIQUID SOAP DISPENSER FRONT/SIDE ELEVATION
			SURFACE MOUNTED SEAT COVER DISPENSER FRONT AND SIDE ELEVATION



D
A-401 MILLWORK DETAIL AT BASE AND WALL CABINETS
SCALE: 1 1/2" = 1' - 0"



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SHEET CONTENTS:

**ENLARGED
BATHROOM/MILLWORK
PLANS/ELEVATIONS**

PROJECT TITLE:

**ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT**
1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

06.17.2026 ISSUED FOR BID

DATE	REVISIONS	REV

Date 03.16.26
Scale AS NOTED
Drawn by MS
Checked by LU
Job No. 225064
Drawing No.

A-401

HVAC SYMBOLS LIST

(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

HVAC BASIC PIPING SYMBOLS

	PIPE DROP
	PIPE RISE
	PITCH UP (IN DIRECTION OF FLOW)
	PITCH DOWN (IN DIRECTION OF FLOW)
	UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER – FLAT BOTTOM
	ECCENTRIC REDUCER – FLAT TOP
	FLANGED CONNECTION
	FLANGED END
	EXPANSION LOOP
	PIPE EXPANSION JOINT
	PIPE ALIGNMENT GUIDE
	PIPE ANCHOR
	GATE OR SHUTOFF VALVE (AS NOTED)
	ANGLE VALVE
	GLOBE VALVE
	ANGLE GLOBE VALVE
	NEEDLE VALVE COCK
	DRAIN VALVE
	LOCK SHIELD VALVE
	CHECK VALVE, SWING OR LIFT
	SILENT CHECK VALVE
	FLEXIBLE CONNECTOR
	BUTTERFLY VALVE
	BALL VALVE
	SQUARE HEAD COCK
	CALIBRATED BALANCING VALVE
	PLUG VALVE (TYPE AS NOTED)
	AUTOMATIC CONTROL VALVE
	THREE-WAY AUTOMATIC CONTROL VALVE
	"Y" TYPE STRAINER W/BLOW OFF VALVE
	THERMOMETER AND WELL
	PRESSURE GAUGE
	PUMP
	HOT WATER SUPPLY
	HOT WATER RETURN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	DOMESTIC WATER
	DRAIN
	REFRIGERANT
	NATURAL GAS
	STEAM TRAP

HVAC BASIC DUCTWORK & ACCESSORY SYMBOLS

	SINGLE LINE DUCTWORK OR EQUIPMENT – NEW
	SINGLE LINE DUCTWORK OR EQUIPMENT – EXISTING
	SINGLE LINE DUCTWORK OR EQUIPMENT – DEMOLITION
	FLEXIBLE DUCT
	TRANSITION
	DUCTWORK WITH ACOUSTIC LINING
	CEILING DIFFUSER
	RETURN/EXHAUST GRILLE
	SUPPLY AIR DUCT UP
	RETURN AIR DUCT UP
	EXHAUST AIR DUCT UP
	SUPPLY AIR DUCT DN
	RETURN AIR DUCT DN
	EXHAUST AIR DUCT DN
	BACK DRAFT DAMPER
	MOTORIZED DAMPER
	AUTOMATIC SMOKE DAMPER
	RISE IN DUCTWORK (IN DIRECTION OF AIR FLOW)
	DROP IN DUCTWORK (IN DIRECTION OF AIR FLOW)
	CENTER LINE
	CUBIC FEET PER MINUTE
	DIAMETER
	SQUARE FEET
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	DIRECTION OF RETURN OR EXHAUST AIR
	DIRECTION OF SUPPLY OR OUTSIDE AIR
	COMBINATION FIRE & SMOKE DAMPER W/ ACCESS DOOR
	FIRE DAMPER (WALL) W/ ACCESS DOOR
	FIRE DAMPER (CEILING) W/ ACCESS DOOR
	VOLUME DAMPER
	DUCT SMOKE DETECTOR
	THERMOSTAT
	HUMIDISTAT
	TEMPERATURE SENSOR
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	NITROGEN DIOXIDE SENSOR
	DOOR UNDERCUT
	SECTION DESIGNATION
	DETAIL DESIGNATION
	MECHANICAL EQUIPMENT TAG
	PROPORTIONAL SPLIT OR EQUAL SPLIT. RADIUS ELBOWS (REFER TO SPECIFICATIONS)
	RADIUS ELBOWS OR SQUARE ELBOWS w/ TURNING VANES (REFER TO SPECIFICATIONS)
	ROUND BRANCH TAKE-OFF w/ SPIN FITTING
	BRANCH TAKE-OFF w/ HEEL
	ROUND BRANCH TAKE-OFF w/ BELLMOUTH
	TEE-ON-TAPER (DUST COLLECTION ONLY)
	DUCT ELBOW UP
	DUCT ELBOW DN

HVAC ABBREVIATIONS

(NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT)

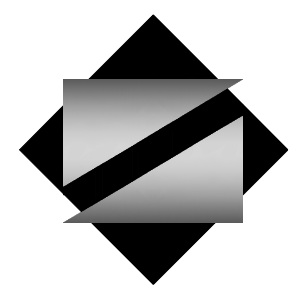
AAV	AUTOMATIC AIR VENT	HW	HOT WATER
AC	AIR CONDITIONING	HX	HEAT EXCHANGER
ACU	AIR CONDITIONING UNIT	HZ	HERTZ (FREQUENCY)
AD	ACCESS DOOR	IN.	INCH OR INCHES
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
AHU	AIR HANDLING UNIT	LD	LINEAR DIFFUSER
BCU	BLOWER COIL UNIT	LF	LINEAR FEET
BDD	BACKDRAFT DAMPER	LWB	LEAVING WET BULB TEMPERATURE
BHP	BRAKE HORSEPOWER	LWT	LEAVING WATER TEMPERATURE
BMS	BUILDING MANAGEMENT SYSTEM	MBH	THOUSAND BTU PER HOUR
BR	BOTTOM REGISTER	MER	MECHANICAL EQUIPMENT ROOM
BT	BOTTOM THROAT	MIN	MINIMUM
BTU	BRITISH THERMAL UNIT	MOD	MOTOR OPERATED DAMPER
BTUH	BTU PER HOUR	(N)	NEW
CD	CEILING DIFFUSER	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CG	CEILING GRILLE	NO	NORMALLY OPEN
CHWR	CHILLED WATER RETURN	NO.	NUMBER
CHWS	CHILLED WATER SUPPLY	NTS	NOT TO SCALE
CLG	CEILING	OA	OUTSIDE AIR
CO	CLEANOUT	OAI	OUTSIDE AIR INTAKE
COND	CONDENSATE	OED	OPEN END DUCT
CR	CEILING REGISTER	P.C.	PLUMBING CONTRACTOR
CUH	CABINET UNIT HEATER	PSI	POUNDS PER SQUARE INCH
CV	CONSTANT VOLUME	PSIA	PSI ABSOLUTE
CW	COLD WATER/CONDENSOR WATER	PSIG	PSI GAUGE
DB	DRY BULB	RA	RETURN AIR
DDC	DIRECT DIGITAL CONTROL	(RE)	RELOCATED EXISTING
DIAM	DIAMETER	RF	RETURN FAN
DMPR	DAMPER	RG	RETURN GRILLE
DN	DOWN	RH	RELATIVE HUMIDITY
DX	DIRECT EXPANSION	RHC	REHEAT COIL
(E)	EXISTING TO REMAIN	RLA	RUNNING LOAD AMPS
(ER)	EXISTING TO BE REMOVED	RPM	REVOLUTIONS PER MINUTE
(ERR)	EXISTING TO BE REMOVED & RELOCATED	RR	RETURN REGISTER
EA	EXHAUST AIR/EACH	(RRO)	EXISTING TO BE REMOVED & RETURN TO OWNER
EAT	ENTERING AIR TEMPERATURE	RTU	ROOFTOP HANDLING UNIT
E.C.	ELECTRICAL CONTRACTOR	SA	SUPPLY AIR
EDB	ENTERING DRY BULB TEMPERATURE	SD	SMOKE DAMPER
EF	EXHAUST FAN	SF	SUPPLY FAN
EG	EXHAUST GRILLE	SP	STATIC PRESSURE
EL	ELEVATION	SPEC	SPECIFICATION
EMS	ENERGY MANAGEMENT SYSTEM	SQFT	SQUARE FEET
ER	EXHAUST REGISTER	SR	SUPPLY REGISTER
ESP	EXTERNAL STATIC PRESSURE	TDH	TOTAL DYNAMIC HEAD
EWB	ENTERING WET BULB	TEMP	TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TG	TRANSFER GRILLE
EXH	EXHAUST	TR	TOP REGISTER
°F	DEGREES FAHRENHEIT	TRANS	TRANSITION
FA	FRESH AIR/FREE AREA (SQ. FT.)	TSP	TOTAL STATIC PRESSURE
FC	FLEXIBLE CONNECTION	T-STAT	THERMOSTAT
FCU	FAN COIL UNIT	TYP	TYPICAL
FD	FIRE DAMPER	UH	UNIT HEATER
FIN FL/FF	FINISHED FLOOR	UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPERES	VD	VOLUME DAMPER
FPB	FAN-POWERED BOX	VFD	VARIABLE FREQUENCY DRIVE
FPM	FEET PER MINUTE	VAV	VARIABLE AIR VOLUME
GAL	GALLON	VV	VARIABLE INLET VANES
G.C.	GENERAL CONTRACTOR	W	WIDTH
GPH	GALLONS PER HOUR	W/	WITH
GPM	GALLONS PER MINUTE	WB	WET BULB
GRD	GRILLES, REGISTERS & DIFFUSERS	W.C.	WATER COLUMN
HT	HEIGHT	W.G.	WATER GAUGE
HP	HORSEPOWER	WH	WATER HEATER
HR	HOUR	WMS	WIRE MESH SCREEN
HV	HEATING AND VENTILATING		

GENERAL FIRESTOPPING NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR EXCEEDING WALL/CEILING/FLOOR ASSEMBLY RATINGS FOR ALL PENETRATIONS. CONTRACTOR SHALL VERIFY LOCATION AND RATING OF ALL FIRE ASSEMBLIES AND PROVIDE INTUMESCENT COLLARS AT ALL PENETRATIONS AND FIRE RATED CAULKING AS REQUIRED.

MECHANICAL NOTES

- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS AND VISIT THE SITE TO BECOME ACQUAINTED WITH THE CONSTRUCTION AND THE EXTENT OF THE WORK. NO EQUIPMENT OR MATERIAL IS TO BE ORDERED OR FABRICATED PRIOR TO FIELD VERIFICATION OF ALL MEASUREMENTS, CLEARANCES, POTENTIAL CONFLICTS WITH EXISTING CONDITIONS OR THAT OF OTHER TRADES ON THE JOB.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE, WHETHER SPECIFIED OR IMPLIED.
- WHERE THERE IS A DISCREPANCY BETWEEN MATERIAL OR EQUIPMENT IN THE DRAWINGS AND/OR SPECIFICATIONS, THE MECHANICAL CONTRACTOR SHALL ASSUME THE MORE STRINGENT, HIGHER QUALITY AND MORE EXPENSIVE OPTION FOR BIDDING.
- CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO SUBMITTING A BID.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE INTERNATIONAL BUILDING CODE, MECHANICAL CODE, FUEL GAS CODE, PLUMBING CODE, NEC CODE AND ALL OTHER STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL GIVE ALL NOTICES, OBTAIN AND PAY FOR ALL PERMITS, DEPOSITS AND FEES NECESSARY.
- DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS. THE DESIGN DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LAYOUT AND CONNECTIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, ETC. AT THE JOB SITE.
- CONTRACTOR SHALL REVIEW THE WORK OF OTHER TRADES TO PREVENT INTERFERENCE BETWEEN BEAMS, STRUCTURES, PIPING, LIGHTING FIXTURES, ETC. BEFORE PROCEEDING WITH NEW WORK.
- CONTRACTOR SHALL GUARANTEE THE ENTIRE JOB AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE BINDING REGARDLESS OF MANUFACTURER'S GUARANTEE AND CONTRACTOR SHALL REMOVE AND REPLACE ALL DEFECTIVE MATERIAL REGARDLESS OF CAUSE (EXCEPT FOR DEFECTS TRACEABLE TO IMPROPER MAINTENANCE OR MALICIOUS DESTRUCTION OCCURRING AFTER THE SYSTEM HAS BEEN TURNED OVER).
- ALL MATERIALS USED ANYWHERE IN THE WORK SHALL HAVE NFPA RATING AS FOLLOWS:
 - FLAME SPREAD – NOT OVER 25
 - SMOKE DEVELOPED – NOT OVER 50
 - FUEL CONTRIBUTED – NOT OVER 25ALL MATERIALS SHALL BE "SELF-EXTINGUISHING"
- CONTRACTOR SHALL SUBMIT 1/4" SCALE SHEET METAL SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- SUBMIT SPECIFICATION SHEETS OF ALL EQUIPMENT SUPPLIED OR INSTALLED TO THE ARCHITECT/ENGINEER FOR APPROVAL, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - AIR CONDITIONING UNITS
 - GRILLES, REGISTERS, AND DIFFUSERS
 - CONTROLS
 - PIPING
 - INSULATION
 - FANS
- ALL MECHANICAL EQUIPMENT AND APPLIANCES INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
- EQUIPMENT AND MATERIALS ARE SPECIFIED TO ESTABLISH A STANDARD OF QUALITY. ALL MATERIALS AND EQUIPMENT USED FOR THIS CONTRACT SHALL BE NEW, UNUSED AND OF THE LATEST MODEL OR DESIGN AVAILABLE.
- ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT INSULATION IS APPLIED.
- UPON COMPLETION OF THE WORK, REMOVE ALL EXCESS MATERIAL, DEBRIS, TOOLS AND EQUIPMENT FROM THE SITE, AND LEAVE THE PREMISES IN A BROOM CLEAN CONDITION.
- CONTRACTOR SHALL PROVIDE THREE (3) COMPLETE SETS OF BOUND OPERATING AND MAINTENANCE INSTRUCTIONS. CONTRACTOR SHALL INSTRUCT THE OWNER OR HIS AGENT WITH REGARD TO THE PROPER USE OF THE SYSTEM UNTIL SUCH INSTRUCTION IS COMPLETE TO THE OWNER'S SATISFACTION.
- ALL DUCT SIZES SHOWN ARE INSIDE CLEAR.
- MAXIMUM ALLOWABLE LENGTH FOR FLEXIBLE DUCT IS SIX (6') FEET.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING, EITHER ENGAGING HIS OWN GENERAL SUBCONTRACTOR OR ONE QUALIFIED BY THE OWNER.
- CONTRACTOR SHALL INFORM THE ENGINEER OF ANY QUESTIONS OR DISCREPANCIES PRIOR TO PRECURSOR AND/OR FABRICATION OF ANY MATERIALS AND INSTALLATION.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN GUIDELINES, INSTALLATION MANUAL, SPECIFICATIONS, AND O&M MANUAL.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL, SUPPORTS, BRACES, HANGERS, ETC., REQUIRED FOR HIS CONTRACT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT SUPPORT LOCATION WITH THE INSTALLATION WITH ROOFING AND STRUCTURAL CONTRACTORS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTIONS, SUPPORTS, TERMINATIONS & ACCESSORIES ASSOCIATED WITH AIR HANDLING UNITS, FANS, ETC.
- SUPPORT ALL EQUIPMENT, PIPING AND DUCTWORK WITH VIBRATION ISOLATION HANGERS AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR WHO WILL PROVIDE POWER WIRING TO ALL MECHANICAL EQUIPMENT. MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL AND INTERLOCK WIRING AND ALL THERMOSTATS AND ACCESSORIES.
- ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
- PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCHES AND RUNOUTS. PROVIDE OPPOSED BLADE VOLUME DAMPERS AT ALL REGISTERS, GRILLES AND DIFFUSER NECKS IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHETHER SHOWN ON DRAWINGS OR NOT.
- PROVIDE AT MINIMUM 10 GAUGE STEEL SLEEVES FOR ALL DUCT PENETRATIONS THROUGH FIRE WALLS, FLOORS AND PARTITIONS. PROVIDE PIPE SLEEVES FOR ALL MECHANICAL PIPING PENETRATING THROUGH FIRE WALLS, FLOORS AND PARTITIONS. SEAL ALL ANNULAR SPACE BETWEEN SLEEVES AND DUCTWORK OR PIPING WITH A FIRE BARRIER MATERIAL.
- THE INSIDE OF ALL DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
- ACCESS PANELS SHALL BE PROVIDED TO SERVICE ALL VALVES, DAMPERS, HEATERS, CONCEALED MECHANICAL EQUIPMENT, TRAPS, CLEANOUTS AND DISCHARGE SIDE OF ELECTRIC HEATERS. COORDINATE ACCESS DOORS ON FINISHED SURFACES W/ ARCHITECT AND OWNER.
- FINAL LOCATIONS FOR MOUNTING ALL THERMOSTATS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO INSTALLING ANY CONTROL WORK. ALL COMMON AREA THERMOSTATS SHALL BE EQUIPPED WITH LOCKING COVERS. MOUNT ALL THERMOSTATS TO COMPLY WITH ADA REQUIREMENTS. THERMOSTAT WIRING SHALL BE INSTALLED IN CONCEALED SPACE, WALL OR CHASE – COORDINATE WITH THE OWNER REPRESENTATIVE. CONTRACTOR SHALL PROVIDE 1-INCH THICK (R-5) FOAM BOARD INSULATION PAINTED TO MATCH THE ROOM'S FINISH FOR ALL THERMOSTAT'S MOUNTED ON MASONRY WALLS.
- THE TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC OR NEBB STANDARDS.
- CONTRACTOR SHALL ENSURE THAT ALL MECHANICAL DEVICES WILL BE INSTALLED IN LOCATIONS WHICH AFFORD ACCESSIBILITY FOR MAINTENANCE AND REPAIR. COORDINATE INSTALLATION AMONG ALL TRADES TO AVOID INTERFERENCES AND LOCATE EQUIPMENT TO PROVIDE CLEARANCES WHICH EXCEED THOSE RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE SAFETY OF STRUCTURE, BOTH EXISTING AND NEW.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SCHEDULING AND ASSOCIATED HOISTING, STAGING, AND ERECTING OF MATERIALS. ALL ELEMENTS OF THE EXISTING PROPERTY SHALL BE PROTECTED AGAINST DAMAGE RESULTING FROM THESE ACTIVITIES.
- THE LOCATION OF EXISTING SYSTEMS AND SYSTEM COMPONENTS WAS OBTAINED THROUGH EXISTING DRAWINGS AND FIELD SURVEYS. ONLY SYSTEM ELEMENTS THAT WERE CLEARLY VISIBLE HAVE BEEN IDENTIFIED. LOCATIONS AND SIZES OF EXISTING SYSTEMS MUST BE FIELD VERIFIED BY THE CONTRACTOR, PRIOR TO THE REMOVAL OF ANY EXISTING SYSTEM COMPONENTS AND CONNECTING NEW SYSTEMS TO EXISTING.
- THESE DRAWINGS HAVE BEEN MADE BASED ON A VISUAL INSPECTION OF THE EXISTING SURFACES. SOME ASSUMPTIONS HAVE BEEN MADE AS TO ACTUAL CONSTRUCTION, MATERIALS, AND METHODS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL FIELD CONDITIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, CONFLICTS, AND UNFORESEEN CONDITIONS. IN ADDITION, THESE DRAWINGS ASSUME THAT ALL EXISTING MATERIALS ARE IN GOOD STRUCTURAL SHAPE, GOOD WORKING ORDER, AND MEET ALL APPLICABLE CODES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSPECTION OF ALL EXISTING STRUCTURAL ELEMENTS AND SHALL REPORT TO THE CLIENT AND ARCHITECT ANY SIGNS OF POTENTIAL PROBLEMS WITH THE STRUCTURE INCLUDING, BUT NOT LIMITED TO, WOOD DECAYING ORGANISMS, WATER PENETRATION, STRUCTURAL FRACTURES, STRESSED SURFACES, BRICK AND MASONRY WEAKENING AND WEAK STRUCTURAL CONNECTIONS.
- THE CONTRACTOR SHALL PREPARE FULLY DIMENSIONED FIELD INSTALLATION DRAWINGS AS OUTLINED BELOW. THESE DRAWINGS SHALL BE FORWARDED TO ALL CONTRACTORS. EACH CONTRACTOR SHALL SUBSEQUENTLY IN SUCCESSION DELINEATE THEIR RESPECTIVE WORK ON THESE COORDINATION DRAWINGS. WHEN ALL WORK HAS BEEN PROPERLY SHOWN ON THE COORDINATION DRAWINGS, AND ALL CONTRACTORS AGREE THAT THEIR RESPECTIVE WORK CAN BE INSTALLED AND SHALL PROPERLY FIT TOGETHER, THEY SHALL SO ACKNOWLEDGE BY ENDORSING THE DRAWING(S). ANY WORK DONE PRIOR TO COMPLETION OF ABOVE COORDINATION PROCESS FOUND IN CONFLICT SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.



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SHEET CONTENTS:

MECHANICAL COVERSHEET

PROJECT TITLE:

ATLANTIC CITY CONVENTION CENTER TRADE SHOP DEVELOPMENT

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

06.17.2026 ISSUED FOR BID

DATE REVISIONS REV

Date 05.01.26

Scale AS NOTED

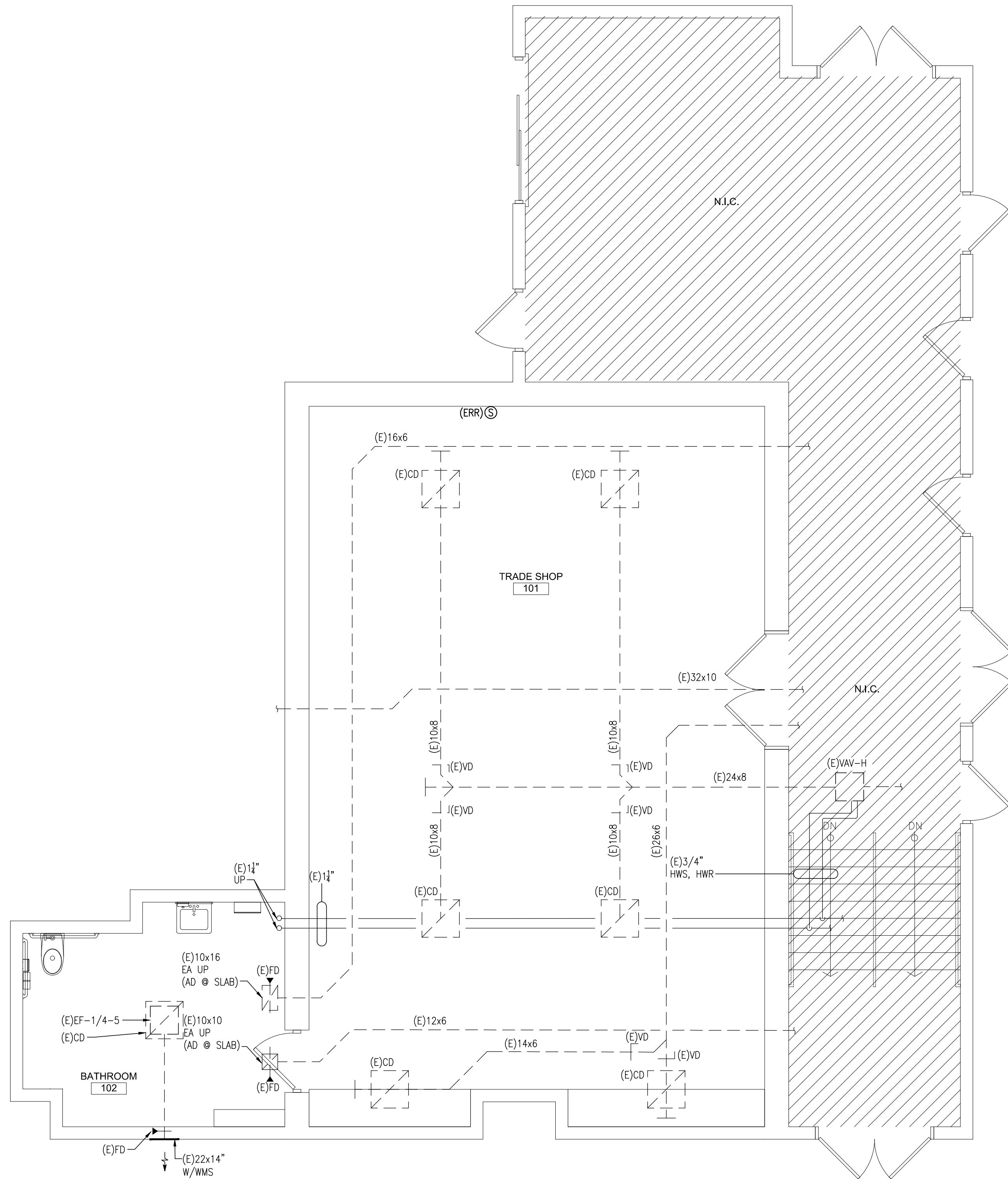
Drawn by RNV

Checked by JAM

Job No. 25150

Drawing No.

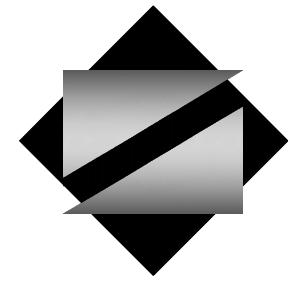
M-000



01 MECHANICAL FIRST FLOOR PLAN — DEMOLITION
SCALE: 1/4" = 1'-0"

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
2. THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
3. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION. PATCH ALL EXISTING INTERIOR AND EXTERIOR WALLS, LEFT BY DEMOLITION, TO MATCH EXISTING.
4. THE CONTRACTOR SHALL REMOVE ALL DUCTWORK AND PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING DUCTWORK AND/OR PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS AS REQUIRED.
5. ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
6. PORTIONS OF DUCTWORK AND PIPING TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
7. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL BE DISPOSED OF BY THE MECHANICAL CONTRACTOR.
8. ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
9. THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.
10. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL STATE & LOCAL REQUIREMENTS REGARDING DISPOSAL OF REFRIGERANTS.
11. CONTRACTOR SHALL CLEAN THE EXISTING ROOFTOP UNITS, COILS, FANS, ETC. SO THAT EQUIPMENT IS IN PROPER WORKING CONDITION. REPLACE ALL AIR FILTERS AND BELTS, ADJUST BELTS AS REQUIRED. VERIFY PROPER REFRIGERANT CHARGE AND PROVIDE ADDITIONAL AS REQUIRED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
12. PRIOR TO ANY DEMOLITION, CONTRACTOR SHALL PROVIDE AN AIR BALANCING REPORT, TO ARCHITECT/ENGINEER, INCLUDING AIRFLOWS AT MAINS FOR THE SUPPLY, RETURN AND OUTSIDE AIR OF ALL EXISTING AIR HANDLING UNITS AND FANS. ADDITIONALLY, PROVIDE AIRFLOW MEASUREMENTS AT ALL EXISTING GRILLES, DIFFUSERS AND REGISTERS ASSOCIATED WITH EXISTING SYSTEMS.



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SHEET CONTENTS:

MECHANICAL
FIRST FLOOR PLAN
DEMOLITION

PROJECT TITLE:

ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

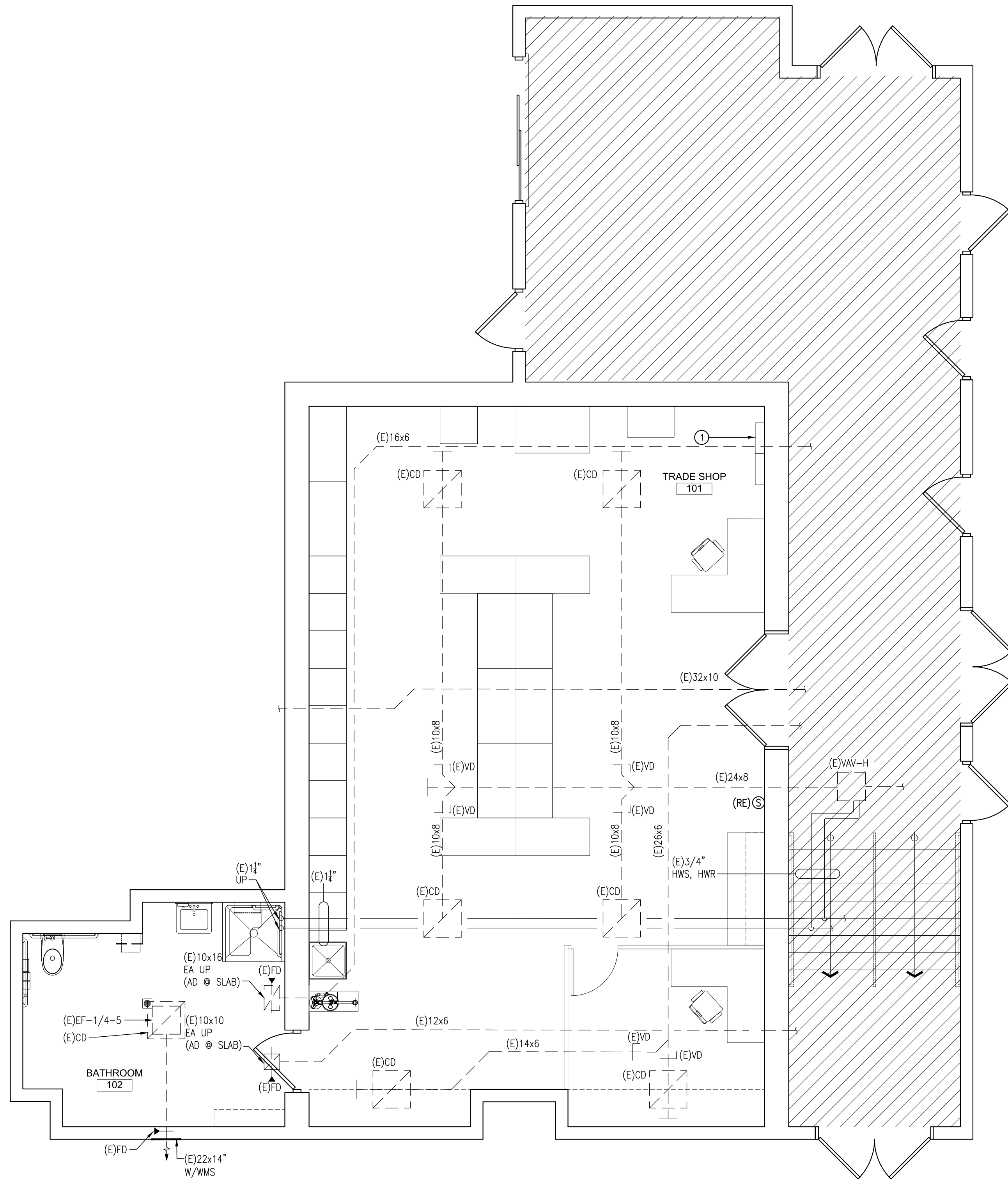
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M-100

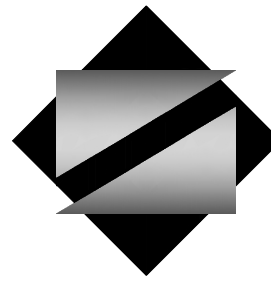


DRAWING NOTES:

- DRAWINGS ARE DIAGRAMMATIC. PROVIDE ADDITIONAL OFFSETS, TRANSITIONS, ETC. AS REQUIRED TO AVOID INTERFERENCES ENCOUNTERED.
- CONTRACTOR SHALL PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AND ACCESS TO ALL EQUIPMENT. COORDINATE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS.
- SPACE ABOVE CEILING IS VERY LIMITED. COORDINATE WITH ALL TRADES FOR DUCTWORK ROUTING PRIOR TO FABRICATION AND INSTALLATION.
- ALL TOILET, KITCHEN, AND BATHROOM EXHAUST SHALL TERMINATE ON EXTERIOR A MINIMUM OF 3 FEET FROM ALL OPERABLE WINDOWS AND OTHER OPENINGS TO BUILDINGS AND 10 FEET FROM MECHANICAL INTAKES.

KEY NOTES:

- RELOCATED BMS SYSTEM. PROVIDE ALL COMMUNICATION WIRING, RELAYS, TRANSFORMERS AND OTHER REQUIREMENTS FOR A FULLY OPERATIONAL SYSTEM.



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SHEET CONTENTS:

MECHANICAL
FIRST FLOOR PLAN
NEW WORK

PROJECT TITLE:

ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT
1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

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01 MECHANICAL FIRST FLOOR PLAN — NEW WORK
SCALE: 1/4" = 1'-0"

- HVAC SPECIFICATIONS
1. GENERAL
- A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.
- B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
- C. INVESTIGATE EACH SPACE THOROUGHLY WHERE EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
- D. DUCTWORK AND PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ARCHITECT. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED.
- E. SUPPORT ALL DUCTWORK AND PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OR SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING. INSERTS SHALL BE STEEL, SLOTTED TYPE AND FACTORY PAINTED. SINGLE ROD SHALL BE SIMILAR TO GRINNELL FIG. 281. MULTI-ROD SHALL BE SIMILAR TO FEE & MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS. MAXIMUM LOADING INCLUDING PIPES, DUCTWORK CONTENTS AND COVERING SHALL NOT EXCEED 75 PERCENT OF RATED INSERT CAPABILITY. WHEN SUPPORTING FROM BUILDING USE BEAM CLAMPS IN APPROVED MANNER. PROVIDE SEISMIC RESTRAINTS AS REQUIRED BY CODE.
- F. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES, WHICH INVOLVE EXTRA COST, SHALL NOT BE MADE WITHOUT APPROVAL.
- G. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP THE WORK PROPOSAL.
- H. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER. RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ARCHITECT.
- I. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
- J. SEAL OPENINGS AROUND DUCTS AND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH MINERAL WOOL OR OTHER NONCOMBUSTIBLE MATERIAL.
- K. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, LOUVERS, CONDUIT, AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AND DUNNAGE STEEL AS REQUIRED.
- L. ALL PRESENT MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.
- M. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- N. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OCCUPANTS.
- O. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PRECATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
- P. UNLESS OTHERWISE SPECIFICALLY SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
- Q. REMOVABLE ACCESS TILE AND/OR ACCESS DOOR ARE REQUIRED IN HUNG CEILINGS, SHAFTS AND WALLS FOR ALL VOLUME AND FIRE DAMPERS, AUTOMATIC DAMPERS AND ALL OTHER MECHANICAL EQUIPMENT AND DEVICES. HVAC CONTRACTOR TO FURNISH ACCESS LOCATION REQUIREMENTS TO GENERAL CONTRACTOR.
- R. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- S. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR; EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING DUCTWORK, PIPING (SIZES, CLEARANCES, ETC) AND CONDITIONS.
- T. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
- U. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
- V. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.
- W. DEFINITIONS
- 1) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
- 2) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
- 3) "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

- 4) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.

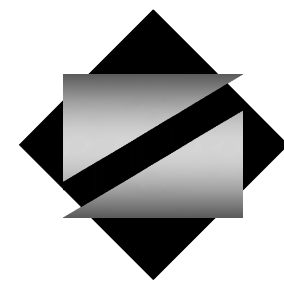
- 11) EXAMINE AUTOMATIC TEMPERATURE SYSTEM COMPONENTS TO VERIFY THE FOLLOWING:
- DAMPERS, VALVES, AND OTHER CONTROLLED DEVICES ARE OPERATED BY THE INTENDED CONTROLLER.
 - DAMPERS AND VALVES ARE IN THE POSITION INDICATED BY THE CONTROLLER.
 - INTEGRITY OF VALVES AND DAMPERS FOR FREE AND FULL OPERATION AND FOR TIGHTNESS OF FULLY CLOSED AND FULLY OPEN POSITIONS.
 - THERMOSTATS AND HUMIDISTATS ARE LOCATED TO AVOID ADVERSE EFFECTS OF SUNLIGHT, DRAFTS, AND COLD WALLS.
 - SENSORS ARE LOCATED TO SENSE ONLY THE INTENDED CONDITIONS.
 - SEQUENCE OF OPERATION FOR CONTROL MODES IS ACCORDING TO THE CONTRACT DOCUMENTS.
 - CONTROLLER SET POINTS ARE SET AT INDICATED VALUES.
 - INTERLOCKED SYSTEMS ARE OPERATING.
 - CHANGEOVER FROM HEATING TO COOLING MODE OCCURS ACCORDING TO INDICATED VALUES.
- 12) REPORT DEFICIENCIES DISCOVERED BEFORE AND DURING PERFORMANCE OF TAB PROCEDURES. OBSERVE AND RECORD SYSTEM REACTIONS TO CHANGES IN CONDITIONS. RECORD DEFAULT SET POINTS IF DIFFERENT FROM INDICATED VALUES.
9. INSULATION – GENERAL REQUIREMENTS
- A. ALL INSULATION MATERIALS, INCLUDING JACKETS, FACING, ADHESIVE, COATINGS, AND ACCESSORIES ARE TO BE FIRE HAZARD RATED AND LISTED BY UNDERWRITERS LABORATORIES, INC. USING STEINER TUNNEL TEST METHOD FOR FIRE HAZARD CLASSIFICATION OF BUILDING MATERIALS, STANDARD UL 723 (ASTM E-84), (ASA A2.5-1963). FLAMESREAD MAXIMUM IS 25 AND FUEL CONTRIBUTED AND SMOKE DEVELOPED MAXIMUM IS 50. FLAMEPROOFING TREATMENTS SUBJECT TO DETERIORATION FROM MOISTURE OR HUMIDITY ARE NOT ACCEPTABLE.
- B. DEFINITIONS
- EXPOSED: INDOOR DUCTS, PIPING OR EQUIPMENT LOCATED IN MECHANICAL EQUIPMENT ROOMS AND IN AREAS, WHICH WILL BE VISIBLE WITHOUT REMOVING CEILINGS OR OPENING ACCESS PANELS.
 - CONCEALED: INDOOR DUCTS, PIPING OR EQUIPMENT, WHICH IS NOT EXPOSED.
 - OUTDOOR: DUCTS, PIPING OR EQUIPMENT, WHICH IS EXPOSED TO THE WEATHER.
10. DUCTWORK INSULATION
- A. INSULATE ALL NEW DUCTWORK IN ACCORDANCE WITH INSULATION SCHEDULE EXCEPT AS OTHERWISE NOTED.
- 1) DUCTWORK INSULATION SCHEDULE
- CONDITIONED SPACES: CONCEALED SUPPLY/ OUTSIDE AIR SHALL BE 1.5 IN., TYPE D-1 WITH VAPORSEAL.
 - UNCONDITIONED SPACES: CONCEALED SUPPLY/ RETURN/ OUTSIDE AIR SHALL BE 2.5 IN., TYPE D-1 WITH VAPORSEAL. MINIMUM R-VALUE OF 6.
 - EXPOSED AND UNCONDITIONED SPACES (INCLUDING MECHANICAL EQUIPMENT ROOMS): SUPPLY/RETURN/OUTSIDE AIR SHALL BE 1.5 IN., TYPE D-2 WITH VAPORSEAL. MINIMUM R-VALUE OF 6.
 - OUTSIDE THE BUILDING ENVELOPE: SUPPLY/RETURN/OUTSIDE AIR SHALL BE 2 IN., TYPE D-2 WITH VAPORSEAL. MINIMUM R-VALUE OF 8.
 - INSTALLED OUTDOORS: SUPPLY/RETURN/OUTSIDE AIR SHALL BE 2 IN., TYPE D-3 WITH VAPORSEAL. MINIMUM R-VALUE OF 8.
- 2) BUBBLE TYPE-WRAP INSULATION SHALL NOT BE ACCEPTED AS AN APPROVED EQUAL.
- B. REINSULATE ALL DUCTWORK AND PIPING, WHICH IS EXISTING AND DAMAGED DURING CONSTRUCTION OR SHOWN OR REQUIRED TO BE RELOCATED. INSULATE WITH SAME MATERIAL AND THICKNESS.
- C. NON-INSULATED DUCTWORK
- WHERE SOUNDING/IN IS OF MINIMUM THICKNESS AND R-VALUE SPECIFIED FOR INSULATION.
 - AIR CONDITIONING RETURN AIR DUCTWORK EXPOSED IN AIR-CONDITIONED SPACES AND INSTALLED IN HUNG CEILINGS WHERE SPACE IMMEDIATELY ABOVE AND BELOW ARE BOTH AIR CONDITIONED.
- D. DOUBLED WALLED LINED INSULATION WITH INNER WALL PERFORATED DUCTWORK
- INDOOR SUPPLY DUCTWORK FOR ALL OPEN CEILING AREAS.
- E. MATERIAL
- TYPE D-1: MINIMUM 0.75-LB DENSITY FIBERGLASS BLANKET WITH FACTORY-APPLIED FOIL SKRIM-KRAFT FACING SIMILAR TO JOHNS MANVILLE MICROLUTE FSK.
 - TYPE D-2: MINIMUM 3.0-LB DENSITY FIBERGLASS BOARD. THE INSULATION SHALL BE PROVIDED WITH A FACTORY-APPLIED ALL-PURPOSE OR ALL SERVICE FACING SIMILAR TO JOHNS MANVILLE JOHNS MANVILLE TYPE 814 SPIN-GLAS AP.
 - TYPE D-3: MINIMUM 6 LB FIBERGLASS BOARD WITH FACTORY APPLIED ALL-PURPOSE OR ALL SERVICE FACING. SIMILAR TO JOHNS MANVILLE 817 SPIN-GLAS AP. EXTERIOR/OUTDOOR DUCTWORK WITH FACTORY PAINTED ALUMINUM CORRUGATED JACKET WITH 0.75-IN. STAINLESS STEEL BANDS AND 1-MIL THICK POLYETHYLENE AND KRAFT PAPER MOISTURE BARRIER. PROVIDE ADHESIVE AND VAPOR RETARDER MASTIC PER MANUFACTURER'S RECOMMENDATIONS.
- F. INSTALLATION
- FIBERGLASS BLANKET: 2 IN. LAP STRIPS AT ALL SEAMS. SECURE BOTTOM OF ALL DUCTS OVER 24 IN. WIDE WITH MIN. 2 ROWS OF WELD PINS 12 IN. ON CENTER. SECURE ALL SEAMS WITH FOIL VAPOR BARRIER TAPE AND VAPORSEAL ADHESIVE.
 - FIBERGLASS BOARD: SEAL JOINTS AND BREAKS IN FACING WITH 3 IN. WIDE TAPE TO MATCH FACING AND ADHERE WITH VAPOR SEAL ADHESIVE. APPLY 5 IN. WIDE TAPE AT CORNERS; WELD PINS ON TOP, SIDES AND BOTTOM.
11. PIPING INSULATION
- A. INSULATE ALL NEW PIPING IN ACCORDANCE WITH INSULATION SCHEDULE EXCEPT AS OTHERWISE NOTED.

