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11 Greenway Plaza Suite 2210 Houston, Texas 77046-1104 Telephone: 713/965-0608 Fax: 713/961-4571

ADDENDUM NO. 01 January 9, 2025

To Drawings and Specifications dated December 18, 2024.

HUMBLE HIGH SCHOOL ADDITIONS AND RENOVATIONS – PHASE TWO FOR HUMBLE I.S.D.

Prepared by: PBK

11 Greenway Plaza, 22nd Floor Houston, TX 77046-1104 PBK Project No: 220537

Notice to Bidders

- A. Receipt of this Addendum shall be acknowledged on the Bid Form.
- B. This Addendum forms part of the Contract documents for the above referenced project and shall be incorporated integrally therewith.
- C. Each bidder shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.

GENERAL

Item No. 1	See the attached Pre-proposal Conference agenda and sign-in sheets.
Item No. 2	See the attached Humble ISD 2024-2025 academic calendar.
Item No. 3	The last day for bidders to submit questions has been revised to Monday, January 13, 2025, at 4:00 PM. (All questions <u>must</u> be submitted through lonWave only.)
Item No. 4	Note that the "Humble ISD Certificate of Interested Parties – Form 1295 – Instructions" has been revised and re-uploaded to IonWave.

SPECIFICATIONS

- Item No. 5 Section 00 11 00: Request for Competitive Sealed Proposals: Revise the last day to submit guestions to "Monday, January 13, 2025, @ 4:00 PM".
- Item No. 6 Section 00 21 16: Instructions to Offerors: Replace section in its entirety.
- Item No. 7 Section 01 23 00: Alternates: Revise Alternate No. 9 as follows:
 - 1. This Alternate shall establish the amount to be added to the Base Proposal for the cost of furnishing and installing High Capacity Packaged, Outdoor, Central Station Air Handling Units, manufactured by <u>Trane Horizon Model</u>. As shown and scheduled on the drawings and as specified. This alternate shall include the pricing for all materials and labor for proper completion. Refer to specs and drawings for additional information. The pricing for all units identified in the drawings as "High Capacity Packaged, Outdoor, Central Station Air Handling Units" shall not be included in the base bid.
- Item No. 8 Section 11 30 00: Submersible Wastewater Pumps for Duplex Wet Well Installation: Add section in its entirety.

DRAWINGS

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Item No. 9
                  Sheet G-001: Replace sheet in its entirely.
Item No. 10
                  Sheet G-060: Replace sheet in its entirely.
Item No. 11
                  Sheet G-061: Replace sheet in its entirely.
Item No. 12
                  Sheet AD101F: Replace sheet in its entirely.
Item No. 13
                  Sheet AD102A: Replace sheet in its entirely.
Item No. 14
                  Sheet AD102B: Replace sheet in its entirely.
Item No. 15
                  Sheet AD102F: Add sheet in its entirely.
Item No. 16
                  Sheet C 300: Replace sheet in its entirely.
Item No. 17
                  Sheet C 302: Replace sheet in its entirely.
Item No. 18
                  Sheet C 403: Replace sheet in its entirely.
Item No. 19
                  Sheet A-101A.1: Replace sheet in its entirely.
Item No. 20
                  Sheet A-101B.1: Replace sheet in its entirely.
Item No. 21
                  Sheet A-101C.1: Replace sheet in its entirely.
Item No. 22
                  Sheet A-101D.1: Replace sheet in its entirely.
Item No. 23
                  Sheet A-101E.1: Replace sheet in its entirely.
Item No. 24
                  Sheet A-101F.1: Replace sheet in its entirely.
Item No. 25
                  Sheet A-101G.1: Replace sheet in its entirely.
Item No. 26
                  Sheet A-101G.2: Replace sheet in its entirely.
Item No. 27
                  Sheet A-101H.1: Replace sheet in its entirely.
Item No. 28
                  Sheet A-101M.1: Replace sheet in its entirely.
Item No. 29
                  Sheet A-101N.1: Replace sheet in its entirely.
Item No. 30
                  Sheet A-101P.1: Replace sheet in its entirely.
Item No. 31
                  Sheet A-102A.1: Replace sheet in its entirely.
Item No. 32
                  Sheet A-102B.1: Replace sheet in its entirely.
Item No. 33
                  Sheet A-102F.1: Replace sheet in its entirely.
Item No. 34
                  Sheet A-102G.1: Replace sheet in its entirely.
Item No. 35
                  Sheet A-102G.2: Replace sheet in its entirely.
Item No. 36
                  Sheet A-102N.1: Replace sheet in its entirely.
Item No. 37
                  Sheet A-202AXXX: Omit sheet in its entirety.
Item No. 38
                  Sheet M-502: The schedule "High Capacity Outside Air Packaged, Outdoor, Central-Station Air-
                  Handling Units" is to be priced for Alternate 9 only.
Item No. 39
                  Sheet ES-101: Replace sheet in its entirely.
Item No. 40
                  Sheet E-702: Replace sheet in its entirely.
                  Sheet PU-101B: Replace sheet in its entirely.
Item No. 41
Item No. 42
                  Sheet TN-101P.2: Add sheet in its entirely.
Item No. 43
                  Sheet TN-102A.1: Add sheet in its entirely.
Item No. 44
                  Sheet TN-102B.1: Add sheet in its entirely.
Item No. 45
                  Sheet TN-102F.2: Add sheet in its entirely.
Item No. 46
                  Sheet TN-102G.1: Add sheet in its entirely.
Item No. 47
                  Sheet TN-102N.1: Add sheet in its entirely.
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QUESTIONS

It seems plan sheets C 000, TFD101G.1, TFD102G.1, TN-101A.2, TN-101B.2, TN-101C.2, TN-101D.2, TN-101F.2, TN-101M.2, TN-101N.2 TN-101P.2, TN-102A.1, TN-102B.1 TN-102B.2, TN-102C.1, TN-102D.1, TN-102F.1, TN-102F.2, TN-102G.7, TN-102G.1, TN-102N.1, TN-102N.2, TND101G.1, and TND102G.1 are missing. Please advise. Answer: Refer to the revised index sheet G-001 included in this addendum.

At the start of the hardware sets there is a heading stating "Hardware Sets based on plans dated 3-6-2024 - Issued for Proposal". The plan sheets that are in the link provided are dated 12-18-2024 Issue for Proposal. For bidding, should I use these hardware sets with the heading based on IFP 3-6-24? If so, are these the Base Only sets? It looks like the same Hardware Set number is used for Base and Alternates, which is not matching up. The Table of Contents list 087100 Door Hardware and 087100 Door Hardware – Alternate. Should there be two sections of Hardware Sets? Answer: This question will be answered in a future addendum.

- I've reviewed the drawings for Humble High School Add and Reno Phase 2 and found the window detail that references roller shades, but did not see any references anywhere else. Do you want us to price roller shades for this project, and if so, would you mind helping me with the locations? Answer: Provide the specified window shades at all openings called to have "motorized sunshades" in the window/storefront schedules.
- Item No. 51 The plumbing demo drawings (please reference PD101A) show to demolish the fixtures and the carriers where as the architectural demo drawings show to pull the fixtures and reinstall. Please clarify which is correct. Answer: This question will be answered in a future addendum.
- I saw no OHDs here but there is a spec for folding gates When I look in the plans I see the below in area H can you confirm they want one large side folding gate to cover this +/- 90' wide space? Answer: This question will be answered in a future addendum.
- Please consider extending the cut off date for questions past this Friday. We have not received one addenda on this project and I am concerned there will be questions after an addenda. Could it be extended out to the 20th? That would give the architect 3 days to respond. Thank you for considering. Answer: The deadline for questions has been extended by this addendum.
- Item No. 54 Please provide an asbestos report for the renovation portion of this work? If there is not one, will the owner be doing an asbestos survey to see if there is asbestos Or could you please provide an allowance line for asbestos removal so that everyone has the same information? Answer: This question will be answered in a future addendum.

Attachments include 60 additional sheets and ends with drawing TN-102N.1 dated 01/9/25.







HUMBLE HIGH SCHOOL ADDITIONS AND RENOVATIONS PHASE 2

Humble Independent School District

PBK Project Number: 220537

PRE-PROPOSAL MEETING

AGENDA

Tuesday, January 07, 2025 at 10:00 A.M.

Introduction of Personnel I.

A.	NO	NER: Humble ISD	Phone: 281.641.8700			
	01	Dr. Jason Seybert	Associate Superintendent for Operational Support Services			
	02	Thomas Haggerty	Executive Director of Facilities Planning and Construction			
	03	Seth Hawkins				
	04	Michelle Collier	Construction Buyer – 281.641.8988			
B.	ARC	HITECT: PBK Architects, Inc	Phone: 713.965.0608			
	01	Gregory Prince				
	02	Robert Mohler	Project Manager			
C.	MEP	: LEAF Engineers	Phone: 713.965.0608			
	01	Don Richards	Project Manager			
D.	Struc	ctural: Kubala Engineers	Phone: 800.248.3674			
	01	John Kubala	President			
E.	CIVII	L: DIG ENGINEERS	Phone: 713.965.0608			
	01	Trace Cryer				
	02	Ashly Wagner	Project Manager			
F.	ENV	ELOPE CONSULTANTS: BEAM PROF	ESSIONALS Phone: 713.965.0608			
	01	Jason Benoit	Sr. Project Manager			

II. **Proposal Date:** Thursday, January 23, 2025 Base Proposal at 2:00 PM **Proposal Time:**

Alternate Proposal at 3:00 PM

Proposal Location: Humble ISD - Maintenance and Construction Facility

> 1703 Wilson Road, Bldg B Humble, Texas 77396

III. Changes: Any changes arising out of questions requiring interpretation, clarification or correction to the

Proposal Documents will be made by Addendum.

Pre-Proposal Meeting Agenda - Page 1 of 3



IV. Instructions to Offerors (Section 00 21 16)

- A. AIA 305 Submittal and References must be submitted with proposal on the District's online bidding system by **Thursday**, **January 23** @ **2:00 PM**.
- B. Substitutions of Materials and Equipment by Friday, January 10, 2025 at 4:00 PM.
- C. All proposals are to be submitted electronically via IONWAVE.
- D. Determination of Successful Respondent and Award of Contract: Section 1.24 of Section 00 21 16.
- E. Last day to submit questions is Friday, January 10, 2025 at 4:00 PM.
- F. Post Proposal Information
 - 1. The awarded contractor shall submit the items described within Section 00 21 16, Section 1.11 within five (5) days after the purchase order.

V. Proposal Forms to be filled out, uploaded or acknowledged in IonWave

Base Proposal Form
Proposal Bond
Felony Conviction Notification
Affidavit of Non-Discriminatory Employment
List of Subcontractors
Affidavit of Non-Asbestos, Lead, and PCB Use in Project
Certification of Criminal History Record
Proposal Evaluation Waiver

VI. Summary of Work (Section 01 10 00)

A. All The Work of Project is defined by the Contract Documents and consists of the following: Building addition to the existing Humble High School; miscellaneous renovations inside the existing building; and associated site improvements on campus. The building additions are fully sprinkled one- and two-story buildings (with spread footings, slab-on-grade, steel frame, and masonry cavity walls) which will include an auxiliary gym, locker rooms, classrooms, and athletics offices. Renovations inside the existing building consist of select demolition inside the classroom wing to be renovated into new science labs. On-site improvements and site amenities include paved parking areas, driveways, walkways, utilities, and lighting.

VII. Allowances (Section 01 21 00)

A.	Owner's Contingency Allowance	\$1,500,000.00
B.	First Responder Antenna System Allowance	
C.	Super Graphics Allowance	\$80,000.00

VIII. Miscellaneous Job Conditions

- A. Utilities
- B. Field Office
- C. Sanitary Facilities
- D. Storage Facilities
- E. Signs
- F. Barriers
- G. Cleaning
- H. Temporary First Aid
- I. Temporary Fire Protection
- J. Construction Aids (scaffolds, staging, ladders, etc.)
- K. Construction Fence
- L. Badging

Pre-Proposal Meeting Agenda – Page 2 of 3



IX. Additional Items

- A. Permit Status
- B. Owner-provided Items
- C. 01 77 00 Close-Out Checklist
- D. 01 77 00 Substantial Completion Checklist

X. Construction Schedule

A. The Bidding Contractor to provide the construction schedule in the bid on the proposal form.

XI. Questions



SIGN-IN SHEET

Project Name: HUMBLE HIGH SCHO	OOL ADDITIONS and RENOVATIONS - PHASE TWO
Project No.: CSP# 2025-09	
Meeting: PRE-BID MEETING	Meeting Date: JANUARY 07, 2025 Meeting Time: 10:00 AM
	ntity who contracts or seeks to contract Humble Independent School District for the sale or
	vell as agents of such persons) (hereafter referred to as Vendors) are required to file a
	rict. Each covered person or entity who seeks to or who contracts with Humble complying with any applicable disclosure requirements. ***
Independent Ochool District is responsible for	complying with any applicable disclosure requirements.
***Signing this Document confirms you have r	ead, understand, and comply with Section 176.006 Disclosure Statement Requirements
noted below. Form CIQ is in this proposal page	ckage and MUST be in your submitted proposal.
T	
The Local Government Officers of the Humble	EINdependent School District are: Term expires 2025; Position 2 Robert Scarfo - Term expires 2027; Position 3 Chris Parker
	er – Term expires 2025; Position 5 Martina Lemond-Dixon – Term expires 2025; Position 6
	on 7 Michael Grabowski Term expires 2027; Acting Superintendent Roger Brown
	pany PRIME CENTRACTORS Email _ contractors inc. com
Name PHILLIP CANO Comp	
Name Marlon Monterros Comp	pany ICI Construction Email bids exciconstructioninc.com
Name Luis flores Comp	pany Restoration Services Email Luis, Flores proitx, com.
Name James Whitton Comp	pany First out Sevices Email JWhitten & First out Services, 100
Name Brandon Watron Comp	pany Pivision One Const. Email bid@d1construction.com
Name Brack RHOOKS Comp	Dany SATTERFIELD Email BRHODES @ SAFPON. COM
Name Jusan Dzanski Comp	pany Pref-Tech Email Jasondzanski @ pref-tech.com
Name Pedro lopez Comp	pany The Environmental Email pedrocotyteincorg
Name Jemy FieldsComp	pany TRT Formental Email jerry & trteine org
NameComp	panyEmail



SIGN-IN SHEET

Project Name: HUMBLE HIGH SCHOOL ADDITIONS and RENOVATIONS - PHASE TWO
Project No.: CSP# 2025-09
Meeting: PRE-BID MEETING Meeting Date: JANUARY 07, 2025 Meeting Time: 10:00 AM
**Effective January 1, 2006, any person or entity who contracts or seeks to contract Humble Independent School District for the sale or
urchase of property, goods, or services (as well as agents of such persons) (hereafter referred to as Vendors) are required to file a
Conflict of Interest Questionnaire with the District. Each covered person or entity who seeks to or who contracts with Humble
ndependent School District is responsible for complying with any applicable disclosure requirements. ***
**Signing this Document confirms you have read, understand, and comply with Section 176.006 Disclosure Statement Requirements
noted below. Form CIQ is in this proposal package and MUST be in your submitted proposal.
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Term expires 2025; Position 4 Ken Kirchhofer - Term expires 2025; Position 5 Martina Lemond-Dixon - Term expires 2025; Position 6
Marques Holmes – Term expires 2027; Position 7 Michael Grabowski – Term expires 2027; Acting Superintendent Roger Brown
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Name Justin Gonzalez Company F-Tech Communications Email Justin Jonzalez Detech-TX. Com
Name Bryce Christenson Company Grant Markay Demo Email demograp Quant Mackayco, com
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SIGN-IN SHEET

Project Name: HUMBLE HIGH SCHOOL ADDITIONS and RENOVATIONS - PHASE TWO							
Project No.: <u>CSP# 2025-09</u>							
Meeting: PRE-RID MEETING	Meeting Date: JANUARY 07, 2025, Meeting Time: 10:00 AM						

***Effective January 1, 2006, any person or entity who contracts or seeks to contract Humble Independent School District for the sale or purchase of property, goods, or services (as well as agents of such persons) (hereafter referred to as Vendors) are required to file a Conflict of Interest Questionnaire with the District. Each covered person or entity who seeks to or who contracts with Humble Independent School District is responsible for complying with any applicable disclosure requirements. ***

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ATTENDEES:

						or the
Name	Michelle Collier	Company	Humble ISD	Email	linda.collier2@humbleisd.net	Initials
Name	Thomas Haggerty	Company	Humble ISD	Email	txhagger@humbleisd.net	Initials /
Name	Seth Hawkins	Company	Humble ISD	Email	shawkins@humbleisd.net	Initials
Name	Becky Rangel	Company	Humble ISD	Email	brangel@humbleisd.net	Initials (19)
Name	Jason Seybert	Company	Humble ISD	Email	jseyber@humbleisd.net	Initials
Name	Robert Mohler	Company	PBK Architects	Email	robert.mohler@pbk.com	Initials <u>RM</u>
Name	Gregory Prince	Company	PBK Architects	Email	gregory.prince@pbk.com	Initials
Name	Gregory Willeox	Company	PBK Architects	Email	gregory.willock@pbk.com	Initials <u>GW</u>
Name	eCompany				Email	
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Humble ISD 2024-2025 Calendar 🦟



JULY 2024

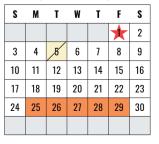
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OCTOBER 2024



AUGUST 2024

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JULY 2024

1-3	Summer Hours
4	July 4th Holiday
8-11	Summer Hours
15-18	Summer Hours
30-31	Staff Workdays

AUGUST 2024

1-2	Staff Workdays
5-6	Staff Workdays
7	First Day of School
9, 16, 23, 30	.SECHS Early Release
15, 22, 29MS	S and HS Late Arrival*

SEPTEMBER 2024

2	Labor Day	Holiday
6, 13, 20, 27	SECHS Early	Release
12, 19, 26MS	and HS Late	Arrival*
16	Elementary	Holiday

OCTOBER 2024

3, 17, 24,	31MS and HS Late Arrival
4	End of 1st 9 Week
4, 18, 25	SECHS Early Release
7-11	Student/Teacher Brea
14	Begin 2nd 9 Week

NOVEMBER 2024

1	Elementary Holiday
1, 8, 15, 22	SECHS Early Release
5	Staff Workday
14, 21	MS and HS Late Arrival*
25-29	Thanksgiving Holiday

	Elementary Holiday
, 8, 15, 22	SECHS Early Release
	Staff Workday
4, 21	MS and HS Late Arrival*
5-29	Thanksgiving Holiday

DECEMBER 2024

5, 12	MS and HS Late Arrival
6, 13, 20	SECHS Early Releas
19	Early Release for MS, H
20	Early Release for All School.
20	End of 2nd 9 Week
23-31	Winter Break Holida

JANUARY 2025

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FEBRUARY 2025

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MARCH 2025

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JUNE 2025							

JANUARY 2025

1-3Winter Break Holiday
6Staff Workday
7Begin Spring Semester/ 3rd 9 Weeks
10, 17, 24, 31SECHS Early Release
16, 30MS and HS Late Arrival*
20MLK Day Holiday

FEBRUARY 2025

7, 21, 28SECHS Early Release
10-11All Student Holiday/Staff
Workday/ District Comp Days
12-14Student/Teacher Break
17Elementary Holiday/Staff Workda
20 27 MS and HS Late Arrival*

APRIL 2025

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MARCH 2025

6, 20, 27	MS and HS Late Arrival
7, 21, 28	SECHS Early Release
7	End 3rd 9 Weeks
10-14	Spring Break Holiday
17Element	ary Holiday/Staff Workday
17	Regin 4th 9 Weeks

APRIL 2025

3	MS and HS Late Arrival*
4, 11, 25	SECHS Early Release
18	Good Friday Holiday

MAY 2025

2, 9, 16,	23SECHS Early Release
8	MS and HS Late Arrival*
26	Memorial Day Holiday
28	Early Release for MS, HS
29	Early Release for All Students
29	Last Day of School
30	Staff Workday

JUNE 2025

2-5	Summer Hours
9-12	Summer Hours
16-19	Summer Hours
23-26	Summer Hours

Legend













All Students Holiday/Staff Workday

All Students Holiday/Staff Workday/District Comp Day

All grade levels (K-12) will have 9-week grading periods.

Regular School Day Hours

Elementary School

7:55 a.m. - 3:20 p.m.

Middle School

First Bell 8:30 a.m. Dismissal 4 p.m.

High School

First Bell 7:25 a.m. Dismissal 2:55 p.m.

SECHS Hours

Mon.-Thurs. 7:30 a.m.- 3 p.m. Fri. 7:30 a.m.-1 p.m.

Inclement Weather Days: February 10 and 11

May become school days if time is lost to bad weather Otherwise, will be Student/Teacher Break.

*Late Arrival and Early Release Days are subject to change.

Late Arrival Thursdays for Middle School: First Bell at 10:05 a.m. Late Arrival Thursdays for High School: First Bell at 9:25 a.m. SECHS has Early Release on Fridays at 1 p.m.

DOCUMENT 00 21 16 - INSTRUCTIONS TO OFFERORS:

1.1 QUALIFIED OFFERORS

- A. Competitive Sealed Proposals will be accepted from qualified Offerors (General Contractors) only for the entire scope of work described in the Contract Documents. As a prerequisite to an Offeror's qualifying for the award of contract on this work, the Offeror must complete each item of the Contractor's Qualification Statement (AIA Document A305). The Statement forms may be obtained from the Houston Chapter of the American Institute of Architects, 315 Capitol, Suite 120, Houston, Texas 77002, (713) 520-0155. In addition to the information contained in the Statement form, offerors shall also address the selection criteria issues listed under the paragraph below for Determination of Successful Respondent and Award of Contract. The Qualification Statement and References shall be submitted in IonWave with proposal (only). The Owner requests that the Qualification Statement and References be sent via email to Linda.Collier2@humbleisd.net by Monday, January 20, 2025 @ 5:00 PM.
- B. The primary purposes of the evaluation process will be to:
 - 1. Gather information for the Owner's evaluation procedure.
 - 2. Enable the Owner and/or Architect to evaluate the Offeror's qualifications.
- C. After review of Proposals and Contractor's qualifications evaluation the Owner will make his decision and each Offeror will be notified once board approval has been obtained.
- D. In arriving at his opinion concerning the Offeror's qualifications, the Architect will use the same criteria that the Owner will use in determination of the successful Offeror as detailed hereinafter.
- E. In the event a proposed Offeror fails to submit the specified Contractor's Qualification Statement (A305) by the specified date and time as noted in section 4.1 A 1.4 I of this document, such noncompliance shall be considered by both the Owner and Architect as a negative factor and could be grounds for disqualification at the Owner's discretion in the determination of the successful Offeror.

1.2 OFFEROR'S PRESENTATION

- A. Each Offeror by making his Proposal represents that:
 - 1. He has read and understands the Proposal Documents and his Proposal is made in accordance therewith.
 - 2. He has thoroughly familiarized themselves with Division 01 General Requirements as they are applicable to subsequent specification sections.
 - 3. He has visited the site, has familiarized himself with the local conditions under which the work is to be performed and has correlated his observations with the requirements of the proposed Contract Documents.
 - 4. He agrees to comply with the requirements of the following paragraph. Any Offeror who subsequently does not agree to comply with these requirements will automatically disqualify himself from proposing or receiving award of the contract.
- B. He agrees that:
 - 1. Work on the project will begin immediately upon receipt of an executed District Purchase Order ONLY.
 - 2. Offeror will participate as a team member in cooperation with the Project Architect, Engineers, Owner, and Owners agents and/orconsultants.

- 3. The Offeror will assign a competent full-time superintendent, to the project, and that superintendent shall be maintained on the project for the duration of the project, subject only to his continuous employment.
- 4. The Offeror will furnish and pay for a proposal bond in the amount of five percent (5%) of the contract amount.
- 5. If awarded, the Offeror shall furnish and pay for a Performance Bond and a Payment Bond each in the full contract amount.
- 6. Offeror shall carry and keep in full force for the duration of the Project, insurance coverage for builder's risk, workmen's compensation, comprehensive general liability, and automobile liability as required by the General Conditions and/or Supplementary General Conditions of the Specifications.
- 7. Each Offeror by making his Proposal represents that his Proposal includes only material and equipment specified in the Proposal Documents and supplemented, if necessary, for a complete and operating system.
- 8. Where subcontract work is involved and where Acceptable Subcontractors are designated for particular sections or phases of the Work, each Offeror by making his Proposal represents that his Proposal includes only firms designated as Acceptable Subcontractors.
- 9. That no asbestos PCBs or lead building materials shall be used, and that each Offeror (and sub-offeror or supplier submitting a proposal to an Offeror) shall submit an affidavit at Project Close-out stating that no asbestos, PCB's or lead building materials has been used on the Project.

1.3 PROPOSAL DOCUMENTS

- A. Proposal Documents include the Request for Competitive Sealed Proposals, Instructions to Offerors, the Proposal Form, and the proposed Contract Documents, including any Addenda issued prior to receipt of proposals, any Humble ISD required forms, and any submissions through the District's online bidding system.
- B. Contract Documents for the work consist of the Owner-Contractor Agreement, the Conditions of the Contract (General, Supplementary and other Conditions), the Drawings, the Specifications, and all Addenda issued prior to receipt of proposals.

1.4 PROPOSAL PROCEDURES

- A. A proposal is invalid if it has not been received at the designated location prior to the time and date for receipt of proposals indicated in the Request for Competitive Sealed Proposals, or prior to any extension thereof issued to the Offerors by Addenda.
- B. All requested Alternates shall be proposed. If no change in the Base Proposal is required, enter "0".
- C. Prior to the receipt of Proposals, Addenda will be forwarded by the Architect and will be available for inspection wherever the proposal documents are kept available for that purpose.
- D. Proposals must be received via the District's online bidding system on the Proposal Form located on the Line Items tab for the work as indicated by the Proposal Documents.
- E. The CSP Response must be accompanied by Proposal Bond, uploaded to the District's online bidding system or Certified Check in the amount of 5% of the proposal.
- F. All proposals must be submitted via the District's online bidding system, before the scheduled time and date for proposal opening.

