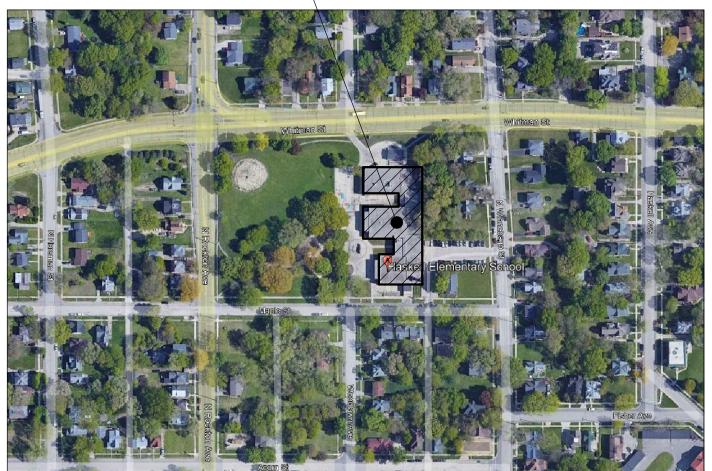
# IFB #22-50 HASKELL AND KENNEDY SCHOOLS DOOR REPLACEMENT A

### HASKELL ELEMENTARY:

ROCKFORD PUBLIC SCHOOL DISTRICT #205 LOCATION: 515 MAPLE ST. ROCKFORD, IL 61103

ARCHITECT: 1919 ARCHITECTS 4000 MORSAY DRIVE ROCKFORD, IL 61107

### <u>SITE LOCATION</u>











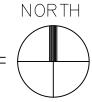
<u>SITE LOCATION</u>

SCALE: NTS RPS #2235

### KENNEDY MIDDLE SCHOOL:

- LOCATION: ROCKFORD PUBLIC SCHOOL DISTRICT #205 520 N. PIERPONT AVE. ROCKFORD, IL 61101
- ARCHITECT: 1919 ARCHITECTS 4000 MORSAY DRIVE ROCKFORD, IL 61107

CENNEDY ELEMENTARY SITE PLAN SCALE: NTS RPS #2236



AND MASONRY REPAIRS	<b>]</b> A	919 rchitect	)
	1919 Architects	4000 Morsay Drive Rockford, IL 61107 (815) 229-8222	www.1919architects.com
		OWNER ARCHITECT	CONTRACTOR BONDING CO.
THESE DOCUMENTS ARE COPYRIGHTED. REPRODUCTION OF THIS DRAWING, BY ANY PHOTOGRAPHIC, XEROGRAPHIC OR OTHER SIMILAR TECHNIQUE OR PROCESS, DURING THE BIDDING PERIOD OR FOR INCORPORATING THE MATERIAL CONTAINED HEREON INTO A SHOP DRAWING, IS STRICTLY PROHIBITED WITHOUT THE EXPRESSED CONSENT OF TYSON AND BILLY ARCHITECTS P.C. © 2019 TYSON AND BILLY ARCHITECTS, P.C. SHEET INDEX	REPLACEMENT	520 N. PIERPONT AVE. ROCKFORD IL, 61103	JMK RGB
G-1.0 <u>GOVER SHEET</u> G-1.1 <u>SPECS (DOORS)</u> G-1.2 <u>SPECS (DOORS)</u> G-1.3 <u>SPECS (MASONRY)</u> G-1.4 <u>SPECS (MASONRY)</u> G-1.1 <u>KENNEDY SITE PLAN (DOORS)</u> G2.0 <u>KENNEDY SITE PLAN (MASONRY)</u> G2.1 <u>KENNEDY PHOTOS (MASONRY)</u>	-/KENNEDY DOOR	PLE ST. DRD IL, D3	10 04-15-2022 Drn.
STATEMENT OF COMPLIANCE I have prepared, or caused to be prepared under my direct supervision, the attached plans and specifications and state that, to the best of my knowledge and belief and to the extent of my contractual obligation, they are in compliance with the Environmental Barriers Act (410 ILCS 25 Code, (71 III. Adm. Code 400.) and the Illinois Accessibility	HASKELL	HEV. Date	21-13910 Project Number
Signed: Architect/Engineer ILLINOIS REGISTRATION NO.: 001-015480 Exp. Date: 11/30/22 PROFESSIONAL DESIGN FIRM NO.: 184.003452 SEAL AND SIGNATURE ONLY APPLY TO SHEETS GO.1, GO.2, DI.1, AI.1 AND MEL.1	COVER SHEET	Sheet No:	0

