

Date Due: March 12, 2021
DUE NO LATER THAN 11:00 A.M.
LOCAL TIME IN HOUSTON, TEXAS
*Proposals received later than the above
date and time will not be considered.*

**YES Prep Public
Schools
REQUEST FOR PROPOSAL
Cover Sheet**

REQUEST FOR PROPOSAL: FY21_7 Fifth Ward Safety & Security Vestibule

NOTE TO PROPOSERS!!! Carefully read all instructions, requirements, and specifications. Fill out all forms properly and completely. Submit your proposal with all appropriate supplements and/or samples and return as instructed in Special Requirements/Instructions.

RETURN PROPOSAL TO:

Cheris Kotalik

Construction Manager
5515 S Loop E, Suite B
Houston, Texas 77033

For additional information, contact **Cheris Kotalik, cheris.kotalik@yesprep.org or 346-235-5776.**

You must sign below in INK; failure to sign WILL disqualify the proposal. All prices must be typewritten or printed in ink.

Vendor Name: _____

Vendor Address: _____

City, State, Zip Code: _____

Taxpayer Identification Number (T.I.N.): _____

Telephone No.: _____ Fax No.: _____

Email: _____

Print Name: _____ Signature: _____

[Your signature attests to your proposal to provide the goods and/or services in this proposal according to the published provisions of this Request for Proposal unless modifications or alterations are clearly noted in your proposal submission.]

TABLE OF CONTENTS – REQUEST FOR PROPOSAL PACKAGE

The items below represent components which comprise this Request for Proposal (hereinafter “RFP”) package. Suppliers are asked to review the package to be sure that all applicable parts are included. If any portion of the package is missing, please notify Cheris Kotalik, Construction Manager immediately at cheris.kotalik@yesprep.org or 346-235-5776.

It is the Vendor’s responsibility to be thoroughly familiar with all Requirements and Specifications. Be sure you understand the following before you return your proposal packet.

1. Cover Sheet

Your company name, address, and your signature (**IN INK**) should appear on this page.

2. Table of Contents

This page is the Table of Contents.

3. General Requirements

You should be familiar with all of the General Requirements.

4. Special Requirements/Instructions

This section provides information you must know in order to make a complete and proper proposal.

5. Specifications

This section contains the detailed description of the products/services sought.

6. Attachments

- A. Submittals 1 - 4
- B. Questionnaire
- C. Workers’ Compensation Certification
- D. Insurance Coverage Requirements
- E. Proposed Exceptions, Alterations, Additions, or Modifications to RFP (if any)
- F. Scoring Rubric

INTRODUCTION

YES Prep Public Schools is a free, open-enrollment public school system that serves 15,000 students across nineteen (21) schools in the Houston area. YES Prep has been ranked as among the top 100 public high schools in the nation by Newsweek and U.S. News & World Report. Every year, 100 percent of YES Prep's graduating seniors have been accepted into four-year colleges, including Harvard, Yale, Columbia, Rice, and Stanford. YES Prep combines a highly successful 6th-12th grade model along with high standards for student achievement.

GENERAL REQUIREMENTS

Proposals will be accepted by Yes Prep Public Schools no later than 11:00 a.m. (local time), **March 12, 2021**. Every proposal must be enclosed in an envelope clearly marked "FY21_7 FW Safety & Security Vestibule" and shall include one copy.

All questions, requests, responses, and proposals shall be submitted to:

Cheris Kotalik, Construction Manager

YES Prep Public Schools

5515 S Loop E, Suite B

Houston, TX 77033

Cheris.kotalik@yesprep.org

Questions and responses regarding this RFP will be posted to the YES Prep Public Schools web site during the RFP phase so all interested parties will have access to the same information. Web site is located at: <http://www.yesprep.org/notices>

The appropriate committee shall review all timely responses, and if necessary, the full Board of Trustees prior to acceptance/bid award. Responses may be hand delivered. Any response or proposal received after the above deadline shall be considered late, and will not be opened or considered.

Time Frame

The timeframe for all responses must be complete and in possession of YES Prep Public Schools by 11:00 a.m. (local time) on **March 12, 2021**. Each submission/proposal must be complete. Any incomplete responses may be rejected. All respondents will comply with this RFP as a basis for the award of the proposal.

All questions are due by 5:00 p.m. (local time) on March 8, 2021.

Approval

The actual acceptance of any proposal may be delayed. Therefore, all responses must remain valid for a period of no less than one hundred and twenty (120) days. It is intended that proposals will be recommended to the Board of Trustees at an upcoming board meeting. The Board of Trustees reserves the right to reject any and all proposals.

ACCESS TO RECORDS

Proposer (hereinafter "Vendor") may be required to allow duly authorized representatives of YES Prep Public Schools (hereinafter "YES"), and local, state, and federal governments, access to contracts, books, documents, and records necessary to verify the nature, extent, and cost of services provided by the Vendor.

AWARD

YES reserves the right to reject any and all proposals, and reserves the sole right at its discretion to accept any proposal(s) it considers most favorable to the interest of YES and waive any and all minor irregularities in any proposal(s). YES further reserves the right to reject any proposal(s) and seek new proposals through the issuance of a new or amended Request for Proposal (hereinafter "RFP") if such action is deemed in the best interest of YES.

OFFER COMPLETION

Fill out and return to Cheris Kotalik, Construction Manager, one complete proposal form, and two copies, as instructed under the Special Requirements section of this document. An authorized Vendor representative should sign the Cover Sheet. Completion of these forms is intended to verify that the Vendor has submitted the proposal, is familiar with its contents, and has submitted the material in accordance with all requirements.

The submission of a response shall be prima facie evidence that the Vendor has full knowledge of the scope, nature, quantity, and quality of work to be performed, the detailed requirements of the project, and the conditions under which the work is to be performed. All terms, conditions, specifications, stipulations, and Vendor requirements stated in the RFP, any attached Appendices to the RFP, and any and all Addenda issued shall become part of the contract entered into between YES and the Vendor.

OFFER RETURNS

Vendors must return all completed proposals to the office of Cheris Kotalik as indicated on the Cover Sheet of this package. Late proposals will not be accepted. It is the responsibility of the responding Vendor to assure that the response is received prior to the date and time indicated on the Cover Sheet of this package.

DIGITAL FORMAT

If Vendor obtained the proposal specifications in digital format in order to prepare a response, ***the proposal must be submitted in hard copy*** according to the instructions contained in this package. If, in its response, Vendor makes any changes whatsoever to the YES published RFP specifications, the RFP specifications ***as published*** by YES shall control. Furthermore, if an alteration of any kind to the RFP specifications as published is discovered after the contract is executed, the contract is subject to immediate cancellation at the sole option of YES.

DISQUALIFICATION OF VENDOR

Upon signing this RFP, Vendor certifies that the proposal has not violated the antitrust laws of this state codified in §15.01, *et seq.*, Business & Commerce Code, or the federal antitrust laws, and has not communicated directly or indirectly the proposal made to any competitor or any other person engaged in such line of business. Any or all proposals may be rejected if YES believes that collusion exists among the Vendors. Proposals in which the prices are obviously unbalanced may be rejected.

EVALUATION

In evaluating the proposals submitted, YES will apply the "Best Value" process in selecting the Vendor to be awarded a contract for this project. **Purchase price is not the only criteria that will be used in the evaluation process.** The selection process will include, but not be limited to, the following considerations:

1. The quality and range of goods and/or services the Vendor proposes to provide;
2. The extent to which the goods and/or services meet YES needs;
3. The Vendor's overall experience, reputation, expertise, stability, and financial responsibility;
4. The Vendor's past relationship, if any, with YES;
5. The experience and qualifications of the Vendor staff (i.e. drivers, supervisors, dispatchers, mechanics, etc.) that will be assigned to service the YES account;
6. The ability to provide service in a safe, reliable, expedient, and efficient manner;
7. Facilities and business processes and practices (computerized information systems, access to industry facilities, quality and range of management reports, etc.) that will be used in servicing the YES account;
8. The Vendor's financial terms offered to YES;
9. The total long-term cost to YES to acquire the Vendor's goods or services; and/or
10. Any other relevant factor(s) specifically listed in the RFP.

YES reserves the right to contact references from the Vendor's client list, or any other persons considered relevant by YES. YES reserves the right to conduct personal interviews of any or all potential Vendors prior to selection.

YES will not be liable for any costs incurred by the Vendor in connection with such interviews or with the submission of any response.

DOCUMENT INTERPRETATION

In the event of any conflict of interpretation of any part of this overall document, the interpretation of YES shall govern.

GOVERNING LAW

Any agreements resulting from this RFP shall be governed by, construed, and enforced in accordance with the laws of the State of Texas applicable to contracts made and wholly performed within such state (without regard to the conflicts or choice of law principles thereof). The parties irrevocably consent to the jurisdiction of the State of Texas, and agree that any court of competent jurisdiction sitting in the County of Harris, State of Texas, shall be an appropriate and convenient place of venue, and shall be the sole and exclusive place of venue, to resolve any dispute with respect to any such agreements.

HOLD HARMLESS AGREEMENT

The successful Vendor(s) shall indemnify, hold harmless, and defend YES, its directors, officers, and employees (paid or volunteer) from and against any and all claims, demands, and causes of action of whatever kind or nature arising out of error, omission, misrepresentation, negligent act, conduct, or misconduct of the Vendor and its subcontractors, agents, and employees (paid or volunteer) in the provision of goods or the performance of services arising out of the preparation of this proposal and execution and performance of any contracts resulting therefrom. Such indemnification shall also include reasonable attorneys' fees, court costs, and expenses.

INSPECTIONS

YES reserves the right to inspect any item(s) or service location for compliance with specifications, requirements, and needs of YES. If a Vendor cannot furnish a sample of a proposed item, where applicable, for review, or fails to satisfactorily show an ability to perform, YES can reject the Vendor as inadequate.

TESTING

YES reserves the right to test equipment, supplies, materials, and goods proposed for quality, compliance with specifications, and ability to meet the needs of YES. Demonstration units must be available for review. Should the goods or services fail to meet requirements and/or be unavailable for evaluation, the proposal is subject to rejection.

INVOICES AND PAYMENTS

YES standard payment terms are Net 30 days after receipt of invoice.

Invoices should be provided to YES in a timely manner. Vendors are requested to invoice YES within 30 days of providing goods and/or services to YES. Vendors who continuously invoice YES in a manner that is outside of generally accepted business practices may affect their continuing relationship with YES.

In the event a Vendor presents YES with invoices, statements, reports, etc. that are incomplete or inaccurate, YES may be required to perform substantial research which could result in delay of payment. YES will not be responsible for any interest charges and/or late fees as a result of delayed payment due to time delays caused by inadequate, incomplete, or inaccurate information provided in invoices by Vendor.

PRICING

Prices for all goods and/or services shall be negotiated to a firm amount for the duration of this contract or as agreed to in terms of time frame and/or method of determining price escalations, if any, by Vendor. All prices and methods of determining prices must be written in ink or typewritten. Where unit pricing and extended pricing differ, unit pricing prevails.

SCANNED OR RE-TYPED RESPONSE

If in its response, Vendor either electronically scans, re-types, or in some way reproduces the YES-published RFP package, then in the event of any conflict between the terms and provisions of the published RFP package, or any portion thereof, and the terms and provisions of the response made by the Vendor, the RFP package **as published** by YES shall control. Furthermore, if an alteration of any kind to the YES-published RFP package is only discovered after the contract is executed, the contract is subject to immediate cancellation at the sole option of YES.

SEVERABILITY

If any section, subsection, paragraph, sentence, clause, phrase, or word of these requirements or the specifications shall be held invalid, such holding shall not affect the remaining portions of these requirements and the specifications, and it is hereby declared that such remaining portions would have been included in these requirements and the specifications as though the invalid portion had been omitted.

SUPPLEMENTAL MATERIALS

Vendors are responsible for including all pertinent product data in the returned offer package. Literature, brochures, data sheets, specification information, completed forms requested as part of the offer package, and any other facts which may affect the evaluation and subsequent contract award should be included. Materials such as legal documents and contractual agreements, which the Vendor wishes to include as a condition of the proposal, must also be in the returned proposal package. Failure to include all necessary and proper supplemental materials may be cause to reject the entire proposal.

TAXES

YES is exempt from federal, state, and local taxes. In the event that taxes are imposed on the goods or services purchased, YES will not be responsible for payment of the taxes. The Vendor shall absorb the taxes entirely. Texas Limited Sales Tax Exemption Certificates will be furnished to Vendors upon written request to YES.

TERM CONTRACTS

The successful Vendor, as determined by YES, shall be required to execute a contract to furnish all goods and/or services and other deliverables required for successful completion of the proposed project. No Vendor shall obtain any interest or right in any award until YES has executed a contract, and any such interest and rights shall be subject to the terms and conditions as contained in such contract.

The successful Vendor may not assign, sell, or otherwise transfer its interest in the contract award, or any part thereof, without prior written consent from the YES.

QUANTITY

There is no guaranteed amount of business, expressed or implied, to be purchased or contracted for by YES. However, the Vendor(s) awarded the contract shall furnish all required goods and/or services to YES at the stated price, when and if required.

CONTRACT TYPE

The preferred contract type to be awarded is a fixed fee contract. However, if a Vendor has reason to believe a better (more cost effective) method is practical, then the Vendor is encouraged to offer that better pricing option as an alternative in its submitted proposal. YES will consider that type of contract as it compares with other recommended contract options.

TERMINATION

YES reserves the right to terminate the contract without cause with 60 days prior written notice for convenience and with 30 days prior written notice for cause if Vendor breaches any of the terms therein, including warranties of Vendor or if the Vendor becomes insolvent or commits acts of bankruptcy. Such right of termination is in addition to and not in lieu of any other

remedies which YES may have in law or equity. Cause may be construed as, but not limited to, failure to deliver the proper goods and/or services within the proper amount of time, and/or to properly perform any and all services required to YES's satisfaction, and/or to meet all other obligations and requirements.

If the Vendor breaches any provision of the proposal stipulations, becomes insolvent, enters voluntary or involuntary bankruptcy, or receivership proceedings, or makes an assignment for the benefit of creditors, YES will have the right (without limiting any other rights or remedies that it may have in the contract or by law) to terminate any contract with 30 days prior written notice to the Vendor.

YES will then be relieved of all obligations, except to pay the reasonable value of the Vendor's prior performance (at a cost not exceeding the contract rate). The Vendor will be liable to YES for all costs exceeding the contract price that YES incurs in completing or procuring the service as described in the proposal. YES's right to require strict performance of any obligation in this contract will not be affected by any previous waiver, forbearance, or course of dealing.

FUNDING OUT OPTION

Any contract resulting from this RFP is contingent upon the continued availability of budget appropriations and is subject to cancellation, without penalty to YES, either in whole or in part, if funds are not appropriated by the YES Board of Directors or otherwise not made available to YES.

WARRANTIES

Vendors shall furnish all data pertinent to warranties or guarantees which may apply to items in the proposal. Vendors may not limit or exclude any implied warranties.

ASSOCIATION

Vendors may not use the YES official logo(s), or any phrase associated with YES, without written permission from YES.

DISCLOSURE

All information and documentation related to this RFP submitted by Vendors may be subject to public disclosure under the Texas Public Information Act (Texas Government Code Section 552.001, et seq.).

EXCEPTIONS, ALTERATIONS, ADDITIONS, and MODIFICATIONS

If any exceptions, alterations, additions, or modifications are submitted by Vendor to any portion of this RFP, the Vendor must clearly indicate the exceptions, alterations, additions, and modifications and include a full explanation as a separate attachment to the proposal. The failure to identify exceptions, alterations, additions, or modifications will constitute acceptance by the Vendor of the RFP as proposed by YES. YES reserves the right to reject a proposal containing exceptions, alterations, additions, or modifications.

PROPOSAL PREPARATION COSTS

All costs related to the preparation and submission of this proposal shall be paid by the Vendor. Issuance of this RFP does not commit YES, in any way, to pay any costs in the preparation and submission of the proposal, nor does the issuance of the RFP obligate YES to award a contract or purchase any goods and services stated in the RFP.

RETENTION OF PROPOSAL DOCUMENTATION

All proposal materials and supporting documentation that is submitted in response to this proposal becomes the permanent property of YES.

MODIFICATION/WITHDRAWAL OF PROPOSAL

Proposals may be modified in writing at any time prior to the due date. Proposals may be withdrawn in writing, by facsimile written transmission or in person, before the response date.

PAYMENT TERMS

Invoices that are submitted by the awarded contractor are required to provide accurate and current addresses including any discounts for early payment. Payment of undisputed invoices will be paid monthly provided that the invoices are received by dates provided to the winning bid. Disputed portions of invoices will be held until the dispute is resolved.

PROPOSAL REQUIREMENTS

- Vendor is required to provide evidence of a valid State of Texas Business License
- Vendor is required to provide an insurance certificate with YES Prep named as an additional insured.

The entity legally responsible for fulfilling this agreement shall be identified in the proposal response.

Right to Seek a New Proposal

YES Prep Public Schools reserves the right to receive, accept, or reject any and all proposals for any or all reasons.

Proposals will be awarded to the best overall respondent as determined to be in the best interests of Yes Prep. In comparing the responses to this RFP and making awards, Yes Prep may consider such factors as quality and thoroughness of a proposal, the record of experience, the references of the respondents, and the integrity, performance and assurances in the proposal in addition to that of the proposal price.

It is the responsibility of the vendor to ensure that the equipment proposed is fully functional with existing two-way radio equipment: handheld radios, base stations and school bus radios.

Applicable Law

The successful Contractor(s) agrees that they shall comply with all local, state and federal laws, statutes, rules, and regulations including, but not limited to, the Rehabilitation Act of 1973 and the Americans with Disabilities Act. In the event that any claims should arise with regards to this contract, for a violation of any such local, state, or federal law, statutes, rules, or regulations, the provider will indemnify and hold Huntington County Community School Corporation harmless for any damages, including court costs or attorney fees which might be incurred.

Dispute resolution

It is expected that any conflicts or disagreements can be settled through face-to-face meetings. Unresolved disputes will require mediation before filing litigation. Both parties will split the cost of mediation.

SPECIAL REQUIREMENTS/INSTRUCTIONS

EVALUATION AND AWARD

This RFP in no manner obligates YES to the eventual rental, lease, or purchase of any equipment or service described, implied, or which may be proposed, until confirmed by a written contract. Progress toward this end is solely at the discretion of YES and may be terminated at any time prior to the signing of the contract.

YES may initiate discussions with Vendor personnel authorized to contractually obligate the Vendor. Discussions will develop into negotiating sessions with the successful Vendor(s). If YES is unable to agree to contract terms, YES reserves the right to terminate contract negotiations with a Vendor and initiate negotiations with another Vendor. YES reserves the right to select services and products from any number of Vendors if, in its sole discretion, it is in the best interest of YES to do so.

Evaluation will consider the Vendor(s) best meeting the needs and requirements of YES and such evaluation and determination of best value shall be solely at the discretion of YES.

Purchase price is not the only criteria that will be used in the evaluation process.

Submission of qualifications implies the Vendor's acceptance of the evaluation criteria and Vendor's recognition that subjective judgments can and will be made by those individuals evaluating qualifications.

References, site visits, and product inspections may be used to make judgments directly affecting the award of this contract.

NON-PERFORMANCE BY VENDOR

Performance, before and during the contract term, will be a major consideration of current contract award, renewals, and future award considerations. Failure to perform, in any sense relative to this contract, may result in the probation and/or termination of this agreement by YES on the basis of nonperformance. Non-performance shall be determined as follows:

1. Failure to meet and maintain all qualifications required in this RFQ/RFP;
2. Failure to meet required personnel standards and operating performance standards;
3. Failure to maintain appropriate and/or necessary personnel licenses and certifications;
4. Failure to meet all vehicle inspections and certifications which are needed to comply with federal, state, and/or local requirements;
5. Failure to keep and maintain all required insurance coverage; and/or
6. Failure to cure deficiencies within a reasonable amount of time as stated herein.

INSURANCE

All Vendors must provide evidence of insurance or insurability and a Workers' Compensation

Certificate (see Attachments C and D).

GOVERNMENT VIOLATIONS

Vendor shall notify YES of all health and safety violations, OSHA violations, wage and hour violations, or labor violations assessed by any city, state, or federal government department or agency.

NON-COMPLIANCE NOTIFICATION

In the event a Vendor is determined by YES to have failed to perform services in accordance with the requirements listed herein, YES will forward a written notification specifying the violation or the area of non-compliance to the Vendor. The Vendor in non-compliance shall immediately remedy all violations as determined by YES. Any violations not so remedied shall be grounds for termination of the contract, in whole or in part.

OWNERSHIP

YES shall retain ownership rights to all materials or any other product produced in conjunction with the work described herein.

SPECIAL CONDITIONS AND PROJECT INFORMATION

YES Prep Public Schools is a free, open-enrollment public school system that currently serves 15,000 students across nineteen (19) schools in the Houston area. In August 2020, YES Prep will open 2 new elementary schools in the Houston area. YES Prep has been ranked as among the top 100 public high schools in the nation by Newsweek and U.S. News & World Report. Every year, 100 percent of YES Prep's graduating seniors have been accepted into four-year colleges, including Harvard, Yale, Columbia, Rice, and Stanford. YES Prep combines a highly successful 6th-12th grade model along with high standards for student achievement.

A schedule duration MUST be included with RFP response.

- Project will be permitted through City of Houston. Contractor will be responsible for scheduling all inspections and finals.
- Owner will contract direct for fire alarm and data. Contractor will be required to work with and coordinate with Owner contractors.
- Work to start on Monday, June 14, 2021 and Certificate of Occupancy no later than, July 28, 2021.
- Owner will provide area in enclosed parking lot for small laydown and contractor furnished dumpster. Dumpster must have plywood underneath to not damage asphalt.
- Contractor to maintain front entry access for school personnel and students throughout the summer.
- All shutdowns must be coordinated 48hrs in advance with Owner. Building wide shutdowns will take place after-hours.
- Contractor to provide temporary toilet for all workers. Use of Owner facilities is prohibited.
- Contractor must provide daily onsite supervision anytime workers are present.
- Contractor will be responsible for submittals and RFI's with the A/E team before and during construction.
- Contractor to provide one (1) warranty on all work.

REQUIRED SUBMITTALS (Attachment A)

Submittal 1

Experience in Electrical

Vendor shall provide a statement of its qualifications to provide the specific materials and services requested herein.

Submittal 2

Staffing Plan

Vendor shall submit a staffing plan that provides the qualifications of your employees.

