

DALEY MIDDLE SCHOOL DOOR REPLACEMENT

150 FLEMING STREET
LOWELL, MA

PREPARED FOR:
LOWELL PUBLIC SCHOOLS



City of Lowell
Public Schools



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SPECIFICATIONS

SECTION 08 11 13
HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.1 SUMMARY

- A. Provide all labor, materials, and equipment required for the complete finished and functioning installation of hollow metal doors and frames as shown and specified.
- B. Provide all panels, glass and glazing for doors, transoms, and sidelights.
- C. Provide all hardware and accessories required for a complete installation whether shown and specified or not.
- D. Demolish and properly dispose of all existing doors, frames, hardware, and associated material as required and prepare openings for new work.

1.2 SUBMITTALS

- A. Shop Drawings: Indicate door and frame elevations, internal reinforcement, cut-outs & stops for glazing, and finishes. Show all infill panels, brake metal, trim, sealants, and accessories necessary for a complete installation. Show exact sizes as verified by field measures.
- B. Product Data: Submit door and frame configurations, location of cut-outs for hardware reinforcement and glazing.

1.3 QUALITY ASSURANCE

- A. Perform Work in accordance with the following Steel Door Institute (SDI):
 1. SDI-100 Recommended Specifications for Standard Steel Doors and Frames.
 2. SDI-111 Recommended Details for Standard Steel Doors, Frames, Accessories and Related Components.
- B. Warranty: Provide manufacturer's standard warranty.

PART 2 PRODUCTS

2.1 STEEL DOORS AND FRAMES

- A. Product Description: Standard shop fabricated steel doors and welded frames; non-fire rated types; flush face with shop installed glazing.

2.2 COMPONENTS

- A. Exterior Doors (Insulated): SDI 108, 1-3/4 inch thick.
 1. Level 2 - Heavy Duty, nominal 18 gage/0.042 inch thick face sheets; Model 1, full flush design, galvanized and primed.
- B. Exterior Frames:
 1. Level 2, nominal 16 gage/0.053 inch thick material, base metal thickness, galvanized and primed.
 2. Provide frame depth to match existing or as required to fit opening; 4 inch min.
 3. Provide prefinished aluminum or galvanized steel brake metal trim as required to cover perimeter joints as required; color to match frame.
- C. Door Core:
 1. Exterior: polyurethane or equivalent insulating foam.
- D. Closures: Channel, 0.04 inch thick, flush and sealed on top; inverted on bottom.

2.3 FABRICATION

- A. Fabricate doors and frames with hardware reinforcement welded in place. Protect exterior frame hardware preparations with mortar guard boxes.
- B. Fabricate frames as face welded units.
- C. Fabricate frames to match existing openings. Field measure all openings prior to fabrication

2.4 FINISHING

- A. Steel Sheet: Galvanized to ASTM A653/A653M A40.
- B. Primer: Manufacturer's standard rust inhibitive type, shop applied, baked.
- C. Field Paint: Exterior Metal, Gloss Finish
 1. 1st Coat: MPI 107 Sherwin Williams Pro Industrial Pro-Cryl Universal Primer or equal, B66-310 Series (5-10 mils wet, 2-4 mils dry)
 2. 2nd Coat: MPI 163 Sherwin Williams Pro Industrial Zero VOC Acrylic Gloss or equal, B66 Series (Wet mils: 6.0 - 12.0 Dry mils: 2.5 - 4.0)

3. 3rd Coat: MPI 163 Sherwin Williams Pro Industrial Zero VOC Acrylic Gloss or equal, B66 Series (Wet mils: 6.0 - 12.0 Dry mils: 2.5 - 4.0)

- D. Optional Factory Finish in lieu of Field Painting:
 1. Clean, phosphatize and finish with a factory baked-on, rust-inhibitive finish paint in accordance with ANSI/SDIA250.3-2007 (R2011) Test Procedure and Acceptance Criteria for Factory Applied Finish Steel Surfaces for Steel Doors and Frames.
- E. Coat inside of exterior frame profile with bituminous coating.
 1. Bituminous Coating for exterior frame: Fibered (non-asbestos) asphalt emulsion.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Field measure opening sizes and confirm tolerances are acceptable.

