



ADDENDUM NO. 1

Project: Norris High School Strength Training & Cardio Area
Location: Norris High School Firth, NE

Project No.: L13022
Date: 26 April 2013

This Addendum is issued by the Architect to all bidders of record prior to receipt of proposals. Bidders shall acknowledge receipt of this addendum by so indicating on the Bid Form. Failure to do so may subject Bidder to disqualification.

All information and instructions given herein shall become a part of the Contract Documents.

PROJECT MANUAL

1. Section 000105 – Certifications Page
 - A. Include Certifications Page attachment with page number 000105-1 as first page in section noted.
2. Section 011010 – Scopes of Work
 - A. Reference Section 1.3 Description of Work; Section I – Scope #9 – Framing and Drywall
 - i. Add the following information within the section:
 1. 11). This scope is responsible for the fluid-applied membrane air barrier at the east entry as noted on Sheet A8.1, Section J9.
 2. 12). This scope is responsible for the sheathing and air barrier as shown on Sheet A8.1, Detail E20.
3. Section 023500 – Alternates
 - A. Add entire section titled "012300 Alternates" as attached.
4. Section 087100 – Door Hardware
 - A. Add entire section titled "087100 Door Hardware" as attached.
5. Section 096005 Water Vapor Emission Control System for Concrete Floors
 - A. Part 3 – Execution; Subset 3.01 – Examination; Item A:
 - i. Add the following text:
 1. 1. Existing terrazzo is to remain in place, becoming the substrate for the new finish floor as specified in the RFS. Existing concrete slabs beneath existing terrazzo areas are not considered within the area to which this section applies.
 2. 2. Areas that previously were covered with carpet, VCT or other material that has been defined for demolition are considered within the scope to which this section applies.
 - a. This area roughly includes the existing slab between grid lines A through E and 11 through 12.
6. Section 233100 – HVAC Ducts and Casings
 - A. Part 2 – Products
 - i. The following manufacturers have received prior approval for bidding purposes subject to shop drawing review:
 1. Equipment: Spiral Ductwork & Fittings
Manufacturer: Spiral Pipe of Texas

7. Section 233300 – Air Duct Accessories
 - A. Part 2 – Products
 - i. The following manufacturers have received prior approval for bidding purposes subject to shop drawing review:
 1. Equipment: Diffusers, Registers & Grilles
Manufacturer: Nailor Industries, Inc.
8. Section 321723 – Synthetic Turf System
 - A. Part 2 – Products; Subset 2.1 – Acceptable Manufacturers
 - i. Sporturf Midwest, LLC – Fast Grass 755E with 8MM pad has been accepted as an approved substitution.
 - B. Part 3 – Execution; Subset 3.4 – Markings
 - i. Replace Items #2 & #3 with the following and add item #4 as noted:
 1. 2. Inlays shall conform to the manufacturers specifications, directions, and recommendations for installation.
 2. 3. Striping layouts shall be accurately surveyed by the Contractor before installation of inlaid field markings.
 3. 4. Install inlays only when the surface is completely dry. Adhere all inlays securely into place. Inlays shall not be loose laid and sewn into place.

DRAWINGS

1. Reference Sheet AD1.1 – Demolition Floor Plans & RCP
 - A. Detail A13 – First Floor Demolition Plan
 - i. See Attachment ADD 1.1 for additional direction on the demolition plan noted by clouded designations.
 - B. Demolition Notes
 - i. Replace note 10 with the following text:
 1. Remove all flooring material and wall base. Prepare floor to receive new finish.
 - ii. Add the following notes:
 1. 19. HM Frame, flush wood door & hardware to be reused for Janitor 103.
 2. 20. HM Frame, flush wood door & hardware to be reused for Office 107.
2. Reference Sheet A1.2 – Enlarged Plans, Structural Plans & Details
 - A. Detail A14
 - i. Reference existing masonry wall separating Ramp 105 & Entry 106.
 1. See picture below for condition of remaining existing CMU wall.

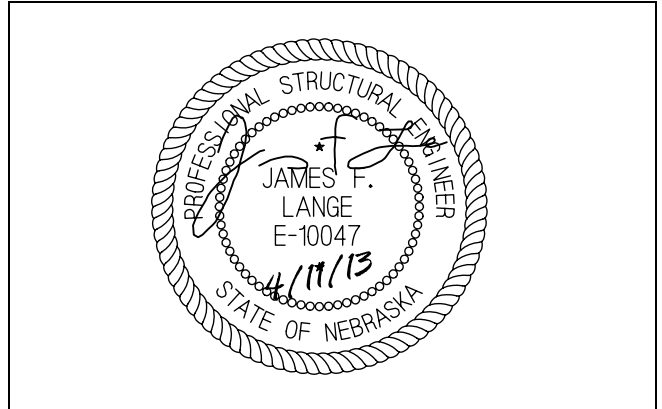
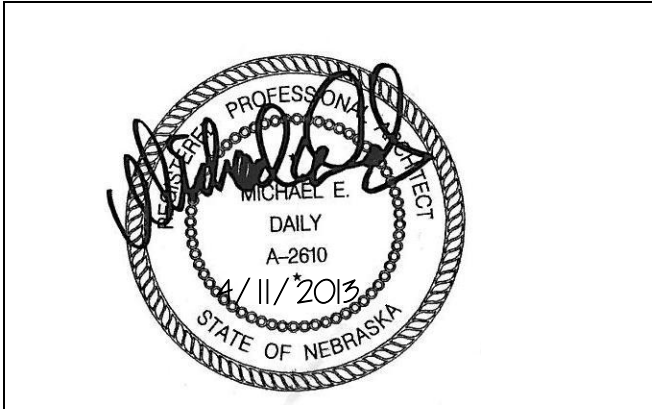


