Purchasing Office 191 South East Street Frederick, Maryland 21701 301-644-5208 phone 301-644-5213 fax kim.miskell@fcps.org



Kerrie Koopman CPPB, CPPO, Purchasing Manager Kim Miskell, CSBO, Assistant Purchasing Manager Bill Meekins CPPB, CSBO, CPCP, Purchasing Agent Shane Ryberg, Purchasing Agent

ADDENDUM

April 3, 2020

ADDENDUM # 3 Bid 20C6, Waverley Elementary School - New Construction

DUE DATE & TIME:

Bids for the following packages: 2A Sitework; 3A Concrete; 4A Masonry; 5A Structural Steel; 6A General Carpentry; 7A Roofing; 8A Windows and Storefronts; 9A Drywall and Acoustics; 9B Ceramic Wall and Floor Tile; 9C Fluid Applied and Terrazzo Flooring; 9D Resilient Flooring and Athletic Surfacing; 9E Painting; 11A Food Service Equipment; 11B Athletic Equipment; 15A Mechanical (Plumbing, HVAC and Sprinkler); 16A Electrical (including Low Voltage) will be received and time stamped in the main lobby of Frederick County Public Schools (FCPS) at 191 South East Street, Frederick, MD 21701, prior to and time stamped no later than <u>11:00 a.m. local time, April 29, 2020.</u>

Additional information will be provided in a future addendum regarding the receipt of bid packages and how the bid opening will be handled.

1. Revised language to Supplemental Instructions to Bidders, #29 Employment of Child Sex Offenders and Person with Uncontrolled Access to Students, Page 47:

29. <u>EMPLOYMENT OF CHILD SEX OFFENDERS AND PERSONS WITH UNCONTROLLED ACCESS</u> <u>TO STUDENTS</u>

- a. Be advised that individuals who are registered sex offenders are not eligible to work on any FCPS' project. The awarded supplier(s) must initially check the Maryland Department of Public Safety & Correctional Services' Maryland Sex Offender Registry and search for the name of any employee to be assigned to work on this project. This applies to subcontractors and material/equipment suppliers as well. For projects lasting more than a few months, the supplier will periodically re-check the names of workers against the registry to ensure ongoing compliance. In the event that a registered sex offender is discovered to be working on a FCPS project, whether through employment by the supplier, subcontractor or equipment or material supplier, FCPS will notify the site superintendent to immediately remove the individual from the premises and permanently terminate his work assignment. FCPS may terminate this contract at no additional costs, as a result if the supplier is unable to demonstrate they have exercised care and diligence in the past in checking the Maryland registry.
- b. Contracted service providers who have regular, direct and unsupervised access to children cannot begin service without undergoing the same process as new employees per FCPS Regulation 300-33. If required, an awarded supplier(s) is responsible for payment of the full cost of the criminal background check. Additional information regarding this requirement will be found in Section II FCPS Specific Terms and Conditions.
- c. The awarded supplier(s), or subcontractor(s), may not knowingly assign an employee to work on FCPS school premises with direct, unsupervised, and uncontrolled access to children, if the employee has been convicted of a crime identified as a crime of violence.
- d. The awarded supplier(s) will not assign employees who has been convicted of an offense under § 3-307 or § 3-308 of the Criminal Law Article or an offense under the laws of another state that would constitute a violation of § 3-307 or § 3-308 of the Criminal Law Article if committed in the state.
- e. An awarded supplier will not assign employee who has been convicted of a crime of violence as defined in § 14-101 of the Criminal Law Article, or an offense under the laws of another state that would be a violation of § 14-101 of the Criminal Law Article if committed in this state.

- f. With the passing of Maryland Law MD. Code, Educ. 6-113.2, employers of all contracted staff must obtain background information relating to child sexual abuse or sexual misconduct. This means that all contracted staff having direct contact with students must meet all of the FCPS and Maryland State Department of Education (MSDE) requirements before doing business with FCPS. For additional information, visit:
 - Maryland State Department of Education Website;
 - House Bill 486 Child Sexual Abuse and Sexual Misconduct Prevention;
 - MSDE Guidelines For MD. Code, Educ. 6113.2;
 - Employment History Review Form for Child Abuse and Sexual Misconduct

Effective immediately, we will not fingerprint staff provided to FCPS by contractors or staffing agencies. Based on recent procedural review and guidance received from the state of Maryland, it is confirmed that the fingerprint records from the state's Criminal Justice Information System (CJIS) are to be processed and kept by employers only. This means that the contractors providing staff to FCPS are responsible to perform the CJIS fingerprint check since they are the employers of staff being provided to FCPS under various agreements. The fingerprint check required by FCPS and all Maryland school districts is the Adam Walsh Act background transaction (commonly referred to as the Child Care background check).

- 2. This Addendum includes the following attachment(s):
 - a. Oak Contracting, LLC & GWWO Addendum Number 3 (119 pages)
 - b. Pre-Bid Meeting Minutes (2 pages)
 - c. Pre-Bid Skype Attendance (1 page)

Thank you for your interest in bidding with Frederick County Public Schools and we apologize for any inconvenience this may have caused.

Sincerely,

Kim Miskell

Kim Miskell, CSBO, Assistant Purchasing Manager

km/ab

pc: Brian Staiger, Senior Project Manager, Construction Management Scott Moir, GWWO Dave Toth, Oak



ADDENDUM NO. 3

April 3, 2020

TO: ALL PLANHOLDERS AND PROSPECTIVE BIDDERS

RE: WAVERLEY ELEMENTARY SCHOOL REPLACEMENT

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated March 16, 2020. Acknowledge receipt of this Addendum in the space provided on the Form of Proposal.

General:

See attached Prebid Meeting Minutes prepared by Oak Contracting dated April 2, 2020 (5 pages).

See attached Oak Contracting Pre-Bid RFI's, numbered PB-001 thru 004, PB-006, and PB-008, for response to questions related to the Bid Documents (10 pages).

Changes to the Specifications:

Section 00 2416 Contract Packages

General Scope of Work for All Contractors:

Delete Item 0.39 in its entirety and replace with the following:

0.39 Date of Substantial Completion for New Waverley Elementary School, Phase 2, is June 30, 2022. Substantial Completion for entire Waverley Campus, Phase 3, is April 7, 2023. Liquidated damages in the amounts stated in the Contract Document AIA A132/CMa 2009 may be assessed in the event a Contractor fails to achieve Substantial Completion as stipulated or in the event a Contractor fails to achieve any of the milestone dates indicated in the Construction Schedule.

Prebid Meeting Minutes Waverley Elementary School

Owner	Frederick County Public Schools
Construction Manager	Oak Contracting, LLC
Architect	GWWO, Inc.
Civil Engineer	Adtek Engineering, Inc.
Structural Engineer	Carney Engineering Group, Inc.
MEP Engineer	Alban Engineering, Inc.

	AGENDA ITEMS
Item No.	Item Description
1	List of attendees is per FCPS sign-in sheet included in Addendum #3.
2	Each bidder shall submit an original of the Bid Form of Proposal with all other required forms, and one copy of the Bid Form of Proposal with all other required forms, and it shall be sealed in an opaque envelope and marked:#20C6, Waverley Elementary School – New School Construction. All inner and outer envelopes and packaging, used by FedEx, UPS, etc., should be labeled with the Bid Name, Number, and Due Date/ Time
3	Bids shall be addressed to the Owner (The Board of Education of Frederick County) and will be received in the Main Lobby of Frederick County Public Schools (FCPS) at 191 South East Street, Frederick, Maryland 21701, no later than 11:00am Eastern Standard Time on April 29, 2020. All bids will be opened and read aloud in the Central Office Board Room subsequent to this deadline. Bids received after this time will be returned to the respective Contractor unopened.
4	Bidders submitting on more than one package must provide separate forms of proposal and submit each bid in a separate envelope.
5	Bidders must fill out bid form completely. FCPS has added forms. There can be no exclusions or exceptions in your offer.
6	All bidding Contractors must register with eMaryland Marketplace in order to be awarded the Contract. FCPS considers the registration on eMaryland Marketplace as their prequalification.
7	Minority Business Enterprise (MBE) Participation: Package by Package Goals are identified in the Invitation to Bid. MDOT Certification is only basis for MBE recognition. MDOT Certification must be current at the time of Proposal submission. MBE Waiver Forms are required to include documented efforts to obtain MBE participation.
8	5% Bid Bond for all Bidders. 100% Payment Bond and 100% Performance Bond are required from low responsible bidder. Bonding Company must meet rating requirements specified in the Supplemental Instructions to Bidders.
9	It is possible that 1 st , 2 nd , and 3 rd place bidders may be requested to provide their MBE documentation. If there is a problem with the documentation provided by the apparent low bidder, the next bidder in line will be evaluated for compliance with MBE requirements.
10	Project is only being bid as Prevailing Wage. Steel Procurement for Public Works is addressed in FCPS's Supplemental Instructions to Bidders.

12	In its role as construction management advisor to the FCPS, the Construction Manager is
12	advising all contractors the following:
	• The project requires the payment of prevailing wages.
	• For the contractor's workers and for their subcontractor's workers, all contractors are
	responsible for making sure appropriate wage classifications are being applied for each worker,
	the correct wage amounts are being paid, and certified payroll are being submitted.
	• Contractors should contact the Maryland Department of Labor, Division of Labor and
	Industry ("DLI") if a wage classification is not listed or if there are questions regarding the
	appropriate wage classification to be applied.
	• If an incorrect wage classification is being used by a contractor or subcontractor, both the
	contractor and subcontractor will be held responsible for the unpaid wages and penalties by
	DLI.
	• FCPS will not issue a change order for any issues regarding prevailing wages.
	• It is not the Construction Manager's responsibility to track prevailing wage issues.
	• In order to appropriately advise FCPS, prior to project closeout and final payment, the
	Construction Manager will contact DLI to inquire as to the status of any prevailing wage issues
	involving a contractor or their subcontractors.
	• If DLI identifies any outstanding prevailing wage issues involving a contractor or their
	subcontractors, the Construction Manager will recommend to FCPS that final payment not be
	released to the contractor.
	• Even if DLI does not identify any prevailing wage issues and final payment is released, DLI
	may still investigate prevailing wage issues and
13	Drawings and Specifications are available for download through FCPS website (www.fcps.org).
	Select 'Current Solicitations,' and the Bid Number #20C6. Bidders will be required to create a
	login/ password and provide a valid email address for Addenda distribution via email.
	Questions regarding downloading the Bid Documents from the FCPS website should be
	directed to Kim Miskell via email at kim.miskell@fcps.org. All Addendums will be issued via
	this same web address.
14	Questions are to be submitted in writing to Oak Contracting, LLC, FCPS Senior PM, and FCPS
	Purchasing via email. Questions must be emailed to the following parties:
	Kim Miskell, kim.miskell@fcps.org
	Brian Staiger, brian.staiger@fcps.org
	• Dave Toth, dtoth@oakcontracting.com
	Questions must be submitted no later than April 15 th , 2020 at 4:00pm. The last Addendum is
	anticipated to be issued on April 22 nd , 2020.
15	Bidders must use products and manufacturers listed in the Contract Documents. Only under
	specific circumstances, which are listed in the Contract Documents, will requests for "equals"
	or "substitutions" be considered after the submission of the Proposal. Please carefully read
	Contract Package General Scope Item Number 0.24 for requirements and restrictions. All
	requests for "equals" or "substitutions" are to be formally submitted and approved prior to the
	Prebid Question deadline. All approved requests will be included in Addenda, while
	unapproved requests will not be included.
16	The Contractor's submittal and the Design Team's acceptance of Shop Drawings, Product Data,
	and/ or Samples for construction activities not complying with the Contract Documents do not
	constitute an acceptance or a valid request for substitution, nor do they constitute approval.
17	Project is taxable.
18	The 'Buy American Steel Act' is applicable.

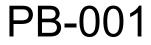
19	The project will consist of 3 Phases, which are identified in the Preliminary Construction
	Schedule located in Specification Section 00 3113, and on the Form of Proposal, located in
	Specification Section 00 4200. Award will be based on the total bid, which is a total of the 3
	Phases.
20	Date of Substantial Completion for Phase 2 is June 30, 2022. Date of Substantial Completion for Phase 3 is April 7, 2023.
21	Oak Contracting, LLC advises that night work, weekend work, and work on holidays may be
	required to meet schedule and must be anticipated. Schedule is being developed using 6-day
	work weeks. All costs must be included in each Contractor's base bid Proposal.
22	Potential liquidated damages are identified in the Standard Form of Agreement AIA
- 22	A132/CMa-2009. All FCPS direct costs plus \$1,000/day.
23	15A and 16A Contractors were advised that it is anticipated that the 'BAS Controls' Contractor
	will be Johnson Controls, Inc. The selected Controls Contractor will be assigned to the 15A
	Contractor for management, administration, and coordination into the overall project. 15A Contractor will be required to carry a line item on their Schedule of Values for their portion of
	this assigned work (management, administration, and coordination).
24	Tobacco products are strictly prohibited on the entire site per FCPS and State law.
25	Each Contractor is to check the Maryland, Virginia, West Virginia, and Pennsylvania Sex
20	Offender Registry to eliminate the possibility of employing anyone registered on this list on this
	project. Failure to comply with this requirement may be cause for Contract termination. Oak
	may randomly check workers on site with RAPTOR technology and remove registered workers
	immediately.
26	Attendance at Prebid meeting is not mandatory to submit a Proposal.
27	Capital Equipment Informational Unit Prices shall be required from the Apparent Low Bidder
	within 48 hours of request for same.
28	Unit prices are applicable to all contract packages. Unit prices may be adjusted if it is
	determined that the listed unit price is not equitable to all parties. Contractors are encouraged to
	review the unit prices and submit any unit price clarifications prior to the Prebid Question
20	deadline.
29 30	Bids are to remain valid for a minimum of 200 days from the date of submission.Project must achieve USGBC LEED Silver Certification level as a minimum under LEED
50	Version 4. All costs for participation in the certification process must be included in each
	Contractor's Proposal.
31	All warranties are a minimum of two years unless a longer duration is specified elsewhere in
01	the Contract Documents. The minimum two-year warranty supersedes any reference to one-
	year warranty in the Contract Documents.
32	Closeout Documents scheduled value is a mandatory minimum of 2% of total contract value.
	Further information is provided in Contract Package General Scope Item Number 0.37.
	Closeout documents must be submitted and approved before any reduction of retainage will be
	considered.
33	Contractor schedule of values must be approved by CM, Owner, and Architect. SOV's are to be
	broken out to show material and labor costs for each activity in each section of the building.
	Oak encourages all Contractors to review scope items to make sure all activities are captured on
21	the SOV. SOV's are due within 10 days of Contract Award.
34	Certificate of Insurance is required, see limits in AIA A132/CMa-2009 Contract. Note additional insured's: The Board of Education of Frederick County, Frederick County Council,
	State of Maryland, and Oak Contracting, LLC.
35	Deductible of FCPS Builder's Risk is \$ 2,500.00.
55	

36	Safety program is required of each Contractor on the project. Prime Contractors are responsible
	for obtaining and providing all subcontractor safety programs. Prime Contractors are
	responsible to enforce and manage their safety programs. See Contract Package General Scope
	Item Number 0.43.
37	The trade permits obtained by each Contractor must match the corresponding building permit
	issued on the project. FCPS and GWWO are responsible to obtain the Main Building Permit
	and Grading Permit only.
38	Work hours are 7:00am to 4:00pm Eastern Standard Time. All after hour work is to be
	scheduled and coordinated with Oak Contracting, LLC.
39	Allowable noise levels are per Comar 26.02.03.03.
40	This item is Intentionally Blank
41	Contractors are reminded that they are required to use the web-based software service, which is
	paid for by the Construction Manager. The web-based management system for this project will
	be 'ProjectSite.' Instructions are listed in each Contract Package.
42	MDE NPDES Discharge Permit will be transferred to the 2A Contractor during construction.
	Contractor is responsible to complete all requirements of the permit and transfer it back to the
	Owner after achieving Substantial Completion. Permit is to be completed online through MDE.
43	Certain CAD files may be available to Contractors who are awarded a Contract with a
	completed Waiver Form. These specific CAD files will not be provided for bidding.
44	Requirements for office trailers for Owner, Construction Manager, and Architect are by the
	Construction Manager.
45	The Owner/ Construction Manager will hire a third-party consultant to complete the
	coordination drawings for this project. Contractors are required to provide the required
	documentation for this coordination as per the schedule, so as not to delay the process.
	Contractors can be charged for third party consultant fees if coordination information is not
	provided and/ or if they do not participate in the process. Lack of coordination drawings will
	not be cause for delay in the work.
46	The address for this project is 201 Waverley Drive Frederick, MD 21702.
47	Oak advised all Contractors that building envelope commissioning is required per LEED
	Version 4. Contractors are to review specific specification sections with respect to required
	performance testing that they will be responsible for. Testing requirements of the building
	envelope commissioning not specifically identified as the Contractor's responsibility will be by
	the Owner.
48	Oak Contracting will be responsible for scheduling walk-thru's. Contractors who are interested
	need to submit a written request via email to <u>dtoth@oakcontracting.com</u> ,
	Kimberly.miskell@fcps.org, brian.staiger@fcps.org, cc'd ktoth@oakcontracting.com, no later
	than Friday April 10, 2020 at 3:00pm. Oak will provide a schedule based on the number of
	requests received by the deadline. Contractors will be given a specific time window for their
	walk-thru's and there will be no deviation from the schedule once issued. FCPS will provide as-
	built drawings for the existing schools as a courtesy. FCPS, Oak Contracting, nor GWWO take
	responsibility for the accuracy of the as-built's information on the existing schools to be
	demolished. These as-built drawings for the existing schools will not be inclusive of the bid
	documents.
1	

Q&A SECTION			
Company	Question	Answer	
OAK	NA	Please bring attention to items you foresee will be a lead time issue with current situation (COVID19)	
Bowen and Kron	Anticipated start date for demo?	End of July beginning of August of 2021	
CanAm	Prebid questions to Kim as well?	Yes	
Excavating	RFI's are due when?	April 15 th at 4pm	
Brawner	What is sqft of new building? What are the Staging requirements?	Sqft of building is listed on the bid docs. Approx. 130,000sqft CM will have designated staging area for contractors.	
Bowen and Kron	Will it be permissible to crush brick and concrete on site?	No. Due to the other school location there will be issues with noise & dust and there is insufficient space for these operations. Also concern with schedule. Bldg demo needs to be complete for remainder of new building construction to proceed.	
CanAm	Is FCPS considering electronic submission of bids?	FCPS is currently looking at all options. Once a decision is made instructions will be forwarded via addendum.	
OAK	Hazmat survey	Hazmat survey is location in volume 2 of the specifications at the end of the demolition section 02 4100	
ASI	Are we to quote hazmat quantities included in hazmat survey?	Yes.	



Detailed with Comments and Links



Waverley Elementary School Replacement (1901)

PB-001 - CCTV

Subject CCTV

Discipline

Importance

Created On 03/19/2020

Due Date 03/26/2020

Author Kerrigan Toth Oak Contracting LLC

QUESTION Kerrigan Toth on 3/19/2020 11:14 AM

See question below from Wycliffe Technologies:

Under 1.5 quality assurance in CCTV states,

 Installers must be factory-trained and certified on the Interlogix system. Provide proof of the certification and provide at least five completed installations using the Interlogix equipment.
 Provide building name and contact person information. Owner reserves the right to inspect the systems used as references. Companies not certified at time of bid will not be considered.

With interlogix no longer in business, have you given thought to any other options?

COMMENT Kerrigan Toth on 3/19/2020 11:15 AM (Edited by Kerrigan Toth on 3/19/2020 11:18 AM)

Response from Oak Contracting: CCTV equipment is provided by FCPS and installed under the 16A Contract Package. There should be no manufacturer specific qualification requirements listed in this specification section. Paragraphs 1.4C, 1.5 A. 1, and 2.1 A should be revised.

ADDED LINKS Jason Hearn on 3/25/2020 11:45 AM

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81605 CCTV Adden. Jason Hearn

ANSWER Jason Hearn on 3/23/2020 12:01 PM

These paragraphs will be revised as part of Addendum #3.

ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC)

Jason Hearn (GWWO, Inc.)

201 Waverley Drive Frederick, Maryland 21702

Closed
Location

Date Resolved 03/23/2020

> Resolved By Jason Hearn GWWO, Inc.

Request for Information

Detailed with Comments and Links



201 Waverley Drive Frederick, Maryland 21702

Status

Closed

Location

Date Resolved

03/25/2020

Resolved By

Jason Hearn

GWWO, Inc.



Waverley Elementary School Replacement (1901)

PB-002 - Substitution Request - Lockers

Subject

Substitution Request - Lockers

Discipline

Importance

Created On 03/20/2020

Due Date 03/27/2020

Author Kerrigan Toth

Kerrigan Toth Oak Contracting LLC

QUESTION Kerrigan Toth on 3/20/2020 11:08 AM

See attached substitution request from Scranton Products for your review.

				And And And And And And And And And And And And And And And And And And	A SOULTE	
File	File	File	File	File	File	File
Substitution Regu	SP Artisan Woodgr	LEED Points.pdf	Tufftec Benches S	Tufftec Benches B	Tufftec HDPE vs M	Tufftec Specifica
Kerrigan Toth	Kerrigan Toth	Kerrigan Toth	Kerrigan Toth	Kerrigan Toth	Kerrigan Toth	Kerrigan Toth
File	File	File	File			
Tufftec Lockers B Kerrigan Toth	Warranty.pdf Kerrigan Toth	Health Product De Kerrigan Toth	Engraving Brochur Kerrigan Toth			
ANSWER Jaso	n Hearn on 3/25/2	020 11:43 AM				

Confirmation from Brian Staiger on 3/25/20 that FCPS is not interested in HPDE lockers. This request is REJECTED.

ASSIGNMENTS

Jason Hearn (GWWO, Inc.)

ProjectSight

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project:	Waverley Eleme Replacement/Ad	ntary School dition (09-670369)		Substitution Request	SubReq-0907	75	
	Frederick, MD		From:		Courtney Damore, Scranton Products		ton Products
To:	Dave Toth, Oak	Contracting LLC	_ Date:		03/20/2020		
	dtoth@oakcontra	acting.com, 410-828-1000		VE Project Number:			
Re:	Metal Lockers	Metal Lockers Contract For:		Contract For:	Frederick County Public School District		School District
Specificat	tion Title: Meta	al Lockers		Description:	Manufacturer	rs	
Specificat Section:	tion Title: Meta	al LockersPage: 1		Description: Article/Paragraph:		rs	
Section:						rs	
Section:	10 5113	Page: <u>1</u>	Address			Phone:	570-348-0997

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.

Submitted by	r: Courtney Damore				
Signed by:	Courtney Damore				
Firm:	Scranton Products				
Address:	801 E. Corey Street				
	Scranton, Pennsylvania 18504				
Telephone:	(570) 348-0997 ext. 8032, courtney.damore@azekco.com				
A/E' s REVIE	EW AND ACTION				
Substitut	Substitution approved - Make submittals in accordance with Specification Substitution Procedures.				
Substitut	Substitution approved as noted - Make submittals in accordance with Specification Substitution Procedures.				
Substitut	Substitution rejected - Use specified materials.				
Substitut	Substitution Request received too late - Use specified materials.				
Signed by:	Date:				
Supporting D Attached:	Data				

Substitution Request products - Waverley Elementary School ReplacementAddition (09-670369).pdf

SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project:	Waverley Elemer Replacement/Ad	ntary School dition (09-670369)		Substitution Request Number:	SubReq-09076	
	Frederick, MD		F	From:	Courtney Damore, Scranton Products	
To:	Dave Toth, Oak	Contracting LLC		Date:	03/20/2020	
	dtoth@oakcontra	acting.com, 410-828-1000		A/E Project Number:		
Re:	Metal Lockers			Contract For:	Frederick County Public	School District
Specification Title: Metal Lockers			Description:	B. Locker Benches		
Section:	10 5113	Page: 2		Article/Paragraph:	2.1	
Proposed	Substitution:	Tufftec Bench				_
Manufact	urer:	Scranton Products	Address	: scrantonproducts.com	Phone:	570-348-0997
Trade Na	me:	Scranton Tufftec Bench			Model No.:	N/A

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.

Submitted by:	Courtney Damore					
Signed by:	Courtney Damore					
Firm:	Scranton Products					
Address:	801 E. Corey Street					
	Scranton, Pennsylvania 18504					
Telephone:	(570) 348-0997 ext. 8032, courtney.damore@azekco.com					
A/E' s REVIE	W AND ACTION					
Substituti	on approved - Make submittals in accordance with Specification Substitution Procedures.					
Substituti	Substitution approved as noted - Make submittals in accordance with Specification Substitution Procedures.					
Substituti	on rejected - Use specified materials.					
Substituti	on Request received too late - Use specified materials.					
Signed by:	Date:					
Supporting Da Attached:	ata Drawings Product Data Samples Tests Reports					



Detailed with Comments and Links



Waverley Elementary School Replacement (1901)

PB-003 - Playground Items

Subject

Playground Items

Discipline

Importance

Created On 03/23/2020

Due Date 03/30/2020

Author Kerrigan Toth Oak Contracting LLC

QUESTION Kerrigan Toth on 3/23/2020 08:08 AM

See question below from Younger Services:

1. The drawings don't indicate where and what type of playground equipment is being installed. Could you please clarify where and what type of equipment is desired?

2. Please provide a typical detail for the playground safety surfacing.

3. Please reference 116813- Playground Equipment, the specification states to provide Robinia Series, "Parkour" structures by Kompan but Kompan is not listed as an acceptable manufacturer under 2.1 paragraph of the specification. Please confirm Kompan is an acceptable manufacturer. Please also indicate on the drawings where this piece is to be installed.

ANSWER Jason Hearn on 3/30/2020 11:54 AM

Addendum #3 will include an augmented architectural site plan with equipment configurations for design intent only. The approved distributors/manufacturers listed in the specifications are to submit configurations derived from the Robina series by Kompan. Addendum #3 will also contain a typical detail for playground safety surfacing; the GameTime standard detail is attached to this response. The specification does not state to provide Robina series by Kompan. It states that structures and configurations should "resemble" these items as they are for design intent only.



5248-003 - GT IMP... Jason Hearn

ASSIGNMENTS

Jason Hearn (GWWO, Inc.)

201 Waverley Drive Frederick, Maryland 21702

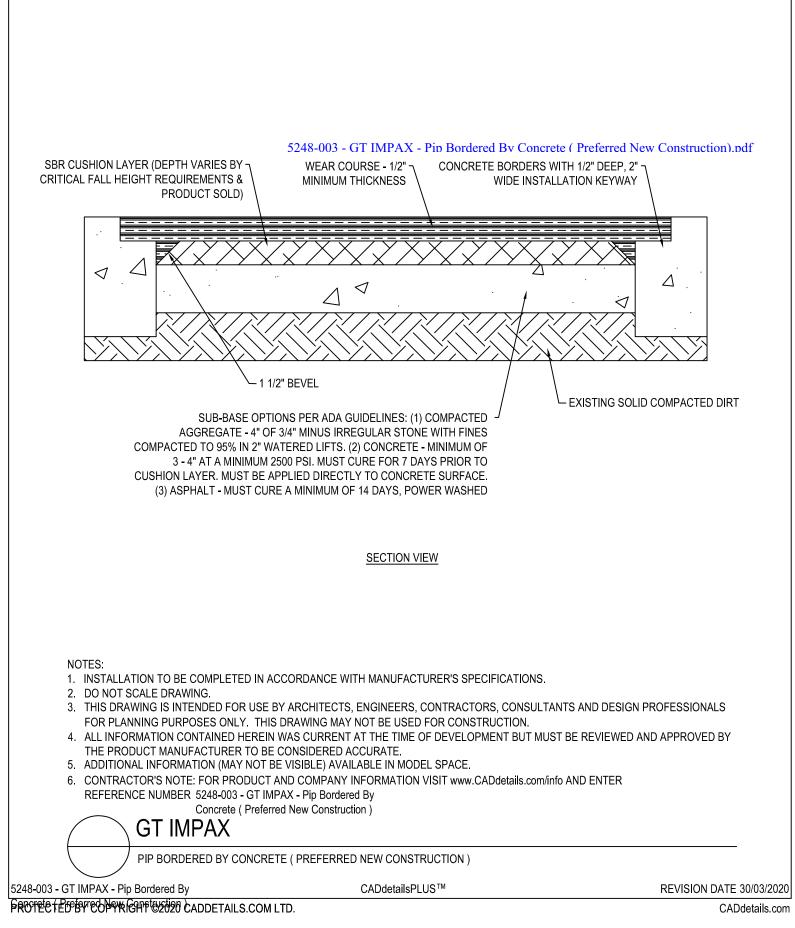
> Status Closed

> > Location

Date Resolved 03/30/2020

> Resolved By Jason Hearn GWWO, Inc.





ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC) Done On 3/30/2020

ProjectSight

Request for Information

Detailed with Comments and Links



201 Waverley Drive Frederick, Maryland 21702

Status

Closed

Waverley Elementary School Replacement (1901)

QUESTION Kerrigan Toth on 3/24/2020 01:46 PM

ANSWER Kerrigan Toth on 3/24/2020 01:47 PM

See question below from Allec, LLC:

to make way for the new school.

PB-004 - Abatement Clarification

Subject Abatement Clarification

Discipline

Created On

03/24/2020

Kerrigan Toth

Oak Contracting LLC

disturbed by demolition.

File Doc3.docx Kerrigan Toth

Author

Importance

Will any of the non friable ACM be abated. In the specs it says that non-friable ACM will only be removed if it is

Per Oak Contracting: All hazmat is to be abated under the 2A Contract Package. Both schools are being demolished

Due Date 03/31/2020

Location Date Resolved

> 03/24/2020 Resolved By

Kerrigan Toth Oak Contracting LLC

Page 1 of 1



Doc3.docx

Subject CMU Clarifications Discipline

PB-006 - CMU Clarifications

Waverley Elementary School Replacement (1901)

Created On 03/30/2020

Author Kerrigan Toth Oak Contracting LLC

QUESTION Kerrigan Toth on 3/30/2020 12:47 PM

Please see questions below from Bragunier Masonry:

1. On page AC-1 wall types 1.11 thru 1.15 and 1.21 thru 1.25, 122x call for a 3-hour rating. Please confirm the CMU block does not need to be 3-hour rated.

2. Keep in mind the 4" CMU solid block will only meet 1.5-hour rating.

CONTRACTING LLC

- 3. 6" CMU is only 2-hour, 6"CMU filled solid and solid 6" CMU will meet 3-hour rating
- 4. Please identify which brick will be used for generator/ dumpster enclosure.

ANSWER Jason Hearn on 3/30/2020 01:43 PM

This is a good question; thank you. The required ratings are noted on the life safety plans in the CS series. The maximum rating required on this project is 2-hours. Wall types 1.11, 1.12, 1.21 and 1.22 are not 3-hour rated assemblies as noted. These will be revised for Addendum #3. However, wall types 1.13-1.15 and 1.23-1.25 do have an inherent rating of 3-hours due to the added furring and gypsum board. The furring and gypsum board are for finishing purposes only and do not pertain to the fire rating, however per UL, these items do increase the fire rating as noted. Four-inch and 6" nominal CMU is used in areas requiring additional sound isolation and/or extra durability; these wall types are not used for fire resistance in this project. Per wall type S.01 on AC.1 and the elevations on AS.2, Face Brick #1 (042000-B1) is to be used on the outside face of the generator/dumpster enclosure.

ASSIGNMENTS

Jason Hearn (GWWO, Inc.)

Request for Information

Detailed with Comments and Links



Importance

Due Date 04/06/2020

201 Waverley Drive Frederick, Maryland 21702

Closed

Location

Status

Date Resolved 03/30/2020

> Resolved By Jason Hearn GWWO, Inc.

Page 1 of 1

CONTRACTING LLC Builders

Detailed with Comments and Links



Waverley Elementary School Replacement (1901)

PB-008 - Building Demolition

Subject **Building Demolition**

Discipline

Created On

04/01/2020

Importance

Author Kerrigan Toth Oak Contracting LLC **Date Resolved** 04/01/2020

Resolved By Kerrigan Toth Oak Contracting LLC

QUESTION Kerrigan Toth on 4/1/2020 04:17 PM (Edited by Kerrigan Toth on 4/1/2020 04:18 PM) See questions below from Pleasants Construction:

1. Please provide the complete set of as-built drawings for both buildings scheduled for demolition?

2. Please provide the Hazardous Material Survey for both buildings.

ANSWER Kerrigan Toth on 4/1/2020 04:23 PM

1. Per Oak Contracting, existing as-built information will be provided by FCPS on the FCPS website with the Bid Documents.

2. Per Oak Contracting, hazmat information is provided in the Contract Documents towards the end of Specification Section # 02 4100.

Printed on: 4/2/2020

ASSIGNMENTS

Kerrigan Toth (Oak Contracting LLC) Done On 4/1/2020

ProjectSight



201 Waverley Drive Frederick, Maryland 21702

Status

Location

Closed

Due Date 04/08/2020

ADDENDUM #3

DATE:	April 3, 2020
BID NAME:	Waverley Elementary School – New Construction
BID NUMBER:	20C6
BID ISSUE DATE:	March 17, 2020
DUE DATE:	April 29, 2020
DUE TIME:	11:00 A.M.
TOTAL PAGES:	73 (plus 30 full size drawings)

The following revisions and responses to questions are made to the original bid documents. This addendum forms a part of the Contract Documents and modifies the Original Solicitation Documents accordingly and as noted below. Acknowledge receipt of this Addendum in the space provided on the "Addenda" form within the Form of Proposal.

PART 1 GENERAL (NOT USED)

PART 2 SPECIFICATIONS

- 2.1 VOLUME II
 - DELETE Specification Section 06 4100 ARCHITECTURAL WOOD CASEWORK; ISSUED FOR BID, dated 03/16/2020; ADD Specification 06 4100 – ARCHITECTURAL WOOD CASEWORK; ADDENDUM #3, dated 04/03/2020.
 - **REVISED** paragraphs and items highlighted.
 - 2. **REVISE** Specification Section 10 1400 SIGNAGE; ISSUED FOR BID, dated 03/16/2020.
 - **REVISE** Part 2.2 (Signage Applications), Paragraph F, Item 1 to "Provide one plaque, 24 inches wide by 36 inches tall, in accordance with State of Maryland requirements."
 - DELETE Specification Section 11 6813 PLAYGROUND EQUIPMENT; ISSUED FOR BID, dated 03/16/2020; ADD Specification Section 11 6813 – PLAYGROUND EQUIPMENT; ADDENDUM #3, dated 04/03/2020.
 - **REVISED** paragraphs and items highlighted.
 - DELETE Specification Section 12 3200 MANUFACTURED WOOD CASEWORK; ISSUED FOR BID, dated 03/16/2020; ADD Specification Section 12 3200 – MANUFACTURED WOOD CASEWORK; ADDENDUM #3, dated 04/03/2020.
 - **REVISED** paragraphs and items highlighted.
 - DELETE Specification Section 12 3600 COUNTERTOPS; ISSUED FOR BID, dated 03/16/2020; ADD Specification Section 12 3600 – COUNTERTOPS; ADDENDUM #3, dated 04/03/2020.
 - **REVISED** paragraphs and items highlighted.
- 2.2 VOLUME III
 - REVISE Specification Section 28 1605 INTEGRATED CCTV SURVEILANCE SYSTEM; ISSUED FOR BID, dated 03/16/2020.
 - **DELETE** Part 1.5 (Quality Assurance), Paragraph A.

- **REVISE** Part 1.5 (Quality Assurance), Paragraph B to "A. Installer Qualifications: Licenses Security Contractor.
- **DELETE** "with a signed agreement from the manufacturer" from Part 1.5 (Quality Assurance), Paragraph B, Item 2.
- **REVISE** Part 1.5 (Quality Assurance), Paragraph B, Item 3 to "Installers must be experienced in similar security camera installations. Provide proof of the certification and provide at least five completed installations using the similar security camera equipment. Provide building name and contact person information. Owner reserves the right to inspect the systems used as references.
- REVISE Specification Section 28 3111 DIGITAL ADDRESSABLE FIRE ALARM SYSTEM; ISSUED FOR BID, dated 03/16/2020.
 - **REVISE** Part 2.1 (System Description), Paragraph B, Item 1 to "Silent Knight Farenhyt Series by Honeywell."
 - **REVISE** Part 2.11 (Magnetic Door Holders), Paragraph A, Item 3 to "Rating: 24-V AC or DC, powered through fire alarm system."
 - DELETE Part 2.11 (Magnetic Door Holders), Paragraph A, Item 4.

PART 3 DRAWINGS

- 3.1 CIVIL/LANDSCAPE
 - 1. **REVISE** Drawing Sheet C-0A COVER SHEET; Issued for Bid, dated 03/06/2020.
 - ADD "See Detail 10, Sheet C-3E" to "Poured Playground Surface" item in "PROPOSED LEGEND."
 - DELETE Drawing Sheet C-1B PHASE 1 DEMOLITION PLAN; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet C-1B – PHASE 1 DEMOLITION PLAN; ADDENDUM #3, (Revision dated 04/03/2020).
 - **REVISED** scope of demolition work to include on-site walking path adjacent to the existing Waverley facility.
 - DELETE Drawing Sheet C-1D PHASE 3 DEMOLITION PLAN; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet C-1D – PHASE 3 DEMOLITION PLAN; ADDENDUM #3, (Revision dated 04/03/2020).
 - **REVISED** scope of demolition work to include steps and subsequent on-site path from Stonegate.
 - 4. **REVISE** Drawing Sheet C-2B PHASE 1 SEDIMENT CONTROL PLAN; Issued for Bid, dated 03/06/2020.
 - ADD 22' dimension string to on-site access road width.
 - REVISE Drawing Sheet C-2C PHASE 1 SEDIMENT CONTROL PLAN; Issued for Bid, dated 03/06/2020.
 - ADD 22' dimension string to on-site access road width.
 - DELETE Drawing Sheet C-3A OVERALL SITE PLAN; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet C-3A – OVERALL SITE PLAN; ADDENDUM #3, (Revision dated 04/03/2020).
 - **REVISED** extents of poured-in-place playground surfacing.

- 7. **DELETE** Drawing Sheet C-3B SITE PLAN; Issued for Bid, dated 03/06/2020; **ADD** Drawing Sheet C-3B SITE PLAN; ADDENDUM #3, (Revision dated 04/03/2020).
 - REVISED extents of poured-in-place playground surfacing.
- 8. **DELETE** Drawing Sheet C-3E SITE DETAIL; Issued for Bid, dated 03/06/2020; **ADD** Drawing Sheet C-3E SITE DETAIL; ADDENDUM #3, (Revision dated 04/03/2020).
 - ADDED Detail 10 of typical poured-in-place playground surfacing.
- DELETE Drawing Sheet C-4H STORMDRAIN PROFILES; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet C-4H – STORMDRAIN PROFILES; ADDENDUM #3, (Revision dated 04/03/2020).
 - REVISED profiles to and from UGS-1.
 - **REVISED** Storm Trap notes.
- 10. **DELETE** Drawing Sheet C-4S UGS DETAILS; Issued for Bid, dated 03/06/2020; **ADD** Drawing Sheet C-4S UGS DETAILS; ADDENDUM #3, (Revision dated 04/03/2020).
 - **REVISED** underground structure plan.
- 3.2 ARCHITECTURAL
 - DELETE Drawing Sheet AC.1 CONSTRUCTION TYPES; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet AC.1 – CONSTRUCTION TYPES; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED** wall Type D.02 drawing label.
 - **REVISED** fire ratings of select CMU interior partitions.
 - 2. **DELETE** Drawing Sheet AC.3 TYPICAL DETAILS; Issued for Bid, dated 03/06/2020; **ADD** Drawing Sheet AC.3 TYPICAL DETAILS; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED** keynote number for roof drain.
 - **ADDED** "SIDEWALK AT THRESHOLD, TYP" detail.
 - **REVISED** sequencing of drawing numbers.
 - DELETE Drawing Sheet AS.1 ARCHITECTURAL SITE PLAN; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet AS.1 – ARCHITECTURAL SITE PLAN; ADDENDUM #3 (Revision dated 04/03/2020).
 - ADDED playground equipment locations.
 - DELETE Drawing Sheet AS.3 ARCHITECTURAL ENLARGED SITE PLAN; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet AS.1 – ARCHITECTURAL ENLARGED SITE PLAN; ADDENDUM #3 (Revision dated 04/03/2020).
 - ADDED playground equipment configurations and locations.
 - DELETE Drawing Sheet A1.5 FIRST FLOOR PLAN AREA E; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet A1.5 – FIRST FLOOR PLAN – AREA E; ADDENDUM #3 (Revision dated 04/03/2020).
 - ADDED column grid 49.5.
 - ADDED exterior window types.
 - REVISE Drawing Sheet A1.8 SECOND FLOOR PLAN AREA B; Issued for Bid, dated 03/06/2020.

- ADD view reference to 2/A3.2 for windows in rooms B208, B209, B212 and B213 that are not visible in plan due to high sills.
- REVISE Drawing Sheet A1.10 SECOND FLOOR PLAN AREA F; Issued for Bid, dated 03/06/2020.
 - **ADD** dimensional location of 2'-4" from exterior face of wall type "C.12" adjacent and parallel to column line "BC" to left jamb of window type "A" in STAIR F214.
 - **ADD** dimensional location of 19'-0" from exterior face of wall type "B.01" adjacent and parallel to column line "4" to left jamb of window type "C" in STAIR F208.
- DELETE Drawing Sheet A4.2 BUILDING SECTIONS; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet A4.2 – BUILDING SECTIONS; ADDENDUM #3 (Revision dated 04/03/2020).
 - ADDED Mechanical Penthouse C201 floor slab (was missing in view).
- 9. **REVISE** Drawing Sheet A4.4 WALL SECTIONS; Issued for Bid, dated 03/06/2020.
 - **DELETE** references to detail 11/A6.13.
- 10. **REVISE** Drawing Sheet A4.6 WALL SECTIONS; Issued for Bid, dated 03/06/2020.
 - **DELETE** references to detail 11/A6.13.
- 11. REVISE Drawing Sheet A4.7 WALL SECTIONS; Issued for Bid, dated 03/06/2020.
 - DELETE references to detail 11/A6.13.
- 12. **REVISE** Drawing Sheet A6.13 SECTION DETAILS; Issued for Bid, dated 03/06/2020.
 - DELETE detail 11/A6.13 (redundant).
- 13. REVISE Drawing Sheet A6.15 SECTION DETAILS; Issued for Bid, dated 03/06/2020.
 - DELETE detail 8/A6.15 (redundant).
- 14. **DELETE** Drawing Sheet A8.1 DOOR SCHEDULE; Issued for Bid, dated 03/06/2020; **ADD** Drawing Sheet A8.1 DOOR SCHEDULE; ADDENDUM #3 (Revision dated 04/03/2020).
 - ADDED head/jamb details references for select exterior doors.
- DELETE Drawing Sheet A8.2 OPENING TYPES & DETAILS; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet A8.2 – OPENING TYPES & DETAILS; ADDENDUM #3 (Revision dated 04/03/2020).
 - ADDED head/jamb details for exterior doors at metal panel wall types.
 - **REVISED** waterproofing/vapor barrier tie-in at T1 thresholds.
 - **REVISED** head/jamb details for exterior overhead door.
 - **REVISED** jamb labels for types B.01, B.12 and B.13.
 - **REVISED** jamb detail at fire curtain.
- DELETE Drawing Sheet A8.3 GLAZING SCHEDULE EXTERIOR CURTAINWALL; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet A8.3 – GLAZING SCHEDULE – EXTERIOR CURTAINWALL; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED/ADDED** sill detail references for all types for clarity.
 - ADDED 3" cap locations.
- 17. **REVISE** Drawing Sheet A8.5 GLAZING SCHEDULE INTERIOR; Issued for Bid, dated 03/06/2020.

