

ADDENDUM NUMBER 1

Friday, January 10, 2025

**PROJECT: BRISCOE PARK
COMMUNITY CENTER, GA
GMC PROJECT NO. AATL2300037**

AD1-1 GENERAL:

- A. The following revisions and/or additions to the Drawings and Project Manual are hereby made a part of same, and shall be incorporated in the Work of the Contract the same as if originally included in the Bid and Construction Documents.
- B. Bidders shall acknowledge receipt of this Addendum in writing, as provided on the Proposal Form.
- C. When a revision and/or addition is called for to the Drawings or Project Manual, they shall be fully coordinated with and carried through all applicable Drawings and portions of the Project Manual, including in part, all related Civil, Landscaping, Architectural, Structural, Plumbing, Mechanical, Electrical, and other Documents.

AD1-2 PROJECT MANUAL AND SPECIFICATIONS:

- A. CDBG requirements document has been updated and attached.
- B. Revised 00 00 10 – Table of contents
- C. Revised Section 06 40 00- Custom Arch Woodwork
- D. Revised Section 08 71 00- Door Hardware
- E. Added Section 09 21 26 – Gypsum Board
- F. Revised Section 10 28 13 – Toilet Accessories

AD1-3 DRAWINGS:

- A. A1.11- ENLARGED PLANS
 - 1. Updated Toilet Schedule
- B. A1.22- PLAN DETAILS AND DUMPSTER DETAILS
 - 1. Updated to include more information on dumpster gates and sizing
- C. A4.01- EXTERIOR ELEVATIONS
 - 1. Front Signage was missing from Drawings
- D. A6.01 - ARCH. SITE PLAN DETAILS
 - 1. Included personal Dumpster enclosure door.
- E. A7.01- INTERIOR ELEVATIONS TOILETS
 - 1. Updated type of soap dispenser.
- F. A8.01- FINISH LEGEND AND SCHEDULE
 - 1. Updated Floor type in schedule.

AD1-4 MISCELLANEOUS:

A. Can you provide Geotechnical reports?

GMC Response:

Provided Geo report in the addendum #1.

B. Can you provide sign-in sheet

GMC Response:

Provided in the addendum #1.

C. Contractor answered responses

GMC Response:

We were able to answer most of the questions, attached with addendum #1. The remaining questions will be responded to in the next addendum.

D. Substitution Request

- Bassco Caststone has been reviewed and deemed acceptable.
- Construction Metal Products Inc. (CPM) has been reviewed and deemed acceptable.
- Action Floor System Anchor Flex-DIN/MFMA PUR floor system has been reviewed and deemed acceptable.
 - o Interior environment shall be noted, penalization due to interior environment is not acceptable.
- Jaypro Sports Gymnasium Equipment has been reviewed and deemed acceptable.
 - o Wall mount backstops are not accepted.
- Saniflow SpeedFlow Plus M17ACS has been reviewed and deemed acceptable
- Saniflow BABYMEDI CP0016HCS-ASTM has been reviewed and deemed acceptable.
- Champion Flooring Monoflex 7+2 has been reviewed and deemed acceptable.
- Kodiak Seating by RLS Stewart, LTD. has been reviewed and deemed acceptable.

NOTE: GC IS RESPONSIBLE FOR COORDINATION AMONGST TRADES FOR FULL PERFORMANCE OF APPROVED ALTERNATE SYSTEM.

END OF ADDENDUM NUMBER 1

Attachments – 151 pages (8.5”x11”)
6 pages (30”x42”)
2 pages(17”x11”)

PREPARED BY:



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Tel (770) 952-2481| GMCNETWORK.COM
Goodwyn Mills Cawood, LLC



TO: Prospective Bidders
FROM: Gwinnett County Housing & Community Development
DATE: January 2, 2025
SUBJECT: Community Development Block Grant Public Facilities Certifications

The following CDBG Grant Certifications apply to your proposal or bid. Please complete the required information and submit with your proposal or bid.

If you have any questions, please contact:

Gwinnett County Housing & Community Development
One Justice Square, 446 West Crogan Street, Suite 420
Lawrenceville, GA 30046-2439
Telephone: 678-518-6008
Email: cdbg@gwinnettcountry.com

CDBG Certifications Applicable to This Proposal or Bid:

In accordance with the Housing and Community Development Act of 1974 [hereinafter referred to as "The Act"], as amended, and Community Development Block Grant Program regulations [24 CFR Part 570] and Consolidated Plan regulations [25 CFR Part 91], the Contractor certifies that:

- (a) Regulation Compliance - The Scope of Work for this CDBG funded project/activity will be conducted and administered in compliance with:
1. Title VI of the Civil Rights Act of 1964 (Public Law 88-352, 42 U.S.C. §2000d et sec.);
 2. The Fair Housing Act (42 U.S.C. 3601-20); and
 3. Section 3 of the Housing and Urban Development Act of 1968 and implementing regulations at 24 CFR Part 135.
- (b) Anti-Lobbying - To the best of its knowledge and belief:
1. No Federal appropriated funds have been paid or will be paid, by or on behalf of it, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement;
 2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, it will complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions; and
 3. Consultant will require that the language of paragraph 1 and 2 of this anti-lobbying certification be included in the contract documents for all sub-consultants at all tiers and that all sub-consultants shall certify and disclose accordingly.
- (c) Drug Free Workplace - Consultant/Contractor will or will continue to provide a drug-free workplace by:
1. Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the Contractor's and Subcontractor's workplaces and specifying the actions that will be taken against employees for violation of such prohibition;

2. Establishing an ongoing drug-free awareness program to inform employees about -
 - (a) The dangers of drug abuse in the workplace;
 - (b) Policy for maintaining a drug-free workplace;
 - (c) Any available drug counseling, rehabilitation, and employee assistance programs; and
 - (d) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
3. Making it a requirement that each employee to be engaged in the performance of the contract be given a copy of the statement required by paragraph 1;
4. Notifying the employee in the statement required by paragraph 1 that, as a condition of employment under the contract, the employee will -
 - (a) Abide by the terms of the statement; and
 - (b) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
5. Notifying the Grantee (Gwinnett County) in writing, within ten calendar days after receiving notice under subparagraph 4(b) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including name and position title, to the Grantee's (Gwinnett County) officer or other designee on whose contract activity the convicted employee was working. Notice shall include the identification of each affected Contract;
6. Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph 4(b), with respect to any employee who is so convicted -
 - (a) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
 - (b) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
7. Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs 1, 2, 3, 4, 5, and 6.
8. The Contractor must insert in the space provided below the site(s) for the performance of work done in connection with the specific project/activity:

Place of Performance (Street address, city, county, state, zip code):

(d) Contractor will comply with the provisions of the Act and with other applicable laws.

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

Contractor Information Form

Name of Project:	SAM/CCR #:
DUNS #:	E-Verify #:

1. Minority Owned Business (circle one):

YES NO

Note: Please circle "YES" if the owner(s) and controller(s) share(s) 51% of the business. When 51% or more is not owned and controlled by any single minority/racial/ethnic/gender/category, circle "NO".

2. Identify Race/Ethnicity:

White Americans _____
Black Americans _____
Hispanic Americans _____
Native Americans _____
Asian/Pacific Islanders _____
Multi-Racial/Other _____

3. Female Owned Business (circle one):

YES NO

4. Section 3 Business (circle one):

YES NO

Note: A Section 3 Business is one that can provide evidence that they meet one of the following criteria: 1) 51% or more of the business is owned by Section 3 residents (public housing resident or low- or very low-income person); 2) At least 30% of full-time employees include current Section 3 residents, or residents that were Section 3 residents within three years of the date of hire; or 3) The business can provide evidence of a commitment to subcontract to businesses that meet one of the first two qualifications.

Contractor
Name of Company:
Company Address:
Name of Main Contact:
Phone #:
Email Address:

Subcontractor Information Form

Name of Project:	SAM/CCR #:
DUNS #:	E-Verify #:

1. Minority Owned Business (circle one):

YES NO

Note: Please circle "YES" if the owner(s) and controller(s) share(s) 51% of the business. When 51% or more is not owned and controlled by any single minority/racial/ethnic/gender/category, circle "NO".

2. Identify Race/Ethnicity:

White Americans _____
Black Americans _____
Hispanic Americans _____
Native Americans _____
Asian/Pacific Islanders _____
Multi-Racial/Other _____

3. Female Owned Business (circle one):

YES NO

4. Section 3 Business (circle one):

YES NO

Note: A Section 3 Business is one that can provide evidence that they meet one of the following criteria: 1) 51% or more of the business is owned by Section 3 residents (public housing resident or low- or very low-income person); 2) At least 30% of full-time employees include current Section 3 residents, or residents that were Section 3 residents within three years of the date of hire; or 3) The business can provide evidence of a commitment to subcontract to businesses that meet one of the first two qualifications.

Subcontractor

Name of Company:

Company Address:

Name of Main Contact:

Phone #:

Email Address:

EQUAL OPPORTUNITY PROVISION CERTIFICATIONS [EXECUTIVE ORDER 11246]

EQUAL OPPORTUNITY PROVISIONS:

- A. Executive Order 11246 (Contractors/Subcontracts above \$10,000)
1. Section 2012 Equal Opportunity Clause:

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

- (1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment, or recruitment advertising; layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeships. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to provided setting forth provisions of this nondiscrimination clause.
- (2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration without regard to race, color, religion, sex or national origin.
- (3) The Contractor will send to each labor union or representative or workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the Contract Compliance Officer advising the said labor union or workers' representatives of the Contractor's commitment under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The Contractor will furnish all information and reports required by Executive order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the Department and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and others.
- (6) In the event of the contractor's non-compliance with the non-discrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The Contractor will include the provisions of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the Department may direct as a means of enforcing such provisions, including sanctions for non-compliance. Provide however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the Department the Contractor may request the United State to enter into such litigation to protect the interest of the United States.

SPECIAL EQUAL OPPORTUNITY PROVISIONS:

- A. Activities and Contracts Not Subject to Executive Order 11246, as Amended
(Applicable to Federally assisted construction contracts and related subcontracts \$10,000 and under)

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

- (1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment, or recruitment advertising; layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeships.
- (2) The Contractor shall post in conspicuous places, available to employees and other applicants for employment, notices to be provided by Contracting Officer set forth the provisions of this nondiscrimination clause. The

Contractor shall state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

(3) Contractors shall incorporate foregoing requirements in all subcontracts.

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
CERTIFICATION OF BIDDER REGARDING EQUAL EMPLOYMENT OPPORTUNITY**

INSTRUCTIONS

This certification is required pursuant to Executive Order 11246 (30F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the Equal Opportunity Clause; and, if so, whether it has completed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven calendar days after bid opening. No contract shall be awarded unless such report is submitted.

CERTIFICATION BY BIDDER

Name and Full Address of Bidder _____

1. Has the Bidder participated in a previous contract or subcontract subject to the Equal Opportunity Clause?
 Yes No
2. Were Compliance Reports required in connection with such contract(s) or subcontract(s)?
 Yes No
3. Has the Bidder completed all compliance instructions, including the SF-100?
 Yes No None Required
4. Have you ever been or are you being considered for sanction(s) due to a violation of Executive Order 11246, as amended?
 Yes No

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
CERTIFICATION OF SUBCONTRACTOR REGARDING EQUAL EMPLOYMENT OPPORTUNITY**

Name of Prime Contractor

Project Number

INSTRUCTIONS

This certification is required pursuant to Executive Order 11246 (30F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the Equal Opportunity Clause; and, if so, whether it has completed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven calendar days after bid opening. No contract shall be awarded unless such report is submitted.

SUBCONTRACTOR'S CERTIFICATION

Name and Full Address of Subcontractor _____

1. Has the Subcontractor participated in a previous contract or subcontract subject to the Equal Opportunity Clause?
 Yes No
2. Where Compliance Reports required in connection with such contract(s) or subcontract(s)?
 Yes No
3. Has the Subcontractor completed all compliance instructions, including the SF-100?
 Yes No None Required
4. Have you ever been or are you being considered for sanction(s) due to a violation of Executive Order 11246, as amended?
 Yes No

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
CERTIFICATION OF BIDDER REGARDING NONSEGREGATED FACILITIES**

INSTRUCTIONS

The bidder certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. The bidder certifies further that he/she will not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, any location under his/her control where segregated facilities are maintained. The bidder agrees that a breach of his/her certification will be a violation of the Equal Opportunity clause in any contract resulting from acceptance of this bid. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. The bidder agrees that (except where he/she has obtained identical certification from proposed subcontractors specific time periods) he/she will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause, and that he/she will retain such certifications in his/her files.

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

CERTIFICATION BY BIDDER

Name and Full Address of Bidder

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
CERTIFICATION OF SUBCONTRACTOR REGARDING NONSEGREGATED FACILITIES**

INSTRUCTIONS

The subcontractor certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. The subcontractor certifies further that he/she will not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, any location under his/her control where segregated facilities are maintained. The subcontractor agrees that a breach of his/her certification will be a violation of the Equal Opportunity clause in any contract resulting from acceptance of this bid. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. The subcontractor agrees that (except where he/she has obtained identical certification from proposed subcontractors specific time periods) he/she will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause, and that he/she will retain such certifications in his/her files.

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

SUBCONTRACTOR'S CERTIFICATION

Name and Full Address of Subcontractor

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

Certification Regarding Debarment and Suspension

U.S. Department of Housing and Urban Development

Certification A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions

1. The prospective primary participant certifies to the best of its knowledge and belief that its principals;

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal debarment or agency;

b. Have not within a three-year period preceding this proposal, been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and

d. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Instructions for Certification (A)

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.

2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.

3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

4. The prospective primary participant shall provide immediate written notice to the department or agency to whom this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

5. The terms **covered transaction, debarred, suspended, ineligible, lower tier covered transaction, participant, person, primary covered transaction, principal, proposal, and voluntarily excluded**, as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of these regulations.

6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines this eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

10. Except for transactions authorized under paragraph (6) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

Certification B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Instructions for Certification (B)

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

4. The terms **covered transaction, debarred, suspended, ineligible, lower tier covered transaction, participant, person, primary covered transaction, principal, proposal, and voluntarily excluded**, as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of these regulations.

5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

6. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.

8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph (5) of these instructions, if a participant in a lower covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies including suspension and/or debarment.

Name of Company

Date

Signature of Authorized Certifying Official

Title of Authorized Certifying Official

SECTION 3 CLAUSE OF THE URBAN DEVELOPMENT ACT OF 1968 [135.38 SECTION 3 CLAUSE]

SECTION 3 PLAN

All Section 3 covered contracts shall include the following clause (referred to as the Section 3 clause):

- A. The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.
- B. The parties to this contract agree to comply with HUD's regulations in 24 CFR part 135, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.
- C. The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this Section 3 clause and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.
- D. The contractor agrees to include this Section 3 clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.
- E. The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR part 135.
- F. Noncompliance with HUD's regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.
- G. With respect to work performed in connection with Section 3 covered Indian housing assistance, section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises, Parties to this contract that are subject to the provisions of Section 3 and section 7(b) agree to comply with Section 3 to the maximum extent feasible, but not in derogation of compliance with section 7(b).

SECTION 3 PLAN FORMAT

_____ (Name of Consulting Firm/Contractor),
Agrees to implement the following specific Section 3 Plan directed at increasing the utilization of lower income residents and businesses within Gwinnett County.

- A. To ascertain from Gwinnett County Housing and Community Development the exact boundaries of the Section 3 covered project area. And, where advantageous, seek the assistance of local officials in preparing and implementing the Firm's Section 3 Plan.
- B. To recruit from within the Project Area and Gwinnett County the necessary number of lower income residents through: local advertising media, signs placed at the proposed site for the project, and through community organizations and public or private institutions operating within or serving the project area and Gwinnett County such as the Chamber of Commerce, the Georgia Department of Labor, the JTPA Program, the Urban League, the NAACP, the Local Housing Authorities, and related organizations. The firm will provide Gwinnett County with details on the specific actions which were taken to recruit within the project service area, and within Gwinnett County.
- C. To obtain a list of all lower income area residents who have applied, either on their own or by referral from any source, and to employ such persons, if otherwise eligible, and if a vacancy exists. The firm will submit a list of the residents identified, the sources from which these names were obtained, and any on-going actions which will be made to obtain such lists of eligible Section 3 residents once the Consulting Firm, and all subcontractors, initiate any hiring actions.
- D. To insert the Section 3 Plan in all bid proposal documents, and to require all bidders on subcontracts to submit a Section 3 Plan, including numeric goals and the specific steps planned to accomplish these goals.
- E. To formally contact unions, subcontractors, and trade associations to secure their cooperation for this program. The firm will identify all contacts made, dates for each, and the agreements obtained from each person/agency contacted.
- F. To ensure that all appropriate Section 3 business concerns are notified of pending subcontract opportunities. The firm will detail how the Consulting Firm and subcontractors, will meet the Section 3 contract numeric goals (See TABLE B "Goals" attached), or explain in detail why the numeric goals cannot be met.
- G. To maintain records (Monthly Section 3 Report), including copies of correspondence, memoranda, etc., which document that all of the above action steps have been taken. Any documents which demonstrate that the Consulting Firm will be successful in meeting its overall goals will be incorporated in the Section 3 Plan which is submitted as a part of the Consulting Firm's bid proposal.
- H. To appoint or recruit an executive official of the Consulting Firm, _____, as Section 3 Officer to coordinate the implementation of this Section 3 plan.
- I. To attach Table A - Work Force Needs, on which will be listed all projected work force needs for all phases of this project, by occupation, trade, skill level and number of positions, along with the number of new hires anticipated for this project, and the number of Section 3 residents for which jobs will be made available.
- J. To prepare a detailed Section 3 Plan which addresses, at a minimum, all of the items contained herein. The Consulting Firm is encouraged to provide any other details, and specific information which explains how the firm will meet, or exceed, the numeric goals for Section 3 -- Employment and Contractual.

[SIGNATURES ON NEXT PAGE]

SECTION 3 PLAN - SIGNATURE PAGE

As officers and representative of _____ (Name of Consulting Firm/Contractor), we the undersigned have read and fully agree to this Section 3 Plan and become a party to the full implementation of this program.

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

Name and Title of Additional Signatory

Signature of Additional Signatory

Signature Date

**SECTION 3 PLAN - TABLE A
WORK FORCE NEEDS**

Name of Company

Please list all projected Work Force needs for all phases of the subject project, by trade, skill level and number of positions. Also, please note the number of positions which will be hired during the project period and note those positions which will be filled through eligible Section 3 residents.

Project Name

Type of Occupations/Trade/Skill Level	Number of Positions for Each Skill Level	Number of New Positions to be Hired	Number of New Positions to be Filled with Section 3 Residents

**SECTION 3 PLAN - TABLE B
GOALS**

A. Section 3 Residents - New Hires

Numerical Goals for Resident Employment

For all Section 3 covered contracts [\$100,000 or more], Consulting Firms, and their subcontractors, may demonstrate compliance by committing to employ Section 3 residents as a percentage of the aggregate new hires for each year over the duration of the Section 3 project. The 30 percent of the aggregate number of new hires constitute a safe harbor for Consulting Firms and subcontractors:

Each Consulting Firm, or Subcontractor, must meet the following employment hiring preferences in order to comply with this Section:

- (1) Section 3 residents who reside in the project service area, neighborhood, or within Gwinnett County. The CDBG Program Office should be contacted regarding the priorities, herein.
- (2) Participants in any HUD Youthbuild Programs within Gwinnett County - if this Program becomes available.
- (3) Other Section 3 residents, such as public housing, Section 8, JTPA or other very low- and low-income residents within Gwinnett County.
- (4) If McKinney Homeless Assistance Act funds [i.e., ESG Program or other McKinney Funds received by Gwinnett County] are used on a covered Section 3 project, then homeless persons residing in the project service area must be given the highest priority.

B. Section 3 Business Concerns

Numerical Goals for Contracting

For all Section 3 contracts, Consulting Firm and their subcontractors may demonstrate compliance by committing to award to Section 3 business concerns:

- (1) At least 10 percent of the total dollar amount of all Section 3 covered contracts for "building trades work", arising in connection with housing rehabilitation, housing construction and other public construction; and
- (2) At least three (3) percent of the total dollar amount of all other Section 3 covered contracts, i.e., management, clerical, professional services.
- (3) Section 3 Business Concern: A Section 3 Business Concern is defined as a company that meets one or more of the following criteria:
 - (a) 51% of the business is owned by Section 3 residents.
 - (b) 30% of the employees are Section 3 residents.
 - (c) 25% of the total subcontracts are awarded to other businesses that meet 3 (a) or (b).

C. Definitions

Section 3 Residents - (1) A public housing resident, or (2) an individual who resides in Gwinnett County and is a low-income person, or very low-income person. Low-income person is defined as to mean families (including single persons) whose incomes do not exceed 80 per centum of the median income for the Metropolitan Atlanta area. A very Low- income person is defined as to mean families (including single persons) whose incomes do not exceed 50 per centum of the median income for the Metropolitan Atlanta area.

Section 3 Business Concerns - means a business concern that is (1) 51 percent or more owned by Section 3 residents; or (2) whose permanent, full - time employees include persons, at least 30 percent of whom are currently Section 3 residents, or within three years of the date of first employment with the business concern were Section 3 residents; or (3) that provides evidence of a commitment to subcontract in excess of 25 percent of the dollar award of all subcontracts to be awarded to business concerns that meet the qualifications set forth in (1) and (2) of this definition.

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
CERTIFICATION OF BIDDER REGARDING SECTION 3 AND NONSEGREGATED FACILITIES**

The undersigned hereby certifies that:

- (a) Section 3 provisions are included in the Contract; and
- (b) No segregated facilities will be maintained as required by Title VI of the Civil Rights Act of 1964.

CERTIFICATION BY BIDDER

Name and Full Address of Bidder

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
CERTIFICATION OF SUBCONTRACTOR REGARDING SECTION 3 AND NONSEGREGATED FACILITIES**

The undersigned hereby certifies that:

- (a) Section 3 provisions are included in the Contract; and
- (b) No segregated facilities will be maintained as required by Title VI of the Civil Rights Act of 1964.

SUBCONTRACTOR'S CERTIFICATION

Name and Full Address of Subcontractor

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
CERTIFICATION OF BIDDER CONCERNING LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS**

Name of Project _____ Project Number (if applicable) _____

The undersigned, having executed a contract for the construction of the above-identified project, acknowledges that:

- (a) The Labor Standards provisions are included in the aforesaid contract; and
- (b) Correction of any infractions of the aforesaid conditions, including infractions by any of his subcontracts and any lower tier subcontractors, is his responsibility.

The undersigned certifies that:

- (a) Neither he nor any firm, partnership, or association in which he has substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6 (b) of the regulations of the Secretary of Labor, Part 5 (29 CFR, Part 5) or pursuant to Section 5(a) of the Davis-Bacon Act, as amended (40 U.S.C. 276a-2(a));
- (b) No part of the aforementioned contract has been or will be subcontracted to any subcontractor if such subcontractor or any firm, corporation, partnership, or association in which such subcontractor has a substantial interest in designated as an ineligible contractor pursuant to any of the aforementioned regulatory or statutory provisions; and
- (c) He agrees to obtain and forward to the aforementioned recipient within ten days after the execution of any subcontract, including those executed by his subcontractors and any lower tier subcontractors, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wage Requirements executed by the subcontractors.

CONTRACTOR'S CERTIFICATION

Legal Name and Business Address of Contractor:

The undersigned is:

- A Single Proprietorship
- A Corporation Organized in the State of _____
- A Partnership
- Other Organization - Describe _____

[Certification Continues on the Next Page]

CONTRACTOR'S CERTIFICATION (continued)

The name, title and address of the owner, partner or officers of the undersigned are:

Name	Title	Address

The names and addresses of all other persons, both natural and corporate, having a substantial interest in the undersigned, and the nature of the interest are (If none, so state):

Name	Title	Address

The names, addresses and trade classifications or all other building construction contractors in which the undersigned has a substantial interest are (If none, so state):

Name	Title	Address

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

WARNING

U.S. Criminal Code, Section 1010, Title 18, U.S.C., provides in part: "Whoever... makes, passes, utters or publishes any statement, knowing the same to be false... shall be fined not more than \$5,000 or imprisoned not more than two years, or both."

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
CERTIFICATION OF SUBCONTRACTOR CONCERNING LABOR STANDARDS AND PREVAILING WAGE REQUIREMENTS**

Name of Project

Project Number (if applicable)

The undersigned, having executed a contract for the construction of the above-identified project, acknowledges that:

- (a) The Labor Standards provisions are included in the aforesaid contract; and
- (b) Correction of any infractions of the aforesaid conditions, including infractions by any of his subcontracts and any lower tier subcontractors, is his responsibility.

The undersigned certifies that:

- (a) Neither he nor any firm, partnership, or association in which he has substantial interest is designated as an ineligible contractor by the Comptroller General of the United States pursuant to Section 5.6 (b) of the regulations of the Secretary of Labor, Part 5 (29 CFR, Part 5) or pursuant to Section 5(a) of the Davis-Bacon Act, as amended (40 U.S.C. 276a-2(a));
- (b) No part of the aforementioned contract has been or will be subcontracted to any subcontractor if such subcontractor or any firm, corporation, partnership, or association in which such subcontractor has a substantial interest in designated as an ineligible contractor pursuant to any of the aforementioned regulatory or statutory provisions; and
- (c) He agrees to obtain and forward to the aforementioned recipient within ten days after the execution of any subcontract, including those executed by his subcontractors and any lower tier subcontractors, a Subcontractor's Certification Concerning Labor Standards and Prevailing Wage Requirements executed by the subcontractors.

SUBCONTRACTOR'S CERTIFICATION

Legal Name and Business Address of Subcontractor:

The undersigned is:

- A Single Proprietorship
- A Corporation Organized in the State of _____
- A Partnership
- Other Organization - Describe _____

[Certification Continues on the Next Page]

SUBCONTRACTOR'S CERTIFICATION (continued)

The name, title and address of the owner, partner or officers of the undersigned are:

Name	Title	Address

The names and addresses of all other persons, both natural and corporate, having a substantial interest in the undersigned, and the nature of the interest are (If none, so state):

Name	Title	Address

The names, addresses and trade classifications or all other building construction contractors in which the undersigned has a substantial interest are (If none, so state):

Name	Title	Address

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

WARNING

U.S. Criminal Code, Section 1010, Title 18, U.S.C., provides in part: "Whoever... makes, passes, utters or publishes any statement, knowing the same to be false... shall be fined not more than \$5,000 or imprisoned not more than two years, or both."

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
CERTIFICATION OF BIDDER REGARDING THE BUILD AMERICA, BUY AMERICA ACT (BABA)**

The Grantee must comply with the requirements of the Build America, Buy America (BABA) Act, 41 USC 8301 note, and all applicable rules and notices, as may be amended, if applicable to the Grantee’s infrastructure project. Pursuant to HUD’s Notice, “Public Interest Phased Implementation Waiver for FY 2022 and 2023 of Build America, Buy America Provisions as Applied to Recipients of HUD Federal Financial Assistance” (88 FR 17001), any funds obligated by HUD on or after the applicable listed effective dates, are subject to BABA requirements, unless excepted by a waiver.

The Build America, Buy America Act (BABA) was signed into law by President Biden on November 15, 2021, as part of the Infrastructure Investment and Jobs Act (IIJA) as Sections 70901- 52 of Pub. L. No. 117-58. In addition to providing funding for roads, bridges, rails, and high-speed internet access, it created an incentive to increase domestic manufacturing across the country through the inclusion of BABA’s “Buy America Preference” (BAP). In general, the BAP requires that all iron, steel, manufactured products, and construction materials used in infrastructure projects funded with Federal financial assistance (FFA), as outlined in Section 70914(a) of BABA, must be produced in the United States. The intent of the BAP in BABA is to stimulate private-sector investments in domestic manufacturing, bolster critical supply chains, and support the creation of well-paying jobs for people in the United States. The preference is also intended to bolster American firms’ ability to compete and lead globally for years to come by requiring entities that receive Federal infrastructure funds to use American materials and products.

Name and Full Address of Bidder

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
CERTIFICATION OF SUBCONTRACTOR REGARDING THE BUILD AMERICA, BUY AMERICA ACT (BABA)**

The Grantee must comply with the requirements of the Build America, Buy America (BABA) Act, 41 USC 8301 note, and all applicable rules and notices, as may be amended, if applicable to the Grantee’s infrastructure project. Pursuant to HUD’s Notice, “Public Interest Phased Implementation Waiver for FY 2022 and 2023 of Build America, Buy America Provisions as Applied to Recipients of HUD Federal Financial Assistance” (88 FR 17001), any funds obligated by HUD on or after the applicable listed effective dates, are subject to BABA requirements, unless excepted by a waiver.

The Build America, Buy America Act (BABA) was signed into law by President Biden on November 15, 2021, as part of the Infrastructure Investment and Jobs Act (IIJA) as Sections 70901- 52 of Pub. L. No. 117-58. In addition to providing funding for roads, bridges, rails, and high-speed internet access, it created an incentive to increase domestic manufacturing across the country through the inclusion of BABA’s “Buy America Preference” (BAP). In general, the BAP requires that all iron, steel, manufactured products, and construction materials used in infrastructure projects funded with Federal financial assistance (FFA), as outlined in Section 70914(a) of BABA, must be produced in the United States. The intent of the BAP in BABA is to stimulate private-sector investments in domestic manufacturing, bolster critical supply chains, and support the creation of well-paying jobs for people in the United States. The preference is also intended to bolster American firms’ ability to compete and lead globally for years to come by requiring entities that receive Federal infrastructure funds to use American materials and products.

Name and Full Address of Subcontractor

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

OTHER APPLICABLE FEDERAL REGULATIONS

A. Termination for cause and for convenience by the grantee or subgrantee including the manner by which it will be affected and the basis for settlement. (All contracts in excess of \$10,000).

Pursuant to Federal Rule above (A), when federal funds are expended, Gwinnett County reserves the right to immediately terminate any agreement in excess of \$10,000 resulting from this procurement process in the event of a breach or default of the agreement by Vendor, in the event vendor fails to: (1) meet schedules, deadlines, and/or delivery dates within the time specified in the procurement solicitation, contract, and/or a purchase order; (2) make any payments owed; or (3) otherwise perform in accordance with the contract and/or the procurement solicitation. Gwinnett County also reserves the right to terminate the contract immediately, with written notice to vendor, for convenience, if Gwinnett County believes, in its sole discretion that it is in the best interest of Gwinnett County to do so. The vendor will be compensated for work performed and accepted and goods accepted by Gwinnett County as of the termination date if the contract is terminated for convenience of Gwinnett County. Any award under this procurement process is not exclusive and Gwinnett County reserves the right to purchase goods and services from other vendors when it is in the best interest of Gwinnett County.

Initial _____

B. Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of "funding agreement" under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

Pursuant to Federal Rule above (B), when federal funds are expended by Gwinnett County, the vendor certifies that during the term of an award for all contracts by Gwinnett County resulting from this procurement process, the vendor agrees to comply with all applicable requirements as referenced in Federal Rule above (B).

Initial _____

C. Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended—Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251- 1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

Pursuant to Federal Rule above (C), when federal funds are expended by Gwinnett County, the vendor certifies that during the term of an award for all contracts by Gwinnett County resulting from this procurement process, the vendor agrees to comply with all applicable requirements as referenced in Federal Rule above (C).

Initial _____

D. Examinations of Plans, Specifications, Special Provisions, and Site of the Work

The Bidder is expected to examine carefully the site of the proposed work, the Proposal, Plans, Specifications, Supplemental Specifications, Special Provisions, and Contract forms before submitting a Proposal. The submission of a Proposal shall be considered prima facie evidence that the Bidder has made such examination and is satisfied as to the conditions to be encountered in performing The Work and as to the requirements of the Plans, Specifications, Supplemental Specifications, Special Provisions, and Contract.

It is the obligation of the Bidders to make their own interpretation of all subsurface data that may be available as to the nature and extent of the materials to be excavated, graded, or driven through. Such information, if available and furnished to the Bidders by the Department, does not in any way guarantee the amount or nature of the material which may be encountered.

Pursuant to Standard Specifications Construction of Transportation Systems Rule above (D), when federal funds are expended by Gwinnett County, the vendor certifies that during the term of an award for all contracts by Gwinnett County resulting from this procurement process, the vendor agrees to comply with all applicable requirements as referenced in Federal Rule above (D).

Initial _____

E. Certification of compliance with EPA Regulations applicable to grants, subgrants, cooperative agreements, and contracts in excess of \$100,000 of federal funds.

When federal funds are expended for any contract resulting from this procurement process in excess of \$100,000, the vendor certifies that the vendor is in compliance with all applicable standards, orders, regulations, and/or requirements issued pursuant to the Clean Air Act of 1970, as amended (42 U.S.C. 1857(h)), Section 508 of the Clean Water Act, as amended (33 U.S.C. 1368), Executive Order 117389 and Environmental Protection Agency Regulation, 40 CFR Part 15.

Initial _____

F. Certification of Non-Collusion Statement

Vendor certifies under penalty of perjury that its response to this procurement solicitation is in all respects bona fide, fair, and made without collusion or fraud with any person, joint venture, partnership, corporation or other business or legal entity.

Initial _____

Name of Company

Name and Title of Authorized Certifying Official

Signature of Authorized Certifying Official

Signature Date

APPENDIX 1

INSTRUCTIONS CONCERNING LOBBYING AND DRUG-FREE WORKPLACE REQUIREMENTS

1. Lobbying Certification - Paragraph n

This certification is a material representation of the fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

2. Drug-Free Workplace Certification - Paragraph o

A. By signing and/or submitting this application or grant agreement, the contractor is providing the certification set out in paragraph (o).

B. The certification set out in paragraph (o) is a material representation of fact upon which reliance is placed when the agency awards the grant. If it is later determined that the grantee knowingly rendered a false certification, or otherwise violates the requirements of the Drug-Free Workplace Act, HUD, in addition to any other remedies available to the Federal Government, may take action authorized under the Drug-Free Workplace Act.

C. For contractors other than individuals, Alternate I applies. (This is the information to which entitlement grantees certify).

D. For contractors who are individuals, Alternate II applies. (Not applicable to CDBG entitlement grantees).

E. Workplaces under grants, for grantees other than individuals, need not be identified on the certification. If know, they may be identified in the grant application. If the grantee does not identify the workplaces at the time of application, or upon award, if there is no application, the grantee must keep the identity of the workplace(s) on file in its office and make the information available for Federal inspection. Failure to identify all known workplaces constitutes a violation of the grantee's drug-free workplace requirements.

APPENDIX 2

FEDERAL LABOR STANDARDS PROVISIONS U.S. Department of Housing and Urban Development Office of Labor Relations

Applicability

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal Assistance.

A. 1. (i) Minimum Wages. All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics subject to the provisions of 29 CFR 5.5 (a)(1) (iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period.

Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5 (a) (4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5 (a) (1) (ii) and the Davis-Bacon poster (WH-1321 shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible, place where it can be easily seen by the workers.

(ii) (a) Any class of laborers or mechanics which is not listed in the wage determination, and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(b) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification within 30 days of receipt and so advise HUD or its designee or within the 30-day period that additional time is necessary. (Approved by the Officer of Management and Budget under OMB control number 1215-0140).

(c) In the event the contractor, the laborers or mechanics is to be employed in the classification or their representative, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator for the determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Officer of Management and Budget under OMB control number 1215-0140).

(d) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii)(b) or (c) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborers or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside, in a separate account, assets for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140).

2. Withholding. HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the contractor, disburse such amounts withheld for and on account of the contractor or subcontractor to the respective employees to whom then are due. The Comptroller General shall make such disbursements in the case of direct Davis-Bacon Act contracts.

3. (i) Payrolls and basic records. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contribution or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section I(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made, and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section I(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (Approved by the Office of Management and Budget under OMB Control number 1215-0140 and 1215-0017.)

(ii)(a) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i). This information may be submitted in any form desired. Option Form WH-347 is available for this purpose and may be purchased for the Superintendent of Documents (Federal Stock number 029-005-00014-1), U.S. Government Printing Office, Washington, D.C. 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the Office of Management and Budget under OMB Control Number 1215-0149).

(b) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be maintained under 29 CFR 5.5 (a)(3)(i) and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentices, and trainee) employed on the contract during the payroll period has been paid the fully weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(c) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for the submission of the "Statement of Compliance" required by subparagraph A.3.(ii)(b).

(d) The falsification of any of the above certification may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under subparagraph A.3. (i) available for inspection, copying, or transcription by authorized representatives of HUD or its designee or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and Trainees.

(i) **Apprentices.** Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to an individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a States Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ration of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ration permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event of the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) **Trainees.** Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) **Equal employment opportunity.** The utilization of apprentices, trainees, and journeymen under 29 CFR Part 5 shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor will insert in any subcontracts the clauses contained in subparagraphs 1 through 11 of this paragraph A and such other clauses as HUD or its designee may be appropriate instructions require, and a copy of the applicable prevailing wage decision, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this paragraph.

7. Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act Requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5,6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and HUD or its designee, the U.S. Department of Labor, or the employees or their representatives.

10. (i) Certification of Eligibility. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3 (a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3 (a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001. Additionally, U.S. Criminal Code, Section 1010 Title 18, U.S.C., "Federal Housing Administration transaction", provides in part: "whoever, for the purpose of...influencing in any way the action of such Administration...makes, utters or publishes any statement knowing the same to be false...shall be fined not more than \$5,000 or imprisoned not more than two years, or both."

11. Complaints, Proceedings, or Testimony by Employees. No laborer or mechanic to whom the wage, salary, or other labor standards provisions of this Contract are applicable shall be discharged or in any other manner discriminated against by the Contractor or any subcontractor because such employee has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable under this Contract to his employer.

B. Contract Work Hours and Safety Standards Act. The provisions of this paragraph B are applicable only where the amount of the prime contract exceeds \$100,000. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any work week in which he or she is employed on such work to work in excess of 40 hours in such work week unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(2) Violations: liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the contractor, and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard work week of 40 hours without payment of the overtime wages required by the clause set forth in subparagraph (1) of this paragraph.

(3) Withholding for unpaid wages and liquidated damages. HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on the account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

C. Health and Safety. The provisions of this paragraph C are applicable only where the amount of prime contract exceeds \$100,000.

(1) No laborer or mechanic shall be required to work in surroundings or under work conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.

(2) The Contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1926 and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act, 40 USC 3701 et seq.

(3) The Contractor shall include the provisions of this paragraph in every subcontract so that such provisions will be binding on each subcontractor. The Contractor shall take such action with respect to any subcontracts as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.

APPENDIX 3

Applicable Davis Bacon Wage Rate Decision

"General Decision Number: GA20240308 11/15/2024

Superseded General Decision Number: GA20230308

State: Georgia

Construction Type: Building

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories)

County: Gwinnett County in Georgia.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$12.90 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2024.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker

protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/05/2024
1	03/22/2024
2	09/20/2024
3	11/15/2024

* ASBE0048-003 04/01/2024

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR.....	\$ 32.25	18.51

 CARP1263-001 10/01/2023

	Rates	Fringes
MILLWRIGHT.....	\$ 31.58	17.05

 ELEC0613-004 09/02/2023

	Rates	Fringes
ELECTRICIAN (Excludes Low Voltage Wiring).....	\$ 34.50	32%

 ELEC0613-005 09/02/2023

	Rates	Fringes
ELECTRICIAN (Low Voltage Wiring).....	\$ 34.50	32%

 ENGI0926-004 07/01/2024

	Rates	Fringes
POWER EQUIPMENT OPERATOR: Backhoe/Excavator/Trackhoe..	\$ 28.00	12.03

 ENGI0926-005 07/01/2022

	Rates	Fringes
POWER EQUIPMENT OPERATOR: Crane.....	\$ 34.66	13.83

 ENGI0926-006 08/01/2024

	Rates	Fringes
POWER EQUIPMENT OPERATOR: Forklift.....	\$ 31.65	15.03

 IRON0387-002 01/01/2024

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 30.24	14.81

IRONWORKER, STRUCTURAL.....\$ 30.24 14.81

PLUM0072-003 08/01/2024

Rates Fringes

PIPEFITTER

(Excluding HVAC Pipe and Unit Installation).....\$ 39.13 13.31

(HVAC Pipe Installation Only).....\$ 31.68 13.31

(HVAC Unit Installation Only).....\$ 39.13 13.31

PLUMBER.....\$ 39.13 13.31

SHEE0085-022 07/01/2024

Rates Fringes

SHEET METAL WORKER (Excludes HVAC Duct Installation).....\$ 34.58 16.49

SHEET METAL WORKER (HVAC Duct Installation Only).....\$ 35.21 17.72

* UAVG-GA-0001 01/01/2024

Rates Fringes

IRONWORKER, REINFORCING.....\$ 30.08 17.12

* SUGA2017-023 04/15/2021

Rates Fringes

CARPENTER (Form Work Only).....\$ 18.02 0.00

CARPENTER, Excludes Form Work....\$ 21.06 3.54

CEMENT MASON/CONCRETE FINISHER...\$ 10.00 ** 0.00

GLAZIER.....\$ 21.77 6.36

INSTALLER - GUARDRAIL.....\$ 20.00 0.00

LABORER: Asphalt, Includes Raker, Shoveler, Spreader and Distributor.....\$ 15.69 ** 0.00

LABORER: Common or General.....\$ 15.00 ** 0.00

LABORER: Pipelayer.....\$ 12.55 ** 1.90

OPERATOR: Bobcat/Skid Steer/Skid Loader.....\$ 20.24 0.00

OPERATOR: Bulldozer.....\$ 15.23 ** 0.00

OPERATOR: Grader/Blade.....\$ 16.80 ** 0.00

OPERATOR: Loader.....\$ 21.32 0.00

OPERATOR: Roller.....\$ 16.82 ** 1.19

PAINTER (Brush and Roller).....	\$ 16.14 **	0.00
PAINTER: Spray.....	\$ 16.29 **	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.20) or 13658 (\$12.90). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of

the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was adopted under 29 C.F.R. 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 01/03/2024 reflects the date on which the classifications and

rates under the "SA" identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

APPENDIX 4

BUILD AMERICA, BUY AMERICA ACT (BABA) U.S. Department of Housing and Urban Development Office of Community Planning and Development

I. Overview of Build America, Buy America Act

The Build America, Buy America Act (BABA)

The Build America, Buy America Act (BABA) was signed into law by President Biden on November 15, 2021, as part of the Infrastructure Investment and Jobs Act (IIJA) as Sections 70901- 52 of Pub. L. No. 117-58. In addition to providing funding for roads, bridges, rails, and high-speed internet access, it created an incentive to increase domestic manufacturing across the country through the inclusion of BABA's "Buy America Preference" (BAP). In general, the BAP requires that all iron, steel, manufactured products, and construction materials used in infrastructure projects funded with Federal financial assistance (FFA), as outlined in Section 70914(a) of BABA, must be produced in the United States. The intent of the BAP in BABA is to stimulate private-sector investments in domestic manufacturing, bolster critical supply chains, and support the creation of well-paying jobs for people in the United States. The preference is also intended to bolster American firms' ability to compete and lead globally for years to come by requiring entities that receive Federal infrastructure funds to use American materials and products. The BABA preference for American materials and products applies to all spending on infrastructure projects by Federal agencies, including HUD. In BABA and for purposes of this Notice, the Federal infrastructure spending with a BAP is referred to as "Federal financial assistance" or "FFA." Under Section 70912(7), FFA for infrastructure "projects" includes the "construction, alteration, maintenance, or repair of infrastructure in the United States". Under Section 70914(a), the use of American iron and steel, construction materials, and manufactured products applies to funding from CPD programs for infrastructure projects. However, the BAP does not apply to "pre and post disaster or emergency response expenditures" under Section 70912(4)(B). A list of CPD disaster or emergency funding meeting these criteria can be found in Section III. Effective May 14, 2022, the BAP applies to infrastructure spending unless an agency issues a waiver in three limited situations: 1) when applying the domestic content procurement preference 3 would be inconsistent with the public interest, 2) when types of iron, steel, manufactured products or construction materials are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality, or 3) where the inclusion of those products and materials will increase the cost of the overall project by more than 25 percent. Before issuing a waiver, under Section 70914(c), the head of a Federal agency, including HUD, must make publicly available a detailed written explanation for the proposed determination to issue the waiver and provide a period of not less than 15 days for public comment on the proposed waiver. Additional details on waivers can be found in Section IV.

II. Definitions

Key terms that have relevance to the interpretation and implementation of the BAP for CPD programs are defined in the BABA statute and may be found in 2 CFR part 184 and OMB guidance.

- A. Build America, Buy America Act is defined in 2 CFR § 184.3 and means division G, title IX, subtitle A, parts I -II, sections 70901 through 70927 of the Infrastructure Investment and Jobs Act (Pub. L. No. 117-58)
- B. Buy America Preference is defined in 2 CFR § 184.3 and means the "domestic content procurement preference" set forth in section 70914 of BABA, which requires the head of each Federal agency to ensure that none of the funds made available for a Federal award for an infrastructure project may be obligated unless all of the iron, steel, manufactured products, and construction materials incorporated into the project are produced in the United States.
- C. Categorization of Articles. The term "categorization of articles" refers to the requirement that articles, materials, and supplies should only be classified into one of the following categories:
 - i. Iron or steel products;
 - ii. Manufactured products;
 - iii. Construction materials; or
 - iv. Section 70917(c) materials.

An article, material, or supply should not be classified into more than one category and must be made based on the status of the article, material, or supply upon arrival to the work site for use in an infrastructure project. Articles, materials, or supplies must meet the Buy America Preference for only the

single category in which they are classified and, in some cases, may not fall under any of the categories listed above.

- D. Component is defined in 2 CFR § 184.3 and means an article, material, or supply, whether manufactured or unmanufactured, incorporated directly into: a manufactured product; or, where applicable, an iron or steel product.
- E. Construction Materials is defined in 2 CFR § 184.3 and means articles, materials, or 5 supplies that consist of only one of the items listed in paragraph (1) of this definition, except as provided in paragraph (2) of this definition. To the extent one of the items listed in paragraph (1) contains as inputs other items listed in paragraph (1), it is nonetheless a construction material.
 - (1) The listed items are:
 - i. Non-ferrous metals;
 - ii. Plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables);
 - iii. Glass (including optic glass);
 - iv. Fiber optic cable (including drop cable);
 - v. Optical fiber;
 - vi. Lumber;
 - vii. Engineered wood, and
 - viii. Drywall.
 - (2) Minor additions of articles, materials, supplies or binding agents to a construction material do not change the categorization of the construction material.
- F. Covered Materials includes the following when used in connection with an Infrastructure Project:
 - (A) all iron and steel;
 - (B) all Manufactured Products; and
 - (C) all Construction Materials.
- G. Covered CPD Programs. The term “covered CPD programs” means any Federal financial assistance administered by CPD that is used for infrastructure purposes, excepting expenditures related to pre and post disaster or emergency response.
- H. Grantee. The term “grantee,” as defined at 24 CFR 5.100, means the person or legal entity to which a grant is awarded and that is accountable for the use of the funds provided.
- I. Federal Financial Assistance (FFA) has the meaning given to the term in 2 CFR 200.1 (or successor regulations) and includes all expenditures by a Federal agency to a Non-Federal Entity for an Infrastructure Project, except that it does not include:
 - (A) expenditures for assistance authorized under section 402, 403, 404, 406, 408, or 502 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. 5170a, 5170b, 5170c, 5172, 5174, or 5192) relating to a major disaster or emergency declared by the President under section 401 or 501, respectively, of such Act (42 U.S.C. 5170, 5191); or
 - (B) pre and post disaster or emergency response expenditures.
- J. Infrastructure is described in 2 CFR 184.4(c) and encompasses public infrastructure projects in the United States, which includes, at a minimum: the structures, facilities, and equipment for roads, highways, and bridges; public transportation; dams, ports, harbors, and other 6 maritime facilities; intercity passenger and freight railroads; freight and intermodal facilities; airports; water systems, including drinking water and wastewater systems; electrical transmission facilities and systems; utilities; broadband infrastructure; and buildings and real property; and structures, facilities, and equipment that generate, transport, and distribute energy including electric vehicle (EV) charging. See also 2 CFR 184.4(d).
- K. Infrastructure Project. The term “infrastructure project” is defined in 2 CFR 184.3 and means any activity related to the construction, alteration, maintenance, or repair of infrastructure in the United States regardless of whether infrastructure is the primary purpose of the project.