2. Repair existing wall with visible crack, from new opening to exterior wall which is to be relayed from the stair stepping crack up to the new lintel. Reinforce the cells below the lintel bearing and the adjacent cell with a #5 bar and grout solid.
3. Sheet A9.1 – Door & Frame Elevations, Finish Plans, RFS & Materials List
 - A. Reference Door Schedule
 - i. Replace Door Schedule with revised schedule as shown on Attachment ADD 1.3.
 - B. Reference Detail A16
 - i. See Attachment ADD 1.2 Detail 1 for the details of Add Alternate No. 1:
 1. Base bid to include inlaid white turf yard lines - five (5) lines (4" w x width of designated area)
 2. Add Alternate #1 to include inlaid white turf markings:
 - a. Twenty (20) hash marks (4" x 3'-0")
 - b. Nine (9) numbers (2'-0" x 3'-0)
 - A. Font TBD
 - C. HM-2 Frame
 - i. See ADD 1.3 Detail 1 for the elevation of Hollow Metal Frame HM-2.
 - ii. Transom infill panel to match fire rating of door (90 minute).
 - D. HM Frame Details
 - i. See ADD1.3 Detail 2 for hollow metal frame details for varying conditions within the project.
4. Reference Sheet E2.1 – First Floor Lighting & Electrical
 - A. Detail A15 – First Floor Plan – Electrical
 - i. Door 100 at east end of Corr E100
 1. Relocate existing hold open to align with swing of new door.

END OF ADDENDUM

SECTION 000105

CERTIFICATIONS PAGE



I, Michael E. Daily, am the Coordinating Professional on the Norris High School Weight Room Renovation. The technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly registered Architect under the laws of the State of Nebraska.

I hereby certify that the portion of this technical submission described below was prepared by me or under my direct supervision and responsible charge. I am a duly registered Engineer under the laws of the State of Nebraska.

Michael E. Daily	A-2610
Name (Printed)	Registration Number

James F. Lange	E-10047
Name (Printed)	Registration Number

Drawings covered by this Seal:

All General and Architectural Drawings (G and A Series Drawings).

Drawings covered by this Seal:

All Structural Drawings (S Series Drawings).

Specification Sections covered by this Seal:

All Divisions 1 through Division 14 sections excluding Sections-033000, 051200

Specification Sections covered by this Seal:

Sections-033000, 051200

Date Issued: 4/11/2013

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**SECTION 012300
ALTERNATES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Description of alternates.
- B. Documentation of changes to Contract Price and Contract Time.

1.02 RELATED REQUIREMENTS

- A. Section 002113 - Instructions to Bidders: Instructions for preparation of pricing for alternatives.
- B. Section 005000 - Contracting Forms and Supplements: Incorporating monetary value of accepted alternatives.

1.03 ACCEPTANCE OF ALTERNATES

- A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted alternates will be identified in the Owner-Contractor Agreement.
- B. Coordinate related work and modify surrounding work to integrate the Work of each alternate.

1.04 SCHEDULE OF ALTERNATES

- A. Alternative No. One - Synthetic Turf Markings: The Contractor shall state the amount to add to the Base Bid to perform the following changes:
 - 1. Installation of twenty (20) hash marks [3'-0" x 4" in size] and nine (9) numbers [3'-0" x 1'-8" in size] into the synthetic turf system as shown in Detail A16 on Sheet A9.1. All markings shall be white and tufted in-place, inlaid or glued and cut in at the appropriate distances within the base bid turf system. Shop drawings shall be submitted with markings dimensioned for approval.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 087100
DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Hardware for doors.
- B. Electrically operated and controlled hardware.

1.02 RELATED REQUIREMENTS

- A. Section 081113 - Hollow Metal Doors and Frames.
- B. Section 081416 - Flush Wood Doors.
- C. Section 084313 - Aluminum-Framed Storefronts: Hardware for doors in storefront, including new hardware as scheduled.
 - 1. Re-moval and re-installation of existing hardward onto existing storefront doors being relocated.
- D. Electrical Contract Documents.

