

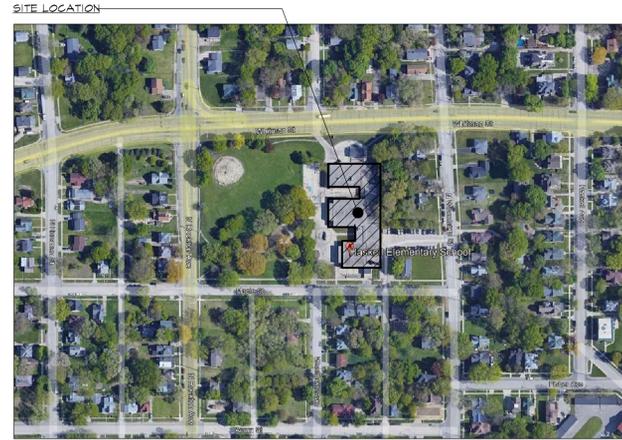
# IFB 23-22 HASKELL AND KENNEDY SCHOOLS DOOR REPLACEMENT

1919  
Architects

## HASKELL ELEMENTARY:

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

**ARCHITECT:** 1919 ARCHITECTS  
4000 MORSAY DRIVE  
ROCKFORD, IL 61107



1  
6-1.0 HASKELL ELEMENTARY SITE PLAN  
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



2  
6-1.0 KENNEDY ELEMENTARY SITE PLAN  
SCALE: NTS  
RPS #2236



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### 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 Ill. Adm. Code 400.) and the Illinois Accessibility

Signed: \_\_\_\_\_  
Architect/Engineer  
ILLINOIS REGISTRATION NO.: 001-015480  
Exp. Date: 11/30/22  
PROFESSIONAL DESIGN FIRM NO.: 184.003452

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ARCHITECT	OWNER	CONTRACTOR	BIDDING CO.
HASKELL/KENNEDY DOOR REPLACEMENT		520 N. PIERPONT AVE. ROCKFORD IL, 61103	JMK Appr.
515 MAPLE ST. ROCKFORD IL, 61103	21-13910 Date	09-12-2023 Date	

COVER SHEET	Rev. Date	Sheet No.
		G-1.0

SECTION 01 2100 - ALLOWANCES

PART 1 - GENERAL
1.01 SUMMARY
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 and delivery of each product or system described by an allowance must be completed by the Architect and/or Owner to avoid delaying the Work.
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 quantities of materials delivered to the site for use in fulfillment of each allowance.
C. 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 STORAGE
A. Arrange for delivery of products purchased under an allowance, from place of delivery to Project site, including any storage 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 handling 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.
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.
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 between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include 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.
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.
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.
1. 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.
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 08 4213 - ALUMINUM-FRAMED ENTRANCE

PART 1 - GENERAL
1.01 SUMMARY
A. Section Features:
1. Exterior manual-swing entrance doors and door-frame units.
2. Factory-installed hardware for entrances.
B. Related Requirements:
1. Section 06 1000 "Rough Carpentry" for framing to support aluminum entrances.
2. Section 08 7100 "Door Hardware" for hardware items not specified in this Section.
3. Section 08 8000 "Glazing" for glass in entrance assemblies.
1.02 SUBMITTALS
A. Product Data: For each type of product.
1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
B. Shop Drawings: For aluminum-framed entrances. Include plans, elevations, sections, full-size details, and attachments to other work.
1. Include details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the exterior.
2. Show connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
1.03 QUALITY ASSURANCE
A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
PART 2 - "Not Typical" PRODUCTS
2.01 ENTRANCE DOOR SYSTEMS
A. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing operation.
1. 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 incorporate concealed tie rods.
2. Door Design: As indicated.
3. Glazing Stops and Gaskets: Snap-on, extruded-aluminum stops and preformed gaskets.
a. Provide nonremovable glazing stops on outside of door.
4. Framing Members: Manufacturer's standard extruded aluminum, minimum 0.125 inch thick and reinforced as required to support imposed loads.
1. Nominal Size: 1-3/4 by 4-1/2 inches except as indicated otherwise on Drawings.
C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.
2.02 ENTRANCE DOOR HARDWARE
A. Preparation: Prepare doors for hardware items specified in Section 08 7100 "Door Hardware."
B. Pulls: Manufacturer's standard ADA-compliant tubular offset-D pull, finished to match door.
C. Butt Hinges: BHMA A156.1, Grade 1, radius corner.
1. Nonremovable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while entrance door is closed.
2. Exterior Hinges: Stainless steel, with stainless-steel pin.
3. Quantities: Provide three hinges per leaf.
D. Weather Stripping: Manufacturer's standard replaceable components.
1. Compression Type: Made of ASTM D 2000, molded neoprene, or ASTM D 2287, molded PVC.
2. Sliding Type: AAMA 1017.02, made of wood, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.
E. Other Hardware Items: As specified in Section 08 7100 "Door Hardware."
2.03 GLAZING
A. Glazing: Comply with Section 08 8000 "Glazing."
B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.
C. Glazing Sealants: As recommended by manufacturer.
2.04 ACCESSORIES
A. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
1. Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.
2. Reinforce members as required to receive fastener threads.
2.05 FABRICATION
A. Form or extrude aluminum shapes before finishing.
B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
C. Fabricate components that, when assembled, have the following characteristics:
1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fitted joints with ends coped or mitered.
3. Physical and thermal isolation of glazing from framing members.
4. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
D. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
E. Entrance Doors: Reinforce doors as required for installing entrance door hardware.
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.
G. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.
2.06 ALUMINUM FINISHES
A. Clear Anodic Finish: AAMA 611, or thicker.
B. Color Anodic Finish: AAMA 611, or thicker.
1. Color.
2. Color.
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.
1. Color and Gloss.
D. High-Performance Organic Finish: Two-coat fluoropolymer finish complying with and containing not less than percent resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturer's written instructions.
1. Color and Gloss.
E. High-Performance Organic Finish: -coat fluoropolymer finish complying with AAMA 2605 and containing not less than percent 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 manufacturer's written instructions.
1. Color and Gloss.
PART 3 - EXECUTION
3.01 EXAMINATION
A. Examine areas, with installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
B. Proceed with installation only after unsatisfactory conditions have been corrected.
3.02 INSTALLATION
A. General:
1. Comply with manufacturer's written instructions.
2. Do not install damaged components.
3. Fit joints to produce hairline joints free of burrs and distortion.
4. Rigidly secure nonmovement joints.
5. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
6. Seal perimeter and other joints watertight unless otherwise indicated.
B. Metal Protection:
1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or installing nonconductive spacers.
2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
C. Set continuous sill members and flashing in full sealant bed as specified in Section 07 9200 "Joint Sealants" to produce watertight installation.
D. Install components plumb and true in alignment with established lines and grades.
E. Install glazing as specified in Section 08 8000 "Glazing."
F. Entrance Doors: Install doors to produce smooth operation and tight fit at contact points.
1. Exterior Doors: Install to produce watertight enclosure and tight fit at weather stripping.
2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware according to entrance door hardware manufacturer's written instructions using concealed fasteners to greatest extent possible.
3.03 "Not Typical" FIELD QUALITY CONTROL
A. Testing Agency: a qualified testing agency to perform tests and inspections.
B. Field Quality-Control Testing: Perform the following test on aluminum-framed entrances.
3. Water-Spray Test: Before installation of interior finishes has begun, areas designated by Architect shall be tested according to AAMA 501.2 and shall not evidence water penetration.
C. Aluminum-framed entrances will be considered defective if they do not pass tests and inspections.
D. Prepare test and inspection reports.
END OF SECTION