- 1) PIPING INSULATION SCHEDULE
- LOW TEMP 40 TO 100 DEGREES F, UP TO 4 IN., SHALL BE 1-IN. THICK, TYPE P-1 WITH VAPORSEAL.
 - LOW TEMP FITTINGS & VALVES 40 TO 100 DEGREES F, UP TO 4-IN., SHALL BE 1-IN. THICK, TYPE P-4 WITH VAPORSEAL AND F-1 FINISH.
 - ALL REFRIGERANT LIQUID & SUCTION LINES SHALL BE ½-IN. THICK, TYPE P-6 WITH VAPORSEAL.
12. PIPING, VALVES AND FITTINGS TO BE INSULATED
- A. LOW TEMPERATURE PIPING SYSTEMS – 40 TO 100 F INCLUDING:
- CONDENSATE DRAIN PIPING.
- B. MATERIAL
- TYPE P-1: MINIMUM 4 LB DENSITY MOLDED FIBERGLASS, MAXIMUM 0.23 K-FACTOR AT 75 DEGREES F MEAN TEMPERATURE WITH FACTORY-APPLIED FIRE-RETARDANT FOIL-SKRIM-KRAFT FACING. ALL SERVICE JACKET. SIMILAR TO JOHNS MANVILLE MICRO-LOK HP.
 - TYPE P-4: MINIMUM 1 LB DENSITY FIBERGLASS FITTING INSERTS, MAXIMUM 0.28 K-FACTOR AT 75 DEGREES F MEAN TEMPERATURE SIMILAR TO MANVILLE HI-LO TEMP INSULATION INSERTS
 - TYPE P-6: MINIMUM 6 LB MOLDED FOAMED PLASTIC. MAXIMUM 0.27 K-FACTOR AT 75 DEGREES F MEAN TEMPERATURE. MAXIMUM 0.17 PERMEANCE. SIMILAR TO ARMSTRONG ARMAFLEX II FOR INTERIOR SEALED BEHIND FINISHED SURFACES AND ARMSTRONG ARMAFLEX SHIELD FOR EXTERIOR (OUTSIDE) AND EXPOSED WITHIN BUILDING AND SPACES.
- C. FINISH
- TYPE F-1: FITTING COVER, MOLDED WHITE PVC JACKET, UL CLASS 1, MAXIMUM PERMEANCE 0.05 SIMILAR TO MANVILLE ZESTRON.
 - TYPE F-2: WHITE VAPOR BARRIER COATING WITH 10X10 OR 20X20 MESH WHITE GLASS, POLYESTER OR NYLON CLOTH REINFORCING MEMBRANE, MINIMUM 31 MIL DRY FILM THICKNESS, SIMILAR TO FOSTER TITE-FIT, UL LABEL.
 - TYPE F-4: ALUMINUM JACKETING WITH MINIMUM 0.016 IN. WALL THICKNESS AND LONGITUDINAL JOINTS WITH LOCK SEAMS.
- D. OUTDOOR PIPING
- FOR ALL PIPING, FITTINGS AND VALVES LOCATED OUTDOORS INCREASE SCHEDULED INSULATION THICKNESS BY A MINIMUM OF 1 IN. AND PROVIDE F-4 FINISH. PROVIDE VAPORSEAL ON ALL OUTDOOR PIPES, VALVES AND FITTINGS SUBJECT TO CONDENSATION.
- E. INSTALLATION
- BEFORE APPLYING INSULATION, ALL PRESSURE AND LEAK TESTS SHALL BE COMPLETED AND APPROVED.
 - ALL INSULATION SHALL BE BUTTED FIRMLY TOGETHER. PROVIDE 2 IN. LAP STRIPS AT ALL SEAMS SECURED WITH ADHESIVE. USE VAPOR BARRIER TAPE AND VAPORSEAL ADHESIVE WHERE REQUIRED. STAPLES NOT PERMITTED. REFRIGERANT PIPING INSULATION SHALL HAVE MITERED FITTINGS.
 - ALL INSULATION AND VAPOR BARRIERS SHALL BE CONTINUOUS PASSING THROUGH SLEEVES, HANGERS, ETC., OR OTHER OPENINGS. PROVIDE SADDLES OR SHIELDS FOR PROTECTION.
 - INSULATION FOR STRAINERS OR OTHER FITTINGS OR ACCESSORIES REQUIRING SERVICING OR INSPECTION SHALL HAVE INSULATION REMOVABLE AND REPLACEABLE WITHOUT DAMAGE.
13. VIBRATION ISOLATION, WIND AND SEISMIC RESTRAINTS
- A. GENERAL
- PROVIDE ISOLATION FOR EQUIPMENT, PIPING AND DUCTWORK.
 - INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - PROVIDE LEVELING DEVICES AND APPROVED RESILIENT RESTRAINING DEVICES AS REQUIRED TO LIMIT EQUIPMENT AND PIPING MOTION IN EXCESS OF 1/4 IN.
 - ACCEPTABLE MANUFACTURERS
- MASON INDUSTRIES, INC.
 - VIBRATION ELIMINATOR CO.
 - KORFUND DYNAMICS CORP.
- B. CEILING-HUNG FANS AND EQUIPMENT
- PROVIDE SPRING HANGER ROD ISOLATORS. STEEL COMPRESSION SPRING AND NEOPRENE SOUND PAD WITHIN A STEEL RETAINER BOX. SIMILAR TO MASON TYPE PCHS.
 - 1 IN. MINIMUM STATIC DEFLECTION. 1/2 IN. MINIMUM RESERVE DEFLECTION. FACTORY-PRELOADED TO 75 PERCENT OF RATED LOAD.
 - PROVIDE SUPPLEMENTAL STEEL AS REQUIRED WHERE EQUIPMENT OR STRUCTURE CANNOT SUPPORT POINT LOADS.
- C. SEISMIC RESTRAINTS
- PROVIDE SEISMIC RESTRAINTS FOR ALL MECHANICAL EQUIPMENT AS REQUIRED BY CODE. SEISMIC RESTRAINTS SHALL BE CAPABLE OF SAFELY ACCEPTING EXTERNAL FORCES AS REQUIRED BY CODE WITHOUT FAILURE, AND SHALL MAINTAIN EQUIPMENT, PIPING, CONDUIT, DUCT AND PRESSURE REDUCING BOXES IN A CAPTIVE POSITION. SEISMIC RESTRAINTS SHALL NOT SHORT CIRCUIT ISOLATION SYSTEMS OR TRANSMIT OBJECTIONABLE VIBRATION OR NOISE AND SHALL BE PROVIDED ON ALL EQUIPMENT SCHEDULED ON DRAWINGS.
- D. WIND RESTRAINTS
- ALL ROOF AND GROUND MOUNTED EQUIPMENT SHALL BE FASTENED TO STRUCTURE OR BASE PER MANUFACTURERS MOUNTING RECOMMENDATIONS. PROVIDE INSTALLATION DETAILS SIGNED BY LICENSED PROFESSIONAL STRUCTURAL ENGINEER TO MEET ASCE-7 MPH WIND LOADING.
14. PIPING – GENERAL REQUIREMENTS
- A. COMPLETE WITH PIPE, FITTINGS, VALVES, STRAINERS, MOTORIZED VALVE OPERATORS, STRAINERS, HANGERS, SUPPORTS, GUIDE, SLEEVES, AND

- ACCESSORIES.
- B. ALL ITEMS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES AND STANDARDS.
- AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME).
 - AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
 - MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTING INDUSTRY (MSS).
- C. ALL PRESSURIZED PIPING TO BE TESTED HYDROSTATICALLY TO 150 PSI OR 150 PERCENT OF OPERATING PRESSURE, WHICHEVER IS GREATER, BUT NEVER EXCEED TEST PRESSURE ANSI B16.1 BASIS. TEST DURATION TO BE 2 HOURS WITH NO PRESSURE CHANGE CORRECTED FOR TEMPERATURE CHANGE. REPAIR OR REPLACE LEAKS OR DEFECTS WITHOUT ADDITIONAL COST.
- D. PROVIDE DIELECTRIC FITTINGS WHERE DISSIMILAR METALS ARE TO BE JOINED.
- E. PIPE SUPPORTS.
- PROVIDE ADEQUATE SUPPORT FOR PIPE AND CONTENTS TO PREVENT SAGGING, VIBRATION, OR SWAYING AND ALLOW FOR EXPANSION AND CONTRACTION. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED WHERE STRUCTURE CANNOT SUPPORT POINT LOADS.
 - HORIZONTAL PIPING TO BE SUPPORTED BY FORGED STEEL ADJUSTABLE CLEVIS TYPE HANGER. MAXIMUM SPACING AS FOLLOWS:
- STEEL 1 IN. AND SMALLER: 7 FT.
 - STEEL 1-1/4 IN. AND LARGER: 10 FT.
 - COPPER 3 IN. AND SMALLER: 7 FT.
- ADDITIONAL SUPPORTS AT CHANGES IN DIRECTION, RUNOUTS, AND CONCENTRATED LOADS DUE TO VALVES, ETC.
 - ADDITIONAL SUPPORTS AT CHANGES IN DIRECTION, RUNOUTS, AND CONCENTRATED LOADS DUE TO VALVES, ETC.
- 3) VERTICAL PIPING.
- BASE ELBOW SUPPORT WITH BEARING PLATE ON STRUCTURAL SUPPORT.
 - GUIDES AT EVERY SECOND FLOOR (SPACING NOT TO EXCEED 25 FT.).
 - TOP SUPPORT HANGER OR SADDLE IN HORIZONTAL CONNECTION WITH PROVISIONS FOR EXPANSION.
 - INTERMEDIATE STEEL RISER CLAMP SUPPORT BOLTED AND WELDED TO PIPE BEARING ON STRUCTURAL STEEL OR BEARING PLATE AT FLOOR.
15. CONDENSATE DRAIN PIPING
- A. PIPE: ASTM B88, HARD DRAWN COPPER TUBING TYPE "L".
- B. FITTINGS: SOLDERED JOINT FITTINGS, 95/5 SOLDER.
- C. PITCH, EXCEPT AS NOTED.
- 1 IN. IN 4 FT. PREFERRED.
 - 1 IN. IN 8 FT. MINIMUM.
- D. SWING CHECK VALVES: AT CONDENSATE PUMP DISCHARGE. 300 LB WOG, BRONZE BODY SOLDER ENDS, REGRIND BRONZE DISC TO BE USED WITH COPPER TUBING. JENKINS FIG. 1222.
16. REFRIGERANT PIPING
- PIPE: COPPER ACR IN ACCORDANCE WITH ASTM B280.
 - FITTINGS: WROUGHT COPPER WITH SILVER BRAZING ALLOY SOLDER SIMILAR TO HANDY AND HARMAN EASY-FLO.
 - INSTALL REFRIGERANT PIPING ACCORDING TO ASHRAE 15.
 - INSTALL PIPING AS SHORT AND DIRECT AS POSSIBLE, WITH A MINIMUM NUMBER OF JOINTS, ELBOWS, AND FITTINGS.
 - INSTALL PIPING WITH ADEQUATE CLEARANCE BETWEEN PIPE AND ADJACENT WALLS AND HANGERS OR BETWEEN PIPES FOR INSULATION INSTALLATION. USE SLEEVES THROUGH FLOORS, WALLS, OR CEILINGS, SIZED TO PERMIT INSTALLATION OF FULL-THICKNESS INSULATION.
 - SLOPE REFRIGERANT PIPING AS FOLLOWS:
- INSTALL HORIZONTAL HOT-GAS DISCHARGE PIPING WITH A UNIFORM SLOPE DOWNWARD AWAY FROM COMPRESSOR.
 - INSTALL HORIZONTAL SUCTION LINES WITH A UNIFORM SLOPE DOWNWARD TO COMPRESSOR.
 - INSTALL TRAPS AND DOUBLE RISERS TO ENTRAIN OIL IN VERTICAL RUNS.
 - LIQUID LINES MAY BE INSTALLED LEVEL.
- INSTALL UNIONS TO ALLOW REMOVAL OF SOLENOID VALVES, PRESSURE-REGULATING VALVES, AND EXPANSION VALVES AND AT CONNECTIONS TO COMPRESSORS AND EVAPORATORS.
 - INSTALL HANGERS FOR COPPER TUBING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:
- NPS 1/2: MAXIMUM SPAN, 60 INCHES; MINIMUM ROD SIZE, 1/4 INCH.
 - NPS 5/8: MAXIMUM SPAN, 60 INCHES; MINIMUM ROD SIZE, 1/4 INCH.
 - NPS 1: MAXIMUM SPAN, 72 INCHES; MINIMUM ROD SIZE, 1/4 INCH.
 - NPS 1-1/4: MAXIMUM SPAN, 96 INCHES; MINIMUM ROD SIZE, 3/8 INCH.
 - NPS 1-1/2: MAXIMUM SPAN, 96 INCHES; MINIMUM ROD SIZE, 3/8 INCH.
- CHARGE SYSTEM USING THE FOLLOWING PROCEDURES:
- INSTALL CORE IN FILTER-DRYER AFTER LEAK TEST BUT BEFORE EVACUATION.
 - EVACUATE ENTIRE REFRIGERANT SYSTEM WITH A VACUUM PUMP TO A VACUUM OF 500 MICROMETERS. IF VACUUM HOLDS FOR 12 HOURS, SYSTEM IS READY FOR CHARGING.
 - BREAK VACUUM WITH REFRIGERANT GAS, ALLOWING PRESSURE TO BUILD UP TO 2 PSIG.
 - CHARGE SYSTEM WITH A NEW FILTER-DRYER CORE IN CHARGING LINE.

- PROVIDE FULL-OPERATING CHARGE.
17. MOTORS
- A. MOTORS (UNDER HVAC WORK): IN ACCORDANCE WITH NEMA, IEEE AND ANSI C 50 STANDARDS.
- STANDARD EFFICIENCY UNLESS OTHERWISE NOTED.
 - 1.15 SERVICE FACTOR.
 - SQUIRREL CAGE INDUCTION; OPEN DRIP-PROOF TYPE, 1750 RPM, NEMA TYPE B INSULATION CLASS AND CONTINUOUS DUTY, EXCEPT AS NOTED.
18. MOTOR CONTROLLERS
- A. PROVIDED BY HVAC CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- B. NEMA ENCLOSURE, WEATHERPROOF WHERE MOUNTED OUTDOORS.
- C. WITH OVERLOAD PROTECTION. COORDINATE ALL MOTOR CONTROLLER TYPES AND SIZES WITH MOTOR TYPES AND SIZES.
- D. 1/3 HP AND SMALLER: PROVIDE MANUAL STARTER EXCEPT USE MAGNETIC TYPE WHERE AUTOMATICALLY CONTROLLED.
- MANUAL TYPE: 2-POLE TOGGLE SWITCH WITH OVERLOAD PROTECTION AND PILOT LIGHT.
- E. 1/2 HP AND LARGER: PROVIDE MAGNETIC STARTER.
- COMBINATION UNFUSED DISCONNECT SWITCH AND MAGNETIC STARTER EXCEPT AS NOTED.
 - OVERLOAD PROTECTION IN EACH PHASE LEG WITH RESET IN ENCLOSURE.
 - HOA SELECTOR SWITCH FOR AUTOMATICALLY OPERATED MOTORS. SAFETY CONTROLS COMMON TO BOTH CONTROLS.
 - RED, GREEN AND AMBER PILOT LIGHTS.
 - SWITCHES: HORSE-POWER-RATED, EXTERNAL PADLOCKING TYPE.
 - HOLDING COILS: 10 WATT, 120 VOLT.
 - CONTACTS: MAIN LINE AND MINIMUM (2) – NORMALLY OPEN, (2) – NORMALLY CLOSED 10 AMP AUXILIARIES, IN ADDITION TO CONTACTS REQUIRED FOR CONTROLS SPECIFIED.
 - CONTROL TRANSFORMER: FOR MOTORS OVER 120 VOLTS, TO STEP DOWN CONTROL VOLTAGE TO 120 VOLTS; OF THE REQUIRED CAPACITY, WITH FUSE AND GROUND CONNECTION ON VOLTAGE SIDE.
 - FUSES: SIMILAR TO BUSSMAN.
 - RELAYS TO SUPPLEMENT AUXILIARY CONTACTS IN CONTROLLER. MINIMUM 10-WATT COIL AND TWO 10 AMP CONTACTS.
- 11) TERMINALS: SUITABLE FOR CONDUCTORS NOTED AND AS APPROVED.
- F. ACCEPTABLE MANUFACTURERS
- CUTLER-HAMMER.
 - SQUARE D.
 - ALLEN BRADLEY.
19. EQUIPMENT
- A. FANS
- GENERAL (APPLIES TO ALL FAN TYPES EXCEPT AS NOTED).
- PROVIDE CENTRIFUGAL TYPE, NON-OVERLOADING DESIGN EXCEPT AS NOTED WITH MINIMUM CAPACITIES AS NOTED AND WITH CERTIFIED RATINGS BY AMCA. WHEEL SHALL BE FACTORY-BALANCED STATICALLY AND DYNAMICALLY. BRAKE HORSEPOWER RATINGS SHALL NOT BE MORE THAN 5 PERCENT ABOVE WHAT IS NOTED ON DRAWINGS. DRIVES SHALL BE MATCHED, MULTIPLE V-BELT DRIVE UNLESS OTHERWISE NOTED WITH MINIMUM CAPACITY OF 1.4 TIMES RATED MOTOR HP. PULLEYS SHALL BE CAST IRON.
 - MOTOR PULLEY SHALL BE VARIABLE PITCH DIAMETER EXCEPT FANS WITH VARIABLE INLET VANES. SUPPLY AND INSTALL ONE FIXED PITCH PULLEY CHARGE AS REQUIRED PER FAN TO BALANCE SYSTEMS. COMPANION SHEAVES SHALL MAINTAIN BELTS PARALLEL. BELT GUARDS SHALL BE IN COMPLIANCE WITH OSHA REGULATIONS AND WITH TACHOMETER OPENING FOR FAN SPEED MEASUREMENTS. MANUFACTURER SHALL PROVIDE REPLACEMENT FIXED PITCHED SHEAVES WHERE NEEDED TO BALANCE SYSTEM.
 - PROVIDE REMOVABLE FLANGED SCREENS AT INLETS OR OUTLETS WHERE NO CONNECTING DUCTWORK IS INDICATED.
 - BEARINGS BALL ROLLER OR TAPER. PROVIDE PRESSURE TYPE LUBRICATING FITTINGS WITH PRESSURE RELIEF FITTINGS EXTENDED TO ACCESSIBLE LOCATIONS. MINIMUM L-10 LIFE RATING; 50,000 HOURS PER ABMA STANDARD B-10 OR 250,000 HOURS AVERAGE (B-50) LIFE AT MAXIMUM CATALOG RATING.
- CABINET FANS SHALL HAVE ACOUSTICALLY INSULATED GALVANIZED STEEL FAN HOUSING, DIRECT DRIVEN CENTRIFUGAL FAN (S), INTERNAL VIBRATION ISOLATION, INTEGRAL LOUVERED FACE GRILLE WITH LIGHT, AND OUTLET DUCT CONNECTION WITH SELF-ACTING BACKDRAFT DAMPER. PROVIDE WALL VENTS OR ROOF CAPS AS REQUIRED ON PLANS. FANS SHALL BE SIMILAR TO GREENHECK SP.
- B. ELECTRICAL HEATERS
- CABINET HEATERS SHALL BE RECESSED, BLOW THROUGH TYPE, WITH DIRECT DRIVEN DOUBLE INLET FORWARD CURVED CENTRIFUGAL FANS, TWO SPEED PERMANENT SPLIT CAPACITOR MOTOR WITH OVERLOAD PROTECTION, 16 GAUGE FURNITURE QUALITY STEEL INTERNAL INSULATED, INLET AND OUTLET DISCHARGE GRILLES, HEATING FINS AND THROW-AWAY TYPE FILTERS.
 - PROVIDE UNITS WITH ELECTRIC THERMOSTAT WITH CAPILLARY TUBES INTEGRALLY MOUNTED IN CABINET WITH OVERHEAT CUT OUT. BULB AND CAPILLARY TYPE THERMOSTAT SHALL SENSE TEMPERATURE ALONG ENTIRE LENGTH OF HEATING ELEMENT. PROVIDE A MANUAL 2-SPEED SWITCH, FAN DELAY SWITCH AND HIGH LIMIT THERMAL CUTOFF AUTOMATIC RESET TYPE, WIRED TO EACH HEATING ELEMENT.

- BASEBOARD HEATERS SHALL BE WALL MOUNTED DESIGN. EPOXY/POWDER COATED STEEL BODY AND PANEL WITH STAINLESS STEEL ELEMENTS AND ALUMINUM FINS.
- C. DUCTLESS & DUCTED AIR-COOLED SPLIT SYSTEM AIR CONDITIONING/HEAT PUMP UNITS
- PROVIDE DUCTLESS AIR-COOLED SPLIT SYSTEM AIR CONDITIONING/HEAT PUMP UNITS CONSISTING OF WALL OR CEILING CASSETTE FAN/EVAPORATOR COIL UNITS, REMOTE OUTDOOR AIR-COOLED CONDENSING UNIT, INTERCONNECTED REFRIGERANT PIPING AND REMOTE WALL MOUNTED MICROPROCESSOR BASED WIRED THERMOSTAT.
 - INDOOR FAN COIL SHALL BE WALL MOUNTED.
 - DUCTED INDOOR FANCOIL SHALL BE CONCEALED LOW PROFILE TYPE WITH FILTER BANK AND 2" FILTER.
 - INDOOR FAN/COIL UNIT SHALL INCLUDE AN INTEGRAL INTERNAL CONDENSATE PUMP.
 - SYSTEM SHALL BE CAPABLE OF OPERATION DOWN TO 0 DEGREES F (LOW AMBIENT) AND SHALL BE PROVIDED WITH ALL NECESSARY CONTROLS, OPTIONS AND ACCESSORIES INCLUDING WINTER START CONTROL AND CRANKCASE HEATERS.
 - UNIT COMPRESSORS SHALL BE HERMETIC SCROLL TYPE INVERTER DRIVEN COMPRESSORS AND SHALL HAVE A 5-YEAR MANUFACTURER'S WARRANTY.
20. AUTOMATIC CONTROLS – GENERAL REQUIREMENTS
- A. FURNISH AND INSTALL A COMPLETE ELECTRIC OR ELECTRONIC CONTROL SYSTEM TO PROVIDE TEMPERATURE CONTROL AS SPECIFIED UNDER DESCRIPTION OF OPERATION.
- B. WORK SHALL INCLUDE ALL WIRING, CONTROL EQUIPMENT, AND ACCESSORIES NECESSARY TO MAKE THIS SYSTEM COMPLETE. ALL WIRING SHALL BE 24 VOLT. COORDINATE WITH MANUFACTURER FOR INTERCONNECTION WITH CONTROLS INCLUDED IN EQUIPMENT. ALL CONTROL WORK SHALL BE INSTALLED BY THE HVAC CONTRACTOR.
- C. ACCEPTABLE MANUFACTURERS
- JOHNSON CONTROLS.
 - HONEYWELL, INC.
 - OR APPROVED EQUAL.
- D. OPERATION OF TYPICAL CONTROL SAFETY DEVICES.
- EXHAUST FANS, SUCH AS GENERAL OR TOILET (OPERATING INDEPENDENTLY). ALL SAFETY DEVICES SHALL BE INTERLOCKED WITH "HAND" AND "AUTOMATIC" POSITIONS IN SERIES WITH MOTOR CONTROLLER HOLDING COIL CIRCUIT. REMOTE STARTING SHALL BE THROUGH AUTOMATIC POSITION ONLY. "HAND" POSITION SHALL BE FOR MAINTENANCE OPERATION ONLY.
 - SAFETY DEVICES FOR ALL SYSTEMS, EXCEPT AS OTHERWISE NOTED BELOW.
- ONE FREEZE PROTECTION THERMOSTAT PER COIL SECTION, WIRED TO STOP SUPPLY FAN. THERMOSTAT SHALL BE AUTOMATIC RESET TYPE.
 - FOR SYSTEMS OVER 2,000 CFM, A DUCT MOUNTED SMOKE DETECTOR OF THE IONIZATION TYPE LOCATED IN THE RETURN DUCT SHALL STOP THE SUPPLY FAN AND ASSOCIATED INTERLOCKED EQUIPMENT SHOULD PRODUCTS OF COMBUSTION BE SENSED.
- E. SEQUENCE
- CONSTANT VOLUME SYSTEM
- A 7/24 PROGRAMMABLE THERMOSTAT SHALL BE CAPABLE OF RUNNING THE UNIT AT BOTH OCCUPIED AND UNOCCUPIED MODES. WHILE IN OCCUPIED MODE, THE FAN SHALL RUN CONTINUOUSLY. IN UNOCCUPIED MODE, THE FAN SHALL CYCLE AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.
 - SINGLE TOILET FANS SHALL ENERGIZE VIA A WALL SWITCH (BY OTHERS). COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE COMPLETE WORKING SYSTEM.
 - THE MOTORIZED OUTSIDE AIR DAMPER SHALL OPEN WHENEVER ASSOCIATED UNIT IS IN OCCUPIED MODE VIA THERMOSTAT. IN UNOCCUPIED MODE THE DAMPER SHALL REMAIN CLOSED. PROVIDE ALL TRANSFORMERS AND RELAYS AS REQUIRED. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE COMPLETE WORKING SYSTEM.
 - A PROGRAMMABLE DIGITAL WALL TIMER SIMILAR TO INTERMATIC ST01 MAY BE USED IN PLACE OF THE ABOVE OUTSIDE AIR SYSTEM OPERATION, WHERE CAPABLE OF OPERATING THE MOTORIZED DAMPER INTERLOCK SYSTEM.



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SHEET CONTENTS:

MECHANICAL SPECIFICATIONS

PROJECT TITLE:

ATLANTIC CITY CONVENTION CENTER TRADE SHOP DEVELOPMENT

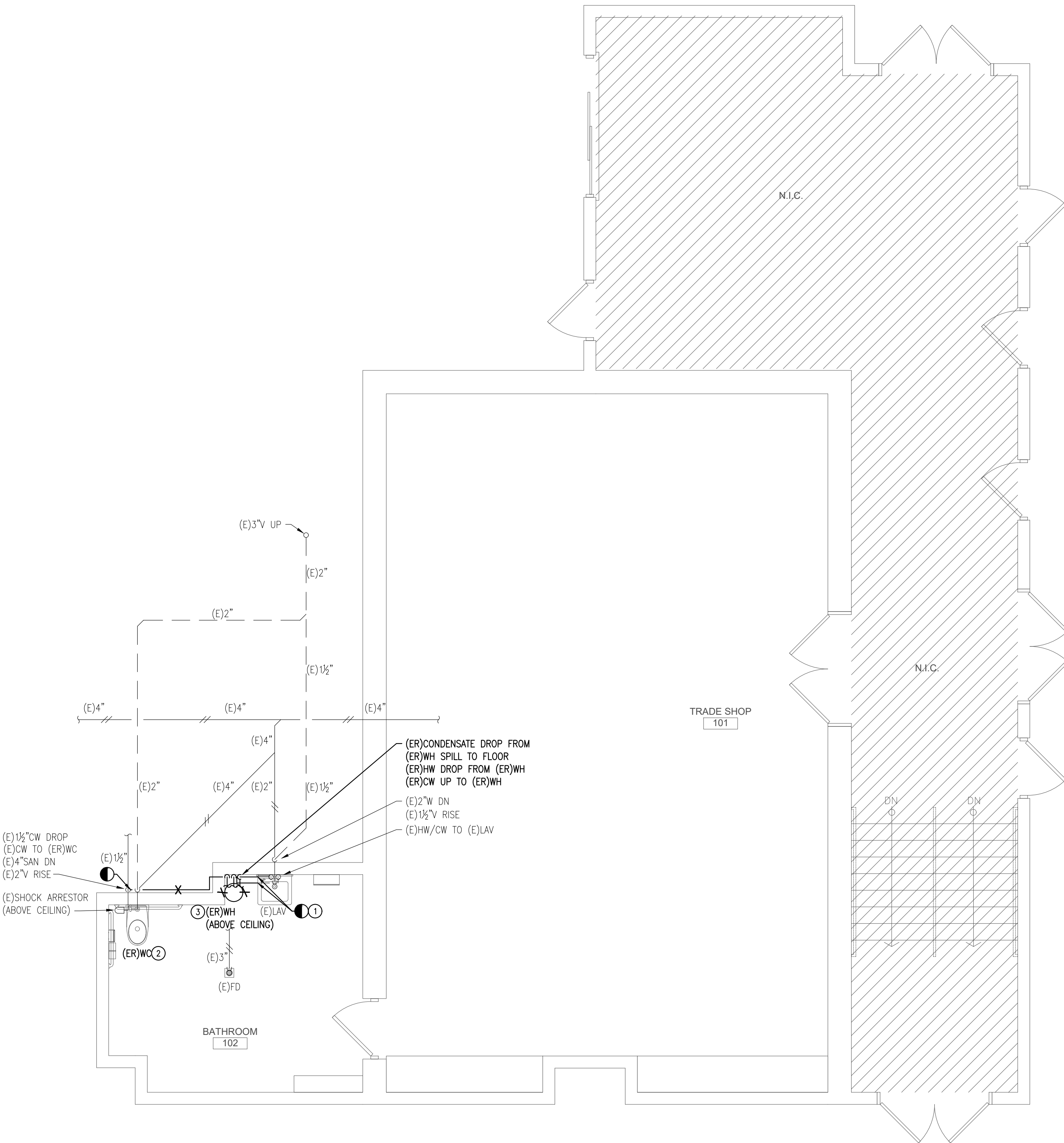
1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

06.17.2026	ISSUED FOR BID

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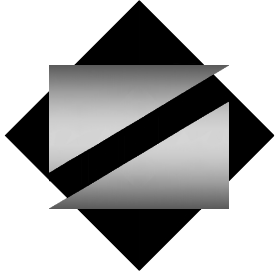
M-301



01 PLUMBING FIRST FLOOR PLAN – DEMOLITION
SCALE: 1/4" = 1'-0"

KEY NOTES:

- 1 DISCONNECT AND REMOVE EXISTING DOMESTIC COLD WATER PIPING INCLUDING VALVES AND ALL OTHER ASSOCIATED APPURTENANCES BACK TO ACTIVE MAIN AND CAP AT ACTIVE MAIN. DISCONNECT AND REMOVE EXISTING DOMESTIC HOT WATER PIPING INCLUDING VALVES AND ALL OTHER ASSOCIATED APPURTENANCES. PREPARE EXISTING DOMESTIC WATER PIPING SERVING EXISTING LAVATORY FOR CONNECTION TO NEW DOMESTIC WATER PIPING, REFER TO NEW WORK PLANS. NOTIFY ENGINEER IF ANY DISCREPANCIES.
- 2 DISCONNECT AND REMOVE EXISTING WATER CLOSET INCLUDING FLUSHVALVE AND ALL OTHER ASSOCIATED APPURTENANCES. PREPARE SANITARY WASTE PIPE AND DOMESTIC WATER PIPE AT WALL FOR CONNECTION TO NEW WATER CLOSET, REFER TO NEW WORK PLANS. NOTIFY ENGINEER IF ANY DISCREPANCIES.
- 3 DISCONNECT AND REMOVE EXISTING WATER HEATER INCLUDING VALVES, DOMESTIC WATER PIPING, CONDENSATE PIPING AND ALL OTHER ASSOCIATED APPURTENANCES. NOTIFY ENGINEER IF ANY DISCREPANCIES.



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SHEET CONTENTS:

PLUMBING FIRST FLOOR PLAN DEMOLITION

PROJECT TITLE:

ATLANTIC CITY CONVENTION CENTER TRADE SHOP DEVELOPMENT

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

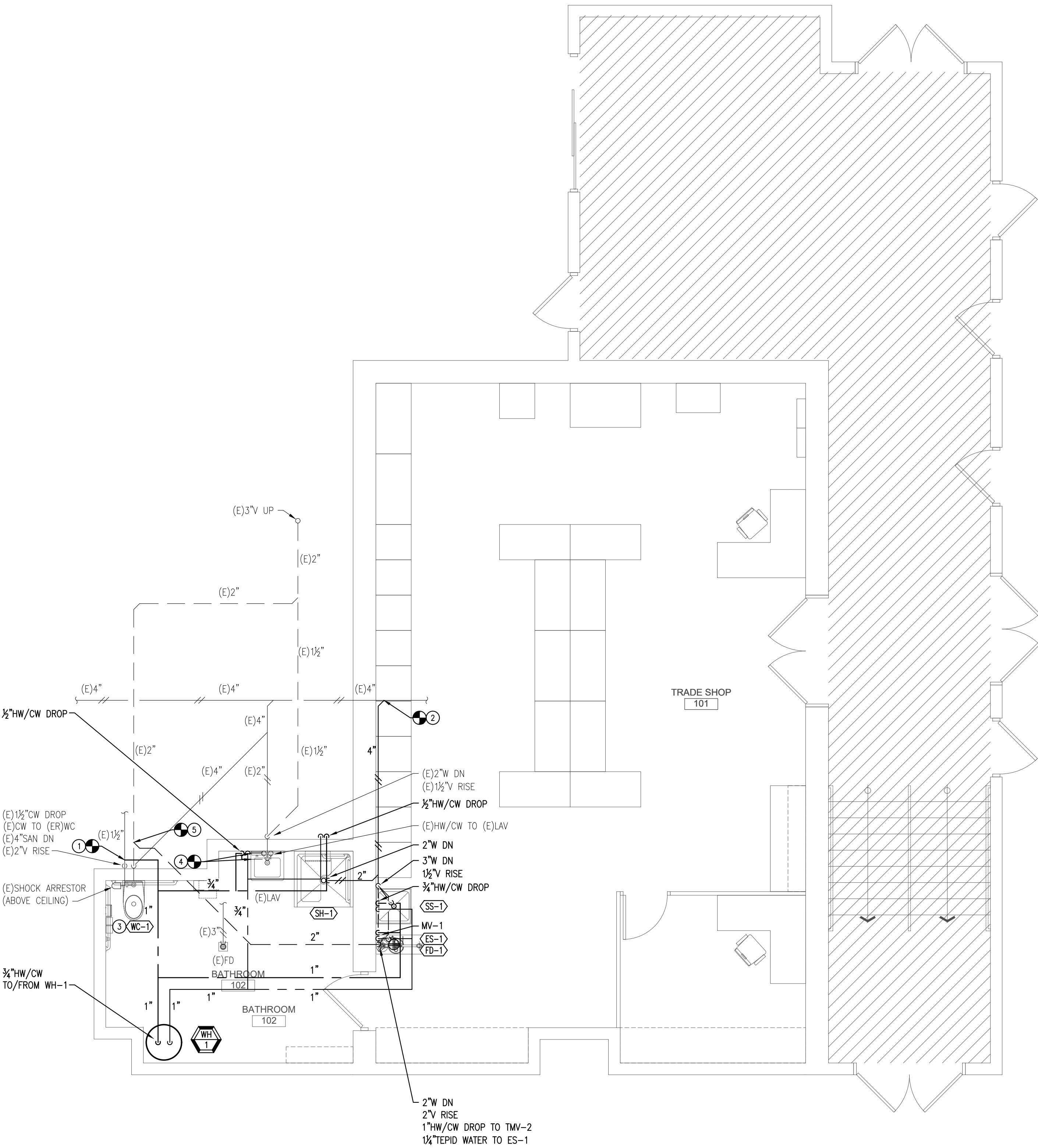
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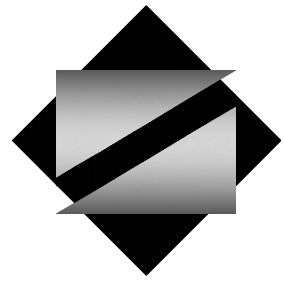
01 PLUMBING FIRST FLOOR PLAN – NEW WORK
SCALE: 1/4" = 1'-0"

DRAWING NOTES:

- DRAWINGS ARE DIAGRAMMATIC. PROVIDE ADDITIONAL OFFSETS, TRANSITIONS, ETC. AS REQUIRED TO AVOID INTERFERENCES ENCOUNTERED.
- CONTRACTOR SHALL PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AND ACCESS TO ALL EQUIPMENT. COORDINATE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS.
- SEE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZES.
- SEE RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

KEY NOTES:

- CONNECT NEW DOMESTIC COLD WATER PIPE TO EXISTING DOMESTIC COLD WATER PIPE ABOVE CEILING AND EXTEND TO NEW PLUMBING FIXTURES AS REQUIRED. PROVIDE VALVES, VALVE STOPS AND ALL OTHER ASSOCIATED APPURTENANCES REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING SYSTEM. MODIFY EXISTING DOMESTIC COLD WATER PIPING AS REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING SYSTEM. COORDINATE WITH ARCHITECTURAL PLANS FOR LOCATIONS OF NEW PLUMBING FIXTURES. NOTIFY ENGINEER IF ANY DISCREPANCIES.
- CONNECT NEW SANITARY PIPE TO EXISTING SANITARY PIPE BELOW SLAB AND EXTEND TO NEW PLUMBING FIXTURES AS REQUIRED. PROVIDE P-TRAPS AND ALL OTHER ASSOCIATED APPURTENANCES REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING SYSTEM. MODIFY EXISTING SANITARY PIPING AS REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING SYSTEM. SAWCUT EXISTING CONCRETE SLAB AS REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING SYSTEM. PATCH AND REPAIR EXISTING SLAB AS NECESSARY IN PREPARATION FOR NEW FLOORING. COORDINATE WITH ARCHITECTURAL PLANS FOR LOCATIONS OF NEW PLUMBING FIXTURES. NOTIFY ENGINEER IF ANY DISCREPANCIES.
- CONNECT NEW WATER CLOSET TO EXISTING SANITARY WASTE AND DOMESTIC WATER PIPING AT WALL. PROVIDE FLUSHVALVE, VALVE STOPS AND ALL OTHER ASSOCIATED APPURTENANCES REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING SYSTEM. NOTIFY ENGINEER IF ANY DISCREPANCIES.
- CONNECT NEW DOMESTIC WATER PIPING TO EXISTING DOMESTIC WATER PIPING SERVING EXISTING LAVATORY. PROVIDE MIXING VALVE AND ALL OTHER ASSOCIATED APPURTENANCES REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING SYSTEM. MODIFY EXISTING DOMESTIC WATER PIPING AS REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING SYSTEM. NOTIFY ENGINEER IF ANY DISCREPANCIES.
- CONNECT NEW SANITARY VENT PIPE TO EXISTING SANITARY VENT PIPE ABOVE CEILING AND EXTEND TO NEW PLUMBING FIXTURES AS REQUIRED. PROVIDE ALL ASSOCIATED APPURTENANCES REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING SYSTEM. MODIFY EXISTING SANITARY VENT PIPING AS REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING SYSTEM. COORDINATE WITH ARCHITECTURAL PLANS FOR LOCATIONS OF NEW PLUMBING FIXTURES. NOTIFY ENGINEER IF ANY DISCREPANCIES.



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SHEET CONTENTS:

PLUMBING
FIRST FLOOR PLAN
NEW WORK

PROJECT TITLE:

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CONVENTION CENTER
TRADE SHOP DEVELOPMENT
1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

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PLUMBING FIXTURE SCHEDULE								
FIXTURE #	FIXTURE	MANUFACTURER AND EQUIPMENT	MODEL NUMBER	SERVICE CONNECTIONS				REMARKS
				CW	HW	SAN	VENT	
WC-1	WATER CLOSET-HANDICAPPED FLUSH VALVE WALL MOUNTED	SLOAN WATER CLOSET & FLUSHOMETER COMBO BEMIS OPEN FRONT SEAT LESS COVER	WETS-2451.1001 1955SSCT	1"	-	4"	2"	PROVIDE FIXTURE CARRIER AS REQUIRED MOUNT AT HANDICAPPED HEIGHT
SS-1	UTILITY SINK FLOOR MOUNTED	ADVANCED TABCO SCULLERY SINK ADVANCED TABCO SWING SPOUT FAUCET	4-1-24 K-1118	3/4"	3/4"	3"	1-1/2"	PROVIDE ADVANCE TABCO MODEL# K-416-LU WRIST HANDLES PROVIDE P-TRAP, SUPPLIES, VALVE STOPS & RISERS
SH-1	SHOWER HANDICAPPED	AQUATIC TRANSFER SHOWER	1363BFRF	1/2"	1/2"	2"	1-1/2"	COORDINATE LEFT HAND/RIGHT HAND UNIT WITH ARCHITECTURAL DRAWINGS COORDINATE AVAILABLE OPTIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION

- NOTES:
- ALL EXPOSED WATER AND/OR SANITARY PIPING UNDER SINKS OR LAVATORIES SHALL BE INSULATED WITH "LAV GUARD" INSULATION KIT.
 - PVC CELLULAR CORE (FOAM CORE) PIPE SYSTEMS IS NOT AN APPROVED MATERIAL AND SHALL NOT BE ACCEPTED FOR INSTALLATION UNDER ANY CIRCUMSTANCE.
 - ALL FIXTURE SHUT-OFFS AND STOP VALVES SHALL HAVE BRASS STEMS, PROVIDE ANGLE SUPPLY STOP WITH FLANGE (ESCUTCHEON PLATE) AND FLEXIBLE HOSE.
 - PROVIDE THERMOSTATIC MIXING VALVES (MV-1) BELOW EACH SINK AND/OR LAVATORY, (THAT IS NOT LOCATED WITHIN A DWELLING UNIT).
 - SEE ARCHITECTURAL DRAWING SETS FOR ADDITIONAL FIXTURE AND ACCESSORY REQUIREMENTS. CONTRACTOR SHALL COORDINATE AND PROVIDE FOR ALL FIXTURE AND EQUIPMENT.
 - SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
 - ALL QUICK OPENING VALVES INCLUDING FLUSH VALVES SHALL HAVE SHOCK ARRESTORS WITH ACCESS PANELS.
 - ALL ADA SHOWERS SHALL BE PROVIDED SO THAT THE TOP OF THRESHOLD DOES NOT EXCEED 1/2".

WATER HEATER SCHEDULE													
TAG NO.	ITEM	MANUFACTURER	MODEL	STORAGE (GALLONS)	GAS (MBH)	ELECTRICAL				THERMAL EFFICIENCY	RECOVERY (GPH)	TEMP RISE (DEG. F)	REMARKS
						V	PH	HZ	KW				
	ELECTRIC WATER HEATER	BRADFORD WHITE	LE280T3-3	80		208	1	60	5.5	96%	25	90°	PROVIDE CONCRETE HOUSEKEEPING PAD, COORDINATE LOCATION IN FIELD. PROVIDE AMTROL ST-12 IN LINE 4.4 GALLON EXPANSION TANK

- NOTES:
- WATER HEATER TEMPERATURE SHALL BE SET TO 140°F., PROVIDE TMV-1 MASTER THERMOSTATIC MIXING VALVE SET TO 120°F. (SEE DETAIL)

PIPE SCHEDULE					
TAG	TYPE	MATERIAL/FITTINGS	SIZES	INSULATION	NOTES
CW	DOMESTIC COLD WATER	TYPE L COPPER HARD DRAWN / WROUGHT COPPER FITTINGS	1-1/4" OR SMALLER	1" FIBERGLASS	
CW	DOMESTIC COLD WATER	TYPE L COPPER HARD DRAWN / WROUGHT COPPER FITTINGS	1-1/2" OR LARGER	1" FIBERGLASS	
HW	DOMESTIC HOT WATER	TYPE L COPPER HARD DRAWN / WROUGHT COPPER FITTINGS	1-1/4" OR SMALLER	1" FIBERGLASS	
HW	DOMESTIC HOT WATER	TYPE L COPPER HARD DRAWN / WROUGHT COPPER FITTINGS	1-1/2" OR LARGER	1.5" FIBERGLASS	
SAN	SANITARY BELOW GRADE	CAST IRON/HUB AND SPIGOT	ALL	-	
SAN	SANITARY ABOVE GRADE	CAST IRON/HUBLESS	ALL	-	PROVIDE HEAVY DUTY STAINLESS STEEL COUPLINGS.
SAN	SANITARY BELOW GRADE	SCHEDULE 40 PVC/PVC SOCKET	ALL	-	
SAN	SANITARY ABOVE GRADE	SCHEDULE 40 PVC/PVC SOCKET	ALL	-	
VENT	VENT ABOVE GRADE	CAST IRON/HUBLESS	ALL	-	PROVIDE HEAVY DUTY STAINLESS STEEL COUPLINGS.
VENT	VENT ABOVE GRADE	SCHEDULE 40 PVC/PVC SOCKET	ALL	-	

- NOTES:
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - FOAM CORE PVC IS NOT AN APPROVED MATERIAL TO BCG STANDARDS

DRAIN SCHEDULE																																						
BODY														STRAINER														REMARKS										
DESIGNATION	MANUFACTURER					CAST IRON	ACID RESISTANT COATING	GALVANIZED	ALL BRONZE	SECONDARY CLAMP	DECK CLAMP	SUMP RECEIVER	FLASHING COLLAR	CAST IRON	GALVANIZED	ALL BRONZE	NICKEL BRONZE	CHROME PLATED	SEDIMENT BUCKET	SECONDARY STRAINER	POLISHED FINISH	SATIN FINISH	TRACTOR GRATE	BRONZE MESH SCREEN	FUNNEL TOP	FLAT TOP	DOME	RAISED LIP	NICKEL BRONZE RIM	LESS GRATE	HALF GRATE	BRONZE TOP	IRON GRATE	POLYETHYLENE	SOLID HINGED COVER	TRAP PRIMER	LOCATION	
	ZURN	WADE	JR SMITH	JOSAM	WATTS																																	
FD-1			X			X							X						X	X					X													EMERGENCY SHOWER

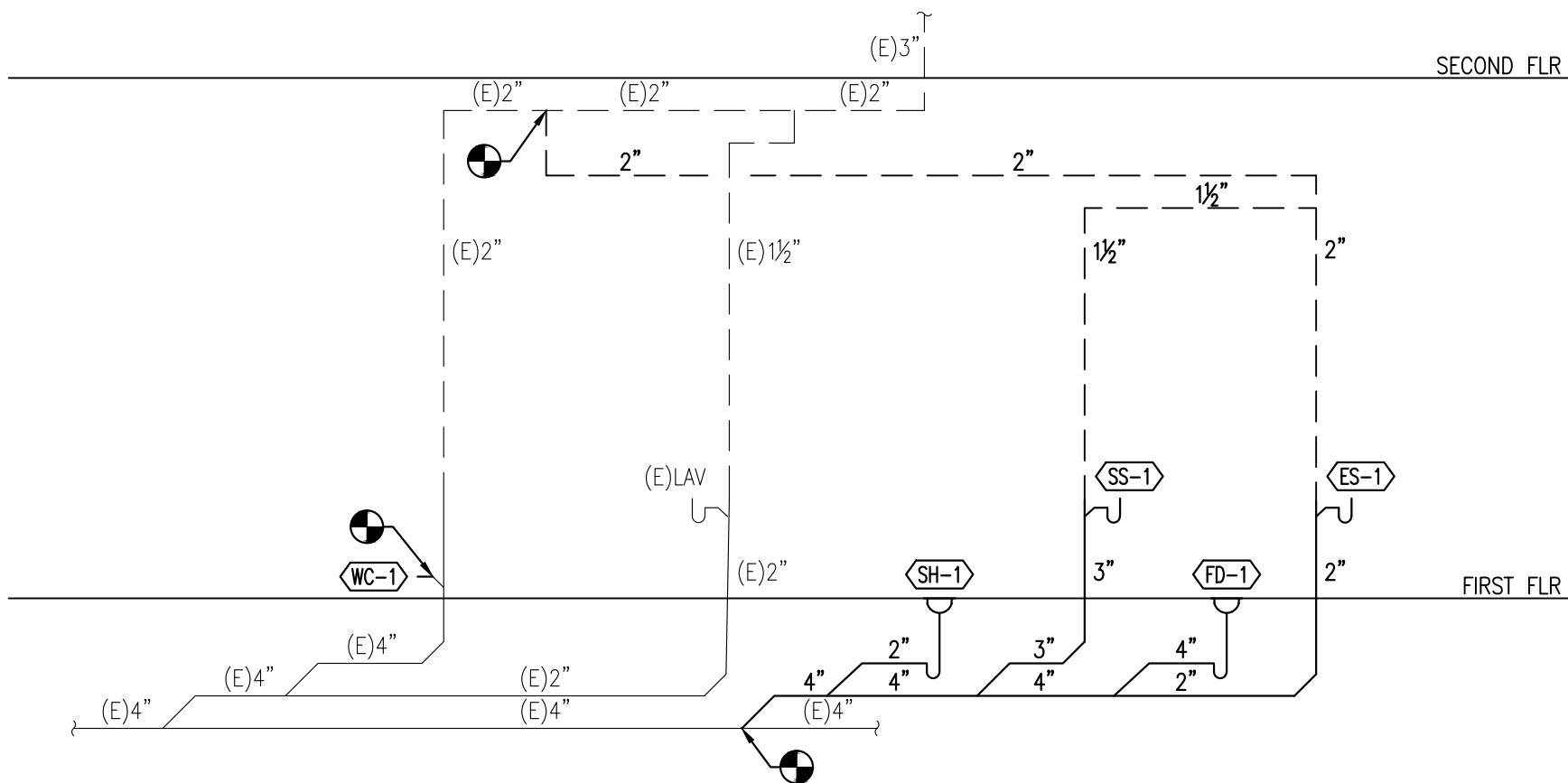
- NOTES:
- ALL FLOOR DRAINS IN FINISHED AREAS SHALL BE LOCATED AS PER THE ARCHITECTURAL DRAWINGS.
 - THE TOP OF CURVE OF ALL FLOOR DRAINS SHALL BE FLUSH WITH THE ADJACENT FINISHED FLOOR.
 - PROVIDE TRAP PRIMER 'TP-1' ON ALL FLOOR DRAINS.