3.2 PREPARATION

- A. Remove old doors and frames and prepare openings for new work.
- B. Ensure openings to receive frames are plumb, level, square, and in tolerance.
- C. Provide shims, infill, repairs, and all corrective work required to prepare openings for new frames.
- D. Provide any temporary enclosures required to maintain security, egress, safety, and weather protection as directed by the Owner.

3.3 INSTALLATION

- A. Install doors and frames in accordance with SDI-100.
- B. Coordinate installation of doors and frames with installation of hardware specified in Section 08 71 00.
- C. Coordinate door frames with masonry, wood, or other wall construction for frame anchor placement. Field verify all materials prior to fabrication. Provide all trim required to cover joints and achieve a completely finished installation.
- D. Provide glass and glazing as shown on the drawings.
- E. Set thresholds in bed of mastic and backseal.
- F. Repair minor damage to door, frame, and adjacent finishes in accordance with manufacturer's instructions and as approved by Architect.
- G. Remove and replace damaged components that cannot be successfully repaired as determined by Architect.
- H. Tolerances:
 1. Maximum Diagonal Distortion: 1/8 inch measured with straight edge, corner to corner.

3.4 ADJUSTING

- A. Adjust doors, hinges, closers, and locksets for smooth operation without binding.
- B. Provide up to 180 days of adjustment service of doors and hardware for proper operation from date of substantial completion.

3.5 CLEANING

- A. Clean doors promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that would damage finish.

3.6 PROTECTION

- A. Protect installed doors to ensure that, except for normal weathering, doors will be without damage or deterioration at time of substantial completion.

END OF SECTION

SECTION 08 17 43

FIBERGLASS REINFORCED POLYESTER (FRP) DOORS & ALUMINUM FRAMES

PART 1 GENERAL

1.1 SUMMARY

- A. Provide all labor, materials, and equipment required for the complete finished and functioning installation of fiberglass reinforced polyester (FRP) flush doors with aluminum frames as shown and specified.
- B. Provide all panels, glass and glazing for doors, transoms, and sidelights.
- C. Provide all hardware and accessories including trim required for a complete installation whether shown and specified or not.
- D. Demolish and properly dispose of all existing doors, frames, hardware, and

associated material as required and prepare openings for new work.

1.2 REFERENCES

- A. American Architectural Manufacturers Association (AAMA)
 1. AAMA 1503-98 - Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections.
- B. ASTM INTERNATIONAL (ASTM)
 1. ASTM D 256 - Determining the Pendulum Impact Resistance of Notched Specimens of Plastics.
 2. ASTM D 570 - Water Absorption of Plastics.
 3. ASTM D 638 - Tensile Properties of Plastics.
 4. ASTM D 790 - Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
 5. ASTM D 1308 - Effect of Household Chemicals on Clear and Pigmented Organic Finishes.
 6. ASTM D 1621 - Compressive Properties of Rigid Cellular Plastics.
 7. ASTM D 1623 - Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics.
 8. ASTM E 84 - Surface Burning Characteristics of Building Materials.
 9. ASTM E 90 - Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.
 10. ASTM E 283 - Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
 11. ASTM E 331 - Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.