1.03 REFERENCE STANDARDS

- A. 2010 ADA Standards for Accessible Design.
- B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2012.
- C. BHMA A156.1 - American National Standard for Butts and Hinges; Builders Hardware Manufacturers Association, Inc.; 2006 (ANSI/BHMA A156.1).
- D. BHMA A156.2 - American National Standard for Bored and Preamsembled Locks & Latches; Builders Hardware Manufacturers Association; 2011 (ANSI/BHMA A156.2).
- E. BHMA A156.3 - American National Standard for Exit Devices; Builders Hardware Manufacturers Association; 2008 (ANSI/BHMA A156.3).
- F. BHMA A156.4 - American National Standard for Door Controls - Closers; Builders Hardware Manufacturers Association, Inc.; 2008 (ANSI/BHMA A156.4).
- G. BHMA A156.5 - American National Standard for Auxiliary Locks & Associated Products; Builders Hardware Manufacturers Association; 2010 (ANSI/BHMA A156.5).
- H. BHMA A156.6 - American National Standard for Architectural Door Trim; Builders Hardware Manufacturers Association; 2010 (ANSI/BHMA A156.6).
- I. BHMA A156.7 - American National Standard for Template Hinge Dimensions; Builders Hardware Manufacturers Association; 2003 (ANSI/BHMA A156.7).
- J. BHMA A156.8 - American National Standard for Door Controls - Overhead Stops and Holders; Builders Hardware Manufacturers Association, Inc.; 2010 (ANSI/BHMA A156.8).
- K. BHMA A156.12 - American National Standard for Interconnected Locks & Latches; Builders Hardware Manufacturers Association; 2005 (ANSI/BHMA A156.12).
- L. BHMA A156.13 - American National Standard for Mortise Locks & Latches; Builders Hardware Manufacturers Association; 2005 (ANSI/BHMA A156.13).
- M. BHMA A156.15 - American National Standard for Release Devices - Closer Holder, Electromagnetic and Electromechanical; Builders Hardware Manufacturers Association; 2011 (ANSI/BHMA A156.15).
- N. BHMA A156.16 - American National Standard for Auxiliary Hardware; Builders Hardware Manufacturers Association; 2008 (ANSI/BHMA A156.16).
- O. BHMA A156.18 - American National Standard for Materials and Finishes; Builders Hardware Manufacturers Association, Inc.; 2006 (ANSI/BHMA A156.18).

- P. BHMA A156.21 - American National Standard for Thresholds; Builders Hardware Manufacturers Association; 2009 (ANSI/BHMA A156.21).
- Q. BHMA A156.22 - American National Standard for Door Gasketing and Edge Seal Systems, Builders Hardware Manufacturers Association; 2012 (ANSI/BHMA A156.22).
- R. BHMA A156.115 - Hardware Preparation in Steel Doors and Steel Frames; 2006.
- S. BHMA A156.115W - Hardware Preparation in Wood Doors with Wood or Steel Frames; 2006.
- T. DHI A115-W series.
- U. DHI (LOCS) - Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames; Door and Hardware Institute; 2004.
- V. DHI WDHS.3 - Recommended Locations for Architectural Hardware for Flush Wood Doors; Door and Hardware Institute; 1993; also in WDHS-1/WDHS-5 Series, 1996.
- W. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2013.
- X. NFPA 101 - Code for Safety to Life from Fire in Buildings and Structures; National Fire Protection Association; 2012.
- Y. NFPA 105 - Installation of Smoke Door Assemblies.
- Z. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association; 1995.
- AA. UL (BMD) - Building Materials Directory; Underwriters Laboratories Inc.; current edition.
- AB. UL 10C – Positive Pressure Fire Tests of Door Assemblies; Underwriters Laboratories Inc.; current edition.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the manufacture, fabrication, and installation of products onto which door hardware will be installed.
- B. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- C. Convey Owner's keying requirements to manufacturers.
- D. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished specifically for this project. Submittals that contain non-project specific information will be rejected.
- C. Shop Drawings:
 1. Indicate locations and mounting heights of each type of hardware, schedules, catalog cuts, electrical characteristics and connection requirements.
 2. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 3. Submit manufacturer's parts lists and templates.
- D. Hardware Schedule: Detailed listing of each item of hardware to be installed on each door. Use door numbering scheme as included in the Contract Documents. Identify electrically operated items and include power requirements.

- E. Keying Schedule: Submit for approval of Owner.
- F. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention.
- G. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance. See Section 017800.
- H. Keys: Deliver with identifying tags to site by security shipment direct from hardware supplier.
- I. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer. Submit per Section 017800.
- J. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 016000 - Product Requirements, for additional provisions.
 - 2. Tools: One set of all special wrenches or tools applicable to each different or special hardware component, whether supplied by the hardware component manufacturer or not.

1.06 QUALITY ASSURANCE

- A. Perform work in accordance with the following requirements:
 - 1. NFPA 101.
 - 2. NFPA 80.
 - 3. NFPA 252.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- C. Hardware Supplier Qualifications: Company specializing in supplying commercial door hardware with 3 years of experience.
- D. Hardware Supplier Personnel: Employ an Architectural Hardware Consultant (AHC) to assist in the work of this section.