Section 08 88 00 - Glazing

PART 1 - GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
1.2 SUMMARY
A. Section includes:
1. Glass for windows, doors, storefront framing, glazed curtain walls, and sloped glazing.
2. Glazing sealants and accessories.
B. Related Requirements:
1. Section 057300 "Decorative Metal Railings" for glazing in railings.
2. Section 084113 "Aluminum-Framed Entrance and Storefront."
3. Section 084413 "Glazed Aluminum Curtain Walls"
1.3 DEFINITIONS
A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C1036.
C. IBC: International Building Code.
D. Interspace: Space between lites of an insulating-glass unit.
1.4 COORDINATION
A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thickness, with reasonable tolerances.
1.5 ACTION SUBMITTALS
A. Product Data: For each type of product.
B. Glass Samples: For each type of the following products; 12 inches (300 mm) square.
1. Tinted glass.
2. Insulating glass.
C. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.
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.
1.6 INFORMATIONAL SUBMITTALS
A. Qualification Data: For installer and manufacturers of insulating-glass units with sputter-coated, low-E coatings.
B. Product Certificates: For glass.
C. Product Test Reports: For tinted glass, for tests performed by a qualified testing agency.
D. Sample Warranties: For special warranties.
1.7 QUALITY ASSURANCE
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.
B. Installer Qualifications: A qualified installer with five years' experience.
1.8 DELIVERY, STORAGE, AND HANDLING
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.
B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.
1.9 FIELD CONDITIONS
A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
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).
1.10 WARRANTY
A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that 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.
1. Warranty Period: 10 years from date of Substantial Completion.
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 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.
2. Warranty Period: 10 years from date of Substantial Completion.
PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. Cardinal Glass Industries
B. Pilkington North America
C. Source Limitations for Glass: Obtain from single source from single manufacturer for each glass type.
1. Obtain tinted glass from single source from single manufacturer.
D. Source Limitations for Glazing Accessories: Obtain from single source from single manufacturer for each product and installation method.
2.2 PERFORMANCE REQUIREMENTS
A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) 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.
B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design glazing.
C. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined according to the IBC and ASTM E1330.
2. Design Wind Pressures: As indicated on Drawings.
3. Design Wind Pressure: Determine design wind pressures applicable to Project according to ASCE/SEI 7, based on heights above grade indicated on Drawings.
a. Wind Design Data: As indicated on Drawings.
b. Importance Factor: 1.0.
c. Exposure Category: B.
4. Design Snow Loads: As indicated on Drawings.
5. Probability of Breakage for Sloped Glazing: For glass surfaces sloped more than 15 degrees from vertical, design glass for a probability of breakage not greater than 0.01.
6. 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.
7. Differential Shading: Design glass to resist thermal stresses induced by differential shading within individual glass lites.
D. Windborne-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.
9. Large-Missile Test: For glazing located within 30 feet (9.1 m) of grade.
9. Small-Missile Test: For glazing located between 30 feet (9.1 m) and above grade.
E. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
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:
1. For monolithic-glass lites, properties are based on units with lites 6 mm thick.
2. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
3. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F (W/m<sup>2</sup> x m x K).
4. 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.
5. Visible Reflectance: Center-of-glazing values, according to NFRC 300.
2.3 GLASS PRODUCTS, GENERAL
A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
6. AAMA Publications: AAMA GDSG-1, "Glass Design for Sloped Glazing," and AAMA TIR A7, "Sloped Glazing Guidelines."
7. IGMA Publication for Sloped Glazing: IGMA TB-3001, "Guidelines for Sloped Glazing."
8. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency, acceptable to authorities having jurisdiction or manufacturer. Label shall include manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.

D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than the thickness indicated.
1. Minimum Glass Thickness for Exterior Lites: 6 mm.
2. Thickness of Tinted Glass: Provide same thickness for each tint color indicated throughout Project.
E. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.
2.4 GLASS PRODUCTS
A. Tinted Annealed Float Glass: ASTM C1036, Type I, Class 2 (tinted), Quality-Q3.
B. Fully Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
C. Heat-Strengthened Float Glass: ASTM C1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
2. INSULATING GLASS
A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E2190.
1. Sealing System: Dual seal, with manufacturer's standard primary and secondary sealants.
2. Perimeter Spacer: Manufacturer's standard spacer material and construction
a. Technofom
3. Desiccant: Molecular sieve or silica gel, or a blend of both.
2.6 GLAZING SEALANTS
A. General:
1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
2. Insulating glass.
3. Colors of Exposed Glazing Sealants: As indicated by manufacturer's designations.
B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C920, Type S, Grade NS, Class 100/50, Use NT.
2.7 GLAZING TAPES
A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C1281 and AAMA 800 for products indicated below:
1. AAMA 804.3 tape, where indicated.
2. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
3. AAMA 807.3 tape, for glazing applications in which foam tape is not subject to continuous pressure.
B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.
2.8 MISCELLANEOUS GLAZING MATERIALS
A. General: Provide products of material, size, and shape complying with referenced glazing standard, with requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
C. Setting Blocks:
1. Type recommended by sealant or glass manufacturer.
D. Spacers:
1. Type recommended by sealant or glass manufacturer.
E. Edge Blocks:
1. Type recommended by sealant or glass manufacturer.
F. Cylindrical Glazing Sealant Backing: ASTM C1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.
2.9 FABRICATION OF GLAZING UNITS
A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
a. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
B. Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites to produce square edges with slight chamfers at junctions of edges and faces.
C. Grind smooth and polish exposed glass edges and corners.
PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:
1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
2. Presence and functioning of weep systems.
3. Minimum required face and edge clearances.
4. Effective sealing between joints of glass-framing members.
B. Proceed with installation only after unsatisfactory conditions have been corrected.
3.2 PREPARATION
A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.
B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.
3.3 GLAZING, GENERAL
A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in this course of compatible sealant suitable for heel bead.
E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
F. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
2. Provide 1/8-inch (3-mm) minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
H. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
I. Set glass lites with proper orientation so that coatings face exterior or interior as specified.
J. Where wedge-shaped gaskets are driven into one side of channel to preserve sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.
K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.
3.4 TAPE GLAZING
A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
E. Do not remove release paper from tape until right before each glazing unit is installed.
F. Apply heel bead of elastomeric sealant.
G. Center glass lites in openings on setting blocks, and press firmly against tape 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.
H. Apply cap bead of elastomeric sealant over exposed edge of tape.
3.5 GASKET GLAZING (DRV)
A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft 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 watertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
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 watertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
E. Install gaskets so they protrude past face of glazing stops.
3.6 SEALANT GLAZING (WET)
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 glazing channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearances for optimum sealant performance.
B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
C. Wash exposed surfaces of sealants to provide a substantial wash away from glass.
3.7 CLEANING AND PROTECTION
A. Immediately after installation remove nonpermanent labels and clean surfaces.
B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces 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.
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 coatings.
C. Remove and replace glass that is damaged during construction period.
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.
3.8 INSULATING GLASS SCHEDULE
A. Glass Type: Low-E-coated, tinted insulating glass.
1. Basis-of-Design Product: Cardinal Glass Industries
2. Overall Unit Thickness: 1 inch (25 mm) and 6 mm existing for sloped glazing
3. Minimum Thickness of Each Glass Lite: 6 mm.
4. Outdoor Lite: Tinted annealed, heat-strengthened, and/or fully tempered float glass.
5. Tint Color: Bronze.
6. Interspace Content: Argon.
7. Indoor Lite: Clear annealed, heat-strengthened, and/or fully tempered float glass.
8. Safety glazing required.
END OF SECTION 08800



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SPECS

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**SECTION 08 7100 - DOOR HARDWARE**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

A. Work under this section includes furnishing and the installation of finish and security hardware specified herein and noted on drawings for a complete and operational system, including any electrified door hardware components including finish and security hardware and auto operators for entrance doors.