1.3 PERFORMANCE REQUIREMENTS

- A. General: Provide door assemblies that have been designed and fabricated to comply with specified performance requirements, as demonstrated by testing manufacturer's corresponding standard systems.
- B. Air Infiltration: For a single door 3'-0" x 7'-0", test specimen shall be tested in accordance with ASTM E 283 at pressure differential of 6.27 psf. Door shall not exceed 0.58 cfm/ft².
- C. Water Resistance: For a single door 3'-0" x 7'-0", test specimen shall be tested in accordance with ASTM E 331 at pressure differential of 7.50 psf. Door shall not have water leakage.
- D. Thermal Transmission, Exterior Doors, U-Value, AAMA 1503-98: Maximum of 0.29 BTU/hr x sf x degrees F. Minimum of 55 CRF value.
- E. Surface Burning Characteristics, Class A on Interior Faces of FRP Exterior Panels and Both Faces of FRP Interior Panels, ASTM E 84:
 1. Flame Spread: Maximum of 25.
 2. Smoke Developed: Maximum of 450.
- F. Impact Strength, FRP Doors and Panels, Nominal Value, ASTM D 256: 14.0 foot-pounds per inch of notch.
- G. Tensile Strength, FRP Doors and Panels, Nominal Value, ASTM D 638: 13,000 psi.
- H. Flexural Strength, FRP Doors and Panels, Nominal Value, ASTM D 790: 21,000 psi.
- I. Water Absorption, FRP Doors and Panels, Nominal Value, ASTM D 570: 0.20 percent after 24 hours.
- J. Stain Resistance, ASTM D 1308: Face sheet unaffected after exposure to red cabbage, tea, and tomato acid. Stain removed easily with mild abrasive or FRP cleaner when exposed to crayon and crankcase oil.
- K. Compressive Strength, Foam Core, Nominal Value, ASTM D 1621: 79.9 psi.
- L. Tensile Adhesion, Foam Core, Nominal Value, ASTM D 1623: 45.3 psi.

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, including description of materials, components, fabrication, finishes, and installation.
- B. Shop Drawings: Submit manufacturer's shop drawings, including elevations, sections, and details, indicating dimensions, tolerances, materials, fabrication, doors, panels, framing, trim, hardware schedule, and finish.
- C. Samples:
 1. Door: Submit manufacturer's sample of door showing face sheets, core, framing, and finish.
 2. Color: Submit manufacturer's samples of standard colors of doors and frames.
- D. Test Reports: Submit certified test reports from qualified independent testing agency indicating doors comply with specified performance requirements.

- E. Maintenance Manual: Submit manufacturer's maintenance and cleaning instructions for doors, including maintenance and operating instructions for hardware.
- F. Warranty: Submit manufacturer's standard warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
 1. Continuously engaged in manufacturing of doors of similar type to that specified, with a minimum of 5 years successful experience.
 2. Door and frame components from same manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying opening door mark and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
- C. Handling: Protect materials and finish from damage during handling and installation.

1.7 WARRANTY

- A. Warranty doors, frames, and factory hardware against failure in materials and workmanship, including excessive deflection, faulty operation, defects in hardware installation, and deterioration of finish or construction in excess of normal weathering.
- B. Warranty Period: Ten years from date of substantial completion. In addition, a limited lifetime (while the door is in its specified application in its original installation) warranty covering: failure of corner joinery, core deterioration, delamination or bubbling of door skin.

PART 2 PRODUCTS

2.1 FRP FLUSH DOORS

- A. Flush aluminum framed doors with fiberglass reinforced polyester (FRP) face sheets.
 - Construction:
 1. Door Thickness: 1-3/4 inches.
 2. Stiles and Rails: Aluminum extrusions made from 6063-T6 alloy, minimum of 2-5/16-inch depth.
 3. Corners: Mitered.
 4. Provide joinery of 3/8-inch diameter full-width tie rods through extruded splines top and bottom integral to standard tubular shaped stiles and rails reinforced to accept hardware as specified.
 5. Securing Internal Door Extrusions: 3/16-inch angle blocks and locking hex nuts for joinery. Welds, glue, or other methods are not acceptable.
 6. Furnish extruded stiles and rails with integral reglets to accept face sheets. Lock face sheets into place to permit flush appearance.
 7. Rail caps or other face sheet capture methods are not acceptable.
 8. Extrude top and bottom rail legs for interlocking continuous weather bar.
 9. Meeting Stiles: Pile brush weatherseals. Extrude meeting stile to include integral pocket to accept pile brush weatherseals.
 10. Bottom of Door: Install bottom weather bar with nylon brush weatherstripping into extruded interlocking edge of bottom rail.
 11. Glue: Use of glue to bond sheet to core or extrusions is not acceptable.