1.07 REGULATORY REQUIREMENTS

- A. Conform to applicable code for requirements applicable to fire rated doors and frames.
- B. All Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for the purpose specified and indicated.
- C. Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated as well as NFPA 70 "National Electrical Code".

1.08 PRE-INSTALLATION MEETING

- A. Convene one week prior to commencing work of this section.
- B. Keying Conference: Conduct keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.

1.09 DELIVERY, STORAGE, AND HANDLING

- A. Package hardware items individually; label and identify each package with door opening code to match hardware schedule.

1.10 COORDINATION

- A. Coordinate the work with other directly affected sections involving manufacture or fabrication of internal reinforcement for door hardware.
- B. Furnish templates for door and frame preparation.

- C. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.
- D. Coordinate Owner's keying requirements during the course of the Work.
- E. Coordinate removal and reuse of existing door hardware on existing aluminum storefront doors installed within new alum
- F. Door and Frame Preparation: Related Division 08 Sections (Steel, Aluminum and Wood) doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.11 WARRANTY

- A. See Section 017800 - Closeout Submittals, for additional warranty requirements.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
 - 1. Structural failures including excessive deflection, cracking, or breakage.
 - 2. Faulty operation of the hardware.
 - 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 4. Electrical component defects and failures within the systems operation.
- C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.
 - 1. Provide 25 year warranty for manual door closers.
 - 2. Ten years for mortise locks and latches.
 - 3. Seven years for heavy duty cylindrical (bored) locks and latches.
 - 4. Five years for exit hardware.
 - 5. Two years for electromechanical door hardware.

1.12 MAINTENANCE PRODUCTS

- A. Provide special wrenches and tools applicable to each different or special hardware component.
- B. Provide maintenance tools and accessories supplied by hardware component manufacturer.

PART 2 PRODUCTS

2.01 DOOR HARDWARE - GENERAL

- A. Provide all hardware specified or required to make doors fully functional, compliant with applicable codes, and secure to the extent indicated.
- B. Provide all items of a single type of the same model by the same manufacturer.
- C. Provide products that comply with the following:
 - 1. Applicable provisions of federal, state, and local codes.
 - 2. 2010 ADA Standards for Accessible Design.
 - 3. Applicable provisions of NFPA 101, Life Safety Code.
 - 4. Fire-Rated Doors: NFPA 80.
 - 5. All Hardware on Fire-Rated Doors: Listed and classified by UL as suitable for the purpose specified and indicated.
 - 6. Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.
- D. Electrically Operated and/or Controlled Hardware: Provide all power supplies, power transfer hinges, relays, and interfaces required for proper operation; provide wiring between hardware and control components and to building power connection.
- E. Finishes: Identified in schedule.

2.02 HINGES

- A. Provide door hardware as indicated in Schedule at end of section.

2.03 LOCKS AND LATCHES

- A. Locks: Provide a lock for every door, unless specifically indicated as not requiring locking.
- B. Keying Requirements:
 - 1. General: Supplier will meet with Lexington Public Schools to finalize keying requirements and obtain final keying instructions in writing.
 - 2. Key System: Provide extension of existing keying system.
- C. Construction Keying: Provide construction master keyed cylinders or temporary keyed construction cores where specified. Provide construction master keys in quantity as required by project Contractor. Replace construction cores with permanent cores. Furnish permanent cores for installation as directed under specified "Keying Conference".

2.04 CYLINDRICAL LOCKSETS

- A. Cylindrical Locksets: See hardware schedule at the end of this section.
- B. Locking Functions: As defined in BHMA A156.2, and as follows:

2.05 MORTISE LOCKSETS

- A. Mortise Locksets: See hardware schedule at the end of this section.
- B. Locking Functions: As defined in BHMA A156.13, and as follows:

2.06 FLUSHBOLTS

- A. Flushbolts: Lever extension bolts in leading edge of door, one bolt into floor, one bolt into top of frame.
 - 1. Pairs of Swing Doors: At inactive leaves, provide flush bolts of type as required to comply with code.
 - 2. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified automatic, self-latching, and manual flush bolts and surface bolts. Manual flush bolts to be furnished with top rod of sufficient length to allow bolt location approximately six feet from the floor. Furnish dust proof strikes for bottom bolts. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

2.07 EXIT DEVICES

- A. Exit Devices: See hardware schedule at the end of this section.
- B. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 - 1. Fire Exit Removable Mullions: Provide keyed removable mullions for use with fire exit devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252. Mullions to be used only with exit devices for which they have been tested.
- C. Except on fire rated doors, provide exit devices with hex key dogging device to hold the push bar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
- D. Flush End Caps: Provide heavy weight impact resistant flush end caps made of architectural metal in the same finish as the devices as in the Hardware Sets. Plastic end caps will not be acceptable.
- E. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty trim with cold forged escutcheons, beveled edges, and four threaded studs for thru-bolts.

1. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets. Provided free-wheeling type trim where indicated.
 2. Where function of exit device requires a cylinder, provide an interchangeable core type keyed cylinder (Rim or Mortise) as specified in Hardware Sets.
- F. Vertical Rod Exit Devices: Provide and install interior surface and concealed vertical rod exit devices as Less Bottom Rod (LBR) unless otherwise indicated.
- G. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
- H. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
- I. Rail Sizing: Provide exit device rails factory sized for proper door width application.
- J. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- K. Tube Steel Removable Mullions: ANSI/BHMA A156.3 removable steel mullions with malleable-iron top and bottom retainers and a primed paint finish. Provide keyed removable feature,

2.08 CLOSERS

- A. Closers: See hardware schedule at the end of this section.
- B. Complying with BHMA A156.4-Grade 1.

2.09 STOPS AND HOLDERS

- A. Stops: Complying with BHMA A156.8; provide a stop for every swinging door, unless otherwise indicated.
- B. Overhead Door Stops and Holders: ANSI/BHMA A156.6, Grade 1 certified overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.
- C. Magnetic Holder/Releases: Complying with BHMA A156.15; fail safe; doors release to close automatically when electrical current is interrupted; holding force: 25 to 40 pounds-force.

2.10 GASKETING AND THRESHOLDS

- A. Gasketing and Thresholds: See hardware schedule at end of section.
- B. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

2.11 PROTECTION PLATES AND ARCHITECTURAL TRIM

- A. Protection Plates: See schedule at end of this section.
- B. Protection Plates:
1. Kickplate: Provide on push side of every door with closer, except storefront and all-glass doors unless otherwise indicated.
 2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

2.12 KEYING

- A. Door Locks: Keyed according to outcome of keying meeting with Owner.
1. 6 master keys.
 2. 3 change keys for each lock.

2.13 FINISHES

- A. Finishes: Identified in schedule at end of section.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as indicated on shop drawings.
- B. Verify that electric power is available to power operated devices and of the correct characteristics.

3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Use templates provided by hardware item manufacturer.
- C. Do not install surface mounted items until finishes applied to substrate are complete.
- D. Install hardware on fire-rated doors and frames in accordance with code and NFPA 80.
- E. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.
- F. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Section 079005 - Joint Sealers: Silicone Weather Seal Sealant.
- G. Mounting heights for hardware from finished floor to center line of hardware item: As listed in Schedule, unless otherwise noted:
 - 1. For steel doors and frames: Comply with DHI "Recommended Locations for Architectural Hardware for Steel Doors and Frames."
 - 2. For wood doors: Comply with DHI "Recommended Locations for Architectural Hardware for Wood Flush Doors."

3.03 FIELD QUALITY CONTROL

- A. Field inspection and testing will be performed under provisions of Section 014000.
- B. Provide an Architectural Hardware Consultant to inspect installation and certify that hardware and installation has been furnished and installed in accordance with manufacturer's instructions and as specified.

3.04 ADJUSTING

- A. Adjust work under provisions of Section 017000.
- B. Adjust hardware for smooth operation.
- C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

3.05 CLEANING

- A. Clean adjacent surfaces soiled by hardware installation. Clean finished hardware per manufacturer's instructions after final adjustments has been made. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.

3.06 PROTECTION

- A. Protect finished Work under provisions of Section 017000.
- B. Do not permit adjacent work to damage hardware or finish.

3.07 HARDWARE SCHEDULE

1. MK - McKinney
2. RO - Rockwood
3. SA - Sargent
4. HS - HES
5. RF - Rixson
6. PE - Pemko
7. SU - Securitron

Set: 1.0

Doors: 100

Description: Doors w/ Magnetic Hold Opens

6 Hinge (heavy weight)	T4A3786 5" x 4-1/2"	US26D	MK
2 Exit Device	12 NB8713 ETL	US32D	SA
2 Door Closer	351 P10	EN	SA
2 Kickplate	K1050 10" x 2" LDW 4BE CSK	US32D	RO
2 Electromagnetic Holder	998	689	RF
1 Gasketing	S88D		PE
1 Astragal	S771BL		PE

Notes: Wiring by electrical contractor

Set: 2.0

Doors: 101b, 106

Description: Interior Alum Door

1 Continuous Hinge	MCK-12HD	BZ	MK
1 Exit Device	AD8504 862	US32D	SA
1 Door Closer	351 PSH 351D 581-2	EN	SA
1 Wall Stop	409	US32D	RO

Set: 3.0

Doors: 102

Description:

6 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
2 Exit Device	NB8713 ETL	US32D	SA
2 Door Closer	351 PSH	EN	SA
2 Kickplate	K1050 10" x 2" LDW 4BE CSK	US32D	RO
2 Wall Stop	409	US32D	RO

Set: 4.0

Doors: 104

Description:

6 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
2 Flush Bolt	555	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Storeroom Lock	11G04 LL	US26D	SA