Items include, but are not limited to:

- Exit Devices
- Push Plates - Pulls
- Closers
- Stops, Wall Bumpers, Overhead Controls
- Thresholds, Gasketing and Door Bottoms
- Stencilers
- Miscellaneous Trim and Accessories
- Electrified Hardware Items, Controls and Power Supplies

**B. RELATED SECTIONS:**

- Section 08 41 33 - Aluminum Framed Entrances and Storefronts

**1.02 REFERENCES**

A. The following references are used in this section.

- NFPA 80 - Standards for Fire Doors and Windows.
- NFPA 101 - Code for Safety to Life from Fire in Buildings and Structures
- Installation Guide for Doors and Hardware, DHI, 1994.
- ANSI / BHMA A156.18, Materials and Finishes, 2006.

**1.03 GENERAL REQUIREMENTS**

A. Provide items, articles, materials, operations and methods listed, mentioned or scheduled herein or on drawings, in quantities as required to complete project. Provide hardware that functions properly. Prior to furnishing hardware, advise Architect of items that will not operate properly, are improper for conditions, or will not remain permanently anchored.

**1.04 SUBMITTALS**

A. Hardware Schedule: Submit electronic copies of hardware schedule in vertical format as illustrated by the Sequence of Form for the Hardware Schedule as published by the Door and Hardware Institute. Schedules which do not comply will be returned for correction before checking.

B. Hardware schedule must clearly indicate architect's hardware group and manufacturer of each item proposed.

C. The schedule must be reviewed prior to submission by a certified Architectural Hardware Consultant (AHC), who must affix his or her seal attesting to the completeness and correctness of the schedule.

- Check specified hardware for suitability and adaptability to details and surrounding conditions. Indicate unsuitable or incompatible items and proposed substitutions in hardware schedule.
- Provide listing of manufacturer's template numbers for each item of hardware in hardware schedule.

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Where emergency exit devices are required on fire-rated doors (with supplementary marking on doors UL or FM labels including "Fire Door to be Equipped with Fire Exit Hardware") provide UL/WHI or FM label on exit devices indicating "Fire Exit Hardware".

**F. Substitutions:** All substitution requests are required to be submitted prior to the bid date and complying with the procedures and time frame as outlined in Division 01, General Requirements. Approval of submitted products is at the discretion of the architect and his hardware consultant.

**G. At the Project's Completion, the Owner's Representative must accompany the Architect and General Contractor during the Door Hardware and Access Control Items punch list phase of the project close-out, insuring the Owner's Representative is familiar with all applications and systems, as installed. Refer to additional requirements under 3.0 EXECUTION.**

**H. Pre-Installation Meeting:** Prior to door hardware installation, the General Contractor / Construction Manager must request a hardware installation meeting to be held at the project location. This meeting must convene prior to the hardware's installation. The types of hardware this meeting must include are: locksets, exit devices, and door closers. The manufacturer's representatives of the above listed products, in conjunction with the hardware supplier for this project, must conduct the installation training. All hardware installers must be required to attend this meeting to receive certificate of authorized training. This meeting must serve as door openings coordination and review of all shop drawings from related trades prior to the hardware installation. The Hardware Supplier must include any related meeting costs in their proposal.

**I. Electrified Hardware and Security Hardware Systems:** Prior to ordering the electrified hardware, the General Contractor must request a coordination meeting. This meeting must convene prior to or after the Door Hardware Schedule and the wiring diagrams have been submitted to the General Contractor. All related trades must be represented at this meeting, which must also include the architect, the Owner's representative, the hardware supplier, and the hardware manufacturer's representative as requested. This meeting must serve as a review and coordination of all electrified hardware, wiring, connections, location for power supplies, and remote switches, and door functions. All related trades must make any required changes, and resubmit schedules, diagrams, and any other required data, no later than one (1) week following this meeting.

**1.06 DELIVERY, STORAGE AND HANDLING**

A. Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.

B. Packaging of door hardware is the responsibility of the supplier. As material is received by the hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set numbers to match the set numbers of the approved hardware schedule. Two or more identical sets may be packed in the same container.

C. The door hardware supplier must deliver all individually packaged hardware items in a timely fashion to the place of installation (Shop or Project Site), direct factory shipments are not acceptable unless agreed upon beforehand. Hardware supplier must coordinate delivery times and schedules with the contractor.

D. The General Contractor, door hardware supplier, access control supplier, and installers must count, coordinate, and store all door hardware and access control items herein, verifying complete counts of all items scheduled and furnished. The contractor must report all shortages (discrepancies with shipping documents) within five (5) working days. The manufacturers' and Owner's representatives will inspect the installation of the door hardware and access control items during that phase of construction. Any deficiencies in installation of all materials included herein must be corrected before installation continues.

**E. The General Contractor must provide a secure lock-up for the door hardware and security equipment delivered to the Project, but not yet installed. Control handling and installation of the**

hardware items that are not immediately replaceable, so that completion of the work will not be delayed by hardware losses, both before and after installation.

**1.07 WARRANTY**

A. All materials must be warranted against defects in workmanship and materials for a period of one (1) year from date of acceptance of this project, unless otherwise noted. Any evidence of misuse or abuse voids all warranties. These warranties must be each manufacturer's standard written warranty.

**B. Special Warranties:**

- Continuous Geared Hinges: Life of the Door Opening.
- Latchesets and Locksets: Three (3) Year Period.
- Exit Devices: Three (3) Year Period.
- Door Closers: Ten (10) Year Period.
- Saddle Thresholds, Bumper Thresholds, Door Sweeps, Self-Adhesive Gasketing, Perimeter Seals, Astragal Seals, Self-Adhesive Astragal Gasketing, Mullion Seals, Interlocking Seals, and Dip-Slips: Five (5) Year Period.

C. Any manufacturer whose standard written warranty does not equal or exceed the requirements listed above must provide a letter stating that they will extend their warranty to comply with the requirements of this specification.

D. All of the manufacturer's fasteners and attachments supplied with each hardware item must be installed to maintain the manufacturer's fire listing and/or warranty.

E. Refer to Section 01 - Closeout Procedures for additional warranty requirements.

**1.08 MAINTENANCE**

A. Maintenance Tools and Instructions: General Contractor must furnish a complete set of specialized tools and maintenance instructions as needed for the Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

**PART 2 PRODUCTS**

**2.1 EXIT DEVICES**

A. Acceptable Manufacturers:

Falcon	Von Duprin	Sargent
2425 Series	98/35A Series	80 Series

B. Provide exit device series and functions as specified in Hardware Groups. Von Duprin product numbers are referenced in the Hardware Groups.

C. All exit devices must be UL listed for panic. Exit devices for labeled doors must be UL listed as "Fire Exit Hardware".