- REVISE overall length of "S.Z" is to 10'-6 3/4".
- 3.3 STRUCTURAL
 - DELETE Drawing Sheet S1.1 FOUNDATION PLAN AREA A; Issued for Bid, dated 03/06/2020. ADD Drawing Sheet S1.1 – FOUNDATION PLAN – AREA A; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED** select foundation wall locations.
 - DELETE Drawing Sheet S1.2 FOUNDATION PLAN AREA B; Issued for Bid, dated 03/06/2020. ADD Drawing Sheet S1.2 – FOUNDATION PLAN – AREA B; ADDENDUM #3 (Revision dated 04/03/2020).
 - REVISED select foundation sizes and column locations at main and bus entries.
 - ADDED Detail A, "COLUMN C3A BASE DETAIL".
 - **DELETED** reference to roof ladder attachment detail; to be detail by architectural in Addendum #2.
 - DELETE Drawing Sheet S1.8 FLOOR & LOW ROOF FRAMING PLAN AREA B; Issued for Bid, dated 03/06/2020. ADD Drawing Sheet S1.8 – FLOOR & LOW ROOF FRAMING PLAN – AREA B; ADDENDUM #3 (Revision dated 04/03/2020).
 - REVISED select member sizes and section references at bus entry.
 - DELETE Drawing Sheet S1.13 ROOF FRAMING PLAN AREA B; Issued for Bid, dated 03/06/2020. ADD Drawing Sheet S1.13 – ROOF FRAMING PLAN – AREA B; ADDENDUM #3 (Revision dated 04/03/2020).
 - **ADDED** column line notations for AF and AF.1 for clarity.
 - **DELETED** reference to roof ladder attachment detail; to be detail by architectural in Addendum #2.
 - DELETE Drawing Sheet S3.2 TYPICAL MASONRY DETAILS; Issued for Bid, dated 03/06/2020. ADD Drawing Sheet S3.2 – TYPICAL MASONRY DETAILS; ADDENDUM #3 (Revision dated 04/03/2020).
 - **ADDED** loose lintel detail at 1" brick reveal.
 - DELETE Drawing Sheet S3.3 FOUNDATION SECTIONS; Issued for Bid, dated 03/06/2020. ADD Drawing Sheet S3.3 – FOUNDATION SECTIONS; ADDENDUM #3 (Revision dated 04/03/2020).
 - REVISED dimensions at exterior labeled from "FINISH GRADE" for clarity.
 - REVISED Detail 6.
 - 7. **REVISE** Drawing Sheet S3.4 FOUNDATION SECTIONS; Issued for Bid, dated 03/06/2020.
 - ADD "FINISH GRADE" to dimensions from exterior ground plane for clarity.
 - DELETE Drawing Sheet S4.2 FLOOR FRAMING SECTIONS; Issued for Bid, dated 03/06/2020. ADD Drawing Sheet S4.2 – FLOOR FRAMING SECTIONS; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED** detail 11.
 - DELETE Drawing Sheet S4.4 FLOOR FRAMING SECTIONS; Issued for Bid, dated 03/06/2020. ADD Drawing Sheet S4.4 – FLOOR FRAMING SECTIONS; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED** Details 6, 7 and 8.

- **REVISED** pour stop/angle size at top of stair in Detail 5.
- 10. **REVISE** Drawing Sheet S5.1 JOIST LOAD DIAGRAMS; Issued for Bid, dated 03/06/2020.
 - REVISE brick dead load for "16KSP2 Joist Load Diagram" to 345 PLF.

3.4 MECHANICAL/ELECTRICAL

- REVISE Drawing Sheet M1.1 FIRST FLOOR PLAN AREA A; Issued for Bid, dated 03/06/2020.
 - REVISED exhaust air grille E5 in Restroom A115A from 325 CFM to 400 CFM.
 - **REVISED** exhaust air grille E5 in Restroom A115B from 325 CFM to 400 CFM.
- REVISE Drawing Sheet M1.2 FIRST FLOOR PLAN AREA B; Issued for Bid, dated 03/06/2020.
 - **REVISED** VRF 6.22 area served to A105 Break-Out.
 - **ADDED** manual volume damper after 18" x 14" transition in Corridor B100A in 14" x 18" return air duct serving Classroom B109/VRF 6.10.
- DELETE Drawing Sheet M1.5 FIRST FLOOR PLAN AREA E; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet M1.5 – FIRST FLOOR PLAN – AREA E; ADDENDUM #3 (Revision dated 04/03/2020).
 - **ADDED** transfer air grille R2 24x24 face/10x10 neck in Break-Out E125 and 12x12 face/10x10 neck in Restroom E126 with 12x10 sound-lined transfer air duct (drawing note 16) and combination smoke damper from Breakout E125 to Restroom E126.
 - **REVISED** exhaust air grille E2/75 CFM to 150 CFM in Restroom E126.
 - ADDED manual volume damper in 10x10 outside air duct in Corridor C127A.
- 4. **REVISE** Drawing Sheet M1.6 FIRST FLOOR PLAN AREA F; Issued for Bid, dated 03/06/2020.
 - **ADDED** manual volume damper for VRF 3.15 supply connections to linear slot diffuser L2 in Corridor F100B.
 - REVISE exhaust air grille E5 in Restroom F105B from 300 CFM to 400 CFM.
 - REVISED exhaust air grille E5 in Restroom F105A from 300 CFM to 400 CFM.
- REVISE Drawing Sheet M1.7 SECOND FLOOR PLAN AREA A; Issued for Bid, dated 03/06/2020.
 - ADDED manual volume damper to 14" x 8" return air duct serving Restroom A216B.
 - **ADDED** manual volume damper to 14" x 8" return air duct after 18" x 14" duct in Corridor A200B serving Classroom A207.
 - **ADDED** manual volume damper to 14" x 8" return air duct connecting to 18" x 14" duct in Corridor A200B serving Classroom A209.
 - **REVISED** exhaust air grille E5 in Restroom A216A from 375 CFM to 450 CFM.
 - **REVISED** exhaust air grille E5 in Restroom A216B from 375 CFM to 450 CFM.
- REVISE Drawing Sheet M1.8 SECOND FLOOR PLAN AREA B; Issued for Bid, dated 03/06/2020.
 - ADDED 215 CFM to return air grille R7 in Corridor B200A.
 - **REVISED** thermostat "8.17" to "8.17, 8.16".

- DELETE Drawing Sheet M1.9 SECOND FLOOR PLAN AREA F; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet M1.9 – SECOND FLOOR PLAN – AREA F; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED** thermostat "8.14, 8.16" to "8.14".
 - REVISED exhaust air grille E5 in Restroom F206A from 375 CFM to 450 CFM.
 - REVISED exhaust air grille E5 in Restroom F206B from 375 CFM to 450 CFM.
 - **ADDED** transfer air grille R2 with 12" x 12" sound-lined transfer air duct (drawing note 18) with CD to Restroom F206A and Storage F205.
- 8. **REVISE** Drawing Sheet M9.1 AIR HANDLING UNIT SCHEDULE; Issued for Bid, dated 03/06/2020.
 - REVISE ELECTRIC CABINET UNIT HEATER CUH-10 "area served" to "Stair 113A".
- REVISE Drawing Sheet M9.3 VRF SYSTEM SCHEDULE; Issued for Bid, dated 03/06/2020.
 - **REVISE** VRF 6.22 "area served" to "A105 BREAK-OUT".
- REVISE Drawing Sheet M9.4 MISCELLANEOUS MECH. EQUIP. SCHEDULE; Issued for Bid, dated 03/06/2020.
 - REVISE F-14 Interlock from "DOAS-2" to "DOAS-1".
- DELETE Drawing Sheet E1.2 FIRST FLOOR PLAN AREA B POWER; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet E1.2 – FIRST FLOOR PLAN – AREA B – POWER; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED** Classroom B104 layout as indicated.
- DELETE Drawing Sheet E1.7 SECOND FLOOR PLAN AREA A POWER; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet E1.7 – SECOND FLOOR PLAN – AREA A – POWER; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED** classroom layouts as indicated.
- DELETE Drawing Sheet E1.8 SECOND FLOOR PLAN AREA B POWER; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet E1.8 – SECOND FLOOR PLAN – AREA B – POWER; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED** classroom layouts as indicated.
- DELETE Drawing Sheet E1.9 SECOND FLOOR PLAN AREA F POWER; Issued for Bid, dated 03/06/2020; ADD Drawing Sheet E1.9 – SECOND FLOOR PLAN – AREA F – POWER; ADDENDUM #3 (Revision dated 04/03/2020).
 - **REVISED** classroom layouts as indicated.

PART 4 ATTACHMENTS

4.1 SPECIFICATIONS

Section 06 4100 – ARCHITECTURAL WOOD CASEWORK

Section 11 6813 - PLAYGROUND EQUIPMENT

Section 12 3200 – MANUFACTURED WOOD CASEWORK

Section 12 3600 - COUNTERTOPS

- 4.2 FULL SIZE DRAWINGS
 - C-1B PHASE 1 DEMOLITION PLAN
 - C-1D PHASE 3 DEMOLITION PLAN
 - C-3A OVERALL SITE PLAN
 - C-3B SITE PLAN
 - C-3E SITE DETAIL
 - C-4H STORMDRAIN PROFILES
 - C-4S UGS DETAILS
 - AC.1 CONSTRUCTION TYPES
 - AC.3 TYPICAL DETAILS
 - AS.1 ARCHITECTURAL SITE PLAN
 - AS.3 ARCHITECTURAL ENLARGED SITE PLAN
 - A1.5 FIRST FLOOR PLAN AREA E
 - A4.2 BUILDING SECTIONS
 - A8.1 DOOR SCHEDULE
 - A8.2 OPENING TYPES & DETAILS
 - A8.3 GLAZING SCHEDULE EXTERIOR CURTAINWALL
 - S1.1 FOUNDATION PLAN AREA A
 - S1.2 FOUNDATION PLAN AREA B
 - S1.8 FLOOR & LOW ROOF FRAMING PLAN AREA B
 - S1.13 ROOF FRAMING PLAN AREA B
 - S3.2 TYPICAL MASONRY DETAILS
 - S3.3 FOUNDATION SECTIONS
 - S4.2 FLOOR FRAMING SECTIONS
 - S4.4 FLOOR FRAMING SECTIONS
 - M1.5 FIRST FLOOR PLAN AREA E
 - M1.9 SECOND FLOOR PLAN AREA F
 - E1.2 FIRST FLOOR PLAN AREA B POWER
 - E1.7 SECOND FLOOR PLAN AREA A POWER
 - E1.8 SECOND FLOOR PLAN AREA B POWER
 - E1.9 SECOND FLOOR PLAN AREA F POWER

All other specifications and terms remain as stated in the original documents. This addendum is hereby made a part of the Contract Documents, on which the contract is based and is intended to modify, explain, correct and/or add to the original Contract Documents.

END OF ADDENDUM

SECTION 06 4100 - ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

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- 1.1 SECTION INCLUDES
 - A. Specially fabricated cabinet units.
 - B. Cabinet hardware.

1.2 REFERENCE STANDARDS

- A. AWI (QCP) Architectural Woodwork Institute, Quality Certification Program; current edition: www.awiqcp.org.
- B. BHMA A156.9 American National Standard for Cabinet Hardware; Builders Hardware Manufacturers Association (ANSI/BHMA A156.9).
- C. NEMA LD 3 High-Pressure Decorative Laminates; National Electrical Manufacturers Association.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting not less than one week before starting work of this section; require attendance by all affected installers.

1.4 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements, for submittal procedures.
- B. LEED Submittals: Comply with Section 01 3329 Sustainable Design Requirements LEED v4/v4.1.
 - 1. MR Credit 2: BPDO Environmental Product Declarations
 - a. For composite wood: Product-specific declaration or Industry-wide EPD or product-specific EPD. Include EPD Summary.
 - 2. MR Credit 3: BPDO Sourcing of Raw Materials
 - a. For recycled content composite wood: Documentation indicating percentages by weight pre-consumer and post-consumer recycled content. Include material cost value.
 - b. For certified wood: Documentation indicating percentage new wood, percentage FSC and Chain-of-Custody (CoC) certificates indicating compliance with forest certification requirements. Include vendor invoice indicating FSC CoC.
 - 3. MR Credit 4: BPDO Material Ingredients
 - a. For composite wood and plastic finishes provide Material Ingredient Report.
 - 4. EQ Credit 2: Low-Emitting Materials
 - a. For composite wood installed within the building interior: Documentation indicating compliance with California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM), Phase II for ultra-low-emitting formaldehyde (ULEF) resins or containing no added formaldehyde resins.

- C. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, countertops (Section 12 3600) and accessories.
 - 1. Minimum Scale of Detail Drawings: 1-1/2 inch to 1 foot.
 - 2. Provide the information required by the AWI QCP, current edition.
- D. Product Data: Provide data for hardware accessories.
- E. Samples: Submit actual samples of architectural cabinet construction, minimum 12 inches square, illustrating proposed cabinet substrate and finish.
- F. Samples: Submit actual sample items of proposed hinges and locksets, demonstrating hardware design, quality, and finish.
- 1.5 QUALITY ASSURANCE

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- A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
 - 1. Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.
 - 2. Accredited participant in the specified certification program prior to the commencement of fabrication and throughout the duration of the project.
- B. Quality Certification: Provide AWI Quality Certification Program inspection report and quality certification of completed work.
 - 1. Provide labels or certificates indicating that the work complies with requirements of AWI Grade or Grades specified.
 - 2. Register with AWI QCP and provide project number(s) with shop drawings.
 - 3. Prior to delivery to the site provide shop drawings with certification labels.
 - 4. Provide labels on each product when required by certification program.
 - 5. Upon completion of installation provide certificate certifying that the installation and products meet the specified requirements.
 - 6. Arrange and pay for inspections required for certification.
 - 7. Replace, repair, or rework all work for which certification is refused.
- C. Quality Expectations: Materials must be designed, constructed and installed to meet the intended use and expected abuse to be incurred within the educational environment. This specification outlines the minimum requirements for material quality, construction, finish and overall workmanship to be provided. The finished products shall be functional, have an extended life expectancy with minimal maintenance and be operationally safe.
- 1.6 DELIVERY, STORAGE, AND HANDLING
 - A. Protect units from moisture damage.
- 1.7 FIELD CONDITIONS
 - A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.1 CABINETS

- A. Quality Grade: Unless otherwise indicated provide products of quality specified by AWI Standards for Custom Grade.
- B. Plastic Laminate Faced Cabinets: Custom grade.

C. Cabinets :

- 1. Finish Exposed Exterior Surfaces: Decorative laminate.
- 2. Finish Exposed Interior Surfaces: Decorative laminate.
- 3. Finish Semi-concealed Surfaces: Decorative laminate.
- 4. Finish Concealed Surfaces: Decorative laminate.
- 5. Door and Drawer Front Edge Profiles: Radius edge with PVC plastic edge banding.
- 6. Grained Face Layout for Cabinet and Door Fronts: Flush panel.
 - a. Custom Grade: Doors, drawer fronts and false fronts wood grain to run and match vertically within each cabinet unit.
- 7. Adjustable Shelf Loading: 50 lbs. per sq. ft..
- 8. Cabinet Style: Flush overlay.
- 9. Cabinet Doors and Drawer Fronts: Flush style.
- 10. Drawer Side Construction: Multiple-dovetailed.
- 11. Drawer Construction Technique: Dovetail joints.
- 2.2 WOOD-BASED COMPONENTS
 - A. Wood fabricated from old growth timber is not permitted.
 - B. Sustainable Design Requirements:
 - 1. Forest Certification: Provide wood products harvested from forests certified by an FSC-accredited certification body. All non-FSC wood in assemblies with FSC-certified wood shall meet the FSC Controlled Wood (CW) criteria.
 - 2. Compliance with California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM), Phase II for ultra-low-emitting formaldehyde (ULEF) resins or containing no added formaldehyde resins.
 - 3. Composite Wood:
 - a. Product-specific declaration or Industry-wide EPD or product-specific EPD. Include EPD Summary.
 - b. For recycled content composite wood: Documentation indicating percentages by weight pre-consumer and post-consumer recycled content. Include material cost value.

2.3 LAMINATE MATERIALS

- A. Manufacturers:
 - 1. Formica Corporation: www.formica.com.
 - 2. Panolam Industries International, Inc\Nevamar: www.nevamar.com.
 - 3. Wilsonart International, Inc: www.wilsonart.com.
- B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.

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2.4 ACCESSORIES

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- A. Adhesive: Type recommended by AWI Standards, current edition, to suit application.
 1. Adhesives Used for Assembly: Comply with VOC requirements for adhesives and sealants as specified in Section 01 6116.
- B. Plastic Edge Banding: Extruded PVC, convex shaped; smooth finish; self locking serrated tongue; of width to match component thickness.
 - 1. Size: 1mm at cabinet faces and shelf edges, 3mm at door and drawer fronts.
 - 2. Color: As selected by Architect from manufacturer's custom range.
- C. Fasteners: Size and type to suit application.
- D. Grommets: Standard plastic, painted metal, or rubber grommets for cut-outs, in color to match adjacent surface.

2.5 HARDWARE

- A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.
- B. Adjustable Shelf Supports: Standard side-mounted system using multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch spacing adjustments.
- C. Drawer and Door Pulls: "U" shaped wire pull, steel with satin finish, 4 inch centers.
- D. Cabinet Locks: Keyed cylinder, six keys per lock, master keyed, steel with satin finish.
 1. Individual rooms to be keyed alike.
- E. Hinges: European style concealed self-closing type, steel with polished finish.
- 2.6 FABRICATION
 - A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.
 - B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
 - C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.
 - D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.
 - 1. Cap exposed plastic laminate finish edges with extruded PVC plastic edge banding.
 - E. Provide cutouts for all penetrations. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.
- 2.7 SHOP FINISHING

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A. Finish work in accordance with AWI Standards, current edition, for Grade specified.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify adequacy of backing and support framing.
- B. Verify location and sizes of utility rough-in associated with work of this section.

3.2 INSTALLATION

- A. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.
- B. Use fixture attachments in concealed locations for wall mounted components.
- C. Use concealed joint fasteners to align and secure adjoining cabinet units.
- D. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.
- E. Countersink anchorage devices at exposed locations. Conceal with solid wood plugs of species to match surrounding wood; finish flush with surrounding surfaces.

3.3 ADJUSTING

A. Adjust moving or operating parts to function smoothly and correctly.

3.4 CLEANING

A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

END OF SECTION

SECTION 11 6813 - PLAYGROUND EQUIPMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Concrete footings for playground equipment.
- B. Playground equipment.

1.2 DEFINITIONS

- A. Play Event: A piece of playground equipment that supports one or more play activities.
- B. Use Zone: Area under and around a play event within which the ground surfacing must meet fall impact attenuation requirements of ASTM F1292 when tested at the fall height specified for the play event.
- C. Fall Height: Vertical distance between the finished elevation of the designated play surface and the finished elevation of the protective surfacing beneath it, as defined in ASTM F1487.
- D. Protective Surfacing: Resilient ground surfacing. The characteristics of the protective surfacing are based on the fall height of the playground equipment. Changes in either the surfacing or the fall height, particularly reducing the resilience of the protective surfacing or increasing the fall height, will reduce safety-related performance.
- E. Subgrade: Surface of the ground on which the protective surfacing is installed; the subbase for the protective surfacing is installed over the subgrade.

1.3 REFERENCE STANDARDS

- A. ASTM A123/A123M Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- B. ASTM A135/A135M Standard Specification for Electric-Resistance-Welded Steel Pipe.
- C. ASTM A500/A500M Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
- D. ASTM A513/A513M Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing.
- E. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- F. ASTM B221M Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric).
- G. ASTM D3363 Standard Test Method for Film Hardness by Pencil Test.
- H. ASTM F1292 Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment.

- I. ASTM F1487 Standard Consumer Safety Performance Specification for Playground Equipment for Public Use.
- J. AWPA U1 Use Category System: User Specification for Treated Wood.
- K. CPSC Pub. No. 325 Public Playground Safety Handbook.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meetings: Convene a meeting one week before starting earthwork for playground to discuss coordination between various installers.
 - 1. Require attendance by personnel responsible for grading and installers of playground equipment, protective surfacing, footings, and adjacent work.
 - 2. Include representatives of Contractor.
 - 3. Notify Architect at least 2 weeks prior to meeting.

1.5 SUBMITTALS

- A. Product Data: For manufactured equipment, provide manufacturer's product data showing materials of construction, compliance with specified standards, installation procedures, safety limitations, and the number of users permitted.
 - 1. Certifications: Provide International Play Equipment Manufacturers Association (IPEMA) certification that product complies with ASTM F1487, excluding section 10 and 12.6.1.
- B. Product Data: For fabricated items, provide the following:
 - 1. Galvanized Steel: Certification of galvanized coating thickness.
- C. Shop Drawings: Detailed scale drawings showing play event layout, Use Zone perimeters, and fall height for each play event.
 - 1. Show locations and dimensions of footings and anchorage points.
 - 2. Clearly identify mounting elevations in relation to a fixed survey point on site and to subgrade elevation and depth of protective surfacing.
 - 3. Show locations of underground utilities, storm drainage system and irrigation system.
 - 4. Show locations of related construction such as walkways and roadways, fences, site furnishings, and plantings.
- D. Samples: For each item that a color must be selected, provide color chart showing full range of colors and finishes.
- E. Maintenance Data: Provide manufacturer's recommended maintenance instructions and list of replaceable parts for each equipment item, with address and phone number of source of supply.
- F. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.6 QUALITY ASSURANCE

- A. Maintain one copy of the latest edition of ASTM F1487 and CPSC Pub. No. 325 at project site.
- B. Installer Qualifications: Company certified by manufacturer for training and experience installing play events and equipment.

- 1.7 DELIVERY, STORAGE, AND HANDLING
 - A. Deliver, handle, and store equipment to project site in accordance with manufacturer's recommendations.
 - B. Store materials in a dry, covered area, elevated above grade.

1.8 WARRANTY

A. Provide minimum 10 year warranty for playground equipment.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Playground Equipment:
 - 1. GameTime, Inc: www.gametime.com/#sle.
 - 2. MaxPlayFit: www.maxplayfit.com/.
 - 3. Playground Specialists, Inc.: www.playspec.com/.
 - 4. Taylor Sports and Recreation: www.miracle-recreation.com/.

2.2 PLAYGROUND EQUIPMENT - GENERAL

- A. Design Assumptions: Because the safety of the playground depends on strict conformance to the design criteria, this information is provided for Contractor's information.
 - 1. Playground has been designed for children ages 2 through 5 and 5 through 12, respectively.
 - 2. Separate areas for different age groups are indicated on drawings.
 - 3. If deviations from specified dimensions, especially fall heights, is required, obtain approval prior to proceeding; follow approval request procedure as specified for substitutions.
- B. Mount equipment on concrete footings, unless otherwise indicated.
 - 1. Protective Surfacing Depth: Refer to Section 32 1816.13.
 - 2. Provide supports as required to mount equipment at proper height above finish and sub-grades to allow installation of sufficient depth of protective surfacing; portion of support below top of surfacing must conform to specified requirements for equipment.
 - 3. Paint portion of support that is intended to be installed below top surface of protective surfacing a different color, or mark in other permanent way, so that installers and maintainers of protective surfacing can easily determine whether sufficient depth has been installed.
- C. Provide permanent label for each equipment item stating age group that equipment was designed for, manufacturer identification, and warning labels in accordance with ASTM F1487.

2.3 PLAYGROUND EQUIPMENT

- A. Conform to ASTM F1487 and CPSC Pub. No. 325; provide equipment conforming to specific requirements for relevant age group(s).
 - 1. Provide components having factory-drilled holes; do not use components with extra holes that will not be filled by hardware or covered by other components.
- B. Slides: Slide bed, ship's ladder with handrails, and platform.

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- 1. Slide Bed: Rigid, molded ultraviolet stabilized polyethylene, with anti-static additives, segmented enclosed tube construction.
- 2. Treads and Handrails: Galvanized steel with stringers of galvanized steel.
- 3. Fall Height Ages Two to Five: 30 inches, maximum.
- 4. Fall Height Ages Five to Twelve: 48 inches, maximum.
- 5. Width: 14 inches.
- 6. Maximum Slope: 30 degrees.
- 7. Supports and Platform: Galvanized steel with powder coating.
- 8. Color: As selected from manufacturer's standard color palette.
- 9. Certification: Provide International Play Equipment Manufacturers Association (IPEMA) certification that indicates product complies with ASTM F1487, excluding sections 7.1.1, 10, and 12.6.1.
- C. Freestanding Climbers:
 - 1. Location: As indicated on drawings.
 - 2. Certification: Provide International Play Equipment Manufacturers Association (IPEMA) certification that indicates product complies with ASTM F1487, excluding sections 7.1.1, 10, and 12.6.1.

2.4 CUSTOM PLAY STRUCTURES

- A. Materials, Configuration, and Dimensions: To resemble Robinia Series, "Parkour" structures by Kompan.
 - 1. There shall be a flow and continuous movement among all of the elements and apparatuses. This element of flow shall allow students to develop their cardiovascular respiratory endurance as well as their muscular strength and endurance as they move throughout the structure(s).
- B. Fabricate in accordance with ASTM F1487, unless otherwise indicated; in particular, requirements for sharp points and edges, protrusions, entanglement hazards, crush and shear points, and head and neck entrapment.
- C. Sliding Poles: Hot-dipped galvanized steel pipe, 1-5/8 inch diameter, maximum; continuous surface with no protruding welds or joints along the sliding area.
- D. Flexible Climber: Flexible grid of ropes to provide access to an elevated platform; anchored at both ends; ground anchor below bottom of protective surfacing.

2.5 MATERIALS

- A. Steel Pipe and Tube: Conforms to ASTM A135/A135M, ASTM A500/A500M, or ASTM A513/A513M; hot-dipped galvanized and free of excess weld and spatter.
 - 1. Tensile Strength: 45,000 psi, minimum.
 - 2. Yield Point: 33,000 psi, minimum.
 - 3. Galvanizing: Hot-dip metal components in zinc after fabrication, in accordance with ASTM A123/A123M; remove tailings and sharp protrusions and burnish edges.
- B. Extruded Aluminum: ASTM B221 or ASTM B221M, Alloy 6061, 6062, or 6063.
 - 1. Tensile Strength: 39,000 psi, minimum.
 - 2. Yield Point: 36,500 psi, minimum.
- C. Rope Cable: Strands of steel cable with UV-stabilized polypropylene synthetic covering; ends capped to prevent fraying.

- D. Hardware: Provide without hazardous protrusions, corners, or finishes, and that require tools for removal after installation; countersunk fasteners are preferred.
 - 1. Use stainless steel for metal-to-metal connections; select type to minimize galvanic corrosion of materials connected by hardware.
 - 2. Use stainless steel for wood-to-wood and wood-to-metal connections.
 - 3. Use stainless steel with plastic components.
 - 4. Bearings: Self lubricating.
 - 5. Hooks, Including S-Hooks: Closed loop; maximum gap 0.04 inches, less than the thickness of a dime.
 - 6. Rails, Loops, and Hand Bars: Same metal as item is mounted on or steel; with polyvinyl chloride coating.
 - 7. Anchors: In accordance with manufacturer's recommendations.
- E. Boards and Timbers: Free of holes, cracks, and loose knots; do not use wood or wood coatings that contain pesticides; do not utilize used lumber.
 - 1. Preservative Treatment: Pressure type in accordance with AWPA U1 Use Category 4A Commodity B; do not use chromated copper arsenate (CCA), creosote, pentachlorophenol, tributyl tin oxide, or any other treatment prohibited by law; treat cuts after fabrication using brushed-on preservative.
- F. Powder Coating for Steel: Electrostatically applied and oven cured polyester powder over electrostatic zinc coating.
- G. Polyvinyl Chloride (PVC) Coating: Ultraviolet (UV) stabilized and mold-resistant; slip-resistant finish; prime parts to be coated with clear acrylic thermosetting solution, and preheat prior to dipping in liquid PVC.
 - 1. Thickness: 0.08 inch, minimum, plus/minus 0.02 inch.
 - 2. Hardness: 85 durometer, when tested in accordance with ASTM D3363.
- H. Concrete: As specified in Section 03 3000.

PART 3 EXECUTION

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- 3.1 VERIFICATION OF CONDITIONS
 - A. Verify location of underground utilities and facilities in playground area; damage to underground utilities and facilities will be repaired at Contractor's expense.
- 3.2 PREPARATION
 - A. Stake location of playground elements, including Use Zone perimeters, perimeter of protective surfacing, access and egress points, hard surfaces, walls, fences, and structures, and planting locations.
 - B. Stake layout of entire Use Zone perimeter before starting any work and before subbase under resilient surfacing is laid.
 - 1. Verify that Use Zone perimeters do not overlap hard surfaces, whether currently installed or not.
 - 2. Verify that Use Zones are free of obstructions that would extend into resilient portion of protective surfacing.
 - 3. If conflicts or obstructions exist, notify Architect.

GWWO Project No. 18045 Waverley Elementary School Replacement ADDENDUM #3 - 04/03/2020 4. Do not proceed until revised drawings have been provided, showing corrected layout, and obstructions have been removed.

3.3 INSTALLATION

- A. Coordinate work with preparation for and installation of protective surfacing specified in Section 32 1816.13; install resilient portion of protective surfacing after playground equipment installation.
- B. Install concrete footings with top surface a minimum of 1/2 inch below required subgrade elevation.
- C. Install in accordance with CPSC Pub. No. 325, ASTM F1487, manufacturer's instructions, and requirements of authorities having jurisdiction (AHJ).
- D. Anchor equipment securely below bottom elevation of resilient surfacing layer.
- E. Install without sharp points, edges or protrusions, entanglement hazards, pinch, crush, or shear points.
- F. Do not modify play events on site without written approval of manufacturer.
- G. Install required signage if not factory-installed.

3.4 FIELD QUALITY CONTROL

- A. Obtain the services of the equipment manufacturer's field representative to review the finished installation for compliance with specified requirements and with design criteria to the extent known to the Contractor; submit report of field review.
- B. Owner or Owner's representative will inspect playground equipment after installation to verify that playground meets specified design safety and accessibility requirements.
- C. Repair or replace rejected work until compliance is achieved.

3.5 CLEANING

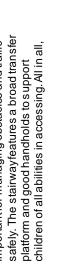
- A. Restore adjacent existing areas that have been damaged from the construction.
- B. Clean playground equipment of construction materials, dirt, stains, filings, and blemishes due to shipment or installation; clean in accordance with manufacturer's instructions, using cleaning agents as recommended by manufacturer.
- C. Clean playground area of excess construction materials, debris, and waste.
- D. Remove excess and waste material and dispose of off-site in accordance with requirements of authorities having jurisdiction.

3.6 PROTECTION

- A. Protect installed products until Date of Substantial Completion.
- B. Replace damaged products before Date of Substantial Completion.

END OF SECTION

GWWO Project No. 18045 Waverley Elementary School Replacement ADDENDUM #3 - 04/03/2020

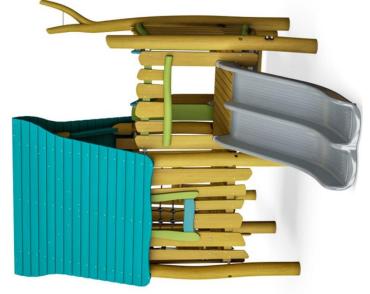


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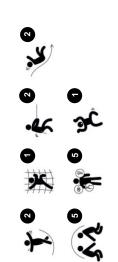
PRE-KINDERGARTEN PLAY STRUCTURE (1)

- FOR DESIGN INTENT ONLY -





Item no. NRO409-0621	D409-0621
General Product Information	ct Information
Dimensions LxWxH	14'11''x10'6''x10'9''
Age Group	2-5
Play Capacity	11 children
Color Options	





hours of magic play together.

fundamental for building up an understanding of benefit motor skills such as cross coordination important for managing obstacles and traffic the body in time and space, a competence and spatial awareness. These are both

interaction and make longer stays desirable. A elevated house and blue roof invites dramatic table on the side of the house invites meeting and provides a nice seatfor care givers. The stair up to elevated level and the double slide benches and table inside stimulate social The magical Wizard's Hideawaywith an play as few other structures can do. The

THE WIZARD'S HIDEAWAY - ADA

NRO409



The proposed structure should be powder-coated steel per the specifications.



powder-coated steel or UV-stabilized plastic per the specifications. Color Colored components should be manufacturer's standard line. selections by Architect from



470 ft²

Safety surfacing area

Max. fall height

26 1.14 yd³ 0 yd³

2'7"

2,834 lbs

In-ground Surface

2

2'11''

Installation Information

Item no. NRO409-0621

KOMPAN¹ Let's play

KOMPAN color concept with a number of supplied as untreated or with brown pain a pigment that maintains the wood color. The Robinia products are designed with different standard colors. The wood can

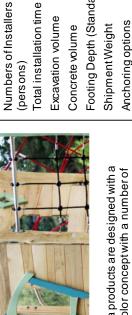
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110	Returns	Lant	14.	

The product/activities are preassembled from the factory to ensure all safetyrequirements are considered.



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galvanized steel to ensure durable connections with a high corrosion resistance. The hardware is made of stainless steel or



Concrete volume	Footing Depth (Standard)	Shipment Weight	Anchoring options In-gro	Surfac	Warranty information	Robinia wood	Stainless steel hardware	Stainless steel activities
K		a Ia	of	also be				

Lifetime

10 Years 5 Years 10 Years

Spare parts guaranteed

Ropes

10 Years

Accessible Ground Level Play Types	ŀ	ŀ
Accessible Ground Level Activities	1	1
Accessible Elevated Activities	2	2
Elevated Activities 2	Present	Required

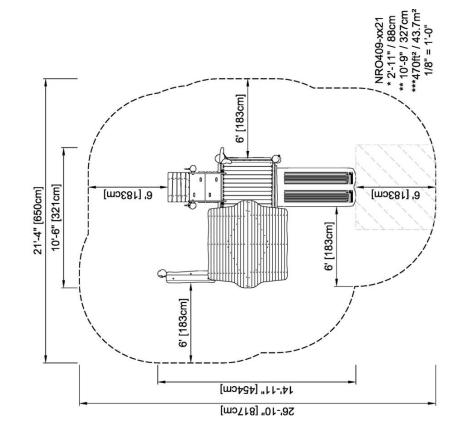
THE WIZARD'S HIDEAWAY - ADA

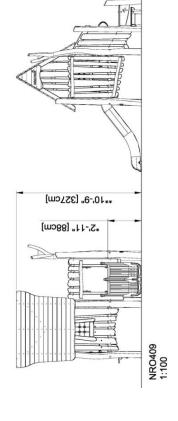
NRO409

KOMPAN^{*} Let's play

*Max fall height | **Total height | ***Safety surfacing area

*Max fall height | **Total height





Click to see 1:100 ratio TOP VIEW

Click to see 1:100 ratio SIDE VIEW

3 / 2/24/2020

THE WIZARD'S HIDEAWAY - ADA

NRO409





The house and porch

invites dramatic play which trains Social-Emotional: the house with Cognitive: the house with bench the bench invite socializing and language and communication cooperation. skills.

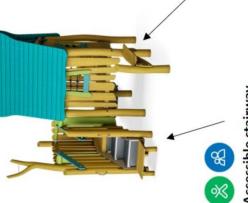


Double slide

Physical: sliding trains the spatial awareness and sense of balance. Furthermore, the core muscles are trained Social-Emotional: invites socializing, supports parentwhen sitting upright going down.

Cognitive: young children train their understanding of child and peer-to-peer play

space, speed and distances when sliding down fast.



and exchange. Gives opportunity for resting from play for a minute. Social-Emotional: place to meet Side table œ

Accessible stairway

Social-Emotional: the stairway has nice platforms Physical: easier entrance for all ages and abilities. and spaciousness for seating and meeting. Trains coordination and leg-arm muscles.



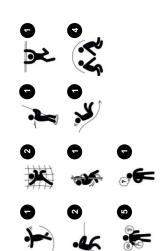
NRO1020

PRE-KINDERGARTEN PLAY STRUCTURE (2) - FOR DESIGN INTENT ONLY -





General Product Information Dimensions LxWxH 13'7" x 12'1	
	ation
	13'7" x 12'10"x13'8"
<mark>Age Group</mark>	<mark>2-5</mark>
Play Capacity	9 children
Color Options	





The Play Tower with Slide & Curly Climber is a dense, yet varied play motivator for children. The targeted selection of popular play activities stimulates children to playfor a long time, again and again. The accessible stainwayleads to the choice of a slide or a rotating glide event. Both are greatfun, and they train the senses of balance and space, which are very important

for navigating through spaces confidently and securely, and for judging distances. The Curly Climber additionallytrains proprioception: the awareness of where your body parts need to be placed to manage tasks. The fast access via the accessible stairwayprovides a loop, running up and sliding or gliding down, repeating the action. This is great cardio

training, but it also encourages turn-taking skills in children, building social-emotional awareness.

KOMPAN[®] Let's play

NRO1020



The proposed structure should be powder-coated steel per the specifications.



powder-coated steel or UV-stabilized plastic per the specifications. Color Colored components should be manufacturer's standard line. selections by Architect from



Products are preassembled from the factory to ensure all safety requirements are considered.



quality stainless steel. The steel is cleaned by a total pickling process after manufacturing to The stainless-steel activities are made of highensure a smooth and clean gliding surfaces.



galvanized steel to ensure durable connections with a high corrosion resistance. The hardware is made of stainless steel or



supplied as untreated or with brown painted with a pigment that maintains the wood color. different standard colors. The wood can also be The Robinia products are designed with a KOMPAN color concept with a number of

ltem no. NRO1020-1021	0-1021
Installation Information	nation
Max. fall height	7'3"
Safety surfacing area	449 ft ²
Numbers of Installers (persons)	7
Total installation time	25
Excavation volume	1.22 yd ³
Concrete volume	0.22 yd ³
Footing Depth (Standard)	3' 3"
Shipment Weight	2,314lbs
Anchoring options	In-ground 🗸
	Surface 🗸
Warranty information	lation
Robinia wood	10 Years
Stainless steel hardware	Lifetime
Stainless steel activities	10 Years
Ropes	5 Years
Contra di la contra di	10 1000

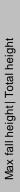
Accessible Ground Level Play Types	ŀ	ŀ	
Accessible Ground Level Activities	1	1	
Accessible Elevated Activities	2	1	
Elevated Activities 2	Present	Required	

5 Years 10 Years

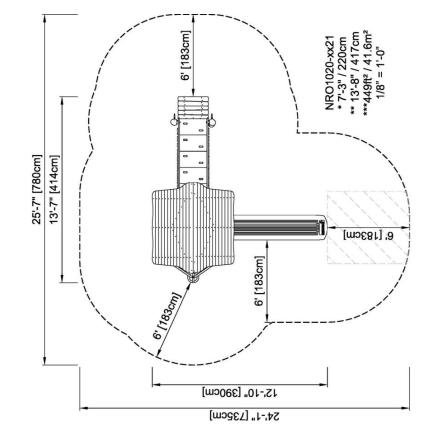
Spare parts guaranteed

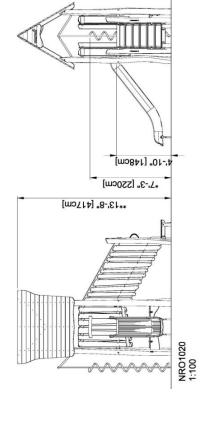
NRO1020

Max fall height | Total height | Safety surfacing area



KOMPAN^{*} Let's play





Click to see 1:100 ratio TOP VIEW

Click to see 1:100 ratio SIDE VIEW

3 / 06-02-2020



NRO1020



Curly climber

Physical: coordination and proprioception is supported when placing arms, legs and backside correctly for going down. Sense of balance when rotating. Arm muscles for holding tight. Bone density when jumping down.

Social-Emotional: empathy stimulated by turn-taking.

Cognitive: logical thinking when placing arms and legs right for rotating downwards.

coordination and the leg and arm

Physical: easier entrance for all

Stairway

% % ages and abilities. supports

has nice platforms and space for

sitting and meeting.

Social-Emotional: the stairway

muscles.



Slide

Physical: sliding develops spatial awareness and sense of balance. Furthermore, the core muscles are trained when sitting upright going down.

Social-Emotional: empathy stimulated by turntaking.

Cognitive: young children develop their understanding of space, speed and distances when sliding down fast.



Counter

Physical: invites climbing over and across, developing crosscoordination. This supports cross-modal perception, which is necessary for other skills such as being able to read. Social-Emotional: sharing and cooperation from both sides create a social scenario that supports communication and cooperation. Cognitive: the counter invites dramatic play scenarios such as playing shop. This stimulates language and communication.



5 / 06-02-2020

ROBINIA THEATER & MUSIC COTTAGE

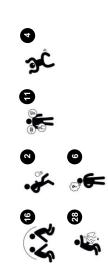
NRO606

PRE-KINDERGARTEN PLAY STRUCTURE (3) - FOR DESIGN INTENT ONLY -





Item no. NRO606-1021	306-1021
General Product Information	Information
Dimensions LxWxH	12'3" x 9'3" x 8'5"
Age Group	<mark>2-5</mark>
Play Capacity	15 children
Color Options	





The Robinia Theater & Music Cottage attracts toddlers, preschoolers and adults for hours of varied, creative play. With its richness in detail the play unit invites dramatic and explorative play as well as solid social interaction and cooperation. The xylophone and drum panels support creative play and invite groups of players due to their angle out from the house.

The clock, bell, flaps, shelf and mirror are dense with cause-and-effectlearning and creative play. These stimulate logical thinking and spur dramatic play, which is great for language development. The desk of the house invites breaks and in tests with children is used repeatedlyfor rough-and-tumble, climb over, through and around play activities. Apart from

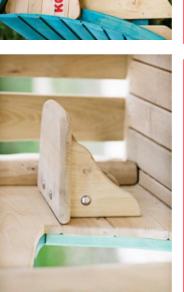
stimulating muscles this trains important motor skills such as cross-bodycoordination, which is fundamental for later reading skills.

1 / 2/24/2020

ROBINIA THEATER & MUSIC COTTAGE

NRO606





"The proposed structure should be water powder-coated street per the can be specifications, 00% FSC ^m certification. Robinia is a wood species with high strength and natural durability in various climatic conditions.



Colored components should be powder-coated steel or UV-stabilized plastic per the specifications. Color selections by Architect from manufacturer's standard line.



Play activities in very strong materials: HDPEplate with HDPE-clock and hands in conveyer belt rubber, bell in pressed aluminium. Mirror in plexi-glass with a high impact resistant.



All rubber activities/components are made of conveyer belt rubber that makes it extremely weather resistant and long lasting.



The percussion panel consist of 2 Conga Drums with PP tubes and top in painted ABS. Babel drum in stainless steel 316L.



The Xylofone music panel consists of HDPE material in 0. 7" EcoCore TM. EcoCore TM is a highly durable, ecofriendlymaterial. The pipes are made of die-cast aluminium specifically alloyed for outdoor environments.

Item no. NRO606-1021	3-1021
Installation Information	mation
dax. fall height	I
Safety surfacing area	- ft ²
Numbers of Installers persons)	N
Fotal installation time	15
Excavation volume	0.72 yd ³
Concrete volume	0 yd ³
⁻ ooting Depth (Standard)	3' 3"
Shipment Weight	1,381lbs
Anchoring options	In-ground 🗸
	Surface 🗸
Warranty information	nation
Robinia wood	10 Years
Stainless steel hardware	Lifetime
Stainless steel activities	10 Years
Ropes	5 Years

Accessible Accessible Ground Ground Level Level Play Activities Types	2	2
Accessible Ground Level Activities	3	2
Accessible Elevated Activities	0	0

10 Years

Spare parts guaranteed

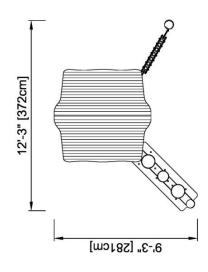


NRO606

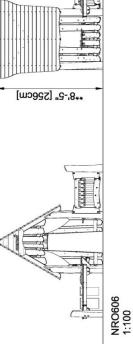


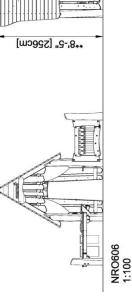
*Max fall height | **Total height | ***Safety surfacing area

*Max fall height | **Total height



NRO606 ** 8'-5" / 256cm 1/8" = 1'-0"





Click to see 1:100 ratio SIDE VIEW

Click to see 1:100 ratio TOP VIEW

ROBINIA THEATER & MUSIC COTTAGE

NRO606





Physical: fine and gross motor skills and hand-eye coordination Social-Emotional: cooperation and cocreation, parallel and group play Cognitive: cause and effect understanding when creating sounds Creative: creating and leaving a mark with sound



Clock and bell panel Physical: fine motor skills and hand-eye coordination Cognitive: understanding causeand-effect when ringing bell, understanding time and measures when playing with clock Creative: leaving a mark in creating new positions on clock or with sound creating a rhythm when ringing or knocking the bell



Percussion Physical: fine motor skills and

Any and the most internation will be a series and co-creation when playing from both sides
 Cognitive: understanding cause and effect when figuring out different sounding areas of surface
 Creative: creating, combining and leaving a mark of different sounds



Desk flaps w. holes ¹ Physical: fine motor skills and cause and effect understanding when lifting flaps Cognitive: shifting things through holes to shelf trains logical thinking and the understanding of object permanence



Mirror Cognitive: understanding of individuality and self expression. Stimulates dramatic play and thus language development.



Physical: invites climbing over and across, training cross-coordination. This again trains cross-modal perception, which is necessary for instance for being able to read.

Social-Emotional: sharing and cooperation from both sides create a social scenario that trains communication and cooperation.

Cognitive: the counter invites dramatic play scenarios such as playing shop. This stimulates language and communication hugely.



Xylophone music panel Physical: fine motor skills and hand-eye coordination Social-Emotional: invite social interaction and cocreation for more children, on both sides Cognitive: understanding of cause and effect when beating tubes and creating sound

Creative: leaving a sound and tonality mark,

Cognitive: hiding or storing

Shelf

items as part of dramatic play or explorative play

creating tunes



THE WIZARD'S DOUBLE TOWER FORTRESS

NRO2010

KINDERGARTEN PLAY STRUCTURE - FOR DESIGN INTENT ONLY -





Item no. NRO2010-1021	2010-1021
General Product Information	t Information
Dimensions LxWxH	36'1"x21'2''x 17'6''
Age Group	<mark>5-12</mark>
Play Capacity	38 children
Color Options	



stairwaywith hammock makes a nice haven for children again and again, for a long time. The children of all abilities. The slides are thrilling rides down, training core stability as the child Fortress is an irresistible play attraction for children. With its varied play corners and The voluminous Wizard's Double Tower diverse physical play activities it attracts

inclined wood and netaccesses assist the child in climbing up in more or less challenging ways, core muscles. An inclined climb gives a greater inviting a range of children of varied abilities. The curly climber is a rotating and downward training cross-coordination and leg, arm and sense of security than a vertical one, thus sits upright when sliding. The variation of

and traffic safely. The platforms on the ground of space, both crucial in managing obstacles and elevated areas invite meetings and exchanges.

glide that stimulates balance as well as sense

THE WIZARD'S DOUBLE TOWER FORTRESS

NRO2010





The proposed structure should be powder-coated steel per the specifications.



powder-coated steel or UV-stabilized plastic per the specifications. Color Colored components should be manufacturer's standard line. selections by Architect from



967.7 ft²

8'2"

Installation Information

Max. fall height

59 3.37 yd³

Total installation time

(persons)

0.47 yd³ . ອີ 5,663 lbs

In-ground Surface

Anchoring options

2

supplied as untreated or with brown painted with a pigment that maintains the wood color. different standard colors. The wood can also be KOMPAN color concept with a number of

 - Ale	1	
	1	4
		115
	1	

The product/activities are preassembled from the factory to ensure all safetyrequirements are considered.