- G. A proposal may be withdrawn only upon request by the Offeror or his duly authorized representative, provided such request is received by the Owner at the place designated for receipt of proposals and prior to the time fixed for the opening of proposals. A withdrawal of a proposal shall not be effective unless a written confirmation of the withdrawal is received by the Owner at said place within 48 hours before the time fixed for the opening of proposals. The Proposal Bond will be returned with the proposals if withdrawn in accordance with the above. The withdrawal of a proposal does not prejudice the right of the Offeror to file a new proposal at the time and place stated. No proposal may be withdrawn after the time fixed for the opening of proposals for a period of **90 days**.
- H. Certain references to Owner's Documents will be obsolete due to the new online bidding procedure of submission of proposal and forms through Humble ISD's online bidding system. Offerors intending to submit proposals for this Project should visit the website for the District's online bidding system at http://humbleisd.ionwave.net/Login.aspx to register and access all of the Owner's required forms, certifications and enter Base Proposal, Alternates Proposal, Unit Pricing and other required items.
- I. The A305 Document must be accompanied by a listing of the Offeror's projects of similar size and scope during the past five (5) years. The listing shall include the project name, address, building area, contract sum, contract date, contract completion date(s), substantial completion date(s), Owner representative's name, telephone number, e-mail address and the names of the Contractor's project staff assigned to the project. In addition, see 00 45 00 as the General Contractor shall include in this submission the following information regarding the Contractor's Proposed Project Team:
 - Name of the Proposed Project Executive.
 - 2. Name of the Proposed ProjectManager.
 - 3. Names of Proposed Assistant Project Managers or Project Engineers.
 - 4. Name of Proposed Project Superintendent.
 - 5. Name of Proposed Assistant Project Superintendent.
 - 6. Name of Proposed Field Engineer.
 - 7. Names of any proposed project support staff.

The General Contractor shall include a resume of qualifications for each of the project personnel proposed.

In addition, include a written summary describing the roles each person will have on the project team and what percentage of time each person will dedicate to this project on a weekly basis. In addition, the contractor shall indicate where each staff member will office (onsite or main office).

A PDF copy of the completed A305 document must be submitted with Proposal on the District's online bidding system

- J. The CSP Response must be accompanied with a bar chart construction schedule for this project with projected milestone dates and respective phasing as described by the contract documents (complete foundation, complete steel erection, dry-in, HVAC start-up, etc.).
- K. The Contract shall be awarded to the Contractor offering the "best value" to the Owner, in addition to the purchase price, based on the published selection criteria and on its ranking evaluation.

1.5 INTERPRETATION OF PROPOSAL DOCUMENTS

- A. Offerors and sub-offerors requiring clarification or interpretation of the Proposal Documents shall make a written request through the District's online bidding system. Deadline for questions is January 10, 2025 at 4:00 PM.
- B. Any interpretation, correction or change of the Proposal Documents will be made by Addendum. Interpretations, corrections or changes of the Proposal Documents made in any other manner will not be binding.
- With submission of Proposal response, Offeror agrees to selection process set forth by Humble ISD.

1.6 SUBSTITUTIONS OF MATERIALS AND EQUIPMENT

- A. The materials, products and equipment described in the Proposal Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution. The materials and equipment named in, and the procedures covered by these specifications have been selected as a standard because of quality, particular suitability or record of satisfactory performance. It is not intended to preclude the use of equal or better materials or equipment provided that same meets the requirements of the particular project and is approved in an addendum as a substitution prior to the submission of proposals.
- B. No substitution will be considered prior to receipt of proposals unless written request for approval has been received by the Architect at least seven (7) days prior to the date for receipt of proposals as described in Section 01 25 13 Products and Substitutions. Each such request shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitute including drawings, cuts, performance and test data and any other information necessary for an evaluation. The Architect's decision of approval or disapproval of a proposed substitution shall be final.
- C. If the Architect approves any proposed substitution prior to receipt of proposals, such approval will be set forth in an Addendum. Offerors shall not rely upon approvals made in any other manner.
- D. No substitutions will be considered after the Contract award.

1.7 REJECTION OF PROPOSALS

- A. The Owner shall have the right to reject any or all proposals and to reject a proposal not accompanied by any required proposal security, or by other data required by the Proposal Documents, or to reject a proposal which is in any way incomplete or irregular. The District's online bidding system does not allow an incomplete proposal to be submitted. Please allow ample time to complete all required documentation and uploads.
- B. The Owner reserves the right to reject any or all proposals and to waive any formalities or irregularities and to make the award of the contract in the best interest of the Owner.
- C. The Owner reserves the right to reject any proposal if the evidence submitted by, or investigation of, such offeror fails to satisfy the Owner that such offeror is properly qualified to carry out the obligations of the contract and to complete the work therein. Award may be made to other than the low-dollar offeror and given the one offering the "best value" to the school district, in addition to the purchase price, based on the published selection criteria and on its ranking evaluation.

D. Do not submit voluntary alternates. The Owner reserves the right to reject any proposal which is accompanied by conditional or qualifying statements, or "voluntary alternates".

1.8 INSURANCE

A. Each Offeror shall include in his proposal the complete cost and shall carry and keep in full force for the duration of the project, insurance coverage required under the General Conditions and Document CB - Supplementary Conditions.

1.9 PERFORMANCE BOND AND PAYMENT BOND

A. Each Offeror shall include in this proposal the premium costs for 100% Performance Bond and 100% Payment Bond. These bonds shall cover the faithful performance of the contract and payment of all obligations arising thereunder in such form as the Owner may prescribe. The bonding companies must be acceptable to the Owner. The selected Offeror shall deliver the required bonds to the Owner not later than the date of execution of the Contract.

1.10 PROPOSAL SECURITY

A. No proposal will be considered unless it is submitted through the District's online bidding system and accompanied by an uploaded Proposal Bond or Certified or Cashier's Check. In either case the amount shall be not less than five percent (5%) of the greatest amount proposed (considering alternates, if any). The proposal security shall insure the execution of the contract and the furnishing of an acceptable Performance Bond and Payment Bond by the successful Offeror within ten (10) days after notification of award to such Offeror and that this proposal will not be withdrawn within 90 days after date of opening of proposals without the consent of the Owner. Proposal Bond shall be prepared in the identical form of AIA Document A310.

1.11 SUBMISSION OF POST PROPOSAL INFORMATION

- A. The Selected Offeror shall within five (5) days after receipt of properly executed District Purchase Order shall submit the following:
 - A statement of costs for each major item of work included in the proposal as described in Section 01 29 73 – Schedule of Values. Each section of specifications will be considered a major item of work and shall be shown as a separate cost item.

1.12 AWARD OF CONTRACT

- A. The Offeror to whom the award is made will be promptly notified. If an Offeror (a) withdraws his proposal within 90 days after the date of time fixed for the opening of proposals in the Request for Competitive Sealed Proposals, or (b) fails or refuses to execute the Agreement, or other required forms within ten (10) days after the same are presented to him for signature, or (c) fails or refuses to furnish properly executed Performance Bond and Certification of Required Insurance within 15 calendar days of execution date of the Agreement, the Owner may award the work to another Offeror or Offerors or may call for new proposals.
- B. The Offeror will be required to (a) submit his Proposal and Proposal Bond, (b) execute Contract and Performance and Payment Bonds, and (c) submit Certification of required insurances, all using the Owner's own forms for such respective purposes.
- C. Proposal Bond is forfeited if proposal is withdrawn after the proposal opening, or Contract Documents are not executed in accordance with the above.

1.13 NOTICE TO PROCEED

A. The Offeror shall not commence work under this Contract until after receipt of properly executed District Purchase Order and the Contract is duly signed by the Owner.

1.14 COMPLETIONTIME

- A. Offerors shall familiarize themselves with the Owners requirements concerning the project schedule as described in Section 01 10 00 of this Project Manual.
- B. Having thoroughly familiarized himself with the conditions as they exist at the building sites and acquainted himself with the labor supply and the material market, the Offeror will state in his proposal that he agrees to be substantially complete with the work by the date stated above.
- C. It is therefore expressly agreed as a part of the consideration inducing the Owner to execute this contract that the Owner may deduct liquidated damages from the final payment made to the Contractor for each and every calendar day beyond the agreed date which the Contractor shall require for Substantial Completion of the work included in this contract. It is expressly understood that the said sum per day is agreed upon as a fair estimate of the pecuniary damages which will be sustained by the Owner in the event that the work is not completed within the agreed time, or within the legally extended time, if any, otherwise provided for herein. Said sum shall be considered as liquidated damages only and in no sense shall be considered a penalty, said damage being caused by additional compensation to personnel, for loss of interest on money and other miscellaneous increased costs, all of which are difficult of exact ascertainment. Also, any disruption of Owner's use of the existing facilities or newly completed facilities will also be subject to liquidated damages. Refer to Section 01 32 16 for additional requirements. Delays, disruption of use, failures to complete, and liquidated damages are fully described under Article 8.3 of the Supplementary Conditions.

The definition of Substantial Completion is found in Article 9.8.1 of the AIA General Conditions and Supplementary Conditions bound herein.

1.15 FELONY CONVICTION NOTIFICATION

- A. Section 44.034, of the Texas Education Code requires a person or business entity that enters into a contract with a school district must give advance notice to the district if the person or an owner or operator of the business entity has been convicted of a felony. The notice must include a general description of the conduct resulting in the conviction of a felony. Subsection (b) states "a school district may terminate a contract with a person or business entity if the district determines that the person or business entity failed to give notice as required by Subsection (a) or misrepresented the conduct resulting in the conviction. The district must compensate the person or business entity for services performed before the termination of the contract." Subsection (c) states "this section does not apply to a publicly held corporation."
- B. The Offeror must acknowledge their agreement with this requirement as directed under the "Attributes" tab in the District's online bidding system.

1.16 AFFIDAVIT OF NON-DISCRIMINATORY EMPLOYMENT

A. The Offeror, and sub-offerors, shall agree to refrain from discrimination in terms and

conditions of employment to the basis of race, color, religion, sex, or national origin, and agrees to take affirmative action as required by Federal Statutes and Rules and Regulations issued in order to maintain and insure non-discriminatory employment practices.

B. The Offeror must acknowledge their agreement to this requirement as directed under the "Attributes" tab in the District's online bidding system.

1.17 LIST OF SUBCONTRACTORS

- A. The Offeror shall supply a list of major subcontractors:
- B. The Offeror <u>must</u> execute the List of Subcontractors and submit with their Proposal on the District's online bidding system.

1.18 AFFIDAVIT OF NON-ASBESTOS, LEAD, AND PCB USE IN PROJECT

- A. The use of any construction process or the installation of any asbestos, lead and PCBs or material containing asbestos, lead and PCBs is strictly prohibited for this Project.
- B. The Offeror must execute the Asbestos Short Term Worker Form with their Proposal on the District's online bidding system.
- C. The Offeror, and sub-offerors shall agree to refrain from using products which are known to contain asbestos, lead, and PCB containing materials as applicable to the project. They shall also affirm that lead or lead bearing materials have not been incorporated into potable water systems, and that lead sheet flashing used in through roof plumbing penetration applications is the only lead on the Project.
- D. The Selected Offeror (Contractor) <u>must</u> execute Document 00 45 23 AY, Affidavit of Non-Asbestos, Lead, and PCB Use and submit at Project Closeout. The Subcontractors to the Contractor <u>must</u> execute Close-out Form "C", attached to section 01 77 00, Subcontractors Hazardous Material Certificate and submit at Project Closeout.

1.19 AFFIDAVIT OF NON-COLLUSION

- A. By submitting a proposal, each offeror agrees to waive any claim it has or may have against the District and its respective employees, the Program Manager and their respective employees, the Architect/Engineer and consultants, and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any proposal; waiver of any requirements under the Proposal Documents, acceptance or rejection of any proposals; and award of the contract.
- B. The Offeror must acknowledge their agreement with this requirement as directed under the "Attribute" tab in the District's online bidding system.

1.20 CRIMINAL HISTORY RECORDS

A. Prior to commencing any work on this Project, The Offeror must acknowledge their agreement with this requirement as directed under the "Attribute" tab in the District's online bidding system, that for each of its employee who will have direct contact with students, the Selected Contractor has obtained, as required by Texas Education Code Section22.0834:

- National criminal history record information from a law enforcement or criminal justice agency for each employee of the Selected Contractor hired before January 1, 2008 who will have direct contact with students; and
- 2. National criminal history record information from the Texas Department of Safety for each employee of the Selected Contractor hired on or after January 1, 2008 who will have direct contact with students; Fingerprinting is required and shall be provided by the contractor (applicant) and administered through FAST (Fingerprint Applicant Services of Texas) which will be recorded by the District in the FACT (Fingerprint-based Applicant Clearinghouse of Texas). Currently applicant must obtain fingerprinting from L-1 Identity Solutions Company, (888) 467-2080, or schedule an appointment online at: https://tx.ibtfingerprint.com/.
- B. Any personnel who will have direct contact with students must not have been convicted of an offense identified in Texas Education Code Section 22.085.
- C. At this time, Senate Bill 9 applies only to contractors with direct contracts with the District. This requirement does not apply to sub-contractors of the Contractor, material suppliers, or a one-time service provider such as a service technician, delivery person, testing agent, code official, or similar personnel. However, changes to these requirements are anticipated and may require the acquisition and submittal of additional background checks to the District during the course of theWork.
- D. The Offeror must acknowledge their agreement with this requirement as directed under the "Attributes" tab in the District's online bidding system
- E. Furthermore, an updated Schedule 'B' shall be submitted weekly to the District indicating changes to contractor personnel with accompanying certifications and criminal history records. Any fingerprinting and photographing required by the aforementioned code will be the responsibility of the Contractor-Employer.

1.21 CONFLICT OF INTEREST QUESTIONNAIRE

- A. According to Local Government Code, Chapter 176, a person or an agent of a person who contracts or seeks to contract for the sale or purchase of property, goods, or services with any government agency must file a completed Conflict of Interest Questionnaire with the records administrator of the local government not later than the seventh business day after the date that the person begins contract discussions or negotiations with the District or submits to the District an application, response to a request for proposals or bids, correspondence, or another writing related to a potential agreement with the District.
- B. The Offeror must execute the Conflict of Interest Questionnaire with their Proposal on the District's online bidding system.

1.23 AVAILABILITY OF MATERIALS AND SYSTEMS

A. A serious effort has been made to select only materials that are systems that are readily available. As far as is known at proposal time all items are either available "off the shelf" or within a relatively short period of time. If during the proposal period, an Offeror becomes aware of an availability or delivery problem with any of the specified systems or materials, he should notify the Architect immediately. The Architect will promptly explore possibilities for

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selecting other systems or materials which would circumvent the problem and notify Offerors of any changes in an addendum, otherwise it will be understood that only specified systems and materials that are readily available are included in the proposals.

1.24 DETERMINATION OF SUCCESSFUL RESPONDENT AND AWARD OF CONTRACT

- A. In determining the award of a contract, the district shall consider and apply:
 - Any existing laws, including any criteria, related to historically underutilized businesses; and
 - 2. Any existing laws, rules, or applicable municipal charters, including laws applicable to local governments, related to the use of women, minority, small, or disadvantaged businesses.
- B. The Selection Committee consisting of Humble ISD administrators, program managers, architects, consultants and other staff will make an initial evaluation of the proposals. The committee's recommendation will be considered by the Humble ISD Board of Trustees ("Board"). The District reserves the right to review the recommendation with the Executive Director of Facilities Construction and others deemed appropriate by the District prior to review by the entire Board. The final decision-making authority on the proposal's rests with the full Board. Decision-making authority has not been delegated to any person or entity other than the Board.
- C. The District will make such investigations as it deems necessary to determine the ability of the offeror to perform the Work, and the offeror shall furnish all such information and data for this purpose as may be requested. The District reserves the right to reject any proposal if the evidence submitted by, or investigation of, such offeror fails to satisfy the District that such offeror is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein.
- D. The District reserves the right to reject any or all proposals and to waive any formalities or irregularities and to make the award of the contract in the best interest of the District.
- E. A decision regarding determination of the successful Offeror will be made by the District as soon as practical.

1.25 USE OF ASBESTOS FREE MATERIALS, PRODUCTS AND SYSTEMS

- A. The Offeror is reminded to refer to the Paragraph above for requirements during the Proposal period and the following requirements during performance of the Work regarding the use of asbestos free materials, products and systems in the Project.
 - Since many materials, products and systems are proprietary, it is not possible to know all of the materials or components which go into producing such material, product or system without the manufacturer divulging trade secrets or patent information. Every effort has been made to specify materials, products or systems, which either as an "off the shelf" material, product or system or as a custom material, product or system do not contain asbestos.
 - 2. It is the Contractor's responsibility to submit an affidavit from the manufacturer to ascertain that every material, product or system used in the Project does not contain asbestos. In the event the material, product or system is found to contain asbestos, the Contractor shall offer for the Architect's consideration a substitution which he knows does not contain asbestos.

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- 3. Even though a material, product or system is specified or a specification is based on a particular material, product or system, the Contractor will not be relieved from the responsibility to ascertain that materials, products and systems used in the Project do not contain asbestos. Under no circumstances shall a material, product or system which is known, suspected or found to contain asbestos be used on the Project.
- 4. If a material, product or system containing asbestos is used, the Contractor shall remove and replace the material, product or system with one which is asbestos free at no additional expense to the Owner, including removal and replacement of other materials affected by the removal of the asbestos bearing material, product or system, i.e. gypsum wallboard removed, replaced, and repainted on account of insulation being removed, etc.

END OF DOCUMENT

SECTION 11 30 00 - SUBMERSIBLE WASTEWATER PUMPS FOR DUPLEX WET WELL INSTALLATION

PART 1. GENERAL

Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section. CONDITIONS OF THE CONTRACT AND DIVISION 1, as applicable, apply to this Section.

1.1. SCOPE OF WORK

A. The work in this section shall include furnishing and placing into operation **2** submersible pumps, with discharge connections, lifting chains and guide bars as specified herein and as indicated on the drawings. The complete pump station shall be submersible up to 65 feet above the inlet pipe level.

1.2. RELATED SECTIONS

A. Section 16156 – Instrumentation & Control System.

1.3. REFERENCES

- A. American Society for testing and material (ASTM) International
 - 1. A 48: Standard Specification for Gray Iron Castings.
 - 2. A743: Standard Specification Iron-Chromium Nickel, Corrosion Resistant,
- B: American National Standards Institute (ANSI):
 - 1. B16.1: Standard for Cast Iron Pipe Flanges and Flanged Fittings, 125 lb.
- C. Hydraulic Institute: Current Standards.
 - 1. HI 14.6: Hydrodynamic Pumps for Hydraulic Performance Acceptance Tests.
 - 2. HI 11.6: Submersible Pump Tests

1.4. SUBMITTALS

- A. Submittal data shall be provided to show compliance with these specifications, plans or other specifications that will influence the proper operation of the pump(s).
- B. Standard submittal data for approval must consist of:
 - 1. Pump Performance Curves.
 - 2. Pump Outline Drawing.
 - 3. Station Drawing for Accessories.
 - 4. Electrical Motor Data.
 - 5. Typical Installation Guides.
 - 6. Technical Manuals and Parts List.
 - 8. Printed Warrantv.
 - 9. Management system certificate ISO 9001.
 - 10. Manufacturer's Equipment Storage Recommendations.
 - 11. Manufacturer's Standard Recommended Start-Up Report Form.
- C. Lack of the above requested submittal data is cause for rejection.

1.5. QUALIFICATION REQUIREMENTS

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- A. The manufacturer shall provide data on alternate equipment manufacturer's experience. Only Manufacturers with 20 or more years of experience who have furnished at least 5 similar lift stations shall be considered.
- B. After installation, a pump station start-up shall be performed by the installing contractor under the supervision of the manufacture's authorized representative. 8 hours of field service shall be provided by an authorized, factory trained representative of the pump manufacturer. Services shall include, but not be limited to, inspection of the completed pump station installation to ensure that it has been performed in accordance with the manufacturer's instructions and recommendations, supervision of all field-testing and activation of the Pump Manufacturer's Warranty. The test shall demonstrate to the satisfaction of the Owner that the equipment meets all specified performance criteria, is properly installed and anchored, and operates smoothly without exceeding the full load amperage rating of the motor. The Contractor shall be responsible for coordinating the required field services with the Pump Manufacturer.

1.6. DELIVERY, STORAGE AND HANDLING

A. Deliver, store and handle products to site under provisions of applicable sections.

1.7. OPERATIONAL REQUIREMENTS AND WARRANTY

- A. The contractor shall supply and install 2 submersible sewage pumps with discharge connections, discharge pipes, guide bars, cable holder lifting chains and an integrated pump control system.
- B. The submersible pumps shall have a semi open multi vane self-cleaning impeller designed to transport wastewater with fibrous materials like wet wipes.
- C. The impeller shall be wear resistant and made of high chromium cast iron with at least 24% chrome against sand and grit which is expected to enter the pump station with the sewage or the storm water. Impellers that have surface hardening (by thermal, coating, etc.) will not be allowed.
- D. Sealing of the pump unit to the discharge connection shall be accomplished by a machined metal to metal watertight contact. Sealing of the pump discharge interface with an O-ring, diaphragm or profile gasket is not acceptable.
- E. Each pump shall be capable to lift 295 US gpm at a total dynamic head of 10.00 feet.
- F. The pumps shall be provided with prorated 60 months (5 years) warranty against defects in materials and or workmanship. Unless otherwise specified, all other equipment shall be warrantied for 12 months (1 year). The warranty shall be in printed form and previously published as the manufacturer's standard warranty for all similar units manufactured, latest revision. Upon warranty occurrence, the manufacturer's authorized service center shall remove the pump, repair, reinstall and provide start up on the repaired pump. A detailed failure analysis shall be submitted to the Owner for their records summarizing corrective action taken.
- G. The manufacturer shall guarantee clog-free operation for a period of 24 months from the date of start-up of the pumps by the local authorized factory representative. A certificate shall be provided to the Owner on the day of start up with the local contact information and effective date. If the impeller clogs with typical solids or modern trash debris normally found in domestic wastewater during this period, an authorized representative shall travel to the jobsite, remove the pump, clear the obstruction and reinstall the pump at no cost for the Owner. A written report shall be provided to the Owner detailing the service call with pictures for verification purposes.

PART 2. PRODUCTS

2.1. SUBMERSIBLE SEWAGE PUMPS (FLYGT NP 3102 OR EQUIVALENT)

- A. Each station shall be equipped with 2 submersible, close-coupled wastewater pumps.
- B. Each pump shall be equipped with a 3 HP submersible electric motor, capable to operate on a 460 volt, 3 phases, 60 hertz voltage supply.
- C. The hydraulic of the pump shall be capable of handling raw domestic wastewater and storm water with fibrous materials like wet wipes.
- D. The impeller blades shall be self-cleaning upon each rotation as they pass across a sharp relief groove in the Insert ring and shall keep the impeller blades clear of debris. The insert ring shall have a guide pin which moves fibers from the center of the impeller to the leading edges of the impeller. The impeller shall move axially upwards to allow larger debris to pass through and immediately return to normal operating position. The clearance between the insert ring and the impeller leading edges shall be adjustable.
- E. The impeller shall be wear resistant and made of high chromium cast iron with at least 24% chrome against sand and grit which is expected to enter the pump station with the sewage or the storm water. Impellers that have surface hardening (by thermal, coating, etc.) will not be allowed
- F. The pump shall be capable to operate without any limitation between 50% and 125% of the Best efficiency point (B.E.P) of the performance curve.