D. Where lever trim is specified, provide lever design to match lockset levers.

E. Provide lever trim with breakaway feature.

F. Provide cylinders for exit devices with locking trim and cylinder dogging.

G. Provide exit devices with stainless steel touch bars. Load bearing plastic parts are not acceptable.

H. Provide exit devices with cast metal, flush end caps.

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I. Provide deadlocking latchbolt feature for exit devices.

J. Provide roller strikes on all rim exit devices.

K. Provide hex-key dogging feature for non-rated exit devices.

**2.2 DOOR TRIM**

A. Acceptable Manufacturers and Types:

Ives	Trimco	Burns
8190	1191-3	29C

B. Push Bars:

- Ives type 9100, unless otherwise indicated.

C. Pulls:

- Ives Series 8190, unless otherwise indicated.
- Where required, mount back to back with push bars.

**2.3 DOOR CLOSERS (EXTERIOR)**

A. Acceptable Manufacturers and Types of Exposed Closers:

LCN	Sargent	Corbin
4011/4411	281/281-1P10	DCR200/DCR210 X A3

B. Closers must have fully hydraulic, full rack and pinion action with a high strength cast iron cylinder.

C. Provide non-sized closers, continuously adjustable over the full range of closer sizes, and allow for reduced opening force to meet opening force requirements of ANSI A117.1.

D. Hydraulic regulation must be by tamper-proof, non-critical valves. Closers must have separate adjustment for latch speed, swing speed, and back check.

E. Provide closers with solid forged steel main arms (and forearms for parallel arm closers) and where specified to have a cast-in solid stop on the closer shoe ("CUSH"). Parallel arm mounted closers must have "EDA" type arms or, where specified, "CUSH" or "SCUSH" type arms.

F. Surface closers must be certified to exceed ten million full load cycles by a recognized independent testing laboratory.

G. Provide drop plates, brackets, or adapters for arms as required to suit details.

H. Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.

I. Provide back-check for closers.

J. Provide hold-open arms where indicated, except on labeled doors.

K. Provide closers for doors as noted in Hardware Groups and, in addition, provide closers for labeled doors whether or not specifically noted in group.

L. Provide closers meeting the requirements of UBC 7-2, 1997 and UL 10C positive pressure tests.

M. Pressure relief valves (PRVs) are not permitted.

**2.4 OVERHEAD STOPS**

A. Acceptable Manufacturers

Glynn Johnson	Rixson	Sargent
9 Series	590 Series	100 Series
100	1 Series	890 Series

B. Provide overhead stops for interior doors equipped with regular arm surface type closer for doors that open against equipment, screens, sideights, other objects that would make wall stops inappropriate.

C. Provide sex bolt attachments for mineral core door application.

**2.5 WALL STOPS AND HOLDERS**

A. Acceptable Manufacturers and Types:

Ives	Trimco	Door Controls
WS406/407CCV	3770WVP	3211T

B. Provide WS406/407CCV Series wall stop for each door leaf unless otherwise specified, or where conditions require the use of an overhead stop.

C. Floor or base stops must be used only where definitely specified or absolutely unavoidable.

**2.6 THRESHOLDS**

A. Acceptable Manufacturers and Product:

Zero	National Guard	Reese
825A	8425	S282A

B. Where thresholds are specified in hardware groups, provide 425E thresholds unless detailed otherwise.

C. Refer to drawings for special details. Provide accessories, shims and fasteners.

D. Where thresholds occur at openings with one or more mullions, they must be cut for the mullions and extended continuously for the entire opening.

**2.7 WEATHERSTRIPPING**

A. Acceptable Manufacturers and Product:

Sweeps	38A	201NA	323C
Jambbs	188S	5050	755C
Rain Strips	142A	18A	E201C

B. Refer to hardware sets for application specific hardware.

C. Where weatherstripping is specified in hardware groups, provide 188S unless detailed otherwise.

D. Provide self-tapping fasteners for weatherstripping being applied to hollow metal frames.

E. Where sweeps are specified in hardware groups, provide 39A unless detailed otherwise.

F. Where rain strips are specified in hardware groups, provide 142A x full frame width, unless detailed otherwise.

**2.8 GASKETING**

A. Acceptable Manufacturers:

Zero	National Guard	Reese
188S	5050	F-797B

B. Refer to hardware sets for application specific hardware.

C. Where smoke gasket is specified in hardware groups, provide 188S, unless detailed otherwise.

D. Provide gaskets for 20-minute doors and doors designated for smoke and draft control.

E. Where frame applied intumescent seals are required by the manufacturer, provide gaskets that comply with UBC 7-2, 1997 and UL 10C positive pressure tests.

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**2.9 POWER SUPPLIES**

A. Acceptable Manufacturers and Types:

Schlage Electronics	Precision	Securitron
PS900 Series	ELR Series	EP5 Series

B. Requirements:

- Provide power supplies, recommended and approved by the manufacturer of the electrified locking component, for the operation of electrified locks, electrified exit devices, magnetic locks, electric strikes, and other components requiring a power supply.
- Provide the appropriate quantity of power supplies necessary for the proper operation of the electrified locking component and/or components as recommended by the manufacturer of the electrified locking components with consideration for each electrified component utilizing the power supply, the location of the power supply, and the approved wiring diagrams. Locate the power supplies as directed by the Architect.
- Provide a power supply that is regulated and filtered 24 VDC, or as required, and UL class 2 listed.

**2.10 FASTENERS**

A. Including, but not limited to, wood or machine screws, bolts, bolts, nuts, anchors, etc. of proper type, material, and finish required for installation of hardware.

B. Use Phillips head for exposed screws. Do not use aluminum screws to attach hardware.

C. Provide self-tapping (TEC) screws for attachment of sweeps and stop-applied weatherstripping only.

**2.11 TYPICAL FINISHES AND MATERIALS**

A. Finishes, unless otherwise specified:

- Continuous Hinges: US28 (BHMA 628) on Aluminum
- Exit Devices: US26D (BHMA 626) on Brass or Bronze
- Push Plates, Pulls and Push Bars: US32D (BHMA 630) on Stainless Steel
- Overhead Stops and Holders: US26D (BHMA 626) on Brass or Bronze
- Closers: Surface mounted. Sprayed Aluminum Lacquer.
- Latch Protectors: US32D (BHMA 630) on Stainless Steel
- Miscellaneous Hardware: US26D (BHMA 626) on Brass or Bronze

**PART 3 EXECUTION**

**3.1 EXAMINATION**

A. Examine doors, frames, and related items for conditions that would prevent the proper application of finish hardware. Do not proceed until defects are corrected.

**3.2 INSTALLATION**

A. Mount hardware units at heights indicated in the following applicable publications, except as specifically indicated or required to comply with governing regulations and, except as otherwise indicated, by the Architect.

- "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.

B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 09 Sections. Do not install surface-mounted items until finishes have been completed on the substrates involved.

C. Sets units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

D. Where scheduled, door pulls must be through-bolted with both heads concealed behind push plates.

E. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

F. Set thresholds, for exterior and interior doors, in a full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements specified in Division 07 - Joint Sealers.

G. Weatherstripping and Seals: Comply with manufacturer's instructions and recommendations to the extent installation requirements are not otherwise indicated.

H. The hardware installer must be responsible for installation of all mechanical and electromechanical hardware items contained within this specification, in accordance with the manufacturer's technical installation guidance, and in addition to all applicable code requirements.