•		-		
E. Com	6			
	Le la	2		
-1			2	ALL.
14				

galvanized steel to ensure durable connections with a high corrosion resistance. The hardware is made of stainless steel or

The Robinia products are designed with a

Lifetime

Stainless steel hardware Stainless steel activities

Robinia wood

Spare parts guaranteed

Ropes

10 Years 5 Years 10 Years

10 Years

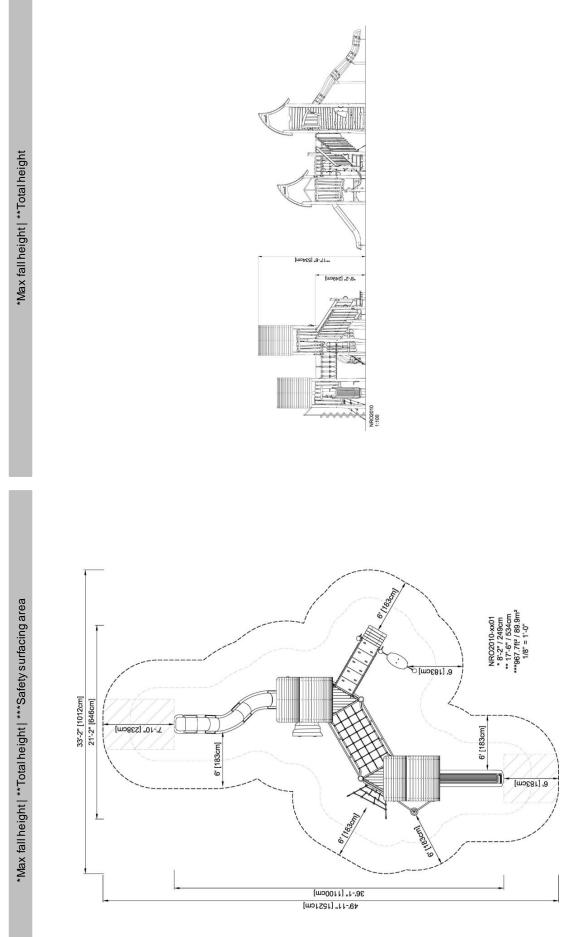
Warranty information

Accessible Ground Level Play Types	2	3
Accessible Ground Level Activities	2	3
Accessible Elevated Activities	5	4
Elevated Activities 8	Present	Required



NRO2010





Data is subject to change without prior notice.

Click to see 1:100 ratio SIDE VIEW

Click to see 1:100 ratio TOP VIEW

3 / 2/24/2020









Curly climber

Physical: coordination and proprioception is supported when placing arms, legs and backside correctly for going down. Sense of balance when rotating. Arm muscles for holding tight. Bone density when jumping down.

Social-Emotional: empathy stimulated by turn-taking.

Cognitive: logical thinking when placing arms and legs right for rotating downwards.



Slide

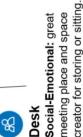
Physical: sliding develops spatial awareness and sense of balance. Furthermore, the core muscles are trained when sitting upright going down. Social-Emotional: empathy stimulated by turn-taking.

Cognitive: young children develop their understanding of space, speed and distances when sliding down fast.



Net Bridge

Physical: children develop their balance, cross-coordination and spatial awareness in the open net. Social-Emotional: interaction with children outside, socializing.



Social-Emotional: the inclination makes

climbing feel secure, especially for

younger children.

Physical: supports cross-coordination

Rock climber

% % and leg, arm and hand strength.



Curved slide Physical: sliding on high slides tickles the stomach and develops spatial awareness and a sense of balance. Furthermore, the core muscles are trained when sitting upright going down. Social-Emotional: empathy stimulated by turn-taking. Cognitive: young children train their understanding of space, speed and distances when sliding down



quickly.

Accessible stairway

Physical: climbing the accessible stairway is for all and supports cross-coordination as well as arm and leg muscles. For young children, walking stairs and alternating feet is developed.

Social-Emotional: room for active breaks and adult helpers. An inclusive space.



Hammock

Physical: coordination and sense of balance when swaying. Social-Emotional: pushing friends gently back and forth, turn-taking. Cognitive: for toddlers cause and effect understanding.



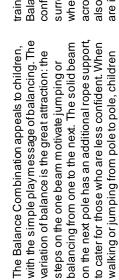
NRO856

INTERMEDIATE PLAY STRUCTURE (1) - FOR DESIGN INTENT ONLY -



0856-1003	t Information	15'2" x 7'10" x 5'7"	<mark>5-12</mark>	4 children			2 35	
Item no. NRO856-1003	General Product Information	Dimensions LxWxH	Age Group	Play Capacity	Color Options		2	

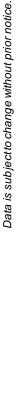




Balance and proprioception are fundamental for train their proprioception and sense of balance. when navigating street traffic safely. Balancing also trains turn-taking and negotiation. These are importants ocial-emotional skills that are across the Balance Combination with friends surroundings. This is important for instance confidently managing the body in its

to peers.

basic for the ability to form friendship and relate



NR0856







Nets and ropes are made of UV-stabilized PA with inner steel cable reinforcement. The rope is induction treated in order to create a strong connection between steel and rope which leads to good wear resistance.



The steps of 3/4" EcoCore TM. EcoCore TM is a highly durable, eco-friendly material, which is not only recyclable after use, but also consists of a core produced from 100% recycled material.



Item no. NRO856-1003	1003
Installation Information	lation
Max. fall height	5'7"
Safety surfacing area	352 ft ²
Numbers of Installers (persons)	2
Total installation time	5
Excavation volume	0.28 yd ³
Concrete volume	0 yd ³
Footing Depth (Standard)	3' 3"
Shipment Weight	501 lbs
Anchoring options	In-ground 🗸
	Surface 🗸
Warranty information	ation
Robinia wood	10 Years
Stainless steel hardware	Lifetime
EcoCore TM	Lifetime
Ropes	5 Years
Spare parts guaranteed	10 Years

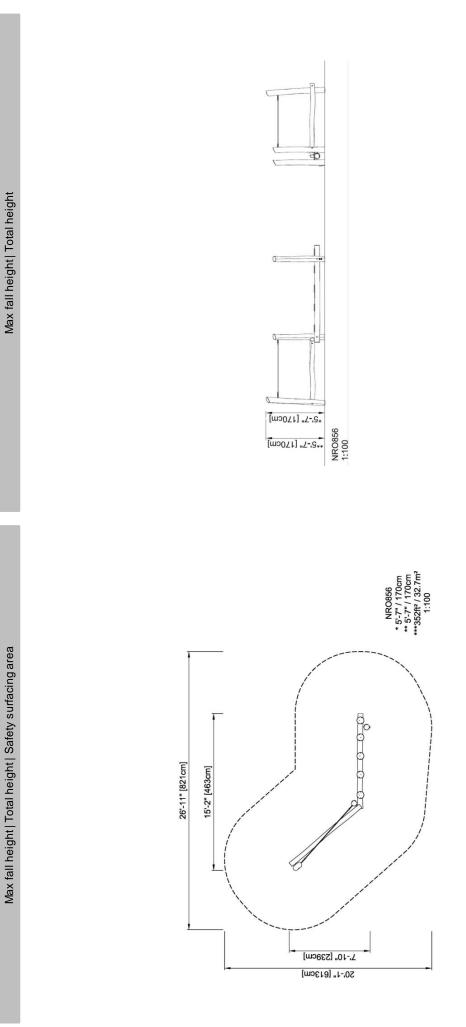


color of life wood.

Accessible Ground Level Play Types	ŀ	1
Accessible Ground Level Activities	2	1
Accessible Elevated Activities	0	0
Elevated Activities 0	Present	Required

NRO856





Click to see 1:100 ratio SIDE VIEW

Data is subject to change without prior notice.

Click to see 1:100 ratio TOP VIEW

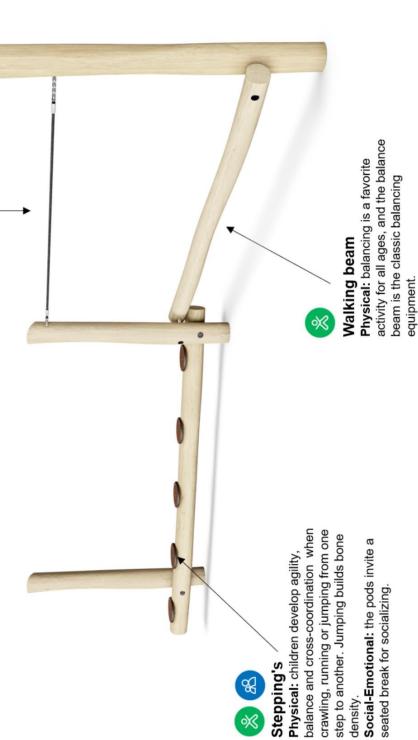
3 / 2/24/2020



NR0856



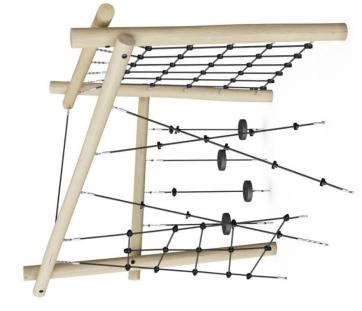
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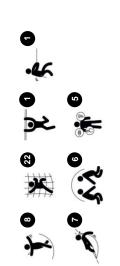
NRO852

INTERMEDIATE PLAY STRUCTURE (2) - FOR DESIGN INTENT ONLY -





ltem no. NRO852-1001	852-1001
General Product Information	t Information
Dimensions LxWxH	10'6" x 10'5" x 9'1"
Age Group	<mark>5-12</mark>
Play Capacity	14 children
Color Options	





The Parkour 2 is a playground challenge that across the top beam wi school age children can't pass without trying. The variation a The varied, responsive climbing ropes and mets are too much of a temptation. The Parkour 2 together. This takes coc stimulates basic motor skills. Children use their social-emotional skills a their muscles when they climb horizontally and for meeting, too. The hig

across the top beam with support rope adds to the thrill. The variation allows for different climbing styles and more children climbing together. This takes cooperation and communication, so children use and expand social-emotional s kills such as turn-taking and negotiation. The Parkour 2 allows ample space for meeting, too. The higher destinations are

1 / 2/24/2020

good for the sense of space. This helps children judge distances, for example, in street traffic or in crowded places.

NRO852



e should be	ber the can be	
The proposed structur	powder-coated steel p	specifications. % FSC



Full colored EPDM rubber seats with smooth surface. The seats is are molded on a hot dip galvanized steel inlay that ensures durable fixation to the rope.



KOMPAN[®] Let's play

with inner steel cable reinforcement. The rope is induction treated in order to create a strong connection between steel and rope which leads Nets and ropes are made of UV-stabilized PA to good wear resistance.

Item no. NRO852-1001	2-1001
Installation Information	mation
Max. fall height	9'1"
Safety surfacing area	360.6 ft ²
Numbers of Installers	2
(bersons)	1
Total installation time	8
Excavation volume	3.05 yd ³
Concrete volume	0.28 yd ³
Footing Depth (Standard)	3'4"
Shipment Weight	753lbs
Anchoring options	In-ground 🗸
Warranty information	ation
Robinia wood	10 Years
Stainless steel hardware	Lifetime
EPDM seats	2 Years





Accessible Ground Level Play Types	2	2
Accessible Ground Level Activities	3	2
Accessible Elevated Activities	0	0
Elevated Activities 0	Present	Required

10 Years

Spare parts guaranteed

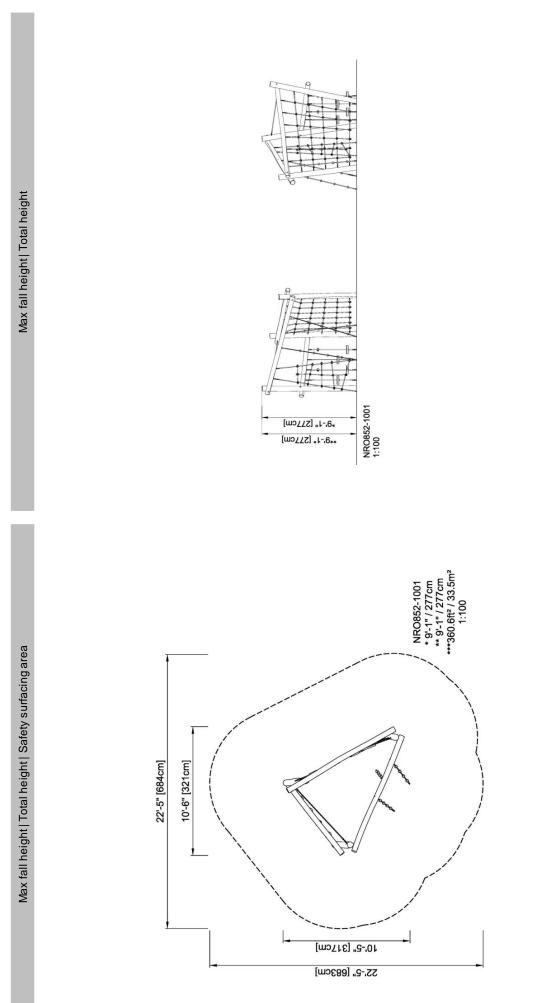
Ropes

5 Years



NRO852





Click to see 1:100 ratio TOP VIEW

Click to see 1:100 ratio SIDE VIEW

3 / 2/24/2020



NR0852





Parkour ropes

supports for the feet when climbing or crossing the module. This supports cross-coordination, This combination adds to the child's general cooperation when crossing by others on the sense of balance and arm and leg muscles. Social-Emotional: the seats make a nice Physical: the big rubbery discs are great body adeptness and awareness, adding destination and meeting point and take security to its movements. way through the module.



Climbing net

self awareness and helps when judging your developed, too. These physical skills add to Physical: climbing on this net supports rungs, balance and proprioception are cross-coordination. Due to the inclined body in time and space, a crucial skill.



balancing. Makes possible hanging in Social-Emotional: adds a feeling of arms, training upper body muscles. Physical: provide stability in **Rope handholds** security.



Physical: trains the sense of balance, that makes it possible to navigate the fundamental for all other motor skills Social-Emotional: turn-taking skills and negotiation when crossing each world confidently and securely. other on the beam. Balance beam



Vertical climbing net

Physical: children develop cross-body coordination and muscle strength. The proprioception and spatial awareness. allow for more children to sit together Social-Emotional: the big meshes big meshes allow for climbing and crawling through, supporting and talk.



Climbing ropes

Physical: the small knots add support for hands climbing up or down develops turn-taking skills and consideration. and feet when climbing onto the rope, crawling up or down. This supports spatial awareness, cross-coordination and all muscle strength. Social-Emotional: passing others when

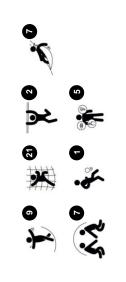


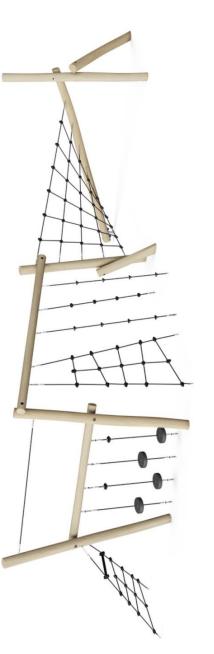
NRO854

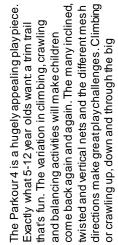
INTERMEDIATE PLAY STRUCTURE (3) - FOR DESIGN INTENT ONLY -



ltem no. NRO854-1001	0854-1001
General Product Information	:t Information
Dimensions LxWxH	32'9"x15'3''x8'11''
Age Group	5-12
Play Capacity	12 children
Color Options	







When climbing through the Parkour 4 children train their cooperation and turn-taking skills. These skills are difficult to teach, but they are easily learned in play.

with

1/1

meshes greatly stimulates coordination and proprioception. Both are skills neces sary to navigate the world confidently and to achieve physical confidence. The lovely rubber seating points and the inclined beams are great for meeting and exchanging. Their bouncy or inclined character make them a constant balance and muscle trainer, even when seated.

NRO854



The proposed structure should be powder-coated steel per the specifications.



Nets and ropes are made of UV-stabilized PA with inner steel cable reinforcement. The rope is induction treated in order to create a strong connection between steel and rope which leads to good wear resistance.



4.75 yd³

0.51 yd³ 3' 6"

1,164lbs

Footing Depth (Standard)

Concrete volume

In-ground Surface

Shipment Weight Anchoring options

8'11" 758.9 ft²

Item no. NRO854-1001 Installation Information

Safety surfacing area Numbers of Installers

Max. fall height

Total installation time Excavation volume

(persons)

KOMPAN[®] Let's play 4 2

Full colored EPDM rubber seats with smooth surface. The seats is are molded on a hot dip galvanized steel inlay that ensures durable fixation to the rope. 5 Years

2 Years 10 Years

Spare parts guaranteed

EPDM seats

Rope

Lifetime 10 Years

Warranty information

Stainless steel hardware

Robinia wood



The hardware is made of <mark>stainless steel</mark> or galvanized steel to ensure durable connections with a high corrosion resistance.



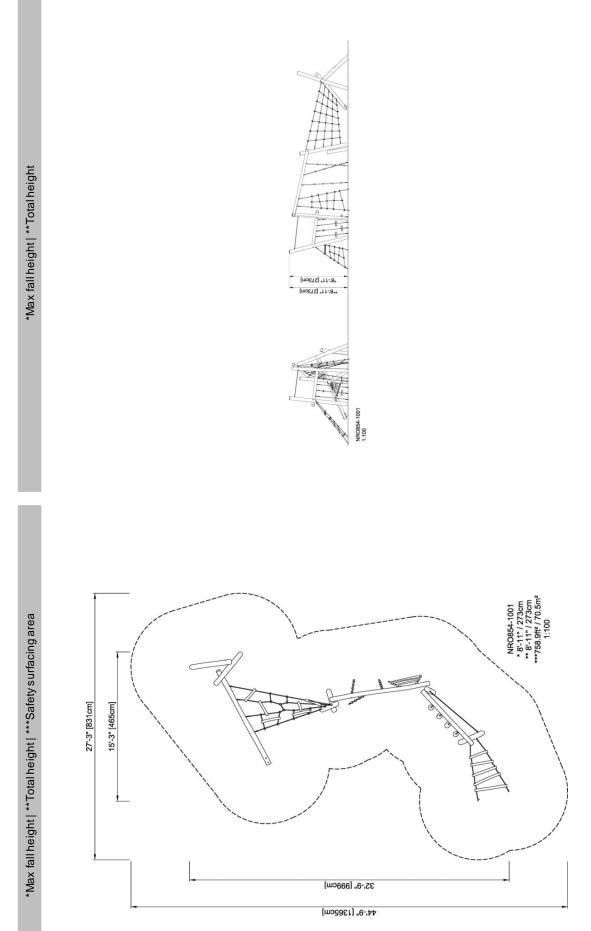


Arrescible	ľ			
1	oldio	Accessible	Accessible	
Elevated Elevated	PIDIE	Ground	Ground	_
Activities 0 Activition	ition	Level	Level Play	
ACINI	SDII	Activities	Types	
Present 0		4	2	
Required 0		2	2	
				1



NRO854





Data is subject to change without prior notice.

Click to see 1:100 ratio SIDE VIEW

3 / 2/24/2020

Click to see 1:100 ratio TOP VIEW

NRO854



Reversion Streets

Physical: the small knots add support for hands and feet when clinging onto the rope, crawling up or down. This trains the spatial awareness, the cross-coordination and all muscle groups. Social-Emotional: the ropes take cooperation when passing other children.



KOMPAN^F Let's play

Twisted climbing net

Physical: the twisted, transparent climb trains crosscoordination as well as sense of balance and space. Core, leg and arm muscles are trained, too. These motor and muscle skills are crucial to e.g. prevent falling when doing vigorous physical activity.

Social-Emotional: the twisted shape creates varied seating possibilities and interaction from one side to the other. This trains empathy and cooperation.



Boarding net

The inclined net supports the upward climbing movement of the body. Physical: cross-coordination, balance and physical strength, when climbing.



Parkour ropes

Physical: the big rubbery are great supports for the feet when climbing or crossing the module. This trains cross-coordination, sense of balance and arm and leg muscles. This combination adds to the child's general body adeptness and awareness, adding security to its movements, e.g. in traffic.

Social-Emotional: the seats make a nice destination and meeting point and take cooperation when crossing past others on the way through the module.



Climbing net

Physical: climbing on this net trains crosscoordination. Due to the inclined horizontal rungs, balance and proprioception are trained, too. These physical skills add to self awareness and helps when judging your body in time and space, a crucial skills for instance in managing traffic safely.



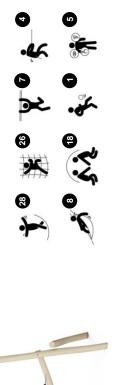
PARKOUR 5

NRO857

INTERMEDIATE PLAY STRUCTURE (4) - FOR DESIGN INTENT ONLY -



Item no. NRO857-1003	3857-1003
General Product Information	ct Information
Dimensions LxWxH	43'3" x 40'4" x 8'11"
Age Group	<mark>5-12</mark>
Play Capacity	33 children
Color Options	





WOW! The Parkour 5 hugely appeals to 6-12 year-olds: a fitness course that's fun. The variation in climbing, crawling, balancing and meeting activities will make children come back again and again. The many inclined, twisted and vertical nets and the different mesh sizes offer great play challenges. Climbing or crawling up, down and through the Parkour 5

stimulates agility, balance and coordination. These motor skills are necessary to managing the world securely and achieving physical confidence. The lovely swaying seat points and the horizontal beams are greatfor meeting and exchanging. The many ropes and their bouncy character make them a constantbalance and muscle trainer, even when seated. When

climbing through the Parkour 5, children train their cooperation, negotiation and turn-taking skills. These skills are hard to teach, but easily learned in play.



1 / 2/24/2020

PARKOUR 5

NRO857







Nets and ropes are made of UV-stabilized PA with inner steel cable reinforcement. The rope is induction treated in order to create a strong connection between steel and rope which leads to good wear resistance.



1,662 ft²

Safety surfacing area Numbers of Installers

Max. fall height

õ

Item no. NRO857-1003 Installation Information

KOMPAN Let's play 29 8.7 yd³

Total installation time Excavation volume

(persons)

1.33 yd³ 3' 3"

3,346 lbs

Footing Depth (Standard)

Concrete volume

In-ground

Anchoring options

Shipment Weight

2

Full colored EPDM rubber seats with smooth surface. The seats is are molded on a hot dip galvanized steel inlay that ensures durable fixation to the rope. 2 Years

5 Years 10 Years

Spare parts guaranteed

10 Years Lifetime

Warranty information

Stainless steel hardware

EPDM seats

Ropes

Robinia wood



Balance postof 34." EcoCore TM. EcoCore TM is a highly durable, ecofriendlymaterial, which is not only recyclable after use, but also consists of a core produced from 100% recycled material.



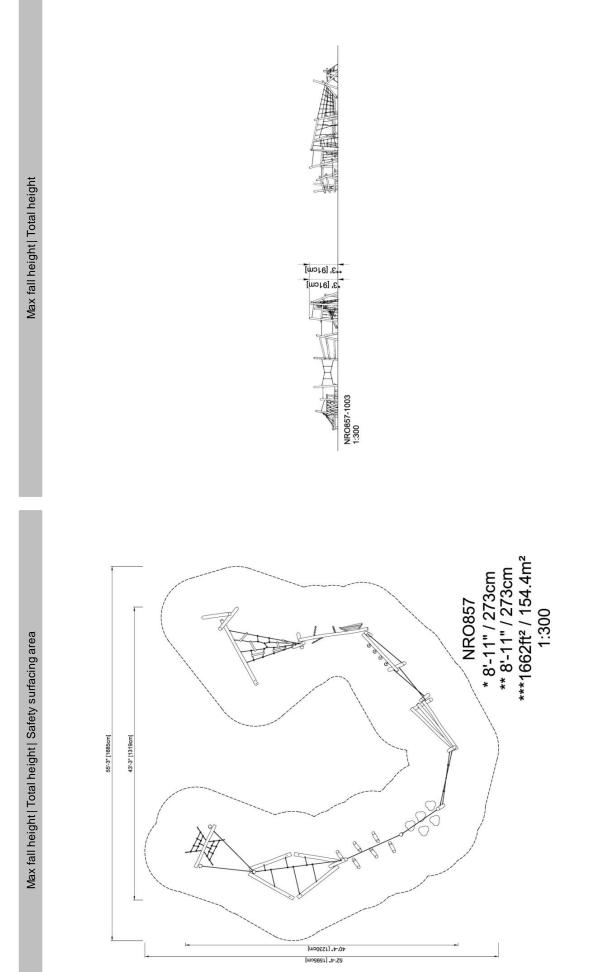
	Arressible	Accessible	Accessible
Elevated		Ground	Ground
Activities 0	A ofivition	Level	Level Play
		Activities	Types
Present	0	10	2
Required	0	5	2

without prior notice.
Data is subject to change



NRO857





Data is subject to change without prior notice.

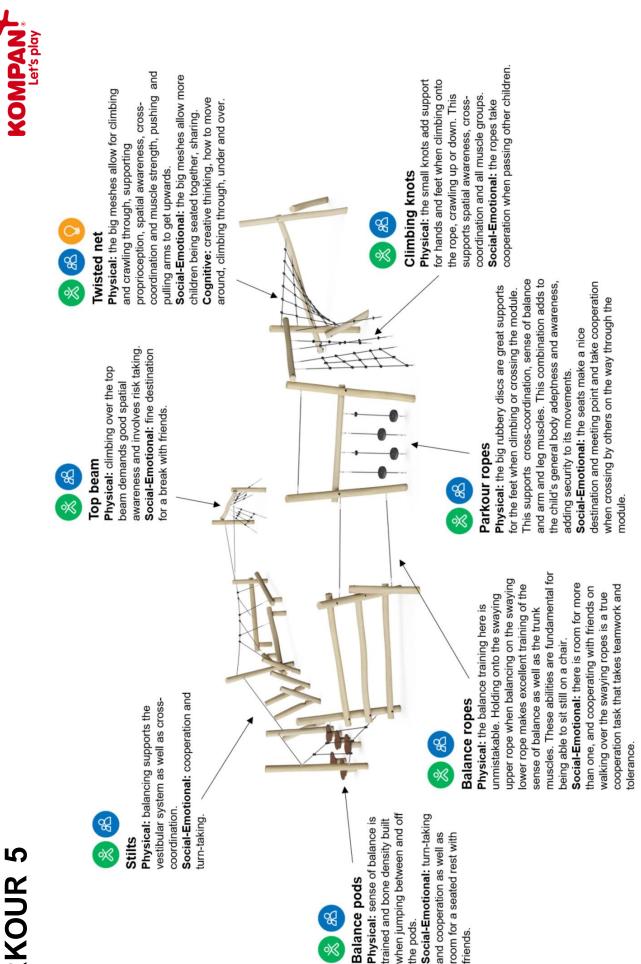
Click to see 1:100 ratio SIDE VIEW

3 / 2/24/2020

Click to see 1:100 ratio TOP VIEW



NR0857



the pods.

%

friends.



SECTION 12 3200 - MANUFACTURED WOOD CASEWORK

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Manufactured Standard casework, with cabinet hardware.
- B. Special purpose units.
- C. Mobile cabinets.

1.2 DEFINITIONS

- A. Exposed: Portions of casework visible when drawers and cabinet doors are closed, including end panels, bottoms of cases more than 42 inches above finished floor, tops of cases less than 72 inches above finished floor and all members visible in open cases or behind glass doors.
- B. Semi-Exposed: Portions of casework and surfaces behind solid doors, tops of cases more than 72 inches above finished floor and bottoms of cabinets more than 30 inches but less than 42 inches above finished floor.
- C. Concealed: Sleepers, web frames, dust panels and other surfaces not generally visible after installation and cabinets less than 30 inches above finished floor.

1.3 REFERENCE STANDARDS

- A. AWI (QCP) Architectural Woodwork Institute, Quality Certification Program; current edition: www.awiqcp.org.
- B. BHMA A156.9 American National Standard for Cabinet Hardware.
- C. NEMA LD 3 High-Pressure Decorative Laminates.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Conduct a preinstallation meeting not less than one week prior to the start of the work of this section; require attendance by all affected installers.
- B. Keying Conference: Conduct conference with FCPS Lock Shop prior to ordering keys. Incorporate conference decisions into keying submittal.

1.5 SUBMITTALS

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- A. Product Data: Component dimensions, configurations, construction details, joint details, attachments.
- B. LEED Submittals: Comply with Section 01 3329 Sustainable Design Requirements LEED v4/v4.1.
 - 1. MR Credit 2: BPDO Environmental Product Declarations
 - a. For composite wood: Product-specific declaration or Industry-wide EPD or product-specific EPD. Include EPD Summary.
 - 2. MR Credit 3: BPDO Sourcing of Raw Materials

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- a. For recycled content composite wood: Documentation indicating percentages by weight pre-consumer and post-consumer recycled content. Include material cost value.
- b. For certified wood: Documentation indicating percentage new wood, percentage FSC and Chain-of-Custody (CoC) certificates indicating compliance with forest certification requirements. Include vendor invoice indicating FSC CoC.
- 3. MR Credit 4: BPDO Material Ingredients
 - a. For composite wood and plastic finishes provide Material Ingredient Report.
- 4. EQ Credit 2: Low-Emitting Materials
 - a. For composite wood installed within the building interior: Documentation indicating compliance with California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM), Phase II for ultra-low-emitting formaldehyde (ULEF) resins or containing no added formaldehyde resins.
- C. Shop Drawings: Indicate casework types, sizes, and locations, using large scale plans, elevations, and cross sections. Include rough-in and anchors and reinforcements, placement dimensions and tolerances, clearances required, keying information, and countertops (Section 12 3600).
- D. Samples for Finish Selection: Fully finished, for color selection. Minimum sample size: 6 inches by 6 inches.
 - 1. Plastic laminate samples, for color, texture, and finish selection.
- E. Manufacturer's Installation Instructions.
- F. Installer's Qualification Statement.
- G. Maintenance Data: Manufacturer's recommendations for care and cleaning.
- H. Finish touch-up kit for each type and color of materials provided.
- 1.6 QUALITY ASSURANCE
 - A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
 - B. Quality Certification: Comply with AWI (QCP) woodwork association quality certification service/program in accordance with requirements for work specified in this section.
 - 1. Provide labels or certificates indicating that the work complies with requirements of AWI Grade or Grades specified.
 - 2. Register with AWI QCP and provide project number(s) with shop drawings.
 - 3. Provide designated labels on shop drawings as required by certification program.
 - 4. Provide designated labels on installed products as required by certification program.
 - 5. Submit certifications upon completion of installation that verifies this work is in compliance with specified requirements.
 - 6. Arrange and pay for inspections required for certification.
 - 7. Replace, repair, or rework all work for which certification is refused.
 - C. Quality Expectations: Materials must be designed, constructed and installed to meet the intended use and expected abuse to be incurred within the educational environment. This specification outlines the minimum requirements for material quality, construction, finish and overall workmanship to be provided. The finished products shall be functional, have an extended life expectancy with minimal maintenance and be operationally safe.

D. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than three years of documented experience and approved by manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect items provided by this section, including finished surfaces and hardware items during handling and installation. For metal surfaces, use polyethylene film or other protective material standard with the manufacturer.
- B. Acceptance at Site:
 - 1. Do not deliver or install casework until the conditions specified under Part 3, Examination Article of this section have been met. Products delivered to sites that are not enclosed and/or improperly conditioned will not be accepted if warping or damage due to unsatisfactory conditions occurs.
- C. Storage:
 - 1. Store casework in the area of installation. If necessary, prior to installation, temporarily store in another area, meeting the environmental requirements specified under Part 3, "Site Verification of Conditions" Article of this section.
- 1.8 MOCK-UP
 - A. Provide full size base cabinet and upper cabinet complete with drawers, door, adjustable shelf and countertop. Coordinate with requirements of Section 12 3600.
 - B. Locate where directed.
 - C. Mock-up may remain as part of the Work.
- 1.9 WARRANTY
 - A. Correct defective Work within a five year period after Date of Substantial Completion, at no additional cost to Owner. Defects include, but are not limited to:
 - 1. Ruptured, cracked, or stained finish coating.
 - 2. Discoloration or lack of finish integrity.
 - 3. Cracking or peeling of finish.
 - 4. Delamination of components.
 - 5. Failure of adhesives.
 - 6. Failure of hardware.

PART 2 PRODUCTS

- 2.1 MANUFACTURERS
 - A. Plastic Laminate Casework:
 - 1. Case Systems: www.casesystems.com/#sle.
 - 2. TMI Systems Corporation: www.tmisystems.com/.
 - 3. Institutional Casework Inc: www.iciscientific.com/.
 - B. Obtain casework from single source and manufacturer, unless otherwise indicated.

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2.2 CASEWORK, GENERAL

- A. Quality Standard: AWI Standards, current edition, unless noted otherwise.
- B. Plastic Laminate Faced Cabinets: Custom Grade.

2.3 FABRICATION

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- A. Assembly: Shop assemble casework items for delivery to site in units easily handled and to permit passage through building openings.
- B. Construction: As required for selected grade.
- C. Structural Performance: Safely support the following minimum loads:
 - 1. Base Units: 500 pounds per linear foot across the cabinet ends.
 - 2. Suspended Units: 300 pounds static load.
 - 3. Drawers: 125 pounds, minimum.
 - 4. Hanging Wall Cases: 300 pounds.
 - 5. Shelves: 100 pounds, minimum.
- D. Fittings and Fixture Locations: Cut and drill components for fittings and fixtures.
- E. Hardware Application: Factory-machine casework members for hardware that is not surface applied.
- F. Access Panels: Where indicated, for maintenance of utility service and mechanical and electrical components.
- G. Fixed back panels on all cabinets.
 - 1. Hardboard: 1/4" minimum thickness.
 - 2. Inset: 3/4" routing at top, bottom and sides.
- H. Fixed panels at backs of open spaces between base cabinets.
 - 1. Provide cutouts for power and data receptacles where indicated on drawings.
- I. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.
- J. Scribes and Fillers: Panels of matching construction and finish, for locations where cabinets do not fit tight to adjacent construction.
- K. Mobile Cabinets: Same construction as fixed base cabinets, with modifications.
 - 1. Cabinet underside reinforced as is standard with the manufacturer to provide caster mounting points.
 - 2. Four casters, each with a load rating of 165 pounds.
- L. Apron Frames: Construction similar to other cabinets, with modifications.
- M. Countertop Panel-Type Supports: Materials similar to adjacent casework, 1-1/2 inch in width, with front-to-back and toe space dimensions matching base cabinet. Designed to be secured in a concealed fashion to countertop material. Include two leveling devices per support panel.

N. Subbase: Separate and continuous, ladder-type construction with front, back and intermediates; water-resistant, exterior-grade plywood with concealed fastening to cabinets.

2.4 PLASTIC-LAMINATE-CLAD CASEWORK

- A. Plastic-Laminate-Clad Casework: Solid wood and wood panel construction; each unit self-contained and not dependent on adjacent units or building structure for rigidity; in sizes necessary to avoid field cutting except for scribes and filler panels.
 - 1. Style: Flush overlay. Ease doors and drawer fronts slightly at edges.
 - 2. Cabinet Nominal Dimensions: Unless otherwise indicated, provide cabinets of widths and heights indicated on drawings.
 - 3. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline.
 - a. Finish: Matte or suede, gloss rating of 5 to 20.
 - b. Surface Color and Pattern: As selected by Architect from manufacturer's custom line.
 - c. Exposed Exterior Surfaces: Decorative laminate.
 - d. Exposed Interior Surfaces: Decorative Laminate.
 - e. Semi-concealed Surfaces: Decorative laminate.
 - f. Concealed Surfaces: Decorative laminate.
 - g. Cap exposed plastic laminate finish edges with PVC plastic edge banding,

2.5 COUNTERTOPS

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- A. Countertops: As specified in Section 12 3600.
- 2.6 SPECIAL PURPOSE UNITS
 - A. Library Special Units.
 - 1. Basis of Design Manufacturer: ICI Scientific (formerly CampbellRhea): www.iciscientific.com/.
 - 2. Style: Flush overlay. Ease doors and drawer fronts slightly at edges.
 - 3. Primary Construction: Plastic-laminate clad units.
 - a. Finish, Surface Color and Pattern: As indicated on drawings.
 - 4. Single-Sided Shelving Units: Manufacturer's standard starter and add-on units.
 - a. Sizes and configurations indicated on drawings.
 - b. Shelves: Adjustable, in 1 inch increments.
 - B. Education Special Units.
 - 1. Basis of Design Manufacturer: VS America: https://vsamerica.com/.
 - 2. Alternate manufacturers will be considered so long as the minimum requirements established by the Basis of Design are met:
 - a. MityBilt Products: www.mitybilt.com/.
 - b. Fleetwood: www.fleetwoodfurniture.com/.
 - 3. Primary Construction: Plastic-laminate clad units.
 - a. Finish, Surface Color and Pattern: As selected by Architect from manufacturer's custom line.
 - 4. Products: a. Shift+ Transfer Mobile Shelving Unit #45318.
 - C. Musical Instrument Storage Special Units.
 - 1. Basis of Design Manufacturer: Wenger: https://www.wengercorp.com/.
 - 2. Style: Flush Inset, Type A. Ease doors and drawer fronts slightly at edges.
 - 3. Primary Construction: Plastic-laminate clad units.

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- a. Design: Modular units with through-bolted fastening for reconfigurable assembly.
- b. Cabinet Hardware: Manufacturer's standard, types as required for drawers, doors, shelves, levelers and similar items.
- c. Finish, Surface Color and Pattern: As selected by Architect from manufacturer's custom line.
- 4. Large and Small Instrument Storage Units: Manufacturer's standard; sizes and configurations indicated on drawings.
- D. Mailroom Special Units.
 - 1. Basis of Design Manufacturer: WB Manufacturing LLC: www.wibenchmfg.com/.
 - 2. Style: Flush overlay. Ease doors and drawer fronts slightly at edges.
 - 3. Primary Construction: Plastic-laminate clad units, with plastic laminate countertops. a. Finish, Surface Color and Pattern: As indicated on drawings.
 - Mail Slot Units: Sizes and configurations indicated on drawings.
 a. Provide one nameplate/label holder for each slot.
- 2.7 CABINET HARDWARE
 - A. Manufacturer's standard types, styles and finishes, and as indicated below.
 - B. Conform to BHMA A156.9 requirements.
 - C. Locks: Provide locks on casework drawers and doors where indicated. Lock with 5 pin cylinder and six keys per lock.
 - 1. Hinged Doors: Cam type lock, satin chromium plated over nickel on base material.
 - 2. Tall Hinged Doors: Three-point latching system.
 - 3. Keying: Key locks alike within a space; key each room separately.
 - 4. Master Key System: All locks operable by master key.
 - D. Shelves in Cabinets:
 - 1. Adjustable Shelf Supports: Standard side-mounted system using multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch spacing adjustments.
 - E. Swinging Doors: Hinges, pulls, and catches.
 - 1. Hinges: Concealed, number as required by referenced standards for width, height, and weight of door.
 - a. Concealed Hinges: Installed in cabinet edge, and on door back, satin chromium plated over nickel on base material.
 - 1) European-Style Hinges for Overlay Doors: 110 degree opening angle.
 - 2. Pulls: Chrome wire pulls, 4 inches wide.
 - a. Pull design to conform to project's referenced accessibility requirements.
 - 3. Catches: Magnetic.
 - F. Drawers: Pulls and slides.
 - 1. Pulls: Chrome wire pulls, 4 inches wide.
 - a. Pull design to conform to project's referenced accessibility requirements.
 - 2. Slides: Steel, full extension arms, ball bearings; self-closing; capacity as recommended by manufacturer for drawer height and width.

2.8 MATERIALS

A. Adhesives Used for Assembly: Comply with VOC requirements for adhesives and sealants as specified in Section 01 6116.

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- B. Wood-Based Materials:
 - 1. Solid Wood: Air-dried to 4.5 percent moisture content, then tempered to 6 percent moisture content before use.
 - 2. Sustainable Design Requirements:
 - a. Forest Certification: Provide wood products made from forests certified by an FSC accredited certification body. All non-FSC wood in assemblies with FSC-certified wood shall meet the FSC Controlled Wood (CW) criteria.
 - b. Compliance with California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM), Phase II for ultra-low-emitting formaldehyde (ULEF) resins or containing no added formaldehyde resins.
 - c. Composite Wood:
 - 1) Product-specific declaration or Industry-wide EPD or product-specific EPD. Include EPD Summary.
 - 2) For recycled content composite wood: Documentation indicating percentages by weight pre-consumer and post-consumer recycled content. Include material cost value.
- C. Solid Wood: Clear, dry, sound, plain sawn, selected for compatible species, grain and color, no defects.
- D. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications. complying with Grade requirements, and standard with the manufacturer.

2.9 ACCESSORIES

A. Plastic Edge Banding: Extruded PVC, convex shaped; smooth finish; self locking serrated tongue; of width to match component thickness.

1. Size: 1mm at cabinet faces and shelf edges, 3mm at door and drawer fronts.

- 2. Color: As selected by Architect from manufacturer's custom range.
- B. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.
- C. Concealed Joint Fasteners: Corrosion-resistant, standard with manufacturer.
- D. Grommets: Standard plastic, painted metal, or rubber grommets for cut-outs, in color to match adjacent surface.
- E. Mailbox Nameplate/Label Holder: Aluminum or plated steel.
 1. Size: 2-1/2 inches wide by 1/2 inches tall.
 2. Finsh: Mill finish.

PART 3 EXECUTION

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- 3.1 PREPARATION
 - A. Large Components: Ensure that large components can be moved into final position without damage to other construction.

3.2 EXAMINATION

- A. Site Verification of Environmental Conditions:
 - 1. Do not deliver casework until the following conditions have been met:
 - a. Building has been enclosed (windows and doors sealed and weather-tight).
 - b. An operational HVAC system that maintains temperature and humidity at occupancy levels has been put in place.
 - c. Ceiling, overhead ductwork, piping, and lighting have been installed.
 - d. Installation areas do not require further wet work construction.
- B. For Base Cabinets Installation: Examine floor levelness and flatness of installation space. Do not proceed with installation if encountered floor conditions required more than 1/2 inch leveling adjustment. When installation conditions are acceptable, for each space, establish the high point of the floor. Set and make level and plumb first cabinet in relation to this high point.
- C. For Wall Cabinets Installation: Examine wall surfaces in installation space. Do not proceed with installation if the following conditions are encountered:
 - 1. Maximum variation from plane of masonry wall exceeds 1/4 inch in 10 ft and 1/2 inch in 20 ft or more, and/or maximum variation from plumb exceeds 1/4 inchper story.
 - 2. Maximum Variation of finished gypsum board surface from true flatness: 1/8 inch in 10 feet in any direction.
- D. Verify adequacy of support framing and anchors.
- E. Verify that service connections are correctly located and of proper characteristics.

3.3 INSTALLATION

- A. Perform installation in accordance with manufacturer's instructions.
- B. Use anchoring devices to suit conditions and substrate materials encountered. Use concealed fasteners to the greatest degree possible. Use exposed fasteners only where allowed by approved shop drawings, or where concealed fasteners are impracticable.
- C. Set casework items plumb and square, securely anchored to building structure.
- D. Align cabinets to adjoining components, install filler and/or scribe panels where necessary to close gaps.
- E. Fasten together cabinets in continuous runs, with joints flush, uniform and tight. Misalignment of adjacent units not to exceed 1/16 inch. In addition, do not exceed the following tolerances:
 - 1. Variation of Tops of Base Cabinets from Level: 1/16 inch in 10 feet.
 - 2. Variation of Bottoms of Wall Cabinets from Level: 1/8 inch in 10 feet.
 - 3. Variation of Faces of Cabinets from a True Plane: 1/8 inch in 10 feet.
 - 4. Variation of Adjacent Surfaces from a True Plane (Lippage): 1/32 inch.
 - 5. Variation in Alignment of Adjacent Door and Drawer Edges: 1/16 inch.
- F. Secure wall and floor cabinets to concealed reinforcement at gypsum board assemblies.
- G. Base Cabinets: Fasten cabinets to service space framing and/or wall substrates, with fasteners spaced not more than 16 inches on center. Bolt adjacent cabinets together with joints flush, tight, and uniform.