MISCELLANEOUS PLUMBING SCHEDULE					
TAG	TYPE	MANUFACTURER	MODEL #	SIZE	ACCESSORIES
MV-1	MIXING VALVE	WATTS	LFLM495	1/2", 3/4"	3,4,6,9
TMV-1	THERMOSTATIC MIXING VALVE	WATTS	LFLM492	1"	4,6,13
TMV-2	THERMOSTATIC MIXING VALVE	BRADLEY	S19-2150	SEE PLANS	4,6,13
TP-1	TRAP PRIMER	JAY R. SMITH	2692 SERIES	SEE PLANS	13
ES-1	EMERGENCY SHOWER	BRADLEY	S19314PDC	SEE PLANS	13

NOTES/ACCESSORIES:
(1) P.D.I. AND/OR A.S.S.E. APPROVED (2) EXPANSION BELLOWS TYPE (3) IN-LINE TYPE (4) BRONZE BODY
(5) SWEAT CONNECTION (6) THREADED CONNECTIONS (7) BUILT IN BY-PASS (8) REPLACEABLE THERMOSTAT
(9) CW SHUT-OFF FOR EXCESSIVE HW DEMAND (10) WITH INTEGRAL VACUUM BREAKER (11) FROST PROOF
(12) PROVIDE DU-U DISTRIBUTION UNIT AS REQUIRED (13) INSTALL PER MANUFACTURERS RECOMMENDATIONS

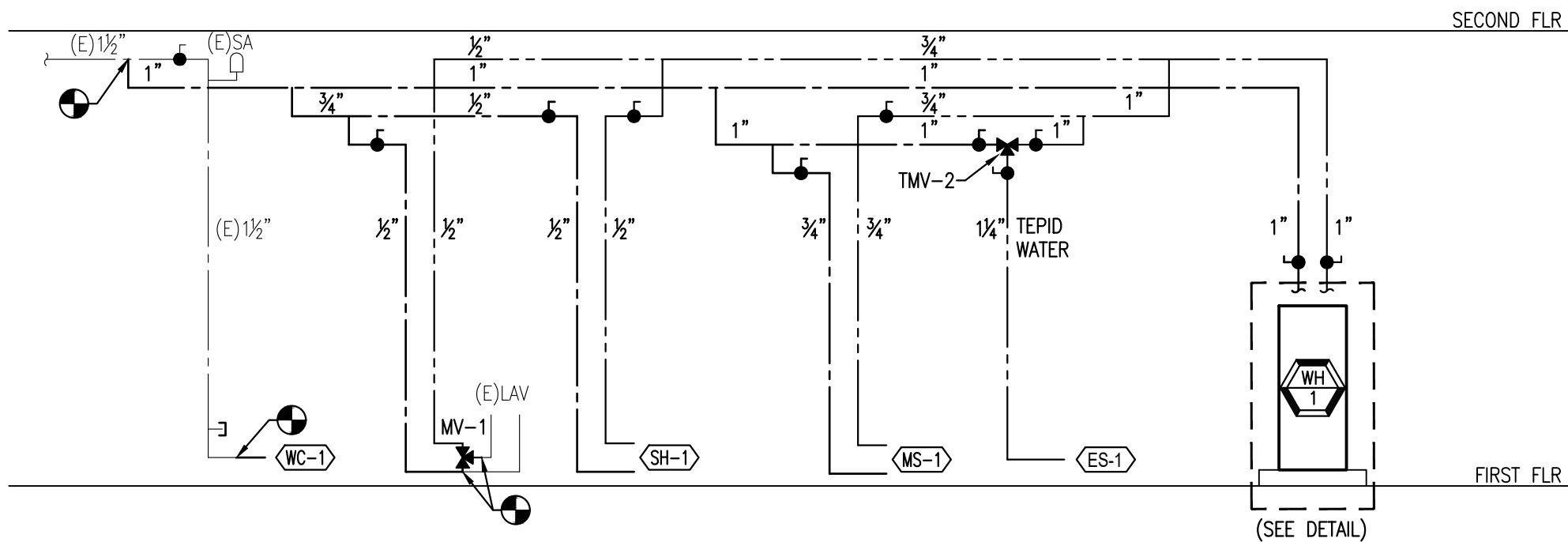
BACKFLOW PREVENTION DEVICE SCHEDULE	
FIXTURE	BACKFLOW PREVENTION DEVICE
WATER CLOSET	FLUSH VALVE FURNISHED WITH AN INTEGRAL VACUUM BREAKER
SERVICE / MOP SINKS	FAUCET FURNISHED WITH AN INTEGRAL VACUUM BREAKER OR WATTS SERIES 7 DUAL CHECK VALVE

- NOTES:
- CONTRACTOR SHALL PROVIDE BACKFLOW PREVENTION DEVICES AT THE EQUIPMENT LISTED ABOVE.
 - DEVICES LISTED ARE MANUFACTURED BY WATTS REGULATOR COMPANY. CONTRACTOR MAY SUBMIT AN EQUAL FROM ANOTHER MANUFACTURER FOR REVIEW.
 - CONTRACTOR SHALL VERIFY REQUIREMENTS WITH LOCAL AUTHORITIES HAVING JURISDICTION.

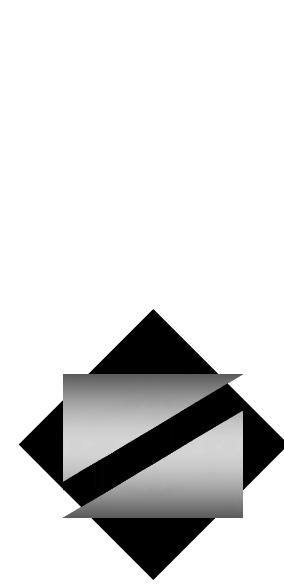


01 SANITARY RISER DIAGRAM
SCALE: NONE

- NOTE:
- ALL PIPING SHALL PITCH @1/8"/FT. UNLESS OTHERWISE NOTED.



02 DOMESTIC WATER RISER DIAGRAM
SCALE: NONE



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CERTIFICATE OF AUTHORIZATION AC-438

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SHEET CONTENTS:

PLUMBING
SCHUEDLES AND
RISER DIAGRAMS

PROJECT TITLE:

ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT
1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

06.17.2026 ISSUED FOR BID

DATE	REVISIONS	REV

Date 05.01.26

Scale AS NOTED

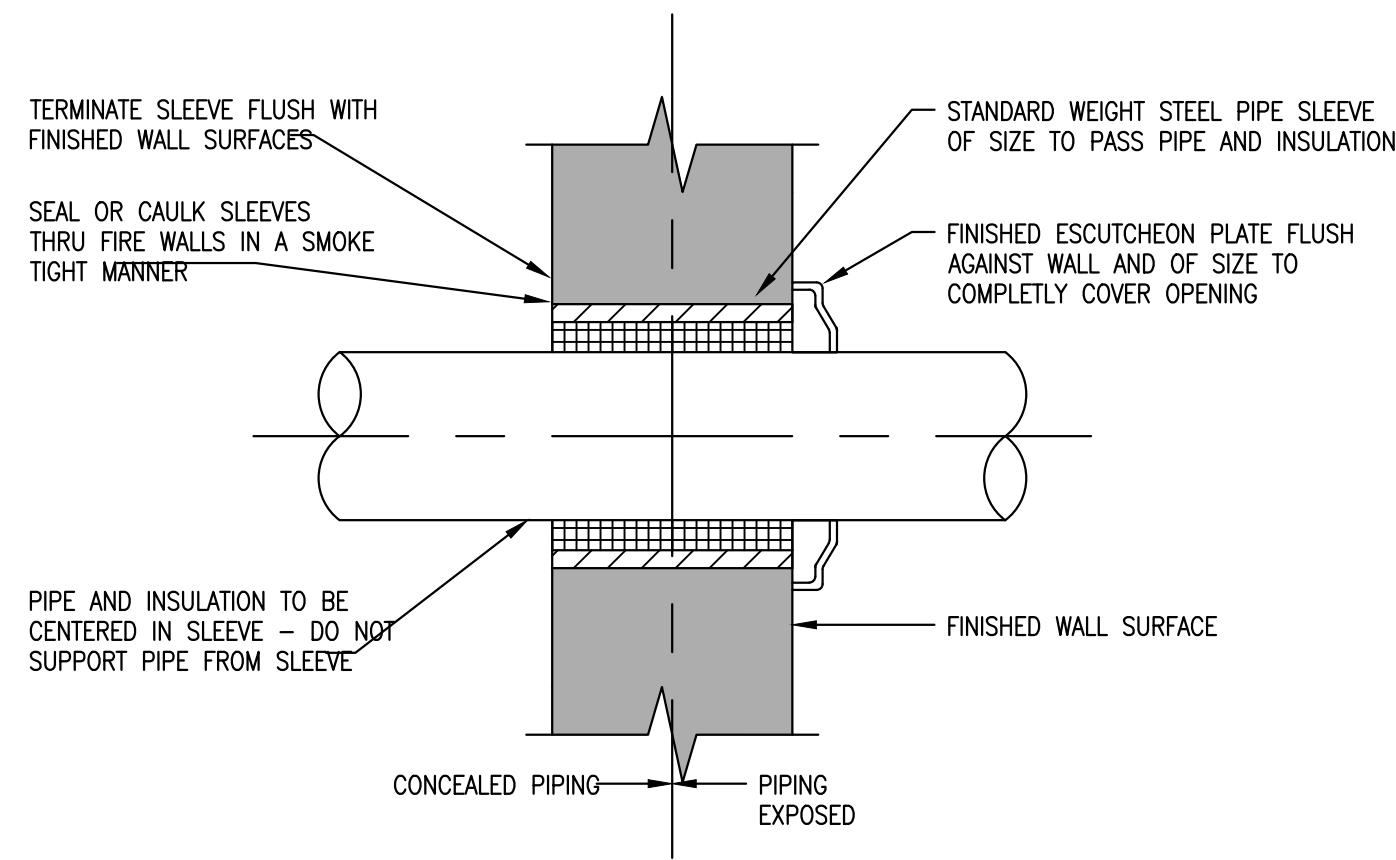
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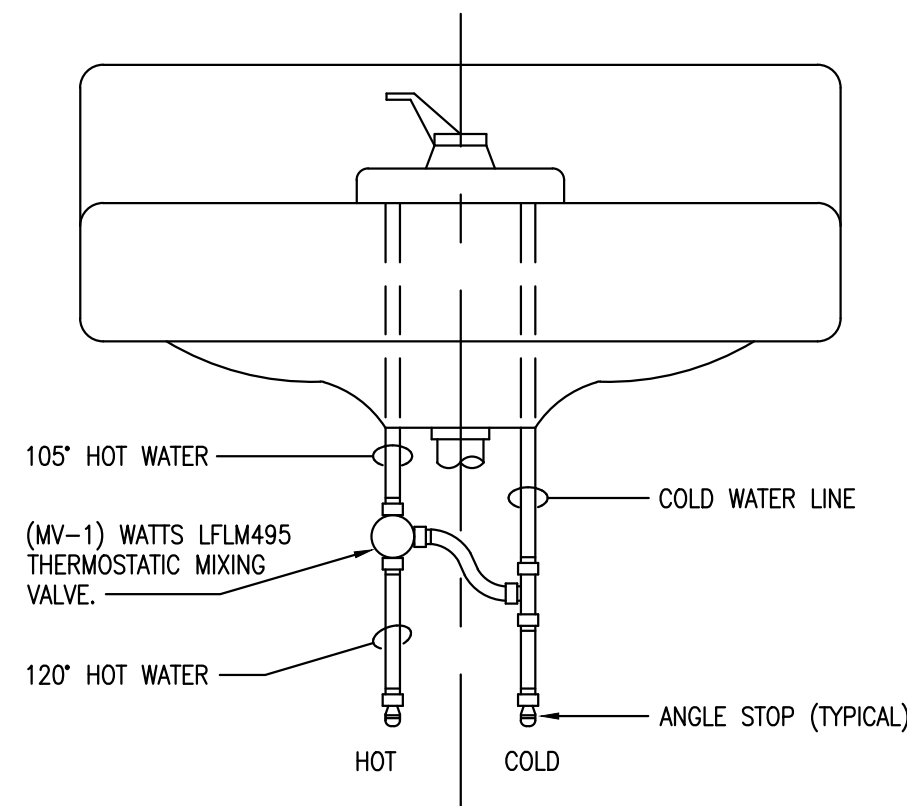
Job No. 25150

Drawing No.

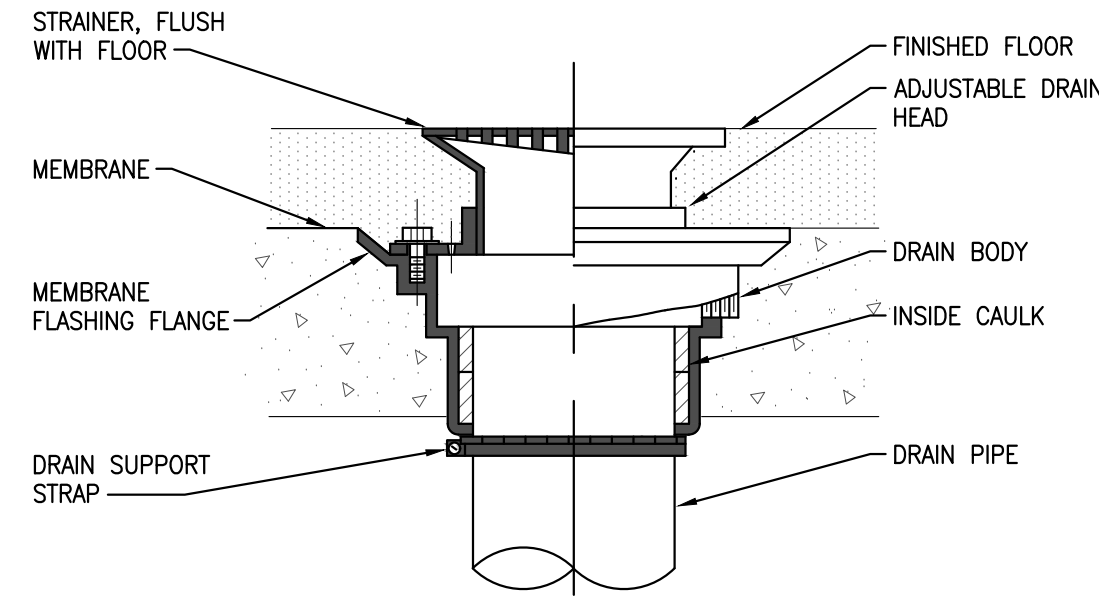
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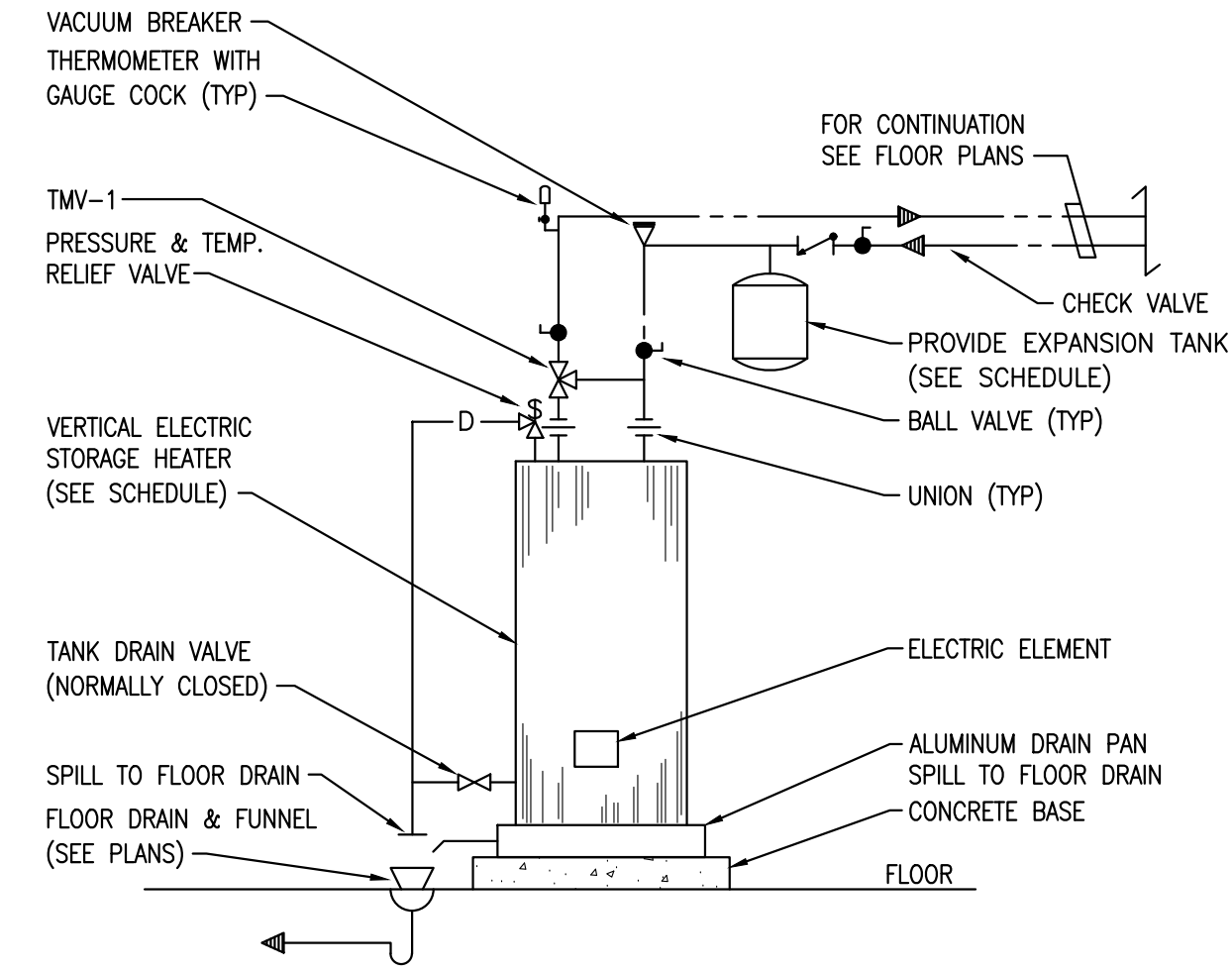
01 PIPE SLEEVE THRU WALL DETAIL
SCALE: N.T.S



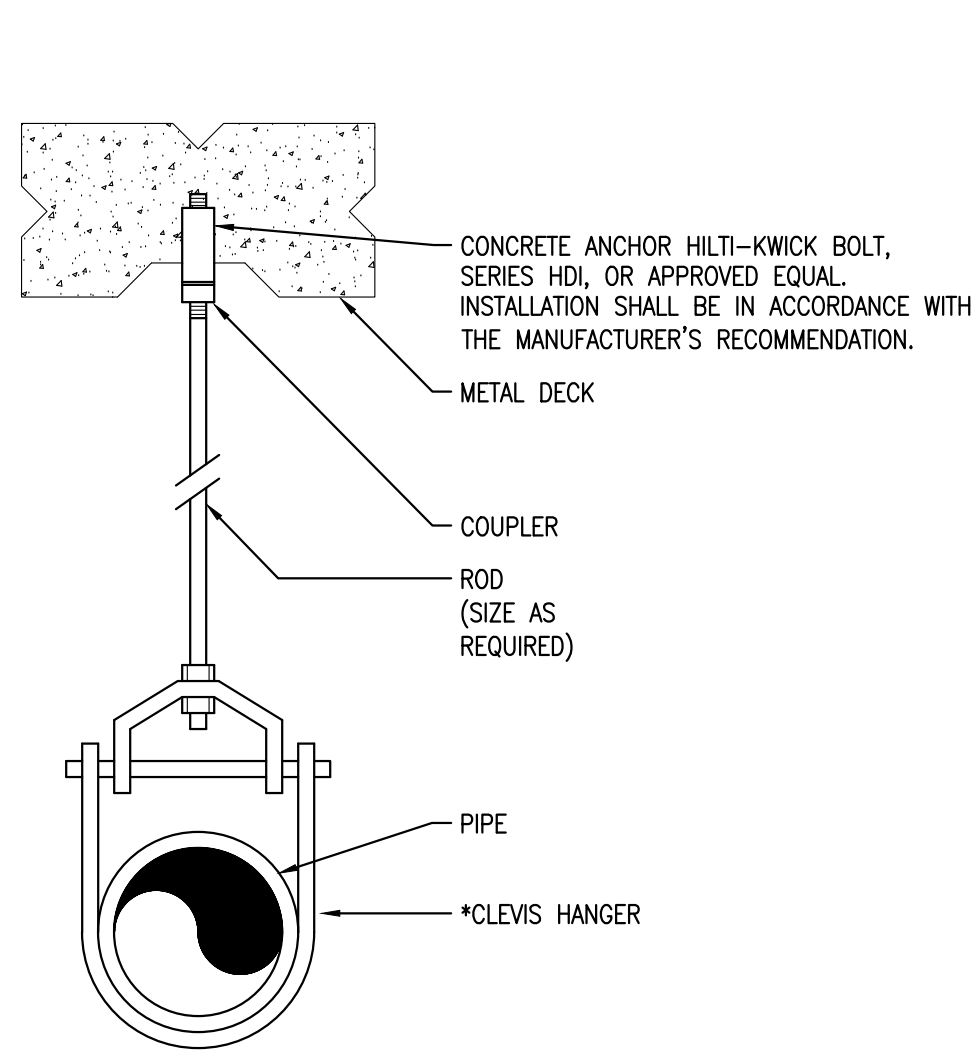
02 MIXING VALVE BELOW SINK DETAIL
SCALE: N.T.S



03 FLOOR DRAIN DETAIL
SCALE: N.T.S

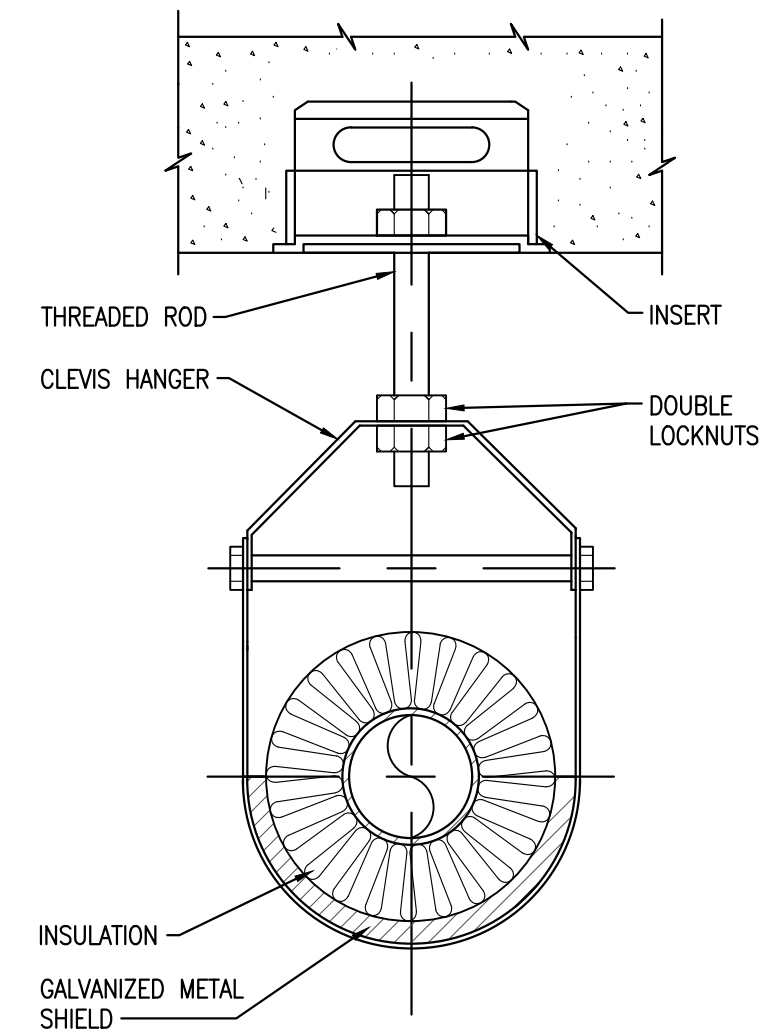
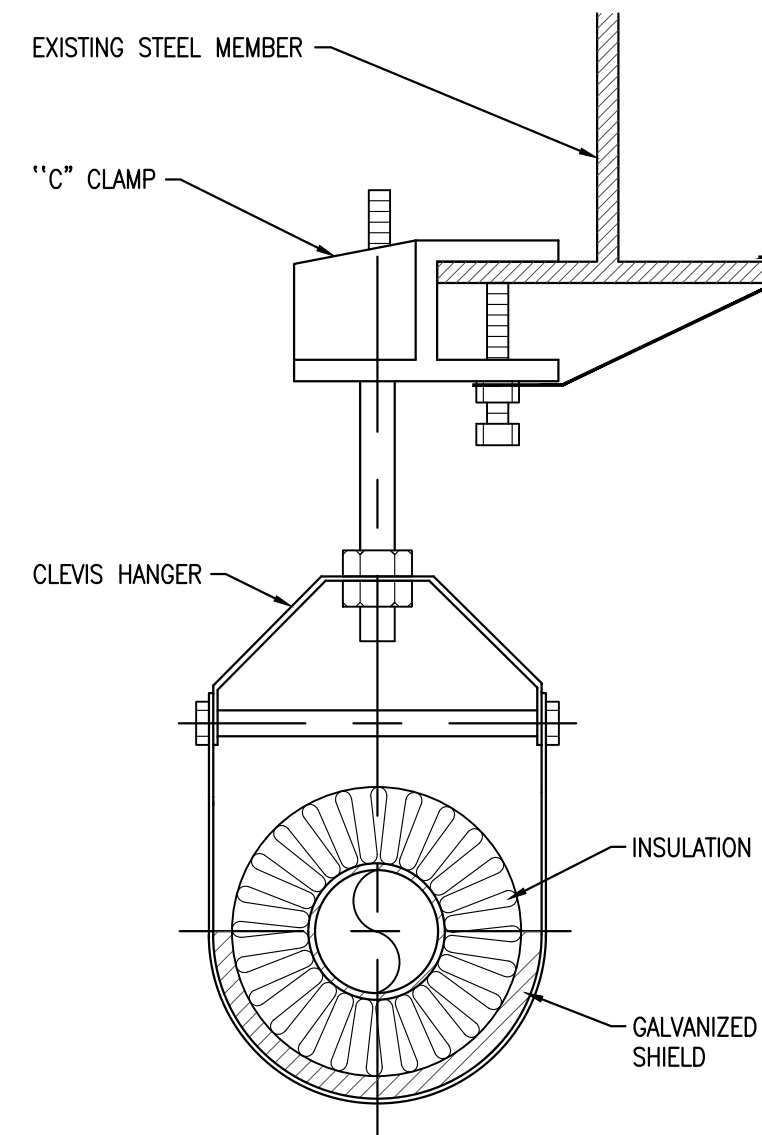
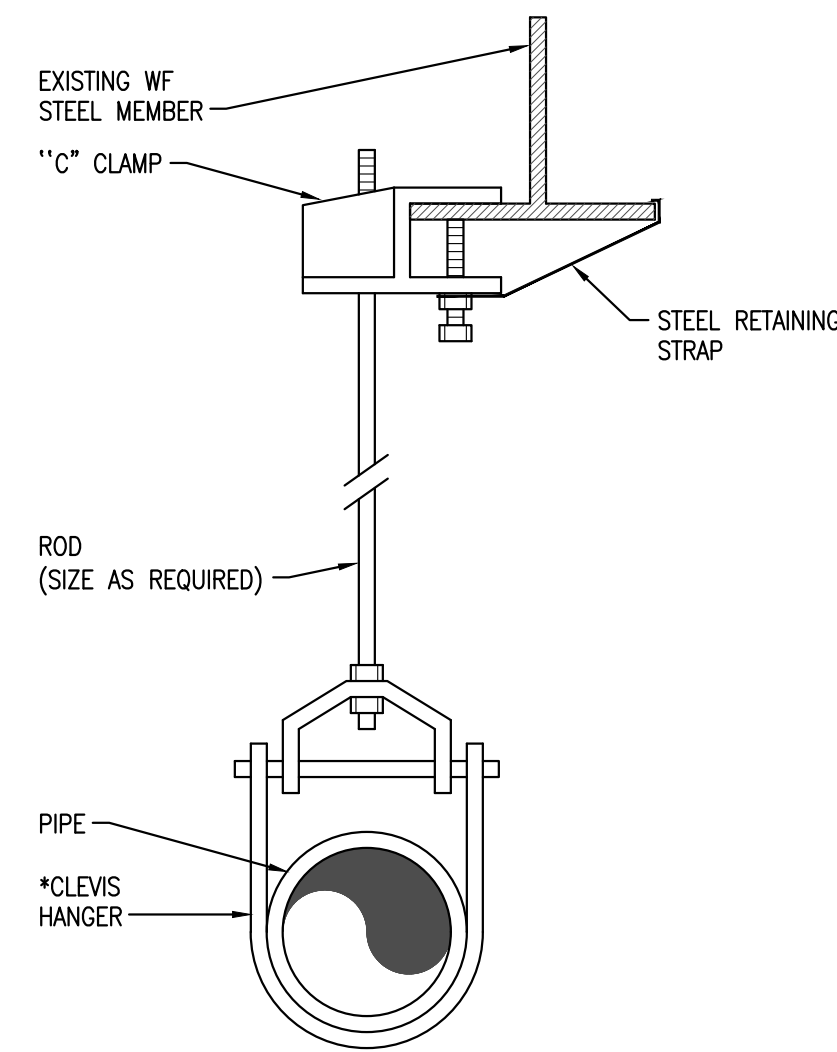


04 ELECTRIC WATER HEATER DETAIL
SCALE: N.T.S



*CLEVIS HANGERS REQUIRED ON PIPING 1-1/4" OR LARGER. GENERAL PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.

05 TYPICAL HANGER DETAIL
SCALE: N.T.S

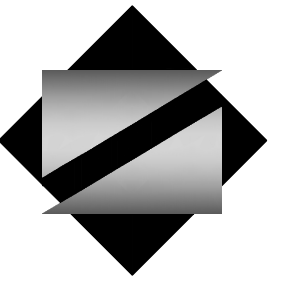


DETAIL NOTE:
HANGER, ROD & INSERT SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION

06 TYPICAL INSULATED PIPING SUPPORT DETAIL
SCALE: N.T.S

WITH INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS USSG
UP TO 3"	6"	18
4" TO 6"	8"	16
8" & LARGER	12"	16

WITHOUT INCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS USSG
UP TO 3"	12"	18
4"	15"	16
5"	18"	16
6"	21"	16
8" & LARGER	24"	14



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P-400

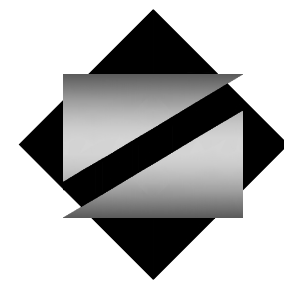
- PLUMBING SPECIFICATIONS
1. GENERAL
- A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, "AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.
- B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
- C. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
- D. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. PIPE ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF PIPE TO AVOID OBSTRUCTIONS. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER TRADES IS REQUIRED. MAINTAIN HEADROOM AND SPACE CONDITIONS.
- E. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES, WHICH INVOLVE EXTRA COST, SHALL NOT BE MADE WITHOUT APPROVAL.
- F. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF THE GENERAL WORK. ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND INCLUDE ALL CHANGES IN MAKING UP THE WORK PROPOSAL.
- G. CONNECTIONS TO EXISTING WORK: INSTALL NEW WORK AND CONNECT TO EXISTING WORK WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS OF EXISTING SERVICES SHALL BE PERFORMED AT NO ADDITIONAL CHARGES, AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION OF EXISTING FACILITIES AND ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES AS REQUIRED WITH NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL CONDITION.
- H. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW WORK.
- I. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
- J. THE LOCATIONS OF THE EXISTING SERVICES ARE BELIEVED TO BE AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION OF THESE SERVICES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY WORK.
- K. SEAL OPENINGS THROUGH PARTITIONS, WALLS AND FLOORS WITH AN APPROVED NON-SHRINKING FIRE PROOF CAULKING OR OTHER APPROVED NONCOMBUSTIBLE MATERIAL.
- L. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPING AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AS REQUIRED.
- M. ALL PRESENT MATERIAL, EQUIPMENT AND CONSTRUCTION DEBRIS TO BE REMOVED UNDER THIS CONTRACT SHALL BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY THE BUILDING REPRESENTATIVE, ARCHITECT OR AS NOTED TO BE RELOCATED ON THE DRAWINGS. REMOVED EQUIPMENT SHALL BE PROPERLY DISPOSED OF BY THIS CONTRACTOR.
- N. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- O. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER. THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE PRESENT OCCUPANTS.
- P. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK IN OVERTIME AND THE ADDITIONAL COST TO BE CHARGED THEREFORE SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
- Q. UNLESS OTHERWISE SPECIFICALLY SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
- R. ALL MATERIAL AND EQUIPMENT TO BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- S. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING PIPE SIZES, CLEARANCES, ETC. AND CONDITIONS.
- T. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.
- U. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
- V. PROVIDE ALL REQUIRED CUTTING, PATCHING, EXCAVATING AND BACKFILL.
2. SCOPE OF WORK
- A. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIONAL STANDARD PLUMBING CODE AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.
- B. THE BASE BUILDING DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE MADE PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, MODIFIED, SUPPLEMENTED OR SPECIFIED HEREIN.
- C. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM

- THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OR ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
- D. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH THE DEPARTMENT HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFORE. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
3. SHOP DRAWINGS
- A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT PROVIDE COMPLETE SET OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, INDICATING CAPACITY DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.
- B. INDICATE ON EACH SHOP DRAWINGS SUBMITTED
- 1) PROJECT NAME AND LOCATION
- 2) NAME OF ARCHITECT AND ENGINEER
- 3) ITEM IDENTIFICATION
- 4) APPROVAL STAMP OF PRIME CONTRACTOR
- C. SUBMISSIONS
- 1) SUBMISSIONS 11 IN. X 17 IN. OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES. OTHERWISE, HE SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL FORWARD THE ORIGINAL AND ONE COPY (TWO COPIES WHEN NO ORIGINAL IS RECEIVED) TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE.
- 2) SUBMISSIONS LARGER THAN 11 IN. X 17 IN.: SUBMIT TWO PRINTS AND ONE PAPER SEPA TO THE ARCHITECT. THE ARCHITECT WILL FORWARD ONE PRINT AND THE PAPER SEPA TO THE ENGINEER.
- D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:
- 1) PIPE AND FITTINGS
- 2) VALVES
- 3) PLUMBING FIXTURES AND TRIM
- 4) PIPING LAYOUTS
- 5) SUPPORTS, HANGERS AND GUIDES
- 6) INSULATION
- 7) WATER HEATERS
- 8) FLOOR DRAINS
- E. COORDINATION
- 1) THE CONTRACTOR SHALL ASSURE FULL COOPERATION OF ALL TRADES AND SHALL FURNISH IN WRITING ALL INFORMATION NECESSARY TO PERMIT THE WORK OF ALL TRADES TO BE INSTALLED SATISFACTORILY AND WITH LEAST POSSIBLE INTERFERENCE OR DELAY.
- 2) PREPARE COORDINATED COMPOSITE DRAWINGS AT A SUITABLE SCALE NOT LESS THAN 1/4-INCH EQUALS ONE FOOT, ZERO INCHES, CLEARLY SHOWING HOW THE WORK OF THIS DIVISION IS TO BE INSTALLED IN RELATION TO THE WORK OF ALL TRADES. ANY WORK INSTALLED IN CONFLICT WITH THE WORK OF OTHER TRADES SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- 3) THE CONTRACTOR MAY, SUBJECT TO THE ACCEPTANCE OF THE ARCHITECT AND WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF ALL TRADES OR FOR THE PROPER EXECUTION OF THE WORK.
- 4) PLUMBING DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND DETAILS FOR EXACT LOCATION OF DUCTWORK, PIPING AND EQUIPMENT.
- 5) THE CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYOUT WORK AND SHALL COORDINATE ALL TRADES TO VERIFY SPACES IN WHICH WORK SHALL BE INSTALLED. MAINTAIN MAXIMUM HEADROOM OR SPACE CONDITIONS. WHERE SPACE CONDITIONS APPEAR INADEQUATE, THE ARCHITECT SHALL BE NOTIFIED BEFORE INSTALLATION. DO NOT PROCEED WITH THE INSTALLATION UNTIL RECEIVING CLARIFYING INSTRUCTIONS.
4. AS-BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS
- A. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.
- B. THESE INSTRUCTIONS SHALL BE TYPED ON 8-1/2 IN. X 11 IN. PAPER AND BOUND IN THREE RING BINDERS WITH CLEAR ACETATE COVERS. CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE COPY TO THE ENGINEER.
- C. THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PROJECT, ARCHITECT AND ENGINEER.
- D. REPRODUCIBLE "AS-BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE AS INSTALLED CONDITIONS OF THE WORK. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.
5. GENERAL PROVISIONS FOR PLUMBING WORK
- A. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES, WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.
- B. DEFINITIONS
- 1) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
- 2) "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
- 3) "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.
- 4) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES

- AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.
- 5) "WIRING": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED ITEMS.
- 6) "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.
- 7) "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
- 8) "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.
- C. QUALITY ASSURANCE
- 1) QUALITY AND GAUGE OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KINDS, FREE FROM DEFECTS AND LISTED BY UNDERWRITERS LABORATORIES, INC., OR BEARING THEIR LABEL. MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED.
- 2) GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF WORK.
- D. PRODUCT DELIVERY, STORAGE AND HANDLING
- 1) MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CARTED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES.
- 2) ACCESSIBILITY: FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS SHALL BE PERMITTED. CHANGES OF MAGNITUDE OR INVOLVING EXTRA COST ARE NOT PERMISSIBLE WITHOUT REVIEW. GROUP CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS WITH EQUIPMENT FREELY ACCESSIBLE THROUGH ACCESS DOORS.
- E. PAINT SHALL BE THE BEST GRADE FOR ITS PURPOSE. DELIVER IN ORIGINAL SEALED CONTAINERS AND APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COLORS SHALL BE AS SELECTED. UTILIZE GALVANIZED IRON PRIMER ON PANEL AND PULL BOXES, AFTER FABRICATION. UTILIZE HOT DIPPED GALVANIZED OR DIPPED IN ZINC CHROMATE FOR OUTLET BOXES, JUNCTION BOXES, CONDUIT HANGERS, RODS, INSERTS AND SUPPORTS. RED LEAD OR ZINC CHROMATE WITH FINISH TO MATCH SURROUNDINGS SHALL BE USED FOR MARRED SURFACES OF STEEL EQUIPMENT AND RACEWAYS. A FIELD-APPLIED ZINC CHROMATE PRIME COAT SHALL BE UTILIZED FOR STEEL OR IRONWORK.
- F. BRUSH AND CLEAN WORK PRIOR TO CONCEALING, PAINTING AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED. CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF MATERIAL AND EQUIPMENT.
- G. FINAL LOCATIONS AND MOUNTING ORIENTATIONS OF ALL PLUMBING FIXTURES SHALL BE VERIFIED BY ARCHITECT.
- H. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
6. PIPE AND FITTINGS
- A. SANITARY DRAINAGE AND VENT
- 1) SERVICE WEIGHT HUB AND SPIGOT CAST IRON SOIL PIPE AND FITTINGS WITH LEAD AND OAKUM JOINTS.
- 2) PVC PIPE: ASTM D 2665, SOLID-WALL DRAIN, WASTE, AND VENT.
- a. PVC SOCKET FITTINGS, ASTM D 2665, SOCKET TYPE, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS.
- b. PERMITTED IN NON-AIR PLENUM APPLICATIONS OR LOCATIONS.
- B. DOMESTIC WATER
- 1) TYPE L HARD COPPER TUBING WITH CAST BRONZE OR WROUGHT COPPER FITTINGS AND 95/5 TIN ANTIMONY SOLDER JOINTS.
- 2) STANDARD WEIGHT RED BRASS PIPE WITH STANDARD WEIGHT CAST BRONZE THREADED FITTINGS.
- C. ALL EXPOSED PIPE AND FITTINGS SHALL BE CHROME-PLATED BRASS.
- D. ALL EXPOSED PIPING PASSING THROUGH WALLS, FLOORS, CEILINGS, AND PARTITIONS SHALL BE PROVIDED WITH CHROME PLATED CAST BRASS ESCUTCHEONS HELD IN PLACE WITH SET SCREWS.
- E. INSTALL MECHANICAL SLEEVE SEAL AT EACH PENETRATION THROUGH FOUNDATION WALL. SELECT NUMBER OF INTERLOCKING RUBBER LINKS REQUIRED TO MAKE INSTALLATION WATER TIGHT.
7. VALVES
- A. GATE VALVES
- 1) BRONZE RISING STEM, CLASS 150 RISING STEM, UNION BONNET, SOLID WEDGE AND MANUFACTURED IN ACCORDANCE WITH MSS-SP80. MODEL NO. T134 AS MANUFACTURED BY NIBCO.
- B. BALL VALVES
- 1) TWO-PIECE, BRONZE, END ENTRY, 600 PSI WWP; SIMILAR TO NIBCO #T585-70.
- 2) THREE-PIECE, STAINLESS STEEL, BUTT WELD, 2,000 PSI WWP; SIMILAR TO NIBCO #BN-590-S6-R-66-FS-LL.
- C. CHECK VALVES
- 1) BRONZE, THREADED CAP, TEFLON DISC; SIMILAR TO NIBCO #T433-Y.
- D. APPLIANCE CONNECTOR VALVES: ANSI Z21.15 AND IAS LISTED.
8. INSULATION
- A. ALL INSULATION (INCLUDING JACKET, FACING AND ADHESIVE) SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURES LISTED IN ASTM E-84, NFPA 255 AND UL 273; NOT EXCEEDING A FLAME SPREAD OF 25 AND A SMOKE DEVELOPED OF 50.
- B. PIPING SHALL HAVE A MINIMUM 4 LB DENSITY MOLDED FIBERGLASS, MAXIMUM 0.23 K-FACTOR AT 75 DEGREES F MEAN TEMPERATURE WITH FACTORY -APPLIED FIRE-RETARDANT FOIL-SKIRM-KRAFT FACING. ALL SERVICE JACKET SIMILAR TO JOHNS MANVILLE MICRO-LOK HP
- C. FITTING COVER, MOLDED WHITE PVC JACKET, UL CLASS 1, MAXIMUM PERMEANCE 0.05 SIMILAR TO MANVILLE ZESTRON

- D. ON VALVES AND FITTINGS PROVIDE PRE-MOLDED FIBERGLASS FITTINGS. VAPOR SEAL INSULATION ON "CW".
- E. "CW" PIPING: PROVIDE 1/2 IN. THICK FIBERGLASS SECTION PIPE COVERING WITH VAPOR BARRIER JACKET.
- F. "HW" PIPING: PROVIDE 1 IN. THICK FIBERGLASS SECTIONAL PIPE COVERING.
9. PLUMBING FIXTURES
- A. PROVIDE ALL FIXTURES WITH STOP VALVES AND SUPPLIES AND FIXTURE TRAPS AS REQUIRED.
- B. ALL FIXTURES SHALL BE AS INDICATED ON THE ARCHITECTURAL AND PLUMBING DOCUMENTS.
10. PIPING SUPPORTS
- A. SUPPORT ALL PIPING FROM BUILDING CONSTRUCTION BY PROVIDING INSERTS, BEAM CLAMPS, STEEL FISHPATES (IN CONCRETE FILL ONLY), AND ACCEPTABLE BRACKETS. SUBMIT ALL METHODS FOR REVIEW.
- B. PROVIDE TRAPEZE HANGERS OF BOLTED ANGLES OR CHANNELS FOR GROUPED LINES AND SERVICES.
- C. PROVIDE ADDITIONAL FRAMING WHERE BUILDING CONSTRUCTION IS INADEQUATE. SUBMIT FOR REVIEW.
- D. SUSPENDED HORIZONTAL PIPING
- 1) SUPPORT ALL PIPING IN PROCESS AREAS INDEPENDENTLY FROM STRUCTURE USING FRP TYPE HANGERS, SIMILAR TO CENTURY COMPOSITES CC-HANGERS.
- 2) SUPPORT ALL PIPING INDEPENDENTLY FROM STRUCTURE USING HEAVY IRON-HINGED TYPE HANGERS, SIMILAR TO GRINNELL CLEVIS NO. 260.
- 3) PROVIDE ELECTROPLATED SOLID-BAND HANGERS SIMILAR TO AUTO-GRIP, FOR TWO-INCH AND SMALLER PIPE.
- 4) PROVIDE WALL BRACKETS FOR WALL-SUPPORTED PIPING, AND PROVIDE PIPE SADDLES FOR FLOOR-MOUNTED PIPING.
- 5) PROVIDE SUPPORTS WITH COPPER LINING FOR UNINSULATED COPPER PIPING.
- 6) SUSPEND PIPING FROM INSERTS, USING BEAM CLAMPS WITH RETAINING CLAMP OR LOCKNUT, STEEL FISH PLATES, CANTILEVER BRACKETS OR OTHER ACCEPTED MEANS. BEAM CLAMPS SHALL BE SIMILAR TO GRINNELL FIGURES 61, 87, 131, OR 225.
- 7) SUSPEND PIPING BY RODS WITH DOUBLE NUTS.
- 8) PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND ACCEPTED WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING HANGER RODS IN REQUIRED LOCATIONS.
- 9) SUPPORT BRANCH FIXTURE WATER PIPING IN CHASES WITH COPPER-PLATED METAL BRACKETS, SECURED TO STUDS, SIMILAR TO HOLDRITE NOS. 102-18, 107-18, 102-26, OR 101-26.
- E. PROVIDE 180-DEGREE ARC GALVANIZED METAL COVERING SHIELDS ON HANGERS FOR INSULATED PIPING WITHOUT INCOMPRESSIBLE INSULATING BLOCK IN INSULATION AT HANGERS.
- F. MAXIMUM HANGER SPACING AS INDICATED
- 1) PIPE 1 INCH AND SMALLER SHALL BE EVERY 8 FEET.
- 2) PIPE 1-1/4 INCH AND LARGER SHALL BE EVERY 10 FEET.
- 3) COPPER TUBING 1-1/4 INCH AND SMALLER SHALL BE EVERY 6 FEET.
- 4) COPPER TUBING 1-1/2 INCH AND LARGER SHALL BE EVERY 10 FEET.
- 5) CAST IRON: EVERY 5 FEET AND AT EVERY FITTING OR JOINT.
- G. VERTICAL PIPING
- 1) PROVIDE EXTENSION PIPE CLAMPS BOLTED TO BARE PIPE ON EACH SIDE AND BEARING EQUALLY ON STRUCTURE OR WELDED TO BEAM.
- 2) PROVIDE SPACING AS INDICATED
- a. THREADED PIPING SHALL BE EVERY OTHER FLOOR LEVEL, AT A MAXIMUM OF 25 FEET ON CENTERS.
- b. CAST IRON PIPING SHALL BE EVERY FLOOR LEVEL, MAXIMUM 20 FEET ON CENTERS; HUBBLESS PIPE IS THE EXCEPTION, REQUIRING A MAXIMUM OF 10 FEET ON CENTERS.
- c. TUBING SHALL BE EVERY FLOOR LEVEL MAXIMUM 10 FEET ON CENTERS.
11. SYSTEM IDENTIFICATION
- A. PIPING:
- 1) ALL PIPING, EXPOSED OR CONCEALED SHALL BE IDENTIFIED AS TO ITS SERVICE IN ACCORDANCE WITH OSHA AND ANSI STANDARDS BY ONE OF THE FOLLOWING METHODS:
- a. INSTALLATION OF MANUFACTURED ADHESIVE BAND TYPE IDENTIFICATION MARKERS.
- 2) PIPING IDENTIFICATION MARKINGS SHALL BE INSTALLED AS FOLLOWS:
- a. IN EACH ROOM.
- b. ALL VALVE LOCATIONS.
- c. AT SHAFT WALLS.
- d. EVERY 40 FEET ON CONTINUOUS RUNS.
- B. VALVES:
- 1) VALVES SHALL BE IDENTIFIED BY A TAG SYSTEM UTILIZING BRASS TAGS AT 2 INCH MINIMUM DIAMETER AND ATTACHED TO THE VALVES USING BRASS CHAIN.
- a. THE NEW VALVE TAG IDENTIFICATION NUMBERS SHALL BE PERMANENTLY

- ADDED TO ALL EXISTNG VALVE TAG CHARTS WITHIN THE BUILDING.
- C. EQUIPMENT:
- 1) IDENTIFY ALL CONTROLS SUCH AS MOTOR STARTERS NOT IN MOTOR CONTROL CENTERS, FLOAT SWITCHES, AND ALARMS.
12. TESTS
- A. DOMESTIC WATER PIPING
- 1) TEST PIPING HYDROSTATICALLY AT A PRESSURE OF 125 PSI.
- 2) DURATION OF TEST SHALL BE 2 HOURS WITHOUT A LOSS IN PRESSURE.
- B. DRAINAGE AND VENT PIPING
- 1) CAP ALL OUTLETS AND FILL PIPING SYSTEM TO OVERFLOWING FROM A POINT AT LEAST 10 FEET ABOVE THE FLOOR.
- 2) THE WATER LEVEL SHALL REMAIN CONSTANT THROUGHOUT THE TEST DURATION OF 2 HOURS.
- C. ARRANGE AND COORDINATE TESTS WITH OWNER 48 HOURS IN ADVANCE. NOTIFY ENGINEER AND ARCHITECT OF TEST DATE AND TIME.
- D. DEFECTS DISCLOSED BY THE TESTS SHALL BE REPAIRED OR REPLACED. TESTS SHALL BE REPEATED AS DIRECTED UNTIL ALL WORK IS PROVEN SATISFACTORY.
- E. TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO THE BUILDING AND ITS CONTENTS AS A RESULT OF SUCH TESTS. REPAIR ANY DAMAGE CAUSED.