SECTION 01 2100 - ALLOWANCES	SECTION 08 4213 - ALUMINUM-FRAMED ENTRANCE	Section 08 88 00 - Glazing	D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that and is not less than the thickness indicated.
PART 1 - GENERAL	PART 1 - GENERAL 1.01 SUMMARY	PART 1 - GENERAL	1. Minimum Glass Thickness for Exterior Lites: 6 mm.
1.01 SUMMARY	<ul> <li>A. Section Features:</li> <li>1. Exterior manual-swing entrance doors and door-frame units.</li> </ul>	<ul><li>1.1 RELATED DOCUMENTS</li><li>A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01</li></ul>	<ol> <li>Thickness of Tinted Glass: Provide same thickness for each tint color indicated</li> <li>E. Strength: Where annealed float glass is indicated, provide annealed float glass</li> </ol>
A. Section includes administrative and procedural requirements governing allowances.	2. Factory-installed hardware for entrances.	Specification Sections, apply to this Section.	tempered float glass as needed to comply with "Performance Requirements" Articl indicated, provide heat-strengthened float glass or fully tempered float glass as
<ul> <li>B. Types of allowances include the following:</li> <li>1. Unit-cost allowances.</li> </ul>	<ul><li>B. Related Requirements:</li><li>1. Section 06 1000 "Rough Carpentry" for framing to support aluminum entrances.</li></ul>	1.2 SUMMARY	Requirements" Article. Where fully tempered float glass is indicated, provide fully
1.02 SELECTION AND PURCHASE	<ol> <li>Section 08 7100 "Door Hardware" for hardware items not specified in this Section.</li> <li>Section 08 800 "Glazing" for glass in entrance assemblies.</li> </ol>	<ul><li>A. Section includes:</li><li>1. Glass for windows, doors, , storefront framing, glazed curtain walls, and sloped glazing.</li></ul>	2.4 GLASS PRODUCTS A Triated Anneolog Elect Class, ASTM C1026, Type L Class 2 (tinted), Quality, Q2
A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection, or purchase and	1.02 SUBMITTALS	<ol> <li>Glazing sealants and accessories.</li> </ol>	<ul><li>A. Tinted Annealed Float Glass: ASTM C1036, Type I, Class 2 (tinted), Quality-Q3.</li><li>B. Fully Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition .</li></ul>
delivery, of each product or system described by an allowance must be completed by the Architect and/or Owner to avoid delaying the Work.	<ul> <li>A. Product Data: For each type of product.</li> <li>1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.</li> </ul>	B. Related Requirements:	<ul><li>Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.</li><li>1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distorted in the second seco</li></ul>
B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.	<ul> <li>B. Shop Drawings: For aluminum-framed entrances. Include plans, elevations, sections, full-size details, and attachments to other work</li> </ul>	<ol> <li>Section 057300 "Decorative Metal Railings" for glazing in railings.</li> <li>Section 084113 "Aluminum-Framed Entrance and Storefront."</li> </ol>	installed unless otherwise indicated.
C. Purchase products and systems selected by Architect from the designated supplier.	<ol> <li>Include details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the automatic</li> </ol>	<ol> <li>Section 064113 'Aluminum-Planed Endance and Storenont.</li> <li>Section 084413 "Glazed Aluminum Curtain Walls"</li> </ol>	C. Heat-Strengthened Float Glass: ASTM C1048, Kind HS (heat strengthened), otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-
1.03 SUBMITTALS	<ul><li>to the exterior.</li><li>Show connection to and continuity with adjacent thermal, weather, air, and vapor barriers.</li></ul>	1.3 DEFINITIONS	<ol> <li>Fabrication Process: By horizontal (roller-hearth) process with roll-wave distorinstalled unless otherwise indicated.</li> </ol>
<ul> <li>A. Submit proposals for purchase of products or systems included in allowances in the form specified for Change Orders.</li> <li>B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.</li> </ul>	<ul><li>1.03 QUALITY ASSURANCE</li><li>A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.</li></ul>	A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.	2.5 INSULATING GLASS
<ul><li>C. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation</li></ul>		<ul><li>B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C1036.</li></ul>	A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glas
as part of the allowance sum. D. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.	PART 2 - *Not Typical*PRODUCTS 2.01 ENTRANCE DOOR SYSTEMS	C. IBC: International Building Code.	<ul><li>qualified according to ASTM E2190.</li><li>1. Sealing System: Dual seal, with manufacturer's standard primary and secondary</li></ul>
1.04 DELIVERY AND STORAGE	A. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing operation.	D. Interspace: Space between lites of an insulating-glass unit.	<ol> <li>Scaling System: Dual scal, with manufacturer's standard primary and secondard</li> <li>Perimeter Spacer: Manufacturer's standard spacer material and construction</li> </ol>
A. Arrange for delivery of products purchased under an allowance, from place of delivery to Project site, including any storage	<ol> <li>Door Construction: 1-3/4-inch overall thickness, with minimum 0.125-inch-thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incompared to and the and the state.</li> </ol>	<ul><li>1.4 COORDINATION</li><li>A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and</li></ul>	a. <u>Technoform</u>
required during transport to the site. B. Do not deliver such products until any facilities required for storage are in proper condition.	incorporate concealed tie rods. 2. Door Design: As indicated.	adequate sealant thicknesses, with reasonable tolerances.	3. Desiccant: Molecular sieve or silica gel, or a blend of both.
C. Promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.	<ol> <li>Glazing Stops and Gaskets: Snap-on, extruded-aluminum stops and preformed gaskets.</li> <li>a. Provide nonremovable glazing stops on outside of door.</li> </ol>	1.5 ACTION SUBMITTALS	2.6 GLAZING SEALANTS A. General:
1.05 UNIT-COST ALLOWANCES	A. Framing Members: Manufacturer's standard extruded aluminum, minimum 0.125 inch thick and reinforced as required to support imposed loads.	<ul><li>A. Product Data: For each type of product.</li><li>B. Glass Samples: For each type of the following products; 12 inches (300 mm) square.</li></ul>	<ol> <li>Compatibility: Compatible with one another and with other materials they co</li> </ol>
A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include applicable taxes, freight, and delivery to Project site.	<ol> <li>Nominal Size: 1-3/4 by 4-1/2 inches except as indicated otherwise on Drawings.</li> <li>Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts</li> </ol>	1. Tinted glass.	insulating-glass units, and glazing channel substrates, under conditions of ser sealant manufacturer based on testing and field experience.
B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit,	adjacent construction.	2. Insulating glass.	2. Suitability: Comply with sealant and glass manufacturers' written instructions applications indicated and for conditions existing at time of installation.
and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance.	<ul><li>2.02 ENTRANCE DOOR HARDWARE</li><li>A. Preparation: Prepare doors for hardware items specified in Section 08 7100 "Door Hardware."</li></ul>	C. glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.	<ol> <li>Colors of Exposed Glazing Sealants: As indicated by manufacturer's designation</li> </ol>
C. Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.	<ul> <li>B. Pulls: Manufacturer's standard ADA-compliant tubular offset-D pull, finished to match door.</li> <li>C. Butt Hinges: BHMA A156.1, Grade 1, radius corner.</li> </ul>	D. Delegated-Design Submittal: For glass indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.	B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM Use NT.
<ol> <li>If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.</li> </ol>	1. Nonremovable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin	1.6 INFORMATIONAL SUBMITTALS	
1.06 ADJUSTMENT OF ALLOWANCES	<ul><li>while entrance door is closed.</li><li>2. Exterior Hinges: Stainless steel, with stainless-steel pin.</li></ul>	A. Qualification Data: For Installer and manufacturers of insulating-glass units with sputter-coated, low-E coatings.	<ul><li>2.7 GLAZING TAPES</li><li>A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent so</li></ul>
A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include	<ol> <li>Quantities: Provide three hinges per leaf.</li> <li>D. Weather Stripping: Manufacturer's standard replaceable components.</li> </ol>	<ul><li>B. Product Certificates: For glass.</li><li>C. Product Test Reports: For tinted glass, for tests performed by a qualified testing agency.</li></ul>	nonmigrating in contact with nonporous surfaces; with or without spacer rod as re manufacturers for application indicated; and complying with ASTM C1281 and AA
reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins. 1. Include installation costs in purchase amount only where indicated as part of the allowance.	1. Compression Type: Made of ASTM D 2000, molded neoprene, or ASTM D 2287, molded PVC.	<ul><li>D. Sample Warranties: For special warranties.</li></ul>	1. AAMA 804.3 tape, where indicated.
<ol> <li>If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other markups.</li> <li>Submit substantiation of a change in scope of Work, if any, claimed in Change Orders related to unit-cost allowances.</li> </ol>	<ol> <li>Sliding Type: AAMA 701/702, made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.</li> <li>Other Hardware Items: As specified in Section 08 7100 "Door Hardware."</li> </ol>	1.7 QUALITY ASSURANCE	<ol> <li>AAMA 806.3 tape, for glazing applications in which tape is subject to continue</li> <li>AAMA 807.3 tape for glazing applications in which tape is not subject to continue</li> </ol>
4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count.	<ul><li>2.03 GLAZING</li><li>A. Glazing: Comply with Section 08 8000 "Glazing."</li></ul>	A. Manufacturer Qualifications for Insulating-Glass Units with Sputter-Coated, Low-E Coatings: A qualified insulating-glass manufacturer who is approved by coated-glass manufacturer.	<ol> <li>AAMA 807.3 tape, for glazing applications in which tape is not subject to cont</li> <li>B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coate</li> </ol>
<ul> <li>B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.</li> </ul>	B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets,	<ul><li>B. Installer Qualifications: A qualified installer with five years' experience.</li></ul>	<ul><li>complying with AAMA 800 for the following types:</li><li>1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primar</li></ul>
<ol> <li>Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of Work has changed from what could have been foreseen from information in the Contract Documents.</li> </ol>	setting blocks, and shims or spacers. C. Glazing Sealants: As recommended by manufacturer.	1.8 DELIVERY, STORAGE, AND HANDLING	<ol> <li>AAMA 810.1, Type 1, for glazing applications in which tape acts as the primat</li> <li>AAMA 810.1, Type 2, for glazing applications in which tape is used in combined and the statement of the st</li></ol>
<ol> <li>No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.</li> </ol>	<ul><li>2.04 ACCESSORIES</li><li>A. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories</li></ul>	A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.	2.8 MISCELLANEOUS GLAZING MATERIALS
1.07 SCHEDULE OF ALLOWANCES	<ol> <li>Compatible with adjacent materials.</li> <li>Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind</li> </ol>	B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.	A. General: Provide products of material, size, and shape complying with referenced manufacturers of glass and other glazing materials for application indicated, and w
A. Allowance No. 1: Unit-Cost Allowance: Include the sum of \$1,000.00 per thousand for brick."	<ol> <li>Ose sendocking devices where lasteners are subject to lossening of turning out nom thermal and subcurat movements, while loads, or vibration.</li> <li>Reinforce members as required to receive fastener threads.</li> </ol>		surfaces contacted in installation.
END OF SECTION 012100	2. Refinition members as required to receive fasterier timeads.	<ul><li>1.9 FIELD CONDITIONS</li><li>A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside</li></ul>	<ul><li>B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufact</li><li>C. Setting Blocks:</li></ul>
	<ul> <li>A. Form or extrude aluminum shapes before finishing.</li> <li>B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and</li> </ul>	limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.	1. Type recommended by sealant or glass manufacturer.
	<ul> <li>welding oxides from exposed surfaces by descaling or grinding.</li> <li>C. Fabricate components that, when assembled, have the following characteristics:</li> </ul>	1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F (4.4 deg C).	<ul><li>D. Spacers:</li><li>1. Type recommended by sealant or glass manufacturer.</li></ul>
	1. Profiles that are sharp, straight, and free of defects or deformations.	1.10 WARRANTY	E. Edge Blocks:
	<ol> <li>Accurately fitted joints with ends coped or mitered.</li> <li>Physical and thermal isolation of glazing from framing members.</li> </ol>	A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that	1. Type recommended by sealant or glass manufacturer.
	<ul> <li>Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.</li> <li>D. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door</li> </ul>	deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.	F. Cylindrical Glazing Sealant Backing: ASTM C1330, Type O (open-cell material) sealant depth and otherwise produce optimum glazing sealant performance.
	hardware. E. Entrance Doors: Reinforce doors as required for installing entrance door hardware.	<ol> <li>Warranty Period: 10 years from date of Substantial Completion.</li> </ol>	2.9 FABRICATION OF GLAZING UNITS
	F. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.	B. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use	A. Fabricate glazing units in sizes required to fit openings indicated for Project, w surface conditions, and bite complying with written instructions of product
	G. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.	that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.	publications, to comply with system performance requirements.
	<ul><li>2.06 ALUMINUM FINISHES</li><li>A. Clear Anodic Finish: AAMA 611, or thicker.</li></ul>	<ol> <li>Warranty Period: 10 years from date of Substantial Completion.</li> </ol>	<ol> <li>Allow for thermal movements from ambient and surface temperature change glazing components.</li> </ol>
	B. Color Anodic Finish: AAMA 611, or thicker.	PART 2 - PRODUCTS	a. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg
	1. Color: . 2. Color: .	2.1 MANUFACTURERS	B. Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites to produc junctions of edges and faces.
	C. Baked-Enamel or Powder-Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils. Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.	A. <u>Cardinal</u> Glass Industries	C. Grind smooth and polish exposed glass edges and corners.
	<ol> <li>Color and Gloss: .</li> <li>D. High-Performance Organic Finish: Two-coat fluoropolymer finish complying with and containing not less than percent resin by</li> </ol>	<ul><li>B. Pilkington North America</li><li>C. Source Limitations for Glass: Obtain from single source from single manufacturer for each glass type.</li></ul>	PART 3 - EXECUTION
	weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.	1. Obtain tinted glass from single source from single manufacturer.	<ul><li>3.1 EXAMINATION</li><li>A. Examine framing, glazing channels, and stops, with Installer present, for compliance</li></ul>
	<ol> <li>Color and Gloss: .</li> <li>E. High-Performance Organic Finish: -coat fluoropolymer finish complying with AAMA 2605 and containing not less than percent</li> </ol>	D. Source Limitations for Glazing Accessories: Obtain from single source from single manufacturer for each product and installation method.	<ol> <li>Examine naming, gizzing chamers, and stops, with instance present, for compnant</li> <li>Manufacturing and installation tolerances, including those for size, squareness,</li> </ol>
	resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.	2.2 PERFORMANCE REQUIREMENTS	2. Presence and functioning of weep systems.
	1. Color and Gloss: .	A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable)	3. Minimum required face and edge clearances.
	PART 3 - EXECUTION	without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.	<ul><li>4. Effective sealing between joints of glass-framing members.</li><li>B. Proceed with installation only after unsatisfactory conditions have been corrected.</li></ul>
	<ul><li>3.01 EXAMINATION</li><li>A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting</li></ul>	B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to	3.2 PREPARATION
	<ul> <li>performance of the Work.</li> <li>B. Proceed with installation only after unsatisfactory conditions have been corrected.</li> </ul>	<ul><li>design glazing.</li><li>C. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated</li></ul>	<ul> <li>A. Clean glazing channels and other framing members receiving glass immediately firmly bonded to substrates.</li> </ul>
	3.02 INSTALLATION	determined according to the IBC and ASTM E1300.	B. Examine glazing units to locate exterior and interior surfaces. Label or mark unit
	<ul><li>A. General:</li><li>1. Comply with manufacturer's written instructions.</li></ul>	<ol> <li>Design Wind Pressures: As indicated on Drawings.</li> <li>Design Wind Pressures: Determine design wind pressures applicable to Project according to ASCE/SEI 7, based on</li> </ol>	surfaces are readily identifiable. Do not use materials that leave visible marks in the
	2. Do not install damaged components.	heights above grade indicated on Drawings.	<ul><li>3.3 GLAZING, GENERAL</li><li>A. Comply with combined written instructions of manufacturers of glass, sealants, ga</li></ul>
	3 Fit joints to produce hairline joints free of hurrs and distortion	a. Wind Design Data: As indicated on Drawings.	A. Comply whit combined written instructions of manufacturers of glass, scalaris, ga more stringent requirements are indicated, including those in referenced glazing pu
	<ol> <li>Fit joints to produce hairline joints free of burrs and distortion.</li> <li>Rigidly secure nonmovement joints.</li> </ol>	<ul><li>b. Importance Factor: 1.0.</li></ul>	
	<ol> <li>Rigidly secure nonmovement joints.</li> <li>Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.</li> </ol>		B. Protect glass edges from damage during handling and installation. Remove dama dispose of off Project site. Damaged glass includes glass with edge damage or
	<ol> <li>Rigidly secure nonmovement joints.</li> <li>Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding</li> </ol>	<ul> <li>b. Importance Factor: 1.0.</li> <li>c. Exposure Category: B.</li> <li>4. Design Snow Loads: As indicated on Drawings.</li> </ul>	B. Protect glass edges from damage during handling and installation. Remove dama
	<ol> <li>Rigidly secure nonmovement joints.</li> <li>Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.</li> <li>Seal perimeter and other joints watertight unless otherwise indicated.</li> </ol>	<ul><li>b. Importance Factor: 1.0.</li><li>c. Exposure Category: B.</li></ul>	<ul> <li>B. Protect glass edges from damage during handling and installation. Remove dama dispose of off Project site. Damaged glass includes glass with edge damage or could weaken glass, impair performance, or impair appearance.</li> <li>C. Apply primers to joint surfaces where required for adhesion of sealants, as determine D. Install setting blocks in sill rabbets, sized and located to comply with referenced</li> </ul>
	<ol> <li>Rigidly secure nonmovement joints.</li> <li>Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.</li> <li>Seal perimeter and other joints watertight unless otherwise indicated.</li> <li>Metal Protection:         <ol> <li>Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with</li> </ol> </li> </ol>	<ul> <li>b. Importance Factor: 1.0.</li> <li>c. Exposure Category: B.</li> <li>4. Design Snow Loads: As indicated on Drawings.</li> <li>5. Probability of Breakage for Sloped Glazing: For glass surfaces sloped more than 15 degrees from vertical, design glass</li> </ul>	<ul> <li>B. Protect glass edges from damage during handling and installation. Remove dama dispose of off Project site. Damaged glass includes glass with edge damage or could weaken glass, impair performance, or impair appearance.</li> <li>C. Apply primers to joint surfaces where required for adhesion of sealants, as determine D. Install setting blocks in sill rabbets, sized and located to comply with reference required by glass manufacturer. Set blocks in thin course of compatible sealant suit E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass</li> </ul>
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Maximum Lateral Deflection: For glass supported on all four edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or 1 inch (25 mm), whichever is less.</li> <li>7. Differential Shading: Design glass to resist thermal stresses induced by differential shading within individual glass lites.</li> <li>D. Windoome-Debris Impact Resistance: Exterior glazing shall pass ASTM E1886 missile-impact and cyclic-pressure tests in accordance with ASTM E1996 for Wind Zone 4 for basic protection.</li> <li>8. Large-Missile Test: For glazing located within 30 feet (9.1 m) and above grade.</li> <li>E. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.</li> <li>F. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:</li> <li>I. For monolithic-glass lites, properties are based on units with lites 6 mm thick.</li> <li>G. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.</li> <li>J. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Blu'sg, fl. x h x dg F (W/sq. m x K).</li> <li>Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.</li> <li>Visible Reflectance: Center-of-glazing values, according to NFRC 300.</li> </ul> 23 GLASS PRODUCTS, GENERAL A. Glazing Publications: Comply with published recommendations of glass product manuf	<ul> <li>B. Protect glass edges from damage during handling and installation. Remove dama dispose of off Project site. Damaged glass includes glass with edge damage or could weaken glass, impair performance, or impair appearance.</li> <li>C. Apply primers to joint surfaces where required for adhesion of sealants, as determin D. Install setting blocks in sill rabbets, sized and located to comply with reference required by glass manufacturer. Set blocks in thin course of compatible sealant suit E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass F. Provide spacers for glass lites where length plus width is larger than 50 inches (127)</li> <li>1. Locate spacers directly opposite each other on both inside and outside faces of preserve required face clearances, unless gaskets and glazing tapes are used th required face clearances and to comply with system performance requirements</li> <li>2. Provide 1/8-inch (3-mm) minimum bite of spacers on glass and use thickness of use thickness slightly less than final compressed thickness of tape.</li> <li>G. Provide edge blocking where indicated or needed to prevent glass lites from n recommended in writing by glass manufacturer and according to requirements in re</li> <li>H. Set glass lites with proper orientation so that coatings face exterior or interior as spe J. Where wedge-shaped gaskets are driven into one side of channel to pressurize see adequate anchorage so gasket cannot walk out when installation is subjected to more K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner re prevent corners from pulling away; seal corner joints and butt joints with sealant re</li> <li>3.4 TAPE GLAZING</li> <li>A. Position tapes on fixed stops so that, when compressed by glass, their exposed c above sightline of stops.</li> <li>B. Install tapes continuously, but not necessarily in one continuous length. Do not stree C. Cover vertical framing joints by applying tapes to heads and sills.</li> <li>D. Place joints in tapes at corr</li></ul>