- 1. Where base cabinets are installed away from walls or service space framing, anchor to floor at toe space at not more than 24 inches on center, and at sides of cabinets with not less than two fasteners per side.
- H. Wall Cabinets: Fasten to 1" thick hanging strips. Fasten each cabinet through back, near top, at not less than 16 inches on center.
- I. Install hardware uniformly and precisely.
- J. Countertops: Install countertops intended and furnished for field installation in one true plane, with ends abutting at hairline joints, and no raised edges.
- K. Replace units that are damaged, including those that have damaged finishes.

3.4 ADJUSTING

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A. Adjust operating parts, including doors, drawers, hardware, and fixtures to function smoothly.

3.5 CLEANING

- A. See Section 01 7419 Construction Waste Management and Disposal, for additional requirements.
- B. Clean casework and other installed surfaces thoroughly.

3.6 PROTECTION

- A. Do not permit finished casework to be exposed to continued construction activity.
- B. Protect casework and countertops from ongoing construction activities. Prevent workmen from standing on, or storing tools and materials on casework or countertops.
- C. Repair damage, including to finishes, that occurs prior to Date of Substantial Completion, using methods prescribed by manufacturer; replace units that cannot be repaired to like-new condition.

END OF SECTION

SECTION 12 3600 - COUNTERTOPS

PART 1 GENERAL

- 1.1 SECTION INCLUDES
 - A. Countertops for architectural cabinet work.
 - B. Countertops for manufactured casework.
 - C. Wall-hung counters and vanity tops.
 - D. Window sills.

1.2 REFERENCE STANDARDS

- A. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. AWI (QCP) Architectural Woodwork Institute, Quality Certification Program; current edition: www.awiqcp.org.
- C. ISFA 2-01 Classification and Standards for Solid Surfacing Material.
- D. NEMA LD 3 High-Pressure Decorative Laminates.
- E. PS 1 Structural Plywood.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Specimen warranty.
- B. Shop Drawings: Complete details of materials and installation; combine with shop drawings of cabinets and casework specified in other sections.
- C. LEED Submittals: Comply with Section 01 3329 Sustainable Design Requirements LEED v4/v4.1.
 - 1. MR Credit 2: BPDO Environmental Product Declarations
 - a. For composite wood: Product-specific declaration or Industry-wide EPD or product-specific EPD. Include EPD Summary.
 - 2. MR Credit 3: BPDO Sourcing of Raw Materials
 - a. For recycled content composite wood: Documentation indicating percentages by weight pre-consumer and post-consumer recycled content. Include material cost value.
 - b. For certified wood: Documentation indicating percentage new wood, percentage FSC and Chain-of-Custody (CoC) certificates indicating compliance with forest certification requirements. Include vendor invoice indicating FSC CoC.
 - 3. MR Credit 4: BPDO Material Ingredients
 - a. For composite wood and plastic finishes provide Material Ingredient Report.

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- 4. EQ Credit 2: Low-Emitting Materials
 - a. For composite wood installed within the building interior: Documentation indicating compliance with California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM), Phase II for ultra-low-emitting formaldehyde (ULEF) resins or containing no added formaldehyde resins.
- D. Verification Samples: For each finish product specified, minimum size 6 inches square, representing actual product, color, and patterns.
- E. Test Reports: Chemical resistance testing, showing compliance with specified requirements.
- F. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of countertop surfaces.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than three years of documented experience.
- B. Quality Certification: Provide AWI Quality Certification Program inspection report and quality certification of completed work.
 - 1. Provide labels or certificates indicating that the work complies with requirements of AWI Grade or Grades specified.
 - 2. Register with AWI QCP and provide project number(s) with shop drawings.
 - 3. Prior to delivery to the site provide shop drawings with certification labels.
 - 4. Provide labels on each product when required by certification program.
 - 5. Upon completion of installation provide certificate certifying that the installation and products meet the specified requirements.
 - 6. Arrange and pay for inspections required for certification.
 - 7. Replace, repair, or rework all work for which certification is refused.
- C. Quality Expectations: Materials must be designed, constructed and installed to meet the intended use and expected abuse to be incurred within the educational environment. This specification outlines the minimum requirements for material quality, construction, finish and overall workmanship to be provided. The finished products shall be functional, have an extended life expectancy with minimal maintenance and be operationally safe.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.6 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.7 MOCK-UP

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A. Provide mock-up of typical classroom countertops, including penetrations for plumbing fixtures and associated accessories.

- B. Locate where directed.
- C. Mock-up may remain as part of the Work.

PART 2 PRODUCTS

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- 2.1 COUNTERTOPS AND WINDOW SILLS
 - A. Quality Standard: Custom Grade, in accordance with AWI Standards, current edition, unless noted otherwise.
 - B. Plastic Laminate Countertops: High-pressure decorative laminate (HPDL) sheet bonded to substrate.
 - 1. Laminate Sheet: NEMA LD 3, Grade HGS, 0.048 inch nominal thickness.
 - a. Manufacturers:
 - 1) Formica Corporation: www.formica.com/#sle.
 - 2) Panolam Industries International, Inc. Pionite: www.pionitelaminates.com.
 - 3) Wilsonart: www.wilsonart.com/#sle.
 - b. Finish: Matte or suede, gloss rating of 5 to 20.
 - c. Surface Color and Pattern: As selected by Architect from the manufacturer's custom line.
 - 2. Exposed Edge Treatment: Molded PVC edge with T-spline, sized to completely cover edge of panel.
 - a. Color: As selected by Architect from the manufacturer's custom line.
 - 3. Back and End Splashes: Same material, same construction.
 - C. Solid Surfacing Countertops and Sills: Solid surfacing sheet or plastic resin casting over continuous substrate.
 - 1. Flat Sheet Thickness: 1/2 inch, minimum.
 - 2. Solid Surfacing Sheet and Plastic Resin Castings: Complying with ISFA 2-01 and NEMA LD 3; acrylic or polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.
 - a. Manufacturers:
 - 1) Avonite Surfaces: www.avonitesurfaces.com/#sle.
 - 2) Dupont: www.corian.com/#sle.
 - 3) Formica Corporation: www.formica.com/#sle.
 - 4) Wilsonart: www.wilsonart.com/#sle.
 - b. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
 - c. Finish on Exposed Surfaces: Matte, gloss rating of 5 to 20.
 - d. Color and Pattern: As selected by Architect from manufacturer's custom line.
 - 3. Other Components Thickness: 1/2 inch, minimum.
 - 4. Back and End Splashes: Same sheet material, square top; minimum 4 inches high.
 - 5. Provide brackets and braces as required and as indicated on drawings.
 - 6. Fabricate in accordance with manufacturer's standard requirements.

2.2 MATERIALS

- A. Wood-Based Components:
 - 1. Wood fabricated from old growth timber is not permitted.
 - 2. Sustainable Design Requirements:

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- a. Forest Certification: Provide wood products made from forests certified by an FSC accredited certification body. All non-FSC wood in assemblies with FSC-certified wood shall meet the FSC Controlled Wood (CW) criteria.
- b. Compliance with California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM), Phase II for ultra-low-emitting formaldehyde (ULEF) resins or containing no added formaldehyde resins.
- c. Composite Wood:
 - 1) Product-specific declaration or Industry-wide EPD or product-specific EPD. Include EPD Summary.
 - 2) For recycled content composite wood: Documentation indicating percentages by weight pre-consumer and post-consumer recycled content. Include material cost value.
- B. Plywood for Supporting Substrate: PS 1 Exterior Grade, A-C veneer grade, minimum 5-ply; minimum 1/2 inch thick; join lengths using metal splines.
- C. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.
 - 1. Adhesives Used for Assembly: Comply with VOC requirements for adhesives and sealants as specified in Section 01 6116.

2.3 FABRICATION

- A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
 - 1. Join lengths of tops using best method recommended by manufacturer.
 - 2. Fabricate to overhang fronts and ends of cabinets 1 inch except where top butts against cabinet or wall.
 - 3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.
- B. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
 - 1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue.
 - 2. Height: 4 inches, unless otherwise indicated.
- C. Solid Surfacing: Fabricate tops and window sills up to 144 inches long in one piece; join pieces with adhesive sealant in accordance with manufacturer's recommendations and instructions.
- D. Wall-Mounted Counters: Provide brackets and braces as required and as indicated on drawings.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.

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3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.
- B. Attach plastic laminate countertops using screws with minimum penetration into substrate board of 5/8 inch.
- C. Seal joints between countertops and back/end splashes, as well as between countertops, back/end splashes and any adjacent vertical surfaces.

3.4 TOLERANCES

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- A. Variation From Horizontal: 1/8 inch in 10 feet, maximum.
- B. Offset From Wall, Countertops: 1/8 inch maximum; 1/16 inch minimum.
- C. Field Joints: 1/8 inch wide, maximum.

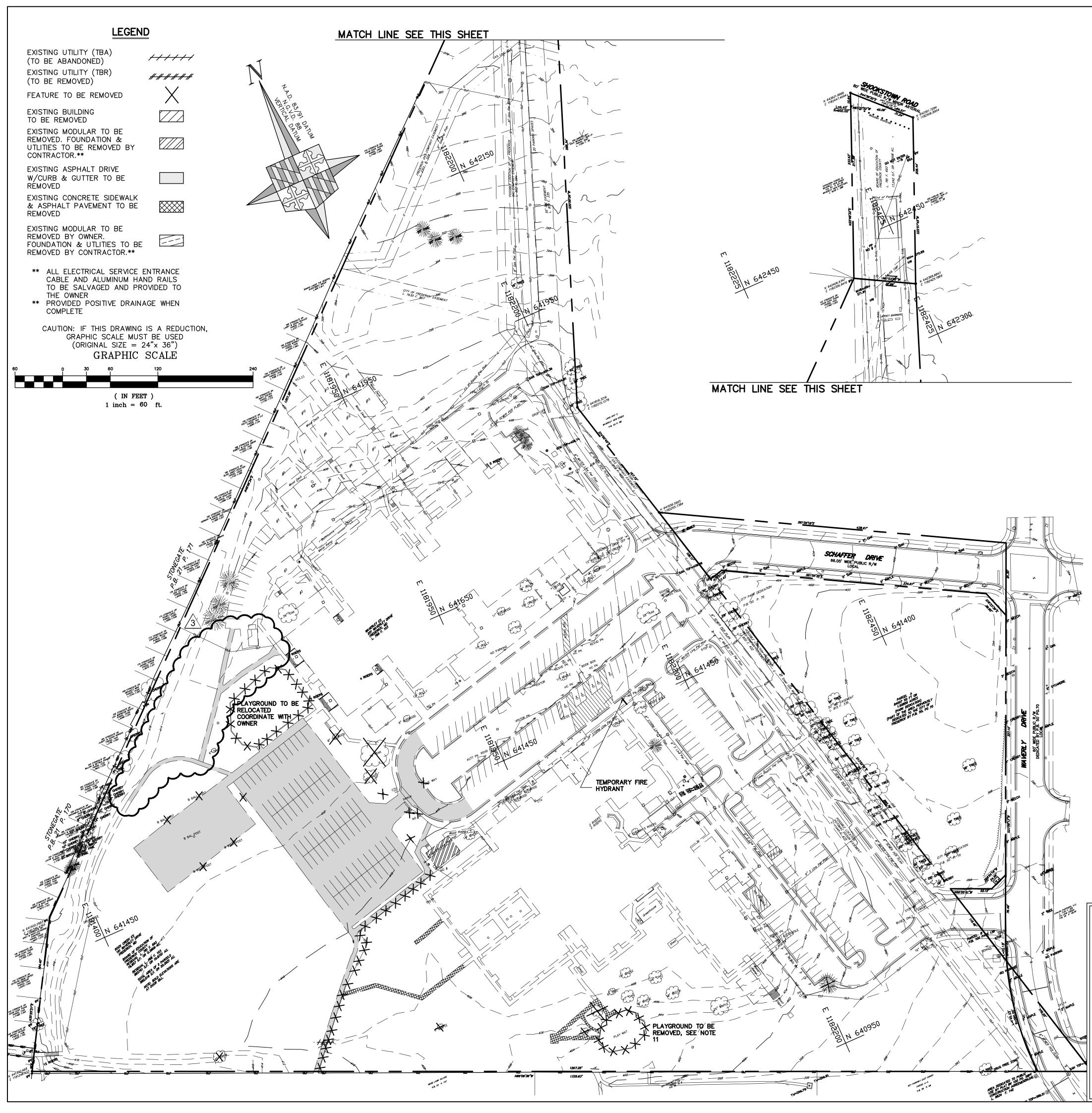
3.5 CLEANING

A. Clean countertops surfaces thoroughly.

3.6 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION



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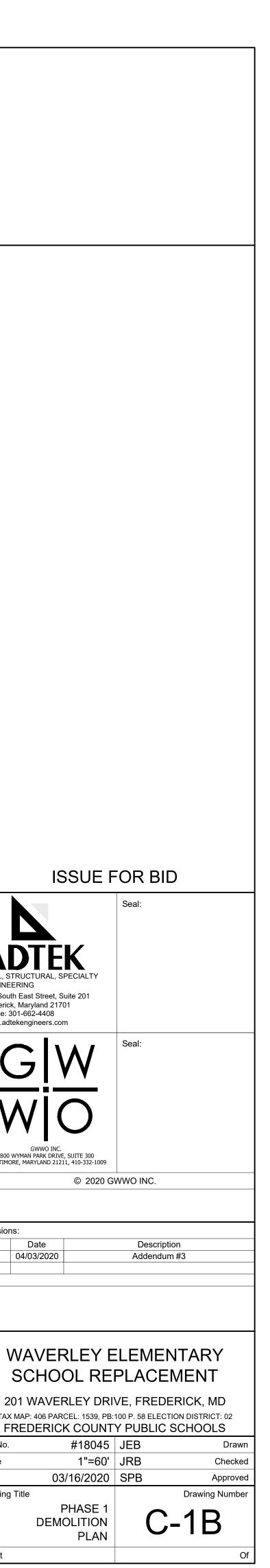
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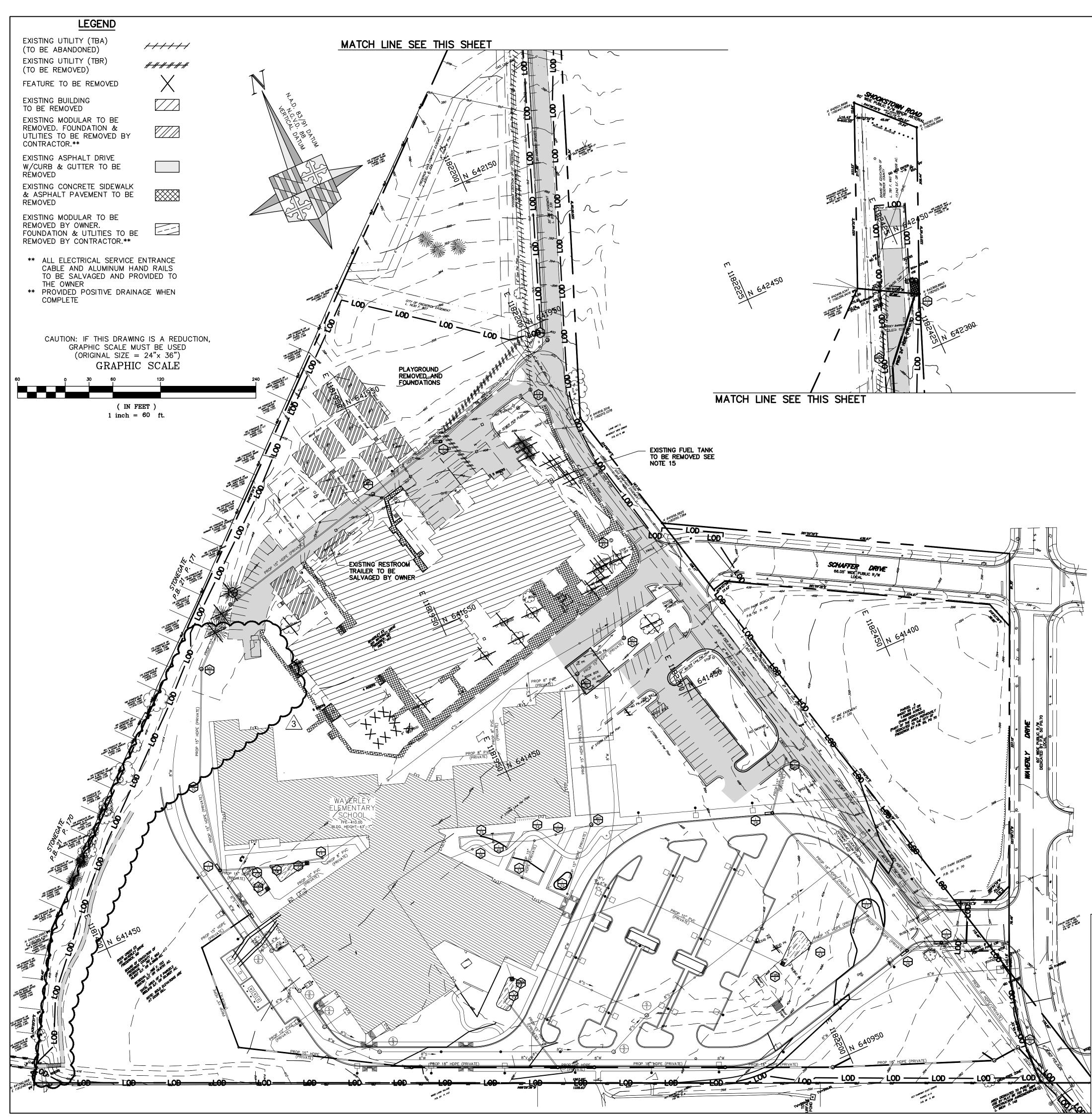
GENERAL DEMOLITION NOTES

- 1. CONTRACTOR SHALL PROVIDE REQUIRED SIGNAGE AND FLAGMEN ALONG ALL PUBLIC STREETS ADJACENT TO THE SITE, TO ASSURE THE SAFETY OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC. ALL TRAFFIC CONTROLS MUST BE IN ACCORDANCE WITH THE MOST CURRENT MUTCD REQUIREMENTS AND WITH THE MOST CURRENT CITY OF FREDERICK DOT WORK ZONE TRAFFIC CONTROL STANDARDS AND DETAILS.
- 2. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE MOST CURRENT APPLICABLE EPA AND OSHA REGULATIONS AND MUST COMPLY WITH THE MOST CURRENT FEDERAL, STATE AND/OR LOCAL REGULATIONS AND CODES APPLICABLE TO SAID WORK.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK WITH REPRESENTATIVE UTILITY COMPANIES AND IMPLEMENTING REQUIRED UTILITY-RELATED WORK ACCORDINGLY.
- 4. THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR OWNERS REPRESENTATIVE IMMEDIATELY UPON ENCOUNTERING ANY HAZARDOUS OR CONTAMINATED MATERIALS. THE CONTRACTOR SHALL DOCUMENT SAME TO THE OWNER TO OBTAIN DIRECTION AS TO THE APPROPRIATE ACTION(S) TO BE TAKEN.
- 5. WHERE NEW WORK IS TO BE DONE, CARE SHALL BE TAKEN TO PROTECT ALL EXISTING ADJACENT SURFACES AND AREAS FROM DAMAGE. ANY AREAS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 6. CONTRACTOR SHALL BACKFILL EXCAVATED AREAS WITH ACCEPTABLE MATERIAL, AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- 7. THE CONTRACTOR SHALL SHEET/SHORE AND BRACE ANY AND ALL STRUCTURES EXPOSED BY EXCAVATION/CONSTRUCTION.
- 8. IN THE EVENT THAT, DURING DEMOLITION OR CONSTRUCTION ACTIVITIES THE CONTRACTOR ENCOUNTERS ANY EXISTING UTILITIES/STRUCTURES NOT SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR DIRECTION PRIOR TO PROCEEDING WITH ANY WORK.
- 9. ALL SAWCUTS ARE TO BE STRAIGHT AND EVEN, JAGGED EDGES WILL NOT BE ACCEPTED.
- 10. IT IS THE INTENT OF THIS DEMOLITION PHASE TO PROVIDE A SITE CLEAR OF ALL PHYSICAL OBSTRUCTIONS THAT WOULD OTHERWISE IMPEDE NEW CONSTRUCTION.
- 11. REMOVAL OF PLAY AREAS INCLUDES REMOVAL OF EQUIPMENT AND FOUNDATIONS WITHIN PLAY AREAS.
- 12. THIS PLAN IS INTENDED TO PROVIDE AN OVERALL PICTURE OF DEMOLITION THAT WILL BE PERFORMED THROUGHOUT CONSTRUCTION. SOME DEMOLITION IS PHASED AND PROGRESSES AS CONSTRUCTION CONTINUES. ALL DEMOLITION, AND MOST IMPORTANTLY UTILITY DEMOLITION, MUST BE PERFORMED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLANS AND THE SEQUENCE OF CONSTRUCTION SHOWN ON DWG. NO. C-2Q.
- 13. THERE MAY BE ADDITIONAL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION THAT ARE NOT IDENTIFIED ON THESE PLANS. CONTRACTOR SHALL EXERCISE CAUTION DURING EXCAVATION AND IMMEDIATELY NOTIFY THE OWNER OF ANY ENCOUNTERED UTILITIES NOT PLANNED FOR. CONTRACTOR SHALL AS-BUILT ANY FOUND UTILITIES WITHIN THE LIMITS OF DISTURBANCE.
- 14. ALL UNDERGROUND UTILITIES ENCOUNTERED DURING DEMOLITION AND CONSTRUCTION SHALL BE ASSUMED TO BE LIVE UNTIL DETERMINED OTHERWISE.
- 15. REMOVE FUEL TANK AND ASSOCIATED AMENITIES INCLUDING CONCRETE PAD IN THEIR ENTIRETY. REMOVAL OF ANY MATERIAL WITHIN THE TANK SHALL BE BASE BID. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REMOVAL OF ANY ASSOCIATED CONTAMINATED SOILS AS DETERMINED BY GEOTECHNICAL ENGINEER. REMOVAL AND DISPOSAL SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.
- 16. REMOVE EXISTING FENCE AS NECESSARY.

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DATE IN TH ALL / ALLO	DATE: CITY ENGINEER: STRUCTION APPROVAL BY CITY ENGINEER OF APPROVAL. IF A BONA FIDE ATTEN HIS TWO (2) YEARS PERIOD, CITY APPRO APPROVALS ARE SUBJECT TO THE WATE CATION OF WATER. THE OWNER/DEVELO	VALID FOR A IPT TO COMME VAL SHALL BE R ALLOCATION	PERIOD OF TWO (ENCE CONSTRUCTIO E NULL AND VOID.	 2) YEARS FROM N HAS NOT BEGUN N NO WAY IMPLY
REV.	HER SOLE RISK. REVISION DESCRIPTION (FOR REVISIONS TO PREVIOUSLY APPR	OVED PLANS)	CONSULTANT: DATE AND INITIAL	CITY ENGINEER: DATE AND INITIAL

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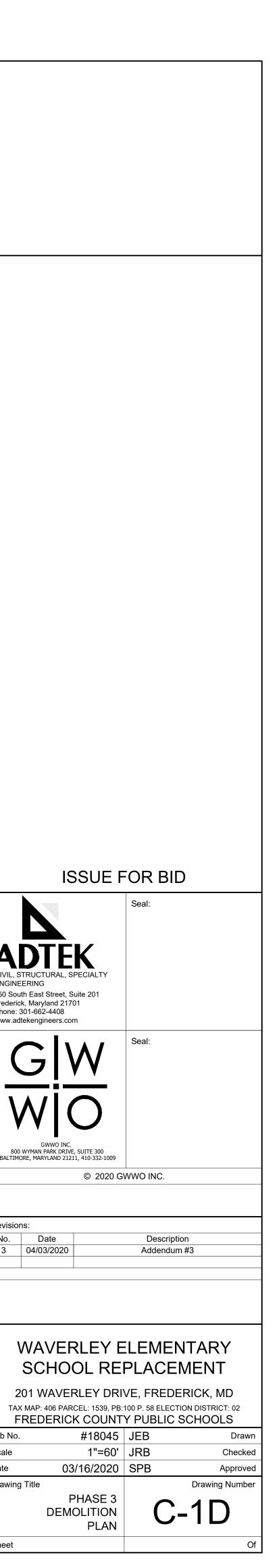
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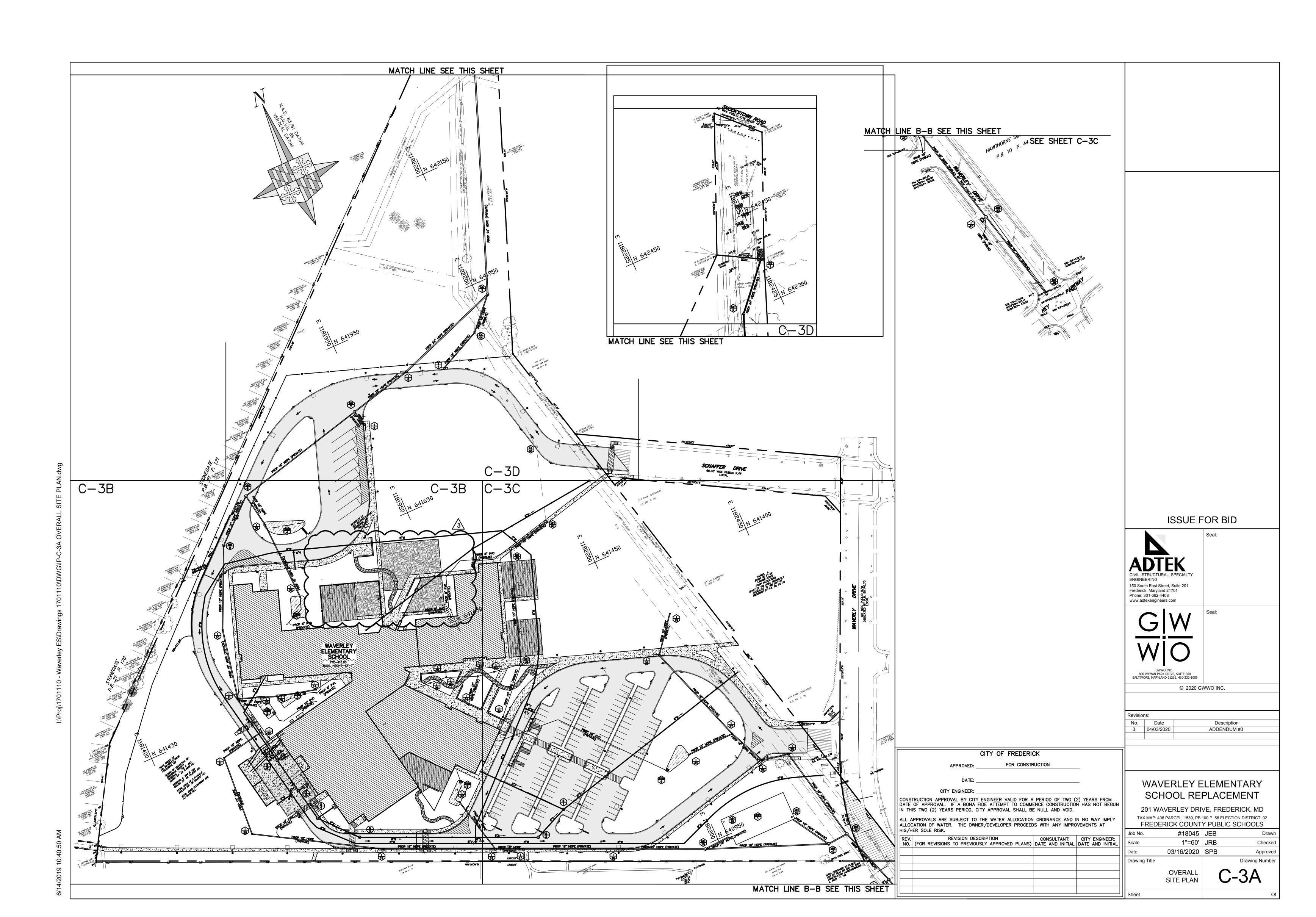
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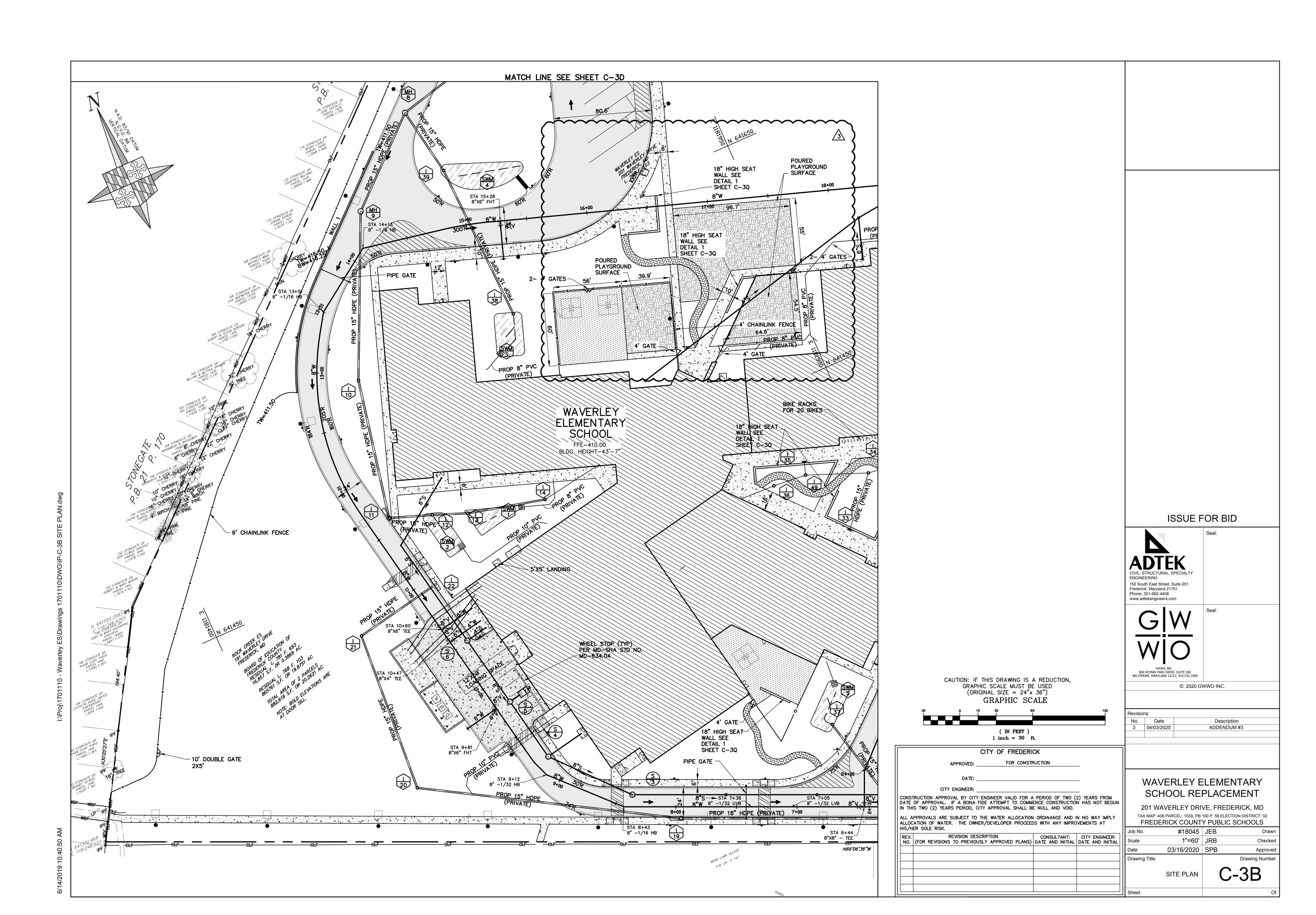
GENERAL DEMOLITION NOTES

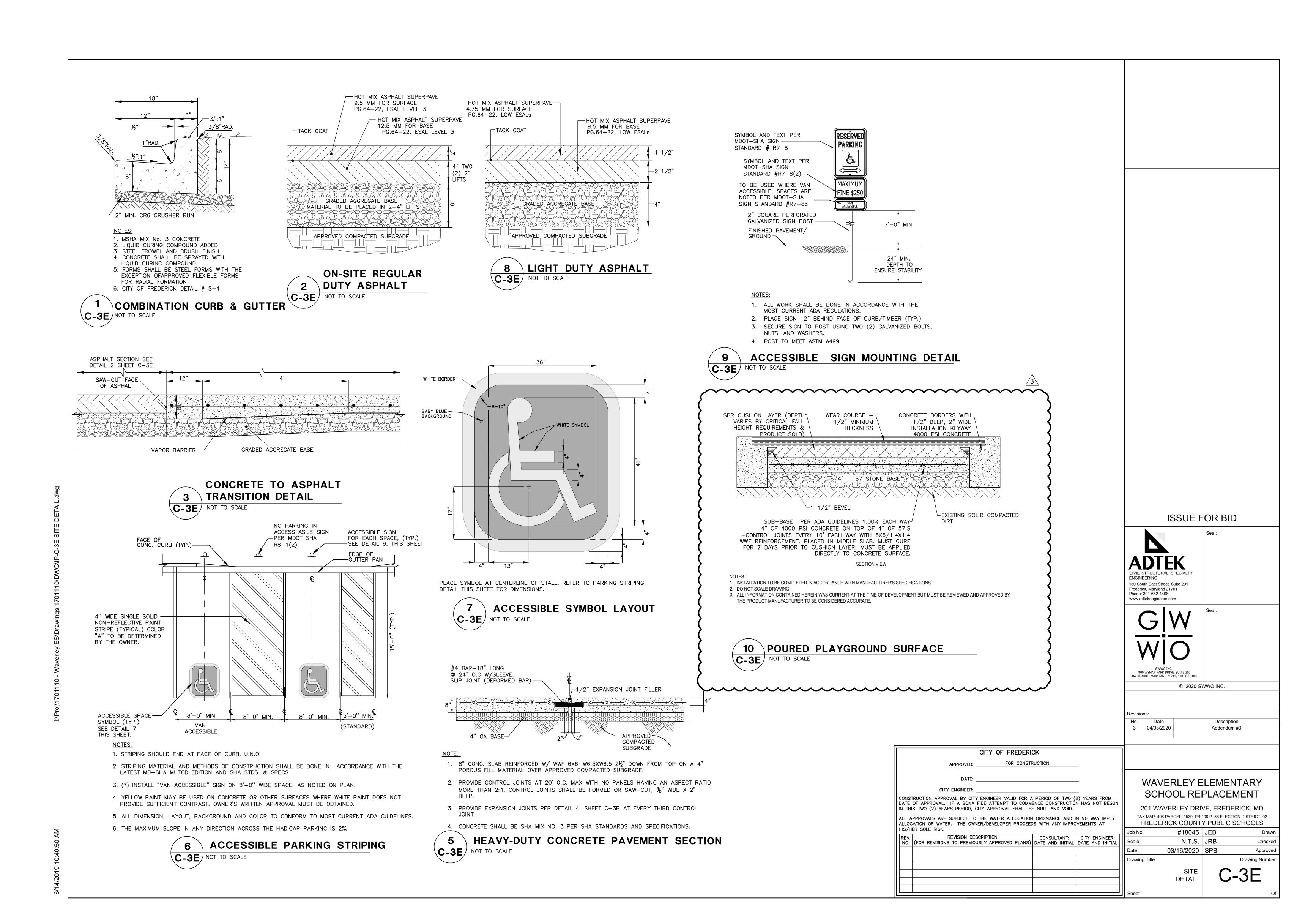
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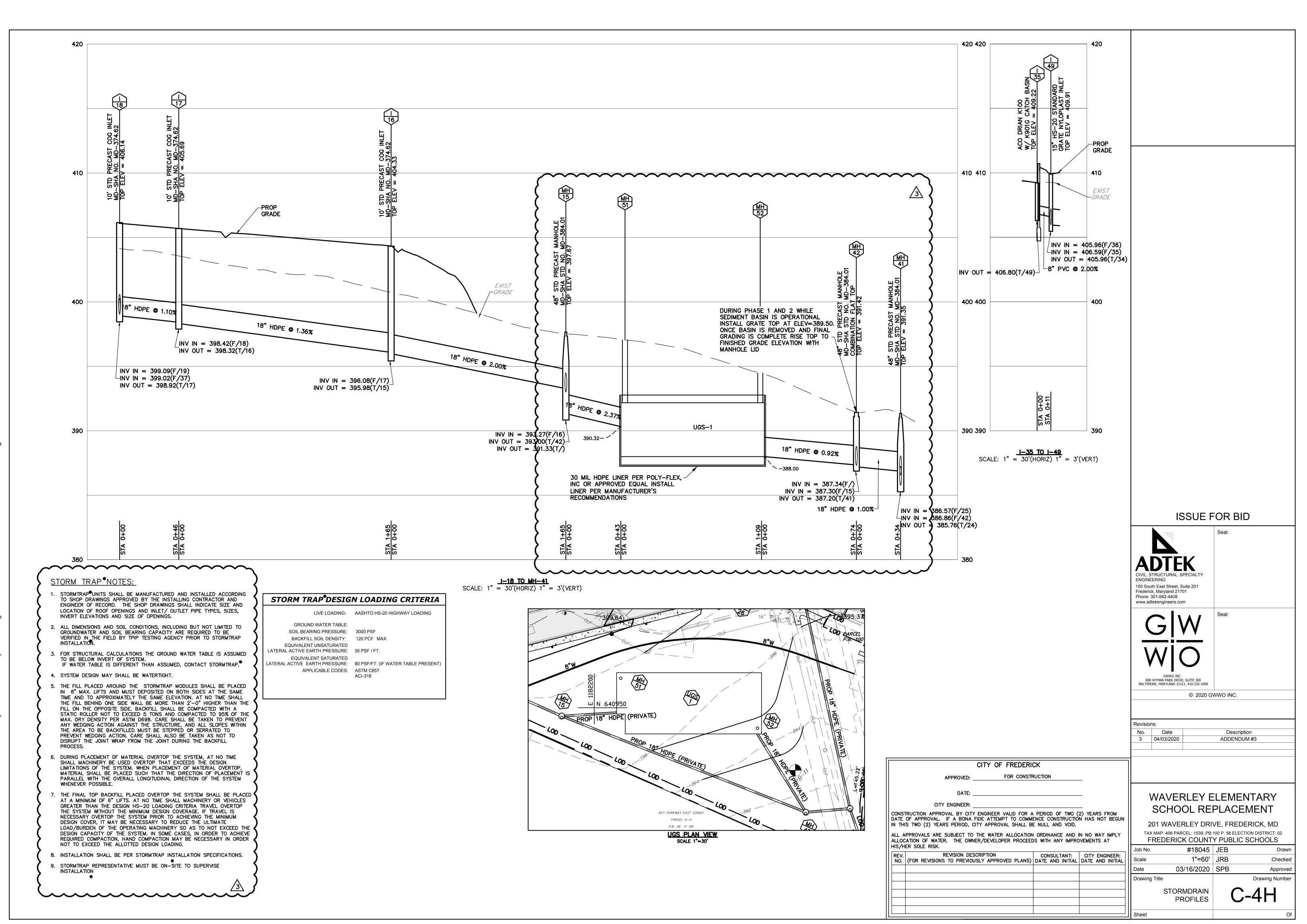
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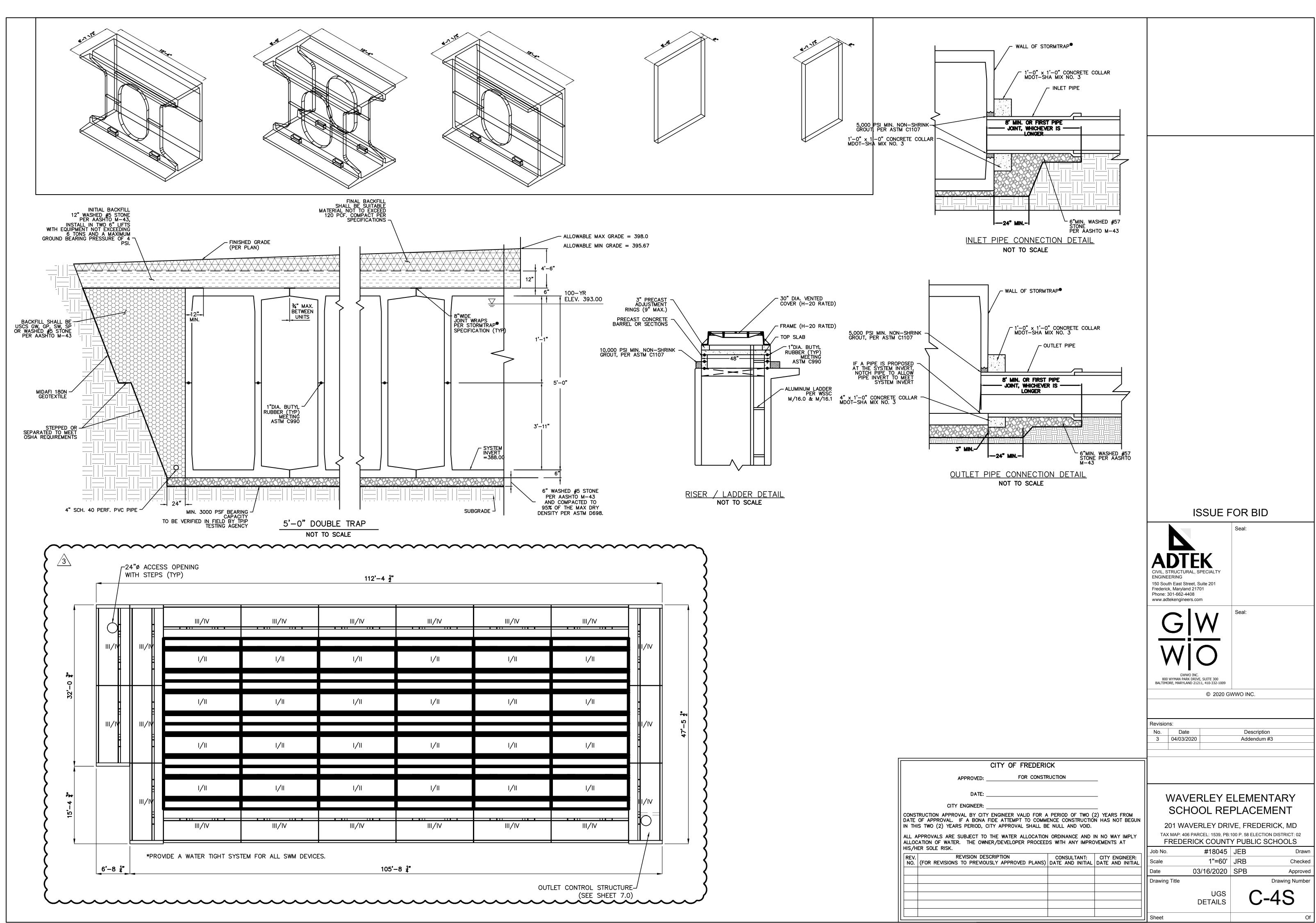