C. Face Sheet:

- 1. Material: Fiberglass reinforced polyester, 0.120-inch thickness, finish color throughout.
- 2. Protective coating: Abuse-resistant engineered surface.
- 3. Texture: Pebble.
- 4. Color: As selected by Owner from manufacturer's standards.
- 5. Adhesion: The use of glue to bond face sheet to foam core is prohibited.

D. Core:

- 1. Material: Poured-in-place polyurethane foam.
- 2. Density: Minimum of 5 pounds per cubic foot.
- 3. R-Value: Minimum of 9.

E. Cutouts:

- 1. Manufacture doors with cutouts for required vision lites.
- 2. Factory install vision lites.

F. Hardware:

- 1. Pre-machine doors in accordance with templates from specified hardware manufacturers and hardware schedule.
- 2. Factory install hardware reinforcing.

2.2 MATERIALS

- A. Aluminum Members:
 1. Aluminum Extrusions: 6063-T6 alloy; ASTM B 221.
 2. Aluminum Sheet and Plate: ASTM B 209.
 3. Alloy and Temper: As required by manufacturer for strength, corrosion resistance, application of required finish, and control of color.
- B. Components: Door and frame components from same manufacturer.
- C. Fasteners:
 1. Material: Aluminum, 18-8 stainless steel, or other noncorrosive metal.
 2. Compatibility: Compatible with items to be fastened.
 3. Exposed Fasteners: Screws with finish matching items to be fastened.

2.3 FABRICATION

- A. Sizes and Profiles: Required sizes for door and frame units, and profile requirements shall be as indicated on the Drawings.
- B. Coordination of Fabrication: Field measure before fabrication and show recorded measurements on shop drawings.
- C. Assembly:
 1. Complete cutting, fitting, forming, drilling, and grinding of metal before assembly.
 2. Remove burrs from cut edges.
- D. Welding: Welding of doors or frames is not acceptable.
- E. Fit:
 1. Maintain continuity of line and accurate relation of planes and angles.
 2. Secure attachments and support at mechanical joints with hairline fit at contacting members.

2.4 ARCHITECTURAL PANELS

- A. Insulated FRP Panels:
 1. Insulated Panels: Two 0.120-inch minimum thickness sheets.
 2. Core: Foam polyurethane core of a minimum of 5 pounds per cubic foot density.
 3. Form components to function as single unit.
 4. R-Value: Minimum of 4 for 1-inch panels.
 5. Size: As indicated on the Drawings.
 6. Thickness: 1 inch.
- B. Face Sheets: 0.120-inch thickness, finish color throughout. Abuse-resistant engineered surface.
 1. Texture: Pebble.
 2. Color: To match doors.
- C. Face Sheet Flame Spread and Smoke Developed Rating:
 1. Class A flame spread and smoke developed rating on interior faces of exterior panels and both faces of interior panels.
 2. Flame Spread, ASTM E 84: Maximum of 25.
 3. Smoke Developed, ASTM E 84: Maximum of 450.

CONTINUE TO NEXT SHEET

DALEY MIDDLE SCHOOL
DOOR REPLACEMENT

150 FLEMING STREET
LOWELL, MA

PREPARED FOR:
LOWELL PUBLIC SCHOOLS

MARK	DATE	ISSUED FOR BID	DESCRIPTION
0	07-15-15		

PROJECT NO: 14401-06

MODEL FILE: A-1.dwg

DRAWN BY: LSP

CHKD BY:

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SHEET TITLE

COVER &
SPECIFICATION

A-1

SHEET 1 OF 3

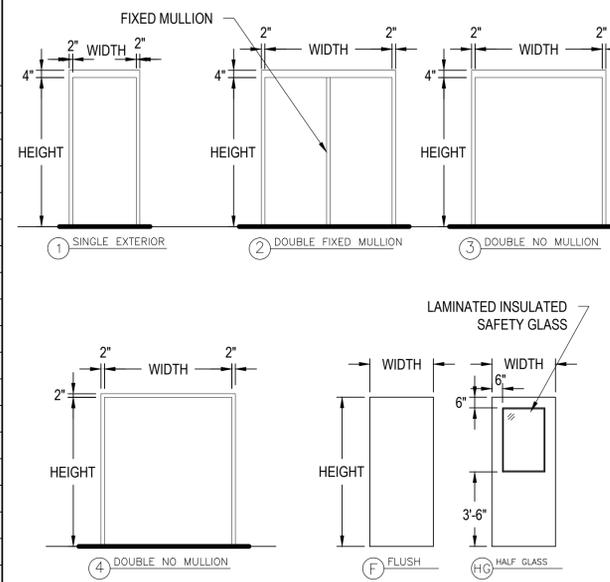
DOOR & FRAME SCHEDULE

DOOR & FRAME TYPES

GENERAL NOTES:

NO.	SIZE			TYPE	MAT'L	FINISH	FIRE RATING	FRAME			HARDWARE SET NO.	NOTES
	WIDTH	HEIGHT	THK.					TYPE	MAT'L	FINISH		
01	(2) 3'-0"	7'-0"	1 3/4"	ETR	-	-	---	ETR	ETR	ETR	ETR	
02	(2) 3'-0"	7'-0"	1 3/4"	ETR	-	-	---	ETR	ETR	ETR	ETR	
03	(2) 3'-0"	7'-0"	1 3/4"	ETR	-	-	---	ETR	ETR	ETR	13	
04	(2) 3'-0"	7'-0"	1 3/4"	F	HM	PT	---	2	HM	PT	15	
05	(2) 3'-0"	7'-0"	1 3/4"	F	FRP	-	---	2	AL	AN	16	
06	(2) 3'-0"	7'-0"	1 3/4"	F	FRP	-	---	2	AL	AN	17	
07	(2) 2'-8"	7'-0"	1 3/4"	F	FRP	-	---	3	AL	AN	12	
08	3'-6"	7'-0"	1 3/4"	HG	FRP	-	---	1	AL	AN	06	
09	3'-6"	7'-0"	1 3/4"	F	HM	PT	---	1	HM	PT	08	
10	(2) 2'-8"	7'-0"	1 3/4"	F	FRP	-	---	3	AL	AN	12	
11	(2) 3'-6"	6'-4"	1 3/4"	F	HM	PT	---	4	HM	PT	21	
12	(2) 2'-8"	7'-0"	1 3/4"	F	FRP	-	---	3	AL	AN	11	
13	(2) 2'-8"	7'-0"	1 3/4"	F	FRP	-	---	3	AL	AN	11	
14	3'-0"	7'-0"	1 3/4"	F	HM	PT	---	1	HM	PT	09	
15	3'-0"	7'-0"	1 3/4"	F	HM	PT	---	1	HM	PT	09	

ABBREVIATIONS:
 HM = HOLLOW METAL
 PT = PAINT
 FRP = FIBERGLASS REINFORCED POLYESTER
 F = FLUSH
 HG = HALF GLASS
 ETR = EXISTING TO REMAIN
 AL = ALUMINUM
 AN = ANODIZED