I. The Electrical Sub-Contractor, Electrical, must be responsible for providing and installing all (120 VAC) power source wiring as required for the electrified locking and access control hardware, equipment, accessories, and power supplies. This includes quad outlets as required on a dedicated circuit in designated IT / Telecommunication Room(s) and the related conduit, stud-ins, junction boxes, and connectors required for the power source delivery and connections. Provide cabling, conduit, stud-ins, patch cords, fire stop systems, data connectors, junction boxes, and back boxes for both the electrified locking hardware and access control equipment at each of the access controlled or monitored openings per plan drawings and specifications. Provide and install conduit between each of the aforementioned devices and between junction boxes, power supplies, and access control equipment located on or above each door opening.

J. At wall mounted remote card readers, provide conduit on the secured side of each door opening, at 48" from above the finished floor and 6" from the edge of each door frame, to the related power supplies and access control equipment, unless otherwise instructed by Architect.

K. All electrical hardware power transfer items provide conduit on the secured side of each door opening, from the power transfer items, through-wire hinges, or serviceable panel locations, inside of frame's jambs, to the related power supplies and access control equipment.

L. Installation of power supplies and interfacing of security system with fire alarm system as required, and coordination of complete security system must be provided by the Electrical Sub-Contractor, under the Division 26 - Electrical. Electrical Sub-Contractor must be responsible for providing and installing all 120 VAC cabling connections and terminations from the electrical junction boxes to these electrical devices.

M. The Access Control System's supplier must be responsible for providing all low-voltage (12 / 24 VDC) wiring and communication cabling (RS-232 / RS-485) installation from network control processors to reader controllers, I / O monitor / control interface panels, electrified and integrated locking hardware, remote card readers, keypads, or display terminals, monitoring and signaling switches, and power supplies, identification, and termination in accordance with the manufacturer's technical installation guidance, in addition to all applicable code requirements. Installation of all card readers, controllers, software packages, door position switches, and run low voltage wiring from the power supplies / controllers to the electrified hardware items at each opening where specified. The Access Control System's installer must also be responsible for connectors, final wire terminations, final hook-ups, testing, system set-up, warranty, and Owner Turnover. Owner Training must be provided under this Section.

N. Upon completion of the final installation of the Door Hardware and Access Control System, and burn in of the Security System, the Contract Hardware Distributor and the Access Control System's Supplier must jointly make final adjustments to the electrified hardware and Access Control System's openings to insure proper adjustment and function of the opening is in compliance with the system's functionality requirements.

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**3.3 FIELD QUALITY CONTROL**

A. After installation has been completed, provide services of qualified hardware consultant to check Project to determine proper application of finish hardware according to schedule. Also check operation and adjustment of hardware items.

B. Adjust door closer devices to compensate for final operation of heating and ventilating equipment.

**3.4 ADJUSTING AND CLEANING**

A. At final completion, hardware must be left clean and free from disfigurement. Make final adjustment to door closers and other items of hardware. Where hardware is found defective repair or replace or otherwise correct as directed.

B. Adjust door closers to meet opening force requirements of Uniform Federal Accessibility Standards.

C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of space or area, return to work during week prior to acceptance or occupancy, and make final check and adjustment of hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors.

D. Instruct Owner's personnel in proper adjustment and maintenance of door hardware and hardware finishes.

E. Clean adjacent surfaces soiled by hardware installation.

**3.5 PROTECTION**

A. Provide for proper protection of items of hardware until Owner accepts Project as complete.

**3.6 HARDWARE GROUPS**

A. The following schedule of hardware groups must be considered a guide only, and the supplier is cautioned to refer to general conditions, special conditions, and the preamble to this section. It must be the hardware supplier's responsibility to furnish all required hardware.

B. Refer to the door schedule for hardware group required at each door opening.

**HARDWARE SET # 01**

FOR USE ON DOOR #(S):  
HASKELL  
DOORS A, C, F

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH MFR
1 EA	CONT. HINGE	224HD	CLR IVE
1 EA	CONT. HINGE	224HD EPT	CLR IVE
1 EA	POWER TRANSFER	EPT10 CON	689 VON
1 EA	ELEC PANIC	QEL-98-EO	626 VON
1 EA	HARDWARE	98-EO	626 VON
1 EA	PANIC HARDWARE	98-EO	626 VON
1 EA	REMOVABLE MULLION	6654	689 VON
1 EA	CLOSER	4111 EDA	689 LCN
1 EA	OVERHEAD STOP	90	626 GLY
1 EA	DOOR SWEEP	BY DOOR MFR.	BY DOOR MFR.
1 EA	THRESHOLD	BY DOOR MFR.	BY DOOR MFR.

**"WEATHER SEALS BY ALUMINUM DOOR MANUFACTURER.  
"CARD ACCESS SYSTEM, READER, WIRING AND CONNECTIONS BY SECURITY PROVIDER.**

**HARDWARE SET # 02**

FOR USE ON DOOR #(S):  
KENNEDY  
DOORS D AND U

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH MFR
1 EA	CONTINUOUS HINGE	224HD	CLR IVE
1 EA	PANIC HARDWARE	98-EO	626 VON
1 EA	RM CYLINDER	951	626 VON
1 EA	REMOVABLE MULLION	6654	689 VON
1 EA	OH STOP	90	630 GLY
1 EA	SURFACE CLOSER	4111 EDA	689 LCN
1 EA	DOOR SWEEP	BY DOOR MFR.	BY DOOR MFR.
1 EA	THRESHOLD	BY DOOR MFR.	BY DOOR MFR.

**"WEATHER SEALS BY ALUMINUM DOOR MANUFACTURER.  
"CARD ACCESS SYSTEM, READER, WIRING AND CONNECTIONS BY SECURITY PROVIDER.**

**HARDWARE SET # 03**

FOR USE ON DOOR #(S):  
HASKELL  
DOOR J

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH MFR
1 EA	CONT. HINGE	224HD EPT	CLR IVE
1 EA	POWER TRANSFER	EPT10 CON	689 VON
1 EA	ELEC PANIC	QEL-98-EO	626 VON
1 EA	HARDWARE	98-EO	626 VON
1 EA	SURFACE CLOSER	4111 EDA	689 LCN
1 EA	OVERHEAD STOP	90	626 GLY
1 EA	DOOR SWEEP	BY DOOR MFR.	BY DOOR MFR.
1 EA	THRESHOLD	BY DOOR MFR.	BY DOOR MFR.

**"WEATHER SEALS BY ALUMINUM DOOR MANUFACTURER.  
"CARD ACCESS SYSTEM, READER, WIRING AND CONNECTIONS BY SECURITY PROVIDER.**

**HARDWARE SET # 04**

FOR USE ON DOOR #(S):  
HASKEL  
DOORS E AND G

EACH TO HAVE:

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**3.7 FIELD QUALITY CONTROL**

A. After installation has been completed, provide services of qualified hardware consultant to check Project to determine proper application of finish hardware according to schedule. Also check operation and adjustment of hardware items.

B. Adjust door closer devices to compensate for final operation of heating and ventilating equipment.

**3.8 ADJUSTING AND CLEANING**

A. At final completion, hardware must be left clean and free from disfigurement. Make final adjustment to door closers and other items of hardware. Where hardware is found defective repair or replace or otherwise correct as directed.

B. Adjust door closers to meet opening force requirements of Uniform Federal Accessibility Standards.

C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of space or area, return to work during week prior to acceptance or occupancy, and make final check and adjustment of hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors.