- L. Iron and Steel Products. The term “iron and steel products” is defined in 2 CFR 184.3 and means an article, material, or supply that consists wholly or predominantly of iron or steel, or a combination of both.
- M. Predominantly of iron or steel or a combination of both is defined in 2 CFR 184.3 and means that the cost of the iron and steel content exceeds 50 percent of the total cost of all its components. The cost of iron and steel is the cost of the iron or steel mill products (such as bar, billet, slab, wire, plate, or sheet), castings, or forgings utilized in the manufacture of the product and a good faith estimate of the cost of iron or steel components.
- N. Made in America Office. The term “Made in America Office” or “MIAO” means the office at the Office of Management and Budget, established by section 70923 of BABA, that is charged with, among other things, enforcing compliance with the BAP and establishing the procedures to review waiver requests proposed by a Federal awarding agency.
- O. Manufactured Products is defined in 2 CFR 184.3 and means:
- (1) Articles, materials, or supplies that have been:
 - (i) Processed into a specific form and shape; or
 - (ii) Combined with other articles, materials, or supplies to create a product with different properties than the individual articles, materials, or supplies.
 - (2) If an item is classified as an iron or steel product, a construction material, or a section 70917(c) material under 2 CFR 184.4(e) and the definitions set forth in this section, then it is not a manufactured product. However, an article, material, or supply classified as a manufactured product under 2 CFR 184.4(e) and paragraph (1) of this definition may include components that are construction materials, iron or steel products, or section 70917(c) materials.
- P. Manufacturer is defined in 2 CFR 184.3 and means the entity that performs the final manufacturing process that produces a manufactured product.
- Q. Non-Federal Entity means a State, local government, Indian Tribe, Institution of Higher Education (IHE), or nonprofit organization, as provided in 2 CFR 200.1. Public Housing Agencies are Non-Federal Entities. 7
- R. Not Listed Construction Materials. The term “not listed construction materials” refers to the category of construction materials that are subject to the BAP, but not included in HUD’s specifically listed construction materials, as defined in the Phased Implementation Waiver.
- This includes:
- i. plastic and polymer-based products other than composite building materials or plastic and polymer-based pipe or tube;
 - ii. glass (including optic glass); and
 - iii. drywall.
- S. Obligate. The term “obligate,” for purposes of HUD’s phased implementation of BABA, means the date that HUD executed the legal instrument creating the relationship between HUD and the grantee for an award of Federal financial assistance. The milestone that establishes an obligation date depends on each program but for many CPD programs, such as CDBG, the obligation date occurs upon HUD’s execution of the grant agreement.
- T. OMB Guidance. The term “OMB guidance” refers to 2 CFR Part 184, the “Implementation Guidance on Application of Buy America Preference in Federal Financial Assistance Programs for Infrastructure” (M-24-02), issued October 25, 2023, by the Office of Management and Budget, and any subsequent guidance to rescind or replace M-24-02. This guidance is applicable to the heads of all Federal agencies for the implementation of BABA’s Buy America Preference.
- U. Pre and Post Disaster or Emergency Response Expenditures. The term “pre and post disaster or emergency response expenditures” means Federal funding authorized under section 402, 403, 404, 406, 408, or 502 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act) relating to a major disaster or emergency declared by the President under section 401 or 501, respectively. The BAP does not apply to pre- and post-disaster or emergency response expenditures authorized by statutes other than the Stafford Act and made in anticipation of or in response to an event that qualifies as an emergency or major disaster within the meaning of the Stafford Act.

- V. Produced in the United States is defined in 2 CFR 184.3 and means:
 - a. In the case of iron or steel products, all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
 - b. In the case of manufactured products:
 - a. The product was manufactured in the United States; and
 - b. The cost of components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard that meets or exceeds this standard has been established under applicable law or regulation for determining the minimum amount of domestic content of the manufactured product. See 2 CFR 184.2(a). The costs of components of a manufactured product are determined according to 8 to 2 CFR 184.5.
 - c. In the case of construction materials, all manufacturing processes for the construction material occurred in the United States. See 2 CFR 184.6 for more information on the meaning of “all manufacturing processes” for specific construction materials.

- W. Project. The term “project” means the construction, alteration, maintenance, or repair of infrastructure in the United States. (Section 70912(7) of BABA).

- X. Section 70917(c) Materials. The term “section 70917(c) materials” is defined in 2 CFR 184.3 and means cement and cementitious materials; aggregates such as stone, sand, or gravel, or aggregate binding agents or additives. These materials are not considered “construction materials” for the purpose of BABA implementation.

- Y. Specifically listed construction materials. The term “specifically listed construction materials” for HUD programs includes:
 - a. non-ferrous metals;
 - b. lumber;
 - c. composite building materials; and
 - d. plastic and polymer-based pipe and tube.

III. Buy America Preference Waivers Currently in Effect for HUD Programs

Under Section 70914(b), HUD is able to issue, after consultation with OMB’s MIAO, general waivers, and project-specific waivers to the BAP if it is determined that a waiver falls into one of the following three categories: 1) when applying the domestic content procurement preference would be inconsistent with the public interest, 2) when types of iron, steel, manufactured product or construction materials are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality, or 3) where the inclusion of those products and materials will increase the cost of the overall project by more than 25 percent. In order for HUD to consider either a general or project specific waiver request and be able to review it with OMB, the waiver must include a detailed written explanation and allow for the public to comment for at least 15 days, as required under Section 70914(c).

HUD General Waivers Applicable to Covered CPD Programs

Four general applicability waivers are currently in effect for HUD programs and apply to all Covered CPD Programs. Each waiver is outlined below.

General Waiver Type	Purpose	Effective Dates
Public Interest Phased Implementation	HUD issued a public interest waiver, " Public Interest Phased Implementation Waiver for FY 2022 and 2023 of Build America, Buy America Provisions as Applied to Recipients of HUD Federal Financial Assistance " to allow for orderly implementation of the BAP across HUD programs. The Phased Implementation Waiver establishes a schedule for the phased implementation of the BAP across CPD programs and infrastructure materials.	The public interest waiver was issued in March 2023 and established a phased implementation schedule for the application of the BAP to HUD programs through FY2025. The BAP has been in effect since November 15, 2022, for the use of iron and steel for infrastructure projects funded with newly obligated FFA through the CDBG program.
Exigent Circumstances	HUD issued a public interest waiver for exigent circumstances, " Public Interest Waiver of Build America, Buy America Provisions for Exigent Circumstances as Applied to Certain Recipients of HUD Federal Financial Assistance ". This waiver applies when there is an urgent need by a CPD grantee to immediately complete an infrastructure project because of a threat to life, safety, or property of residents and the community.	The public interest waiver for exigent circumstances is effective from November 23, 2022, for a period of five years ending on November 23, 2027, or such shorter time as HUD may announce via Notice.
De Minimis, Small Grants, and Minor Components	HUD issued a public interest de minimis, small grants, and minor components waiver titled " Public Interest De Minimis and Small Grants Waiver of Build America, Buy America Provisions as Applied to Certain Recipients of HUD Federal Financial Assistance ". This waives the BAP for all infrastructure projects whose total cost (from all funding sources) is equal to or less than the simplified acquisition threshold at 2 CFR 200.1 which is currently \$250,000. This Notice also waives the application of the BAP for a de minimis portion of an infrastructure project, meaning a cumulative total of no more than five percent of the total cost of the iron, steel, manufactured products, and construction materials used in and incorporated into the infrastructure project, up to a maximum of \$1 million.	The public interest <i>de minimis</i> , small grants, and minor components waiver is effective from November 23, 2022, for a period of five years ending on November 23, 2027, or such shorter time as HUD may announce via Notice.
Tribal Recipients Waiver	HUD issued a public interest waiver, " Extension of Public Interest, General Applicability Waiver of Build America, Buy America Provisions as Applied to Tribal Recipients of HUD Federal Financial Assistance: Final Notice " for the BAP as it applies to Tribal recipients. HUD will consult with Tribally Designated Housing Entities and other Tribal Entities on how to apply the BAP.	The waiver of the BAP as it applies to Tribal recipients is effective from May 23, 2023, until May 23, 2024.

HUD Project-Specific Waivers

Additionally, a CPD grantee may request a project-specific waiver from the BAP for covered FFA on a limited, case-by-case basis. HUD may grant a project specific waiver after consultation and review with the OMB's MIAO. As with the general waivers, under Section 70914(b) HUD may issue a project-specific waiver to the BAP if it is determined that a waiver falls into one of the following three categories: 1) when applying the domestic content procurement preference would be inconsistent with the public interest, 2) when types of iron, steel, manufactured product or construction materials are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality, or 3) where the inclusion of those products and materials will increase the cost of the overall project by more than 25 percent. A waiver for a specific project may vary depending upon the circumstances of the project, and specific items, products, or materials in question.

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SECTION 06 4000
CUSTOM ARCHITECTURAL WOODWORK
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PART 1 - GENERAL**1.01 SUMMARY**

- A. Laminate clad countertops and cabinets, solid surface countertops and associated components, window sills, trim, similar work, and associated hardware.
- B. Contractor's Option for fabricated Millwork in lieu of Laminate Casework: The General Contractor may, at its option, furnish and install Custom Architectural Woodwork in lieu of the specified Casework units. Where the General Contractor exercises this option, it shall demonstrate that the Custom Architectural Woodwork (Millwork) is in compliance with the requirements of this Section and is materially similar to the corresponding Casework item specified in Section 12 3219 - Laminate Casework.

1.02 SECTION INCLUDES

- A. Laminate clad countertops.
- B. Laminate covered cabinets (Contractor's Option to Section 12 3219 - Laminate Casework).
- C. Wood cabinets, desks, and paneling.
- D. Solid surface countertops, backsplashes, trim, wall caps & window sills, and vertical panels where indicated.
- E. Manufactured quartz solid surface countertop, backsplashes and trim, where indicated; and vertical panels, where indicated.
- F. Closet and utility shelving (paint on site, under Section 09 9100 - Painting).
- G. Wood frames, sidelights, panels, base, window sills, and miscellaneous trim (paint on site, under Section 09 9100), stained (transparent finish) or painted (opaque finish) where indicated.
- H. Hardware for architectural woodwork.
- I. Related work and trim for above items.
- J. Extent of each type of architectural woodwork is indicated on drawings and in schedules.
- K. Architectural woodwork and components for opaque finish are intended to be finish painted on-site, under Section 09 9100 - Painting.
- L. Architectural woodwork and components for natural, stained and/or transparent finish are intended to be painted in woodwork fabricator's shop under controlled conditions, under the work of this Section.

1.03 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.
- B. Related work specified elsewhere includes:
 - 1. Section 06 1000 - Rough Carpentry.
 - 2. Section 06 2000 - Finish Carpentry.
 - 3. Section 07 9005 - Joint Sealers.
 - 4. Section 08 1416 - Flush Wood Doors.
 - 5. Section 09 6623 - Resinous Matrix Terrazzo Flooring.
 - 6. Section 09 9100 - Painting.
 - 7. Section 12 3219 - Laminate Casework - Basis of Design where identified.
 - 8. Division 22 Plumbing Sections: Countertops for sinks.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for Submittal procedures.

- B. Shop Drawings: Submit shop drawings showing location of each item, dimensioned plans and elevations, large scale details, attachment devices, blocking requirements and other components.
 - 1. Manufacturer's current and complete product data, for manufactured units of work, including color selection data, samples, anchorage systems, installation method, transition & accessory types.
 - 2. Keying schedule.
- C. Samples: Submit the following samples:
 - 1. Lumber and panel products with or for transparent finish; 6-inches x 3/4-inch x 18-inches, for each species and cut, finished on 1-side and 1-edge. Also submit two 3 by 3 inch samples with finish on 1-side.
 - 2. Cabinet Hardware: One unit of each type and finish, which will be returned for use on the project, upon request by the Contractor.
 - 3. Quartz Solid Surface: Manufacturer's standard samples, approximately 6-inches x 6-inches with finish as required for this project, and representative color range anticipated.
 - 4. Solid Surfacing Products: Manufacturer's standard samples, approximately 4-inches x 4-inches, with finish as required for this project, and representative color range anticipated.
 - 5. Laminate Products: Manufacturer's standard samples, approximately 4-inches x 4-inches, with finish as required for this project, and representative color range anticipated.

1.05 QUALITY ASSURANCE

- A. AWS: Comply with applicable requirements of "Architectural Woodwork Standards" published by the Architectural Woodwork Standards, 2nd Edition, October, 2014.
- B. Fabricator Qualifications: Fabricators shall be experienced firms specializing in the types of architectural woodwork required for this project for at least 5-verifiable years and on at least 10-verifiable projects of similar size, scope, complexity, and quality as this project.
 - 1. Quartz Fabricator: 5-years and 10-verifiable projects.
 - 2. Solid Surfacing Fabricator: 5-years and 10-verifiable projects.
- C. Installer Qualifications: Arrange for installation of architectural woodwork by the fabricator, or by a firm under the control and direction of the fabricator, which can demonstrate at least 5-verifiable years successful experience in installing architectural woodwork items on at least 5-verifiable projects, similar in type and quality to those required for this project.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Protect woodwork during transit, delivery, storage and handling to prevent damage, soiling and deterioration.
- B. Do not deliver woodwork, until painting, wet work, grinding and similar operations which could damage, soil or deteriorate woodwork have been completed in installation areas. If, due to unforeseen circumstances, woodwork must be stored in other than installation areas, store only in areas meeting requirements specified for installation areas.

1.07 PROJECT CONDITIONS

- A. Conditioning: Woodwork Manufacturer and Installer shall advise Contractor of temperature and humidity requirements for woodwork installation and storage areas. Do not install woodwork until required temperature and relative humidity have been stabilized and will be maintained in installation areas.
- B. Maintain temperature and humidity in installation area as required to maintain moisture content of installed woodwork within a 1.0-percent tolerance of optimum moisture content, from date of installation through remainder of construction period. Require Woodwork Manufacturer to establish optimum moisture content and required temperature and humidity conditions.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Laminate Clad and Wood Cabinet Manufacturers: Subject to compliance with requirements, provide premium grade, custom made cabinets and woodwork from a millwork shop complying with requirements of "Quality Assurance" article above.

- B. Plastic Laminate Manufacturer:
 - 1. See Finish Legend for Manufacturers and colors.
- C. Quartz-Surfacing Material: Subject to compliance with requirements, provide quartz countertop material of one the following. Color and finish indicated in drawings:
 - 1. Cambria: www.cambriaUSA.com [Basis of Design]
 - 2. CaesarStone: www.caesarstoneUS.com.
 - 3. Hanstone: www.hanwhasurfaces.com.
 - 4. Silestone: www.silestoneusa.com.
 - 5. Substitutions: See Section 01 6000 - Product Requirements.
- D. Solid-Surfacing Material/Manufacturer: Homogeneous solid sheets of cast, filled acrylic resin complying with material and performance requirements in ANSI Z124.3, for Type 6.
 - 1. See Finish Legend for manufacturers and colors.
 - 2. Substitutions: See Section 01 6000 - Product Requirements.

2.02 FABRICATION, GENERAL

- A. Wood Moisture Content: Comply with requirements of referenced quality standard for moisture content of lumber at time of fabrication and for relative humidity conditions in the installation areas.
- B. Fabricate woodwork to dimensions, profiles, and details indicated with dowel, dado, glue and screw construction, with openings and mortises precut, where possible, to receive hardware and other items and work.
 - 1. Ease edges to a 1/16-inch radius, for corners of cabinets and edges of solid wood (lumber) members less than 1-inch in nominal thickness, 1/8-inch radius for edges of rails and similar members over 1-inch in nominal thickness.
- C. Complete fabrication, assembly, hardware application, and other work before shipment to project site to maximum extent possible. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
- D. Pre-Cut Openings: Fabricate architectural woodwork with pre-cut openings, where possible, to receive hardware, appliances, plumbing fixtures, electrical work and similar items. Locate openings accurately and use templates or roughing-in diagrams for proper size and shape. Smooth edges of cutoffs and, where located in countertops and similar exposures seal edges of cutouts with a water-resistant coating.
- E. Measurements: Before proceeding with fabrication of woodwork required to be fitted to other construction, obtain field measurements and verify dimensions and shop drawing details as required for accurate fit. A tight fit of less than 1/8-inch is expected.
- F. Products in this Section shall be constructed only of materials that are formaldehyde-free.

2.03 FIRE-RETARDANT MATERIALS

- A. Where fire-retardant treated lumber is indicated, provide materials which are pressure impregnated with fire-retardant chemicals and comply with the following requirements:
 - 1. As required to comply with referenced standards and finish classifications necessary as per the Standard Building Code, NFPA 101 - Life Safety Code, authorities having jurisdiction, and acceptable in all respects for indoor use and finish requirements.
 - 2. Fire-Retardant Chemicals: Use chemicals of type and for applications indicated which do not bleed-through or otherwise adversely affect finishes. Do not use colorants in solution to distinguish treated lumber from untreated lumber.
- B. Fire Performance Characteristics: Provide materials which are identical to those tested per ASTM methods and time periods indicated, are marked and listed for fire performance characteristics by Underwriters Laboratories, Inc., or other testing and inspecting agency acceptable to authorities having jurisdiction, and comply with the following requirements:
 - 1. Mill lumber after treatment, within limits set for wood removal which does not affect listed fire performance characteristics, using a woodworking plant certified by testing and inspecting agency.

- C. Marking: Identify treated lumber with separable paper classification marking of inspecting and testing agency, unless otherwise indicated.
- D. Surface Burning Characteristics: Not exceeding values required by latest edition of the "Standard Building Code" and "NFPA 101" (with amendments), tested per ASTM E 84 for standard time period.
 - 1. Flame Spread: Per Code.
 - 2. Smoke Developed: Per Code.
- E. Kiln-dry woodwork after treatment to levels required for non-fire-retardant treated woodwork materials. Maintain moisture content required by kiln drying, before and after treatment.
 - 1. Discard treated lumber which does not comply with requirements of referenced woodworking standard. Do not use twisted, warped, bowed, discolored, or otherwise damaged or defective lumber.

2.04 STANDING AND RUNNING TRIM

- A. Quality Standard: Comply with AWS Section 6 - Interior Millwork.
- B. Rout or groove backs of flat trim members, kerf backs of other wide flat members, except for members with ends exposed in finished work.
- C. Assemble Casings in plant except where limitations of access to place of installation require field assembly.
- D. Interior Trim for Transparent Finish (typical finish unless specifically indicated otherwise): Comply with the following requirements:
 - 1. Grade: **Custom, Grade II.**
 - 2. Lumber Species: See Finish Legend.
 - 3. Cut: See Finish Legend.
 - 4. Locations: Provide stained transparent finish within rooms which have new woodwork with transparent finish, at indicated areas. Refer to Elevations & Finish Schedule.
- E. **Deleted.**

2.05 ARCHITECTURAL COUNTER TOPS

- A. Quality Standard: Comply with AWS, Section 11-Countertops.
- B. Type of Top - Laminate Clad:
 - 1. Grade: **Custom, Grade II.**
 - 2. Edge Treatment: Refer to Drawings.
 - 3. Core: Minimum 47-lb. density particle board, except at least 3/4-inch A-B plywood with exterior glue (approved for interior use), at tops with sinks and/or plumbing fixtures.
 - 4. Minimum Thickness: 1-1/4-inches at tops and 3/4-inch at splashes, unless indicated otherwise on the Drawings.
- C. Types of Top (and/or panel): Solid Surfacing.
 - 1. Colors, Patterns and Finishes: As indicated, or if not indicated, as selected from any of manufacturer's standard finishes and colors.
 - 2. Edge Treatment: As indicated on the Drawings.
 - 3. Thickness - Tops and Substrates:
 - a. Tops (and any flat vertical panels): 1/2-inch, 3/4-inch substrate & with 1-1/2-inch built-up edges unless indicated otherwise on the Drawings.
 - b. Backsplash & Sidesplash: 1/2-inch.
 - c. Edge Treatment: As indicated on the Drawings, or if not indicated, ease all exposed edges to 1/16" radius, and seam width of less than 1/8".
 - 1) DuPont-approved adhesive to create color-matched seam.
 - d. Substrates: Refer to the Drawings for thickness of plywood below solid surface tops, splashes, etc., or if not indicated, at least 3/4-inch thick at horizontal and sloped surfaces (and at least 1/2-inch thick at any vertical panels).
 - 4. Allowable tolerances:

- a. Flat and true to within 1/8" of a flat surface over a 10' length.
- b. Allow a minimum of 1/16" to a maximum of 1/8" clearance between surface and each wall.
- c. Variation in Component Size: 1/8" over a 10' length.
- d. Location of Openings: 1/8" from indicated location.
5. Provide manufacturer's 10-year warranty against defects in materials.
 - a. Warranty shall provide material to repair or replace defective materials.
 - b. Damage caused by physical or chemical abuse or damage from excessive heat will not be warranted.
 - c. The above warranty shall be in addition to, shall be in effect simultaneously with, and shall not limit or alter other project or product warranties or guarantees, nor shall it serve as limitation to other remedies available to the Owner.

2.06 FINISHING OF INTERIOR ARCHITECTURAL WOODWORK

- A. Quality Standard: Comply with AWS Section 5, unless otherwise indicated.
- B. Preparations for Finishing: Comply with referenced quality standard for sanding, filling countersunk fasteners, sealing of concealed surfaces and similar preparations for finishing of architectural woodwork, as applicable to each unit of work.
- C. Interiors for wood cabinets: To match wood.
- D. Melamine clad interiors for wood cabinets: To match HPDL.

2.07 ARCHITECTURAL LAMINATE CLAD CABINETS

- A. Quality Standard:
 1. Comply with AWS Section 10.
 2. Grade: **Custom, Grade II.**
 3. Design: Flush overlay - Type A- Frameless construction.
- B. Laminate Cladding: High pressure decorative laminate complying with NEMA LD 3 and as follows:
 1. Colors, Patterns and Finishes: As indicated or, if not otherwise indicated, as selected by Architect from laminate manufacturers' standard products in the following categories: Solid, stippled, textured, wood grain and/or patterned colors; Thru-color type.
 2. Provide specific types as scheduled.
 - a. Horizontal Surfaces: HGS, 0.048 inch nominal thickness, through color, colors as scheduled, finish as scheduled.
 - b. Vertical Surfaces: VGS, 0.028 inch nominal thickness, through color, colors as scheduled, finish as scheduled.
 - c. Post-Formed Horizontal Surfaces: HGP, 0.039 inch nominal thickness, through color, colors as scheduled, finish as scheduled.
 - d. Post-Formed Vertical Surfaces: VGP, 0.028 inch nominal thickness, through color, colors as scheduled, finish as scheduled.
 - e. Flame Retardant Surfaces: HGF, 0.048 inch nominal thickness, through color, colors as scheduled, finish as scheduled.
 - f. Cabinet Liner: CLS, 0.020 inch nominal thickness, through color, colors as scheduled, finish as scheduled.
 - g. Laminate Backer: BKL, 0.020 inch nominal thickness, undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.
- C. Hardboard: AHA A135.4 (tempered).
- D. Melamine clad interiors in laminate cabinets.
- E. Core Materials:
 1. MR Moisture Resistant Medium Density Fiberboard: Average 47-pound density grade, ANSI A208.2.

2.08 INTERIOR FRAMES AND JAMBS

- A. Quality Standard: Comply with AWS Section 10.
 1. Grade: **Custom, Grade II.**

- B. Wood Species:
 - 1. For Opaque Finish: Any closed-grain hardwood listed in referenced woodworking standard.
 - 2. For Transparent Finish (stained): Match wood doors.
- C. Fire Rated Frames:
 - 1. 20 min and 45 min rated types. Refer to Door Schedule.
- D. Jamb Type: Flat jamb, unless indicated otherwise.

2.09 FASTENERS AND ANCHORS

- A. Screws: Select material, type, size and finish required for each use. Comply with FS FF-S-111 for applicable requirements.
- B. Nails: Select material, type, size and finish required for each use. Comply with FS FF-N-105 for applicable requirements.
- C. Anchors: Select material, type, size and finish required by each substrate for secure anchorage. Provide non-ferrous metal or hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion-resistance. Provide toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts and anchors, as required, to be set into concrete or masonry work for subsequent woodwork anchorage.

2.10 CABINET HARDWARE AND ACCESSORY MATERIALS

- A. General: Provide cabinet hardware and accessory materials associated with architectural cabinets, except for items which are specified in Section 08 7100 - Finish Hardware.
- B. Hardware Standard: Comply with ANSI/BHMA A156.9 "American National Standard for Cabinet Hardware" for items indicated by reference to BHMA numbers or referenced to this standard.
- C. Hardware Finishes: Comply with BHMA 1301 for finishes indicated by BHMA Code Numbers or if not otherwise indicated, provide finishes complying with requirements indicated.
 - 1. For exposed hardware comply with requirements indicated for finish and base indicated at the end of this Section.
 - 2. For concealed hardware provide manufacturer's standard finishes which comply with product class requirements of ANSI/BHMA A156.9, and which match exposed hardware on same cabinet unit.

2.11 COUNTERTOP SUPPORT

- A. Countertop support brackets, undercounter support frames, legs and miscellaneous metal parts shall be furniture steel, welded, degreased, cleaned, treated and epoxy powder painted. Color shall be as selected by Architect from manufacturer's standard colors.
 - 1. Support brackets shall be equal to Rakks EH Counter Support Bracket unless otherwise noted.
 - a. For concealed support, provide Inside Wall Flush-Mount bracket.

2.12 CABINET HARDWARE

- A. Cabinet Hinges: 170-degrees adjustable "CLIP System" concealed self-closing hinges as manufactured by Julius Blum, Inc., or equivalent by Grass or Stanley.
 - 1. Finish shall match hardware finish specified in Section 08710 - Finish Hardware in room(s) where occurs.
- B. Cabinet Door and Drawer Pulls:
 - 1. Wire pulls, equivalent to Stanley No. 4484, stainless steel (ANSI B12012), 4-inches long, with 1-inch clearance; unless indicated otherwise. Pull design shall comply with the Americans with Disability Act (ADA).
 - a. Finish shall match hardware finish specified in Section 08 7100 - Finish Hardware.
- C. Cabinet Door Catches: Manufacturer's standard 2-screw sill mounted unit made of molded nylon, lipped over sill to form bumper and hold in place, with 2-screw mounted heavy door mounted unit with nylon roller; provide spring-mounted units where required.
 - 1. Acceptable Manufacturers: Any of manufacturers listed for other cabinet hardware.

- D. Cabinet Drawer Slides: Heavy Duty, non-corrosive (galvanized) full extension ball bearing slides rated at 100-pounds, with positive stop, and self-closing and lift-out disconnect features; Model No. 1429, as manufactured by Knappe & Vogt, or equivalent by Blum or Grant.
 - 1. At legal size drawers, use K&V No. 1483 or equivalent, rated at 150-pounds, with same features as noted above.
- E. Cabinet Shelf Standards: Manufacturer's standard steel units with anchors and supports 5/8-inch wide x 3/16-inch high, adjustable on 1/2-inch centers; Series 255, as manufactured by K&V, or equivalent by Grant or Stanley.
 - 1. Wood Cabinets: Model No. 255 BRN with No. 256 BRN supports and matching fasteners.
 - 2. Omit standards where fixed shelves are indicated.
 - 3. All standards to be recess mounted (flush in routed dados), unless specifically indicated otherwise.
- F. Cabinet Locks: Provide cabinet manufacturer's standard 5-disc tumbler, cam type, keyed differently at each room for each file drawer & where indicated on drawings, with metal strike screwed to wood surface, and master keyed.
 - 1. Furnish 2-keys for each lock.
 - 2. Furnish 5-master keys
 - 3. Finish to match Section 08 7100 - Finish Hardware finish in room(s) where occurs.
 - 4. Location: Where indicated.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Condition woodwork to average prevailing humidity conditions in installation areas prior to installing.
- B. Pre-Installation Meeting: Meet at project site prior to delivery of architectural woodwork and review coordination and environmental controls required for proper installation and ambient conditioning in areas to receive work. Include in meeting the Contractor; Architect and other Owner Representatives (if any); Installers of architectural woodwork, wet work such as plastering, other finishes, painting, mechanical work and electrical work; and firms or persons responsible for continued operation (whether temporary or permanent) of HVAC system as required to maintain temperature and humidity conditions. Proceed with woodwork installation only when everyone concerned agrees that required ambient conditions can be maintained.
- C. Deliver concrete inserts and similar anchoring devices to be built into substrates, well in advance of time substrates are to be built.
 - 1. Coordinate location and placement of concealed treated blocking (by others) prior to finish materials installations.
- D. Prior to installation of architectural woodwork, examine shop fabricated work for completion, and complete work as required, including back priming and removal of packing.

3.02 INSTALLATION

- A. Quality Standard: Install woodwork to comply with AWS Section 2, 6, 10, 11 for the same grade specified in Part 2 of this Section for type of woodwork involved.
- B. Install woodwork plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of 1/8-inch in 8'-0" for plumb and level (including tops); and with no variations in flushness of adjoining surfaces.
- C. Scribe and cut woodwork to fit adjoining work, and refinish cut surfaces or repair damaged finish at cuts.
 - 1. Seal all hardware cuts, routed slots, etc., before installation of hardware.
- D. Anchor woodwork to anchors or blocking built-in or directly attached to substrates. Secure to grounds, stripping and blocking with countersunk, concealed fasteners and blind nailing as required for a complete installation. Except where prefinished matching fasteners heads are required, use fine finishing nails for exposed nailing, countersunk and filled flush with woodwork, and matching final finish where transparent finish is indicated.

- E. Bamboo Flooring (for vertical, and horizontal surfaces): Install in accordance with manufacturer's recommendations.
- F. Standing and Running Trim, and Sills: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to the greatest extent possible. Stagger joints in adjacent and related members. Cope at returns, miter at corners and comply with referenced Quality Standards for joinery.
- G. Cabinets: Install without distortion so that 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 the installation of hardware and accessory items as indicated. Maintain veneer sequence matching (if any) of cabinets with transparent finish.
 - 1. Install cabinets with no more than 1/8-inch in 96-inches sag, bow, or other variation from a straight line.
- H. Tops: Anchor securely to base units and other support systems indicated. Caulk space between backsplash and wall with specified sealant.
 - 1. Install countertops with no more than 1/8-inch in 96-inches sag, bow, or other variation from a straight line.
- I. Wood Panels: Anchor panels to supporting substrate with concealed panel-hanger clips and by blind nailing on backup strips, splined-connection strips, and similar associated trim and framing. Do not face nail unless otherwise indicated.
 - 1. Install flush panels with no more than 1/16-inch in 96-inches vertical cup or bow and 1/8- inch in 96-inches horizontal variation from a true plane.
- J. Install shelf brackets according to manufacturer's written instructions, spaced not more than 32 inches o.c. Fasten to framing members, blocking, or metal backing, or use toggle bolts or hollow wall anchors.
- K. Install standards for adjustable shelf supports according to manufacturer's written instructions. Fasten to framing members, blocking, or metal backing, or use toggle bolts or hollow wall anchors. Space fasteners not more than 12 inches o.c.
- L. Install standards for adjustable shelf brackets according to manufacturer's written instructions, spaced not more than 36 inches o.c. and within 6 inches of ends of shelves. Fasten to framing members, blocking, or metal backing, or use toggle bolts or hollow wall anchors.
- M. Cut shelves to neatly fit openings with only enough gap to allow shelves to be removed and reinstalled. Install shelves, fully seated on brackets, and supports.
 - 1. Fasten shelves to brackets to comply with bracket manufacturer's written instructions.
- N. Install rod flanges for rods as indicated. Fasten to framing members, blocking, or metal backing, or use toggle bolts or hollow wall anchors. Install rods in rod flanges.
- O. Refer to Section 09 9100 - Painting, for final finishing of installed architectural woodwork which is indicated to be painted on-site.

3.03 ADJUSTMENT, CLEANING, FINISHING, AND PROTECTION

- A. Repair damaged and defective woodwork where possible to eliminate defects functionally and visually; 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.
- D. Complete the finishing work specified as work of this section, to whatever extent not completed at shop or prior to installation of woodwork.
- E. Provide final protection and maintain conditions, in a manner acceptable to Fabricator and Installer, which ensures architectural woodwork being without damage or deterioration at time of substantial completion.

END OF SECTION

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SECTION 087100**DOOR HARDWARE****ADDENDUM #1****PART 1 - GENERAL****1.01 SECTION INCLUDES**

- A. Hardware for wood, aluminum, and hollow metal doors.
- B. Hardware for fire-rated doors.
- C. Lock cylinders for doors with balance of hardware specified in other sections.
- D. Thresholds.
- E. Weatherstripping and gasketing.

1.02 RELATED REQUIREMENTS

- A. Section 081113 - Hollow Metal Doors and Frames.
- B. Section 081116 - Aluminum Doors and Frames.
- C. Section 081213 - Hollow Metal Frames.
- D. Section 081416 - Flush Wood Doors.
- E. Section 081433 - Stile and Rail Wood Doors.
- F. Section 083323 - Overhead Coiling Doors: Door hardware, except cylinders.
- G. Section 084313 - Aluminum-Framed Storefronts: Door hardware, except as noted in section.

1.03 REFERENCE STANDARDS

- A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.
- B. ASTM E283/E283M - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen; 2019.
- C. BHMA A156.1 - Standard for Butts and Hinges; 2021.
- D. BHMA A156.3 - Exit Devices; 2020.
- E. BHMA A156.4 - Door Controls - Closers; 2019.
- F. BHMA A156.5 - Cylinders and Input Devices for Locks; 2020.
- G. BHMA A156.6 - Standard for Architectural Door Trim; 2021.
- H. BHMA A156.7 - Template Hinge Dimensions; 2016.
- I. BHMA A156.16 - Auxiliary Hardware; 2018.
- J. BHMA A156.18 - Materials and Finishes; 2020.
- K. BHMA A156.21 - Thresholds; 2019.
- L. BHMA A156.22 - Standard for Gasketing; 2021.
- M. BHMA A156.26 - Standard for Continuous Hinges; 2021.
- N. BHMA A156.28 - Standard for Recommended Practices for Mechanical Keying Systems; 2018.

- O. BHMA A156.36 - Auxiliary Locks; 2020.
- P. BHMA A156.115 - Hardware Preparation in Steel Doors and Steel Frames; 2016.
- Q. BHMA A156.115W - Hardware Preparation in Wood Doors with Wood or Steel Frames; 2006.
- R. DHI (H&S) - Sequence and Format for the Hardware Schedule; 2019.
- S. DHI (KSN) - Keying Systems and Nomenclature; 2019.
- T. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames; 2004.
- U. DHI WDHS.3 - Recommended Locations for Architectural Hardware for Flush Wood Doors; 1993; also in WDHS-1/WDHS-5 Series, 1996.
- V. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.
- W. ITS (DIR) - Directory of Listed Products; Current Edition.
- X. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2022.
- Y. NFPA 105 - Standard for Smoke Door Assemblies and Other Opening Protectives; 2022.
- Z. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2022.
- AA. UL (DIR) - Online Certifications Directory; Current Edition.
- BB. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.
- CC. UL 1784 - Standard for Air Leakage Tests of Door Assemblies; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the manufacture, fabrication, and installation of products that door hardware is installed on.
- B. Sequence installation to ensure facility services connections are achieved in an orderly and expeditious manner.
- C. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; require attendance by affected installers and the following:
 - 1. Architect.
 - 2. Installer's Architectural Hardware Consultant (AHC).
 - 3. Hardware Installer.
 - 4. Owner's Security Consultant.
- D. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- E. Keying Requirements Meeting:
 - 1. Schedule meeting at project site prior to Contractor occupancy.
 - 2. Attendance Requested:
 - a. Contractor.
 - b. Owner.
 - c. Architect.
 - d. Installer's Architectural Hardware Consultant (AHC).
 - 3. Agenda:
 - a. Establish keying requirements.

- b. Verify locksets and locking hardware are functionally correct for project requirements.
 - c. Verify that keying and programming complies with project requirements.
 - d. Establish keying submittal schedule and update requirements.
4. Incorporate "Keying Requirements Meeting" decisions into keying submittal upon review of door hardware keying system including, but not limited to, the following:
 5. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect, Owner, participants, and those affected by decisions made.
 6. Deliver established keying requirements to manufacturers.

1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.
- C. Shop Drawings - Door Hardware Schedule: A detailed listing that includes each item of hardware to be installed on each door.
 1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
 2. Comply with DHI (H&S) using door numbering scheme and hardware set numbers as indicated in Contract Documents.
 - a. Submit in vertical format.
 3. Include complete description for each door listed.
 4. Include manufacturers and product names, and catalog numbers; include functions, types, styles, sizes and finishes of each item.
- D. Shop Drawings - Electrified Door Hardware: Include diagrams for power, signal, and control wiring for electrified door hardware that include details of interface with building safety and security systems. Provide elevations and diagrams for each electrified door opening as follows:
 1. Prepared by or under supervision of Architectural Hardware Consultant (AHC) and Electrified Hardware Consultant (EHC).
 2. Elevations: Include front and back elevations of each door opening showing electrified devices with connections installed and an operations narrative describing how opening operates from either side at any given time.
 3. Diagrams: Include point-to-point wiring diagrams that show each device in door opening system with related colored wire connections to each device.
- E. Samples for Verification:
 1. Submit minimum size of 2 by 4 inch (51 by 102 mm) for sheet samples, and minimum length of 4 inch (102 mm) for other products.
 2. Submit one (1) sample of lockset illustrating style, color, and finish.
 3. Include product description with samples.
- F. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
- G. Manufacturer's qualification statement.
- H. Installer's qualification statement.
- I. Supplier's qualification statement.

- J. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
- K. Keying Schedule:
 - 1. Submit three (3) copies of Keying Schedule in compliance with requirements established during Keying Requirements Meeting unless otherwise indicated.
- L. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- M. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.
- N. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 016000 - Product Requirements, for additional provisions.

1.06 QUALITY ASSURANCE

- A. Standards for Fire-Rated Doors: Maintain one copy of each referenced standard on site, for use by Architect and Contractor.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.
- C. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least three years of documented experience.
- D. Supplier Qualifications: Company with certified Architectural Hardware Consultant (AHC) and Electrified Hardware Consultant (EHC) to assist in work of this section.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

1.08 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide manufacturer warranty against defects in material and workmanship for period indicated, from Date of Substantial Completion. Complete forms in Owner's name and register with manufacturer.
 - 1. Closers: 35 Years, minimum.
 - 2. Exit Devices: Three years, minimum.
 - 3. Locksets and Cylinders: Three years, minimum.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

- A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.
- B. Provide individual items of single type, of same model, and by same manufacturer.
- C. Locks: Provide a lock for each door, unless it's indicated that lock is not required.
 - 1. Lock Function: Provide lock and latch function numbers and descriptions of manufacturer's Series. As indicated in hardware sets.
 - 2. Trim: Provide lever handle or pull trim on outside of each lock, unless otherwise indicated.

3. Strikes:
 - a. Finish: To match lock or latch.
 - b. Curved-Lip Strikes: Provide as standard, with extended lip to protect frame, unless otherwise indicated.
 - c. Center Strike At Pairs of Doors: 7/8 inch (22.2 mm) lip.
- D. Door Pulls and Push Plates:
 1. Provide door pulls and push plates on doors without a lockset, latchset, exit device, or auxiliary lock unless otherwise indicated.
- E. Closers:
 1. Provide door closer on each exterior door, unless otherwise indicated.
 2. Provide door closer on each fire-rated and smoke-rated door.
 3. Spring hinges are not an acceptable self-closing device, unless otherwise indicated.
- F. Drip Guards: Provide at head of outswinging exterior doors unless protected by roof or canopy directly overhead.
- G. Thresholds:
 1. Exterior Applications: Provide at each exterior door, unless otherwise indicated.
- H. Weatherstripping and Gasketing:
 1. Provide weatherstripping on each exterior door at head, jambs, and meeting stiles of door pairs, unless otherwise indicated.
 2. Provide door bottom sweep on each exterior door, unless otherwise indicated.
- I. Fasteners:
 1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
 - a. Aluminum fasteners are not permitted.
 - b. Provide phillips flat-head screws with heads finished to match door surface hardware unless otherwise indicated.
 2. Provide machine screws for attachment to reinforced hollow metal and aluminum frames.
 - a. Self-drilling (Tek) type screws are not permitted.
 3. Provide stainless steel machine screws and lead expansion shields for concrete and masonry substrates.
 4. Provide wall grip inserts for hollow wall construction.
 5. Fire-Resistance-Rated Applications: Comply with NFPA 80.
 - a. Provide wood or machine screws for hinges mortised to doors or frames, strike plates to frames, and closers to doors and frames.
 - b. Provide steel through bolts for attachment of surface mounted closers, hinges, or exit devices to door panels unless proper door blocking is provided.

2.02 PERFORMANCE REQUIREMENTS

- A. Provide door hardware products that comply with the following requirements:
 1. Applicable provisions of federal, state, and local codes.
 2. Accessibility: ADA Standards and ICC A117.1.
 3. Fire-Resistance-Rated Doors: NFPA 80, listed and labeled by qualified testing agency for fire protection ratings indicated, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.

4. Hardware on Fire-Resistance-Rated Doors: Listed and classified by UL (DIR), ITS (DIR), testing firm acceptable to authorities having jurisdiction, or _____ as suitable for application indicated.
5. Hardware for Smoke and Draft Control Doors (Indicated as "S" on Drawings): Provide door hardware that complies with local codes, and requirements of assemblies tested in accordance with UL 1784.
6. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
7. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
8. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified.

2.03 HINGES

- A. Manufacturers: Conventional butt hinges.
 1. BEST; dormakaba Group: www.bestaccess.com/#sle.
- B. Properties:
 1. Butt Hinges: As applicable to each item specified.
 - a. Standard Weight Hinges: Minimum of two (2) permanently lubricated non-detachable bearings.
 - b. Heavy Weight Hinges: Minimum of four (4) permanently lubricated bearings on heavy weight hinges.
 - c. Template screw hole locations.
 - d. Bearing assembly installed after plating.
 - e. Bearings: Exposed fully hardened bearings.
 - f. Bearing Shells: Shapes consistent with barrels.
 - g. Pins: Easily seated, non-rising pins.
 - 1) Fully plate hinge pins.
 - 2) Non-Removable Pins: Slotted stainless steel screws.
 - h. UL 10C listed for fire-resistance-rated doors.
 2. Continuous Hinges: As applicable to each item specified.
- C. Sizes: See Door Hardware Schedule.
 1. Hinge Widths: As required to clear surrounding trim.
 2. Sufficient size to allow 180 degree swing of door.
- D. Finishes: See Door Hardware Schedule.
 1. Fully polish hinges, front, back, and barrel.
- E. Grades:
 1. Butt Hinges: Comply with BHMA A156.1 and BHMA A156.7 for templated hinges.
 2. Continuous Hinges: Comply with BHMA A156.26, Grade 1.
- F. Material: Base metal as indicated for each item by BHMA material and finish designation.
- G. Types:
 1. Butt Hinges: Include full mortise hinges.
 2. Continuous Hinges: Include geared hinges.
- H. Options: As applicable to each item specified.
- I. Quantities:
 1. Butt Hinges: Three (3) hinges per leaves up to 90 inches (2286 mm) in height. Add one (1) for each additional 30 inches (762 mm) in height or fraction thereof.

- a. Hinge weight and size unless otherwise indicated in hardware sets:
 - 1) For doors up to 36 inches (914 mm) wide and up to 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.134 inch (3.4 mm) and a minimum of 4-1/2 inches (114 mm) in height.
 - 2) For doors from 36 inches (914 mm) wide up to 42 inches (1067 mm) wide and up to 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.145 inch (3.7 mm) and a minimum of 4-1/2 inches (114 mm) in height.
 - 3) For doors from 42 inches (1067 mm) wide up to 48 inches (1219 mm) wide and up to 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.180 inch (4.6 mm) and a minimum of 5 inches (127 mm) in height.
 - 4) For doors greater than 1-3/4 inches (44.5 mm) thick provide hinges with a minimum thickness of 0.180 inch (4.6 mm) and a minimum of 5 inches (127 mm) in height.
- 2. Continuous Hinges: One per door leaf.
- J. Applications: At swinging doors.
 - 1. Provide non-removable pins at out-swinging doors with locking hardware and all exterior doors.
- K. Products:
 - 1. Butt Hinges:
 - a. Ball Bearing, Five (5) Knuckle.
 - 2. Continuous Hinges:
 - a. Aluminum geared hinges.

2.04 BOLTS

- A. Manufacturers:
 - 1. Trimco: www.trimcohardware.com/#sle.
- B. Properties:
 - 1. Flush Bolts:
 - a. Manual Flush Bolts: Manually latching upon closing of door leaf.
 - 1) Bolt Throw: 3/4 inch (19 mm), minimum.
 - 2. Dustproof Strikes: For bolting into floor, provide except at metal thresholds.
- C. Options:
 - 1. Extension Bolts: In leading edge of door, one bolt into floor, one bolt into top of frame.
- D. Products:
 - 1. Manual flush bolts.

2.05 EXIT DEVICES

- A. Manufacturers:
 - 1. BEST, dormakaba Group: www.bestaccess.com/#sle.
- B. Properties:
 - 1. Actuation: Full-length touchpad.
 - 2. Chassis:
 - a. Construction: Investment cast steel, zinc dichromate plated.
 - b. Compatibility: Standard Stile and Narrow Stile doors.
 - 3. Touchpads: "T" style metal touchpads and rail assemblies with matching chassis covers end caps.

4. Latch Bolts: Stainless steel deadlocking with 3/4 inch (19 mm) projection using latch bolt.
 5. Lever Design: Match project standard lockset trims.
 6. Cylinder: Include where cylinder dogging or locking trim is indicated.
 7. Strike as recommended by manufacturer for application indicated.
 8. Sound dampening on touch bar.
 9. Dogging:
 - a. Non-Fire-Resistance-Rated Devices: Hex key 1/4 inch (6 mm) hex key dogging.
 - b. Fire-Resistance-Rated Devices: Manual dogging not permitted.
 10. Touch bar assembly on wide style exit devices to have a 1/4 inch (6.3 mm) clearance to allow for vision frames.
 11. All exposed exit device components to be of architectural metals and “true” architectural finishes.
 12. Handing: Field-reversible.
 13. Fasteners on Back Side of Device Channel: Concealed - exposed fasteners not allowed.
 14. Vertical Latch Assemblies' Operation: Gravity, without use of springs.
- C. Grades: Complying with BHMA A156.3, Grade 1.
1. Provide exit devices tested and certified by UL or by a recognized independent laboratory for mechanical operational testing to 10 million cycles minimum with inspection confirming Grade 1 Loaded Forces have been maintained.
- D. Options:
- E. Products:
1. 2000.

2.06 REMOVABLE MULLIONS

- A. Manufacturers:
1. BEST, dormakaba Group: www.bestaccess.com/#sle.
- B. Properties:
1. Rectangular shape 3 inches (76 mm) by 2 inches (51 mm) tubes with minimum 1/8 inch (3.2 mm) wall thickness.
 2. Furnished by the same manufacturer as exit devices.
 3. Pre-drilled holes for installation of exit device strikes.
 4. Spacers: Provide as required for proper installation, based on frame profile and dimensions.
- C. Grades: Complying with BHMA A156.3.
- D. Materials: Manufacturer's standard for items specified.
1. Top and Bottom Brackets: Investment-cast steel.
- E. Options:
1. Furnish Keyed Removable “KR” feature and corresponding cylinders as specified.
 - a. Mullions capable of being installed without physical key present.
 - b. Physical key required to operate.
- F. Applications: As indicated on drawings and in Door Hardware Schedule.
- G. Products:
1. 822 Series.

2.07 LOCK CYLINDERS

- A. Manufacturers:
 - 1. BEST, dormakaba Group: www.bestaccess.com/#sle.
- B. Properties:
 - 1. Lock Cylinders: Provide key access on outside of each lock, unless otherwise indicated.
 - a. Provide cylinders from same manufacturer as locking device.
 - b. Provide cams and/or tailpieces as required for locking devices.
 - c. Provide cylinders with appropriate format interchangeable cores where indicated.
- C. Grades:
 - 1. Standard Security Cylinders: Comply with BHMA A156.5.
- D. Material:
 - 1. Manufacturer's standard corrosion-resistant brass alloy.
- E. Types: As applicable to each item specified.
 - 1. Standard security small format interchangeable core (SFIC) type cylinders, with six-pin, 6C cores.
- F. Applications: At locations indicated in hardware sets, and as follows
 - 1. As required for items with locking devices provided by other sections, including at elevator controls and cabinets.
 - a. When provisions for lock cylinders are referenced elsewhere in the Project Manual to this Section, provide compatible type of lock cylinder, keyed to building keying system, unless otherwise indicated.
- G. Products:
 - 1. Rim/mortise.

2.08 MORTISE LOCKS

- A. Manufacturers:
 - 1. BEST, dormakaba Group: www.bestaccess.com/#sle.
- B. Properties:
 - 1. Mechanical Locks: Manufacturer's standard.
 - a. Fitting modified ANSI A115.1 door preparation.
 - b. Door Thickness Coordination Fitting 1-3/4 inch (44 mm) to 2-1/4 inch (57 mm) thick doors.
 - c. Latch: Solid, one-piece, anti-friction, self-lubricating stainless steel.
 - 1) Latchbolt Throw: 3/4 inch (19 mm), minimum.
 - d. Auxiliary Deadlatch: One piece stainless steel, permanently lubricated.
 - e. Backset: 2-3/4 inch (70 mm).
 - f. Lever Trim:
 - 1) Functionality: Allow the lever handle to move up to 45 degrees from horizontal position prior to engaging the latchbolt assembly.
 - 2) Strength: Locksets outside locked lever designed to withstand minimum 1,400 inch-lbs (158.2 Nm) of torque. In excess of that, a replaceable part will shear. Key from outside and/or inside lever will still operate lockset.
 - 3) Spindle: Designed to prevent forced entry from attacking of lever.
 - 4) Independent spring mechanism for each lever.
 - (a) Trim to be self-aligning and thru-bolted.

- 5) Handles: Made of forged or cast brass, bronze, or stainless steel construction. Levers that contain a hollow cavity are not acceptable.
- 6) Levers to operate a roller bearing spindle hub mechanism.
2. Electrified Locks: Same properties as standard locks, and as follows:
 - a. Voltage: 12 VDC.
 - b. Function: Electrically locked (Fail Safe) or unlocked (Fail Secure), as indicated for each lock in Door Hardware Schedule.
- C. Finishes: See Door Hardware Schedule.
 1. Core Faces: Match finish of lockset.
- D. Grades:
- E. Options:
 1. Provide locksets made in a manufacturing facility to compliant with ISO 9001-Quality Management and ISO 14001-Environmental Management.
- F. Products: Mortise locks, including standard and electrified types.
 1. 40H.