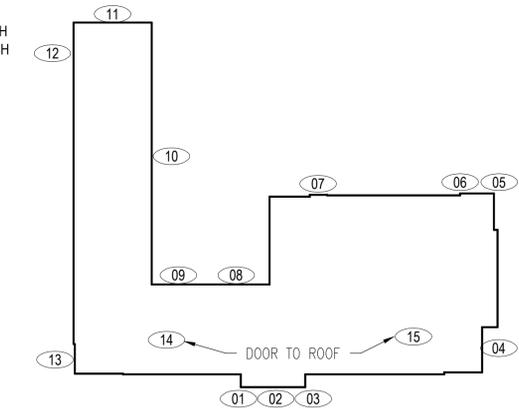
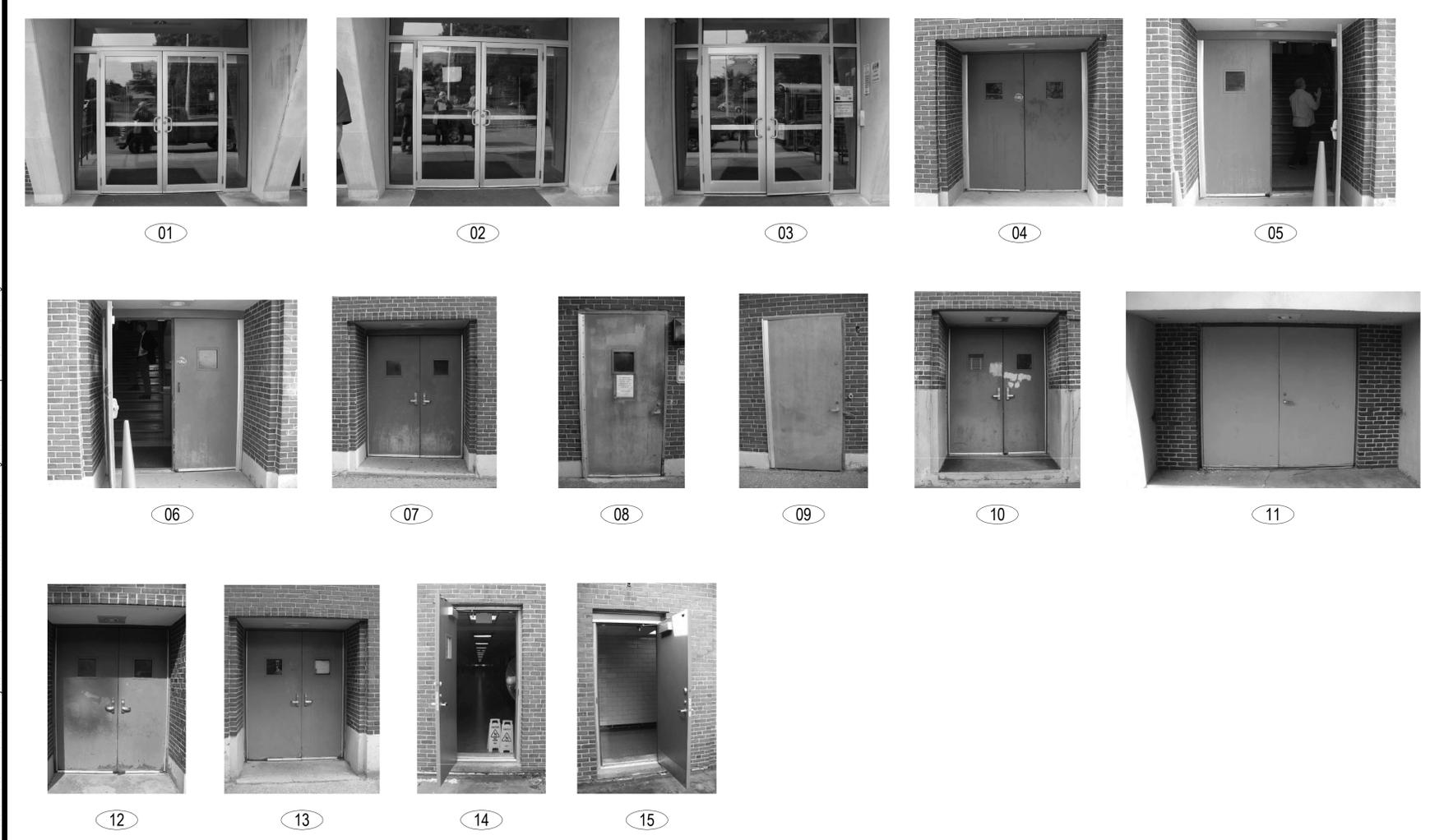


- ALL DIMENSIONS TO BE VERIFIED IN FIELD.
- PAINT ALL FRAMES SCHEDULED TO REMAIN.
- PATCH AND/OR REPAIR ANY DAMAGE TO ADJACENT SURFACES; PRIME & PAINT.