D. Instruct Owner's personnel in proper adjustment and maintenance of door hardware and hardware finishes.

E. Clean adjacent surfaces soiled by hardware installation.

**3.9 PROTECTION**

A. Provide for proper protection of items of hardware until Owner accepts Project as complete.

**3.10 HARDWARE GROUPS**

A. The following schedule of hardware groups must be considered a guide only, and the supplier is cautioned to refer to general conditions, special conditions, and the preamble to this section. It must be the hardware supplier's responsibility to furnish all required hardware.

B. Refer to the door schedule for hardware group required at each door opening.

**HARDWARE SET # 05**

FOR USE ON DOOR #(S):  
HASKELL  
DOORS A, C, F

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH MFR
1 EA	CONT. HINGE	224HD	CLR IVE
1 EA	PANIC HARDWARE	98-EO	626 VON
1 EA	RM CYLINDER	951	626 VON
1 EA	REMOVABLE MULLION	6654	689 VON
1 EA	CLOSER	4111 EDA	689 LCN
1 EA	OVERHEAD STOP	90	626 GLY
1 EA	DOOR SWEEP	BY DOOR MFR.	BY DOOR MFR.
1 EA	THRESHOLD	BY DOOR MFR.	BY DOOR MFR.

**"WEATHER SEALS BY ALUMINUM DOOR MANUFACTURER.  
"CARD ACCESS SYSTEM, READER, WIRING AND CONNECTIONS BY SECURITY PROVIDER.**

**HARDWARE SET # 06**

FOR USE ON DOOR #(S):  
KENNEDY  
DOORS D AND U

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH MFR
1 EA	CONTINUOUS HINGE	224HD	CLR IVE
1 EA	PANIC HARDWARE	98-EO	626 VON
1 EA	RM CYLINDER	951	626 VON
1 EA	REMOVABLE MULLION	6654	689 VON
1 EA	OH STOP	90	630 GLY
1 EA	SURFACE CLOSER	4111 EDA	689 LCN
1 EA	DOOR SWEEP	BY DOOR MFR.	BY DOOR MFR.
1 EA	THRESHOLD	BY DOOR MFR.	BY DOOR MFR.

**"WEATHER SEALS BY ALUMINUM DOOR MANUFACTURER.  
"CARD ACCESS SYSTEM, READER, WIRING AND CONNECTIONS BY SECURITY PROVIDER.**

**HARDWARE SET # 07**

FOR USE ON DOOR #(S):  
HASKELL  
DOOR J

EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH MFR
1 EA	CONTINUOUS HINGE	224HD	CLR IVE
1 EA	PANIC HARDWARE	98-EO	626 VON
1 EA	RM CYLINDER	951	626 VON
1 EA	REMOVABLE MULLION	6654	689 VON
1 EA	OH STOP	90	630 GLY
1 EA	SURFACE CLOSER	4111 EDA	689 LCN
1 EA	DOOR SWEEP	BY DOOR MFR.	BY DOOR MFR.
1 EA	THRESHOLD	BY DOOR MFR.	BY DOOR MFR.

**"WEATHER SEALS BY ALUMINUM DOOR MANUFACTURER.  
"CARD ACCESS SYSTEM, READER, WIRING AND CONNECTIONS BY SECURITY PROVIDER.**

**HARDWARE SET # 08**

FOR USE ON DOOR #(S):  
HASKEL  
DOORS E AND G

EACH TO HAVE:

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08 7100  
DOOR HARDWARE

3. Furnish other Contractors and Subcontractors concerned with copies of final approved hardware schedule. Submit necessary templates and schedules as soon as possible to hollow metal, wood door, and aluminum door fabricators in accordance with schedule they require for fabrication.

4. Samples: Level design or finish sample: Provide 3 samples if requested by architect.

D. Wiring Diagrams: Provide complete and detailed system operation and elevation diagrams specially developed for each opening requiring electrified hardware, except openings where only magnetic hold-opens or door position switches are specified. Provide these diagrams with hardware schedule submitted for approval. Provide detailed wiring diagrams with hardware delivery to jobsite.

E. Installation Instructions: Provide manufacturer's written installation and adjustment instructions for finish hardware. Send installation instructions to site with hardware.

F. Templates: Submit templates and "revised Hardware Schedule" to door and frame supplier and others as applicable to enable proper and accurate sizing and locations of cutouts and reinforcing.

**1.05 QUALITY ASSURANCE**

A. General Contractor's Investigation: Prior to Contract Execution, the General Contractor must have thoroughly investigated the entities that will be performing work or supplying materials, products, equipment, or systems for this project, to ensure that they comply with all of the qualifications and requirements mentioned or implied in the Contract Documents. If it is later determined that any of the previously mentioned entities do not comply with the qualifications and requirements specified in the Contract Documents, the General Contractor will be required to replace that entity with a qualified entity at no increase in Contract Sum or Contract Time.

B. Manufacturer: Obtain each type of hardware (ie. latch and locksets, hinges, closers) from single manufacturer, although several may be indicated as offering products complying with requirements.

C. Qualifications of the Hardware Supplier: A recognized architectural door hardware supplier, with warehousing facilities, who has been furnishing hardware and installation in the Project's vicinity for a period of not less than 4 years. The supplier must be, or must employ, an Architectural Hardware Consultant (AHC) who is available, at reasonable times during the course of the work, for consultation about the Project's hardware requirements, to the Owner, Architect, and Contractor. An Architectural Hardware Consultant (AHC) must prepare all hardware and access control schedules. This Supplier must be responsible for proper coordination of all finish hardware items and access control items with related sections to insure compatibility of products.

- Hardware supplier must be an authorized, direct factory distributor of all door hardware products specified herein to insure compliance and service of these products.
- Require supplier to meet with Owner to finalize keying requirements and to obtain final instructions in writing.

D. Qualifications of Installer: The hardware installer must have documented experience in the installation of hardware of similar quantities and types as required for this project. The installer's qualifications must be submitted to the architect, in writing, for approval by the architect before any work must commence.

E. Fire-Rated Openings: Furnish door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of the Authorities Having Jurisdiction. Furnish only items, of door hardware, that are listed and are identical to products tested by UL, ITS-WH, FM, or other testing and inspecting organization acceptable to the Authorities Having Jurisdiction, for use on types and sizes of doors indicated, in compliance with the requirements of fire-rated door and door frame labels.

Project requires door assemblies and components that are compliant with positive pressure and S Label requirements. Specifications must be cross-referenced and coordinated with door and frame manufacturers to ensure that total door opening engineering is compatible with UL10C Standard for Positive Pressure Fire Tests of Door Assemblies.

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08 7100  
DOOR HARDWARE

hardware items that are not immediately replaceable, so that completion of the work will not be delayed by hardware losses, both before and after installation.

**1.07 WARRANTY**

A. All materials must be warranted against defects in workmanship and materials for a period of one (1) year from date of acceptance of this project, unless otherwise noted. Any evidence of misuse or abuse voids all warranties. These warranties must be each manufacturer's standard written warranty.

**B. Special Warranties:**

- Continuous Geared Hinges: Life of the Door Opening.
- Latchesets and Locksets: Three (3) Year Period.
- Exit Devices: Three (3) Year Period.
- Door Closers: Ten (10) Year Period.
- Saddle Thresholds, Bumper Thresholds, Door Sweeps, Self-Adhesive Gasketing, Perimeter Seals, Astragal Seals, Self-Adhesive Astragal Gasketing, Mullion Seals, Interlocking Seals, and Dip-Slips: Five (5) Year Period.