- ponents. rature Change: 120 deg F (67 deg C), ambient; 180 deg F (100
- at-grind vertical edges of butt-glazed monolithic lites to pr
- es and faces. nd polish exposed glass edges and corners.
- TION

- g, glazing channels, and stops, with Installer present, for comp ng and installation tolerances, including those for size, square
- d functioning of weep systems.
- quired face and edge clearances.
- aling between joints of glass-framing members.
- tallation only after unsatisfactory conditions have been correct
- hannels and other framing members receiving glass immed
- g units to locate exterior and interior surfaces. Label or mark y identifiable. Do not use materials that leave visible marks
- JERAL
- mbined written instructions of manufacturers of glass, sealan equirements are indicated, including those in referenced glazin ges from damage during handling and installation. Remove
- ass, impair performance, or impair appearance.
- o joint surfaces where required for adhesion of sealants, as dete
- or glass lites where length plus width is larger than 50 inches rs directly opposite each other on both inside and outside fac uired face clearances, unless gaskets and glazing tapes are us
- e clearances and to comply with system performance requirer -inch (3-mm) minimum bite of spacers on glass and use thick
- locking where indicated or needed to prevent glass lites fr
- n writing by glass manufacturer and according to requirements
- each series with uniform pattern, draw, bow, and similar char
- haped gaskets are driven into one side of channel to pressuri
- ge-shaped gaskets at corners and install gaskets in a manr from pulling away; seal corner joints and butt joints with seala
- n fixed stops so that, when compressed by glass, their expo f stops.
- o jambs, then to heads and sills.
- of elastomeric sealant.
- es in openings on setting blocks, and press firmly against alled to lock in place against faces of removable stops. Start g

- - substrates.

  - Project site. Damaged glass includes glass with edge damag
  - locks in sill rabbets, sized and located to comply with refer manufacturer. Set blocks in thin course of compatible sealan
  - ge pressures stipulated by glass manufacturers for installing
  - s slightly less than final compressed thickness of tape.
  - ith proper orientation so that coatings face exterior or interior
  - age so gasket cannot walk out when installation is subjected to

  - inuously, but not necessarily in one continuous length. Do no
  - aming joints by applying tapes to heads and sills first, then
  - tapes at corners of opening with adjoining lengths butted to ant approved by tape manufacturer.
  - elease paper from tape until right before each glazing unit is i

  - of elastomeric sealant over exposed edge of tape.

glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements	B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and			
n the thickness indicated.	<ul> <li>B. Insert soft compression gasket between glass and name of fixed stop so it is securely in place with joints inner cut and bonded together at corners.</li> <li>C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft</li> </ul>	ק	$\square$	
ass Thickness for Exterior Lites: 6 mm. Tinted Glass: Provide same thickness for each tint color indicated throughout Project.	compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a		$\forall   \forall$	
annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully ss as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is	weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.		rchitects	
e heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance ticle. Where fully tempered float glass is indicated, provide fully tempered float glass.	D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to			)
	compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.	$\vdash$		
Float Glass: ASTM C1036, Type I, Class 2 (tinted), Quality-Q3. loat Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated,	<ul><li>E. Install gaskets so they protrude past face of glazing stops.</li><li>3.6 SEALANT GLAZING (WET)</li></ul>			اع
ear) or Class 2 (tinted) as indicated, Quality-Q3. rocess: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as	<ul> <li>A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until</li> </ul>			COM
ss otherwise indicated. I Float Glass: ASTM C1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless	sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.	ts		
d, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3. rocess: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as	<ul> <li>B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.</li> </ul>	ec	2 107	e C E C
ss otherwise indicated.	C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.	Architects	ay Drive - 61107 -8222	Элц
LASS Jnits: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace,	3.7 CLEANING AND PROTECTION	Ard	4000 Morsay Drive Rockford, IL 6110 (815) 229-8222	<b>Jarchitects</b>
g to ASTM E2190.	<ul><li>A. Immediately after installation remove nonpermanent labels and clean surfaces.</li><li>B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces</li></ul>	6	Q Q ∞ ₹	
m: Dual seal, with manufacturer's standard primary and secondary sealants. acer: Manufacturer's standard spacer material and construction	adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.	191		ר.
rm	1. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to			- MMM
olecular sieve or silica gel, or a blend of both.	coatings. C. Remove and replace glass that is damaged during construction period.			$\leq$
ANTS	D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.			
: Compatible with one another and with other materials they contact, including glass products, seals of ss units, and glazing channel substrates, under conditions of service and application, as demonstrated by	3.8 INSULATING GLASS SCHEDULE			
acturer based on testing and field experience. Somply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for	A. Glass Type: Low-E-coated, tinted insulating glass.			
ndicated and for conditions existing at time of installation.	<ol> <li>Basis-of-Design Product: Cardinal Glass Industries</li> <li>Overall Unit Thickness: 1 inch (25 mm) and or match existing for sloped glazing</li> </ol>			
osed Glazing Sealants: As indicated by manufacturer's designations. Neutral-curing silicone glazing sealant complying with ASTM C920, Type S, Grade NS, Class 100/50,	3. Minimum Thickness of Each Glass Lite: 6 mm.			
s	<ol> <li>Outdoor Lite: Tinted annealed, heat-strengthened, and or fully tempered float glass.</li> <li>Tint Color: Bronze.</li> </ol>			
S astic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and	6. Interspace Content: Argon.	$\vdash$		
ontact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass application indicated; and complying with ASTM C1281 and AAMA 800 for products indicated below:	<ol> <li>Indoor Lite: Clear annealed, heat-strengthened, and or fully tempered float glass.</li> <li>Safety glazing required.</li> </ol>			
tape, where indicated. tape, for glazing applications in which tape is subject to continuous pressure.	END OF SECTION 088000			
tape, for glazing applications in which tape is not subject to continuous pressure.				
r Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and AMA 800 for the following types:				
, Type 1, for glazing applications in which tape acts as the primary sealant.				
, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.				
US GLAZING MATERIALS products of material, size, and shape complying with referenced glazing standard, with requirements of				
glass and other glazing materials for application indicated, and with a proven record of compatibility with in installation.				
and Sealers: Types recommended by sealant or gasket manufacturer.				
ended by sealant or glass manufacturer.				
ended by sealant or glass manufacturer.				
ended by sealant or glass manufacturer. ng Sealant Backing: ASTM C1330, Type O (open-cell material), of size and density to control glazing				
otherwise produce optimum glazing sealant performance.				
OF GLAZING UNITS units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and				
s, and bite complying with written instructions of product manufacturer and referenced glazing mply with system performance requirements.			<u>н</u>	<u>o</u>
ermal movements from ambient and surface temperature changes acting on glass framing members and onents.			H	0 N
ure Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.				BONDING
grind vertical edges of butt-glazed monolithic lites to produce square edges with slight chamfers at and faces.				Ω.
polish exposed glass edges and corners.			<u>ک</u>	ACTO
ION			OMNER	ONTR/
glazing channels, and stops, with Installer present, for compliance with the following:				<u>ў</u>
g and installation tolerances, including those for size, squareness, and offsets at corners.				
functioning of weep systems. uired face and edge clearances.		Į		-
ing between joints of glass-framing members.				
Ilation only after unsatisfactory conditions have been corrected.		$\mathbf{V}$	1 T C T	ğ
annels and other framing members receiving glass immediately before glazing. Remove coatings not			$  \stackrel{\scriptscriptstyle\frown}{=} \stackrel{\scriptscriptstyle\frown}{\sim} \stackrel{\scriptscriptstyle\frown}{\sim} \stackrel{\scriptscriptstyle\frown}{\circ}  $	, Apr
ubstrates. units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior			$\begin{bmatrix} \mathbf{x} & \mathbf{y} \\ \mathbf{v} & \mathbf{o} & \mathbf{z} \\ \mathbf{v} & \mathbf{o} & \mathbf{z} \end{bmatrix}_{\overline{\mathbf{y}}}$	
y identifiable. Do not use materials that leave visible marks in the completed Work.			0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ERAL bined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless		<u>الإ</u>	$\mathbb{A}$	
uirements are indicated, including those in referenced glazing publications. es from damage during handling and installation. Remove damaged glass from Project site and legally		$\left \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array}\right $		
oject site. Damaged glass includes glass with edge damage or other imperfections that, when installed, s, impair performance, or impair appearance.		$ \breve{\Box} $		D D V
oint surfaces where required for adhesion of sealants, as determined by preconstruction testing. cks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise		$\succ$		r C
nanufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.			ц Ц	1
r glass lites where length plus width is larger than 50 inches (1270 mm).				5
s directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to ired face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain clearances and to comply with system performance requirements.			$\Pi D m$	ste
nch (3-mm) minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape,				<u>ă</u> С
slightly less than final compressed thickness of tape. cking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as			и — О — И	2
vriting by glass manufacturer and according to requirements in referenced glazing publications. ach series with uniform pattern, draw, bow, and similar characteristics.			$\frac{w}{w} \frac{w}{0}$	<u>י</u> ג
proper orientation so that coatings face exterior or interior as specified. ped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide		U,		Numbe
be so gaskets are driven into one side of channel to pressurize searant or gasket on opposite side, provide ge so gasket cannot walk out when installation is subjected to movement.		$  \downarrow$		oject
-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to om pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.		$\vdash$		à
fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly			Rev. Date	
stops.				
nuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening. ming joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by				-
ambs, then to heads and sills.				-
t approved by tape manufacturer. ease paper from tape until right before each glazing unit is installed.		ŝ		
f elastomeric sealant. in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets		۵ ۵۷		
ed to lock in place against faces of removable stops. Start gasket applications at corners and work toward is.		D D	Sheet No:	-
elastomeric sealant over exposed edge of tape.		() ()		
NG (DRY) gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for			6-1.	
gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for allation.		ហ៊		