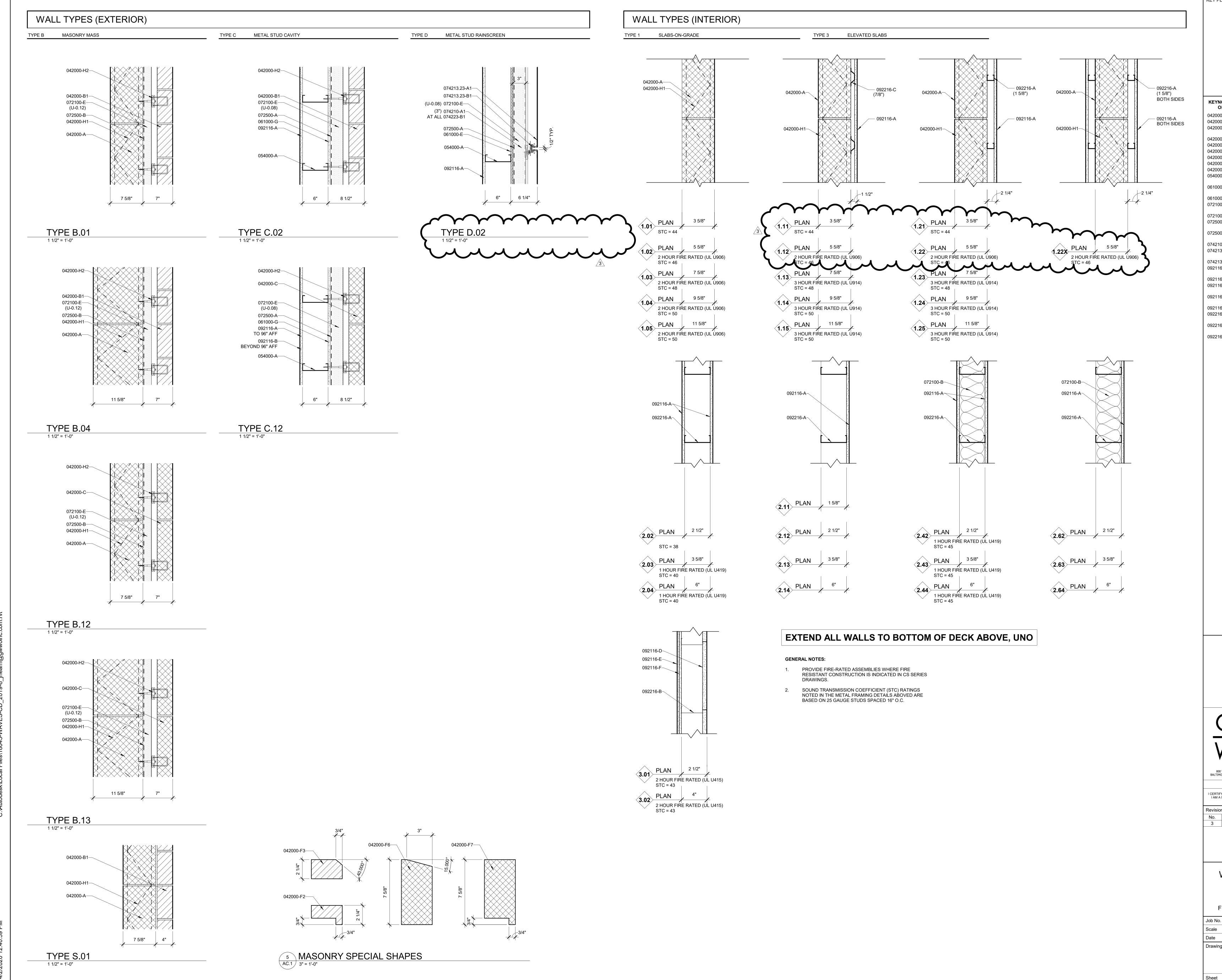


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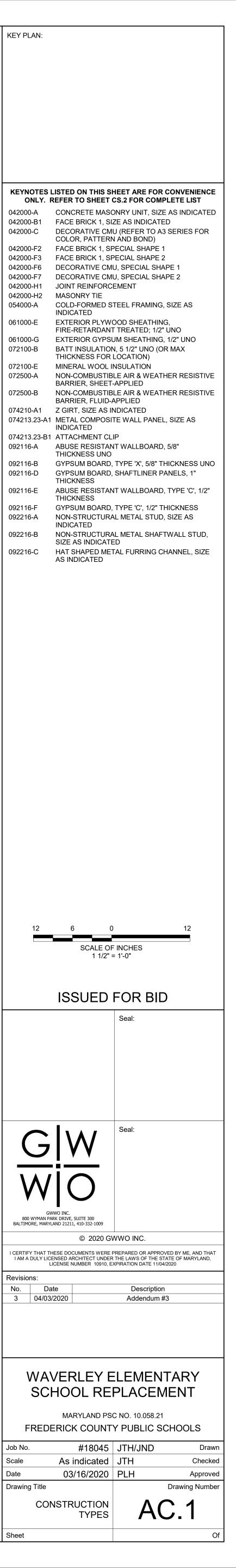
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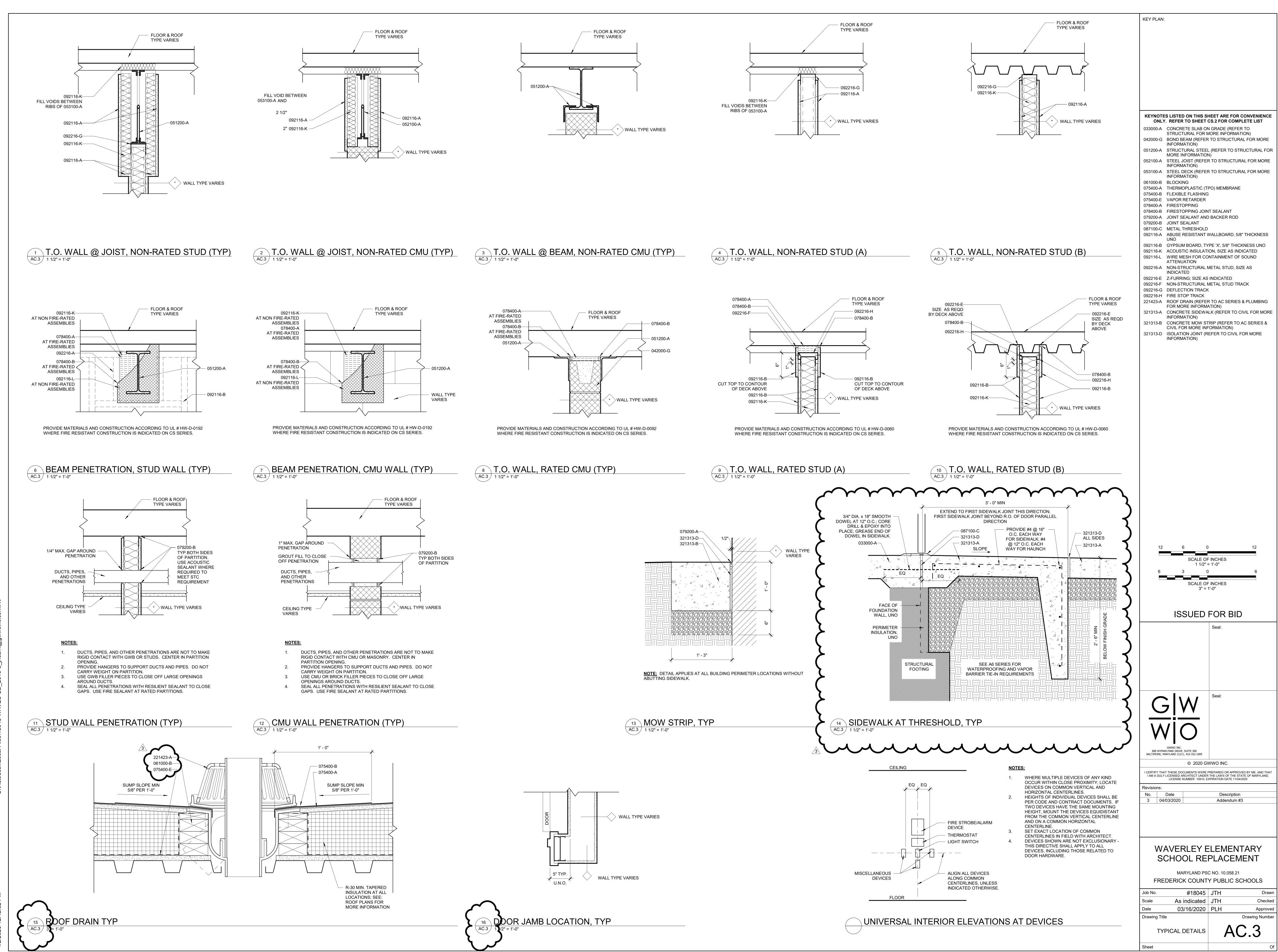


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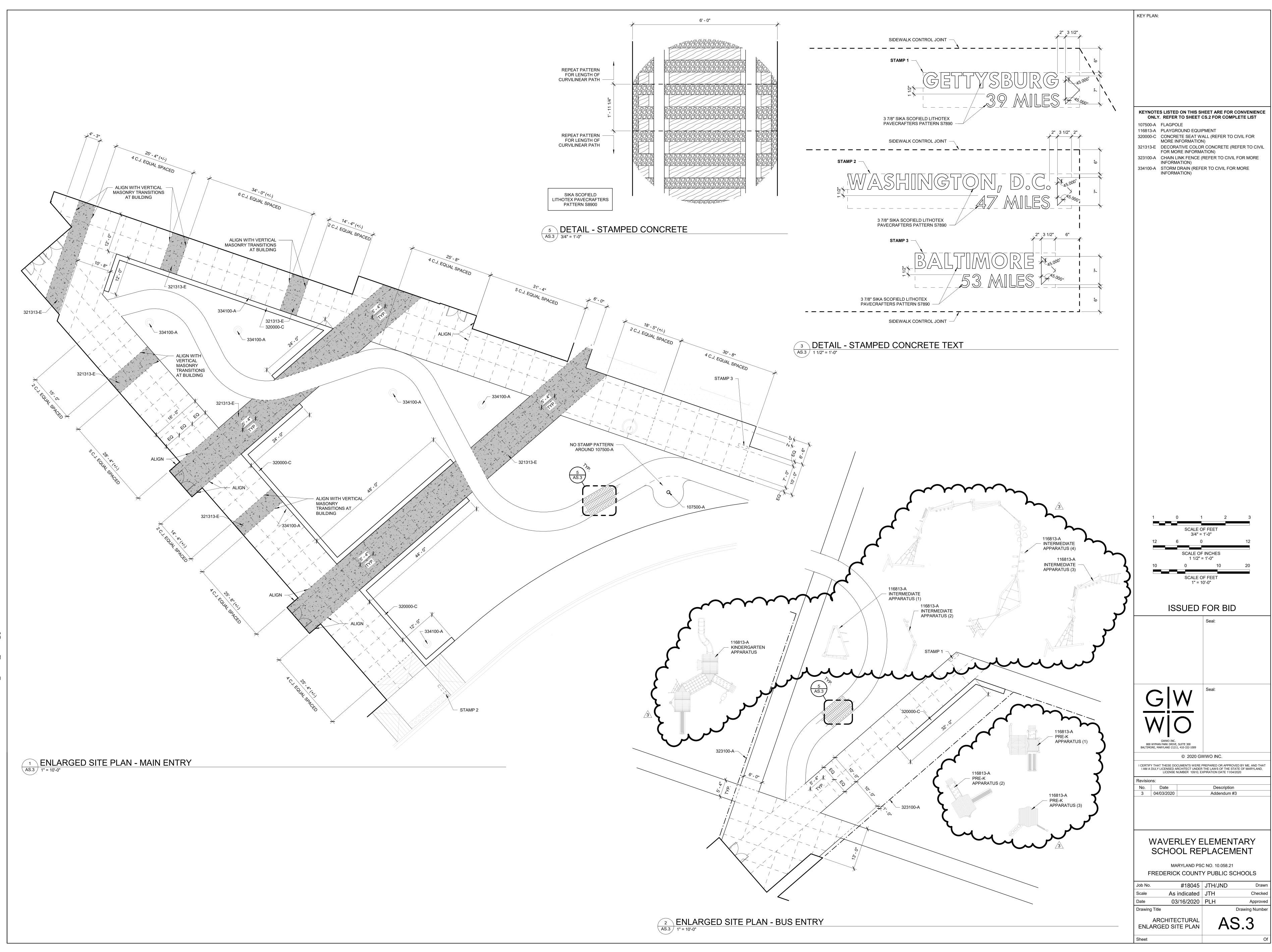
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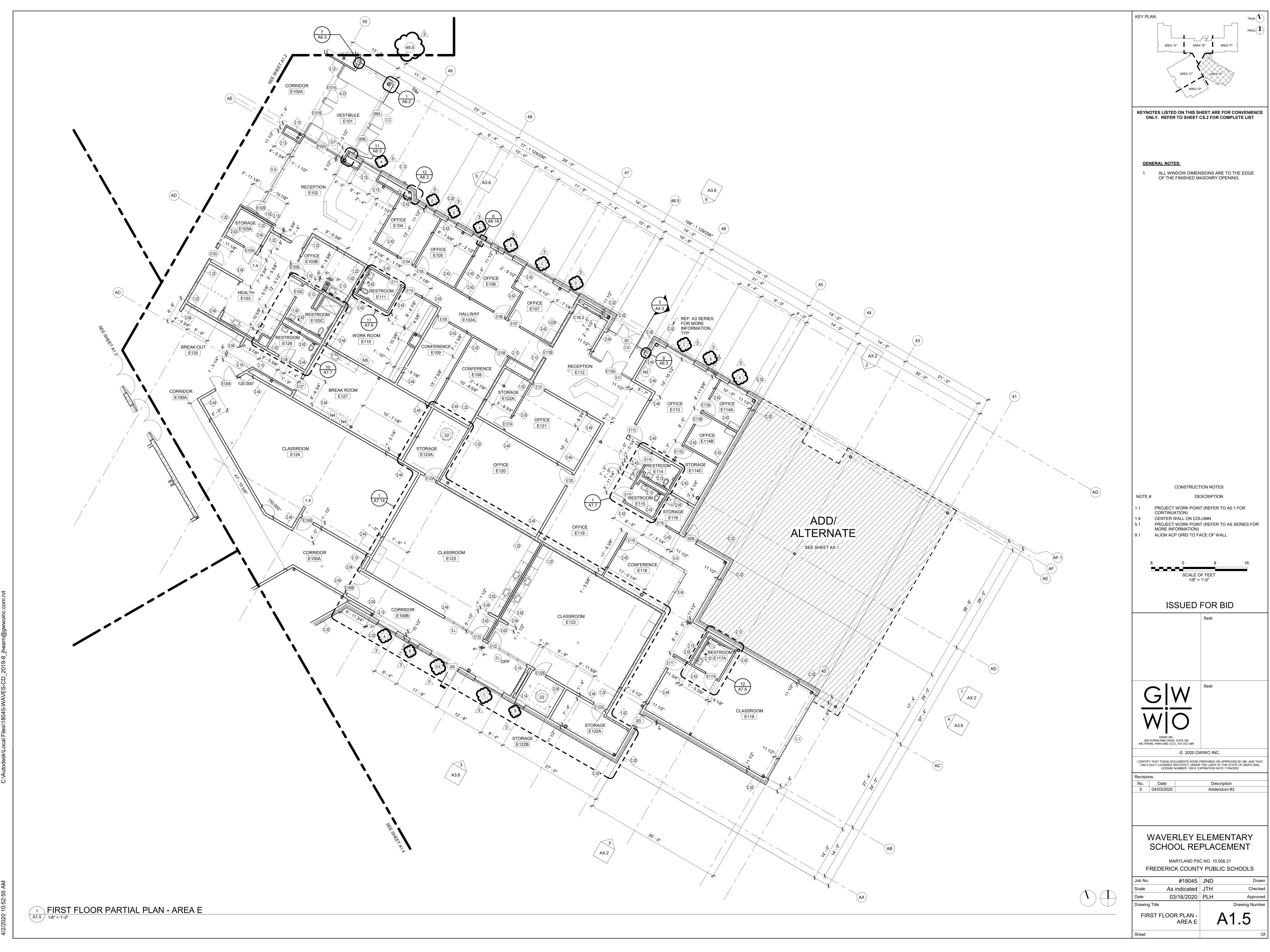
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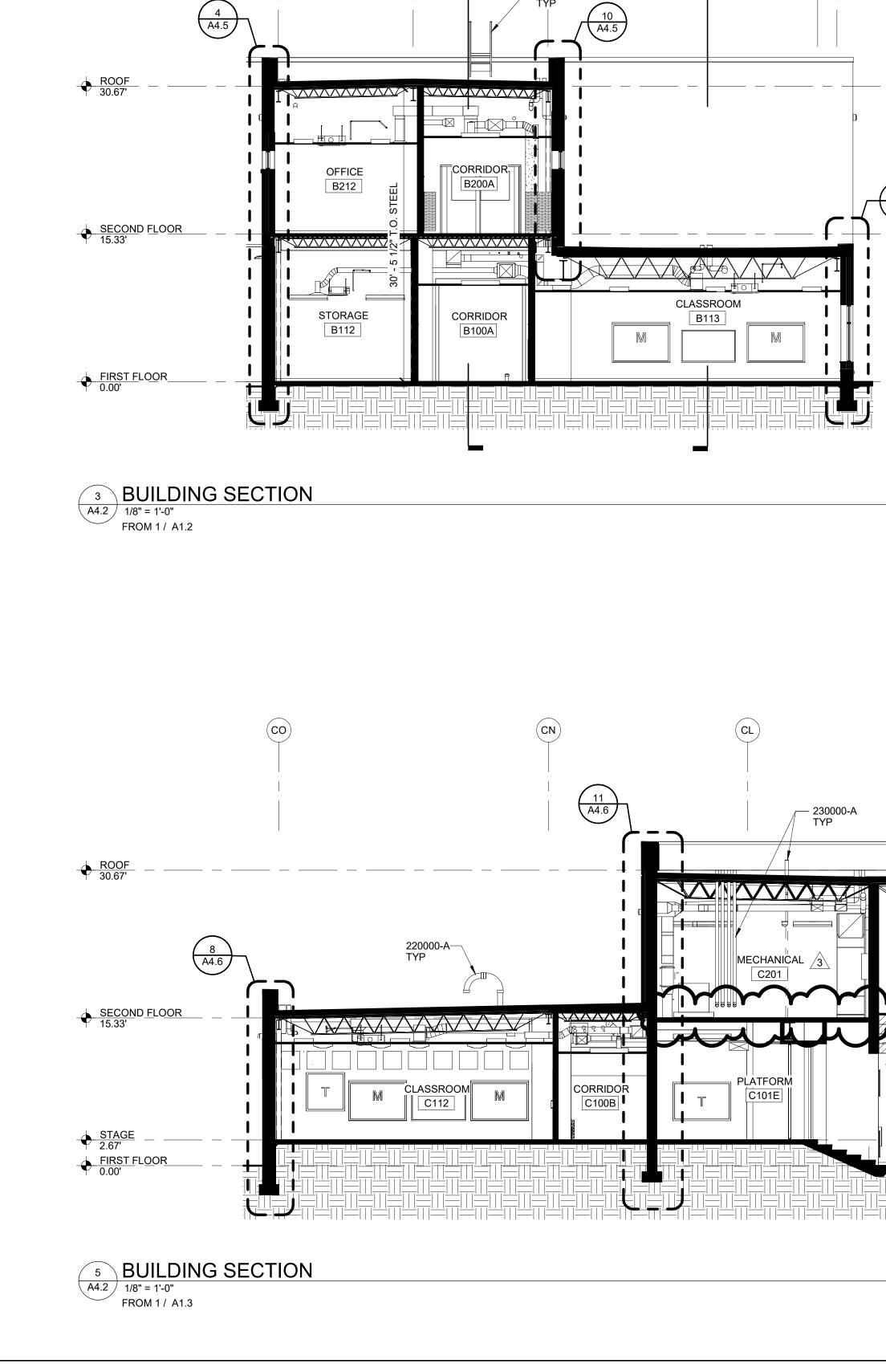
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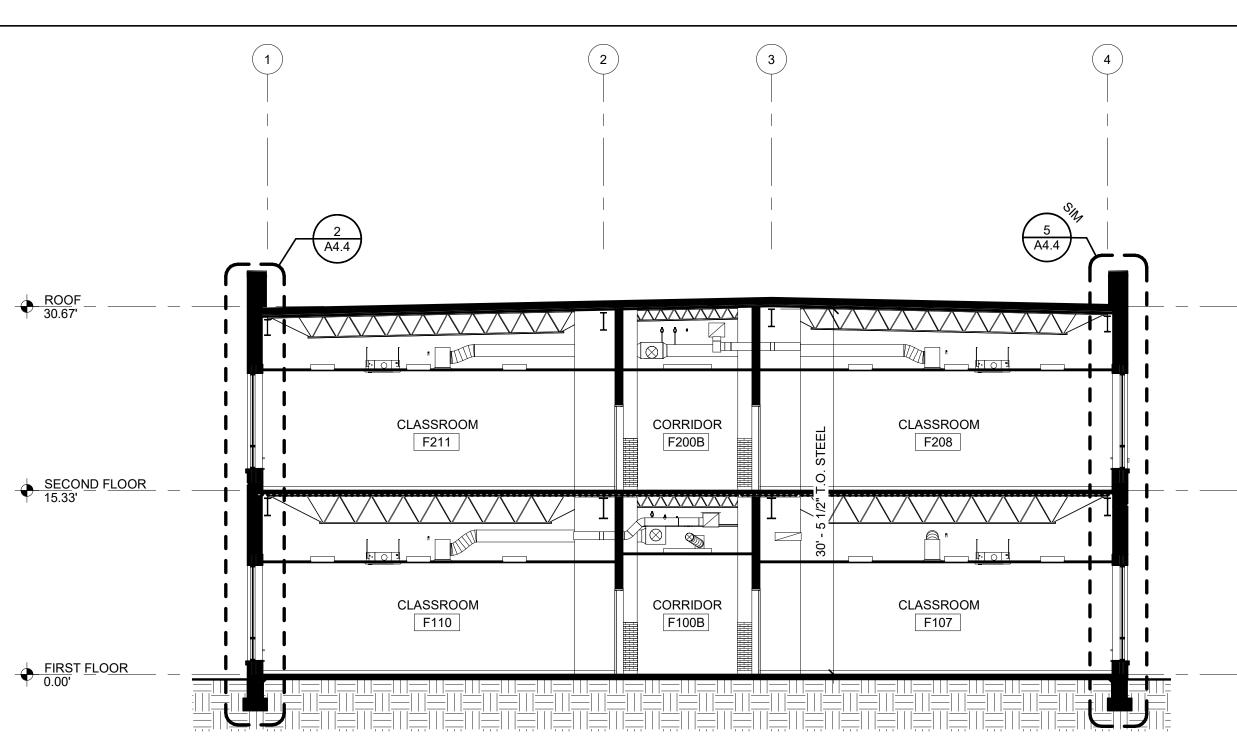
1 BUILDING SECTION A4.2 1/8" = 1'-0" FROM 1 / A1.1

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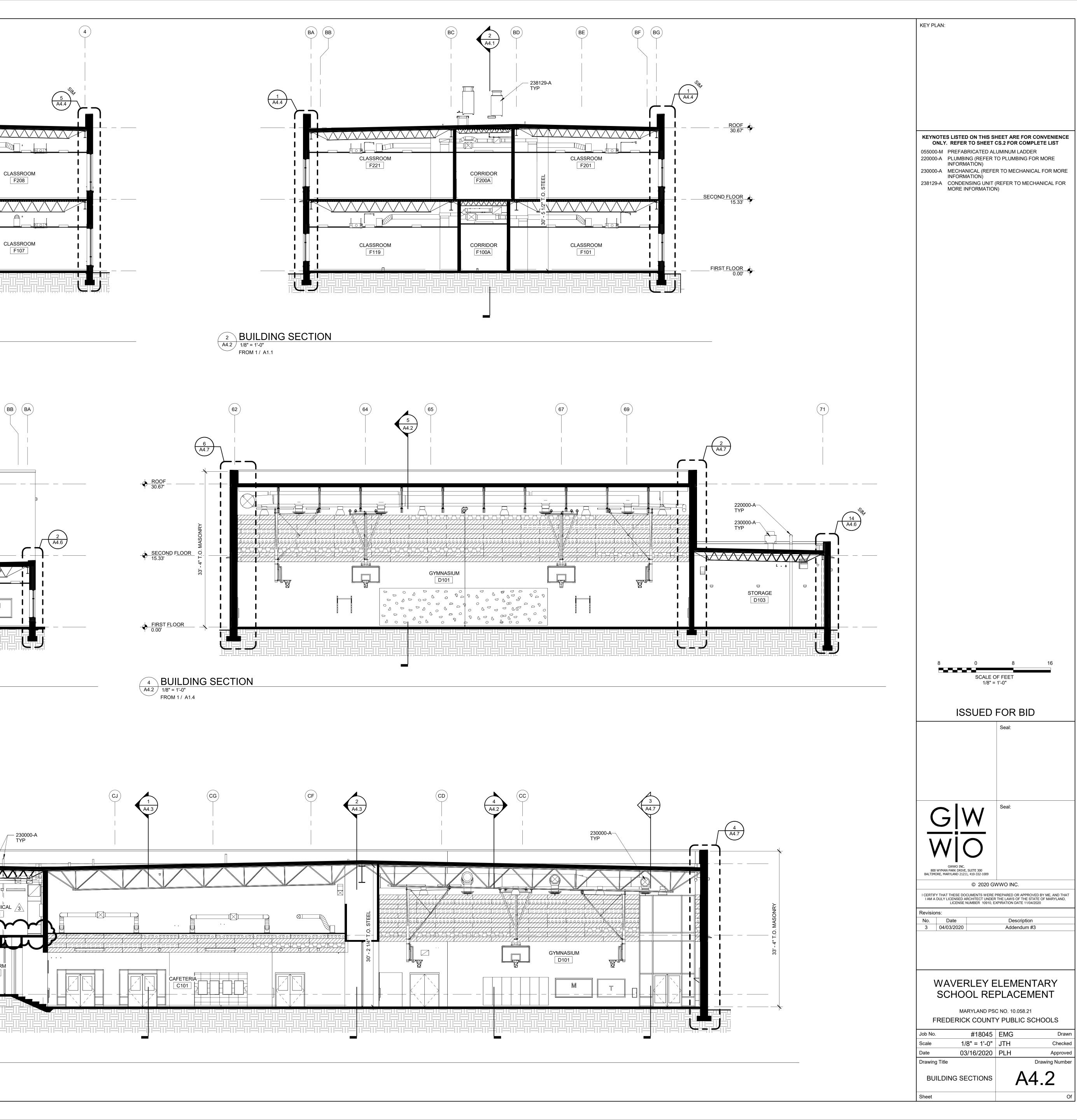
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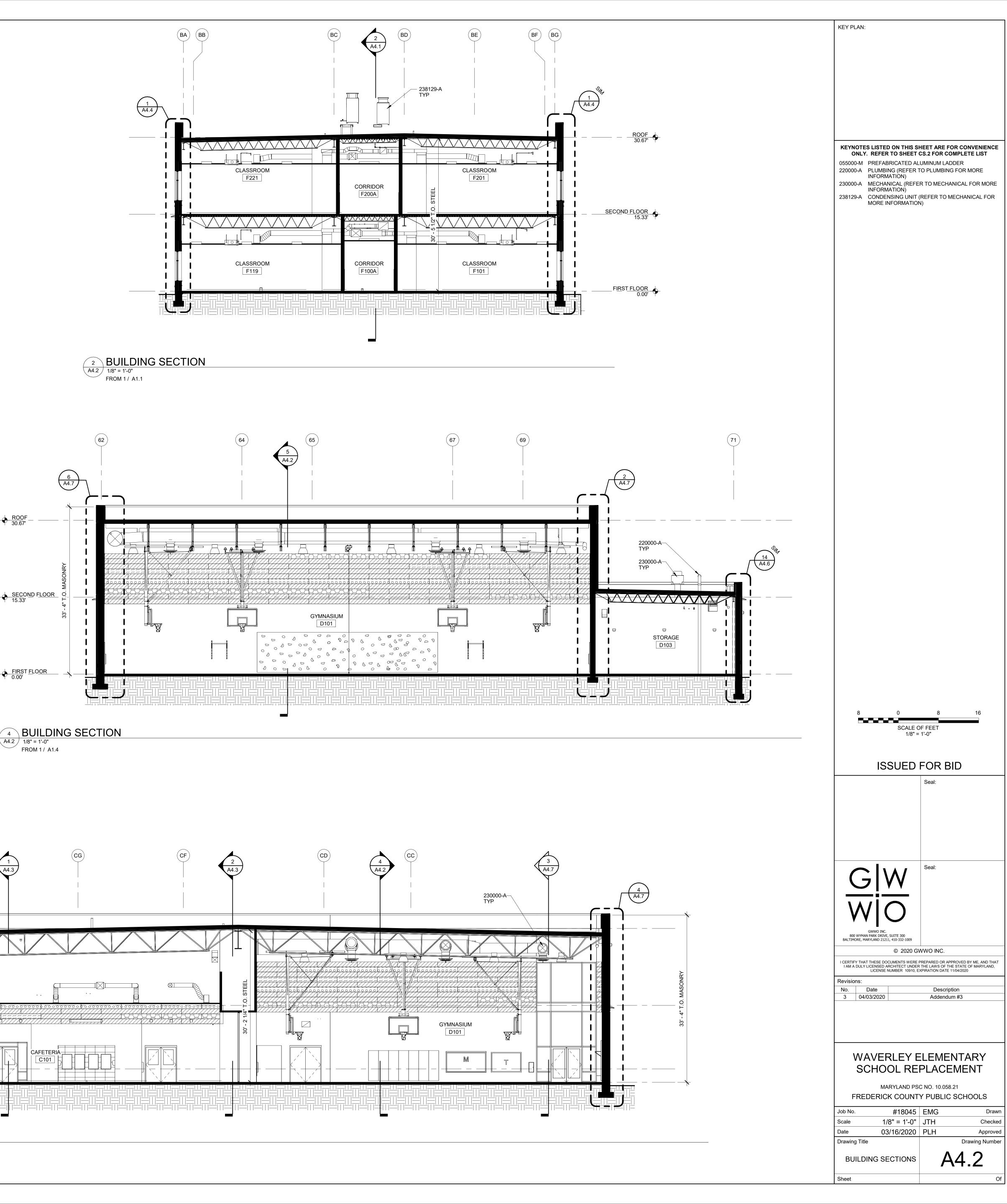
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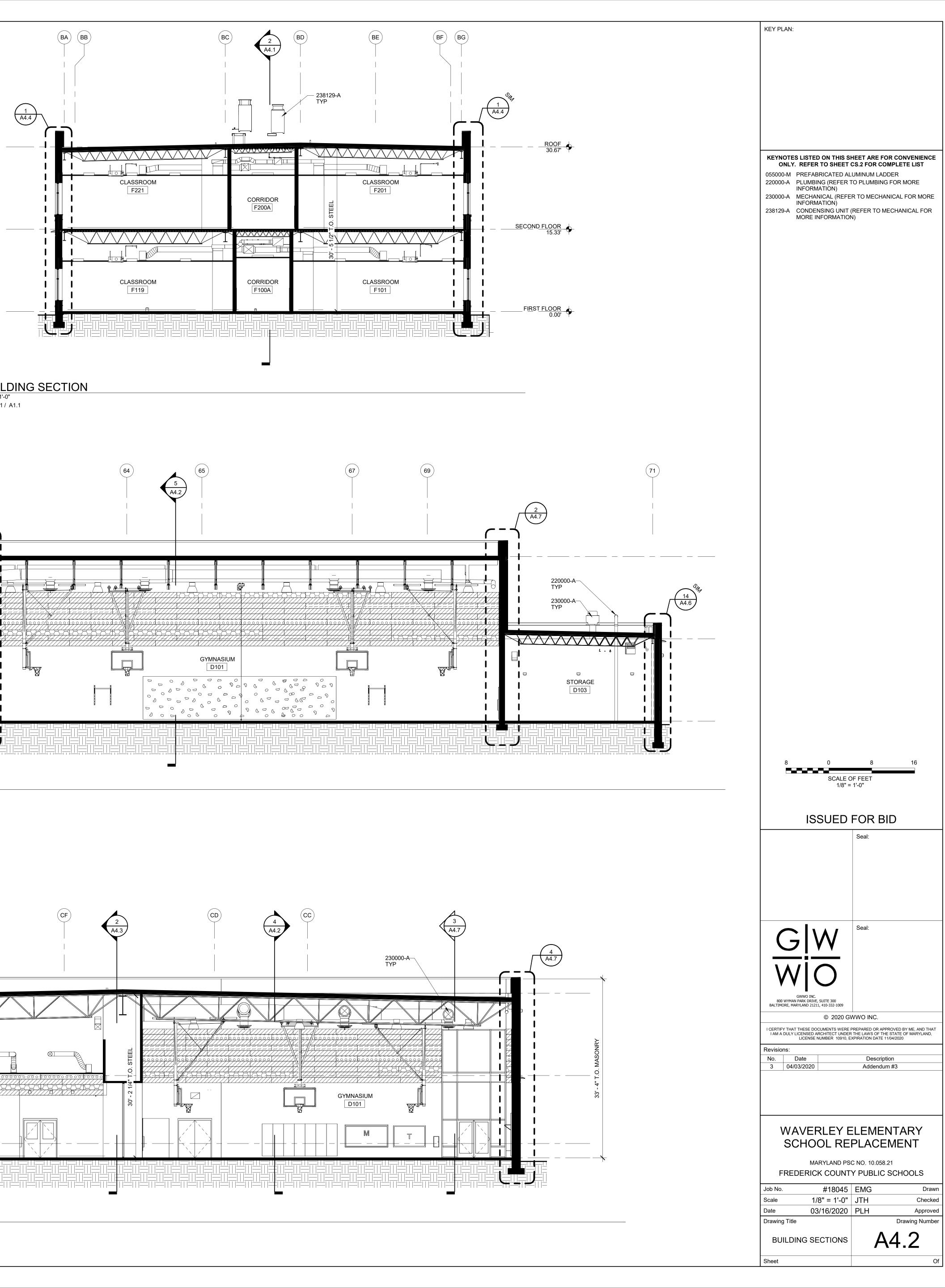


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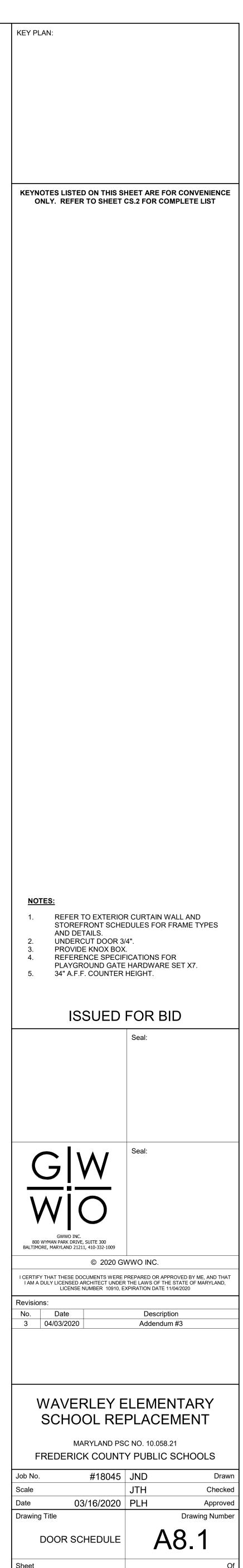