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SHEET CONTENTS:

PLUMBING SPECIFICATIONS

PROJECT TITLE:

ATLANTIC CITY CONVENTION CENTER TRADE SHOP DEVELOPMENT

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

06.17.2026 ISSUED FOR BID

DATE	REVISIONS	REV

Date 05.01.26

Scale AS NOTED

Drawn by CTC

Checked by WAC

Job No. 25150

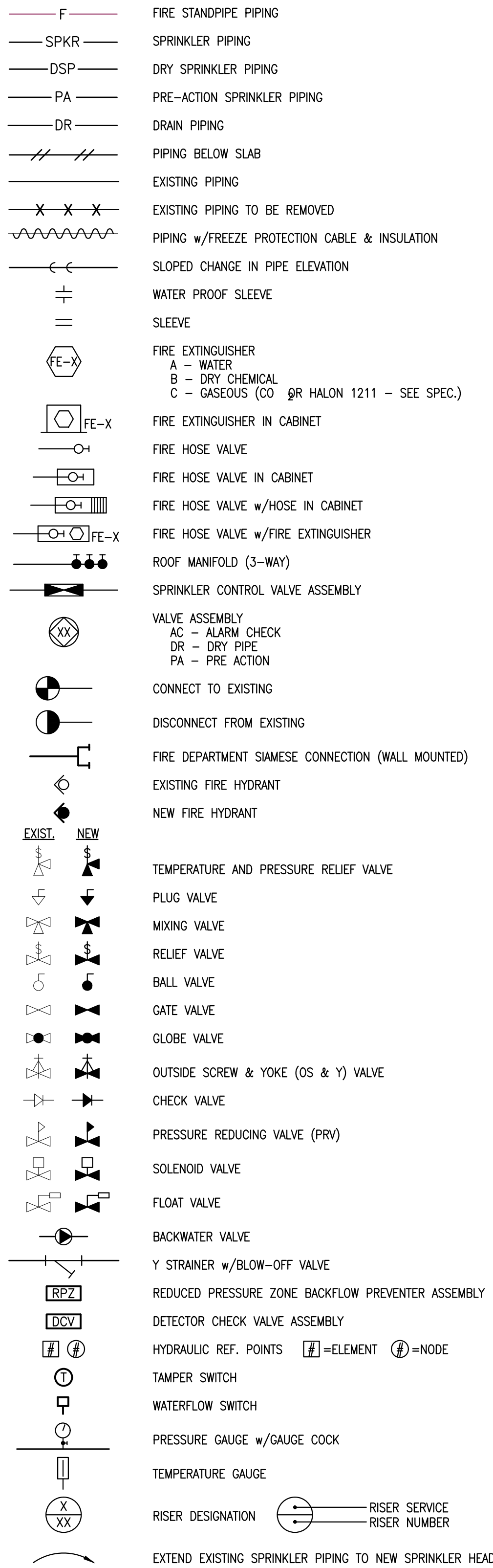
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FIRE PROTECTION SYMBOLS
(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)



NOTES:

1. NEW BRANCH PIPE SIZING AS FOLLOWS:
- | | |
|-------------|--------|
| 1 SP. HEAD | 1" |
| 2 SP. HEAD | 1" |
| 3 SP. HEAD | 1 1/4" |
| 4 SP. HEAD | 1 1/2" |
| 5 SP. HEAD | 1 1/2" |
| 6 SP. HEAD | 2" |
| | |
| 10 SP. HEAD | 2" |
| 11 SP. HEAD | 2 1/2" |

FIRE PROTECTION ABBREVIATIONS
(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)

ABD	AUTOMATIC BALL DRIP
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
ATS	AUTOMATIC TRANSFER SWITCH
BOP	BOTTOM OF PIPE
CFM	CUBIC FEET PER MINUTE
CV	CHECK VALVE
DIA	DIAMETER
DR	DRAIN
DN	DOWN (PENETRATES FLOOR SLAB)
(E)	EXISTING
(ER)	EXISTING TO BE REMOVED
(ERR)	EXISTING TO BE REMOVED & RELOCATED
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
FD	FLOOR DRAIN
FL	FLOOR
FP	FIRE PUMP
FSP	FIRE STANDPIPE
FT	FEET
GC	GENERAL CONTRACTOR
GV	GATE VALVE
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAT DETECTOR
ID	INSIDE DIAMETER
IN	INCH
JP	JOCKEY PUMP
MAX	MAXIMUM
MIN	MINIMUM
(N)	NEW
NC	NORMALLY CLOSE
NIC	NOT IN THIS CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OS&Y	OUTSIDE SCREW & YOKE GATE VALVE
PSIA	POUNDS PER SQUARE INCH (ABSOLUTE)
PSI	POUNDS PER SQUARE INCH (GAUGE)
PRV	PRESSURE REDUCING VALVE
(RE)	RELOCATED EXISTING
(RRO)	EXISTING TO BE REMOVED AND RETURN TO OWNER
SD	SMOKE DETECTOR
SPKR	SPRINKLER
TOP	TOP OF PIPE
TS	TAMPER SWITCH
UN	UNLESS OTHERWISE NOTED
UP	UP (PENETRATES FLOOR SLAB)
WFS	WATER FLOW SWITCH
Z	ZONE

FIRE PROTECTION SCOPE

- THE NEW CONSTRUCTION SHALL BE PROVIDED WITH A WET AND DRY FIRE SPRINKLER SYSTEMS AND OTHER FIRE PROTECTION SPECIALTIES AS NOTED. SYSTEMS SHALL BE DESIGNED, HYDRAULICALLY CALCULATED AND INSTALLED IN ACCORDANCE WITH THE ADOPTED VERSIONS OF THE FOLLOWING STANDARDS:

NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

NFPA 70 – NATIONAL ELECTRIC CODE – LATEST APPLICABLE EDITION

NFPA 72 – NATIONAL FIRE ALARM CODE – LATEST APPLICABLE EDITION

UL FIRE PROTECTION LIST – LATEST APPLICABLE EDITION

FM GLOBAL APPROVAL GUIDE – LATEST APPLICABLE EDITION

FIRE PROTECTION GENERAL NOTES

- THE FIRE PROTECTION SYSTEM SHALL BE A WET SYSTEM EMPLOYING AUTOMATIC SPRINKLERS ATTACHED TO A PIPING SYSTEM CONTAINING WATER.
- THE SPRINKLER CONTRACTOR SHALL PROVIDE PIPING MAINS WITH SIZES AS SHOWN AND WITH BRANCH PIPING SIZED AS REQUIRED. THE SPRINKLER CONTRACTOR SHALL PREPARE, SIGN AND SEALED SHOP DRAWINGS PER NFPA 13 AND INCLUDE HYDRAULIC CALCULATIONS.
- WHERE THERE IS A DISCREPANCY BETWEEN MATERIAL OR EQUIPMENT IN THE DRAWINGS AND/OR SPECIFICATIONS, THE FIRE PROTECTION CONTRACTOR SHALL ASSUME THE MORE STRINGENT, HIGHER QUALITY AND MORE EXPENSIVE OPTION FOR BIDDING.
- THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR SUBMITTAL OF PRODUCT DATA FOR SPRINKLER COMPONENTS AND ACCESSORIES.
- THE SPRINKLER CONTRACTOR SHALL PERFORM FIELD ACCEPTANCE TESTS OF THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13.
- SPRINKLER PROTECTION SHALL BE BASED ON THE FOLLOWING CRITERIA:

-LIGHT HAZARD : 225 S.F. PER HEAD

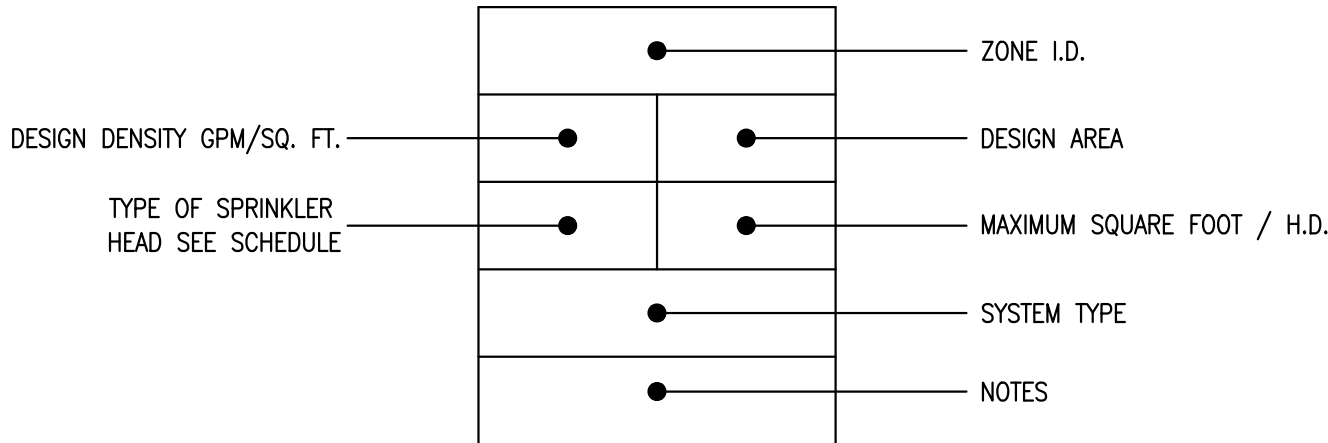
-ORDINARY HAZARD : 130 S.F. PER HEAD
- PROVIDE PERMANENT PLACARD AT EACH SPRINKLER RISER VALVE WITH HYDRAULIC DATA BASIS OF DESIGN.
- THE SPRINKLER CONTRACTOR SHALL PROVIDE A MINIMUM OF 10% PRESSURE SAFETY MARGIN FOR THE HYDRAULIC CALCULATIONS.
- PROVIDE SYSTEM AUXILIARY DRAINS FOR ALL TRAPPED PIPING ON WET AND DRY SYSTEMS IN ACCORDANCE WITH NFPA 13.
- PRIOR TO PERFORMING HYDRAULIC CALCULATIONS, THE SPRINKLER CONTRACTOR SHALL OBTAIN AND UTILIZE THE MOST RECENT HYDRANT FLOW TEST. IF THE MOST RECENT DATA IS OLDER THAN SIX (6) MONTHS TO DATE, A NEW TEST SHALL BE ORDERED AND PERFORMED.
- THE SPRINKLER CONTRACTOR SHALL PROVIDE ALL REQUIRED TESTING OF WATER SUPPLIES FOR POTENTIAL (MIC) MICROBIOLOGICALLY INFLUENCED CORROSION PER NFPA 13 (WATER SUPPLY TESTING).
- SPRINKLERS INSTALLED IN AREAS WITH SUSPENDED CEILING TILES SHALL BE LOCATED AT THE CENTER OF THE CEILING TILES OR AT THE CENTER OF RECTANGULAR CEILING TILES AND NOT LESS THAN 12" FROM ANY EDGE. COORDINATE WITH LIGHTING LAYOUTS AND ANY OTHER EQUIPMENT LOCATED IN OR ABOVE THE SUSPENDED CEILING.
- PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE FIRE SUPPRESSION SYSTEM WHERE SHOWN ON DRAWINGS AND REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION, N.F.P.A. NO. 13, AND INSURANCE CARRIER.
- PROVIDE SIX (6) EXTRA SPRINKLER HEADS AND SPRINKLER HEAD CABINETS WITH ASSOCIATED WRENCHES FOR EACH TYPE OF SPRINKLER HEAD.
- IF THERE ARE ANY QUESTIONS CONCERNING INSURANCE UNDERWRITER REQUIREMENTS IN ORDER TO APPROVE THE COMPLETED INSTALLATION (PIPING SIZING, LOCATION OF RISERS, TEST STATIONS, HYDRANTS, ALARMS, ETC.) THE BIDDER SHALL CONSULT WITH THE INSURANCE UNDERWRITER BEFORE SUBMITTING HIS BID. FAILURE TO CONSULT WITH THE INSURANCE UNDERWRITER DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY AND COMPLETION OF ANY AND ALL WORK REQUIRED SHALL BE PROVIDED WITH NO EXTRA CHARGES TO THE OWNER.
- SPRINKLER HEADS SHALL NOT INTERFERE WITH LIGHTING FIXTURES, SPEAKERS, DIFFUSERS AND GRILLES, ETC. COORDINATE WITH ARCHITECT'S AND ALL APPLICABLE TRADES REFLECTED CEILING PLANS PRIOR TO SUBMITTING SHOP DRAWING.
- GARANTEE ALL WORK MATERIAL AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY.
- ALL SPRINKLER PIPING SHALL BE ROUTED AS HIGH AS POSSIBLE. ALL MAINS SHALL BE ROUTED TIGHT TO STEEL. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR'S FIELD REPRESENTATIVE.
- THE SPRINKLER CONTRACTOR SHALL PERFORM A CERTIFIED FLOW TEST AS REQUIRED BY N.F.P.A. 13, APPENDIX B TO DETERMINE THE ADEQUACY OF THE WATER PRESSURE. PRIOR TO BID, COORDINATE WITH ARCHITECT/ENGINEER IF RESIDUAL WATER PRESSURE IS LOWER THAN THE DESIGN PRESSURE SPECIFIED ON DRAWINGS.

SPRINKLER SCHEDULE

ID	TYPE	DESCRIPTION	TEMP RATING	K FACTOR	ORFICE	AREAS OF USE	MAX COVERAGE AREA
A	UPRIGHT	QUICK RESPONSE	155°	5.6	1/2"	LIGHT/ORDINARY	PER NFPA
B	PENDANT	QUICK RESPONSE	155°	5.6	1/2"	LIGHT/ORDINARY	PER NFPA
C	CONCEALED	QUICK RESPONSE	155°	5.6	1/2"	LIGHT/ORDINARY	PER NFPA
D	SIDEWALL	DRY SPRIG	155°	5.6	1/2"	LIGHT/ORDINARY	PER NFPA

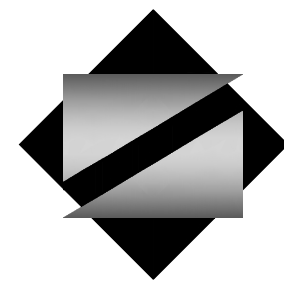
NOTES:

- EXPPOSED UPRIGHT HEADS IN OCCUPIED SPACES SHALL BE CHROME FINISH.
- PROVIDE ESCUTCHEONS WHEN PENETRATING EXPOSED WALL.
- PROVIDE SPRINKLER GUARDS AT ALL HEADS 7'-0" AND LOWER.
- COLOR/FINISH SELECTION BY ARCHITECT.
- SPRINKLER HEAD TEMPERATURE RATINGS SHALL BE PER NFPA 13 REQUIREMENTS.



SPRIINKLER SYSTEM DESIGN CRITERIA TAG

SCALE: N.T.S.



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SHEET CONTENTS:

FIRE PROTECTION
COVERSHEET

PROJECT TITLE:

ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

06.17.2026 ISSUED FOR BID

DATE REVISIONS REV

Date 05.01.26

Scale AS NOTED

Drawn by CTC

Checked by WAC

Job No. 25150

Drawing No.

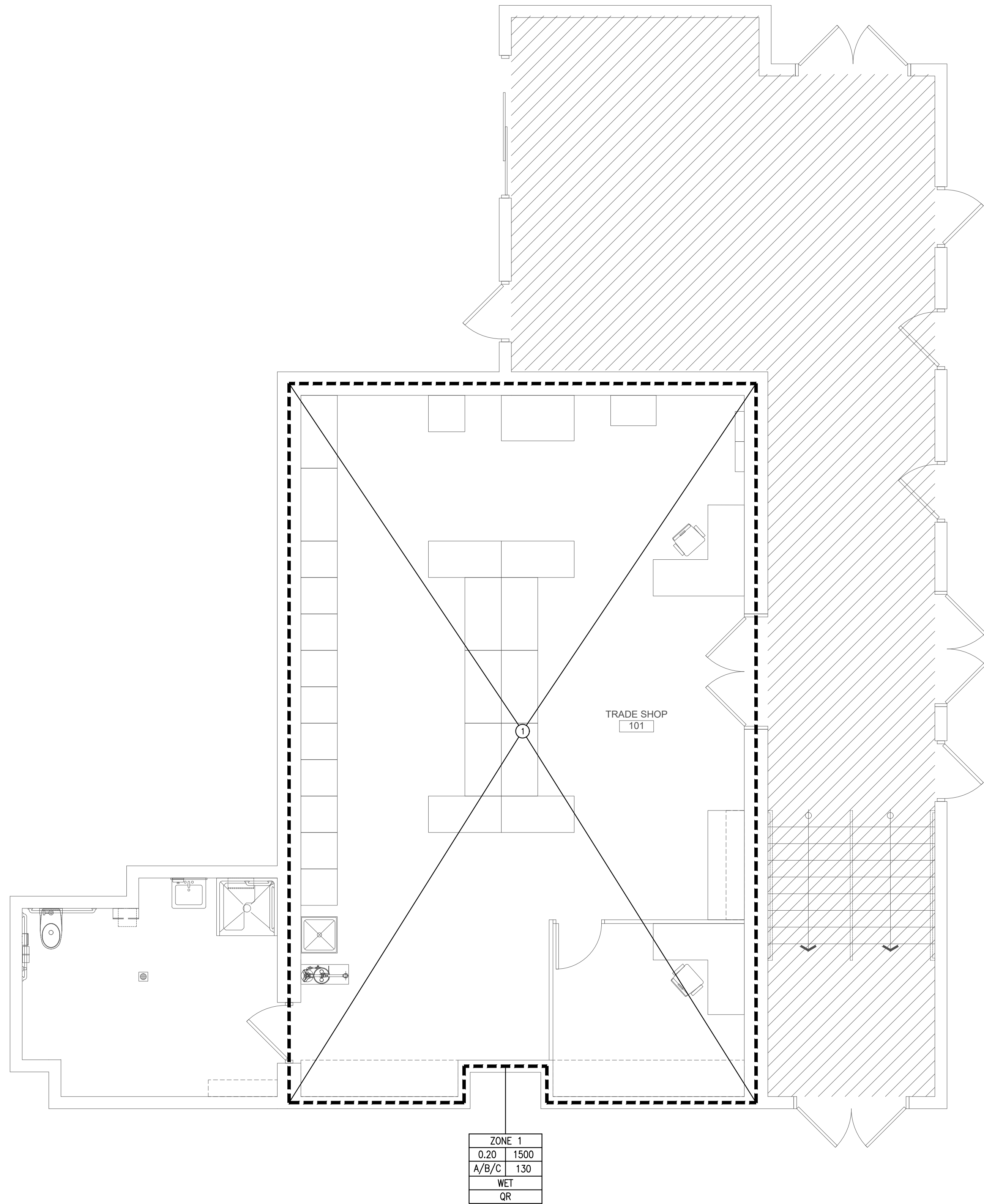
GENERAL FIRESTOPPING NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR EXCEEDING WALL/CEILING/FLOOR ASSEMBLY RATINGS FOR ALL PENETRATIONS. CONTRACTOR SHALL VERIFY LOCATION AND RATING OF ALL FIRE ASSEMBLIES AND PROVIDE INTUMESCENT COLLARS AT ALL PENETRATIONS AND FIRE RATED CAULKING AS REQUIRED.

NOTE:

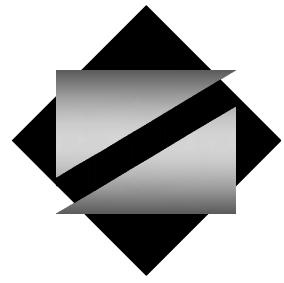
FIRE PROTECTION DESIGN SHALL BE BY THE PROJECT FIRE PROTECTION CONTRACTOR. THE INFORMATION SHOWN ON THESE DRAWINGS IS DIAGRAMMATIC AND FOR REFERENCE ONLY. COORDINATE ALL FIRE PROTECTION INSTALLATIONS WITH THE SIGNED AND SEALED DOCUMENTS PROVIDED BY THE FIRE PROTECTION CONTRACTOR.

FP-000



01 FIRE PROTECTION FIRST FLOOR PLAN — NEW WORK
SCALE: 1/4" = 1'-0"

KEY NOTES:
① REVISE/PROVIDE NEW SPRINKLER HEADS AS REQUIRED TO ACCOMMODATE NEW HAZARD OCCUPANCY. NEW SPRINKLER HEADS SHALL MATCH EXISTING SPRINKLER HEADS' MANUFACTURER AND MODEL. PROVIDE ALL ASSOCIATED APPURTENANCES REQUIRED TO MAKE CONNECTIONS FOR A COMPLETE WORKING NFPA 13 COMPLIANT SYSTEM.



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SHEET CONTENTS:

FIRE PROTECTION
FIRST FLOOR PLAN
NEW WORK

PROJECT TITLE:

ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT
1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

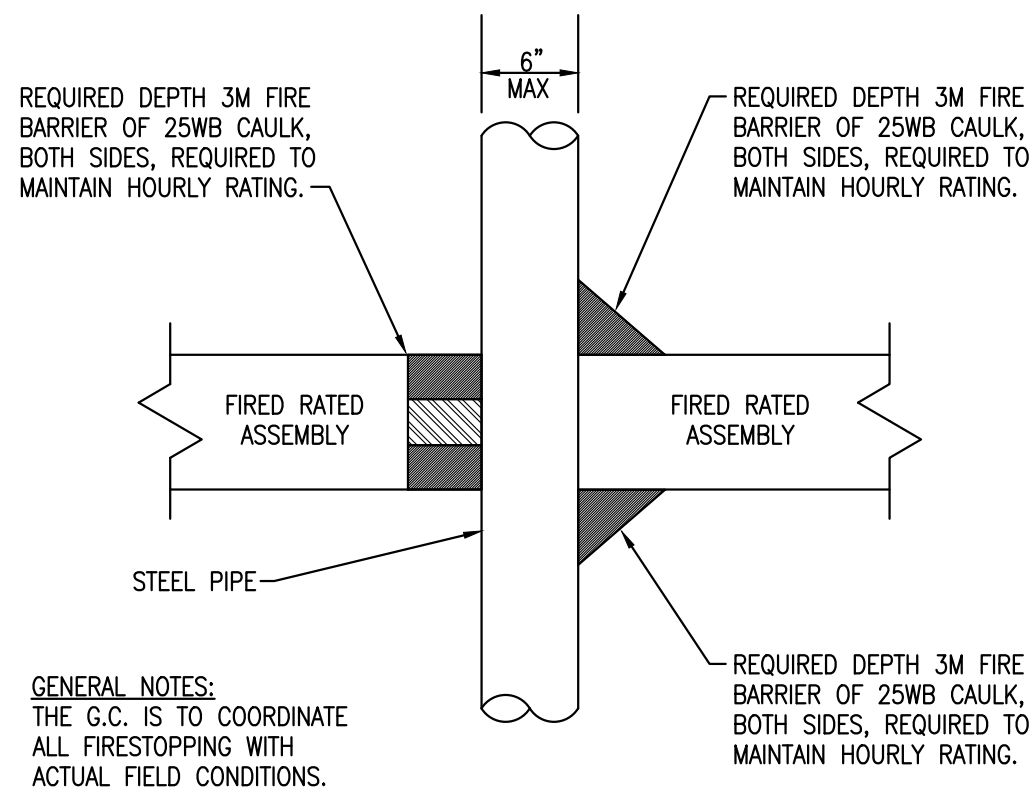
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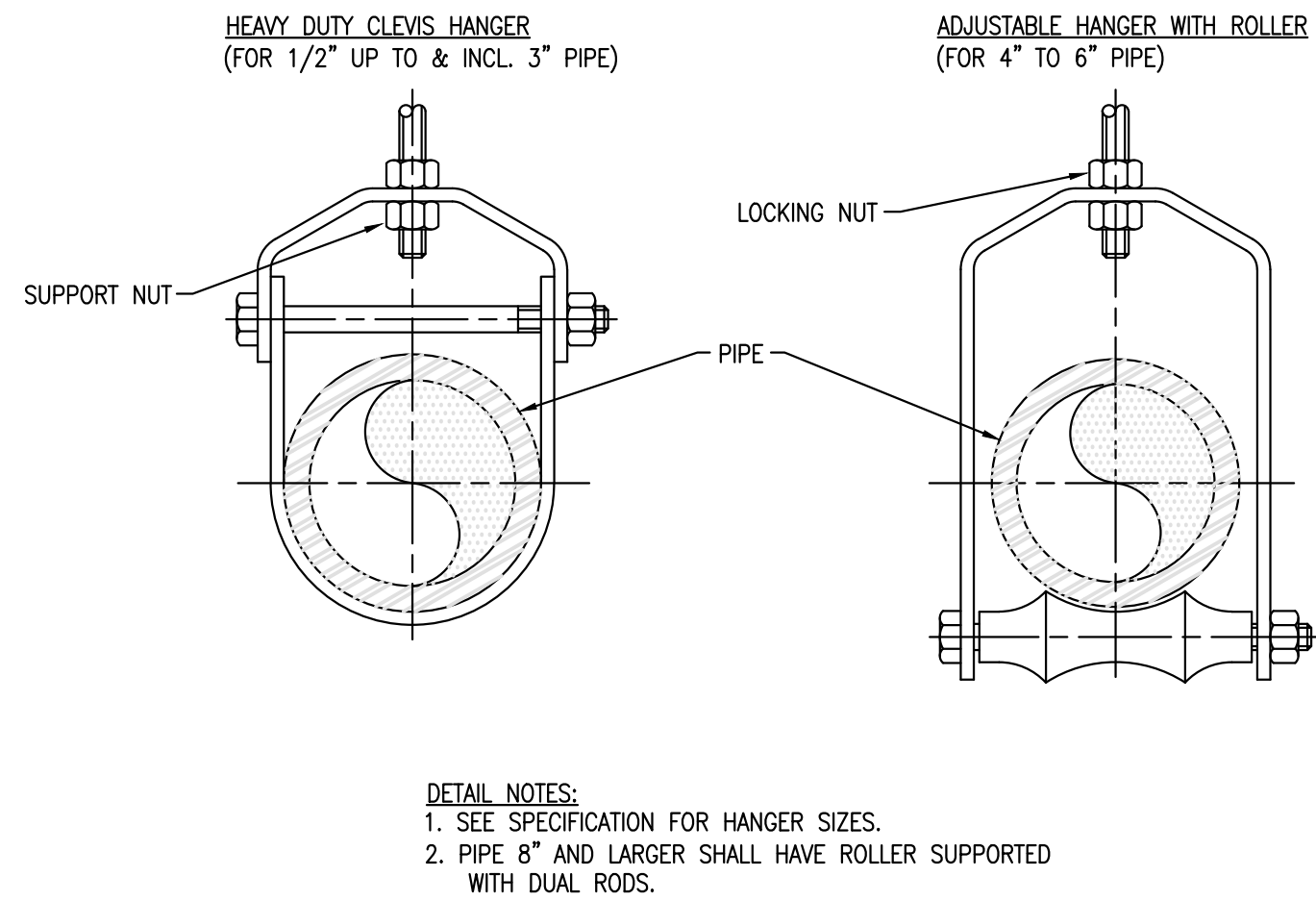
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Date	05.01.26
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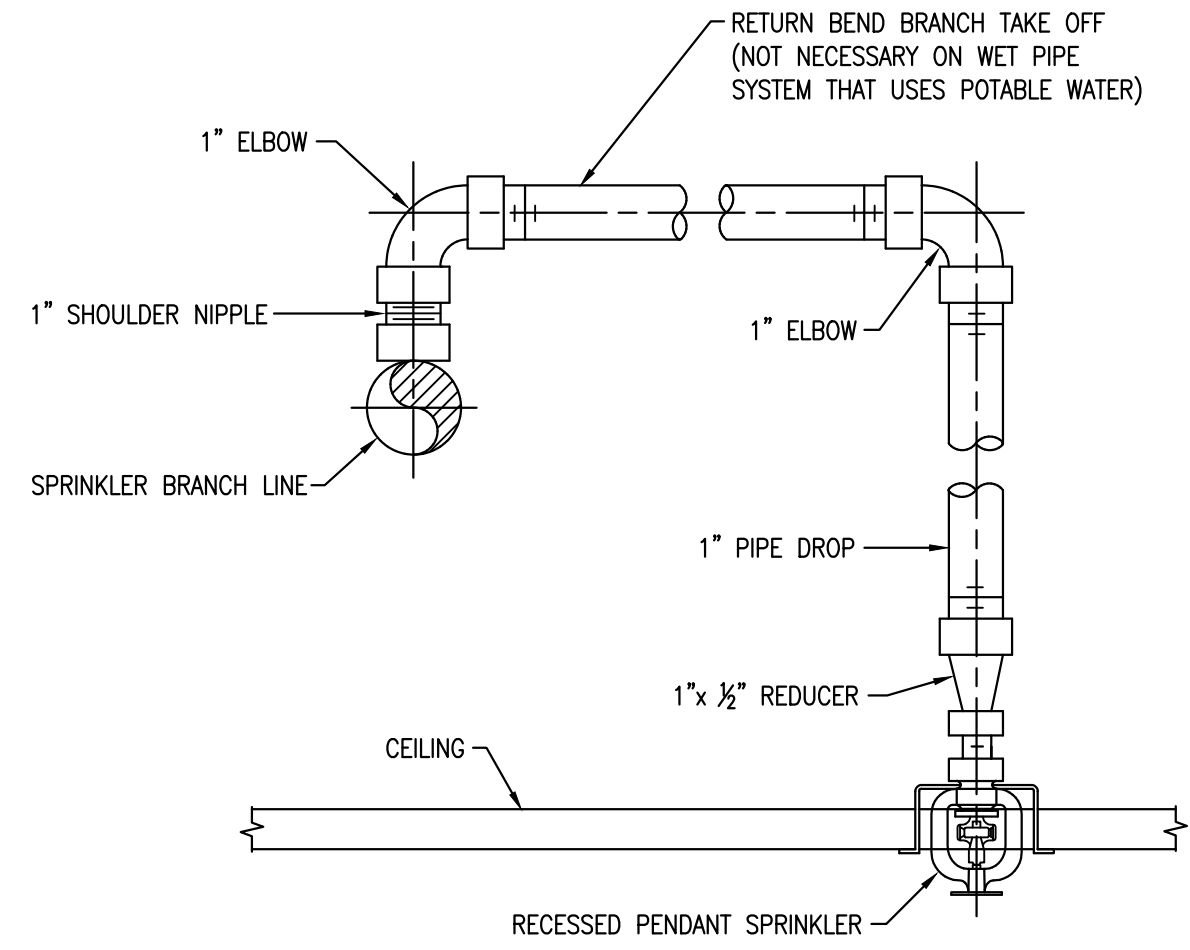
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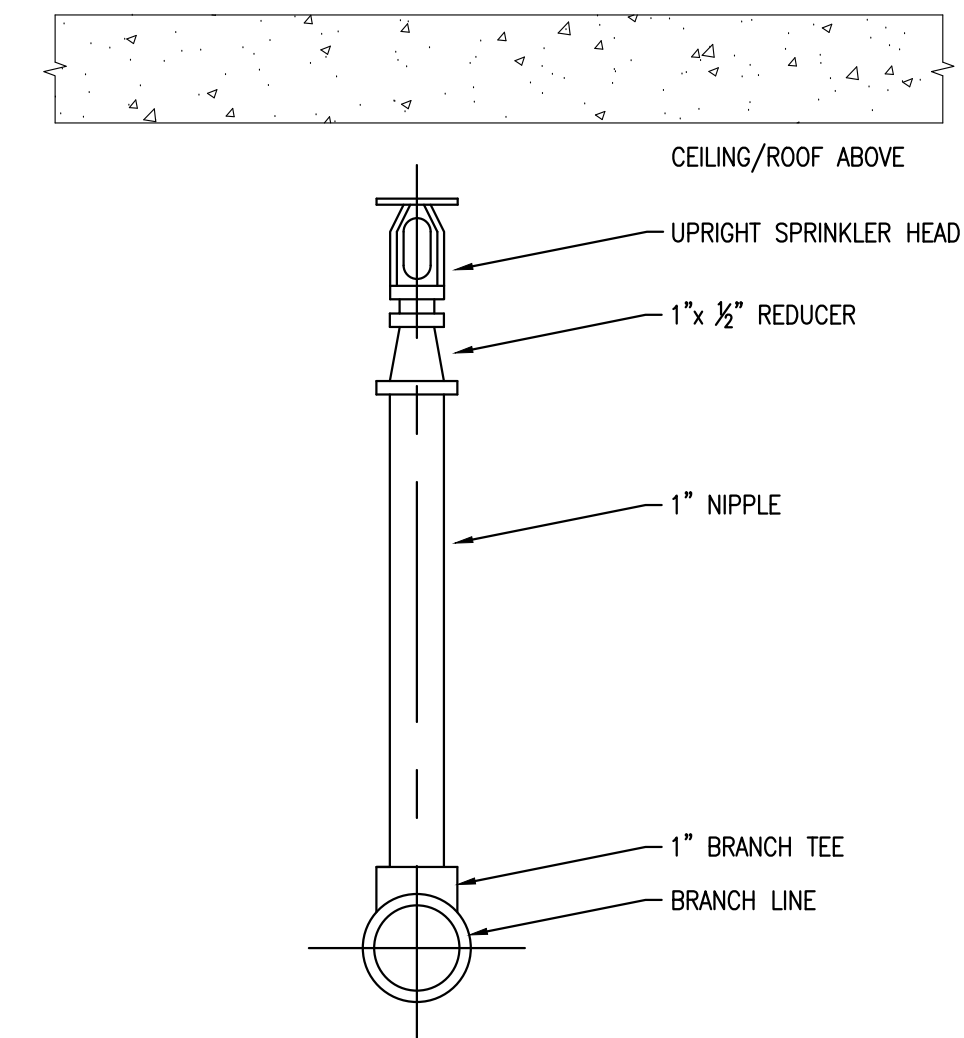
01 TYPICAL PIPE SLEEVE DETAIL
SCALE: N.T.S.



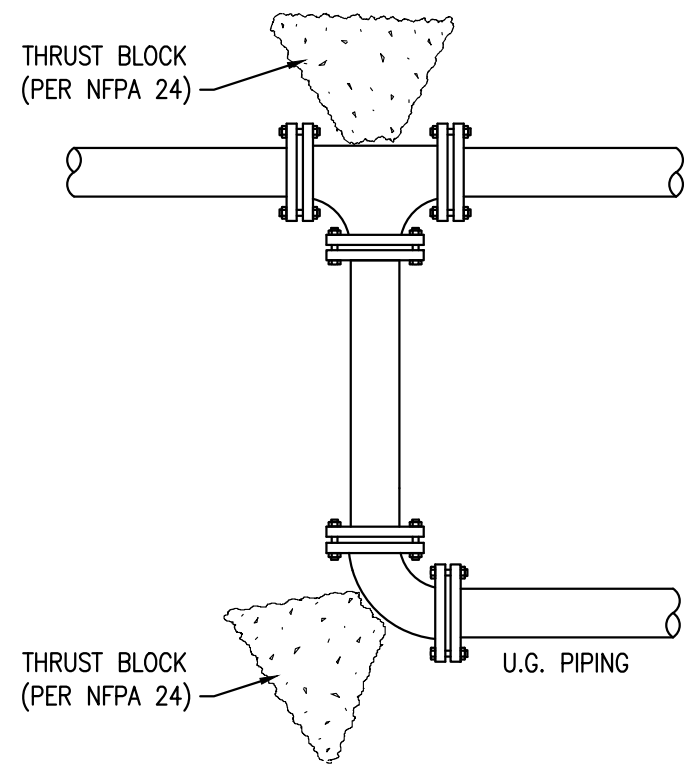
02 PIPE HANGER SUPPORT DETAIL
SCALE: N.T.S.



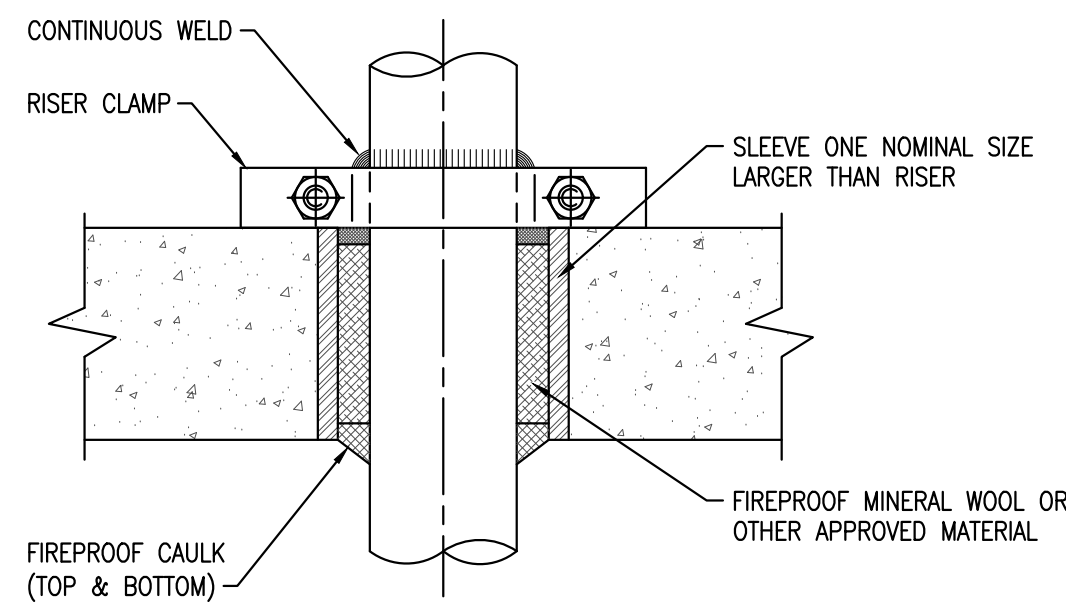
03 RECESSED PENDENT SPRINKLER HEAD PIPE DROP DETAIL
SCALE: N.T.S.



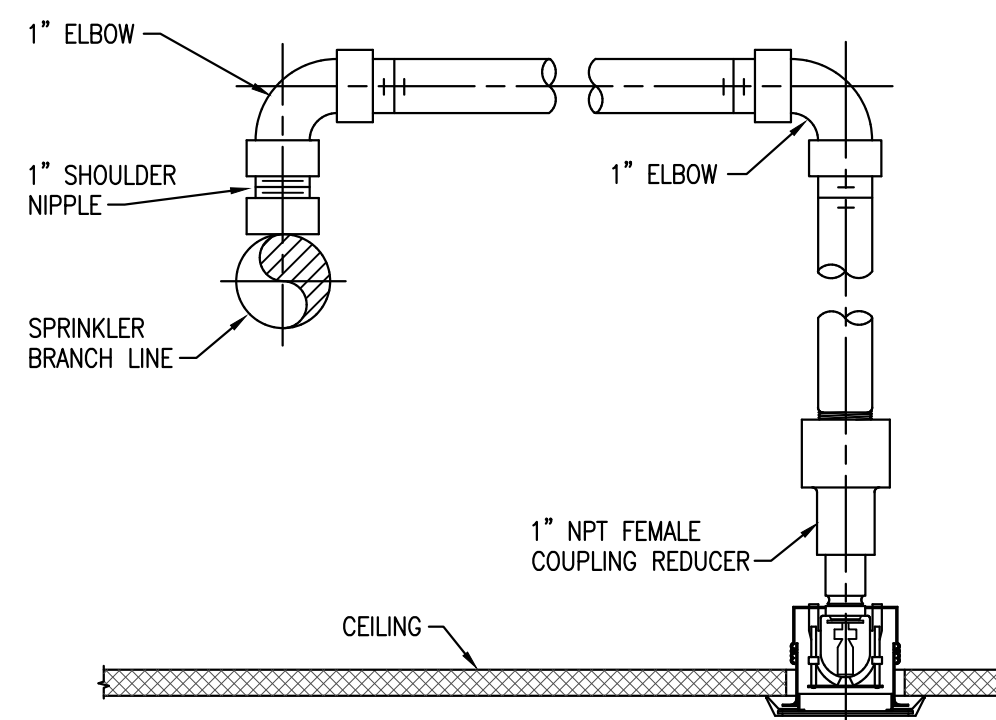
04 UPRIGHT SPRINKLER DETAIL
SCALE: N.T.S.



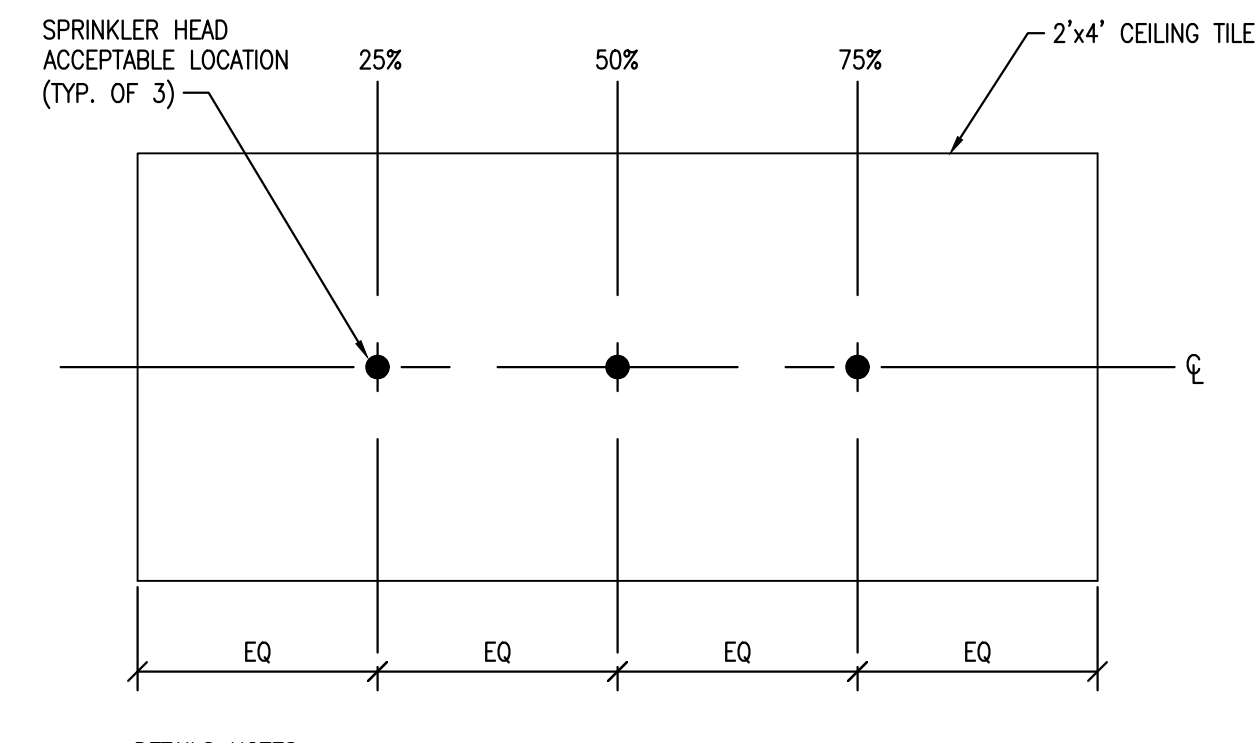
05 TYPICAL CONCRETE THRUST BLOCK DETAIL
SCALE: N.T.S.



06 PIPE RISER SUPPORT DETAIL
SCALE: N.T.S.

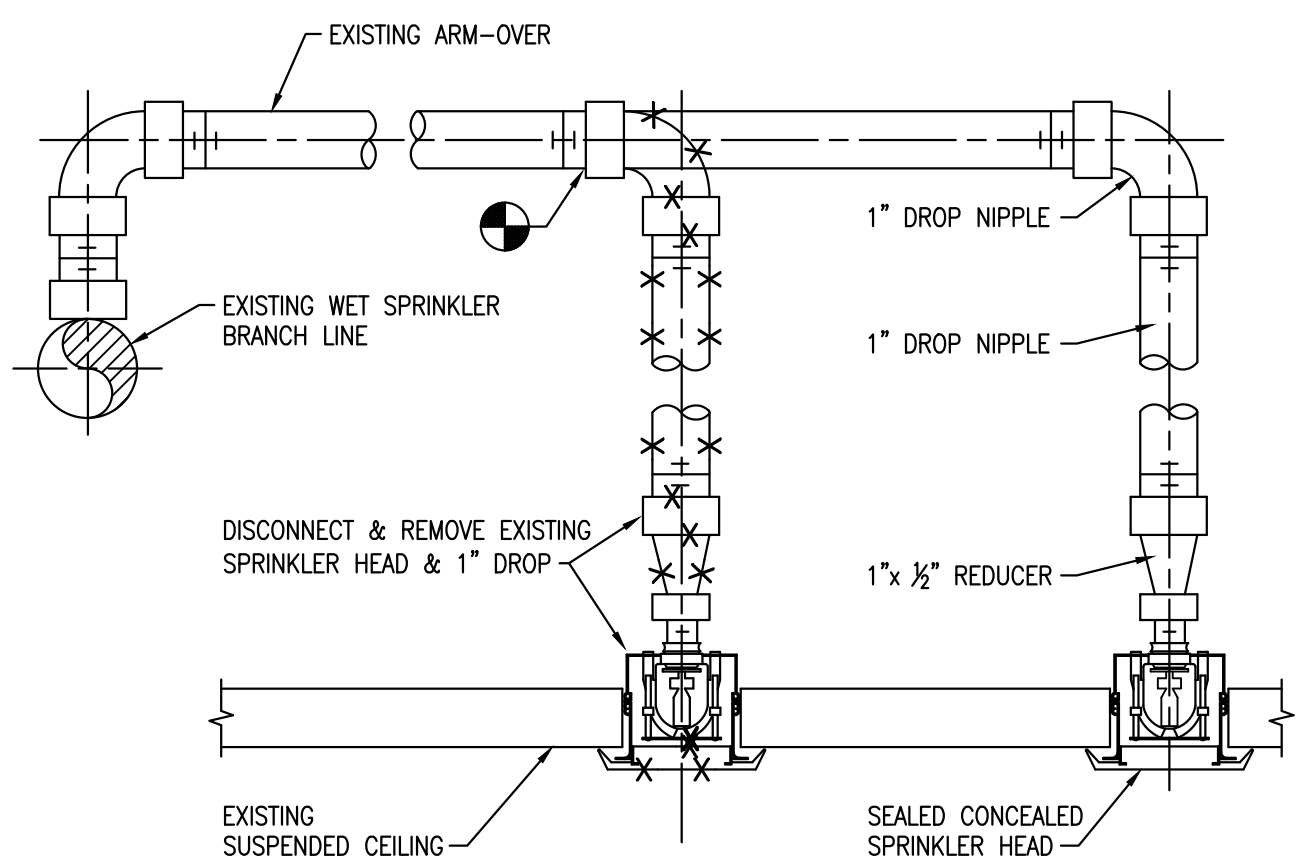


07 CONCEALED SPRINKLER HEAD PIPE DROP DETAIL
SCALE: N.T.S.

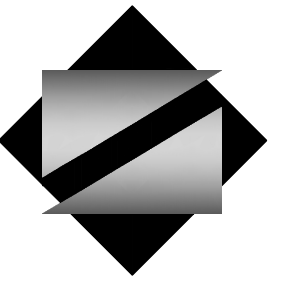


DETAILS NOTES:
1. SPRINKLER SHALL BE ALIGNED IN A TRUE AXIS LINE IN BOTH DIRECTIONS WITH A MAXIMUM DEVIATION OF 1/2 INCH. IN EITHER DIRECTION, U.O.N.