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#### SECTION 01 2100 - ALLOWANCES

#### PART 1 - GENERAL

#### 1.01 SUMMAR

- A. Section includes administrative and procedural requirements governing allowances.
- B. Types of allowances include the following: 1. Unit-cost allowances.

#### 1.02 SELECTION AND PURCHASE

A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection, or purchase an delivery, of each product or system described by an allowance must be completed by the Architect and/or Owner to avoid delaying

- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work
- C. Purchase products and systems selected by Architect from the designated supplier.
- 1.03 SUBMITTALS
- A. Submit proposals for purchase of products or systems included in allowances in the form specified for Change Orders B. Submit invoices or delivery slips to show actual guantities of materials delivered to the site for use in fulfillment of each allowance. 2. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation
- as part of the allowance sum. D. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.
- 1.04 DELIVERY AND STORAG
- A. Arrange for delivery of products purchased under an allowance, from place of delivery to Project site, including any storag
- required during transport to the site
- B. Do not deliver such products until any facilities required for storage are in proper condition C. Promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.
- 1.05 UNIT-COST ALLOWANCES
- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include applicable taxes, freight, and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance
- . Unused Materials: Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, afte installation has been completed and accepted 1. If requested by Architect, retain and prepare unused material for storage by Owner. Deliver unused material to Owner's storage space as directed.

#### 1.06 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference betwee purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, includ reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.
- Include installation costs in purchase amount only where indicated as part of the allowance 2. If requested, prepare explanation and documentation to substantiate distribution of overhead costs and other markups.
- 3. Submit substantiation of a change in scope of Work, if any, claimed in Change Orders related to unit-cost allowances.
- 4. Owner reserves the right to establish the quantity of work-in-place by independent quantity survey, measure, or count. . Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Document whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit. 1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly show
- that the nature or extent of Work has changed from what could have been foreseen from information in the Contract 2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.

#### 1.07 SCHEDULE OF ALLOWANCES

A. Allowance No. 1: Unit-Cost Allowance: Include the sum of \$1,000.00 per thousand for brick."

#### END OF SECTION 012100

#### SECTION 04 0120.64 - BRICK MASONRY REPOINTING

### PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 0 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes:
- 1. Repointing joints with mortar. Repointing joints with sealan

#### 1.3 DEFINITIONS

#### 1.4 SEQUENCING AND SCHEDULING

- A. Order sand and gray Portland cement for pointing mortar immediately after approval of Samples. Take delivery of and store at Project site enough quantity to complete Project B. Work Sequence: Perform brick masonry repointing work in the following sequence, which includes work specified in this
- and other Sections:
- 1. Remove plant growth 2. Inspect masonry for open mortar joints and permanently or temporarily point them before cleaning to prevent the intrusion of water and other cleaning materials into the wall.
- Remove pain
- 4. Clean masonry.
- 5. Rake out mortar from joints surrounding masonry to be replaced and from joints adjacent to masonry repairs along 101nts.
- 6. Repair masonry, including replacing existing masonry with new masonry materials.
- 7. Rake out mortar from joints to be repointed
- 8. Point mortar and sealant joints.
- 9. After repairs and repointing have been completed and cured, perform a final cleaning to remove residues from this
- 10. Where water repellents are to be used on or near masonry work, delay application of these chemicals until after pointing and cleaning.

#### 1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes. 2. Include recommendations for product application and use.
- Include test data substantiating that products comply with requirements.
- B. Shop Drawings:
- 1. Include plans, elevations, sections, and locations of repointing work on the structure.
- 2. Show provisions for expansion joints or other sealant joints.
- C. Samples for Initial Selection: For the following:

- 1.6 INFORMATIONAL SUBMITTALS
- A. Qualification Data: For brick masonry repointing specialist including field supervisors and workers.

#### B. Quality-control program.

- 1.7 QUALITY ASSURANCE
- A. Brick Masonry Repointing Specialist Qualifications: Engage an experienced brick masonry repointing firm to perform work of this Section. Firm shall have completed work similar in material, design, and extent to that indicated for this Project with a record of successful in-service performance. Experience in only installing masonry is insufficient experienc for masonry repointing work.

- Field Supervision: Brick masonry repointing specialist firms shall maintain experienced full-time supervisors o Project site during times that brick masonry repointing work is in progress
- Quality-Control Program: Prepare a written quality-control program for this Project to systematically demonstrate the ability of personnel to properly follow methods and use materials and tools without damaging masonry. Include provisions for supervising performance and preventing damage.
- B DELIVERY, STORAGE, AND HANDLING
- A. Deliver packaged materials to Project site in manufacturer's original and unopened containers, labeled with manufacturer's name and type of products.
- B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materia that have become damp.
- Store hydrated lime in manufacturer's original and unopened containers. Discard lime if containers have been damaged of have been opened for more than two days.
- D. Store sand where grading and other required characteristics can be maintained and contamination avoided.

#### 1.9 FIELD CONDITION

- Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit repoint work to be performed according to product manufacturers' written instructions and specified requirements
- Temperature Limits: Repoint mortar joints only when air temperature is between 40 and 90 deg F (4 and 32 deg C) and i predicted to remain so for at least seven days after completion of the Work unless otherwise indicated.
- C. Cold-Weather Requirements: Comply with the following procedures for mortar-joint pointing unless otherwise indicated: When air temperature is below 40 deg F (4 deg C), heat mortar ingredients and existing masonry walls to produ temperatures between 40 and 120 deg F (4 and 49 deg C).
- When mean daily air temperature is below 40 deg F (4 deg C), provide enclosure and heat to maintain temperature above 32 deg F (0 deg C) within the enclosure for seven days after pointing.
- Hot-Weather Requirements: Protect mortar-joint pointing when temperature and humidity conditions produce excessive evaporation of water from mortar materials. Provide artificial shade and wind breaks, and use cooled materials as required to minimize evaporation. Do not apply mortar to substrates with temperatures of 90 deg F (32 deg C) and above unless otherwise indicated.

#### PART 2 - PRODUCTS

- 1 PERFORMANCE REOUIREMENTS
- A. Source Limitations: Obtain each type of material for repointing brick masonry (cement, sand, etc.) from single source with resources to provide materials of consistent quality in appearance and physical properties

#### MORTAR MATERIALS

- Portland Cement: ASTM C150/C150M, Type I or Type II, except Type III may be used for cold-weather construction white or gray, or both where required for color matching of mortar Provide cement containing not more than 0.60 percent total alkali when tested according to ASTM C114.
- B. Hydrated Lime: ASTM C207, Type S.
- Masonry Cement: ASTM C91/C91M.
- Manufacturers: Subject to compliance with requirements, provide products by the following: a. Lafarge North America Inc.

#### D. Mortar Cement: ASTM C1329/C1329M

- E. Mortar Sand: ASTM C144.
- 1. Match size, texture, and gradation of existing mortar sand as closely as possible. Blend several sands if necessary to achieve suitable match

#### F. Water: Potable.

- .3 ACCESSORY MATERIALS A. Sealant Materials:
  - Sealant manufacturer's standard elastomeric sealant(s) of base polymer and characteristics indicated below and according to applicable requirements in Section 079200 "Joint Sealants." b. Type: Single-component, nonsag urethane sealant.
- Colors: Provide colors of exposed sealants to match colors of mortar adjoining installed sealant unless otherwise Joint-Sealant Backing
- Cylindrical Sealant Backings: ASTM C1330, Type C (closed-cell material with a surface skin) or Type B (bicellular material with a surface skin), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance
- Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended in writing by sealant manufacturer for preventing sealant from adhering to rigid, inflexible, joint-filler materials or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.
- patible with mortar, joint primers, sealants, and surfaces adjace to joints; and that easily comes off entirely, including adhesive.
- D. Other Products: Select materials and methods of use based on the following, subject to approval of a mockup: Previous effectiveness in performing the work involved.

not measure by shovel; use known measure. Mix materials in a clean, mechanical batch mixer.

cementitious material limited to portland cement and lime masonry cement or mortar cement

cementitious material limited to portland cement and lime masonry cement or mortar cement

. Cover sills, ledges, and other projecting items to protect them from mortar droppings.

3. Immediately remove mortar splatters in contact with exposed masonry and other surfaces.

b. Cracks that can be penetrated 1/4 inch (6 mm) or more by a knife blade 0.027 inch (0.7 mm) thick.

- 2. Minimal possibility of damaging exposed surfaces.
- 3. Consistency of each application.

by a satisfactory history of performance.

Reinstall when repointing is complete.

MASONRY REPOINTING, GENERAL

All joints in areas indicated.

3 REPOINTING attached drawings in the Appendix

A. Rake out and repoint joints to the following extent:

3. Joints at locations of the following defects:

c. Cracks 1/16 inch (1.6 mm) or more in width and of any depth

f. Deterioration to point that mortar can be easily removed by hand, without tools.

Rake out joints as follows, according to procedures demonstrated in approved mockup:

d. Hollow-sounding joints when tapped by metal object.

e. Eroded surfaces 1/4 inch (6 mm) or more deep.

. Joints filled with substances other than mortar.

B. Do not rake out and repoint joints where not required.

2. Joints indicated as sealant-filled joints.

a. Holes and missing mortar.

Do not use admixtures in mortar unless otherwise indicated.

A. Prevent mortar from staining face of surrounding masonry and other surfaces.

2. Keep wall area wet below pointing work to discourage mortar from adhering.

1. Provide temporary rain drainage during work to direct water away from building.

D. Mixes: Mix mortar materials in the following proportions:

.4 MORTAR MIXES

Architect's approval.