	Flow in US gpm	TDH in feet	Hydraulic	NPSHre in
			efficiency %	feet
Required Duty Point	295	10.0	64.93	3.61
Guaranteed duty point	To be filled in by	To be filled in by	To be filled in	To be filled in
acc. HI <10kW B	supplier	supplier	by supplier	by supplier
Best efficiency point of	To be filled in by	To be filled in by	To be filled in	To be filled in
offered pump (B.E.P.)	supplier	supplier	by supplier	by supplier

- G. The required shaft power (P2) in the guaranteed duty point shall be less than 1.15 HP. The motor speed shall be max.: 1423 rpm. A performance chart shall be provided upon request showing curves for torque, current, power factor, input/output HP and efficiency. This chart shall also include data on starting and no-load characteristics
- H. The impeller shall be mounted on the motor shaft. Couplings shall not be accepted.
- I. The pump motor shall be induction type with a squirrel cage rotor, shell type design, housed in an air filled, watertight chamber. It shall be permanently submersible according standard IEC 60034 and protection class IP 68.
- J. The stator windings shall be insulated with moisture resistant Class H insulation rated for 356°F.
- K. The motor shall be capable of no less than 30 evenly spaced starts per hour and be able to operate throughout the entire pump performance curve from shut-off through run-out even when the motor is not submerged

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- L. Sealing of the pumping unit to the discharge connection shall be accomplished by a machined metal to metal watertight contact. Sealing of the discharge interface with a diaphragm, O-ring or profile gasket will not be acceptable.
- M. It shall be possible to lift and lower the pumps on parallel guide bars and connect them to wet well mounted discharge connection. There shall be no need for personal to enter the wet well when removing or reinstalling the pumps.
- N. The pump housing shall be prepared for the assembling of a sump mixing valve. The discharge flange of the pump housing shall be 4". The discharge piping shall be 4".
- O. The junction chamber containing the terminal board shall be hermetically sealed from the motor by an elastomeric compression seal. Connection between the cable conductors and stator leads shall be made with threaded compression type binding posts permanently affixed to a terminal board. The motor and the pump shall be produced by the same manufacturer.
- P. The motor shall be protected by 3 thermal switches embedded in the stator set to open at 260°F and one leakage sensor floating type located in the stator chamber. The sensor and the switches shall be connected to the control panel which shall stop the motor and send an alarm when the sensors are activated.
- Q. The pump shall be Explosion approved according FM CLASS 1. DIV 1 "C" & "D"
- R. The cable entry shall consist of dual cylindrical elastomer sleeves, flanked by washers, all having a close tolerance fit against the cable and the cable entry. Epoxies, silicones, or other secondary sealing systems shall not be considered acceptable.
- S. The pump shaft shall rotate on two bearings. Motor bearings shall be permanently grease lubricated and have a nominal L10 lifetime of 50.000 hours. The upper bearing shall be a single deep groove ball bearing. The lower bearing shall be a two row angular contact bearing to compensate for axial thrust and radial forces. Single row lower bearings are not acceptable.
- T. The shaft shall be sealed by a tandem mechanical shaft seal system consisting of two seals, each having an independent spring system. The seals shall require neither maintenance nor adjustment and shall be capable of operating in either clockwise or counter clockwise direction of rotation without damage or loss of seal function.
- U. Each pump shall be provided with a lubricant chamber for the shaft sealing system. The lubricant chamber shall be designed to prevent overfilling and to provide lubricant expansion capacity. The drain and inspection plug, with positive anti-leak seal shall be easily accessible from the outside. The seal system shall not rely upon the pumped media for lubrication. Seal lubricant shall be non-hazardous.
- V. Where a seal cavity is present in the seal chamber, the area about the exterior of the lower mechanical seal in the cast iron housing shall have cast in an integral concentric spiral groove. This groove shall protect the seals by causing abrasive particulate entering the seal cavity to be forced out away from the seal due to centrifugal action
- W. The Materials of construction shall be as follows:

- a. Pump housing: ASTM A-48, Class 35B
- b. Impeller and insert ring: A 532 ALLOY III A (25% Chrome)
- c. Stator housing: ASTM A-48, Class 35B
- d. Shaft: ASTM A479 S43100-T.
- e. Shaft seal: Pump side: Corrosion resistant Tungsten carbide WCCR
- f. Shaft seal Motor side: Carbon-Aluminum oxide (AL2O3)
- X. All castings must be blasted before coating. All wet surfaces are to be coated with two-pack oxyrane ester Duasolid 50. The total layer thickness should be at least 120 microns. Zink dust primer shall not be used.
- Y. The motor shall be equipped with 30 feet of screened cable suitable for submersible pump applications. The power cable shall be sized according to NEC and ICEA. The outer jacket of the cable shall be oil resistant chlorinated polyethylene rubber. The cable shall be capable of continuous submergence underwater without loss of watertight integrity to a depth of 65 feet.
- Z. Each completed and assembled pump/motor unit shall undergo the following factory tests at the manufacturer's plant prior to shipment. The Manufacturer shall provide on demand a copy of his quality control plan for these tests and an ISO 9001 factory certificate:
 - a. Minimum 3-point hydraulic performance test
 - b. No-Leak seal integrity test
 - c. Electrical integrity test

2.2. EQUIPMENT FOR WET WELL INSTALLATION

- A. For each pump the contractor shall supply and install a discharge connection made of cast iron ASTM A-48, Class 35B.
- B. The outlet flange of the discharge connection shall be 4" drilled according ANSI B16.1-89; tab.5.
- C. The pump(s) shall be automatically and firmly connected to the discharge connection, guided by no less than two parallel guide bars extending from the top of the station to the wet well mounted discharge connection. The material of the guide bars shall Stainless steel AISI 316.
- D. The length of the guide bars shall be 30 feet max and they shall be fasten at the top of the station with a guide bar holder made of Stainless steel AISI 316.
- E. For each pump the contractor shall supply and install a cable holder made with 4 hooks of Stainless steel AISI 316.
- F. There shall be no need for personnel to enter the wet-well.
- G. The sealing of the pumping unit to the discharge connection shall be accomplished by a machined metal to metal contact. Sealing of the discharge interface with a diaphragm, O-ring or profile gasket will not be accepted. The entire weight of the pump/motor unit shall be borne by the pump discharge elbow. No portion of the pump/motor unit shall bear on the sump floor directly or on a sump floor mounted stand.

2.3. LIFTING EQUIPMENT FOR PUMPS

A. Each pump shall be fitted with TBD feet of stainless steel lifting chain or lifting cable. The working load of the lifting system shall be 50% greater than the pump unit weight.

2.4. SUMP MIXING VAVLE (FLYGT 4901 OR EQUIVALENT)

- A. One pump unit in each pump station shall be equipped with an automatically operating flush valve mounted directly to the pump volute. During the starting the valve shall redirect a portion of the pumped media into the sump to re-suspend solids and grease by the turbulent action of its discharge.
- B. The valve shall be equipped with an adjustable, wear-resistant discharge nozzle that can be used to direct flow within the sump. The valve shall operate by differential pressure across the valve and shall not require any electric or pneumatic power source to operate. The valve shall be suitable for use in Class I, Division 1 hazardous locations.
- C. The valve shall open at the beginning of each pumping cycle and shall automatically close during the pump operation after a pre-set time. A method of adjusting the valve operating time shall be provided.

END OF SECTION

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A-101H.1 A-101J A-101K A-101K.1 A-101L A-101M.1 A-101N.1 A-101P.1 A-101S.1 A-101S.2 A-101U A-102A A-102A.1	1ST LEVEL - FLOOR PLAN - AREA H.1 - ALTERNATE #07 1ST LEVEL - FLOOR PLAN - AREA J 1ST LEVEL - FLOOR PLAN - AREA K 1ST LEVEL - FLOOR PLAN - AREA K 1ST LEVEL - FLOOR PLAN - AREA K 1ST LEVEL - FLOOR PLAN - AREA L 1ST LEVEL - FLOOR PLAN - AREA M ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA N 1ST LEVEL - FLOOR PLAN - AREA N 1ST LEVEL - FLOOR PLAN - AREA P ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA S OWNER FURNISHED CONTRACTOR INSTALLED ITEMS OWNER FURNISHED CONTRACTOR INSTALLED ITEMS 1ST LEVEL - FLOOR PLAN - AREA U 2ND LEVEL - FLOOR PLAN - AREA A
A-101H.1 A-101J A-101K A-101K.1 A-101L A-101M.1 A-101N.1 A-101P.1 A-101S.1 A-101S.2 A-101U A-102A A-102A.1 A-102B	1ST LEVEL - FLOOR PLAN - AREA H.1 - ALTERNATE #07 1ST LEVEL - FLOOR PLAN - AREA J 1ST LEVEL - FLOOR PLAN - AREA K 1ST LEVEL - FLOOR PLAN - AREA K 1ST LEVEL - FLOOR PLAN - AREA L 1ST LEVEL - FLOOR PLAN - AREA M ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA N 1ST LEVEL - FLOOR PLAN - AREA N 1ST LEVEL - FLOOR PLAN - AREA N 1ST LEVEL - FLOOR PLAN - AREA P ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA P ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA S OWNER FURNISHED CONTRACTOR INSTALLED ITEMS OWNER FURNISHED CONTRACTOR INSTALLED ITEMS 1ST LEVEL - FLOOR PLAN - AREA U 2ND LEVEL - FLOOR PLAN - AREA A 2ND LEVEL - FLOOR PLAN - AREA A
A-101H.1 A-101J A-101K A-101K.1 A-101L A-101M.1 A-101N.1 A-101P.1 A-101S.1 A-101S.2 A-101U A-102A A-102B A-102B.1	1ST LEVEL - FLOOR PLAN - AREA H.1 - ALTERNATE #07 1ST LEVEL - FLOOR PLAN - AREA J 1ST LEVEL - FLOOR PLAN - AREA K 1ST LEVEL - FLOOR PLAN - AREA K 1ST LEVEL - FLOOR PLAN - AREA K 1ST LEVEL - FLOOR PLAN - AREA L 1ST LEVEL - FLOOR PLAN - AREA M ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA N 1ST LEVEL - FLOOR PLAN - AREA N 1ST LEVEL - FLOOR PLAN - AREA P ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA P ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA S OWNER FURNISHED CONTRACTOR INSTALLED ITEMS OWNER FURNISHED CONTRACTOR INSTALLED ITEMS 1ST LEVEL - FLOOR PLAN - AREA U 2ND LEVEL - FLOOR PLAN - AREA A 2ND LEVEL - FLOOR PLAN - AREA A 2ND LEVEL - FLOOR PLAN - AREA B 2ND LEVEL - FLOOR PLAN - AREA B
A-101H.1 A-101J A-101K A-101K.1 A-101L A-101M.1 A-101N.1 A-101P.1 A-101S.1 A-101S.2 A-101U A-102A A-102A.1 A-102B	1ST LEVEL - FLOOR PLAN - AREA H.1 - ALTERNATE #07 1ST LEVEL - FLOOR PLAN - AREA J 1ST LEVEL - FLOOR PLAN - AREA K 1ST LEVEL - FLOOR PLAN - AREA K 1ST LEVEL - FLOOR PLAN - AREA L 1ST LEVEL - FLOOR PLAN - AREA M ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA N 1ST LEVEL - FLOOR PLAN - AREA N 1ST LEVEL - FLOOR PLAN - AREA N 1ST LEVEL - FLOOR PLAN - AREA P ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA P ALTERNATE #05 1ST LEVEL - FLOOR PLAN - AREA S OWNER FURNISHED CONTRACTOR INSTALLED ITEMS OWNER FURNISHED CONTRACTOR INSTALLED ITEMS 1ST LEVEL - FLOOR PLAN - AREA U 2ND LEVEL - FLOOR PLAN - AREA A 2ND LEVEL - FLOOR PLAN - AREA A

VOLUME 2

	MECHANICAL		PLUMBING
M-001	MECHANICAL GENERAL NOTES AND LEGENDS	PU-101J	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA J
MD-101.1	1ST LEVEL MECHANICAL DEMO PLAN - ALTERNATE 2	PU-101K	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA K
MD-101B	1ST LEVEL MECHANICAL DEMO PLAN - AREA B	PU-101L	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA L
MD-101G	1ST LEVEL MECHANICAL DEMO PLAN - AREA G	PU-101M	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA M
MD-102.1	2ND LEVEL MECHANICAL DEMO PLAN - ALTERNATE 2	PU-101Q	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA Q
MD-102A	2ND LEVEL MECHANICAL DEMO PLAN - AREA A	PU-101S	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA S
MD-102B	2ND LEVEL MECHANICAL DEMO PLAN - AREA B	P-101	1ST LEVEL PLUMBING PLAN - COMPOSITE
MD-102G	2ND LEVEL MECHANICAL DEMO PLAN - AREA G	P-101A	1ST LEVEL PLUMBING PLAN - AREA A
M-101	1ST LEVEL MECHANICAL PLAN - COMPOSITE	P-101A.1	1ST LEVEL PLUMBING PLAN - AREA A - ALTERNATE 2
M-101A.1	1ST LEVEL MECHANICAL PLAN - AREA A - ALTERNATE 2	P-101B	1ST LEVEL PLUMBING PLAN - AREA B
M-101B	1ST LEVEL MECHANICAL PLAN - AREA B	P-101B.1	1ST LEVEL PLUMBING PLAN - AREA B - ALTERNATE 2
M-101B.1	1ST LEVEL MECHANICAL PLAN - AREA B - ALTERNATE 2	P-101D.1	1ST LEVEL PLUMBING PLAN - AREA D - ALTERNATE 2
M-101C.1	1ST LEVEL MECHANICAL PLAN - AREA C - ALTERNATE 2	P-101E.1	1ST LEVEL PLUMBING PLAN - AREA E - ALTERNATE 2
M-101D.1	1ST LEVEL MECHANICAL PLAN - AREA D - ALTERNATE 2	P-101F	1ST LEVEL PLUMBING PLAN - AREA F
M-101E.1	1ST LEVEL MECHANICAL PLAN - AREA E - ALTERNATE 2	P-101F.1	1ST LEVEL PLUMBING PLAN - AREA F - ALTERNATE 2
M-101F.1	1ST LEVEL MECHANICAL PLAN - AREA F - ALTERNATE 2	P-101G	1ST LEVEL PLUMBING PLAN - AREA G
M-101G	1ST LEVEL MECHANICAL PLAN - AREA G - ALTERNATE 3	P-101G.1	1ST LEVEL PLUMBING PLAN - AREA G - ALTERNATE 2
M-101G.1	1ST LEVEL MECHANICAL PLAN - AREA G - ALTERNATE 2	P-101H	1ST LEVEL PLUMBING PLAN - AREA H
M-101J	1ST LEVEL MECHANICAL PLAN - AREA J	P-101J	1ST LEVEL PLUMBING PLAN - AREA J
M-101K	1ST LEVEL MECHANICAL PLAN - AREA K	P-101K	1ST LEVEL PLUMBING PLAN - AREA K
M-101K.1	1ST LEVEL MECHANICAL PLAN - AREA K - ALTERNATE 2	P-101L	1ST LEVEL PLUMBING PLAN - AREA L
M-101L	1ST LEVEL MECHANICAL PLAN - AREA L	P-101L.1	1ST LEVEL PLUMBING PLAN - AREA L - ALTERNATE 2
M-101L.1	1ST LEVEL MECHANICAL PLAN - AREA L - ALTERNATE 2	P-101M	1ST LEVEL PLUMBING PLAN - AREA M
M-101M.1	1ST LEVEL MECHANICAL PLAN - AREA M - ALTERNATE 2	P-101N.1	1ST LEVEL PLUMBING PLAN - AREA N - ALTERNATE 2
M-101N.1	1ST LEVEL MECHANICAL PLAN - AREA N - ALTERNATE 2	P-101P.1	1ST LEVEL PLUMBING PLAN - AREA P - ALTERNATE 2
M-101P.1	1ST LEVEL MECHANICAL PLAN - AREA P - ALTERNATE 2	P-101Q	1ST LEVEL PLUMBING PLAN - AREA Q
M-101S	1ST LEVEL MECHANICAL PLAN - AREA S	P-101S	1ST LEVEL PLUMBING PLAN - AREA S
M-102	2ND LEVEL MECHANICAL PLAN - COMPOSITE	P-102	2ND LEVEL PLUMBING PLAN - COMPOSITE
M-102A	2ND LEVEL MECHANICAL PLAN - AREA A	P-102A	2ND LEVEL PLUMBING PLAN - AREA A
M-102A.1	2ND LEVEL MECHANICAL PLAN - AREA A - ALTERNATE 2	P-102A.1	2ND LEVEL PLUMBING PLAN - AREA A ALTERNATE #1
M-102B	2ND LEVEL MECHANICAL PLAN - AREA B	P-102B	2ND LEVEL PLUMBING PLAN - AREA B
M-102B.1	2ND LEVEL MECHANICAL PLAN - AREA B - ALTERNATE 2	P-102B.1	2ND LEVEL PLUMBING PLAN - AREA B ALTERNATE #1
M-102D.1	2ND LEVEL MECHANICAL PLAN - AREA D - ALTERNATE 2	P-102F	2ND LEVEL PLUMBING PLAN - AREA F
M-102F.1	2ND LEVEL MECHANICAL PLAN - AREA F - ALTERNATE 2	P-102F.1	2ND LEVEL PLUMBING PLAN - AREA F ALTERNATE #1
M-102G	2ND LEVEL MECHANICAL PLAN - AREA G	P-102G	2ND LEVEL PLUMBING PLAN - AREA G
M-102G.1	2ND LEVEL MECHANICAL PLAN - AREA G - ALTERNATE 2	P-102G.1	2ND LEVEL PLUMBING PLAN - AREA G ALTERNATE #1
M-102J	2ND LEVEL MECHANICAL PLAN - AREA J	P-102H	2ND LEVEL PLUMBING PLAN - AREA H
M-102N.1	2ND LEVEL MECHANICAL PLAN - AREA N - ALTERNATE 2	P-102J	2ND LEVEL PLUMBING PLAN - AREA J
M-201	MECHANICAL ENLARGED PLANS	P-102K	2ND LEVEL PLUMBING PLAN - AREA K
M-202	MECHANICAL ENLARGED PLANS	P-102L	2ND LEVEL PLUMBING PLAN - AREA L
M-301	ROOF MECHANICAL PLAN	P-102S	2ND LEVEL PLUMBING PLAN - AREA S
M-401	MECHANICAL FLOW DIAGRAMS	P-301	PLUMBING ROOF PLAN
M-402	MECHANICAL FLOW DIAGRAMS	P-401	ENLARGED PLANS AREA B
M-501	MECHANICAL SCHEDULES	P-402	ENLARGED PLANS AREA B
M-502	MECHANICAL SCHEDULES	P-403	ENLARGED PLANS AREA G
M-503	MECHANICAL SCHEDULES - ALTERNATE 3	P-404	ENLARGED PLANS AREA G1
M-601	MECHANICAL DETAILS	P-405	ENLARGED PLANS AREA G2
M-602	MECHANICAL DETAILS	P-500	PLUMBING EQUIPMENT SCHEDULE
M-603	MECHANICAL DETAILS MECHANICAL DETAILS	P-601	PLUMBING DETAILS
141 000		P-602	PLUMBING DETAILS
		P-603	PLUMBING DETAILS
		P-701	PLUMBING RISER DIAGRAMS AREA B - DOMESTIC WATER
	ELECTRICAL	P-702	PLUMBING RISER DIAGRAM AREA B - WASTE & VENT
		P-703	PLUMBING RISER DIAGRAM AREA B - NATURAL GAS

	ELECTRICAL
ED101.2	1ST LEVEL POWER DEMO PLAN - ALTERNATE 2
ED101G.3	1ST LEVEL POWER DEMO PLAN - AREA G - ALTERNATE 3
ED101J	1ST LEVEL POWER DEMO PLAN - AREA J
ED101K	1ST LEVEL POWER DEMO PLAN - AREA K
ED101U	1ST LEVEL POWER DEMO PLAN - AREA U
ED102.2	2ND LEVEL POWER DEMO PLAN - ALTERNATE 2
ED102G.3	2ND LEVEL POWER DEMO PLAN - AREA G - ALTERNATE 3
ES-101	ELECTRICAL SITE PLAN
E-101A	1ST LEVEL POWER PLAN - AREA A
E-101B	1ST LEVEL POWER PLAN - AREA B
E-101C	1ST LEVEL POWER PLAN - AREA C
E-101E	1ST LEVEL POWER PLAN - AREA E
E-101F	1ST LEVEL POWER PLAN - AREA F
E-101G	1ST LEVEL POWER PLAN - AREA G
E-101G.3	1ST LEVEL POWER PLAN - AREA G ALTERNATE #3
E-101J	1ST LEVEL POWER PLAN - AREA J
E-101K	1ST LEVEL POWER PLAN - AREA K
E-101K.1	1ST LEVEL POWER PLAN - AREA K ALTERNATE #1
E-101L	1ST LEVEL POWER PLAN - AREA L
E-101N	1ST LEVEL POWER PLAN - AREA N
E-101R	1ST LEVEL POWER PLAN - AREA R
E-101S	1ST LEVEL POWER PLAN - AREA S

1ST LEVEL POWER PLAN - AREA U

2ND LEVEL POWER PLAN - AREA A

1ST LEVEL LIGHTING PLAN - AREA K

1ST LEVEL LIGHTING PLAN - AREA L

1ST LEVEL LIGHTING PLAN - AREA S

2ND LEVEL LIGHTING PLAN - AREA B

2ND LEVEL LIGHTING PLAN - AREA C

2ND LEVEL LIGHTING PLAN - AREA H

ELECTRICAL RISER DIAGRAM

ELECTRICAL PANEL SCHEDULES

ELECTRICAL PANEL SCHEDULES ELECTRICAL PANEL SCHEDULES

ELECTRICAL DETAILS

PLUMBING COVER SHEET PLUMBING SITE PLAN

1ST LEVEL LIGHTING PLAN - AREA L - ALTERNATE 2

1ST LEVEL LIGHTING PLAN - AREA M - ALTERNATE 2

1ST LEVEL LIGHTING PLAN - AREA N - ALTERNATE 2

1ST LEVEL LIGHTING PLAN - AREA P - ALTERNATE 2

2ND LEVEL LIGHTING PLAN - AREA A - ALTERNATE 2

2ND LEVEL LIGHTING PLAN - AREA B - ALTERNATE 2

2ND LEVEL LIGHTING PLAN - AREA F - ALTERNATE 2

2ND LEVEL LIGHTING PLAN - AREA G - ALTERNATE 2

2ND LEVEL LIGHTING PLAN - AREA G - ALTERNATE 3

2ND LEVEL LIGHTING PLAN - AREA N - ALTERNATE 2

ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE

PLUMBING

1ST LEVEL PLUMBING DEMO PLAN - ALTERNATE 2 1ST LEVEL PLUMBING DEMO PLAN - AREA A

1ST LEVEL PLUMBING DEMO PLAN - AREA B

1ST LEVEL PLUMBING DEMO PLAN - AREA D

1ST LEVEL PLUMBING DEMO PLAN - AREA E

1ST LEVEL PLUMBING DEMO PLAN - AREA F

1ST LEVEL PLUMBING DEMO PLAN - AREA G

1ST LEVEL PLUMBING DEMO PLAN - AREA H 1ST LEVEL PLUMBING DEMO PLAN - AREA K

1ST LEVEL PLUMBING DEMO PLAN - AREA M

1ST LEVEL PLUMBING DEMO PLAN - AREA N

1ST LEVEL PLUMBING DEMO PLAN - AREA P

E-102B 2ND LEVEL POWER PLAN - AREA B FINISH SCHEDULE E-102G 2ND LEVEL POWER PLAN - AREA G 1ST LEVEL - FINISH PLAN - AREA B E-102G.3 2ND LEVEL POWER PLAN - AREA G ALTERNATE #3 1ST LEVEL - FINISH PLAN - AREA B - ALTERNATE #04 E-103B ELECTRICAL ROOF PLAN - AREA B 1ST LEVEL - FINISH PLAN - AREA F - ALTERNATE #04 E-103G ELECTRICAL ROOF PLAN - AREA G 1ST LEVEL - FINISH PLAN - AREA G E-103J ELECTRICAL ROOF PLAN - AREA J 1ST LEVEL - FINISH PLAN - AREA G - ALTERNATE #04 E-103S ELECTRICAL ROOF PLAN - AREA S 1ST LEVEL - FINISH PLAN - AREA H E-201A 1ST LEVEL LIGHTING PLAN - AREA A 1ST LEVEL - FINISH PLAN - AREA J E-201A.2 1ST LEVEL LIGHTING PLAN - AREA A - ALTERNATE 2 1ST LEVEL - FINISH PLAN - AREA K E-201B 1ST LEVEL LIGHTING PLAN - AREA B 1ST LEVEL - FINISH PLAN - AREA L E-201B.2 1ST LEVEL LIGHTING PLAN - AREA B - ALTERNATE 2 1ST LEVEL - FINISH PLAN - AREA N - ALTERNATE #04 E-201C 1ST LEVEL LIGHTING PLAN - AREA C 1ST LEVEL - FINISH PLAN - AREA P - ALTERNATE #04 E-201C.2 1ST LEVEL LIGHTING PLAN - AREA C - ALTERNATE 2 1ST LEVEL - FINISH PLAN - AREA S E-201D 1ST LEVEL LIGHTING PLAN - AREA D 1ST LEVEL - FINISH PLAN - AREA U E-201D.2 1ST LEVEL LIGHTING PLAN - AREA D - ALTERNATE 2 2ND LEVEL - FINISH PLAN - AREA A E-201E.2 1ST LEVEL LIGHTING PLAN - AREA E - ALTERNATE 2 2ND LEVEL - FINISH PLAN - AREA A - ALTERNATE #04 E-201F.2 1ST LEVEL LIGHTING PLAN - AREA F - ALTERNATE 2 2ND LEVEL - FINISH PLAN - AREA B E-201G.2 1ST LEVEL LIGHTING PLAN - AREA G - ALTERNATE 2 2ND LEVEL - FINISH PLAN - AREA B - ALTERNATE #04 E-201G.3 1ST LEVEL LIGHTING PLAN - AREA G - ALTERNATE 3 2ND LEVEL - FINISH PLAN - AREA F - ALTERNATE #04 E-201G.8 1ST LEVEL LIGHTING PLAN - AREA G - ALTERNATE 8 2ND LEVEL - FINISH PLAN - AREA G E-201H 1ST LEVEL LIGHTING PLAN - AREA H 2ND LEVEL - FINISH PLAN - AREA G - ALTERNATE #04 E-201J 1ST LEVEL LIGHTING PLAN - AREA J 2ND LEVEL - FINISH PLAN - AREA N - ALTERNATE #04