08 SPRINKLER HEAD LOCATION IN TILE DETAIL
SCALE: N.T.S.



09 CONCEALED SPRINKLER RELOCATION DETAIL
SCALE: N.T.S.



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SHEET CONTENTS:

**FIRE PROTECTION
DETAILS**

PROJECT TITLE:

**ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT**
1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

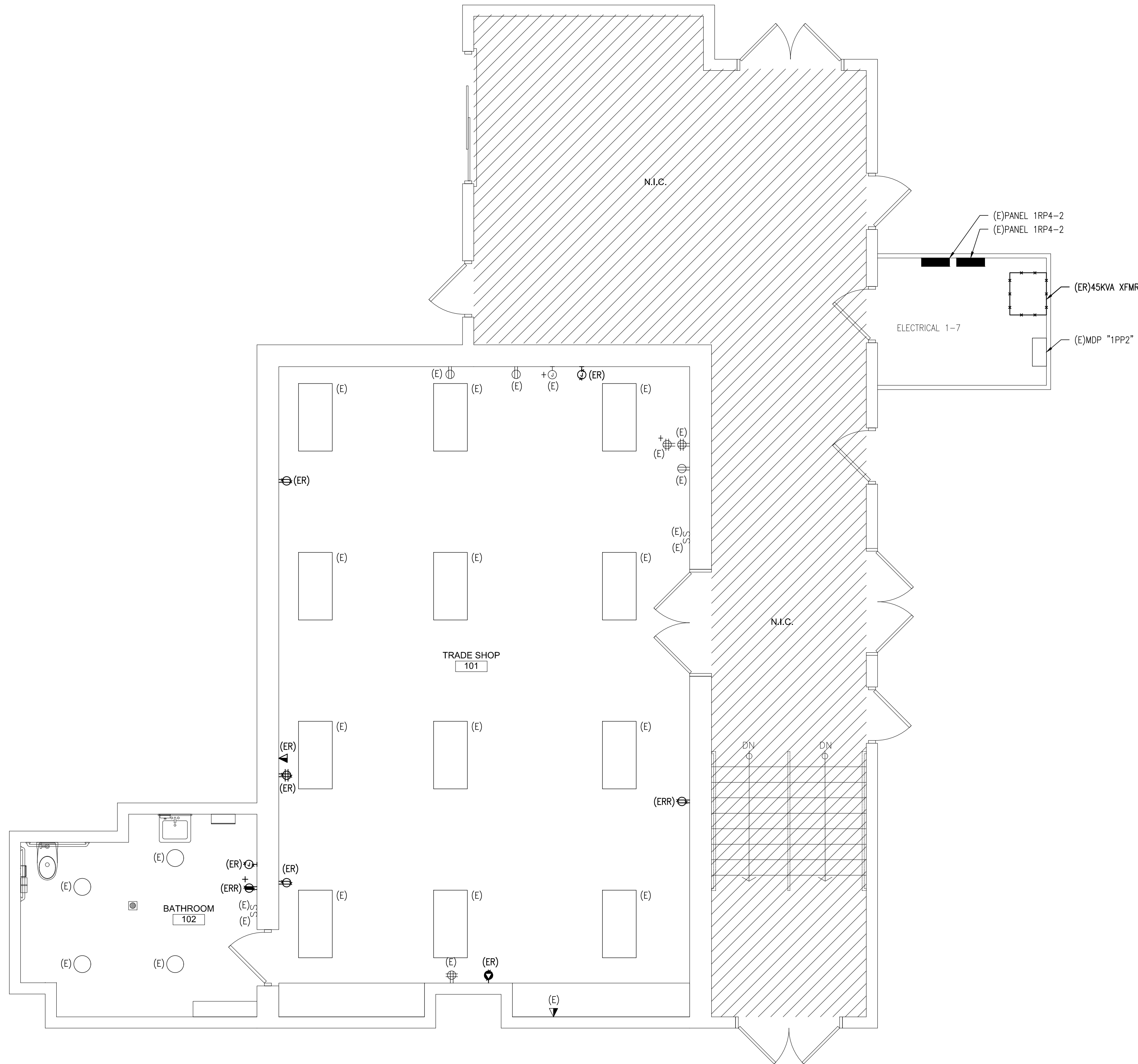
SUBMISSION:

06.17.2026	ISSUED FOR BID

DATE	REVISIONS	REV

Date	05.01.26
Scale	AS NOTED
Drawn by	CTC
Checked by	WAC
Job No.	25150
Drawing No.	

FP-200



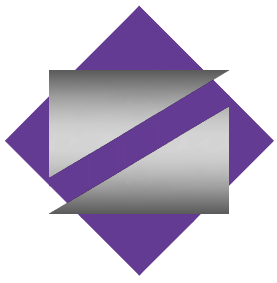
01 ELECTRICAL FIRST FLOOR PLAN – DEMOLITION
SCALE: 1/4" = 1'-0"

ELECTRICAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH RELOCATION AND REMOVAL OF ELECTRICAL WORK AS DESCRIBED IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN ISSUES WHEN CONCEALED WORK HAS BEEN EXPOSED. NO ADDITIONAL CLAIMS FOR WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, UNLESS, IN CERTAIN CASES, CONSIDERED JUSTIFIABLE BY THE ARCHITECT.
2. THE CONTRACTOR SHALL PERFORM REMOVAL AND DEMOLITION WORK WITH MINIMAL INTERFERENCE WITH EXISTING ELECTRICAL SYSTEMS. ALL AFFECTED ELECTRICAL SYSTEMS SHALL BE RESTORED AND RECONNECTED.
3. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR, PAINT OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
4. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL OUTLETS, SWITCHES, ETC., INCLUDING ASSOCIATED WIRING, CONDUITS, ETC., FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD.
5. THE CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ELECTRICAL AND ARCHITECTURAL LAYOUTS IN FULL COORDINATION WITH THE ARCHITECT'S DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED AND DISCONNECTED AT THE POWER SUPPLY SOURCE.
6. EXISTING PANELBOARD DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE CHANGED TO REFLECT THE BRANCH CIRCUIT WIRING MODIFICATIONS.
7. ALL UNUSED OUTLET BOXES OR CAPPED FLOOR OUTLETS SHALL BE PROVIDED WITH MATCHING BLANK COVERS.
8. ALL RACEWAYS WHICH ARE EXPOSED AS A RESULT OF NEW WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
9. PORTIONS OF FEEDER RUNS THAT SHALL BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING FEEDER EXTENSIONS IN ALL ASPECTS INCLUDING BUT NOT LIMITED TO CABLE TYPE, CONDUIT SIZES, CONDUCTOR AMPACITY, ETC.
10. FOR ALL EXISTING LIGHT FIXTURES TO REMAIN ("(E)") OR TO BE RELOCATED ("(RE)"), THE CONTRACTOR SHALL CLEAN ALL LENSES, REFLECTORS, TRIMS, ETC. AND REPLACE ALL LAMPS, DRIVERS AND BALLASTS AS REQUIRED. COORDINATE LAMP COLOR TEMPERATURES WITH OWNER AND ALL NEW LAMPING AND FIXTURES.
11. AS DIRECTED BY THE OWNER, ALL EXISTING EQUIPMENT AND MATERIAL IN USABLE CONDITION THAT IS REMOVED UNDER THIS CONTRACT SHALL REMAIN THE PROPERTY OF THE OWNER OR BE DISPOSED BY THE ELECTRICAL CONTRACTOR.
12. THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL FOLLOW CLOSELY THE ARCHITECT'S DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
13. THE SHUTDOWN OF EXISTING BUILDING ELECTRICAL SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE APPROPRIATE ARRANGEMENTS AT LEAST 14 DAYS PRIOR TO A SHUTDOWN.

KEY NOTES:

- 1 EXISTING LIGHTING AND CONTROLS TO REMAIN.



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SHEET CONTENTS:

ELECTRICAL
FIRST FLOOR PLAN
DEMOLITION

PROJECT TITLE:

ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

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Scale AS NOTED

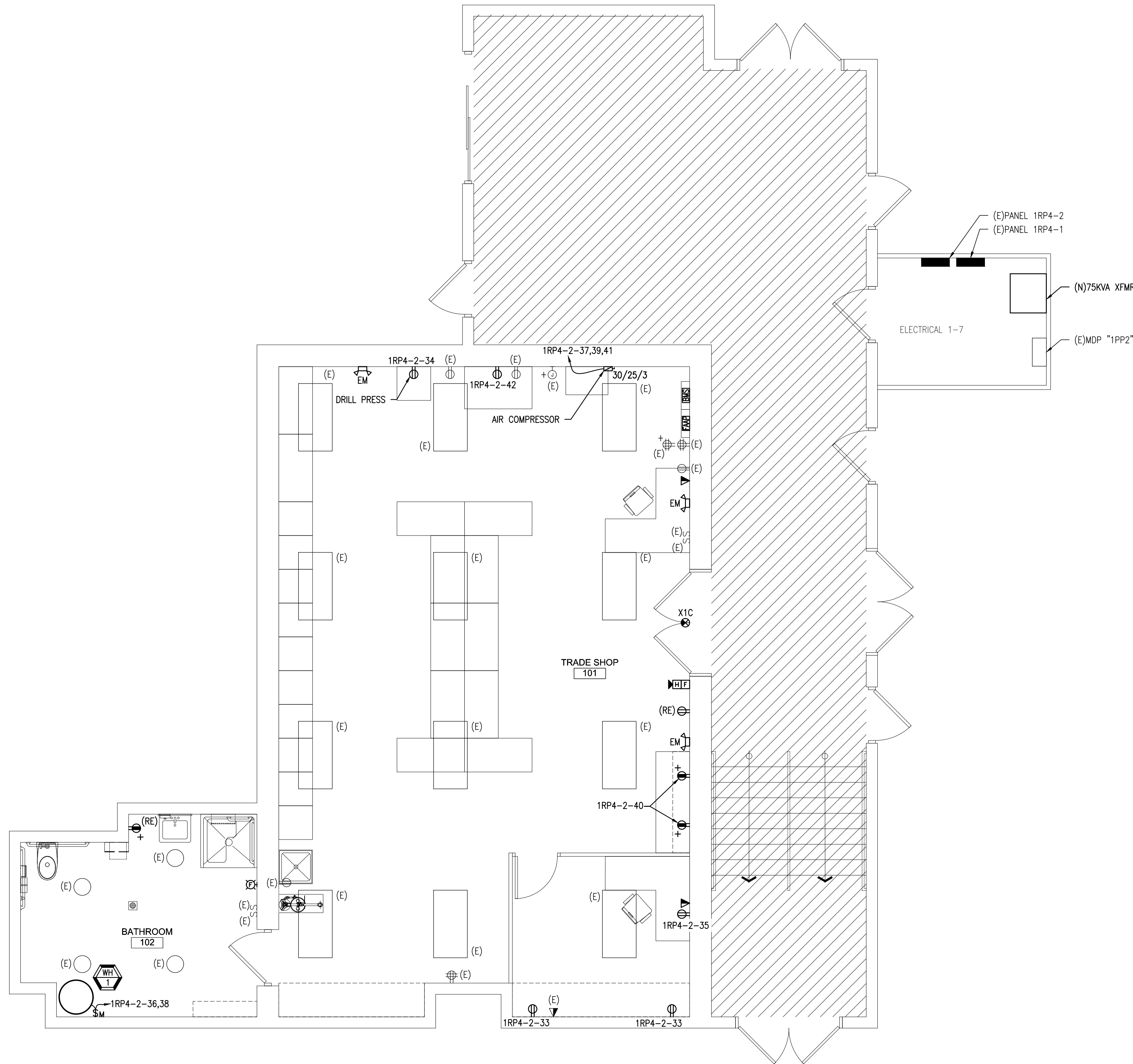
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Checked by KC

Job No. 25150

Drawing No.

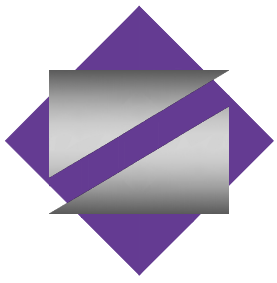
E-100



01 ELECTRICAL FIRST FLOOR PLAN – NEW WORK
SCALE: 1/4" = 1'-0"

DRAWING NOTES:

1. A 24" MINIMUM SEPARATION SHALL BE MAINTAINED BETWEEN SINGLE AND TWO-GANG RECESSED DEVICE BOXES INSTALLED ON OPPOSITE SIDES OF ANY 2-HOUR (MAXIMUM) FIRE-RATED WALL/PARTITION. PROVIDE FIREPROOFING PUTTY PACKS OR OTHER FIREPROOFING LISTED FOR THIS PURPOSE WHERE REQUIRED BY SECTION 714.4.2 OF THE INTERNATIONAL BUILDING CODE. DO NOT INSTALL FLUSH-MOUNTED PANELBOARD BACK BOXES IN FIRE RATED WALLS. ALL EQUIPMENT AND DEVICES ARE NEW UNLESS OTHERWISE NOTED.
2. CONFIRM ALL DEVICE AND EQUIPMENT LOCATIONS WITH THE ARCHITECT AND OWNER PRIOR TO ANY PURCHASE OR ROUGH-IN.
3. CONFIRM ALL POWER OVERCURRENT PROTECTION, WIRING AND DEVICE/DISCONNECT REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ROUGH-IN AND REPORT ANY DISCREPANCY WITH THE DESIGN TO THE ARCHITECT AND OWNER FOR RESOLUTION.
4. PROVIDE ALL DISCONNECT SWITCHES AS HEAVY-DUTY TYPE RATED WITH VOLTAGE AS REQUIRED AND AMPS, FUSING AND POLES AS INDICATED. DISCONNECT SWITCHES FOR INTERIOR EQUIPMENT SHALL BE NEMA 1 RATED UON. DISCONNECT SWITCHES FOR EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF LOCKABLE HEAVY DUTY TYPE, NEMA 3R UON.
5. COORDINATE ALL MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS AND CONNECTIONS PRIOR TO ANY PURCHASE OR ROUGH-IN.
6. CONTRACTOR SHALL CLOSELY COORDINATE AND ADJUST ALL HVAC EQUIPMENT LOCATIONS WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN SUCH THAT LIGHTING LAYOUT REMAINS AS INDICATED.
7. PRE-MANUFACTURED METAL-CLAD CABLE (MC) MAY BE UTILIZED FOR ALL NORMAL BRANCH CIRCUITS IN DRY HOLLOW STUD WALL LOCATIONS, ABOVE ACCESSIBLE CEILINGS AND WHERE PERMITTED BY ARTICLE #330 OF THE NATIONAL ELECTRICAL CODE ONLY. MINIMUM CONDUCTOR SIZE SHALL BE NO. 12 AWG COPPER WITH INTEGRAL GREEN INSULATED CONTINUOUS GROUND CONDUCTOR AND BARE BONDING CONDUCTOR IN DIRECT CONTACT WITH OUTER METAL JACKET.
8. COORDINATE ROUTING OF ALL CONDUIT, CABLING, ETC. THROUGH CASEWORK W/CASEWORK INSTALLER PRIOR TO ANY PURCHASE OR ROUGH-IN.
9. THESE DRAWINGS HAVE BEEN MADE BASED ON A VISUAL INSPECTION OF THE EXISTING SURFACES. SOME ASSUMPTIONS HAVE BEEN MADE AS TO ACTUAL CONSTRUCTION, MATERIALS, AND METHODS. THE INSTALLER SHALL BE RESPONSIBLE FOR VERIFYING ALL ACTUAL FIELD CONDITIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, CONFLICTS, AND UNFORESEEN CONDITIONS.
10. EC SHALL FIRE CAULK ALL EXISTING AND NEW CONDUIT PENETRATIONS IN FIRE WALLS WITHIN CONTRACT AREA TO MAINTAIN FIRE WALL RATING.
11. COORDINATE FINAL LOCATIONS OF ALL TELECOM OUTLETS AND RECEPTACLES FOR DESKS WITH ARCH, OWNER AND OWNERS FURNITURE PACKAGE PROVIDER PRIOR TO PURCHASE OR ROUGH-IN.
12. PROVIDE LOCKABLE, EXTRA-DUTY, IN-USE WEATHERPROOF (WP), METALLIC COVER, SIMILAR TO HUBBELL TAYMAC ML3200 FOR ALL EXTERIOR RECEPTACLES. (FOR RESIDENTIAL DECKS, FOOD SERVICE WASH-DOWN AREAS AND SIMILAR APPLICATIONS WHERE PUBLIC CAN'T ACCESS THE DEVICE, CONSIDER THE EXPANDABLE TYPE, COMMERCIAL-GRADE, EXTRA-DUTY, IN-USE, WEATHERPROOF TYPE, SIMILAR TO HUBBELL TAYMAC ML500G (GRAY), ML500W WHITE) OR ML500Z (BROWN).
13. ALL CONDUITS TRAVELING FROM OUTDOORS TO INDOORS AND FROM A WARM ENVIRONMENT TO COLD SHALL BE VAPOR SEALED TO PREVENT CONDENSATION BUILDUP. THE SEAL SHALL BE A CONDUIT BODY OR JUNCTION BOX LOCATED ON THE HIGH TEMPERATURE SIDE OF THE TRANSITION SEALED WITH ELECTRICAL DUCT SEAL OR A NON-LATEX CLOSED CELL, EXPANDING FOAM SEALANT LISTED FOR THE PURPOSE, INSTALLED IN THE CONDUIT ENTERING THE COLDER SPACE.
14. ALL ROOM CONTROLLERS AND POWER PACKS SHALL BE FED FROM THE SAME LIGHTING BRANCH CIRCUIT SERVING THE AREA AND SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
15. COORDINATE ALL LOW-VOLTAGE/TV OUTLET LOCATIONS WITH OWNERSHIP/ARCHITECT PRIOR TO ROUGH-IN.
16. CONNECT ALL EXIT SIGNS, INVERTERS, EMERGENCY WALL PACKS, AND EMERGENCY BATTERY BACK-UPS TO LOCAL CONSTANT HOT FEED AHEAD OF ANY SWITCHING UON.
17. ALL LIGHT FIXTURES INDICATED AS EMERGENCY ARE NORMAL/EMERGENCY OPERATION VIA NORMAL POWER W/BATTERY OR INVERTER BACK UP.
18. REFER TO DWG E-300 FOR THE LIGHT FIXTURE SCHEDULE.
19. LIGHTING CONTROLS SHALL BE TESTED BY THE EC IN ACCORDANCE WITH ASHRAE 90.1 SECTION 9.4.3
20. PROVIDE ALL ROOM CONTROLLERS AND/OR POWER PACKS FOR A FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM AND FEED FROM THE SAME LIGHTING BRANCH CIRCUIT SERVING THE AREA. ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
21. ALL WORK PROVIDED ON EXISTING FIRE ALARM SYSTEM SHALL BE PROVIDED BY OWNERS SERVICE COMPANY TO ENSURE PROPER OPERATION OF SYSTEM WHILE NOT VOIDING ANY EXISTING WARRANTY OR MAINTENANCE CONTRACTS. PROVIDE NEW FIRE ALARM DEVICES, WIRING AND APPURTENANCES AS INDICATED AND REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. NEW FIRE ALARM DEVICES SHALL BE FULLY COMPATIBLE WITH AND UL LISTED FOR OPERATION WITH THE EXISTING FIRE ALARM SYSTEM. ALL CABLING AND SPICES SHALL BE IN ACCORDANCE WITH NEC 760 – COORDINATE ALL PLENUM SPACES WITH ARCHITECT & GC. TIE FIRE ALARM DEVICES INTO EXIST BUILDING FIRE ALARM SYSTEM AND PROVIDE ALL DOCUMENTATION/SHOP DRAWINGS, PROGRAMMING/TESTING AND ANY OTHER WORK/EQUIPMENT/INFORMATION IN ACCORDANCE WITH ALL APPLICABLE CODES AND TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.



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ELECTRICAL
FIRST FLOOR PLAN
NEW WORK

PROJECT TITLE:

ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT
1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

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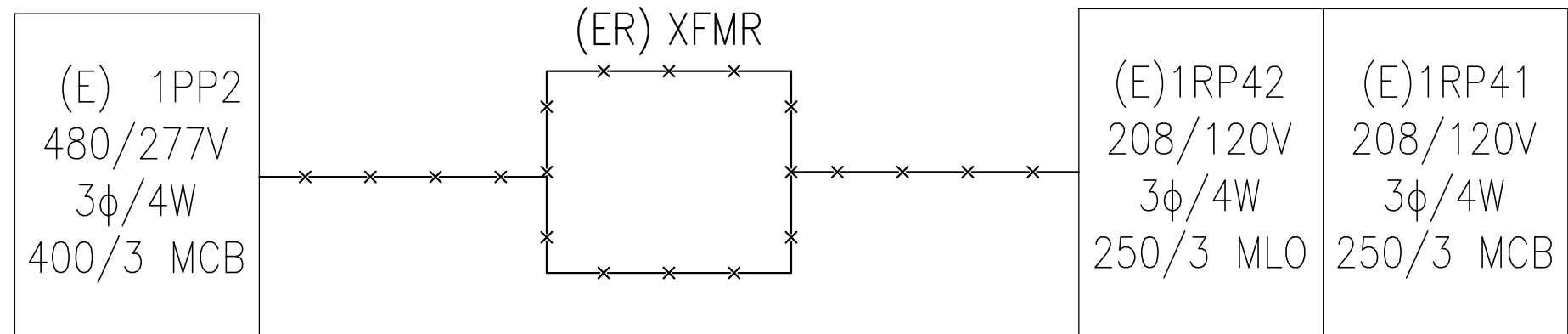
Date	05.01.26
Scale	AS NOTED
Drawn by	MM
Checked by	KC
Job No.	25150
Drawing No.	

E-200

PANEL:		(E) 1RP4-1		208/120 VOLTS,		3 PHASE		4 WIRE		MAIN BUS 250 AMPS		
LOCATION:		ELECTRICAL 1-7		MOUNTING:		☒ SURFACE		☐ FLUSH		MAIN BRK 225 AMPS 3 P		
BUILDING:		AC CONVENTION CENTER - TRADE SHOP		BUS		☐ COPPER		☐ ALUMINUM		NEUTRAL 100% A/C		
FED FROM:		SEE SINGLE LINE DIAGRAM		GROUND BUS		☐		☐ THRU-FEED LUGS		☐ LUGS ONLY		
FEEDER SIZE:		SEE SINGLE LINE DIAGRAM		ISOL GND. BUS		☐		☐ INTEGRAL SPD				
CKT NO	TRIP AMPS	DESCRIPTION OF LOAD	MIN WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	MIN WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO
					A	B	C					
1	20/1	(E) LOAD	2A	0	0			0	2A	(E) LOAD	20/1	2
3	20/1	(E) LOAD	2A	0		0		0	2A	(E) LOAD	20/1	4
5		(E) SPARE		0				0	2A	(E) LOAD	20/1	6
7	20/1	(E) LOAD	2A	0	0			0	2A	(E) LOAD	20/1	8
9	20/1	(E) LOAD	2A	0		0		0	2A	(E) LOAD	20/1	10
11	20/1	(E) LOAD	2A	0			0	0	2A	(E) LOAD	20/1	12
13		(E) SPARE		0	0			0	2A	(E) LOAD	20/1	14
15	20/1	(E) LOAD	2A	0		0		0	2A	(E) LOAD	20/1	16
17	20/1	(E) LOAD	2A	0				0		(E) SPARE		18
19	20/1	(E) LOAD	2A	0	0			0	2A	(E) LOAD	20/1	20
21	20/1	(E) LOAD	2A	0		0		0	2A	(E) LOAD	20/1	22
23	20/1	(E) LOAD	2A	0				0	2A	(E) LOAD	20/1	24
25	30/1	(E) LOAD	2A	0		0		0	2A	(E) LOAD	20/1	26
27	30/1	(E) LOAD	2A	0			0	0	2A	(E) SPARE	20/2	28
29	30/1	(E) LOAD	2A	0			0	0				30
31	30/1	(E) LOAD	2A	0	0			0	2A	(E) LOAD	20/1	32
33	20/1	(E) LOAD	2A	0		0		0	2A	(E) LOAD	20/1	34
35	20/1	(E) LOAD	2A	0				0	2A	(E) LOAD	20/1	36
37	35/1	(E) LOAD	2A	0	0			0	2A	(E) LOAD	20/1	38
39	20/1	(E) LOAD	2A	0			0	0	2A	(E) LOAD	20/1	40
41	20/1	(E) LOAD	2A	0			0	0	2A	(E) LOAD	20/1	42
CONNECTED x FACTOR = DEMAND					TOTAL BY PHASE							
TOTAL LTG. 0 1.25 0					0 0 0							
TOTAL CONT. 0 1.25 0								SPARE = 0%				
TOTAL NON-C 0 1.00 0								TOTAL DEMAND LOAD = 0 VA				
TOTAL REC. 0 Per NEC 0								TOTAL AMPS = 0.0 AMPS				
TOTAL A/C 0 0.00 0												
TOTAL HTG 0 1.00 0												
TOTAL CONN 0 0 0												

LIGHT FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER/ CATALOG #	LAMP DATA			FIXT WATTS	FIXT VOLTS	MOUNTING	REMARKS
			QTY	TYPE	WATTS				
EM	LED EMERGENCY WALLPACK	LITHONIA LIGHTING #ELM2	INCL	LED	1	1	120	SURFACE	
X1	LED THERMOPLASTIC EXIT SIGN W/ BATTERY BACKUP	LITHONIA LIGHTING #EXRG EL M6	INCL	LED	1	1	120/277	SEE PLANS	E=END, C=CLG, W=WALL, P=PENDANT. PROVIDE W/RED LED LAMP, WHITE HOUSING, NI-CAD BATTERY, CHEVRONS INDICATED ON PLANS. NUMBER OF FACES INDICATED ON PLANS AND ALL APPURTENANCES AS REQUIRED FOR PLAN-SPECIFIED MOUNTING.

NOTES:
1. XXX



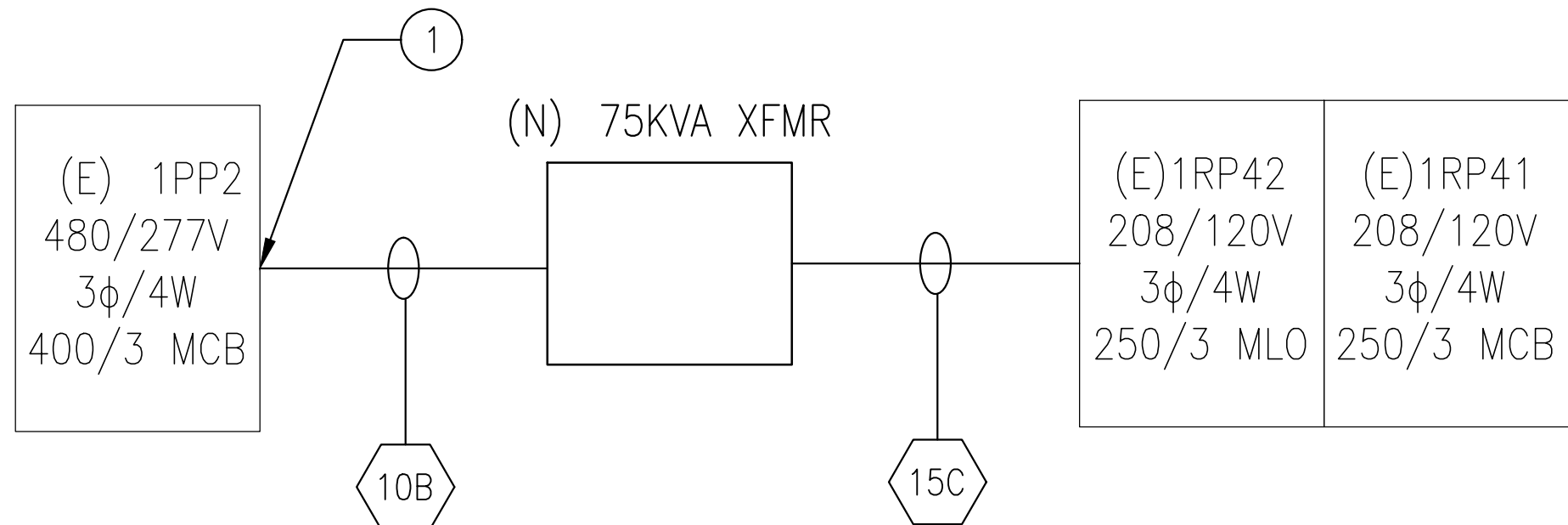
01

ELECTRICAL PARTIAL SINGLE LINE DIAGRAM — DEMOLITION
SCALE: NTS

PANEL:		(E) 1RP4-2		208 /120 VOLTS,		3 PHASE		4 WIRE		MAIN BUS 250 AMPS		
LOCATION:		ELECTRICAL 1-7		MOUNTING: BUS GROUND BUS ISOL GND. BUS		☒ SURFACE ☐ COPPER		☐ FLUSH ☐ ALUMINUM ☐ THRU-FEED LUGS ☐ INTEGRAL SPD		MAIN BRK _____ AMPS _____ P NEUTRAL 100% A/C _____ ☒ LUGS ONLY		
BUILDING:		AC CONVENTION CENTER - TRADE SHOP										
FED FROM:		SEE SINGLE LINE DIAGRAM										
FEEDER SIZE:		SEE SINGLE LINE DIAGRAM										
CKT NO	TRIP AMPS	DESCRIPTION OF LOAD	MIN WIRE & COND SIZE	LOAD (VA)	PER PHASE (VA)			LOAD (VA)	MIN WIRE & COND SIZE	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO
					A	B	C					
1	20/1	(E) LOAD	2A	0	0			0	2A	(E) LOAD	20/2	2
3	20/1	(E) LOAD	2A	0		0		0				4
5	20/1	(E) LOAD	2A	0			0	0	2A	(E) LOAD	20/1	6
7	20/1	(E) LOAD	2A	0	0			0	2A	(E) LOAD	20/1	8
9	20/1	(E) LOAD	2A	0		0		0	2A	(E) LOAD	20/1	10
11	20/1	(E) LOAD	2A	0			0	0	2A	(E) LOAD	20/1	12
13	20/1	(E) LOAD	2A	0	0			0	2A	(E) LOAD	20/1	14
15	20/1	(E) LOAD	2A	0		0		0	2C	(E) LOAD	20/3	16
17	20/1	(E) LOAD	2A	0			0	0				18
19	20/1	SPARE	2A	0	0			0				20
21	80/3	(E) LOAD	2C	0		0		0	2A	(E) LOAD	20/1	22
23				0			0	0	2A	(E) LOAD	20/1	24
25				0	0			0	2A	(E) LOAD	20/1	26
27	20/1	(E) LOAD	2A	0		0		0	2A	(E) LOAD	20/1	28
29	20/1	(E) LOAD	2A	0			0	0	2A	(E) LOAD	20/1	30
31	20/1	(E) LOAD	2A	0	0			0	2A	(E) LOAD	20/1	32
33	20/1	(N) OFFICE RECS	2A	360		1140		780	2A	(N) DRILL PRESS	20/1	34
35	20/1	(N) OFFICE RECS	2A	180			2930	2750	4B	(N) WH-1	40/2	36
37	35/3	(N) AIR COMPRESSOR	2A	1560	4310			2750				38
39				1560		1920		360	2A	(N) GFCI RECS	20/1	40
41				1560			3480	1920	2A	(N) RECEPTACLE	20/1	42
CONNECTED x FACTOR = DEMAND TOTAL BY PHASE												
TOTAL LTG.		0	1.25	0	4310	3060	6410	SPARE = 20%				
TOTAL CONT.		0	1.25	0								
TOTAL NON-C		12880	1.00	12880	TOTAL DEMAND LOAD = 16536 VA							
TOTAL REC.		900	Per NEC	900	TOTAL AMPS = 45.9 AMPS							
TOTAL A/C		0	0.00	0								
TOTAL HTG		0	1.00	0								
TOTAL CONN		13780		13780								

KEY NOTES:

① FED FROM NEW 100A/3P CB IN EXISTING MDP "1PP2."

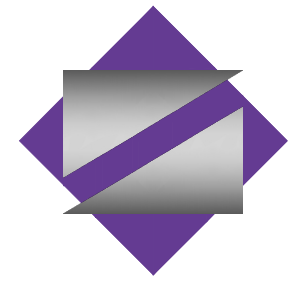


02

ELECTRICAL PARTIAL SINGLE LINE DIAGRAM — NEW WORK
SCALE: NTS

WIRE AND CONDUIT SIZING SCHEDULE (ALUMINUM)									
		WIRE SIZE (AWG/KCML)		NO. OF WIRES & CONDUIT SIZE IN INCHES					
AMPS	TAGS	CONDUCTOR PHASE & NEUTRAL	GROUND	A 1PH, 2W+G	B 1PH/3PH, 3W+G	C 3PH, 4W+G			
15	1	12	12	3/4	3/4	3/4			
20	2	12	10	3/4	3/4	3/4			
30	3	10	8	3/4	3/4	3/4			
40	4	8	8	3/4	3/4	3/4			
50	5	6	8	3/4	1	1			
60	6	4	8	1	1 1/4	1 1/4			
70	7	3	6	1	1 1/4	1 1/4			
80	8	2	6	1 1/4	1 1/4	1 1/4			
90	9	2	6	1 1/4	1 1/4	1 1/4			
100	10	1	6	1 1/2	2	2			
125	11	2/0	4	2	2 1/2	2 1/2			
150	12	3/0	4	2	2 1/2	2 1/2			
175	13	4/0	4	2 1/2	2 1/2	2 1/2			
200	14	250	4	2 1/2	3	3			
225	15	300	2	3	3	3 1/2			
250	16	350	2	3	3	3 1/2			
275	17	500	2	3 1/2	3 1/2	4			
300	18	500	2	3 1/2	3 1/2	4			
350	19	600	1	3 1/2	4	5			
400	20	750	1	4	4	5			
450	21	(2) 300	(2) 1/0		(2) 3	(2) 3 1/2			
500	22	(2) 350	(2) 1/0		(2) 3	(2) 3 1/2			
600	23	(2) 500	(2) 2/0		(2) 2 1/2	(2) 3			
700	24	(2) 600	(2) 3/0		(2) 4	(2) 5			
800	25	(2) 750	(2) 3/0		(2) 4	(2) 5			
1000	26	(4) 350	(4) 4/0		(4) 2	(4) 3 1/2			
1100	27	(4) 500	(4) 250		(4) 2	(4) 3 1/2			
1200	28	(4) 500	(4) 250		(4) 3 1/2	(4) 4			
1500	29	(4) 750	(4) 350		(4) 4	(4) 4			
1600	30	(5) 600	(5) 350		(4) 4	(4) 4			
1900	31	(8) 350	(8) 400		(8) 3	(8) 3 1/2			
2000	32	(8) 350	(8) 400		(8) 3	(8) 3 1/2			
2500	33	(7) 750	(7) 600		(8) 3 1/2	(8) 4			
3000	34	(8) 750	(8) 600		(8) 4	(8) 5			

NOTE:
THE ABOVE SCHEDULE IS BASED ON 600 VOLT AL WIRE,
TYPE THHN/XHHW AND EMT/RGS CONDUIT
EX: (2A) = 2#12+1#12G, 3/4" C.



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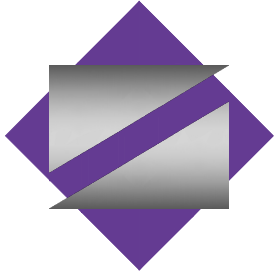
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SHEET CONTENTS:

- 200,000 AMP IC SHALL BE SIMILAR TO LIMITRON KTN, KTS, OR KTU (UL CLASS R UP TO 600 AMP; CLASS L OVER 600 AMP). ALL FUSES SHALL BE PROVIDED BY SAME MANUFACTURER. PROVIDE 1 SPARE MATCHING FUSE FOR EACH SET OF 3.
14. RACEWAYS
15. WIRE AND CABLE
16. POWER WIRING
17. CONTROL WIRING
18. DEVICES
19. PHOTOCONTROL
20. RECEPTACLE ORIENTATION
21. LIGHTING CONTROLS (SEE SCHEDULES/NOTES ON DRAWINGS)
22. DEVICE PLATES (PICK ONE - #1 OR #2)
23. GROUNDING
24. DEVICE WIRING
25. ALL DEVICES SHALL BE SIDE-WIRED VIA SCREW TERMINALS - PUSH-IN



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SHEET CONTENTS:

ELECTRICAL
SPECIFICATIONS

PROJECT TITLE:
**ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT**

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

06.17.2026	ISSUED FOR BID

DATE	REVISIONS	REV

Date	05.01.26
Scale	AS NOTED
Drawn by	MM
Checked by	KC
Job No.	25150
Drawing No.	

E-401

WIRING (AKA "QUICKWIRE") THROUGH THE BACK OF THE DEVICE IS NOT AN ACCEPTABLE WIRING METHOD.

19. LIGHTING FIXTURES

- A. INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH NEC ARTICLE 410.
- B. PROVIDE ALL LIGHTING FIXTURES INDICATED, COMPLETE WITH LAMPS. INCLUDE ALL INTERIOR LIGHTING FIXTURES, AND ALL EXTERIOR FIXTURES MOUNTED ON THE BUILDING.
- C. FURNISH ALL PLASTER OR DRY WALL FRAMES AND DELIVER TO PROJECT SITE FOR INSTALLATION UNDER FINISHES, DIVISION 9.
- D. PROVIDE APPROPRIATE MOUNTING ACCESSORIES FOR EACH FIXTURE, COMPATIBLE WITH THE VARIOUS STRUCTURAL CONDITIONS THAT WILL BE ENCOUNTERED. PROVIDE FASTENING CLIPS (EARTHQUAKE CLIPS) FOR LIGHTING FIXTURES THAT ARE SUPPORTED FROM FRAMING MEMBERS OF SUSPENDED CEILINGS.
- E. ASSEMBLE, WIRE AND INSTALL ALL LIGHTING FIXTURES AT THEIR RESPECTIVE OUTLETS AS INDICATED AND ASSUME RESPONSIBILITY FOR THEIR CONDITION UNTIL ACCEPTANCE BY OWNER. INSTALL PROPER LAMPS IN EACH FIXTURE.
- F. FIXTURE CONNECTIONS TO BRANCH CIRCUITS SHALL BE MADE USING STRANDED WIRE WITH INSULATION TEMPERATURE RATING EQUAL TO OR HIGHER THAN THAT OR WIRE SUPPLIED WITH THE FIXTURE OR SPECIFIED BY FIXTURE MANUFACTURER. FIXTURES SHALL BE CONNECTED TO BRANCH CIRCUITS VIA JUNCTION BOX USING FLEXIBLE CONDUIT OF LENGTHS BETWEEN 4 FT. MINIMUM AND 6 FT. MAXIMUM.
- G. THE USE OF FLEXIBLE CONDUIT, TO FIXTURES IN ANY LENGTH OVER 6 FT. IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED ALONG WITH THE CONDUCTORS INSIDE THE FLEXIBLE CONDUIT. IN THIS APPLICATION THE GROUND WIRE MUST BOND THE LIGHTING FIXTURE HOUSINGS TO EACH OTHER AND/OR TO THE JUNCTION BOX. ALL FLEXIBLE CONDUIT SHALL BE SUPPORTED AS REQUIRED BY NEC AND SHALL BE INSTALLED IN A WORKMANLIKE MANNER.
- H. NOTE THAT SPECIFICATIONS FOR RECESSED FIXTURES GENERALLY DO NOT INCLUDE MOUNTING ACCESSORIES, AND THAT EACH FIXTURE TYPE MAY BE USED IN SEVERAL DIFFERENT CEILINGS, SUCH AS LAY-IN EXPOSED GRID, CONCEALED SPLINE TILE, OR DRYWALL. VERIFY MOUNTING DETAILS FOR EACH SPACE BEFORE ORDERING FIXTURES SO THAT PROPER QUANTITIES FOR EACH CONDITION WILL BE DELIVERED IN TIME TO AVOID CONSTRUCTION DELAYS.
- I. SUPPORT EXIT SIGNS IN TILE CEILINGS WITH RAILS THAT SPAN BETWEEN RUNNERS OF CEILING SUSPENSION SYSTEM. USE FLANGED FIXTURES FOR FINISHED APPEARANCE.
- J. SUPPORT FIXTURES IN DRYWALL CEILINGS FROM PLASTER FRAMES, WITH ADJUSTABLE LUGS ON SIDE OF FIXTURE OR YOKE MOUNTING AS RECOMMENDED BY FIXTURE MANUFACTURER. USE FLANGED FIXTURES FOR FINISHED APPEARANCE, UNLESS OTHERWISE NOTED.
- K. LOCATE FIXTURE IN CENTER OF PANEL WHERE USED IN MODULAR TILE CEILINGS, UNLESS OTHERWISE NOTED. REFER TO REFLECTED CEILING PLAN.

20. EMPTY RACEWAY SYSTEMS

- A. A COMPLETE EMPTY RACEWAY SYSTEM CONSISTING OF BLANK 4–11/16 IN. SQ. X 2–1/8 INCHES DEEP OUTLET BOXES WITH SINGLE OR DOUBLE GANG DRYWALL FINISH COLLAR AS NOTED. METALLIC RACEWAY WITH PULL STRING SHALL BE PROVIDED AND INSTALLED WHERE SHOWN FOR THE FOLLOWING SYSTEMS.

1) TELEPHONE/DATA (SINGLE GANG)

2) CABLE TELEVISION (SINGLE GANG)
- B. RACEWAY SIZE SHALL BE A MINIMUM OF 3/4 IN. OR AS DOCUMENTED IN PLANS AND DETAILS.
- C. ALL METALLIC RACEWAY SYSTEMS SHALL BE STUBBED UP AND TERMINATE IN ACCESSIBLE CEILING. END BUSHINGS AND PULL WIRES SHALL BE PROVIDED. BONDING OF ALL RACEWAY SYSTEMS TO PROVIDE A COMMON GROUND PATH SHALL BE PROVIDED.
- D. ACTUAL DEVICES, CONNECTORS, WIRING COMPLETE WITH TERMINATIONS AND BOX COVERS SHALL BE PROVIDED BY THE OWNER.

21. TESTS

- A. BEFORE MAKING TESTS, COMPLETE ALL CONNECTIONS AT PANELS, FIXTURES AND OTHER EQUIPMENT. INSTALL FUSES AND HAVE ALL WIRING CONTINUOUS FROM SERVICE EQUIPMENT TO UTILIZATION OUTLETS. CORRECT ALL UNDESIRABLE GROUND, OPEN AND SHORT CIRCUIT CONDITIONS.
- B. PROVIDE SOURCE OF TEMPORARY POWER FOR MAKING TESTS IF NORMAL BUILDING POWER IS NOT AVAILABLE AT THE TIME.
- C. TAKE AND RECORD THE FOLLOWING READINGS ON SYSTEMS 600 VOLTS AND BELOW:

1) MEGGER TESTS OF ALL FEEDER CIRCUIT CONDUCTORS, GROUND CONDUCTORS, AND CONDUIT GROUND.

2) AMMETER READINGS ON ALL PHASES AND NEUTRAL OF EACH FEEDER TO INDICATE BALANCE.

3) AMMETER READINGS ON ALL PHASES OF EACH POLYPHASE MOTOR. INCLUDE NAMEPLATE FULL LOAD CURRENT OF EACH MOTOR ON DATA SHEET.

4) CERTIFY THAT ALL OVERLOAD DEVICES HAVE BEEN SET IN ACCORDANCE WITH DATA SHOWN ON THE DRAWINGS AND/OR MANUFACTURER'S RECOMMENDED SETTING.
- D. SEND FINAL CERTIFIED TEST REPORTS AND CERTIFICATIONS TO THE ARCHITECT FOR APPROVAL AND TRANSMITTAL TO THE OWNER.
- E. PROVIDE FUNCTIONAL TESTING FOR OCCUPANT SENSORS AND AUTOMATIC TIME SWITCH IN ACCORDANCE WITH ARTICLE 9.9 OF THE 2019 EDITION OF ASHRAE STANDARD 90.1.

22. DEMONSTRATION OF COMPLETE ELECTRICAL SYSTEMS

- A. SUBMIT WRITTEN CERTIFICATION THAT ELECTRICAL SYSTEMS ARE COMPLETE AND OPERATIONAL. SUBMIT CERTIFICATION WITH CONTRACTOR'S REQUEST FOR FINAL REVIEW.

1) AT THE TIME OF FINAL REVIEW OF ELECTRICAL WORK, DEMONSTRATE THE

OPERATION OF ELECTRICAL SYSTEMS. FURNISH LABOR, APPARATUS AND EQUIPMENT FOR SYSTEMS' DEMONSTRATION. THE VARIOUS TEST SHALL BE WITNESSED BY AND THE OWNER OR HIS REPRESENTATIVE.

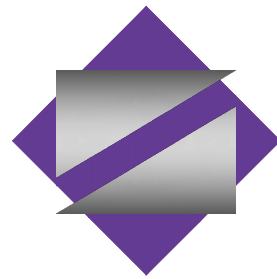
- B. THE CONTRACTOR SHALL FURNISH ALL TEST EQUIPMENT, MATERIALS, LABOR, AND TEMPORARY POWER HOOK-UPS TO PERFORM START-UP AND ALL TESTS AS REQUIRED TO OBTAIN FINAL FIELD ACCEPTANCE FROM OWNER. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE. ALL TEST PROCEDURES SHALL CONFORM TO THIS SPECIFICATION AND APPLICABLE STANDARDS THE ANSI, IEEE, NEMA, OSHA, NEPA, ETC.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTS AND TEST RECORD. TESTING SHALL BE PERFORMED BY AND UNDER THE IMMEDIATE SUPERVISION OF THE CONTRACTOR. TEST RECORD SHALL BE KEPT FOR EACH PIECE OF EQUIPMENT. COPIES SHALL BE FURNISHED TO THE ENGINEER FOR REVIEW AND/OR APPROVAL.
- D. A VISUAL INSPECTION OF ALL ELECTRICAL EQUIPMENT, TO CHECK FOR THE FOREIGN MATERIAL, TIGHTNESS OR WIRING AND CONNECTION, PROPER GROUNDING, MATCHING NAMEPLATE CHARTS WITH SPECIFICATION, ETC., SHALL BE MADE PRIOR TO ACTUAL TESTING.