2.09 AUXILIARY LOCKS (DEADLOCKS)

- A. Manufacturers:
 1. BEST, dormakaba Group: www.bestaccess.com/#sle.
- B. Properties:
 1. Backset: 2-3/4 inch (70 mm), unless otherwise indicated.
 2. Strike: Appropriate for door frame.
 3. Cylindrical Deadbolt: Manufacturer's standard, adjustable to accommodate range of door thicknesses indicated.
 - a. Door Thickness Fit: 1-3/8 inches (35 mm) to 3 inches (76 mm) thick doors.
 - b. Bolt Throw: 1 inch (25.4 mm) hardened steel.
 - c. UL listed for up to 3 hours.
- C. Grades:
 1. Cylindrical Deadbolts: Tested and approved by BHMA A156.36, Operational Grade 1.
- D. Products:
 1. 82/83T (Cylindrical, Grade 1).

2.10 NARROW STILE DEADLATCHES

- A. Manufacturers:
 1. Accurate Lock and Hardware Co., LLC; www accuratelockandhardware.com/#sle.
 2. Adams Rite.
- B. Properties:
 1. Door Thickness Fit: 1-3/8 inch (35 mm) to 2-1/4 inch (57 mm) thick doors.
 2. Cases:
 - a. Material: Steel with corrosion-resistant plating.
 - b. Depth: Varies, commensurate with backset dimension.
 3. Backset: 7.8 inch (22.2 mm), unless otherwise noted.
 4. Latch: Single piece tail-piece construction.
 5. Auxiliary Deadlatch: One piece stainless steel, permanently lubricated.
 6. Cylinders: Provide mortise cylinders.

7. Faceplates:: Manufacturer's standard for lock selected and door edge condition.
8. Trim: See Door Hardware Schedule.

C. Products:

1. MS1850S.

2.11 DOOR PULLS AND PUSH PLATES

A. Manufacturers:

1. Trimco: www.trimcohardware.com/#sle.

B. Properties:

1. Pull Type: Straight, unless otherwise indicated.
2. Push Plate Type: Flat, with square corners, unless otherwise indicated.
 - a. Edges: Beveled, unless otherwise indicated.

C. Grades: Comply with BHMA A156.6.

D. Material: Stainless steel, unless otherwise indicated.

E. Products:

1. Push-Pull Plates.

2.12 CLOSERS

A. Manufacturers:

1. BEST, dormakaba Group www.bestaccess.com/#sle.
2. dormakaba; dormakaba Group: www.dormakaba.com/us-en/#sle.

B. Properties:

1. Surface Mounted Closers: Manufacturer's standard.
 - a. Construction: R14 high silicon aluminum alloy.
 - b. Hydraulic Fluid: All-weather type.
 - c. Arm Assembly: Standard for product specified.
 - 1) Include hold-open, integral stop, or spring-loaded stop feature, as specified in Door Hardware Schedule.
 - 2) Parallel arm to be a heavy-duty rigid arm.
 - 3) Where "IS" or "S-IS" arms are specified in hardware sets, if manufacturer does not offer this arm provide a regular arm mount closer in conjunction with a heavy-duty overhead stop equal to a dormakaba 900 Series.
 - d. Covers:
 - 1) Type: Standard for product selected.
 - 2) Material: Plastic.
 - 3) Finish: Painted.

C. Grades:

1. Closers: Comply with BHMA A156.4, Grade 1.
 - a. Underwriters Laboratories Compliance:
 - 1) Product Listing: UL (DIR) and ULC for use on fire-resistance-rated doors.
 - (a) UL 228 - Door Closers-Holders, With or Without Integral Smoke Detectors.

D. Types:

1. Rack-and-pinion, surface-mounted. 1-1/2 inches (38 mm) minimum bore.

E. Options:

1. Delayed action, adjustable with an independent valve.
- F. Installation:
1. Mounting: Includes surface mounted installations.
 2. Mount closers on non-public side of door and stair side of stair doors unless otherwise noted in hardware sets.
 3. At outswinging exterior doors, mount closer on interior side of door.
 4. Provide adapter plates, shim spacers, and blade stop spacers as required by frame and door conditions.
 5. Where an overlapping astragal is included on pairs of swinging doors, provide coordinator to ensure door leaves close in proper order.
- G. Products:
1. Surface Mounted:
 - a. EHD9000

2.13 PROTECTION PLATES

- A. Manufacturers:
1. Trimco: www.trimcohardware.com/#sle.
- B. Properties:
1. Plates:
 - a. Kick Plates: Provide along bottom edge of push side of every wood door with closer, except aluminum storefront and glass entry doors, unless otherwise indicated.
 - 1) Size: 10 inches (254 mm) high by 2 inch (51 mm) less door width (LDW) on push side of door.
 - b. Mop Plates: Provide along bottom edge of push side of doors to provide protection from cleaning liquids and equipment damage to door surface.
 - 1) Size: 6 inch (152 mm) high by 1-1/2 inch (38 mm) less door width (LDW) on pull side and 2 inch (51 mm) LDW on push side of door.
 - c. Edges: Beveled, on four (4) unless otherwise indicated.
- C. Grades: Comply with BHMA A156.6.
- D. Material: As indicated for each item by BHMA material and finish designation.
1. Metal Properties: Stainless steel.
 - a. Metal, Standard Duty: Thickness 0.050 inch (1.27 mm), minimum.
- E. Installation:
1. Fasteners: Countersunk screw fasteners
- F. Products:
1. K0050.

2.14 STOPS AND HOLDERS

- A. Manufacturers:
1. Trimco: www.trimcohardware.com/#sle.
- B. General: Provide overhead stop/holder when wall or floor stop is not feasible.
- C. Grades:
1. Wall Bumpers and Floor Stops: Comply with BHMA A156.16 and Resilient Material Retention Test as described in this standard.
- D. Material: Base metal as indicated for each item by BHMA material and finish designation.

- E. Types:
 - 1. Wall Bumpers: Bumper, concave, wall stop.
 - 2. Floor Stops: Provide with bumper floor stop.
- F. Installation:
 - 1. Non-Masonry Walls: Confirm adequate wall reinforcement has been installed to allow lasting installation of wall bumpers.
- G. Products:
 - 1. Wall Bumpers.
 - 2. Floor Stops.

2.15 THRESHOLDS

- A. Manufacturers:
 - 1. National Guard Products, Inc: www.ngpinc.com/#sle.
- B. Properties:
 - 1. Threshold Surface: Fluted horizontal grooves across full width.
- C. Grades: Thresholds: Comply with BHMA A156.21.
- D. Types: As applicable to project conditions. Provide barrier-free type at every location where specified.
 - 1. Saddle Thresholds: Without thermal break.
- E. Products:
 - 1. 425, 895 .

2.16 WEATHERSTRIPPING AND GASKETING

- A. Manufacturers:
 - 1. National Guard Products, Inc: www.ngpinc.com/#sle.
- B. Properties:
 - 1. Weatherstripping Air Leakage Performance: Not exceeding 0.3 cfm/sq ft (____ l/sq m) of door opening at 0.3 inches of water pressure differential for single doors, and 0.5 cfm/sq ft (____ l/sq m) of door area at 0.3 inches of water pressure differential for double doors for gasketing other than smoke control, as tested according to ASTM E283/E283M; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
- C. Grades: Comply with BHMA A156.22.
- D. Products:
 - 1. Weatherstripping: See Door Hardware Schedule.
 - 2. Meeting Stile Seals: See Door Hardware Schedule.
 - 3. Door Bottom Seals:
 - a. Door Sweeps: See Door Hardware Schedule.

2.17 MISCELLANEOUS ITEMS

- A. Manufacturers:
 - 1. Trimco: www.trimcohardware.com/#sle.
- B. Properties:
 - 1. Silencers: Provide at equal locations on door frame to mute sound of door's impact upon closing.
 - a. Single Door: Provide three on strike jamb of frame.

- b. Pair of Doors: Provide two on head of frame, one for each door at latch side.
- c. Material: Rubber, gray color.

C. Products:

1. Silencers.

2.18 KEYS AND CORES

A. Manufacturers:

1. BEST, dormakaba Group: www.bestaccess.com/#sle.

B. Properties: Complying with guidelines of BHMA A156.28.

1. Provide small format interchangeable core.
2. Provide Patented CORMAX keys and cores.
3. Provide keying information in compliance with DHI (KSN) standards.
4. Keying Schedule: Arrange for a keying meeting, with Architect, Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying complies with project requirements.
5. Keying: Master keyed.
6. Include construction keying and control keying with removable core cylinders.
7. Supply keys in following quantities:
 - a. Master Keys: 4 each.
 - b. Construction Master Keys: 6 each.
 - c. Construction Keys: 15 each.
 - d. Construction Control Keys: 2 each.
 - e. Control Keys if New System: 2 each.
8. Provide key collection envelopes, receipt cards, and index cards in quantity suitable to manage number of keys.
9. Deliver keys with identifying tags to Owner by security shipment direct from manufacturer.
10. Permanent Keys and Cores: Stamped with applicable key marking for identification. Do not include actual key cuts within visual key control marks or codes. Stamp permanent keys "Do Not Duplicate."
11. Include installation of permanent cores and return construction cores to hardware supplier. Construction cores and keys to remain property of hardware supplier.

C. Products:

1. Patented:
 - a. CORMAX.

2.19 FINISHES

A. Finishes: Provide door hardware of same finish, unless otherwise indicated.

1. Finish: 630; satin stainless steel, with stainless steel 3000 series base material (former US equivalent 32D), 652; satin chromium plated over nickel, with steel base material (former US equivalent 26D), and 689; aluminum painted, with any base material (former US equivalent US28); BHMA A156.18.

B. Exceptions:

1. Where base material metal is specified to be different, provide finish that is an equivalent appearance in accordance with BHMA A156.18.
2. Hinges for Fire-Rated Doors: Steel base material with painted finish, in compliance with NFPA 80.

PART 3 EXECUTION**3.01 EXAMINATION**

- A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.
- B. Correct all defects prior to proceeding with installation.
- C. Verify that electric power is available to power operated devices and of correct characteristics.

3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Install hardware using the manufacturer's fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use "Riv-Nuts" or similar products.
- C. Install hardware on fire-rated doors and frames in accordance with applicable codes and NFPA 80.
- D. Install hardware for smoke and draft control doors in accordance with NFPA 105.
- E. Use templates provided by hardware item manufacturer.
- F. Do not install surface mounted items until application of finishes to substrate are fully completed.
- G. Wash down masonry walls and complete painting or staining of doors and frames.
- H. Complete finish flooring prior to installation of thresholds.
- I. Door Hardware Mounting Heights: Distance from finished floor to center line of hardware item. As indicated in following list, unless noted otherwise in Door Hardware Schedule or on drawings.
 - 1. For Steel Doors and Frames: Install in compliance with DHI (LOCS) recommendations.
 - 2. For Steel Doors and Frames: See Section 6549.
 - 3. For Steel Door Frames: See Section 081213.
 - 4. For Aluminum-Framed Storefront Doors and Frames: See Section 084313.
 - 5. For Wood Doors: Install in compliance with DHI WDHS.3 recommendations.
 - 6. Flush Wood Doors: See Section 081416.
 - 7. Stile and Rail Wood Doors: See Section 081433.
 - 8. Mounting heights in compliance with ADA Standards:
 - a. Locksets: 40-5/16 inch (1024 mm).
 - b. Push Plates/Pull Bars: 42 inch (1067 mm).
 - c. Deadlocks (Deadbolts): 48 inch (1219 mm).
 - d. Exit Devices: 40-5/16 inch (1024 mm).
 - e. Door Viewer: 43 inch (1092 mm); standard height 60 inch (1524 mm).
- J. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal, anchor thresholds with stainless steel countersunk screws.
- K. Include in installation for existing doors and frames any necessary field modification and field preparation of doors and frames for new hardware. Provide necessary fillers, reinforcements, and fasteners for mounting new hardware and to cover existing door and frame preparations.

3.03 FIELD QUALITY CONTROL

- A. Perform field inspection and testing under provisions of Section 014000 - Quality Requirements.

3.04 ADJUSTING

- A. Adjust work under provisions of Section 017000 - Execution and Closeout Requirements.
- B. Adjust hardware for smooth operation.
- C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

3.05 CLEANING

- A. Clean finished hardware in accordance with manufacturer's written instructions after final adjustments have been made.

3.06 PROTECTION

- A. Protect finished Work under provisions of Section 017000 - Execution and Closeout Requirements.
- B. Do not permit adjacent work to damage hardware or finish.

Manufacturer list

A-R	Adams Rite
BES	Best
BES	BEST
PRE	BEST (Precision)
NGP	National Guard Products
TRI	Trimco

Option list

Code:	Name:
S300	Standard strike
3	2-3/4" Backset
SIS90	SIS90 HD regTJ comp
S2	Standard Spindle
7	7 Pin
0	0>Non-Keyed
SDS90	SDS90 HD comp
SPA90	SPA90 HD
B4E	Beveled 4 edges
AVB	AVB Advanced Variable Backchk
B4E	Bevel 4 edges
CHB	Entrance Holdback Function
VIB	Double Visual Indicator
PATD	Patented keyed core
T	Dormitory Function
AF90P	AF90P Stard flat m tri-pack
CS	Concealed Screws
4903	Key retracts latchbolt

4" ODW	4" Over Door Width
WV	Wrought Wall Bumper Concave Combo Pack
PATD	Patented
3B	Pull Plate 4" x 16" with 10" CTC Pull
LAR	Length As Required
RP	Rim Cylinder Ring
410	1-1/2" - Backset Straight Bolt – Non Handed
NRP	NRP>NON-REMOVABLE PINS
CSK	Counter Sunk Holes

Finish list

Code:	Name:
600	600>Primer
689	689 Aluminum
626	Satin Chrome plated over nickel
A	Anodized Aluminum
26D	26D>CHROMIUM PLATED SATIN
US27	Mill Finish
628	Clear Anodized
Gray	Gray Rubber
630	Satin stainless steel
630	Satin Stainless Steel
AL	AL>ALUM CLEAR COATED
626	Satin chromium plated

Specification Report

Set #1

Doors: 101A, 100B, 100C

1 Hardware By Door Mfg.

NOTE: OH door

Set #2

Doors: 101B, 102

6	Hinge	FBB168 NRP 4.5 X 4.5	26D	BES
2	Flush Bolt	3917 12	626	TRI
1	Mortise Lock	45H 7 D 14 H PATD	626	BES
1	Strike	3910	630	TRI
2	Door Closer	EHD9016 SPA90	689	BES
2	Kick Plate	K0050 10" X 1.5" LDW CSK B4E	630	TRI
1	Astragal	By Hollow Metal Dr. Mfg.		
2	Silencer	1229A	Gray	TRI

Set #3

Doors: 104, 226A, 214B.1, 213B.1

3	Hinge	FBB168 NRP 4.5 X 4.5	26D	BES
1	Mortise Lock	45H 7 D 14 H PATD	626	BES
1	Door Closer	EHD9016 SPA90	689	BES
1	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1	Wall Stop	1270 WV	630	TRI
2	Silencer	1229A	Gray	TRI

Set #4

Doors: 105, 106, 215, 218

3	Hinge	FBB168 4.5 X 4.5	26D	BES
1	Deadbolt	8T 3 S CS PATD 7	626	BES
1	Push Plate	1001 3	630	TRI
1	Pull Plate	1018 3B	630	TRI
1	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1	Mop Plate	KM050 6" X 1" LDW CSK B4E	630	TRI
1	Wall Stop	1270 WV	630	TRI
3	Silencer	1229A	Gray	TRI

Set #5

Doors: 100A, 100E, 100F, 100D, 201G, **223**, 212, 221A, 213A, 214A, **200, 213C, 227A, 227B, 227C, 227D**

2	Hinge	661HDUL 83IN	AL	BES
1	Mullion	RM 822	600	PRE

2	Exit Device	2103 4903 D S300	630	PRE
3	Rim Cylinder	12E 7 2 PATD S2 RP	626	BES
2	Door Closer	EHD9016 SDS90	689	BES
1	Threshold	896 S LAR (1/4-20 SS MS/EA)	US27	NGP
1	Weatherstrip	By Alum Frame Mfg.		
1	Meeting Style Seal	By Alum Door Mfg.		
2	Sweep	C627 LAR	A	NGP
1	Drip Cap	16 4" ODW	A	NGP

Set #6

Doors: 201A, 201B, 201C, 201D

6	Hinge	FBB168 NRP 4.5 X 4.5	26D	BES
1	Mullion	RM 822	600	PRE
2	Exit Device	2108 4908 D S300	630	PRE
3	Rim Cylinder	12E 7 2 PATD S2 RP	626	BES
2	Door Closer	EHD9016 SDS90	689	BES
1	Threshold	425 LAR (1/4-20 SS MS/EA)	US27	NGP
1	Weatherstrip	By Alum Frame Mfg.		
1	Meeting Style Seal	By Alum Door Mfg.		

Set #7

Doors: 201F, 201H

2	Hinge	661HDUL 83IN	AL	BES
2	Push / Pull Bar	1737 CTC dimension as directed by Architect	630	TRI
2	Door Closer	EHD9016 SDS90	689	BES
1	Weatherstrip	By Alum Frame Mfg.		
1	Meeting Style Seal	By Alum Door Mfg.		

Set #8

Doors: 225, 224, 210, 219

3	Hinge	FBB168 4.5 X 4.5	26D	BES
1	Mortise Lock	45H 7 D 14 H PATD	626	BES
1	Door Closer	EHD9016 AF90P	689	BES
1	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1	Wall Stop	1270 WV	630	TRI
2	Silencer	1229A	Gray	TRI

Set #9

Doors: 220, 209

3	Hinge	FBB168 4.5 X 4.5	26D	BES
1	Mortise Lock	45H 0 L 14 H VIB	626	BES
1	Door Closer	EHD9016 AF90P	689	BES
1	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1	Mop Plate	KM050 6" X 1" LDW CSK B4E	630	TRI

1	Wall Stop	1270 WV	630	TRI
2	Silencer	1229A	Gray	TRI

Set #10

Doors: 203, 204, 205, 206, 207

3	Hinge	FBB179 4.5 X 4.5	26D	BES
1	Mortise Lock	45H 7 AB 14 H PATD	626	BES
1	Wall Stop	1270 WV	630	TRI
3	Silencer	1229A	Gray	TRI

Set #11

Doors: 216, 217, **228**

1	Hinge	661HDUL 83IN	AL	BES
1	Mortise Lock	45H 7 T 14 H PATD VIB	626	BES
1	Door Closer	EHD9016 SDS90	689	BES
1	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1	Gasketing	160S Head & Jambs (2)	A	NGP
1	Sweep	200N LAR	A	NGP
1	Threshold	425 LAR (1/4-20 SS MS/EA)	US27	NGP

Set #12

Doors: 202

3	Hinge	FBB168 4.5 X 4.5	26D	BES
1	Mortise Lock	45H 7 CHB 14 H PATD	626	BES
1	Door Closer	EHD9016 AF90P	689	BES
1	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1	Wall Stop	1270 WV	630	TRI
2	Silencer	1229A	Gray	TRI

Set #13

Doors: 213C, 214B

6	Hinge	FBB168 NRP 4.5 X 4.5	26D	BES
2	Flush Bolt	3917 12	626	TRI
1	Deadlock	MS1850S 410	628	A-R
1	Thumbturn	4066 01	628	A-R
1	Strike	3910	630	TRI
2	Push / Pull Bar	1737 CTC dimension as directed by Architect	630	TRI
2	Door Closer	EHD9016 SDS90	689	BES
1	Weatherstrip	By Alum Frame Mfg.		
1	Meeting Style Seal	By Alum Door Mfg.		

Set #14

Doors: 221B

6	Hinge	FBB168 NRP 4.5 X 4.5	26D	BES
2	Flush Bolt	3917 12	626	TRI
1	Deadlock	MS1850S 410	628	A-R
1	Thumbturn	4066 01	628	A-R
1	Strike	3910	630	TRI
2	Push / Pull Bar	1737 CTC dimension as directed by Architect	630	TRI
2	Door Closer	EHD9016 SIS90	689	BES
1	Weatherstrip	By Alum Frame Mfg.		
1	Meeting Style Seal	By Alum Door Mfg.		

Set #15**Doors: 213B, 214C, 226B**

3	Hinge	FBB168 4.5 X 4.5	26D	BES
1	Mortise Lock	45H 7 D 14 H PATD	626	BES
1	Door Closer	EHD9016 AF90P	689	BES
1	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1	Wall Stop	1270 WV	630	TRI
1	Gasketing	160S Head & Jamb (2)	A	NGP

Set #16**Doors: 300**

1	Hinge	661HDUL 83IN	AL	BES
1	Mortise Lock	45H 7 (AT) F04 14 H	626	BES
1	Door Closer	EHD9016 SDS90	689	BES
1	Kick Plate	K0050 10" X 2" LDW CSK B4E	630	TRI
1	Gasketing	160S Head & Jambs (2)	A	NGP
1	Sweep	200N LAR	A	NGP
1	Threshold	425 LAR (1/4-20 SS MS/EA)	US27	NGP

END OF SECTION

SECTION 092116
GYPSUM BOARD ASSEMBLIES

ADDENDUM #1

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY:

- A. This Section includes the following:
1. Gypsum board including the following board types:
 - a. Regular, gypsum board.
 - b. Type X or type C gypsum board for fire rated assemblies.
 - c. Moisture and mold-resistant gypsum board.
 - d. Glass-mat, water-resistant gypsum backing board. (tile backing board)
 2. Suspended drywall furring system.
 3. Sound Insulation.
- B. Related Sections:
1. Division 6 Section - "Rough Carpentry."
 2. Division 7 Section - "Firestopping."
 3. Division 8 Section - Hollow Metal Doors and Frames.
 4. Division 8 Section - "Access Doors and Frames."
 5. Division 9 Section - "Acoustical Panel Ceilings."
 6. Division 9 Section - "Tiling."
 7. Division 9 Section - "Painting."
 8. Division 22 - Plumbing sections.
 9. Division 23 - Heating, Ventilating, and Air Conditioning sections.
 10. Division 23 - Electrical sections.

1.3 DEFINITIONS:

- A. Gypsum Board Terminology: Refer to ASTM C 11 for definitions of terms for gypsum board assemblies not defined in this Section or in other referenced standards.

1.4 DESIGN AND PERFORMANCE REQUIREMENTS:

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, comply with the applicable rules of any rules-writing agency

certified by the ALSC Board of Review. Grade lumber by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.

1. Factory mark each piece of lumber with grade stamp of grading agency.
 2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of each piece.
 3. Provide dressed lumber, S4S, unless otherwise indicated.
- A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.
1. Comply with fire rated assembly designs indicated or those included in the following publications:
 - a. Gypsum Association: GA-600 "Fire Resistance Design Manual," current edition.
 - b. Underwriters Laboratories, Inc.: UL "Fire Resistance Directory," current edition.
 2. Fire-rated assembly designs by other testing and inspecting agency will be acceptable subject to approval of authorities having jurisdiction.
- B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.

1.5 SUBMITTALS:

- A. Product Data: Submit manufacturer's product literature, including installation instructions, indicating compliance with specified requirements.
1. Mark literature to indicate only those products proposed for use.
 2. Include data for fire-rated and sound-rated partitions. Include details for acoustical sealant installation.
 3. Include technical data and manufacturer's details for suspended drywall furring system.
- B. Product Certificates: Submit certification signed by manufacturers of gypsum board assembly components certifying that their products comply with specified requirements.

1.6 QUALITY ASSURANCE:

- A. Single-Source Limitations:
1. Panel Products: Obtain each type of gypsum board and other panel products from a single manufacturer.
 2. Finishing Materials: Obtain finishing materials from either the same manufacturer that supplies gypsum board and other panel products or from a manufacturer acceptable to gypsum board manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING:

- A. Deliver materials in original packages, containers, or bundles bearing brand name and identification of manufacturer or supplier.
- B. Store materials inside under cover and keep them dry and protected against damage from weather, direct sunlight, surface contamination, corrosion, construction traffic, and other causes. Neatly stack gypsum panels flat to prevent sagging.

1.8 PROJECT CONDITIONS:

- A. Environmental Conditions, General: Establish and maintain environmental conditions for applying and finishing gypsum board to comply with ASTM C 840 requirements or gypsum board manufacturer's recommendations, whichever are more stringent.
- B. Room Temperatures:
 - 1. For nonadhesive attachment of gypsum board to framing, maintain not less than 40 deg F (4 deg C).
 - 2. For adhesive attachment and finishing of gypsum board, maintain not less than 50 deg F (10 deg C) for 48 hours before application and continuously after until dry.
 - 3. Do not exceed 95 deg F (35 deg C) when using temporary heat sources.
- C. Ventilation: Ventilate building spaces as required to dry joint treatment materials. Avoid drafts during hot, dry weather to prevent finishing materials from drying too rapidly.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

- A. Acceptable Manufacturers; subject to compliance with requirements, provide products for each of the indicated materials by one of the listed manufacturers:
 - 1. Gypsum Board and Related Products:
 - a. CertainTeed Corporation.
 - b. Continental Building Products, Inc.
 - c. G-P Gypsum Corporation / Georgia-Pacific Company.
 - d. National Gypsum Company.
 - e. USG Corporation.

2.2 GYPSUM BOARD PRODUCTS:

- A. General:
 - 1. Lengths: Provide gypsum board of types indicated in maximum lengths available that will minimize end-to-end butt joints in each area indicated to receive gypsum board application.
 - 2. Widths: Provide gypsum board in widths of 48 inches.

- B. Gypsum Wallboard: Meeting ASTM C 1396 and as follows:
1. Types:
 - a. Regular Gypsum Board: Provide for vertical surfaces, unless otherwise indicated.
 - b. Type X or Type C Gypsum Board: Provide as required by fire-resistance-rated assemblies indicated on Drawings.
 - c. Sag-Resistant Gypsum Ceiling Board: Provide for ceiling applications.
 2. Edges: Tapered.
 3. Thickness: As indicated on drawings.
- C. Moisture and Mold Resistant Gypsum Board: Meeting ASTM C 1396, with moisture- and mold-resistant core and paper surfaces.
1. Mold Resistance: No mold growth when tested per ASTM D 3273 and having a score of 10 as rated according to ASTM D 3274.
 2. Long Edges: Tapered.
 3. Thickness: As indicated on drawings.
- D. Glass-Mat, Water-Resistant Gypsum Backing Board: (Tile Backing Board)
1. Acceptable Product; subject to compliance with requirements:
 - a. CertainTeed Corporation; Diamondback GlasRoc Tile Backer Type X.
 - b. G-P Gypsum / Georgia Pacific Company; DensShield Fireguard Tile Backer.
 - c. National Gypsum Company; Gold Bond eXP Tile Backer.
 - d. United States Gypsum Co.; Durock Brand Glass-Mat Tile Backerboard.
 2. Characteristics: Coated glass-mat, water-resistant backing panel complying with ASTM C1178-11; composed of non-combustible, water-resistant, type X special fire resistant gypsum core, surfaced with glass mats and with water-resistant acrylic coating on one surface.
 - a. Thickness: 5/8-inch.
 - b. Size: 48-inches (4-ft.) width by manufacturer's standard lengths.

2.3 STEEL FRAMING COMPONENTS FOR SUSPENDED AND FURRED CEILINGS:

- A. General: Provide components of sizes indicated but not less than that required to comply with ASTM C 754 for conditions indicated.
- B. Cast-in-Place and Post installed Anchors in Concrete: Anchors of type indicated below, fabricated from corrosion-resistant materials, with holes or loops for attaching hanger wires, and with capability to sustain, without failure, a load equal to five times that imposed by ceiling construction, as determined by testing according to ASTM E 488 conducted by a qualified independent testing agency.
1. Cast-in-place type designed for attachment to concrete forms.
 2. Expansion anchor.

- C. Powder-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hangers of type indicated, and with capability to sustain, without failure, a load equal to 10 times that imposed by ceiling construction, as determined by testing according to ASTM E 1190 conducted by a qualified independent testing agency.
- D. Wire Ties: ASTM A 641, Class 1 zinc coating, soft temper, 0.062 inch thick.
- E. Wire Hangers For Interior Ceilings: ASTM A 641, Class 1 zinc coating, soft temper, 0.162-inch diameter.
- F. Rod Hangers: Minimum 1/4-inch diameter, galvanized, threaded cold-drawn mild steel.
- G. Steel Rigid Furring Channels: ASTM C 645, hat shaped, depth of 7/8-inch, and minimum thickness of base (uncoated) metal as follows:
 - 1. Thickness: 0.0329 inch (20 gauge), unless otherwise indicated.
 - 2. Protective Coating: Manufacturer's standard corrosion-resistant coating unless indicated otherwise.

2.4 SUSPENDED DRYWALL FURRING SYSTEM:

- A. Acceptable manufacturers; subject to compliance with specified requirements:
 - 1. Armstrong World Industries, Inc.
 - 2. Chicago Metallic Corp.
 - 3. USG Interiors, Inc.
- B. Characteristics:
 - 1. Structural Classification: Meeting ASTM C635, Heavy Duty classification.
 - 2. System Performance: Suspension system components, hangers and fastening devices shall be capable of supporting loads of light fixtures, ceiling grilles and gypsum board with a maximum deflection of 1/360 of the span, tested in accord with ASTM C635.
 - 3. Material: Components fabricated from minimum 0.020-inch thickness, galvanized cold-rolled steel.
 - 4. Suspension System Components:
 - a. Main Runners and Cross Tees: Double web tees with factory punched cross tee slots, hanger holes, and interlocking end tab couplings. Tees shall be of fabrication with either wide knurled metal face flanges or capped face flanges as per manufacturer's system designed for screw attachment of gypsum board panels.
 - b. Cross Furring Channels: Manufacturer's hat-shaped section having knurled metal flange face with end tabs designed for interlocking with main runners.
 - c. Edge Tracks: Channel or angle shaped tracks in manufacturer's standard size; same material as runners and tees.

- C. Wire Hangers, Braces, and Ties: Provide wires complying with the following requirements:
1. Zinc-Coated, Carbon-Steel Wire: ASTM A 641, Class 1 zinc coating, soft temper.
 2. Size: Select wire diameter so its stress at 3 times hanger design load (ASTM C 635, Table 1, "Direct Hung") will be less than yield stress of wire, but provide not less than 0.106-inch (12-gauge) diameter wire.
- D. Accessories: Provide manufacturer's assorted clips, tees, struts, stabilizers, bracings and components to construct ceiling transitions, curves, offsets and bulkheads indicated.

2.5 TRIM ACCESSORIES:

- A. Accessories for Interior Installation: Cornerbead, edge trim, and control joints complying with ASTM C 1047 and requirements indicated below:
1. Material: Formed metal of steel sheet zinc coated by hot-dip process or rolled zinc or plastic:
 2. Shapes indicated below by reference to Fig. 1 designations in ASTM C 1047:
 - a. Cornerbead on outside corners, unless otherwise indicated.
 - b. LC-bead with both face and back flanges; face flange formed to receive joint compound. Use LC-beads for edge trim, unless otherwise indicated.
 - c. L-bead with face flange only; face flange formed to receive joint compound. Use L-bead where indicated.
 - d. U-bead with face and back flanges; face flange formed to be left without application of joint compound. Use U-bead where indicated.
 - e. One-piece control joint formed with V-shaped slot and removable strip covering slot opening.

2.6 JOINT TREATMENT MATERIALS

- A. General: Provide joint treatment materials complying with ASTM C 475 and the recommendations of both the manufacturers of sheet products and of joint treatment materials for each application indicated.
- B. Joint Tape for Gypsum Board: Paper reinforcing tape, unless otherwise indicated. Use pressure-sensitive or staple-attached, open-weave, glass-fiber reinforcing tape with compatible joint compound where recommended by manufacturer of gypsum board and joint treatment materials for application indicated.
- C. Setting-Type Joint Compounds for Gypsum Board: Factory-packaged, job-mixed, chemical-hardening powder products formulated for uses indicated.
1. Where setting-type joint compounds are indicated as a taping compound only or for taping and filling only, use formulation that is compatible with other joint compounds applied over it.
 2. For prefilling gypsum board joints, use formulation recommended by gypsum board manufacturer.

3. For filling joints and treating fasteners of exterior gypsum ceiling/soffit boards, use formulation recommended by gypsum board manufacturer.
 4. For topping compound, use sandable formulation.
- D. Drying-Type Joint Compounds for Gypsum Board: Factory-packaged vinyl-based products complying with the following requirements for formulation and intended use.
1. Ready-Mixed Formulation: Factory-mixed product.
 - a. Taping compound formulated for embedding tape and for first coat over fasteners and face flanges of trim accessories.
 - b. Topping compound formulated for fill (second) and finish (third) coats.
 - c. All-purpose compound formulated for both taping and topping compounds.

2.7 ACOUSTICAL JOINT SEALANTS

A. Acoustical Sealant:

1. Acceptable Products:
 - a. Pecora Corp., AIS-919 Acoustical and Insulation Latex Sealant.
 - b. Tremco, Inc., Acoustical Sealant.
 - c. Specified Technologies, Inc.; SpecSeal Smoke N' Sound Acoustical Caulk.
 - d. United States Gypsum Co.; SHEETROCK Acoustical Sealant.
2. Type: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 83.
 - a. Product shall effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.
 - b. Provide sealants that have a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24)

2.8 SOUND INSULATION

A. Mineral Fiber Sound Attenuation Batts:

1. Acceptable Products; subject to compliance with specified requirements:
 - a. Fibrex Insulations, Inc.; Sound Attenuation Fire Batt Insulation (SAFB)
 - b. IIG MinWool, LLC; MinWool-1200 Sound Attenuation Fire Batt.
 - c. Rockwool Manufacturing Co., Delta SA-Fire Board.
 - d. Thermafiber, Inc.; Thermafiber Sound Attenuation Fire Blankets (SAFB).
2. Type: Unfaced, mineral fiber blankets meeting ASTM C665, Type I and ASTM C612.
 - a. Density: Minimum 2.5 pcf.
 - b. Combustibility: Non-combustible when tested in accord with ASTM E136.

- c. Surface burning characteristics: Meeting flame spread and smoke developed index specified when tested in accord with ASTM E84.
- d. Flame spread index: Not less than 15.
- e. Smoke developed index: Not more than 5.
- f. Thickness: As indicated on drawings or as required to meet sound rated assembly design.
- g. Size: Manufacturer's standard widths to friction fit between framing members by lengths as required.

B. Fiberglass Sound Batts:

- 1. Acceptable Products; subject to compliance with specified requirements:
 - a. CertainTeed Corporation; CertaPro AcoustaTherm Batts.
 - b. Johns Manville Corporation/Building Insulation Division; Sound Control Batts.
 - c. Knauf Insulation; QuietTherm QT Batts.
 - d. Owens-Corning Fiberglas Corporation; Sonobatts Insulation.
- 2. Type: Unfaced, fiberglass blanket insulation meeting ASTM C665, Type I.
 - a. Surface burning characteristics: Meeting flame spread and smoke developed index specified when tested in accord with ASTM E84.
 - 1) Flame spread index: Not less than 25.
 - 2) Smoke developed index: Not more than 50.
 - b. Thickness: As indicated on drawings or as required to meet sound rated assembly design.
 - c. Size: Manufacturer's standard width equal to spacing of framing members.

2.9 MISCELLANEOUS MATERIALS

- A. General: Provide auxiliary materials for gypsum board construction that comply with referenced standards and recommendations of gypsum board manufacturer.
- B. Fasteners for Wood Framing: Provide fasteners of type, material, size, corrosion resistance, holding power, and other properties required to fasten wood framing and furring members securely to substrates involved; complying with the recommendations of gypsum board manufacturers for applications indicated.
- C. Track Fasteners: Power-driven fasteners of size and material required to withstand loading conditions imposed on shaft-wall assemblies without exceeding allowable design stress of track, fasteners, or structural substrates in which anchors are embedded.
- D. Fasteners for Gypsum Board:
 - 1. Provide nails complying with ASTM C 514, annular ring type, for fastening gypsum board to wood members. Use nails of the following lengths for attachment of specified gypsum board:
 - a. For 1/2-inch thickness boards: 1-1/4 inch length.
 - b. For 5/8-inch thickness boards: 1-3/8 inch length.

2. Provide steel drill screws complying with ASTM C 1002 for the following applications:
 - a. Fastening gypsum board to steel members less than 0.033 inch (0.84 mm) thick.
 - b. Fastening gypsum board to gypsum board.
 3. Provide steel drill screws complying with ASTM C 954 for fastening gypsum board to steel members from 0.033 to 0.112 inch (0.84 to 2.84 mm) thick.
- E. Laminating Adhesive: Special adhesive or joint compound as recommended by manufacturer for laminating gypsum panels. Use adhesives that have a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- F. Isolation Strip at Exterior Walls:
1. Asphalt-Saturated Organic Felt: ASTM D 226, Type I (No. 15 asphalt felt), nonperforated.
 2. Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8 inch (3.2 mm) thick, in width to suit steel stud size.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates to which gypsum board assemblies attach or abut, with Installer present, including hollow-metal frames, elevator hoistway door frames, cast-in anchors, and structural framing. Examine for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Examine panel products before installation. Reject panels that are wet, moisture damaged, or mold damaged.
- C. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Coordinate installation of ceiling suspension systems with installation of overhead structural assemblies to ensure that inserts and other provisions for anchorages to building structure have been installed to receive ceiling hangers that will develop their full strength and at spacing required to support ceilings.
- B. Furnish concrete inserts and other devices indicated to other trades for installation well in advance of time needed for coordination with other construction.

3.3 INSTALLING STEEL FRAMING FOR SUSPENDED AND FURRED CEILINGS

- A. Suspend ceiling hangers from building structural members and as follows:
 1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or ceiling

- suspension system. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with the location of hangers required to support standard suspension system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards.
 3. Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eyescrews, or other devices and fasteners that are secure and appropriate for substrate, and in a manner that will not cause them to deteriorate or otherwise fail.
 4. Secure angle, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eyescrews, or other devices and fasteners that are secure and appropriate for structure as well as for type of hanger involved, and in a manner that will not cause them to deteriorate or otherwise fail.
 5. Do not support ceilings directly from permanent metal forms. Furnish cast-in-place hanger inserts that extend through forms.
- B. Sway-brace suspended steel framing with hangers used for support. Comply with building code requirements for seismic bracing.
- C. Install suspended steel framing components in sizes and at spacings indicated, but not less than that required by the referenced steel framing installation standard.
1. Wire Hangers: 48 inches on center.
 2. Carrying Channels (Main Runners): 48 inches on center.
 3. Furring Channels (Furring Members): 16 inches on center.
- D. Installation Tolerances: Install steel framing components for suspended ceilings so that cross-furring or grid suspension members are level to within 1/8 inch in 12 feet as measured both lengthwise on each member and transversely between parallel members.
- E. Wire-tie or clip furring members to main runners and to other structural supports as indicated.

3.4 SUSPENDED DRYWALL FURRING SYSTEM INSTALLATION

- A. Install suspension system in accord with manufacturer's product data and ASTM C754.
- B. Space hangers at 48-inches (4-ft.) on center, maximum, in each direction. Secure to building structure by wire typing to structural framing members, fastener clip devices or inserts.
- C. Tie hanger wires wrapped minimum three time tight around itself, turning ends upwards.
- D. Install additional hangers at end of each suspension member and at each corner of lighting fixtures.

- E. Locate hangers plumb in relation to main tees and to avoid contact with insulation covering ducts and pipes. Do not pass hangers through ducts. Alter spacing of hangers or splay hangers to avoid ducts and other obstructions, but do not exceed maximum allowable ceiling areas to be supported by each hanger. Offset horizontal forces of splayed hangers by counter-splaying or bracing. Splay wires no more than 5-inches in 4-ft. vertical drop.
- F. Space main tees at 48-inches (4-ft.) on center, maximum perpendicular to structural framing. Space cross tees at 2-ft. (24-inches) on center., perpendicular to main tees to form 24-inch by 48-inch (2-ft by 4-ft) grid system.
- G. Level and square suspension system within specified tolerances.
- H. Where grid system exists in an unrestrained condition, brace back to building structure using hanger wire, main tee or carrying channel braces spaces at 48-inches (4-ft.) on center, maximum.
- I. Construct offsets, bulkheads and ceiling transitions using manufacturer's clips, struts, bracing and devices designed to provide for a secure rigid and stable installation.
- J. Install edge tracks where suspension components intersects with vertical surfaces. Attach to substrates with mechanical fasteners. Cut suspension members as required to fit into tracks.
- K. Do not load suspension system to exceed specified deflection limit.

3.5 APPLYING AND FINISHING GYPSUM BOARD, GENERAL:

- A. Gypsum Board Application and Finishing Standards: Install and finish gypsum panels to comply with ASTM C 840 and GA-216.
- B. Install sound insulation , where indicated, prior to installing gypsum panels unless insulation is readily installed after panels have been installed on one side. Refer to the "Sound Insulation" article in this specification section.
- C. Install ceiling board panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in the central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.
- D. Install gypsum panels with face side out. Do not install imperfect, damaged, or damp panels. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.
- E. Locate both edge or end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Avoid joints other than control joints at corners of framed openings where possible.
- F. Attach gypsum panels to framing provided at openings and cutouts.

- G. Spot grout hollow metal door frames for solid-core wood doors, hollow metal doors, and doors over 32-inches (2'-8") wide. Apply spot grout at each jamb anchor clip and immediately insert gypsum panels into frames.
- H. Form control and expansion joints at locations indicated and as detailed, with space between edges of adjoining gypsum panels, as well as supporting framing behind gypsum panels.
- I. Cover both faces of wood stud partition framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases that are braced internally.
 - 1. Except where concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.
 - 2. Fit gypsum panels around ducts, pipes, and conduits.
 - 3. Where partitions intersect open concrete coffers, concrete joists, and other structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by coffers, joists, and other structural members; allow 1/4-inch to 3/8-inch wide joints to install sealant.
- J. Isolate perimeter of nonload-bearing gypsum board partitions at structural abutments, except floors, as detailed. Provide 1/4-inch to 1/2-inch wide spaces at these locations and trim edges with U-bead edge trim where edges of gypsum panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- K. Where sound insulated gypsum board assemblies are indicated, seal construction at perimeters, behind control and expansion joints, openings, and penetrations with a continuous bead of acoustical sealant including a bead at both faces of the partitions. Comply with ASTM C 919 and manufacturer's recommendations for location of edge trim and closing off sound-flanking paths around or through gypsum board assemblies, including sealing partitions above acoustical ceilings.
- L. Space fasteners in gypsum panels according to referenced gypsum board application and finishing standard and manufacturer's recommendations.
- M. Space fasteners in panels that are tile substrates a maximum of 8-inches on center.

3.6 GYPSUM BOARD APPLICATION METHODS

- A. Single-Layer Application: Install gypsum wallboard panels as follows:
 - 1. On ceilings, apply gypsum panels prior to wall/partition board application to the greatest extent possible and at right angles to framing, unless otherwise indicated.
 - 2. On partitions/walls, apply gypsum panels vertically (parallel to framing), unless otherwise indicated, and provide panel lengths that will minimize end joints.
 - a. Stagger abutting end joints not less than one framing member in alternate courses of board.
 - b. At high walls, install panels horizontally.
- B. Multilayer Application on Partitions/Walls: Apply gypsum board indicated for base

layers and gypsum wallboard face layers vertically (parallel to framing) with joints of base layers located over stud or furring member and face-layer joints offset at least one stud or furring member with base-layer joints. Stagger joints on opposite sides of partitions.

- C. Single-Layer Fastening Methods: Apply gypsum panels to supports attached with specified fasteners.
- D. Multilayer Fastening Methods: Apply base layers of gypsum panels and face layer to base layers as follows:
 - 1. At fire rated partitions attach both base layers and face layers separately to supports with specified fasteners.
 - 2. At all other locations, attach base layers with specified fasteners and face layer with adhesive and supplementary fasteners.
- E. Direct-Bonding to Substrate: Where gypsum panels are indicated as directly adhered to a substrate (other than studs, joists, furring members, or base layer of gypsum board), comply with gypsum board manufacturer's recommendations, and temporarily brace or fasten gypsum panels until fastening adhesive has set.
- F. Tile Backing Board Application: Install glass-mat, water-resistant gypsum backing board as a substrate to receive ceramic wall tile and similar rigid applied wall finishes. Comply with tile installation method specified in Division 9 Section "Tiling" for metal framing and gypsum backing board.
 - 1. Comply with manufacturer's written installation instructions and install at locations indicated to receive tile.
 - 2. Install with 1/4-inch gap where panels abut other construction or penetrations.

3.7 INSTALLING TRIM ACCESSORIES

- A. General: For trim accessories with back flanges, fasten to framing with the same fasteners used to fasten gypsum board. Otherwise, fasten trim accessories according to accessory manufacturer's directions for type, length, and spacing of fasteners.
- B. Install cornerbead at external corners.
- C. Install edge trim where edge of gypsum panels would otherwise be exposed. Provide edge trim type with face flange formed to receive joint compound, except where other types are indicated.
 - 1. Install LC-bead where gypsum panels are tightly abutted to other construction and back flange can be attached to framing or supporting substrate.
 - 2. Install L-bead where edge trim can only be installed after gypsum panels are installed.
 - 3. Install U-bead where indicated.
- D. Install control joints according to ASTM C 840 and manufacturer's recommendations and in specific locations approved by Architect for visual effect.

3.8 FINISHING GYPSUM BOARD ASSEMBLIES

- A. General: Treat gypsum board joints, interior angles, flanges of cornerbead, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration.
- B. Prefill open joints, rounded or beveled edges, and damaged areas using setting-type joint compound.
- C. Apply joint tape over gypsum board joints, except those with trim accessories having flanges not requiring tape.
- D. Levels of Gypsum Board Finish: Finish panels to levels indicated below, according to ASTM C 840, for locations indicated.
 - 1. Level 1 for ceiling plenum areas and concealed areas, unless a higher level of finish is required for fire-resistance-rated assemblies and sound-rated assemblies. Embed tape at joints.
 - 2. Level 2 where gypsum board panels form substrates for ceramic tile and where indicated. Embed tape and apply separate first coat of joint compound to tape, fasteners, and trim flanges.
 - 3. Level 4 for gypsum board to receive flat paint finish, at surfaces that will be exposed to view, and for all other locations not otherwise specified. Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges.
 - 4. Level 5 for gypsum board to receive eggshell, semi-gloss or gloss paint finish, including epoxy paints. Embed tape and apply separate first, fill, and finish coats of joint compound to tape, fasteners, and trim flanges, and apply skim coat of joint compound over entire surface
- E. Glass-Mat, Water-Resistant Gypsum Tile Backing Board: Finish according to manufacturer's written instructions.

3.9 SOUND INSULATION

- A. Install to gypsum drywall partitions after first layer of gypsum board is installed.
- B. Install sound insulation with snug joints in accord with manufacturer's instructions to secure insulation in place.
- C. Where installed above ceilings, lay insulation flat. Install unfaced batts over suspended ceilings at partitions in width that extends on either side of partition as indicated.

3.10 FIELD QUALITY CONTROL

- A. Above-Ceiling Observation: Architect will conduct an above-ceiling observation prior to installation of gypsum board ceilings and report any deficiencies in the Work observed.
 - 1. Notify Architect one week' in advance of the date and the time when the Project, or part of the Project, will be ready for an above-ceiling observation.

2. Prior to notifying Architect, complete the following in areas to receive gypsum board ceilings:
 - a. Installation of 80-percent of lighting fixtures, powered for operation.
 - b. Installation, insulation, and leak and pressure testing of water piping systems.
 - c. Installation of air duct systems.
 - d. Installation of air devices.
 - e. Installation of mechanical system control air tubing.
 - f. Installation of ceiling support framing.
- B. Do not proceed with installation of gypsum board to ceiling support framing until deficiencies have been corrected.

3.11 CLEANING AND PROTECTION

- A. Promptly remove any residual joint compound from adjacent surfaces.
- B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- C. Remove and replace panels that are wet, moisture damaged, or mold damaged.
 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, and irregular shape.
 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.
- D. Provide final protection and maintain conditions, in a manner acceptable to Installer, that ensure gypsum board assemblies are without damage or deterioration at the time of Substantial Completion.

END OF GYPSUM BOARD ASSEMBLIES

**SECTION 102813
TOILET ACCESSORIES**

ADDENDUM #1

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY:

- A. Section Includes: Toilet room accessories. The extent of toilet and other accessory items are indicated on the Drawings, and include the following:
1. Public-use washroom accessories.
 2. Warm-air dryers.
 3. Childcare accessories.
 4. Underlavatory guards.
 5. Custodial accessories.
- B. Related Sections:
1. Division 4 Section – "Unit Masonry."
 2. Division 9 Section – "Gypsum Board Assemblies."
 3. Division 10 Section - "Toilet Compartments."

1.3 SUBMITTALS:

- A. Product Data: Submit for each toilet accessory item specified, including details of construction relative to materials, dimensions, gauges, profiles, method of mounting, specified options, and finishes.
- B. Product Schedule: Indicate types, quantities, sizes, and installation locations by room of each accessory required.
1. Identify locations using room designations indicated.
 2. Identify products using same designations indicated on Drawings.
- C. Setting Drawings: Where cutouts are required in other work, provide templates, substrate preparation instructions, and directions for preparing cutouts and for installation of anchorage devices.
- D. Maintenance Data: Submit toilet accessories manufacturers to include in maintenance manuals. Submit as part of contract closeout documents.