E-101U

E-102A

E-201K

E-201L

E-201L.2

E-201M.2

E-201N.2

E-201P.2

E-201S

E-202A.2

E-202B

E-202C

E-202F.2

E-202G.2

E-202G.3

E-202N.2

E-202H

E-502

E-601

E-602

E-701

E-702

E-703

PS-101 PD101.1

PD101B

PD101D

PD101E

PD101F

PD101G

PD101H

PD101K

PD101M

PD101N PD101P

E-202B.2

ARCHITECTURE

2ND LEVEL - FLOOR PLAN - AREA G - ALTERNATE #05

2ND LEVEL - FLOOR PLAN - AREA G - ALTERNATE #03

2ND LEVEL - FLOOR PLAN - AREA N - ALTERNATE #05

1ST LEVEL - CEILING PLAN - AREA A - ALTERNATE #02

1ST LEVEL - CEILING PLAN - AREA B - ALTERNATE #02

1ST LEVEL - CEILING PLAN - AREA C - ALTERNATE #02

1ST LEVEL - CEILING PLAN - AREA D - ALTERNATE #02

1ST LEVEL - CEILING PLAN - AREA E - ALTERNATE #02

1ST LEVEL - CEILING PLAN - AREA F - ALTERNATE #02

1ST LEVEL - CEILING PLAN - AREA G - ALTERNATE #02

1ST LEVEL - CEILING PLAN - AREA L - ALTERNATE #02

1ST LEVEL - CEILING PLAN - AREA M - ALTERNATE #02

1ST LEVEL - CEILING PLAN - AREA N - ALTERNATE #02

1ST LEVEL - CEILING PLAN - AREA P - ALTERNATE #02

2ND LEVEL - CEILING PLAN - AREA A - ALTERNATE #02

2ND LEVEL - CEILING PLAN - AREA B - ALTERNATE #02

2ND LEVEL - CEILING PLAN - AREA F - ALTERNATE #02

2ND LEVEL - CEILING PLAN - AREA G - ALTERNATE #02

2ND LEVEL - CEILING PLAN - AREA N - ALTERNATE #02

2ND LEVEL - FLOOR PLAN - AREA G

2ND LEVEL - CLEARSTORY PLAN - AREA J

2ND LEVEL - CLEARSTORY PLAN - AREA S

1ST LEVEL - CEILING PLAN - AREA B

1ST LEVEL - CEILING PLAN - AREA H

1ST LEVEL - CEILING PLAN - AREA J

1ST LEVEL - CEILING PLAN - AREA K

1ST LEVEL - CEILING PLAN - AREA L

1ST LEVEL - CEILING PLAN - AREA S

2ND LEVEL - CEILING PLAN - AREA B

NEW ROOF PLAN - COMPOSITE

ROOF PLAN - AREAS H, J AND K

ROOF PLAN - AREAS M, N, & P

ENLARGED - FLOOR PLANS

ENLARGED - FLOOR PLANS

ENLARGED - FLOOR PLANS

ENLARGED STAIR DETAILS

ELEVATIONS - EXTERIOR

ELEVATIONS - EXTERIOR

CASEWORK ELEVATIONS

CASEWORK ELEVATIONS

CASEWORK ELEVATIONS

ELEVATIONS - INTERIOR

ELEVATIONS - INTERIOR

SECTIONS - BUILDING

SECTIONS - WALL SECTIONS - WALL

SECTIONS - WALL

SECTIONS - WALL

SECTIONS - WALL

SECTIONS - WALL

SECTIONS - WALL

SECTIONS - WALL

DETAILS - PLAN EXTERIOR

DETAILS - PLAN EXTERIOR

DETAILS - PLAN INTERIOR

DETAILS - WALL SECTIONS

DETAILS - WALL SECTIONS

DOOR PANEL AND FRAME TYPES

WINDOW AND LOUVER TYPES

WINDOW AND LOUVER TYPES

DETAILS - DOOR AND WINDOW- EXTERIOR

DETAILS - DOOR AND WINDOW- INTERIOR

PARTITION TYPES

PARTITION TYPES

ENLARGED STAIR PLANS, SECTIONS & DETAILS

ELEVATOR PLANS, SECTION & DETAILS

ENLARGED - RESTROOM ELEVATIONS

ENLARGED - RESTROOM ELEVATIONS

ENLARGED - RESTROOM ELEVATIONS

ENLARGED - RESTROOM ELEVATIONS

ENLARGED - RESTROOM ELEVATIONS

ENLARGED - COMP GYM STRIPPING PLAN

CASEWORK ELEVATIONS AND DETAILS

CEILING DETAILS

ROOF PLAN - AREA B

ROOF PLAN - AREA S

DETAILS - ROOF

ROOF DETAILS

A-102G.1

A-102G.2

A-102N.1

A-102J

A-102S

A-201A.1

A-201B

A-201B.1

A-201C.1

A-201D.1

A-201E.1

A-201F.1

A-201G.1

A-201H

A-201J

A-201K

A-201L

A-201L.1

A-201M.1

A-201N.1

A-201P.1

A-201S

A-202A

A-202B

A-202B.1

A-202F.1

A-202G.1

A-202N.1

A-203

A-301

A-301B

A-301H

A-301M

A-301S

A-322

A-323

A-401

A-402

A-403

A-420

A-421

A-431

A-441

A-442

A-443

A-444

A-445

A-451

A-501

A-502

A-511

A-512

A-513

A-515

A-527

A-528

A-601

A-621

A-623

A-624

A-625

A-626

A-627

A-628

A-701

A-702

A-710

A-721

A-722

A-801A

A-801B

A-804

A-810

A-811

A-831

A-832

AF100

AF101B

AF101B.1

AF101F.1

AF101G

AF101G.1

AF101H

AF101J

AF101K

AF101L

AF101N.1

AF101P.1

AF101S

AF101U

AF102A

AF102A.1

AF102B

AF102B.1

AF102F.1

AF102G

AF102G.1

AF102N.1

INTERIOR FINISHES

	TECHNOLOGY
T-001	TECHNOLOGY SYSTEM NOTES AND LEGENDS 1ST LEVEL TECHNOLOGY DEMO PLAN - AREA J
TD-101J	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA J 1ST LEVEL FIRE ALARM DEMO PLAN - AREA K
TD-101K	
TF-101A.1	1ST LEVEL FIRE ALARM PLAN - AREA A ATLERNATE 2
TF-101B	1ST LEVEL FIRE ALARM PLAN - AREA B
TF-101B.1	1ST LEVEL FIRE ALARM PLAN - AREA B ATLERNATE 2
TF-101C.1	1ST LEVEL FIRE ALARM PLAN - AREA C ATLERNATE 2
TF-101D.1	1ST LEVEL FIRE ALARM PLAN - AREA D ATLERNATE 2
TF-101E.1	1ST LEVEL FIRE ALARM PLAN - AREA E ATLERNATE 2
TF-101F.1	1ST LEVEL FIRE ALARM PLAN - AREA F ATLERNATE 2
TF-101G	1ST LEVEL FIRE ALARM PLAN - AREA G
TF-101G.1	1ST LEVEL FIRE ALARM PLAN - AREA G ATLERNATE 2
TF-101G.2	1ST LEVEL FIRE ALARM PLAN - AREA G ATLERNATE 3
TF-101J	1ST LEVEL FIRE ALARM PLAN - AREA J
TF-101K	1ST LEVEL FIRE ALARM PLAN - AREA K
TF-101K.2	1ST LEVEL FIRE ALARM PLAN - AREA K ATLERNATE 2
TF-101L	1ST LEVEL FIRE ALARM PLAN - AREA L
TF-101L.1	1ST I EVEL FIRE ALARM PLAN - AREA LATI FRNATE 2
TF-101M.1	1ST LEVEL FIRE ALARM PLAN - AREA M ATLERNATE 2
TF-101N.1	1ST LEVEL FIRE ALARM PLAN - AREA N ATLERNATE 2
TF-101P.1	1ST LEVEL FIRE ALARM PLAN - AREA P ATLERNATE 2
TF-101S	1ST LEVEL FIRE ALARM PLAN - AREA S
TF-1013	2ND LEVEL FIRE ALARM PLAN - AREA A ATLERNATE 2
TF-102A.1	2ND LEVEL FIRE ALARM PLAN - AREA B
	2ND LEVEL FIRE ALARM PLAN - AREA B 2ND LEVEL FIRE ALARM PLAN - AREA B ATLERNATE 2
TF-102B.1	
TF-102C.1	2ND LEVEL FIRE ALARM PLAN - AREA C ATLERNATE 2
TF-102D.1	2ND LEVEL FIRE ALARM PLAN - AREA D ATLERNATE 2
TF-102F.1	2ND LEVEL FIRE ALARM PLAN - AREA F ATLERNATE 2
TF-102G	2ND LEVEL FIRE ALARM PLAN - AREA G
TF-102G.1	2ND LEVEL FIRE ALARM PLAN - AREA G ATLERNATE 2
TF-102G.2	2ND LEVEL FIRE ALARM PLAN - AREA G ATLERNATE 3
TE-102N.1	2ND LEVEL FIRE ALARM PLAN - AREA N ATLERNATE 2
TN-101A	1ST LEVEL TECHNOLOGY PLAN - AREA A
TN-101B-	1ST LEVEL TECHNOLOGY PLAN - AREA B - ALTERNATE 2
TN-101E.2	1ST LEVEL TECHNOLOGY PLAN - AREA E - ALTERNATE 5
TN-101G	1ST LEVEL TECHNOLOGY PLAN - AREA G
TN-101G.1	1ST LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 2
TN-101G.1	1ST LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 3
TN-101G.2 TN-101G.3	1ST LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 5
TN-101G.3	1ST LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE S
TN-101K	1ST LEVEL TECHNOLOGY PLAN - AREA K
TN-101L	1ST LEVEL TECHNOLOGY PLAN - AREA L
TN-101L.1	1ST LEVEL TECHNOLOGY PLAN - AREA L - ALTERNATE 2
TN-101P.2	1ST LEVEL TECHNOLOGY PLAN - AREA P - ALTERNATE 5
TN-101S	1ST LEVEL TECHNOLOGY PLAN - AREA S
TN-101T	1ST LEVEL TECHNOLOGY PLAN - AREA T
TN-102A.1	2ND LEVEL TECHNOLOGY PLAN - AREA A - ALTERNATE 2
TN-102A.2	2ND LEVEL TECHNOLOGY PLAN - AREA A - ALTERNATE 5
TN-102B	2ND LEVEL TECHNOLOGY PLAN - AREA B
	2ND LEVEL TECHNOLOGY PLAN - AREA B - ALTERNATE 2
TN-102B.1	
TN-102B.1 TN-102F.2	2ND LEVEL TECHNOLOGY PLAN - AREA F - ALTERNATE 5
the contract production and	2ND LEVEL TECHNOLOGY PLAN - AREA F - ALTERNATE 5 2ND LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 2
TN-102F.2	
TN-102F.2 TN-102G.1	2ND LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 2

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11 Greenway Plaza, 22nd Floor

Houston, TX 77046

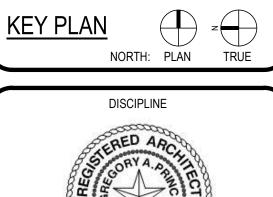
713-965-0608 P

713-961-4571 F

TX Firm: F-1608

DIG ENGINEERS

LANDSCAPE GREENSCAPE ASSOCIATES



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	DATE PROJECT NUMBER 12/18/2024 220537		
DR	AWING HISTORY		
No.	Description		Date
1	Addendum #1		1/9/2025
	ISSUE FOR	PROPOSAL	
BU	ILDING NUMBER		n/a

DRAWING INDEX

PD101R 1ST LEVEL PLUMBING DEMO PLAN - AREA R PD102.1 2ND LEVEL PLUMBING DEMO PLAN - ALTERNATE 2 2ND LEVEL PLUMBING DEMO PLAN - AREA A PD102A 2ND LEVEL PLUMBING DEMO PLAN - AREA B PD102B PD102F 2ND LEVEL PLUMBING DEMO PLAN - AREA F PD102G 2ND LEVEL PLUMBING DEMO PLAN - AREA G PD102H 2ND LEVEL PLUMBING DEMO PLAN - AREA H PU-101A 1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA A PU-101B 1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA B 1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA F PU-101F PU-101G 1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA G PU-101H 1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA H

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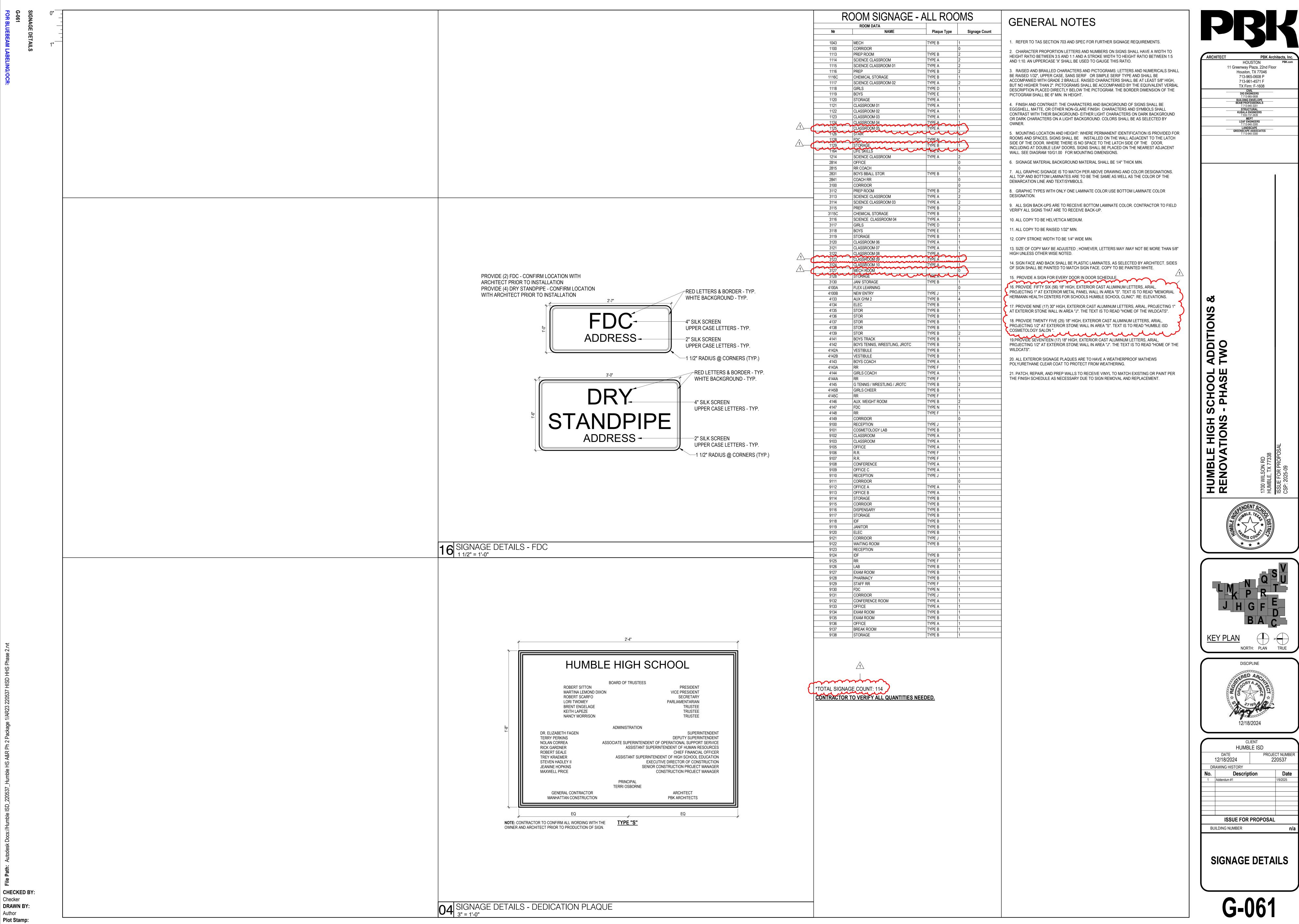
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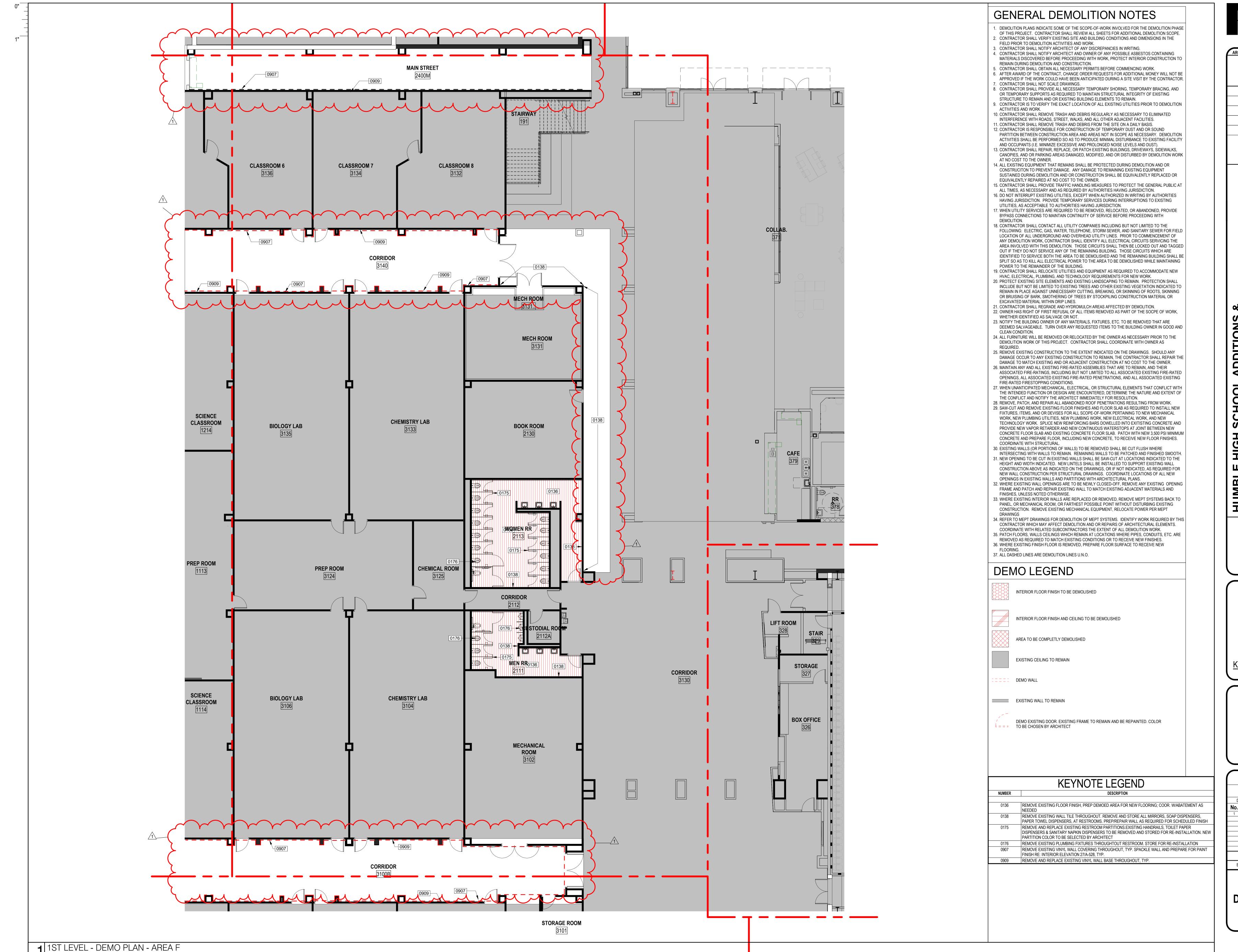
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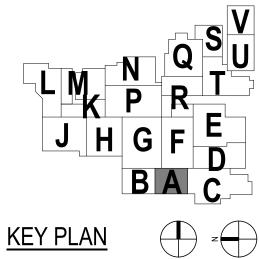
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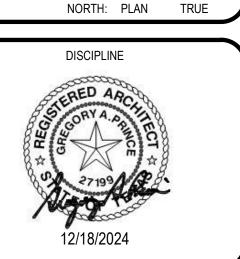
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MEPT
LEAF ENGINEERS
T 713-940-3300
LANDSCAPE
GREENSCAPE ASSOCIATES
T 713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS RENOVATIONS - PHASE TWO

TRING COUNTY SCHOOL DISTRIC

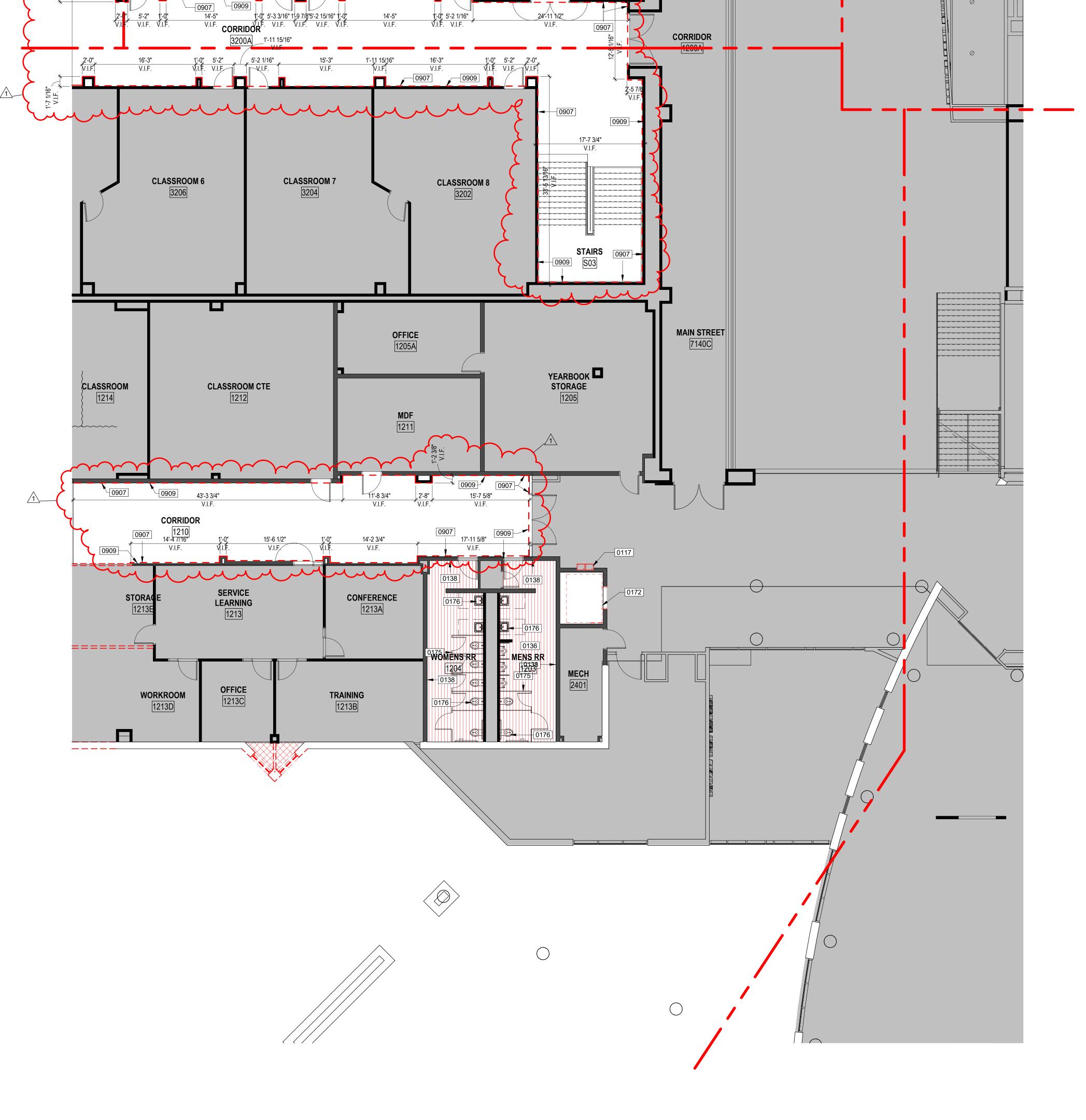




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DATE PROJECT NUMBE 12/18/2024 220537			
DF	RAWING HISTORY		
No.	Description Date		Date
1	Addendum #1		1/9/2025
	ISSUE FOR	PROPOSAL	
BUILDING NUMBER n/a			n/a
	4071	-	

1ST LEVEL -DEMOLITION FLOOR PLAN - AREA F

AD101F



GENERAL DEMOLITION NOTES

- DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHA OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE. 2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE
- FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK. B. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING. I. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING
- MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- 5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE
- APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR. . CONTRACTOR SHALL NOT SCALE DRAWINGS.

8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND

- OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN. 9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION
- ACTIVITIES AND WORK. 10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
- 11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS. 12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND
- PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
- 13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER. 14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR
- CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR
- EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER. 15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT
- ALL TIMES, AS NECESSARY AND AS REQURED BY AUTHORITIES HAVING JURISDICTION. 16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING
- UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. 17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH
- 18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL B
- 19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.

POWER TO THE REMAINDER OF THE BUILDING.

SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING

- 20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES. 21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
- 22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT. 23. NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE
- DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD AND CLEAN CONDITION. 24. ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE
- DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS
- 25. REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION AT NO COST TO THE OWNER.

26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR

- ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
- 27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.

28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.

- 29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPLICE NEW REINFORCING BARS DOWELLED INTO EXITISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
- 30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH 31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW
- OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS. 32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE
- 33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT
- 34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THI CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
- 35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES. 36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW
- 37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

INTERIOR FLOOR FINISH TO BE DEMOLISHED

INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED

AREA TO BE COMPLETLY DEMOLISHED

EXISTING CEILING TO REMAIN

EXISTING WALL TO REMAIN

_ _ _ DEMO WALL

DEMO EXISTING DOOR. EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR TO BE CHOSEN BY ARCHITECT

	KEYNOTE LEGEND		
NUMBER	DESCRIPTION		
0117	DEMOLISH EXISTING WATER FOUNTAINS AND CAP PLUMBING CONNECTIONS; RE: MEPT		
0136	REMOVE EXISTING FLOOR FINISH, PREP DEMOED AREA FOR NEW FLOORING; COOR. W/ABATEMENT AS NEEDED		
0138	REMOVE EXISTING WALL TILE THROUGHOUT. REMOVE AND STORE ALL MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS, AT RESTROOMS. PREP/REPAIR WALL AS REQUIRED FOR SCHEDULED FINISH		
0172	REMOVE AND REPLACE EXISTING ELEVATOR MACHINE CAB, MOTOR, ELECTRICAL WIRING AND ALL OTHER EXISTING ELEVATOR COMPONENTS		
0175	REMOVE AND REPLACE EXISTING RESTROOM PARTITIONS.EXISTING HANDRAILS, TOILET PAPER DISPENSERS & SANITARY NAPKIN DISPENSERS TO BE REMOVED AND STORED FOR RE-INSTALLATION. NEW PARTITION COLOR TO BE SELECTED BY ARCHITECT		
0176	REMOVE EXISTING PLUMBING FIXTURES THROUGHTOUT RESTROOM. STORE FOR RE-INSTALLATION		

REMOVE EXISTING VINYL WALL COVERING THROUGHOUT, TYP. SPACKLE WALL AND PREPARE FOR PAINT FINISH RE: INTERIOR ELEVATION 27/A-528, TYP. REMOVE AND REPLACE EXISTING VINYL WALL BASE THROUGHOUT, TYP.

2ND LEVEL -**DEMOLITION FLOOR** PLAN - AREA A

ISSUE FOR PROPOSAL

11 Greenway Plaza, 22nd Floor

713-965-0608 P

713-961-4571 F

TX Firm: F-1608

DIG ENGINEERS

Houston, TX 77046

KEY PLAN

NORTH: PLAN TRUE

DISCIPLINE

HUMBLE ISD

Description

12/18/2024

PROJECT NUMBER

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06 2ND LEVEL - DEMO PLAN - AREA A

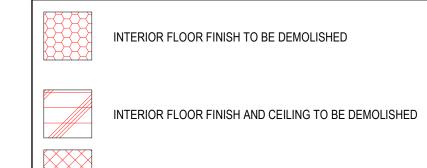
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- 12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY
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- 27. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION. 28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.