Submittal 3

References

Vendor shall supply a list of three (3) references for which Vendor has experience in the scope of work that the proposal is submitted for.

Submittal 4

Customer Feedback

Vendor shall provide a description of its formal customer feedback system, provide sample tools used to gather data, and describe how results were shared with customers and used to improve service.

All submittals must be included in the RFP package returned on **March 12, 2021 by 11:00 AM. It is recommended that each submittal be typed on a separate sheet of paper with the heading “Response to Submittal #___ for YES RFP” at the top and the name of the Vendor underneath.**

QUESTIONNAIRE (Attachment B)

All Vendor must provide answers to the following questions, typed on 8 ½ x 11 inch paper, in the order below. Attachments to the questionnaire answers should reference the question number.

1. Provide the full name and address of your organization.
2. Provide contact person(s) for information concerning this offer: name, title, phone, fax, email address.
3. What form of business is your organization (e.g. proprietorship, partnership, corporation) and is your organization local only, statewide, or nationwide?
4. List all the names under which this Vendor has operated in the last ten (10) years in the State of Texas.
5. Provide a copy of your insurance coverage.
6. Multi-part question:
 - a. Do you currently have any investigations pending by or on behalf of a government entity or other licensing entity?
 - b. Have you had investigations by or on behalf of a government entity or other licensing entity in the past?
 1. If the answer to either question is yes, please provide copies of relevant paperwork.
7. Do you have any relevant experience or projects in the past with education institutions? If so, please provide a high-level overview of these projects.

WORKERS' COMPENSATION CERTIFICATE (Attachment C)

YES requires Vendor to provide workers' compensation as per state law requirements. The Vendor shall sign and submit the following certificate with the written proposal:

- Minimum Workers' Compensation and Employer's Liability Limits
 - Each Accident \$1,000,000
 - Disease – Each Employee \$1,000,000
 - Disease – Policy Limit \$1,000,000

Vendor Name

Signature of Authorized Agent

Date Signed

Note: Vendor may attach current certificate of coverage with a signed statement that if awarded the contract, they will obtain said aforementioned coverage if the current coverage does not meet the stated minimum requirements.

INSURANCE COVERAGE REQUIREMENTS (Attachment D)

General and Excess Liability Minimum Coverages

- General Liability: \$2,000,000
- Umbrella Liability: \$1,000,000

Vendor Name

Signature of Authorized Agent

Date Signed

YES will be named as Additional Insured on the Certificate of Insurance if the Vendor is awarded a contract.

Proposed Exceptions, Alterations, Additions, or Modifications to RFP (Attachment E)

Vendor should submit as Attachment F, any and all proposed exceptions, alterations, additions, or modifications to the YES RFP for Fifth Ward Safety & Security Vestibule.

SCORING RUBRIC (ATTACHMENT F)

YES will utilize the following RFP Evaluation Rubric for evaluation of all YES Prep FW Safety & Security Vestibule.

1. Charges/Cost to YES PREP: 40 Points.

- a. Favorable = 40 Points. Unfavorable = 0 points.
- b. Evaluate the Overall Value of proposed materials and services to be provided.

2. Technical and Education Experience: 20 Points.

- a. Favorable = 20 Points. Unfavorable = 0 points.
- b. Proposal demonstrates the Vendor's ability to deliver quality services to schools.
- c. Includes references, Vendor staff, and/or Vendor's or certifications, qualifications, experience, expertise, and resumes.

3. Proposed Operational Delivery: 10 Points.

- a. Favorable = 10 Points. Unfavorable = 0 points.
- b. Proposal defines services and scope in enough detail that YES can confidently determine that the proposed services will be met.

4. Project Understanding and Methodology: 30 Points.

- a. Favorable = 30 Points. Unfavorable = 0 points.
- b. Proposal addresses the project in terms of the scope of work and substantive issues essential to proper service and care of YES facilities. Proposal includes a detailed description of services to be provided and any constraints as to procedure, time, personnel, or equipment that needs to be communicated to YES for use during contract negotiations.

**END OF YES RFP PACKAGE FOR
Fifth Ward Safety & Security Vestibule**

1305 BENSON STREET - HOUSTON, TX 77020



ELEMENT ARCHITECTS

[illegible]

YES PREP SCHOOL

ADMINISTRATION ADDITION

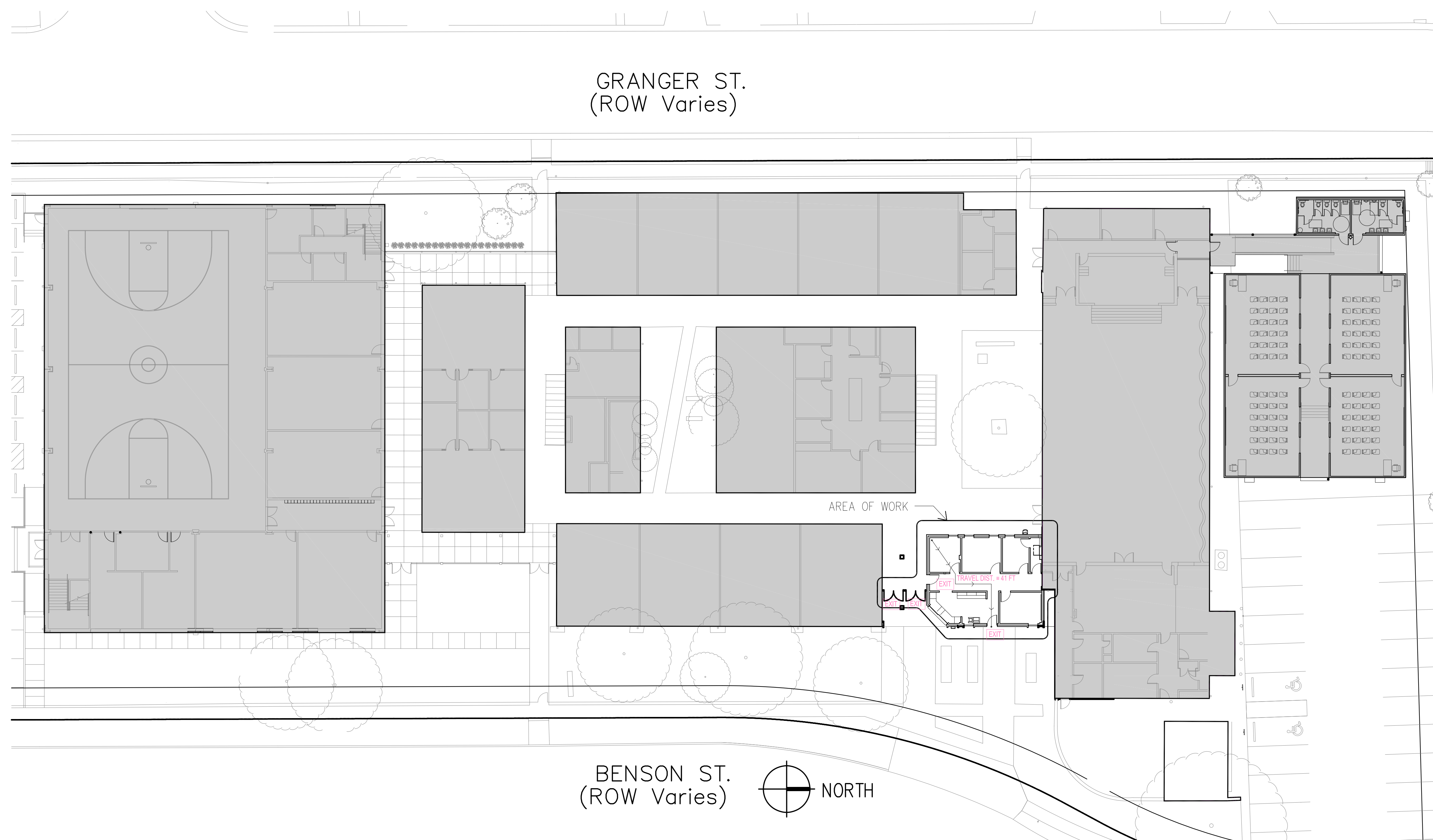
1305 BENSON ST.
HOUSTON, TEXAS 77020

COVER SHEET

Project Number	21007
Date	02/15/21
Drawn By	
Checked By	
<h1>CS100</h1>	
Scale	

EGRESS PLAN

INDEX OF DRAWINGS



ARCHITECTURAL

STRUCTURAL

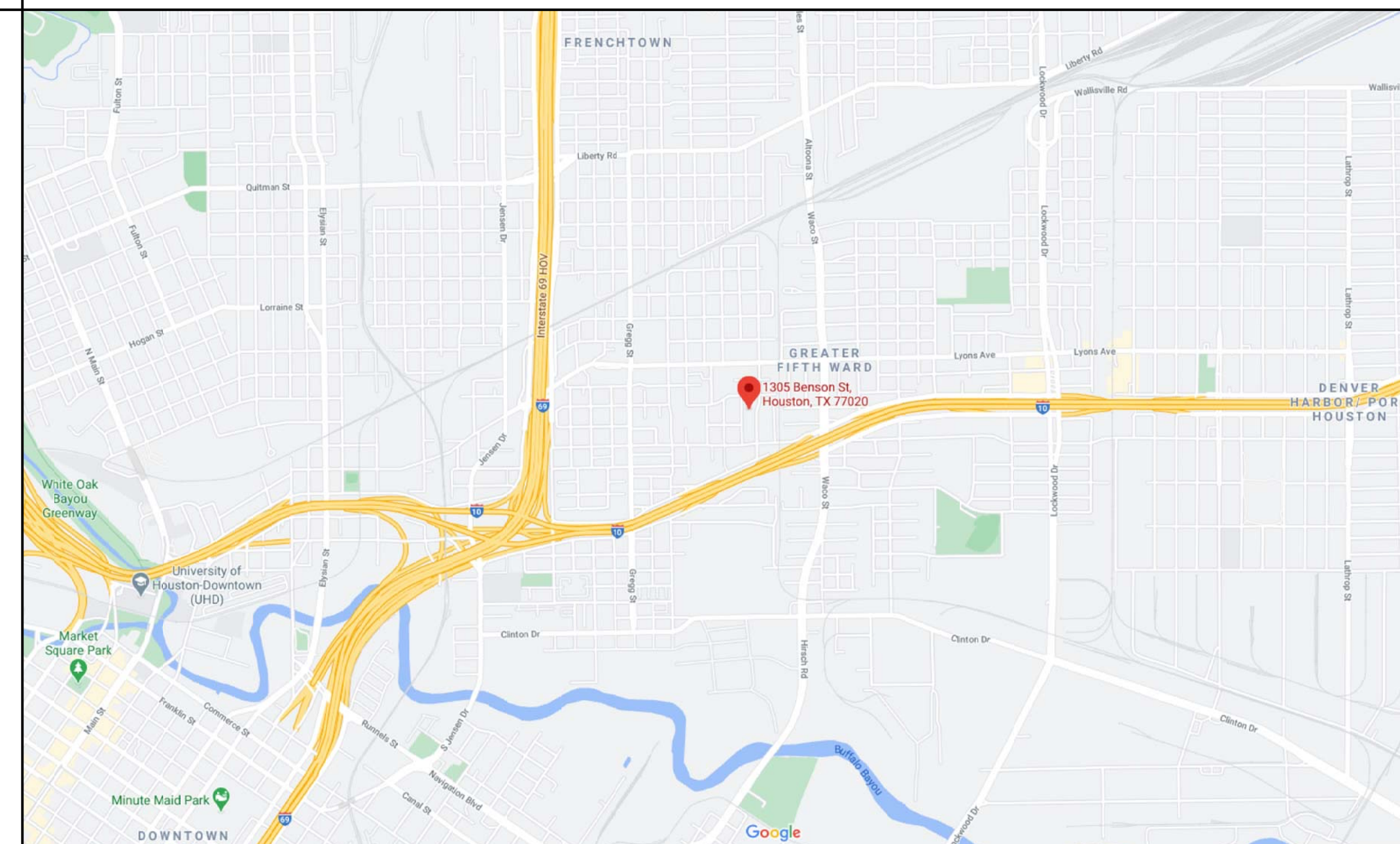
MECHANICAL

PLUMBING

ELECTRICAL

DRAWING SUBMITTAL INDEX

AREA MAP



PROJECT DESCRIPTION AND CODE INFORMATION

SUMMARY OF IMPROVEMENTS:
ENCLOSING A PORTION OF AN EXISTING COVERED BREEZEWAY AREA ON THE FIRST FLOOR OF AN EXISTING SCHOOL BUILDING. THE NEW AREA IS ADDED TO PROVIDE BETTER SECURITY AT THE ENTRY POINT. IT WILL BE USED AS ADMINISTRATIVE OFFICES

1. ADDRESS: 1005 BENSON ST., HOUSTON, TX 77020

2. COUNTY: HARRIS

3. CODES:

- 2012 International Building Code with City of Houston Amendments
- 2012 International Fire Code
- 2015 International Energy Conservation Code
- 2012 Uniform Plumbing Code
- 2012 Uniform Mechanical Code
- 2017 National Electrical Code
- 2012 Texas Accessibility Standards