23. SPECIAL ENGINEERING SERVICES

- A. ANY AND ALL EXPENSES INCURRED BY THESE EQUIPMENT MANUFACTURERS' REPRESENTATIVES RELATED TO THIS PROJECT, SHALL BE BORNE BY THE ELECTRICAL CONTRACTOR.

24. DESIGN MODIFICATIONS

- A. THE DRAWINGS SHOW ELECTRICAL SYSTEMS, WHICH SUPPLY, CONTROL, AND/OR MONITOR SYSTEMS SPECIFIED ELSEWHERE. THE ELECTRICAL SYSTEM SHOWN HAS BEEN BASED ON SPECIFIC MANUFACTURERS DATA OR INFORMATION CONVEYED TO THE ELECTRICAL DESIGNER. WHERE ANY AGREEMENT OR CHANGE IS MADE TO SUPPLY EQUIPMENT OF LARGER CAPACITY OR DIFFERENT ELECTRICAL CHARACTERISTICS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE ELECTRICAL SYSTEM TO EFFECT SUCH CHANGES WITHIN THE INTENT OF THESE SPECIFICATIONS AND TO INFORM THE ENGINEER, IN WRITING, OF SUCH CHANGE. FOR EXAMPLE, IF HVAC COMPRESSORS AND/OR MOTORS ARE ALLOWED TO BE CHANGED TO 230 VOLTS RATHER THAN THE ORIGINALLY SPECIFIED 208 VOLTS, BOOSTING OR BUCKING TRANSFORMERS SHALL BE SUPPLIED, INSTALLED, AND WIRED TO ACCOMMODATE THE CHANGE AT NO ADDITIONAL COST.



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SHEET CONTENTS:

ELECTRICAL
SPECIFICATIONS

PROJECT TITLE:

ATLANTIC CITY
CONVENTION CENTER
TRADE SHOP DEVELOPMENT

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

SUBMISSION:

06.17.2026	ISSUED FOR BID

DATE	REVISIONS	REV

Date	05.01.26
Scale	AS NOTED
Drawn by	MM
Checked by	KC
Job No.	25150

Drawing No.

E-402

PROJECT MANUAL

ATLANTIC CITY CONVENTION CENTER TRADE SHOP DEVELOPMENT

1 CONVENTION BLVD, ATLANTIC CITY, NJ 08401

for

OAK VIEW GROUP

5050 S SYRACUSE
STREET, SUITE 800,
GREENWOOD VILLAGE,
COLORADO 80237

VOLUME NO. 1



NETTAARCHITECTS

1084 Route 22 West
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CONSULTANTS

MEP Engineering Consultants
BOWMAN ENGINEERING
457 OAKSHADE RD SHAMONG, NJ 08088

NA #225064

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

DIVISION 01 – GENERAL REQUIREMENTS

011000	Summary
012500	Substitution Procedures
012600	Contract Modification Procedures
012900	Payment Procedures
013100	Project Management and Coordination
013200	Construction Progress Documentation
013233	Photographic Documentation
013300	Submittal Procedures
013516	Alteration Project Procedures
014000	Quality Requirements
014200	References
015000	Temporary Facilities and Controls
016000	Product Requirements
017300	Execution
017419	Construction Waste Management & Disposal
017700	Closeout Procedures
017823	Operation and Maintenance Data
017839	Project Record Documents

DIVISION 02 – EXISTING CONDITIONS

024119	Selective Demolition
--------	----------------------

DIVISION 03 – CONCRETE

(NOT USED)

DIVISION 04 – MASONRY

(NOT USED)

DIVISION 05 – METALS

(NOT USED)

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

064023	Interior Architectural Woodwork
064116	Plastic Laminate Faced Architectural Cabinets

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

079200	Sealants
--------	----------

DIVISION 08 – OPENINGS

088300	Mirrors
--------	---------

DIVISION 09 – FINISHES

093013 Tiling

DIVISION 10 – SPECIALTIES

105113 Metal Lockers
105613 Metal Shelving

DIVISION 11 – EQUIPMENT

(NOT USED)

DIVISION 12 – FURNISHINGS

(NOT USED)

DIVISION 14 – CONVEYING EQUIPMENT

(NOT USED)

DIVISION 21 – FIRE SUPPRESSION

(Refer to the Fire Suppression Drawings for Specifications)

DIVISION 22 – PLUMBING

(Refer to the Plumbing Drawings for Specifications)

DIVISION 23 – HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

(Refer to the HVAC Drawings for Specifications)

DIVISION 26 – ELECTRICAL

(Refer to the Electrical Drawings for Specifications)

END OF TABLE OF CONTENTS

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Work restrictions.
 - 4. Specification and Drawing conventions.
- B. Related Requirements:
 - 1. Division 01 Section "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 DEFINITIONS

- A. Work Package: A group of specifications, drawings, and schedules prepared by the design team to describe a portion of the Project Work for pricing, permitting, and construction.

1.4 PROJECT INFORMATION

- A. Project Identification: Renovation Project, Atlantic City Convention Center Trade Shop Development Project.
- B. Project Location: 1 Convention Boulevard, Atlantic City, New Jersey
- C. Owner: Oak View Group, 5050 S. Syracuse, Suite 800, Greenwood Village, Colorado.
- D. Architect: Netta Architects LLC.
 - 1. Architect's Representative: Larry Uher, AIA.

- E. Architect's Consultants: Architect has retained the following design professionals, who have prepared designated portions of the Contract Documents:

1. Mechanical Plumbing Electrical Fire Protection Engineer: Bowman Engineering, 457 Oakshade Road, New Jersey.

1.5 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and includes, but is not limited to, the following:

1. Demolition and remove, or temporarily remove, store, and reinstall existing toilet accessories within the Trade Shop Area, as noted on the contract drawings.

- B. Type of Contract:

1. Project will be constructed under a single prime contract.

1.6 PROJECT START AND FINAL COMPLETION DATES

- A. OAKVIEW VENUE GROUP anticipates that the project start date will be **October 5, 2026**, and requires that the project be completed to the satisfaction of the Owner by **December 23, 2026**.

1.7 COORDINATION WITH OCCUPANTS

- A. Full Owner Occupancy: Owner will occupy Project site and existing space adjacent to the work area during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.

1.8 WORK RESTRICTIONS

- A. Comply with restrictions on construction operations.
1. Comply with limitations on use of public streets, work on public streets, rights of way, and other requirements of authorities having jurisdiction.
- B. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor-air intakes.
- C. Employee Identification: Provide identification tags for Contractor personnel working on Project site. Require personnel to use identification tags at all times.

1.9 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Text Color: Text used in the Specifications, including units of measure, manufacturer and product names, and other text may appear in multiple colors or underlined as part of a hyperlink; no emphasis is implied by text with these characteristics.
 - 3. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 00 Contracting Requirements: General provisions of the Contract, including General and Supplementary Conditions, apply to all Sections of the Specifications.
- C. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- D. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 - 2. Abbreviations: Materials and products are identified by abbreviations scheduled on Drawings.
 - 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 012500 - "OR EQUAL" SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the acceptance of "Or Equal" substitutions.

1.3 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
 - 1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms. (Refer to the attached Substitutions Request Form).

1.4 DEFINITIONS

Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.

Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.

- 1. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

1.5 ACTION SUBMITTALS

Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.

Documentation: Show compliance with requirements for substitutions and the following, as applicable:

1. Retain and revise requirements in first 13 subparagraphs below that are applicable and necessary and are not included in the Supplementary Conditions.

Statement indicating why specified product or fabrication or installation method cannot be provided, if applicable.

- a. Coordination of information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
 - b. Detailed comparison of significant qualities of proposed substitutions with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes, such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
 - c. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
 - d. Samples, where applicable or requested.
 - e. Certificates and qualification data, where applicable or requested.
 - f. List of similar installations for completed projects, with project names and addresses as well as names and addresses of architects and owners.
 - g. Material test reports from a qualified testing agency, indicating and interpreting test results for compliance with requirements indicated.
 - h. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
 - i. Detailed comparison of Contractor's construction schedule using proposed substitutions with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
 - j. Cost information, including a proposal of change, if any, in the Contract Sum.
 - k. Contractor's certification that proposed substitution complies with requirements in the Contract Documents, except as indicated in substitution request, is compatible with related materials and is appropriate for applications indicated.
 - l. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
2. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.

3. During construction the Architect or his Consultant will only evaluate and render a decision on one "Or Equal" Product Substitution. If additional "Or Equal" product substitutions are submitted during construction, then the Contractor shall reimburse the Architect or his Consultant directly at an hourly rate of \$230.00 dollars an hour, for their evaluation and decision on each submission.

1.6 QUALITY ASSURANCE

- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. If a product or material requires testing to evidence that it is an equivalent, engage a qualified testing agency to perform compatibility tests recommended by Architect.

1.7 PROCEDURES

- A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.
 1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - b. The contractor is responsible for all system accessories and required components necessary for the installation of requested "or equals" or substitutions.
 - c. Requested substitution provides sustainable design characteristics that specified product provided for achieving sustainable design prerequisites and credits.
 - d. Substitution request is fully documented and properly submitted.
 - e. Requested substitution will not adversely affect Contractor's construction schedule.
 - f. Requested substitution has received necessary approvals of authorities having jurisdiction.
 - g. Requested substitution is compatible with other portions of the Work.

- h. Requested substitution has been coordinated with other portions of the Work.
 - i. Requested substitution provides specified warranty.
 - j. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
 - 2. Additional Responsibilities: Contractor shall be responsible to compensate the Owner for Architect redesign and evaluation services, increased cost of other construction by Owner, and similar considerations due to Contractor's requests for substitution.
- B. "Or Equal" Substitutions: Architect will consider requests for substitution if received within 21 days after the Notice of Contract Award. Requests received after the 21 days will be rejected by the Architect.
 - 1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - b. Requested substitution provides sustainable design characteristics that specified product provided for achieving sustainable design prerequisites and credits.
 - c. Substitution request is fully documented and properly submitted. Requested substitution will not adversely affect Contractor's construction schedule.
 - d. Requested substitution has received necessary approvals of authorities having jurisdiction.
 - e. Requested substitution is compatible with other portions of the Work.
 - f. Requested substitution has been coordinated with other portions of the Work.
 - g. Requested substitution provides specified warranty.
 - h. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

PART 3 - COMPENSATION (Not used)

PART 4 - EXECUTION (Not Used)

END OF SECTION 012500

CSI Form 13.1A

SUBSTITUTION REQUEST FOR CAUSE

Project: _____ Substitution Request Number: _____

To: _____ From: _____

Re: _____ Date: _____
_____ A/E Project Number: _____
_____ Contract For: _____

Specification Title: _____ Description: _____
Section: _____ Page: _____ Article/Paragraph: _____

Proposed Substitution: _____
Manufacturer: _____ Address: _____ Phone: _____
Trade Name: _____ Model No.: _____
Installer: _____ Address: _____ Phone: _____
History: ☐ New product ☐ 1-4 years old ☐ 5-10 years old ☐ More than 10 years old

Differences between proposed substitution and specified product: _____

☐ Point-by-point comparative data attached — REQUIRED BY A/E

Reason for not providing specified item: _____

Similar Installation:

Project: _____ Architect: _____
Address: _____ Owner: _____
_____ Date Installed: _____

Proposed substitution affects other parts of Work: ☐ No ☐ Yes; explain _____

Savings to Owner for accepting substitution: _____ (\$ _____).

Proposed substitution changes Contract Time: ☐ No ☐ Yes [Add] [Deduct] _____ days.

Supporting Data Attached: ☐ Drawings ☐ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

SUBSTITUTION REQUEST FOR CAUSE

(Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by: _____

Signed by: _____

Firm: _____

Address: _____

Telephone: _____

Attachments: ☐

A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- ☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- ☐ Substitution rejected - Use specified materials.
- ☐ Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

Additional Comments: ☐ Contractor ☐ Subcontractor ☐ Supplier ☐ Manufacturer ☐ A/E
☐ Other:

SECTION 012600 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.

1.3 MINOR CHANGES IN THE WORK

- A. Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions."

1.4 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Work Changes Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document G701.

1.5 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Architect may issue a Construction Change Directive on AIA Document G714. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 - 1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
 - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

1.6 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
1. Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
 2. Within time specified in Proposal Request or 20 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include costs of labor and supervision directly attributable to the change.
 - d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
- B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect.
1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
 2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 4. Include costs of labor and supervision directly attributable to the change.
 5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
 6. Comply with requirements in Division 01 Section "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.
- C. Contractor Fee: The maximum Contractor's fee and other charges related to approved change orders is as follows:

1. Work performed by the Contractors subcontractors: 10% of the cost of the work for the Subcontractor and 5% of that cost (subcontractor plus 10%) for the Contractor.
2. Work performed by the Contractor: 15% of the cost of the work for the Contractor.
3. Insurance cost shall be at the percentage included in the approved schedule of values.
4. Bond Cost shall be at the percentage included in the approved schedule of values.
5. When changed work is funded through base bid Contract Allowances, there shall be no payment for insurance and bond cost as they are included in the base bid amount.

1.7 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Work Changes Proposal Request, Owner's Representative will issue a Change Order for signatures of Owner and Contractor on AIA Document G701/2017.

1.8 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Owner's Representative may issue a Construction Change Directive on AIA Document G714/2017. Construction Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012600

SECTION 012900 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. Related Requirements:
 - 1. Division 01 Section "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.

1.3 DEFINITIONS

- A. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

1.4 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule.
 - 1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:
 - a. Application for Payment forms with continuation sheets.
 - b. Submittal schedule.
 - c. Items required to be indicated as separate activities in Contractor's construction schedule.
 - 2. Submit the schedule of values to Architect at earliest possible date, but no later than seven days before the date scheduled for submittal of initial Applications for Payment.
- B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section and relevant Attachments.
 - 1. Identification: Include the following Project identification on the schedule of values:

- a. Project name and location.
 - b. Name of Architect.
 - c. Contractor's name and address.
 - d. Date of submittal.
2. Arrange schedule of values consistent with format of AIA Document G703.
3. Arrange the schedule of values in tabular form with separate columns to indicate the following for each item listed:
 - a. Description of the Work.
 - b. Dollar value of the following, as a percentage of the Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent.
 - 1) Labor.
 - 2) Materials.
 - 3) Equipment.
4. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
5. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.
6. Schedule Updating: Update and resubmit the schedule before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.5 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment following the initial Application for Payment shall be consistent with previous applications and payments as certified by Architect and paid for by Owner.
 1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
 2. Payment will be made based on the percentage completed of the phase contract amount plus allowable reimbursable expenses per the schedule submitted.
- B. Payment Application Times: The date for each progress payment is indicated in the Agreement between Owner and Contractor. The period of construction work covered by each Application for Payment is the period indicated in the Agreement.
 1. A Owners Claim Voucher and itemized invoice shall be submitted monthly to the Architect and the Owners Representative for review, the actual dates of these submissions shall be coordinated with the Owner Representative.
- C. Application for Payment Forms: Use AIA Document G702 and AIA Document G703 as form for Applications for Payment.
 1. In addition to the AIA G702 and AIA G703 documents, submit the Owners Claim Voucher.

- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.
1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
 2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
 3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
 4. Indicate separate amounts for work being carried out under Owner-requested project acceleration.
- E. Stored Materials: At the sole option of the Owner, payments may be made for materials stored off site. If this billing is permitted, include in Application for Payment amounts applied for materials or equipment purchased or fabricated and stored on-site, but not yet installed.
1. Provide certificate of insurance, evidence of transfer of title to Owner, and consent of surety to payment, for stored materials.
 2. Provide supporting documentation that verifies amount requested, such as paid invoices. Match amount requested with amounts indicated on documentation; do not include overhead and profit on stored materials.
 3. Provide summary documentation for stored materials indicating the following:
 - a. Value of materials previously stored and remaining stored as of date of previous Applications for Payment.
 - b. Value of previously stored materials put in place after date of previous Application for Payment and on or before date of current Application for Payment.
 - c. Value of materials stored since date of previous Application for Payment and remaining stored as of date of current Application for Payment.
- F. Transmittal: Submit three signed and notarized original copies of each Application for Payment to Architect by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.
1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.
- G. Waivers of Mechanic's Lien: With each Application for Payment, submit waivers of mechanic's lien from entities lawfully entitled to file a mechanic's lien arising out of the Contract and related to the Work covered by the payment.
1. Submit partial waivers on each item for amount requested in previous application, after deduction for retainage, on each item.
 2. When an application shows completion of an item, submit conditional final or full waivers.
 3. Owner reserves the right to designate which entities involved in the Work must submit waivers.
 4. Waiver Forms: Submit executed waivers of lien on forms acceptable to Owner.
- H. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:

1. List of subcontractors.
 2. Schedule of values.
- I. Application for Payment at Substantial Completion: After Architect issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
 2. This application shall reflect Certificate(s) of Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
- J. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
1. Evidence of completion of Project closeout requirements.
 2. AIA Document G706A, "Contractor's Affidavit of Release of Liens."

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 012900

SECTION 013100 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. General project coordination procedures.
 - 2. Administrative and supervisory personnel.
 - 3. Coordination drawings.
 - 4. Web-Based Project Management Software Package.
 - 5. Requests for Information (RFIs).
 - 6. Project meetings.
- B. Each contractor shall participate in coordination requirements. Certain areas of responsibility are assigned to a specific contractor.
- C. Related Sections:
 - 1. Division 01 Section "Construction Progress Documentation" for preparing and submitting Contractor's construction schedule.
 - 2. Division 01 Section "Closeout Procedures" for coordinating closeout of the Contract.

1.3 DEFINITIONS

- A. RFI: Request from Owner's Representative, Architect, or Contractor seeking information from each other during construction.

1.4 COORDINATION

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection, and operation.

1. 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.
 2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
 3. Make adequate provisions to accommodate items scheduled for later installation.
- B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
1. Prepare similar memoranda for Owner's Representative and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
1. Preparation of Contractor's construction schedule.
 2. Preparation of the schedule of values.
 3. Installation and removal of temporary facilities and controls.
 4. Progress meetings.
 5. Project closeout activities.
- D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.
1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. Refer to other Sections for disposition of salvaged materials that are designated as Owner's Representative property.

1.5 COORDINATION DRAWINGS

- A. Coordination Drawings, General: Prepare coordination drawings in accordance with requirements in individual Sections, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
 - a. Use applicable Drawings as a basis for preparation of demolition coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.

- b. Provide a plan that shows the project site logistics including staging and work areas, traffic routes, crane access, contract limits, entry/exit points, contractor parking, temporary fencing, signage, phasing, etc.
 - c. Coordinate the addition of trade-specific information to the demolition coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.
- B. Coordination Digital Data Files: Prepare coordination digital data files in accordance with the following requirements:
 - 1. File Preparation Format: Same digital data software program, version, and operating system as the original Drawings.
 - 2. File Submittal Format: Submit or post coordination drawing files using format same as file preparation format and Portable Data File (PDF) format.
- C. Web-Based Project Management Software Package: Provide, administer, and use web-based Project management software package for purposes of hosting and managing Project communication and documentation until Final Completion.
 - 1. Web-based Project management software includes, at a minimum, the following features:
 - a. Compilation of Project data, including Contractor, subcontractors, Architect, Architect's consultants, Owner, and other entities involved in Project. Include names of individuals and contact information.
 - b. Access control for each entity for each workflow process, to determine entity's digital rights to create, modify, view, and print documents.
 - c. Document workflow planning, allowing customization of workflow between project entities.
 - d. Creation, logging, tracking, and notification for Project communications required in other Specification Sections, including, but not limited to, RFIs, submittals, Minor Changes in the Work, Construction Change Directives, and Change Orders.
 - e. Track status of each Project communication in real time, and log time and date when responses are provided.
 - f. Procedures for handling PDFs or similar file formats, allowing markups by each entity. Provide security features to lock markups against changes once submitted.
 - g. Processing and tracking of payment applications.
 - h. Processing and tracking of contract modifications.
 - i. Creating and distributing meeting minutes.
 - j. Document management for Drawings, Specifications, and coordination drawings, including revision control.
 - k. Management of construction progress photographs.
 - l. Mobile device compatibility, including smartphones and tablets.
 - 2. Provide project management software user licenses for use of Owner, Architect, and Architect's consultants, Owner's Commissioning Authority and Construction Manager (if applicable). Provide up to four hours of software training at Architect's office for web-based Project software users

3. At completion of Project, provide digital archive in format that is readable by common desktop software applications in format acceptable to Architect. Provide data in locked format to prevent further changes.

D. Manufacturers:

- a. Basis of Design: Procore Technologies, Inc., or provide products by one of the following:
 - a. Autodesk, Inc.
 - b. Deltek Inc.
 - c. Newforma, Inc.

E. PDF Document Preparation: Where PDFs are required to be submitted to Architect, prepare as follows:

1. Assemble complete submittal package into a single indexed file, incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
2. Name file with submittal number or other unique identifier, including revision identifier.
3. Certifications: Where digitally submitted certificates and certifications are required, provide a digital signature with digital certificate on where indicated.

1.6 KEY PERSONNEL

- A. Key Personnel Names: Within twenty (20) days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home, office, and cellular telephone numbers and email addresses. Provide names, addresses, and telephone numbers of individuals assigned as standbys in the absence of individuals assigned to Project.

1. Post copies of list in project meeting room, in temporary field office, and by each temporary telephone. Keep list current at all times.

1.7 REQUESTS FOR INFORMATION (RFIs)

- A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.

1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.

- B. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log Bi-weekly, on a Construction Procurement Software. Refer to section, 1.5.D of this specification section.
- C. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
 - 1. Project name.
 - 2. Project number.
 - 3. Date.
 - 4. Name of Contractor.
 - 5. Name of Architect.
 - 6. RFI number, numbered sequentially.
 - 7. RFI subject.
 - 8. Specification Section number and title and related paragraphs, as appropriate.
 - 9. Drawing number and detail references, as appropriate.
 - 10. Field dimensions and conditions, as appropriate.
 - 11. Contractor's suggested resolution. If Contractor's solution(s) impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 - 12. Contractor's signature.
 - 13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
 - a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.
- D. Architect's Action: Architect will review each RFI, and provide a written response. Allow seven (7) working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
 - 1. The following RFIs will be returned without action:
 - a. Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - c. Requests for coordination information already indicated in the Contract Documents.
 - d. Requests for adjustments in the Contract Time or the Contract Sum.
 - e. Requests for interpretation of Architect's actions on submittals.
 - f. Incomplete RFIs or inaccurately prepared RFIs.
 - 2. RFI responses may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
- E. Contractor may review and respond in writing to the Owner's, Architect's or Construction Manager's RFI response within 7 days of receipt of the original RFI response. No response will constitute acceptance of the RFI response.

- F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within seven (7) business days if Contractor disagrees with response.
- G. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. Use software log to keep track of RFI's is required. Include the following: Software log with not less than the following:
 - 1. Project name.
 - 2. Name and address of Contractor.
 - 3. Name and address of Architect.
 - 4. RFI number including RFIs that were dropped and not submitted.
 - 5. RFI description.
 - 6. Date the RFI was submitted.
 - 7. Date Architect's response was received.
 - 8. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.
 - 9. Identification of related Field Order, Work Change Directive, and Proposal Request, as appropriate.

1.8 PROJECT MEETINGS

- A. General: Contractor will schedule and conduct meetings and conferences at Project site, unless otherwise indicated.
 - 1. Attendees: The Contractor to inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
 - 2. Agenda: The Contractor to prepare the meeting agenda. Distribute the agenda to all invited attendees.
 - 3. Minutes: The Contractor is responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner, and Architect, within four (4) days of the meeting.
- B. Preconstruction Conference: The Architect will schedule and conduct, a preconstruction conference before starting construction, at a time convenient to Owner and Contractor, but no later than fifteen (15) days after execution of the Agreement.
 - 1. Minutes: The Architect will record and distribute meeting minutes.
- C. Project Closeout Conference: Contractor will schedule and conduct a Project closeout conference, at a time convenient to Owner's Representative and Architect, but no later than ninety (90) days prior to the scheduled date of Substantial Completion.
 - 1. The Contractor Conduct the conference to review requirements and responsibilities related to closeout.

2. Attendees: The Contractor shall coordinate notifying authorized representatives of Owner, Architect, and their consultants; contractors superintendent; major subcontractors; suppliers; and other concerned parties shall attend the meeting. Participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
 3. Agenda: Contractor shall discuss items of significance that could affect or delay Project closeout, including the following:
 - a. Preparation of record documents.
 - b. Procedures required prior to inspection for Substantial Completion and for final inspection for acceptance.
 - c. Requirements for demonstration and training.
 - d. Preparation of Contractor's punch list.
 - e. Procedures for processing Applications for Payment at Substantial Completion and for final payment.
 - f. Submittal procedures.
 - g. Responsibility for removing temporary facilities and controls.
 4. Minutes: the Contractor shall conduct this meeting and record and distribute meeting minutes.
- D. Progress Meetings: Contractor will conduct progress meetings at bi-monthly interval, or as required by the Owner.
1. The Contractor shall provide a written two week look ahead construction schedule for the work that is to be performed during this time period. This schedule shall be issued a least one day before the scheduled progress meeting for everyone's review prior to this meeting.
 2. The Contractor shall coordinate dates of meetings with preparation of payment requests.
 3. Agenda: The Contractor shall review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 4. Minutes: The Contractor shall be responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.
 - a. Schedule Updating: The Contractor shall revise Contractor's construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

June 17, 2026
Bid Issue

Trade Shop Development Project
Atlantic City Convention Center
1 Convention Boulevard
Atlantic City, New Jersey

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013100

SECTION 013200 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
 - 1. Start-up construction schedule.
 - 2. Contractor's construction schedule.
 - 3. Daily construction reports.
 - 4. Material location reports.
 - 5. Field condition reports.
 - 6. Special reports.

1.3 DEFINITIONS

- A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.
 - 1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
 - 2. Predecessor Activity: An activity that precedes another activity in the network.
 - 3. Successor Activity: An activity that follows another activity in the network.

1.4 INFORMATIONAL SUBMITTALS

- A. Format for Submittals: The Contractor to Submit required submittals in the following format:
 - 1. PDF electronic file.
- B. Start-up construction schedule.
- C. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.
 - 1. Submit a working electronic copy of schedule, using software indicated, and labeled to comply with requirements for submittals. Include type of schedule (initial or updated) and date on label.

- D. Daily Construction Reports: Submit at weekly intervals.
- E. Field Condition Reports: Submit at time of discovery of differing conditions.
- F. Special Reports: Submit at time of unusual event.

1.5 COORDINATION

- A. Coordinate preparation and processing of schedules and reports with performance of construction activities and with scheduling and reporting of separate contractors.

PART 2 - PRODUCTS

2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

- A. Time Frame: Extend schedule from date established for the Notice to Proceed to date of Substantial Completion and final completion.
 - 1. Contract completion date shall not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by Change Order.
- B. Activities: Treat each story or separate area as a separate numbered activity for each principal element of the Work. Comply with the following:
 - 1. Submittal Review Time: Include review and resubmittal times indicated in Division 01 Section "Submittal Procedures" in schedule. Coordinate submittal review times in Contractor's construction schedule with submittal schedule.
 - 2. Substantial Completion: Indicate completion in advance of date established for Substantial Completion, and allow time for Architect's administrative procedures necessary for certification of Substantial Completion.
 - 3. Punch List and Final Completion: Include not more than 30 days for punch list and final completion.
- C. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed and Substantial, with Punchlist and Final Completion.
- D. Recovery Schedule: When periodic update indicates the Work is fourteen (14) or more calendar days behind the current approved schedule, submit a separate recovery schedule indicating means by which Contractor intends to regain compliance with the schedule. Indicate changes to working hours, working days, crew sizes, and equipment required to achieve compliance, and date by which recovery will be accomplished.

2.2 START-UP CONSTRUCTION SCHEDULE

- A. Bar-Chart Schedule: Submit start-up horizontal bar-chart-type construction schedule within 14 days of date established for the Notice to Proceed.
- B. Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line. Outline significant construction activities for first 90

days of construction. Include skeleton diagram for the remainder of the Work and a cash requirement prediction based on indicated activities.

2.3 CONTRACTOR'S CONSTRUCTION SCHEDULE (GANTT CHART)

- A. Gantt-Chart Schedule: Submit a comprehensive, fully developed, horizontal Gantt-chart-type, Contractor's construction schedule within 30 days of date established for issuance of permits. Base schedule on the start-up construction schedule and additional information received since the start of Project.
- B. Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line.
 - 1. For construction activities that require three months or longer to complete, indicate an estimated completion percentage in ten (10) percent increments within time bar.

2.4 REPORTS

- A. Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project site:
 - 1. List of subcontractors at Project site.
 - 2. List of separate contractors at Project site.
 - 3. Approximate count of personnel at Project site.
 - 4. Equipment at Project site.
 - 5. Material deliveries.
 - 6. High and low temperatures and general weather conditions, including presence of rain or snow.
 - 7. Accidents.
 - 8. Meetings and significant decisions.
 - 9. Unusual events (refer to special reports).
 - 10. Stoppages, delays, shortages, and losses.
 - 11. Meter readings and similar recordings.
 - 12. Emergency procedures.
 - 13. Orders and requests of authorities having jurisdiction.
 - 14. Change Orders received and implemented.
 - 15. Construction Change Directives received and implemented.
 - 16. Services connected and disconnected.
 - 17. Substantial Completions authorized.
- B. Field Condition Reports: Immediately on discovery of a difference between field conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

PART 3 - EXECUTION

3.1 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Contractor's Construction Schedule Updating: At monthly intervals, update schedule to reflect actual construction progress and activities. Issue schedule one week before each regularly scheduled progress meeting.
 - 1. Revise schedule immediately after each meeting or other activity where revisions have been recognized or made. Issue updated schedule concurrently with the report of each such meeting.
 - 2. Include a report with updated schedule that indicates every change, including, but not limited to, changes in logic, durations, actual starts and finishes, and activity durations.
 - 3. As the Work progresses, indicate final completion percentage for each activity.
- B. Distribution: Distribute copies of approved schedule to Architect, Owner's Representative, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.
 - 1. Post copies in Project meeting rooms and temporary field offices.
 - 2. When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

END OF SECTION 013200

SECTION 013233 - PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Preconstruction photographs.
 - 2. Monthly photographs.
 - 3. Final completion photographs.
- B. Related Sections:
 - 1. Division 01 Section "Closeout Procedures" for submitting photographic documentation as project record documents at Project closeout.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For photographer and Web-based photographic documentation service provider.
- B. Key Plan: Submit key plan of Project site and building with notation of vantage points marked for location and direction of each photograph. Indicate elevation or story of construction. Include same information as corresponding photographic documentation.
- C. Digital Photographs: Submit image files within three (3) days of taking photographs.
 - 1. Digital Camera: Minimum sensor resolution of eight (8) megapixels.
 - 2. Format: Minimum 1600 by 1200 pixels, 400 dpi minimum, in unaltered original files, with same aspect ratio as the sensor, uncropped, date- and time- stamped, in folder named by date of photograph, accompanied by key plan file.
 - 3. Identification: Provide the following information with each image description in file metadata tag:
 - a. Name of Project.
 - b. Name and contact information for photographer.
 - c. Name of Architect.
 - d. Name of Contractor.
 - e. Date photograph was taken.
 - f. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.
 - g. Unique sequential identifier keyed to accompanying key plan.

- D. Demolition Construction Photographs: Submit two (2) prints of each photographic view within seven (7) days of taking photographs.
1. Format: 8-by-10-inch smooth-surface matte prints on single-weight commercial-grade photographic paper, [mounted on linen or card stock to allow a 1-inch- wide margin and enclosed back to back in clear plastic sleeves that are punched for standard three-ring binder.
 2. Identification: On back of each print, provide an applied label or rubber-stamped impression with the following information:
 - a. Name of Project.
 - b. Name and contact information for photographer.
 - c. Name of Architect
 - d. Name of Contractor.
 - e. Date photograph was taken if not date stamped by camera.
 - f. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.
 - g. Unique sequential identifier keyed to accompanying key plan.

1.4 COORDINATION

- A. Auxiliary Services: Cooperate with photographer and provide auxiliary services requested, including access to Project site and use of temporary facilities, including temporary lighting required to produce clear, well-lit photographs.

1.5 USAGE RIGHTS

- A. Obtain and transfer copyright usage rights from photographer to Owner for unlimited reproduction of photographic documentation.

PART 2 - PRODUCTS (NOT REQUIRED)

PART 3 - EXECUTION

3.1 DEMOLITION PHOTOGRAPHS

- A. Pre-demolition Photographs: Before starting construction, take photographs of Project site and surrounding properties, including existing items to remain during construction, from different vantage points, as directed by the Architect.
1. Take twenty-five [25] photographs to show existing conditions adjacent to property before starting the Work.
 2. Take twenty-five [25] photographs of existing buildings either on or adjoining property to accurately record physical conditions at start of construction.
- B. Periodic Photographs: Take twenty-five [25] photographs monthly, with the cutoff date associated with each Application for Payment. Select vantage points to show status of work and progress since last photographs were taken.

June 17, 2026
Bid Issue

Trade Shop Development Project
Atlantic City Convention Center
1 Convention Boulevard
Atlantic City, New Jersey

- C. Final Completion Photographs: Take fifty [50] color photographs after date of Substantial Completion for submission as project record documents. Architect will inform photographer of desired vantage points.

END OF SECTION 013233

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:

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

- B. Related Requirements:

- 1. Division 01 Section "Project Management and Coordination" for submitting coordination drawings and subcontract list and for requirements for web-based Project software.
 - 2. Division 01 Section "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.
 - 3. Division 01 Section "Closeout Procedures" for submitting closeout submittals and maintenance material submittals.
 - 4. Division 01 Section "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.3 DEFINITIONS

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

1.4 SUBMITTAL SCHEDULE

- A. Submittal Schedule: Submit, as an action submittal, a list of submittals, arranged in chronological order by dates required by construction schedule. Include time required

for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
2. Initial Submittal Schedule: Submit concurrently with startup construction schedule. Include submittals required during the first 45 days of construction. List those submittals required to maintain orderly progress of the Work and those required early because of long lead time for manufacture or fabrication.
3. Final Submittal Schedule: Submit concurrently with the first complete submittal of Contractor's construction schedule.
 - a. Submit revised submittal schedule as required to reflect changes in current status and timing for submittals.
4. Format: Arrange the following information in a tabular format:
 - a. Scheduled date for first submittal.
 - b. Specification Section number and title.
 - c. Submittal Category: Action; informational.
 - d. Name of subcontractor.
 - e. Description of the Work covered.
 - f. Scheduled date for Architect's final release or approval.
 - g. Scheduled dates for purchasing.
 - h. Scheduled date of fabrication.
 - i. Scheduled dates for installation.
 - j. Activity or event number.

1.5 SUBMITTAL FORMATS

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

1. Project name.
2. Date.
3. Name of Architect.
4. Name of Contractor.
5. Name of firm or entity that prepared submittal.
6. Names of subcontractor, manufacturer, and supplier.
7. Category and type of submittal.
8. Number and title of Specification Section, with paragraph number and generic name for each of multiple items.
9. Drawing number and detail references, as appropriate.

B. Options: Identify options requiring selection by Architect.

C. Deviations and Additional Information: On each submittal, clearly indicate deviations from requirements in the Contract Documents, including minor variations and limitations; include relevant additional information and revisions, other than those

requested by Architect on previous submittals. Indicate by highlighting on each submittal or noting on attached separate sheet.

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

1.6 SUBMITTAL PROCEDURES

- A. Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.

- 1. Email: Prepare submittals as PDF package and transmit to Architect by sending via email. Include PDF transmittal form. Include information in email subject line as requested by Architect.
 - a. Architect will return annotated file. Annotate and retain one copy of file as a digital Project Record Document file.
- 2. Submitting Via Web-Based Project Software: Prepare submittals as PDF package and post them onto the web-based project software, for review. Include PDF transmittal form with each submission.

- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

- 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
- 2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
- 3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
- 4. Coordinate transmittal of submittals for related parts of the Work specified in different Sections, so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

- 1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
- 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
- 3. Resubmittal Review: Allow 10 days for review of each resubmittal.

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

1.7 SUBMITTAL REQUIREMENTS

- A. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
 - 1. If information must be specially prepared for submittal because standard published data are unsuitable for use, submit as Shop Drawings, not as Product Data.
 - 2. Mark each copy of each submittal to show which products and options are applicable.
 - 3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - 4. Submit Product Data before Shop Drawings, and before or concurrently with Samples.
- B. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
 - 1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Notation of coordination requirements.
 - c. Relationship and attachment to adjoining construction clearly indicated.
 - d. Seal and signature of professional engineer if specified.

- C. Samples: Submit Samples for review of type, color, pattern, and texture for a check of these characteristics with other materials.
1. Transmit Samples that contain multiple, related components, such as accessories together in one submittal package.
 2. Identification: Permanently attach label on unexposed side of Samples that includes the following:
 - a. Project name and submittal number.
 - b. Generic description of Sample.
 - c. Product name and name of manufacturer.
 - d. Sample source.
 - e. Number and title of applicable Specification Section.
 - f. Specification paragraph number and generic name of each item.
 3. Email Transmittal: Provide PDF transmittal. Include digital image file illustrating Sample characteristics and identification information for record.
 4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
 5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units, showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit one full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
 6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
- D. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- E. Design Data: Prepare and submit written and graphic information indicating compliance with indicated performance and design criteria in individual Specification Sections. Include list of assumptions and summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Number each page of submittal.
- F. Test and Research Reports:

1. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.
2. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
3. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
 - a. Name of evaluation organization.
 - b. Date of evaluation.
 - c. Time period when report is in effect.
 - d. Product and manufacturers' names.
 - e. Description of product.
 - f. Test procedures and results.
 - g. Limitations of use.

1.8 DELEGATED-DESIGN SERVICES

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

1.9 CONTRACTOR'S REVIEW

- A. Action Submittals and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.

- B. Contractor's Approval: Indicate Contractor's approval for each submittal with a uniform approval stamp. Include name and signature of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.
 - 1. Architect will not review submittals received from Contractor that do not have Contractor's review and approval.

1.10 ARCHITECT'S REVIEW

- A. Action Submittals: Architect will review each submittal, indicate corrections or revisions required, and return.
 - 1. PDF Submittals: Architect will indicate, via markup on each submittal, the appropriate action.
- B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Architect will return without review or discard submittals received from sources other than Contractor.
- F. Submittals not required by the Contract Documents will be returned by Architect without action.
- G. Continued submission of revised rejected submittals is not allowed. Architect will review a maximum of two re-submittals of a previously rejected submittal. Additional submission will require compensation to Owner.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013300

SECTION 013516 – ALTERATION PROJECT PROCEEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes special procedures for alteration work.

1.2 DEFINITIONS

- A. Alteration Work: This term includes remodeling, renovation, repair, and maintenance work performed within existing spaces or on existing surfaces as part of the Project.
- B. Consolidate: To strengthen loose or deteriorated materials in place.
- C. Design Reference Sample: A sample that represents the Architect's prebid selection of work to be matched; it may be existing work or work specially produced for the Project.
- D. Dismantle: To remove by disassembling or detaching an item from a surface, using gentle methods and equipment to prevent damage to the item and surfaces; disposing of items unless indicated to be salvaged or reinstalled.
- E. Match: To blend with adjacent construction and manifest no apparent difference in material type, species, cut, form, detail, color, grain, texture, or finish; as approved by Architect.
- F. Refinish: To remove existing finishes to base material and apply new finish to match original, or as otherwise indicated.
- G. Repair: To correct damage and defects, retaining existing materials, features, and finishes. This includes patching, piecing-in, splicing, consolidating, or otherwise reinforcing or up-grading materials.
- H. Replace: To remove, duplicate, and reinstall entire item with new material. The original item is the pattern for creating duplicates unless otherwise indicated.
- I. Replicate: To reproduce in exact detail, materials, and finish unless otherwise indicated.
- J. Reproduce: To fabricate a new item, accurate in detail to the original, and from either the same or a similar material as the original, unless otherwise indicated.
- K. Retain: To keep an element or detail secure and intact.
- L. Strip: To remove existing finish down to base material unless otherwise indicated.

1.3 COORDINATION

A. Alteration Work Subschedule: A construction schedule coordinating the sequencing and scheduling of alteration work for entire Project, including each activity to be performed, and based on Contractor's Construction Schedule. Secure time commitments for performing critical construction activities from separate entities responsible for alteration work.

1. Schedule construction operations in sequence required to obtain best Work results.
2. Coordinate sequence of alteration work activities to accommodate the following:
 - a. Owner's continuing occupancy of portions of existing building.
 - b. Owner's partial occupancy of completed Work.
 - c. Other known work in progress.
 - d. Tests and inspections.
3. Detail sequence of alteration work, with start and end dates.
4. Utility Services: Indicate how long utility services will be interrupted. Coordinate shutoff, capping, and continuation of utility services.
5. Use of elevator and stairs.
6. Equipment Data: List gross loaded weight, axle-load distribution, and wheel-base dimension data for mobile and heavy equipment proposed for use in existing structure. Do not use such equipment without certification from Contractor's professional engineer that the structure can support the imposed loadings without damage.

B. Pedestrian and Vehicular Circulation: Coordinate alteration work with circulation patterns within Project building(s) and site. Some work maybe near circulation patterns. Circulation patterns cannot be closed off entirely and in places can be only temporarily redirected around small areas of work. Contractor shall provide a plan and execute the Work accordingly.

1.4 PROJECT MEETINGS FOR ALTERATION WORK

Coordination Meetings: Coordination meetings specifically for alteration work will be held weekly by the Contractor and their SubContractors. Coordination for alteration work with the Architect and Owner will be discussed during the Bi-weekly Construction Meeting.

1. Agenda: Review and correct or approve minutes of previous coordination meeting. Review other items of significance that could affect progress of alteration work. Include topics for discussion as appropriate to status of Project.
 - a. Alteration Work Subschedule: Review progress since last coordination meeting. Determine whether each schedule item is on time, ahead of schedule, or behind schedule. Determine how construction behind schedule will be expedited with retention of quality; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities are completed within the Contract Time.

- b. Schedule Updating: Revise Contractor's Alteration Work Subschedule after each coordination meeting where revisions to schedule have been made or recognized. Issue revised schedule concurrently with report of each meeting.
- c. Review present and future needs of each entity present;

- 1) Interface requirements of alteration work with other Project Work.
- 2) Status of submittals for alteration work.
- 3) Access to alteration work locations.
- 4) Effectiveness of fire-prevention plan.
- 5) Quality and work standards of alteration work.
- 6) Change Orders for alteration work.

- 2. Reporting: Record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

1.5 MATERIALS OWNERSHIP

- A. If any historic items, relics, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, antiques, and other items of interest or value are uncovered or encountered during the Work, regardless of whether they were previously documented, remain Owner's property.
- 1. Carefully dismantle and salvage each item or object in a manner to prevent damage and protect it from damage, then promptly deliver it to Owner where directed at Project site.

1.6 INFORMATIONAL SUBMITTALS

- A. Alteration Work Subschedule:
 - 1. Submit alteration work subschedule within seven days of date established for commencement of alteration work.
- B. Preconstruction Documentation: Show preexisting conditions of adjoining construction and site improvements that are to remain, including finish surfaces, that might be misconstrued as damage caused by Contractor's alteration work operations.
- C. Alteration Work Program: Submit 10 days before work begins.
- D. Fire-Prevention Plan: Submit 10 days before work begins.

1.7 QUALITY ASSURANCE

- A. Specialist Qualifications: An experienced firm regularly engaged in specialty work similar in nature, materials, design, and extent to alteration work as specified in each Sec-

tion and that has completed a minimum of five recent projects with a record of successful in-service performance that demonstrates the firm's qualifications to perform this work.

1. Field Supervisor Qualifications: Full-time supervisors experienced in specialty work similar in nature, material, design, and extent to that indicated for this Project. Supervisors shall be on-site when specialty work begins and during its progress. Supervisors shall not be changed during Project except for causes beyond the control of the specialist firm.

a. Construct new mockups of required work whenever a supervisor is replaced.

B. Title X Requirement: Each firm conducting activities that disturb painted surfaces shall be a "Lead-Safe Certified Firm" according to 40 CFR 745, Subpart E, and use only workers that are trained in lead-safe work practices.

C. Alteration Work Program: Prepare a written plan for alteration work for whole Project, including each phase or process and protection of surrounding materials during operations. Show compliance with indicated methods and procedures specified in this and other Sections. Coordinate this whole-Project alteration work program with specific requirements of programs required in other alteration work Sections.

1. Dust and Noise Control: Include locations of proposed temporary dust- and noise-control partitions and means of egress from occupied areas coordinated with continuing on-site operations and other known work in progress.
2. Debris Hauling: Include plans clearly marked to show debris hauling routes, turning radii, and locations and details of temporary protective barriers.

D. Fire-Prevention Plan: Prepare a written plan for preventing fires during the Work, including placement of fire extinguishers, fire blankets, rag buckets, and other fire-control devices during each phase or process. Coordinate plan with Owner's fire-protection equipment and requirements. Include fire-watch personnel's training, duties, and authority to enforce fire safety.

E. Safety and Health Standard: Comply with ANSI/ASSP A10.6.

1.8 STORAGE AND HANDLING OF SALVAGED MATERIALS

A. Salvaged Materials:

1. Clean loose dirt and debris from salvaged items unless more extensive cleaning is indicated.
2. Pack or crate items after cleaning; cushion against damage during handling. Label contents of containers.
3. Store items in a secure area until delivery to Owner.
4. Transport items to Owner's storage area on-site as designated by Owner.
5. Protect items from damage during transport and storage.

B. Salvaged Materials for Reinstallation:

1. Repair and clean items for reuse as indicated.
2. Pack or crate items after cleaning and repairing; cushion against damage during handling. Label contents of containers.
3. Protect items from damage during transport and storage.
4. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment unless otherwise indicated. Provide connections, supports, and miscellaneous materials to make items functional for use indicated.

C. Existing Materials to Remain: Protect construction indicated to remain against damage and soiling from construction work. Where permitted by Architect, items may be dismantled and taken to a suitable, protected storage location during construction work and reinstalled in their original locations after alteration and other construction work in the vicinity is complete.

D. Storage: Catalog and store items within a weathertight enclosure where they are protected from moisture, weather, condensation, and freezing temperatures.

1. Identify each item for reinstallation with a nonpermanent mark to document its original location. Indicate original locations on plans, elevations, sections, or photographs by annotating the identifying marks.
2. Secure stored materials to protect from theft.
3. Control humidity so that it does not exceed 85 percent. Maintain temperatures 5 deg F or more above the dew point.

E. Storage Space:

1. Owner will arrange for limited on-site location(s) for free storage of salvaged material. This storage space does not include security and climate control for stored material.
2. Arrange for off-site locations for storage and protection of salvaged material that cannot be stored and protected on-site.

1.9 FIELD CONDITIONS

A. Survey of Existing Conditions: Record existing conditions that affect the Work by use of measured drawings preconstruction photographs and preconstruction videotapes.

1. Comply with requirements specified in Section 013233 "Photographic Documentation."

B. Discrepancies: Notify Architect of discrepancies between existing conditions and Drawings before proceeding with removal and dismantling work.