Set: 5.0

Doors: R100

Description: Relocated Existing Alum Doors

Notes: Relocate existing exterior doors and hardware

Set: 6.0

Doors: R101a

Description: Relocated Alum Doors w/ New Hardware

2 Continuous Hinge	MCK-12HD	BZ	MK
1 Removable Mullion	L980A	US28	SA
1 Exit Device	AD8504 862	US32D	SA
1 Exit Device	AD8510 862	US32D	SA
2 Door Closer	351 PSH 351D 581-2	EN	SA

Set: 7.0

Doors: R103

Description: Relocated Door, Frame & Hardware

Notes: Relocate existing door, frame & hardware

Set: 8.0

Doors: R107

Description: Relocated door & hardware

1 Wall Stop	409	US32D	RO
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Notes: Remainder of existing hardware to remain

Set: 9.0

Doors: R102

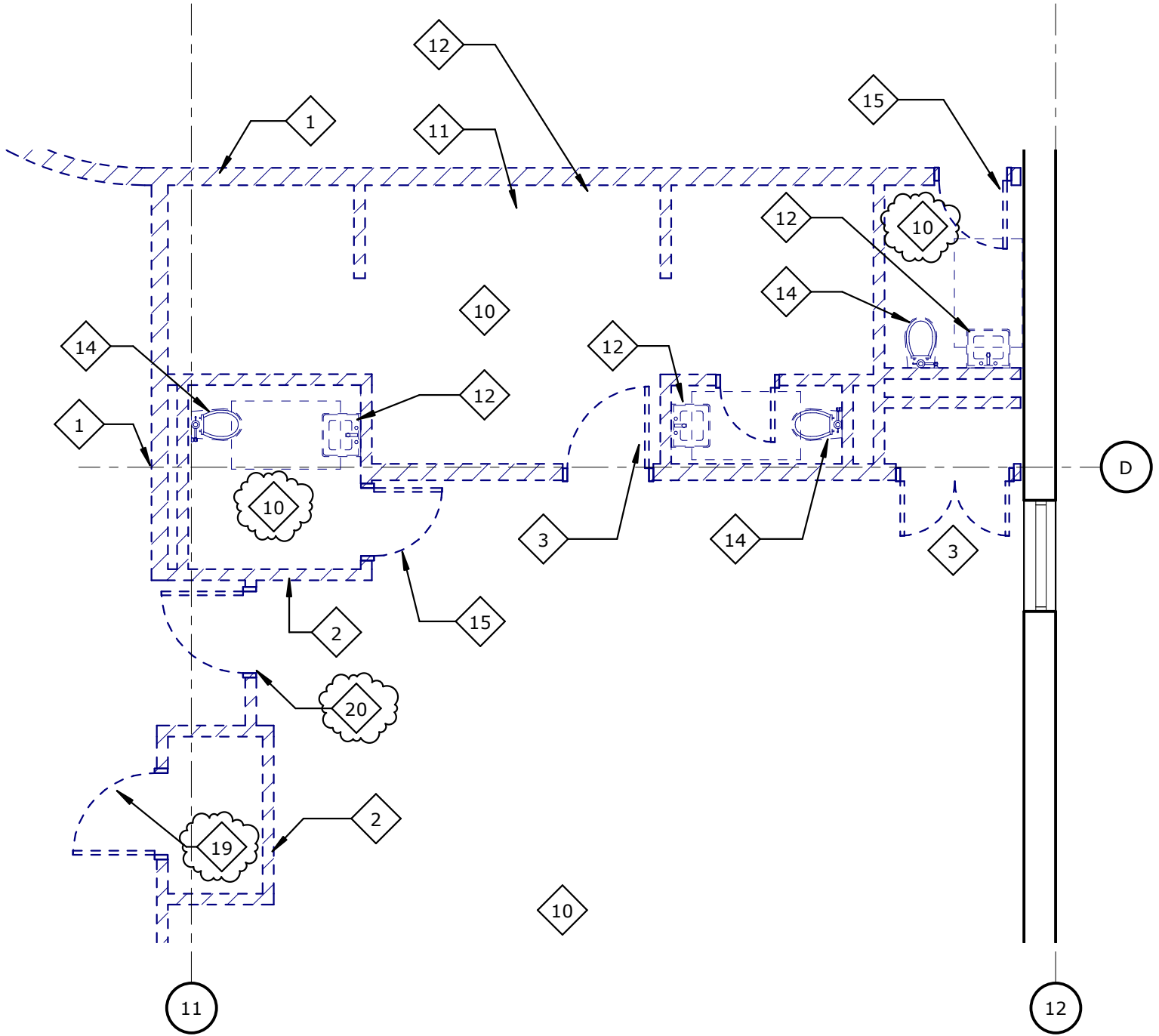
Description: Add prox reader to existing alum doors that are relocated

1 Electric Strike	9400-12/24D	613	HS
1 Power Supply	BPS-24-1		SU

Notes: Remainder of existing hardware to remain
Prox reader releases electric strike allowing entry.
Prox reader furnished and installed by access control supplier