4. OCCUPANCY TYPE: E

5. PROJECT AREA IN SCOPE OF WORK:
SEE SHEET AS101

6. CONSTRUCTION TYPE:

CONSTRUCTION TYPE: IB - Non Sprinklered

7. OCCUPANCY CALCULATION:
SEE SHEET AS101

8. REQUIRED # EXITS: 1
PROVIDED # EXITS: 1

9. EXIT TRAVEL DISTANCE:
250 FT. MAXIMUM ALLOWED, ACTUAL IS LESS THAN 250 FT

OWNER

YES PREP PUBLIC SCHOOLS
5515 SOUTH LOOP EAST, SUITE B
HOUSTON, TX 77033
(713)967-9000

ARCHITECT

ELEMENT ARCHITECTS
1250 WOOD BRANCH PARK DRIVE, SUITE 480
HOUSTON, TX 77079
(713)874-0775

STRUCTURAL ENGINEER

INTEGRITY STRUCTURAL CORP.
12777 JONES RD., SUITE 388
HOUSTON, TX 77070
(281)894-7099

MEP ENGINEER

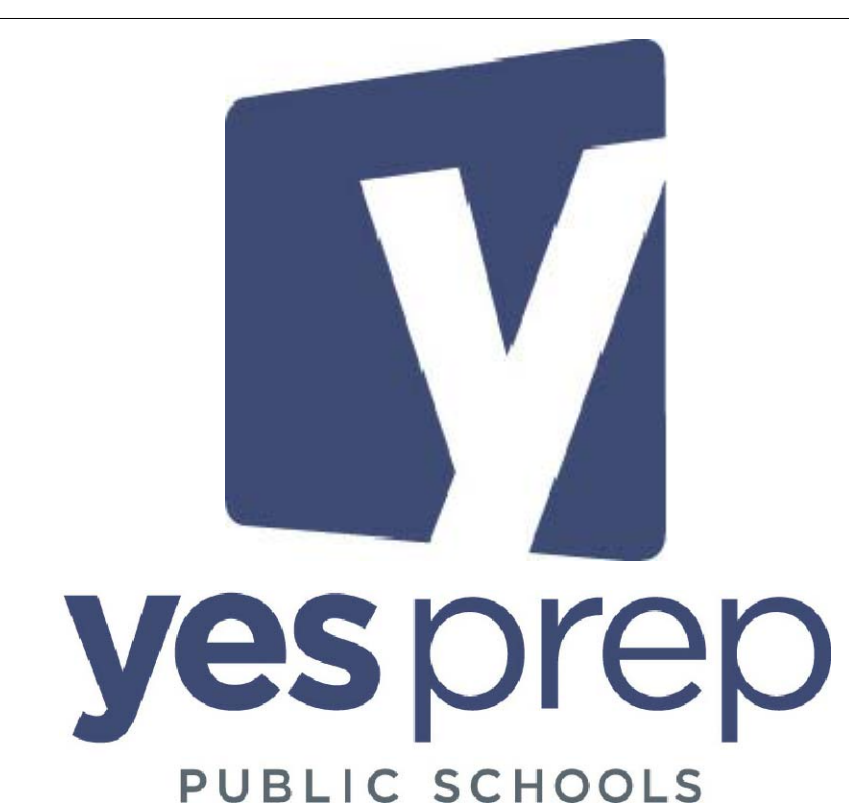
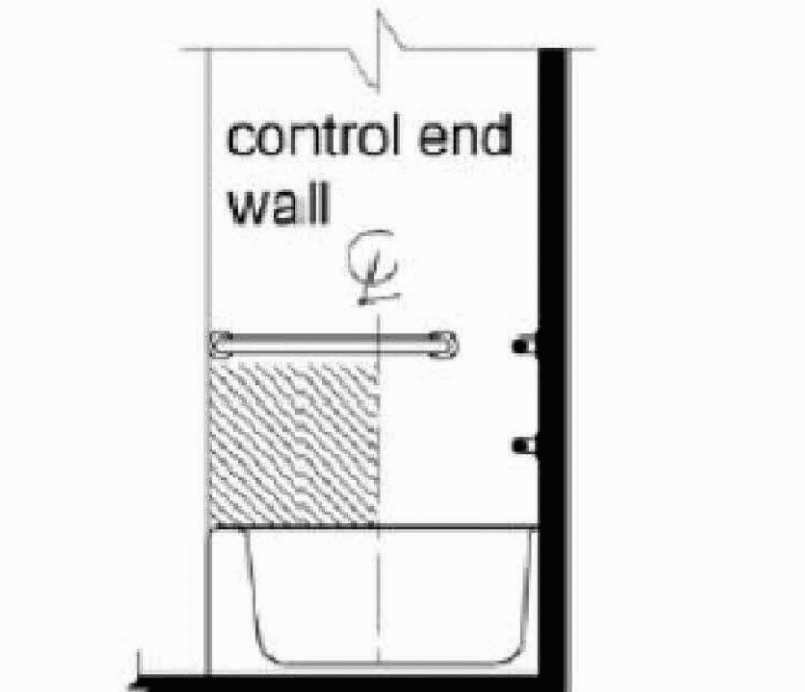
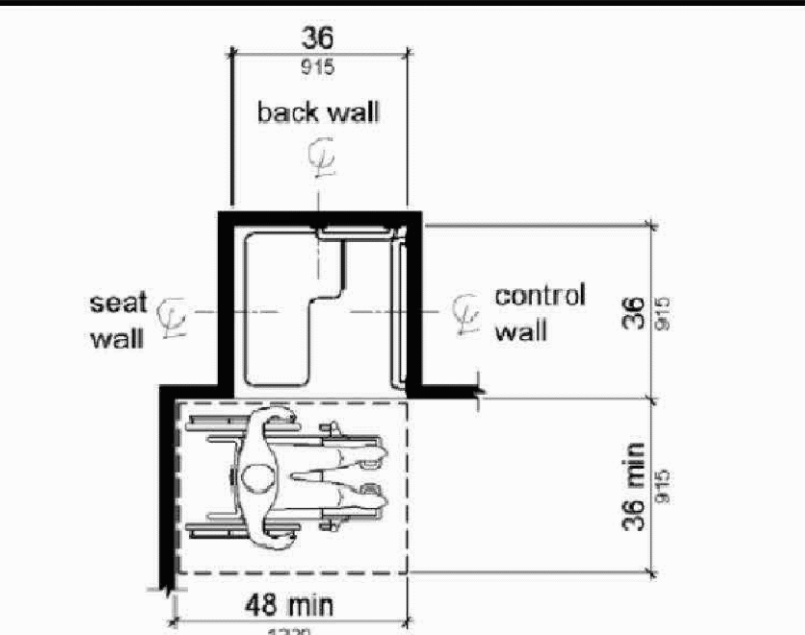
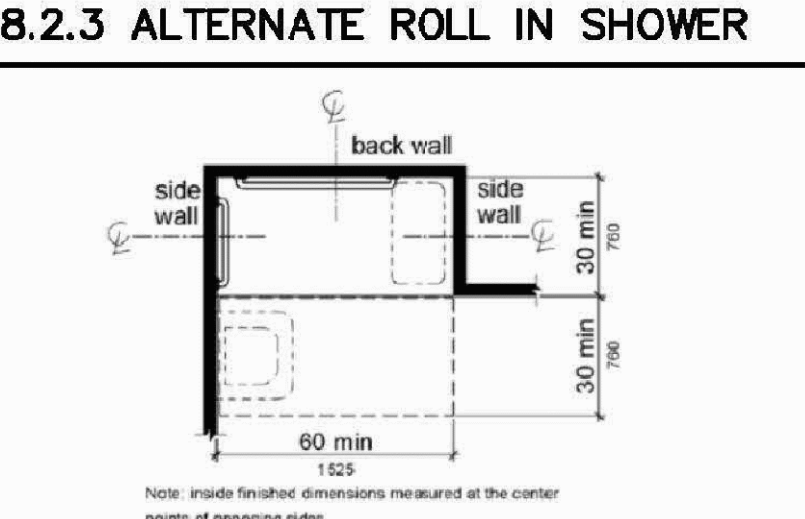
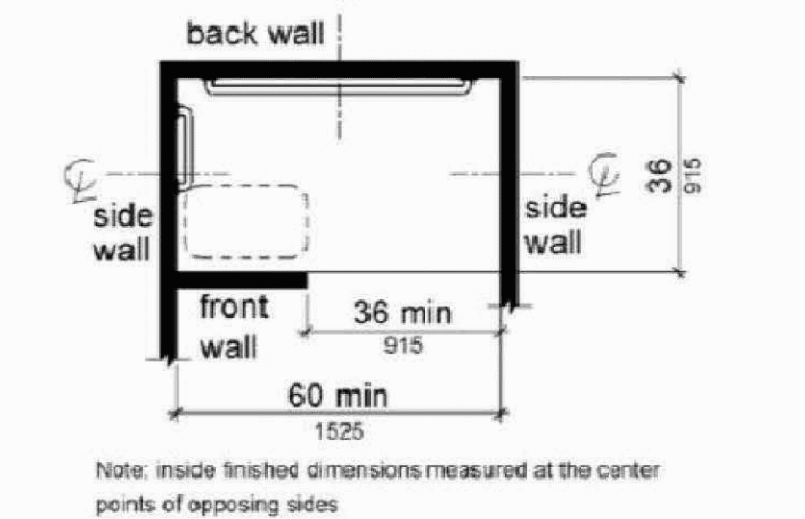
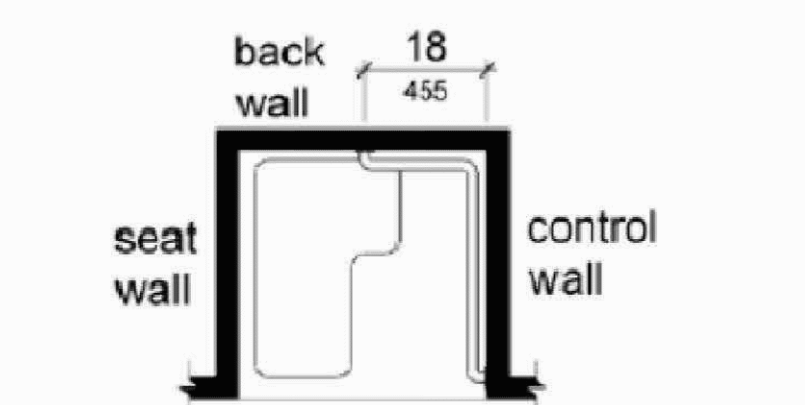
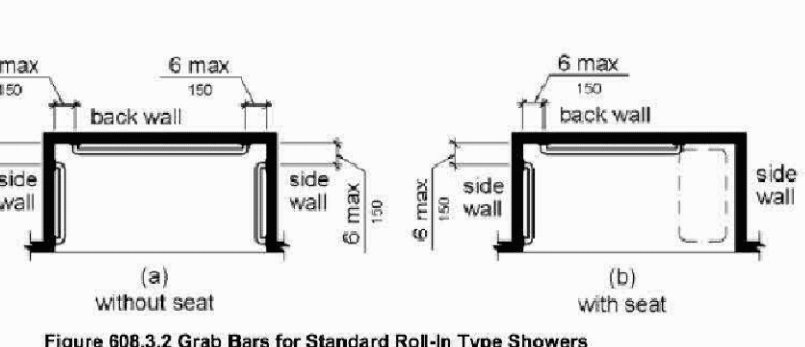
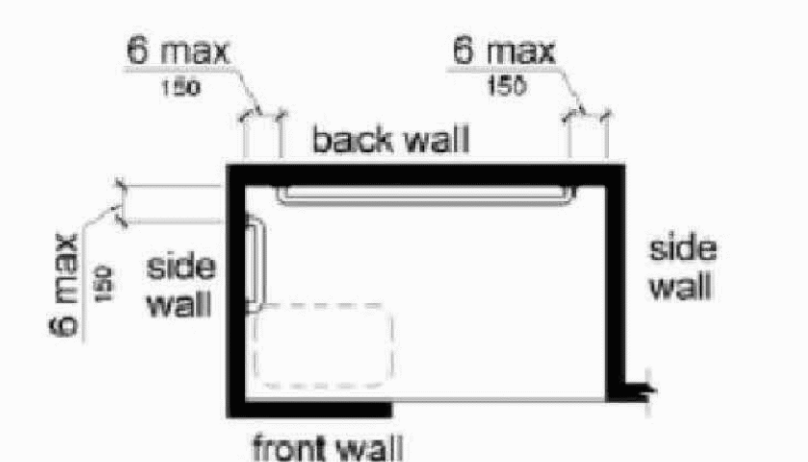
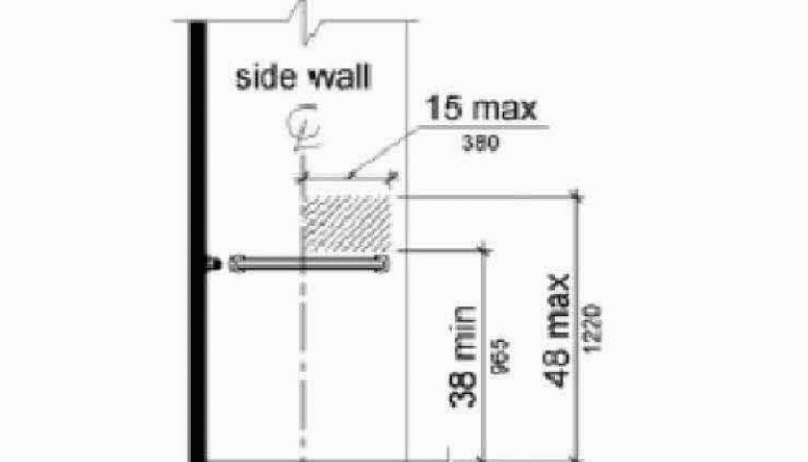
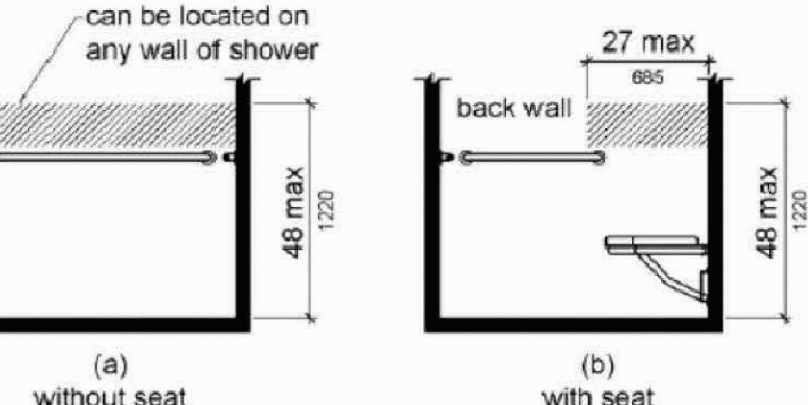