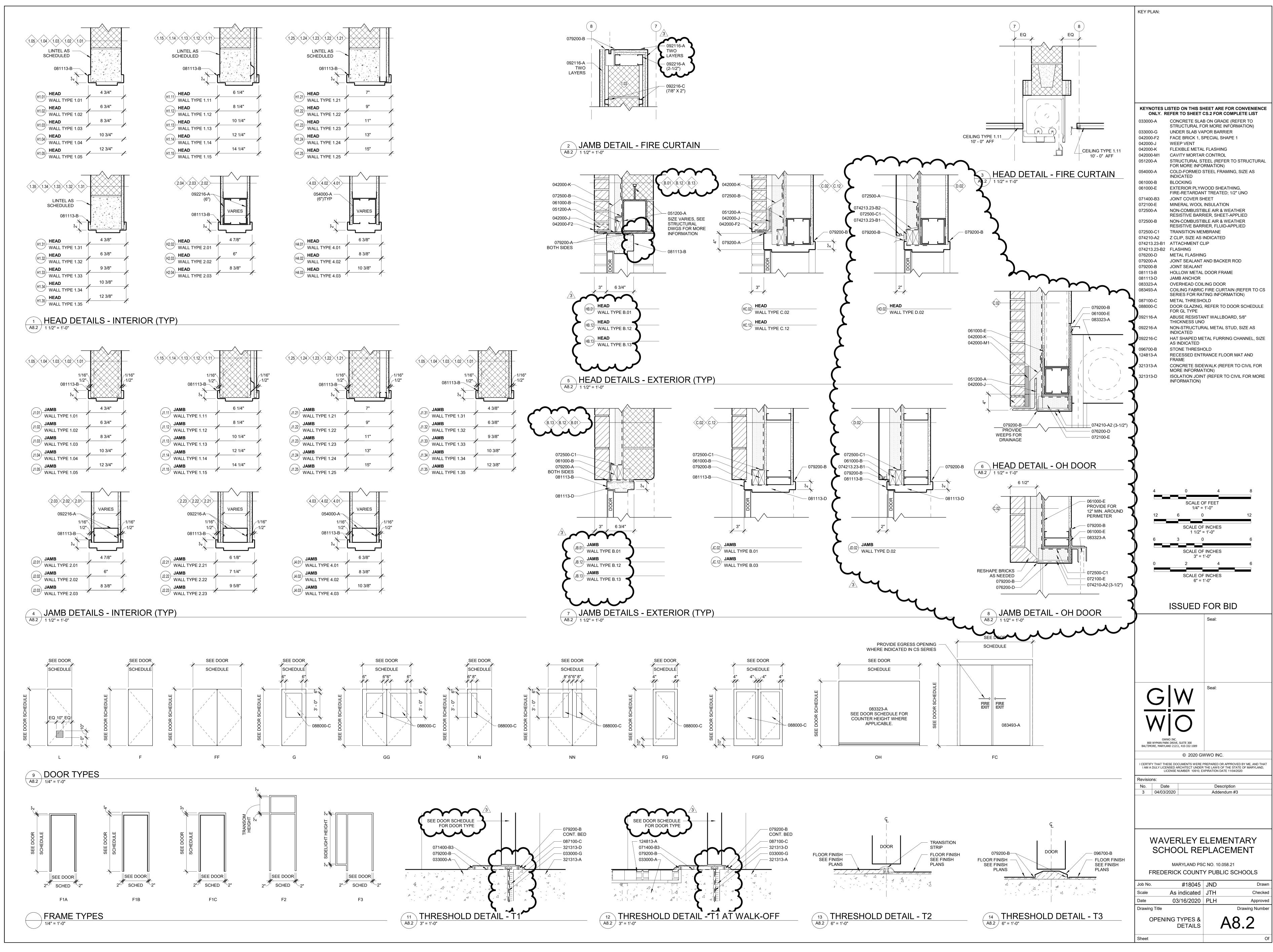


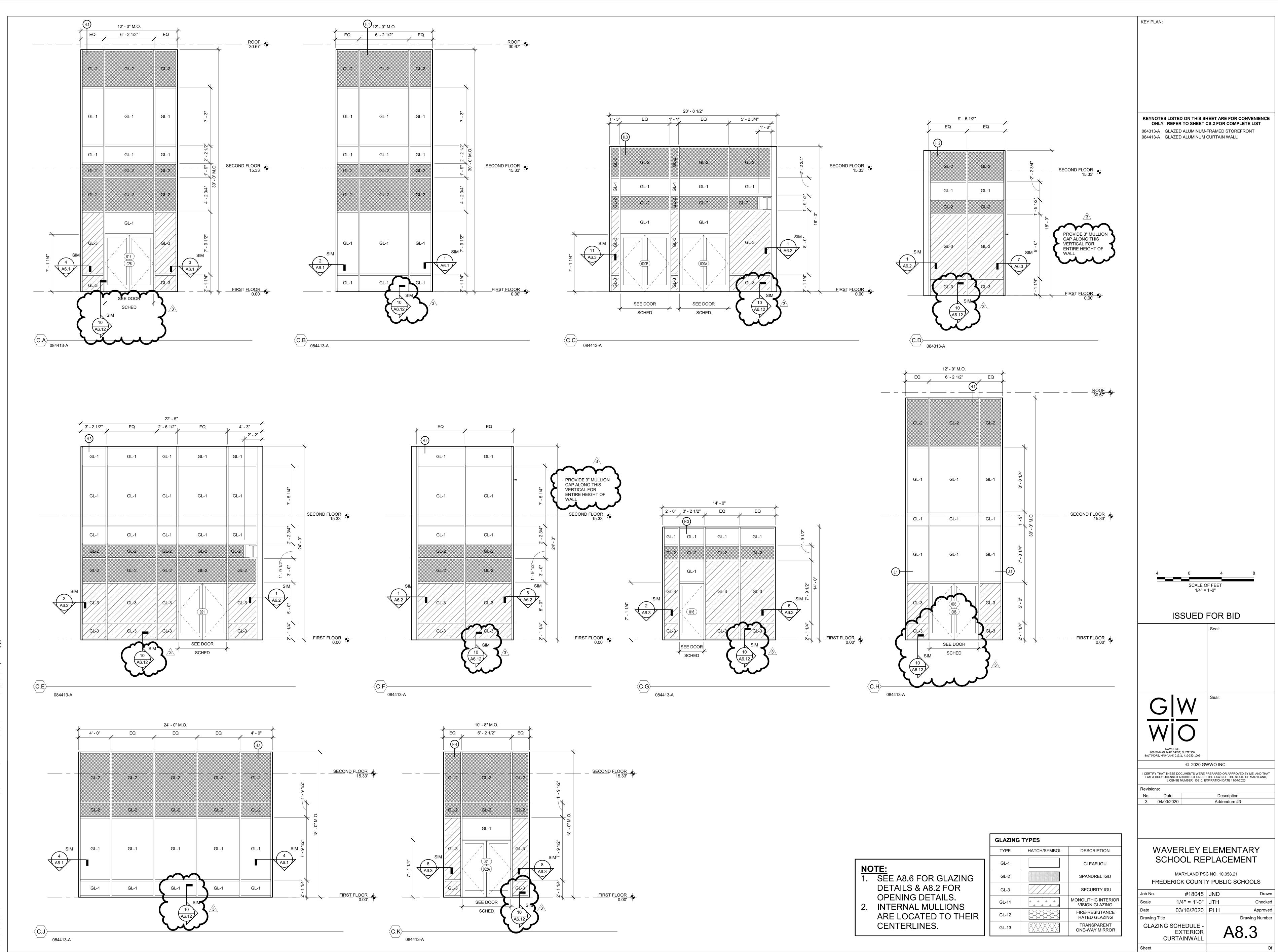
	DOOR SCHEDULE - FIRST FLOOR		DOOR SCHEDULE - FIRST FLOOR
LOCATION DOOR FROM TO TYPE WIDTH HEIGHT MATERIAL FIN	FRAME DETAIL REF. SIDELIGHT TRANSOM TYPE WIDTH HEIGHT MATERIAL FINISH HEAD JAMB RATING	HARDWARE GLAZING ACCESS SMOKE SET TYPE CONTROL CONTROL COMMENTS	Image: No. Image: Location of the image: No.
	Image: state	X1.2 GL-3 SEE NOTE 1 X1.1 GL-3 Image: Content of the set of	F100 B100A F100A 9'-4" 10'-0" FABRIC - - - - 120 MIN -
E112A F 3'-0" 7'-0" INSUL. HM P	F1B HM PTD HC.02 JC.02 F1B HM PTD HC.02 JC.02	X1 GL-3 ■ SEE NOTE 1 X1.5 - ■ ■ X1.5 - ■ ■	F101A F101A F101 F 3'-0" 7'-0" WD - F1A HM PTD H2.02 J2.02 N12 - SEE NOTE 2 F102 F100A F102 G 3'-0" 7'-0" WD - F1A HM PTD H2.02 J2.02 N12 - Image: Comparison of the set of the se
E100B FG 3'-0" 7'-0" AL D101 FGFG 6'-0" 7'-0" AL D101 FGFG 6'-0" 7'-0" AL		X1.7 GL-3 Image: SEE NOTE 1 X1 GL-3 Image: SEE NOTE 1 X1 GL-3 Image: SEE NOTE 1 X1 GL-3 Image: SEE NOTE 1	F103 F103 F104 S100
D103 FF 6' - 0" 7' - 0" INSUL. HM P D100A NN 6' - 0" 7' - 0" INSUL. HM P C102 F 4' - 0" 7' - 0" INSUL. HM P	F1 HM PTD HC.02 JC.02 Image: Constraint of the state	X3 - Image: Constraint of the second	F107 F107 F108 G 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1 GL-11 Image: Constraint of the constra
C106 FF 6' - 0" 7' - 0" INSUL. HM P C100C NN 6' - 0" 7' - 0" INSUL. HM P C107 FF 6' - 0" 7' - 0" INSUL. HM P	Product F2 2' - 2 1/2" HM PTD HC.02 JC.02 Product F1 HM PTD HC.02 JC.02 HM Product F2 2' - 2 1/2" HM PTD HC.02 JC.02 HM Product F2 2' - 2 1/2" HM PTD HC.02 JC.02 HM	X3 Image: Constraint of the second	F110 F100B F110 G 3'-0" 7'-0" WD - F1A HM PTD H2.43 J2.43 N1 GL-11 • • F111 F111 F100B G 3'-0" 7'-0" WD - F1A HM PTD H2.43 J2.43 N1 GL-11 • • • F111 F111 F100B G 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1 GL-11 • • • F112 F100B F112 G 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1 GL-11 •
C108 F 4' - 0" 7' - 0" INSUL. HM P C109 F 3' - 0" 7' - 0" INSUL. HM P C109 OH 10' - 0" 8' - 8" INSUL. MTL	F2 1' - 2" 1' - 4" HM PTD HC.02 JC.02 HC.02 JC.02 HC.02 </td <td>X1.4 Image: Constraint of the second secon</td> <td>F114 F114 F100B G 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1 GL-11 Image: Glassian and the state of the state of</td>	X1.4 Image: Constraint of the second secon	F114 F114 F100B G 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1 GL-11 Image: Glassian and the state of
C100A FG 3' - 0" 7' - 0" AL A100B FGFG 6' - 0" 7' - 0" AL A107 NN 6' - 0" 7' - 0" INSUL. HM P A112 NN 6' - 0" 7' - 0" INSUL. HM P		X1 GL-3 Image: SEE NOTE 1 X1.3 GL-3 Image: SEE NOTE 1	F117A F118A F119 G 3'-0" VD - F11A HM PTD H2.43 J2.43 N112 - SEE NOTE 1 F119 F100A F119 G 3'-0" 7'-0" WD - F1A HM PTD H2.43 J2.43 N112 - SEE NOTE 2 F119 F100A F119 G 3'-0" 7'-0" WD - F1A HM PTD H2.43 J2.43 N11 GL-11
A112 NN 6' - 0" 7' - 0" INSUL. HM P A112 N 3' - 0" 7' - 0" INSUL. HM P B110 FGFG 6' - 0" 7' - 0" AL B112 F 4' - 0" 7' - 0" INSUL. HM P	D F3 1'-2" 2'-0" HM PTD HB.12 JB.12 Image: Comparison of the second	X1.3 GL-3 Image: Constraint of the second s	F119 F100A F119 G 3'-0" 7'-0" WD - F1A HM PTD H2.43 J2.43 N1 GL-11 Image: Comparison of the compar
F108 N 3' - 0" 7' - 0" INSUL. HM P F108 NN 6' - 0" 7' - 0" INSUL. HM P F113 NN 6' - 0" 7' - 0" INSUL. HM P	D F3 1'-2" 2'-0" HM PTD HB.12 JB.12 D F1 2'-0" HM PTD HB.12 JB.12	X1.6 GL-3 X1.3 GL-3 X1.3 GL-3	
F100B FGFG 6' - 0" 7' - 0" AL A100A B100A 9' - 4" 10' - 0" FABRIC	- - - 120 MIN F1A HM PTD H2.03 J2.03	X1 GL-3 Image: SEE NOTE 1 - Image: SEE NOTE 1 N1 GL-11	DOOR SCHEDULE - STAGE LEVEL
A101A A101 F 3' - 0" 7' - 0" WD A100A A102 G 3' - 0" 7' - 0" WD A102 A102A F 3' - 0" 7' - 0" WD	F1A HM PTD H2.02 J2.02 F1A HM PTD H2.03 J2.03 F1A HM PTD H2.02 J2.02	N12 - SEE NOTE 2 N1 GL-11 ■ N12 - SEE NOTE 2	LOCATION EVALUATION DETAIL REF. DETAIL REF. DETAIL REF. LOCATION ACCESS SMOKE OPENING NO. FROM TO TYPE WIDTH HAISH TYPE VIDTH HEIGHT MATERIAL FINISH HEIGHT HEIGHT HEIGHT HEIGHT HEIGHT HEIGHT HEIGHT HEIGHT HEIGHT HE
A105 A103 F 3' - 0" 7' - 0" A103A A103 F 3' - 6" 7' - 0" HM P A104 A105 F 3' - 0" 7' - 0" WD P	F1A HM PTD H2.03 J2.03	7 Image: Constraint of the second seco	C101C C100B C101C F 3'-0" 7'-0" WD - F1B HM PTD H1.05 J1.05 N1.5 - • C101E C101E C100B FF 6'-0" 7'-0" WD - F1 HM PTD H1.05 J1.05 N1.4 - •
	F1A HM PTD H2.03 J2.03	N1 GL-11 Image: Constraint of the second se	C111 C100B C111 G 4'-0" 7'-0" WD - F1B HM PTD H1.02 J1.02 N6.1 GL-11 GL-11 Image: Comparison of the c
A100B A111 G 3' - 0" 7' - 0" WD A112 A100B NN 6' - 0" 7' - 0" WD	F1A HM PTD H2.03 J2.03 F1A HM PTD H2.03 J2.03 F1 HM PTD H1.03 J1.03	N1 GL-11 Image: Constraint of the second se	C112A C112 C111A F 4'-0" 7'-0" WD - F1B HM PTD H1.02 J1.02 N10.3 -
A114 A100B G 3' - 0" 7' - 0" WD	F1A HM PTD H2.03 J2.03	N1 GL-11 Image: Constraint of the second se	
A118 A100A G 3' - 0" 7' - 0" WD A118A A118 F 3' - 0" 7' - 0" WD	F1A HM PTD H2.03 J2.03 F1A HM PTD H2.02 J2.02 F1A HM PTD H2.03 J2.03	N1 GL-11 Image: Control of the second secon	DOOR SCHEDULE - SECOND FLOOR LOCATION DOOR FRAME DETAIL REF. FIRE HARDWARE GLAZING ACCESS SMOKE
A119 A119A F 3'-0" 7'-0" WD E100A B100A GG 6'-0" 7'-0" WD	F1A HM PTD H2.03 J2.03 F1A HM PTD H2.02 J2.02 F1 HM PTD H2.03 J2.03	N1 GL-11 Image: Constraint of the second se	OPENING NO. FROM TO TYPE WIDTH HEIGHT MATERIAL SIDELIGHT WIDTH TRANSOM HEIGHT MATERIAL FINISH HEAD JAMB FIRE RATING HARDWARE SET GLAZING CONTROL ACCESS CONTROL SMOKE CONTROL 027 E201 F 3'-0" 7'-0" INSUL HM PTD FIA FIM HM PTD HD.02 JD.02 3 X6 - SEE NOTE 3
B101 B101A N 3'-0" 7'-0" WD B101 B101B F 3'-0" 7'-0" WD	F1A HM PTD H2.03 J2.03	N1.1 GL-11 Image: GL-11 N14 GL-11 Image: GL-11 N1.2 GL-11 Image: GL-11	027 F 5-0 F 5-0 F 5-0 F 5-0 SEE NOTE 3 028A C201 F 3'-0" 7'-0" INSUL. HM PTD F1B HM PTD HB.13 JB.13 X6 - Image: SEE NOTE 3 028B C201A F 3'-0" 7'-0" INSUL. HM PTD F1B HM PTD HB.13 JB.13 X6 - Image: SEE NOTE 3 028B C201A F 3'-0" 7'-0" INSUL. HM PTD F1B HM PTD HB.13 JB.13 X6 - SEE NOTE 3 029 B200A F 3'-0" 6'-8" INSUL. HM PTD F3 1'-2" 1'-8" HM PTD HC.02 JC.02 X6 GL-3 EE NOTE 3
B101 B101D N 3'-0" 7'-0" WD C100A B102 F 3'-0" 7'-0" WD	F1A HM PTD H2.03 J2.03	N1.1 GL-11 N10.2 - N10.2 -	A200 A200A B200A GG B'-0" T'-0" F5 F6 HM PTD H2.03 J2.03 N1 GL-3 GL-3 <thg< td=""></thg<>
B100A B104 G 3' - 0" 7' - 0" WD B104 B104A F 3' - 0" 7' - 0" WD B105 B100A G 3' - 0" 7' - 0" WD	F1A HM PTD H2.03 J2.03 Image: Comparison of the	N1 GL-11 Image: Constraint of the second se	A201 A203 A204 A203 G 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1 GL-11 Image: Constraint of the const
B100A B107 N 3' - 0" 7' - 0" WD B108 B100A N 3' - 0" 7' - 0" WD	F1A HM PTD H2.03 J2.03	N1.1 GL-11 Image: Constraint of the second	A204B A204B F 3'-0" VD F1A HM PTD H2.02 J2.02 N4 SEE NOTE 2 A205 A206 A206 G 3'-0" VD HA PTD H2.02 J2.02 N4 SEE NOTE 2 A205 A206 A206 A206 G 3'-0" VD F1A O F1A PTD HA PTD H2.02 J2.02 N4 GL-11
B100A B110 FGFG 6' - 0" 7' - 0" AL B100A B111 G 3' - 0" 7' - 0" WD	F1A HM PTD H2.03 J2.03 - - - * * F1A HM PTD H2.03 J2.03	N1 GL-11 Image: Constraint of the second se	A207 A208 A207 G 3'-0" VD - F1A PTD HA PTD H2.03 J2.03 N1 Image: Constraint of the constraint o
B100A G 3' - 0" 7' - 0" WD B113A B113 F 3' - 0" 7' - 0" WD	F1A HM PTD H2.03 J2.03 F1A HM PTD H2.43 J2.43 F1A HM PTD H2.43 J2.43 F1A HM PTD H2.43 J2.43	N10.2 - Image: Constraint of the second sec	A210 A200B A210 G 3'-0" VD - F1A HM PTD H2.03 J2.03 N1 - Image: Constraint of the constrand of the constrand of the constraint of t
C100A B101 G 3' - 0" 7' - 0" WD C100B C100C NN 6' - 0" 7' - 0" WD	F1 HM PTD H2.03 J2.03 - - * * * F1 HM PTD H1.02 J1.02	N17 GL-11 Image: Constraint of the second s	A213 A213 A200B NN 6'-0" 7'-0" WD - F1 HM PTD H1.03 J1.03 N7.2 GL-12 •
C101 E100A GG 6' - 0" 7' - 0" WD C101 E100A GG 6' - 0" 7' - 0" WD C101 E100A GG 6' - 0" 7' - 0" WD	F1 HM PTD H1.03 J1.03 Image: Market	N7.1 GL-12 N7.1 GL-12	A217 A217 A200 F 3'-0" 'VD - F1A HM PTD H2.03 J2.03 N11 - Image: Constraint of the constraint o
C101 C101F FF 6' - 0" 7' - 0" HM P C102 C101 GG 6' - 0" 7' - 0" WD	D F1 HM PTD H1.05 J1.05	N10.1 - SEE NOTE 1 N10.5 - SEE NOTE 1 N6.2 GL-11 SEE NOTE 1 N6.2 GL-11 SEE NOTE 1	A200 A200A A200 G 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1 GL-11 Image: Second s
C102 C101 GG 6' - 0" 7' - 0" WD C102 C101 GG 6' - 0" 7' - 0" WD C102 C101 GG 6' - 0" 7' - 0" WD	- -	N6.2 GL-11 SEE NOTE 1 N6.2 GL-11 SEE NOTE 1 N6.2 GL-11 SEE NOTE 1	B203 B204 B203 G 3'-0" 7'-0" WD - F1A F1D F1D F1D F2.03 J2.03 N1 GL-11 Image: Constraint of the const
C101 C102 OH 4' - 0" 4' - 6" MTL C102 C103 F 3' - 0" 7' - 0" WD C103A C103 F 3' - 0" 7' - 0" WD	F1A HM PTD H2.02 J2.02 F1A HM PTD H2.02 J2.02	N9 - SEE NOTE 5 N4 - SEE NOTE 2	B207 B20A B207 N 3'-0" 7'-0" WD - F1A HM PTD H2.43 J2.43 N1.1 GL-11 Image: Constraint of the const
C102 C104 F 3'-0" 7'-0" WD C102 C105 N 3'-0" 7'-0" WD C100C C106 F 3'-0" 7'-0" HM P	F1A HM PTD H2.02 J2.02 Image: Constraint of the state	N14 - N1.1 GL-11 N10.4 - ■ SEE NOTE 1	B211 B204 N 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1.1 Image: Constraint of the constraint
C100C C107 F 3' - 0" 7' - 0" HM P C108 C100C F 4' - 0" 7' - 0" HM P		N1.1 GL-11 SEE NOTE 1 N10.6 - • SEE NOTE 1 N16 • • •	C201 C201 C201A F 3'-0" F PTD F
C110 C109 F 3'-0" 7'-0" HM P C100C C110 N 3'-0" 7'-0" WD C110A C110 F 3'-0" 7'-0" WD	F1B HM PTD H1.02 J1.02 F1B HM PTD H1.02 J1.02	N10.1 Image: Constraint of the second s	F202 F203 F204 F202 G 3'-0" VD - F1A HM PTD H2.03 J2.03 N1 GL-11 .
C110 C110B F 3' - 0" 7' - 0" WD C113 C100B F 3' - 0" 7' - 0" WD C100A C121 F 3' - 0" 7' - 0" WD C101 D100A NN 6' - 0" 7' - 0" WD	F1B HM PTD H1.02 J1.02 F1A HM PTD H1.02 J1.02 F1A HM PTD H2.03 J2.03 F1 HM PTD H2.43 J2.43	N4 - SEE NOTE 2 N11 - Image: Compare the second se	F205 F207 F207 F207 G 3'-0" VD - F1A HM PTD H2.03 J2.03 N11 Image: Comparison of the comparison
C101 D100A NN 6' - 0" 7' - 0" WD D101 D101A FF 6' - 0" 7' - 0" HM P D101 E100A NN 6' - 0" 7' - 0" WD D101 E100A NN 6' - 0" 7' - 0" WD		N6 - SEE NOTE 1 N2.1 - SEE NOTE 1 N6.5 - ■ N6.6 - ■	F210 F210 F200B G 3'-0" 7'-0" WD - F1 HM PTD H2.03 J2.03 N1 GL-11 Image: Control of the control
D102A D102A F 3' - 0" 7' - 0" WD D102B D102B F 3' - 0" 7' - 0" WD	F1A HM PTD H2.02 J2.02	N3 - SEE NOTE 2 N3 - SEE NOTE 2 N3 - SEE NOTE 1	F212 F212 F200B G 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1 GL-11 Image: Constraint of the constrand of the constraint of the constraint of the constra
D101 D103 I11 0 0 0 7 0 I101 I11 I11 D101 D104 N 3' - 0" 7' - 0" WD D104 D104A F 3' - 0" 7' - 0" WD D100A D105 F 3' - 0" 7' - 0" WD	F1B HM PTD H1.05 J1.05 F1B HM PTD H1.02 J1.02 F1B HM PTD H1.02 J1.02 F1B HM PTD H1.02 J1.02	N2 Image: Constraint of the second seco	F215 F216 F216 F216 F216 F216 F216 N Si - 0" N - 0" WD F1A O HM PTD H2.03 J2.03 O N1 GL-11 O
E100B E100A GG 6' - 0" 7' - 0" WD E101 E100A FGFG 6' - 0" 7' - 0" AL E101 E100A FGFG 6' - 0" 7' - 0" AL	F1 HM PTD H2.03 J2.03 - - * * *	N7 GL-11 Image: Constraint of the second se	F2180 F218A F218A F218A F218A F218B F218B <th< td=""></th<>
E102 E100A G 3' - 0" 7' - 0" WD E103 E102 F 3' - 0" 7' - 0" WD	Image: Provide state of the	N21 GL-11 Image: See NOTE 1 N21.1 GL-11 Image: See NOTE 1 N1.3 Image: See NOTE 1	F220 F200A F220 G 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1 GL-11 Image: Comparison of the compar
E100A E103 N 3' - 0" 7' - 0" WD E103A E103 F 3' - 0" 7' - 0" WD E103 E103B N 3' - 0" 7' - 0" WD E103 E103B N 3' - 0" 7' - 0" WD	F1B HM PTD H1.22 J1.22 F1A HM PTD H2.02 J2.02 F2 1'-2" HM PTD H1.02 J1.02 F1B HM PTD H1.02 J1.02	N1.6 GL-11 N14.1 - N1.1 GL-13	DOOR SCHEDULE - PENTHOUSES
E103 E103C F 3' - 0" 7' - 0" WD E104 E102A N 3' - 0" 7' - 0" WD E102A E105 N 3' - 0" 7' - 0" WD E106 E102A N 3' - 0" 7' - 0" WD	F1B HM PTD H1.02 J1.02 F1A HM PTD H2.02 J2.02	N4 - SEE NOTE 2 N1.1 GL-11 N1.1 GL-11 N1.1 GL-11	Image: Description of the system of the s
E106 E102A N 3' - 0" 7' - 0" WD E102A E107 N 3' - 0" 7' - 0" WD E108 E102A N 3' - 0" 7' - 0" WD E108 E102A N 3' - 0" 7' - 0" WD E109 E102A N 3' - 0" 7' - 0" WD	F1A HM P1D H2.02 J2.02 F1A HM PTD H2.02 J2.02	N1.1 GL-11 N1.1 GL-11 N1.1 GL-11 N1.1 GL-11	NO. FROM TO TYPE WIDTH HEIGHT MATERIAL FINISH HEIGHT
E109 E102A N 3 - 0 7 - 0 WD E110 E102A N 3' - 0" 7' - 0" WD E102A E111 F 3' - 0" 7' - 0" WD E102A E111 F 3' - 0" 7' - 0" WD E112 E112 FGFG 6' - 0" 7' - 0" WD	F1A HM F1D H2.02 J2.02 F1A HM PTD H2.02 J2.02 F1A HM PTD H2.02 J2.02 F1A HM PTD H2.02 J2.02	N1 GL-11 N4 - N8.3 -	031 F301 F 3'-0" 7'-0" INSUL. HM PTD F1A 1'-2" 4" HM PTD HD.02 JD.02 X6 - SEE NOTE 3 A301 A301A A301 3'-0" 7'-0" Insul. HM PTD F1A 1'-2" 4" HM PTD HD.02 JD.02 X6 - Image: SEE NOTE 3 A301 A301A A301 3'-0" 7'-0" Image: SEE NOTE 3
E112 E112 FGFG 0 = 0 7 = 0 E112 E102A N 3' = 0" 7' = 0" WD E112 E113 N 3' = 0" 7' = 0" WD E114A E113 N 3' = 0" 7' = 0" WD	F1B HM PTD H1.22x J1.22x F1A HM PTD H2.03 J2.03 F1A HM PTD H2.02 J2.02	N0.5 GL-11 Image: Constraint of the second	
E113 E114B N 3' - 0" 7' - 0" WD E113 E114C F 3' - 0" 7' - 0" WD E114 E112A F 3' - 0" 7' - 0" WD	F1A HM PTD H2.02 J2.02	N1.1 GL-11 N14 - N4 - SEE NOTE 2	
E112A E115 F 3' - 0" 7' - 0" WD E112A E116 F 3' - 0" 7' - 0" E112A E118 G 3' - 0" 7' - 0" WD	F1A HM PTD H2.02 J2.02 Image: Comparison of the	N4 - Image: SEE NOTE 2 N11.1 Image: SEE NOTE 2 Image: SEE NOTE 2 N1 GL-11 Image: SEE NOTE 2	
E118 E117A F 3' - 0" 7' - 0" WD E118 E112A G 3' - 0" 7' - 0" WD E119 E120 N 3' - 0" 7' - 0" WD	F1A HM PTD H2.02 J2.02 Image: Constraint of the	N12 - SEE NOTE 2 N1.1 GL-11 ■ SEE NOTE 1 N1 GL-11 ■	DOOR SCHEDULE - ADD/ALTERNATE LOCATION DOOR FRAME DETAIL REF. Image: Content of the second s
E100B E122 G 3'-0" 7'-0" WD	F1A HM PTD H2.03 J2.03 F1A HM PTD H2.02 J2.02 - - * *	N1.1 GL-11 Image: Constraint of the second	OPENING NO. FROM TO TYPE WIDTH HEIGHT MATERIAL FINISH TYPE MATERIAL FINISH TRANSOM HEIGHT MATERIAL FINISH HEAD JAMB FIRE RATING HARDWARE SET GLAZING CONTROL ACCESS CONTROL SMOKE CONTROL
E122B E122 N 3' - 0" 7' - 0" WD E123 E100B G 3' - 0" 7' - 0" WD	F1A HM PTD H2.03 J2.03 F1A HM PTD H2.03 J2.03 - - - * *	N14 - N14.1 - N1 GL-11 ■ SEE NOTE 1	002A E100C E100C E112A FGFG 6' - 0" 7' - 0" AL - - - * * X1 GL-3 Image: Constraint of the state of t
E120 E120A NN 6' - 0" 7' - 0" WD E124 E100A N 3' - 0" 7' - 0" WD	F1A HM PTD H2.03 J2.03 F1 HM PTD H2.03 J2.03 F1A HM PTD H2.03 J2.03 F1A HM PTD H2.03 J2.03	N14 - Image: Constraint of the state of	E132 E100C E132 G 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N1 GL-11 Image: Constraint of the state of
	F1A HM PTD H2.03 J2.03 F1A HM PTD H2.03 J2.03	N4 - SEE NOTE 2 N1 GL-11 ■	E135 E135 E100C F 3'-0" 7'-0" WD - F1A HM PTD H2.03 J2.03 N13 GL-13 Image: Constraint of the const

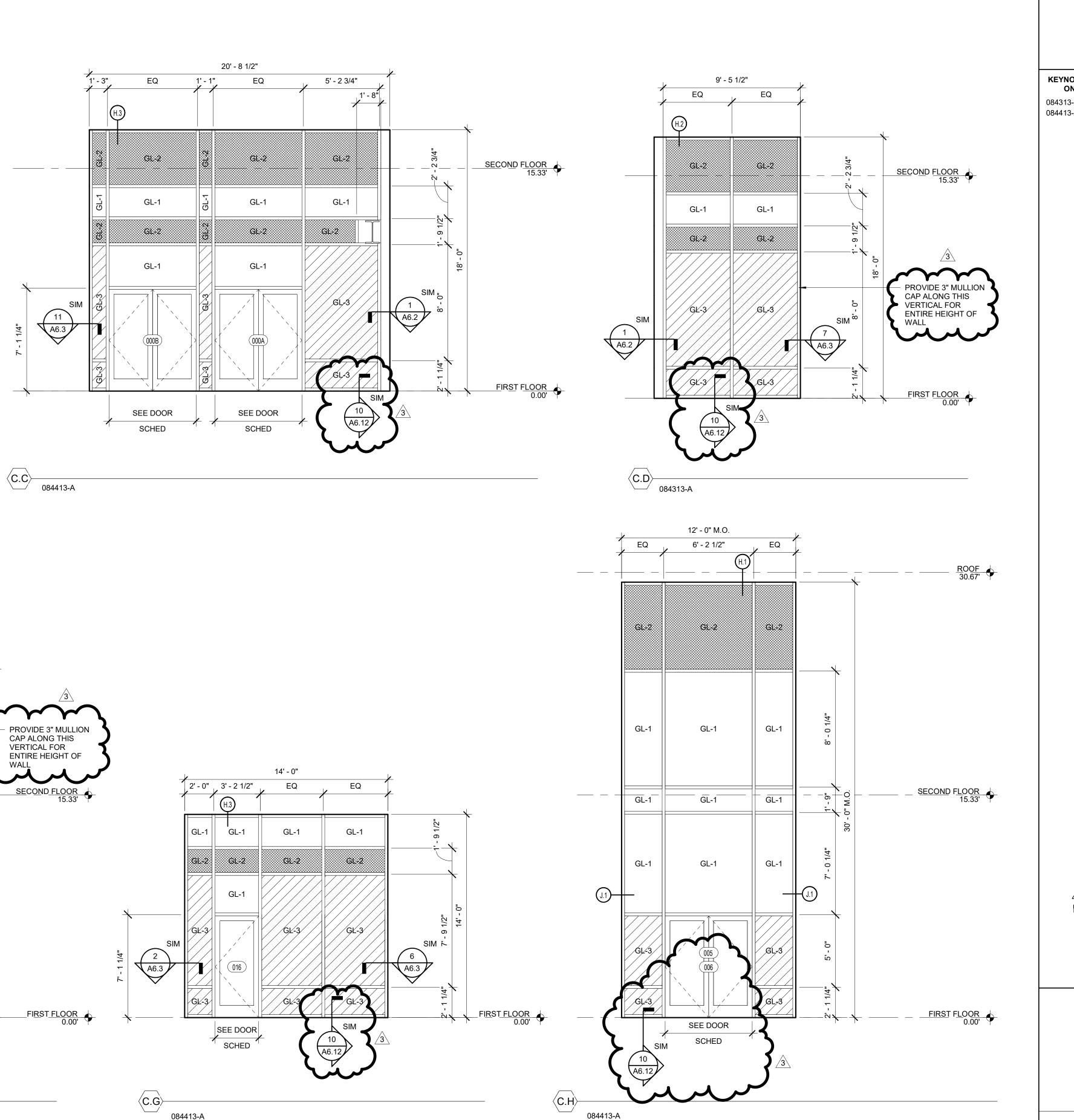
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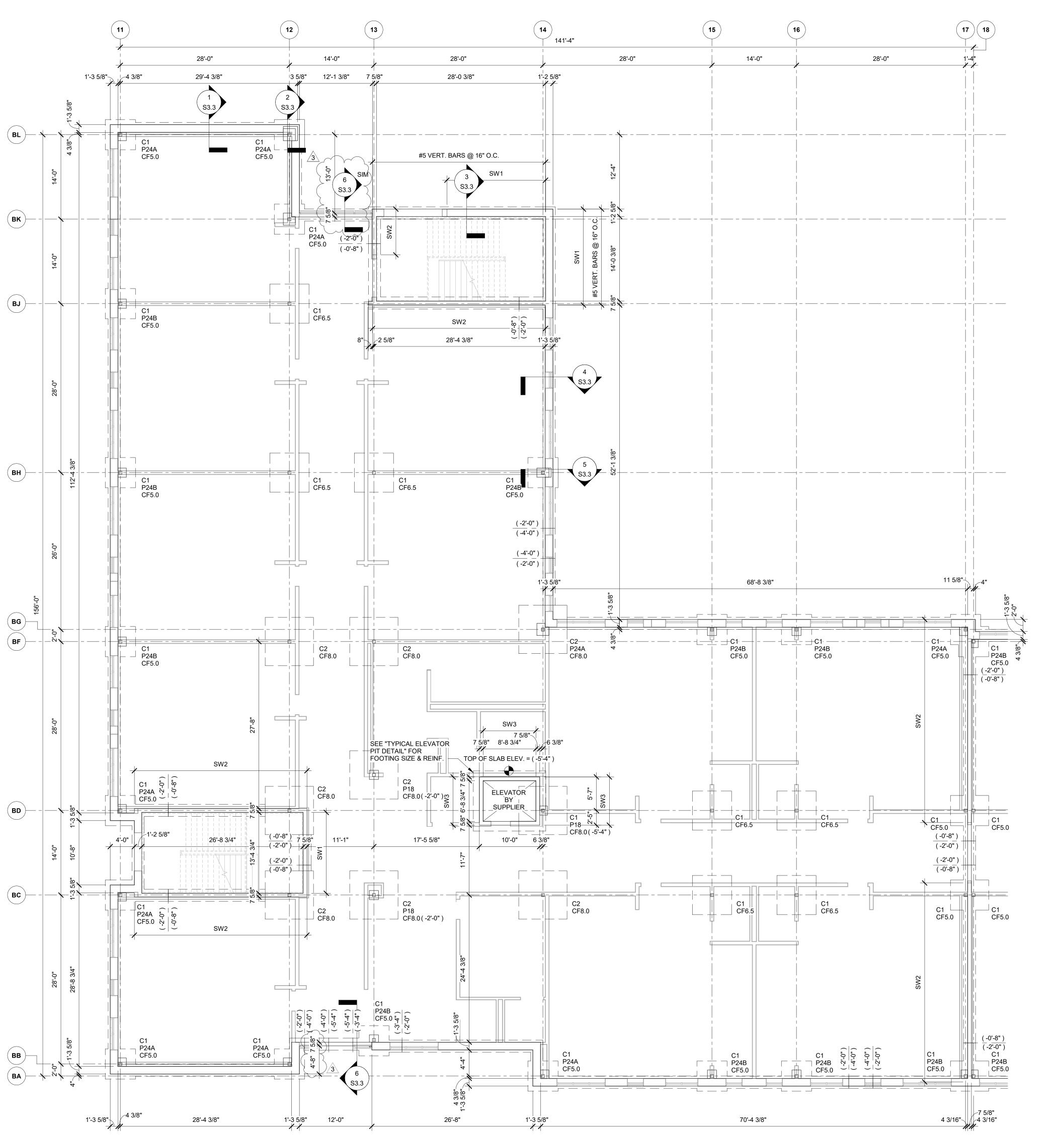








		GLAZING TYPES			
		TYPE	HATCH/SYMBOL	DESCRIPTION	
	DTE:	GL-1		CLEAR IGU	
1.	SEE A8.6 FOR GLAZING	GL-2		SPANDREL IGU	
	DETAILS & A8.2 FOR	GL-3		SECURITY IGU	
OPENING DETAILS. 2. INTERNAL MULLIONS ARE LOCATED TO THEIR	GL-11	+ + + + + + + + + + + + + + + + + + + +	MONOLITHIC INTER VISION GLAZING		
	GL-12		FIRE-RESISTANC RATED GLAZINC		
	CENTERLINES.	GL-13		TRANSPARENT ONE-WAY MIRRO	



FOUNDATION PLAN - AREA A 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

- TOP OF FIRST FLOOR SLAB ELEVATION IS 410.00' (0'-0"), U.N.O. ALL ELEVATIONS NOTED THUS (-X'-X") DESIGNATE TOP OF FOOTING OR PIER ELEVATIONS AND ARE WITH
- RESPECT TO THE FIRST FLOOR TOP OF SLAB ELEVATION (0'-0"). TOP OF INTERIOR FOOTING ELEVATION IS (-0'-8") BELOW FIRST FLOOR TOP OF SLAB ELEVATION, U.N.O. TOP OF EXTERIOR FOOTING ELEVATION IS (-2'-0") BELOW FIRST FLOOR TOP OF SLAB ELEVATION, U.N.O.
- TOP OF PIER ELEVATION IS (-0'-8") BELOW TOP OF GRADE ELEVATION, U.N.O. ALL COLUMNS THAT EXTEND 1'-0" OR MORE BELOW TOP OF SLAB OR GRADE SHALL BE COATED WITH
- BITUMINOUS PAINT. ALL WALL FOOTINGS SHALL BE WF2.0, U.N.O. ALL INTERIOR NON-LOAD BEARING MASONRY WALLS MAY
- BEAR ON THICKENED SLAB, U.N.O. SEE "TYPICAL THICKENED SLAB AT NON-LOAD BEARING INTERIOR MASONRY WALL DETAIL" FOR SIZE AND REINFORCING.
- ALL COLUMNS SHALL CENTER ON FOOTINGS AND PIERS, U.N.O. ALL WALLS SHALL CENTER ON WALL 8. FOUNDATIONS, U.N.O. 9.
- ALL INTERIOR FLOOR SLABS SHALL BE 4" THK. NON-AIR ENTRAINED CONCRETE W/ 6X6 W2.1XW2.1 W.W.R. ON 6" THK. COMPACTED AASHTO NO. 57 CRUSHED STONE, U.N.O. PROVIDE SAWCUT CONTROL JOINTS AS INDICATED IN THE CAST-IN-PLACE CONCRETE CONSTRUCTION SECTION OF THE GENERAL SPECIFICATIONS. SUBMIT A CONTROL JOINT LOCATION PLAN TO THE ENGINEER FOR REVIEW & APPROVAL. ALL EXTERIOR CONCRETE SLABS SHALL BE 5" THK. AIR ENTRAINED CONCRETE W/ 6X6 W2.9XW2.9 W.W.R. 10
- ON 6" THK. COMPACTED AASHTO NO. 57 CRUSHED STONE, U.N.O. ALL EXTERIOR SLABS SHALL BE TURNED DOWN AROUND PERIMETER AND EXTEND TO (-2'-6") BELOW FINISHED GRADE. SEE TYPICAL SLAB
- TURNDOWN DETAIL FOR MORE INFO. 11. CONTRACTOR SHALL VERIFY WALL LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO FOUNDATION LAYOUT. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND
- ENGINEER. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN. 12 SEE ARCHITECTURAL DRAWINGS FOR ALL NECESSARY EMBEDDED ITEMS, RAMPS, STAIRS, LANDINGS, AND 13
- FINISH DETAILS. CONTRACTOR SHALL COORDINATE WITH PLUMBING DRAWINGS FOR ANY CONFLICTS BETWEEN 14 FOUNDATIONS AND NEW OR EXISTING PIPING. STEP FOOTINGS DOWN AS REQUIRED SO THAT PIPES DO NOT PENETRATE FOOTINGS AND SO THAT BOTTOM OF FOOTINGS ARE ABOVE PIPING A MINIMUM DISTANCE EQUAL TO THE PIPE DIAMETER.

	COLUMN SCHEDULE					
	MARK	TYPE	BASE PLATE (N X B X THK.)	ANCHOR BOLTS		
	C1	HSS6X6X5/16	12" X 12" X 3/4"	(4) 3/4" Ø F1554 ANCHOR BOLTS		
	C2	HSS6X6X1/2	12" X 12" X 3/4"	(4) 3/4" Ø F1554 ANCHOR BOLTS		
~	C3	HSS8X8X1/2	14" X 14" X 3/4"	(4) 3/4" Ø F1554 ANCHOR BOLTS		
∕3∖	$\langle \tilde{C}3A \rangle$	HSS8X8X1/2 A	16" X 16" X 1"	(8) 1 1/8" Ø F1554 GR. 55 ANCHOR BOLTS		
	C4	HSS10X10X1/2	16" X 16" X 3/4"	(4) 3/4" Ø F1554 ANCHOR BOLTS		

NOTES: 1. WHERE COLUMNS ARE WITHIN MASONRY WALLS, PROVIDE 3/4" Ø X 0'-4" LONG SHEAR STUDS @ 16" O.C.

	PIER SCHEDULE				
MARK	SIZE	REINFORCING			
P18	18" X 18" X HEIGHT VARIES	(8) #6 VERT. BARS W/ #3 TIES @ 12" O.C.			
P20	20" X 20" X HEIGHT VARIES	(12) #6 VERT. BARS W/ #3 TIES @ 12" O.C.			
P24A	24" X 24" X HEIGHT VARIES	(12) #7 VERT. BARS W/ #3 TIES @ 12" O.C.			
P24B	24" X 18' X HEIGHT VARIES	(8) #7 VERT. BARS W/ #3 TIES @ 12" O.C.			

	COLUMN FOOTING SCHEDULE										
		DIMENSIONS			REINFORCING						
					LONGITUDINAL TRANSVERSE						
	MARK	WIDTH	LENGTH	DEPTH	QUANTITY	SIZE	QUANTITY	SIZE	REMARKS		
	CF4.0	4' - 0"	4' - 0"	1' - 0"	5	5	5	5	BOT. REINF.		
	CF5.0	5' - 0"	5' - 0"	1' - 0"	6	5	6	5	BOT. REINF.		
	CF5.5	5' - 6"	5' - 6"	1' - 4"	6	6	6	6	BOT. REINF.		
~	CF6.5	6' - 6"	6' - 6"	1' - 6"	7	6	7	6	BOT. REINF.		
/3	(CF6.5A)	6' - 6"	6' - 6"	1' - 6"	7	6	7	5	TOP & BOT. REINF.		
	CF8.0	8' - 0"	8' - 0"	1' - 8"	9	6	9	6	BOT. REINF.		
	CF10.0	10' - 0"	10' - 0"	2' - 0"	12	6	12	6	BOT. REINF.		

WALL FOOTING SCHEDULE

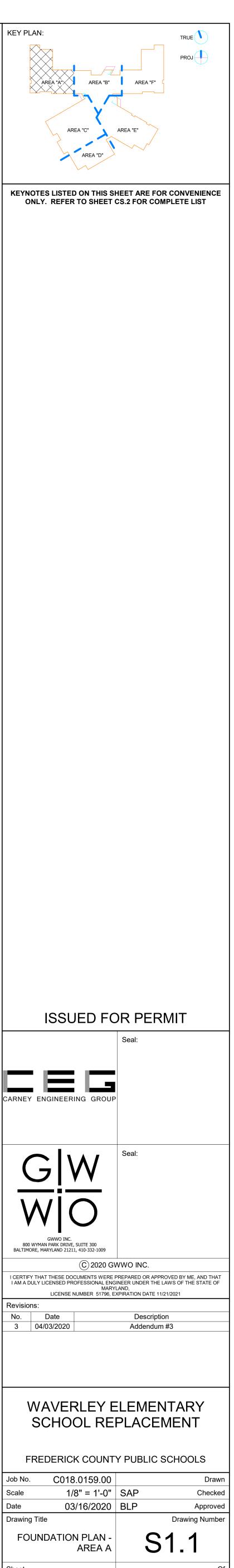
	DIMEN	ISIONS	REINFORCING						
			LONGITUDINAL TRANSVERSE						
MARK	WIDTH	DEPTH	QUANTITY	SIZE	SIZE	SPACING	NOTES		
WF2.0	2'-0"	1'-0"	3	5	3	4'-0"	BOT. REINF.		
WF3.0	3'-0"	1'-0"	4	5	4	4'-0"	BOT. REINF.		

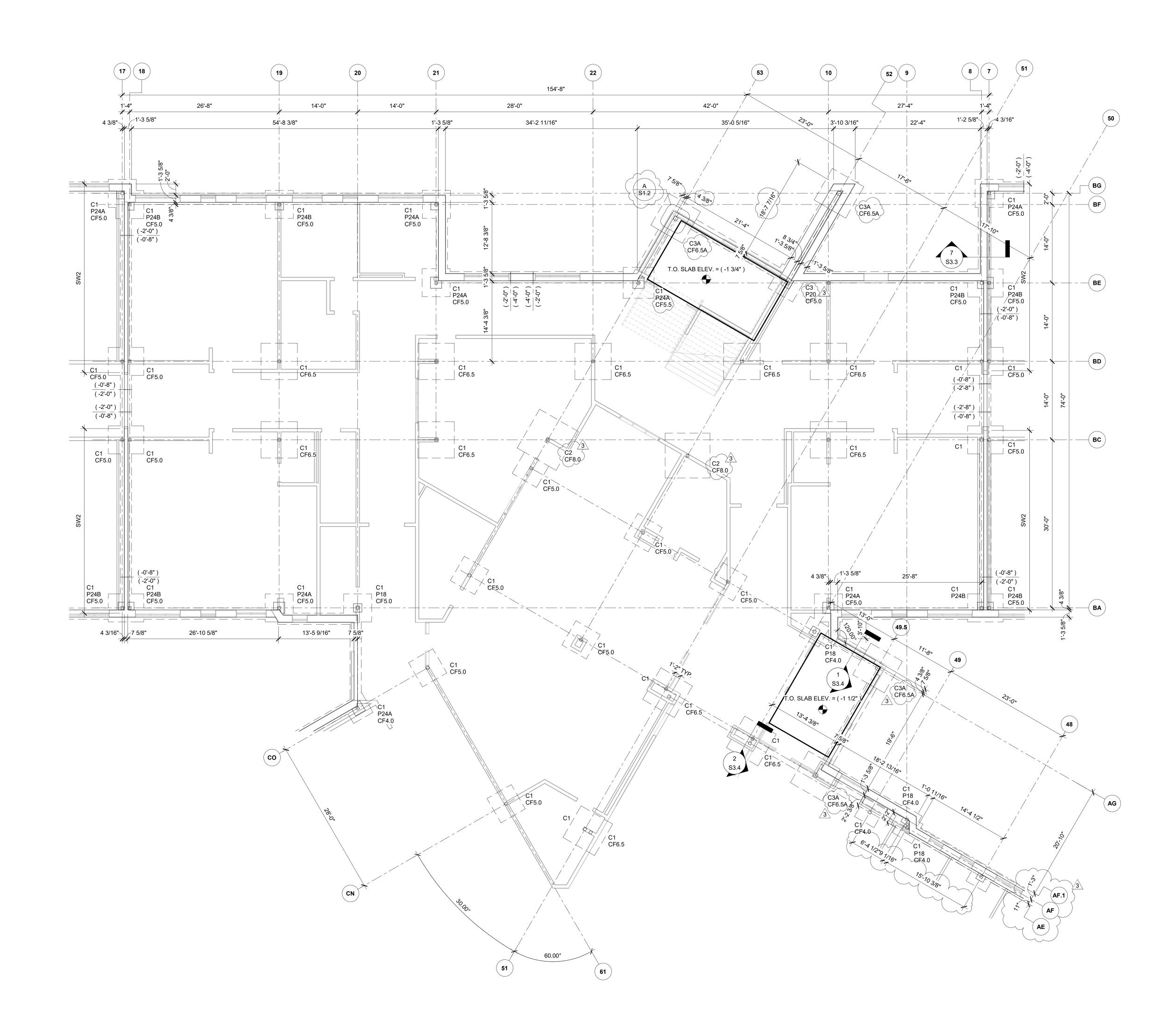


Revisions:

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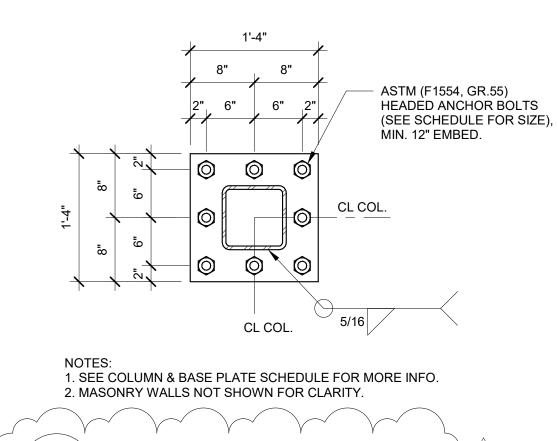


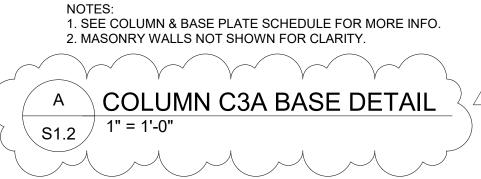
FOUNDATION PLAN - AREA B 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

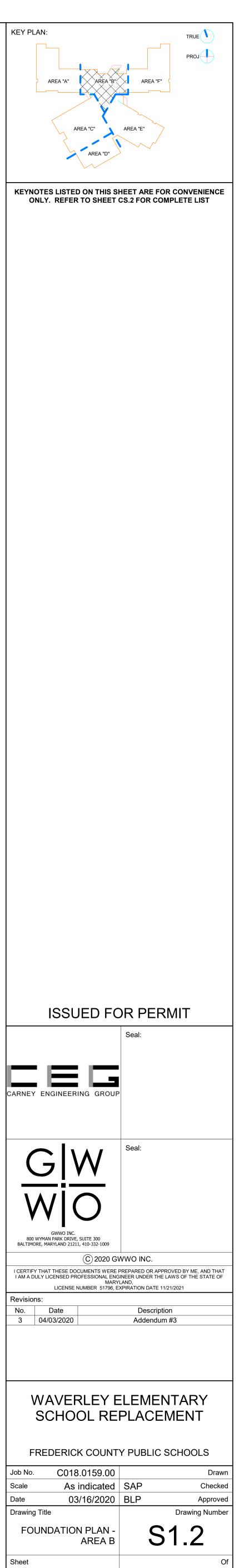
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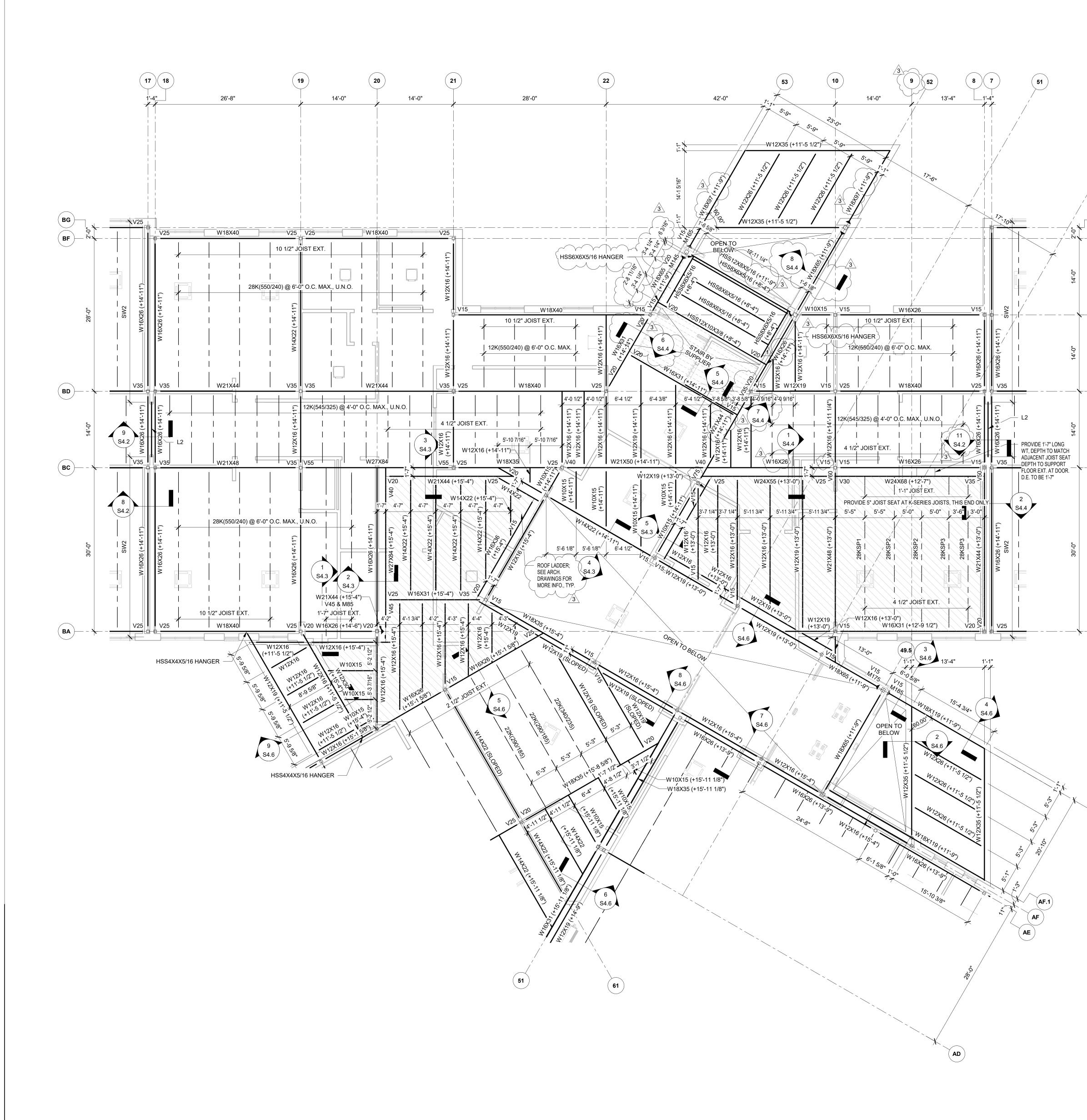
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- TOP OF PIER ELEVATION IS (-0'-8") BELOW TOP OF GRADE ELEVATION, U.N.O. ALL COLUMNS THAT EXTEND 1'-0" OR MORE BELOW TOP OF SLAB OR GRADE SHALL BE COATED WITH
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- BEAR ON THICKENED SLAB, U.N.O. SEE "TYPICAL THICKENED SLAB AT NON-LOAD BEARING INTERIOR MASONRY WALL DETAIL" FOR SIZE AND REINFORCING.
- ALL COLUMNS SHALL CENTER ON FOOTINGS AND PIERS, U.N.O. ALL WALLS SHALL CENTER ON WALL 8. FOUNDATIONS, U.N.O. ALL INTERIOR FLOOR SLABS SHALL BE 4" THK. NON-AIR ENTRAINED CONCRETE W/ 6X6 W2.1XW2.1 W.W.R. 9. ON 6" THK. COMPACTED AASHTO NO. 57 CRUSHED STONE, U.N.O. PROVIDE SAWCUT CONTROL JOINTS AS INDICATED IN THE CAST-IN-PLACE CONCRETE CONSTRUCTION SECTION OF THE GENERAL SPECIFICATIONS. SUBMIT A CONTROL JOINT LOCATION PLAN TO THE ENGINEER FOR REVIEW & APPROVAL.
- 10. ALL EXTERIOR CONCRETE SLABS SHALL BE 5" THK. AIR ENTRAINED CONCRETE W/ 6X6 W2.9XW2.9 W.W.R. ON 6" THK. COMPACTED AASHTO NO. 57 CRUSHED STONE, U.N.O. ALL EXTERIOR SLABS SHALL BE TURNED DOWN AROUND PERIMETER AND EXTEND TO (-2'-6") BELOW FINISHED GRADE. SEE TYPICAL SLAB
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- ENGINEER. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.
- SEE ARCHITECTURAL DRAWINGS FOR ALL NECESSARY EMBEDDED ITEMS, RAMPS, STAIRS, LANDINGS, AND 13 FINISH DETAILS. CONTRACTOR SHALL COORDINATE WITH PLUMBING DRAWINGS FOR ANY CONFLICTS BETWEEN 14. FOUNDATIONS AND NEW OR EXISTING PIPING. STEP FOOTINGS DOWN AS REQUIRED SO THAT PIPES DO NOT PENETRATE FOOTINGS AND SO THAT BOTTOM OF FOOTINGS ARE ABOVE PIPING A MINIMUM DISTANCE EQUAL TO THE PIPE DIAMETER.