1.4 QUALITY ASSURANCE:

- A. Single-Source Limitations: Provide products of same manufacturer for each type of accessory unit and for units exposed to view in same areas, unless otherwise acceptable to Architect.
- B. Regulatory Requirements: Comply with applicable provisions of the following regulations and standards for toilet and shower accessories installed at locations designated as accessible.
 - 1. Code of Federal Regulations (CFR), Americans with Disabilities Act (ADA), 2010 ADA Standards for Accessible Design.
 - 2. ICC/ANSI A117.1, "Accessible and Usable Buildings and Facilities.
- C. Product Certification: Electric hand dryers shall be ETL listed by Intertek Group, plc or UL listed by Underwriters Laboratories, Inc. in conformance with UL 507 standard.
- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application

1.5 COORDINATION:

- A. Toilet Accessories: Coordinate accessory locations, installation, and sequencing with other work to avoid interference and to assure proper installation, operation, adjustment, cleaning, and servicing of toilet accessory items.
- B. Grab Bar Anchor Plates: Coordinate installation of concealed anchor plates with drywall and masonry wall construction for mounting of grab bars.
- C. Inserts and Anchorages: Furnish inserts and anchoring devices that must be set in concrete or built into masonry; coordinate delivery with other work to avoid delay.

1.6 WARRANTIES:

- A. Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to replace mirrors that develop visible silver spoilage defects and that fail in materials or workmanship within warranty period of not less than Fifteen (15) years from date of Substantial Completion.
- B. Hand Dryer Warranty: Manufacturer's standard form covering defects in materials and workmanship under normal use. Manufacturer agrees to replace or repair defective parts within warranty period of not less than Five (5) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

- A. Acceptable Manufacturers; subject to compliance with specified requirements:
 - 1. American Specialties, Inc. (ASI).
 - 2. Bobrick Washroom Equipment, Inc.

3. Bradley Corporation.

2.2 BASIC MATERIALS AND FINISHES:

- A. Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 22-gauge (.034-inch) minimum thickness, unless otherwise indicated.
- B. Brass: Leaded and unleaded, flat products, ASTM B 19; rods, shapes, forgings, and flat products with finished edges, ASTM B 16, Castings, ASTM B-30.
- C. Sheet Steel: Cold-rolled, commercial quality ASTM A 366, 20-gauge (.040-inch) minimum, unless otherwise indicated. Surface preparation and metal pretreatment as required for applied finish.
- D. Galvanized Steel Sheet: ASTM A 527, G60.
- E. Chromium Plating: Nickel and chromium electro-deposited on base metal, ASTM B 456, Type SC 2.
- F. Galvanized Steel Mounting Devices: ASTM A 153, hot-dip galvanized after fabrication.
- G. Fasteners: Screws, bolts, and other devices of same material as accessory unit or of galvanized steel where concealed.
- H. Keys: Unless otherwise indicated, provide universal keys for access to toilet accessory units requiring internal access for servicing and resupply. Provide minimum of 6-keys to Owner's representative and obtain receipt.

2.3 PUBLIC-USE WASHROOM ACCESSORIES:

- A. Toilet Tissue Dispenser (Standard Roll): TA01.
 - 1. Basis-of-Design Product: Bobrick B-2840.
 - 2. Description: Double-roll dispenser with utility shelf.
 - a. Mounting: Surface mounted.
 - b. Operation: Non-control delivery with theft-resistant spindle.
 - c. Capacity: Up to 5 1/2-inch diameter tissue rolls.
 - d. Material and Finish: Stainless steel, No. 4 satin finish, with high impact, black, polystyrene spindles.
- B. Soap Dispenser, Foam Type, Manual: TA16.**
 - 1. Basis-of-Design Product: Tork Elevation Push Foam Soap Dispenser – Plastic Black**
 - 2. Description: Push Foam Soap Dispenser**
 - a. Mounting: Wall mount, surface.**
 - b. Capacity: 1,000 mL**
 - c. Materials: Plastic, Black**
 - d. Features: Keyed Operation**

- e. **Accessories: Tork Extra Mild Foam Soap Refill – 1,000 mL**
 - f. **Note: Provide 2 refill bags for each unit.**
- C. Soap Dispenser, Liquid Soap Type, Automatic: TA18**
- 1. **Basis-of-Design Product: Sloan Deck Mounted Foam Soap Dispenser ESD-500**
 - 2. **Description: Sensor Activated Foam Soap Dispenser**
 - a. **Mounting: Deck Mounted**
 - b. **Capacity: 1,500 mL**
 - c. **Materials: Polished Chrome**
 - d. **Accessories: ESD-325 non-scented, non-colored foam soap**
- D. Grab Bar (short): TA20.**
- 1. Basis-of-Design Product: Bobrick B-6806 × 18.
 - 2. Mounting: Flanges with concealed fasteners.
 - 3. Material and Finish:
 - a. Material: Stainless steel, 0.05 inch thick.
 - b. Finish: Smooth, No. 4 satin finish on ends and slip-resistant texture in grip area.
 - 4. Outside Diameter: 1-1/2 inches.
 - 5. Configuration and Length: Straight, 18 inches long.
- E. Grab Bar (medium): TA21.**
- 1. Basis-of-Design Product: Bobrick B-6806 × 36.
 - 2. Mounting: Flanges with concealed fasteners.
 - 3. Material and Finish:
 - a. Material: Stainless steel, 0.05 inch thick.
 - b. Finish: Smooth, No. 4 satin finish on ends and slip-resistant texture in grip area.
 - 4. Outside Diameter: 1-1/2 inches.
 - 5. Configuration and Length: Straight, 36 inches long.
- F. Grab Bar (long): TA22.**
- 1. Basis-of-Design Product: Bobrick B-6806 × 42.
 - 2. Mounting: Flanges with concealed fasteners.
 - 3. Material and Finish:
 - a. Material: Stainless steel, 0.05 inch thick.
 - b. Finish: Smooth, No. 4 satin finish on ends and slip-resistant texture in grip area.
 - 4. Outside Diameter: 1-1/2 inches.
 - 5. Configuration and Length: Straight, 42 inches long.
- G. Mirror, Framed, without Shelf: TA23.**
- 1. Basis-of-Design Product: Bobrick B-165-2436.

2. Frame: Stainless steel channel.
3. Corners: Mitered, welded, and ground smooth.
4. Hangers: Produce rigid, tamper and theft-resistant installation, using one-piece, galvanized steel, wall hanger device with spring action locking mechanism to hold mirror unit in position with no exposed screws or bolts.
5. Size: 24 inches wide × 36 inches high.

H. Sanitary Napkin Disposal Unit, Surface-mount: TA29.

1. Basis-of-Design Product: Bobrick B-254.
2. Mounting: Surface mounted.
3. Door or Cover: Self-closing disposal opening cover and hinged face panel with tumbler lockset.
4. Receptacle: Removable.
5. Material and Finish: Stainless steel, No. 4.

2.4 WARM AIR DRYERS:

A. Warm Air Dryer: TA50.

1. Basis-of-Design Product: Bobrick B-7128-115V.
2. Mounting: Surface mounted.
3. Operation: Electronic sensor activated with timed power cut-off switch.
4. Operation Time: 30 to 40 seconds.
5. Cover Material and Finish: Stainless steel, No. 4 satin finish.

2.5 CHILDCARE ACCESSORIES:

A. Diaper-Changing Station: TA55.

1. Basis-of-Design Product: Koala KB110-SSWM.
2. Description: Horizontal unit that opens by folding down from stored position and with child-protection strap.
 - a. Engineered to support a minimum of 250-lb static load when opened.
 - b. Mounting: Surface mounted, with unit projecting not more than 4 inches from wall when closed.
 - c. Operation: By pneumatic shock-absorbing mechanism.
 - d. Material and Finish: Stainless steel, No. 4 satin finish.
 - e. Liner Dispenser: Built in.

2.6 UNDERLAVATORY GUARDS:

A. Underlavatory Guard: TA58.

1. Basis-of-Design Product: Plumberex Soft Guard Plus.
2. Description: Insulating pipe covering for supply and drain piping assemblies that prevent direct contact with and burns from piping; allow service access without removing coverings.

3. Material and Finish: Antimicrobial, molded plastic, white.

2.7 CUSTODIAL ACCESSORIES:

- A. Mop and Broom Holder: TA60.
 1. Basis-of-Design Product: Bobrick B-224 × 36.
 2. Description: Unit with shelf, hooks, holders, and rod suspended beneath shelf.
 3. Length: 36 inches.
 4. Hooks: Three.
 5. Mop/Broom Holders: Four, spring-loaded, rubber hat, cam type.
 6. Material and Finish: Stainless steel, No. 4 satin finish.
 - a. Shelf: Not less than nominal 0.05-inch-thick stainless steel.
 - b. Rod: Approximately 1/4-inch-diameter stainless steel.

2.8 FABRICATION:

- A. Manufacturer's Identification: Only a maximum 1-1/2-inch diameter, unobtrusive stamped logo of manufacturer, as approved by Architect, is permitted on an inconspicuous face of toilet or bath accessory units. Identification mark shall be located on either interior surface not exposed to view or back surface, provide additional identification by means of either a printed, waterproof label or a stamped nameplate, indicating manufacturer's name and product model number.
- B. Surface-Mounted Toilet Accessories: Fabricate units with tight seams and joints, exposed edges rolled. Hang doors or access panels with continuous stainless steel piano hinge. Provide concealed anchorage wherever possible.
- C. Recessed Toilet Accessories: Fabricate units of all welded construction, without mitered corners. Hang doors or access panels with full-length stainless steel piano hinge. Provide anchorage that is fully concealed when unit is closed.
- D. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six (6) keys to Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION:

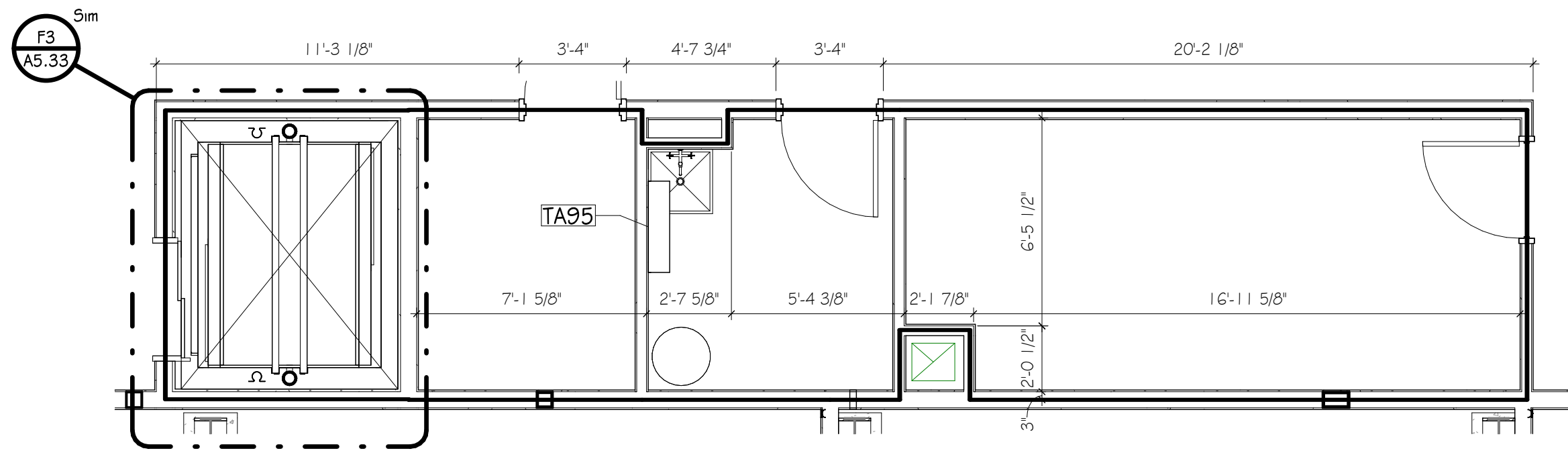
- A. Install toilet accessory units according to manufacturers' current written instructions, using fasteners appropriate to substrate and recommended by manufacturer of unit.
- B. Use concealed fastening methods for attachment of accessories unless otherwise specified by product types employing exposed fastener installations.
- C. Install units plumb and level, firmly anchored in locations and at heights indicated.
- D. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to ASTM F 446.

1. Anchor grab bar to metal stud partitions using manufacturer's minimum 12-gauge (0.109-inch) thickness by 3-inches width steel anchor plates tapped to receive machine screws. Anchor plates shall be of continuous length required to facilitate attachment of grab bars, spanning between studs.
 - a. Attach anchor plates to studs at grab bar mounting heights, using self-tapping sheet metal screws or by welding.
 - b. Where grab bar mounting flanges require attachment at different walls or at vertical or angled positions, provide anchor plates of lengths to span between studs at each flange location.
 - c. Secure grab bars to anchor plates using 1/4-inch diameter stainless steel machine screws.
 2. Mount grab bars to masonry and concrete walls using 1/4-inch diameter stainless steel machine screws and expansions shields.
- E. Make electrical connections to hand dryers complying with requirements specified in Division 26-Electrical sections.

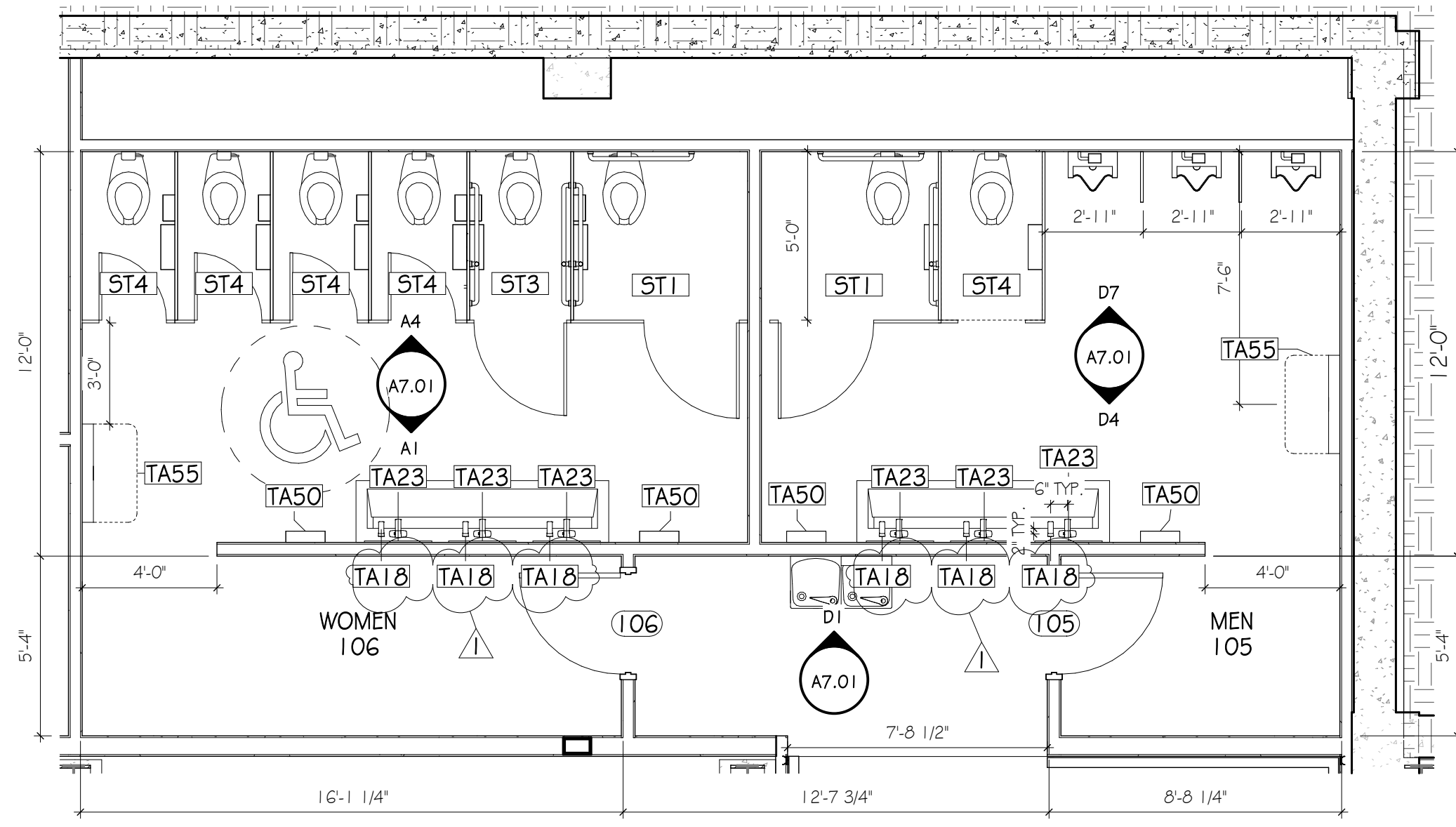
3.2 ADJUSTING AND CLEANING:

- A. Adjust toilet accessories for proper operation and verify that mechanisms function smoothly. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings and films prior to cleaning.
- C. Clean and polish all exposed surfaces in strict accordance with manufacturer's recommendations after removing temporary labels and protective coatings.

END OF SECTION 102813



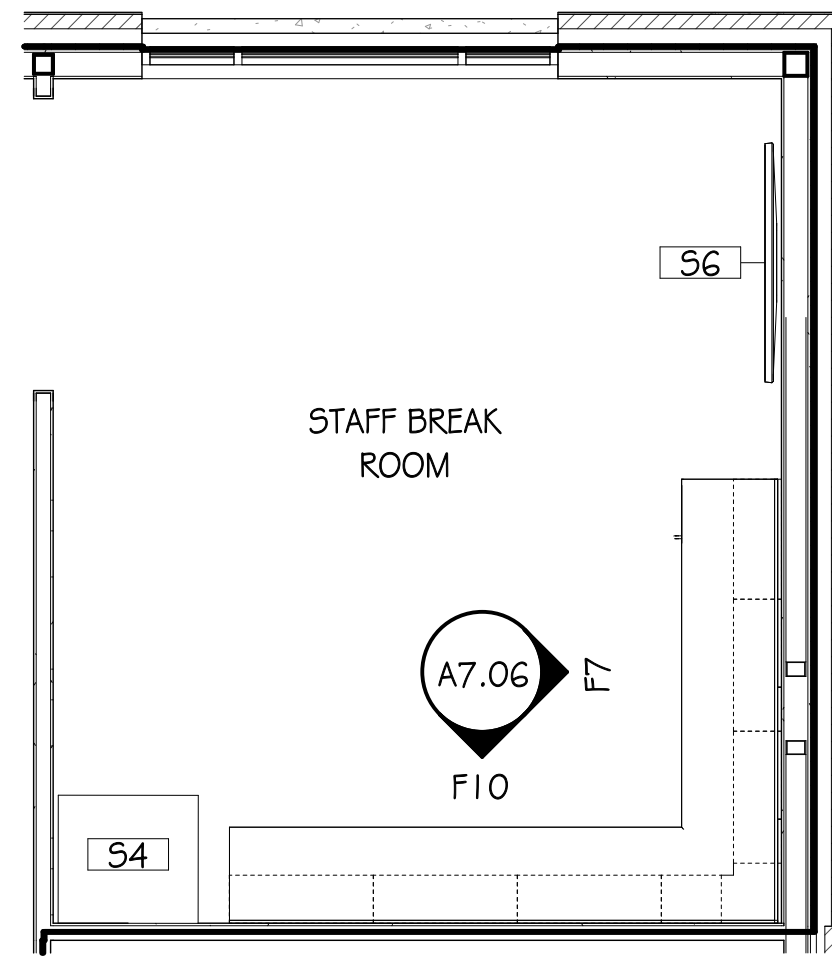
H1 FIRST FLOOR - BUILDING SUPPORT
SCALE: 1/4" = 1'-0"



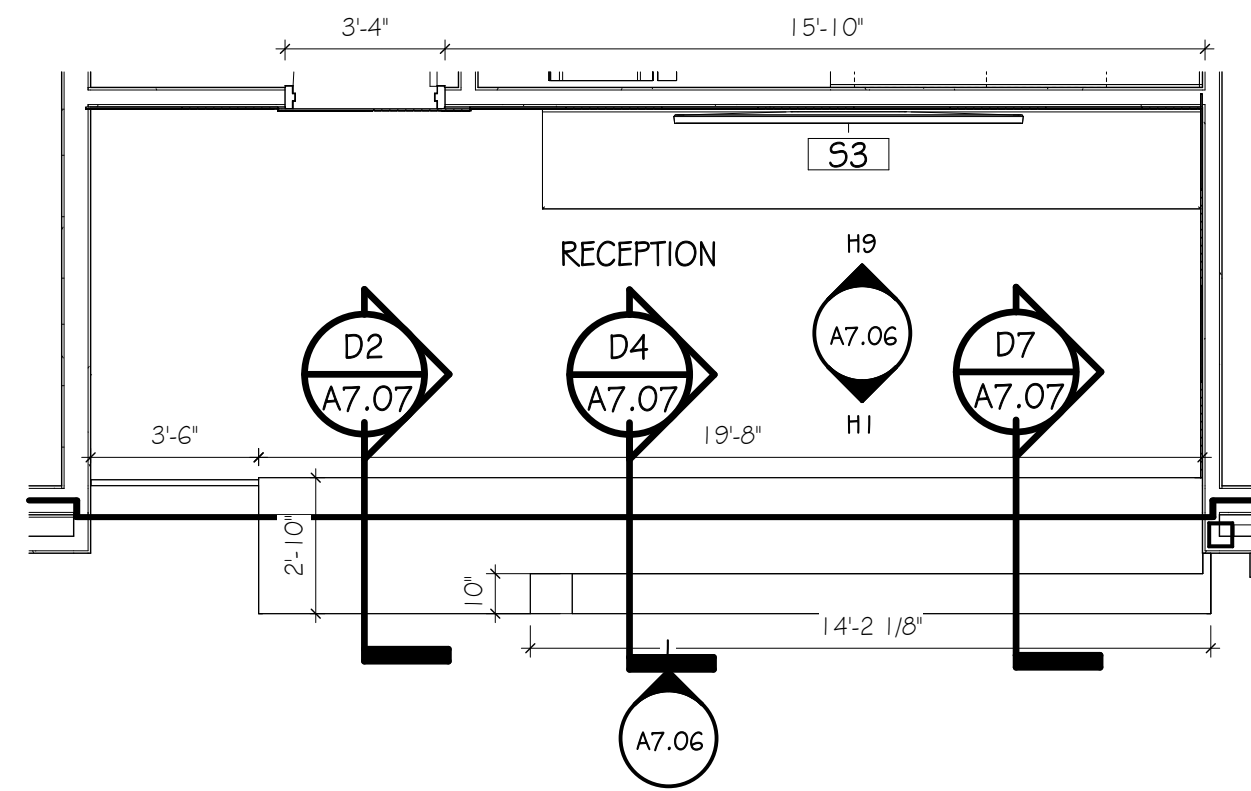
H6 ENLARGED PLAN - 106 & 105
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE		
ACCESSORY	DESCRIPTION	Comments
TA01	DOUBLE TOILET TISSUE DISPENSER	CFCI
TA16	WALL MOUNTED SOAP DISPENSER - MANUALLY OPERATED	CFCI
TA18	SLOAN DECK-MOUNTED FOAM SOAP DISPENSER	CFCI
TA21	36" HORIZONTAL GRAB BAR	CFCI
TA22	42" HORIZONTAL GRAB BAR	CFCI
TA23	MIRROR	CFCI
TA29	5ANITARY NAPKIN RECEPTACLE	CFCI
TA40	SHOWER ROD - EXTRA HEAVY DUTY, STRAIGHT	CFCI
TA45	URINAL PARTITION SCREEN	CFCI
TA50	ADA COMPLIANT HAND DRYER	OFCI
TA55	BABY CHANGING STATION	CFCI
TA56	UNDERLAVATORY GUARD	CFCI
TA95	MOP & BROOM HOLDER WITH UTILITY SHELF	CFCI

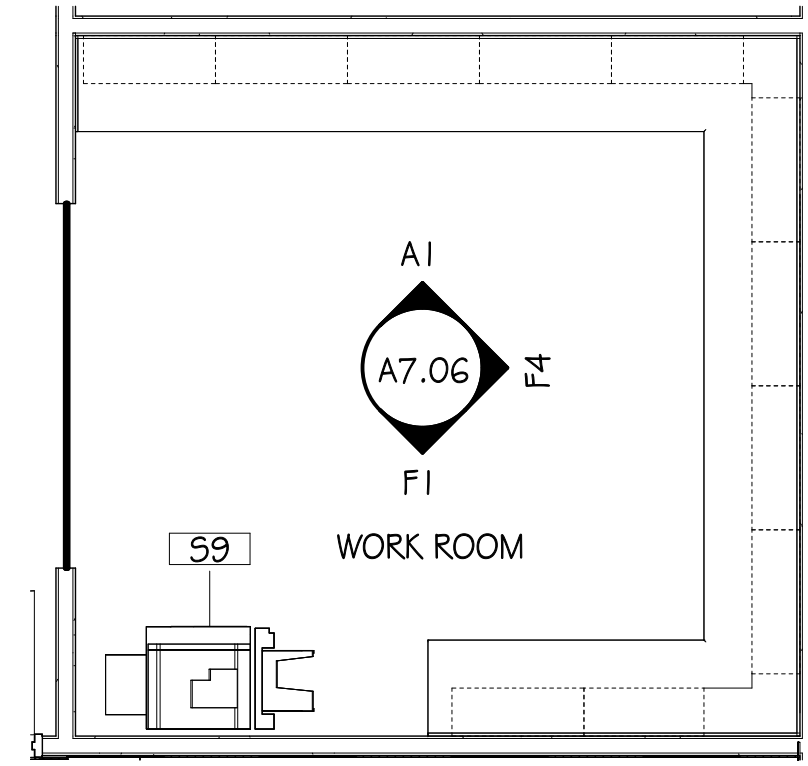
SPECIALTY EQUIPMENT SCHEDULE		
ID	DESCRIPTION	OFCI/CFCI
FEC	SURFACE MOUNTED FIRE EXTINGUISHER CABINET	
S1	Wall Pad	CFCI
S3	98" TV, SEE INTERIOR ELEVATION FOR ELEC. COORDINATION	CFCI
S4	REFRIGERATOR	CFCI
S5	ADA COMPLIANT ICE MAKER	CFCI
S6	65" TV, SEE INTERIOR ELEVATION FOR ELEC. COORDINATION	CFCI
S7	4K SMART TV, SEE INTERIOR ELEVATION FOR ELEC. COORDINATION	CFCI
S9	MICROWAVE	CFCI



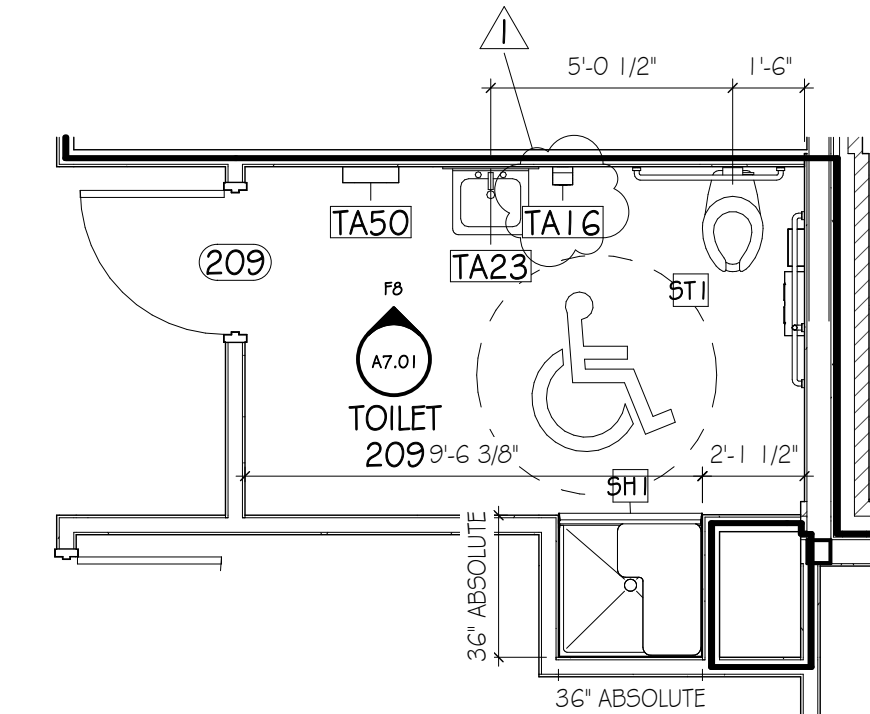
E1 ENLARGED PLAN - BREAK ROOM
SCALE: 1/4" = 1'-0"



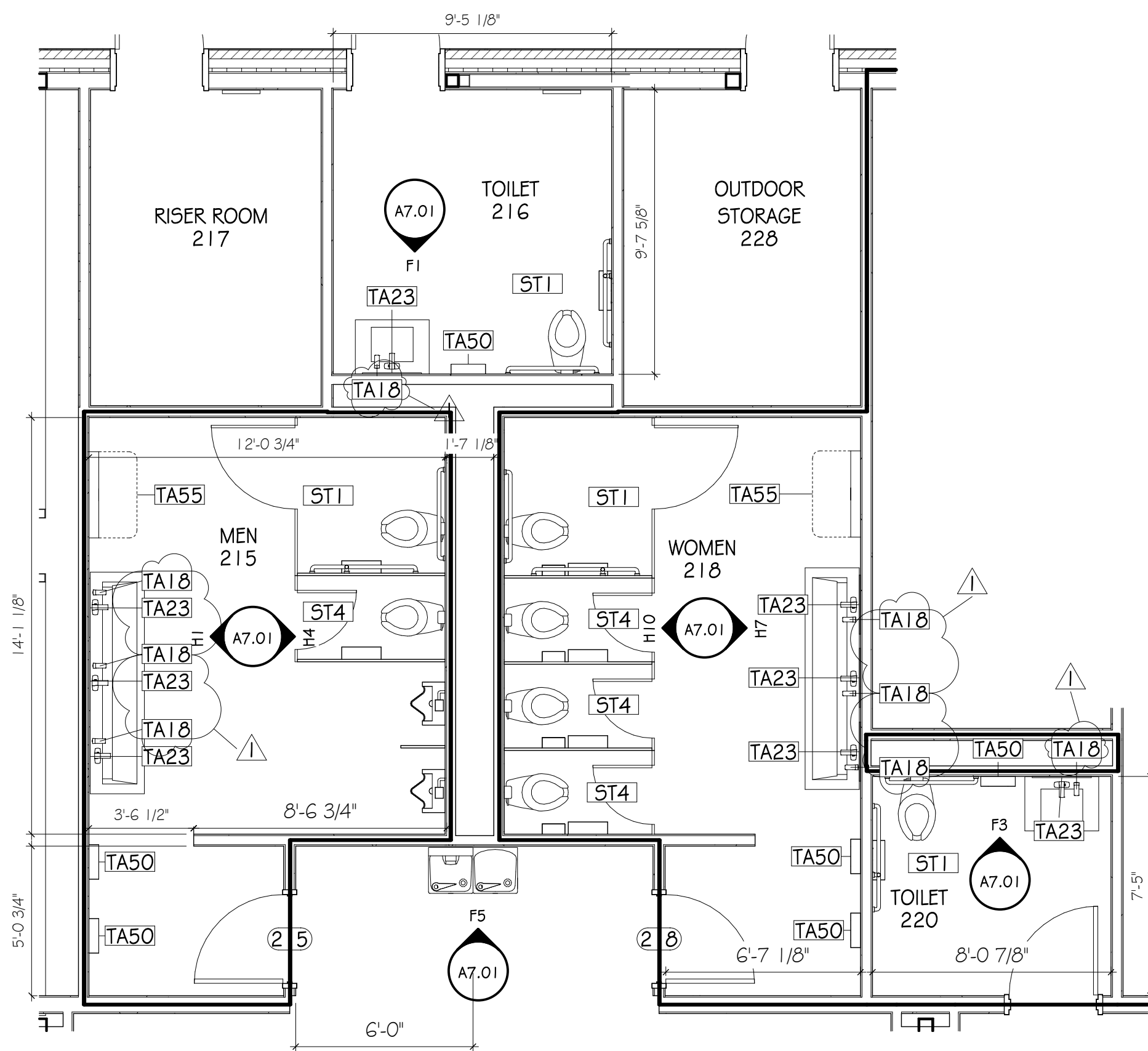
E4 ENLARGED PLAN - RECEPTION
SCALE: 1/4" = 1'-0"



E7 ENLARGED PLAN - WORK ROOM 211
SCALE: 1/4" = 1'-0"



E10 ENLARGED PLAN - TOILET 209
SCALE: 1/4" = 1'-0"



A1 ENLARGED PLAN - 215, 216, 218, & 220
SCALE: 1/4" = 1'-0"

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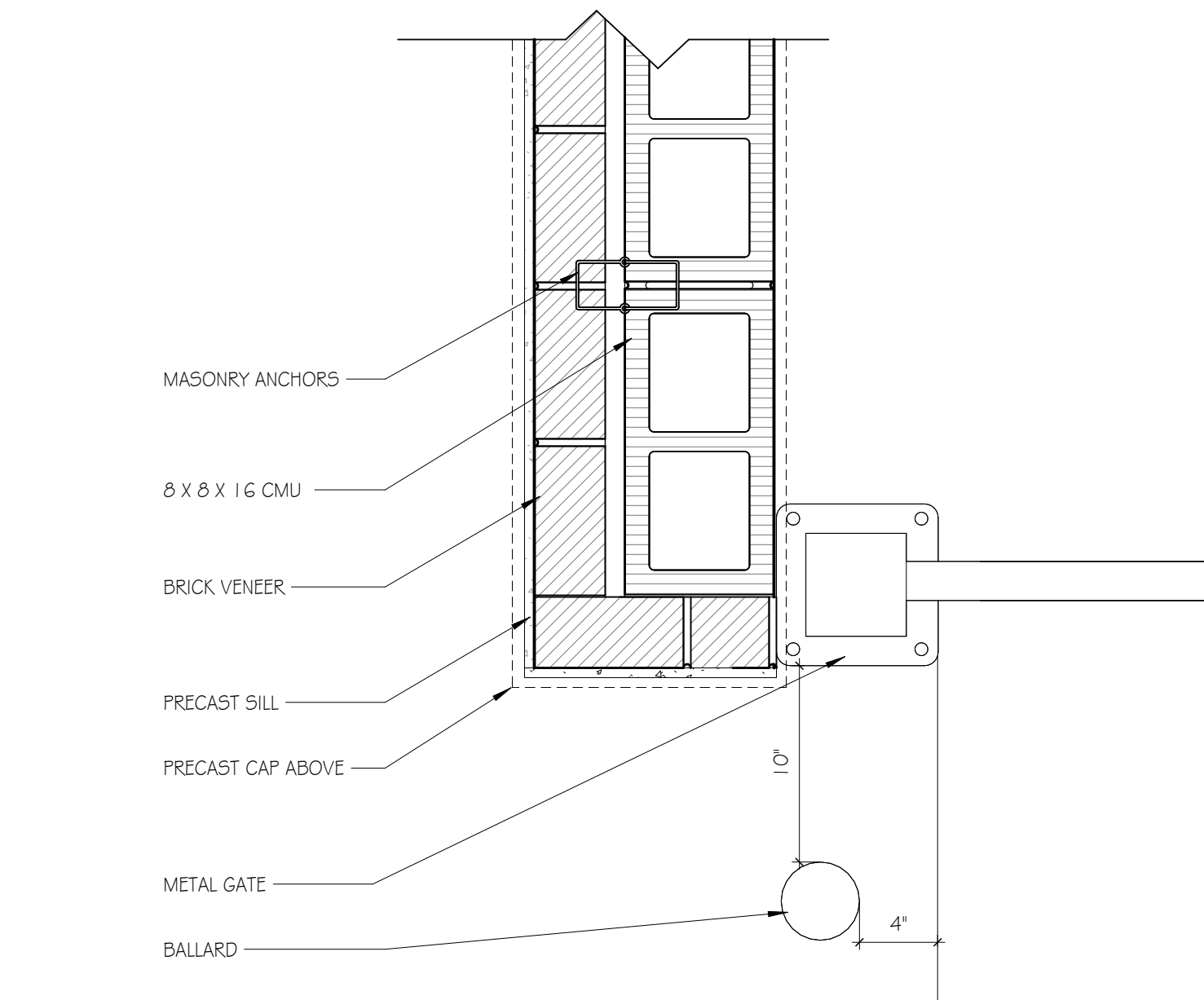
ISSUE	DATE
DESIGN DEVELOPMENT	07/29/2024
CONSTRUCTION DOCUMENTS	12/09/2024
ADDENDUM #1	1/9/2025

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CHECKED BY: MARK V.

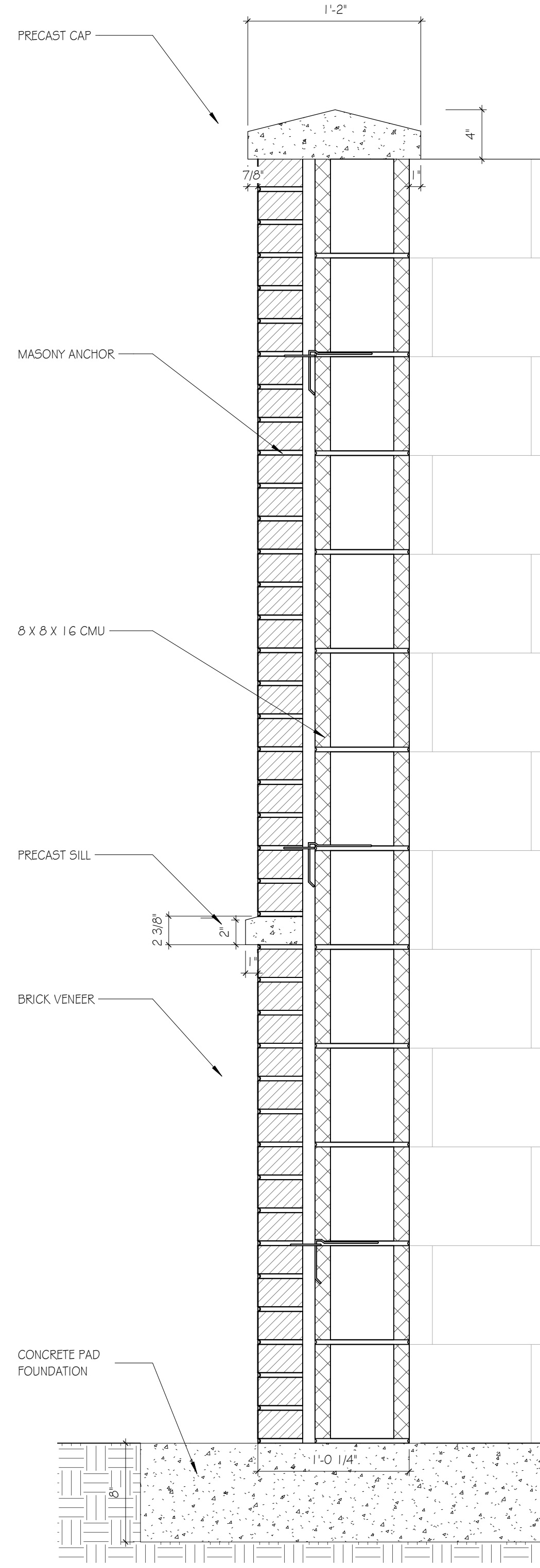
BRISCOE PARK
2500 SAWYER PKWY SW, SNELLVILLE,
GA 30078
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ENLARGED PLANS

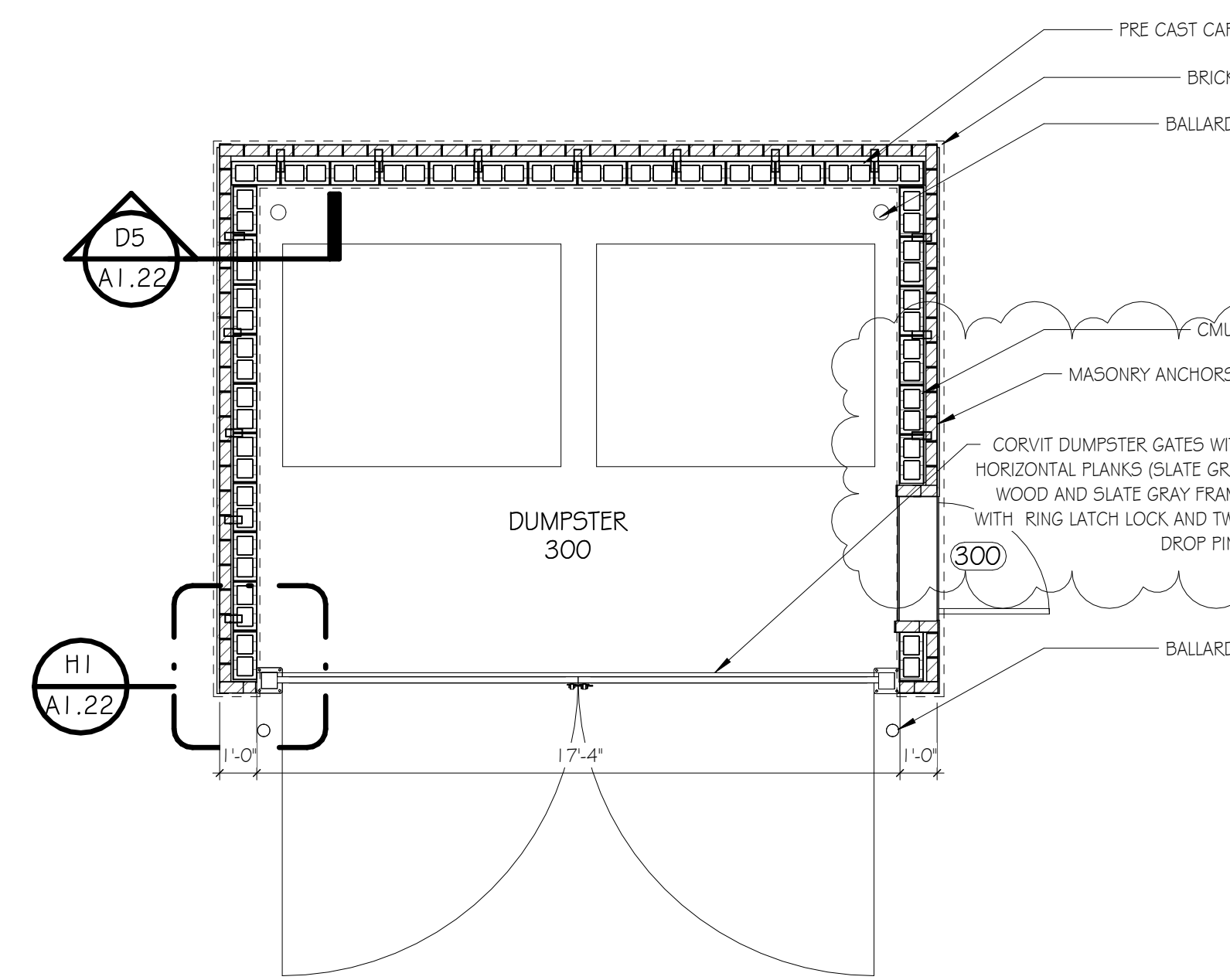
A1.11
sheet of



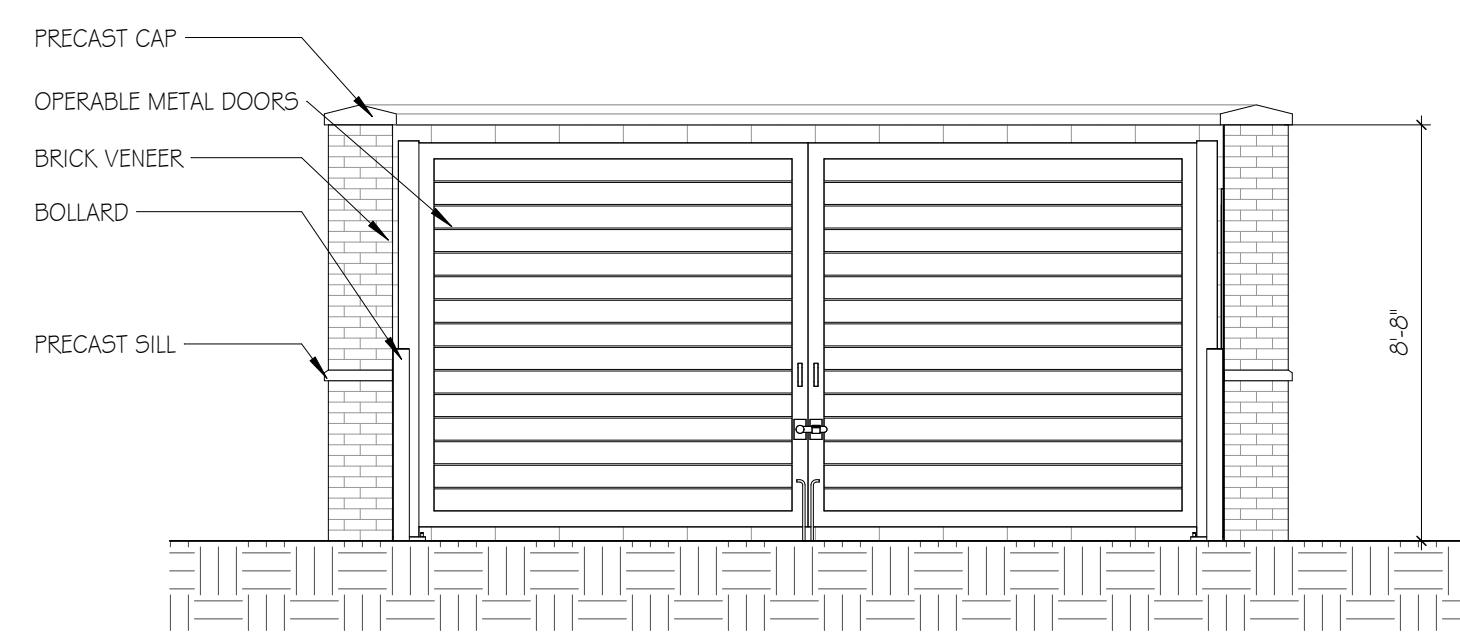
H1 DUMPSTER ENCLOSURE GATE PLAN
H1 DETAIL
 SCALE: 1 1/2" = 1'-0"



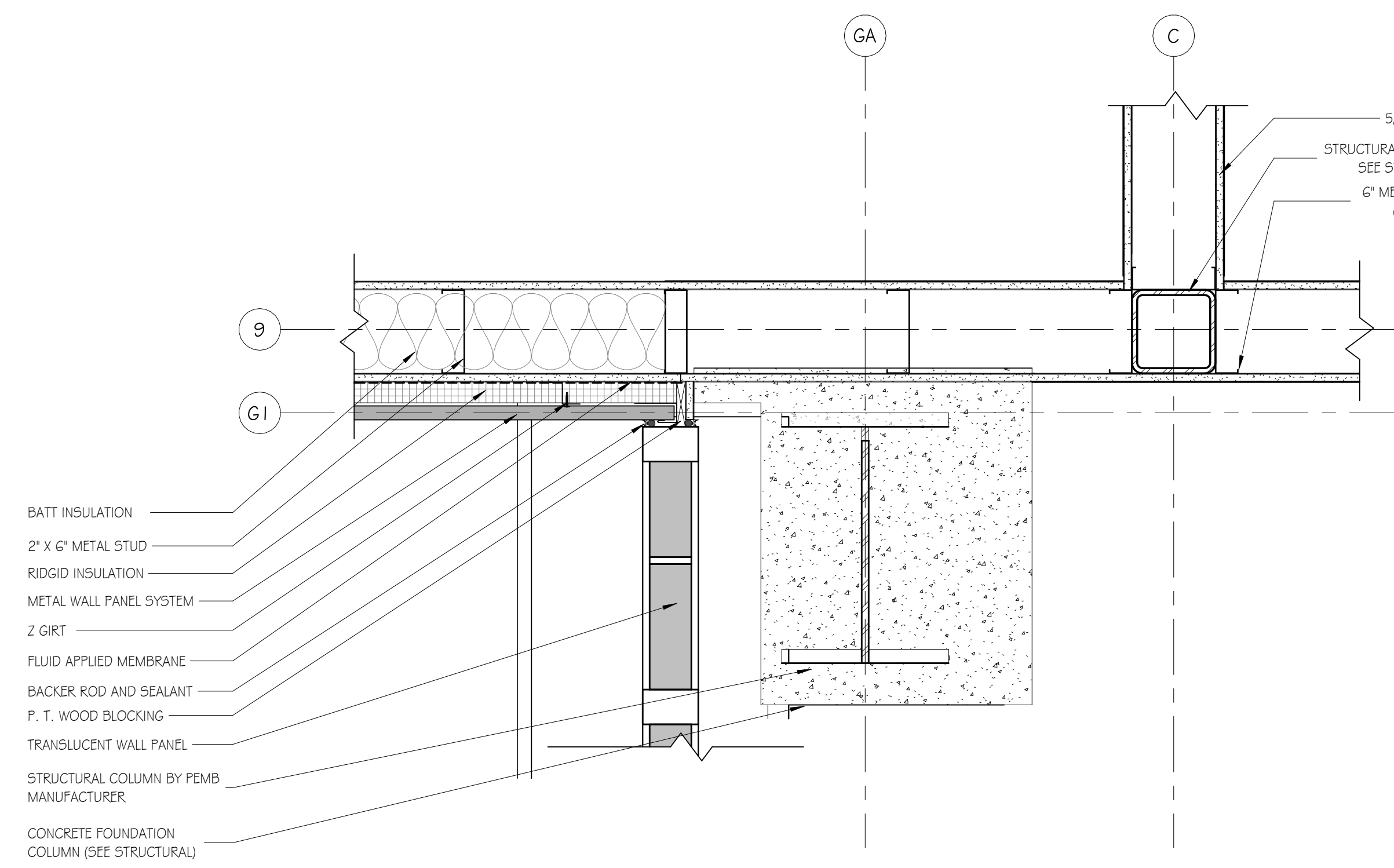
D5 DUMPSET ENCLOSURE-SECTION
 SCALE: 1 1/2" = 1'-0"