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- 30. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH 31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS. COORDINATE LOCATIONS OF ALL NEW
- OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS. 32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
- 33. WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT
- 34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THI CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
- 35. PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES. 36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW
- 37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND



AREA TO BE COMPLETLY DEMOLISHED

EXISTING CEILING TO REMAIN _ _ _ DEMO WALL

EXISTING WALL TO REMAIN

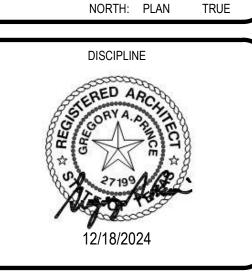
DEMO EXISTING DOOR. EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR = = = TO BE CHOSEN BY ARCHITECT

KEYNOTE LEGEND				
NUMBER	DESCRIPTION			
0132	DEMOLISH EXISTING STAIR			
0164	DEMOLISH EXISTING PORTION OF MASONRY WALL FOR INSTALL OF NEW DOOR			
0165	REMOVE EXISTING ROOF AND SUPPORTING STRUCTURE: RE: STRUCT DWGS REMOVE EXISTING VINYL WALL COVERING THROUGHOUT, TYP. SPACKLE WALL AND			
0907	REMOVE EXISTING VINYL WALL COVERING THROUGHOUT, TYP. SPACKLE WALL AND			
	PREPARE FOR PAINT FINISH RE: INTERIOR ELEVATION 27/A-528, TYP.			
0909	REMOVE AND REPLACE EXISTING VINYL WALL BASE THROUGHOUT, TYP.			
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KEY PLAN



HUMBLE ISD PROJECT NUMBER 12/18/2024 DRAWING HISTORY Date Description **ISSUE FOR PROPOSAL**

2ND LEVEL -**DEMOLITION FLOOR** PLAN - AREA B

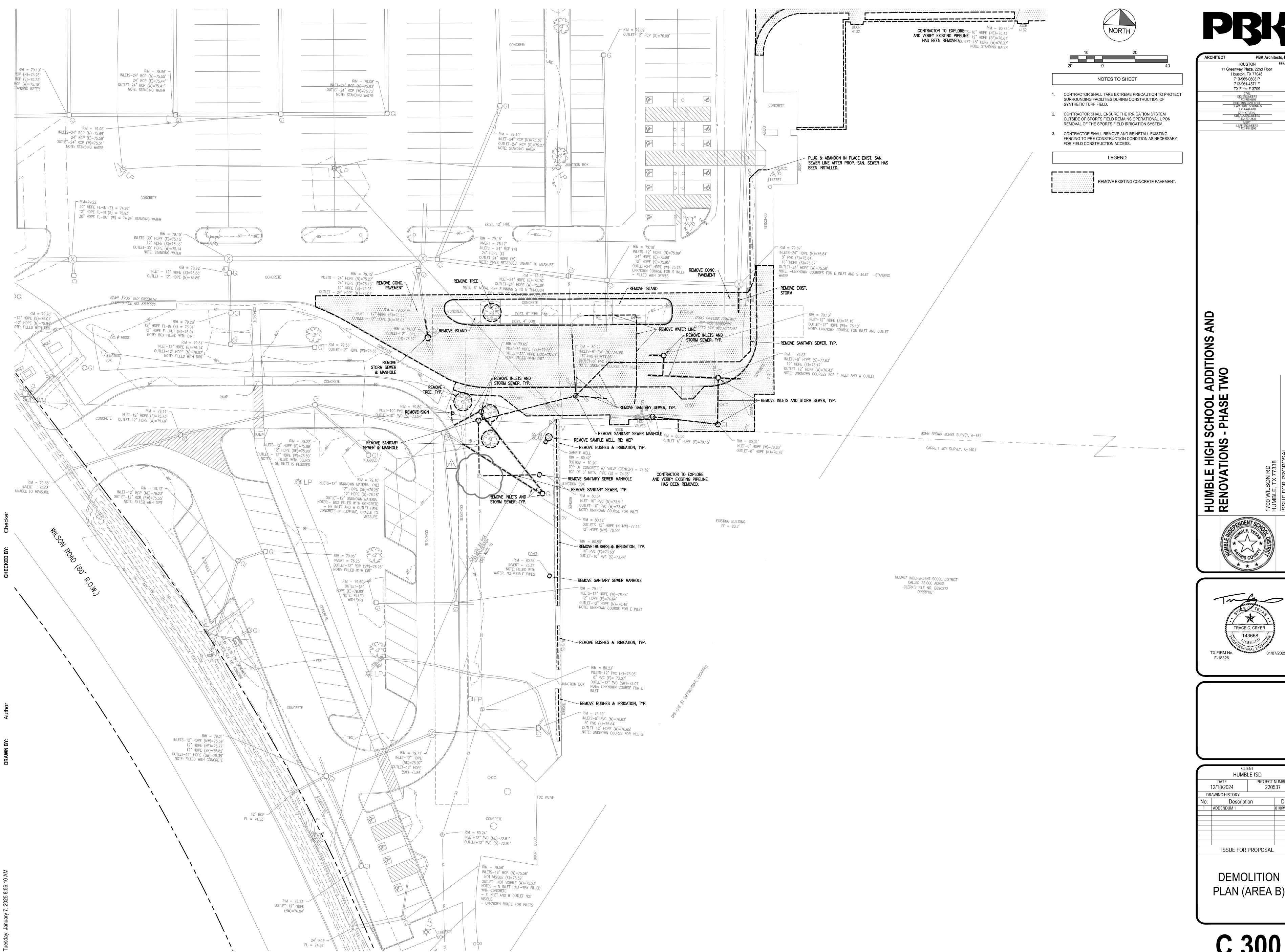
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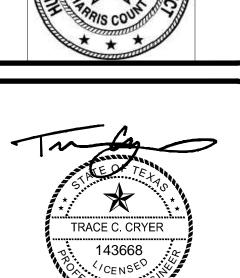
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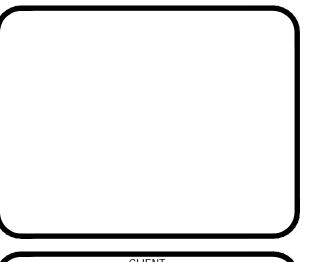
06 2ND LEVEL - DEMO PLAN - AREA B

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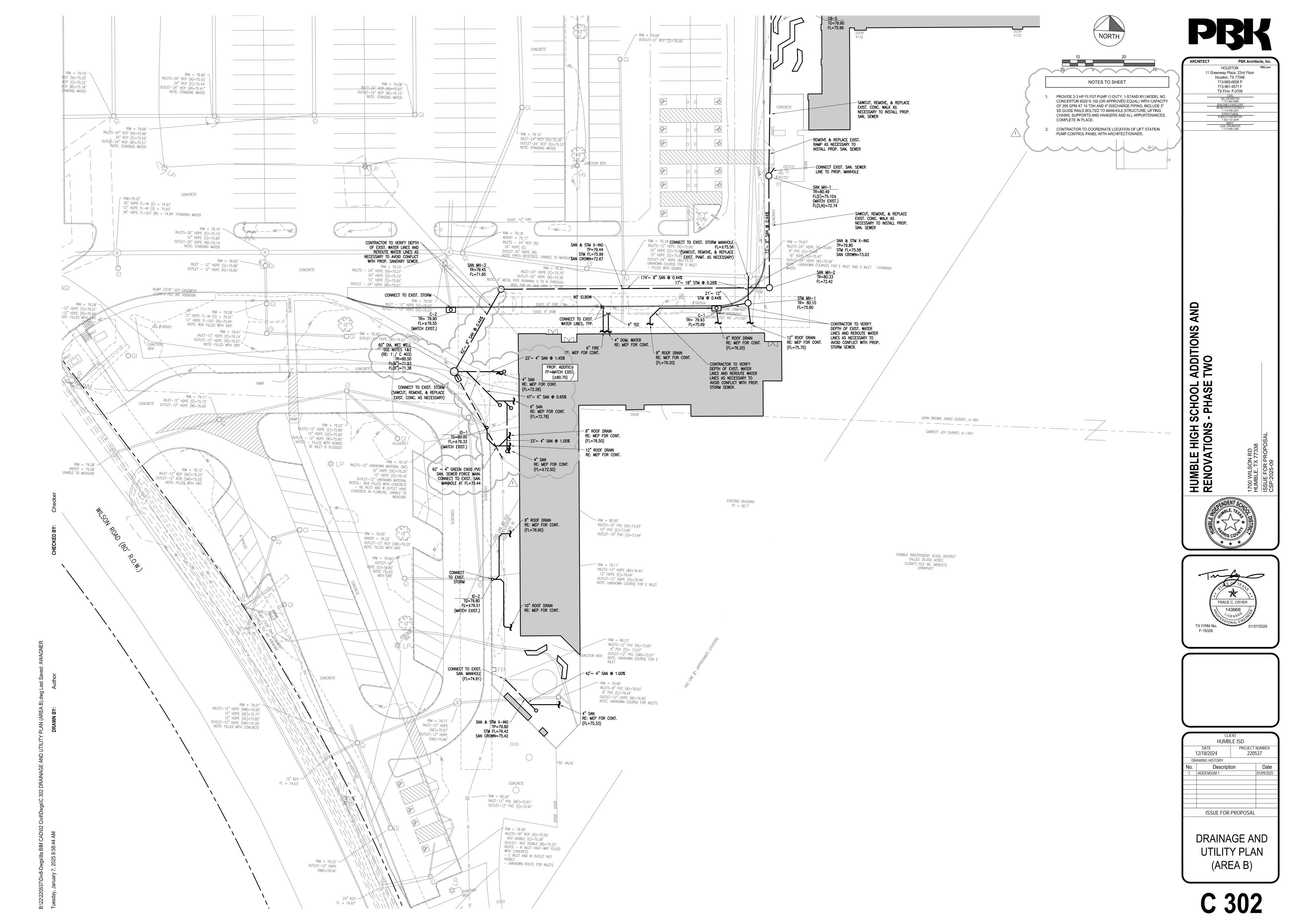
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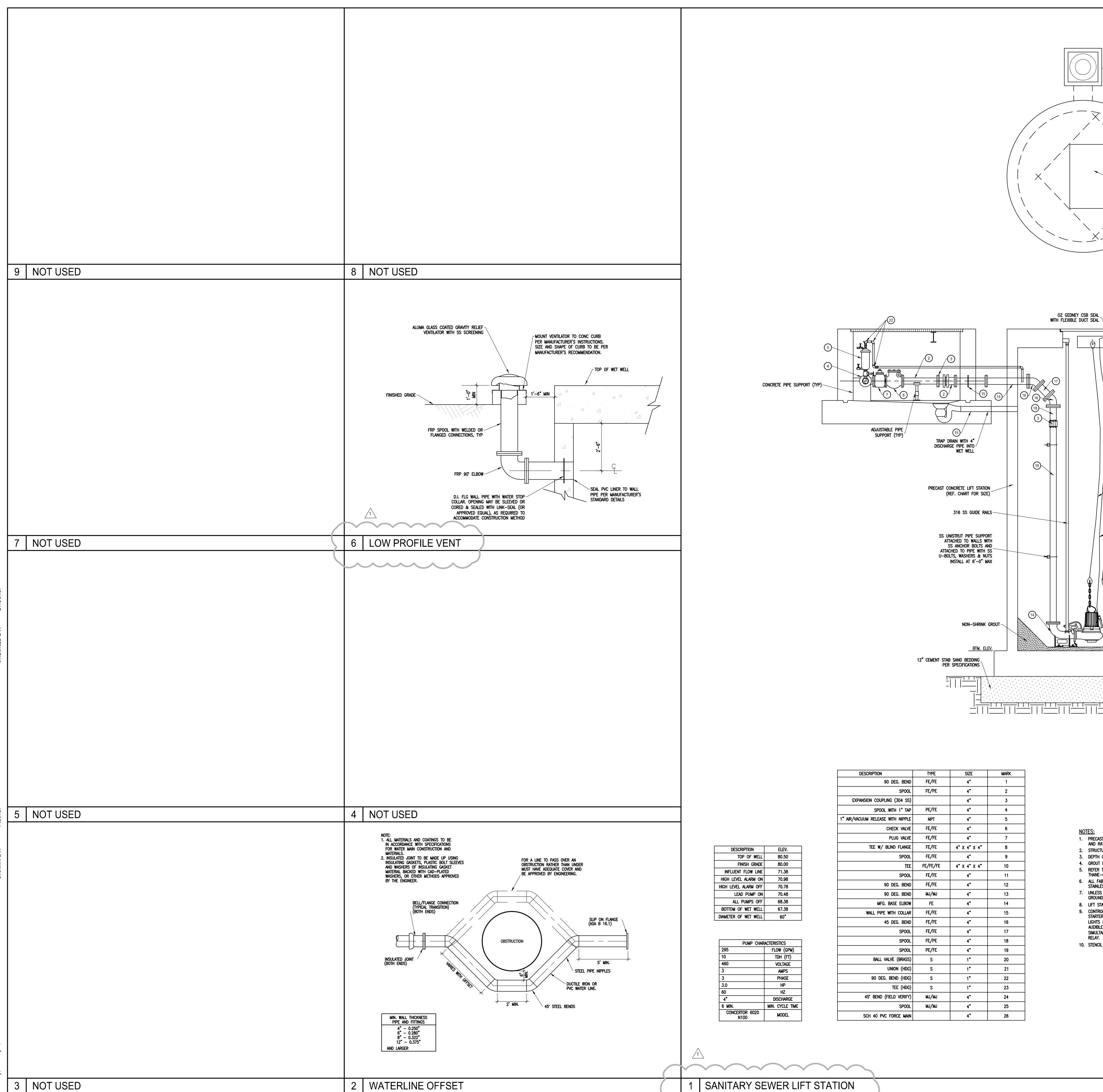






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AND ADDITIONS TWO SCHOOI - PHASE HUMBLE HIGH S RENOVATIONS

> TRACE C. CRYER 143668

TX FIRM No. F-18326

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DETAILS			

1. PRECAST CONCRETE LIFT STATION SHALL BE MADE OF CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4,500 PSI AT 28 DAYS

6. ALL FABRICATED ITEMS SHALL HOT DIPPED GALVANIZED AFTER FABRICATION. ALL NUTS, WASHERS AND MISC. HARDWARE SHALL BE

9. CONTROL PANEL SHALL BE MANUFACTURED BY A UL 508 FACILITY AND INCLUDE THE FOLLOWING COMPONENTS: NEMA RATED STARTERS, HEAVY DUTY MAGNETIC BREAKERS, PHASE MONITOR, 2KVA TRANSFORMER WITH A GFCI CONVENIENCE RECEPTICAL, RUN

LIGHTS (PUSH TO TEST), ALARM LIGHTS, OVERLOAD LIGHTS WITH RESETS, HOA SWITCHES, RUN TIMERS, RED ALARM BEACON, AUDIBLE HORN, 100 WATT STRIP HEATER WITH THERMOSTAT, TIME DELAY RELAYS TO PREVENT PUMPS FROM STARTING SIMULTANEOUSLY, COMBINATION LIGHTNING/TVSS SURGE ARRESTOR, RACO "GUARD—IT" TELEPHONE DIALER, AND ALTERNATOR RELAY.

5. REFER TO SPECIFICATIONS FOR INTERIOR LINER MATERIALS. AS A MINIMUM, MANHOLE INTERIOR TO BE COATED WITH THANE—COAT OR PRE—ARRROVED EQUIVALENT, UNLESS NOTED OTHERWISE.

7. UNLESS OTHERWISE NOTED ALL WET WELL AND ABOVE GROUND PIPING SHALL BE PAINTED DUCTILE IRON PIPE. ALL BELOW

8. LIFT STATION EQUIPMENT SHALL BE SUPPLIED AS A PACKAGE (COMPLETE WITH PUMPS AND CONTROLS)

10. STENCIL "WARNING CONFINED SPACE ENTRY" IN RED PAINT ON UNDERSIDE OF ACCESS COVER.

AND RATED FOR H-20 LOADING.

4. GROUT INSIDE AND OUTSIDE OF SECTIONS.

GROUND PIPING SHALL BE GREEN C900 PVC

2. STRUCTURAL REINFORCEMENT SHALL MEET ASTM C-478.

3. DEPTH OF LIFT STATION SHALL DETERMINE THE NUMBER OF RISER SECTIONS.

WET WELL VENTING RE: THIS SHEET

========

304 SS CABLE AND

PER PUMP MANUFACTURER'S RECOMMENDATION

POWER CABLE PER PUMP MANUFACTURER

INFLUENT SANITARY SEWER REF. PLANS FOR SIZE

300 PSF ALUMINUM LOCKABLE HATCH COVER PER PUMP

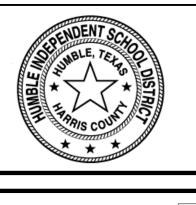
MANUFACTURER'S REQUIREMENTS WITH SS HARDWARE & HATCHNET SYSTEM

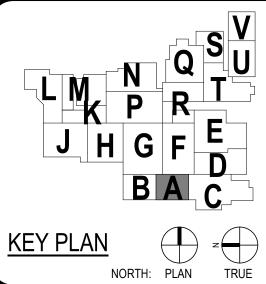
DISCIPLINES AND OR MANUFACTURERS

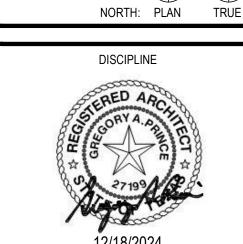
- . DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT
 - 2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
 - 3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY
- 4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK 5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT
- ARE THE SAME OR SIMILAR 6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT
- THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK . DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG
- 8. REFER TO PARTITION TYPES ON A801 SERIES SHEETS 9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION
- 10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE S5 U.N.O.
- 11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE 12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE 13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
- 14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS 15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT 16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB
- 17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
 18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR
- TO INSTALLATION OF FLOOR FINISHES 19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
- 20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O. 21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
- 22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER
- COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED 23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR
- 24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK
- 25. PROVIDE PLYWOOD IN METAL STUD WALL PARTITION FOR SUPPORT OF ALL TV LOCATIONS.

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HUMBLE HIGH SCHORENOVATIONS - PHA







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1ST LEVEL - FLOOR PLAN - AREA A -**ALTERNATE #05**

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CLASSROOM 04

B-13

MECH 1043

ALTERNATE #05

CLASSROOM 01 1121

STORAGE 1120

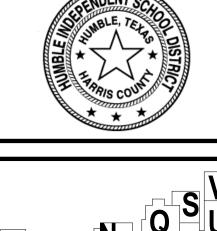
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CLASSROOM 02

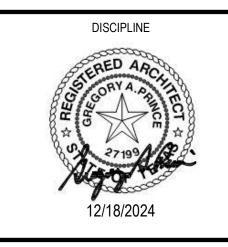
11 Greenway Plaza, 22nd Floor Houston, TX 77046 713-965-0608 P 713-961-4571 F TX Firm: F-1608 DIG ENGINEERS T 832-737-2639

MEPT

LEAF ENGINEERS
T 713-940-3300



NORTH: PLAN TRUE



SECRETARY

CLASSROOM 05

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HUMBLE ISD 12/18/2024 **ISSUE FOR PROPOSAL**

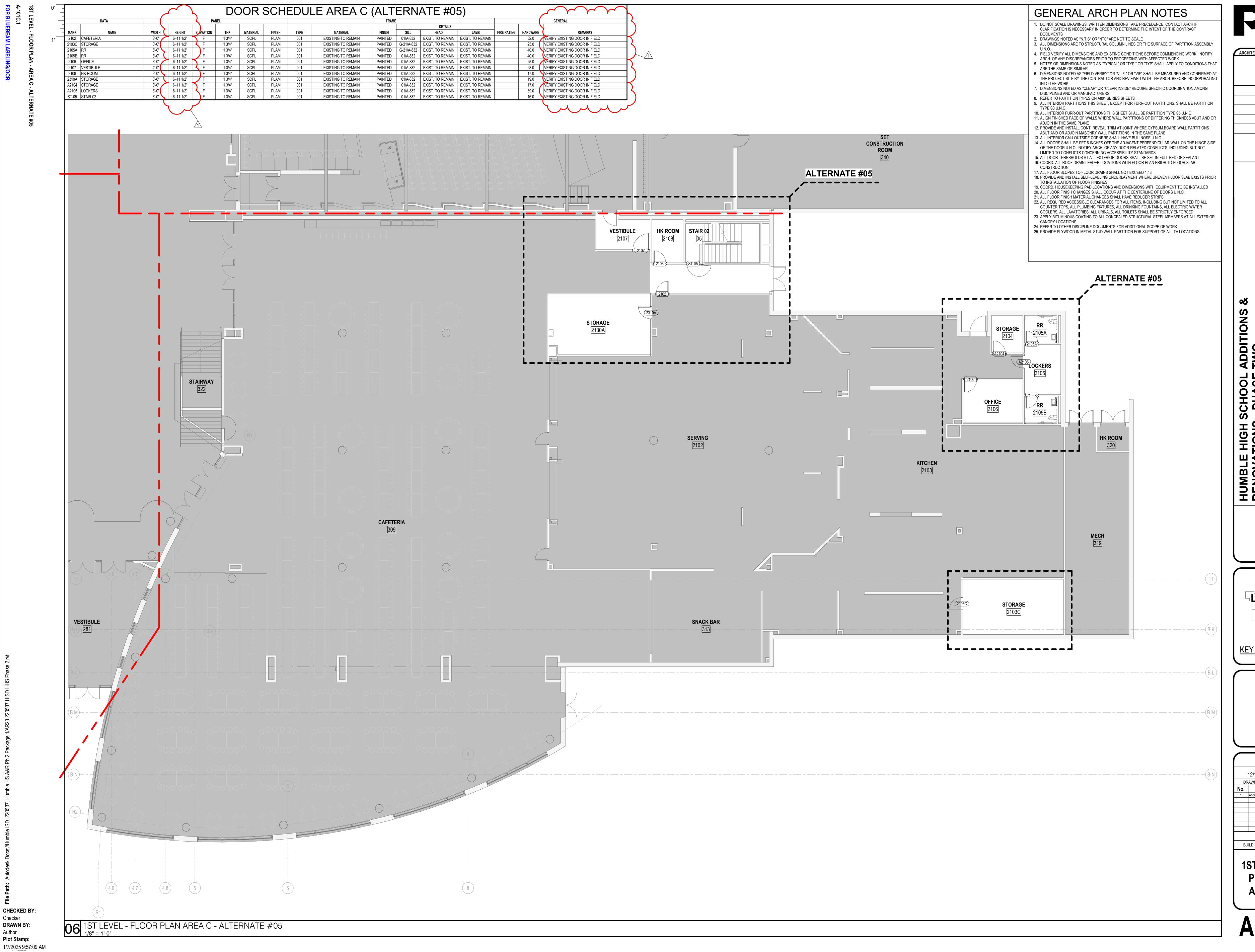
1ST LEVEL - FLOOR PLAN - AREA B -**ALTERNATE #05**

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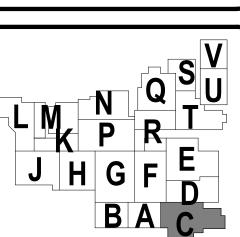
06 1ST LEVEL - FLOOR PLAN AREA B - ALTERNATE #05

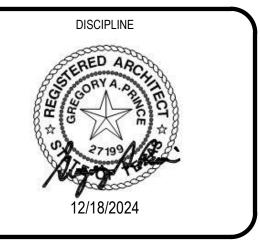




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NORTH: PLAN TRUE

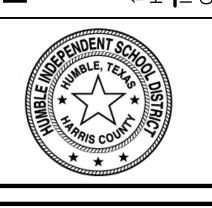
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PLAN - AREA C -**ALTERNATE #05**

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- 4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY
- 6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT

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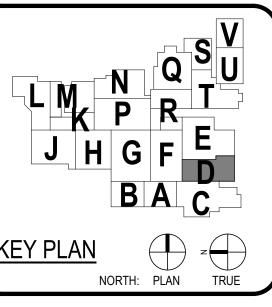
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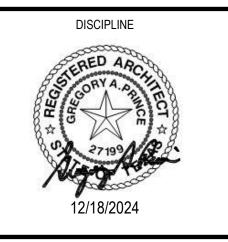
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TX Firm: F-1608

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BEAM PROFESSIONALS

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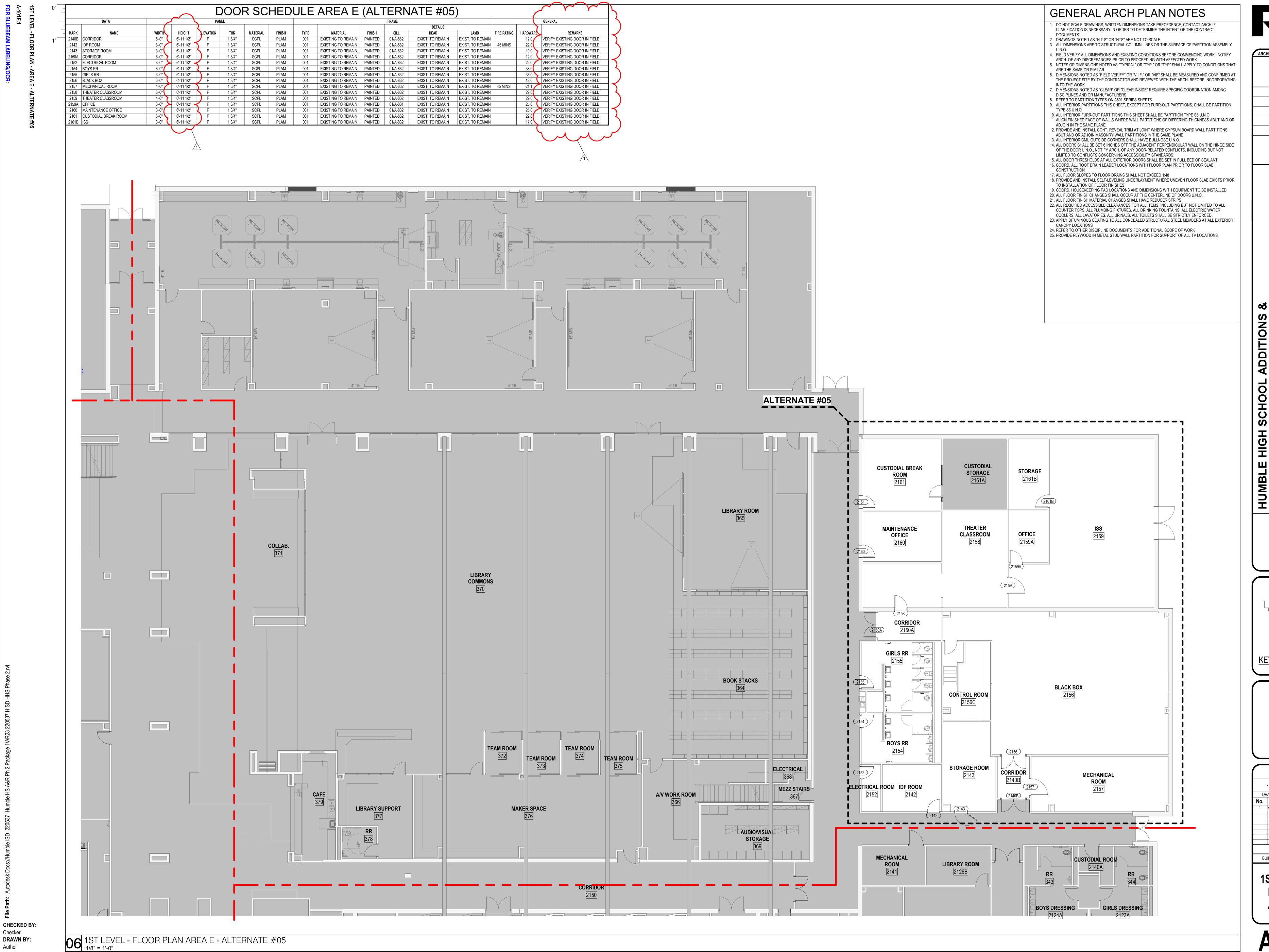
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1ST LEVEL - FLOOR PLAN - AREA D -**ALTERNATE #05**