C. Owner's Removals: Before beginning alteration work, verify in correspondence with Owner that the following items have been removed:

1. Owner will remove the items as noted on the contract drawings.

PART 2 - PRODUCTS - (Not Used)

PART 3 - EXECUTION

3.1 PROTECTION

A. Protect persons, motor vehicles, surrounding surfaces of building, building site, plants, and surrounding buildings from harm resulting from alteration work.

1. Use only proven protection methods, appropriate to each area and surface being protected.
2. Provide temporary barricades, barriers, and directional signage to exclude the public from areas where alteration work is being performed.
3. Erect temporary barriers to form and maintain fire-egress routes.
4. Erect temporary protective covers over walkways and at points of pedestrian and vehicular entrance and exit that must remain in service during alteration work.
5. Contain dust and debris generated by alteration work, and prevent it from reaching the public or adjacent surfaces.
6. Provide shoring, bracing, and supports as necessary. Do not overload structural elements.
7. Protect floors and other surfaces along hauling routes from damage, wear, and staining.
8. Provide supplemental sound-control treatment to isolate demolition work from other areas of the building.

B. Temporary Protection of Materials to Remain:

1. Protect existing materials with temporary protections and construction. Do not remove existing materials unless otherwise indicated.
2. Do not attach temporary protection to existing surfaces except as indicated as part of the alteration work program.

C. Comply with each product manufacturer's written instructions for protections and precautions. Protect against adverse effects of products and procedures on people and adjacent materials, components, and vegetation.

D. Utility and Communications Services:

1. Notify Owner, Architect, authorities having jurisdiction, and entities owning or controlling wires, conduits, pipes, and other services affected by alteration work before commencing operations.
2. Disconnect and cap pipes and services as required by authorities having jurisdiction, as required for alteration work.
3. Maintain existing services unless otherwise indicated; keep in service, and protect against damage during operations. Provide temporary services during interruptions

to existing utilities.

E. Existing Drains: Prior to the start of work in an area, test drainage system to ensure that it is functioning properly. Notify Architect immediately of inadequate drainage or blockage. Do not begin work in an area until the drainage system is functioning properly.

1. Prevent solids such as adhesive or mortar residue or other debris from entering the drainage system. Clean out drains and drain lines that become sluggish or blocked by sand or other materials resulting from alteration work.
2. Protect drains from pollutants. Block drains or filter out sediments, allowing only clean water to pass.

3.2 PROTECTION FROM FIRE

A. General: Follow fire-prevention plan and the following:

1. Comply with NFPA 241 requirements unless otherwise indicated.
2. Remove and keep area free of combustibles, including rubbish, paper, waste, and chemicals, unless necessary for the immediate work.
 - a. If combustible material cannot be removed, provide fire blankets to cover such materials.

B. Heat-Generating Equipment and Combustible Materials: Comply with the following procedures while performing work with heat-generating equipment or combustible materials, including welding, torch-cutting, soldering, brazing, removing paint with heat, or other operations where open flames or implements using high heat or combustible solvents and chemicals are anticipated:

1. Obtain Owner's approval for operations involving use of open-flame or welding or other high-heat equipment. Notify Owner at least 72 hours before each occurrence, indicating location of such work.
2. As far as practicable, restrict heat-generating equipment to shop areas or outside the building.
3. Do not perform work with heat-generating equipment in or near rooms or in areas where flammable liquids or explosive vapors are present or thought to be present. Use a combustible gas indicator test to ensure that the area is safe.
4. Use fireproof baffles to prevent flames, sparks, hot gases, or other high-temperature material from reaching surrounding combustible material.
5. Prevent the spread of sparks and particles of hot metal through open windows, doors, holes, and cracks in floors, walls, ceilings, roofs, and other openings.
6. Fire Watch: Before working with heat-generating equipment or combustible materials, station personnel to serve as a fire watch at each location where such work is performed. Fire-watch personnel shall have the authority to enforce fire safety. Station fire watch according to NFPA 51B, NFPA 241, and as follows:
 - a. Train each fire watch in the proper operation of fire-control equipment and alarms.

- b. Prohibit fire-watch personnel from other work that would be a distraction from fire-watch duties.
 - c. Cease work with heat-generating equipment whenever fire-watch personnel are not present.
 - d. Have fire-watch personnel perform final fire-safety inspection each day beginning no sooner than 30 minutes after conclusion of work in each area to detect hidden or smoldering fires and to ensure that proper fire prevention is maintained.
 - e. Maintain fire-watch personnel at each area of Project site until two hours after conclusion of daily work.
- C. Fire-Control Devices: Provide and maintain fire extinguishers, fire blankets, and rag buckets for disposal of rags with combustible liquids. Maintain each as suitable for the type of fire risk in each work area. Ensure that nearby personnel and the fire-watch personnel are trained in fire-extinguisher and blanket use.
- D. Sprinklers: Where sprinkler protection exists and is functional, maintain it without interruption while operations are being performed. If operations are performed close to sprinklers, shield them temporarily with guards.
- 1. Remove temporary guards at the end of work shifts, whenever operations are paused, and when nearby work is complete.

3.3 PROTECTION DURING APPLICATION OF CHEMICALS

- A. Protect motor vehicles, surrounding surfaces of building, building site, plants, and surrounding buildings from harm or spillage resulting from applications of chemicals and adhesives.
- B. Cover adjacent surfaces with protective materials that are proven to resist chemicals selected for Project unless chemicals being used will not damage adjacent surfaces as indicated in alteration work program. Use covering materials and masking agents that are waterproof and UV resistant and that will not stain or leave residue on surfaces to which they are applied. Apply protective materials according to manufacturer's written instructions. Do not apply liquid masking agents or adhesives to painted or porous surfaces. When no longer needed, promptly remove protective materials.
- C. Do not apply chemicals during winds of sufficient force to spread them to unprotected surfaces.
- D. Neutralize alkaline and acid wastes and legally dispose of off Owner's property.
- E. Collect and dispose of runoff from chemical operations by legal means and in a manner that prevents soil contamination, soil erosion, undermining of paving and foundations, damage to landscaping, or water penetration into building interior.

3.4 GENERAL ALTERATION WORK

- A. Have specialty work performed only by qualified specialists.
- B. Ensure that supervisory personnel are present when work begins and during its progress.
- C. Record existing work before each procedure (preconstruction), and record progress during the work. Use digital preconstruction documentation photographs or video recordings. Comply with requirements in Section 013233 "Photographic Documentation."
- D. Perform surveys of Project site as the Work progresses to detect hazards resulting from alterations.
- E. Notify Architect of visible changes in the integrity of material or components whether from environmental causes including biological attack, UV degradation, freezing, or thawing or from structural defects including cracks, movement, or distortion.
 - 1. Do not proceed with the work in question until directed by Architect.

END OF SECTION 013516

SECTION 014000 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - 2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owner or authorities having jurisdiction are not limited by provisions of this Section.
- C. Related Sections:
 - 1. Division 01 Section "Construction Progress Documentation" for developing a schedule of required tests and inspections.

1.3 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect.

- C. Preconstruction Testing: Tests and inspections performed specifically for the Project before products and materials are incorporated into the Work to verify performance or compliance with specified criteria.
- D. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- E. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
- F. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of five previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.4 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Architect for a decision before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.5 INFORMATIONAL SUBMITTALS

- A. Contractor's Quality-Control Plan: Submit quality-control plan within (10) Ten days of Notice of Award, and not less than (5) five days prior to preconstruction conference. Submit in format acceptable to Architect. Identify personnel, procedures, controls, instructions, tests, records, and forms to be used to carry out Contractor's quality-assurance and quality-control responsibilities. Coordinate with Contractor's construction schedule.
- B. Contractor's Statement of Responsibility: When required by authorities having jurisdiction, submit copy of written statement of responsibility sent to authorities having jurisdiction before starting work on the following systems.
 - 1. Seismic-force resisting system, designated seismic system, or component listed in the designated seismic system quality assurance plan prepared by the Architect.
 - 2. Main wind-force resisting system or a wind-resisting component listed in the wind-force-resisting system quality assurance plan prepared by the Architect.

- C. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.
- D. Schedule of Tests and Inspections: Prepare in tabular form and include the following:
 - 1. Specification Section number and title.
 - 2. Entity responsible for performing tests and inspections.
 - 3. Description of test and inspection.
 - 4. Identification of applicable standards.
 - 5. Identification of test and inspection methods.
 - 6. Number of tests and inspections required.
 - 7. Time schedule or time span for tests and inspections.
 - 8. Requirements for obtaining samples.
 - 9. Unique characteristics of each quality-control service.

1.6 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.
 - 7. Identification of product and Specification Section.
 - 8. Complete test or inspection data.
 - 9. Test and inspection results and an interpretation of test results.
 - 10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
 - 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 - 12. Name and signature of laboratory inspector.
 - 13. Recommendations on retesting and reinspecting.
- B. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.7 QUALITY ASSURANCE

- A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Specialists: Certain Specification Sections require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
 - 1. Requirements of authorities having jurisdiction shall supersede requirements for specialists.
- C. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual Sections; and where required by authorities having jurisdiction, that is acceptable to authorities.
 - 1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
 - 2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.
 - 3. Testing Agency Responsibilities: Submit a certified written report of each test, inspection, and similar quality-assurance service to Architect, with copy to Contractor. Interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from the Contract Documents.

1.8 QUALITY CONTROL

- A. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.
 - 1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
 - 2. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 - 3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
 - 4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 - 5. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
 - 6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.

- B. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- C. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
 - 1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 - 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
 - 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 - 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 - 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 - 6. Do not perform any duties of Contractor.
- D. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
 - 1. Access to the Work.
 - 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 - 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 - 4. Facilities for storage and field curing of test samples.
 - 5. Retain first subparagraph below if required or is not common practice in Project vicinity.
 - 6. Delivery of samples to testing agencies.
 - 7. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 - 8. Security and protection for samples and for testing and inspecting equipment at Project site.
- E. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
 - 1. Schedule times for tests, inspections, obtaining samples, and similar activities.
- F. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents as a component of the

Contractor's quality-control plan. Coordinate and submit concurrently with Contractor's construction schedule. Update as the Work progresses. .

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

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Prepare a record of tests and inspections. Include the following:
 1. Date test or inspection was conducted.
 2. Description of the Work tested or inspected.
 3. Date test or inspection results were transmitted to Architect.
 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and modifications as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Division 01 Section "Execution."
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014000

SECTION 014200 - REFERENCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 DEFINITIONS

- A. General: Basic Contract definitions are included in the Conditions of the Contract.
- B. "Approved": When used to convey Architect's action on Contractor's submittals, applications, and requests, "approved" is limited to Architect's duties and responsibilities as stated in the Conditions of the Contract.
- C. "Directed": A command or instruction by Architect. Other terms including "requested," "authorized," "selected," "required," and "permitted" have the same meaning as "directed."
- D. "Indicated": Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including "shown," "noted," "scheduled," and "specified" have the same meaning as "indicated."
- E. "Furnish": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
- F. "Install": Unload, temporarily store, unpack, assemble, erect, place, anchor, apply, work to dimension, finish, cure, protect, clean, and similar operations at Project site.
- G. "Provide": Furnish and install, complete and ready for the intended use.
- H. "Project Site": Space available for performing construction activities. The extent of Project site is shown on Drawings and may or may not be identical with the description of the land on which Project is to be built.

1.3 INDUSTRY STANDARDS

- A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.

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B. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.

1. For standards referenced by applicable building codes, comply with dates of standards as listed in building codes.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 014200

SECTION 015000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Sections:
 - 1. Division 01 Section "Summary" for work restrictions and limitations on utility interruptions.

1.3 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner's forces, Architect, occupants of Project, testing agencies, and authorities having jurisdiction.
- B. Temporary Water Service: Provide connections and extensions of services as required for construction operations.
 - 1. Pay water-service use charges for water used by all entities for construction operations.
 - 2. Provide a temporary water meter to record the water used by all entities engaged in construction activities for this project.
- C. Temporary Electric Power Service: Provide connections and extensions of services as required for construction operations.
 - 1. Pay electric-power-service use charges for electricity used by all entities for construction operations.
 - 2. Provide a temporary electric meter to record the electricity used by all entities engaged in construction activities for this project.

1.4 INFORMATIONAL SUBMITTALS

- A. Implementation and Termination Schedule: Within 15 days of date established for commencement of the Work, submit schedule indicating implementation and termination dates of each temporary utility.
- B. Temporary Signs: Show fabrication and installation details, including plans, elevations, details, layouts, typestyles, graphic elements, and message content.
- C. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.

1.5 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Portable Chain-Link Fencing and Swing Gate/s to secure Contractors Materials, Trailers, etc.: Minimum 2-inch, 0.148-inch- thick, galvanized steel, chain-link fabric fencing; minimum 6 feet high with galvanized steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top and bottom rails. Provide concrete bases for supporting posts.

2.2 TEMPORARY FACILITIES

- A. Definition: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
- B. Contractors Field Office: The Contractor shall provide and maintain their field office/s and shall maintain it in good condition.
 - 1. Contractor shall provide (1) one field office 12'x40' minimum size.
- C. Availability: Make the field office and its facilities available to the Architect, the Owner and other Prime Contractors throughout the entire construction period. One (1) complete set of Contract Documents including Addenda and Change Orders shall be kept in the field office at all times.

- D. Additional Field Offices: The General Contractor shall provide a separate trailer or shed for use of his workmen, or the storage of tools and materials.

2.3 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. Water Service: Connect to existing water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- C. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
- D. Electric Power Service: Connect to existing electric power service. Maintain equipment in a condition acceptable to Owner.
- E. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
 - 2. Install lighting for Project identification sign.

3.3 SUPPORT FACILITIES INSTALLATION

- A. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
 - 1. Identification Signs: Provide Project identification signs as indicated on Drawings.

2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
- B. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with Division 01 Section "Execution" for progress cleaning requirements.
- C. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- B. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.
 1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
- C. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- D. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.
 1. Prohibit smoking in construction areas.
 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
 4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.5 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.

- B. Maintenance: Maintain facilities in good operating condition until removal.
 - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.

END OF SECTION 015000

SECTION 016000 - PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 SUMMARY

- A. The Work of This Section Includes: Administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for Contractor requirements related to Owner-furnished products.
 - 2. Section 012500 "Substitution Procedures" for requests for substitutions.
 - 3. Section 017700 "Closeout Procedures" for submitting warranties.

1.2 DEFINITIONS

- A. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
 - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
 - 2. New Products: Items that have not previously been incorporated into another project or facility. Salvaged items or items reused from other projects are not considered new products. Items that are manufactured or fabricated to include recycled content materials are considered new products unless otherwise indicated.
 - 3. Comparable Product: Product by named manufacturer that is demonstrated and approved through the comparable product submittal process described in "Comparable Products" Article, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.
- B. Basis-of-Design Product Specification: A specification in which a single manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation. Published attributes and characteristics of basis-of-design product establish salient characteristics of products.
 - 1. Evaluating Comparable Products: In addition to the basis-of-design product description, product attributes and characteristics may be listed to establish the significant qualities related to type, function, in-service performance and physical

properties, weight, dimension, durability, visual characteristics, and other special features and requirements for purposes of evaluating comparable products of additional manufacturers named in the specification. Manufacturer's published attributes and characteristics of basis-of-design product also establish salient characteristics of products for purposes of evaluating comparable products.

- C. Subject to Compliance with Requirements: Where the phrase "Subject to compliance with requirements" introduces a product selection procedure in an individual Specification Section, provide products qualified under the specified product procedure. In the event that a named product or product by a named manufacturer does not meet the other requirements of the specifications, select another named product or product from another named manufacturer that does meet the requirements of the specifications; submit a comparable product request or substitution request, if applicable.
- D. Comparable Product Request Submittal: An action submittal requesting consideration of a comparable product, including the following information:
 - 1. Identification of basis-of-design product or fabrication or installation method to be replaced, including Specification Section number and title and Drawing numbers and titles.
 - 2. Data indicating compliance with the requirements specified in "Comparable Products" Article.
- E. Basis-of-Design Product Specification Submittal: An action submittal complying with requirements in Section 013300 "Submittal Procedures."
- F. Substitution: Refer to Section 012500 "Substitution Procedures" for definition and limitations on substitutions.

1.3 QUALITY ASSURANCE

- A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.
 - 1. Resolution of Compatibility Disputes between Multiple Contractors:
 - a. Contractors are responsible for providing products and construction methods compatible with products and construction methods of other contractors.
 - b. If a dispute arises between the multiple contractors over concurrently selectable but incompatible products, Architect will determine which products will be used.
- B. Identification of Products: Except for required labels and operating data, do not attach or imprint manufacturer or product names or trademarks on exposed surfaces of products or equipment that will be exposed to view in occupied spaces or on the exterior.

1. Labels: Locate required product labels and stamps on a concealed surface, or, where required for observation following installation, on a visually accessible surface that is inconspicuous.
2. Equipment Nameplates: Provide a permanent nameplate on each item of service- or power-operated equipment. Locate on a visually accessible but inconspicuous surface. Include information essential for operation, including the following:
 - a. Name of product and manufacturer.
 - b. Model and serial number.
 - c. Capacity.
 - d. Speed.
 - e. Ratings.
3. See individual identification Sections in Divisions 21, 22, 23, and 26 for additional equipment identification requirements.
4. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Architect will notify Contractor through Owner's Representative of approval or rejection of proposed comparable product request within (15) Business days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later. A/E will provide a substitution review one time only at no cost to the Contractor. If rejected, all subsequent substitutions submitted by the Contractor for that same item(s) will be reviewed by the A/E at the cost of the Contractor. Refer to Specification Section 012500 "Substitution Procedures".
 - a. Form of Approval: As specified in Division 1 Section 01330 "Submittal Procedures."
 - b. Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.

1.4 COORDINATION

- A. Modify or adjust affected work as necessary to integrate work of approved comparable products and approved substitutions.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products, using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions.
- B. Delivery and Handling:
 1. Schedule delivery to minimize long-term storage at Project site and to prevent

- overcrowding of construction spaces.
2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
4. Inspect products on delivery to determine compliance with the Contract Documents and that products are undamaged and properly protected.

C. Storage:

1. Provide a secure location and enclosure at Project site for storage of materials and equipment.
2. Store products to allow for inspection and measurement of quantity or counting of units.
3. Store materials in a manner that will not endanger Project structure.
4. Store products that are subject to damage by the elements under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation and with adequate protection from wind.
5. Protect foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
6. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
7. Protect stored products from damage and liquids from freezing.
8. Provide a secure location and enclosure at Project site for storage of materials and equipment by Owner's construction forces. Coordinate location with Owner.

1.6 PRODUCT WARRANTIES

- A. Warranties specified in other Sections are to be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.

1. Manufacturer's Warranty: Written standard warranty form furnished by individual manufacturer for a particular product and issued in the name of Owner or endorsed by manufacturer to Owner.
2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner and issued in the name of Owner or endorsed by manufacturer to Owner.

- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.

1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
2. Specified Form: When specified forms are included in the Project Manual, prepare a written document, using indicated form properly executed.

3. See other Sections for specific content requirements and particular requirements for submitting special warranties.
- C. Submittal Time: Comply with requirements in Section 017700 "Closeout Procedures."

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

- A. General Product Requirements: Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
 2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
 3. Owner reserves the right to limit selection to products with warranties meeting requirements of the Contract Documents.
 4. Where products are accompanied by the term "as selected," Architect will make selection.
 5. Descriptive, performance, and reference standard requirements in Specifications establish salient characteristics of products.
 6. Or Equal: For products specified by name and accompanied by the term "or equal," "or approved equal," or "or approved," comply with requirements in "Comparable Products" Article to obtain approval for use of an unnamed product.
 - a. Submit additional documentation required by Architect through Construction Manager, (or Architect if there is a Construction Manager for this project), in order to establish equivalency of proposed products. Unless otherwise indicated, evaluation of "or equal" product status is by Architect, whose determination is final.
- B. Product Selection Procedures:
1. Non-Limited List of Products: Where Specifications include a list of names of both available manufacturers and products, provide one of the products listed or an unnamed product that complies with requirements.
 - a. Non-limited list of products is indicated by the phrase "Subject to compliance with requirements, available products that may be incorporated in the Work include, but are not limited to, the following."
 - b. Provision of an unnamed product is not considered a substitution, if the product complies with requirements.
 2. Non-Limited List of Manufacturers: Where Specifications include a list of available manufacturers, provide a product by one of the manufacturers listed or

a product by an unnamed manufacturer that complies with requirements.

- a. Non-limited list of manufacturers is indicated by the phrase "Subject to compliance with requirements, available manufacturers whose products may be incorporated in the Work include, but are not limited to, the following."
 - b. Provision of products of an unnamed manufacturer is not considered a substitution, if the product complies with requirements.
3. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers. Drawings and Specifications may additionally indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product by one of the other named manufacturers.
- a. For approval of products by unnamed manufacturers, comply with requirements in Section 012500 "Substitution Procedures" for substitutions for convenience.
- C. Visual Matching Specification: Where Specifications require the phrase "match Architect's sample," provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches.
1. If no product available within specified category matches and complies with other specified requirements, comply with requirements in Section 012500 "Substitution Procedures" for proposal of product.
- D. Visual Selection Specification: Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or a similar phrase, select a product that complies with requirements. Architect will select color, gloss, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.2 "OR EQUAL" PRODUCTS

- A. Conditions for Consideration of "Or Equal" Products: Architect will consider Contractor's request for an equivalent product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with the following requirements:
1. Evidence that proposed equivalent product does not require revisions to the Contract Documents, is consistent with the Contract Documents, will produce the indicated results, and is compatible with other portions of the Work.
 2. Contractors detailed evaluation of significant qualities of proposed equivalent product with those of the named basis-of-design product. Significant product qualities include attributes, such as type, function, in-service performance and

- physical properties, weight, dimension, durability, visual characteristics, and other specific features and requirements.
3. Evidence that proposed equivalent product provides specified warranty.
 4. List of similar installations for completed projects, with project names and addresses and names and addresses of architects and owners, if requested.
 5. Samples of proposed equivalent product, if requested.
- B. Architect's Action on "Or Equal" Products Submittal: If necessary, Architect will request additional information or documentation for evaluation, as specified in Division 01 Section "Submittal Procedures."
1. Form of Approval of Submittal: As specified in Division 01 Section "Submittal Procedures."
 2. Use product specified if Architect does not issue a decision on use of a proposed equivalent product request within time allocated.
- C. Submittal Requirements, Two-Step Process: Approval by the Architect of Contractor's request for use of a proposed equivalent is not intended to satisfy other submittal requirements. Comply with specified submittal requirements.

PART 3 - EXECUTION (Not Used)

END OF SECTION 016000

SECTION 017300 - EXECUTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Construction layout.
 - 2. Installation of the Work.
 - 3. Cutting and patching.
 - 4. Progress cleaning.
 - 5. Starting and adjusting.
 - 6. Protection of installed construction.
 - 7. Correction of the Work.
- B. Related Sections:
 - 1. Division 01 Section "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning.

1.3 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.
- B. Patching: Fitting and repair work required to restore construction to original conditions after installation of other work.

1.4 QUALITY ASSURANCE

- A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
 - 1. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that

results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.

- a. Water, moisture, or vapor barriers.
 - b. Membranes and flashings.
 - c. Equipment supports.
 - d. Piping, ductwork, vessels, and equipment.
 - e. Noise- and vibration-control elements and systems.
2. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
- B. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of products and equipment.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to the Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions

outside the control of the Contractor, submit a request for information to Architect according to requirements in Division 01 Section "Project Management and Coordination."

3.2 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 - 1. Make vertical work plumb and make horizontal work level.
 - 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
 - 3. Conceal pipes, ducts, and wiring in finished areas, unless otherwise indicated.
 - 4. Maintain minimum headroom clearance of 96 inches in occupied spaces and 90 inches in unoccupied spaces.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- F. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
- G. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
 - 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
 - 2. Allow for building movement, including thermal expansion and contraction.
 - 3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.
- H. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.

3.3 CUTTING AND PATCHING

- A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Temporary Support: Provide temporary support of work to be cut.
- C. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- D. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching in accordance with requirements of Division 01 Section "Summary."
- E. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 - 4. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 - 5. Proceed with patching after construction operations requiring cutting are complete.
- F. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 - 1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.

2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
 - a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
 - b. Restore damaged pipe covering to its original condition.
 3. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition.
- G. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.
- H. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.4 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
 - a. Utilize containers intended for holding waste materials of type to be stored.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
1. Remove liquid spills promptly.
 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.

- F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways.
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.5 STARTING AND ADJUSTING

- A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.
- B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.
- C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- D. Manufacturer's Field Service: Comply with qualification requirements in Division 01 Section "Quality Requirements."

3.6 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.
- B. Comply with manufacturer's written instructions for temperature and relative humidity.

3.7 CORRECTION OF THE WORK

- A. Repair or remove and replace defective construction. Restore damaged substrates and finishes.
 - 1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.

- B. Restore permanent facilities used during construction to their specified condition.
- C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
- D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.
- E. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION 017300

SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Recycling nonhazardous demolition and construction waste.
 - 2. Disposing of nonhazardous demolition and construction waste.

1.3 DEFINITIONS

- A. Construction Waste: Building, structure, and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Disposal: Removal of demolition or construction waste and subsequent salvage, sale, recycling, or deposit in landfill, incinerator acceptable to authorities having jurisdiction, or designated spoil areas on Owner's property.
- C. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
- D. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.4 MATERIALS OWNERSHIP

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

1.5 ACTION SUBMITTALS

- A. Waste Management Plan: Submit plan within 30 days of date established for the Notice to Proceed.

1.6 INFORMATIONAL SUBMITTALS

- A. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- B. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

1.7 WASTE MANAGEMENT PLAN

- A. General: Develop a waste management plan according to requirements in this Section. Plan shall consist of waste identification, waste reduction work plan, and cost/revenue analysis. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.

PART 2 - PRODUCTS – NOT APPLICABLE

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

- A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
 - 1. Comply with operation, termination, and removal requirements in Division 01 Section "Temporary Facilities and Controls."
- B. Waste Management Coordinator: Identify or engage a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan. Coordinator shall be present at Project site full time for duration of Project.
- C. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 - 1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged and recycled.
 - 2. Comply with Division 01 Section "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

3.2 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL

- A. General: Recycle paper and beverage containers used by on-site workers.
- B. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.
- C. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.
 - 1. Provide appropriately marked containers or bins for controlling recyclable waste until removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
 - a. Inspect containers and bins for contamination and remove contaminated materials if found.
 - 2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 - 3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
 - 4. Store components off the ground and protect from the weather.
 - 5. Remove recyclable waste from Owner's property and transport to recycling receiver or processor as often as required to prevent overfilling bins.

3.3 RECYCLING DEMOLITION WASTE

- A. Concrete: Remove reinforcement and other metals from concrete and sort with other metals.
 - 1. Pulverize concrete to maximum 1-1/2-inch size.
- B. Masonry: Remove metal reinforcement, anchors, and ties from masonry and sort with other metals.
 - 1. Pulverize masonry to maximum 1-inch size.
 - 2. Clean and stack undamaged, whole masonry units on wood pallets.
- C. Metals: Separate metals by type.
 - 1. Structural Steel: Stack members according to size, type of member, and length.
 - 2. Remove and dispose of bolts, nuts, washers, and other rough hardware.

- D. Piping: Reduce piping to straight lengths and store by material and size. Separate supports, hangers, valves, sprinklers, and other components by material and size.
- E. Conduit: Reduce conduit to straight lengths and store by material and size.

3.4 RECYCLING CONSTRUCTION WASTE

- A. Packaging:
 - 1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
 - 2. Polystyrene Packaging: Separate and bag materials.
 - 3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
 - 4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.
- B. Wood Materials:
 - 1. Clean Cut-Offs of Lumber: Grind or chip into small pieces.
 - 2. Clean Sawdust: Bag sawdust that does not contain painted or treated wood.
- C. Paint: Seal containers and store by type.

3.5 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged or recycled, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
 - 1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn waste materials.

END OF SECTION 017419

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.
 - 5. Repair of the Work.
- B. Related Requirements:
 - 1. Division 01 Section "Execution" for progress cleaning of Project site.
 - 2. Division 01 Section "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.3 ACTION SUBMITTALS

- A. Product Data: For cleaning agents.
- B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.5 SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.

1.6 FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:
 - 1. Submit a final Application for Payment according to Section 012900 "Payment Procedures."
 - 2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
 - 3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.7 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
 - 1. Organize list of spaces in sequential order.
 - 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
 - 3. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.
 - c. Name of Architect.
 - d. Name of Contractor.

4. Submit list of incomplete items in the following format:
 - a. PDF electronic file. Architect will return annotated file.
 - b. Three paper copies. Architect will return two copies.

1.8 SUBMITTAL OF PROJECT WARRANTIES

- A. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
- B. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
 - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, of rubbish, waste material, litter, and other foreign substances.
 - b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Remove tools, construction equipment, machinery, and surplus material from Project site.

- d. Clean exposed interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
- e. Remove debris and surface dust from limited access spaces, including plenums, shafts, trenches, equipment vaults and similar spaces.
- f. Remove labels that are not permanent.
- g. Wipe surfaces of mechanical and electrical equipment, elevator equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
- h. Leave Project clean and ready for occupancy.

3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
 - 1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
 - 2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that already show evidence of repair or restoration.
 - 3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.

END OF SECTION 017700

SECTION 017823 - OPERATION AND MAINTENANCE DATA

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for preparing operation and maintenance manuals, including the following:
 - 1. Operation and maintenance documentation directory manuals.
 - 2. Systems and equipment operation manuals.
 - 3. Systems and equipment maintenance manuals.
 - 4. Product maintenance manuals.
- B. Related Requirements:
 - 1. Division 01 Section "Submittal Procedures" for submitting copies of submittals for operation and maintenance manuals.

1.3 DEFINITIONS

- A. System: An organized collection of parts, equipment, or subsystems united by regular interaction.
- B. Subsystem: A portion of a system with characteristics similar to a system.

1.4 CLOSEOUT SUBMITTALS

- A. Submit operation and maintenance manuals indicated. Provide content for each manual as specified in individual Specification Sections, and as reviewed and approved at the time of Section submittals. Submit reviewed manual content formatted and organized as required by this Section.
 - 1. Where applicable, clarify and update reviewed manual content to correspond to revisions and field conditions.
- B. Format: Submit operation and maintenance manuals in the following format:

1. Submit on digital media acceptable to Architect. Enable reviewer comments on draft submittals.
 2. Submit three sets of Operation and Maintenance manuals, bound in 3-ring binders, for all equipment and products installed in the project for Owner.
- C. Comply with Division 01 Section "Closeout Procedures" for schedule for submitting operation and maintenance documentation.

1.5 FORMAT OF OPERATION AND MAINTENANCE MANUALS

- A. Manuals, Electronic Files: Submit manuals in the form of a multiple file composite electronic PDF file for each manual type required.
1. Electronic Files: Use electronic files prepared by manufacturer where available. Where scanning of paper documents is required, configure scanned file for minimum readable file size.
 2. File Names and Bookmarks: Bookmark individual documents based on file names. Name document files to correspond to system, subsystem, and equipment names used in manual directory and table of contents. Group documents for each system and subsystem into individual composite bookmarked files, then create composite manual, so that resulting bookmarks reflect the system, subsystem, and equipment names in a readily navigated file tree. Configure electronic manual to display bookmark panel on opening file.

1.6 REQUIREMENTS FOR EMERGENCY, OPERATION, AND MAINTENANCE MANUALS

- A. Organization of Manuals: Unless otherwise indicated, organize each manual into a separate section for each system and subsystem, and a separate section for each piece of equipment not part of a system. Each manual shall contain the following materials, in the order listed:
1. Title page.
 2. Table of contents.
 3. Manual contents.
- B. Title Page: Include the following information:
1. Subject matter included in manual.
 2. Name and contact information for Contractor.
- C. Table of Contents: List each product included in manual, identified by product name, indexed to the content of the volume, and cross-referenced to Specification Section number in Project Manual.
- D. Manual Contents: Organize into sets of manageable size. Arrange contents alphabetically by system, subsystem, and equipment. If possible, assemble instructions for subsystems, equipment, and components of one system into a single binder.

- E. Identification: In the documentation directory and in each operation and maintenance manual, identify each system, subsystem, and piece of equipment with same designation used in the Contract Documents. If no designation exists, assign a designation according to ASHRAE Guideline 4, "Preparation of Operating and Maintenance Documentation for Building Systems."

1.7 OPERATION AND MAINTENANCE DOCUMENTATION DIRECTORY MANUAL

- A. Operation and Maintenance Documentation Directory: Prepare a separate manual that provides an organized reference to emergency, operation, and maintenance manuals. List items and their location to facilitate ready access to desired information. Include the following:
 - 1. List of Systems and Subsystems: List systems alphabetically. Include references to operation and maintenance manuals that contain information about each system.
 - 2. List of Equipment: List equipment for each system, organized alphabetically by system. For pieces of equipment not part of system, list alphabetically in separate list.
 - 3. Tables of Contents: Include a table of contents for each emergency, operation, and maintenance manual.

1.8 SYSTEMS AND EQUIPMENT OPERATION MANUALS

- A. Systems and Equipment Operation Manual: Assemble a complete set of data indicating operation of each system, subsystem, and piece of equipment not part of a system. Include information required for daily operation and management, operating standards, and routine and special operating procedures.
 - 1. Engage a factory-authorized service representative to assemble and prepare information for each system, subsystem, and piece of equipment not part of a system.
 - 2. Prepare a separate manual for each system and subsystem, in the form of an instructional manual for use by Owner's operating personnel.
- B. Content: In addition to requirements in this Section, include operation data required in individual Specification Sections and the following information:
 - 1. System, subsystem, and equipment descriptions. Use designations for systems and equipment indicated on Contract Documents.
 - 2. Operating procedures.
 - 3. Wiring diagrams.
 - 4. Control diagrams.
- C. Descriptions: Include the following:

1. Product name and model number. Use designations for products indicated on Contract Documents.
 2. Manufacturer's name.
 3. Equipment identification with serial number of each component.
 4. Equipment function.
 5. Engineering data and tests.
 6. Complete nomenclature and number of replacement parts.
- D. Operating Procedures: Include the following, as applicable:
1. Startup procedures.
 2. Routine and normal operating instructions.
 3. Instructions on stopping.
- E. Systems and Equipment Controls: Describe the sequence of operation, and diagram controls as installed.
- F. Piped Systems: Diagram piping as installed, and identify color coding where required for identification.

1.9 SYSTEMS AND EQUIPMENT MAINTENANCE MANUALS

- A. Systems and Equipment Maintenance Manuals: Assemble a complete set of data indicating maintenance of each system, subsystem, and piece of equipment not part of a system. Include manufacturers' maintenance documentation, preventive maintenance procedures and frequency, repair procedures, wiring and systems diagrams, lists of spare parts, and warranty information.
1. Engage a factory-authorized service representative to assemble and prepare information for each system, subsystem, and piece of equipment not part of a system.
 2. Prepare a separate manual for each system and subsystem, in the form of an instructional manual for use by Owner's operating personnel.
- B. Content: For each system, subsystem, and piece of equipment not part of a system, include source information, manufacturers' maintenance documentation, maintenance procedures, maintenance and service schedules, spare parts list and source information, maintenance service contracts, and warranties and bonds as described below.
- C. Source Information: List each system, subsystem, and piece of equipment included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual and drawing or schedule designation or identifier where applicable.
- D. Manufacturers' Maintenance Documentation: Include the following information for each component part or piece of equipment:

1. Standard maintenance instructions and bulletins; include only sheets pertinent to product or component installed. Mark each sheet to identify each product or component incorporated into the Work. If data include more than one item in a tabular format, identify each item using appropriate references from the Contract Documents. Identify data applicable to the Work and delete references to information not applicable.
 - a. Prepare supplementary text if manufacturers' standard printed data are not available and where the information is necessary for proper operation and maintenance of equipment or systems.
 2. Drawings, diagrams, and instructions required for maintenance, including disassembly and component removal, replacement, and assembly.
 3. Identification and nomenclature of parts and components.
 4. List of items recommended to be stocked as spare parts.
- E. Maintenance Procedures: Include the following information and items that detail essential maintenance procedures:
1. Test and inspection instructions.
 2. Troubleshooting guide.
 3. Disassembly; component removal, repair, and replacement; and reassembly instructions.
 4. Aligning, adjusting, and checking instructions.
- F. Maintenance and Service Schedules: Include service and lubrication requirements, list of required lubricants for equipment, and separate schedules for preventive and routine maintenance and service with standard time allotment.
1. Scheduled Maintenance and Service: Tabulate actions for daily, weekly, monthly, quarterly, semiannual, and annual frequencies.
 2. Maintenance and Service Record: Include manufacturers' forms for recording maintenance.
- G. Spare Parts List and Source Information: Include lists of replacement and repair parts, with parts identified and cross-referenced to manufacturers' maintenance documentation and local sources of maintenance materials and related services.
- H. Maintenance Service Contracts: Include copies of maintenance agreements with name and telephone number of service agent.
- I. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.
1. Include procedures to follow and required notifications for warranty claims.
- J. Drawings: Prepare drawings supplementing manufacturers' printed data to illustrate the relationship of component parts of equipment and systems and to illustrate control sequence and flow diagrams. Coordinate these drawings with information contained in record Drawings to ensure correct illustration of completed installation.

1. Do not use original project record documents as part of maintenance manuals.

1.10 PRODUCT MAINTENANCE MANUALS

- A. Product Maintenance Manual: Assemble a complete set of maintenance data indicating care and maintenance of each product, material, and finish incorporated into the Work.
- B. Content: Organize manual into a separate section for each product, material, and finish. Include source information, product information, maintenance procedures, repair materials and sources, and warranties and bonds, as described below.
- C. Source Information: List each product included in manual, identified by product name and arranged to match manual's table of contents. For each product, list name, address, and telephone number of Installer or supplier and maintenance service agent, and cross-reference Specification Section number and title in Project Manual and drawing or schedule designation or identifier where applicable.
- D. Product Information: Include the following, as applicable:
 1. Product name and model number.
 2. Manufacturer's name.
 3. Reordering information for specially manufactured products.
- E. Maintenance Procedures: Include manufacturer's written recommendations and the following:
 1. Inspection procedures.
 2. Types of cleaning agents to be used and methods of cleaning.
 3. Schedule for routine cleaning and maintenance.
 4. Repair instructions.
- F. Repair Materials and Sources: Include lists of materials and local sources of materials and related services.
- G. Warranties and Bonds: Include copies of warranties and bonds and lists of circumstances and conditions that would affect validity of warranties or bonds.
 1. Include procedures to follow and required notifications for warranty claims.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 017823

SECTION 017839 - PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for Project Record Documents, including the following:
 - 1. Record Drawings.
 - 2. Record Specifications.
 - 3. Record Product Data.
 - 4. Miscellaneous record submittals.
- B. Related Requirements:
 - 1. Division 01 Section "Execution" for final property survey.
 - 2. Division 01 Section "Closeout Procedures" for general closeout procedures.
 - 3. Division 01 Section "Operation and Maintenance Data" for operation and maintenance manual requirements.

1.3 CLOSEOUT SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit one set(s) of marked-up record prints.
 - 2. Number of Copies: Submit copies of Record Drawings as follows:
 - a. Final Submittal:
 - 1) Submit PDF electronic files of scanned Record Prints and three set(s) of file prints.
 - 2) Print each drawing, whether or not changes and additional information were recorded.
- B. Record Specifications: Submit three paper copy sets, and an annotated PDF electronic files of Project's Specifications, including addenda and Contract modifications.
- C. Record Product Data: Submit [annotated PDF electronic files and directories] [and] <Insert number> [paper copies] of each submittal.

1. Where record Product Data are required as part of operation and maintenance manuals, submit duplicate marked-up Product Data as a component of manual.
- D. Miscellaneous Record Submittals: See other Specification Sections for miscellaneous record-keeping requirements and submittals in connection with various construction activities. Submit annotated PDF electronic files and directories and three paper copies of each submittal.
 - a. Reports: Submit written report Bi-weekly indicating items incorporated into Project Record Documents concurrent with progress of the Work, including revisions, concealed conditions, field changes, product selections, and other notations incorporated.
- E. Record Documents:
 1. Maintenance Bond
 2. AIA document G706 - Contractor's Affidavit of Payment of Debts and Claims
 3. AIA document G706A - Contractor's Affidavit of Release of Liens
 4. AIA document G707 - Consent of Surety to Final Payment
 5. Manufacturer's warranties
 6. Certified payroll reports
 7. Final monthly project manning report

1.4 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued.
 1. Preparation: Mark record prints to show the actual installation, where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Accurately record information in an acceptable drawing technique.
 - c. Record data as soon as possible after obtaining it.
 - d. Record and check the markup before enclosing concealed installations.
 - e. Cross-reference record prints to corresponding photographic documentation.
 2. Content: Types of items requiring marking include, but are not limited to, the following:
 - a. Dimensional changes to Drawings.
 - b. Revisions to details shown on Drawings.
 - c. Depths of foundations.
 - d. Locations and depths of underground utilities.
 - e. Revisions to routing of piping and conduits.

- f. Revisions to electrical circuitry.
 - g. Duct size and routing.
 - h. Changes made by Change Order or Change Directive.
 - i. Details not on the original Contract Drawings.
 3. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
 4. Mark record prints with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
 5. Mark important additional information that was either shown schematically or omitted from original Drawings.
 6. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Format: Identify and date each Record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
 1. Record Prints: Organize record prints into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 2. Format: Annotated PDF electronic and Auto CAD files as follows:
 - a. Provide a complete set of updated as-built mylar drawings.
 - b. Provide an electronic copy of the drawings in AutoCAD 2024, including title blocks, names, and logos. It may be restricted by the consultant to prevent revisions.
 - 1) This shall be used by owner for its record archives and for printing additional copies as required.
 - c. Provide a second electronic copy of the drawings in AutoCAD 2024. It may be provided with the consultants' name, title block, logo, and other such information removed in order to protect the consultant from future liability due to drawing revisions by others.
 - 1) This shall be provided with unlocked layers, including all "X-REF's" in a format that will allow owner to make revisions in order to update facility drawings.
 3. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.
 4. Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Architect.
 - e. Name of Contractor.

1.5 RECORD SPECIFICATIONS

- A. Preparation: Mark Specifications to indicate the actual product installation, where installation varies from that indicated in Specifications, addenda, and Contract modifications.
 - 1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 - 2. Note related Change Orders and Record Drawings where applicable.
- B. Format: Submit record specifications as annotated PDF electronic file, paper copy or scanned PDF electronic file(s) of marked-up paper copy of Specifications.

1.6 RECORD PRODUCT DATA

- A. Recording: Maintain one copy of each submittal during the construction period for Project Record Document purposes. Post changes and revisions to Project Record Documents as they occur; do not wait until end of Project.
- B. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
 - 1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 - 2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
 - 3. Note related Change Orders, Record Specifications, and Record Drawings where applicable.
- C. Format: Submit Record Product Data as annotated PDF electronic file, paper copy or scanned PDF electronic file(s) of marked-up paper copy of Product Data.
 - 1. Include Record Product Data directory organized by Specification Section number and title, electronically linked to each item of Record Product Data.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 017839

SECTION 024119 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. The Work of this Section Includes:

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

B. Related Requirements:

1. Section 011000 "Summary" for restrictions on use of the premises, Owner-occupancy requirements, and phasing requirements.
2. Section 017300 "Execution" for cutting and patching procedures.
3. Section 013516 "Alteration Project Procedures" for general protection and work procedures for alteration projects.

1.2 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of off-site unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Salvage: Detach items from existing construction, in a manner to prevent damage, and deliver to Owner as indicated.
- C. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage; prepare for reuse; and reinstall where indicated.
- D. Existing to Remain: Existing items of construction that are not to be removed.

1.3 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.4 COORDINATION

- A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

1.5 PREINSTALLATION MEETINGS

- A. Predemolition Conference: Conduct conference at Project site.
 - 1. Inspect and discuss condition of construction to be selectively demolished.
 - 2. Review and finalize selective demolition schedule and verify availability of demolition personnel, equipment, and facilities needed to make progress and avoid delays.
 - 3. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
 - 4. Review areas where existing construction is to remain and requires protection.
 - 5. Review and finalize protection requirements.
 - 6. Review procedures for noise control and dust control.
 - 7. Review storage, protection, and accounting for items to be removed for salvage or reinstallation.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Statements: For refrigerant recovery technician.
- B. Survey of Existing Conditions: Submit survey.
- C. Schedule of Selective Demolition Activities: Indicate the following:
 - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
 - 2. Temporary interruption of utility services. Indicate how long utility services will be interrupted.
 - 3. Coordination for shutoff, capping, and continuation of utility services.
 - 4. Use of elevator and stairs.
 - 5. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
- D. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed in accordance with EPA regulations. Include name and address of technician and date refrigerant was recovered.
- E. Warranties: Documentation indicating that existing warranties are still in effect after completion of selective demolition.

1.7 CLOSEOUT SUBMITTALS

- A. Inventory: Submit a list of items that have been removed and salvaged.

1.8 QUALITY ASSURANCE

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

1.9 FIELD CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials:
 - 1. It is not expected that hazardous materials will be encountered in the Work.
 - a. Hazardous materials will be removed by Owner before start of the Work.
 - b. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
- E. On-site sale of removed items or materials is not permitted.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.
 - 1. Maintain the existing building structure, envelope, and interior nonstructural elements of an abandoned or blighted building. Do not demolish such existing construction beyond indicated limits.
 - 2. Maintain the existing building structural systems where indicated to remain. Do not demolish such existing construction beyond indicated limits.

3. Maintain the existing interior ceilings, interior partitions, and/or demountable walls where indicated to remain. Do not demolish such existing construction beyond indicated limits.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Review Project Record Documents of existing construction or other existing condition and hazardous material information provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Project Record Documents.
- C. Verify that hazardous materials have been remediated before proceeding with building demolition operations.
- D. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs or video, measured drawings and templates. Comply with Section 013233 "Photographic Documentation."
 1. Inventory and record the condition of items to be removed for salvage or reinstallation. Photograph or video conditions that might be misconstrued as damage caused by removal.
 2. Photograph or video existing conditions of adjoining construction including finish surfaces, that might be misconstrued as damage caused by selective demolition operations or removal of items for salvage or reinstallation.

3.2 PREPARATION

- A. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
 1. Strengthen or add new supports when required during progress of selective demolition.
- B. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
 2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to

- prevent water leakage and damage to structure and interior areas.
 - 3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
 - 4. Cover and protect furniture, furnishings, and equipment that have not been removed.
 - 5. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Section 015000 "Temporary Facilities and Controls."
- C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location and cleaned and reinstalled in their original locations after selective demolition operations are complete.
- D. Refrigerant: Before starting demolition, remove refrigerant from mechanical equipment in accordance with 40 CFR 82 and regulations of authorities having jurisdiction.