C. Any manufacturer whose standard written warranty does not equal or exceed the requirements listed above must provide a letter stating that they will extend their warranty to comply with the requirements of this specification.

D. All of the manufacturer's fasteners and attachments supplied with each hardware item must be installed to maintain the manufacturer's fire listing and/or warranty.

E. Refer to Section 01 - Closeout Procedures for additional warranty requirements.

**1.08 MAINTENANCE**

A. Maintenance Tools and Instructions: General Contractor must furnish a complete set of specialized tools and maintenance instructions as needed for the Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

**PART 2 PRODUCTS**

**2.1 EXIT DEVICES**

A. Acceptable Manufacturers:

Falcon	Von Duprin	Sargent
2425 Series	98/35A Series	80 Series

B. Provide exit device series and functions as specified in Hardware Groups. Von Duprin product numbers are referenced in the Hardware Groups.

C. All exit devices must be UL listed for panic. Exit devices for labeled doors must be UL listed as "Fire Exit Hardware".

D. Where lever trim is specified, provide lever design to match lockset levers.

E. Provide lever trim with breakaway feature.

F. Provide cylinders for exit devices with locking trim and cylinder dogging.

G. Provide exit devices with stainless steel touch bars. Load bearing plastic parts are not acceptable.

H. Provide exit devices with cast metal, flush end caps.

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08 7100  
DOOR HARDWARE

B. Provide overhead stops

KEYNOTES (THIS SHEET ONLY)

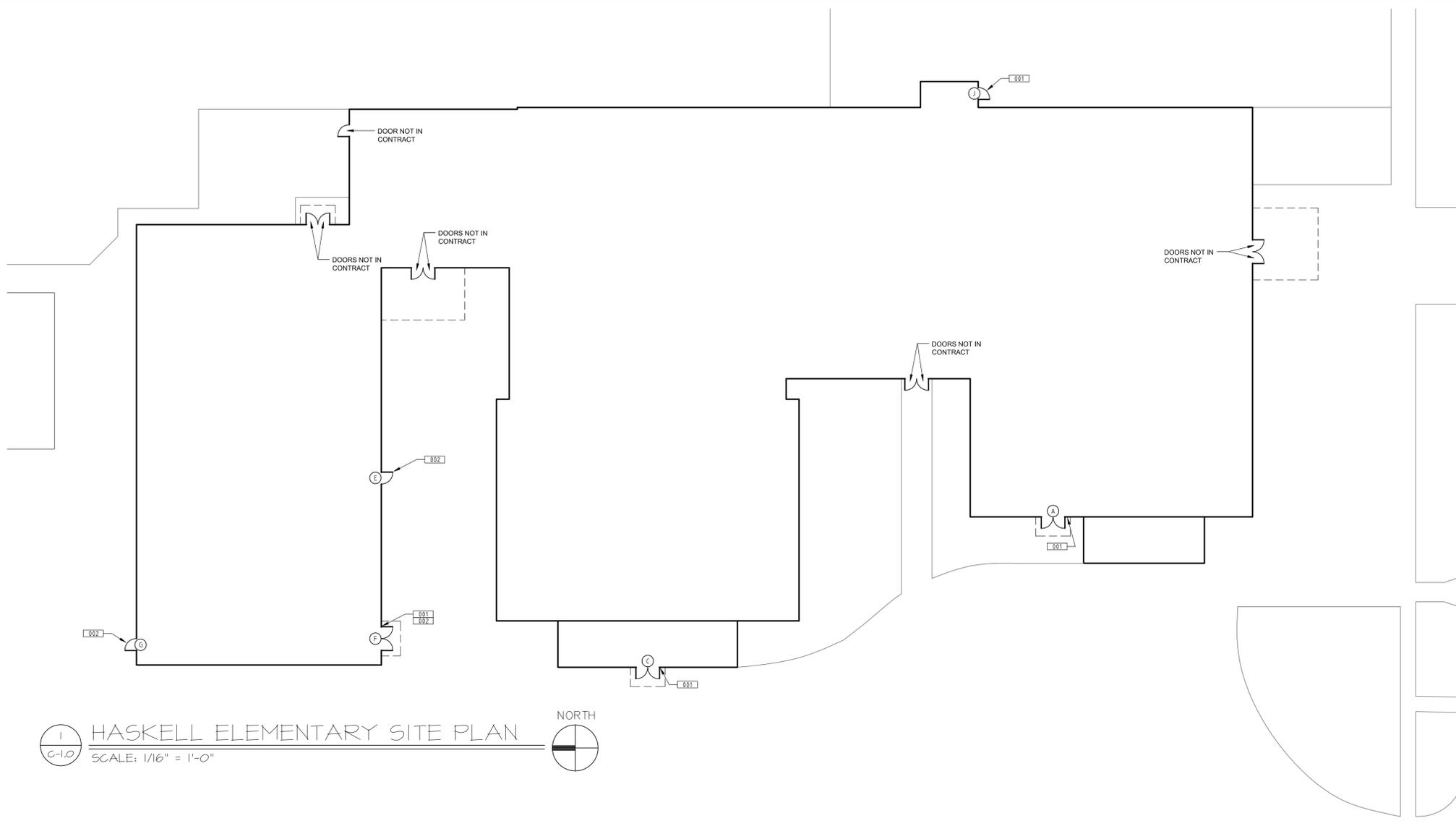
- ☐ 001 PROXIMITY READER TO BE REMOVED AND REINSTALLED BY OTHERS
- ☐ 002 NEW DOOR TO RECEIVE FROSTED GLASS

LEGEND OF SYMBOLS (THIS SHEET ONLY)