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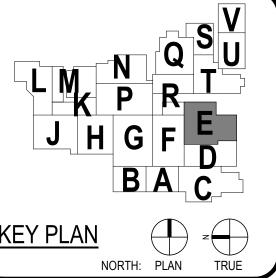
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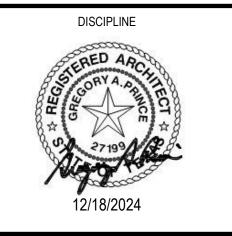
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HUMBLE HIGH RENOVATIONS

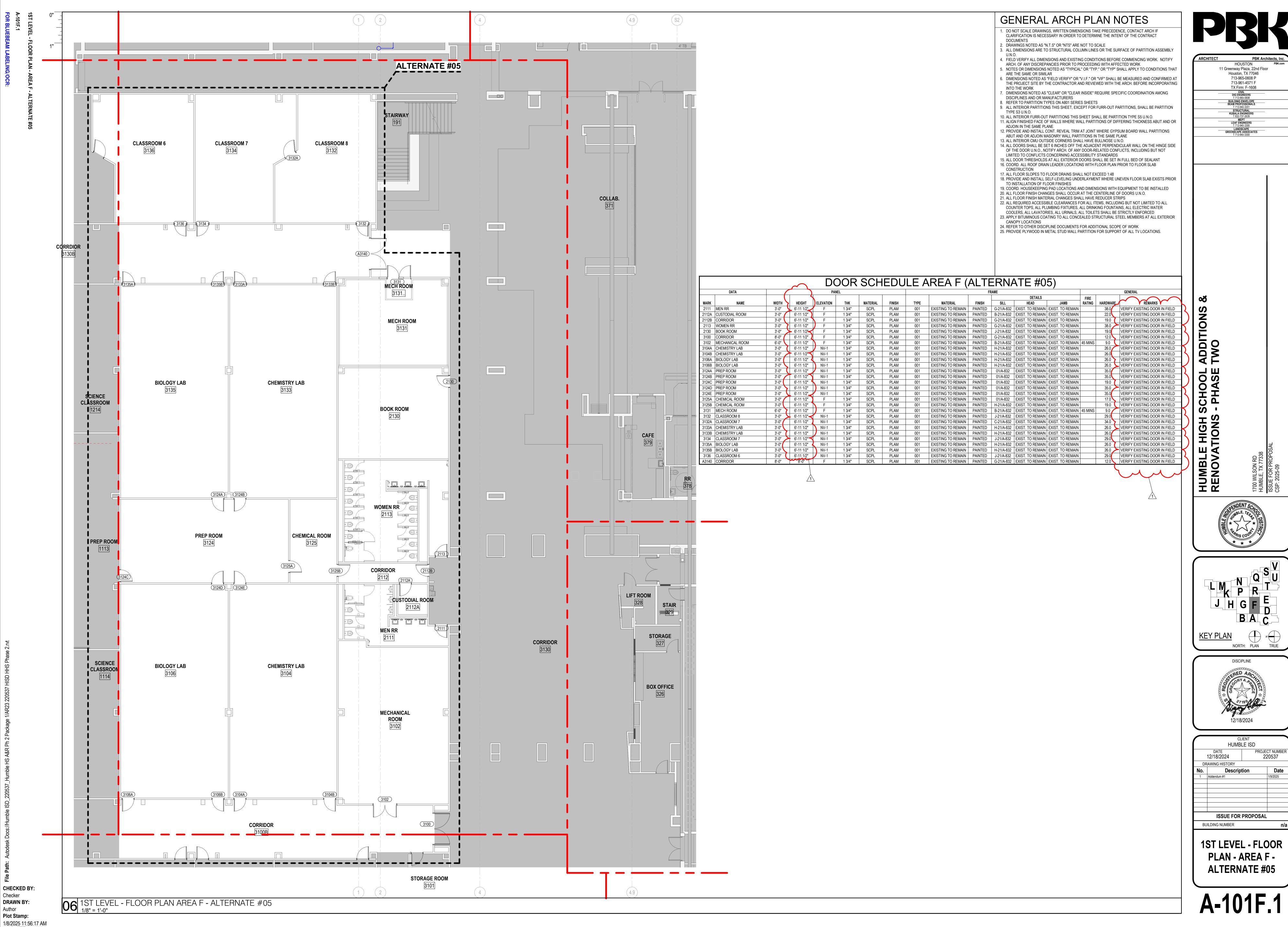


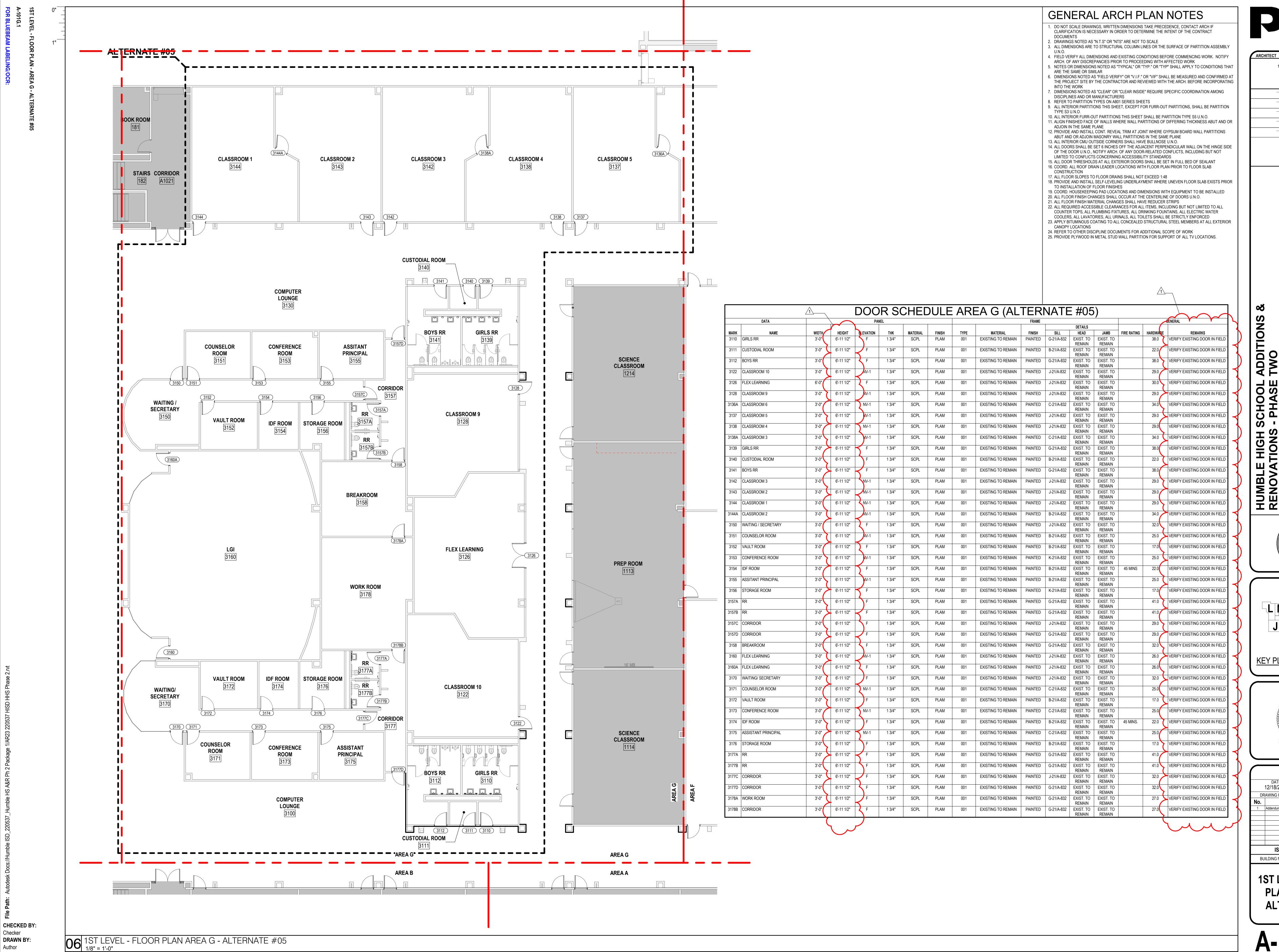


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1ST LEVEL - FLOOR PLAN - AREA E -**ALTERNATE #05**

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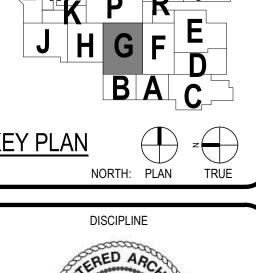
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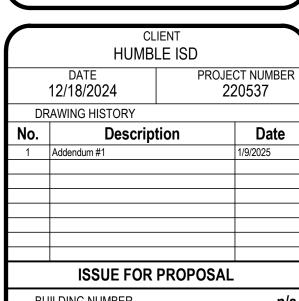
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1ST LEVEL - FLOOR PLAN - AREA G -**ALTERNATE #05**

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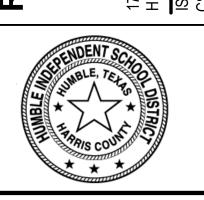
- . DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT
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- 17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48 18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
- 19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED 20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
- 21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS 22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER
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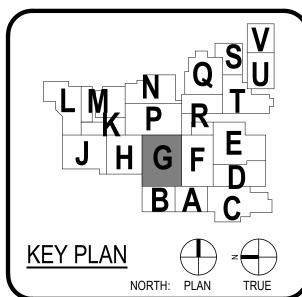
KEYNOTE LEGEND

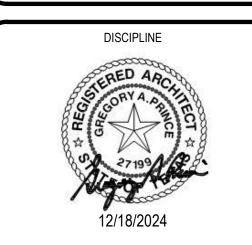
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OL SE HUMBLE HIGH SCHORENOVATIONS - PHA





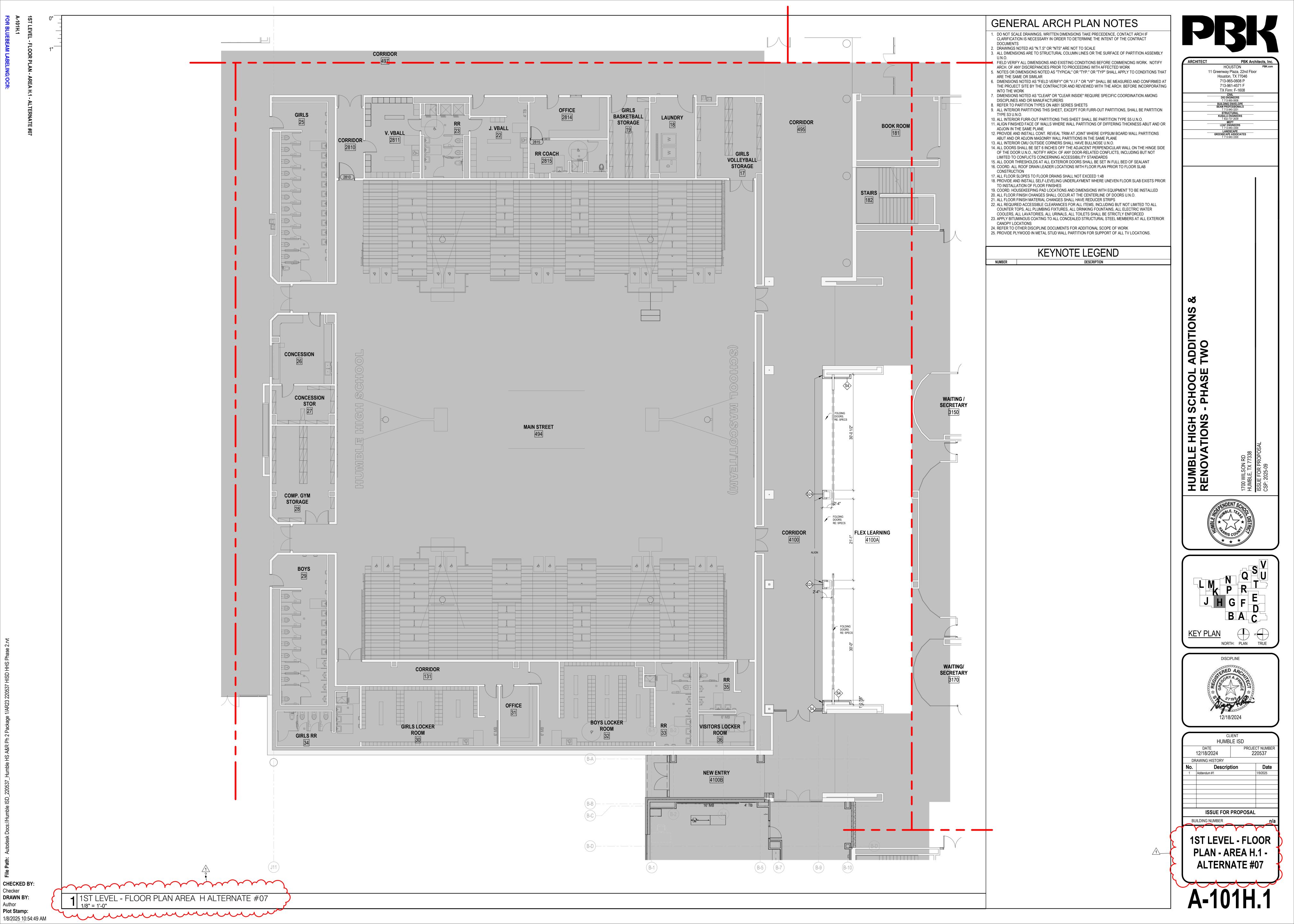


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1ST LEVEL - FLOOR PLAN - AREA G -**ALTERNATE #03**

A-101G.2

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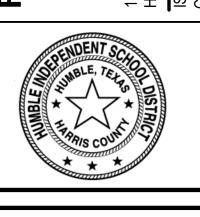
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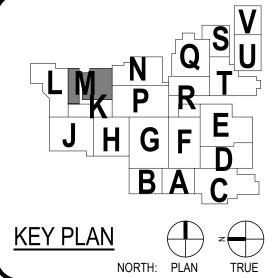
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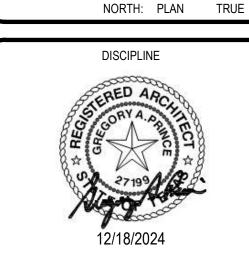
GENERAL ARCH PLAN NOTES

- I. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT
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 - 3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY
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 - INTO THE WORK DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG
- 8. REFER TO PARTITION TYPES ON A801 SERIES SHEETS 9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION
- 10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE S5 U.N.O.
- 11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE 12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
- 14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS 15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
- 16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB 17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
- TO INSTALLATION OF FLOOR FINISHES 19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED 20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
- 21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
- 22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL
- COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED 23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR
- 24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK
- 25. PROVIDE PLYWOOD IN METAL STUD WALL PARTITION FOR SUPPORT OF ALL TV LOCATIONS.

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1ST LEVEL - FLOOR PLAN - AREA M **ALTERNATE #05**

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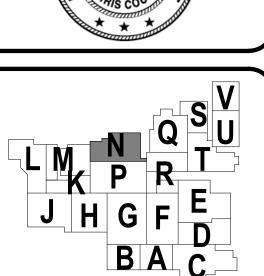
- . DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT
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- TYPE S3 U.N.O. 10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE S5 U.N.O.
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14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE

- ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE 13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
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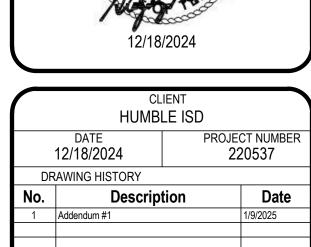
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0 0 HUMBLE HIGH RENOVATIONS



NORTH: PLAN TRUE

KEY PLAN

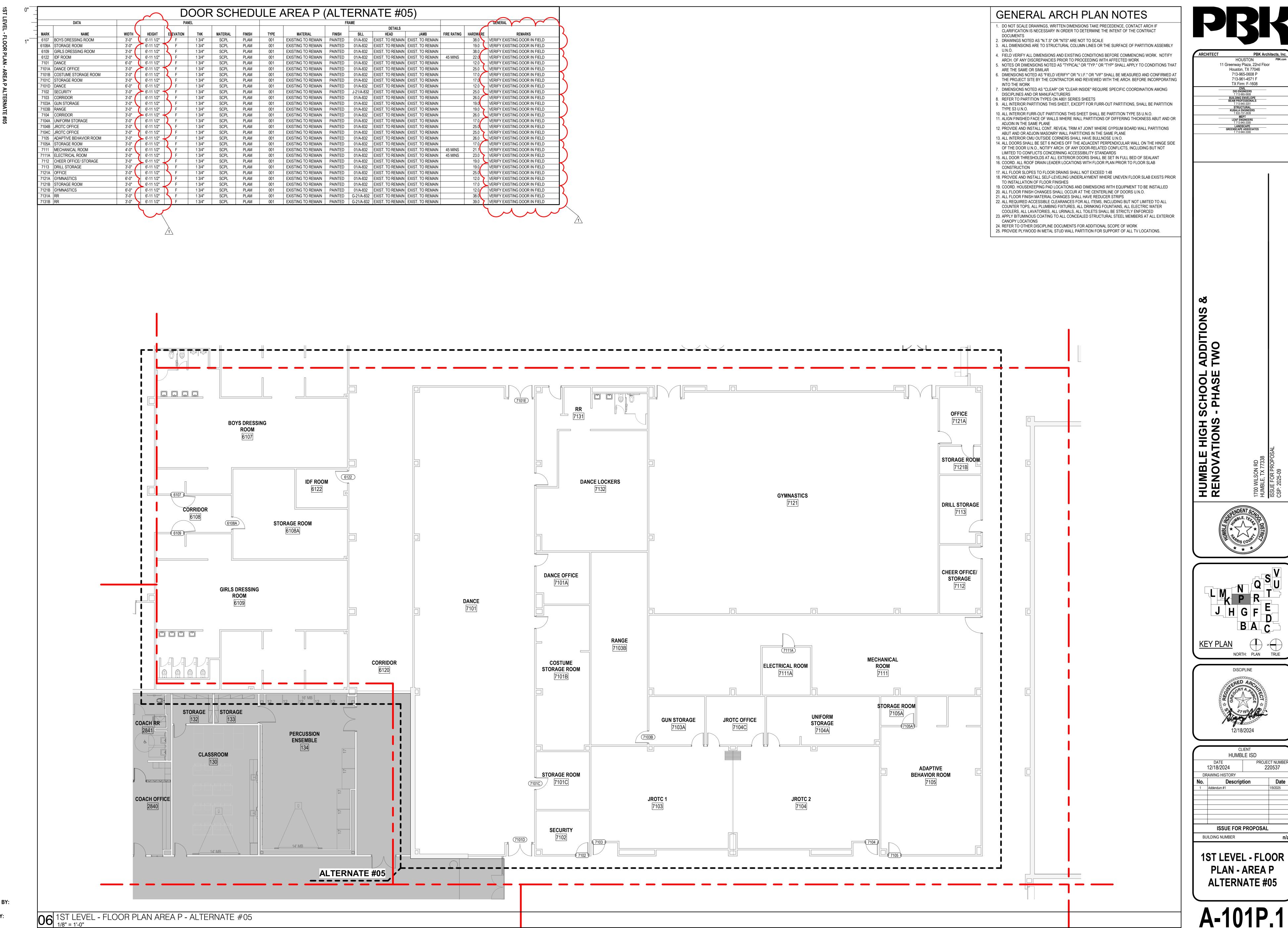


ISSUE FOR PROPOSAL

1ST LEVEL - FLOOR PLAN - AREA N -**ALTERNATE #05**

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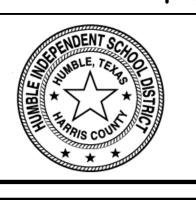
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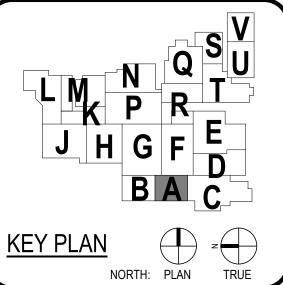
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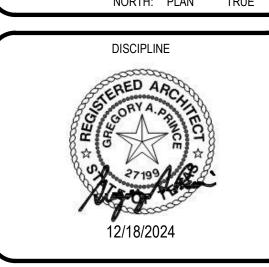
- . DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT
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HUMBLE HIGH SCHORENOVATIONS - PHA







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2ND LEVEL - FLOOR PLAN - AREA A **ALTERNATE #05**

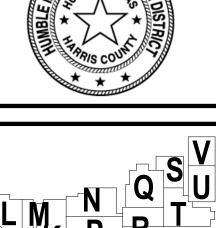
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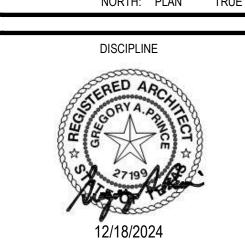
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OL SE HUMBLE HIGH SCHORENOVATIONS - PHA



NORTH: PLAN TRUE KEY PLAN



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2ND LEVEL - FLOOR PLAN - AREA B **ALTERNATE #05**

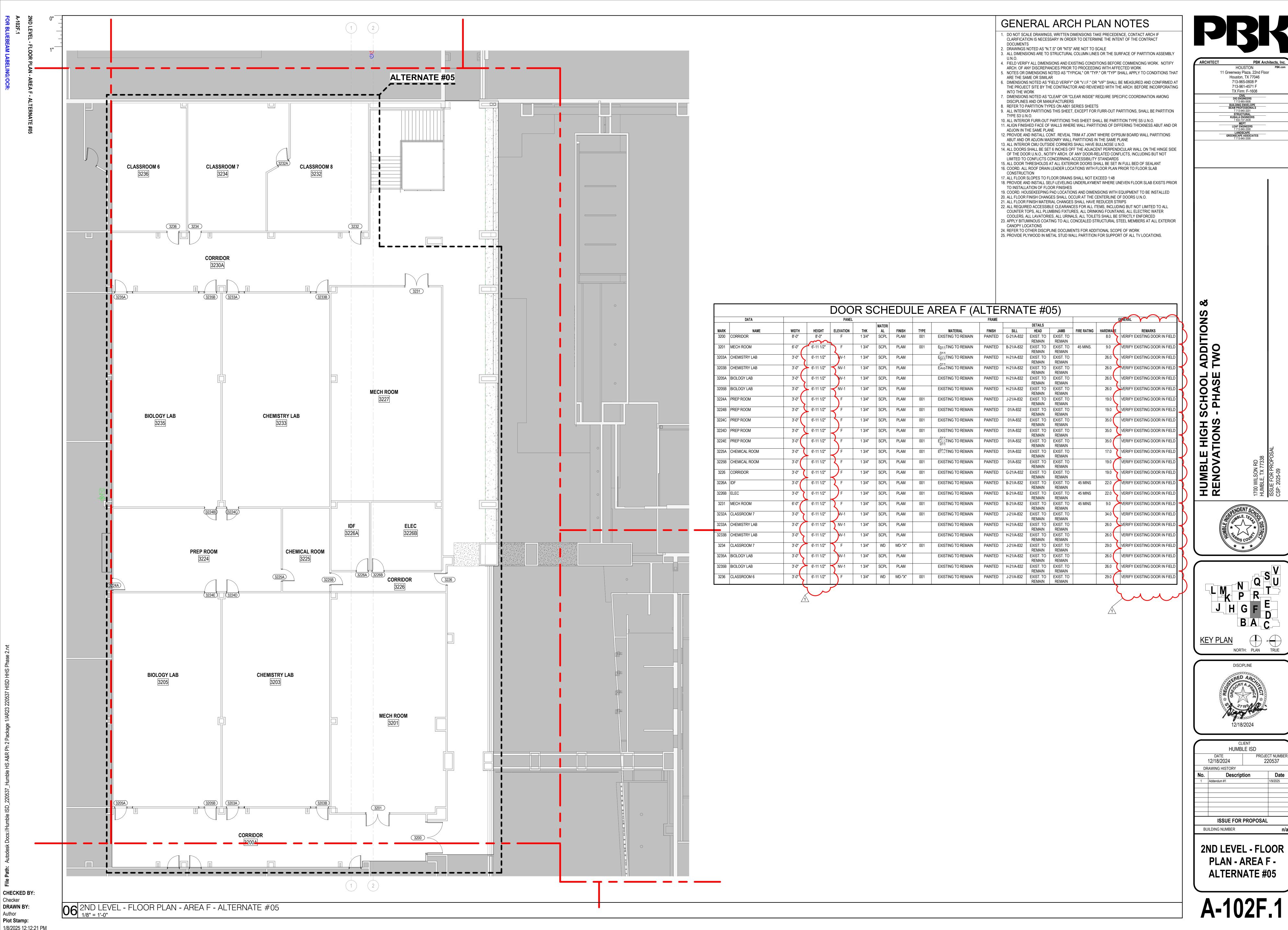
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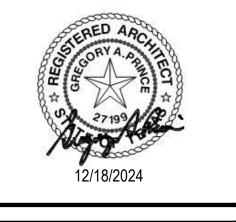
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2ND LEVEL - FLOOR PLAN - AREA B ALTERNATE #05