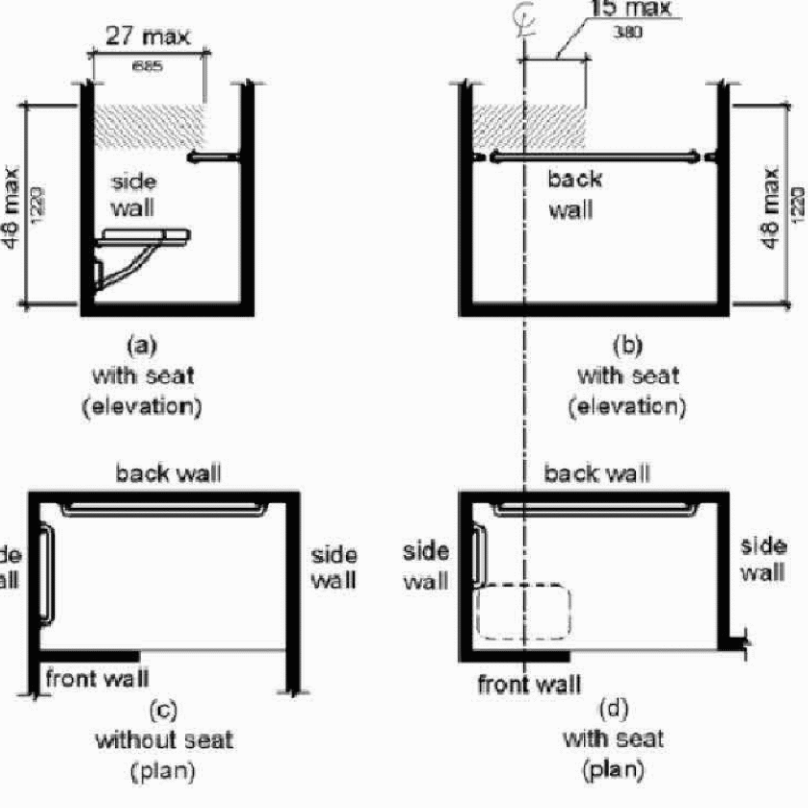
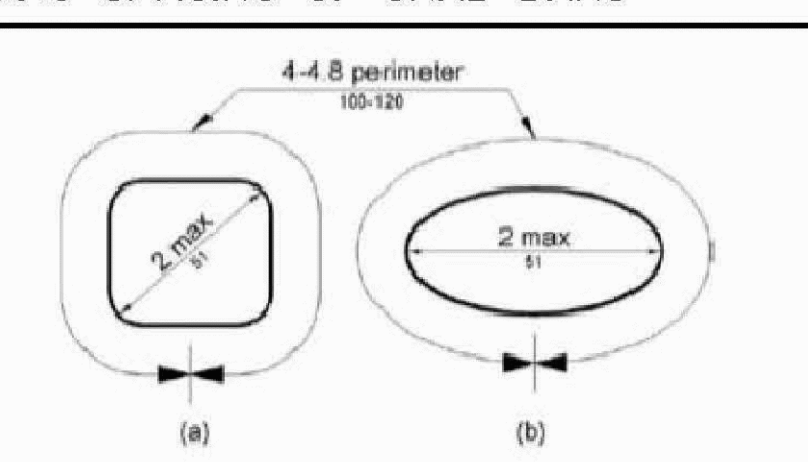
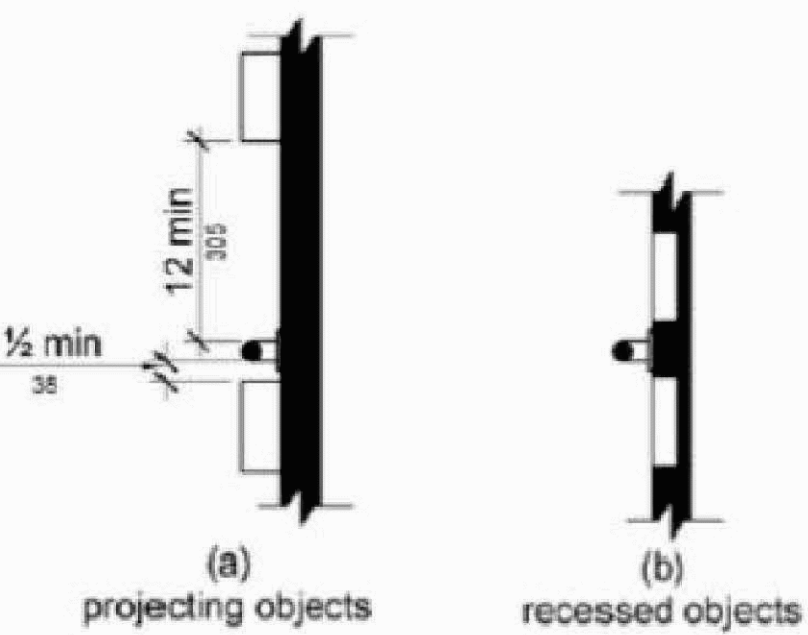
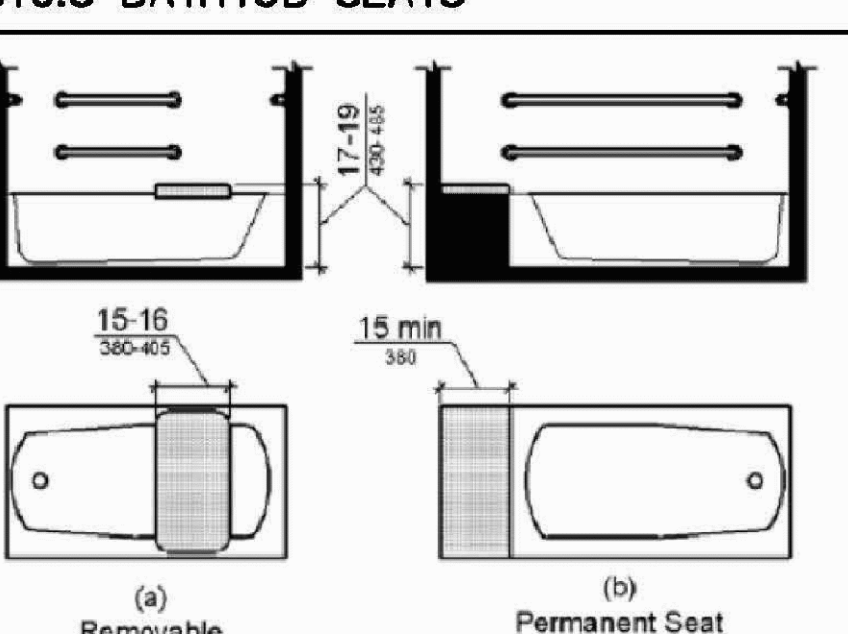
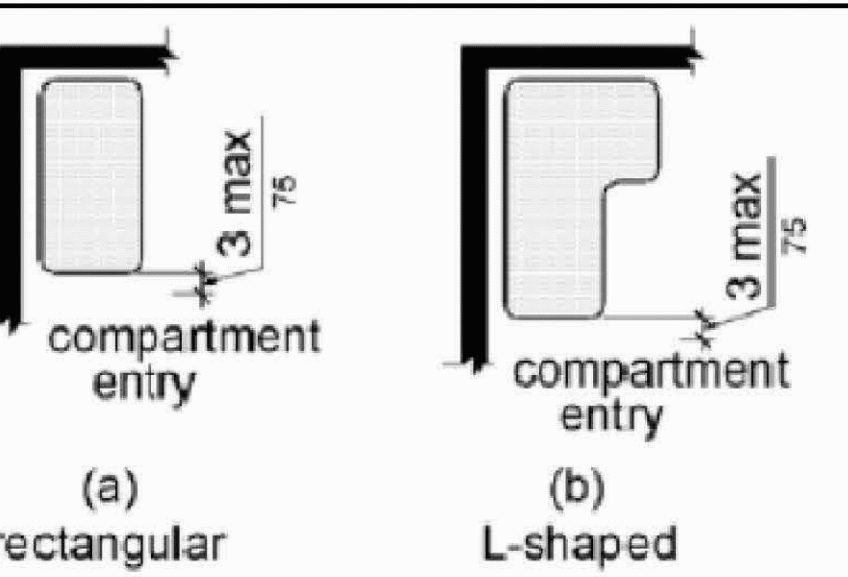
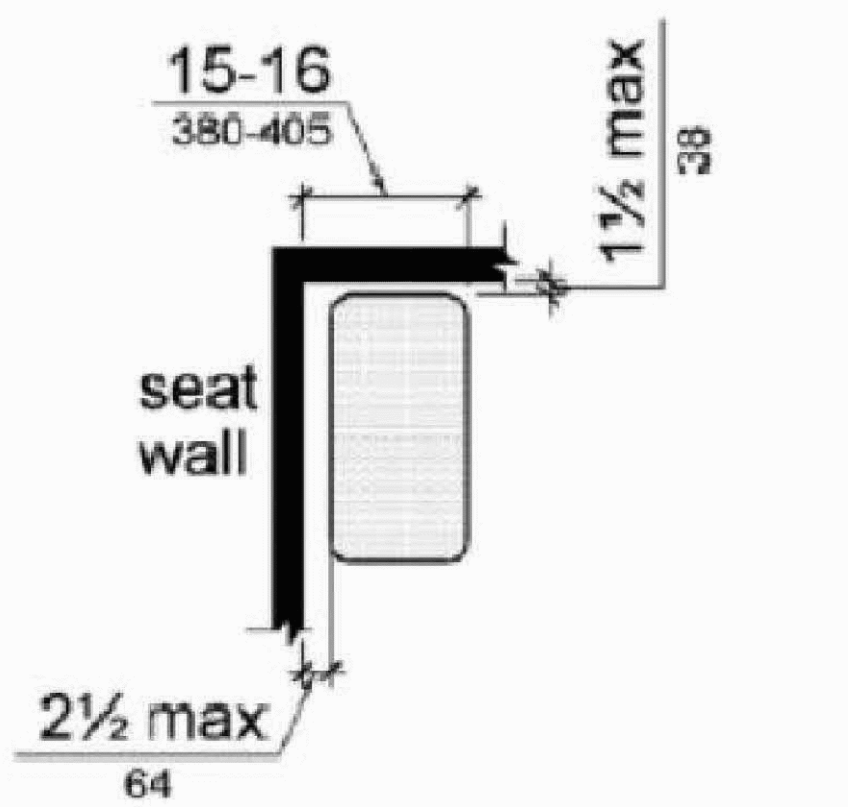
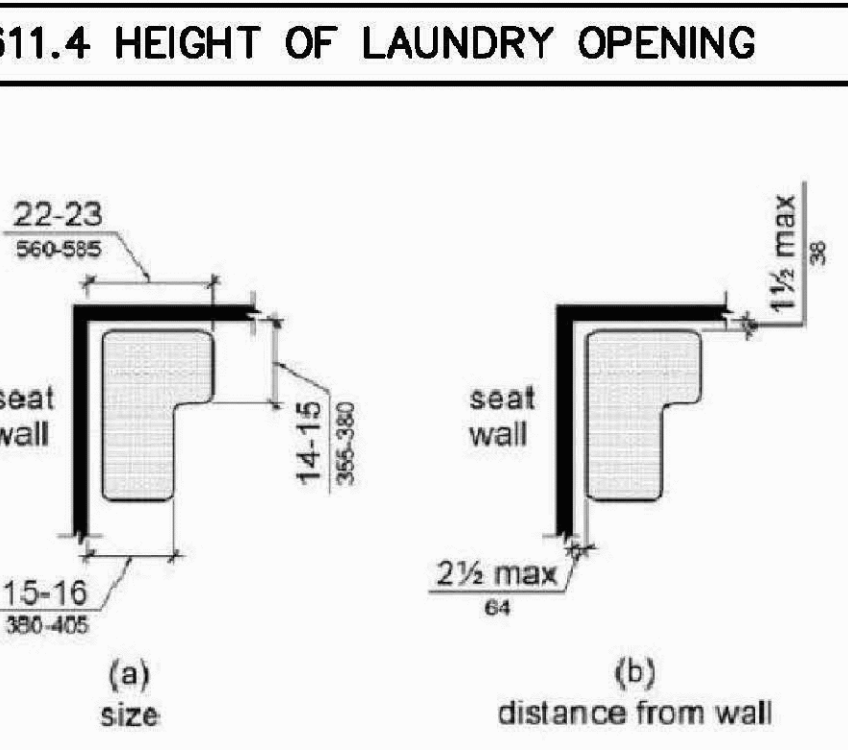
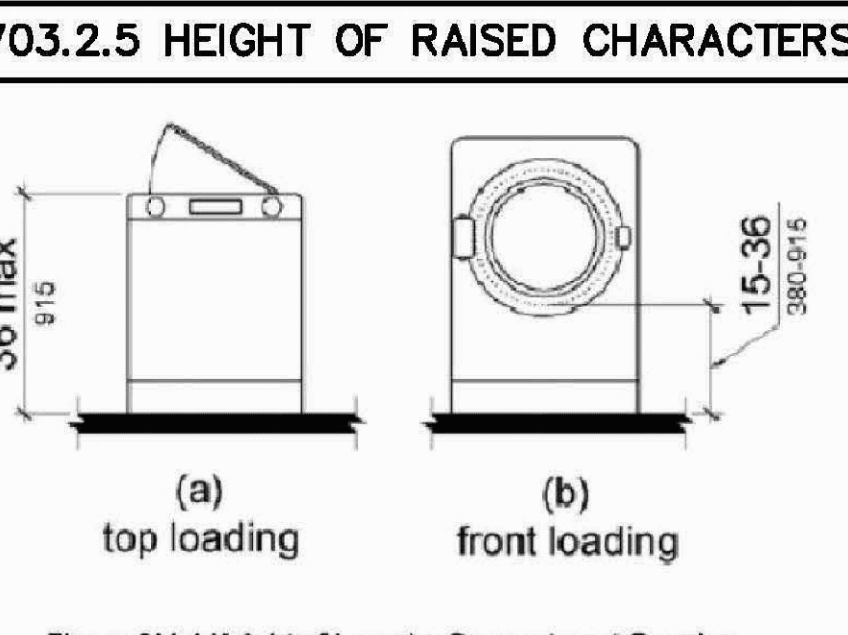
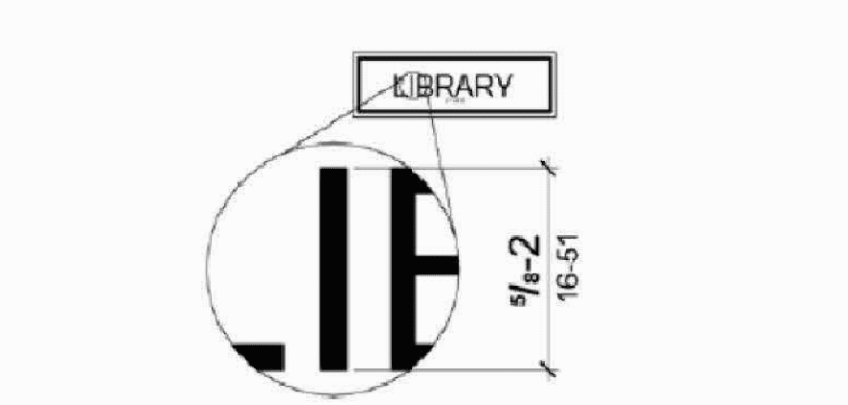
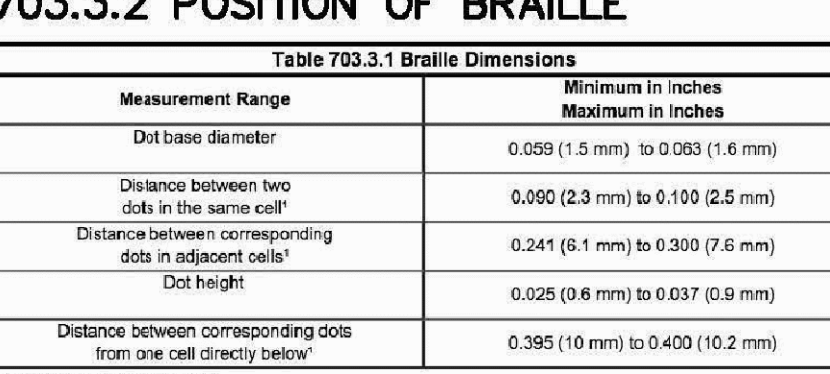
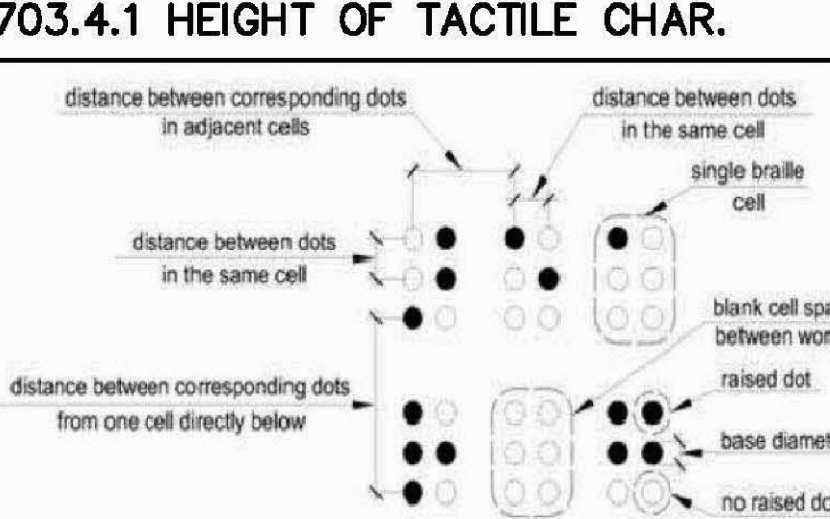
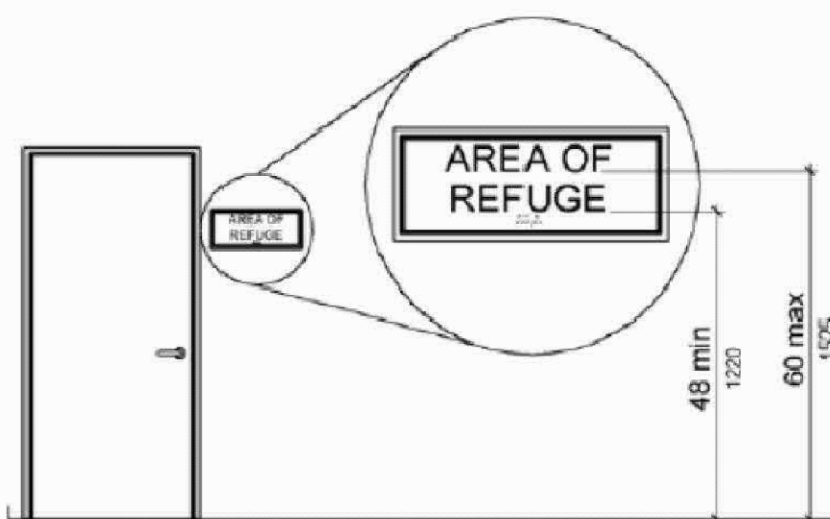
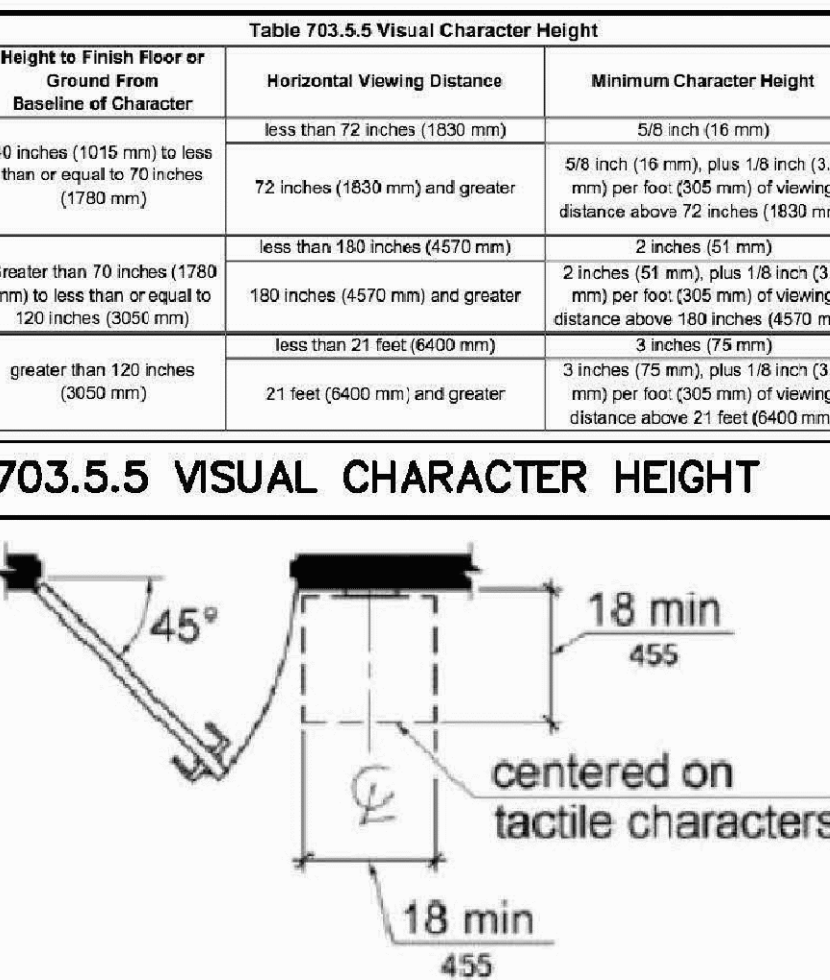
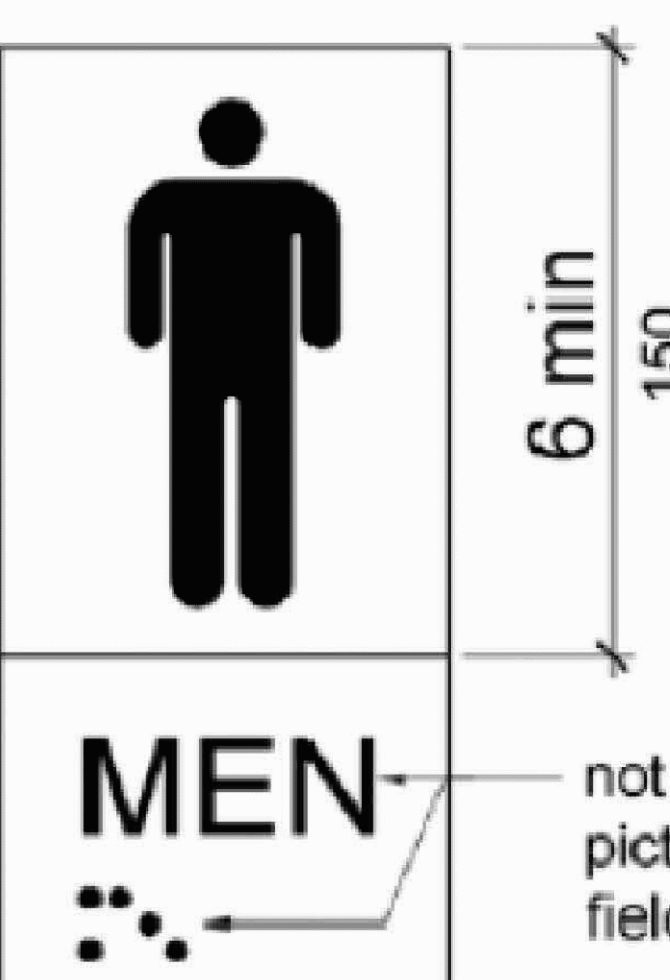
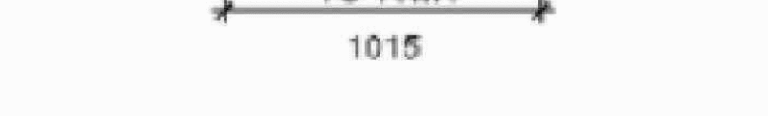
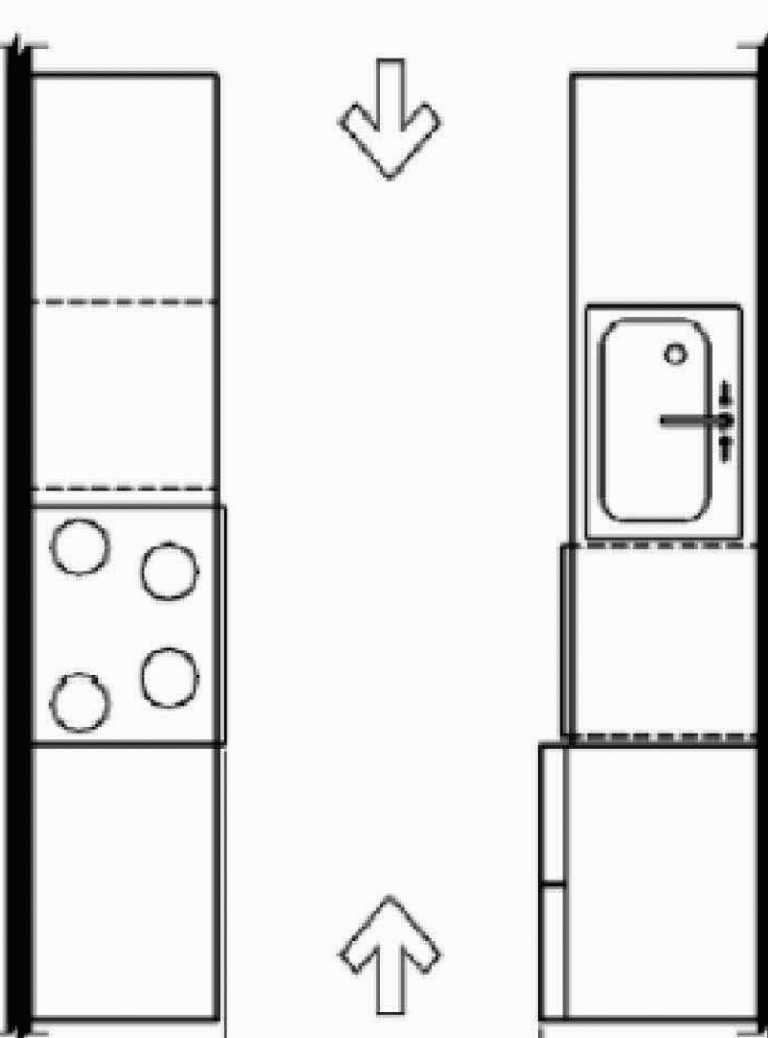
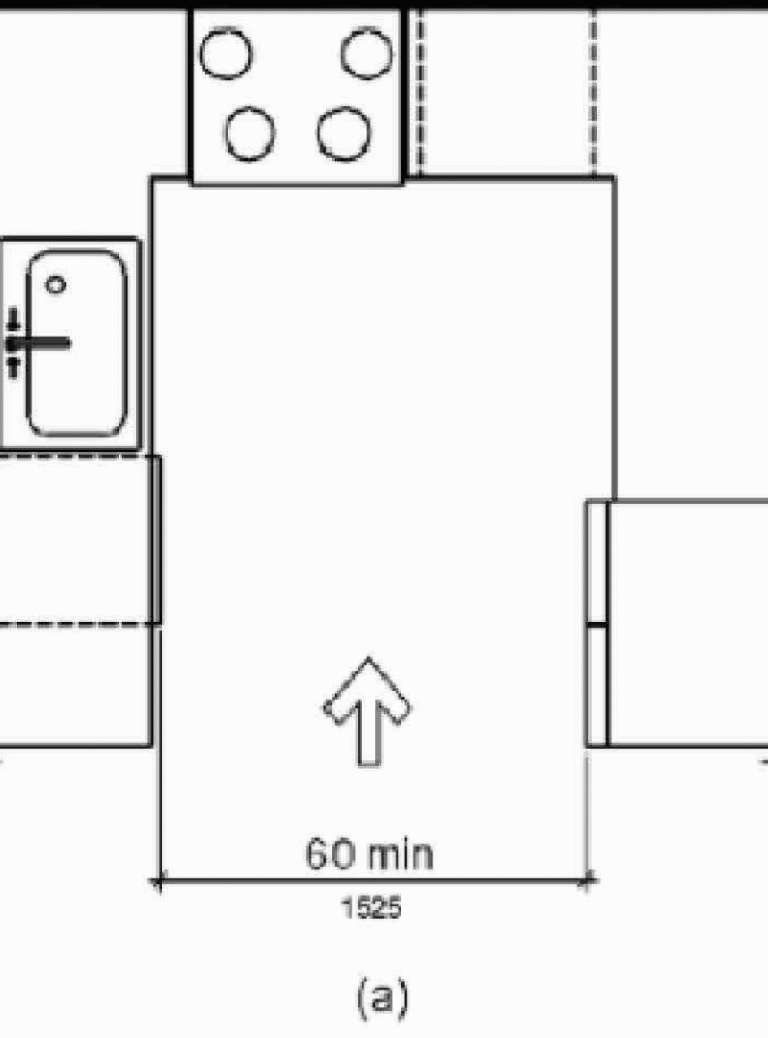
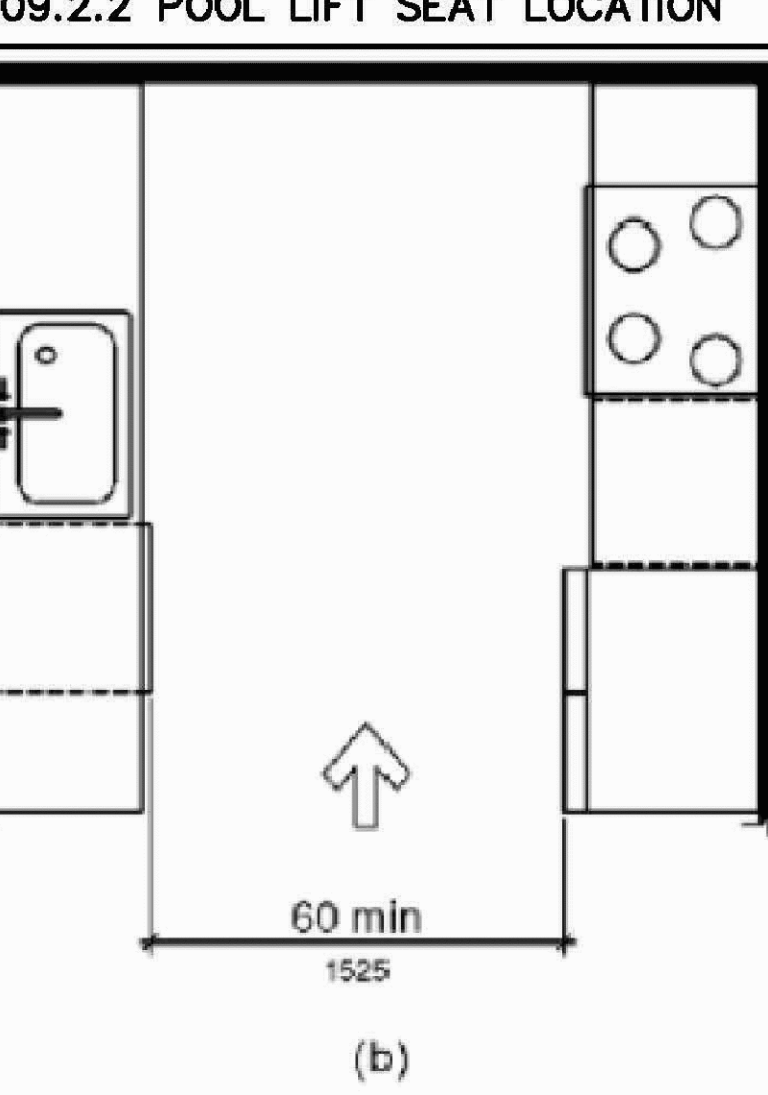
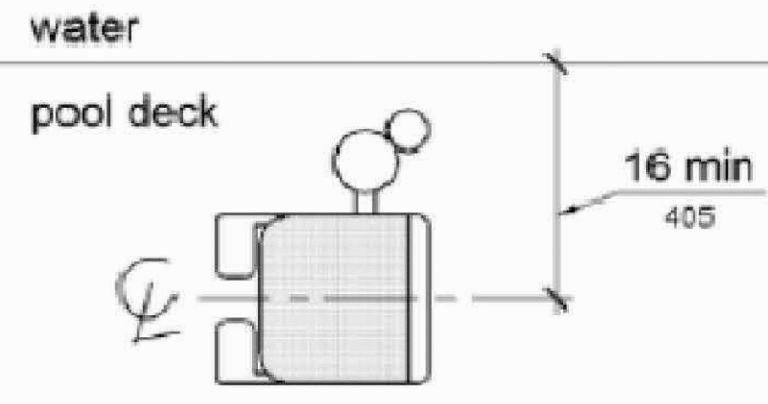
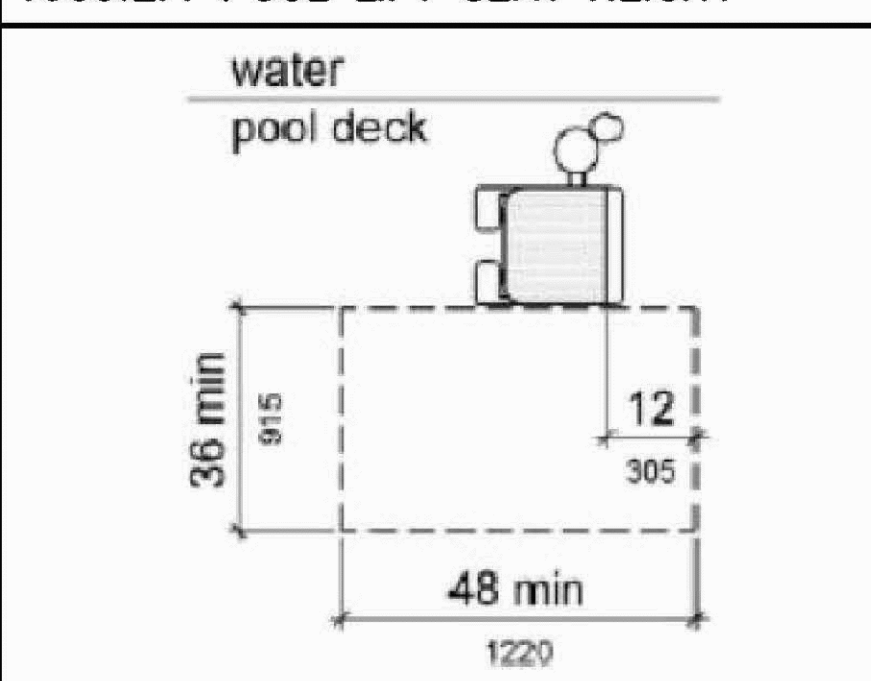
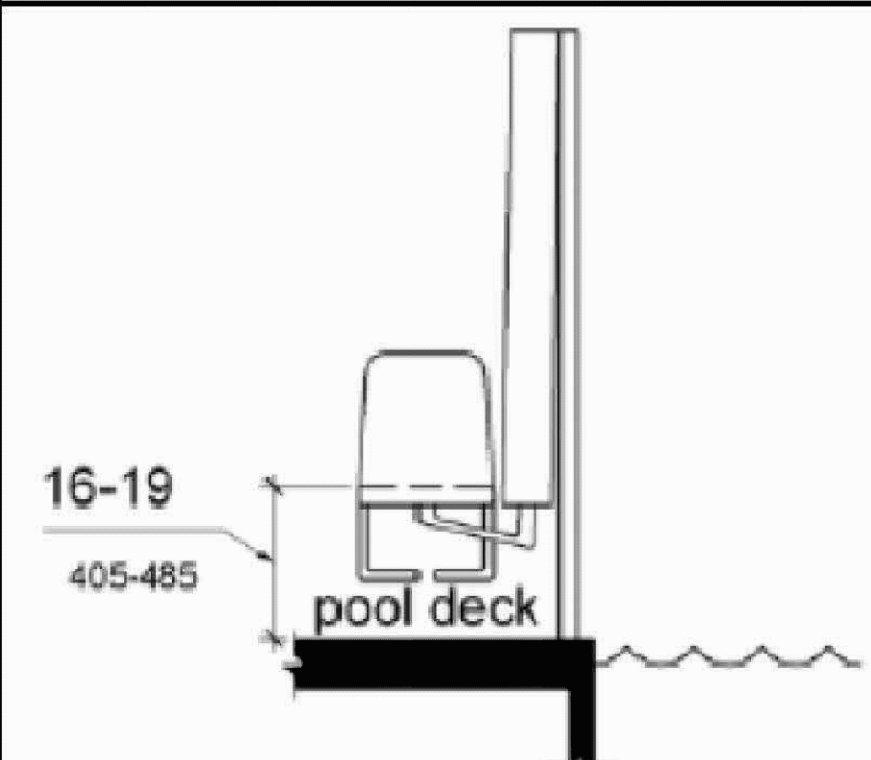
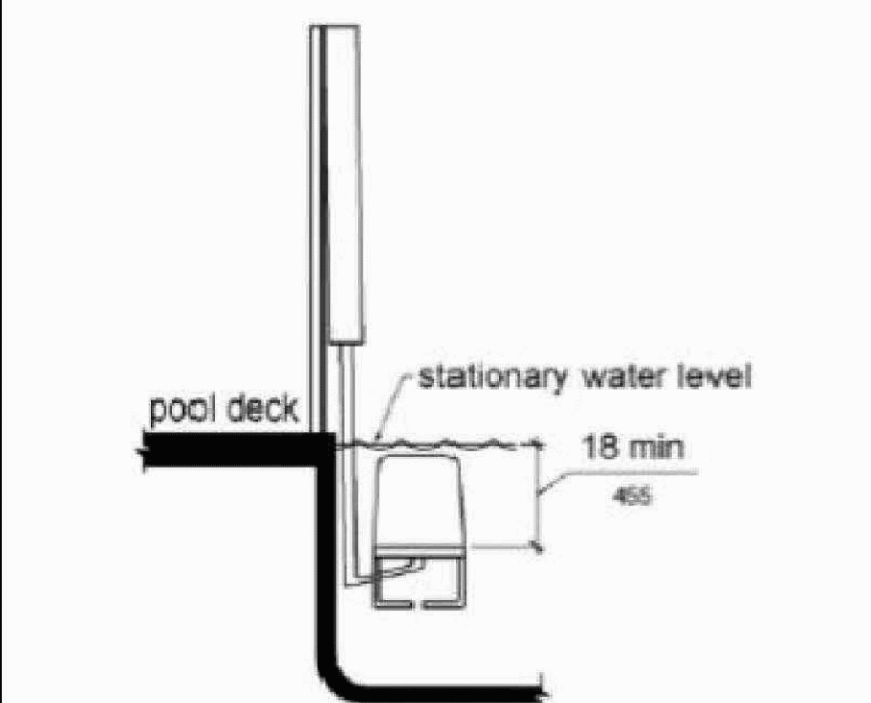
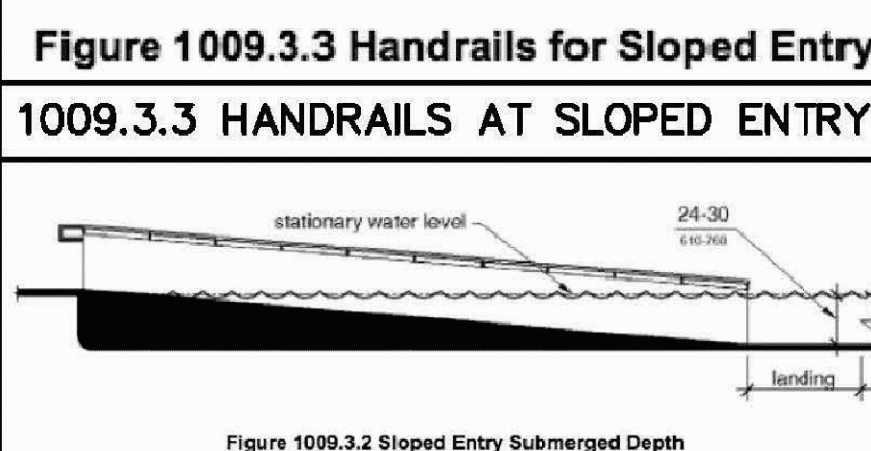
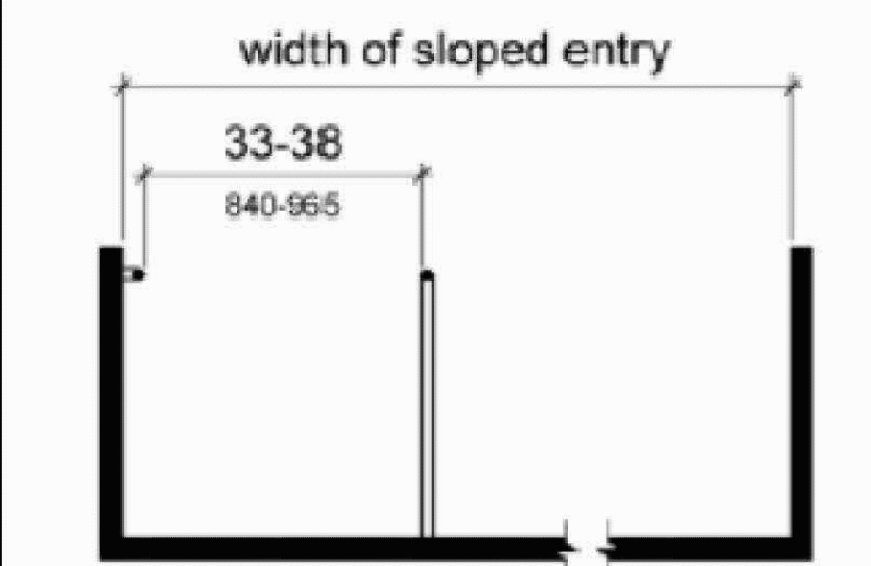
H4 ENGINEERS
25215 OAKHURST DRIVE
SPRING, TX 77386
(281)528-8584