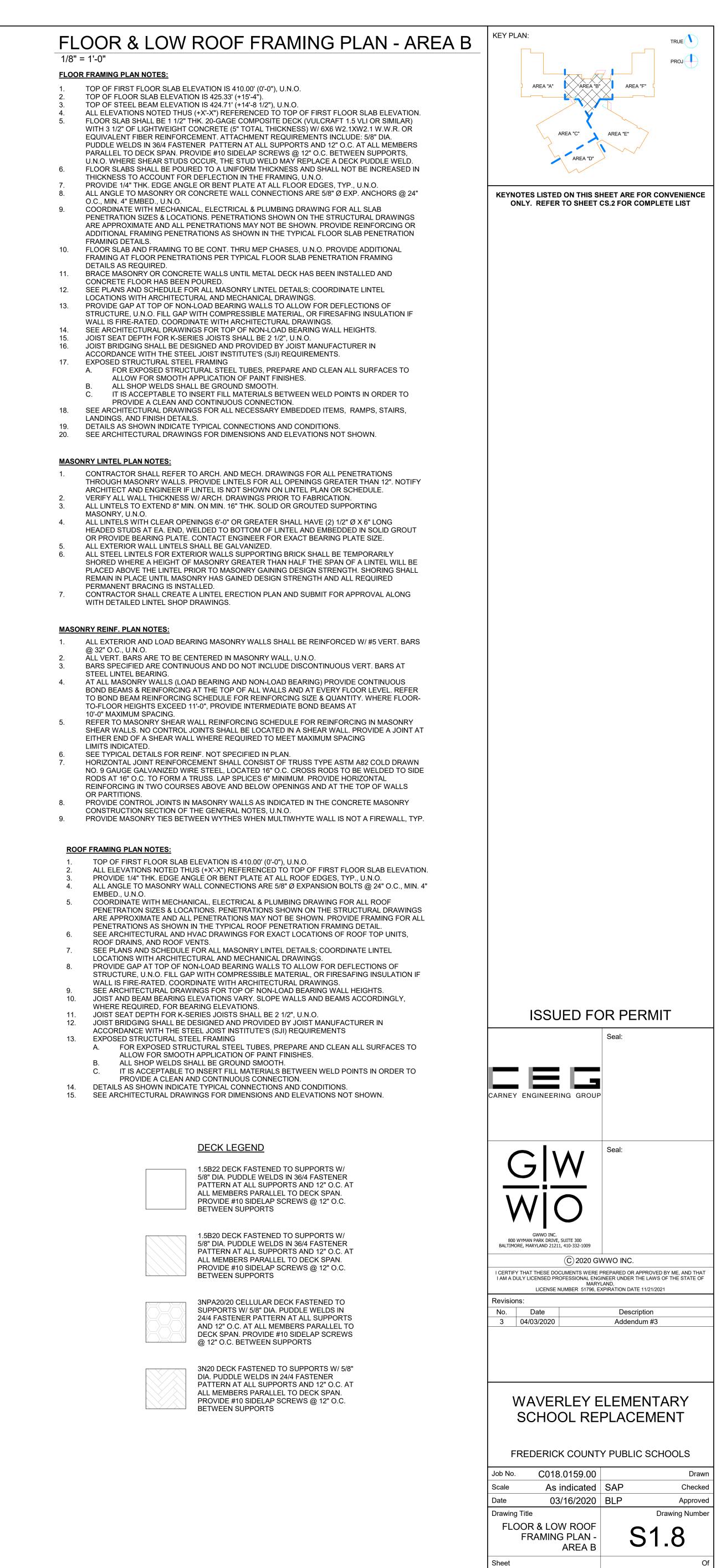




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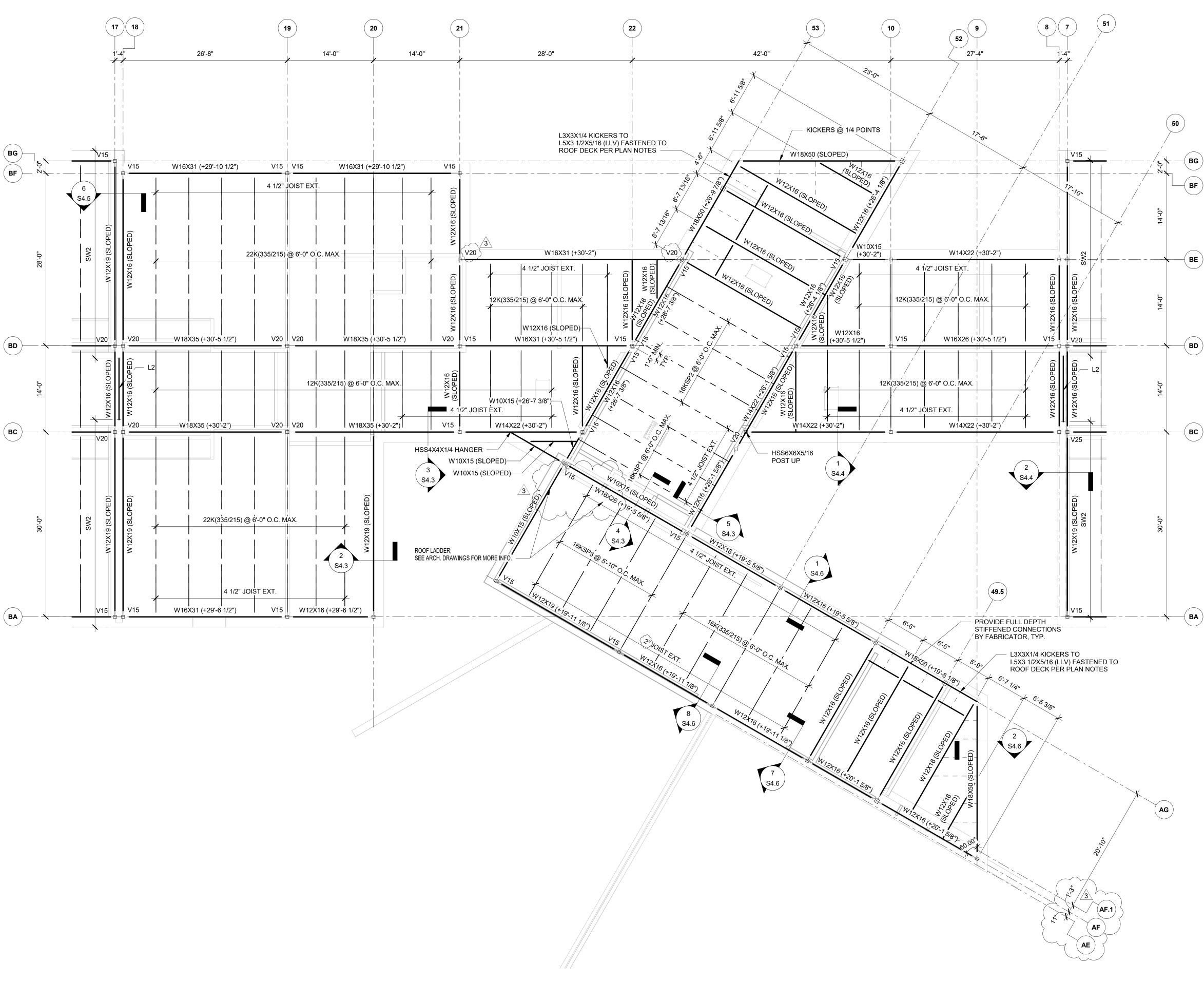
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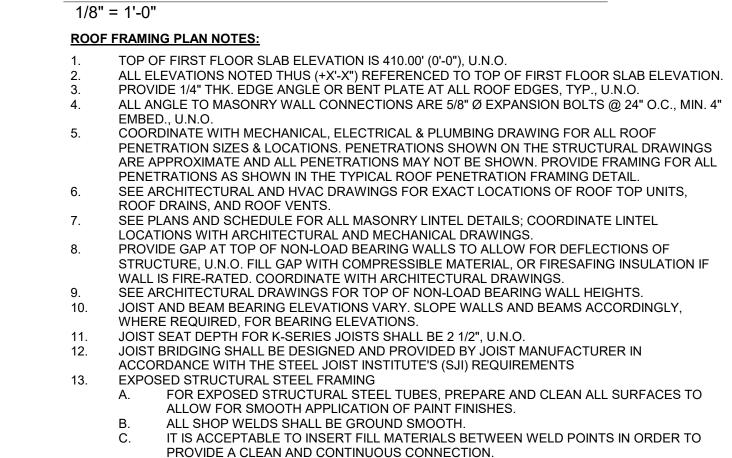
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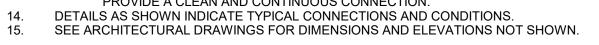
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ROOF FRAMING PLAN - AREA B



MASONRY LINTEL PLAN NOTES:

- CONTRACTOR SHALL REFER TO ARCH. AND MECH. DRAWINGS FOR ALL PENETRATIONS THROUGH MASONRY WALLS. PROVIDE LINTELS FOR ALL OPENINGS GREATER THAN 12". NOTIFY ARCHITECT AND ENGINEER IF LINTEL IS NOT SHOWN ON LINTEL PLAN OR SCHEDULE. VERIFY ALL WALL THICKNESS W/ ARCH. DRAWINGS PRIOR TO FABRICATION.
- ALL LINTELS TO EXTEND 8" MIN. ON MIN. 16" THK. SOLID OR GROUTED SUPPORTING MASONRY, U.N.O. ALL LINTELS WITH CLEAR OPENINGS 6'-0" OR GREATER SHALL HAVE (2) 1/2" Ø X 6" LONG 4.
- HEADED STUDS AT EA. END, WELDED TO BOTTOM OF LINTEL AND EMBEDDED IN SOLID GROUT OR PROVIDE BEARING PLATE. CONTACT ENGINEER FOR EXACT BEARING PLATE SIZE. ALL EXTERIOR WALL LINTELS SHALL BE GALVANIZED. ALL STEEL LINTELS FOR EXTERIOR WALLS SUPPORTING BRICK SHALL BE TEMPORARILY
- SHORED WHERE A HEIGHT OF MASONRY GREATER THAN HALF THE SPAN OF A LINTEL WILL BE PLACED ABOVE THE LINTEL PRIOR TO MASONRY GAINING DESIGN STRENGTH. SHORING SHALL REMAIN IN PLACE UNTIL MASONRY HAS GAINED DESIGN STRENGTH AND ALL REQUIRED PERMANENT BRACING IS INSTALLED.
- 7. CONTRACTOR SHALL CREATE A LINTEL ERECTION PLAN AND SUBMIT FOR APPROVAL ALONG WITH DETAILED LINTEL SHOP DRAWINGS.

MASONRY REINF. PLAN NOTES:

FIREWALL, TYP.

- BF

BD

-(вс)

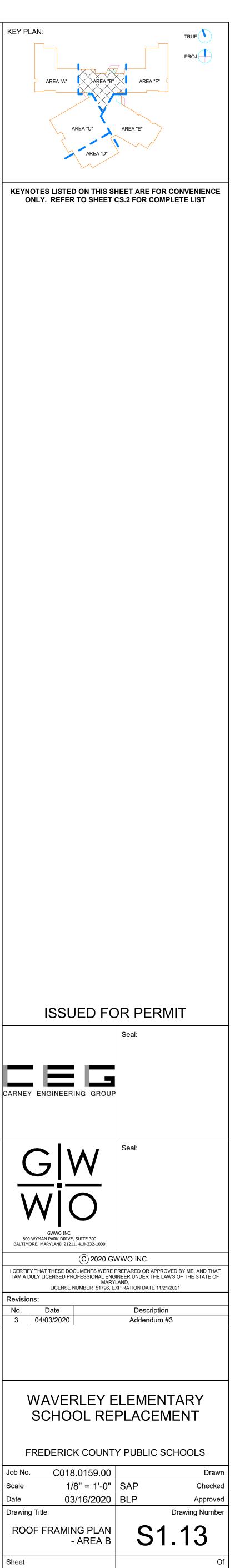
- ALL EXTERIOR AND LOAD BEARING MASONRY WALLS SHALL BE REINFORCED W/ #5 VERT. BARS 1 @ 32" O.C., U.N.O. ALL VERT. BARS ARE TO BE CENTERED IN MASONRY WALL, U.N.O.
- BARS SPECIFIED ARE CONTINUOUS AND DO NOT INCLUDE DISCONTINUOUS VERT. BARS AT STEEL LINTEL BEARING. AT ALL MASONRY WALLS (LOAD BEARING AND NON-LOAD BEARING) PROVIDE CONTINUOUS BOND BEAMS & REINFORCING AT THE TOP OF ALL WALLS AND AT EVERY FLOOR LEVEL. REFER TO BOND BEAM REINFORCING SCHEDULE FOR REINFORCING SIZE & QUANTITY. WHERE FLOOR-
- TO-FLOOR HEIGHTS EXCEED 11'-0", PROVIDE INTERMEDIATE BOND BEAMS AT 10'-0" MAXIMUM SPACING. REFER TO MASONRY SHEAR WALL REINFORCING SCHEDULE FOR REINFORCING IN MASONRY SHEAR WALLS. NO CONTROL JOINTS SHALL BE LOCATED IN A SHEAR WALL. PROVIDE A JOINT AT EITHER END OF A SHEAR WALL WHERE REQUIRED TO MEET MAXIMUM SPACING LIMITS INDICATED.
- SEE TYPICAL DETAILS FOR REINF. NOT SPECIFIED IN PLAN. HORIZONTAL JOINT REINFORCEMENT SHALL CONSIST OF TRUSS TYPE ASTM A82 COLD DRAWN NO. 9 GAUGE GALVANIZED WIRE STEEL, LOCATED 16" O.C. CROSS RODS TO BE WELDED TO SIDE RODS AT 16" O.C. TO FORM A TRUSS. LAP SPLICES 6" MINIMUM. PROVIDE HORIZONTAL REINFORCING IN TWO COURSES ABOVE AND BELOW OPENINGS AND AT THE TOP OF WALLS
- OR PARTITIONS. PROVIDE CONTROL JOINTS IN MASONRY WALLS AS INDICATED IN THE CONCRETE MASONRY CONSTRUCTION SECTION OF THE GENERAL NOTES, U.N.O. PROVIDE MASONRY TIES BETWEEN WYTHES WHEN MULTIWHYTE WALL IS NOT A

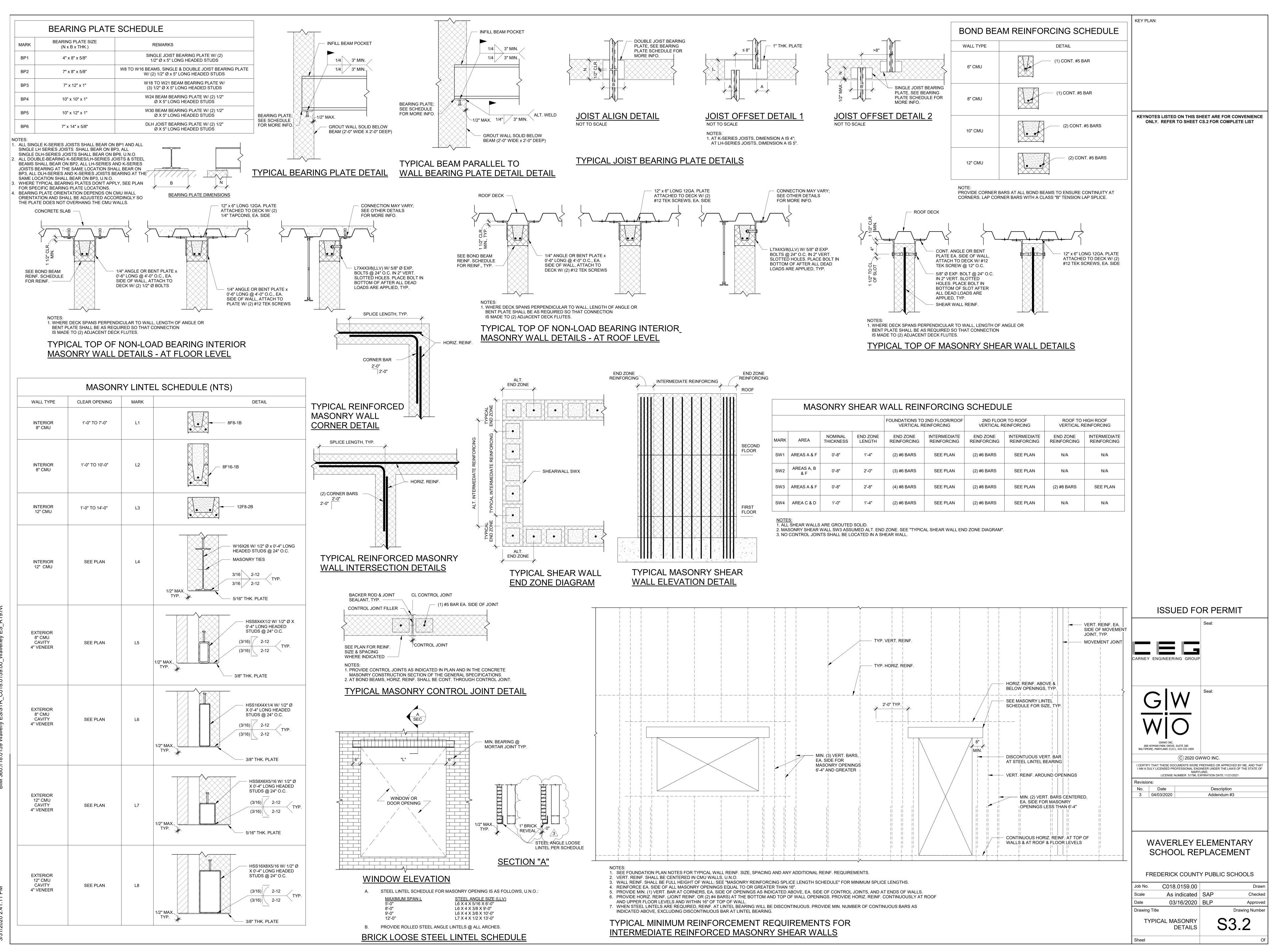
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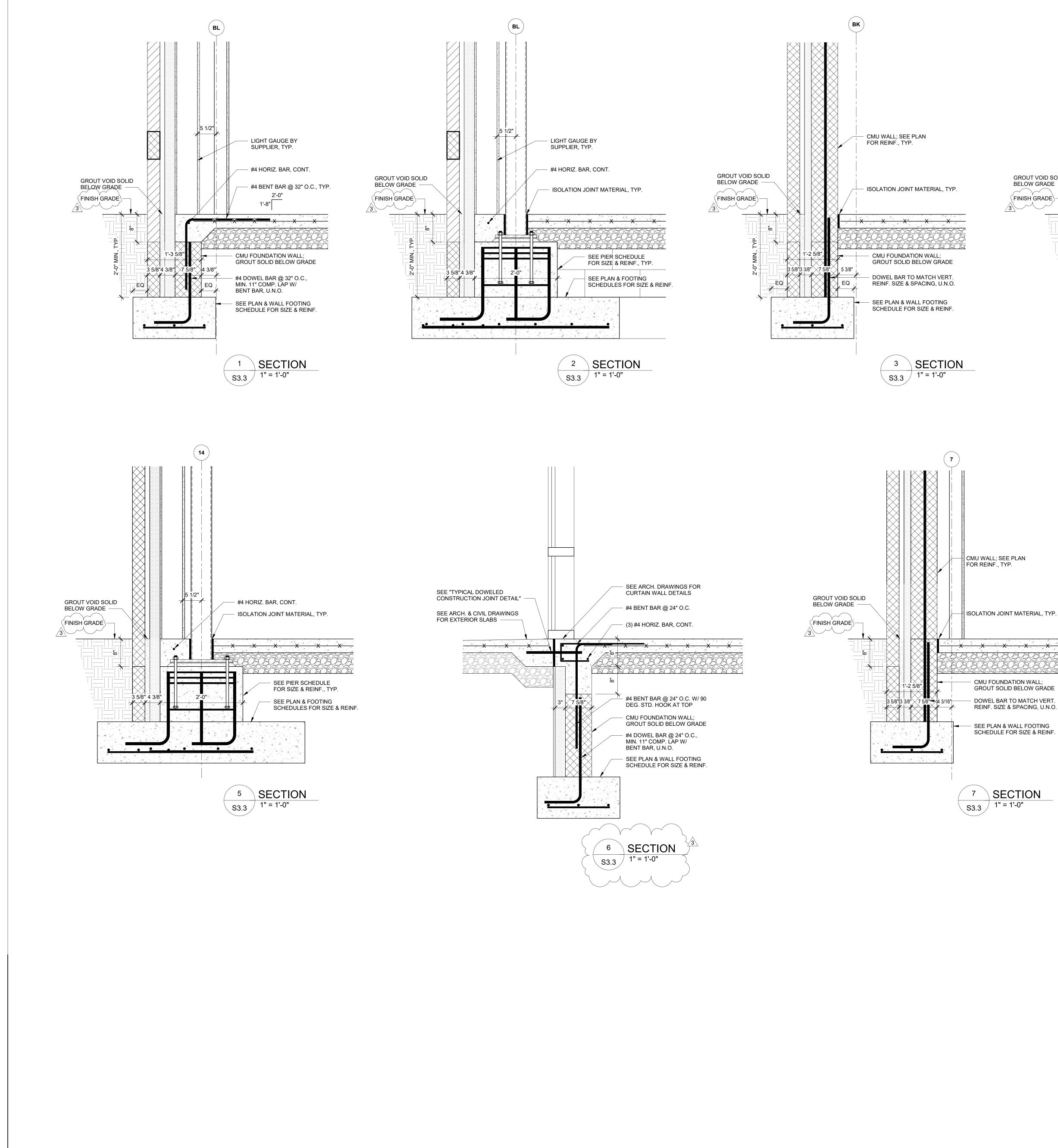
Scale

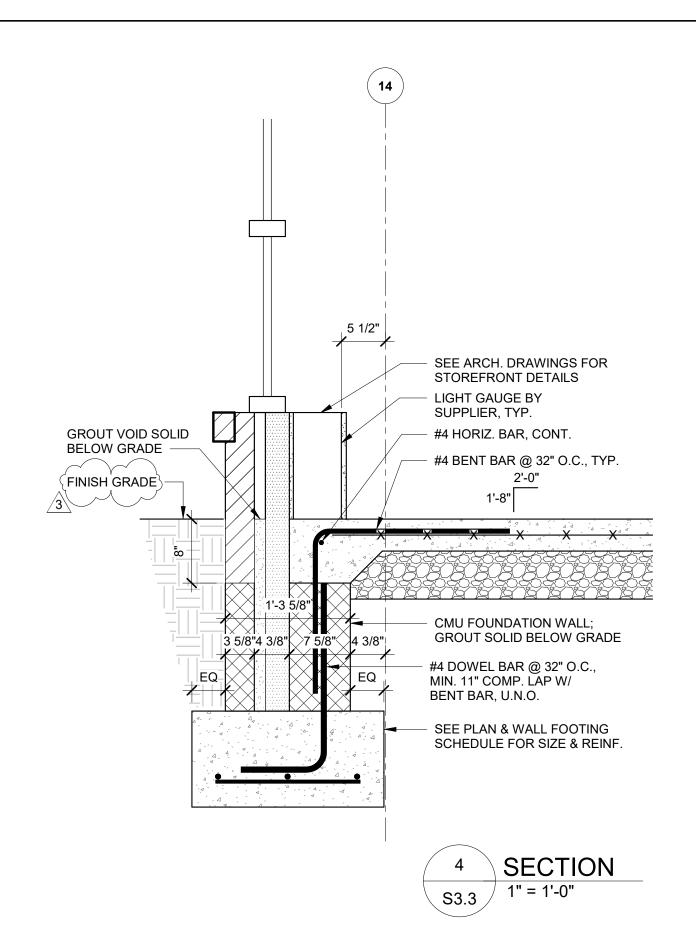
Date Drawing Title











CMU WALL; SEE PLAN

ISOLATION JOINT MATERIAL, TYP.

 $\begin{array}{c} \\ \end{array}$

 CMU FOUNDATION WALL; GROUT SOLID BELOW GRADE - DOWEL BAR TO MATCH VERT.

SEE PLAN & WALL FOOTING SCHEDULE FOR SIZE & REINF.

7 SECTION S3.3 1" = 1'-0"

 \frown J W

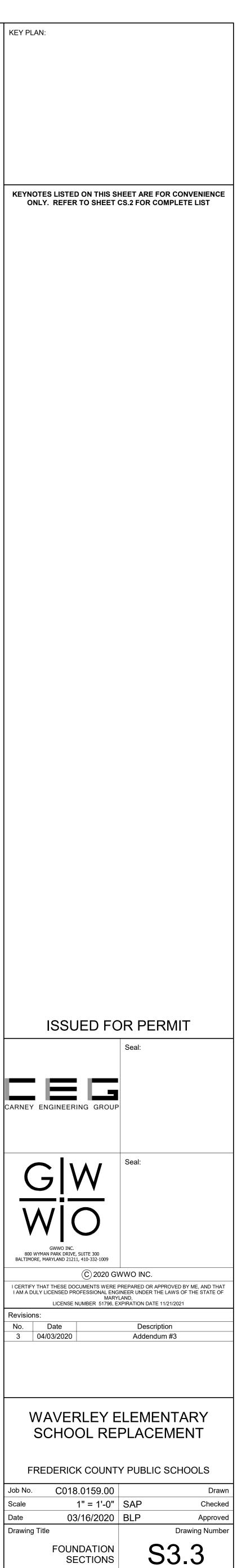
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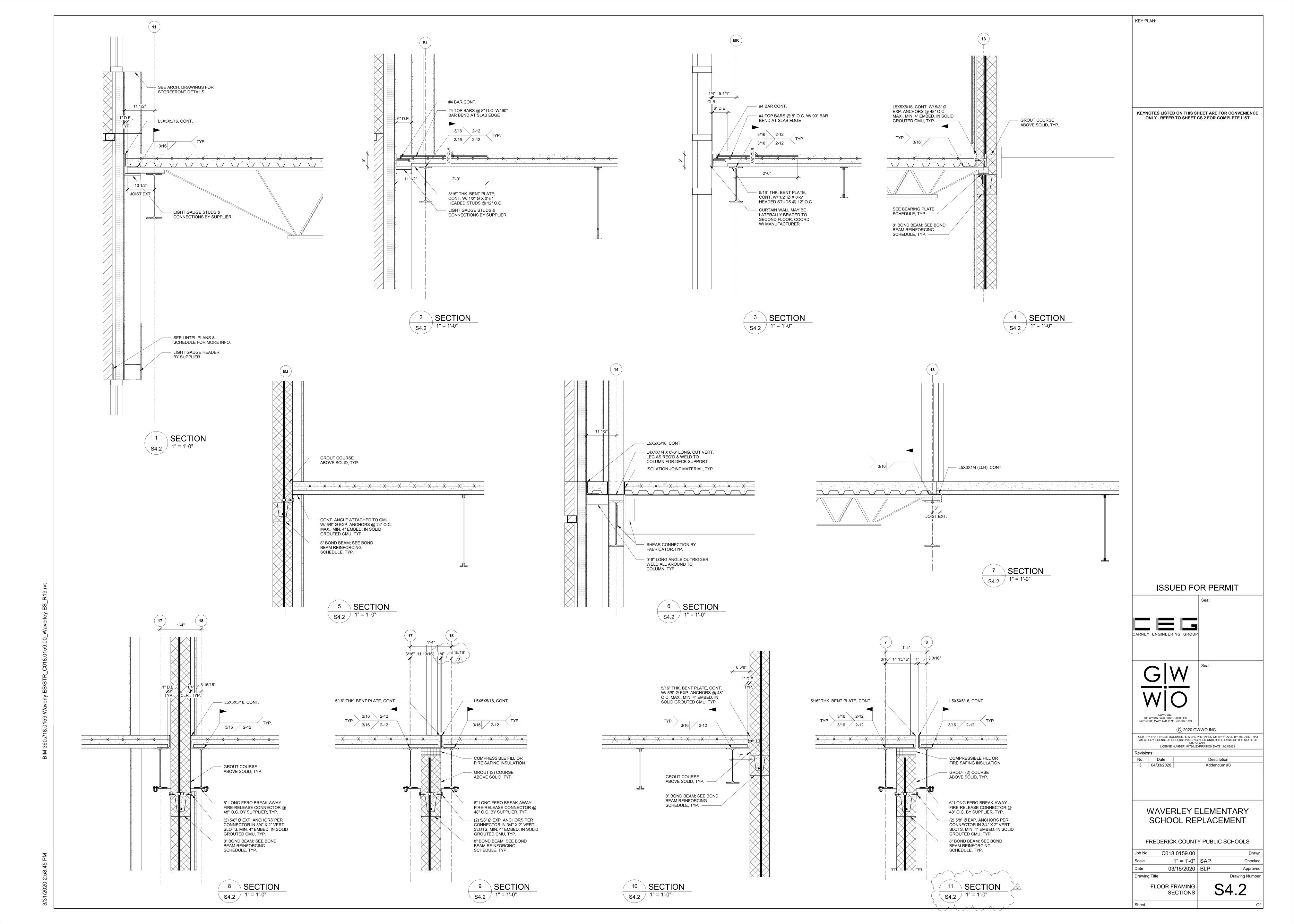
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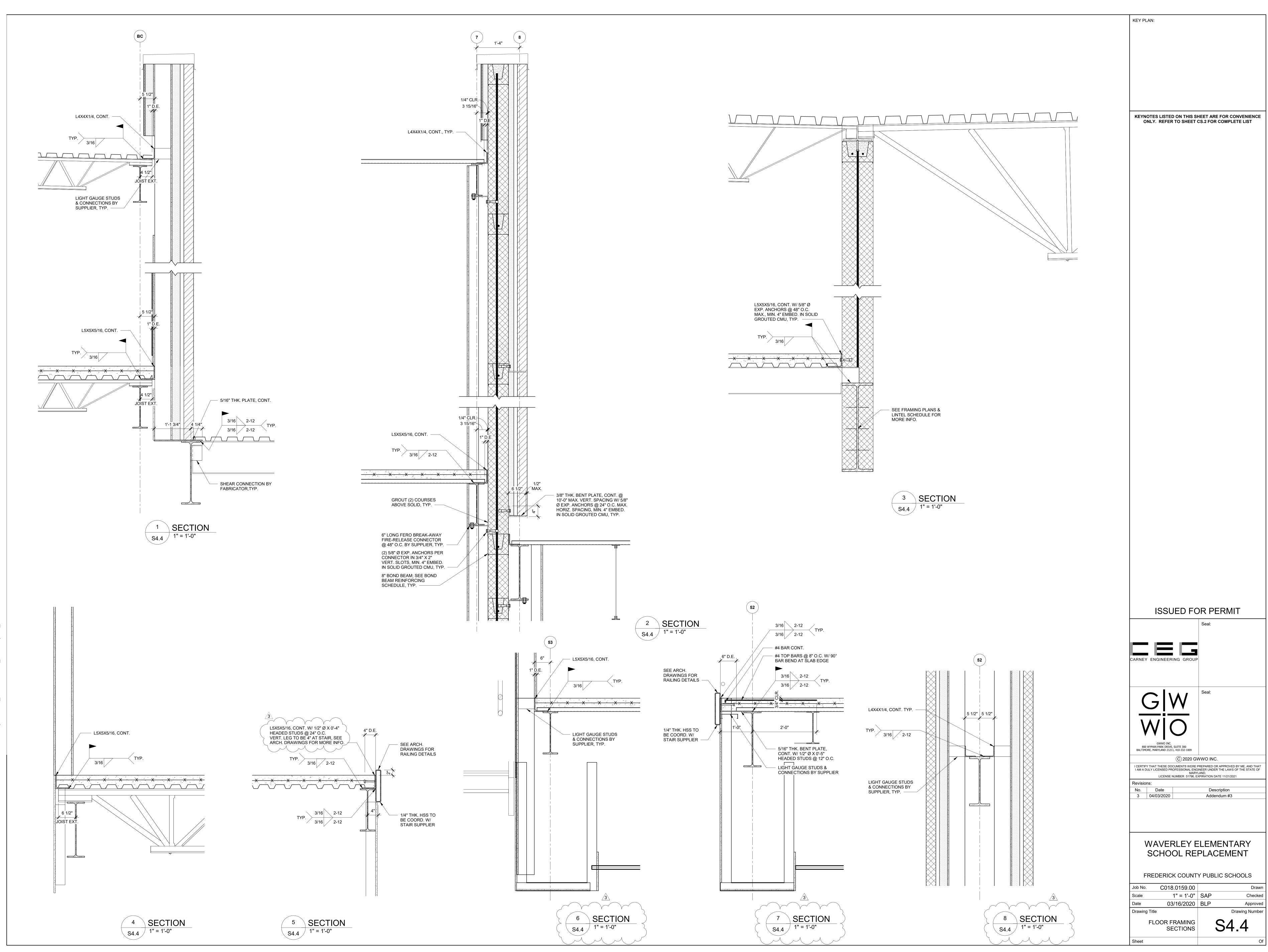
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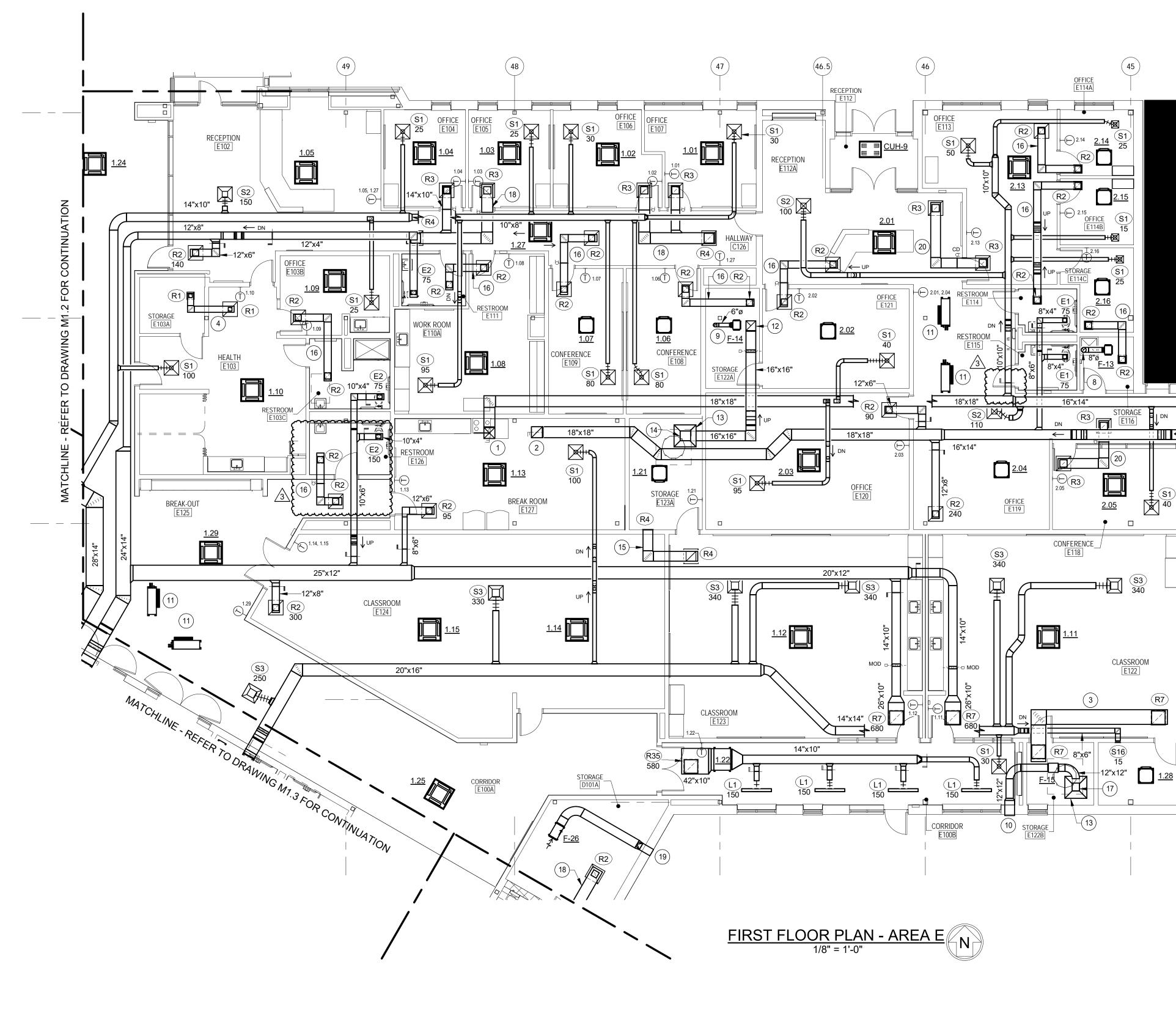




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/31/2020 2.41.34





375 WATTS

DRAWING NOTES:

1 18"x18" S/A DUCT UP W/FD TO PENTHOUSE. REFER TO DWG M3.4 FOR CONTINUATION.

- 2 18"x18" R/A DUCT UP W/FD TO PENTHOUSE. REFER TO DWG M3.4 FOR CONTINUATION.
- (3) 24"x10" SOUNDLINED TRANSFER AIR DUCT. (4) 10"x10" SOUNDLINED TRANSFER AIR DUCT.
- 5 RADIANT ELECTRIC HEAT PANEL UNDER BASE BID
- 24"x24" PANEL
- 120/1Ø/60Hz MODEL CP3751 BERKO
- (6) 16"x14" S/A DUCT CAP FOR FUTURE CONNECTION.
- (7) 16"x14" R/A DUCT CAP FOR FUTURE CONNECTION.
- (8) 8"Ø E/A DUCT UP TO ROOF THROUGH CURB.
- (9) 6"Ø E/A DUCT UP TO ROOF THROUGH CURB.
- (10) 16"x8" BRICK VENT W/ 16"x8" PLENUM BOX AND MOD BASED ON GREENHECK MODEL BVE157.
- (11) BRANCH SELECTOR BOX.

€122A₿

- (12) 16"x16" E/A DUCT UP TO <u>F-25</u> ON ROOF. REFER TO DWG M1.10 FOR CONTINAUITON.
 - (41) (43) (44) ADD/ALTERNATE SHEET MX.1 ⊨ 8"x4" ++ <u>S2</u> <u>2.06</u> CORRIDOR C127A CLASSROOM SP108 (R2 Ţ<u>⊐</u>ſ (R2) TORAGE

 - □ _____ AC

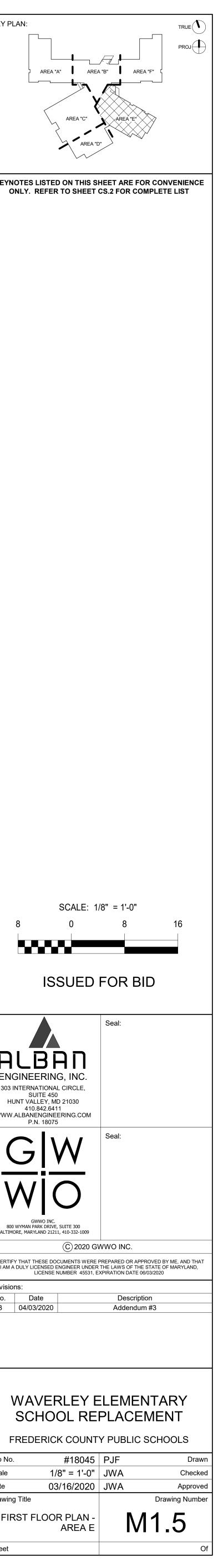
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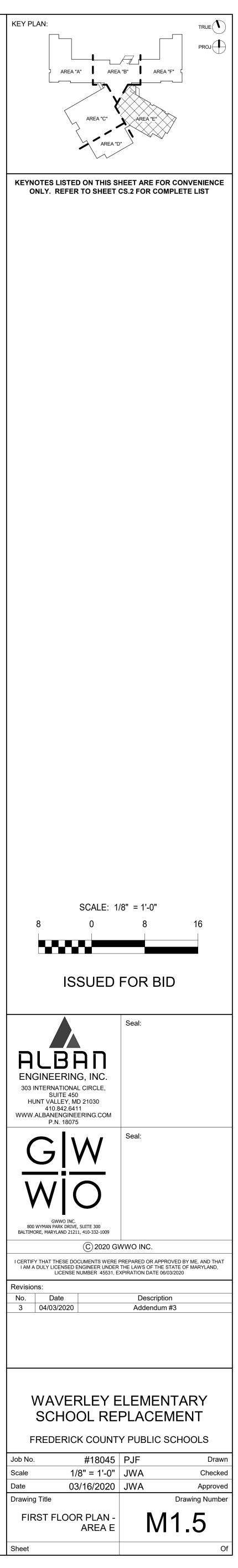
- (20) 16"x10" SOUNDLINED TRANSFER AIR DUCT.
- (19) 12"x8" BRICK VENT W/ 12"x8" PLENUM BOX AND MOD BASED ON GREENHECK MODEL BVE128.

- (18) 18"x12" SOUNDLINED TRANSFER AIR DUCT.
- 17) 12"x12" DUCT DN TO FULL SIZE CONNECTION OF HOOD.
- (16) 12"x10" SOUNDLINED TRANSFER AIR DUCT.

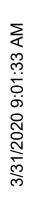
(13) KILN HOOD.