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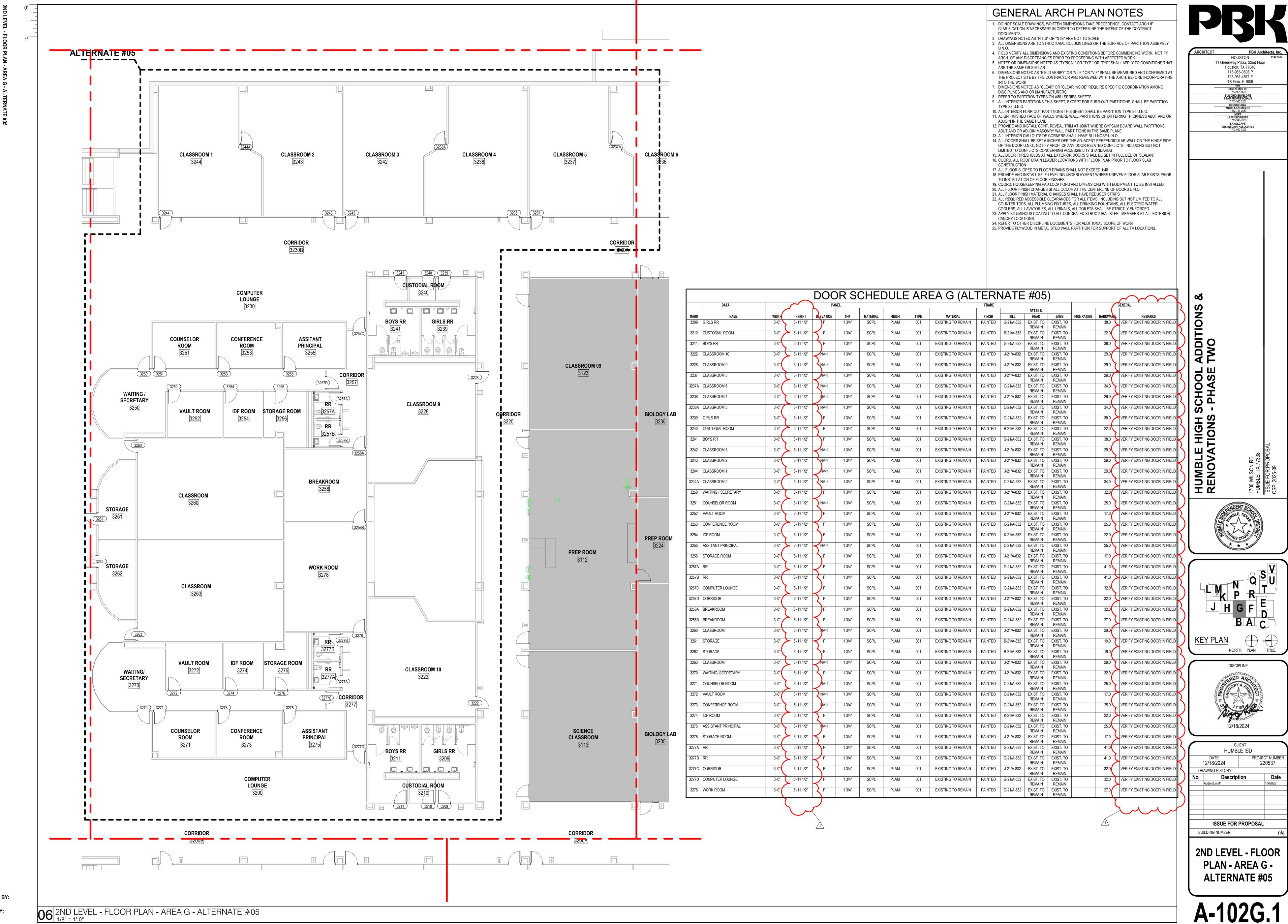
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HUMBLE ISD ISSUE FOR PROPOSAL

> PLAN - AREA F -**ALTERNATE #05**

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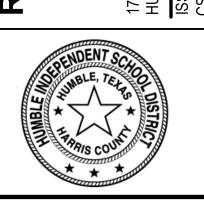
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KEYNOTE LEGEND

HUMBLE HIGH S RENOVATIONS



11 Greenway Plaza, 22nd Floor

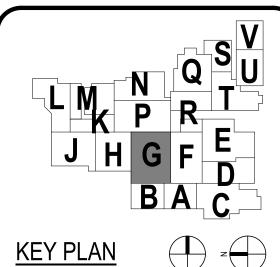
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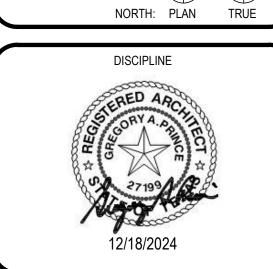
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TX Firm: F-1608

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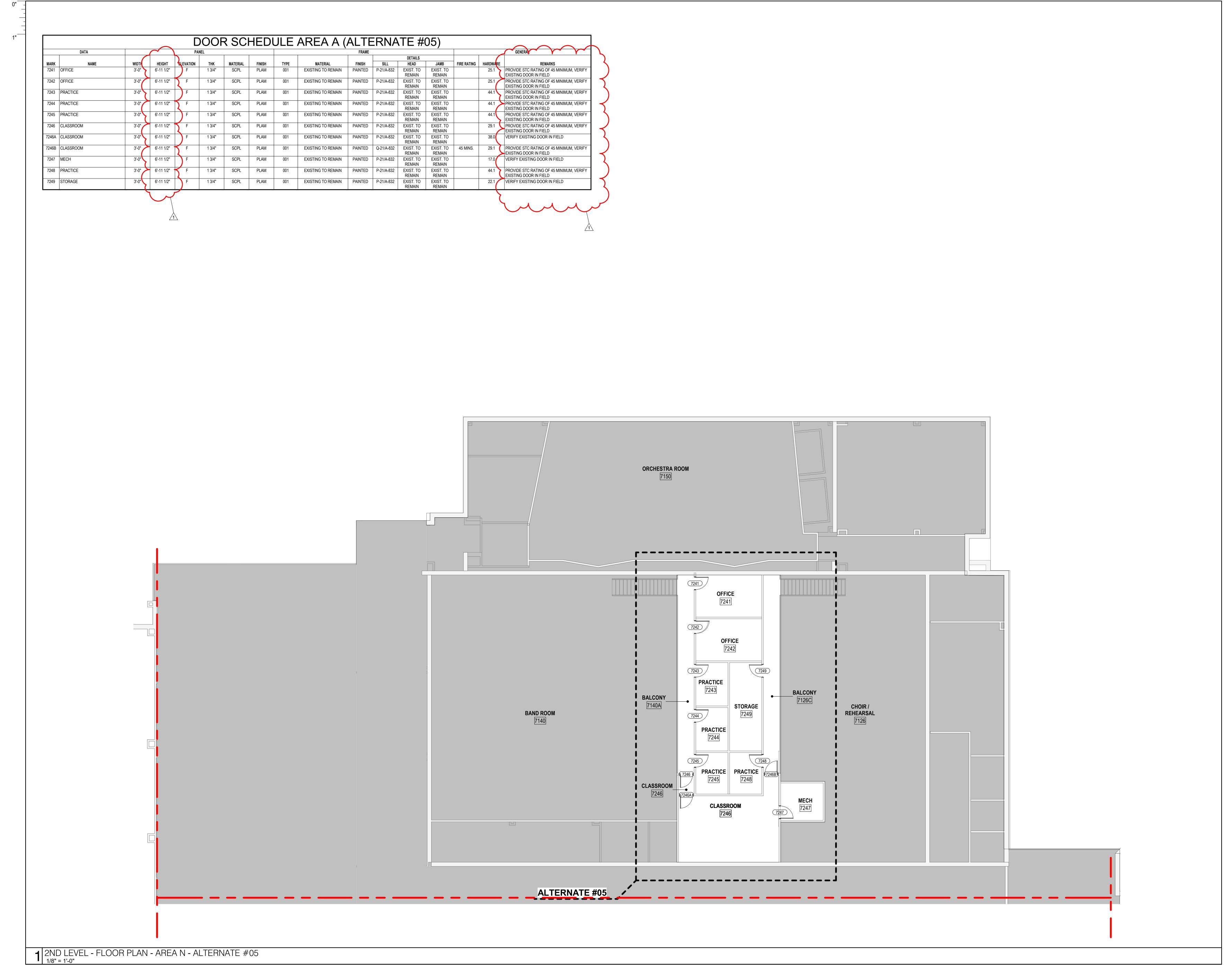


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2ND LEVEL - FLOOR PLAN - AREA G -**ALTERNATE #03**

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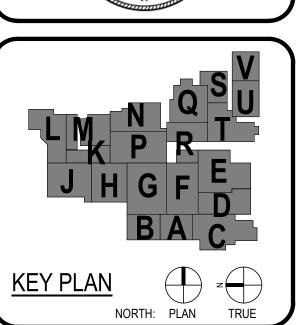
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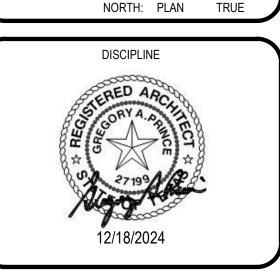
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: F-1608

CIVIL
DIG ENGINEERS
T 713-965-0608
BUILDING ENVELOPE
BEAM PROFESSIONALS
T 713-940-3201
STRUCTURAL
KUBALA ENGINEERS
T 832-737-2639
MEPT
LEAF ERGINEERS
T 713-940-3300
LANDSCAPE
GREENSCAPE ASSOCIATES
T 1713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON R HUMBLE, TX 77. ISSUE FOR PRC CSP: 2025-09





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2ND LEVEL - FLOOR PLAN - AREA N -ALTERNATE #05

A-102N₋1

SITE PLAN GENERAL NOTES:

- 1. COORDINATE ROUTING FOR ALL UNDERGROUND ELECTRICAL BRANCH CIRCUITS AND FEEDERS WITH OTHER DISCIPLINES PRIOR TO TRENCHING.
- 2. UNLESS NOTED OTHERWISE ALL UNDERGROUND CONDUIT SHOWN ON THIS PLAN TO BE
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY INSTALLATION OF NEW WORK.

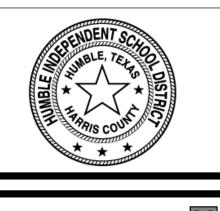
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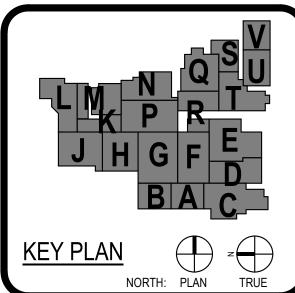
11 Greenway Plaza, 22nd Floor Houston, TX 77046

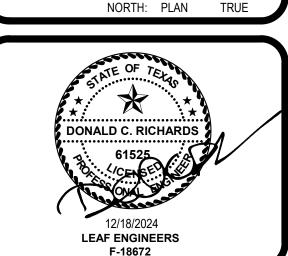
EXACT MOUNTING HEIGHT WITH ARCHITECT AND SIGN MANUFACTURER PRIOR TO INSTALLATION AND ROUGH-IN. CONTRACTOR SHALL ROUTE AND CONCEAL EXPOSED POWER CONDUITS BELOW THE TOP OF THE BLEACHERS LOCATED IN EXISTING GYM. LIGHTING SHALL BE CONTROLED VIA CONTACTOR.

- PROVIDE (2) 2" CONDUITS WITH PULL STRING FOR MARQUEE SIGN, MARK AND CAP CONDUITS. COORDINATE EXACT POWER REQUIREMETNS WITH SIGN MANUFACTURER PRIOR TO ROUGH-IN.
- (4) DISCONNECT FOR POWER TO PUMP CONTROLLER. REFER TO CIVIL FOR EXACT LOCATION AND ADDITIONAL INFORMATION PRIOR TO INSTALLATION.
- (5) JUNCTION BOX FOR POWER CONNECTION TO IRRIGATION CONTROLLER. CONTRACTOR SHALL PROVIDE (1) 1" CONDUIT WITH PULL STRING. COORDINATE EXACT LOCATION AND ADDITIONAL INFORMATIÓN WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. THIS SHALL BE PROVIDED AS PART OF ALTERNATE #6.
- (6) EXISTING WALL PACK IN THIS LOCATION SHALL BE DEMOLISHED.
- 7 EXISTING ELECTRICAL CONDUITS SHOWN TO BE ON THE EXTERIOR WALL OF THIS AREA SHALL BE ROUTED TO BE WITHIN THE AVALIBLE PLENUM SPACE OF THE NEW AREA BUILDOUT AND RECONNECT TO THE EXISTING UNDERGROUND FEEDERS TO ENSURE THAT THE SERVING LOAD IS IN WORKING ORDER. CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION AND ROUTING PRIOR TO REINSTALLING THE EXISTING CONDUIT.

HUMBLE HIGH S RENOVATIONS







		IENT				
	HUMB	LE ISD				
	DATE 12/18/2024		OJECT NUMBER 220537			
DI	RAWING HISTORY					
No.	Descrip	tion	Date			
1	Addendum #1		1/09/2025			
	ISSUE FOR	PROPOSAL	-			
ВІ	JILDING NUMBER		n/a			

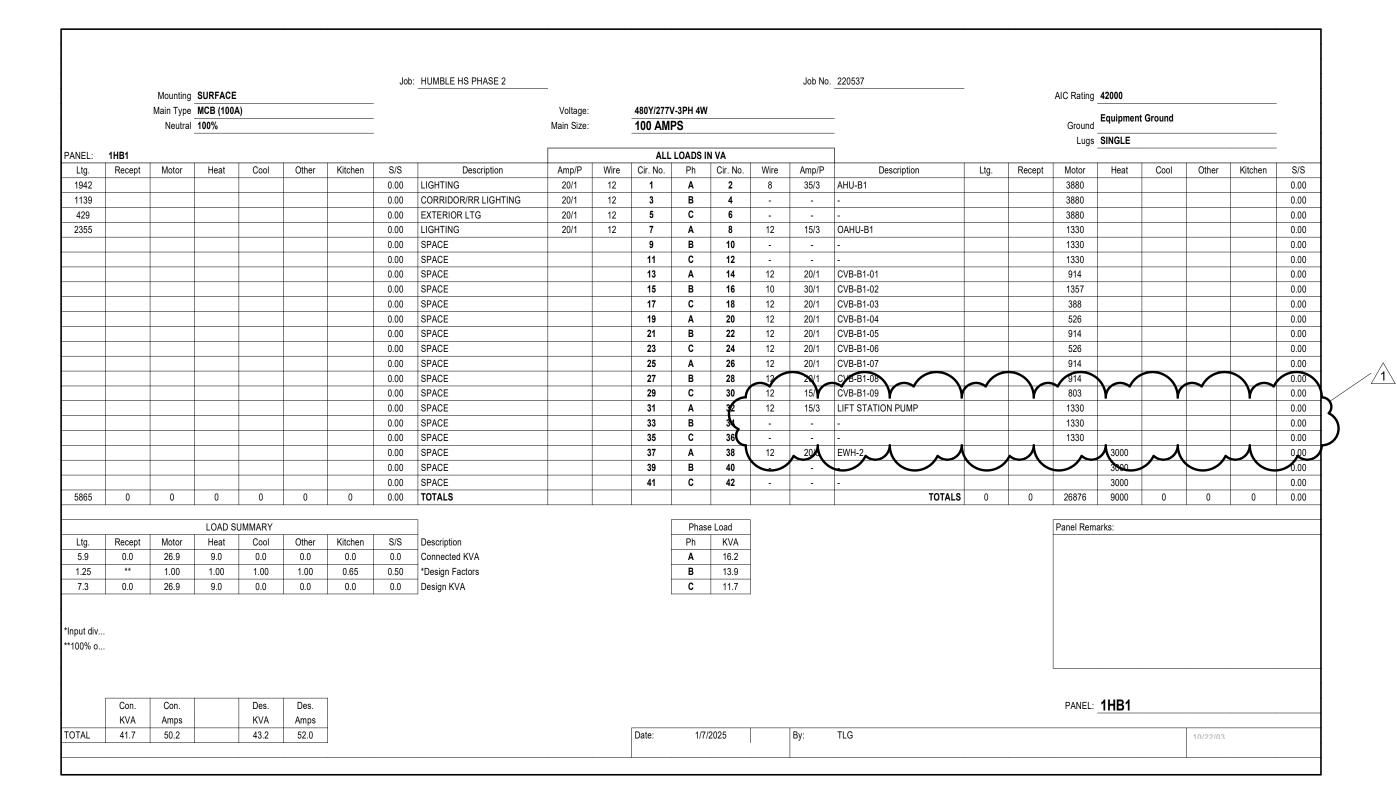
ELECTRICAL SITE PLAN

ES-101

CHECKED BY: DON RICHARDS DRAWN BY:

Plot Stamp: 1/7/2025 9:56:36 AM

		Mounting	QUIDEACE				Job	: HUMBLE HS PHASE 2							Job No	. 220537	_		AIC Dating	10000				
		Mounting Main Type	SURFACE MCB (175A						Voltage:		208Y/120	V-3PH 4W	V						AIC Rating					
		Neutral							Main Size:		225 AM								Ground	Equipment				
PANEL:	1LB										AL I	LOADS	INI V/A			٦			Lugs	FEED THR	U			
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
9-	360				250		0.00	SCI CLASS QUAD/PROJ	20/1	12	1	Α	2	12		FUME HOOD	9-					500		0.00
	540						0.00	SCI CLASS TWS	20/1	12	3	В	4	12	20/1	SVB						300		0.00
	1080				100		0.00	SCI CLASS 6 REC	20/1	12	5	C	6	12	20/1	PREP REC		500						0.00
	1000						0.00	SCI CLASS 2 REC SCI CLASS 2 REC	20/1	12 12	9	A B	10	12	20/1	SCI CLASS QUAD/PROJ SCI CLASS TWS		360 540				250		0.00
	1000						0.00	SCI CLASS 3 REC	20/1	12	11	С	12	12	20/1	SCI CLASS 1 WS		1080				100		0.00
	540						0.00	SCI CLASS 4 REC	20/1	12	13	Α	14	12	20/1	SCI CLASS 2 REC		1000						0.00
					500		0.00	FUME HOOD	20/1	12	15	В	16	12	20/1	SCI CLASS 2 REC		1000						0.00
	360						0.00	SCI CLASS FLOOR BOX	20/1	12	17	C	18	12	20/1	SCI CLASS 2 REC		1000						0.00
	360 360						0.00	SCI CLASS FLOOR BOX SCI CLASS FLOOR BOX	20/1	12 12	19 21	A B	20	12	20/1	SCI CLASS 3 REC FUME HOOD		540				500		0.00
	360						0.00	SCI CLASS FLOOR BOX	20/1	12	23	C	24	12	20/1	SCI CLASS FLOOR BOX		360				300		0.00
	360						0.00	SCI CLASS FLOOR BOX	20/1	12	25	Α	26	12	20/1	SCI CLASS FLOOR BOX		360						0.00
	360						0.00	SCI CLASS FLOOR BOX	20/1	12	27	В	28	12	20/1	SCI CLASS FLOOR BOX		360						0.00
	500						0.00	PREP REC PREP REC	20/1	12	29	C	30	12	20/1	SCI CLASS FLOOR BOX		360						0.00
	500				600		0.00	DISHWASHER	20/1	12 12	31	A B	32 34	12	20/1	SCI CLASS FLOOR BOX SCI CLASS FLOOR BOX		360 360						0.00
	500						0.00	PREP REC	20/1	12	35	С	36	12	20/1	CP-1		1	180					0.00
	500						0.00	PREP REC	20/1	12	37	Α	38	10	30/3	SPD								0.00
	500					200	0.00	PREP REC	20/1	12	39	В	40	-	-	-								0.00
0	10180	0	0	0	1450	800 800	0.00	REFRIGERATOR TOTALS	20/1	12	41	С	42	-	-	TOTALS	0	8180	180	0	0	1650	0	0.00
	10100		0	U	1400	000	0.00	TOTALO								TOTALO		0100	100	0	0	1030	0	0.00
ANEL:	11	LB	2	(Section								LOADS	IN VA											
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	540				600		0.00	EDF RR/FDC 3 REC	20/1	12 12	43 45	A B	44	12	20/1	CLASS RM TWS/PROJ CLASS RM 3 REC		360 540				250		0.00
	340				2880		0.00	HAND DRYER	30/1	10	47	C	48	12	20/1	CLASS RM 3 REC		540						0.00
					2880		0.00	HAND DRYER	30/1	10	49	Α	50	12	20/1	CLASS RM TWS/PROJ		360				250		0.00
	900				180		0.00	5 REC & DDC CTRL	20/1	10	51	В	52	12	20/1	CLASS RM 3 REC		540						0.00
	540						0.00	EXTERIOR 3 REC	20/1	12	53	C	54	12	20/1	CLASS RM 3 REC		540				250		0.00
							0.00	SPARE SPARE	20/1		55 57	A B	56 58	12	20/1	CLASS RM TWS/PROJ CLASS RM 3 REC		360 540				250		0.00
							0.00	SPARE	20/1		59	С	60	12		CLASS RM 3 REC		540						0.00
							0.00	SPARE	20/1		61	Α	62	12	20/1	CLASS RM TWS/PROJ		360				250		0.00
							0.00	SPARE	20/1		63	В	64	12	20/1	CLASS RM 3 REC		540						0.00
							0.00	SPARE SPARE	20/1		65 67	C A	66 68	12	20/1	CLASS RM 3 REC CLASS RM TWS/PROJ		540 360				250		0.00
							0.00	SPARE	20/1		69	В	70	12	20/1	CLASS RM 3 REC		540				230		0.00
							0.00	SPARE	20/1		71	С	72	12		CLASS RM 3 REC		540						0.00
		1373					0.00	LEF-B1-01 (2 HP)	30/2	10	73	Α	74		20/1	SPARE								1.00
		1373					0.00	- EE B4 00 (0 UD)	- 20/2	- 10	75	В	76		20/1	SPARE CORR/STRG TREC				\~/			\ ~	1.00
		1373 1373					0.00	LEF-B1-02 (2 HP)	30/2	10	77 79	C A	78 80 (12	20/1	SPARE	Υ	900		Υ	Y	1	Y	0.00
					1664		0.00	MARQUEE SIGN	20/2	10	81	В	82		20/1	SPARE				1				1.00
					1664		0.00	-	-	-	83	С	84	10 **	\2\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	IRRIGATION CUTRL		\sim		人		300		0,00
0	1980	5491	0	0	9868	0	0.00	TOTALS								TOTALS		8100	0	0	0	1550	0	4.00
			LOAD S	JMMARY				7				Phas	se Load	7					Panel Rem	arks:				
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description				Ph	KVA	1							DED AS P	ART OF A	ALTERNAT	Ξ #6.
Lig.	28.4	5.7	0.0	0.0	14.5	0.8	4.0	Connected KVA				Α	16.5											
0.0	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors				В	14.3	-										
0.0 1.25	10.0	5.7	0.0	0.0	14.5	0.5	2.0	Design KVA				С	18.6	_										
0.0	19.2	•																						
0.0 1.25	19.2																							
0.0 1.25 0.0																								
0.0 1.25 0.0																								
0.0 1.25 0.0																								
0.0 1.25 0.0																								
0.0 1.25		Con.		Des.	Des.]													PANEL:	1LB				
0.0 1.25 0.0		Con. Amps 148.3		Des. KVA 41.9	Des. Amps 116.4						Date:		7/2025		Ву:	TLG			PANEL:	1LB		10/22/03		



Heat		Other	Kitchen	S/S	Description	Voltage: Main Size:			PS		,		- -			AIC Rating Ground	Equipmen	t Ground			-
Tal 100%		Other	Kitchen		· · · · · · · · · · · · · · · · · · ·	Main Size:		250 AM	PS				_ _					t Ground			-
Heat	Cool	Other	Kitchen		· · · · · · · · · · · · · · · · · · ·								_								-
	Cool	Other	Kitchen		· · · · · · · · · · · · · · · · · · ·	Amp/P		ALL	LOADSII				Neutral 100% Main Size: 250 AMPS								
	Cool	Other	Kitchen		· · · · · · · · · · · · · · · · · · ·	Amp/P		ALL LOADS IN V					7			Lugs					-
				0.00		7 ap/.	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	
				0.00	AHU-B2	35/3	8	1	Α	2	12	20/1	LIGHTING	2249							(
				0.00	-	-	-	3	В	4	12	20/1	CORRIDOR/RR LIGHTING	929							(
				0.00	-	-	-	5	С	6	12	20/1	LIGHTING	2395							(
				0.00	OAHU-B2	15/3	12	7	Α	8			SPACE								(
				0.00	-	-	-	9	В	10			SPACE								(
				0.00	-	-	-	11	С	12			SPACE								(
				0.00	CVB-B2-01	20/1	12	13	Α	14			SPACE								(
				0.00	CVB-B2-02	20/1	12	15	В	16			SPACE								(
				0.00	CVB-B2-03	20/1	12	17	С	18			SPACE								(
				0.00	CVB-B2-04	20/1	12	19	Α	20			SPACE								(
				0.00	CVB-B2-05	20/1	12	21	В	22			SPACE								(
				0.00	CVB-B2-06	20/1	12	23	С	24			SPACE								(
				0.00	CVB-B2-07	20/1	12	25	Α	26			SPACE								0
				0.00	CVB-B2-08	20/1	12	27	В	28			SPACE								(
				0.00	CVB-B2-09	20/1	12	29	С	30			SPACE								C
				0.00	SPACE			31	Α	32			SPACE								C
				0.00	SPACE			33	В	34			SPACE								(
				0.00	SPACE			35	С	36			SPACE								(
				0.00	SPACE			37	Α	38	SEE	70/3	XFMR T2LB	0	9420	5157	0	0	3210	267	0
				0.00	SPACE			39	В	40	RISER	-	-	0	9420	5157	0	0	3210	267	C
				0.00	SPACE			41	С	42	-	-	-	0	9420	5157	0	0	3210	267	C
0	0	0	0	0.00	TOTALS								TOTALS	5573	28260	15471	0	0	9630	800	(
LOADS	IMMADV				7				Dhase	a Load	1					Danel Dem	narke:				
		Other	Kitchen	9/9	Description						<u> </u> 					T and I tell	iai ko.				
					· ·						1										
					-						1										
_					→					-	1										
0.0	0.0	3.0	0.0	0.0	Design KVA					29.3	J										
	LOAD SI	LOAD SUMMARY	LOAD SUMMARY Heat	LOAD SUMMARY Heat Cool Other Kitchen 0.0 0.0 9.6 0.8 1.00 1.00 1.00 0.65	0.00	0.00 CVB-B2-01 0.00 CVB-B2-02 0.00 CVB-B2-03 0.00 CVB-B2-03 0.00 CVB-B2-04 0.00 CVB-B2-05 0.00 CVB-B2-05 0.00 CVB-B2-06 0.00 CVB-B2-07 0.00 CVB-B2-07 0.00 CVB-B2-08 0.00 CVB-B2-09 0.00 SPACE 0.00	0.00 CVB-B2-01 20/1	0.00 CVB-B2-01 20/1 12	0.00 CVB-B2-01 20/1 12 13 13 15 15 15 16 16 17 17 17 18 15 17 18 18 18 18 18 18 18	0.00 CVB-B2-01 20/1 12 13 A	0.00 CVB-B2-01 20/1 12 13 A 14	0.00 CVB-B2-01 20/1 12 13									