302.2 CARPET PILE HEIGHT



Scale

404.2.0 BOOKS IN A SERIES

[illegible]

YES PREP SCHOOL

ADMINISTRATION
ADDITION

1305 BENSON ST.
HOUSTON, TEXAS 77020

ACCESSIBILITY

Project Number	21007
Date	02/15/21
Drawn By	
Checked By	

CS400
Scale

OCCUPANCY TYPE: E – EDUCATION

CONSTRUCTION TYPE: II-B

HEIGHT: 2 STORY

NON – SPRINKLERED

TABLE 503:
ALLOWABLE AREA (PER FLOOR):

14,500 S.F. + 10,875 S.F. (AREA FRONTAGE INCREASE) = 25,375 S.F./FLOOR
(SEC. 506.2)

$$I_f = \text{AREA INCREASE DUE TO FRONTAGE}$$
$$I_f = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$$
$$I_f = 100 \left[\frac{809'}{809'} - 0.25 \right] \frac{30}{30} = 75\% = 10,875 \text{ S.F.}$$

ACTUAL AREA:

1ST LEVEL	22,833 S.F.
2ND LEVEL	16,608 S.F.
TOTAL BLDG.	<u>39,441 S.F.</u>

MANUAL FIRE ALARM SYSTEM COMPLYING WITH SECTION 907.2.3

OCCUPANCY TYPE:
E - EDUCATION

CONSTRUCTION TYPE: V-B
HEIGHT: 1 STORY
NON - SPRINKLERED

TABLE 503:
ALLOWABLE AREA (PER FLOOR): 9,500 SF

ACTUAL AREA:

1,536SF	CLASSROOM MODULAR
1,536SF	CLASSROOM MODULAR
438SF	RESTROOM MODULAR
1,244SF	CANOPY STRUCTURE
<hr/>	
4,754 SF	TOTAL (ALL TOGETHER)

OCCUPANCY TYPE: E - EDUCATION

CONSTRUCTION TYPE: II-B
HEIGHT: 2 STORY
NON - SPRINKLERED

ADDITION AREA: 1,079 SQ. FT. AT FIRST FLOOR

ALLOWABLE AREA: 25,375 S.F. / FLOOR

ACTUAL AREA:

1ST LEVEL	22,833 S.F (EXISTING) + 1,079 (NEW) = 23,912 S.F.
2ND LEVEL	16,608 S.F.
TOTAL BLDG.	<u>40,520 S.F.</u>

* SCOPE OF WORK ENCLOSES EXISTING COVERED BREEZEWAY AREA

* OCCUPANCY NOT INCREASED AS SCOPE OF WORK DOES NOT INCREASE STUDENT OCCUPANTS

* MANUAL FIRE ALARM SYSTEM COMPLYING WITH SECTION 907.2.3

REQUIRED PARKING:

880 TOTAL OCCUPANTS	
308 HIGH SCHOOL OCCUPANTS @ 1 SPACE / 3 STUDENTS = 103 SPACES	
572 MIDDLE SCHOOL STUDENTS @ 1 SPACE / 7 STUDENTS = 82 SPACES	
<hr/>	
TOTAL SPACES REQUIRED:	185 SPACES

PROVIDED PARKING:

171 EXISTING PARKING SPACES
INCLUDING 8 ACCESSIBLE PARKING SPACES

4 BIKE RACK SPACES FOR REMAINING 14 PARKING SPACES AT 4 BIKE SPACES
PER 1 PARKING SPACE = 14 X 4 = 56 BIKE RACKS (UP TO 10% ALLOWED)

TOTAL SPACES PROVIDED: 185 SPACES

[illegible]

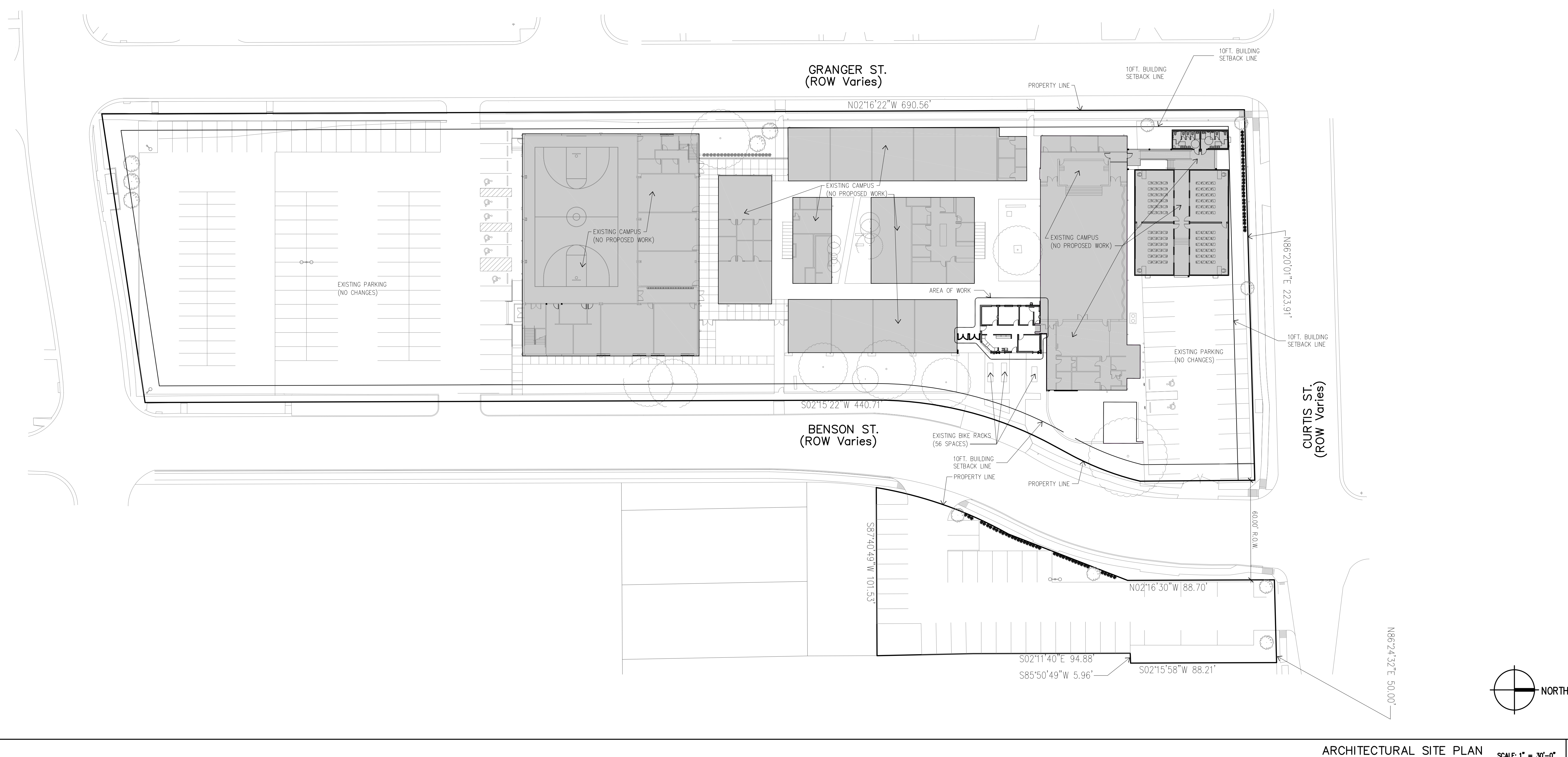
YES PREP SCHOOL

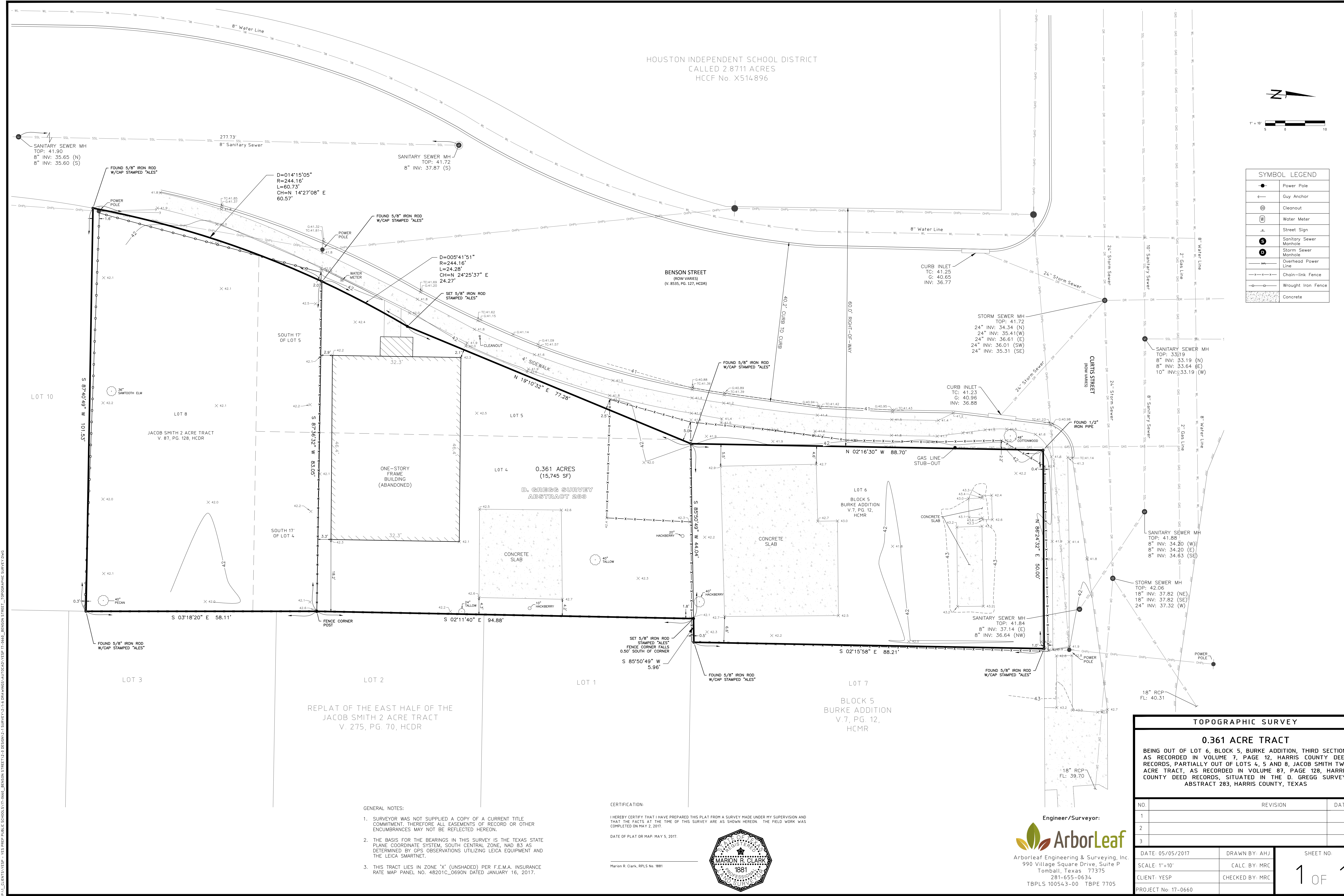
ADMINISTRATION ADDITION

1305 BENSON ST.
HOUSTON, TEXAS 77020

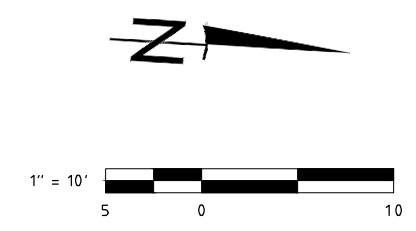
SITE PLAN

Project Number	21007
Date	02/15/21
Drawn By	
Checked By	
AS101	
Scale	





HOUSTON INDEPENDENT SCHOOL DISTRICT
CALLED 2.8711 ACRES
HCCF No. X514896



SYMBOL LEGEND	
	Power Pole
	Guy Anchor
	Cleanout
	Water Meter
	Street Sign
	Sanitary Sewer Manhole
	Storm Sewer Manhole
	Overhead Power Line
	Chain-link Fence
	Wrought Iron Fence
	Concrete

GENERAL NOTES:

- SURVEYOR WAS NOT SUPPLIED A COPY OF A CURRENT TITLE COMMITMENT. THEREFORE ALL EASEMENTS OF RECORD OR OTHER ENCUMBRANCES MAY NOT BE REFLECTED HEREON.
- THE BASIS FOR THE BEARINGS IN THIS SURVEY IS THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83 AS DETERMINED BY GPS OBSERVATIONS UTILIZING LEICA EQUIPMENT AND THE LEICA SMARTNET.
- THIS TRACT LIES IN ZONE 'X' (UNSHADED) PER F.E.M.A. INSURANCE RATE MAP PANEL NO. 48201C_0690N DATED JANUARY 16, 2017.

CERTIFICATION:

I HEREBY CERTIFY THAT I HAVE PREPARED THIS PLAT FROM A SURVEY MADE UNDER MY SUPERVISION AND THAT THE FACTS AT THE TIME OF THIS SURVEY ARE AS SHOWN HEREON. THE FIELD WORK WAS COMPLETED ON MAY 2, 2017.

DATE OF PLAT OR MAP: MAY 5, 2017.

Marion R. Clark, RPLS No. 1881



Engineer/Surveyor:

ArborLeaf
Arborleaf Engineering & Surveying, Inc.
990 Village Square Drive, Suite P
Tomball, Texas 77375
281-655-0634
TBPLS 100543-00 TBPE 7705

TOPOGRAPHIC SURVEY

0.361 ACRE TRACT

BEING OUT OF LOT 6, BLOCK 5, BURKE ADDITION, THIRD SECTION, AS RECORDED IN VOLUME 7, PAGE 12, HARRIS COUNTY DEED RECORDS, PARTIALLY OUT OF LOTS 4, 5 AND 8, JACOB SMITH TWO ACRE TRACT, AS RECORDED IN VOLUME 87, PAGE 128, HARRIS COUNTY DEED RECORDS, SITUATED IN THE D. GREGG SURVEY, ABSTRACT 283, HARRIS COUNTY, TEXAS

NO.	REVISION	DATE
1		
2		
3		

DATE: 05/05/2017	DRAWN BY: AHJ	SHEET NO:
SCALE: 1"=10'	CALC. BY: MRC	1 OF 1
CLIENT: YESP	CHECKED BY: MRC	
PROJECT No: 17-0660		



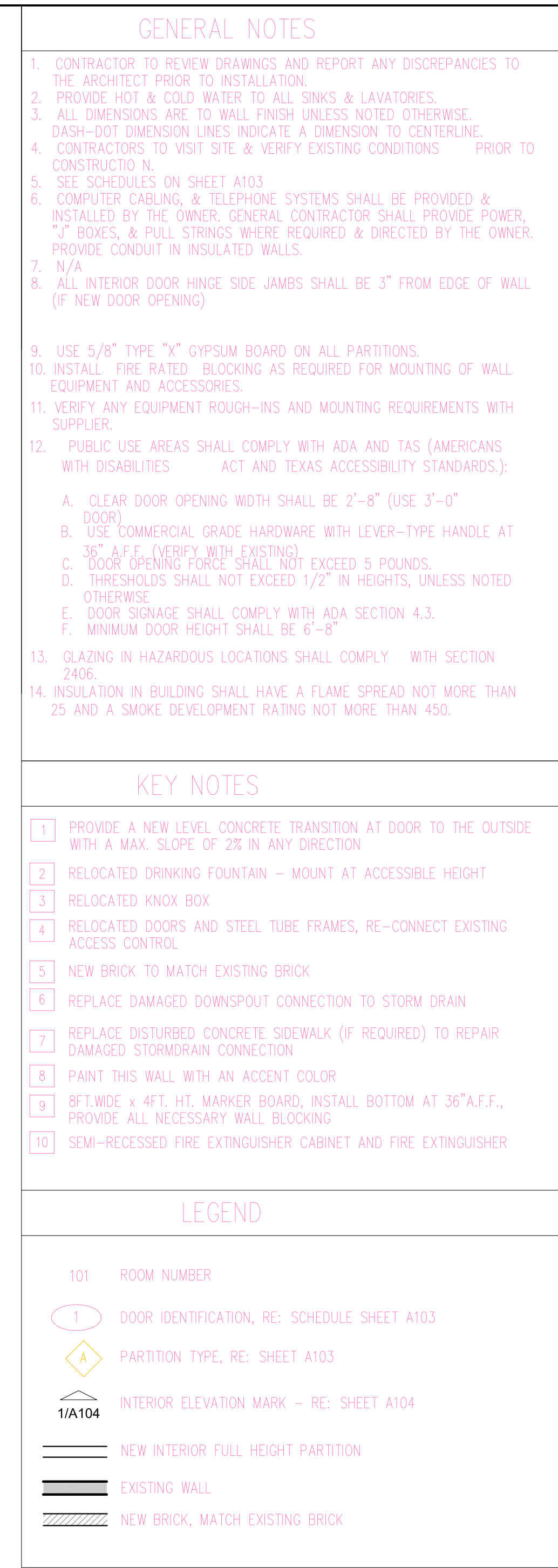
- DEMOLITION KEY NOTES

- 



1305 BENSON ST.
HOUSTON, TEXAS 77020

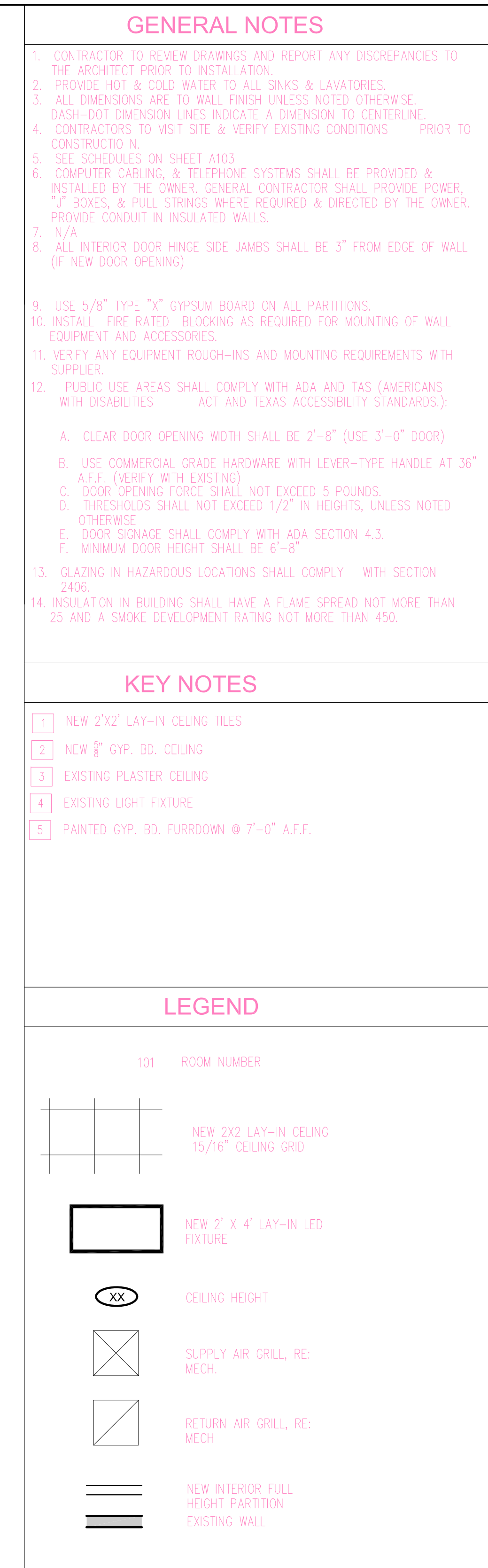
Project Number	21007
Date	02/15/21
Drawn By	
Checked By	
Scale	

[illegible]