NORRIS HIGH SCHOOL STRENGTH TRAINING & FITNESS AREA RENOVATION ADD 1.1

PROJECT: L13022
DATE: 26 APRIL
2013

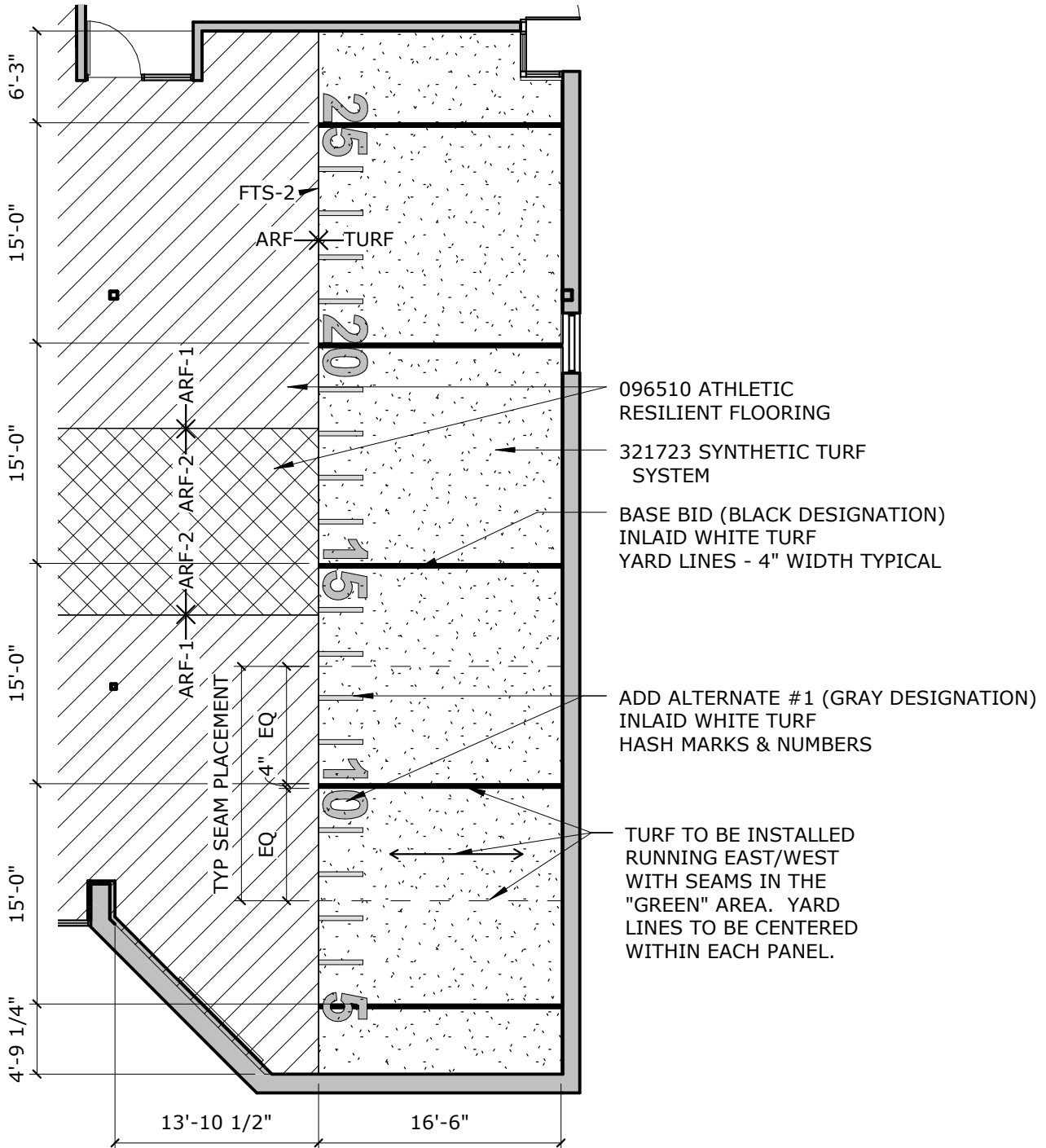


1 ENLARGED DEMO PLAN

3/16" = 1'-0"

NORRIS HIGH SCHOOL STRENGTH TRAINING & FITNESS AREA RENOVATION ADD 1.2

PROJECT: L13022
DATE: 26 APRIL 2013



1 ENLARGED FINISH PLAN

3/32" = 1'-0"