			SURFACE MCB (175				Job	: HUMBLE HS PHASE 2	 Voltage:		208Y/120	V-3PH 4W	V		Job No	o. 220537			AIC Rating					-
		Neutral							Main Size:		225 AM					- -			Ground	Equipmen FEED THR				-
EL:	2LB										ALL	LOADS	IN VA						Lugs	TEED IIIN				-
ig.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	,	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	360				250		0.00	SCI CLASS QUAD/PROJ	20/1	12	1	A	2	12	20/1	FUME HOOD						500		0.00
	540 1080				100		0.00	SCI CLASS TWS SCI CLASS 6 REC	20/1	12	5	B C	6	12 12	20/1	SVB PREP REC		500				300		0.00
	1000				100		0.00	SCI CLASS 2 REC	20/1	12	7	A	8	12	20/1	SCI CLASS QUAD/PROJ		360				250		0.00
	1000						0.00	SCI CLASS 2 REC	20/1	12	9	В	10	12	20/1	SCI CLASS TWS		540						0.00
	1000						0.00	SCI CLASS 3 REC	20/1	12	11	С	12	12	20/1	SCI CLASS 6 REC		1080				100		0.00
	540						0.00	SCI CLASS 3 REC	20/1	12	13	A	14	12	20/1	SCI CLASS 2 REC		1000						0.00
	200				500		0.00	FUME HOOD	20/1	12	15	В	16	12	20/1	SCI CLASS 2 REC		1000						0.00
	360 360						0.00	SCI CLASS FLOOR BOX SCI CLASS FLOOR BOX	20/1	12 12	17 19	C A	18 20	12 12	20/1	SCI CLASS 2 REC SCI CLASS 3 REC		1000 540						0.00
	360						0.00	SCI CLASS FLOOR BOX	20/1	12	21	В	22	12	20/1	FUME HOOD		0.10				500		0.00
	360						0.00	SCI CLASS FLOOR BOX	20/1	12	23	С	24	12	20/1	SCI CLASS FLOOR BOX		360						0.00
	360						0.00	SCI CLASS FLOOR BOX	20/1	12	25	Α	26	12	20/1	SCI CLASS FLOOR BOX		360						0.00
	360						0.00	SCI CLASS FLOOR BOX	20/1	12	27	В	28	12	20/1	SCI CLASS FLOOR BOX		360						0.00
	500						0.00	PREP REC	20/1	12	29	C	30	12	20/1	SCI CLASS FLOOR BOX		360 360						0.00
	500				600		0.00	PREP REC DISHWASHER	20/1	12	31	A B	32	12 12	20/1	SCI CLASS FLOOR BOX SCI CLASS FLOOR BOX		360 360						0.00
	500				500		0.00	PREP REC	20/1	12	35	C	36	12	20/1	SPARE		000						0.00
	500						0.00	PREP REC	20/1	12	37	Α	38	10	30/3	SPD								0.00
	500						0.00	PREP REC	20/1	12	39	В	40	-	-	-								0.00
			_			800	0.00	REFRIGERATOR	20/1	12	41	С	42	-	-	-				_				0.00
)	10180	0	0	0	1450	800	0.00	TOTALS								TOTALS	0	8180	0	0	0	1650	0	0.00
EL:	2	LB	2	(Section							ALI	LOADS	IN VA											
g.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
					600		0.00	EDF	20/1	12	43	Α	44	12	20/1	CLASS RM TWS/PROJ		360				250		0.00
	540						0.00	RR/FDC 3 REC	20/1	12	45	В	46	12	20/1	CLASS RM 3 REC		540						0.00
					2000		0.00	HAND DRYER	30/1	10	47	C	48	12	20/1	CLASS RM 3 REC		540				050		0.00
	540				2000		0.00	HAND DRYER CORR 3 REC	30/1 20/1	10	49 51	A B	50 52	12 12	20/1	CLASS RM TWS/PROJ CLASS RM 3 REC		360 540				250		0.00
	340				500		0.00	PC REC	20/1	12	53	C	54	12	20/1	CLASS RM 3 REC		540						0.00
	720						0.00	GP REC	20/1	12	55	Α	56	12	20/1	CLASS RM TWS/PROJ		360				250		0.00
							0.00	SPARE	20/1		57	В	58	12	20/1	CLASS RM 3 REC		540						0.00
							0.00	SPARE	20/1		59	С	60	12	20/1	CLASS RM 3 REC		540						0.00
		4070					0.00	SPARE	20/1	10	61	A	62	12	20/1	CLASS RM TWS/PROJ		360				250		0.00
		1373 1373					0.00	LEF-B1-01 (2 HP)	30/2	10	63 65	B C	64	12 12	20/1	CLASS RM 3 REC CLASS RM 3 REC		540 540						0.00
		1373					0.00	LEF-B1-02 (2 HP)	30/2	10	67	A	68	12	20/1	CLASS RM TWS/PROJ		360				250		0.00
		1373					0.00	- (/	-	-	69	В	70	12	20/1	CLASS RM 3 REC		540						0.00
		1920					0.00	EF-B1-01	35/1	8	71	С	72	12	20/1	CLASS RM 3 REC		540						0.00
		530					0.00	EF-B1-02	20/1	12	73	Α	74	12	20/1	5 REC & DDC CTRL		900				180		0.00
		1920					0.00	EF-B1-03	35/1	8	75	В	76	12	20/1	EF-B1-04			530					0.00
		1660 530					0.00	EF-B2-01 EF-B2-02	30/1 20/1	10	77	C A	78 80	12	20/1	EF-B2-05 SPARE			530					0.00
		1660					0.00	EF-B2-02 EF-B2-03	30/1	10	81	В	82		20/1	SPARE								0.00
		700					0.00	EF-B2-04	20/1	12	83	С	84		20/1	SPARE								0.00
		14411	0	0	5100	0	0.00	TOTALS								TOTALS	0	8100	1060	0	0	1430	0	0.00
)	1800													 1										
)	1800			UMMARY	O+L	Vitaba	010	Description					se Load						Panel Rem	arks:				
		Moto-	Heat	Cool 0.0	Other 9.6	Kitchen 0.8	S/S 0.0	Description Connected KVA				Ph A	17.1											
g.	Recept	Motor	0.0		1.00	0.65	0.50	*Design Factors				В	17.6											
		Motor 15.5 1.00	0.0 1.00	1.00				-				С	10.5	1										
J.)	Recept 28.3	15.5		0.0	9.6	0.5	0.0	Design KVA					19.5	J										
). 5	Recept 28.3 ** 19.1	15.5 1.00	1.00		9.6	0.5	0.0	Design KVA					19.5	I										



HOUSTON

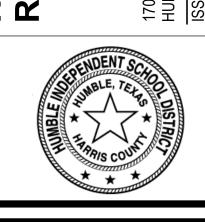
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: F-1608

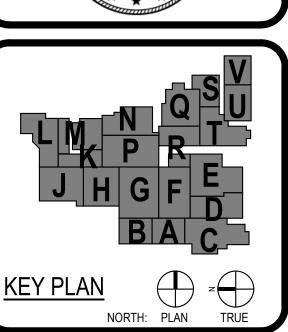
CIVIL
DIG ENGINEERS
T713-965-0608
BUILDING ENVELOPE
BEAM PROFESSIONALS
T713-940-3201
STRUCTURAL
KUBALA ENGINEERS
T 832-737-2639

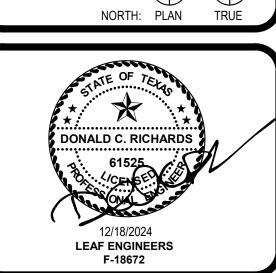
MEPT
LEAF ENGINEERS
T 713-940-3300

LEAF

HUMBLE HIGH SCHOOL ADDITIONS RENOVATIONS - PHASE TWO







20537		
Date		
1/09/2025		
n/a		

ELECTRICAL PANEL SCHEDULES

E-702

CHECKED BY:
DON RICHARDS
DRAWN BY:

CHECKED BY: Don Richards

DRAWN BY: Brandon Powell

Plot Stamp:

1/7/2025 9:35:49 AM

GENERAL NOTES - PLUMBING PLAN

- A. THE CONTRACTOR SHALL COMPLY WITH ALL AUTHORITIES HAVING JURISDICTION.
- B. ALL FINAL CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR.
- C. ALL PLUMBING PIPING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY INSTALLATION OF ALL PLUMBING FIXTURES AND EQUIPMENT BY THE PLUMBING CONTRACTOR.
- D. ALL FLOOR DRAINS AND FLOOR SINKS SHOWN ON THIS DRAWING SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- E. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. DO NOT SCALE FROM PLUMBING DRAWINGS.
- F. ALL WALL CLEAN-OUTS SHALL BE ACCESSIBLE BY AN ACCESS PANEL.
- LINES EXITING THE BUILDING.

G. PROVIDE AND INSTALL A DOUBLE EXTERIOR CLEAN-OUT (DFCO) ON ALL SANITARY

- H. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH A TRAP PRIMER AND INSTALLED BY THE PLUMBING CONTRACTOR.
- I. FIXTURES DESIGNATED AS ADA ACCESSIBLE BY ARCHITECT SHALL BE INSTALLED AT
- J. ALL DOMESTIC COLD AND HOT WATER TAKE-OFFS SHALL HAVE AN ISOLATION SHUT-OFF VALVE.

ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL DETAILS.

- K. FLOOR DRAINS AND FLOOR SINKS IN MECHANICAL ROOMS SHALL BE SET NOT LESS THAN 6" FROM HOUSEKEEPING PADS. RE: MECHANICAL DRAWINGS. DO NOT PLACE
- ON, OR IN, HOUSEKEEPING PAD, OR UNDERNEATH EQUIPMENT.
- EQUIPMENT.

L. CONTRACTOR SHALL DEWATER ANY AREA AT OR BELOW GRADE PRIOR TO SETTING

M. CONTRACTOR SHALL PROVIDE AND INSTALL A TRAP PRIMER, TP-1, AND A HOSE BIBB, HB-3, IN ALL MECHANICAL ROOMS.

N. CONTRACTOR SHALL PROVIDE AND INSTALL A HOSE BIBB WITH WHEEL HANDLE IN ALL

- MECHANICAL ROOMS, HB-3.
- O. ANY AND ALL WATER PIPING EXPOSED TO OUTSIDE ELEMENTS SHALL BE INSULATED AND HEAT TRACED TO PREVENT FREEZING.
- P. ALL SANITARY 3" OR ABOVE SHALL BE INSPECTED BY A CAMERA PRIOR TO SUBSTANTIAL COMPLETION.

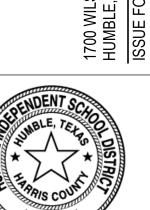
KEYNOTES - PLUMBING PLAN

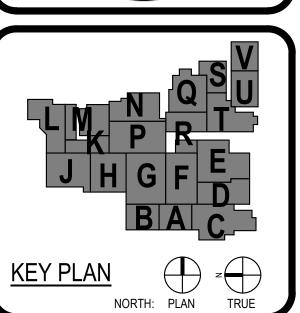
- 1 4" WASTE DOWN FROM DOUBLE EXTERIOR CLEANOUT TO GRADE.
- 2 4" WASTE DOWN FROM CLEANOUT TO GRADE.
- 3 4" WASTE DOWN FROM FLOOR SINK.
- 4 4" WASTE DOWN FROM FLOOR CLEANOUT.
- 5 2" VENT UP.
- 6 8" STORM PIPE DOWN FROM ABOVE.
- 7 4" WASTE DOWN FROM ABOVE.
- 8 3" WASTE DOWN FROM FLOOR DRAIN.
- 9 2" WASTE DOWN.
- 10 2" WASTE DOWN FROM ABOVE.
- 11 3" VENT UP.
- 12 3" STORM PIPE DOWN FROM ABOVE.

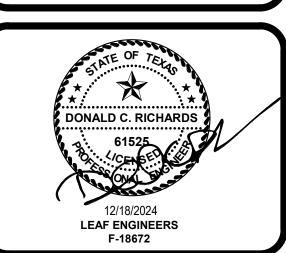
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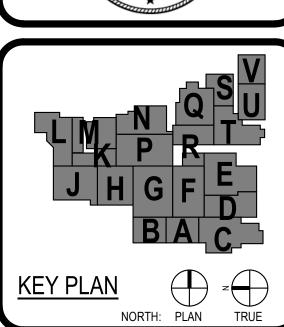
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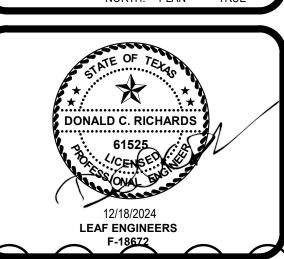
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HUMBLE HIGH SCHOOL ADDITIONS RENOVATIONS - PHASE TWO





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TECHNOLOGY GENERAL NOTES

A. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO EXISTING UTILITIES AND SYSTEMS THAT OCCURS DURING DEMOLITION AND CONSTRUCTION. TAKE ALL PRECAUTIONS REQUIRED TO PROTECT EXISTING TO REMAIN HEAD ENDS PRIOR TO FIELD DEVICE REMOVAL.

B. CONTACTOR SHALL COORDINATE WITH THE ARCHITECT FOR DEMOLITION AND CONSTRUCTION SCOPE PHASING.

C. OWNER RETAINS FIRST RIGHT OF SALVAGE FOR ALL REMOVED DEVICES AND CABLING. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS REJECTED BY THE OWNER.

D. ALL EXISTING DIVISION 27 AND 28 SYSTEM HEAD-ENDS TO REMAIN FUNCTIONAL THROUGHOUT CONSTRUCTION UNLESS OTHERWISE NOTED.

E. FOR ALL REMOVED DEVICES, ALL EXISTING CABLING SHALL BE REMOVED BACK TO SOURCE UNLESS NOTED OTHERWISE.

BACK TO SOURCE UNLESS NOTED OTHERWISE.

F. ALL CEILING TILES DAMAGED DURING THE COURSE OF CONSTRUCTION DUE TO DEVICE REMOVAL SHALL BE REPLACED WITH NEW. NEW CEILING TILES SHALL MATCH EXISTING. WHERE NEW CEILING TILES DO NOT MATCH EXISTING, CONTRACTOR SHALL REPLACE CEILING TILES IN THE ENTIRE AREA WITH NEW.

G. PRIOR TO REMOVAL, CONTRACTOR SHALL VERIFY THE FUNCTIONALITY OF ALL DIVISION 27 AND 28 SYSTEM COMPONENTS TO REMAIN IN AREAS OF CONSTRUCTION SCOPE. PROVIDE A WRITTEN REPORT OF FAULTY OR DAMAGED EXISTING EQUIPMENT TO THE ARCHITECT AND ENGINEER THAT REQUIRES REPAIR OR REPLACEMENT.

H. ALL DIVISION 27 AND 28 DEVICES AND CABLING TO REMAIN SHALL BE PROTECTED THROUGHOUT DEMOLITION AND CONSTRUCTION. REMOVE DEVICES AS REQUIRED, STORE IN A SECURE, AIR CONDITIONED, DUST FREE ENVIRONMENT. COIL EXISTING CABLING TO REMAIN, SECURE TO STRUCTURE AND PROVIDE PROTECTION FROM CABLING SHORTS, PAINT AND DUST. VERIFY PROPER FUNCTIONALITY AFTER DEVICE REINSTALLATION AND CONNECTION.

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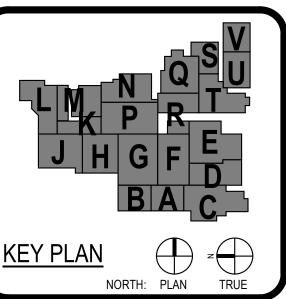
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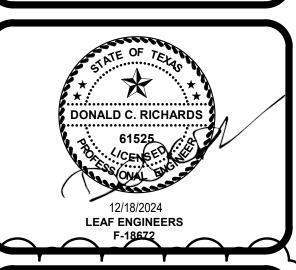
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HUMBLE HIGH SCHOOL ADDITIONS RENOVATIONS - PHASE TWO

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2ND LEVEL
TECHNOLOGY PLAN - (AREA A - ALTERNATE

TN-102A.1

1 2ND LEVEL TECHNOLOGY PLAN - AREA A - ALTERNATE 2
SCALE: 1/8" = 1'-0"

- A. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO EXISTING UTILITIES AND SYSTEMS THAT OCCURS DURING DEMOLITION AND CONSTRUCTION. TAKE ALL PRECAUTIONS REQUIRED TO PROTECT EXISTING TO REMAIN HEAD ENDS PRIOR TO FIELD DEVICE REMOVAL.
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- ALL EXISTING DIVISION 27 AND 28 SYSTEM HEAD-ENDS TO REMAIN FUNCTIONAL THROUGHOUT CONSTRUCTION UNLESS OTHERWISE NOTED.

 E. FOR ALL REMOVED DEVICES, ALL EXISTING CABLING SHALL BE REMOVED BACK TO SOURCE UNLESS NOTED OTHERWISE.
- F. ALL CEILING TILES DAMAGED DURING THE COURSE OF CONSTRUCTION DUE TO DEVICE REMOVAL SHALL BE REPLACED WITH NEW. NEW CEILING TILES SHALL MATCH EXISTING. WHERE NEW CEILING TILES DO NOT MATCH EXISTING, CONTRACTOR SHALL REPLACE CEILING TILES IN THE ENTIRE AREA WITH NEW.
- G. PRIOR TO REMOVAL, CONTRACTOR SHALL VERIFY THE FUNCTIONALITY OF ALL DIVISION 27 AND 28 SYSTEM COMPONENTS TO REMAIN IN AREAS OF CONSTRUCTION SCOPE. PROVIDE A WRITTEN REPORT OF FAULTY OR DAMAGED EXISTING EQUIPMENT TO THE ARCHITECT AND ENGINEER THAT REQUIRES REPAIR OR REPLACEMENT.
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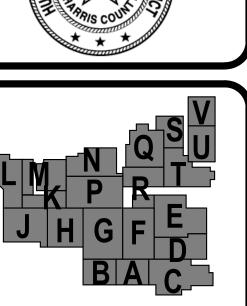
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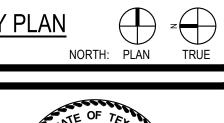
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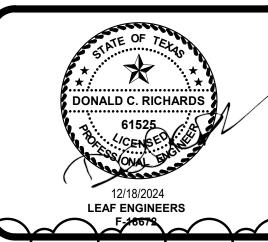
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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO







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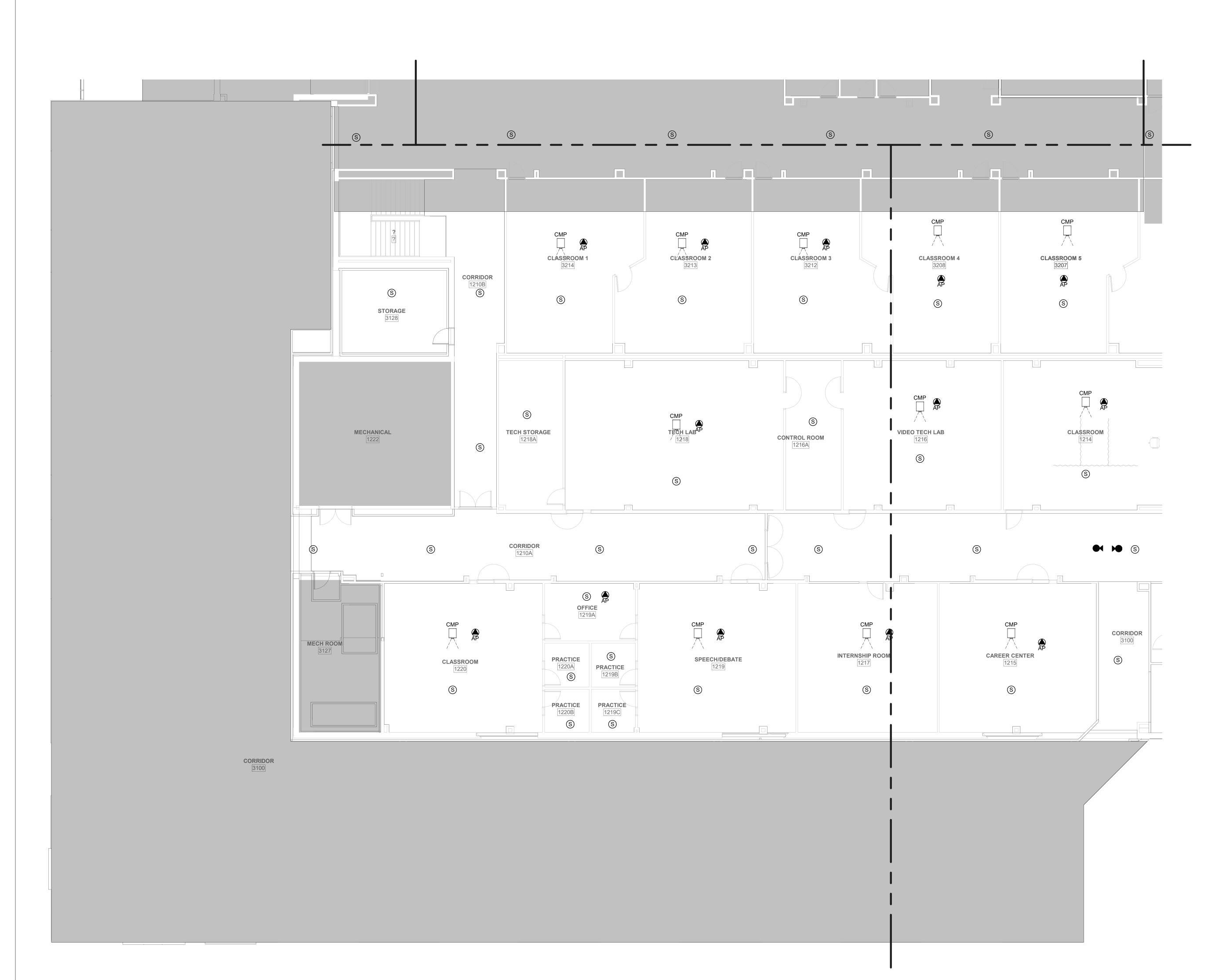
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TECHNOLOGY PLAN AREA B - ALTERNATE

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TECHNOLOGY KEYED NOTES

1. THE CONTRACTOR SHALL TEST FOR FUNCTIONALITY AND DOCUMENT EXISTING DEVICES ON EACH ACCESS CONTROL DOOR WITHIN THE SCOPE OF WORK. PRIOR TO REPLACING THE DOOR, EXISTING ACCESS CONTROL DEVICES, INCLUDING, BUT NOT LIMITED TO, ELECTRIFIED HARDWARE, TRANSFER HINGES, DOOR CONTACTS, REX DEVICES, ETC., SHALL BE REMOVED. ONCE THE NEW DOOR HAS BEEN INSTALLED, THE CONTRACTOR SHALL INSTALL THE EXISTING ACCESS CONTROL DEVICES TO PROVIDE A FUNCTIONAL ACCESS CONTROL DOOR.

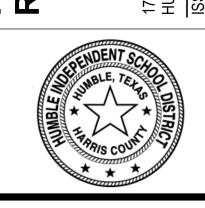
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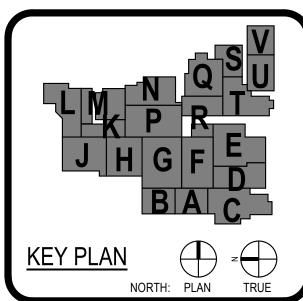
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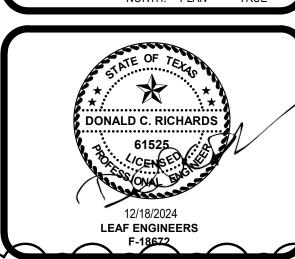
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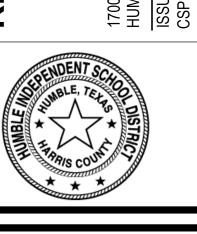
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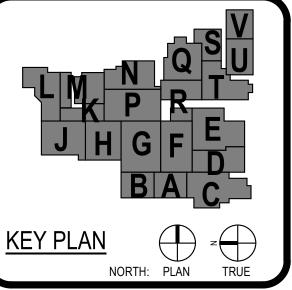


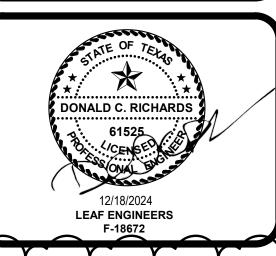
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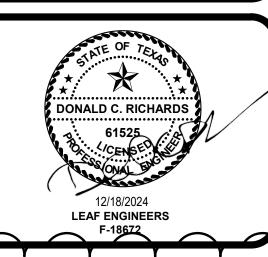
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