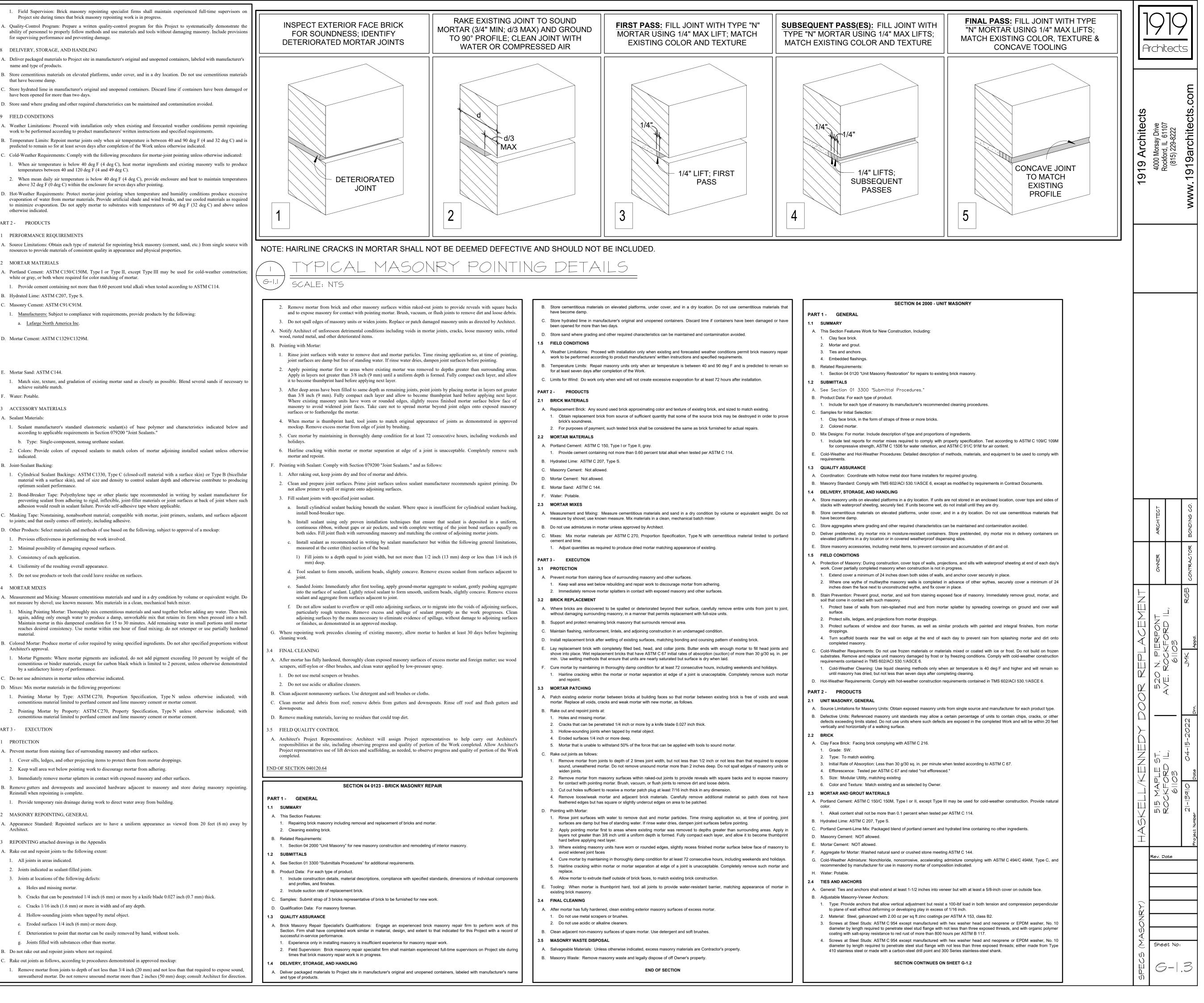
PART 3 - EXECUTION

3.1 PROTECTION

Architect.

4. Uniformity of the resulting overall appearance.

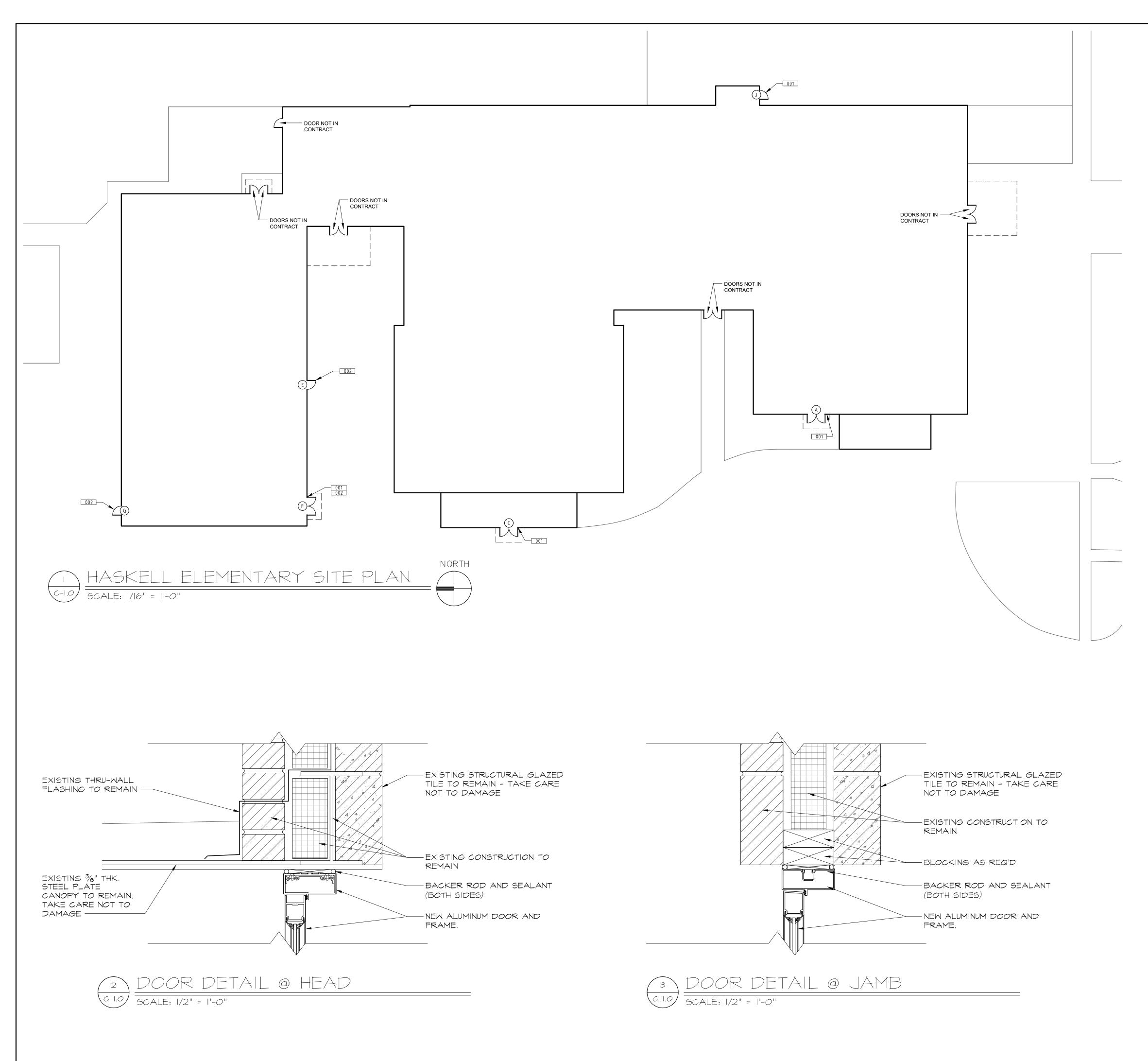
5. Do not use products or tools that could leave residue on surfaces.