NEW FLOOR PLAN

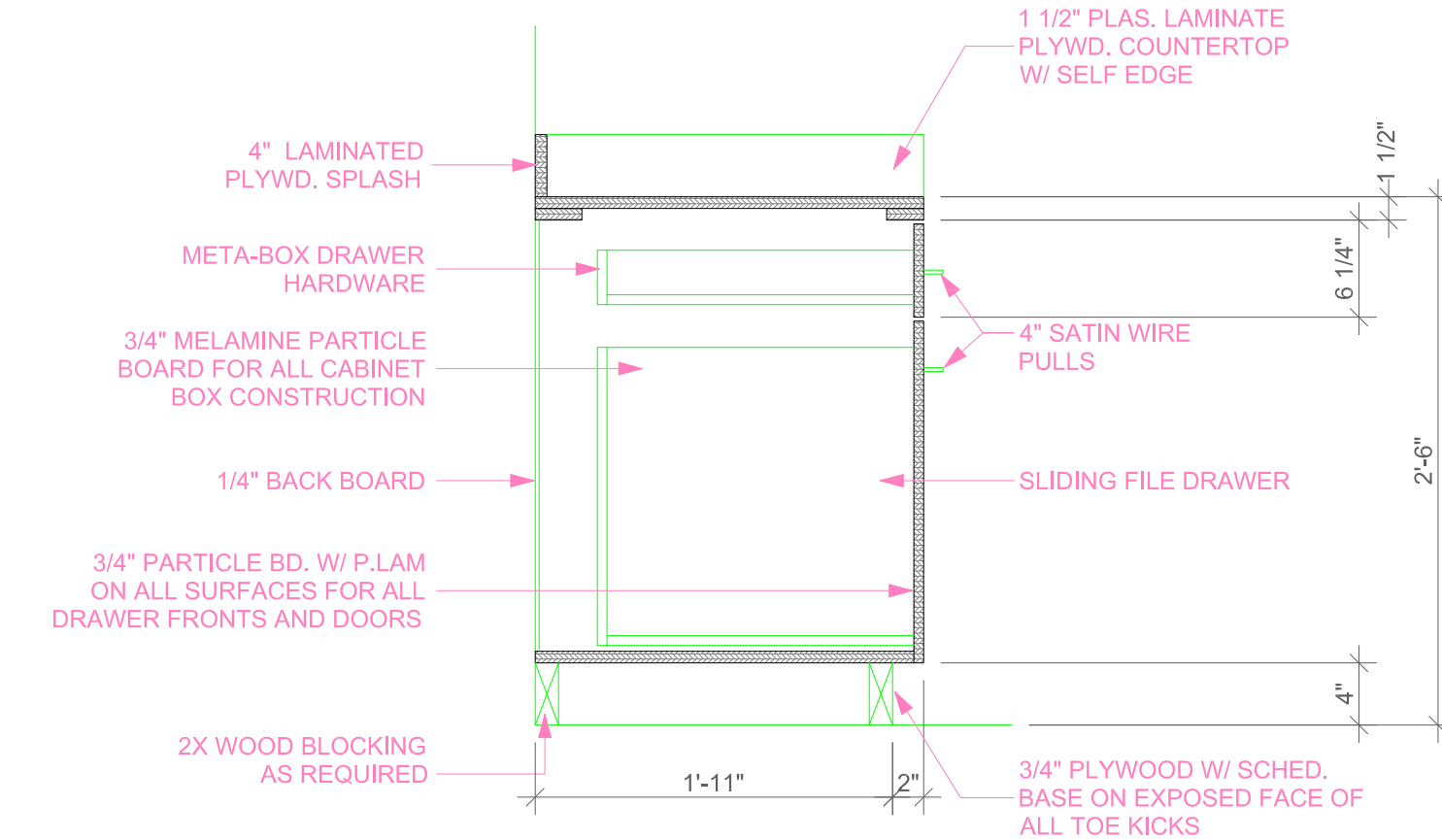
A101

Scale



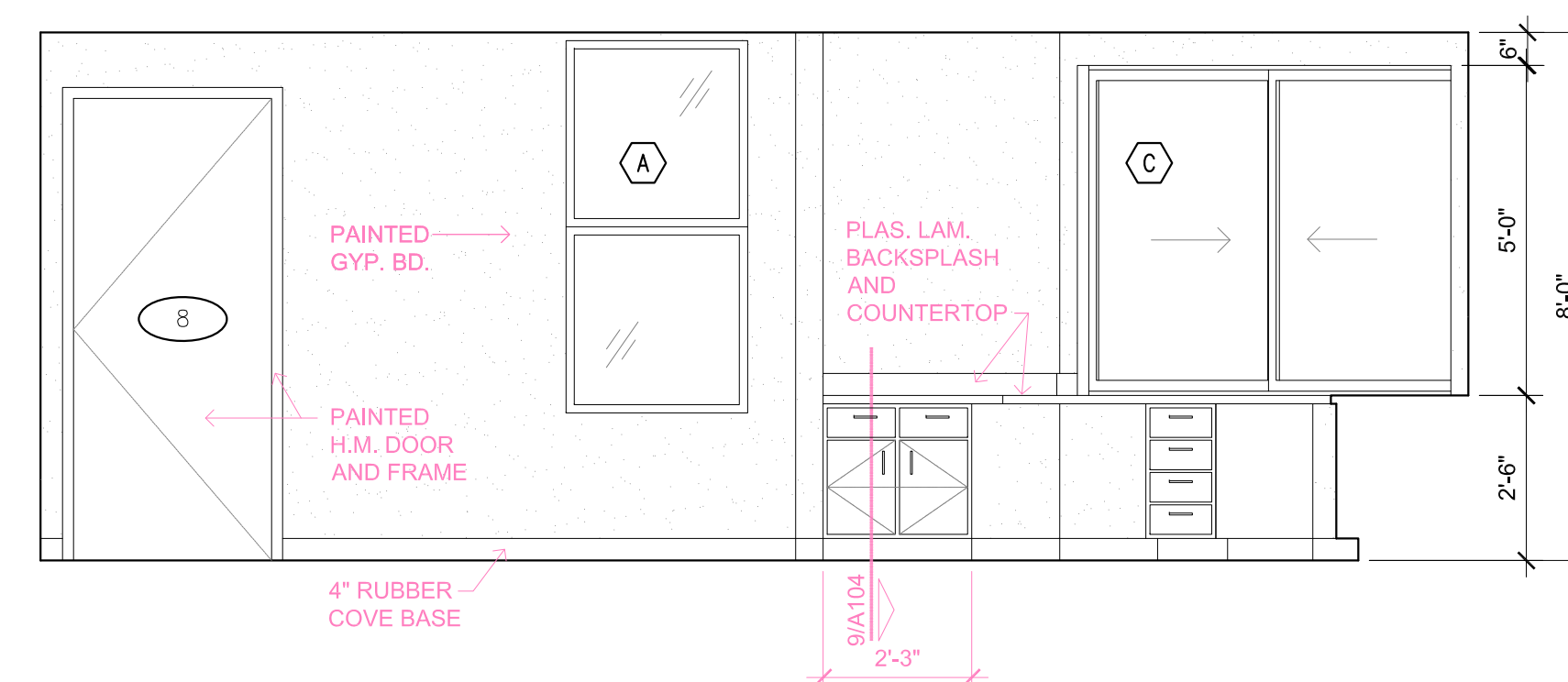
REFLECTED CEILING PLAN	SCALE: $1/4" = 1'-0"$	1
------------------------	-----------------------	---

[illegible]



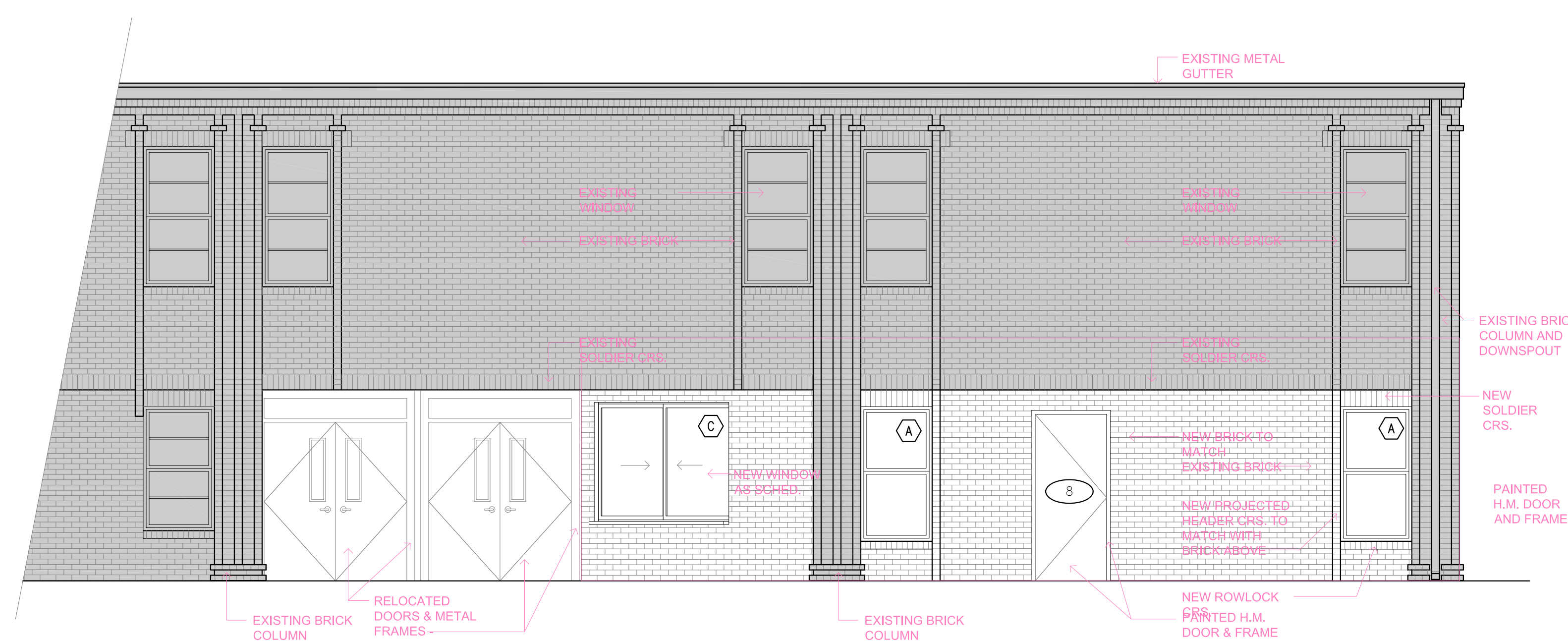
FILE CABINET DTL.

8



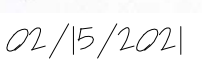
INTERIOR ELEVATION

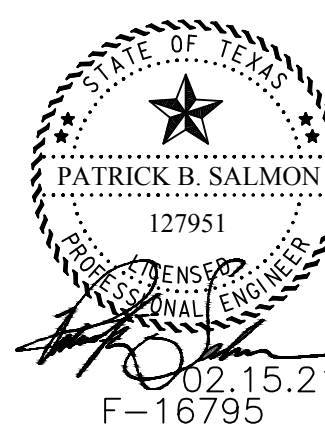
SCALE: 2.05 = 4.05



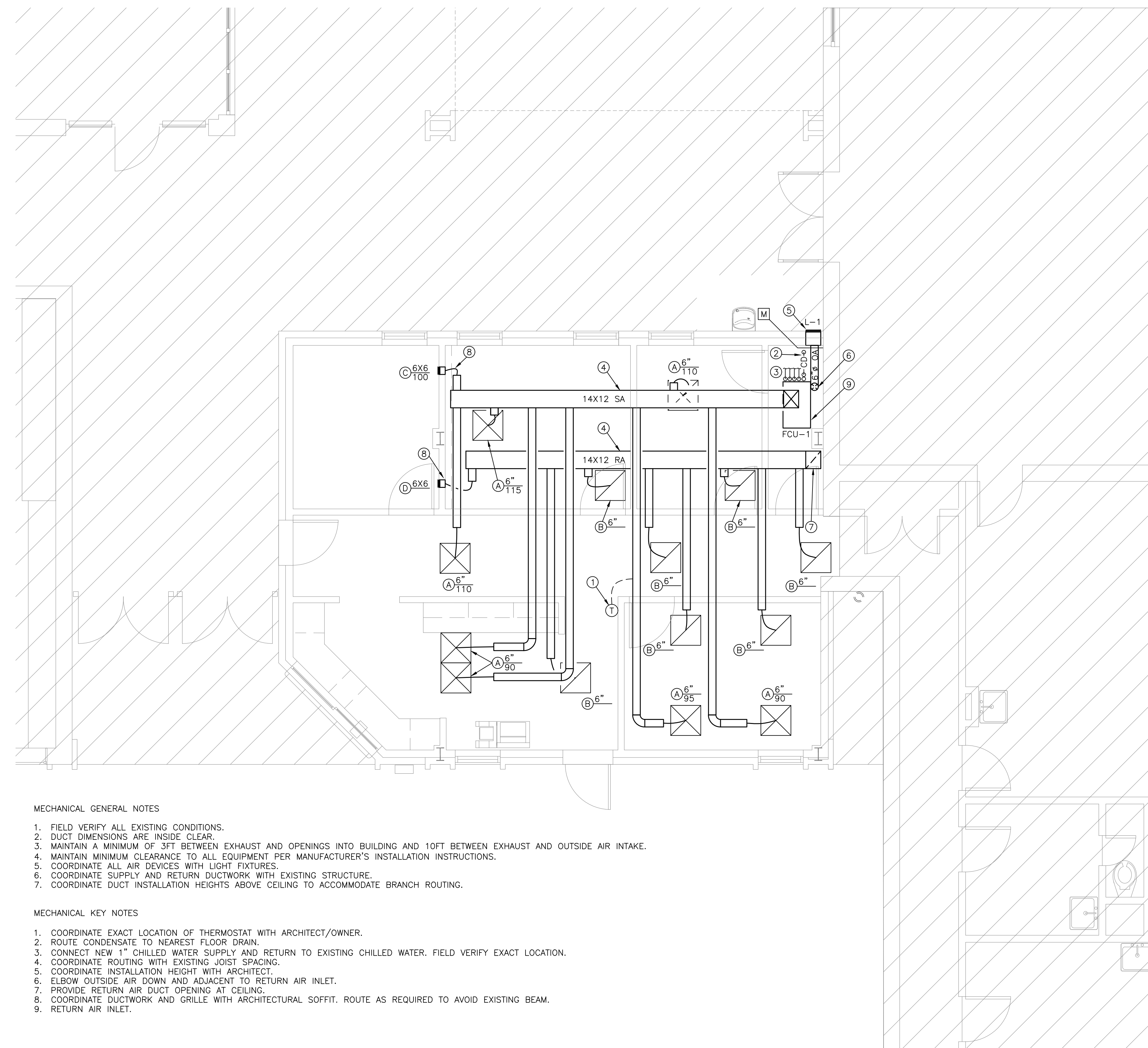
EXTERIOR ELEVATION

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

Scale

[illegible]

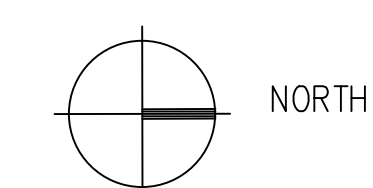
Scale	
-------	--

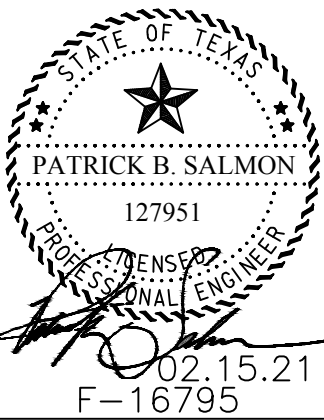


1. FIELD VERIFY ALL EXISTING CONDITIONS.
2. DUCT DIMENSIONS ARE INSIDE CLEAR.
3. MAINTAIN A MINIMUM OF 3FT BETWEEN EXHAUST AND OPENINGS INTO BUILDING AND 10FT BETWEEN EXHAUST AND OUTSIDE AIR INTAKE.
4. MAINTAIN MINIMUM CLEARANCE TO ALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. COORDINATE ALL AIR DEVICES WITH LIGHT FIXTURES.
6. COORDINATE SUPPLY AND RETURN DUCTWORK WITH EXISTING STRUCTURE.
7. COORDINATE DUCT INSTALLATION HEIGHTS ABOVE CEILING TO ACCOMMODATE BRANCH ROUTING.

1. COORDINATE EXACT LOCATION OF THERMOSTAT WITH ARCHITECT/OWNER.
2. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN.
3. COORDINATE NEW 1" CHILLED WATER SUPPLY AND RETURN TO EXISTING CHILLED WATER. FIELD VERIFY EXACT LOCATION.
4. COORDINATE ROUTING WITH EXISTING JOIST SPACING.
5. COORDINATE INSTALLATION HEIGHT WITH ARCHITECT.
6. ELBOW OUTSIDE AIR DOWN AND ADJACENT TO RETURN AIR INLET.
7. PROVIDE RETURN AIR DUCT OPENING AT CEILING.
8. COORDINATE DUCTWORK AND GRILLE WITH ARCHITECTURAL SOFFIT. ROUTE AS REQUIRED TO AVOID EXISTING BEAM.
9. RETURN AIR INLET.




























1 MECHANICAL PLAN
1/4" = 1'-0"





Project Number	21007
Date	01/22/21
Drawn By	MGJ
Checked By	SEH
<h1>M201</h1>	
Scale	

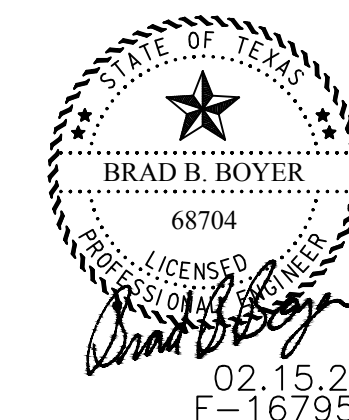
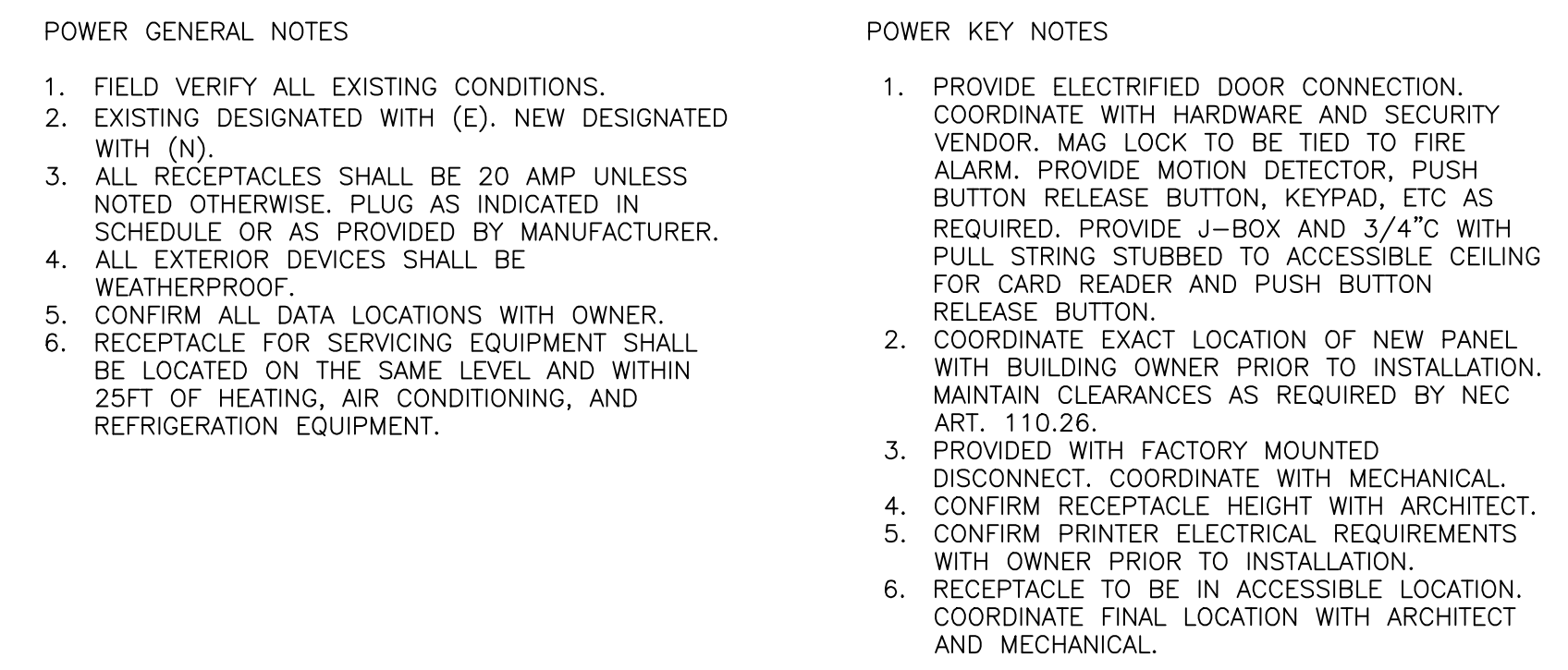
[illegible]

ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
	OCCUPANCY SENSOR SWITCH
	SINGLE POLE SWITCH
	THREE WAY SWITCH
	MANUAL MOTOR STARTER
	NEMA 5-20R DUPLEX RECEPTACLE
	NEMA 5-20R DUPLEX RECEPTACLE (ABOVE COUNTER)
	NEMA 5-20R GFI RECEPTACLE
	NEMA 5-20R QUADRAPLEX RECEPTACLE
	FLUSH FLOOR RECEPTACLE
	PEDESTAL MOUNTED NEMA 5-15R DUPLEX RECEPTACLE
	DATA OUTLET 1" CONDUIT TO ABOVE CEILING
	VOICE OUTLET
	COMBINATION DATA/VOICE OUTLET
	FLUSH FLOOR DATA OUTLET
	CIRCUIT HOMERUN-ARROWHEADS INDICATE QUANTITY OF CIRCUITS
	CONCEALED CONDUIT
	EXTERIOR CONDUIT BELOW GRADE
	CONCEALED CONDUIT BELOW SLAB
	MOTOR
	TV CABLE OUTLET
	EXIT LIGHT
	POLE-MOUNTED SITE LAMP
	JUNCTION BOX
	SMOKE DETECTOR
	FIRE ALARM - HORN/STROBE
	EMERGENCY LIGHT - WALL PACK
	DISCONNECT

ENERGY CODE COMPLIANCE REQUIREMENTS	
COMMISSIONING PLAN	
A. FUNCTIONAL PERFORMANCE TESTING: EQUIPMENT FUNCTIONAL PERFORMANCE TESTING SHALL PROVIDE EVIDENCE THAT THE LIGHT CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT THE CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS.	
1. OCCUPANT SENSOR CONTROLS: THE FOLLOWING PROCEDURES SHALL BE PERFORMED:	
a. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.	
b. FOR PROJECTS WITH SEVEN OR FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.	
c. FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10%, BUT IN NO CASE LESS THAN 1%, OF EACH COMBINATION SHALL BE TESTED, WHERE 30% OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.	
d. FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:	
d.a. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.	
d.b. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.	
d.c. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.	
d.d. FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.	
d.e. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.	
2. TIME SWITCH CONTROLS: THE FOLLOWING PROCEDURES SHALL BE PERFORMED:	
a. CONFIRM THAT THE TIME SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND, AND HOLIDAY SCHEDULES.	
b. PROVIDE DOCUMENTATION TO THE OWNER OF THE TIME SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SETUP AND PREFERENCE PROGRAM SETTINGS.	
c. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.	
d. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.	
e. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.	
f. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:	
f.a. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.	
f.b. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.	
g. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:	
g.a. NONEXEMPT LIGHTING TURNS OFF.	
g.b. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUT-OFF OCCURS.	
3. DAYLIGHT RESPONSIVE CONTROLS: THE FOLLOWING PROCEDURES SHALL BE PERFORMED:	
a. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED, AND SET FOR ACCURATE SETPOINTS AND THRESHOLD LIGHT LEVELS.	
b. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.	
c. THE LOCATIONS OF CALIBRATION EQUIPMENT ARE READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.	
B. COMMISSIONING REPORT	
1. ELECTRICAL CONTRACTOR SHALL PROVIDE A REPORT OF THE ABOVE COMMISSIONING TEST PROCEDURES AND RESULTS AND PROVIDE TO GENERAL CONTRACTOR TO COMPILE WITH MECHANICAL AND PLUMBING REPORTS.	
2. REPORT SHALL IDENTIFY ANY DEFICIENCIES THAT HAVE NOT YET BEEN CORRECTED, DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION BECAUSE OF CLIMATIC CONDITIONS, AND CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS.	
3. GENERAL CONTRACTOR SHALL PROVIDE COMPILED REPORT TO OWNER/REPRESENTATIVE.	
DOCUMENTATION REQUIREMENTS	
A. WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE THE FOLLOWING DOCUMENTS SHALL BE PROVIDED TO THE OWNER:	
1. MANUALS: OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:	
a. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS.	
b. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING, AND RECOMMENDED RELAXING SHALL BE CLEARLY IDENTIFIED.	
c. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.	
d. NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.	
e. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SET-POINTS.	