DOOR HARDWARE SETS

- GENERAL:
 1. ALL WINKHAUS CYLINDERS SHALL BE SALVAGED AND REINSTALLED.
 2. ALL DOGGING DEVICES SHALL BE OPERABLE WITHOUT KEY.
- SET #1 - 5 NOT USED
- SET #6 SINGLE EGRESS DOOR WITH ACCESS CONTROL
 CONTINUOUS MORTISED GEARED HINGE.
 RIM EXIT DEVICE, LOCKSET WITH REMOVABLE CORE & LEVER HANDLE AND DOGGING.
 ELECTRIC STRIKE.
 HEAVY DUTY CLOSER WITH STOP & HOLD-OPEN.
 FULL PERIMETER WEATHERSTRIPPING.
 ARMOR PLATE.
 1 DOOR CONTACT.
 POWER SUPPLY FOR ELECTRIC HARDWARE.
- SET #7 NOT USED
- SET #8 SINGLE UTILITY DOOR
 CONTINUOUS MORTISED GEARED HINGE.
 LEVER HANDLED MORTISE DEADBOLT LOCK WITH REMOVABLE CORE; KEY OUTSIDE, THUMBTURN INSIDE.
 HEAVY DUTY CLOSER WITH HOLD-OPEN & STOP.
 FULL PERIMETER WEATHERSTRIPPING.
 EXTRUDED ALUMINUM THRESHOLD.
 KICK PLATE.
 1 DOOR CONTACT.
- SET #9 SINGLE UTILITY DOOR
 CONTINUOUS MORTISED GEARED HINGE.
 LEVER HANDLED MORTISE DEADBOLT LOCKSET, REMOVABLE CORE, DEADBOLT BY KEY ON BOTH SIDES.
 HEAVY DUTY CLOSER WITH STOP & HOLD-OPEN.
 FULL PERIMETER WEATHERSTRIPPING.
 EXTRUDED ALUMINUM THRESHOLD.
 KICK PLATE.
 1 DOOR CONTACT.
- SET #10 NOT USED
- SET #11 DOUBLE EGRESS DOORS WITH NO MULLION; NO ACCESS CONTROL.
 2 CONTINUOUS MORTISED GEARED HINGES.
 2 VERTICAL ROD EXIT DEVICES.
 ONE LOCKSET WITH REMOVABLE CORE & RECESSED FLUSH PULL (ACTIVE LEAF); NO EXTERIOR HANDLE ON OTHER LEAF.
 2 HEAVY DUTY CLOSERS WITH HOLD-OPEN & STOP.
 FULL PERIMETER WEATHERSTRIPPING, ASTRAGAL.
 2 BOTTOM SWEEPS.
 EXTRUDED ALUMINUM ADA CONFORMING THRESHOLD.
 2 KICK PLATES.
 2 DOOR CONTACTS.
- SET #12 DOUBLE EGRESS DOORS WITH NO MULLION & ACCESS CONTROL.
 ONE CONTINUOUS MORTISED GEARED ELECTRIC HINGE OR HINGE WITH ELECTRIC POWER TRANSFER DEVICE (ACTIVE LEAF).
 ONE CONTINUOUS MORTISED GEARED HINGE.
 ONE VERTICAL ROD EXIT DEVICE, WITH RECESSED FLUSH PULL AND PUSH PAD MONITOR SWITCH & ELECTRIC LATCH RETRACTION.
 LOCKSET WITH REMOVABLE CORE.
 ONE VERTICAL ROD EXIT DEVICE, NO EXTERIOR HARDWARE.
 2 HEAVY DUTY CLOSERS WITH HOLD-OPEN AND STOP.
 FULL PERIMETER WEATHERSTRIPPING, ASTRAGAL.
 2 BOTTOM SWEEPS.
 EXTRUDED ALUMINUM ADA CONFORMING THRESHOLD.
 2 KICK PLATES.
 2 DOOR CONTACTS.
 POWER SUPPLY FOR ELECTRIC HARDWARE.
- SET #13 RETROFIT DOUBLE EGRESS DOORS WITH NO MULLION & ACCESS CONTROL.