2.5 EMBEDDED FLASHING MATERIALS     A. Flexible Flashing: Use the following unless otherwise indicated:	C. Final Cleaning: After mortar for new masonry is thoroughly set and cured, clean exposed masonry as follows:
<ul> <li>5. Rubberized-Asphalt Flashing: Composite flashing product consisting of a pliable, adhesive rubberized-asphalt compound, bonded to a high-density, cross-laminated polyethylene film to produce an overall thickness of not less than 0.030 inch.</li> <li>a. Accessories: Provide preformed corners, end dams, other special shapes, and seaming materials produced by flashing manufacturer.</li> </ul>	<ol> <li>Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.</li> <li>Clean masonry with specified cleaner applied according to manufacturer's written instructions.</li> <li>Protect adjacent surfaces from contact with cleaner by covering with liquid strippable masking agent or polyethylene film and waterproof masking tape.</li> </ol>
<ul><li>6. Where flashing is partly exposed and is indicated to terminate at the wall face, use metal drip edge.</li><li>B. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by</li></ul>	<ol> <li>Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.</li> <li>Clean brick by bucket-and-brush hand-cleaning method described in BIA Technical Notes 20.</li> </ol>
<ul><li>flashing manufacturer for bonding flashing sheets to each other and to substrates.</li><li>C. Termination Bars for Flexible Flashing: Aluminum bars 1/8 inch by 1 inch or stainless-steel sheet 0.019 inch by 1-1/2 inches with a 3/8 inch sealant flange at top.</li></ul>	6. Clean stone trim in compliance with stone supplier's written instructions. END OF SECTION
2.6 MISCELLANEOUS MASONRY ACCESSORIES     A. Weeps: Use one of the following:	
<ol> <li>Round Plastic Weep/Vent Tubing: Medium-density polyethylene, 3/8-inch OD by 4 inches long.</li> <li>Rectangular Plastic Weep/Vent Tubing: Clear butyrate, 3/8 by 1-1/2 by 3-1/2 inches long.</li> </ol>	Section 07 92 00 - Joint Sealants
<ol> <li>Cellular Plastic Weep/Vent: One-piece, flexible extrusion made from UV-resistant polypropylene copolymer, full height and width of head joint and depth 1/8 inch less than depth of outer wythe, in color selected from manufacturer's standard.</li> </ol>	PART 1 - GENERAL
<ol> <li>Mesh Weep/Vent: Free-draining mesh; made from polyethylene strands, full height and width of head joint and depth 1/8 inch less than depth of outer wythe; in color selected from manufacturer's standard.</li> <li>Aluminum Weep Hole/Vent: Units made from sheet aluminum, designed to fit into a head joint and consisting of a vertical</li> </ol>	<ul><li>1.1 RELATED DOCUMENTS</li><li>A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01</li></ul>
5. Autinium weep Hole/Vent: Units made from sheet autinium, designed to fit into a head joint and consisting of a vertical channel, with louvers stamped in web and with a top flap to keep mortar out of the head joint; factory primed and painted before installation to comply with Section 099113 "Exterior Painting" in color selected by Architect.	Specification Sections, apply to this Section.
<ol> <li>Vinyl Weep Hole/Vent: Units made from flexible PVC, designed to fit into a head joint and consisting of a louvered vertical leg, flexible wings to seal against ends of masonry units, and a top flap to keep mortar out of the head joint; in color selected by Architect.</li> </ol>	1.2     SUMMARY       A. Base Bid:
<ul> <li>B. Cavity Drainage Material: Free-draining mesh, made from polymer strands that will not degrade within the wall cavity.</li> <li>7. Configuration: Provide one of the following:</li> </ul>	<ol> <li>Silicone joint sealants.</li> <li>Butyl joint sealants.</li> </ol>
a. Strips, full depth of cavity and 10 inches high, with dovetail-shaped notches 7 inches deep that prevent clogging with mortar droppings.	1.3 ACTION SUBMITTALS
<ul> <li>Strips, not less than 3/4 inch thick and 10 inches high, with dimpled surface designed to catch mortar droppings and prevent weep holes from clogging with mortar.</li> </ul>	A. Product Data: For each joint-sealant product.
<ul> <li>2.7 MASONRY CLEANERS</li> <li>A. Proprietary Acidic Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains, efflorescence, and other new construction stains from new masonry without discoloring or damaging masonry surfaces. Use product expressly</li> </ul>	<ul> <li>B. Samples for Initial Selection: Manufacturer's color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.</li> </ul>
<ul> <li>approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.</li> <li><u>Manufacturers:</u> Subject to compliance with requirements, available manufacturers offering products that may be incorporated</li> </ul>	C. Samples for Verification: For each kind and color of joint sealant required, provide Samples with joint sealants in 1/2-inch- (13-mm-) wide joints formed between two 6-inch- (150-mm-) long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.
into the Work include, but are not limited to <u>PROSOCO, Inc</u> . 2.8 MORTAR MIXES	D. Joint-Sealant Schedule: Include the following information:
A. General: Do not use frozen admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.	<ol> <li>Joint-sealant application, joint location, and designation.</li> <li>Joint-sealant manufacturer and product name.</li> </ol>
<ol> <li>Do not use frozen materials.</li> <li>Do not use calcium chloride in mortar or grout.</li> </ol>	<ol> <li>Joint-sealant formulation.</li> <li>Joint-sealant color.</li> </ol>
<ol> <li>Use portland cement-lime mortar.</li> <li>Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.</li> </ol>	1.4 INFORMATIONAL SUBMITTALS
<ul> <li>B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.</li> </ul>	A. Qualification Data: For qualified testing agency.
C. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion Specification, Type N.	B. Product Test Reports: For each kind of joint sealant, for tests performed by manufacturer and witnessed by a qualified testing agency.
PART 3 - EXECUTION 3.1 EXAMINATION	<ul> <li>C. Preconstruction Laboratory Test Reports: From sealant manufacturer, indicating the following:</li> <li>1. Materials forming joint substrates and joint-sealant backings have been tested for compatibility and adhesion with joint</li> </ul>
A. Examine conditions for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.	<ul><li>sealants.</li><li>2. Interpretation of test results and written recommendations for primers and substrate preparation are needed for</li></ul>
<ol> <li>Verify that foundations are within tolerances specified.</li> <li>B. Proceed with installation only after unsatisfactory conditions have been corrected.</li> </ol>	adhesion.
<ul><li>3.2 INSTALLATION, GENERAL</li><li>A. Thickness: Build cavity and composite walls and other masonry construction to full thickness shown. Build single-wythe walls to</li></ul>	<ul><li>1.5 QUALITY ASSURANCE</li><li>A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.</li></ul>
actual widths of masonry units, using units of widths indicated. B. Use full-size units without cutting if possible. If cutting is required:	<ul> <li>B. Product Testing: Test joint sealants using a qualified testing agency.</li> <li>1. Testing Agency Qualifications: Qualified according to ASTM C1021 to conduct the testing indicated.</li> </ul>
<ol> <li>Cut units with motor-driven saws.</li> <li>Provide clean, sharp, unchipped edges.</li> </ol>	1.6 FIELD CONDITIONS
<ol> <li>Allow units to dry before laying unless wetting of units is specified.</li> <li>Install cut units with cut surfaces and, where possible, cut edges concealed.</li> </ol>	A. Do not proceed with installation of joint sealants under the following conditions:
<ul> <li>C. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures. Mix units from several pallets or cubes as they are placed.</li> </ul>	<ol> <li>When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F (5 deg C).</li> </ol>
<ul> <li>D. Matching Existing Masonry: Match coursing, pattern and joint widths of existing masonry.</li> <li>E. Wetting of Brick: Wet brick before laying if initial rate of absorption exceeds 30 g/30 sq. in. per minute when tested per ASTM C 67. Allow units to absorb water so they are damp but not wet at time of laying.</li> </ul>	<ol> <li>When joint substrates are wet.</li> <li>Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.</li> </ol>
3.3 TOLERANCES	4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.
<ul> <li>A. Dimensions and Locations of Elements:</li> <li>1. For dimensions in cross section or elevation, do not vary by more than plus 1/2 inch or minus 1/4 inch.</li> <li>2. For location of elements in plan, do not vary form that indicated by more than plus an minus 1/2 inch</li> </ul>	<ul><li>1.7 WARRANTY</li><li>A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and</li></ul>
<ol> <li>For location of elements in plan, do not vary from that indicated by more than plus or minus 1/2 inch.</li> <li>For location of elements in elevation, do not vary from that indicated by more than plus or minus 1/4 inch in a story height or 1/2 inch total.</li> </ol>	<ol> <li>other requirements specified in this Section within specified warranty period.</li> <li>Warranty Period: One year from date of Substantial Completion.</li> </ol>
<ul> <li>B. Lines and Levels:</li> <li>1. For bed joints and top surfaces of bearing walls, do not vary from level by more than 1/4 inch in 10 feet, or 1/2-inch maximum.</li> </ul>	B. Special Manufacturer's Warranty: Manufacturer agrees to furnish joint sealants to repair or replace those joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
<ol> <li>For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2-inch maximum.</li> </ol>	<ol> <li>Warranty Period: Five years from date of Substantial Completion.</li> <li>C. Special warranties specified in this article exclude deterioration or failure of joint sealants from the following:</li> </ol>
<ol> <li>For vertical lines and surfaces, do not vary from plumb by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2-inch maximum.</li> <li>For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary</li> </ol>	1. Movement of the structure caused by stresses on the sealant exceeding sealant manufacturer's written specifications for
from plumb by more than 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2-inch maximum. 5. For lines and surfaces, do not vary from straight by more than 1/4 inch in 10 feet, 3/8 inch in 20 feet, or 1/2-inch maximum.	<ol> <li>sealant elongation and compression.</li> <li>Disintegration of joint substrates from causes exceeding design specifications.</li> </ol>
<ol> <li>For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 feet or 1/2-inch maximum.</li> <li>For faces of adjacent exposed masonry units, do not vary from flush alignment by more than 1/16 inch except due to warpage of masonry units within tolerances specified for warpage of units.</li> </ol>	<ol> <li>Mechanical damage caused by individuals, tools, or other outside agents.</li> <li>Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.</li> </ol>
<ul> <li>C. Joints:</li> <li>1. For bed joints, do not vary thickness match existing by more than plus or minus 1/8 inch, with a maximum thickness limited to</li> </ul>	PART 2 - PRODUCTS
<ol> <li>For bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch.</li> <li>For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch.</li> </ol>	2.1 JOINT SEALANTS, GENERAL
<ol> <li>For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch. Do not vary from adjacent bed-joint and head-joint thicknesses by more than 1/8 inch.</li> </ol>	A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
<ul><li>3.4 LAYING MASONRY WALLS</li><li>A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of</li></ul>	B. Colors of Exposed Joint Sealants: As indicated by manufacturer's designations.
openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations. B. Bond Pattern for Exposed Masonry: Match existing; do not use units with less-than-nominal 4-inch horizontal face dimensions at	2.2 SILICONE JOINT SEALANTS
<ul> <li>C. Stopping and Resuming Work: Stop work by stepping back units in each course from those in course below; do not tooth. When</li> </ul>	<ul> <li>A. Silicone, S, NS, 35, NT: Single-component, nonsag, plus 35 percent and minus 35 percent movement capability. nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 35, Use NT.</li> </ul>
resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar, and wet brick if required before laying fresh masonry.	<ol> <li><u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:</li> <li><u>Dow Corning Corporation</u>.</li> </ol>
<ul><li>3.5 MORTAR BEDDING AND JOINTING</li><li>A. Lay CMUs with face shells bedded in mortar and make head joints of depth equal to bed joints.</li></ul>	<ul> <li>b. <u>GE Construction Sealants; Momentive Performance Materials Inc.</u></li> <li>c. Pecora</li> </ul>
B. Lay solid masonry units and hollow brick with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.	d. Tremco
<ul> <li>C. Set cast-stone trim units in full bed of mortar with full vertical joints. Fill dowel, anchor, and similar holes.</li> <li>1. Clean soiled surfaces with fiber brush and soap powder and rinse thoroughly with clear water.</li> </ul>	2.3 BUTYL JOINT SEALANTS
<ol> <li>Allow cleaned surfaces to dry before setting.</li> <li>Wet joint surfaces thoroughly before applying mortar.</li> </ol>	A. Butyl-Rubber-Based Joint Sealants: ASTM C1311.
<ul><li>4. Rake out mortar joints for pointing with sealant.</li><li>D. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.</li></ul>	<ol> <li><u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:         <ul> <li><u>Bostik, Inc.</u></li> </ul> </li> </ol>
<ul> <li>3.6 CAVITY WALLS</li> <li>A. Keep cavities clean of mortar droppings and other materials during construction. Bevel beds away from cavity, to minimize mortar</li> </ul>	<ul> <li>b. <u>Pecora Corporation</u>.</li> <li>c. Tremco</li> </ul>
<ul> <li>protrusions into cavity. Do not attempt to trowel or remove mortar fins protruding into cavity.</li> <li>B. Cavity Wall Insulation: Fit courses of insulation between wall ties and other confining obstructions in cavity, with edges butted tightly both ways. Press units firmly against inside wythe of masonry or other construction as shown.</li> </ul>	
<ol> <li>Fill cracks and open gaps in insulation with crack sealer compatible with insulation.</li> <li>C. Anchor masonry veneers to wall stud framing with masonry-veneer anchors to comply with the following requirements:</li> </ol>	<ul><li>2.4 MISCELLANEOUS MATERIALS</li><li>A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates</li></ul>
<ol> <li>Fasten screw-attached anchors through sheathing to wall framing with metal fasteners of type indicated. Use two fasteners unless anchor design only uses one fastener.</li> </ol>	indicated, as determined from preconstruction joint-sealant-substrate tests and field tests. B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials,
<ol> <li>Locate anchor sections to allow maximum vertical differential movement of ties up and down.</li> <li>Space anchors as indicated, but not more than 16 inches o.c. vertically and 25 inches o.c. horizontally, with not less than one</li> </ol>	free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
<ul> <li>anchor for each 2.67 sq. ft. of wall area. Install additional anchors within 12 inches of openings and at intervals, not exceeding 36 inches, around perimeter.</li> <li>4. Space anchors as indicated, but not more than 18 inches o.c. vertically and horizontally. Install additional anchors within 12</li> </ul>	PART 3 - EXECUTION
<ul> <li>inches of openings and at intervals, not exceeding 24 inches, around perimeter.</li> <li>FLASHINGS AND VENTS</li> </ul>	3.1 EXAMINATION
<ul> <li>A. General: Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to downward flow of water in wall, and where indicated.</li> </ul>	A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting performance of the Work.
<ul> <li>B. Install flashing as follows unless otherwise indicated:</li> <li>1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within</li> </ul>	B. Proceed with installation only after unsatisfactory conditions have been corrected.
mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer.	<ul><li>3.2 PREPARATION</li><li>A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant</li></ul>
<ol> <li>Extend flashing through veneer, across airspace behind veneer, and up face of sheathing at least 8 inches. Fasten upper edge of flexible flashing to sheathing.</li> <li>At lintels and shelf angles, extend flashing a minimum of 6 inches into masonry at each end. At heads and sills, extend</li> </ol>	<ol> <li>manufacturer's written instructions and the following requirements:</li> <li>Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust,</li> </ol>
<ul><li>flashing 6 inches at ends and turn up not less than 2 inches to form end dams.</li><li>Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch back from outside face</li></ul>	paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
of wall, and adhere flexible flashing to top of metal drip edge. C. Install weep holes in exterior wythes and veneers in head joints of first course of masonry immediately above embedded flashing.	<ol> <li>Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:</li> </ol>
<ol> <li>Use specified weep/cavity vent products to form weep holes.</li> <li>Space weep holes 24 inches o.c. unless otherwise indicated.</li> </ol>	<ul><li>a. Metal.</li><li>3.3 INSTALLATION OF JOINT SEALANTS</li></ul>
<ul> <li>3.8 POINTING, AND CLEANING</li> <li>A. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling</li> </ul>	<ul> <li>3.3 INSTALLATION OF JOINT SEALANTS</li> <li>A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.</li> </ul>
<ul><li>joints.</li><li>B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance.</li></ul>	<ul><li>B. Sealant Installation Standard: Comply with recommendations in ASTM C1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.</li></ul>