DIVISION 26 – ELECTRICAL	
260000 ELECTRICAL BASIC REQUIREMENTS	
A. MINIMUM STANDARDS FOR ALL WORK SHALL BE CITY OF HOUSTON AMENDMENTS TO THE 2020 NATIONAL ELECTRICAL CODE, 2020 INTERNATIONAL ENERGY CONSERVATION CODE, AND 2012 INTERNATIONAL BUILDING CODE.	
B. REFERENCES: THE STANDARDS MENTIONED HEREIN WILL BE REFERRED TO IN THE DESIGN OF ELECTRICAL SYSTEMS. THE ENGINEER WILL SELECT APPROPRIATE SECTIONS OF THE STANDARD TO BE APPLIED IN ACCORDANCE WITH ESTABLISHED ENGINEERING PRINCIPLES AND PRACTICES.	
1. APPLICABLE SECTIONS OF NFPA	
2. AMERICANS WITH DISABILITIES ACT (ADA)	
3. TEXAS ACCESSIBILITY STANDARDS (TAS)	
C. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID DATE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING INSTALLATIONS. DETERMINE THE EXTENT OF THE NEW WORK TO PERFORM THIS CONTRACT. NO ALLOWANCES WILL BE MADE FOR FAILURE TO COMPLY WITH THIS REQUIREMENT OR LACK OF FAMILIARIZATION WITH EXISTING INSTALLATIONS.	
D. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.	
E. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, AND PLUMBING.	
F. DO NOT SCALE FROM THE ENGINEERED DRAWINGS. REFER TO THE DIMENSIONED DRAWINGS OF THE ARCHITECT FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC.	
G. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR THE INSTALLATION OF WORK AND PAY ALL INCIDENTAL CHARGES.	
H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL TESTS NECESSARY TO PREVENT CONVEYANCE OF DEFECTIVE OR IMPROPER WORK. UPON COMPLETION OF WORK, TEST INSTALLATION THOROUGHLY AND RENDER IT FROM MALFUNCTIONS, SAFETY ISSUES, AND IMPROPER CONNECTIONS.	
I. PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION UNTIL COMPLETION OF CONSTRUCTION. REMOVE ALL EXCESS DEBRIS AND CLEAN ALL EQUIPMENT UPON COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.	
J. ALL MATERIAL SHALL BE NEW, UNDAMAGED, AND UNBLEMISHED AND UL LISTED EXACT AS NOTED.	
K. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE TIME OF OWNER ACCEPTANCE. WORK OR EQUIPMENT FOUND TO BE SUB-STANDARD OR FAULTY SHALL BE CORRECTED DURING THESE PERIODS AT NO COST TO OWNER.	
L. PROVIDE TEMPORARY SERVICE AS REQUIRED FOR CONSTRUCTION POWER AND REMOVE SUCH TEMPORARY SERVICE WHEN WORK IS COMPLETE.	
M. ELECTRICAL CONTRACTOR TO PROVIDE A COMPLETE F.A. SYSTEM TO MEET LOCAL FIRE MARSHALL REQUIREMENTS AND OBTAIN ALL LOCAL PERMITS. RELOCATE AND MATCH EXISTING FIRE ALARM EQUIPMENT AS REQUIRED.	
260519 LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	
A. ALL WIRE SHALL BE COPPER COMPLYING WITH ASTM B3 FOR BARE ANNEALED TYPE AND ASTM B8 FOR STRANDED CONDUCTORS. MINIMUM SIZE NO. 12 AWG TYPE THHN OR SIMILAR.	
B. WIRING SHALL BE LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND USE.	
C. NO WIRE SMALLER THAN #12 FEEDER WIRE SHALL BE THW OR THWN INSULATED.	
D. FIXTURE WIRE SHALL BE TYPE PF.	
E. CONDUCTOR INSULATION:	
1. TYPE NM: COMPLY WITH UL 83 AND UL 719.	
2. TYPES RHH AND RHW-2: COMPLY WITH UL 44.	
3. TYPES USE-2 AND SE: COMPLY WITH UL 854.	
4. TYPES THHN AND THWN-2: COMPLY WITH UL 83.	
5. TYPES THW AND THW-2: COMPLY WITH NEMA WC-70/ICEA S-95-658 AND UL 83.	
6. TYPE XHHW-2: COMPLY WITH UL 44.	
F. CONNECTORS: FACTORY-FABRICATED CONNECTORS, SPLICES AND LUGS OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS FOR APPLICATION AND SERVICE INDICATED. LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND USE.	
G. JACKETED CABLE CONNECTORS: FOR STEEL AND ALUMINUM JACKETED CABLES, ZINC DIE-CAST WITH SET SCREWS, DESIGNED TO CONNECT CONDUCTORS SPECIFIED IN THIS SECTION.	
H. LUGS: ONE PIECE, SEAMLESS, COPPER, DESIGNED TO TERMINATE CONDUCTORS SPECIFIED IN THIS SECTION.	
I. FEEDERS AND BRANCH CIRCUITS: SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.	
J. SERVICE ENTRANCE: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY; TYPE XHHW-2, SINGLE CONDUCTORS IN RACEWAY; TYPE USE, SINGLE CONDUCTOR IN RACEWAY; TYPE SE, MULTICONDUCTOR CABLE.	
K. EXPOSED FEEDERS: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY; TYPE XHHW-2, SINGLE CONDUCTORS IN RACEWAY; TYPE AC, ARMORED CABLE; TYPE MC, METAL-CLAD CABLE; TYPE NM, NONMETALLIC-SHEATHED CABLE.	
L. FEEDERS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY; TYPE AC, ARMORED CABLE; TYPE MC, METAL-CLAD CABLE; TYPE NM, NONMETALLIC-SHEATHED CABLE.	
M. EXPOSED BRANCH CIRCUITS: REFER TO "FEEDERS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS."	
N. BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: REFER TO "FEEDERS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS."	
O. CORD DRUMS AND PORTABLE APPLIANCE CONNECTIONS: TYPE SO, HARD SERVICE CORD WITH STAINLESS-STEEL, WIRE MESH, STRAIN RELIEF DEVICE AT TERMINATIONS TO SUIT APPLICATION.	
P. PERFORM TESTING IN ACCORDANCE WITH APPLICABLE NATIONAL ELECTRICAL TESTING ASSOCIATION STANDARDS TO ENSURE A SAFE INSTALLATION THAT OPERATES AS DESIGNED.	
260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	
A. ALL WORK SHALL BE GROUNDED TO COMPLY WITH EXCEPT WITH ALL PROVISIONS OF ARTICLE 250 OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. ALL CIRCUITS SHALL BE GROUNDED TO AN INSULATED GROUNDING CONDUCTOR. ALL RECEPTACLES SHALL HAVE AN INSULATED GREEN GROUNDING CONDUCTOR TERMINATED ON THE DEVICE GROUND SCREW.	
B. COMPLY WITH IEEE C2 GROUNDING REQUIREMENTS FOR UNDERGROUND DISTRIBUTION SYSTEM COMPONENTS.	
C. COMPLY WITH UL 467 FOR GROUNDING AND BONDING MATERIALS AND EQUIPMENT.	
D. INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.	
E. BARE COPPER CONDUCTORS:	
1. SOLID CONDUCTORS: ASTM B3.	
2. STRANDED CONDUCTORS: ASTM B8.	
3. TINNED CONDUCTORS: ASTM B33.	
4. BONDING CABLE: 28 KCMIL, 14 STRANDS OF NO. 17 AWG CONDUCTOR, 1-1/4" IN DIAMETER.	
5. BONDING CONDUCTOR: NO. 4 OR NO. 6 AWG, STRANDED CONDUCTOR.	
6. BONDING JUMPER: COPPER TAPE, BRAIDED CONDUCTORS TERMINATED WITH COPPER FERRULES: 1-5/8" WIDE AND 1/16" THICK.	
7. TINNED BONDING JUMPER: TINNED-COPPER TAPE, BRAIDED CONDUCTORS TERMINATED WITH COPPER FERRULES: 1-5/8" WIDE AND 1/16" THICK.	
E. CONNECTORS: LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING LABORATORY AND IN COMPLIANCE WITH THE FOLLOWING:	
1. BOLTED CONNECTORS (CONDUCTORS AND PIPES): COPPER OR COPPER ALLOY.	
2. WELDED CONNECTORS: EXOTHERMIC-WELDING KITS OF TYPES RECOMMENDED BY KIT MANUFACTURER FOR MATERIALS BEING JOINED AND INSTALLATION CONDITIONS.	
3. BUS-BAR CONNECTORS: MECHANICAL TYPE, CAST SILICON BRONZE, SOLDERLESS COMPRESSION TYPE WIRE TERMINALS, AND LONG-BARREL, TWO-BOLT CONNECTION TO GROUND BUS BAR.	
F. GROUNDING ELECTRODES: COPPER-CLAD STEEL RODS, 3/4" X 10'.	
G. GROUNDING AND BONDING FOR PIPING:	
1. METAL WATER SERVICE PIPE: INSTALL INSULATED COPPER GROUNDING CONDUCTORS, IN CONDUIT, FROM BUILDING'S MAIN SERVICE EQUIPMENT, OR GROUNDING BUS, TO MAIN METAL WATER SERVICE ENTRANCES TO BUILDING. CONNECT GROUNDING CONDUCTORS TO MAIN METAL WATER SERVICE PIPES; USE A BOLTED CLAMP CONNECTOR OR BOLT CONNECTOR TO A PIPE FLANGE BY USING ONE OF THE LUG BOLTS OF THE FLANGE, WHERE A DIELECTRIC MAIN WATER FITTING IS INSTALLED, CONNECT GROUNDING CONDUCTOR ON STREET SIDE OF FITTING. BOND METAL GROUNDING CONDUCTOR CONDUIT OR SLEEVE TO CONDUCTOR AT EACH END.	
2. WATER METER PIPING: USE BRASS-PIPE BONDING JUMPERS TO ELECTRICALLY BYPASS WATER METERS. CONNECT TO PIPE WITH A BOLTED CONNECTOR.	
3. BOND EACH ABOVE GROUND PORTION OF GAS PIPING SYSTEM DOWNSTREAM FROM EQUIPMENT SHUT-OFF VALVE.	
4. PERFORM TESTS AND INSPECTIONS. INSPECT PHYSICAL AND MECHANICAL CONDITION. VERIFY TIGHTNESS OF ACCESSIBLE, BOLTED, ELECTRICAL CONNECTIONS WITH A CALIBRATED TORQUE WRENCH ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.	
260529 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS	
A. STEEL SLOTTED SUPPORT SYSTEMS: COMPLY WITH MFMA-4 FACTORY-FABRICATED COMPONENTS FOR FIELD ASSEMBLY.	
B. CONDUIT AND CABLE SUPPORT DEVICES: STEEL HANGERS, CLAMPS, AND ASSOCIATED FITTINGS, DESIGNED FOR TYPES AND SIZES OF RACEWAY OR CABLE TO BE SUPPORTED.	
C. SUPPORT FOR CONDUCTORS IN VERTICAL CONDUIT: FACTORY-FABRICATED ASSEMBLY CONSISTING OF THREADED BODY AND INSULATING PLUGS FOR UNARMED CONDUCTORS. UNARMED ELECTRICAL CONDUCTORS OR CABLES IN RISER CONDUITS. PLUGS SHALL HAVE NUMBER, SIZE, AND SHAPE OF CONDUCTOR GRIPPING PIECES AS REQUIRED TO SUIT INDIVIDUAL CONDUCTORS OR CABLES SUPPORTED. BODY SHALL BE MADE OF WALLEABLE IRON.	

D.	STRUCTURAL STEEL FOR FABRICATED SUPPORTS AND RESTRAINTS: ASTM A36/A36M STEEL PLATES, SHAPES, AND BARS; BLACK AND GALVANIZED.
E.	MOUNTING, ANCHORING, AND ATTACHMENT COMPONENTS: ITEMS FOR FASTENING ELECTRICAL ITEMS OR THEIR SUPPORTS TO BUILDING SURFACES INCLUDE THE FOLLOWING: <ol style="list-style-type: none">1. POWDER-ACTUATED FASTENERS: THREADED-STEEL STUD, FOR USE IN HARDENED PORTLAND CEMENT OR CONCRETE, WITH TENSION, SHEAR, AND PULLOUT CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.2. MECHANICAL EXPANSION ANCHORS: INSERT-WEDGE-TYPE, STAINLESS STEEL, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE, WITH TENSION, SHEAR, AND PULLOUT CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.3. CONCRETE INSERTS: STEEL OR MALLEABLE IRON, SLOTTED SUPPORT SYSTEM UNITS ARE SIMILAR TO MSS TYPE 18 UNITS AND COMPLY WITH MFMA-4 OR MSS SP-58.4. CLAMPS FOR ATTACHMENT TO STEEL STRUCTURAL ELEMENTS: MSS SP-58 UNITS ARE SUITABLE FOR ATTACHED STRUCTURAL ELEMENT.5. THROUGH BOLTS: STRUCTURAL TYPE, HEX HEAD, AND HIGH STRENGTH. COMPLY WITH ASTM A325.6. TOGGLE BOLTS: STAINLESS STEEL SPRINGHEAD TYPE.7. HANGER RODS: THREADED STEEL.
F.	FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES: WELDED OR BOLTED STRUCTURAL STEEL SHAPES, SHOP OR FIELD FABRICATED TO FIT DIMENSIONS OF SUPPORTED EQUIPMENT. COMPLY WITH INDUSTRY-ACCEPTED STANDARDS FOR STEEL SHAPES AND PLATES.
260533 RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS	
A.	METAL CONDUITS, TUBING, AND FITTINGS SHALL BE LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
B.	APPLY RACEWAY PRODUCTS (MINIMUM 3/4" TRADE SIZE) AS SPECIFIED BELOW U.O.N. <ol style="list-style-type: none">1. OUTDOORS:<ol style="list-style-type: none">1.1. EXPOSED: RNC, EPC-80-PVC.1.2. CONCEALED ABOVEGROUND: EPC-80-PVC.1.3. UNDERGROUND: RNC, EPC-80-PVC, DIRECT BURIED.1.4. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC.1.5. BOXES AND ENCLOSURES, ABOVEGROUND: NEMA 250, TYPE 3R.
C.	INDOORS: <ol style="list-style-type: none">2.1. EXPOSED, NOT SUBJECT TO DAMAGE: EMT.2.2. EXPOSED, SUBJECT TO DAMAGE: GRC.2.3. CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: EMT OR MC.2.4. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
D.	IN ADDITION TO NFPA (NEC) 70 COMPLIANCE, COMPLY WITH NECA 1 AND NECA 101 FOR INSTALLATION REQUIREMENTS.
E.	SEAL ALL CONDUIT PENETRATIONS THROUGH WALLS WITH UL LISTED FIRE RETARDANT SEALANT.
F.	KEEP RACEWAYS AT LEAST 6" AWAY FROM PARALLEL RUNS OF HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING.
G.	BOXES, ENCLOSURES, AND CABINETS INSTALLED IN WET LOCATIONS SHALL BE LISTED FOR USE IN WET LOCATIONS.
H.	SHEET METAL OUTLET AND DEVICE BOXES: COMPLY WITH NEMA OS1 AND UL 514A.
I.	CAST-METAL OUTLET AND DEVICE BOXES: COMPLY WITH NEMA FB1, FERROUS ALLOY, TYPE FD, WITH GASKETED COVER.
J.	NONMETALLIC OUTLET AND DEVICE BOXES: COMPLY WITH NEMA OS2 AND UL 514C.
K.	METAL FLOOR BOXES: CAST METAL, FULLY ADJUSTABLE, LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70.
L.	NONMETALLIC FLOOR BOXES: NONADJUSTABLE, ROUND, LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70.
M.	LUMINAIRE OUTLET BOXES: NONADJUSTABLE, DESIGNED FOR ATTACHMENT OF LUMINAIRE WEIGHING 50 LB. OUTLET BOXES DESIGNED FOR ATTACHMENT OF LUMINAIRES WEIGHING MORE THAN 50 LB. SHALL BE LISTED AND MARKED FOR THE MAXIMUM ALLOWABLE WEIGHT.
N.	PADBLE FAN OUTLET BOXES: NONADJUSTABLE, DESIGNED FOR ATTACHMENT OF PADBLE FAN WEIGHING 70 LB. LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70.
O.	SMALL SHEET METAL PULL AND JUNCTION BOXES: COMPLY WITH NEMA OS1.
P.	CAST-METAL ACCESS, PULL, AND JUNCTION BOXES: COMPLY WITH NEMA FB1 AND UL 1773, GALVANIZED, CAST IRON WITH GASKETED COVER.
Q.	HINGED-COVER ENCLOSURES: COMPLY WITH UL 50 AND NEMA 250, TYPE 1 OR TYPE 3R WITH CONTINUOUS HINGE COVER WITH FLUSH LATCH U.O.N.
R.	CABINETS: <ol style="list-style-type: none">1. NEMA 250, TYPE 1 OR TYPE 3R, GALVANIZED STEEL BOX WITH REMOVABLE INTERIOR PANEL AND REMOVABLE FRONT, FINISHED INSIDE AND OUT WITH MANUFACTURER'S STANDARD ENAMEL.2. HINGED DOOR IN FRONT COVER WITH FLUSH LATCH AND CONCEALED HINGE.3. KEY LATCH TO MATCH PANELBOARDS.4. METAL BARRIERS TO SEPARATE WIRING OF DIFFERENT SYSTEMS AND VOLTAGE.5. ACCESSORY FEET WHERE REQUIRED FOR FREESTANDING EQUIPMENT.6. NONMETALLIC CABINETS SHALL BE LISTED AND LABELED AS DEFINED IN NFPA (NEC) 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
260544 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING	
A.	PROVIDE U.L. LISTED FIRESSTOP SEALING SYSTEMS AT ALL ELECTRICAL PENETRATIONS OF RATED FLOORS AND WALLS.
B.	WALL SLEEVES SHALL COMPLY WITH THE FOLLOWING: <ol style="list-style-type: none">1. STEEL PIPE SLEEVES SHALL COMPLY WITH ASTM A53/A53M, TYPE E, GRADE B, SCH. 40, ZINC COATED, PLAIN ENDS.2. CAST-IRON PIPE SLEEVES SHALL BE CAST OR FABRICATED "WALL PIPE," EQUIVALENT TO DUCTILE-IRON PRESSURE PIPE, WITH PLAIN ENDS AND INTEGRAL WATERSTOP U.O.N.
260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS	
A.	COMPLY WITH ASME A13.1, IEEE C2, NFPA (NEC) 70, 29 CFR 1910.144, 29 CFR 1910.145, ANSI Z535.4 (SAFETY SIGNS AND LABELS).
B.	ADHESIVE-ATTACHED LABELING MATERIALS, INCLUDING LABEL STOCKS, LAMINATING ADHESIVES, AND INKS USED BY LABEL PRINTERS, SHALL COMPLY WITH UL 969.
C.	ACCESSIBLE RACEWAYS AND METAL-CLAD CABLES, 600 V OR LESS, FOR SERVICE, FEEDER, AND BRANCH CIRCUITS, MORE THAN 30 A AND 120 V TO GROUND; IDENTIFY WITH SELF-ADHESIVE VINYL LABELS AT 30' MAXIMUM INTERVALS.
D.	ACCESSIBLE RACEWAYS AND CABLES WITHIN BUILDINGS: IDENTIFY THE COVERS OF EACH JUNCTION AND PULL BOX WITH SELF-ADHESIVE VINYL LABELS CONTAINING THE WORD "POWER" AND SYSTEM VOLTAGE.
E.	POWER-CIRCUIT CONDUCTOR IDENTIFICATION, 600 V OR LESS: WITHIN VAULTS, PULL AND JUNCTION BOXES, MANHOLES, AND HANDHOLES, USE COLOR-CODING CONDUCTOR TAPE TO IDENTIFY THE PHASE, USE INDUSTRY STANDARD COLORS FOR UNGROUNDED SERVICE FEEDER AND BRANCH-CIRCUIT CONDUCTORS.
F.	CONTROL-CIRCUIT CONDUCTOR IDENTIFICATION: FOR CONDUCTORS AND CABLES IN PULL AND JUNCTION BOXES, MANHOLES, AND HANDHOLES, USE WRITE-ON TAGS WITH THE CONDUCTOR OR CABLE DESIGNATION, ORIGIN, AND DESTINATION.
G.	CONTROL-CIRCUIT CONDUCTOR TERMINATION IDENTIFICATION: PROVIDE HEAT-SHRINK PREPRINTED TUBES WITH THE CONDUCTOR DESIGNATION.
H.	CONDUCTORS TO BE EXTENDED IN THE FUTURE: ATTACH WRITE-ON TAGS MARKER TAPE TO CONDUCTORS AND LIST SOURCE.
I.	AUXILIARY ELECTRICAL SYSTEMS CONDUCTOR IDENTIFICATION: IDENTIFY FIELD-INSTALLED ALARM, CONTROL, AND SIGNAL CONNECTIONS.
J.	LOCATIONS OF UNDERGROUND LINES: IDENTIFY WITH UNDERGROUND-LINE WARNING TAPE FOR POWER, LIGHTING, COMMUNICATION, CONTROL WIRING, AND OPTICAL-FIBER CABLE.
K.	WORKSPACE INDICATION: INSTALL FLOOR MARKING TAPE TO SHOW WORKING CLEARANCE IN THE DIRECTION OF ACCESS TO LUG PARTS. WORKSPACE SHALL COMPLY WITH NFPA (NEC) 70 AND 29 CFR 1926.403 U.O.N.
L.	WARNING LABELS FOR INDOOR CABINETS, BOXES, AND ENCLOSURES FOR POWER AND LIGHTING: SELF-ADHESIVE WARNING LABELS.
M.	ARC FLASH WARNING: LABELING: SELF-ADHESIVE THERMAL TRANSFER VINYL LABELS. COMPLY WITH NFPA 70E AND ANSI Z535.4.
N.	OPERATING INSTRUCTION SIGNS: INSTALL INSTRUCTION SIGNS TO FACILITATE PROPER OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS AND ITEMS TO WHICH THEY CONNECT.
O.	EMERGENCY OPERATING INSTRUCTION SIGNS: INSTALL INSTRUCTION SIGNS WITH WHITE LEGEND ON A RED BACKGROUND WITH MINIMUM 3/8" HIGH LETTERS FOR EMERGENCY INSTRUCTIONS AT EQUIPMENT USED FOR POWER TRANSFER AND/OR STORAGE.
P.	EQUIPMENT IDENTIFICATION LABELING: FOR EACH UNIT OF EQUIPMENT, INSTALL A UNIQUE DESIGNATION LABEL THAT IS CONSISTENT WITH WIRING DIAGRAMS, SCHEDULES, AND OPERATION AND MAINTENANCE MANUAL.
260923 LIGHTING CONTROL DEVICES	
A.	OCCUPANCY SENSOR SIMILAR TO ACUTY SENSOR SWITCH CM10-PDT CEILING MOUNT (DUAL TECHNOLOGY), POWER PACK PP20 AND SPD0M (3X-MULTI-WAY) MANUAL WALL SWITCH.
B.	OCCUPANCY SENSOR SIMILAR TO ACUTY SENSOR SWITCH WSX-PDT (DUAL TECHNOLOGY) WALL MOUNT WITH MANUAL OVERRIDE SWITCH.
C.	AREAS WITHOUT OCCUPANCY SENSORS SHALL BE ON TIME-SENSITIVE CONTROL (LIGHTING CONTROL PANEL) WITH LIGHTING REDUCTION CONTROLS (DUAL SWITCHING).