 ELECTRIC POWER TRANSFER DEVICE (ACTIVE LEAF).
 ONE VERTICAL ROD EXIT DEVICE, WITH PUSH PAD MONITOR SWITCH & ELECTRIC LATCH RETRACTION.
 EXISTING PULL TO REMAIN.
 REUSE EXISTING CORE.
 2 DOOR CONTACTS.
 POWER SUPPLY FOR ELECTRIC HARDWARE.
- SET #14 NOT USED
- SET #15 DOUBLE EGRESS DOORS WITH FIXED MULLION; NO ACCESS CONTROL.
 2 CONTINUOUS MORTISED GEARED HINGES.
 2 RIM EXIT DEVICES, EXIT ONLY FUNCTION.
 2 HEAVY DUTY CLOSERS WITH STOP.
 FULL PERIMETER WEATHERSTRIPPING.
 2 BOTTOM SWEEPS.
 EXTRUDED ALUMINUM ADA CONFORMING THRESHOLD.
 2 KICK PLATES.
 2 DOOR CONTACTS.
- SET #16 DOUBLE EGRESS DOORS WITH FIXED MULLION; NO ACCESS CONTROL.
 2 CONTINUOUS MORTISED GEARED HINGES.
 2 RIM EXIT DEVICES, EXIT ONLY FUNCTION.
 2 HEAVY DUTY CLOSERS WITH HOLD OPEN AND STOP.
 FULL PERIMETER WEATHERSTRIPPING.
 2 BOTTOM SWEEPS.
 EXTRUDED ALUMINUM ADA CONFORMING THRESHOLD.
 2 KICK PLATES.
 2 DOOR CONTACTS.
- SET #17 DOUBLE EGRESS DOORS WITH FIXED MULLION; NO ACCESS CONTROL.
 2 CONTINUOUS MORTISED GEARED HINGES.
 2 RIM EXIT DEVICES WITH DOGGING.
 ONE LOCKSET WITH REMOVABLE CORE & RECESSED FLUSH PULL (ACTIVE LEAF), NO EXTERIOR HANDLE ON OTHER LEAF.
 2 HEAVY DUTY CLOSERS WITH HOLD OPEN AND STOP.
 FULL PERIMETER WEATHERSTRIPPING.
 2 BOTTOM SWEEPS.
 EXTRUDED ALUMINUM ADA CONFORMING THRESHOLD.
 2 KICK PLATES.
 2 DOOR CONTACTS.
- SET #18 - 20 NOT USED
- SET #21 DOUBLE UTILITY DOORS WITH NO MULLION & NO ACCESS CONTROL.
 2 CONTINUOUS MORTISED GEARED HINGES.
 ONE LEVER HANDLED MORTISE LOCKSET, ENTRY FUNCTION WITH REMOVABLE CORE (ACTIVE LEAF).
 2 HEAVY DUTY SURFACE DEADBOLTS INSIDE, NO EXTERIOR HANDLE (INACTIVE LEAF).
 2 HEAVY DUTY CLOSERS WITH HOLD-OPENS AND STOPS.
 FULL PERIMETER WEATHERSTRIPPING, ASTRAGAL.
 2 BOTTOM SWEEPS.
 EXTRUDED ALUMINUM ADA CONFORMING THRESHOLD.
 2 ARMOR PROTECTION PLATES.
 2 DOOR CONTACTS.

PHOTOGRAPHS



FLOOR PLAN
 SCALE: NTS



DALEY MIDDLE SCHOOL
 DOOR REPLACEMENT
 150 FLEMING STREET
 LOWELL, MA
 PREPARED FOR:
 LOWELL PUBLIC SCHOOLS

MARK	DATE	ISSUED FOR BID	DESCRIPTION
0	07-15-15		

PROJECT NO: 14401-06
 MODEL FILE: A-3.dwg
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 CHKD BY:
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SHEET TITLE
 PLAN, SCHEDULE,
 AND PHOTOS

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