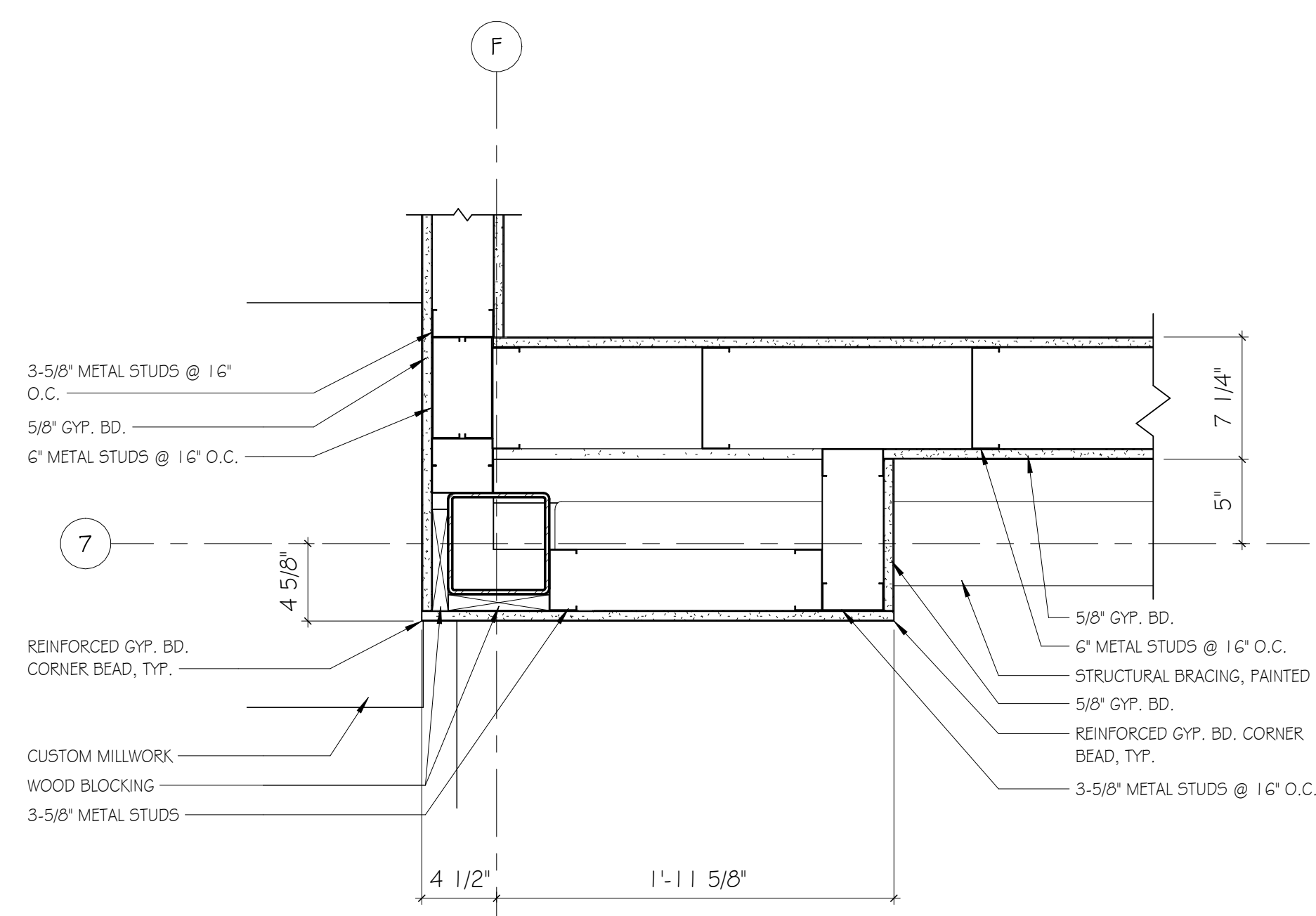
H8 DUMPSTER ENCLOSURE PLAN
 SCALE: 1/4" = 1'-0"



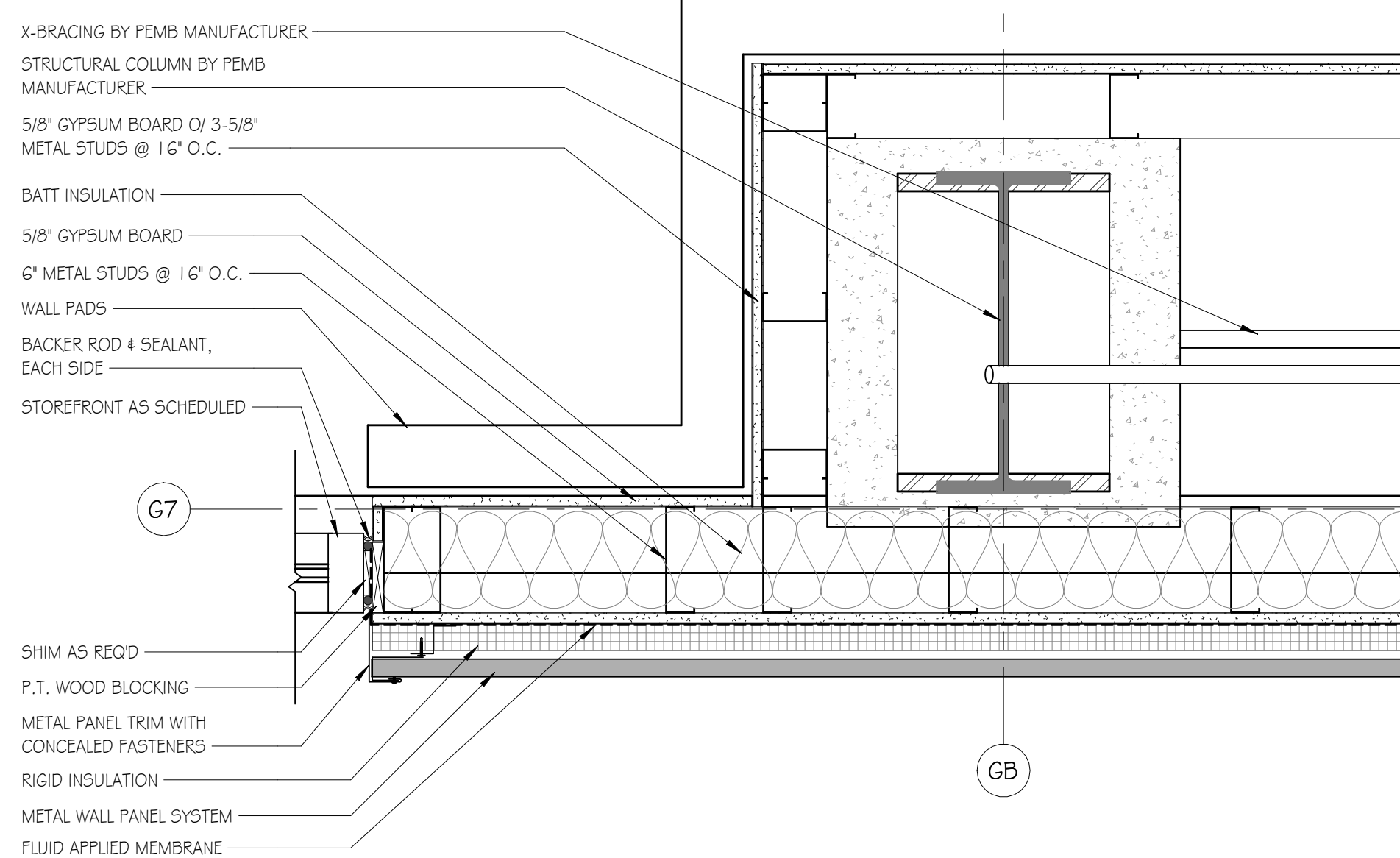
H10 DUMPSTER ENCLOSURE ELEVATION
 SCALE: 1/4" = 1'-0"



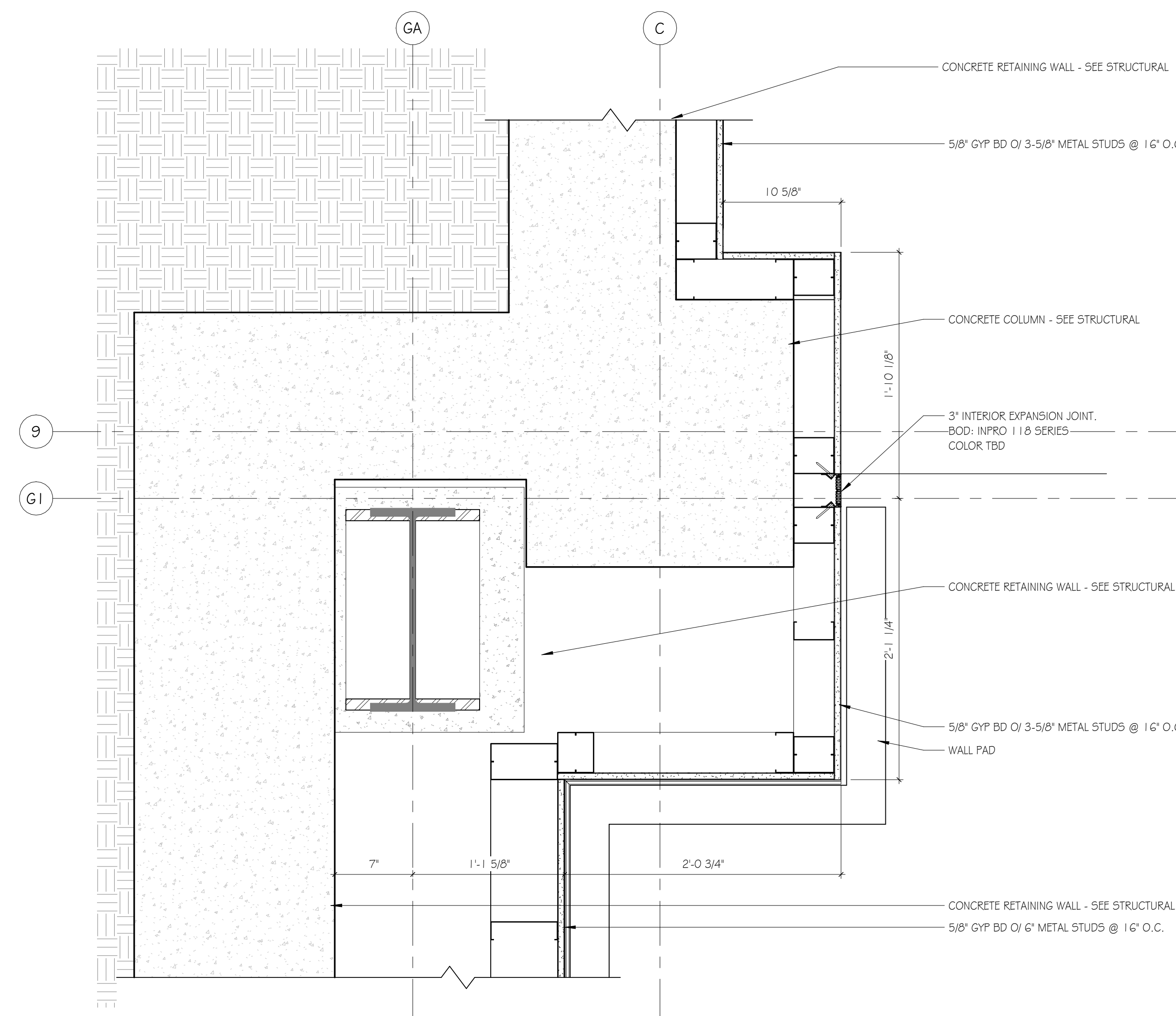
D1 TRACK
 SCALE: 1 1/2" = 1'-0"



A1 COLUMN WRAP IN CORRIDOR
 SCALE: 1 1/2" = 1'-0"



A5 PEEM COLUMN WRAP IN GYM
 SCALE: 1 1/2" = 1'-0"



A9 PEEM COLUMN AT STAIR
 SCALE: 1 1/2" = 1'-0"

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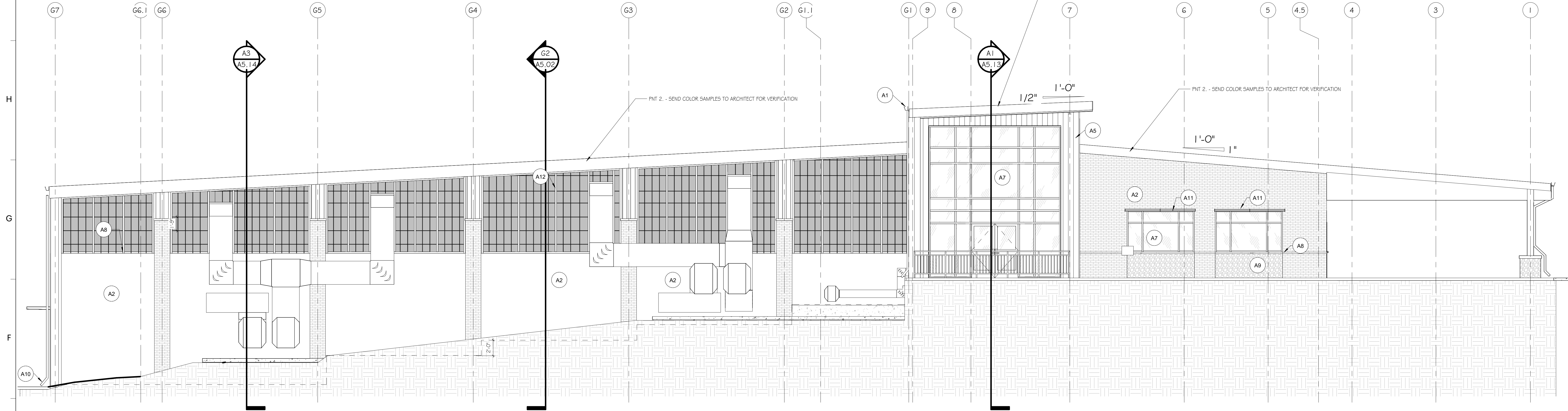
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DRAWN BY:	JAN W.
CHECKED BY:	MARK V.

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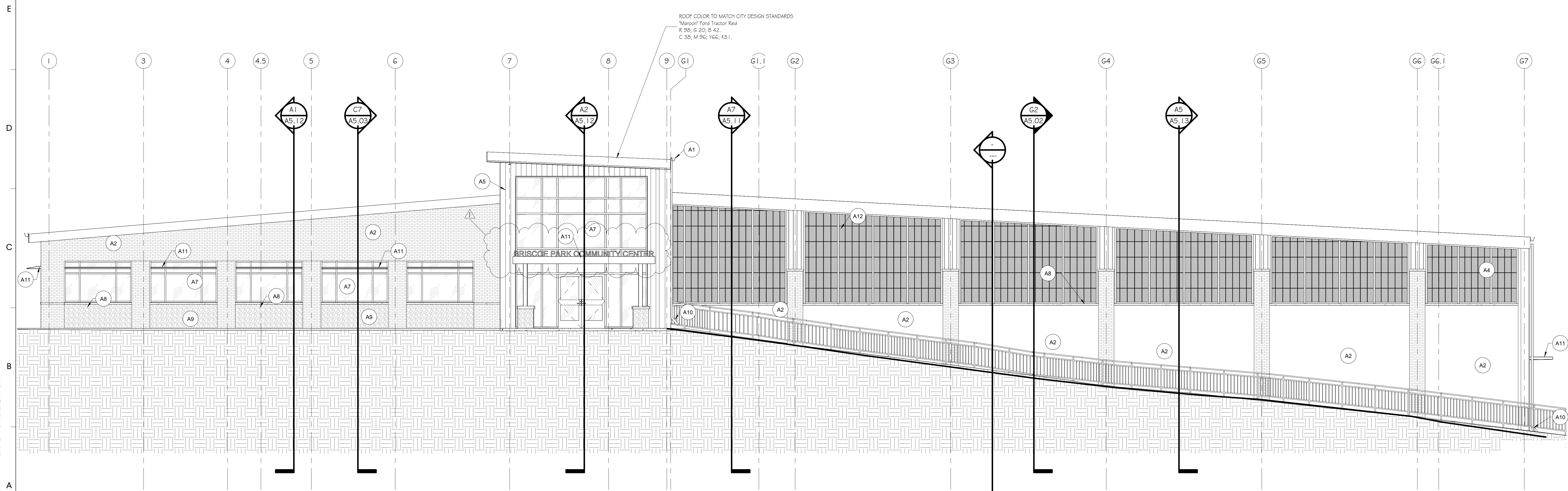
PLAN DETAILS
AND DUMPSTER
DETAILS
A1.22
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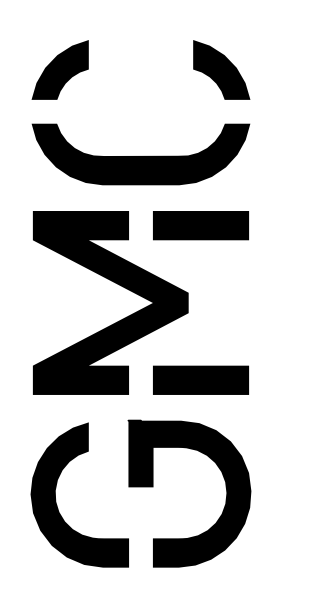
ELEVATION KEYNOTE LEGEND	
KEY VALUE	KEY NOTE TEXT
A1	PRE-FINISHED METAL GUTTER
A2	BRICK VENEER WALL
A3	STANDING SEAM METAL ROOF
A4	TRANSLUCENT WALL PANEL
A5	PREFABRICATED/ PREPAINTED METAL WALL PANEL
A6	OVERHEAD DOOR AS SCHEDULED
A7	STOREFRONT AS SCHEDULED
A8	PRECAST SILL
A9	GRANITE STONE VENEER
A10	PRE-FINISHED/ PREPAINTED DOWNSPOUT
A11	PREFABRICATED/ PREPAINTED METAL SUNSHADE
A12	PRE-FINISHED/ PREPAINTED METAL FASCIA
A13	FIBER CEMENT BOARD



E1 REAR ELEVATION
SCALE: 3/16" = 1'-0"



A1 FRONT ELEVATION
SCALE: 3/16" = 1'-0"



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CONSTRUCTION DOCUMENTS	12/09/2024
ADDENDUM #1	1/9/2025

DRAWN BY: JAN W.
CHECKED BY: MARK V.

BRISCOE PARK
2500 SAWYER PKWY SW, SNELLVILLE,
GA 30078
GMC # AATL230037

EXTERIOR ELEVATIONS
A4.01
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1/10/2025 2:15:22 PM TEMPLATE VERSION: 3.4

DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	PAIR	DOOR SIZE		DOOR SIZE		DOOR DESCRIPTION			FRAME DESCRIPTION			DOOR HARDWARE				NUMBERED NOTES		
			W	H	W	H	DOOR TYPE	MAT'L	GLASS OR LOUVER TYPE	FRAME TYPE	MAT'L	GLASS TYPE	FIRE RATING	HARDWARE SET NUMBER	HOLD OPEN	ACCESS CONTROL DEVICE		FIRE ALARM INTERFACE	
100A	GYMNASIUM	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
100B	GYMNASIUM			10'-0"	10'-0"	3/4"	RS				AL								
100C	GYMNASIUM			10'-0"	10'-0"	3/4"	RS				AL								
100D	GYMNASIUM	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
100E	GYMNASIUM	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
100F	GYMNASIUM	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
101A	STAIR			12'-0"	10'-0"	3/4"	RS										20MIN		
101B	ELEV. VESTIBULE	■	3'-0"	6'-0"	7'-0"	1 3/4"	F	HM		F1	HM						20MIN		
102	ELEV. VESTIBULE	■	3'-0"	6'-0"	7'-0"	1 3/4"	F	HM		F1	HM						20MIN		
104	JAN.		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD		F1	HM						20MIN		
105	MEN		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD		F1	HM								
106	WOMEN		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD		F1	HM								
200	VESTIBULE	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
201F	CORRIDOR	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
201H	CORRIDOR	■	3'-0"	6'-0"	7'-2"	1 3/4"	FG2	AU/GL	G I	5F	AL								
202	RECEPTION		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	G I	F1	HM								
203	CORRIDOR		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	G I	F1	HM								
204	OFFICE		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	G I	F1	HM								
205	OFFICE		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	G I	F1	HM								
206	OFFICE		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	G I	F1	HM								
207	DIRECTOR OFFICE		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	G I	F1	HM								
209	TOILET		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD		F1	HM								
210	STORAGE		3'-0"	3'-0"	7'-0"	1 3/4"	F	HM		F1	HM								
212	CORRIDOR	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
213A	ACTIVITY ROOM	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL		5F	AL								
213B	STORAGE		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	G I	F1	HM					20MIN			
213C	ACTIVITY ROOM	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL		5F	AL								
214A	ACTIVITY ROOM	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL		5F	AL								
214B	ACTIVITY ROOM	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL		5F	AL								
214C	STORAGE		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	G I	F1	HM					20MIN			
215	MEN		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD		F1	HM								
216	TOILET		3'-0"	3'-0"	7'-0"	1 3/4"	F	HM		F1	HM								
217	RISER ROOM		3'-0"	3'-0"	7'-0"	1 3/4"	F	HM		F1	HM								
218	CORRIDOR		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD		F1	HM								
219	STORAGE		4'-0"	4'-0"	7'-0"	1 3/4"	F	WD		F1	HM					20MIN			
220	TOILET		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD		F1	HM								
221A	AEROBIC DANCE	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL		5F	AL								
221B	CORRIDOR	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL		5F	AL								
223	VESTIBULE	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
224	STORAGE / BUILDING SUPPORT		3'-0"	3'-0"	7'-0"	1 3/4"	N	WD	G I	F1	HM					20MIN			
225	JAN.		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD		F1	HM					20MIN			
226B	CORRIDOR		3'-0"	3'-0"	7'-0"	1 3/4"	F	WD		F1	HM					20MIN			
227A	CORRIDOR	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
227B	CORRIDOR	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
227C	CORRIDOR	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
227D	CORRIDOR	■	3'-0"	6'-0"	7'-0"	1 3/4"	FG2	AU/GL	G I	5F	AL								
228	OUTDOOR STORAGE		3'-0"	3'-0"	7'-0"	1 3/4"	F	HM		F1	HM								
300	DUMPSTER SIDE DOOR		3'-0"	3'-0"	7'-0"	1 3/4"	F	HM		F1	HM								

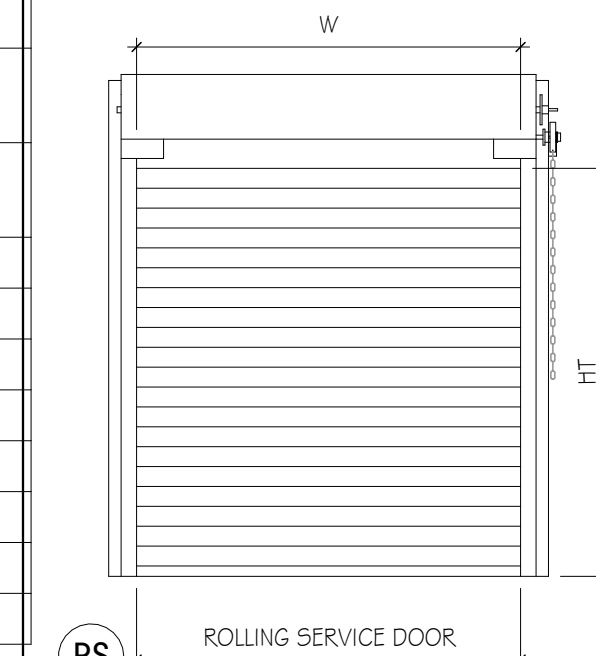
DOOR COMMENTS LEGEND

- 01 MAGNETIC HOLD-OPEN DEVICES
- 02 AUTOMATIC DOOR OPERATOR, SEE SPECIFICATIONS
- 03 AUTOMATIC ENTRANCE DOORS, SEE GLAZING SCHEDULE FOR CONFIGURATION
- 04 ALUMINUM-FRAME ENTRANCE DOORS, SEE GLAZING SCHEDULE FOR CONFIG.
- 05 ALL-GLASS ENTRANCE DOORS, SEE GLAZING SCHEDULE FOR CONFIGURATION
- 06 ALUMINUM-FRAME ICU/CCU DOOR, SEE GLAZING SCHEDULE FOR CONFIGURATION
- 07 OVERHEAD COILING DOOR, SEE SPECIFICATIONS
- 08 THERMAL RATED (INSULATED) ASSEMBLY
- 09 DOOR EDGE CONSTRUCTION: SEAMLESS
- 10 LEVEL 3 AND PHYSICAL PERFORMANCE LEVEL A [EXTRA HEAVY-DUTY]
- 11 EGRESS - EXIT ONLY DOOR
- 12 EXISTING DOOR AND FRAME TO REMAIN
- 13 MECHANICAL KEYPAD LOCK, SEE SPECIFICATIONS

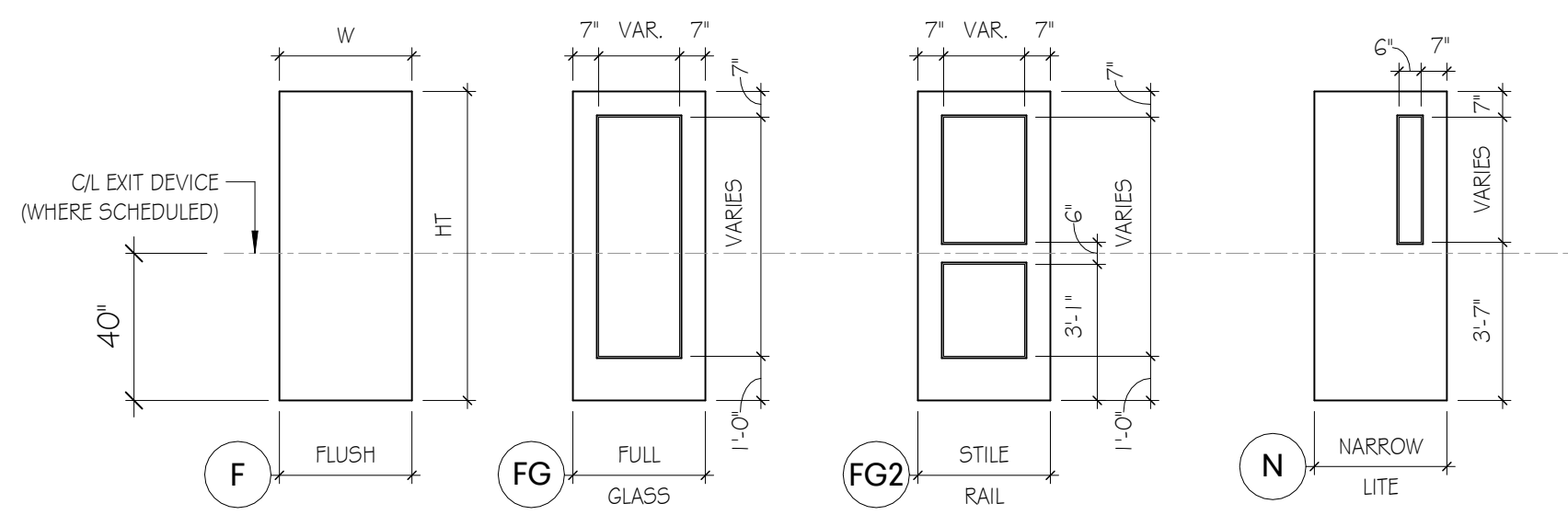
DOOR GENERAL NOTES

- 1) GENERAL:
 A. DOOR AND/OR FRAME CONSTRUCTION SHALL BE AS SPECIFIED UNLESS NOTED OTHERWISE.
- B. ALL TYPES OF DOORS ARE REPRESENTED IN THIS SCHEDULE FOR CONVENIENCE, WHERE MORE DESCRIPTIVE INFORMATION MAY BE LOCATED ELSEWHERE, NOTATION IS MADE IN THE NUMBERED NOTES COLUMN. (E.G. ALUMINUM FRAMED ENTRANCE DOORS, SEE GLAZING SCHEDULE FOR CONFIGURATION.)
- 2) MATERIAL AND FINISH:
 A. MATERIALS AND FINISHES INDICATED ON THE SCHEDULE ARE AS FOLLOWS:
 HM HOLLOW METAL
 ST STEEL
 ST/SS STEEL / STAINLESS OR STAINLESS CLAD
 WD SOLID CORE WOOD
 WD/PL WOOD / PLASTIC LAMINATE FACED
 WD/IR WOOD / IMPACT-RESISTANT VINYL-FACED
 AL ALUMINUM
 GL GLAZING/GLASS
- 3) GLASS:
 A. GLASS TYPES INDICATED ON THE SCHEDULE ARE AS FOLLOWS (SEE SPECIFICATION SECTIONS 088000 "GLAZING")
- 4) LOUVER:
 A. DOOR LOUVER TYPES INDICATION ON THE SCHEDULE ARE AS FOLLOWS:
 L1 A' X B', SIGHT PROOF
 L2 C' X D', SIGHT PROOF
 L3 E' X F', LIGHT PROOF
- 5) DOOR HARDWARE:
 A. "HARDWARE SET NUMBER" REFERS TO HARDWARE SETS SPECIFIED IN SPECIFICATION SECTION 087100 "DOOR HARDWARE".

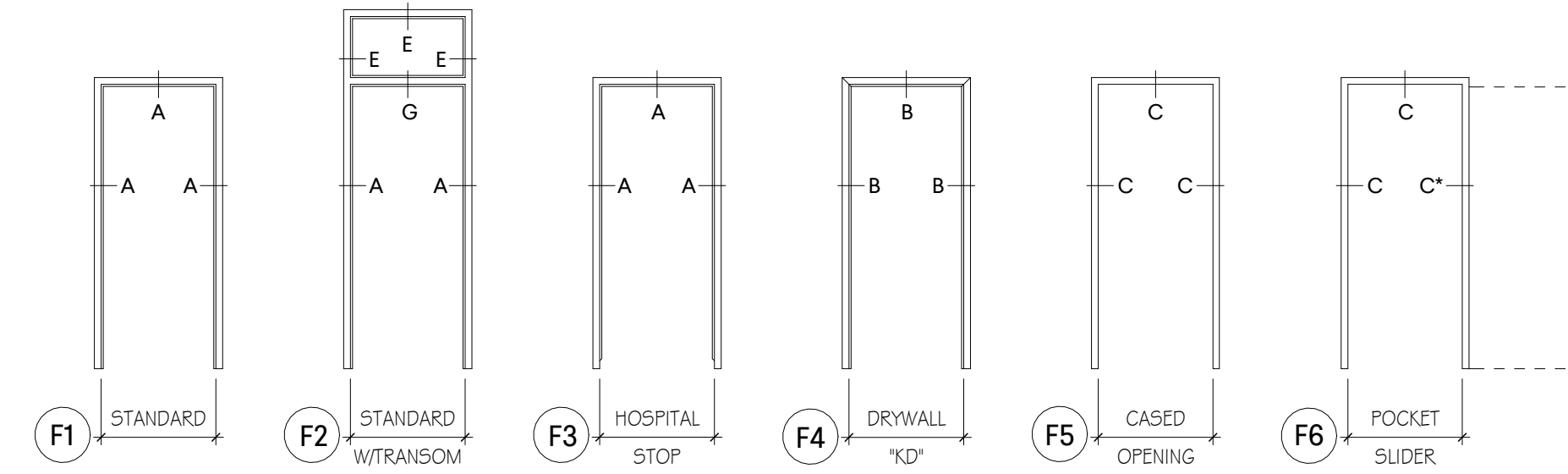
SPECIALTY DOOR + FRAME TYPES



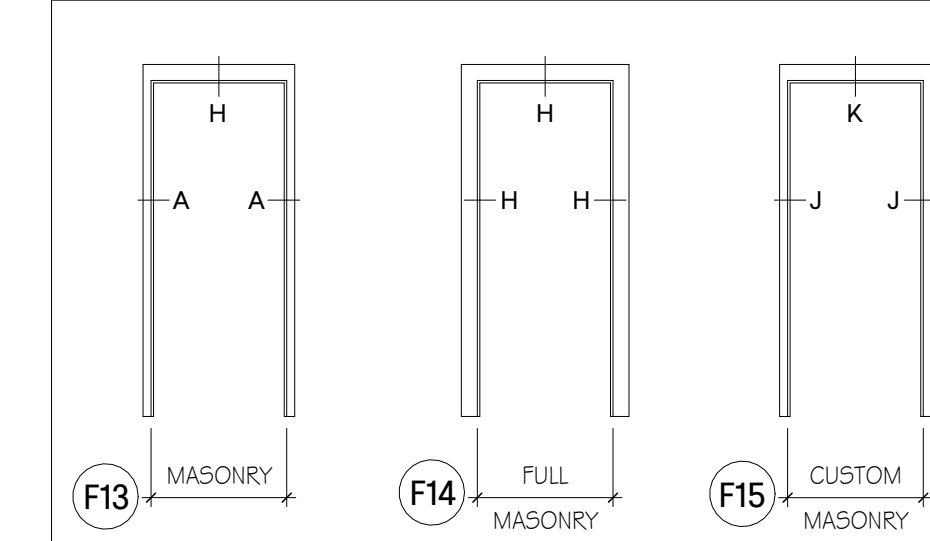
DOOR TYPES - WOOD + HOLLOW METAL SWING DOORS



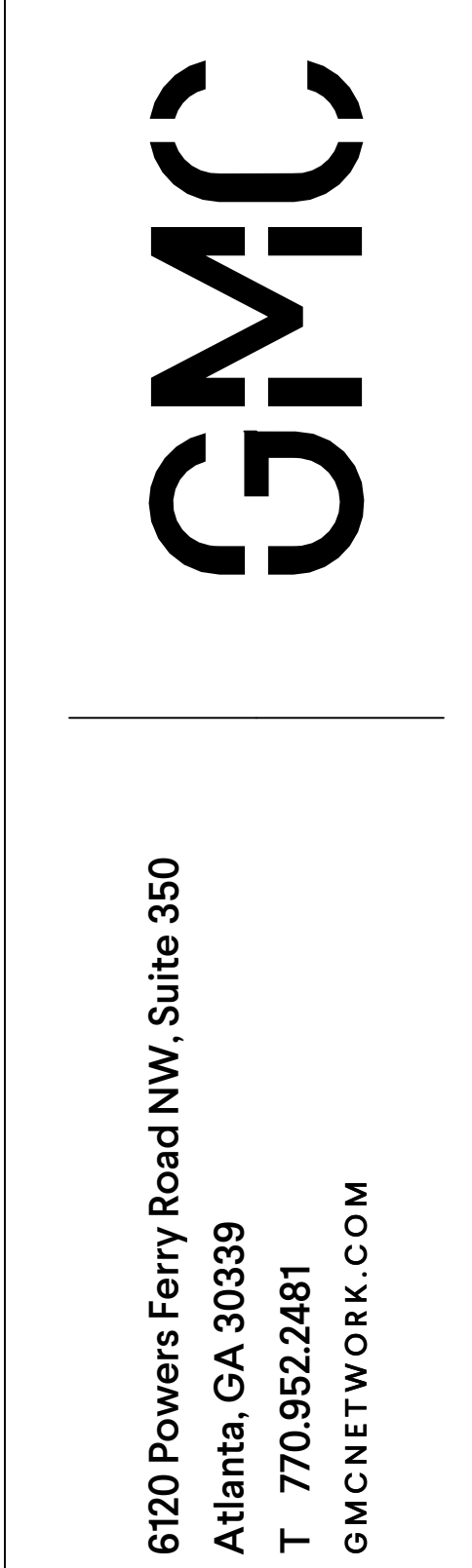
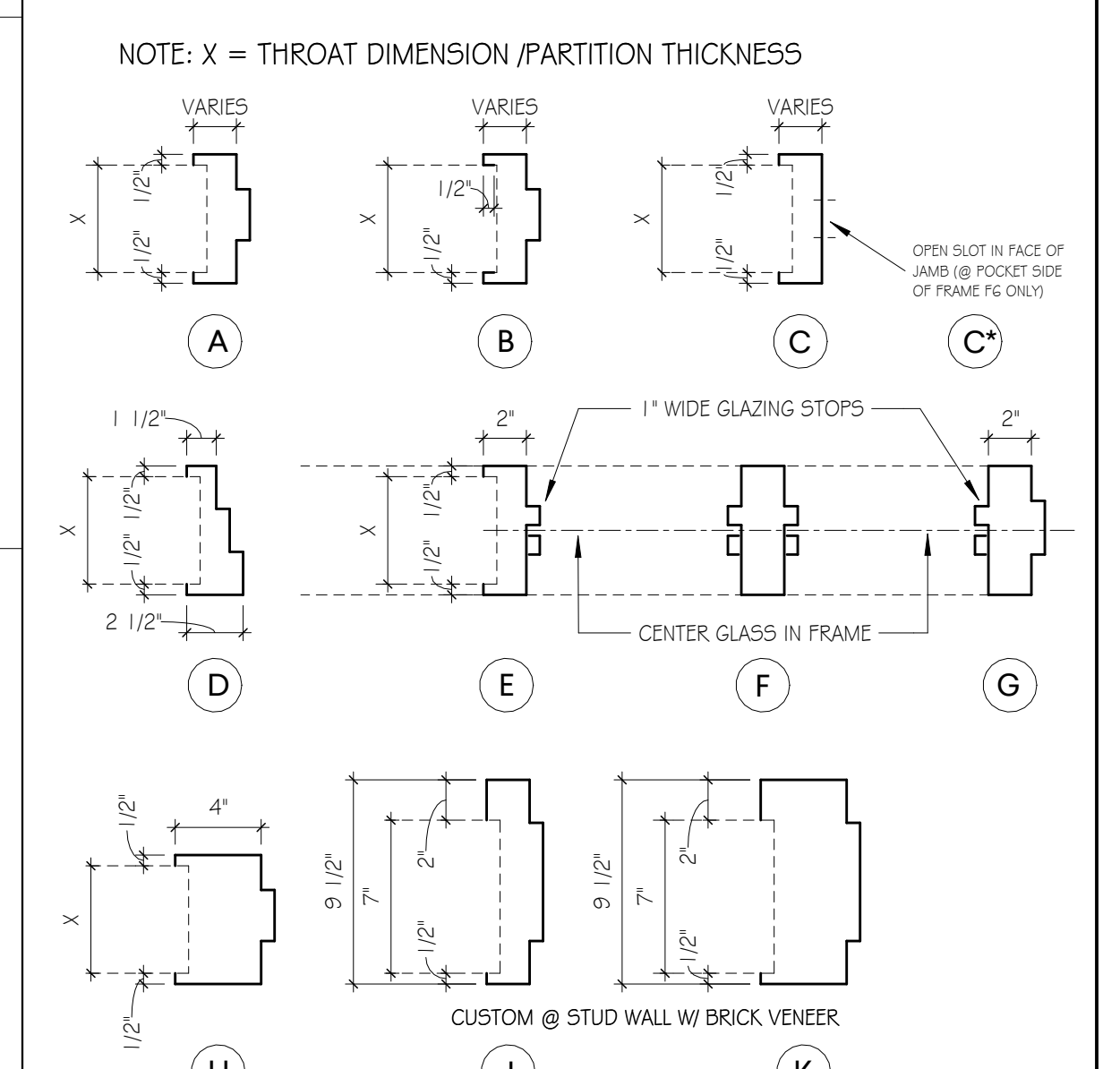
FRAME TYPES - HOLLOW METAL



MASONRY FRAMES



FRAME PROFILES



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 Atlanta, GA 30339
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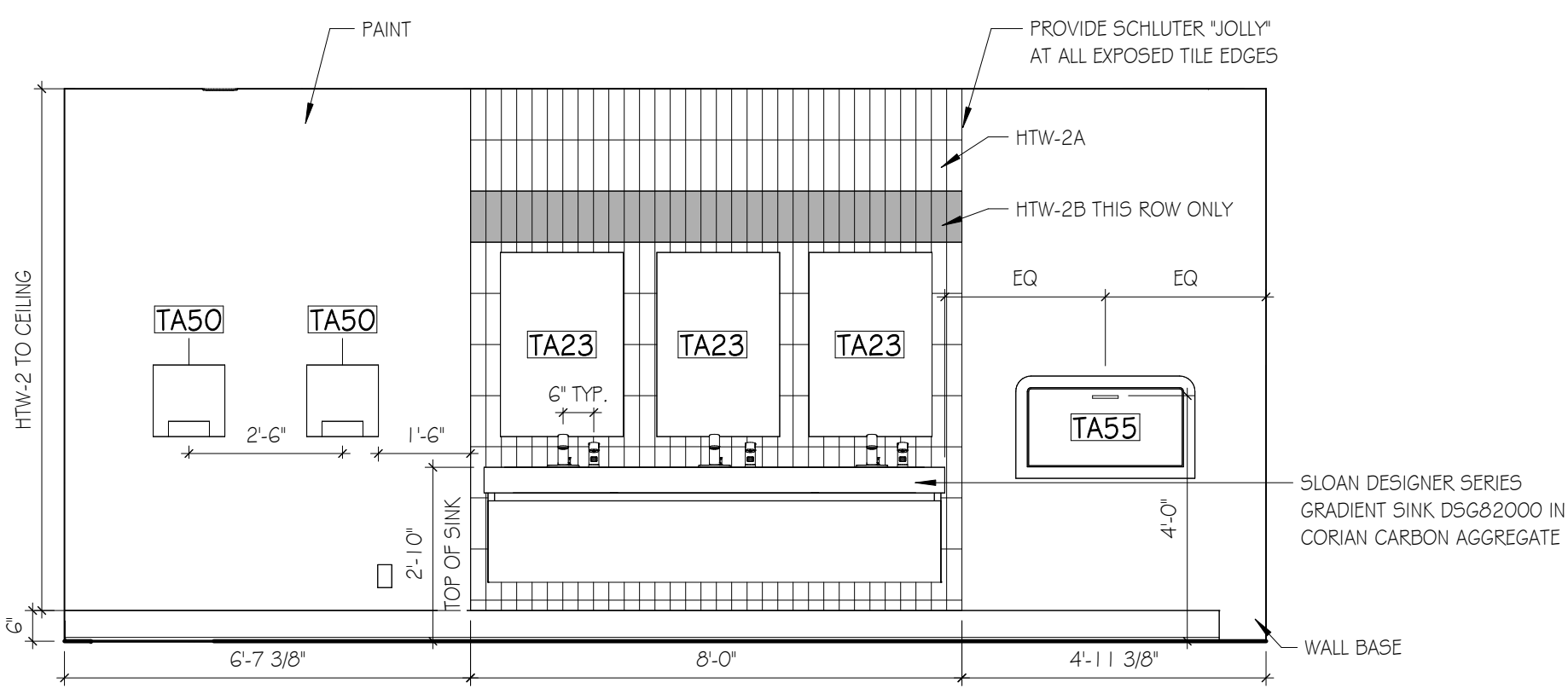
ISSUE	DATE
DESIGN DEVELOPMENT	07/29/2024
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BRISCOE PARK
 2500 SAWYER PKWY SW, SNELLVILLE,
 GA 30078
 GMC # AATL230037

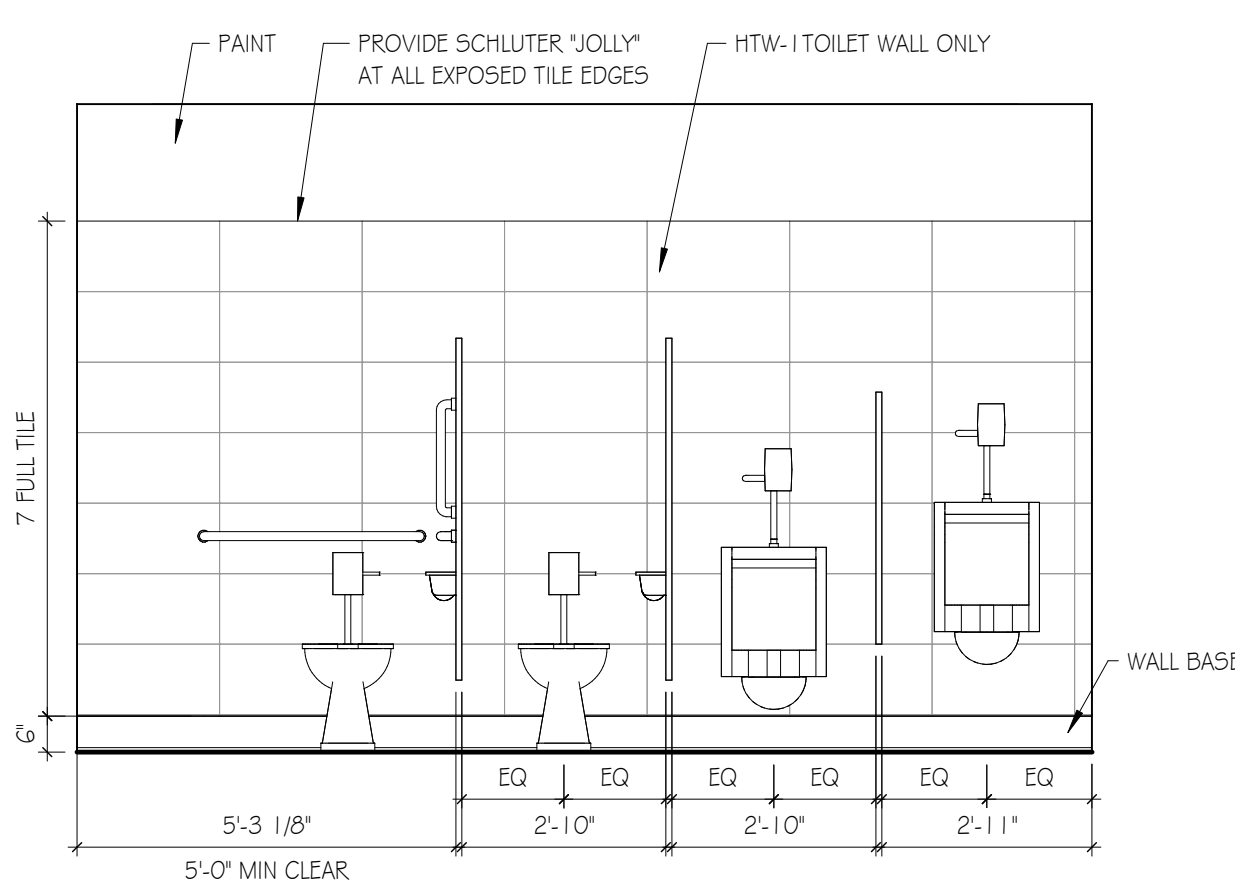
DOOR SCHEDULE,
 LEGEND, &
 DETAILS

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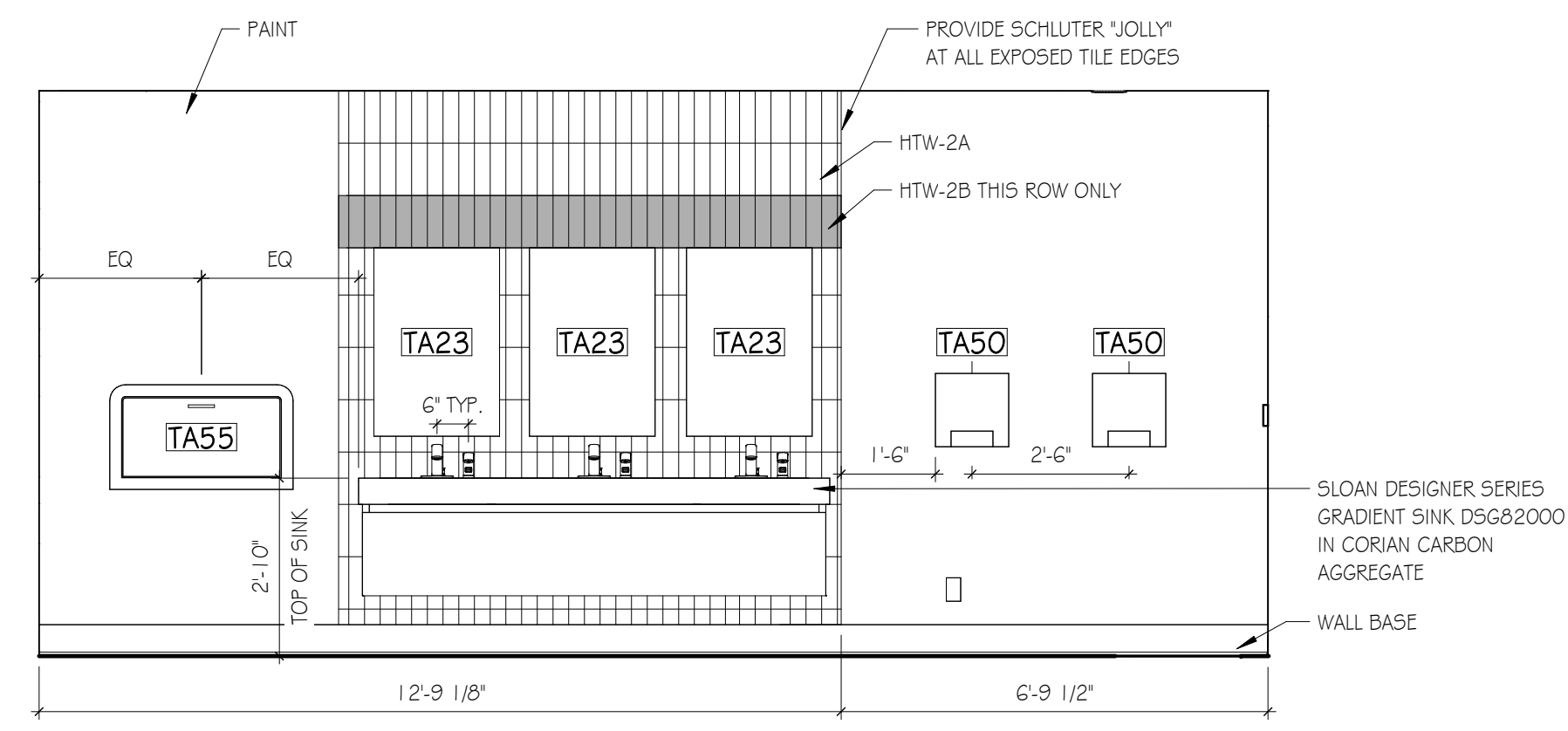
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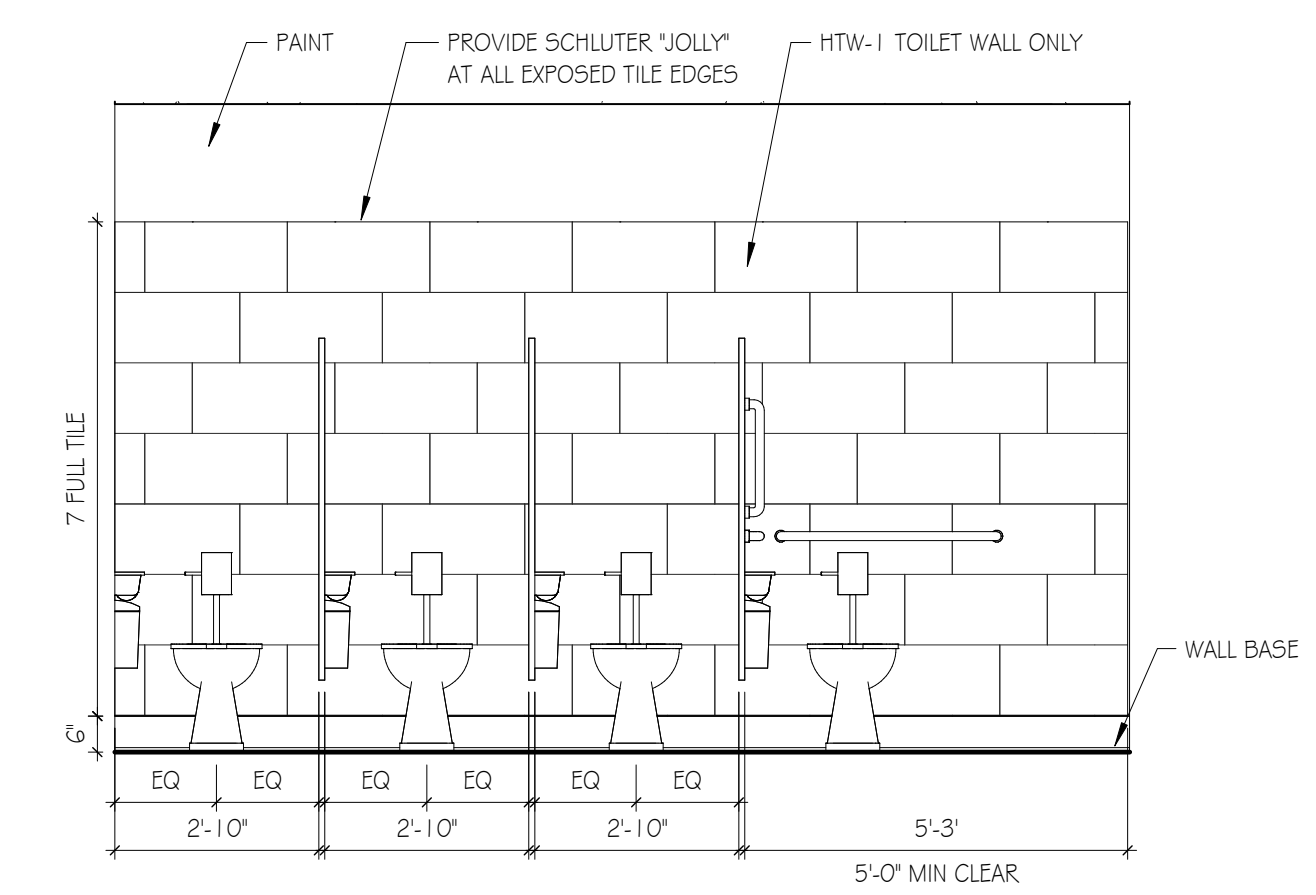
H1 MEN 215 - LAVATORY
SCALE: 3/8" = 1'-0"