	C. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
	1. Place sealants so they directly contact and fully wet joint substrates.
	2. Completely fill recesses in each joint configuration.
olyethylene film and	3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
noroughly with clear	<ul> <li>D. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.</li> </ul>
	1. Remove excess sealant from surfaces adjacent to joints.
	<ol> <li>Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.</li> </ol>
	3. Provide concave joint profile per Figure 8A in ASTM C1193 unless otherwise indicated.
	4. Provide flush joint profile at locations indicated on Drawings according to Figure 8B in ASTM C1193.
	<ol> <li>Provide recessed joint configuration of recess depth and at locations indicated on Drawings according to Figure 8C in ASTM C1193.</li> </ol>
ns and Division 01	a. Use masking tape to protect surfaces adjacent to recessed tooled joints.
	3.4 CLEANING
	A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.
	3.5 PROTECTION
	A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantia Completion. If, despite such protection, damage or deterioration occurs, cut out, remove, and repair damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.
ng the full range of	3.6 JOINT-SEALANT SCHEDULE
	A. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces.
ealants in 1/2-inch- earance of exposed	1. Joint Locations:
	a. Joints between metal panels.
	b. Joints between different materials listed above.
	c. Other joints as indicated on Drawings.
	2. Joint Sealant: Silicone S, NS, 35, NT.
	3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
	END OF SECTION 079200

	HASKELL/KENNEDY I	KENNEDY DOOR REPLACEMENT			1919 Architects
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### KEYNOTES

(THIS SHEET ONLY)

DOID PROXIMITY READER/CONTACT SWITCHES TO BE REMOVED AND REINSTALLED BY OTHERS

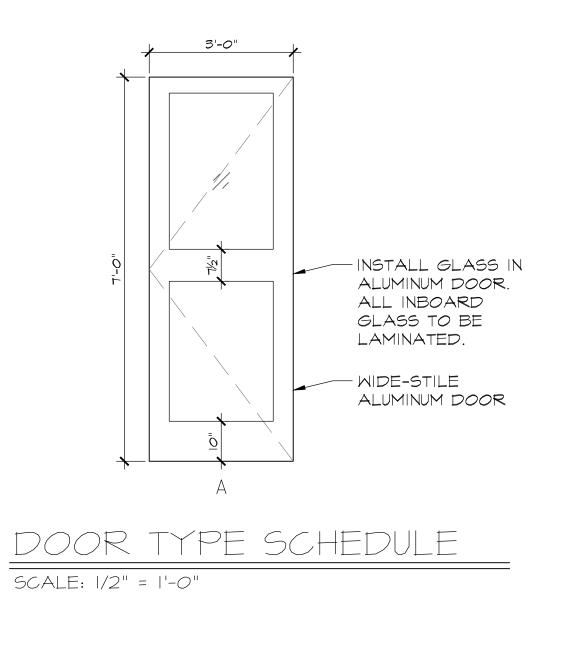
102 NEW DOOR TO RECEIVE FROSTED GLASS. DOOR CONTACT SWITCHES BY OTHERS.

## LEGEND OF SYMBOLS

(#) DOOR TAG - SEE DOOR SCHEDULES AND DETAILS ON THIS SHEET

# DOOR SCHEDULE

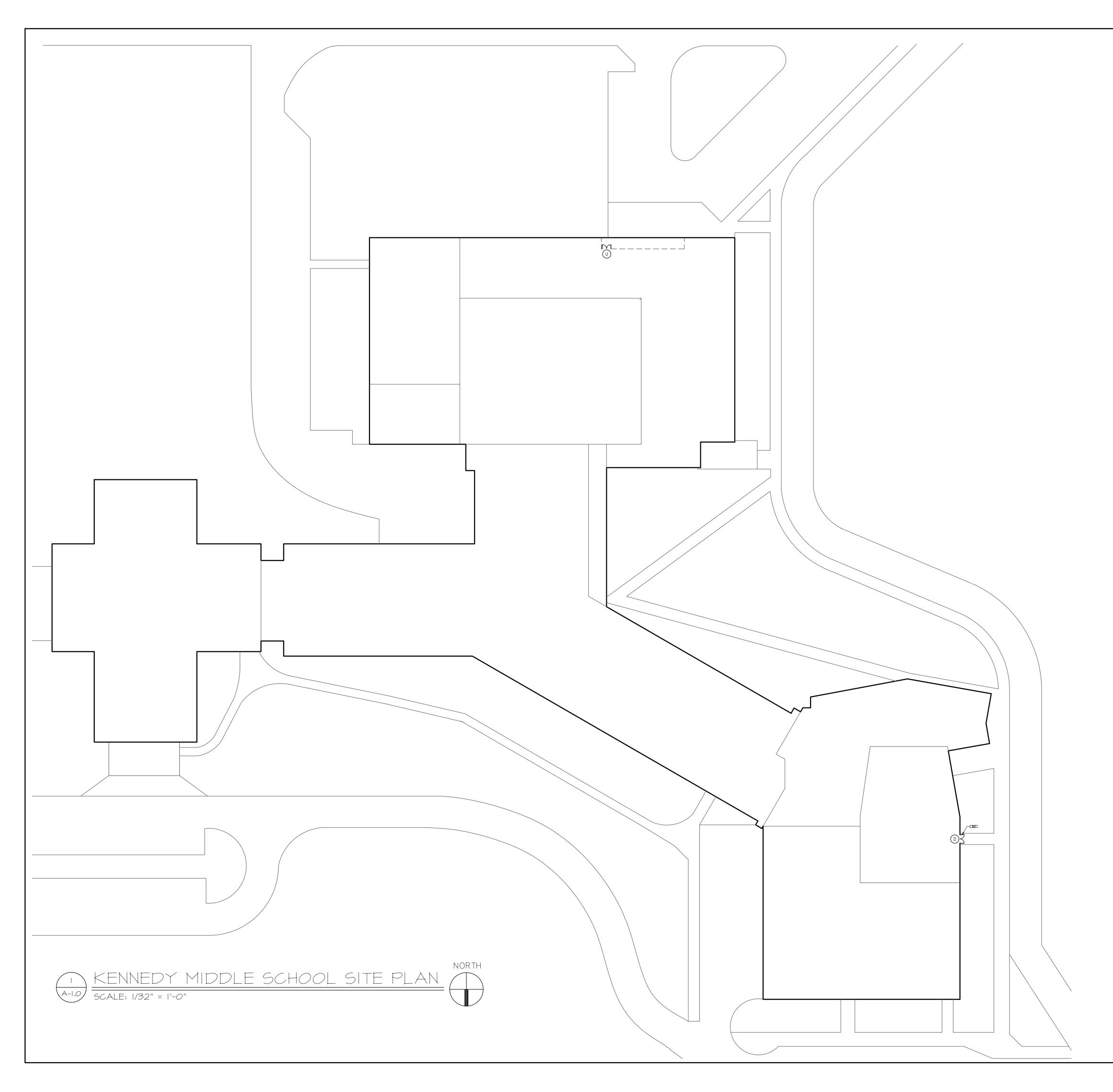
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E	A	3' × 7'	SET #04	SEE SHEET G-1.2 FOR MORE INFO.
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G	A	3' x 7'	SET #04	SEE SHEET G-1.2 FOR MORE INFO.
L	A	3' × 7'	SET #03	SEE SHEET G-1.2 FOR MORE INFO.