Project Number	21007
Date	01/22/21
Drawn By	DS
Checked By	SEH/BBB
E111	
Scale	

TYPICAL MOUNTING HEIGHTS		
THE CONTRACTOR SHALL COORDINATE THE MOUNTING HEIGHTS OF ALL FIXTURES, DEVICES, AND OUTLETS WITH ARCHITECTURAL PLANS AND ELEVATIONS. SPECIAL MOUNTING HEIGHTS ARE SHOWN ON THE PLANS. SHALL TAKE PRECEDENCE OVER THOSE GIVEN BELOW. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, UNLESS NOTED OTHERWISE.		
LIGHT FIXTURES, INTERIOR	WALL MOUNTED, SCONCE	6"-6"
	WALL MOUNTED, ABOVE MIRROR	0'-8" ABOVE TOP OF COUNTER
	WALL MOUNTED, ABOVE DOOR	CENTER BETWEEN FRAME & CEILING
	WALL MOUNTED, ABOVE STAIR LANDING IN SOFFIT	7'-0" (SEE ARCH DETAIL)
LIGHT FIXTURES, EXTERIOR	WALL MOUNTED, BESIDE DOOR	6'-0" (SEE ARCH DETAIL)
	STEP MOUNTED	6'-0" (SEE ARCH DETAIL)
	WALL MOUNTED, NEAR GRADE	6'-0" (SEE ARCH DETAIL)
	WALL MOUNTED, NEAR ROOF	2'-6" BELOW PARAPET
SWITCHES	WALL SWITCHES AND DIMMERS	3'-10"
	MANUAL MOTOR STARTERS	3'-10"
RECEPTACLES	WALL	1'-6"
	ABOVE COUNTER WITHOUT BACKSPASH	0'-8" ABOVE TOP OF COUNTER
	ABOVE COUNTER WITH BACKSPASH	0'-4" ABOVE TOP OF BACKSPASH
	WALL HUNG SINKS (GFCI)	3'-6"
	CLOCK	1'-0" BELOW CEILING
TELEPHONE	DESK/TABLE	1'-6"
	WALL TELEPHONE	3'-10"
	ABOVE COUNTER WITHOUT BACKSPASH	0'-8" ABOVE TOP OF COUNTER
DATA	ABOVE COUNTER WITH BACKSPASH	0'-4" ABOVE TOP OF BACKSPASH
	WALL	1'-6"
ELECTRICAL EQUIPMENT	ABOVE COUNTER WITHOUT BACKSPASH	0'-8" ABOVE TOP OF COUNTER
	ABOVE COUNTER WITH BACKSPASH	0'-4" ABOVE TOP OF BACKSPASH
	SAFETY SWITCH	6'-6" TO TOP OF ENCLOSURE
	MOTOR STARTER	6'-6" TO TOP OF ENCLOSURE
	PANEL BOARD	6'-6" TO TOP OF ENCLOSURE
	COMMUNICATIONS CABINET	6'-6" TO TOP OF ENCLOSURE

MCB AMPS 150										(N) PANEL L5										A/C RATING: 22,000					
AMP BUS RATING: 150										NEMA 1														NOTES	
VOLTS 120/208																								1. BALANCE ALL LOADS	
PHASE 3 WIRE 4																								2. LABEL ALL CIRCUITS	
CIRCUIT DESCRIPTION		*	WATT LOAD	WIRE	BRKR	CIRCUIT NUMBER				BRKR	WIRE	WATT LOAD	* CIRCUIT DESCRIPTION												
3 PC	4	540	#12	20/1	1	540			A	360		2	20/1	#12	360	4	2 DUPLEX								
4 DUPLEX	4	720	#12	20/1	3		720		B		720		4	20/1	#12	720	4	4 DUPLEX							
SECURITY DOORS	1	500	#12	20/1	5				500	C		500	6	20/1	#12	500	1	WATER FOUNTAIN							
LIGHTING	2	310	#12	20/1	7	310			A	2899		8		#8	2899	2	1								
MOTORIZED DAMPER	1	250	#12	20/1	9		250		B		2899		10	40/3	#8	2899	2	1	FCU-1						
PRINTER	1	1000	#12	20/1	11			1000	C		2899		12		#8	2899	2	1							
2 DUPLEX	4	720	#12	20/1	13	720			A	540		14	20/1	#12	540	4	3	DUPLEX							
SPACE	0				15	0			B		0	16				0		SPACE							
SPACE	0				17	0			C		0	18				0		SPACE							
SPACE	0				19	0			A		0	20				0		SPACE							
SPACE	0				21	0			B		0	22				0		SPACE							
SPACE	0				23	0			C		0	24				0		SPACE							
SPACE	0				25	0			A		0	26				0		SPACE							
SPACE	0				27	0			B		0	28				0		SPACE							
SPACE	0				29	0			C		0	30				0		SPACE							
SPACE	0				31	0			A		0	32				0		SPACE							
SPACE	0				33	0			B		0	34				0		SPACE							
SPACE	0				35	0			C		0	36				0		SPACE							
SPACE	0				37	0			A		0	38				0		SPACE							
SPACE	0				39	0			B		0	40				0		SPACE							
SPACE	0				41	0			C		0	42				0		SPACE							
CONNECTED																		DEMAND							
NON-CONTINUOUS *1		10948		100%		10948																			
CONTINUOUS *2		310		125%		388																			
KITCHEN EQUIPMENT *3		0		65%		0																			
RECEPTACLE *4		3600		NEC 220.44		3600																			
TOTAL																									
LOAD (VA)		A PH (AMP)		B PH (AMP)		C PH (AMP)																			
14935		45.389		38.243		40.83																			

MCB AMPS 1600 (SERVICE DISCONNECT)										(E) PANEL MSB										A/C RATING: 65,000 (EXISTING)							
AMP BUS RATING: 1600										NEMA 1														NOTES			
VOLTS 277/480																								1. BALANCE ALL LOADS			
PHASE 3 WIRE 4																								2. LABEL ALL CIRCUITS			
CIRCUIT DESCRIPTION		*	WATT LOAD	WIRE	BRKR	CIRCUIT NUMBER						BRKR	WIRE	WATT LOAD	*	CIRCUIT DESCRIPTION											
SUBFEED PANEL L5			5446.7	#4		1	5447	A	0			2		0		SPACE											
			4589.2	#4	70/3	3	4589	B	0			4		0		SPACE											
			4899.2	#4		5		4899	C			0	6		0		SPACE										
SPARE		0			7	0		A	8310			8		8310	1												
		0		70/3	9	0		B	8310		10	70/3		8310	1	EXISTING LOAD											
		0			11		0	C		8310		12		8310	1												
SPARE		0			13	0		A	13850			14		13850	1												
		0		225/3	15	0		B	13850		16	100/3		13850	1	EXISTING LOAD											
		0			17		0	C		13850		18		13850	1												
SPARE		0			19	0		A	0			20		0		NO SPACE											
		0		250/3	21		0	B	0		22			0		NO SPACE											
		0			23			C	0		24			0		NO SPACE											
SPARE		0			25	0		A	27700			26		27700	1												
		0		250/3	27		0	B	27700		28	250/3		27700	1	EXISTING LOAD											
		0			29			C		27700		30		27700	1												
SPARE		0			31	0		A	41550			32		41550	1												
		0		400/3	33		0	B	41550		34	400/3		41550	1	EXISTING LOAD											
		0			35			C		41550		36		41550	1												
EXISTING LOAD	1	41550			37	41550		A	41550			38		41550	1												
	1	41550		400/3	39		41550	B	41550		40	400/3		41550	1	EXISTING LOAD											
	1	41550			41			C		41550		42		41550	1												
EXISTING LOAD	1	69250			43	69250		A	0			44		0		NO SPACE											
	1	69250		600/3	45		69250	B	0		46		0		NO SPACE												
	1	69250			47		69250	C	0		48		0		NO SPACE												
EXISTING LOAD	1	69250			49	69250		A	0			50		0		NO SPACE											
	1	69250		600/3	51		69250	B	0		52		0		NO SPACE												
	1	69250			53			C	0		54		0		NO SPACE												
<div><div>CONNECTED</div><div>DEMAND</div><div><div>NON-CONTINUOUS *1</div><div>CONTINUOUS *2</div><div>KITCHEN EQUIPMENT *3</div><div>RECEPTACLE *4</div><div>NEC 220.44</div><div>100%</div><div>125%</div><div>65%</div></div><div><div>949978</div><div>388</div><div>0</div><div>3600</div></div></div>																											
TOTAL		LOAD (VA)	A PH (AMP)	B PH (AMP)	C PH (AMP)																						
		953985	1149.7	1146.6	1148																						

LOAD ANALYSIS MSB					
Code Reference	Lighting	Greater			
per NEC Table 220.12	per NEC	20305x1 x 3	3000	=	3000
	actual		388	omit	
per NEC 220.60/220.51	HVAC	at 100%		=	8697.6
	Equipment	at 100%		=	2250
per NEC 220.88	Water Heater	at 100%		=	0
per NEC 220.14(f)	Kitchen Equipm	at 65%		=	0
per Table 220.44	Receptacles	180 x 14 =	3600	=	3600
	Recept Demand Factor	10,000		=	0
		50% Remainder		=	0
	*Existing Load	at 125%	933000	=	1166250
per NEC 220.14(f)	Sign		1200	=	1200
per NEC 430.24	25% Motor	largest 5hp		=	933
		total		=	1185831
*EXISTING PEAK KVA					
CONFIRMED WITH CENTERPOINT ENERGY					
<div> <div>At</div> <div>V</div> <div>480</div> <div>Phase</div> <div>3</div> <div>=</div> <div>Amps</div> <div>1428</div> </div>					
SERVICE SIZE 1600 AMPS					

LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER	MODEL	VOLTS	FIXTURE WATTAGE	DESCRIPTION	NOTES
A	LITHONIA	EPANL 24 4800LMHE 80CRI 40K MVOLT	120	31	LED 2X4 FIXTURE	1,3,4
AE	LITHONIA	EPANL 24 4800LMHE 80CRI 40K MVOLT	120	31	LED 2X4 FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP	1,2,3,4
B	LITHONIA	CLX L48 4000LM HEF 120 40K 80CRI	120	24.75	LED 4' LINEAR	1,3,4
X	LITHONIA	LQC	120	5	LED EXIT SIGN W/ 90 MIN. EMERGENCY BATTERY BACKUP	1,2,3,4
X1	LITHONIA	ELM6L UVOLT	120	10.6	LED EGRESS FIXTURE W/ 90 MIN. EMERGENCY BATTERY BACKUP	1,2,3,4
EX	EXISTING TO REMAIN				EXISTING TO REMAIN	
NOTES						
1. OWNER TO SELECT FIXTURE BASED ON LAMP QUANTITY AND WATTAGE PROVIDED.						
2. BATTERY BACKUP TO BE INSTALLED IN FIXTURE. BATTERY BACK-UP MUST MEET OR EXCEED LUMENS SPECIFIED.						
3. COORDINATE WITH CEILING TYPE.						
4. CONFIRM FIXTURE COLOR AND STYLE WITH ARCHITECT PRIOR TO ORDERING.						

⊗

3 PHASE COPPER FEEDER SCHEDULE

NUMBER	CONDUCTORS	COND	W/O NEUTRAL	NUMBER	CONDUCTORS	COND	W/O NEUTRAL
02	4#12, 1#12 GND	3/4"	3/4"	38	4#500 KCMIL, 1#3 GND	3 1/2"	3"
03	4#10, 1#10 GND	3/4"	3/4"	42	4#600 KCMIL, 1#2 GND	4"	3 1/2"
05	4#8, 1#10 GND	1"	3/4"	46	(2 SETS) 4#4/0, 1#2 GND	2 1/2"	2"
06	4#6, 1#8 GND	1 1/4"	1"	51	(2 SETS) 4#250 KCMIL, 1#2 GND	3"	2 1/2"
08	4#4, 1#8 GND	1 1/4"	1 1/4"	62	(2 SETS) 4#350 KCMIL, 1#1 GND	3"	3"
10	4#3, 1#8 GND	1 1/4"	1 1/4"	76	(2 SETS) 4#500 KCMIL, 1#1/0 GND	3 1/2"	3 1/2"
11	4#2, 1#6 GND	1 1/2"	1 1/4"	85	(3 SETS) 4#300 KCMIL, 1#1/0 GND	3 1/2"	3"
13	4#1, 1#6 GND	2"	1 1/2"	93	(3 SETS) 4#350 KCMIL, 1#2/0 GND	3"	3"
15	4#1/0, 1#6 GND	2"	1 1/2"	100	(3 SETS) 4#400 KCMIL, 1#2/0 GND	3 1/2"	3"
17	4#2/0, 1#6 GND	2"	2"	126	(3 SETS) 4#600 KCMIL, 1#3/0 GND	4"	3 1/2"
20	4#3/0, 1#6 GND	2 1/2"	2"	138	(3 SETS) 4#700 KCMIL, 1#3/0 GND	5"	4"
23	4#4/0, 1#4 GND	2 1/2"	2"	168	(4 SETS) 4#600 KCMIL, 1#4/0 GND	4"	3 1/2"
25	4#250 KCMIL, 1#4 GND	3"	2 1/2"	210	(5 SETS) 4#600 KCMIL, 1#250 KCMIL GND	4"	3 1/2"
28	4#300 KCMIL, 1#4 GND	3"	2 1/2"	20w	3#3/0, 1#6 GND	3"	3"
31	4#350 KCMIL, 1#3 GND	3"	3"	30w	3#250 KCMIL, 1#2 GND	3"	3"
33	4#400 KCMIL, 1#3 GND	3"	3"	40w	(2 SETS) 3#3/0, 1#6 GND	3"	3"

NOTES

1. WHERE THE FEEDER SYMBOL IS SHOWN WITH SUBSCRIPT

MV = MEDIUM VOLTAGE COPPER CONDUCTOR

N = NO NEUTRAL CONDUCTOR

G = NO EQUIPMENT GROUNDING CONDUCTOR

E = EXISTING TO REMAIN

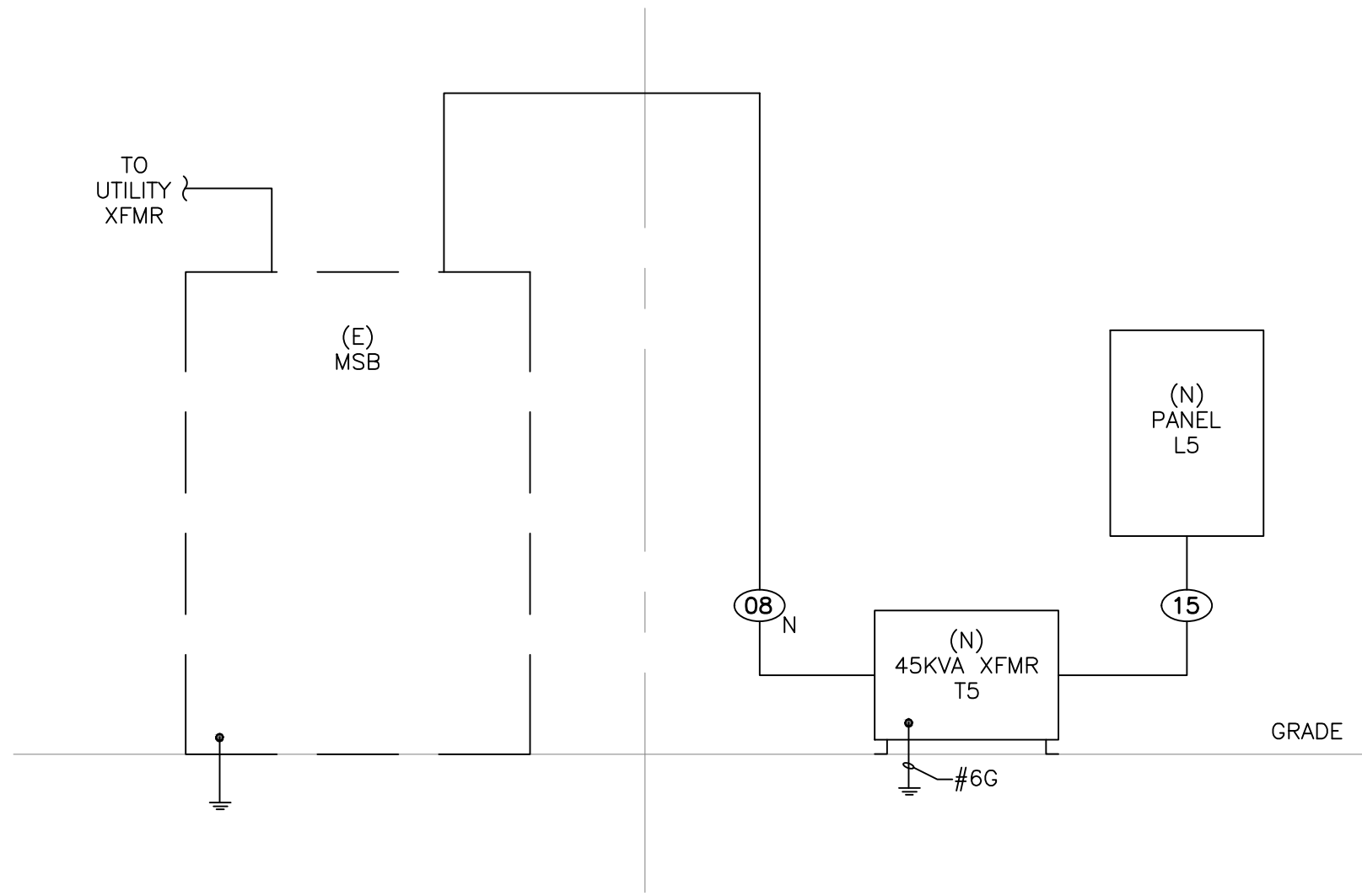
2. 5KV MEDIUM VOLTAGE CABLE CALCULATED IN SCHEDULE 40 PVC. ALL OTHERS IN RMC.

3. ALL CONDUIT CALCULATIONS BASED ON THHN COPPER CONDUCTORS.

4. AMPACITIES BASED ON 75°C TEMPERATURE RATING OF CONDUCTORS.

NOTE: AT TIME OF INSTALLATION, PROVIDE PERMANENTLY AFFIXED LABEL WITH DATE, FAULT CURRENT, AND CALCULATION. THE LABEL SHALL BE 2"x3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND.

ALL GROUNDING AND BONDING AS PER NEC, ART 250



1 ELECTRICAL RISER DIAGRAM
NO SCALE