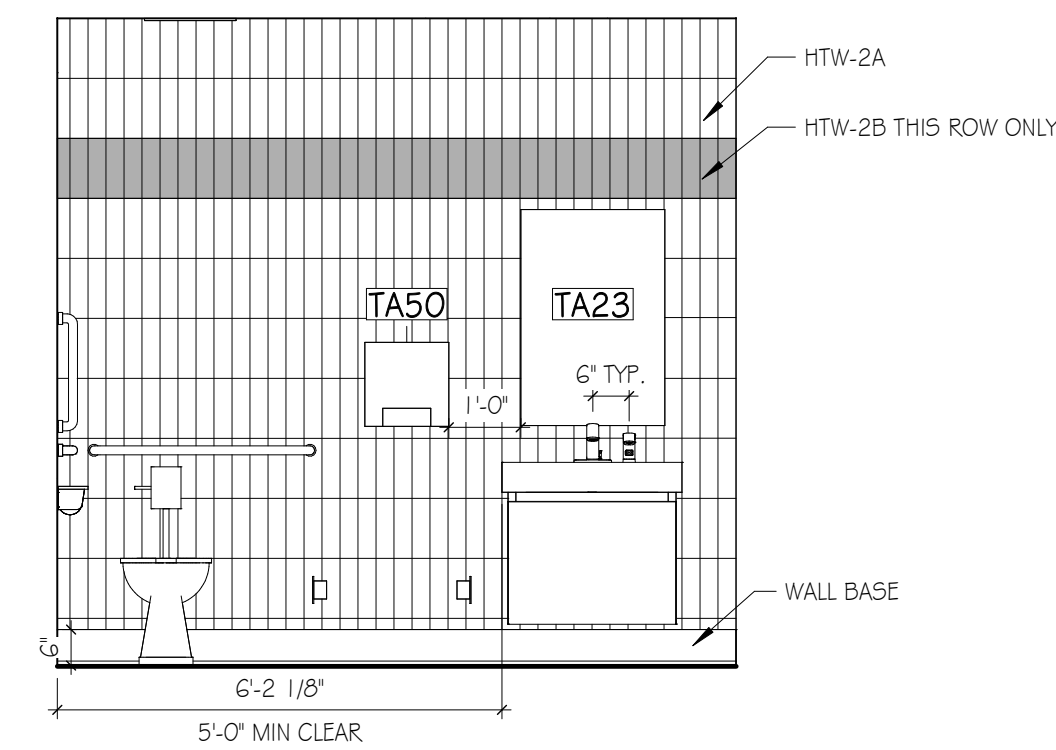
H4 MEN 215 - TOILET
SCALE: 3/8" = 1'-0"



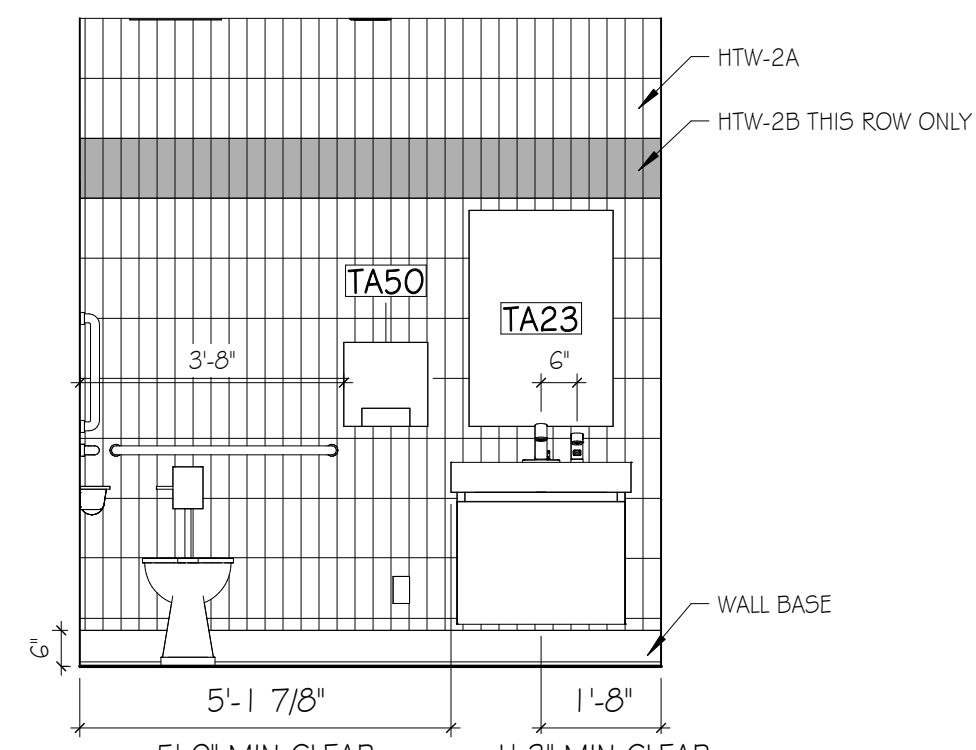
H7 WOMEN 218 - LAVATORY
SCALE: 3/8" = 1'-0"



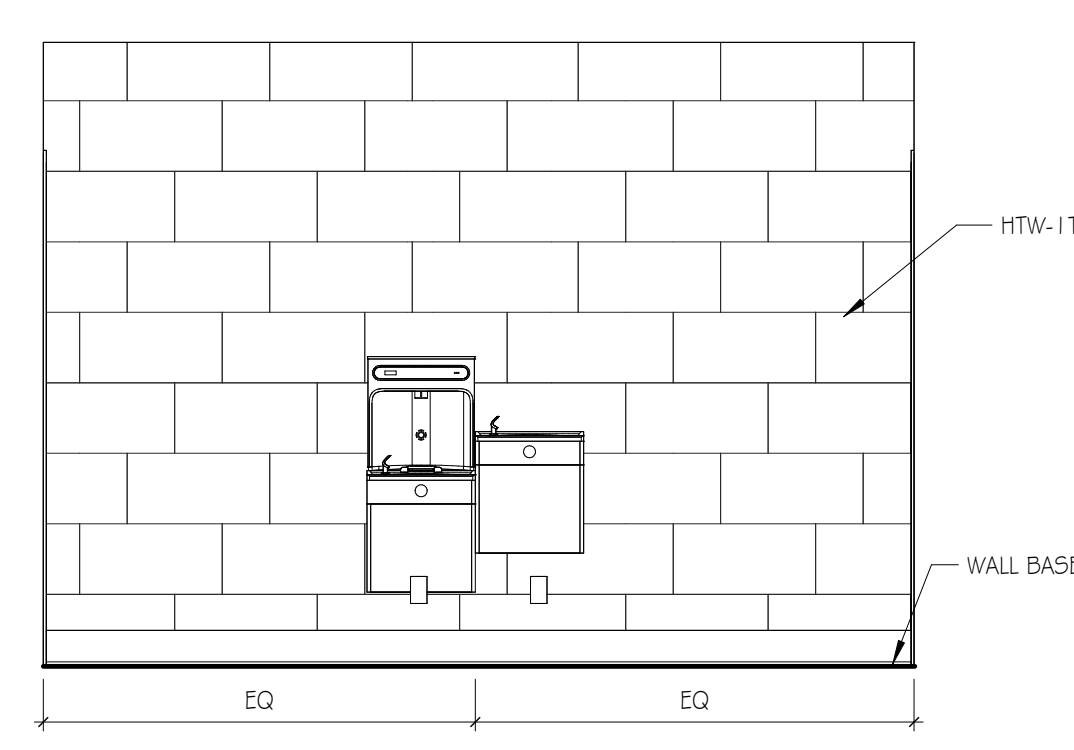
H10 WOMEN 218 - TOILET
SCALE: 3/8" = 1'-0"



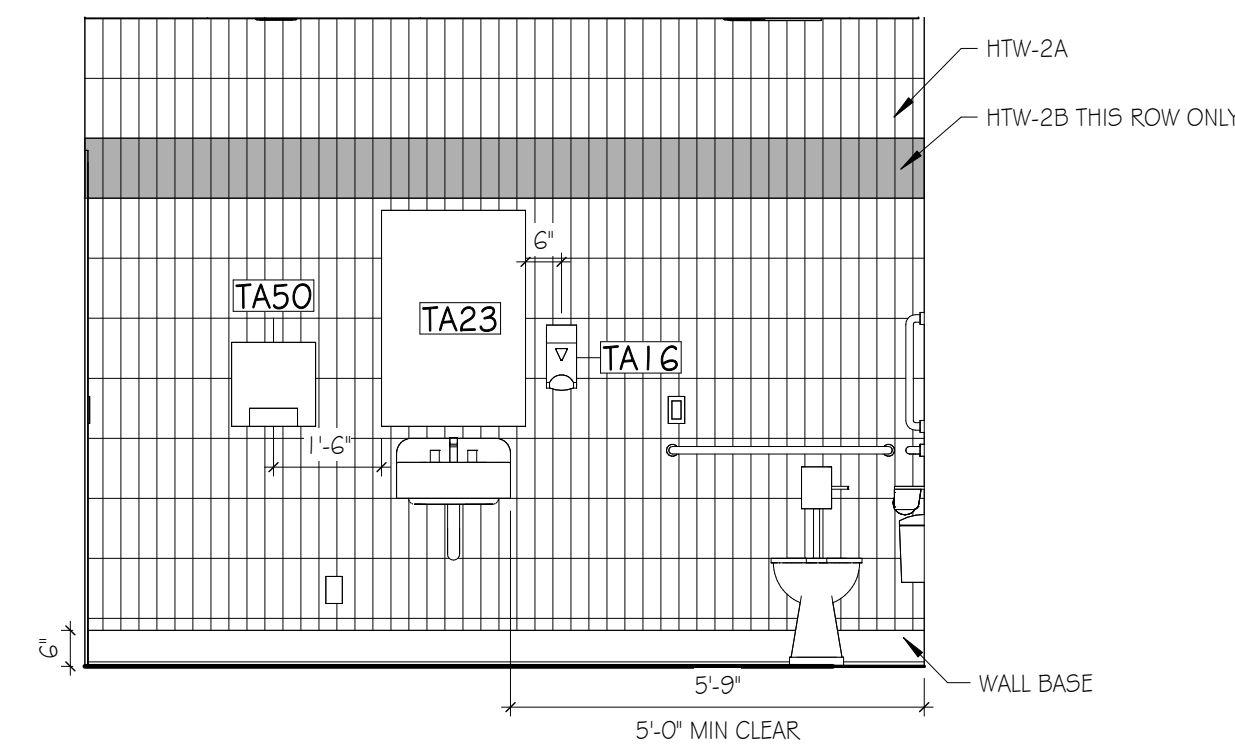
F1 TLT 216
SCALE: 3/8" = 1'-0"



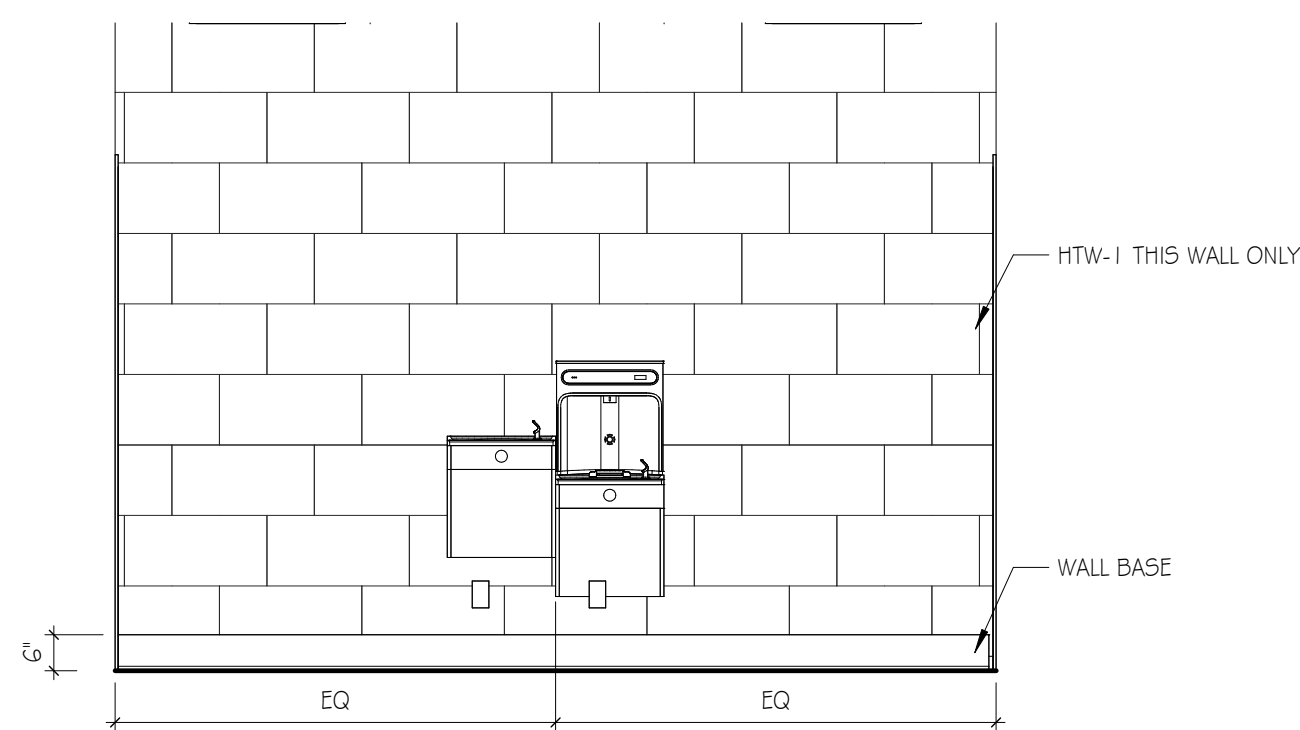
F3 TLT 220 - WET WALL
SCALE: 3/8" = 1'-0"



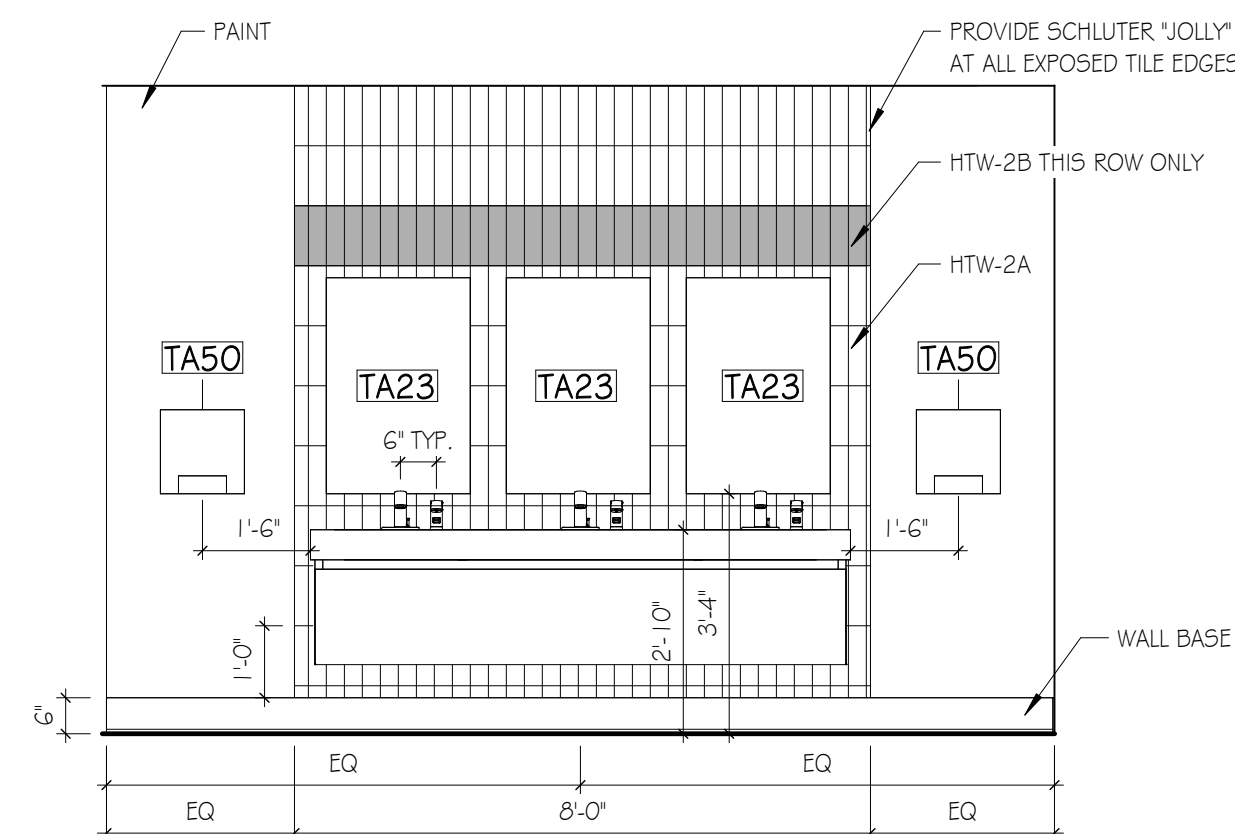
F5 DRINKING FOUNTAINS
SCALE: 3/8" = 1'-0"



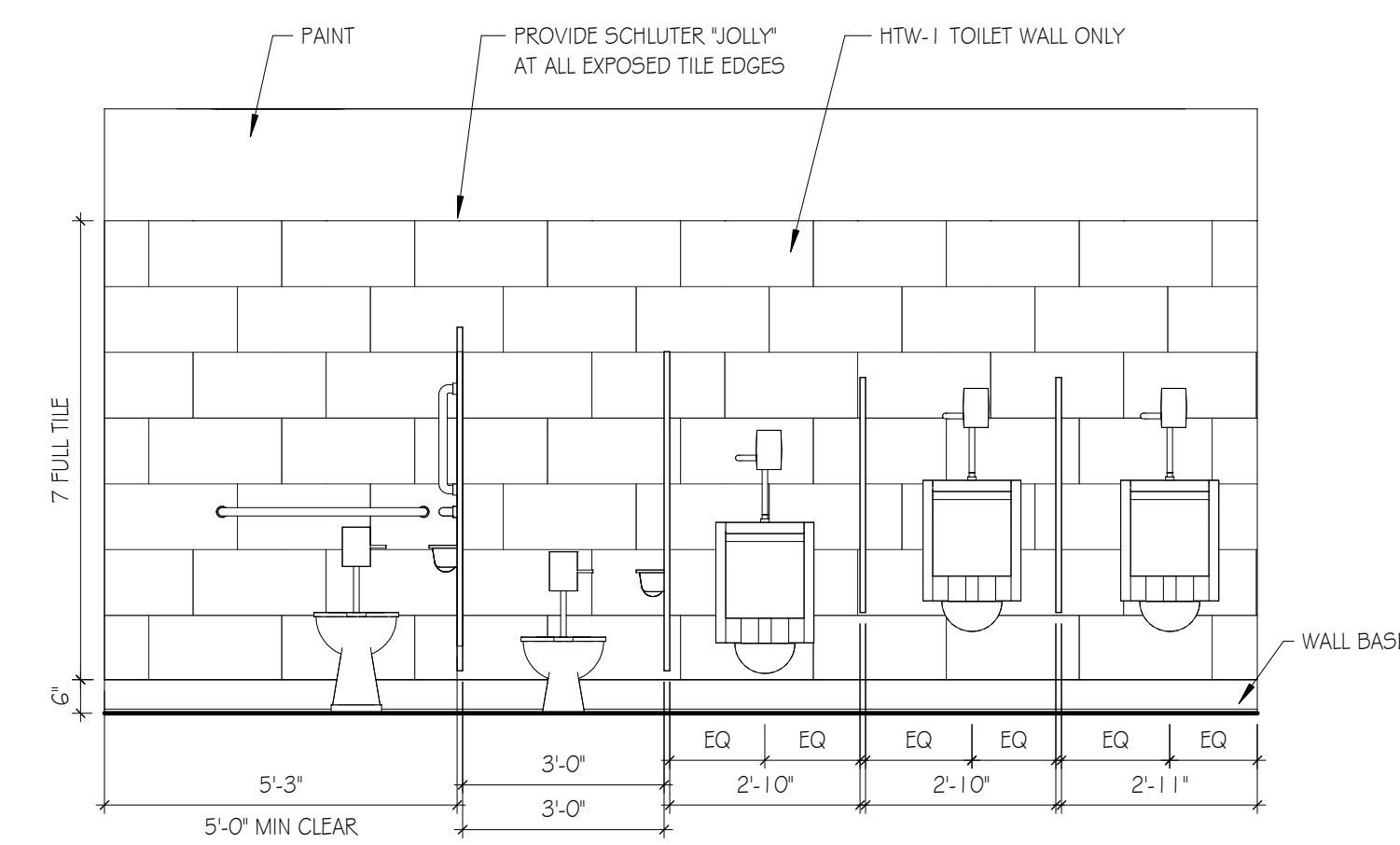
F8 TOILET 209 - NORTH
SCALE: 3/8" = 1'-0"



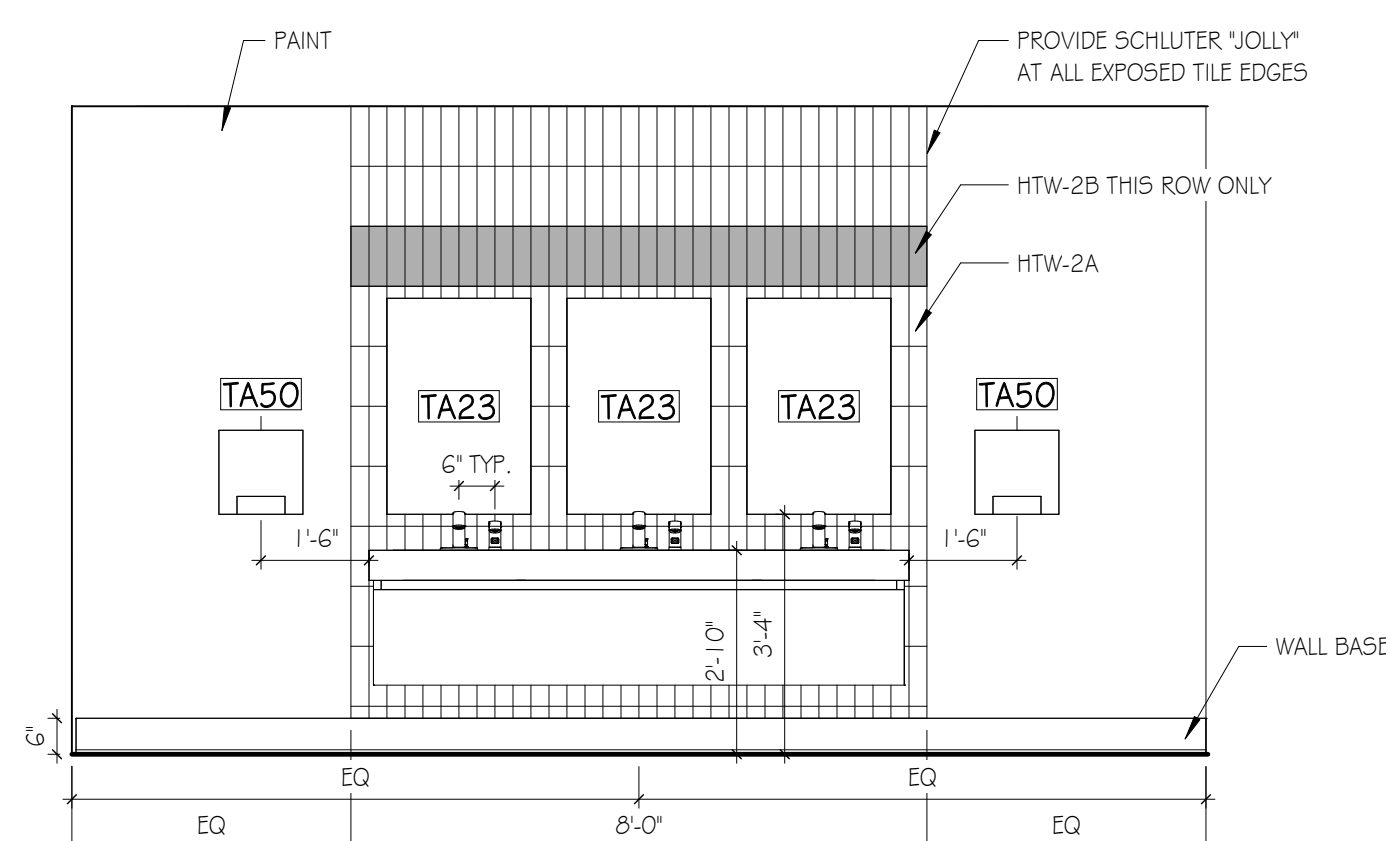
D1 DRINKING FOUNTAIN
SCALE: 3/8" = 1'-0"



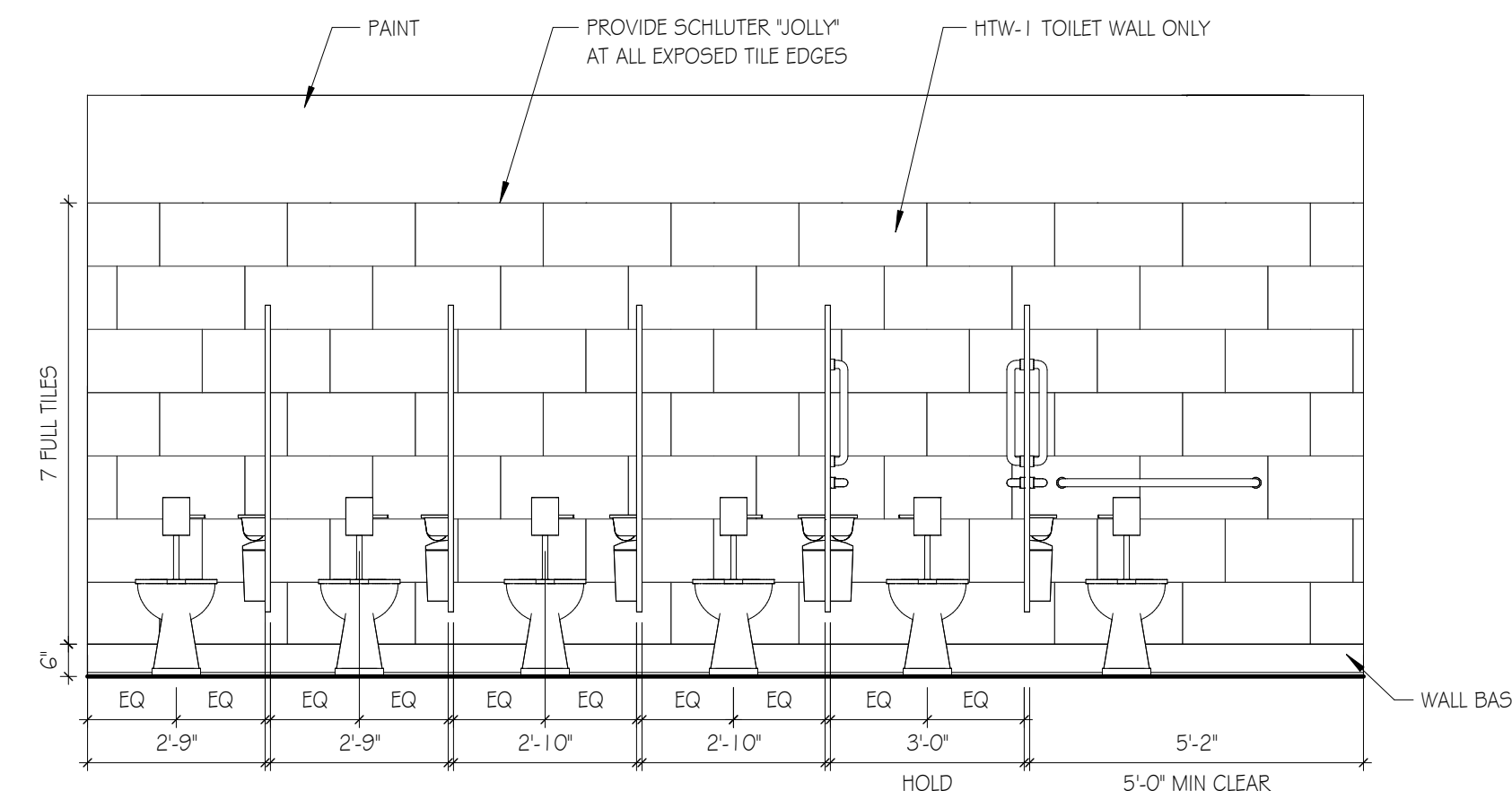
D4 MEN 105 - LAVATORY
SCALE: 3/8" = 1'-0"



D7 MEN 105 - TOILET
SCALE: 3/8" = 1'-0"



A1 WOMEN 106 - LAVATORY
SCALE: 3/8" = 1'-0"



A4 WOMEN 106 - TOILET
SCALE: 3/8" = 1'-0"

TOILET ACCESSORIES SCHEDULE		
ACCESSORY	DESCRIPTION	Comments
TA01	DOUBLE TOILET TISSUE DISPENSER	CFCI
TA1 G	WALL MOUNTED SOAP DISPENSER - MANUALLY OPERATED	CFCI
TA1 B	SLOAN DECK-MOUNTED FOAM SOAP DISPENSER	CFCI
TA21	36" HORIZONTAL GRAB BAR	CFCI
TA22	42" HORIZONTAL GRAB BAR	CFCI
TA23	MIRROR	CFCI
TA29	SANITARY NAPKIN RECEPTACLE	CFCI
TA40	SHOWER ROD - EXTRA HEAVY DUTY, STRAIGHT	CFCI
TA45	URINAL PARTITION SCREEN	CFCI
TA50	ADA COMPLIANT HAND DRYER	OFCI
TA55	BABY CHANGING STATION	CFCI
TA56	UNDERLAVATORY GUARD	CFCI
TA95	MOP & BROOM HOLDER WITH UTILITY SHELF	CFCI

GMC

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CHECKED BY: MARK V.

BRISCOE PARK
2500 SAWYER PKWY SW, SNELLVILLE,
GA 30078
GMC # AATL230037

INTERIOR ELEVATIONS - TOILETS
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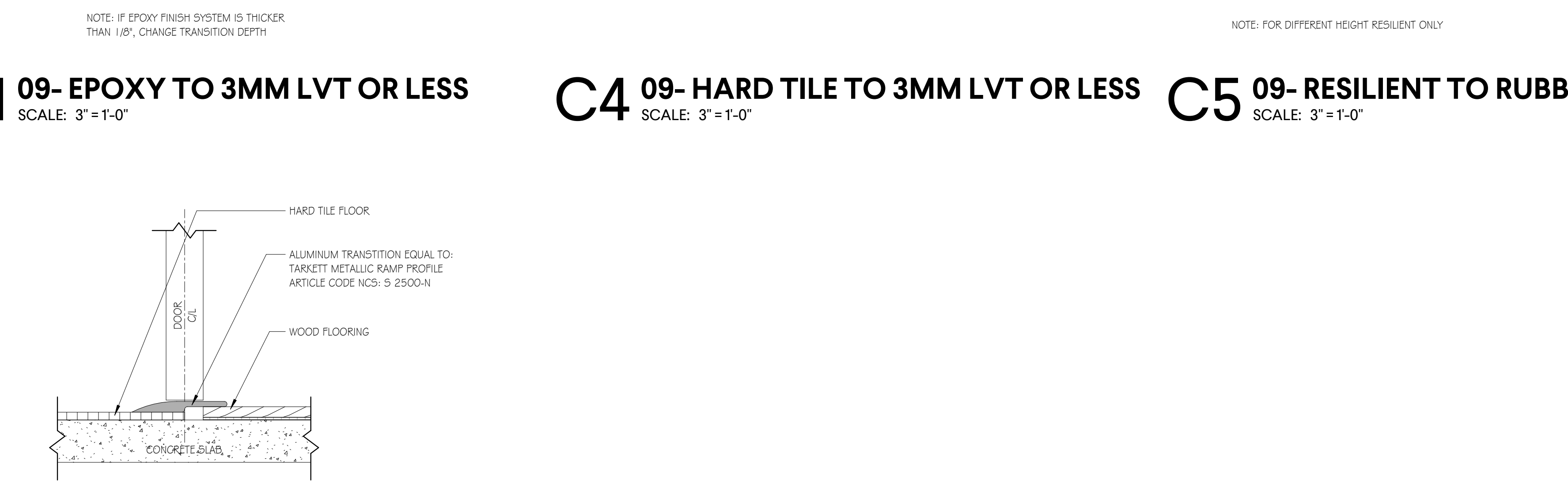
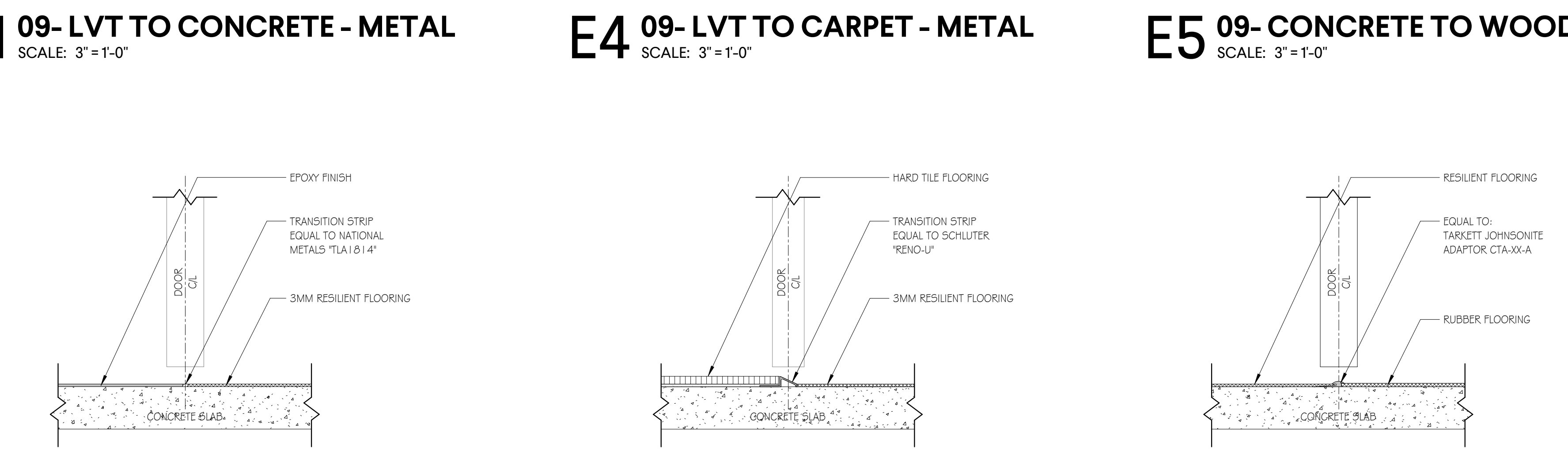
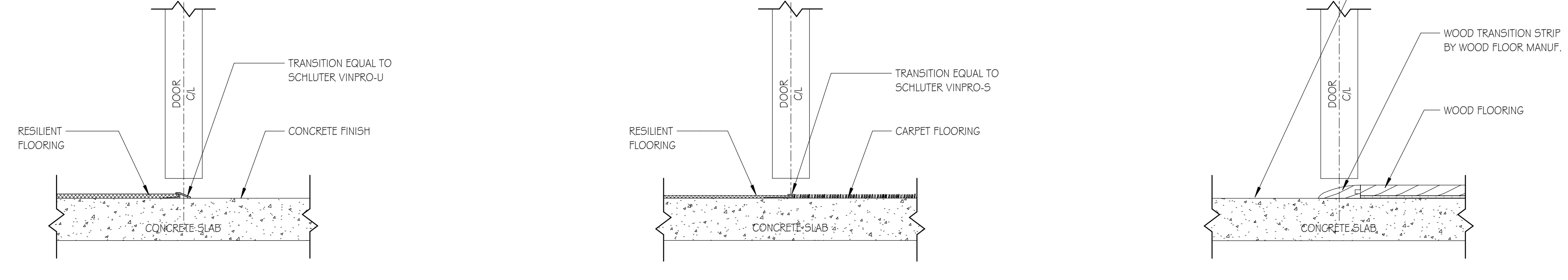
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ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALL	Cabinet Finish	Countertop Finish	COMMENTS	Accent Color
100	GYMNASIUM	WF-1	VB-1					
100A	RR VESTIBULE	HTF-1	HTB-1	HTW-1 # PNT-1			HTW-1 ON WATERCOOLER WALL ONLY. SEE ELEVATIONS.	
100B	ELEV. VESTIBULE	WF-1	RB-1	PNT-1				
101	GYM STORAGE	SC-1	RB-1	PNT-1				
102	BLDG SUPPORT	SC-1	RB-1	PNT-1				
103	ELEV.							
104	JAN.	SC-1	RB-1	PNT-1 # FRP-1			SEE FINISH PLAN FOR LOCATION OF FRP-1.	
105	MEN	HTF-1	HTB-1	HTW-1 # 2, PNT-1	PL-1	SS-1	SEE ELEVATIONS FOR WALL TILE LOCATIONS.	
106	WOMEN	HTF-1	HTB-1	HTW-1 # 2, PNT-1	PL-1	SS-1	SEE ELEVATIONS FOR WALL TILE LOCATIONS.	
200	VESTIBULE	WOC-1	RB-1	PNT-1				
201	CORRIDOR	LVT-1 # 2	RB-1	PNT-1				
202	RECEPTION	LVT-1	RB-1	AWP-1	PL-2 # ML-1	SS-1	SEE FINISH PLAN FOR LOCATION OF ACOUSTICAL WALL PANELING.	
203	WORK ROOM	CPT-1	RB-1	PNT-1				
204	OFFICE	CPT-1	RB-1	PNT-1				
205	OFFICE	CPT-1	RB-1	PNT-1				
206	OFFICE	CPT-1	RB-1	PNT-1				
207	DIRECTOR OFFICE	CPT-1	RB-1	PNT-1				
208	STAFF BREAK ROOM	LVT-1	RB-1	PNT-1				
209	TOILET	HTF-1	HTB-1	HTW-1 # 2	PL-1	SS-1	SEE ELEVATIONS FOR WALL TILE LOCATIONS.	
210	STORAGE	CPT-1	RB-1	PNT-1				
211	WORK ROOM	CPT-J	RB-1	PNT-1	PL-2	SS-1		
212	CORRIDOR	LVT-1	RB-1	PNT-1				
213	ACTIVITY ROOM	LVT-1	RB-1	PNT-1	PL-2	SS-1		
213B	STORAGE	LVT-1	RB-1	PNT-1				
214	ACTIVITY ROOM	LVT-1	RB-1	PNT-1	PL-2	SS-1		
214B	STORAGE	LVT-1	RB-1	PNT-1				
215	MEN	HTF-1	HTB-1	HTW-1 # 2, PNT-1	PL-1	SS-1	SEE ELEVATIONS FOR WALL TILE LOCATIONS.	
216	TOILET	HTF-2	HTB-1	HTW-1 # 2	PL-1	SS-1	SEE ELEVATIONS FOR WALL TILE LOCATIONS.	
217	RISER ROOM	SC-1	RB-1	PNT-1				
218	WOMEN	HTF-1	HTB-1	HTW-1 # 2, PNT-1	PL-1	SS-1	SEE ELEVATIONS FOR WALL TILE LOCATIONS.	
219	STORAGE	LVT-1	RB-1	PNT-1				
220	TOILET	HTF-2	HTB-1	HTW-1 # 2	PL-1	SS-1		
221	AEROBIC DANCE	RF-1	RB-1	PNT-1				
222	COVERED PORCH	SC-1						
223	VESTIBULE	WOC-1	RB-1	PNT-1				
224	STORAGE / BUILDING SUPPORT	SC-1	RB-1	PNT-1				
225	JAN.	SC-1	RB-1	PNT-1 # FRP-1			SEE FINISH PLAN FOR LOCATION OF FRP-1.	
226	ELEV.							
226B	DATA ROOM	SC-1	RB-1	PNT-1				
226O	OUTSIDE DUMPSTER							
227	WALKING TRACK	RF-2	RB-1	PNT-1				
228	OUTDOOR STORAGE	SC-1	RB-1	PNT-1				
300	DUMPSTER							
51	STAIR	RST-1	RB-1	PNT-1				

FINISH LEGEND

FLOOR			BASE			MISC		
NUMBER	TYPE	DETAIL DESCRIPTION	NUMBER	TYPE	DETAIL DESCRIPTION	NUMBER	TYPE	DETAIL DESCRIPTION
CPT-1	CARPET	MANUFACTURER: INTERFACE STYLE NAME: OPEN AIR 420 COLOR RANGE COLOR: 1070G2 NICKEL SIZE: 50 CM x 50 CM INSTALLATION: MONOLITHIC	EB-1	INTEGRAL COVE EPOXY BASE	MANUFACTURER: MATCH EF-1 STYLE NAME: MATCH EF-1 COLOR: MATCH EF-1 SIZE: 4" INTEGRAL COVE	ML-1	METAL LAMINATE	MANUFACTURER: MOZ STYLE NAME: PERFORATED 3/8" DIAMETER CLASSIC TITANIUM FOG MATTE FINISH: ALUMINUM LOCATION: RECEPTION DESK
HTF-1	HARD FLOOR TILE	MANUFACTURER: GARDEN STATE TILE STYLE NAME: TITAN PORCELAIN TILE COLOR: ASH SIZE: 12 x 24 INSTALLATION: STACKED GROUT: LATICRETE 89 SMOKE GRAY LOCATION: RESTROOM FLOORS	HTB-1	HARD TILE BASE	MANUFACTURER: GARDEN STATE TILE STYLE NAME: TITAN COLOR: ASH SIZE: 3' x 12" BULLNOSE NATURAL RECTIFIED	PL-1	PLASTIC LAMINATE	MANUFACTURER: WILSONART COLOR: LANDMARK WOOD 7981 K-12 LOCATION: ALL SINX SYSTEMS IN RESTROOMS
HTF-2	HARD FLOOR TILE	MANUFACTURER: GARDEN STATE TILE STYLE NAME: TITAN PORCELAIN TILE COLOR: ASH SIZE: 2 x 2 MOSAIC GROUT: LATICRETE 89 SMOKE GRAY LOCATION: SINGLE HOLE RESTROOM FLOORS	VB-1	VENTED BASE	MANUFACTURER: JOHNSONITE STYLE NAME: VENT COVE COLOR: 40 BLACK BY WOOD FLOORING MANUFACTURER	PL-2	PLASTIC LAMINATE	MANUFACTURER: FENIX STYLE NAME: FENIX STANDARD GRADE COLOR: J0752 GRIGIO LOCATION: TYPICAL CASEWORK
LVT-1	LUXURY VINYL TILE	MANUFACTURER: INTERFACE STYLE NAME: NORTHERN GRAIN 3.0 MM COLOR: C01 I 01 ANTIQUE WASH SIZE: 25CM x 1M INSTALLATION: ASHLAR	HTW-1	HARD WALL TILE	MANUFACTURER: GARDEN STATE TILE STYLE NAME: TITAN PROCELAIN TILE COLOR: ASH SIZE: 12 x 24 INSTALLATION: STACKED GROUT: LATICRETE 89 SMOKE GRAY	TP-1	TOILET PARTITIONS	MANUFACTURER: ASI GLOBAL PARTITIONS STYLE NAME: STAINLESS STEEL - FLOOR ANCHORED/OVERHEAD BRACED COLOR: #4 SATIN STAINLESS STEEL
LVT-2	LUXURY VINYL TILE	MANUFACTURER: INTERFACE STYLE NAME: STUDIO SET 3.0 MM COLOR: C01 21 3 SLATE SIZE: 25CM x 1M INSTALLATION: ASHLAR	HTW-2	HARD WALL TILE	MANUFACTURER: GARDEN STATE TILE STYLE NAME: LIVING INSTALLATION: VERTICAL STACKED NOTE: SEE ELEVATIONS FOR INSTALLATION DESIGN	FRP-1	FIBER REINFORCED POLYMER	MANUFACTURER: CRANE COMPOSITES STYLE NAME: GLASBORD COLOR: GRAY PANEL SIZE: 4' x 9' ACCESSORIES: OUTSIDE CORNER GUARD 55.1 6G1 20CG
RST-1	RUBBER STAIR TREAD & RISERS	MANUFACTURER: NORA BY INTERFACE STYLE NAME: NORAMENT SATURA STAIRTREAD COLOR: 5155 HERCULES						
SC-1	SEALED CONCRETE	MANUFACTURER: SHERWIN WILLIAMS STYLE NAME: ARMORSEAL REXTHANE 1 W/ ARMORSEAL ANTI-SLIP HI-WEAR ADDITIVE COLOR: CLEAR	PNT-1	[GENERAL/MAIN PAINT]	MANUFACTURER: SHERWIN WILLIAMS COLOR: REFLECTION SW7661 FINISH: EGG SHELL			
WF-1	WOOD FLOORING	MANUFACTURER: ROBBINS SYSTEM: AIR CHANNEL STAR LOCATION: GYM NOTE: SLAB DEPRESSION WILL DEPEND ON FINAL APPROVED FLOOR SYSTEM. CONTRACTOR TO COORDINATE.	PNT-2	[TRIM PAINT]	MANUFACTURER: SHERWIN WILLIAMS COLOR: ROCK BOTTOM SW7062 FINISH: SEMI-GLOSS			
WOC-1	WALK OFF CARPET	MANUFACTURER: BENTLEY STYLE NAME: ROUGH IDEA SHEAR COLOR: PLOT 8001 I 8 SIZE: 24' x 24' BACKING: AFIRMA II HARDBACK	PNT-3	[MAIN CEILING/SOFFIT PAINT]	MANUFACTURER: SHERWIN WILLIAMS COLOR: CEILING BRIGHT WHITE SW7007 FINISH: EGG SHELL			
RF-1	RUBBER FLOORING	MANUFACTURER: ECOSURFACES STYLE NAME: STRAIT RX COLOR: TBD ROLL SIZE: 7MM H x 72"W x 30'L LOCATION: AEROBICS ONLY NOTES: SEE FINISH PLAN FOR SEAM LOCATION	AWP-1	ACOUSTICAL WALL PANELS	MANUFACTURER: ACOUFELT STYLE: INTERSECT COLOR: SLATE THICKNESS: 12MM SIZE: 48" x 108"			
RF-2	POURED RUBBER FLOORING	MANUFACTURER: ROBBINS STYLE NAME: PLASTIC CLASSIC 90 LOCATION: TRACK NOTE: 2" LANE STRIPING BY FLOOR VENDOR. ALL LANE EDGES TO BE STRIPED IN COLOR TBD.	AWP-2	ACOUSTICAL WALL PANELS	MANUFACTURER: AVL SYSTEMS INC. STYLE: ACOUSTECH COLOR: 2A-DEEP SEA 9900-3054 2B-LIBERTY 9900-3053 2C-STERLING 9900-3057 2D-ALUMINUM 9900-3055 THICKNESS: 2" SIZE: 4'-0" X 4'-0"			