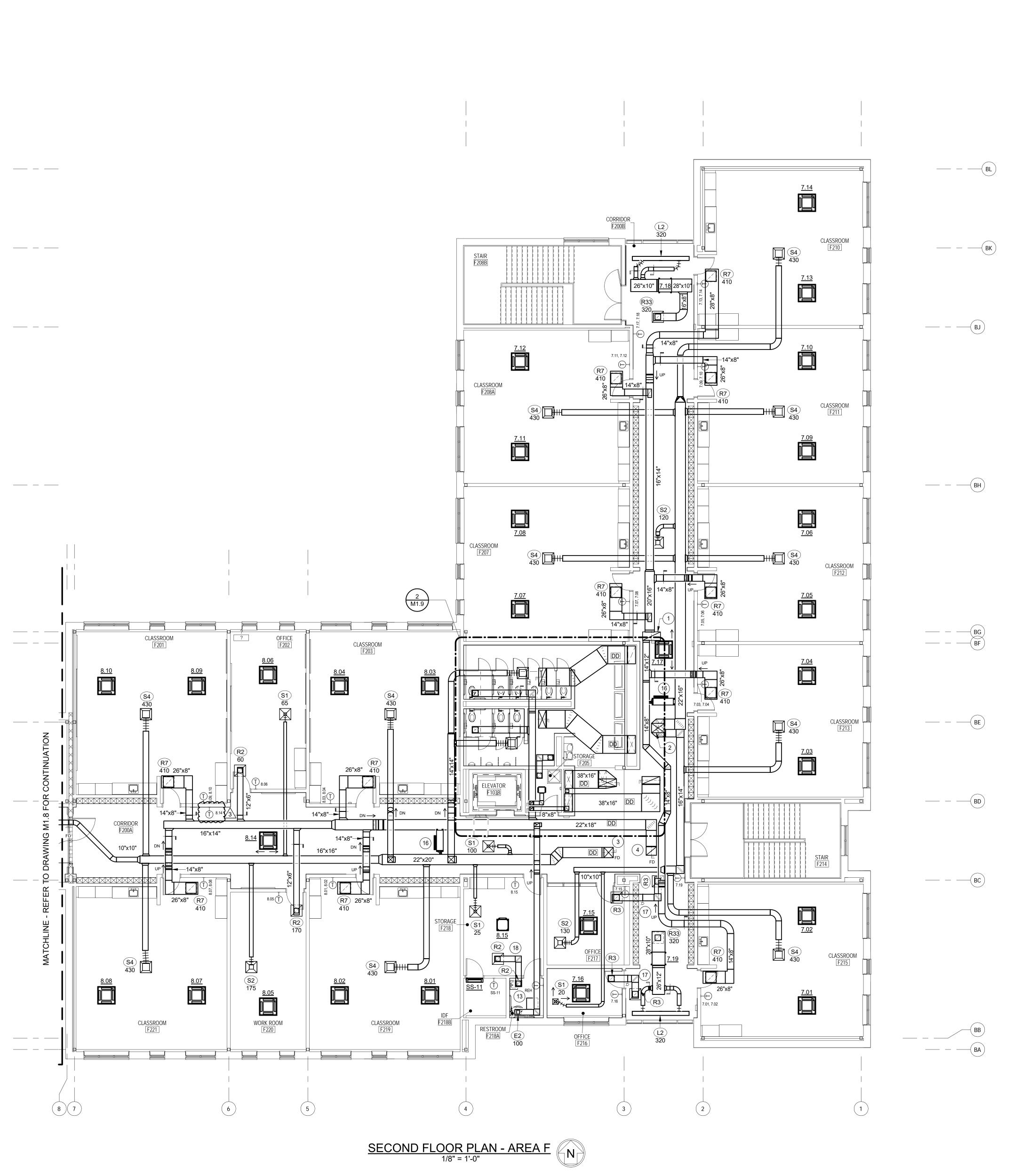
- 14) 16"x16" DUCT DN TO FULL SIZE CONNECTION OF HOOD. (15) 16"x16" SOUNDLINED TRANSFER AIR DUCT.





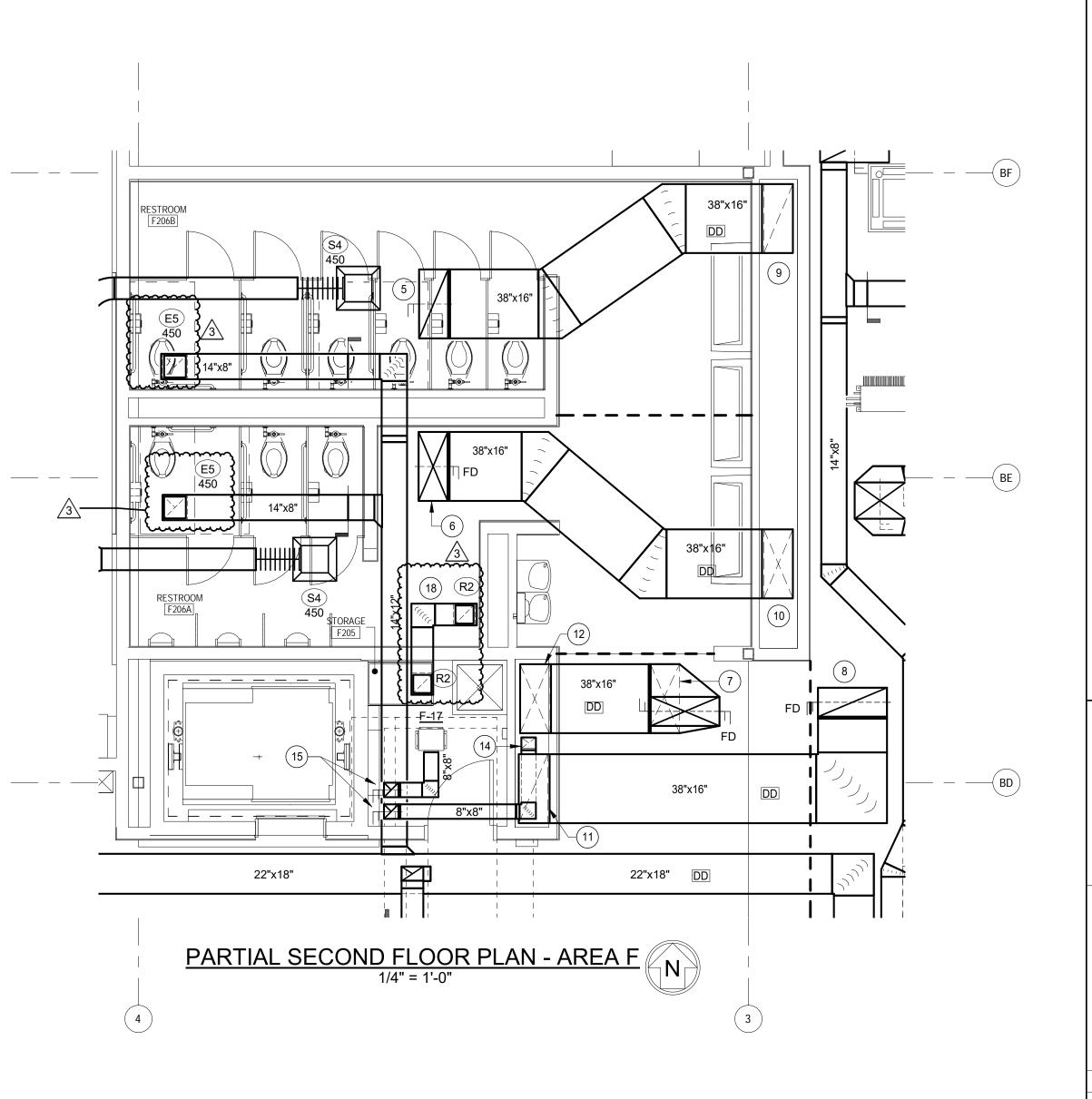
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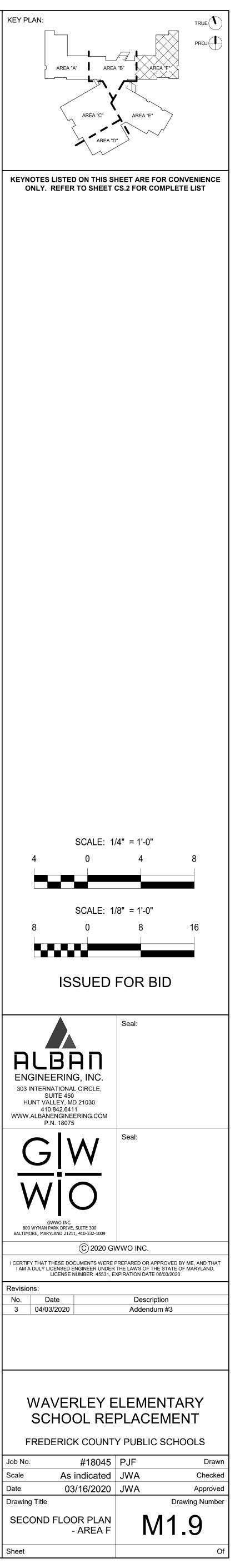




DRAWING NOTES:

- 1 38"x18" R/A DUCT UP W/FD TO PENTHOUSE. REFER TO DWG M3.5 FOR CONTINUATION.
- 2 22"x16" AND 16"x16" S/A DUCT, TRANSITION TO 28"x20" IN VERTICAL W/FD TO PENTHOUSE. REFER TO DWG M3.5 FOR CONTINUATION.
- 3 22"x20" S/A DUCT UP W/FD TO PENTHOUSE. REFER TO DWG M3.5 FOR CONTINUATION.
- 4 22"x18" R/A DUCT UP W/FD TO PENTHOUSE. REFER TO DWG M3.5 FOR CONTINUATION.
- 5 38"x16" R/A DUCT UP W/FD TO PENTHOUSE. REFER TO DWG M3.5 FOR CONTINUATION.
- 6 38"x16 S/A DUCT UP W/FD TO PENTHOUSE. REFER TO DWG M3.5 FOR CONTINUATION.
- (7) 38"x16" S/A DUCT UP. TRANSITION TO 16"x38" IN VERTICAL W/FD. REFER TO DWG M3.5 FOR CONTINUATION.
- 8 38"x16" R/A DUCT UP W/FD TO PENTHOUSE. REFER TO DWG M3.5 FOR CONTINUATION.
- 9 38"x16" R/A DUCT DN TO FIRST FLOOR. REFER TO DWG M1.6 FOR CONTINUATION.
- (10) 38"x16" S/A DUCT DN TO FIRST FLOOR. REFER TO DWG M1.6 FOR CONTINUATION.
- (1) 38"x16" R/A DUCT DN TO FIRST FLOOR. REFER TO DWG M1.6 FOR CONTINUATION.
- (12) 38"x16" S/A DUCT DN TO FIRST FLOOR. REFER TO DWG M1.6 FOR CONTINUATION.
- (13) RADIANT ELECTRIC HEAT PANEL 24"x24" PANEL
- 375 WATTS 120/1Ø/60Hz
- MODEL CP3751 BERKO
- (14) 8"x6" E/A DUCT DN TO FIRST FLOOR. REFER TO DWG M1.6 FOR CONTINUATION.
- 15 8"x8" E/A DUCT UP W/FD TO PENTHOUSE. REFER TO DWG M3.5 FOR CONTINUATION.
- (16) BRANCH SELECTOR BOX.
- (17) 14"x8" SOUNDLINED TRANSFER AIR DUCT. (18) 12"x12" SOUNDLINED TRANSFER AIR DUCT.



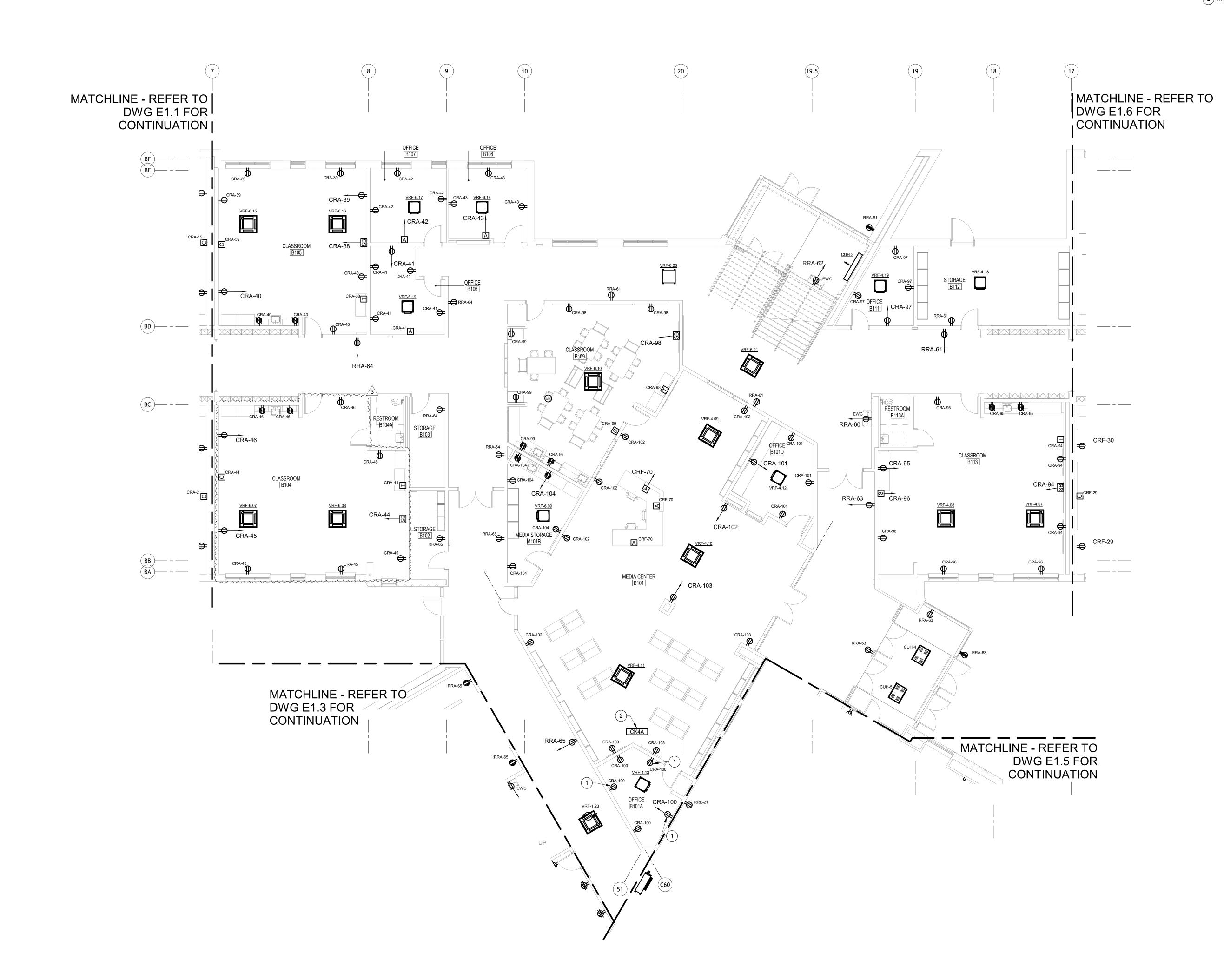


Revisions: No.

Job No.

Scale

Date







GENERAL NOTES:

- ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. EXCEPT WHERE LOCATED IN PRIVATE OFFICES, KITCHEN, STORAGE, MECHANICAL/ELECTRICAL ROOMS AND RECEPTION AREAS.
- REFER TO MECHANICAL EQUIPMENT SCHEDULES ON DWG <u>E7.6</u> FOR ADDITIONAL INFORMATION.

3. REFER TO TELECOMMUNICATION DRAWINGS FOR COORDINATION BETWEEN POWER AND DATA BOXES.

DRAWING NOTES:

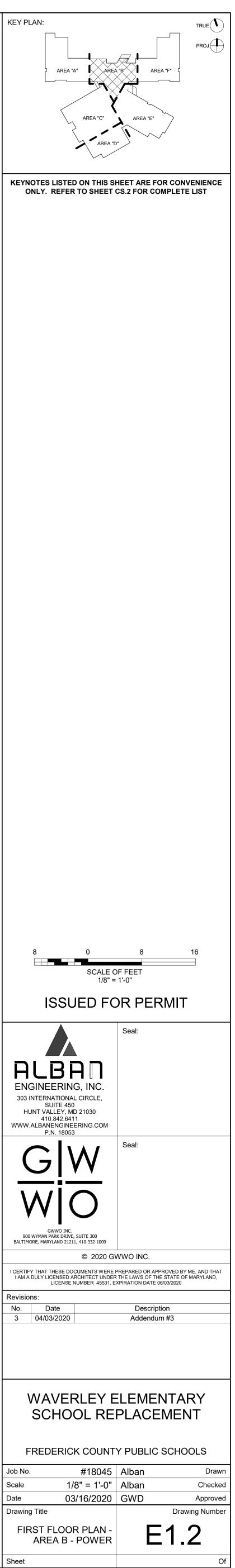
1 CONTROLLED RECEPTACLE CONTROLLED VIA CK4A ROOM CONTROLLER FOR AUTOMATIC SHUTOFF BASED ON BUILDING BAS SYSTEM.

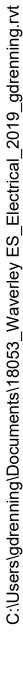
2 MOUNT CK4A ROOM CONTROLLER ABOVE ACCESSIBLE CEILING.

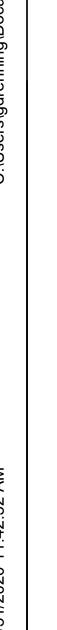
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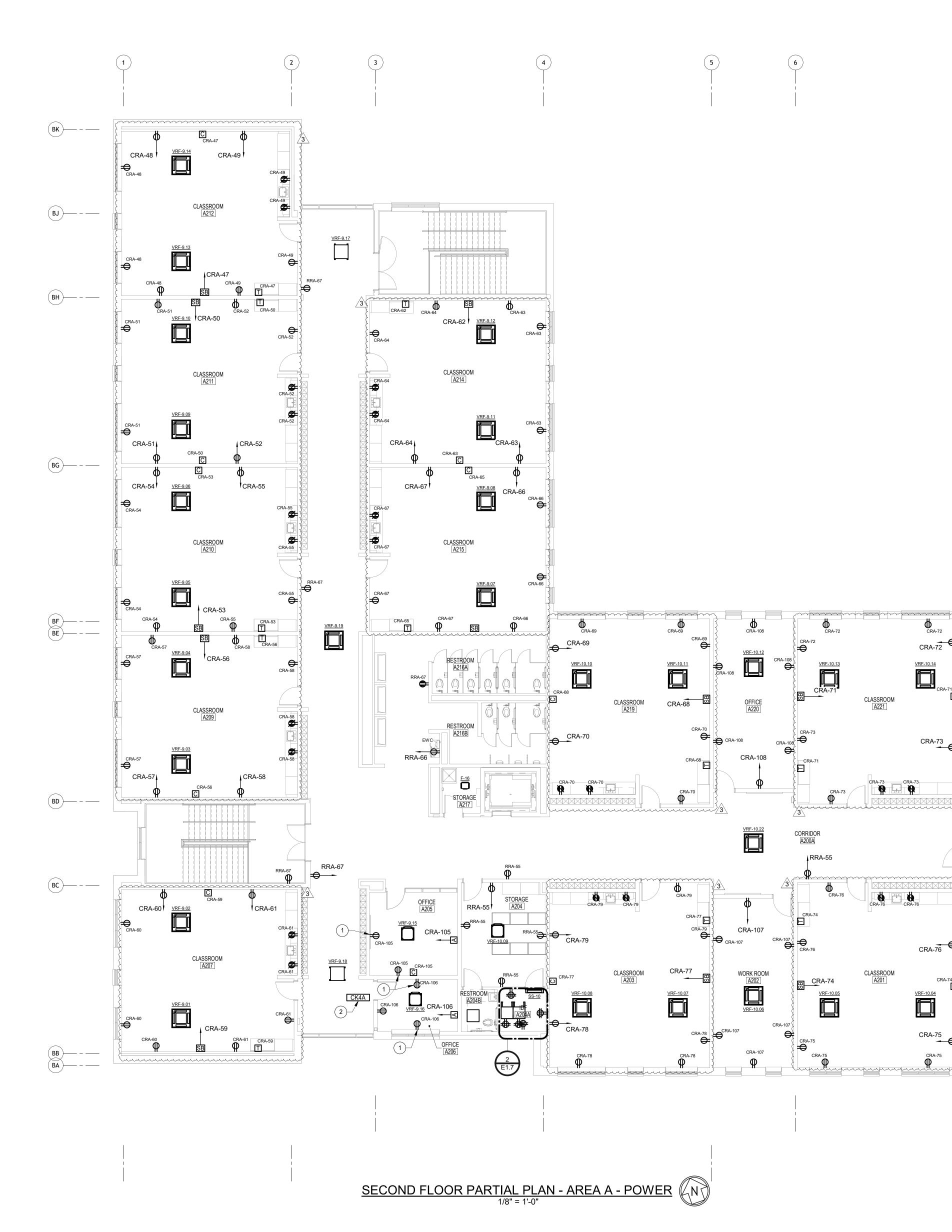
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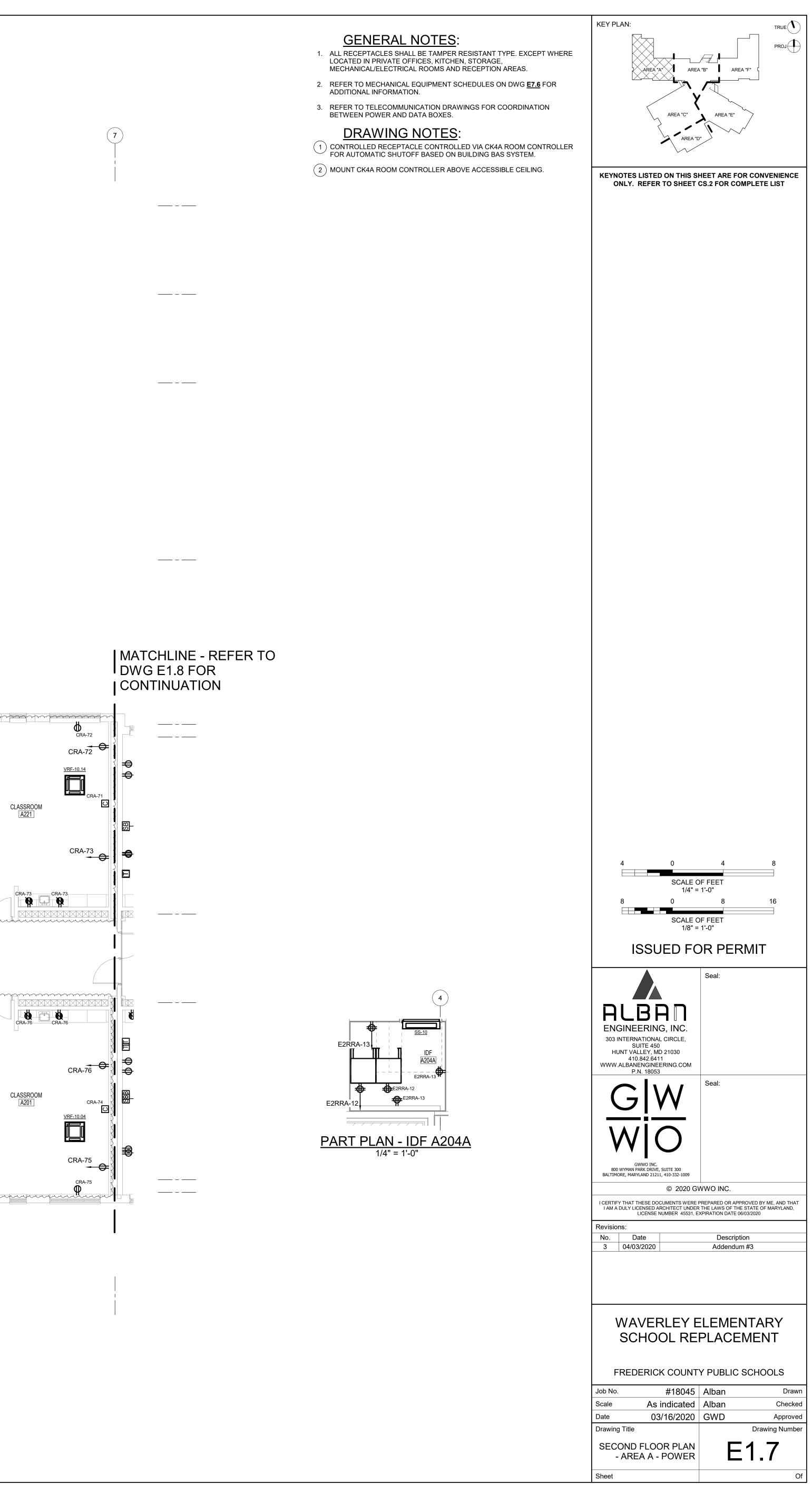
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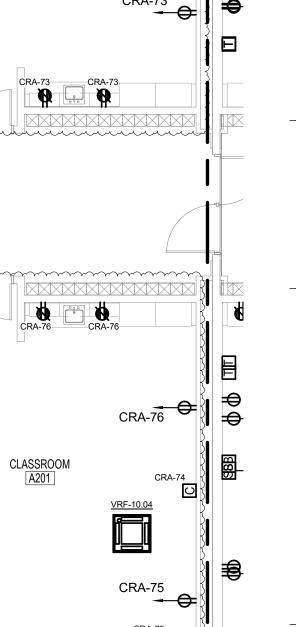


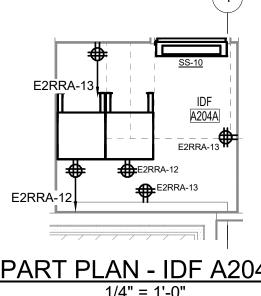


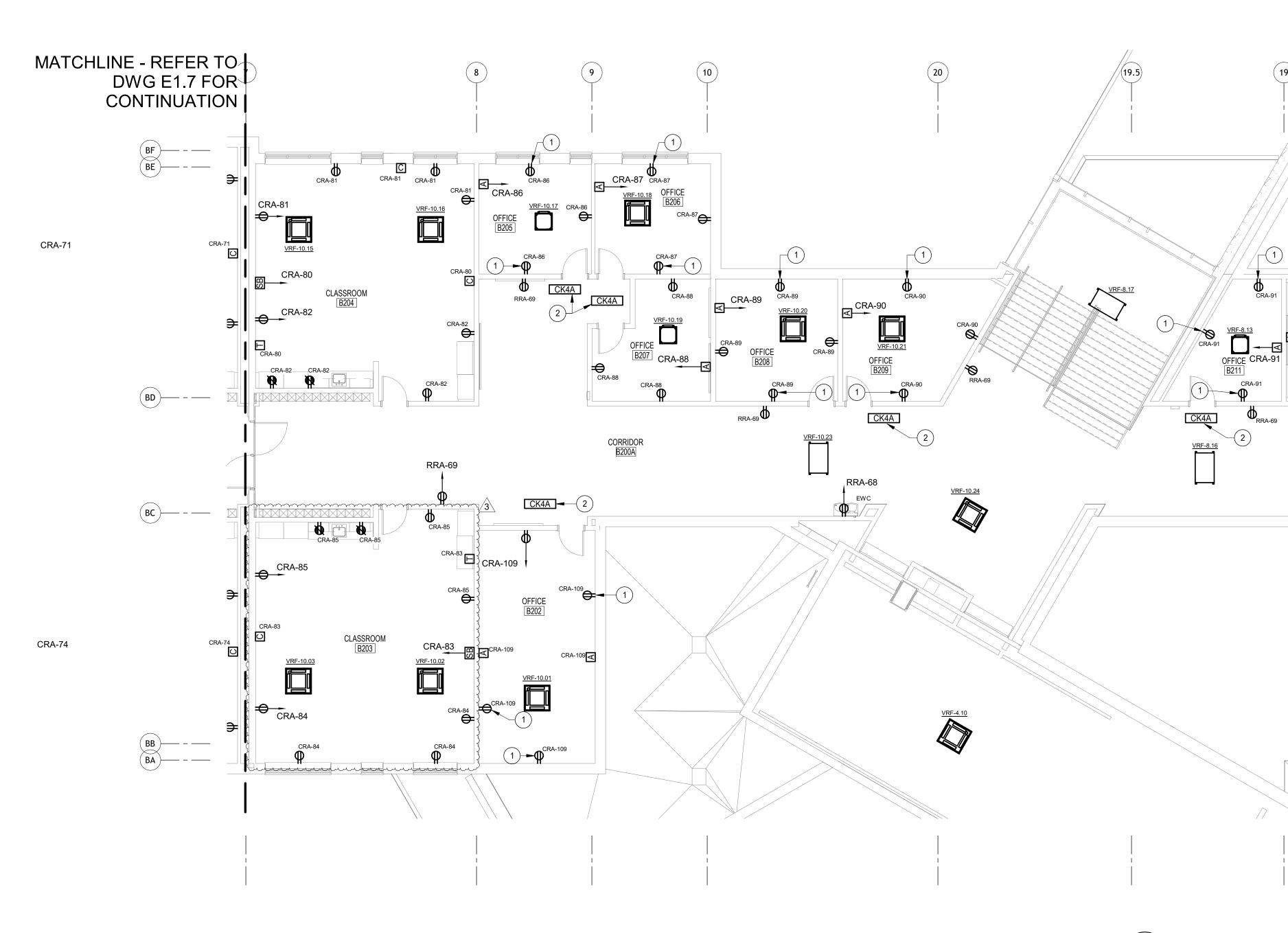














SECOND FLOOR PARTIAL PLAN - AREA B - POWER

GENERAL NOTES:

- ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE. EXCEPT WHERE LOCATED IN PRIVATE OFFICES, KITCHEN, STORAGE, MECHANICAL/ELECTRICAL ROOMS AND RECEPTION AREAS.
- REFER TO MECHANICAL EQUIPMENT SCHEDULES ON DWG <u>E7.6</u> FOR ADDITIONAL INFORMATION.
- 3. REFER TO TELECOMMUNICATION DRAWINGS FOR COORDINATION BETWEEN POWER AND DATA BOXES.

DRAWING NOTES:

- 1 CONTROLLED RECEPTACLE CONTROLLED VIA CK4A ROOM CONTROLLER FOR AUTOMATIC SHUTOFF BASED ON BUILDING BAS SYSTEM.
- 2 MOUNT CK4A ROOM CONTROLLER ABOVE ACCESSIBLE CEILING.

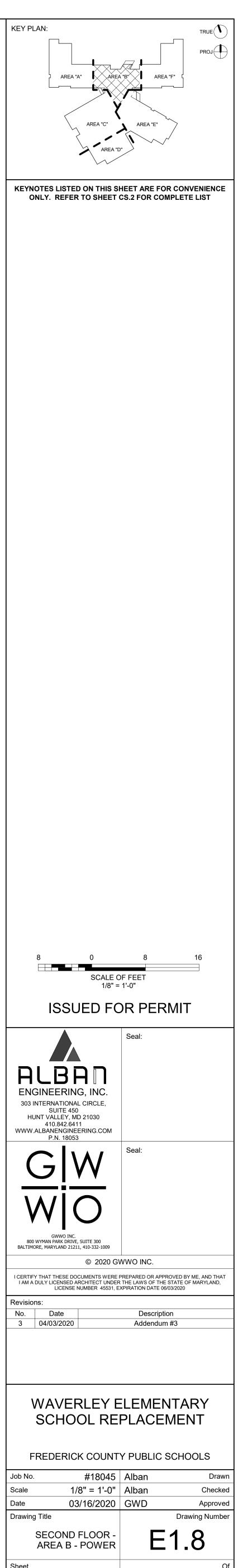
MATCHLINE - REFER TO DWG E1.9 FOR 19 (18 _____ _____ (1)_CRA-93 **X** _____ _____

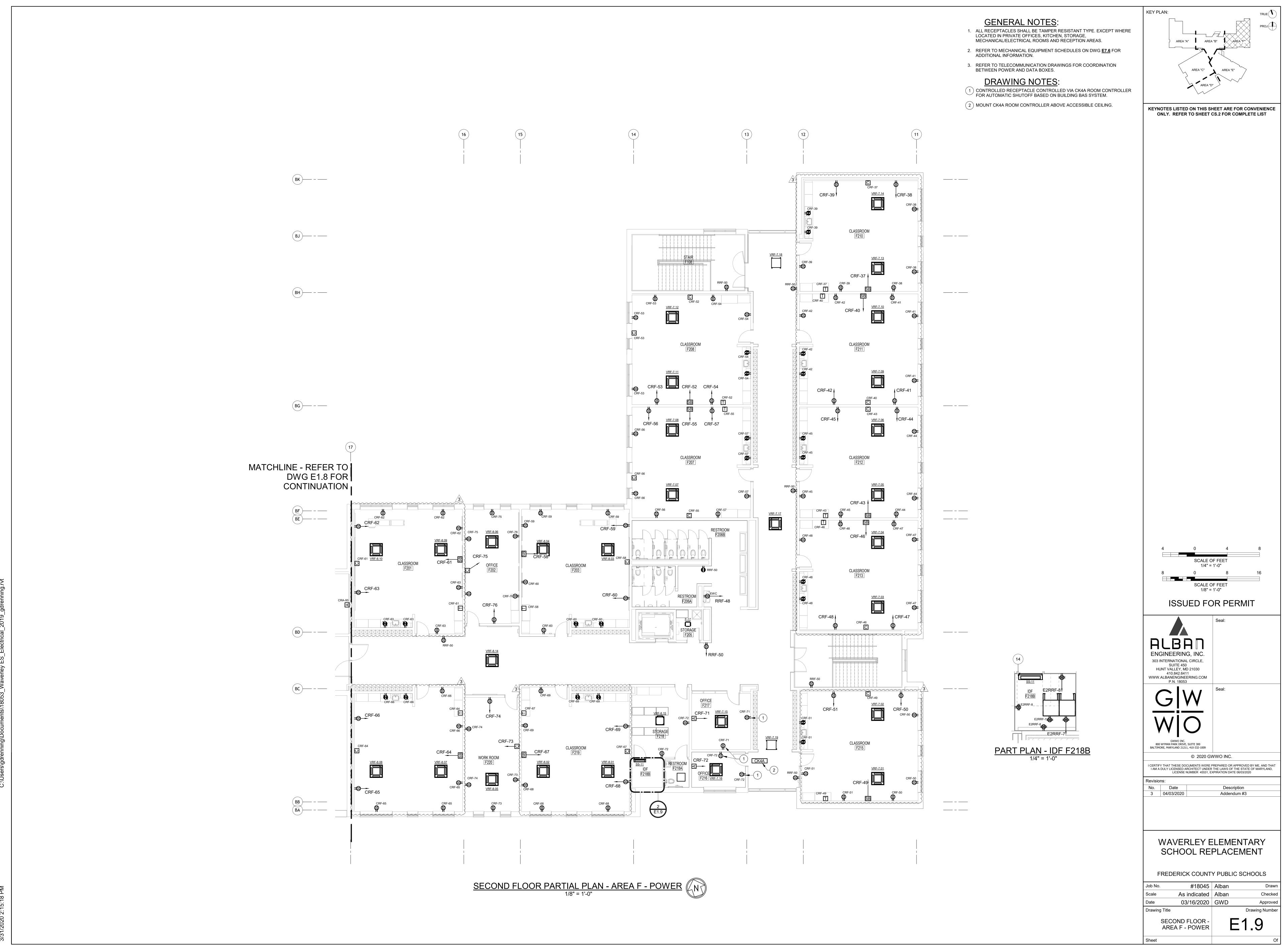
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Revisions: No. Date

Job No. Scale

Date





04.02.2020 Pre-Bid Meeting Notes Bid 20C6, Waverley Elementary School - New School Construction

Bids will be solicited for the construction of the new Waverley Elementary School. The educational specifications for this school were used to develop a new elementary school prototype design for FCPS. The new two-story building will have a state rated student capacity of 1019 students and is anticipated to open in September 2022.

Bids for the following packages: 2A Sitework; 3A Concrete; 4A Masonry; 5A Structural Steel; 6A General Carpentry; 7A Roofing; 8A Windows and Storefronts; 9A Drywall and Acoustics; 9B Ceramic Wall and Floor Tile; 9C Fluid Applied and Terrazzo Flooring; 9D Resilient Flooring and Athletic Surfacing; 9E Painting; 11A Food Service Equipment; 11B Athletic Equipment; 15A Mechanical (Plumbing, HVAC and Sprinkler); 16A Electrical (including Low Voltage) will be received and time stamped in the main lobby of Frederick County Public Schools (FCPS) at 191 South East Street, Frederick, MD 21701, prior to and time stamped no later than **11:00 a.m. local time, April 29, 2020**.

Contract Manager:	Kim Miskell, CSBO, Assistant Purchasing Manager, <u>kim.miskell@fcps.org</u>
FCPS Project Manager:	Brian Staiger, Senior Project Manager brian.staiger@fcps.org
Construction Manager:	Dave Toth, Oak Contracting, LLC dtoth@oakcontracting.com
Architect:	Scott Moir, GWWO smoir@gwwoinc.com

For information pertinent to the bidding process, the attention of all contractors, subcontractors and material supply bidders are directed to the:

- Invitation to Bid (Page 15-16)
- Instruction to Bidders (AIA Document A701) (Pages 28-35)
- Supplemental Instructions to Bidders (Supplement to AIA A701) (Pages 36-49)
- Proposal Form and Signature Page, Prevailing Wage (Pages 131-136)
- General Conditions and Supplementary Conditions of the Contract for Construction (AIA Document A232/CMa) (Pages 175-246)

Certified Minority Business Enterprises are encouraged to respond to this solicitation notice. The contractor or supplier who provides materials, supplies, equipment and/or services for this construction project shall attempt to achieve the specific MBE goal for each contract package listed below. All prime contractors, including certified MBE firms, when submitting bids or proposals as general or prime contractors, are required to attempt to achieve this goal from certified MBE firms.

Bids are being requested for the following contract packages:

2A Site Work 3A Concrete 4A Masonry 5A Structural Steel 6A General Carpentry 7A Roofing 8A Windows and Storefronts 9A Drywall and Acoustics 9B Ceramic Wall and Floor Tile 9C Fluid Applied and Terrazzo Flooring 9D Resilient Flooring and Athletic Surfacing 9E Painting 11A Food Service Equipment 11B Athletic Equipment 15A Mechanical (Plumbing, HVAC and Sprinkler)	10% 2% 2% 5% 10% 5% 10% 2% 2% 5% 7% 0% 0% 0%
15A Mechanical (Plumbing, HVAC and Sprinkler) 16A Electrical (including Low Voltage)	10% 10%

MBE Reminders:

- Please remember that prior to and up to 10 days before the bid opening, contractors must solicit minority business enterprise through written notice.
- If you are advertising in the paper or sending written solicitations via fax, please make sure you are keeping a detailed log
 of your efforts. Should you not receive any responses to your advertisement/written notices you need to make personal
 contact with those companies you solicited and keep detailed records of who you spoke to, their address, telephone
 number and dates that you contacted them.

This project will be bid with Prevailing Wage Rates.

In the event of inclement weather on the date when the bids are scheduled to be opened and the FCPS administrative offices are closed, bids will be opened on the next business day at the same time as previously scheduled. Often when schools are closed the administrative offices are open – when in doubt please call the purchasing department.

Please make sure that your bid submission includes the following:

• All applicable areas of the bid form of proposal are filled in carefully, completely and signed.

04.02.2020 Pre-Bid Meeting Notes Bid 20C6, Waverley Elementary School - New School Construction

- Acknowledge the receipt of each and every Addendum on the Bid Form of Proposals.
- Submit one (1) original and one (1) copy of Bid Form of Proposals.
- Base bid and alternate bid prices must be submitted as a numeric value and must be written in words.
- Bid bond or cashier's check for 5% of the total bid amount is included.
- Properly completed Statutory Affidavit and Non-Collusion Certification Form.
- Certificate of Compliance Form completed and signed.
- Vendor Conflict of Interest Disclosure Form completed and signed.
- MBE Attachments A & B.

Should any bidder find discrepancies in, or omissions from, the drawings and other contract documents need to request clarification in writing. All necessary interpretations will be issued to all bidders in the form of addenda.

Directed to: Kim Miskell, CSBO, Assistant Purchasing Manager at: <u>kim.miskell@fcps.org</u> with a copy to Brian Staiger, Senior Project Manager at: <u>brian.staiger@fcps.org</u> and Dave Toth, Oak Contracting, LLC <u>dtoth@oakcontracting.com</u>

No written requests received within seven (7) calendar days prior to the bid due date will be considered and no addenda will be issued later than four (4) calendar days prior to the bid opening date. (Questions Due: 4:00 p.m., local time, April 15, 2020)

Laws and Regulations:

The vendor will comply with all Federal, State, and local laws, ordinances and regulations pertaining to work under their charge. If the vendor performs any work which it knows or should know to be contrary to such laws, ordinance, and regulations and without such notices to FCPS they shall bear all costs arising therefrom.

American Steel Act:

The vendor will comply with the provisions of Sections 17-301 through 17-306 of the State Finance and Procurement Article of the Annotated Code of Maryland, as amended entitled "Steel Procurement for Public Works." The vendor's affidavit of compliance with these provisions may be required before payment can be made.

All vendors and subcontractors must abide by the Board of Education of Frederick County policies and FCPS regulations while working on school property.

Be advised that individuals who are registered sex offenders are not eligible to work on any FCPS' project. The awarded supplier(s) must initially check the Maryland Department of Public Safety & Correctional Services' Maryland Sex Offender Registry and search for the name of any employee to be assigned to work on this project. This applies to subcontractors and material/equipment suppliers as well. For projects lasting more than a few months, the supplier will periodically re-check the names of workers against the registry to ensure ongoing compliance. In the event that a registered sex offender is discovered to be working on a FCPS project, whether through employment by the supplier, subcontractor or equipment or material supplier, FCPS will notify the site superintendent to immediately remove the individual from the premises and permanently terminate his work assignment. FCPS may terminate this contract at no additional costs, as a result if the supplier is unable to demonstrate they have exercised care and diligence in the past in checking the Maryland registry.

An awarded supplier will not assign employee who has been convicted of a crime of violence as defined in § 14-101 of the Criminal Law Article, or an offense under the laws of another state that would be a violation of § 14-101 of the Criminal Law Article if committed in this state.

With the passing of Maryland Law MD. Code, Educ. 6-113.2, employers of all contracted staff must obtain background information relating to child sexual abuse or sexual misconduct. This means that all contracted staff having direct contact with students must meet all of the FCPS and Maryland State Department of Education (MSDE) requirements before doing business with FCPS. For additional information, visit:

- Maryland State Department of Education Website;
- House Bill 486 Child Sexual Abuse and Sexual Misconduct Prevention;
- MSDE Guidelines For MD. Code, Educ. 6113.2;
- Employment History Review Form for Child Abuse and Sexual Misconduct

The use of tobacco and alcohol beverages in any form is prohibited on FCPS property at all times, all year.

No person shall carry or possess any rifle, gun, knife, or deadly weapon of any kind on FCPS property.

Award of the contract is contingent upon the award of full funding for this project.

Tentative Board Award: May 27, 2020

Liquidated Damages will be assessed at \$1,000.00 per day for each calendar day required to achieve substantial completion beyond the substantial completion dated authorized by the contract.

Anticipated construction will commence on or around June 15, 2020

Substantial Completion shall be achieved by April 7, 2023

Bid 20C6, Waverley Elementary School - New Construction <u>Pre-Bid Attendance Sheet</u> April 2, 2020 at 1:30 p.m. via Skype Business Video Conference

Company	Name	Email	Phone
11400 Inc	Katie Martin	kmartin@11400inc.com	717-392-7429
Adtek Engineers	James Barto	jbarto@adtekengineers.com	301-622-4408
Altimate Electric Inc.	Mike Monday	mmonday@altimateelectric.com	301-607-8003
Asbestos Specialists Inc.	Dave Purdum	davidp@asiabatement.com	410-796-5379
Bowen and Kron Enterprises, Inc.	Devin Miller	devin@bowen-kron.com	410-686-3500
Brandenburg Electric Inc	Dave Mackley	dmackleybei@yahoo.com	301-662-0144
Brawner Builders, Inc.	Bob Estoque	bobestogue@brawnerbuilders.com	410-666-2500
C. J. Miller LLC	Jay Plummer	jplummer@cjmillerllc.com	410-239-8006
Callas Contractors, Inc.	Andrew Campbell	acampbell@callascontractors.com	301-671-3156
Callas Contractors, Inc.	Tina Rhodes	trhodes@callascontractors.com	301-739-8400
Can-Am Contractors, Inc.	Nelson Hinojosa	nelson@canamcontractors.com	301-937-1746
Chesapeake Glazing	Joanna Brentlinger	jbrentlinger@chesglazing.com	410-526-4409
Cummins Sales and Service	Karishma Konka	karishma.c.konka@cummins.com	410-320-4409
David H. Martin Excavating, Inc.	Dave Houck	dhouck@dhmexc.com	717-729-1385
Denver-Elek	Dan Shanahan	dshanahan@denver-elk.com	410-574-8400
Fidelity Power Systems	Lisa Nichols	Inichols@fidelity-ps.com	410-891-1535
Foundation for Fair Contracting - Mid Atlantic Region	Katelyn Wolford	kwolford@ffc-mar.org	202-756-4671
Fout Crane and rigging	Neil Keilen	salesfoutcrane@msn.com	301-662-1989
Fresh Air Concepts	Jason Harding	jason.h@4fac.com	410-789-7800
Gazebo Gardens	Brian Harris	brianandthings@gmail.com	240-418-4067
George Moehrle Masonry, Inc.	Rick Olcese	Estimating@moehrlemasonry.com	301-662-7584
Grounded Electrical Construction	Zach Rothfus	zrothfus@groundedelec.com	410-582-8061
Grounded Electrical Construction	Karen Lopez Saravia	klopezsaravia@groundedelec.com	301-326-3764
Heidler Roofing Services	Rodney G Everett	reverett@heidlerroofing.com	301-766-4030
Heidler Roofing Services	Andy Anglin	aanglin@heidlerroofing.com	301-766-4030
High Performance Cabling , Inc.	tim nelling	tnelling@hpcabling.com	301-739-8989
Independence Excavating	Alex Mahon	mabids@indexc.com	216-339-6312
Kaempf & Harris Sheet Metal	Keith Abrecht	keith.abrecht@kaempfandharris.com	301-663-6670
Keller Brothers, Inc.	SarahMouradian	smouradian@kellerbrothers.com	301-607-9300
Kinsley Construction		eappleby@kinsleyconstruction.com	240-313-4900
Locust Lane Farms, Inc.	Evan Appleby	steve@locustlane.com	301-574-9401
	Steve Orange		
M&B Contract Specialties, Inc.	Mike Reynolds	bids@mbcontract.comcastbiz.net	410-879-7771
Oyler Electric Inc	Ken Oyler III	oylerk3@pa.net	717-749-3187
Pleasants Construction, Inc.	Tom Veirs	tveirs@pleasantsconstruction.com	301-662-8211
Towson Mechanical, Inc.	Mike Kline	mkline@towsonmechanical.com	410-668-1210
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