3.3 UTILITY SERVICES AND BUILDING SYSTEMS

- A. Existing Services/Systems to Remain: Maintain utilities and building systems and equipment to remain and protect against damage during selective demolition operations.
- 1. Maintain fire-protection facilities in service during selective demolition operations.
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utilities and building systems serving areas to be selectively demolished.
- 1. Owner will arrange to shut off indicated utilities when requested by Contractor.
 - 2. Arrange to shut off utilities with utility companies.
 - 3. If disconnection of utilities and building systems will affect adjacent occupied parts of the building, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to those parts of the building.
 - 4. Demolish and remove existing building systems, equipment, and components indicated on Drawings to be removed.
 - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
 - b. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
 - c. Equipment to Be Removed: Disconnect and cap services and remove equipment and components.
 - 5. Abandon existing building systems, equipment, and components indicated on Drawings to be abandoned in place.
 - a. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with

- same or compatible piping material and leave in place.
 - b. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.
- 6. Remove and reinstall/salvage existing building systems, equipment, and components indicated on drawings to be removed and reinstalled or removed and salvaged:
 - a. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment and components; when appropriate, reinstall, reconnect, and make equipment operational.
 - b. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and components and deliver to Owner.

3.4 SALVAGE/REINSTALL

A. Removed and Salvaged Items:

- 1. Clean salvaged items.
- 2. Pack or crate items after cleaning. Identify contents of containers with label indicating elements, date of removal, quantity, and location where removed.
- 3. Store items in a secure area until delivery to Owner.
- 4. Transport items to Owner's storage area on-site as designated by Owner.
- 5. Protect items from damage during transport and storage.

B. Removed and Reinstalled Items:

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

3.5 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

- 1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
- 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.

3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
5. Maintain fire watch during and for at least 8 hours after flame-cutting operations.
6. Maintain adequate ventilation when using cutting torches.
7. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
8. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
9. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.

B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

1. Do not close or obstruct streets, walks, walkways, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed trafficways if required by authorities having jurisdiction.
2. Use water mist and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations. Do not use water when it may damage adjacent construction or create hazardous or objectionable conditions, such as ice, flooding, and pollution.

3.6 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

A. Concrete:

1. Demolish in small sections. Using power-driven saw, cut concrete to a depth of at least 3/4 inch at junctures with construction to remain. Dislodge concrete from reinforcement at perimeter of areas being demolished, cut reinforcement, and then remove remainder of concrete. Neatly trim openings to dimensions indicated.
2. Demolish in sections. Cut concrete full depth at junctures with construction to remain and at regular intervals using power-driven saw, and then remove concrete between saw cuts.

B. Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, and then remove masonry between saw cuts.

C. Concrete Slabs-on-Grade: Saw-cut perimeter of area to be demolished, and then break up and remove.

D. Resilient Floor Coverings: Remove floor coverings and adhesive in accordance with

recommendations in RFCI's "Recommended Work Practices for the Removal of Resilient Floor Coverings." Do not use methods requiring solvent-based adhesive strippers.

3.7 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction, and recycle or dispose of them in accordance with Section 017419 "Construction Waste Management and Disposal."
 - 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
 - 4. Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."
- B. Burning: Do not burn demolished materials.

3.8 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119

SECTION 064023 - INTERIOR ARCHITECTURAL WOODWORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Shop finishing of interior woodwork.
- B. Related Sections:
 - 1. Division 06 Sections "Plastic-Laminate-Faced Architectural Cabinets."

1.3 DEFINITIONS

- A. Interior architectural woodwork includes wood furring, blocking, shims, and hanging strips for installing woodwork items unless concealed within other construction before woodwork installation.

1.4 SUBMITTALS

- A. Product Data: For panel products and accessories and finishing materials and processes.
- B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, shelving and other components.
 - 1. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
 - 2. Show locations and sizes of cutouts and holes for plumbing fixtures and other items installed in architectural woodwork. Show wiring as required for lighting elements.
- C. Samples for Verification:
 - 1. Veneer-faced panel products, including cork materials, with or for transparent finish, 8 by 10 inches, for each species and cut. Include at least one face-veneer seam and finish as specified.
 - 2. Exposed hardware and accessories, one unit for each type.

- D. Product Certificates: For each type of product, signed by product manufacturer.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver woodwork until painting and similar operations that could damage woodwork have been completed in installation areas. If woodwork must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Project Conditions" Article.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.
- B. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 - 1. Locate concealed framing, blocking, and reinforcements that support woodwork by field measurements before being enclosed, and indicate measurements on Shop Drawings.

1.7 COORDINATION

- A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that interior architectural woodwork can be supported and installed as indicated.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Provide materials that comply with requirements of AWI's quality standard for each type of woodwork and quality grade specified, unless otherwise indicated.
- B. Wood Products: Comply with the following:
 - 1. Hardboard: AHA A135.4.
 - 2. Medium-Density Fiberboard: ANSI A208.2, Grade MD, made with binder containing no urea formaldehyde.
 - 3. Particleboard: ANSI A208.1, Grade M-2-Exterior Glue.

4. Softwood Plywood: DOC PS 1.
5. Veneer-Faced Panel Products (Hardwood Plywood): HPVA HP-1, made with adhesive containing no urea formaldehyde.

2.2 FIRE-RETARDANT-TREATED MATERIALS

- A. General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this Article that are acceptable to authorities having jurisdiction and with fire-test-response characteristics specified.
 1. Do not use treated materials that do not comply with requirements of referenced woodworking standard or that are warped, discolored, or otherwise defective.
 2. Use fire-retardant-treatment formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.
 3. Identify fire-retardant-treated materials with appropriate classification marking of UL, U.S. Testing, Timber Products Inspection, or another testing and inspecting agency acceptable to authorities having jurisdiction.
- B. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Comply with performance requirements of AWPAC20 (lumber) and AWPAC27 (plywood). Use the following treatment type:
 1. Interior Type A: Low-hygroscopic formulation.
 2. Kiln-dry materials before and after treatment to levels required for untreated materials.
- C. Fire-Retardant Fiberboard: Medium-density fiberboard panels complying with ANSI A208.2, made from softwood fibers, synthetic resins, and fire-retardant chemicals mixed together at time of panel manufacture to achieve flame-spread index of 25 or less and smoke-developed index of 200 or less per ASTM E 84.

2.3 MISCELLANEOUS MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Fire-retardant-treated softwood lumber, kiln dried to less than 15 percent moisture content.
- B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls and elsewhere as required for corrosion resistance. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.
- C. Adhesives, General: Do not use adhesives that contain urea formaldehyde.

2.4 FABRICATION, GENERAL

- A. Interior Woodwork Grade: Unless otherwise indicated, provide Premium-grade interior woodwork complying with referenced quality standard.
- B. Wood Moisture Content: Comply with requirements of referenced quality standard for wood moisture content in relation to ambient relative humidity during fabrication and in installation areas.
- C. Sand fire-retardant-treated wood lightly to remove raised grain on exposed surfaces before fabrication.
- D. Fabricate woodwork to dimensions, profiles, and details indicated. Ease edges to radius indicated for the following:
- E. Complete fabrication, including assembly, finishing, and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- F. Shop-cut openings to maximum extent possible to receive hardware, appliances, plumbing fixtures, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

2.5 SHOP FINISHING

- A. Grade: Provide finishes of same grades as items to be finished.
- B. General: Finish architectural woodwork at fabrication shop as specified in this Section. Defer only final touchup, cleaning, and polishing until after installation.
 - 1. Backpriming: Apply one coat of sealer or primer, compatible with finish coats, to concealed surfaces of woodwork. Apply two coats to back of paneling and to end-grain surfaces. Concealed surfaces of plastic-laminate-clad woodwork do not require backpriming when surfaced with plastic laminate, backing paper, or thermoset decorative panels.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Before installation, condition woodwork to average prevailing humidity conditions in installation areas.

- B. Before installing architectural woodwork, examine shop-fabricated work for completion and complete work as required, including removal of packing and backpriming.

3.2 INSTALLATION

- A. Grade: Install woodwork to comply with requirements for the same grade specified in Part 2 for fabrication of type of woodwork involved.
- B. Assemble woodwork and complete fabrication at Project site to comply with requirements for fabrication in Part 2, to extent that it was not completed in the shop.
- C. Install woodwork level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb (including tops) to a tolerance of 1/8 inch in 96 inches.
- D. Scribe and cut woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
- E. Fire-Retardant-Treated Wood: Handle, store, and install fire-retardant-treated wood to comply with chemical treatment manufacturer's written instructions, including those for adhesives used to install woodwork.
- F. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork and matching final finish if transparent finish is indicated.
- G. Touch up finishing work specified in this Section after installation of woodwork. Fill nail holes with matching filler where exposed.

3.3 ADJUSTING AND CLEANING

- A. Repair damaged and defective woodwork, where possible, to eliminate functional and visual defects; where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.
- B. Clean, lubricate, and adjust hardware.
- C. Clean woodwork on exposed and semi-exposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas.

END OF SECTION 064023

SECTION 064116 - PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Plastic-laminate-faced architectural cabinets.
 - 2. Wood furring, blocking, shims, and hanging strips for installing plastic-laminate-faced architectural cabinets unless concealed within other construction before cabinet installation.
- B. Related Requirements:
 - 1. Division 06 Section "Interior Architectural Woodwork".

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product, including panel products high-pressure decorative laminate adhesive for bonding plastic laminate and cabinet hardware and accessories.
- B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
 - 1. Show details full size.
 - 2. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
 - 3. Show locations and sizes of cutouts and holes for items installed in architectural plastic-laminate cabinets.
- C. Samples for Initial Selection:
 - 1. Plastic laminates.
 - 2. PVC edge material.

D. Samples for Verification:

1. Plastic laminates, 8 by 10 inches, for each color, pattern, and surface finish, with one sample applied to core material and specified edge material applied to one edge.
2. Corner pieces as follows:
 - a. Cabinet-front frame joints between stiles and rails, as well as exposed end pieces, 18 inches high by 18 inches wide by 6 inches deep.
 - b. Miter joints for standing trim.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For fabricator.
- B. Product Certificates: For each type of product.
 1. High-pressure decorative laminate.
 2. Adhesives.

1.5 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.
- B. Installer Qualifications: Fabricator of products.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver cabinets until painting and similar operations that could damage woodwork have been completed in installation areas. If cabinets must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Field Conditions" Article.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install cabinets until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.
- B. Field Measurements: Where cabinets are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1. Locate concealed framing, blocking, and reinforcements that support cabinets by field measurements before being enclosed, and indicate measurements on Shop Drawings.
- C. Established Dimensions: Where cabinets are indicated to fit to other construction, establish dimensions for areas where cabinets are to fit. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

1.8 COORDINATION

- A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that cabinets can be supported and installed as indicated.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Products: The Basis-of-Design for plastic laminates shall be manufactured by Wilsonart or an approved equal. The Plastic Laminate shall be selected by the Architect from the manufacturer's full line of standard laminate colors.

2.2 PLASTIC-LAMINATE-FACED ARCHITECTURAL CABINETS

- A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of architectural plastic-laminate cabinets indicated for construction, finishes, installation, and other requirements.
 1. Provide labels from AWI certification program indicating that woodwork complies with requirements of grades specified.
- B. Grade: Premium.
- C. Type of Construction: Frameless.
- D. Cabinet, Door, and Drawer Front Interface Style: Flush overlay.
- E. Cabinet Material: Cabinet Grade Plywood.
- F. High-Pressure Decorative Laminate: NEMA LD 3, grades as indicated or if not indicated, as required by woodwork quality standard.
- G. Laminate Cladding for Exposed Surfaces:
 1. Horizontal Surfaces: Grade HGS.

2. Postformed Surfaces: Grade HGP.
3. Vertical Surfaces: Grade HGS.
4. Edges: PVC edge banding pieces, in 3 mm thickness.
5. Pattern Direction: Vertically for drawer fronts, doors, and fixed panels.

H. Materials for Semiexposed Surfaces:

1. Surfaces Other Than Drawer Bodies: High-pressure decorative laminate, NEMA LD 3, Grade VGS.
 - a. Edges of Plastic-Laminate Shelves: PVC Edge banding pieces, in 3 mm thickness, matching laminate in color, pattern, and finish.
 - b. For semiexposed backs of panels with exposed plastic-laminate surfaces, provide surface of high-pressure decorative laminate, NEMA LD 3, Grade VGS.
2. Drawer Sides and Backs: Solid-hardwood lumber.
3. Drawer Bottoms: Hardwood plywood.

I. Dust Panels: 1/4-inch plywood or tempered hardboard above compartments and drawers unless located directly under tops.

J. Drawer Construction: Fabricate with exposed fronts fastened to subfront with mounting screws from interior of body.

1. Join subfronts, backs, and sides with glued rabbeted joints supplemented by mechanical fasteners or glued dovetail joints.

K. Colors, Patterns, and Finishes: To be selected by the Architect from the manufacturer's full line of standard laminate colors.

2.3 WOOD MATERIALS

A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of woodwork and quality grade specified unless otherwise indicated.

1. Wood Moisture Content: 5 to 10 percent.

2.4 CABINET HARDWARE AND ACCESSORIES

- A. Frameless Concealed Hinges (European Type): BHMA A156.9, B01602, 100 degrees of opening.
- B. Back-Mounted Pulls: BHMA A156.9, B02011.
- C. Shelf Rests: BHMA A156.9, B04013; metal.

D. Drawer Slides: BHMA A156.9.

1. Grade 1: Side mounted and extending under bottom edge of drawer; type; zinc-plated steel with polymer rollers.
2. For drawers not more than 3 inches high and not more than 24 inches wide, provide Grade 2.
3. For drawers more than 6 inches high or more than 24 inches wide, provide Grade 1HD-100.

E. Exposed Hardware Finishes: For exposed hardware, provide finish that complies with BHMA A156.18 for BHMA finish number indicated.

1. Bright Chromium Plated: BHMA 625 for brass or bronze base; BHMA 651 for steel base.
2. Satin Stainless Steel: BHMA 630.

F. For concealed hardware, provide manufacturer's standard finish that complies with product class requirements in BHMA A156.9.

2.5 MISCELLANEOUS MATERIALS

A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln dried to less than 15 percent moisture content.

B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls and at floors.

C. Adhesive for Bonding Plastic Laminate: Unpigmented contact cement.

1. Adhesive for Bonding Edges: Hot-melt adhesive.

2.6 FABRICATION

A. Fabricate cabinets to dimensions, profiles, and details indicated.

B. Complete fabrication, including assembly and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.

1. Notify Architect seven days in advance of the dates and times woodwork fabrication will be complete.
2. Trial fit assemblies at fabrication shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that various parts fit as

intended and check measurements of assemblies against field measurements before disassembling for shipment.

- C. Shop-cut openings to maximum extent possible to receive hardware, appliances, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Before installation, condition cabinets to average prevailing humidity conditions in installation areas.
- B. Before installing cabinets, examine shop-fabricated work for completion and complete work as required.

3.2 INSTALLATION

- A. Grade: Install cabinets to comply with same grade as item to be installed.
- B. Assemble cabinets and complete fabrication at Project site to the extent that it was not completed in the shop.
- C. Install cabinets level, plumb, true, and straight. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches.
- D. Scribe and cut cabinets to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.
- E. Anchor cabinets to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with woodwork.
 - 1. Use filler matching finish of items being installed.
- F. Cabinets: Install without distortion so doors and drawers fit openings properly and are accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete installation of hardware and accessory items as indicated.
 - 1. Install cabinets with no more than 1/8 inch in 96-inch sag, bow, or other variation from a straight line.

2. Fasten wall cabinets through back, near top and bottom, and at ends not more than 16 inches o.c. with No. 10 wafer-head screws sized for not less than 1-1/2-inch penetration into wood framing, blocking, or hanging strips.

3.3 ADJUSTING AND CLEANING

- A. Repair damaged and defective cabinets, where possible, to eliminate functional and visual defects; where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.
- B. Clean, lubricate, and adjust hardware.
- C. Clean cabinets on exposed and semiexposed surfaces.

END OF SECTION 064116

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Silicone joint sealants.
- B. Related Sections:
 - 1. Division 09 Section "Tiling".

1.3 SUBMITTALS

- A. Product Data: For each joint-sealant product indicated.
- B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.
- C. Samples for Verification: For each kind and color of joint sealant required, provide Samples with joint sealants in 1/2-inch- wide joints formed between two 6-inch- long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.
- D. Joint-Sealant Schedule: Include the following information:
 - 1. Joint-sealant application, joint location, and designation.
 - 2. Joint-sealant manufacturer and product name.
 - 3. Joint-sealant formulation.
 - 4. Joint-sealant color.
- E. Product Certificates: For each kind of joint sealant and accessory, from manufacturer.
- F. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, indicating that sealants comply with requirements.

- G. Preconstruction Compatibility and Adhesion Test Reports: From sealant manufacturer, indicating the following:
 - 1. Materials forming joint substrates and joint-sealant backings have been tested for compatibility and adhesion with joint sealants.
 - 2. Interpretation of test results and written recommendations for primers and substrate preparation needed for adhesion.
- H. Warranties: Sample of special warranties.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
- B. Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
- C. Stain-Test-Response Characteristics: Where sealants are specified to be nonstaining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.
- D. Suitability for Contact with Food: Where sealants are indicated for joints that will come in repeated contact with food, provide products that comply with 21 CFR 177.2600.
- E. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.2 SILICONE JOINT SEALANTS

- A. Acceptable Manufacturers: Subject to compliance with requirements, provide silicone joint sealants by one of the following or equal:
 - 1. Dow Corning Corporation.
 - 2. GE Advanced Materials - Silicones.
 - 3. Polymeric Systems, Inc.
 - 4. Schnee-Morehead, Inc.
- B. Mildew-Resistant, Single-Component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 25, for Use NT.

2.3 JOINT SEALANT BACKING

- A. General: Provide sealant backings of material that are non-staining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), Type B (bicellular material with a surface skin) or any of the preceding types, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.4 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. Masking Tape: Non-staining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
 2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
 - a. Concrete.
 - b. Masonry.
 - c. Unglazed surfaces of ceramic tile.
 3. Remove laitance and form-release agents from concrete.
 4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
 - a. Metal.
 - b. Glass.
 - c. Porcelain enamel.
 - d. Glazed surfaces of ceramic tile.
- B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.

- B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- C. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
 - 1. Do not leave gaps between ends of sealant backings.
 - 2. Do not stretch, twist, puncture, or tear sealant backings.
 - 3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- D. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- E. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
 - 1. Place sealants so they directly contact and fully wet joint substrates.
 - 2. Completely fill recesses in each joint configuration.
 - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- F. Tooling of Non-sag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
 - 1. Remove excess sealant from surfaces adjacent to joints.
 - 2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
 - 3. Provide concave joint profile per Figure 8A in ASTM C 1193, unless otherwise indicated.
 - 4. Provide flush joint profile where indicated per Figure 8B in ASTM C 1193.
 - 5. Provide recessed joint configuration of recess depth and at locations indicated per Figure 8C in ASTM C 1193.
 - a. Use masking tape to protect surfaces adjacent to recessed tooled joints.

3.4 FIELD QUALITY CONTROL

- A. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:
 - 1. Extent of Testing: Test completed and cured sealant curtain wall joints as follows:
 - a. Perform 2 tests for the first 20 feet of joint length for each kind of sealant and joint substrate.

2. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1 in ASTM C 1193 or Method A, Tail Procedure, in ASTM C 1521.
 - a. For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.
 3. Inspect tested joints and report on the following:
 - a. Whether sealants filled joint cavities and are free of voids.
 - b. Whether sealant dimensions and configurations comply with specified requirements.
 - c. Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. Compare these results to determine if adhesion passes sealant manufacturer's field-adhesion hand-pull test criteria.
 4. Record test results in a field-adhesion-test log. Include dates when sealants were installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion results and percent elongations, sealant fill, sealant configuration, and sealant dimensions.
 5. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.
- B. Evaluation of Field-Adhesion Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

3.5 CLEANING

- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.6 PROTECTION

- A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

3.7 JOINT-SEALANT SCHEDULE

- A. Joint-Sealant Application: Mildew-resistant interior joints in vertical surfaces and horizontal non-traffic surfaces.
 - 1. Joint Sealant Location:
 - a. Joints between plumbing fixtures and adjoining walls, floors, and counters.
 - b. Tile control and expansion joints where indicated.
 - 2. Joint Sealant: Mildew resistant, single component, non-sag, neutral curing, Silicone.
 - 3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

END OF SECTION 079200

SECTION 088300 - MIRRORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Annealed monolithic silvered glass mirrors.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. Mirrors. Include description of materials and process used to produce each type of silvered flat glass mirror specified that indicates sources of glass, glass coating components, edge sealer, and quality-control provisions.

1.4 INFORMATIONAL SUBMITTALS

- A. Warranty: Sample of special warranty.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the National Glass Association's Certified Glass Installer Program.
- B. Source Limitations for Mirrors: Obtain mirrors from single source from single manufacturer.
- C. Source Limitations for Mirror Accessories: Obtain mirror glazing accessories from single source.
- D. Glazing Publications: Comply with the following published recommendations:

1. GANA's "Glazing Manual" unless more stringent requirements are indicated. Refer to this publication for definitions of glass and glazing terms not otherwise defined in this Section or in referenced standards.
2. GANA Mirror Division's "Mirrors, Handle with Extreme Care: Tips for the Professional on the Care and Handling of Mirrors."

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect mirrors according to mirror manufacturer's written instructions and as needed to prevent damage to mirrors from moisture, condensation, temperature changes, direct exposure to sun, or other causes.
- B. Comply with mirror manufacturer's written instructions for shipping, storing, and handling mirrors as needed to prevent deterioration of silvering, damage to edges, and abrasion of glass surfaces and applied coatings. Store indoors.

1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install mirrors until ambient temperature and humidity conditions are maintained at levels indicated for final occupancy.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which mirror manufacturer agrees to replace mirrors that deteriorate within specified warranty period. Deterioration of mirrors is defined as defects developed from normal use that are not attributed to mirror breakage or to maintaining and cleaning mirrors contrary to manufacturer's written instructions. Defects include discoloration, black spots, and clouding of the silver film.
 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 BASIS OF DESIGN

- A. Mirror shall be B-1658-2436, manufactured by Bobrick Washroom Equipment, Inc., or an approved equal.

2.2 SILVERED FLAT GLASS MIRRORS

- A. Glass Mirrors, General: ASTM C 1503.
- B. Clear Glass: Mirror Glazing Quality.

1. Nominal Thickness: 3.0 mm.

2.3 MISCELLANEOUS MATERIALS

- A. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- B. Edge Sealer: Coating compatible with glass coating and approved by mirror manufacturer for use in protecting against silver deterioration at mirrored glass edges.
- C. Mirror Mastic: An adhesive setting compound, asbestos-free, produced specifically for setting mirrors and certified by both mirror manufacturer and mastic manufacturer as compatible with glass coating and substrates on which mirrors will be installed.

2.4 MIRROR HARDWARE

- A. Top and Bottom Aluminum J-Channels: Aluminum extrusions with a return deep enough to produce a glazing channel to accommodate mirrors of thickness indicated and in lengths required to cover bottom and top edges of each mirror in a single piece.
 1. Bottom Trim: J-channels formed with front leg and back leg not less than 3/8 and 7/8 inch in height, respectively, and a thickness of not less than 0.04 inch.
 2. Top Trim: J-channels formed with front leg and back leg not less than 5/8 and 1 inch in height, respectively, and a thickness of not less than 0.04 inch.
 3. Finish: Clear bright anodized.
- B. Fasteners: Fabricated of same basic metal and alloy as fastened metal and matching it in finished color and texture where fasteners are exposed.
- C. Anchors and Inserts: Provide devices as required for mirror hardware installation. Provide toothed or lead-shield expansion-bolt devices for drilled-in-place anchors. Provide galvanized anchors and inserts for applications on inside face of exterior walls and where indicated.

2.5 FABRICATION

- A. Mirror Edge Treatment: Flat polished.
 1. Seal edges of mirrors with edge sealer after edge treatment to prevent chemical or atmospheric penetration of glass coating.

2. Require mirror manufacturer to perform edge treatment and sealing in factory immediately after cutting to final sizes.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, over which mirrors are to be mounted, with Installer present, for compliance with installation tolerances, substrate preparation, and other conditions affecting performance of the Work.
- B. Verify compatibility with and suitability of substrates, including compatibility of mirror mastic with existing finishes or primers.
- C. Proceed with installation only after unsatisfactory conditions have been corrected and surfaces are dry.

3.2 PREPARATION

- A. Comply with mastic manufacturer's written installation instructions for preparation of substrates, including coating substrates with mastic manufacturer's special bond coating where applicable.

3.3 INSTALLATION

- A. General: Install mirrors to comply with mirror manufacturer's written instructions and with referenced GANA publications. Mount mirrors accurately in place in a manner that avoids distorting reflected images.
- B. Provide a minimum air space of 1/8 inch between back of mirrors and mounting surface for air circulation between back of mirrors and face of mounting surface.
- C. Wall-Mounted Mirrors: Install mirrors with mastic and mirror hardware. Attach mirror hardware securely to mounting surfaces with mechanical fasteners installed with anchors or inserts as applicable. Install fasteners so heads do not impose point loads on backs of mirrors.
 1. Top and Bottom Aluminum J-Channels: Provide setting blocks 1/8 inch thick by 4 inches long at quarter points. To prevent trapping water, provide, between setting blocks, two slotted weeps not less than 1/4 inch wide by 3/8 inch long at bottom channel.
 2. Install mastic as follows:

- a. Apply barrier coat to mirror backing where approved in writing by manufacturers of mirrors and backing material.
- b. Apply mastic to comply with mastic manufacturer's written instructions for coverage and to allow air circulation between back of mirrors and face of mounting surface.
- c. After mastic is applied, align mirrors and press into place while maintaining a minimum air space of 1/8 inch between back of mirrors and mounting surface.

3.4 CLEANING AND PROTECTION

- A. Protect mirrors from breakage and contaminating substances resulting from construction operations.
- B. Do not permit edges of mirrors to be exposed to standing water.
- C. Maintain environmental conditions that will prevent mirrors from being exposed to moisture from condensation or other sources for continuous periods of time.
- D. Wash exposed surface of mirrors not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash mirrors as recommended in writing by mirror manufacturer.

END OF SECTION 088300

SECTION 093000 - TILING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Quarry tile.
 - 2. Waterproof membrane.
 - 3. Crack isolation membrane.
- B. Related Sections:
 - 1. Division 07 Section "Joint Sealants" for sealing of expansion, contraction, control, and isolation joints in tile surfaces.

1.3 DEFINITIONS

- A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.
- B. Module Size: Actual tile size plus joint width indicated.
- C. Face Size: Actual tile size, excluding spacer lugs.

1.4 PERFORMANCE REQUIREMENTS

- A. Static Coefficient of Friction: For tile installed on walkway surfaces, provide products with the following values as determined by testing identical products per ASTM C 1028:
 - 1. Level Surfaces: Minimum 0.60.
 - 2. Step Treads: Minimum 0.60.
 - 3. Ramp Surfaces: Minimum 0.80.

1.5 SUBMITTALS

- A. Product Data: For each type of product indicated.

- B. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.
- C. Samples for Verification:
 - 1. Full-size units of each type and composition of tile and for each color and finish required.
 - 2. Assembled samples mounted on a rigid panel, with grouted joints, for each type and composition of tile and for each color and finish required. Make samples at least 12 inches square, but not fewer than 4 tiles. Use grout of type and in color or colors approved for completed Work.
 - 3. Full-size units of each type of trim and accessory.
- D. Qualification Data: For qualified Installer.
- E. Product Certificates: For each type of product, signed by product manufacturer.
- F. Material Test Reports: For each tile-setting and -grouting product.

1.6 QUALITY ASSURANCE

- A. Source Limitations for Tile: Obtain tile of each type and color or finish from one source or producer.
 - 1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.
- B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from one manufacturer and each aggregate from one source or producer.
- C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer for each product:
 - 1. Crack isolation membrane.
 - 2. Joint sealants.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.
- B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.

- C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.
- D. Store liquid materials in unopened containers and protected from freezing.
- E. Handle tile that has temporary protective coating on exposed surfaces to prevent coated surfaces from contacting backs or edges of other units. If coating does contact bonding surfaces of tile, remove coating from bonding surfaces before setting tile.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

1.9 EXTRA MATERIALS

- A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Tile and Trim Units: Furnish quantity of full-size units equal to 5 percent of amount installed for each type, composition, color, pattern, and size indicated.
 - 2. Grout: Furnish quantity of grout equal to 5 percent of amount installed for each type, composition, and color indicated.

PART 2 - PRODUCTS

2.1 QUARRY TILES

- A. Quarry Tile Product: Shall match the Existing Quarry Tile, in color, pattern, size, and thickness.

2.2 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
 - 1. Provide tile complying with Standard grade requirements unless otherwise indicated.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards

referenced by TCA installation methods specified in tile installation schedules, and other requirements specified.

- C. Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.
- D. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer unless otherwise indicated.
- E. Factory-Applied Temporary Protective Coating: Where indicated under tile type, protect exposed surfaces of tile against adherence of mortar and grout by pre-coating with continuous film of petroleum paraffin wax, applied hot. Do not coat unexposed tile surfaces.

2.3 QUARRY TILE

- A. Quarry Tile Type: Unglazed.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following, or an approved equal.
 - a. American Olean; a brand of Dal-Tile Corporation
 - b. Daltile; a brand of Dal-Tile Corporation
 - c. Elgin Butler Company
 - d. Metropolitan Ceramics
 - e. Quarry Tile Company
 - 2. Face Size: Shall match existing.
 - 3. Thickness: Shall match existing.
 - 4. Wearing Surface: Shall be abrasive with aggregate embedded in surface, to provide a code-complaint slip resistant tile.
 - 5. Product Use Classification: Interior, Wet.
 - 6. Physical Properties: Chemical resistant when tested with indicated chemicals in accordance with ASTM C650.
 - 7. Tile Color and Pattern: Shall be selected by the Architect from manufacturer's full range.
 - 8. Grout Color: Shall be selected by the Architect from manufacturer's full range.
 - 9. Precoat with temporary protective coating.
 - 10. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable. Provide shapes and sizes to match the existing tile.
 - 11. Base: Shall match existing base.

2.4 CRACK ISOLATION MEMBRANE

- A. General: Manufacturer's standard product that complies with ANSI A118.12 for standard performance and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.

- B. Polyethylene Sheet: Polyethylene faced on both sides with fleece webbing; 0.008-inch nominal thickness.

2.5 SETTING MATERIALS

- A. Latex-Portland Cement Mortar (Thin Set): ANSI A118.4.
 - 1. For wall applications, provide mortar that complies with requirements for non-sagging mortar in addition to the other requirements in ANSI A118.4.
- B. Basis of Design Manufacturer: Subject to compliance with requirements, provide products specified herein manufactured by MAPEI Corporation or an approved equal.

2.6 GROUT MATERIALS

- A. Sand-Portland Cement Grout: ANSI A108.10, composed of white or gray cement and white or colored aggregate as required to produce color indicated.
- B. Standard Cement Grout: ANSI A118.6.
- C. Polymer-Modified Tile Grout: ANSI A118.7.
- A. Basis of Design Manufacturer: Subject to compliance with requirements, provide products specified herein manufactured by MAPEI Corporation or an approved equal.

2.7 ELASTOMERIC SEALANTS

- A. General: Provide sealants, primers, backer rods, and other sealant accessories that comply with the following requirements and with the applicable requirements in Division 07 Section "Joint Sealants."

2.8 MISCELLANEOUS MATERIALS

- A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.
- B. Temporary Protective Coating: Product indicated below that is formulated to protect exposed surfaces of tile against adherence of mortar and grout; compatible with tile, mortar, and grout products; and easily removable after grouting is completed without damaging grout or tile.
 - 1. Grout release in form of manufacturer's standard proprietary liquid coating that is specially formulated and recommended for use as temporary protective coating for tile.

- C. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.
- D. Grout Sealer: Manufacturer's standard product for sealing grout joints and that does not change color or appearance of grout.

2.9 MIXING MORTARS AND GROUT

- A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
- B. Add materials, water, and additives in accurate proportions.
- C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.
 - 1. Verify that substrates for setting tile are firm, dry, clean, free of coatings that are incompatible with tile-setting materials including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
 - 2. Verify that concrete substrates for tile floors installed with bonded mortar bed or thin-set mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.
 - a. Verify that surfaces that received a steel trowel finish have been mechanically scarified.
 - b. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.
 - 3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
 - 4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with thin-set mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
- B. Where indicated, prepare substrates to receive waterproofing by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot toward drains.
- C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 TILE INSTALLATION

- A. Comply with TCA's "Handbook for Ceramic Tile Installation" for TCA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 Series "Specifications for Installation of Ceramic Tile" that are referenced in TCA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
- B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- D. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.
 - 1. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.
 - 2. Where adjoining tiles on floor, base, walls, or trim are specified or indicated to be same size, align joints.
 - 3. Where tiles are specified or indicated to be whole integer multiples of adjoining tiles on floor, base, walls, or trim, align joints unless otherwise indicated.
- E. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
 - 1. Paver Tile: 1/4 inch.

- F. Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.
- G. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
 - 1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.
 - 2. Prepare joints and apply sealants to comply with requirements in Division 07 Section "Joint Sealants."

3.4 CRACK ISOLATION MEMBRANE INSTALLATION

- A. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness and bonded securely to substrate.
- B. Do not install tile or setting materials over crack isolation membrane until membrane has cured.

3.5 CLEANING AND PROTECTING

- A. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
 - 1. Remove latex-portland cement grout residue from tile as soon as possible.
 - 2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.
 - 3. Remove temporary protective coating by method recommended by coating manufacturer and that is acceptable to tile and grout manufacturer. Trap and remove coating to prevent drain clogging.
- B. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.
- C. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
- D. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

3.6 INTERIOR TILE INSTALLATION SCHEDULE

A. Interior Floor Installations, Concrete Subfloor:

1. Tile Installation F113: Thin-set mortar; TCA F113.
 - a. Tile Type: Floor Tile as Scheduled or approved.
 - b. Thin-Set Mortar: Latex- portland cement mortar.
 - c. Grout: As recommended by manufacturer, sand-portland cement or standard sanded cement grout.

B. Interior Wall Installations, Masonry or Concrete:

1. Tile Installation: Thin-set mortar; TCA W2021.
 - a. Tile Type: Wall Tile as approved.
 - b. Thin-Set Mortar: Latex- portland cement mortar.
 - c. Grout: As recommended by manufacturer, sand-portland cement or standard sanded cement grout.

B. Interior Wall Installations, Organic adhesive on gypsum board, TCNA W242:

1. Tile Installation shall be in strict accordance with TCA Installation requirements.
 - a. Tile Type: Wall Tile as selected.
 - b. Grout: Polymer-modified grout as recommended by manufacturer.

END OF SECTION 093000

SECTION 105113 - METAL LOCKERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Heavy-duty metal lockers.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: For metal lockers. Include plans, elevations, sections, details, and attachments to other work.
- C. Samples: For units with factory-applied color finishes.

1.3 INFORMATIONAL SUBMITTALS

- A. Warranty: Sample of special warranty.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance data.

1.5 QUALITY ASSURANCE

- A. Regulatory Requirements: Where metal lockers are indicated to comply with accessibility requirements, comply with Accessibility Guidelines for Buildings and Facilities" and ICC/ANSI A117.1.
- B. Preinstallation Conference: Conduct conference at Project site.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver combination control charts to Owner by registered mail or overnight package service.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal lockers that fail in materials or workmanship, excluding finish, within specified warranty period.
 - 1. Warranty Period for All-Welded Metal Lockers: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications.
- B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with A60 (ZF180) zinc-iron, alloy (galvannealed) coating designation.
- C. Fasteners: Zinc- or nickel-plated steel, slotless-type, exposed bolt heads; with self-locking nuts or lock washers for nuts on moving parts.
- D. Anchors: Material, type, and size required for secure anchorage to each substrate.
 - 1. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls, and elsewhere as indicated, for corrosion resistance.
 - 2. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.

2.2 HEAVY-DUTY METAL LOCKERS

- A. Basis of Design Product:
 - 1. Brand is Tennsco; Louvered Metal Lockers, Manuf Part No. STS-242472-1SD, manufactured by Grainger, or an approved equal.
- B. Locker Arrangement: Single tier, in size as indicated on the contract drawings.
- C. Material: Cold-rolled steel sheet.
- D. Body: Assembled by welding body components together. Fabricate from unperforated steel sheet with 0.048-inch nominal-thickness backs and 16 gage nominal-thickness tops, bottoms, sides, and shelves.
- E. Frames: Channel formed; fabricated from 16 gage nominal-thickness steel sheet; lapped and factory welded at corners; with top and bottom main frames factory welded into vertical main frames. Form continuous, integral door strike full height on vertical main frames.

- F. Doors: One piece; fabricated from 0.075-inch nominal-thickness steel sheet; formed into channel shape with double bend at vertical edges and with right-angle single bend at horizontal edges.
 - 1. Reinforcement: Manufacturer's standard reinforcing angles, channels, or stiffeners for doors more than 15 inches wide; welded to inner face of doors.
 - 2. Door Style: Louvered vents at top and bottom.
- G. Hinges: Welded to door and attached to door frame with no fewer than two factory-installed rivets per hinge that are completely concealed and tamper resistant when door is closed; fabricated to swing 180 degrees.
 - 1. Continuous Hinges: Manufacturer's standard, steel, full height.
- H. Recessed Door Handle and Latch: Stainless-steel cup with integral door pull, recessed so locking device does not protrude beyond face of door; pry and vandal resistant.
- I. Hasp Locks: Hasp lock for padlocks.
- J. Equipment: Equip each metal locker with identification plate and the following unless otherwise indicated:
 - 1. Single-Tier Units: Two single-prong wall hooks on three sides.
- K. Accessories:
 - 1. Legs: 6 inches high; formed by extending vertical frame members, or fabricated from 0.075-inch nominal-thickness steel sheet; welded to bottom of locker.
 - a. Closed Front and End Bases: Fabricated from 0.036-inch nominal-thickness steel sheet.
 - 2. Recess Trim: Fabricated from 0.048-inch nominal-thickness steel sheet.
 - 3. Filler Panels: Fabricated from 0.048-inch nominal-thickness steel sheet.
 - 4. Boxed End Panels: Fabricated from 0.048-inch nominal-thickness steel sheet.
- L. Finish: powder coat.
 - 1. Color(s): To be selected by the Architect from the manufacturer's full range of colors.

2.3 FABRICATION

- A. Fabricate metal lockers square, rigid, and without warp and with metal faces flat and free of dents or distortion. Make exposed metal edges safe to touch and free of sharp edges and burrs.
 - 1. Form body panels, doors, shelves, and accessories from one-piece steel sheet unless otherwise indicated.

2. Provide fasteners, filler plates, supports, clips, and closures as required for complete installation.
- B. Fabricate each metal locker with an individual door and frame; individual top, bottom, and back; and common intermediate uprights separating compartments. Factory weld frame members of each metal locker together to form a rigid, one-piece assembly.
- C. All-Welded Construction: Factory preassemble metal lockers by welding all joints, seams, and connections; with no bolts, nuts, screws, or rivets used in assembly of main locker groups. Factory weld main locker groups into one-piece structures. Grind exposed welds flush.
- D. Accessible Lockers: Fabricate as follows:
 1. Locate bottom shelf no lower than 15 inches above the floor.
 2. Where hooks, coat rods, or additional shelves are provided, locate no higher than 48 inches above the floor.
- E. Hooks: Manufacturer's standard ball-pointed type, aluminum or steel; zinc plated.
- F. Identification Plates: Manufacturer's standard, etched, embossed, or stamped aluminum plates, with numbers and letters at least 3/8 inch high.
- G. Recess Trim: Fabricated with minimum 2-1/2-inch face width and in lengths as long as practical; finished to match lockers.
- H. Filler Panels: Fabricated in an unequal leg angle shape; finished to match lockers. Provide slip-joint filler angle formed to receive filler panel.
- I. Finished End Panels: Designed for concealing unused penetrations and fasteners, except for perimeter fasteners, at exposed ends of nonrecessed metal lockers; finished to match lockers.
 1. Provide one-piece panels for double-row (back-to-back) locker ends.
- J. Center Dividers: Full-depth, vertical partitions between bottom and shelf; finished to match lockers.

2.4 STEEL SHEET FINISHES

- A. Powder-Coat Finish: Immediately after cleaning and pretreating, electrostatically apply manufacturer's standard, baked-polymer, thermosetting powder finish. Comply with resin manufacturer's written instructions for application, baking, and minimum dry film thickness.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install level, plumb, and true; shim as required, using concealed shims.
 - 1. Anchor locker runs at ends and at intervals recommended by manufacturer, but not more than 36 inches o.c. Using concealed fasteners, install anchors through backup reinforcing plates, channels, or blocking as required to prevent metal distortion.
 - 2. Anchor single rows of metal lockers to walls near top and bottom of lockers.
 - 3. Anchor back-to-back metal lockers to floor.
- B. All-Welded Metal Lockers: Connect groups together with standard fasteners, with no exposed fasteners on face frames.
- C. Equipment and Accessories: Fit exposed connections of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.
 - 1. Attach hooks with at least two fasteners.
 - 2. Attach door locks on doors using security-type fasteners.
 - 3. Identification Plates: Identify metal lockers with identification indicated on Drawings.
 - a. Attach plates to each locker door, near top, centered, with at least two aluminum rivets.
 - 4. Attach recess trim to recessed metal lockers with concealed clips.
 - 5. Attach filler panels with concealed fasteners. Locate filler panels where indicated on Drawings.
 - 6. Attach sloping-top units to metal lockers, with closures at exposed ends.
 - 7. Attach finished end panels with fasteners only at perimeter to conceal exposed ends of nonrecessed metal lockers.

END OF SECTION 105113

SECTION 105613 - METAL STORAGE SHELVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Heavy Duty Metal Storage Shelving.

1.2 COORDINATION

- A. Coordinate sizes and locations of blocking and backing required for installation of metal storage shelving attached to wall and ceiling assemblies.
- B. Coordinate locations and installation of metal storage shelving that may interfere with ceiling systems including lighting, HVAC, speakers, sprinklers, access panels, electrical switches or outlets, and floor drains.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include rated capacities, construction details, material descriptions, dimensions of individual components and profiles, and finishes for metal storage shelving.

B. Shop Drawings: For metal storage shelving.

1. Include plans, elevations, sections, and attachment details.
2. Include installation details of connectors, lateral bracing, and special bracing.

C. Samples: For each type of metal storage shelving and for each color specified, in the following sizes:

1. Vertical Supports: 12 inches tall.
2. Shelves: Full size, but not more than 24 inches wide by 12 inches deep.
3. Connectors: Full size.
4. Shelf-Label Holders: Full size.

D. Samples for Selection: For each type of metal storage shelving with factory-applied color finishes.

1. Include Samples of accessories involving color selection.

E. Product Schedule: For metal storage shelving. Use same designations indicated on

Contract Drawings.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of metal storage shelving.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For metal storage shelving to include in maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Shelves: Full-size units equal to 5 percent of amount installed for each type indicated, but no fewer than 3 shelves.
 - 2. Shelf-to-Post Connectors: Full-size units equal to 5 percent of amount installed for each type indicated, but no fewer than 10 connectors.
 - 3. Shelf-Label Holders: Full-size units equal to 5 percent of amount installed for each type indicated, but no fewer than 10 holders.

PART 2 - PRODUCTS

2.1 HEAVY DUTY METAL STORAGE SHELVING

- A. Basis of Design: Heavy Duty Steel Shelving Model Number H-3913, manufactured by Uline Company, or an approved equal.
- B. Each unit has 5 Shelves.
- C. Posts: Fabricated from 14 gauge cold-rolled steel; in [manufacturer's standard] [manufacturer's standard angle or open-box] [1-1/2-by-1-1/2-inch angle] [open-box] shape; with perforations at 1-1/2 inches o.c. to receive beam-to-post connectors.
- D. Flat Metal Shelves: Fabricated steel shelves in 16 gauge with fronts, backs, and sides of shelves with box-formed edges
- E. Overall Unit Width: Shall be 48" unless otherwise indicated on the contract drawings.
- F. Overall Unit Depth: Shall be 24" unless otherwise indicated on the contract drawings.
- G. Overall Unit Height: Shall be 72" unless otherwise indicated on the contract drawings.

H. Steel Finish: powder coat.

1. Color and Gloss: As selected by Architect from manufacturer's full range.

2.2 ANCHORS

- A. Floor Anchors: Galvanized-steel, post-installed expansion anchors. Provide number per unit recommended by manufacturer unless additional anchors are indicated in calculations.
- B. Wall Anchors: Manufacturer's standard, galvanized-steel anchors designed to secure metal storage shelving to adjacent wall. Provide three per shelving unit for each shelving unit adjacent to a wall.

2.3 FABRICATION

- A. Fabricate metal storage shelving components to provide field-assembled units that are square and rigid, with posts plumb and true and shelves flat and free of dents or distortion. Fabricate connections to form a rigid structure, free of buckling and warping.
 1. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners where possible. Locate joints where least conspicuous.
 2. Build in straps, plates, brackets, and other reinforcements as needed to support shelf loading.
 3. Cut, reinforce, drill, and tap metal fabrications to receive hardware, fasteners, and similar items.
- B. Form metal in maximum lengths to minimize joints. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing the Work. Form backs of shelving units of up to 48 inches wide from one piece.
- C. Form edges and corners free of sharp edges or rough areas. Fold back and crimp exposed edges of unsupported sheet metal to form a hem on the concealed side; ease edges of metal plate to radius of approximately 1/32 inch. Shear and punch metals cleanly and accurately. Remove burrs.
- D. Weld corners and seams continuously to develop strength, minimize distortion, and maintain the corrosion resistance of base metals. At exposed locations, finish welds and surfaces smooth and blended so surface is smooth after finishing and contour of welded surface matches that of adjacent surface. Weld before finishing components to greatest extent possible. Remove weld spatter and welding oxides from exposed surfaces before finishing.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine floors for suitable conditions where metal storage shelving will be installed.
- C. Examine walls to which metal storage shelving will be attached for properly located blocking, grounds, or other solid backing for attachment of support fasteners.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Vacuum and clean finished floor over which metal storage shelving is to be installed.

3.3 INSTALLATION

- A. Install metal storage shelving level, plumb, square, rigid, true, and with shelves flat and free of dents or distortion. Make connections to form a rigid structure, free of buckling and warping.
 - 1. Install exposed connections with hairline joints, flush and smooth, using concealed fasteners where possible.
 - 2. Install braces, straps, plates, brackets, and other reinforcements as needed to support shelf loading and as required for stability.
 - 3. Adjust post-base bolt leveler to achieve level and plumb installation.
 - 4. Anchor shelving units to floor with floor anchors through floor plate. Shim floor plate to achieve level and plumb installation.
 - 5. Install seismic restraints.
 - 6. Connect side-to-side and back-to-back shelving units together.
 - 7. Install shelves in each shelving unit at spacing indicated on Contract Drawings.
- B. Accessories:
 - 1. Shelf-Label Holders: Install one on each shelf.
 - a. Install centered within each shelving unit.

3.4 ERECTION TOLERANCES

- A. Erect metal storage shelving to a maximum tolerance from vertical of 1/4 inch in 84 inches of height.

3.5 ADJUSTING

- A. Adjust metal storage shelving so that connectors and other components engage accurately and securely.
- B. Adjust and lubricate operable components to operate smoothly and easily, without binding or warping. Check and readjust operating hardware.
- C. Touch up marred finishes or replace metal storage shelving that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by metal storage shelving manufacturer.
- D. Replace metal storage shelving components that have been damaged beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 105613