FINISH NOTES

FLOORS:	WALLS:	MISC:	RCP NOTES:
- REFER TO FLOOR FINISH PLANS FOR FLOOR PATTERN. CONTRACTOR TO NOTIFY INTERIOR DESIGNER BEFORE INSTALLATION OF FLOORING TO REVIEW DESIGN INTENT OF FLOOR PATTERN PLAN	- REFER TO FINISH PLANS & ELEVATIONS FOR LOCATION OF ACCENT PAINT COLORS	- DOOR LABELS ON RATED DOORS ARE TO REMAIN UNPAINTED	- ALL SPRINKLER HEADS IN FINISHED CEILINGS ALL SHALL BE CENTERED IN CEILING TILE. SPRINKLER HEADS SHALL NOT BE PAINTED.
- ALL FLOORING TRANSITIONS INCLUDING TRANSITIONS TO SIMILAR MATERIAL OR REDUCER STRIPS AND OTHER THRESHOLDS TO DISSIMILAR MATERIAL SHALL BE LOCATED AT THE CENTERLINE OF DOOR WHEN IN CLOSED POSITION. COLORS SHALL BE SELECTED IN CA. REFER TO DETAILS FOR TRANSITIONS BETWEEN FLOORING MATERIAL. CONTRACTOR TO PROVIDE TRANSITION SIZES APPROPRIATE FOR THICKNESS	- ALL HOLLOW METAL DOOR & WINDOW FRAMES TO BE PAINTED (PNT-2) UNLESS OTHERWISE NOTED	- PROVIDE BLOCKING AS REQUIRED AT ALL TELEVISION LOCATIONS - COORDINATE WITH OWNER'S EQUIPMENT	- INTERIOR CEILING HEIGHTS AS INDICATED ON THE REFLECTED CEILING PLANS.
- FLOORING MATERIALS ARE TO BE INSTALLED IN MANNER TO AVOID ALL SILVER CUTS LESS THAN 4" WIDE @ WALL PERIMETERS & MATERIAL TRANSITIONS. CONTACT DESIGNER IF JOBSITE CONDITIONS DIFFER	- ALL ACCESS PANELS AND MISCELLANEOUS METAL (RETURN AND AIR SUPPLY GRILLES, EXPANSION JOINTS, ETC.) LOCATED ON WALL SURFACES OR CEILING SURFACES TO BE PAINTED WALL OR CEILING COLOR U.N.O.	- PROVIDE BLOCKING FOR GRAB BARS AND TOILET ACCESSORIES IN RESTROOMS	- WHERE EXIT SIGNS ARE LOCATED ABOVE DOORWAYS, CENTER ABOUT DOOR, BUT MAINTAIN MINIMUM OVERHEAD CLEARANCE.
- INSTALL FLOORING UNDER ALL CASEWORK, MILLWORK, EQUIPMENT, & FURNITURE	- WALL BASE TO BE INSTALLED ON ALL WALLS, MILLWORK, AND CASEWORK U.N.O.	- REFER TO RCP FOR ACCENT PAINT COLOR LOCATIONS IN CEILING - WHERE CEILINGS ARE CALLED OUT TO BE PAINTED, BOTH CEILING AND SOFFIT/BULKHEAD WALLS ARE TO BE PAINTED ACCENT COLOR	- IN EXPOSED CEILINGS (EXP-2) ALL EXPOSED ELEMENTS NOT LIMITED TO TRUSS SYSTEM, ACOUSTICAL DECK, DUCTWORK, CONDUIT, AND PIPING TO BE PAINTED
- ALIGN VERTICAL GROUT LINES OF TILE BASE TO THOSE IN THE FLOOR TILE UNLESS NOTED OTHERWISE	- INSTALL FINISH STRIP EQUAL TO SCHLUTER 'JOLLY' AT ALL EXPOSED TILE EDGES & CORNERS	- NON ADA TOILET FIXTURES TO BE CENTERED IN STALL	- ALL GYP CEILINGS TO BE PAINTED (PNT-3) UNLESS OTHERWISE NOTED IN RCP
- CAULK AT ALL LOCATIONS WHERE FLOORING MEETS DOOR FRAMES, COLUMNS, ETC. CAULK COLOR TO MATCH ADJACENT SURFACE - PROVIDE TEST AREA TO BE APPROVED BY DESIGNER	- INSTALL 3MM EDGE BAND ON ALL PLASTIC LAMINATE COUNTERTOPS AND CABINETS.	- CAULK ALL DOOR FRAMES, MILLWORK, AND VIEW WINDOW FRAMES AFTER WALLCOVERING INSTALLATION IS COMPLETE. COLOR OF CAULK TO MATCH ADJACENT FINISH.	- DO NOT INSTALL CEILING TILE LESS THAN 6" IN ANY DIRECTION - WHEN POSSIBLE CENTER TILE IN ROOM.
	- ALL WINDOWS TO HAVE SOLID SURFACE (55-1) SILL U.N.O.	- GC TO PROVIDE SPECIFIED EXPANSION JOINT COVER AT ALL EXPOSED FINISH FLOOR, CEILING, AND WALL LOCATIONS	- AREAS WITH EXPOSED CEILINGS (EXP-2) SHALL HAVE CEILING PAINT COLOR EXTEND DOWN VERTICAL WALL SURFACE (24") - CONTRACTOR SHALL FIELD VERIFY EACH EXPOSED LOCATION WITH ARCHITECT AND OWNER PRIOR TO PAINTING.
	- GROUPEMENT LOCATIONS TO BE COORDINATED WITH OWNER	- ALL PARTIES RESPONSIBLE FOR DELIVERING FINISHES TO THE SITE SHALL CHECK AVAILABILITY OF QUANTITIES AND DELIVERY DATES AS SOON AS BID IS AWARDED	- PROVIDE 5% CEILING TILE 2' x 4' TO REMOVE SILVER TILES FROM CEILINGS
	- FIELD VERIFY ALL DIMENSIONS FOR CASEWORK & MILLWORK PRIOR TO FABRICATION & INSTALLATION	- PROVIDE EPOXY GROUT AT ALL LOCATIONS UNLESS OTHERWISE NOTED	
	- ALL EXPOSED ENDS AND EXPOSED INTERIORS OF CASEWORK MILLWORK TO RECEIVE MATCHING LAMINATES		

GMC

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ISSUE	DATE
DESIGN DEVELOPMENT	07/29/2024
CONSTRUCTION DOCUMENTS	12/09/2024
ADDENDUM #1	01/09/2025

DESIGNED BY: JAN W.
DRAWN BY: MARK V.
CHECKED BY:

BRISCOE PARK
2500 SAWYER PKWY SW, SNELLVILLE,
GA 30078
GMC # AATL230037

A8.01

sheet of

Briscoe Park Community Recreation Center

SNELLVILLE, GEORGIA

August 30, 2024

REPORT OF GEOTECHNICAL EXPLORATION

Prepared By



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August 30, 2024

The Honorable Ms. Barbara Bender
Mayor
City of Snellville
Snellville, Georgia

**RE: REPORT OF GEOTECHNICAL EXPLORATION
BRISCOE PARK COMMUNITY RECREATION CENTER
SNELLVILLE, GEORGIA
GMC PROJECT GATL240008**

Dear Mayor,

Goodwyn Mills Cawood, LLC (Geotechnical & Construction Services Division) is pleased to provide this report of geotechnical exploration performed for the above-referenced project. This report includes the results of field exploration, testing, and general recommendations for foundation design and site recommendations.

We appreciate the opportunity to perform this study during this phase of the project for you and look forward to continued participation during the construction phase of this project. If you have any questions pertaining to this report, or if we may be of further service, please do not hesitate to call.

Sincerely,
GOODWYN MILLS CAWOOD, LLC

Samuel W. Wheeler, PE
Geotechnical Engineer
Licensed Alabama 36367

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Executive Vice President
Licensed Georgia PE046948





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APPENDIX:

- Figure 1 – Site Location Plan
- Figure 2 – Boring Location Plan
- Soil Classification Chart
- Subsurface Diagram
- Boring Records
- Summary of Laboratory Results
- Field and Laboratory Procedures



1.0 EXECUTIVE SUMMARY

This report presents the results of our geotechnical investigation performed for the proposed Community Recreation Center to be located at T.W. Briscoe Park in Snellville, Georgia. Based on preliminary site layout plan provided by GMC, new developments will include a new 32,000 SF recreation center, tennis courts, and associated parking and drives. The site of the new construction is partially developed with existing tennis courts and multiple structures and parking areas. Portions of the site are undeveloped and wooded. The elevation of the site ranges from about EL 960 feet to EL 995 feet. The planned finish floor elevation (FFE) will be EL 982 feet in the gym area and EL 996 feet in the office area, therefore requiring cuts up to 3 feet in the gym and fills up to 7 feet in the office area.

Our geotechnical scope of work for this project included conducting geotechnical fieldwork, laboratory testing on selected samples, associated engineering analysis, and this geotechnical engineering report.

This report provides recommendations for foundation options, site preparation, and other geotechnical related conditions that might affect the proposed construction. The following geotechnical considerations were identified during our investigation:

- The site was explored by drilling a total of eleven (11) SPT borings to depths of about 5 to 30 feet below existing grade.
- Initially, most borings encountered existing fill to depths of approximately 3 to greater than 5 feet. While not encountered in our borings, organic laden material (OLM) will likely be encountered. It should be noted that OLM could vary across the site especially due to the larger trees found on site, along steep slopes, and in the low-lying drainage areas. Below the fill, the borings encountered mostly sandy silts and silty sands with layers of sandy lean and fat clays. Refusal to soil drilling methods was not encountered in any of the borings. The SPT N-values ranged from 4 to 50+ blows per foot in the native soils.
- Groundwater was encountered in borings B-1, B-2, B-3, B-4 and B-5 at depths of 12 to 19 feet below existing grades. Groundwater was not encountered in any of the other borings.
- Marginal consistency ($N \leq 8$ bpf) fill material was encountered in the upper 3 feet in two (B-2 and B-5) of the building borings. Boring B-2 is in a fill area, the marginal material may need to be undercut, depending on the results of a proofroll at the time of construction, prior to placement of fill. B-5 is roughly at grade and may require undercutting to provide foundation support. We recommend that an allowance be carried in the project to undercut and replace up to half of the building area 3 feet.
- Most of the on-site soils can be reused as compacted fill. Moisture conditioning of the soils will likely be required to achieve the recommended compaction requirements.
- The seismic site class for this site is "D".
- Conventional shallow foundations bearing in the existing lean clay or newly placed compacted fill should be sized for a net allowable bearing capacity of 1,500 pounds per square foot (psf).

The following sections provide additional detailed recommendations. The recommendations presented herein have been developed on the basis of the subsurface conditions encountered during field investigation and our understanding of the proposed construction. Should changes in the project criteria occur, a review must be made by GMC to determine if modifications to our recommendations will be required.



2.0 PROJECT INFORMATION AND SCOPE OF WORK

2.1 Project Information

A geotechnical exploration has been conducted for the proposed Community Recreation Center to be located at T.W. Briscoe Park in Snellville, Georgia. Based on preliminary site layout plan provided by GMC, new developments will include a new 32,000 SF recreation center, tennis courts, and associated parking and drives. The site of the new construction is partially developed with existing tennis courts and multiple structures and parking areas. Portions of the site are undeveloped and wooded. The elevation of the site ranges from about EL 960 feet to EL 995 feet. The planned finish floor elevation (FFE) will be EL 982 feet in the gym area and EL 996 feet in the office area, therefore requiring cuts up to 3 feet in the gym and fills up to 7 feet in the office area.

Maximum structural loads have been provided by PES Structural Engineers as 38 kips and 250 plf for columns and walls, respectively. If these loadings change, GMC should be notified so we may re-evaluate the recommendations.

2.2 Scope of Work

The purpose of this exploration was to perform a general evaluation of the subsurface soil conditions at the site and to provide general sitework recommendations, pavement recommendations, and foundation recommendations. The scope of the exploration and evaluation included performing eleven (11) SPT borings to a depth of 5 to 30 feet below existing grade. The scope also included performing an engineering evaluation of the materials encountered in the borings.

The scope of services for the geotechnical study did not include any environmental assessment for the presence or absence of wetlands or hazardous or toxic materials in the soil, surface water, groundwater, or air, on or below or around this site. Any statements in this report or on the boring records regarding odors, colors, or unusual or suspicious items or conditions are strictly for the information of the client.

3.0 FIELD EXPLORATION AND LABORATORY TESTING

3.1 Field Exploration

Field-testing employed by GMC was performed in general accordance with ASTM standards or generally accepted methods. The borings were located in the field by GMC personnel.

The borings were performed using an ATV mounted drill rig equipped with a rotary head and hollow stem augers (HSA). Soils were sampled using a two-inch OD split barrel sampler in accordance with ASTM D1586 driven with an automatic hammer.

3.2 Laboratory Analyses

The laboratory-testing program included visual classification of all soil samples and laboratory tests consisting of natural moisture contents, grain size analysis, and Atterberg limits tests performed on selected samples. The laboratory testing program was conducted in general accordance with applicable ASTM standards and the results are indicated on the boring records and summarized in the Appendix.

4.0 SITE AND SUBSURFACE CONDITIONS

4.1 General

At the time of this study, most of the proposed building area and planned parking areas were developed as a park with tennis courts, athletic field, multiple structures across the site and associated parking and drives. Elevations on the boring records were approximated from available topographic information and should be considered approximate. The following pictures show the site conditions at the time of our borings:



View towards B-3



View of B-2



View towards P-4



View towards P-3

4.2 Site Geology

Published geologic information indicates that the site is underlain by Granitic Schist of the Precambrian-Paleozoic Age of the Piedmont physiographic unit. This formation generally consists of metamorphic biotitic gneiss, mica-schist, or amphibolite as the parent bedrock.



The Piedmont is typically characterized by gently rolling topography and deeply weathered bedrock. The subsurface conditions can consist of up to 70 feet of weathered residual soils (saprolites) underlain by metamorphic and igneous rocks consisting of granite, schist, and gneiss.

The subsurface bedrock in this region has undergone differing rates of weathering, which often produces a considerable variation in depth to competent rock over short horizontal distances. It is also not unusual for lenses and large boulders of hard rock and zones of partially weathered rock to be present within the soil mantle above the general bedrock level. The typical residual soil profile consists of clayey soils near the surface, where soil weathering is more advanced, underlain by sandy silts and silty sands, which often consist of saprolites (native soils which maintain the original fabric of the parent rock).

4.3 Subsurface Conditions

The field exploration program consisted of performing eleven soil test borings to depths below existing grade of about 30 feet in the planned building area, 15 feet in the proposed tennis courts, and to about 5 feet in the parking, drive, and pond areas. The boring locations are shown on the attached Boring Location Plan, Figure 2 in the Appendix.

Initially, most of the borings encountered existing fill to a depth of 3 to greater than 5 feet below existing grades. Based on the blow counts encountered in the fill, it appears the fill was placed with some degree of compactive effort. While not encountered in the borings, organic laden material (OLM) will likely be encountered over most of the grassed areas of the site.

Below the organic laden material, the soil profile generally consisted of silty sands (SM) and sandy silts (ML) throughout the subsurface profile, with some layers of sandy clays. Refusal to soil drilling methods was not encountered in any of the borings. The SPT N-values ranged from 4 to 50+ blows per foot in borings.

The subsurface descriptions contained herein are of a generalized nature to highlight the major soil stratification features and soil characteristics. The boring records included in the Appendix should be reviewed for specific information as to individual boring locations. The stratification shown on the boring records represents conditions only at the actual boring locations. Variations may occur and should be expected between boring locations. The stratifications represent the approximate boundary between subsurface materials, and the transition may be gradual.

4.4 Groundwater Information

Groundwater was encountered in borings B-1, B-2, B-3, B-4, and B-5 at the time of drilling. Groundwater was encountered between 12 and 19 feet below existing grades in these borings. Groundwater was not encountered in any other borings at the time of drilling. The borings were backfilled prior to leaving and therefore no long-term groundwater level monitoring program was performed. It is important to note that the groundwater levels may not have stabilized in the borings due to the brevity of the field work. Furthermore, groundwater levels may vary due to seasonal conditions, proximity to bodies of water, and recent rainfall.



5.0 SITE PREPARATION

5.1 General

Based on the information provided to us and the data collected during the subsurface exploration, the site should be suitable for the proposed construction provided the site is prepared as provided herein. Moderately to highly plastic clays (CL, CH) were present in multiple borings in paved areas. If highly plasticity clays are present near proposed grades, undercutting of the fat clays may be required. In parking and drive areas, we recommend that a minimum of 12-inches of low plasticity soils be present below the base material and a minimum of 5-feet beyond the curb.

Marginal consistency ($N \leq 8$ bpf) fill material was encountered in the upper 3 feet in two (B-2 and B-5) of the building borings. Boring B-2 is in a fill area, the marginal material may need to be undercut, depending on the results of a proofroll at the time of construction, prior to placement of fill. B-5 is roughly at grade and may require undercutting to provide foundation support. **We recommend that an allowance be carried in the project to undercut and replace up to half of the building area 3 feet.** Actual areas and depths of undercutting should be determined at the time of construction.

5.2 Sitework Recommendations

Stripping

Sitework should begin with clearing and grubbing (stripping) of the site and should include the removal of any organic laden materials and existing asphalt paving. We recommend a minimum stripping depth of 6 inches to remove the OLM be included in the budget. It should be noted that OLM could vary across the site especially due to the wooded portions of the site and in any low-lying drainage areas.

Proofrolling

Once the site is at grade and prior to the placement of any new fill, the areas should be proofrolled with repeated passes of a loaded tandem axle dump truck or approved construction equipment as approved by the geotechnical engineer. Soils that are observed to rut or deflect excessively under the moving load should be undercut and replaced with properly compacted fill. The proofrolling, undercutting, and filling activities should be witnessed by a qualified representative of the geotechnical engineer and should be performed during a period of dry weather.

Attempts can first be made to compact the problem soils. If dry weather conditions exist prior to and at the time of construction, re-compaction and densification may prove successful. The soils should be scarified and the soil moisture should be adjusted to within 3 percent of optimum moisture for low plasticity soils. Once proofrolling has been accomplished, then re-compaction of the soils may be attempted.

5.3 Time of Year Site Preparation Considerations

The time of the year that the sitework begins can affect the project considerably. There are many considerations that need to be addressed prior to bidding a project that could affect the budget based on the time of year a project starts earthwork activities. The time of the year that the geotechnical borings were performed can provide a false sense of actual near surface conditions depending on the time of year and weather conditions.



Below are considerations that should be addressed based on the time of the year the earthwork is started.

“Wet” Season

During the “wet” season, the amount of undercutting may be greater, therefore resulting in greater excavation costs. The soils are typically proofrolled to determine their suitability for the placement of new fill or subgrade support. During the wet season, the surface soils have a higher moisture content and will tend to pump, therefore, hindering the placement of new fill. In addition, the drying time, time period between rain events, and temperature is not conducive to scarify soils, allow to dry, and recompact. At this time, the decision should be made by the owner to try either to scarify/dry/compact the in-place soils, which could take time, or undercut and replace with suitable material, which could increase the sitework costs. Based on our experience, the amount of undercut could be an additional 1 to 2 feet (or greater in localized areas), whereas in drier weather, lesser amounts of undercutting may be necessary, if recompaction or stabilization of soils left in place can be achieved.

Some undercut soils are not always “unsuitable” soil and can be moisture conditioned and reused as fill in the deep areas, if drying conditions are favorable.

“Dry” Season

During the “dry” season, the surface soils have a lower moisture content and will tend to “bridge” or “crust” softer underlying soils. They will generally allow the placement of new fill, but the crust can break down if repeated passes with heavily loaded equipment is persistent. In addition, new fill from cuts or other sources may need to be moisture conditioned prior to compaction. The soils can dry significantly, requiring the addition of water for proper compaction. Water trucks should be used, as necessary, by the contractor to condition the soils within the required specifications.

Contractor Responsibility

The grading contractors have the option of performing their own evaluation of the site conditions to assess the excavation considerations based on the time of year a project is bid. We strongly suggest that the grading contractors conduct their own exploration and evaluation of the site conditions and material management requirements to cost effectively develop the site.

5.4 Fill Placement

All fill materials in structural and paved areas should be placed in loose lifts not exceeding 8-inches in thickness for larger compacting equipment and in 4-inch loose lifts for hand operated equipment with a maximum particle size of 3 inches.

The following table summarizes the compacted fill requirements:



Location	Test Method	Compaction Required (minimum)	Moisture Content
Structural Areas, Fill Slopes, Pavement Areas and 5' beyond perimeter	ASTM D698 (Standard Proctor)	98%	-/+3 percentage points of optimum moisture
Upper 12 inches of subgrade in Pavement Areas and 5' beyond back of curb line	ASTM D698 (Standard Proctor)	98%	-/+3 percentage points of optimum moisture
Utility Trenches	ASTM D698 (Standard Proctor)	95%	-/+3 percentage points of optimum moisture

Select fill materials should meet the following characteristics:

Property	Requirement
Organic Material	≤ 5%
Liquid Limit	< 50%
Plasticity Index	≤ 25%
Maximum Dry Density	≥ 100 lb/ft ³
Maximum Particle Size	3 inches or less

Samples of the proposed fill materials, either from on-site or borrow, should be provided to the geotechnical engineer for Proctor testing and evaluation prior to placement. These soils will likely require moisture conditioning during reuse. Density tests should be performed to document compaction and moisture content of any earthwork involving soils and other applicable materials. Density tests should be performed frequently, with a recommended minimum of one test per 5,000 square feet per lift of fill in building areas and one test per 10,000 square feet per lift in other areas. Fill material must meet the specified density and moisture requirements to be considered acceptable.

5.5 Cut and Fill Slopes

The provided grading plan indicates cut and fill slopes with maximum slopes of 2.5(H):1(V). Although a detailed slope stability analysis was not part of this scope, the planned cut and fill slopes at the site will be considered to be stable.

Slopes constructed of compacted fill should be graded no steeper than 2.5(H):1(V). Slopes of 2.5(H):1(V) or flatter are preferable for mowing. The recommended fill slope orientation is dependent on the fill being placed in accordance with the fill placement section of this report.



It is difficult to construct fill on the above-specified slopes without leaving a loose, poorly compacted zone on the surface of the slope face. ***For this reason, we recommend that the fill slopes be slightly over-built, then cut back to firm, well-compacted soils prior to applying topsoil for a vegetative cover.***

Cut slopes should be graded no steeper than 2.5(H):1(V). If steeper slopes are required, the slope should be evaluated during construction and slope protection may be required to prevent shallow slips. The cut slope face material should be evaluated by the geotechnical engineer.

Slopes will experience excessive erosion if runoff is not controlled. Runoff from above must be channeled to cross the slope in paved ditch sections or flumes and not allowed to flow down the slope face. Maintenance should be planned for that includes removable of eroded material along the toe of slopes which may impede the drainage of water.

Material containing organics and boulder size rock fragments should not be used in engineered fill used to construct permanent slopes. The following precautions should be observed during construction of embankments and slopes that are required to maintain long-term stability:

- The foundation soils should be free of compressive soils that can consolidate under the added load of the embankment. The Geotechnical Engineer or his designated representative should evaluate the suitability of exposed foundation soils.
- Where a new embankment is placed against an existing slope, the existing slope should be benched to provide good contact, remove loose soils, and reduce the potential formation of weak zones. The benching should commence at the toe of the proposed slope and proceed upwards as fill is placed at a maximum of every 4 vertical feet. Inadequate benching could result in creep and perhaps slope failures. Benches should be wide enough to accommodate excavators and compaction equipment but at least 6 feet wide.
- To reduce erosion, both the cut and fill slopes should be promptly vegetated at the end of construction. Erosion control blankets may be required to reduce erosion and allow for vegetation. The fill soils, if placed on steep inclination, will be very susceptible to erosion by running water across the slope face. This susceptibility can be reduced by decreasing the slope angles, providing vegetation, and providing proper maintenance. The recommended slopes should result in a stable slope from a global stability standpoint; however, relatively shallow slips may occur. These are more of a maintenance problem but should be repaired when they occur.
- Since most fill slopes experience some long-term creep caused by gravity, we suggest the curb line of roadways or parking lots and buried utilities be set back from the slope crest a distance equal to 1/3 the slope height or 5 feet, whichever is greater. Buildings should be set back a minimum distance of 20 feet behind the crest of fill slopes.

5.6 Backfilling of Utility Trenches

Backfilling of storm drain and utility trenches must be performed in a controlled manner to reduce settlement of the fill and cracking of overlying floor slabs and pavements. We recommend that utility trenches be backfilled with acceptable borrow or on-site excavated soils in 6-inch loose lifts compacted with mechanical piston tampers to the requirements in section 5.4 of this report. Should seepage occur in utility trenches, it may be



necessary to “floor” the trench with dense-graded gravel to provide a working surface. If crushed stone is used to backfill utility trenches, we recommend that dense graded aggregate (DGA, compacted in lifts) be used.

5.7 Subgrade Restoration

Typically, due to the movement of heavy equipment and weather conditions, the subgrade soil becomes disturbed during construction. As a result, soils have a tendency to lose shear strength and support capability. Therefore, additional effort on the contractor’s part will be required to reduce traffic and limit disturbance of soils. It is essential that the subgrade be restored to a properly compacted condition based on optimum moisture and density.

6.0 FOUNDATION RECOMMENDATIONS

6.1 Shallow Foundations

Properly sized shallow foundations can be used for support of the building. The foundations may be sized using a **net allowable bearing pressure of 1,500 pounds per square foot (psf)** bearing in either the existing soils or compacted structural fill material. The frost depth in this area is about 12 inches. Footings should be founded at least 18 inches below the proposed final grade, however, uplift will likely govern the actual bearing depths of the footings. Total settlements of foundations due to the building loads are expected to be about 1 inch, with differential settlements of approximately ½ the total settlement value if the site is prepared in this manner.

Even though computed footing dimensions may be less, column footings and continuous footings should have minimum width dimensions of 24 inches and 18 inches, respectively. This allows for hand cleaning of materials disturbed during the excavation process and reduces the potential for punching shear failure.

All foundation excavations should be observed by the geotechnical engineer or his representative. The engineer can provide geotechnical guidance to the owner’s design team should any unforeseen foundation problems develop during construction. If areas of foundation surfaces prove to be unsuitable, the foundation may need to be over-excavated. The over-excavated area can be backfilled with “lean” concrete, controlled low strength material (CLSM), or well-compacted dense graded crushed stone up to the planned foundation bearing depth.

Foundation concrete should be placed the same day as footings are excavated so that the foundation bearing soils can remain near the existing moisture content. Foundation bearing surfaces should not be disturbed or left exposed during inclement weather. Saturation of the on-site soils can cause a loss of strength and increased compressibility. If bearing soils dry excessively, they can later well and heave foundations. Excavations for footings should be hand cleaned to remove loose soil or mud and the bearing surface should be thoroughly compacted.

If concrete placement is not possible immediately after excavation, we recommend that a thin layer (approximately 2 inches) of lean concrete (i.e., “mud mat”) or CLSM be placed on the bearing surface for protection after we have observed and evaluated the exposed bearing surfaces. If this layer is to be used, the footing should be over-excavated by the thickness of the mat. The mat is not to be considered as part of the concrete foundation section.



6.2 Lateral Resistance

Lateral loads may be resisted by the passive pressure of the soil acting against the side of the footing and/or the friction developed between the base of the footing and the underlying soil. For foundations cast against the residual soils or properly compacted fill, the passive pressure can be taken as an equivalent to the pressure exerted by a fluid weighing 300 pcf ($\phi = 25^\circ$, moist unit weight of soil = 120 pcf). A coefficient of friction of 0.35 may be used for calculating the frictional resistance at the base of the shallow footings.

The resistance values discussed are based on assumption that the foundations can withstand horizontal movements of up to ¼-inch. In addition, the excavation of the footing walls should be near vertical and the concrete placed directly against the soil. The passive pressure will be reduced if the loaded side is benched or sloped. Lateral resistance determined in accordance with these recommendations should be considered the total available resistance. The design should include a minimum factor of safety of 1.5.

6.3 Floor Slabs

It is our opinion that floor slabs can be built on-grade achieving support from properly compacted fills. For select fill subgrade soils compacted to at least 98 percent of the materials standard Proctor maximum dry density, we recommend a modulus of subgrade reaction of 125 psi/in (pci). Ground supported slabs should be founded on a minimum of 4 inches of compacted, granular materials with less than 10% passing the #200 sieve. This layer should provide uniform and immediate support of the slab and act as a capillary break. A vapor retarder should be used on top of the granular layer, as required by the building use.

On most projects, there is some time lag between initial grading and the time when the contractor is ready to place concrete for the slab-on-grade. Inclement weather just prior to placement of concrete for the slab-on-grade can result in trapped water in the granular layer.

6.4 Seismic Site Class

Subsurface information (SPT and soil classification) from the borings, published geologic information, and our experience was used to estimate the seismic site classification. Based upon this information, **we recommend a Seismic Class of D (Stiff Soil) for this site.** Based on our understanding of the project, we have assumed a Risk Category of III. If the Risk Category is different, the values below may need to be revised. The table below shows seismic design parameters from SEAOC seismic design map tool and referencing the ASCE 7-16 design code.

Parameter	Value	Description
S_s	0.184	MCER ground motion (for 0.2 second period)
S_1	0.085	MCER ground motion (for 1.0s period)
F_a	1.6	Site amplification factor at 0.2 second
F_v	2.4	Site amplification factor at 1.0 second
S_{DS}	0.197	Numeric seismic design value at 0.2 second SA
S_{D1}	0.135	Numeric seismic design value at 1.0 second SA



6.5 Below Grade Walls

Below grade walls must be designed to resist the lateral earth pressures that will be induced by the weight of the backfill materials, hydrostatic pressures on the walls, and any adjacent slab or foundation surcharge loads exerted on the walls. It is recommended that the walls be supported as outlined above and backfilled with a free draining material such as crushed stone/gravel or clean sand (less than 10% passing a No. 200 sieve). Positive drainage should be provided at the base of the walls to remove groundwater or seepage and to prevent an increase in hydrostatic pressures. A drainage system should be provided near or at the base of the walls to collect and remove groundwater and to prevent buildup of hydrostatic pressures unless the structures are designed to resist the hydrostatic pressures for the full structure depth that is below ground.

Walls that need to restrict horizontal movement at the top should be designed for "at rest" earth pressure conditions. Walls that are free to deflect should be designed for "active" earth pressure conditions. The "passive" earth pressure state should be used for soils supporting the retaining structure, such as toe backfill. Fine-grained materials should not be used as backfill directly behind walls. Free-draining crushed stone or gravel or sand should be used as backfill.

The table below presents recommended values of earth pressure coefficients for these backfill materials:

Soil Parameter	Backfill Type		
	SM, SC	SP, SW	GW, GP
Soil Unit Weight (pcf)	115	120	95
Buoyant unit Weight (pcf)	53	58	33
Angle of Internal Friction, Φ , deg	32	34	38
At rest Pressure Coefficient, K_o	0.47	0.44	0.38
Active Pressure Coefficient, K_a	0.31	0.28	0.24
Passive Pressure Coefficient, K_p	3.25	3.54	4.20
At-rest Equivalent Fluid Pressure, pcf (Above GWT, below GWT)	54	53	37
	87	88	75
Active Equivalent Fluid Pressure, pcf (Above GWT, below GWT)	35	34	23
	78	78	70
Passive Equivalent Fluid Pressure, pcf (Above GWT, below GWT)	374	424	399
	234	267	201

GWT - Groundwater Table

Samples of all backfill material should be evaluated for its use as such. The design values and recommendations presented above assume that the backfill behind the wall will be horizontal with no surcharge loads and that a permanent drainage system will be installed behind the retaining wall to prevent the increase of hydrostatic pressures. The noted backfill should extend from the wall and upward from the top of the mat foundations on a line 30 degrees from the vertical. If the structure is designed to resist hydrostatic pressures, we recommend that



the backfill as noted in that design be utilized. If there are adjacent structures that are to be located above the backfill zone, we recommend that the compaction follow Section 4.4 Fill Placement.

The on-site clays (CL, CH) are not acceptable as backfill behind the walls. Using a select material can significantly reduce the horizontal loads on the wall as well as improve the effectiveness of the drainage system. Compaction of backfill behind walls should be performed by lighter manual equipment. The wall should be properly braced and heavy equipment should not be used for compaction of the wall backfill material. No equipment or construction loads should be allowed within 10 feet of retaining walls or half the distance of the freestanding wall-height. This will prevent any surcharge loads from adding lateral earth pressures to the retaining wall. Below grade walls should be braced during any backfilling operations and monitored for movement.

7.0 PAVEMENTS

7.1 General

The pavement subgrade should consist of a minimum of 12-inches of low-plasticity soils as recommended in Section 5.0 Site Preparation. All pavement subgrade improvements should extend beneath the pavement surfaces and a minimum of 5 feet beyond the pavement edges with respect to drainage, compaction, density, and materials.

Typically, during construction, the pavement subgrade becomes disturbed because of traffic and environmental conditions. Prior to construction of pavements, it is essential that the subgrade be restored to a properly compacted condition. The specifications should include notes pertaining to subgrade restoration immediately prior to pavement construction. The on-site clayey and silty soils will have a tendency to lose shear strength (and consequently pavement support capability) if they are exposed to excessive moisture. Thus, proper moisture conditioning of the subgrade prior to placement of the pavement base course will result in better pavement performance.

Prior to base course or fill placement, we recommend that the pavement subgrade be proofrolled with a tandem axel dump truck. The proofrolling should be observed by the geotechnical engineer or his representative. The pavement subgrades should be thoroughly proofrolled prior to fine grading to identify soft soils not encountered during the mass grading of the site. Those soft areas should be undercut and replaced with properly compacted fill.

7.2 Reinforced Concrete Pavement

All Portland cement concrete pavements should contain 3.0 to 6.5 percent entrained air assuming the mix will contain ¾-inch to 1-inch nominal maximum aggregate size. Concrete slump should be no more than 2.5 inches when placed by slip forming and no more than 4 inches for non-slip formed concrete. Minimum 28-day concrete compressive strength should be 4,000 psi and minimum flexural strength of 550 psi.

Based upon the subsurface conditions, anticipated traffic, and our experience, minimum rigid concrete pavement sections are provided below for reinforced concrete pavement.



Pavement Area	Minimum Rigid Concrete Pavement Thickness	Dense Graded Base Thickness
Parking for Light Automobiles	7.0 inches	4.0 inches Graded Aggregate Base (98% Modified density)
Drives and Dumpster Pad	8.0 inches	6.0 inches Graded Aggregate Base (100% Modified density)

Pavement joints, reinforcing, and details should be designed in accordance with the applicable American Concrete Institute (ACI) standards.

7.3 Flexible Pavement

Traffic information was not available. Based on the size and anticipated use of the parking and drive areas, we anticipate light-duty traffic classification (passenger vehicles with occasional trucks) pavements.

Minimum Light Duty Asphaltic Paving Recommendations

Pavement Materials	Pavement Thickness (in.)
Wearing Surface (9.5 mm superpave surface)	1
Binder (19 mm superpave intermediate)	2
Graded Aggregate Base (GAB) Compacted to 98% Modified Proctor Density	6

Areas subjected to heavy duty traffic should include a heavy-duty pavement section as follows:

Minimum Heavy Duty Asphaltic Paving Recommendations

Pavement Materials	Pavement Thickness (in.)
Wearing Surface (9.5 mm superpave surface)	1.5
Binder (19 mm superpave intermediate)	3
Graded Aggregate Base (GAB) Compacted to 98% Modified Proctor Density	8

The pavement sections represent the minimum recommended thickness for a pavement section designed for a 15-year life. However, periodic maintenance should be anticipated over the pavement design life. All pavement



materials and construction procedures should conform to the Georgia Department of Transportation's *Standard Specifications for Highway Construction*, latest edition. The graded aggregate base (GAB) stone should be an aggregate as outlined in Section 815, Group I, and should be compacted to at least 98 percent of the modified Proctor (AASHTO T180/ASTM D1557) maximum dry density. The hot mix asphalt should conform to Section 828.

If the pavement loading conditions, traffic information, or required ESALs become available, GMC should be allowed to review our recommendations. It should be noted that the aforementioned pavement section is based on the assumption that the recommended site preparation procedures are followed. These recommendations have not been adjusted to meet any minimum local pavement standards that may exist and should be reviewed with and approved by all authorities having jurisdiction of such.

8.0 REPORT LIMITATIONS

The recommendations submitted are based on the available soil information obtained by GMC and design details furnished by GMC for the proposed project. If there are any revisions to the plans for this project or if deviations from the subsurface conditions noted in this report are encountered during construction, we should be notified immediately to determine if changes in the foundation, or other, recommendations are required. If GMC is not retained to perform these functions, GMC cannot be responsible for the impact of those conditions on the performance of the project.

The findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed.

After the plans and specifications are more complete, the geotechnical engineer should be provided the opportunity to review the final design plans and specifications to check that our engineering recommendations have been properly incorporated into the design documents. At that time, it may be necessary to submit supplementary recommendations.

We emphasize that this report was prepared for design and informational purposes only and may not be sufficient to prepare an accurate construction budget. Contractors reviewing this report should acknowledge that the recommendations contained herein are for design and informational purposes only. In no case should this report be utilized as a substitute for the development of specific earthwork specifications.

The information contained in this report is not intended, nor is sufficient, to aid in the design of segmental or mechanically stabilized earth (MSE) retaining walls. Segmental or MSE wall designers and builders should not rely on this report and should perform independent analysis to determine all necessary soil characteristics for use in their wall design, including but not limited to, soil shear strengths, bearing capacities, global stability, etc.



APPENDIX

Figure 1 – Site Location Plan

Figure 2 – Boring Location Plan

Soil Classification Chart



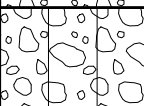
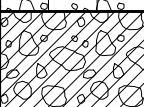
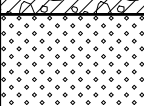
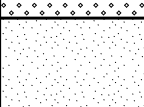
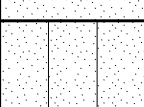
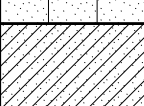
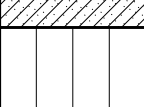
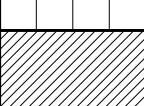
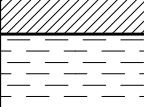
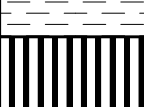
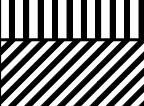
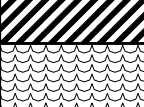
Subsurface Diagram

Boring Records

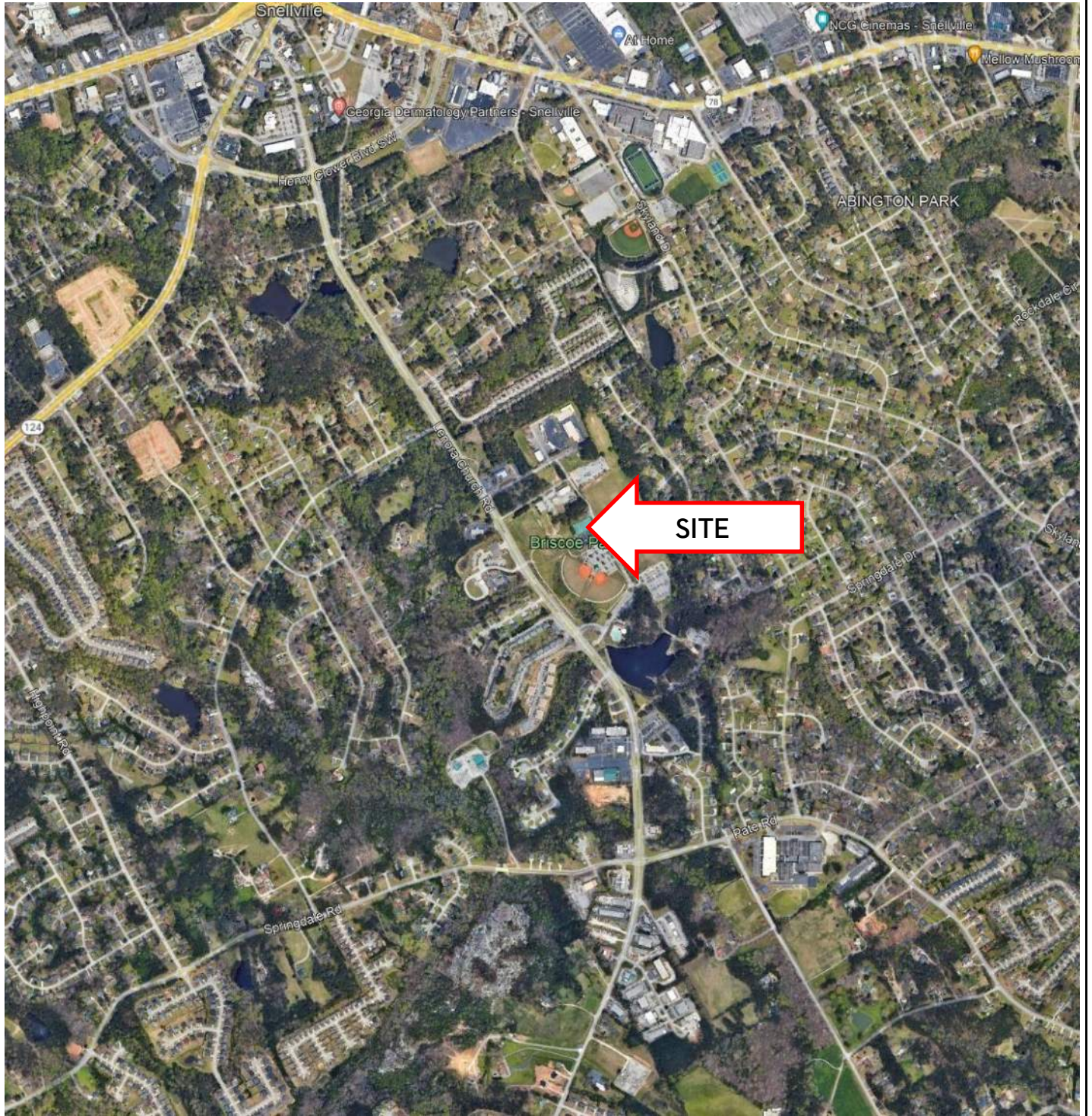
Summary of Laboratory Results

Field and Laboratory Procedures

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS		
			GRAPH	LETTER			
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES		
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES		
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES		
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)			SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
					SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES	
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)			SM	SILTY SANDS, SAND - SILT MIXTURES	
					SC	CLAYEY SANDS, SAND - CLAY MIXTURES	
			SILTS AND CLAYS LIQUID LIMIT LESS THAN 50			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
						CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY			
			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS			
			CH	INORGANIC CLAYS OF HIGH PLASTICITY			
HIGHLY ORGANIC SOILS			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS			
			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS			

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS



Google Earth Imagery dated 3/3/2022

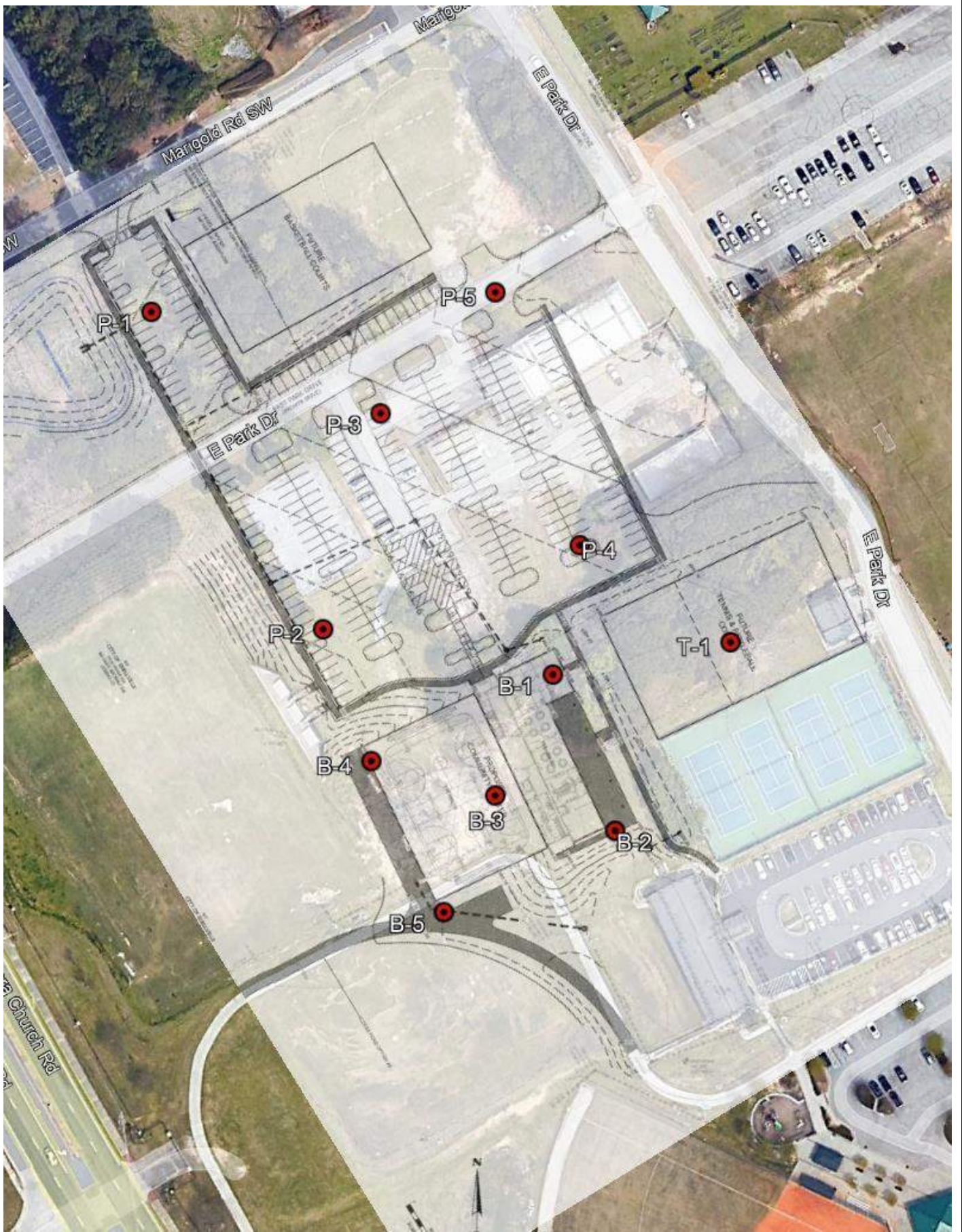
REF. SHEET:
DESCRIPTION:

SITE LOCATION PLAN
Briscoe Park Community Rec Center
Snellville, GA

Figure 1

GMC# GATL240008
DATE: 8-28-2024
DRAWN BY:





REF. SHEET:
DESCRIPTION:

BORING LOCATION PLAN
Proposed Commercial Development
Lafayette, GA

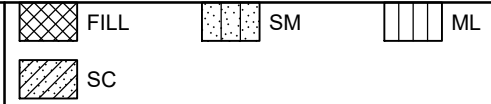
Figure 2

GMC # GATL240008
 DATE: 8-28-2024
 DRAWN BY:





SUBSURFACE DIAGRAM Building Profile



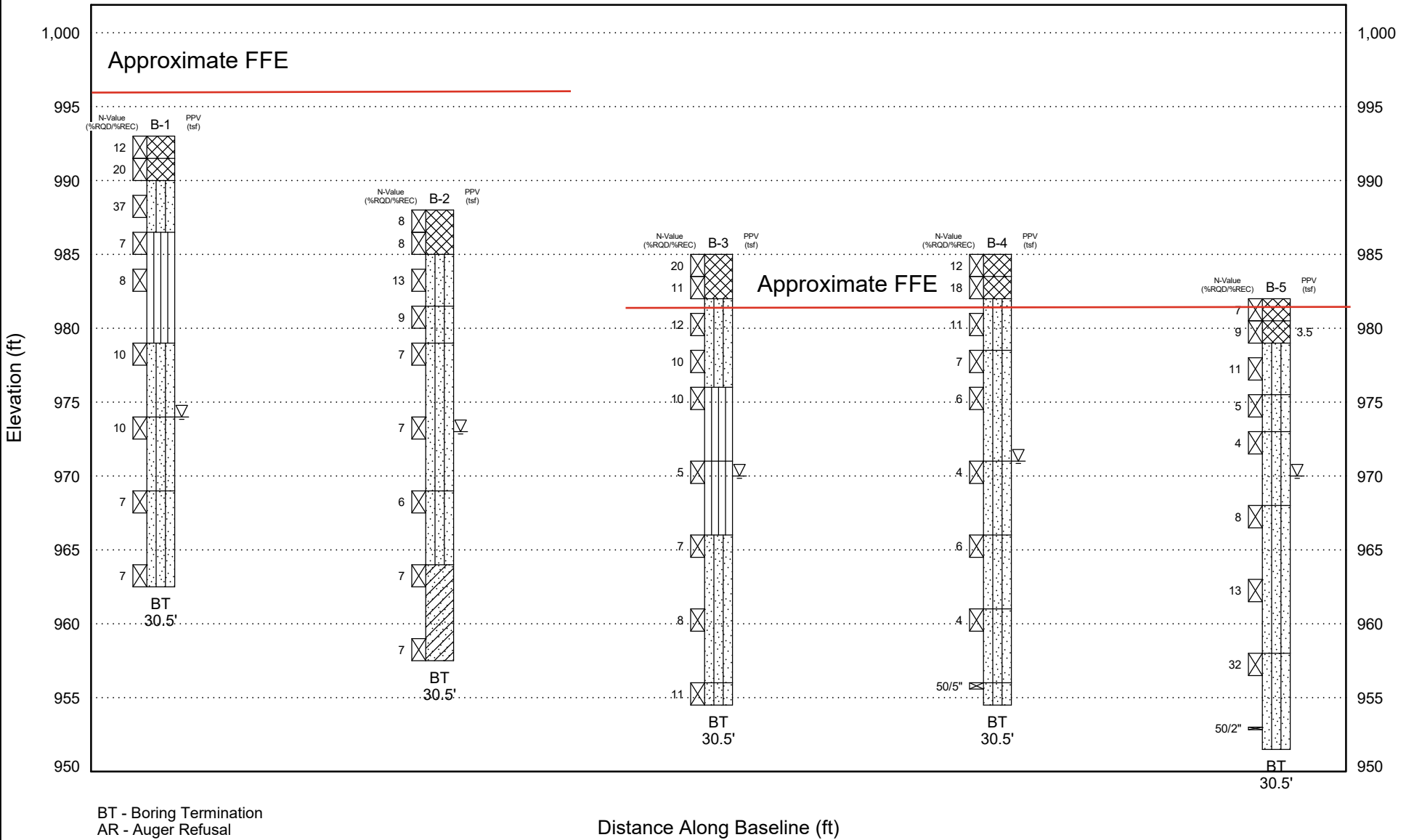
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PROJECT NAME Briscoe Park Community Recreation Center

PROJECT NUMBER GATL240008

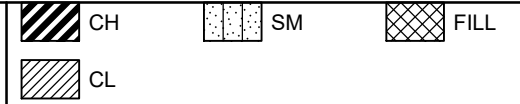
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BT-AR DEPTH LOG - GATL240008 BRISCOE PARK COMMUNITY RECREATION CENTER.GPJ - GMC DATA TEMPLATE.GDT - 8/28/24

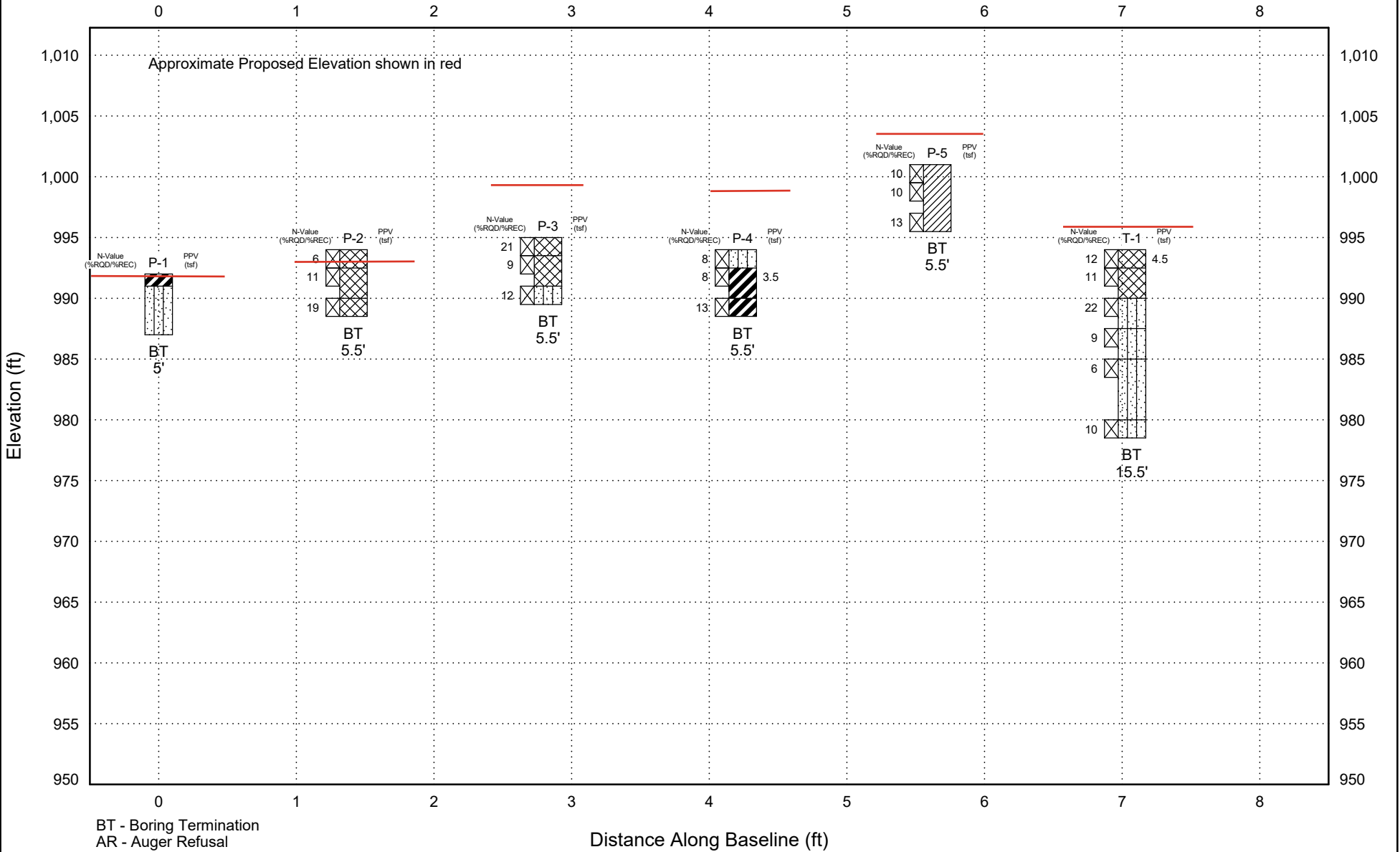




SUBSURFACE DIAGRAM Pavement/Tennis Profile



CLIENT City of Snellville PROJECT NAME Briscoe Park Community Recreation Center
PROJECT NUMBER GATL240008 PROJECT LOCATION Snellville, GA



BT-AR DEPTH LOG - GATL240008 BRISCOE PARK COMMUNITY RECREATION CENTER.GPJ - GMC DATA TEMPLATE.GDT 8/28/24



CLIENT City of Snellville **PROJECT NAME** Briscoe Park Community Recreation Center
PROJECT NUMBER GATL240008 **PROJECT LOCATION** Snellville, GA
DATE STARTED 7/24/24 **COMPLETED** 7/24/24 **GROUND ELEVATION** 992 ft **HOLE SIZE** 4
DRILLING CONTRACTOR GM&C **GROUND WATER LEVELS:**
DRILLING METHOD HAND AUGER **AT TIME OF DRILLING** None Encountered
LOGGED BY D. Gamlin **CHECKED BY** K. Wales **AT END OF DRILLING** ---
NOTES _____ **AFTER DRILLING** ---

ELEVATION (ft)	DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	DCP BLOW COUNTS (1-3/4" Increment)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
990	0		SANDY FAT CLAY (CH), brown - with organics	GB	8-13-13							
990			SILTY SAND (SM), red	GB	15-15-14							
				GB	21-40-							
				GB	47--							
	5		Hand Auger was terminated at 5.0 feet.	GB	42--							
985				GB	24-23-25							
980	10											
975	15											
970	20											
965	25											
960	30											
	35											

2.GMC HAND AUGER (DCP) GATL240008 BRISCOE PARK COMMUNITY RECREATION CENTER.GPJ GMC DATA TEMPLATE.GDT 8/30/24



SUMMARY OF LABORATORY RESULTS

CLIENT City of Snellville

PROJECT NAME Briscoe Park Community Recreation Center

PROJECT NUMBER GATL240008

PROJECT LOCATION Snellville, GA

Borehole	Depth	Liquid Limit	Plastic Limit	Plasticity Index	Max. Sieve Size Tested (mm)	%<#200 Sieve	Natural Moisture (%)	Classification	Opt. Moisture Content (%)	Max Dry Density (pcf)	Specific Gravity
B-1	0-1.5						10.5				
B-1	1.5-3						9.0				
B-1	4-5.5	NP	NP	NP	2.36	38	13.1	SM			
B-1	6.5-8						16.5				
B-1	9-10.5						23.3				
B-2	0-1.5						12.8				
B-2	1.5-3						15.9				
B-2	4-5.5						22.7				
B-2	6.5-8						23.3				
B-2	9-10.5						21.2				
B-3	0-1.5						10.2				
B-3	1.5-3						12.3				
B-3	4-5.5						16.7				
B-3	6.5-8						13.2				
B-3	9-10.5						25.9				
B-4	0-1.5						18.4				
B-4	1.5-3	40	21	19	4.75	53	16.5	CL			
B-4	4-5.5						20.6				
B-4	6.5-8						22.8				
B-4	9-10.5						26.7				
B-5	0-1.5						16.7				
B-5	1.5-3						18.9				
B-5	4-5.5	NP	NP	NP	2	30	23.0	SM			
B-5	6.5-8						27.8				
B-5	9-10.5						30.7				
P-1	1-5	NP	NP	NP	9.5	40	15.8	SM			
P-2	0-1.5						10.9				
P-2	1.5-3						19.5				
P-2	4-5.5						24.2				
P-3	0-1.5						3.9				
P-3	1.5-3	59	26	33	2	71	24.5	CH			
P-3	4-5.5						21.0				
P-4	0-1.5						10.2				
P-4	1.5-3						19.8				
P-4	4-5.5						28.7				
P-5	0-1.5	48	23	25	12.5	67	23.8	CL			
P-5	1.5-3						19.7				
P-5	4-5.5						19.1				
T-1	0-1.5						17.6				
T-1	1.5-3	51	28	23	2.36	68	26.1	CH			
T-1	4-5.5						16.2				
T-1	6.5-8						17.4				
T-1	9-10.5						17.2				

1.USCS SUMMARY GATL240008 BRISCOE PARK COMMUNITY RECREATION CENTER.GPJ GMC DATA TEMPLATE.GDT 8/27/24



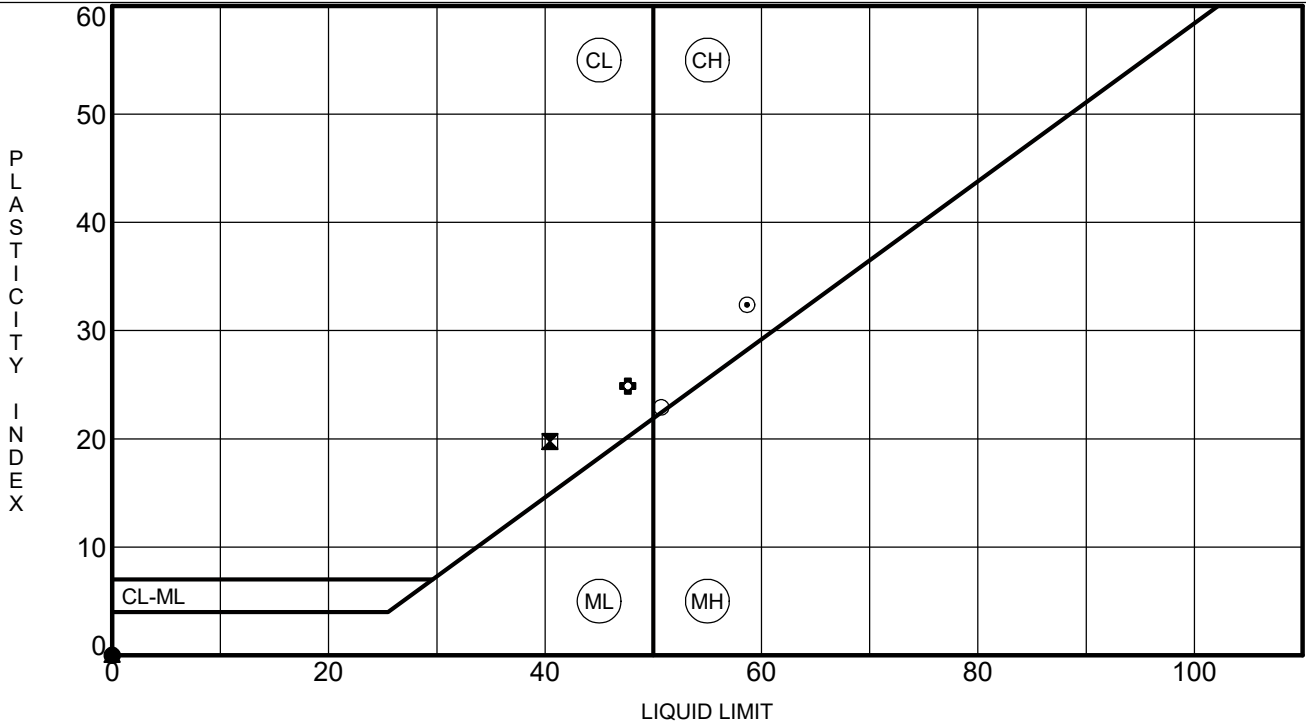
ATTERBERG LIMITS' RESULTS

CLIENT City of Snellville

PROJECT NAME Briscoe Park Community Recreation Center

PROJECT NUMBER GATL240008

PROJECT LOCATION Snellville, GA



	Specimen Identification	LL	PL	PI	Fines	Classification
●	B-1	4.0-5.5	NP	NP	38	SILTY SAND(SM)
☒	B-4	1.5-3.0	40	21	53	SANDY LEAN CLAY(CL)
▲	B-5	4.0-5.5	NP	NP	30	SILTY SAND(SM)
★	P-1	1.0-5.0	NP	NP	40	SILTY SAND(SM)
⊙	P-3	1.5-3.0	59	26	71	FAT CLAY with SAND(CH)
⊕	P-5	0.0-1.5	48	23	67	SANDY LEAN CLAY(CL)
○	T-1	1.5-3.0	51	28	68	SANDY FAT CLAY(CH)



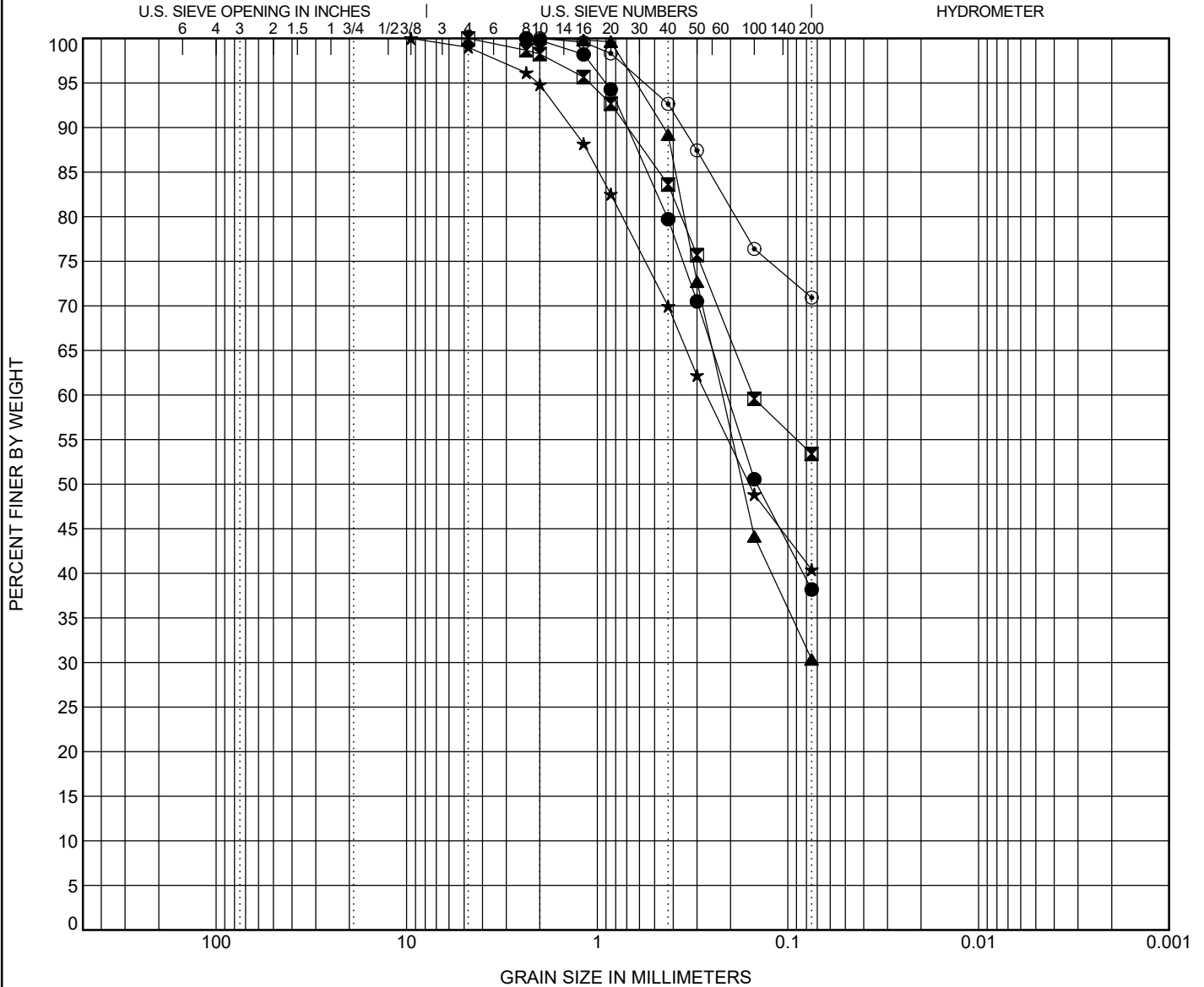
GRAIN SIZE DISTRIBUTION

CLIENT City of Snellville

PROJECT NAME Briscoe Park Community Recreation Center

PROJECT NUMBER GATL240008

PROJECT LOCATION Snellville, GA



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● B-1 4.0-5.5	SILTY SAND(SM)					NP	NP	NP		
■ B-4 1.5-3.0	SANDY LEAN CLAY(CL)					40	21	19		
▲ B-5 4.0-5.5	SILTY SAND(SM)					NP	NP	NP		
★ P-1 1.0-5.0	SILTY SAND(SM)					NP	NP	NP		
⊙ P-3 1.5-3.0	FAT CLAY with SAND(CH)					59	26	33		

Specimen Identification	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● B-1 4.0-5.5	2.36	0.208			0.0	61.8	38.2	
■ B-4 1.5-3.0	4.75	0.153			0.0	46.6	53.4	
▲ B-5 4.0-5.5	2	0.22			0.0	69.6	30.4	
★ P-1 1.0-5.0	9.5	0.268			1.0	58.6	40.4	
⊙ P-3 1.5-3.0	2				0.0	29.1	70.9	

7.GRAIN SIZE GATL240008 BRISCOE PARK COMMUNITY RECREATION CENTER.GPJ GMC DATA TEMPLATE.GDT 8/27/24



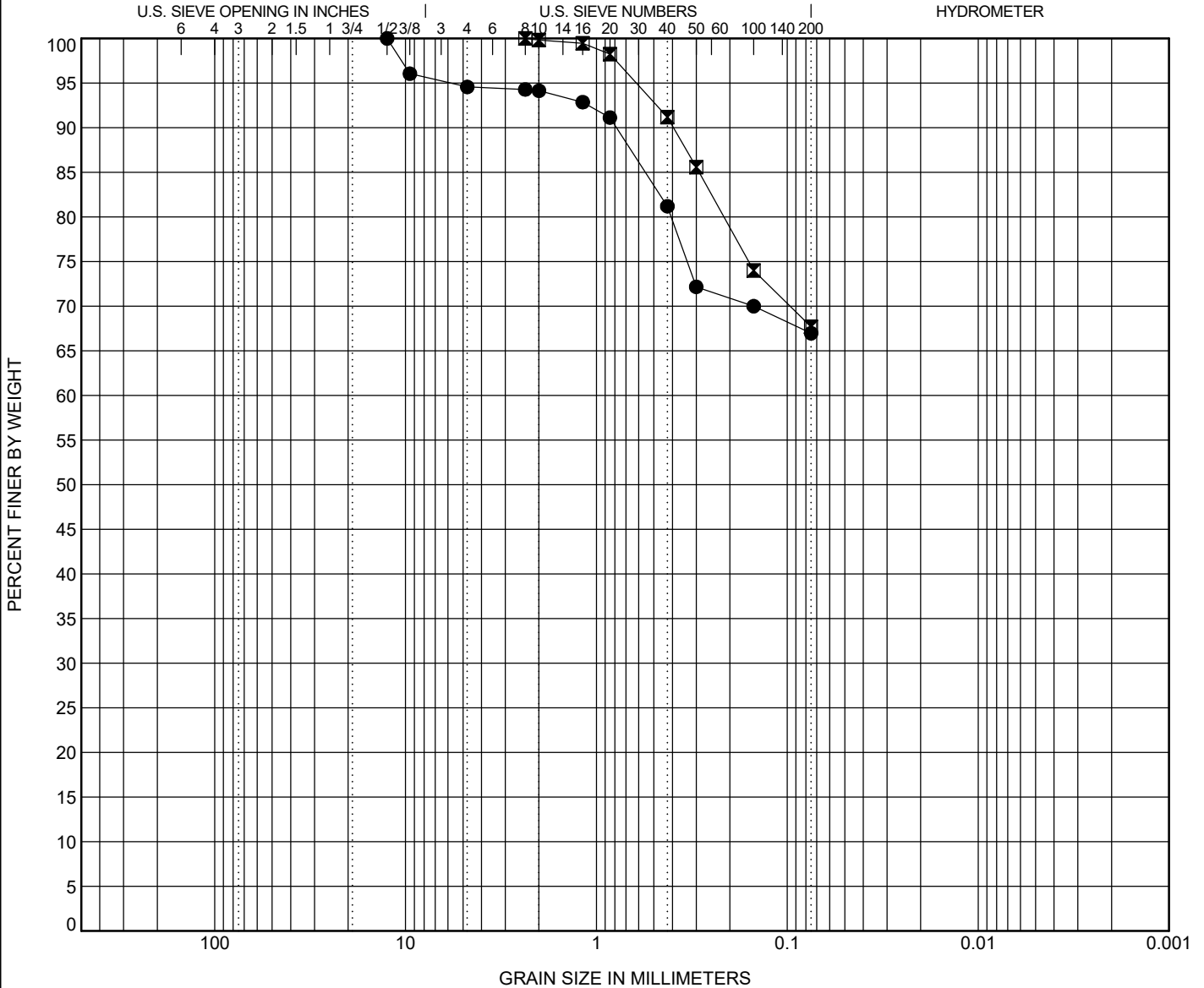
GRAIN SIZE DISTRIBUTION

CLIENT City of Snellville

PROJECT NAME Briscoe Park Community Recreation Center

PROJECT NUMBER GATL240008

PROJECT LOCATION Snellville, GA



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification			Classification			LL	PL	PI	Cc	Cu
●	P-5	0.0-1.5	SANDY LEAN CLAY(CL)			48	23	25		
☒	T-1	1.5-3.0	SANDY FAT CLAY(CH)			51	28	23		
Specimen Identification			D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	P-5	0.0-1.5	12.5				5.4	27.6		67.0
☒	T-1	1.5-3.0	2.36				0.0	32.3		67.7

7. GRAIN SIZE GATL240008 BRISCOE PARK COMMUNITY RECREATION CENTER.GPJ GMC DATA TEMPLATE.GDT 8/27/24



FIELD TEST PROCEDURES

General

The general field procedures employed by Goodwyn Mills Cawood, LLC (GMC), are summarized in the American Society for Testing and Materials (ASTM) Standard D420 which is entitled "Investigating and Sampling Soil and Rock". This recommended practice lists recognized methods for determining soil and rock distribution and groundwater conditions. These methods include geophysical and in-situ methods as well as borings.

The detailed collection methods used during this exploration are presented in the following paragraphs.

Standard Drilling Techniques

General: To obtain subsurface samples, borings are drilled using one of several alternate techniques depending upon the subsurface conditions. These techniques are as follows:

In Soils:

- a) Continuous hollow stem augers.
- b) Rotary borings using roller cone bits or drag bits, and water or drilling mud to flush the hole.
- c) "Hand" augers.

In Rock:

- a) Core drilling with diamond-faced, double or triple tube core barrels.
- b) Core boring with roller cone bits.

Hollow Stem Auger: A hollow stem auger consists of a hollow steel tube with a continuous exterior spiral flange termed a flight. The auger is turned into the ground, returning the cuttings along the flights. The hollow center permits a variety of sampling and testing tools to be used without removing the auger.

Rotary Borings: Rotary drilling involves the use of roller cone or drag type drill bits attached to the end of drill rods. A flushing medium, normally water or bentonite slurry, is pumped through the rods to clear the cuttings from the bit face and flush them to the surface. Casing is sometimes set behind the advancing bit to prevent the hole from collapsing and to restrict the penetration of the drilling fluid into the surrounding soils. Cuttings returned to the surface by the drilling fluid are typically collected in a settling tank, to allow the fluid to be recirculated.

Hand Auger Boring: Hand auger borings are advanced by manually twisting a 4" diameter steel bucket auger into the ground and withdrawing it when filled to observe the sample collected. Posthole diggers are sometimes used in lieu of augers to obtain shallow soil samples. Occasionally these hand auger borings are used for driving 3-inch diameter steel tubes to obtain intact soil samples.

Sampling and Testing in Boreholes

General: Several techniques are used to obtain samples and data in soils; however, the most common methods in this area are:

- a) Standard Penetrating Testing
- b) Water Level Readings

These procedures are presented below. Any additional testing techniques employed during this exploration are contained in other sections of the Appendix.

Standard Penetration Testing: At regular intervals, the drilling tools are removed and soil samples obtained with a standard 2-inch diameter split tube sampler connected to an A or N-size rod. The sampler is first



seated 6 inches to penetrate any loose cuttings, and then driven an additional 12 inches with blows of a 140-pound safety hammer falling 30 inches. Generally, the number of hammer blows required to drive the sampler the final 12 inches is designated the "penetration resistance" or "N" value, in blows per foot (bpf). The split barrel sampler is designed to retain the soil penetrated, so that it may be returned to the surface for observation. Representative portions of the soil samples obtained from each split barrel sample are placed in jars, sealed and transported to our laboratory.

The standard penetration test, when properly evaluated, provides an indication of the soil strength and compressibility. The tests are conducted according to ASTM Standard D1586. The depths and N-values of standard penetration tests are shown on the Boring Records. Split barrel samples are suitable for visual observation and classification tests but are not sufficiently intact for quantitative laboratory testing.

Water Level Readings: Water table readings are normally taken in the borings and are recorded on the Boring Records. In sandy soils, these readings indicate the approximate location of the hydrostatic water table at the time of our field exploration. In clayey soils, the rate of water seepage into the borings is low and it is generally not possible to establish the location of the hydrostatic water table through short-term water level readings. Also, fluctuation in the water table should be expected with variations in precipitation, surface run-off, evaporation, and other factors. For long-term monitoring of water levels, it is necessary to install piezometers.

The water levels reported on the Boring Records are determined by field crews immediately after the drilling tools are removed, and several hours after the borings are completed, if possible. The time lag is intended to permit stabilization of the groundwater table, which may have been disrupted by the drilling operation.

Occasionally the borings will cave-in, preventing water level readings from being obtained or trapping drilling water above the cave-in zone. The cave-in depth is measured and recorded on the Boring Records.

Boring Records

The subsurface conditions encountered during drilling are reported on a field boring record prepared by the Driller. The record contains information concerning the boring method, samples attempted and recovered, indications of the presence of coarse gravel, cobbles, etc., and observations of ground water. It also contains the driller's interpretation of the soil conditions between samples. Therefore, these boring records contain both factual and interpretive information. The field boring records are kept on file in our office.

After the drilling is completed, a geotechnical professional classifies the soil samples and prepares the final Boring Records, which are the basis for all evaluations and recommendations. The following terms are taken from ASTM D2487 or Deere's Technical Description of Rock Cores for Engineering Purposes, Rock Mechanical Engineering Geology 1, pp. 18-22.

Relative Density of Cohesionless Soils From Standard Penetration Test		Consistency of Cohesive Soils	
Very Loose	≤ 4 bpf	Very Soft	≤ 2 bpf
Loose	5 - 10 bpf	Soft	3 - 4 bpf
Medium	11 - 30 bpf	Medium	5 - 8 bpf
Dense	31 - 50 bpf	Stiff	9 - 15 bpf
Very Dense	> 50 bpf	Very Stiff	16 - 30 bpf
(bpf = blows per foot, ASTM D 1586)		Hard	> 30 bpf



Relative Hardness of Rock		Particle Size Identification	
<p>Very Soft Rock disintegrates or easily compresses to touch; can be hard to very hard soil.</p> <p>Soft Rock may be broken with fingers.</p> <p>Moderately Soft Rock may be scratched with a nail, corners and edges may be broken with fingers.</p> <p>Moderately Hard Rock a light blow of hammer is required to break samples.</p> <p>Hard Rock a hard blow of hammer is required to break sample.</p>	Boulders	Larger than 12"	
	Cobbles	3" - 12"	
	Gravel		
	Coarse	3/4" - 3"	
	Fine	4.76mm - 3/4"	
	Sand		
Coarse	2.0 - 4.76 mm		
Medium	0.42 - 2.00 mm		
Fine	0.42 - 0.074 mm		
	Fines (Silt or Clay)	Smaller than 0.074 mm	
Rock Continuity		Relative Quality of Rocks	
$\text{RECOVERY} = \frac{\text{Total Length of Core}}{\text{Length of Core Run}} \times 100 \%$		$\text{RQD} = \frac{\text{Total core, counting only pieces } > 4" \text{ long}}{\text{Length of Core Run}} \times 100 \%$	
<u>Description</u>	<u>Core Recovery %</u>	<u>Description</u>	<u>RQD %</u>
Incompetent	Less than 40	Very Poor	0 - 25 %
Competent	40 - 70	Poor	25 - 50 %
Fairly Continuous	71 - 90	Fair	50 - 75 %
Continuous	91 - 100	Good	75 - 90 %
		Excellent	90 - 100 %



LABORATORY TESTING

GENERAL

The laboratory testing procedures employed by Goodwyn Mills Cawood, LLC (GMC) are in general accordance with ASTM standard methods and other applicable specifications.

Several test methods, described together with others in this Appendix, were used during the course of this exploration. The Laboratory Data Summary sheet indicates the specific tests performed.

SOIL CLASSIFICATION

Soil classifications provide a general guide to the engineering properties of various soil types and enable the engineer to apply past experience to current problems. In our investigations, samples obtained during drilling operations are examined in our laboratory and visually classified by an engineer. The soils are classified according to consistency (based on number of blows from standard penetration tests), color and texture. These classification descriptions are included on our "Boring Records".

The classification system discussed above is primarily qualitative and for detailed soil classification, two laboratory tests are commonly performed: grain size tests and plasticity tests. Using these test results the soil can be classified according to the AASHTO or Unified Classification Systems (ASTM D-2487). Each of these classification systems and the in-place physical soil properties provides an index for estimating the soil's behavior. The soil classification and physical properties obtained are presented in this report.

POCKET PENETROMETER TEST

A pocket penetrometer test is performed by pressing the tip of a small, spring-loaded penetrometer with even pressure to a prescribed depth into a soil sample. This test yields a value for unconfined compressive strength, which may be correlated with unconfined compressive strengths obtained by other laboratory methods.

MOISTURE CONTENT

Moisture contents are determined from representative portions of the specimen. The soil is dried to a constant weight in an oven at 100° C and the loss of moisture during the drying process is measured. From this data, the moisture content is computed.

ATTERBERG LIMITS

Liquid Limit (LL), Plastic Limit (PL) and Shrinkage Limit (SL) tests are performed to aid in the classification of soils and to determine the plasticity and volume change characteristics of the materials. The Liquid Limit is the minimum moisture content at which a soil will flow as a heavy viscous fluid. The Plastic Limit is the minimum moisture content at which the soil behaves as a plastic material. The Shrinkage Limit is the moisture content below which no further volume change will take place with continued drying. The Plasticity Index (PI) is the numeric difference of Liquid Limit and Plastic Limit and indicates the range of moisture content over which a soil remains plastic. These tests are performed in accordance with ASTM D4318, D4943 and D427.

PARTICLE SIZE DISTRIBUTION

The distribution of soils coarser than the No. 200 (75-mm) sieve is determined by passing a representative specimen through a standard set of nested sieves. The weight of material retained on each sieve is determined and the percentage retained (or passing) is calculated.



A specimen may be washed through only the No. 200 sieve, if the full range of particle sizes is not required. The percentage of material passing the No. 200 sieve is reported.

The distribution of materials finer than the No. 200 sieve is determined by use of a hydrometer. The particle sizes and distribution are computed from the time rate of settlement of the different size particles while suspended in water. These tests are performed in accordance with ASTM D-421, D-422 and D-1140.

Meeting Sign in Sheet

Date: Tuesday, January 7th, 2025

Meeting Subject: Snellville Briscoe Park Community Center

Location: 2500 Sawyer PKWY SW, Snellville GA 30078



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Jan Wachenfeld	Goodwyn Mills Cawood	678.644.5212	Jan.wachenfeld@gmcnetwork.com
Zach Travis	Ward-Humphrey General Contractors	470-812-1500	Ztravis@ward-humphrey.com
Shawn Groebner	Caliber 1 Construction	678 231832	sgroebner@caliber1construction.com
JAN BENNETT	BRAYSON CONSTRUCTORS	678-346-0504	jbennett@braysonconstructors.com
JOHN SHEAHON	SMITHBUILT CONSTRUCTION	770 315 5225	Jsheahan@smithbuiltco.com
BEN PRICE	Kevin Price Construction	706-548-6500	bprice@KPGC.NET
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Paul Hoover	COOPER & COMPANY	470-656-7382	pbids@cooperco.com
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Fenil Shah	F.S. Scarborough, LLC.	470-398-8770	fshah@fssc Scarborough.com

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BEN LAHATE

GRAHL CONSTRUCTION

706-993-0792

blahatte@grahlconstruction.com

Discipline	Question	Response																				
Arch/Owner	Can you clarify that all costs associated with impact fees, building permit fees, special inspections, materials testing will be paid by the owner.	Owner will carry all of the supplemental costs.																				
Arch/Owner	How many copies are required of the bid? Do you want PDF format also of the bid submission?	Three total, two copies, one original.																				
Arch	Can you verify the Owner furnished or provided items for this project?	Owner will take care of the furnishings and items.																				
Arch/Owner	Is there a target start date for this project that a NTP will be issued?	No specific target date - I would say 30-45 days after the contract is awarded.																				
Civil	On drawing C-002 Demolition Plan, there is reference to structures to be removed. Will all the furniture and equipment be removed from these structures prior to demolition by the owner and are there any salvaged items?	Any items within the buildings to be demo' d that the client will want to salvage will need to be directly coordinated with the owner by the contractor.																				
Civil	On drawing C-002 Demolition Plan, there is a note for existing fire optic and electrical lines to be removed; however, they are required to remain active. To maintain service, is it your intent to have a switch-over to occur once all new lines are installed? Who will be responsible for the fiber and electrical relocation cost?	The existing power/fiber lines are to remain active during construction and a switch-over will occur once the new lines are installed.																				
Arch / Struct	Specification 051200 Structural Steel Section 1.3, A and B requires AISC certified fabricator and installer. There are only a few certified in Georgia. This requirement is a premium that will increase the bid amount. Will the owner consider eliminating this requirement?	PEMB does not have to be AISC certified, but the conventional steel should be a certified fabricator. The rest of the building can be AISC certified.																				
Arch	Specification 087100 Door Hardware – Doors 200, 213C, 223,227A, 227B, 227C & 227D are not listed in the hardware sets. Can you please specify the hardware required for these doors?	<table border="0"> <thead> <tr> <th>Door #</th> <th>Hardware #</th> </tr> </thead> <tbody> <tr> <td>200</td> <td>5</td> </tr> <tr> <td>213C</td> <td>3 Set 3 is for single door, use set 5 for pair</td> </tr> <tr> <td>214C</td> <td>8 Can use, change silencers to gasketing for rated openings</td> </tr> <tr> <td>226B</td> <td>8 Can use, change silencers to gasketing for rated openings</td> </tr> <tr> <td>227A</td> <td>3 Set 3 is for single door, use set 5 for pair</td> </tr> <tr> <td>227B</td> <td>3 Set 3 is for single door, use set 5 for pair</td> </tr> <tr> <td>227C</td> <td>3 Set 3 is for single door, use set 5 for pair</td> </tr> <tr> <td>227D</td> <td>3 Set 3 is for single door, use set 5 for pair</td> </tr> <tr> <td>228</td> <td>11</td> </tr> </tbody> </table> <p>Door #300 is not listed. It is the personal door to the Garbage Enclosure. This is the hardware set the door should have: Set 11</p>	Door #	Hardware #	200	5	213C	3 Set 3 is for single door, use set 5 for pair	214C	8 Can use, change silencers to gasketing for rated openings	226B	8 Can use, change silencers to gasketing for rated openings	227A	3 Set 3 is for single door, use set 5 for pair	227B	3 Set 3 is for single door, use set 5 for pair	227C	3 Set 3 is for single door, use set 5 for pair	227D	3 Set 3 is for single door, use set 5 for pair	228	11
Door #	Hardware #																					
200	5																					
213C	3 Set 3 is for single door, use set 5 for pair																					
214C	8 Can use, change silencers to gasketing for rated openings																					
226B	8 Can use, change silencers to gasketing for rated openings																					
227A	3 Set 3 is for single door, use set 5 for pair																					
227B	3 Set 3 is for single door, use set 5 for pair																					
227C	3 Set 3 is for single door, use set 5 for pair																					
227D	3 Set 3 is for single door, use set 5 for pair																					
228	11																					
Arch	Specification 13 34 19 Metal Building Systems – The basis of design is American Buildings and is a NUCOR Metal Building Systems company. NUCOR is one of the largest manufacturers of metal building systems with eleven (11) locations; and as such, the owner of three (3) other independent brands: American Buildings , CBS Steel Buildings, Kirby Buildings. Since American Buildings is indicated as the basis of design, will NUCOR also be an approved manufacturer?	NUCOR is deemed acceptable manufacturer																				

Elec	Specifications 260001 Electrical indicates all telecommunications and low voltage systems work is required as included in the bid. Since there are not low-voltage or telephone systems drawings or specifications, can you stipulate data cabling/switches/routers, CCTV cabling/equipment, ladder racks, data backboards, equipment racks, voice/data patch panels, cable trays, access controls?	THE LOW VOLTAGE & TELECOMMUNICATION SCOPE SHALL BE TO INSTALL ELECTRICAL BOXES & CONDUITS IN PREPARATION FOR THE VENDOR TO INSTALL THE CABLING.
Elec	Specification 260500 Common Work Results for Electrical – Can you verify that no Arc Flash testing or analysis is required for this project?	ARC FLASH TESTING/ANALYSIS WILL BE REQUIRED FOR THIS PROJECT, SPEC 260553 PANELBOARD IDENTIFICATION REQUIRES ARC FLASH WARNING LABELS PER NEC WHERE NOT ALREADY PROVIDED BY MANUFACTURER
Elec	There does not appear to be a requirement for Emergency Responder Radio Coverage (ERRC) testing or system installation requirements (per IFC 510). Can you verify this is not a requirement for this project?	AN EMERGENCY RADIO COVERAGE TEST WILL BE REQUIRED TO ENSURE A FULL SYSTEM IS NOT REQUIRED. PLEASE INCLUDE A MINIMUM \$10,000 ALLOWANCE FOR ANY WORK ASSOCIATED WITH THIS SCOPE.
Arch	The door schedule & hardware sets do not match. Please provide correct info for the following doors not shown on the door schedule: 213B.1, 214B.1, 226A, 201G, 223A, 201A, 201B, 201C, 201D. The following doors are on the door schedule but not shown on the hardware sets: 213C, 214C, 223, 226B, 227A, 227B, 227C, 227D, 228, 300.	Doors 213B.1, 214B.1 are no longer in our specs or plans. 226A, 201G, 223A, 201A, 201B, 201C, 201D. Are now incorporated in our door schedule. 214C, 223, 226B, 227A, 227B, 227C, 227D, 228, 300 have now been identified with hardware sets.
Arch	Should Doors #217 (Riser room door) have a storeroom lock not a classroom lock?	Change opening 217 to Set 3 utilizing Storeroom function lockset and NRP hinges.
Arch	Please provide correct hardware group for door #218. The set shown is for single door.	Opening 218 in Set 4 is for restroom and hardware is accurate for single door.
Arch	Hollow metal specs call for LEED credits, but wood door specs do not. If wood doors are to meet LEED credits, please provide credit criteria or confirm that neither are to meet LEED credits.	Leed is not being pursued.
Interior	Toilet accessory schedule list T20 Wall Mounted Automatic Soap Dispenser, but floor plans appear to show deck mounted soap dispensers, if you could please confirm which is correct.	TLT 209 is only restroom to receive a wall mounted soap dispenser, all others to be deck mounted as shown in drawings. Refer to sheet A1.11 for clarification
Interior	Specs list only 1 type soap dispenser, which is now discontinued, identified as TA16 which is not in the plan's accessory schedule. Could you please provide another type and model?	TA16 has been updated in specs and drawings and another type and model has been incorporated into the specs and drawings
Interior	Specs list Scranton Solid Plastic Toilet Partitions, but the Misc Legend on Sheet A8.01 of plans describe them as ASI Global Stainless-Steel Partitions, which one is correct?	This information is listed in spec section 102813 2.1 where American Specialist, Inc. is listed as an acceptable manufacturer
Interior	The sections for Rooms 224 and 225 have conflicting information regarding their flooring/base. On the Finish Legend it calls out an Epoxy flooring and Base with a section explaining the base is to match the floor but not listing the epoxy flooring, Page A8.03 calls these areas out as standard Sealed Concrete/Rexthane. The specifications for these systems are not found on the Specification document provided. Along with that, the plans note these systems are to be done by their respective vendors. That said, are these vendors owner approved/selected vendors? If so, can bids be provided as alternates?	Rooms 224 and 225 are to be SC-1, this has been updated in the finish schedule.

Elec	I also noticed there is conflicting information. The Security Legend on page GE0.01, for the access control panel and intrusion control/alarm panel state that these devices are to be provided and installed by the vendor. However, on page E3.02 Keynotes 2 and 3 state that these same devices are to be provided by the vendor and installed by the electrical contractor. Although, these are not marked with the same icon with that in the legend, these are essentially the same devices. Could you provide clarification whether the vendor is to provide and install?	THE VENDOR SHALL PROVIDE THE DEVICES & THE ELECTRICAL CONTRACTOR SHALL INSTALL THEM.
Interior	After reviewing the drawings and specifications, I noticed some conflicting information. The specifications mention polished concrete, while the drawings indicate sealed concrete. So, which one should we include in our pricing.	Use sealed concrete
Interior	Toilet accessory schedule list T20 Wall Mounted Automatic Soap Dispenser, but floor plans appear to show deck mounted soap dispensers, if you could please confirm which is correct.	Refer to sheet A1.11 for clarification.
Interior	Specs list only 1 type soap dispenser, which is now discontinued, identified as TA16 which is not in the plan's accessory schedule. We are considering Bobrick B-2112 for TA15 manual wall mounted, and B-826 for the TA20 deck mounted, would that be approved substitutions or could you please provide another type and model	Another type and model has been included in the specs.
Interior	Specs list Scranton Solid Plastic Toilet Partitions, but the Misc Legend on Sheet A8.01 of plans describe them as ASI Global Stainless-Steel Partitions, which one is correct? Or should we quote both types?	ASI Global stainless steel partitions are correct.
Low Voltage / ELEC	Are the following systems in the GCs scope? CCTV, Access Control, Intrusion, Voice/Data If so, what manufacturer has the county standardized on for the Access and CCTV? (ex. Avigilon, Exacq, Honeywell) For the CCTV, I need to know who the NVR/DVR manufacturer is. Checking the camera for manufacture will only tell me half the story.	THE GC SCOPE FOR THE CCTV, ACCESS CONTROL, INTRUSION, VOICE/DATA SHALL BE AS FOLLOWED: THE GC SHALL PROVIDE ELECTRICAL INFRASTRUCTURE (BOXES & CONDUIT) TO ABOVE CEILING AREAS. CONTRACTOR SHALL COORDINATE WITH OWNER PROVIDER VENDORS FOR ANY FURTHER SPECIFICATIONS FOR EXACT DEVICE USED FOR THE BUILDING.
NEW COMMENTS 1/8/2025		
ARCH/STRUC	1.Specification 05 12 00 Structural Steel, 1.3 requires AISC fabricator and installer. There are only a few AISC certified companies in Georgia that will increase the cost of the steel bid. Since the main structure is pre-engineered metal building, can this requirement be waived?	REFER TO RESPONSE #9
ARCH	2.Specification 05 51 00 Metal Stairs indicates several different tread requirements: 2.4 Precast Concrete Treads, 2.5 Metal Pan Stairs / Metal Floor Plate Stairs / Metal Bar Grating Stairs. Drawing A5.32 and detail 10/S3.11 do not indicate which type stair is required. Can you clarify which of these are required?	2.5 Metal Pan Stairs, refer to D4 Stair Railing detail on A5.41

	<p>3.Specification 05 52 13 Pipe and Tube Railings indicates several different railing material requirements and locations per 1.2, for aluminum (at building exterior, site stairs, exterior gate at stair), and stainless-steel handrails for interior stairs.</p> <p>a.Drawings C-100, C-200 and C-300 indicates location and note "Required Decorative Handrail (see architectural plans)". There is no decorative handrail shown on the architectural drawings (A5.41). Can you clarify no decorative handrail is required and what detail for guardrail detail is required along the sidewalk?</p> <p>b.Can you clarify the location of the exterior gate at stair listed in the specs?</p> <p>c.Drawing A4.51 indicates several rail elevations and details. The Running Track details are evident on the plan; however, details A9, D4 and H9 are not clear where they occur. Can you clarify the locations for each?</p>	<p>A. No decorative handrail is required. Painted steel pipe guardrail/handrail B. Exterior gate is for the dumpster enclosure. C. A9 is for upper level running track, D4 is for interior stair's. H9 is for all other rails, including exterior ramps.</p>
INTerior	<p>5.Specification 06 61 16 Solid Surfacing Fabrications requires AWI Quality Certification Program, since this requirement is typically for museum grade millwork, will this be applicable to the solid surface fabrications for this project?</p>	<p>AWI certified but does not need to be museum-grade millwork.</p>
INTerior	<p>6.Specification 09 21 00 Gypsum Board Assemblies does not appear to be included in the bid documents, will there be a specification issued to include board, accessories, light gauge metal framing and level of finishes required?</p>	<p>Will include in addendum</p>
	<p>7.Specification 10 21 13.19 Plastic Toilet Compartments lists Scranton Solid Plastic Toilet Compartments; however, drawing A8.01 Finish Legend-Misc indicates TP-1 as ASI Global Stainless-Steel Partitions. Can you clarify the requirement for toilet compartments?</p>	<p>Solid Plastic Toilet Comp. required by owner.</p>
ARCH	<p>11.Drawing A1.22 indicates dumpster enclosure; however, there are not any details for the gate material, framing type/size, hinges, locking mechanism or post mounting. Can you provide details to price the gate?</p>	<p>Basis of design is Corvit dumpster gates with horizontal planks (slate gray wood and slate gray frame) each gate will be 8.5' wide x 8' tall for total of 17'. Ring and latch locking mechanism with two drop pins.</p>
<p>NEW COMMENTS 1/9/2025</p>		