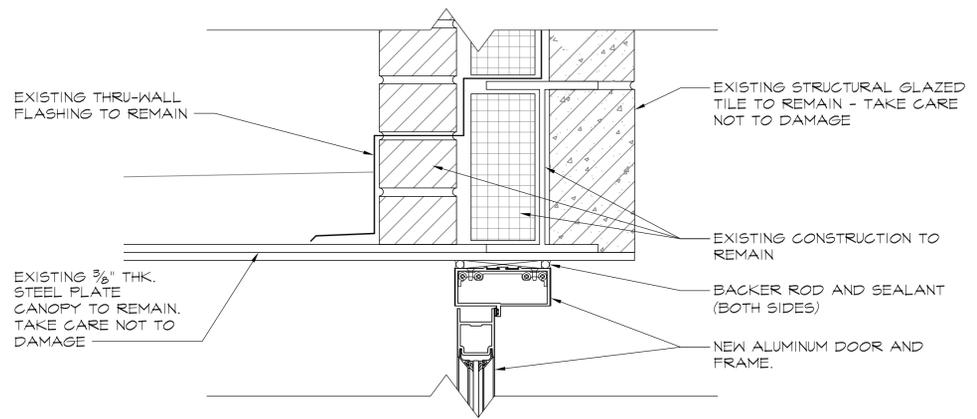
- Ⓢ DOOR TAG - SEE DOOR SCHEDULES AND DETAILS ON THIS SHEET

DOOR SCHEDULE

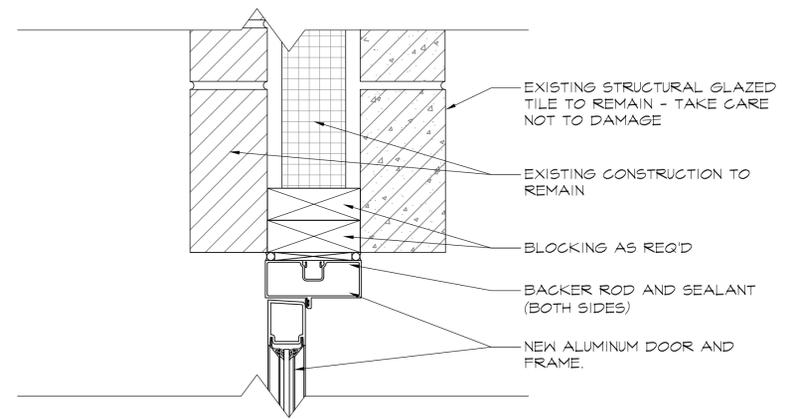
DOOR	DOOR TYPE	DIMENSION	HARDWARE	REMARKS
A	A	(2) 3' x 7'	SET #01	SEE SHEET G-1.2 FOR MORE INFO.
C	A	(2) 3' x 7'	SET #01	SEE SHEET G-1.2 FOR MORE INFO.
E	A	3' x 7'	SET #04	SEE SHEET G-1.2 FOR MORE INFO.
F	A	(2) 3' x 7'	SET #01	SEE SHEET G-1.2 FOR MORE INFO.
G	A	3' x 7'	SET #04	SEE SHEET G-1.2 FOR MORE INFO.
J	A	3' x 7'	SET #03	SEE SHEET G-1.2 FOR MORE INFO.



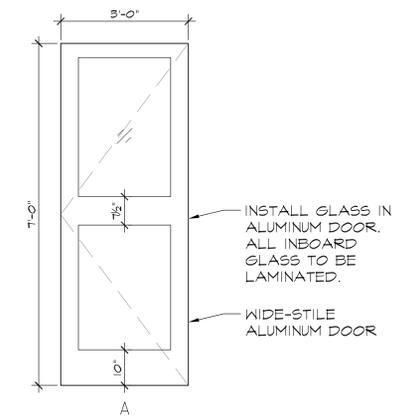
1 HASKELL ELEMENTARY SITE PLAN  
C-1.0 SCALE: 1/16" = 1'-0" NORTH



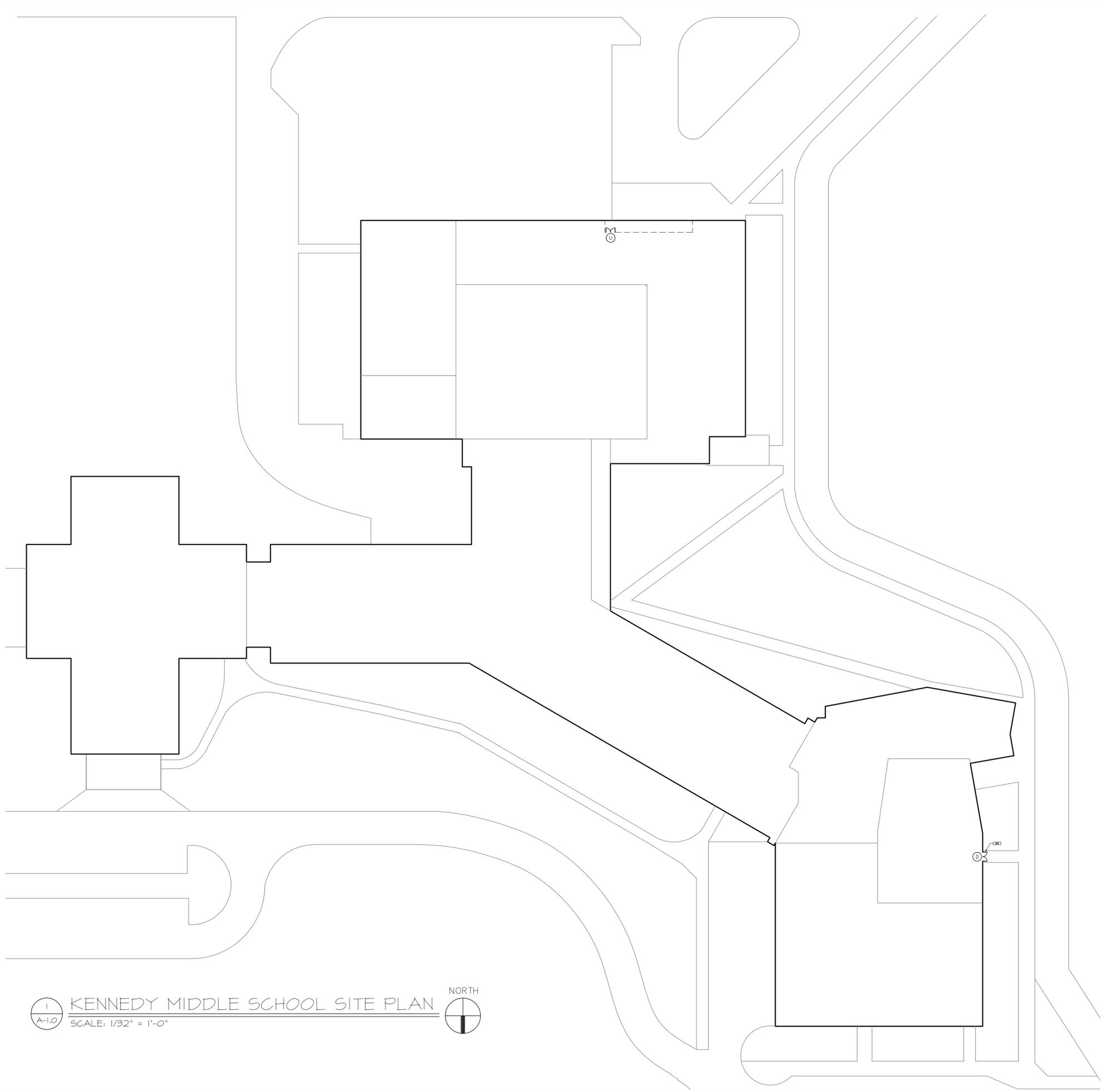
2 DOOR DETAIL @ HEAD  
C-1.0 SCALE: 1/2" = 1'-0"



3 DOOR DETAIL @ JAMB  
C-1.0 SCALE: 1/2" = 1'-0"



4 DOOR TYPE SCHEDULE  
C-1.0 SCALE: 1/2" = 1'-0"



1  
A-1.0

KENNEDY MIDDLE SCHOOL SITE PLAN

SCALE: 1/32" = 1'-0"



LEGEND OF SYMBOLS (THIS SHEET ONLY)

Ⓧ DOOR TAG - SEE DOOR TYPE SCHEDULE AND DETAILS ON C-1.0

DOOR SCHEDULE

DOOR	DOOR TYPE	DIMENSION	HARDWARE	REMARKS
D	A	(2) 3' x 7'	SET #02	SEE SHEET G-1.2 FOR MORE INFO.
U	A	(2) 3' x 7'	SET #02	SEE SHEET G-1.2 FOR MORE INFO.

KEYNOTES (THIS SHEET ONLY)

▣ NEW DOOR TO RECEIVE FROSTED GLASS



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ARCHITECT	OWNER	HASKELL/KENNEDY DOOR REPLACEMENT
		515 MAPLE ST. ROCKFORD IL, 61103
CONTRACTOR	ROB	520 N. PIERPONT AVE. ROCKFORD IL, 61103
		Project Number: 21-18110 Date: 04-12-2022
		JMK
		Architect

KENNEDY SITE PLAN	Rev. Date
Sheet No:	C-2.0