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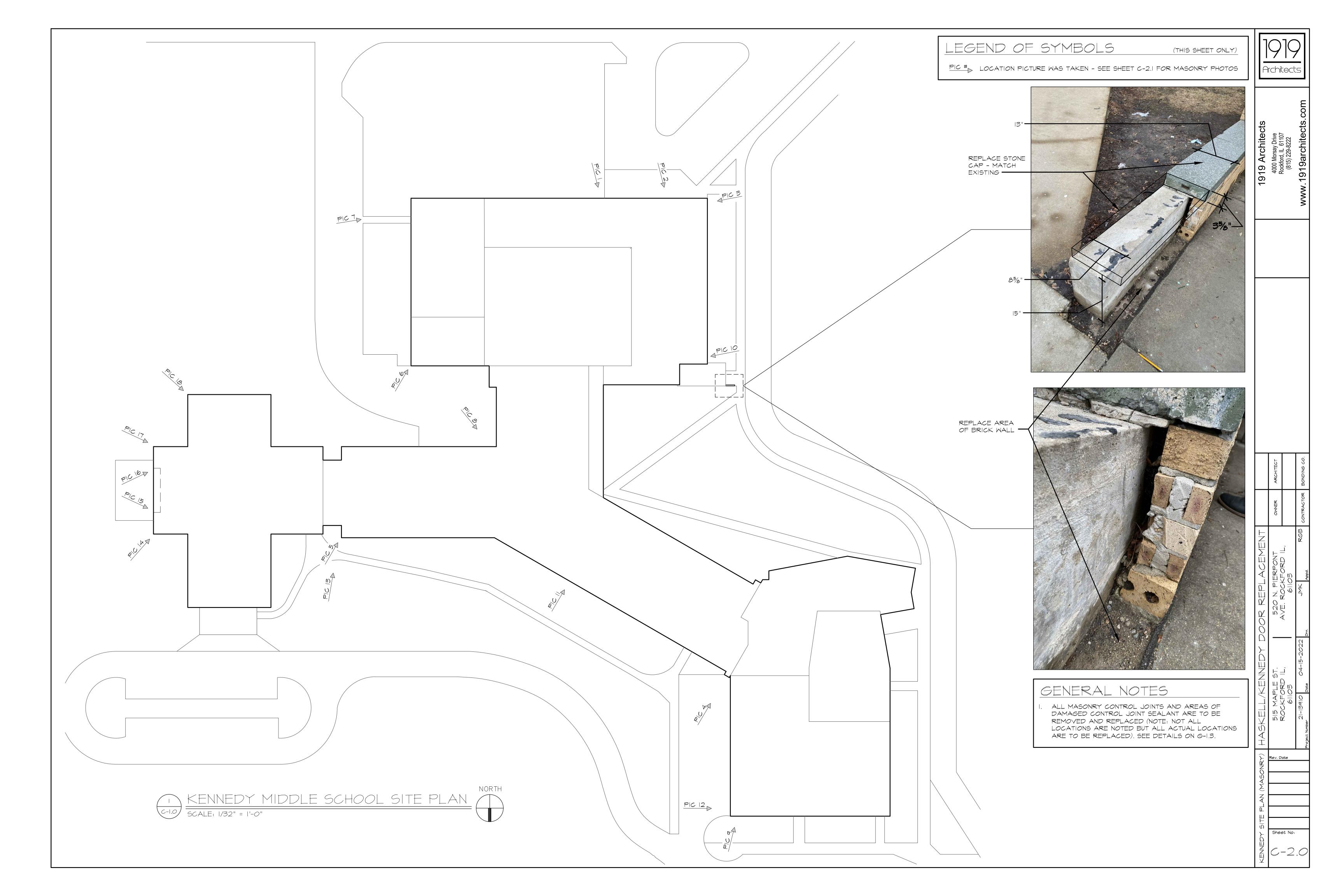
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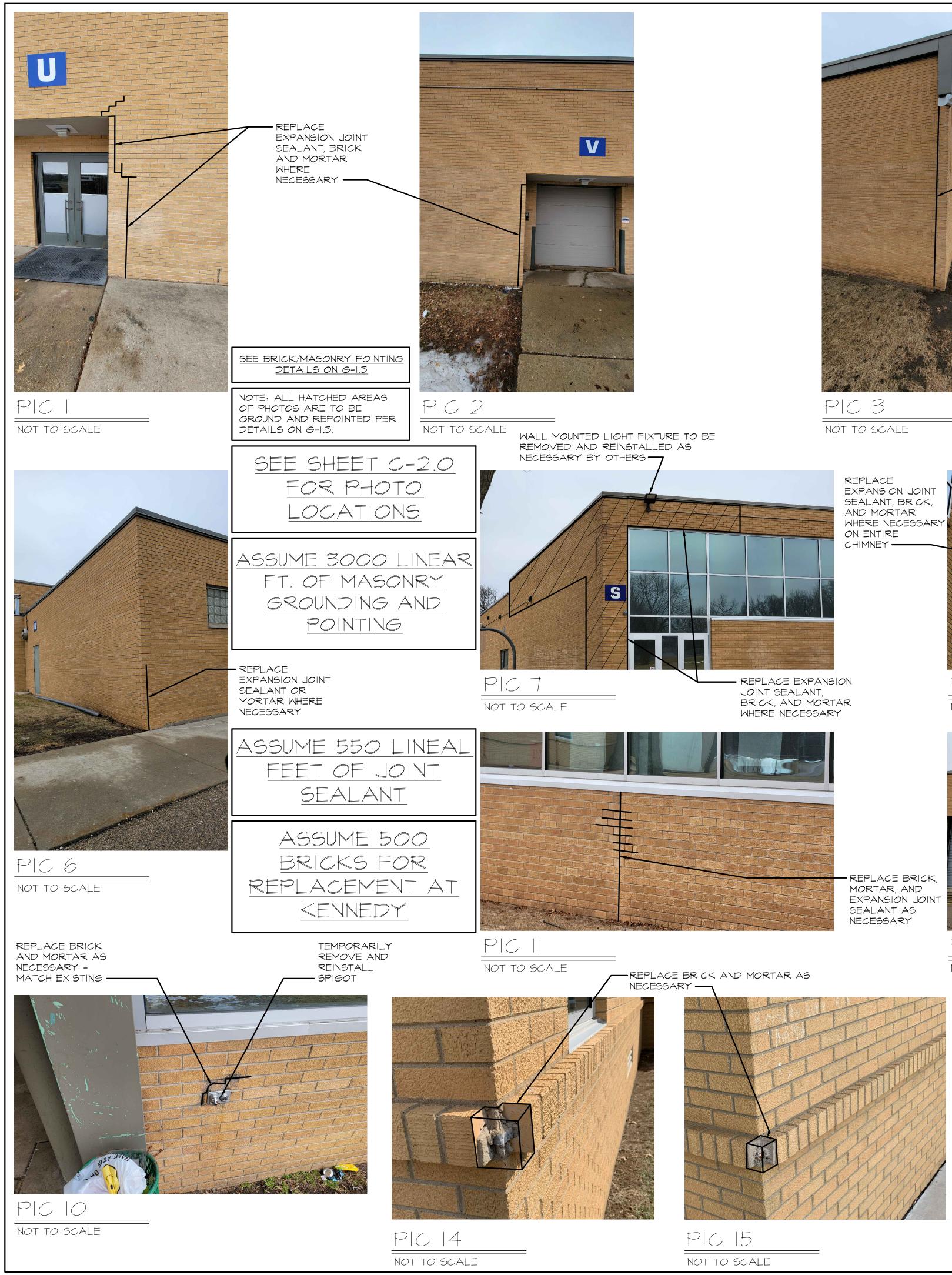
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TEMPORARILY REMOVE AND REINSTALL WALL-MOUNTED SECURITY CAMERA AS NECESSARY FOR COMPLETION OF WORK IN THIS AREA. (BY OTHERS)

REPLACE EXPANSION JOINT SEALANT, BRICK AND MORTAR WHERE NECESSARY -



PIC 4

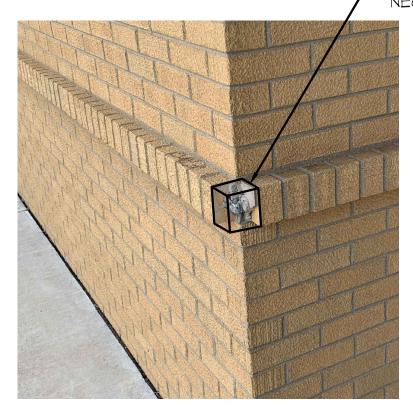
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PIC 8 NOT TO SCALE



PIC 12 NOT TO SCALE

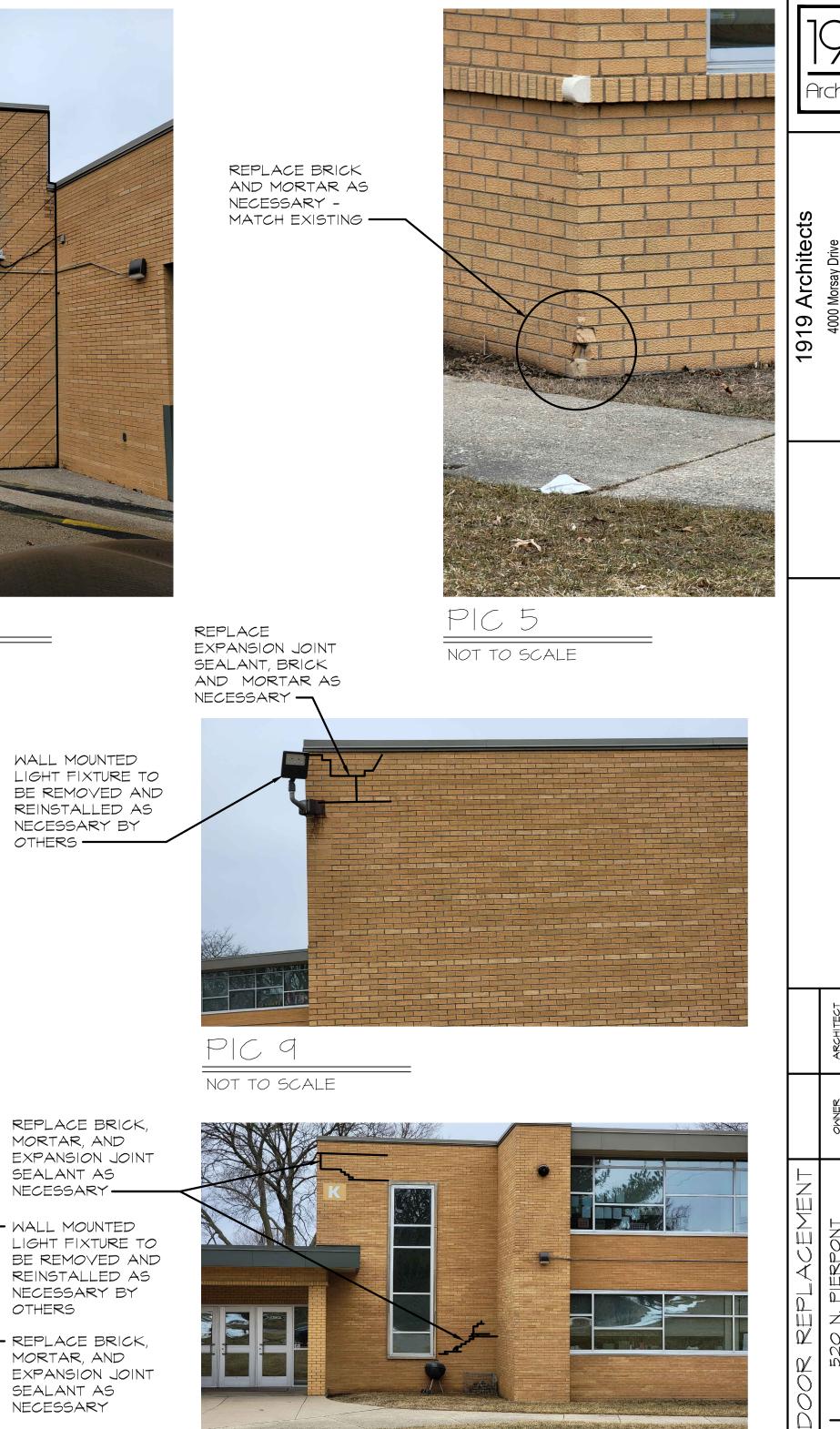


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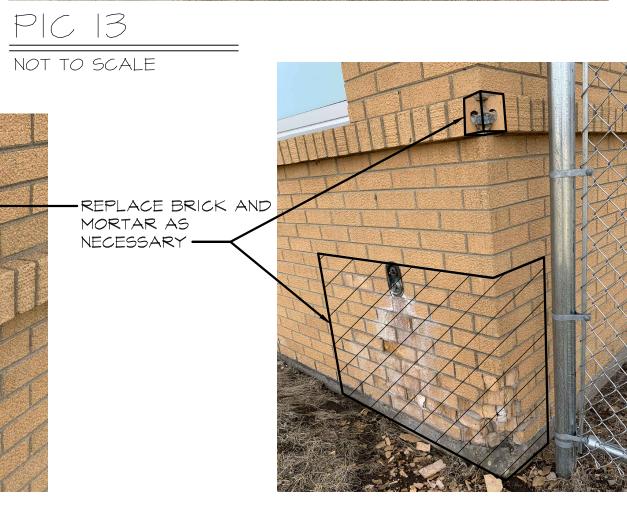
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PIC 13

- REPLACE BRICK AND MORTAR AS NECESSARY



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