NORRIS HIGH SCHOOL STRENGTH TRAINING & FITNESS AREA RENOVATION
ADD 1.3

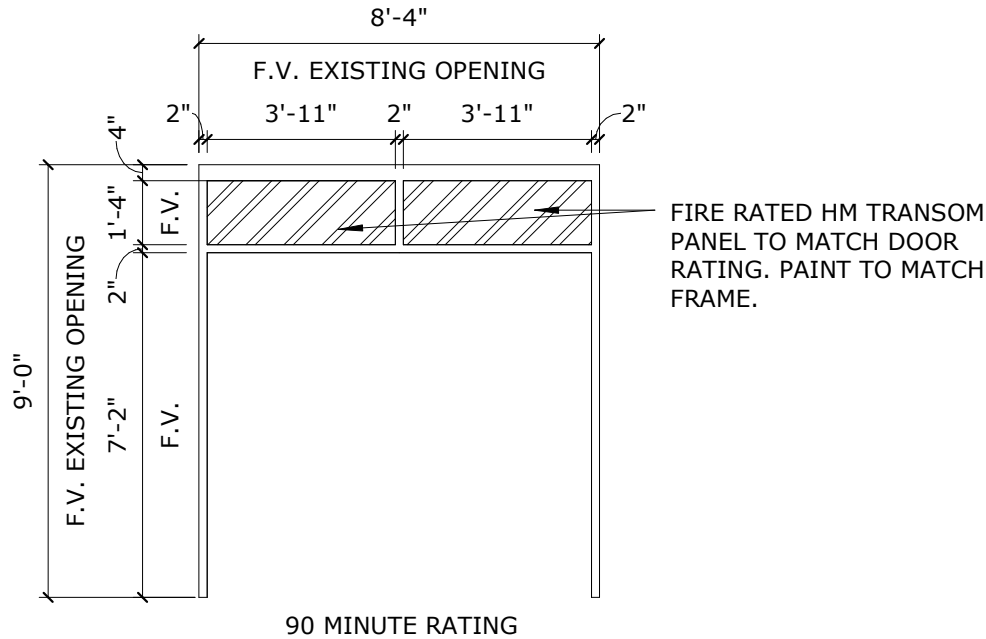


PROJECT: L13022
DATE: 26 APRIL 2013

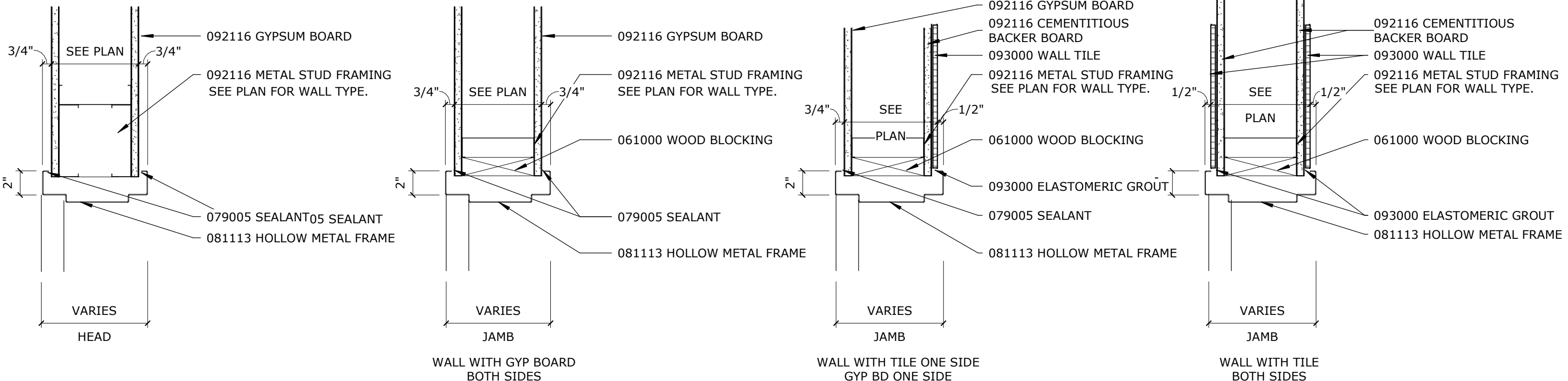
DOOR SCHEDULE - REVISED									
NUMBER	DOOR				FRAME	FIRE RATING	HDWE SET	GLASS TYPE	COMMENTS
	LEAFS	WIDTH	HEIGHT	TYPE	TYPE				
100	2	4'-0"	7'-2"	M-1	HM-2	90 MIN	1		REUSE EXISTING "SOUTH" DOOR LEAF.
101b	1	3'-0"	7'-2"	A-1	AL-6	-	2	TEMPERED	
102	2	3'-0"	7'-0"	M-2	HM-1	-	3	TEMPERED	
104	2	2'-6"	7'-0"	M-1	HM-1	-	4		
106	1	3'-6"	7'-2"	A-1	AL-7	-	2	TEMPERED	
R100	2	3'-8"	7'-2"	EXIST	EXIST	-	5		EXIST DOOR TO BE RELOCATED VERIFY DIMENSIONS
R101a	2	3'-8"	7'-2"	EXIST	EXIST	-	6		EXIST DOOR TO BE RELOCATED VERIFY DIMENSIONS
R102	2	3'-8"	7'-2"	EXIST	EXIST	-	9		EXIST DOOR TO BE RELOCATED VERIFY DIMENSIONS
R103	1	3'-0"	7'-0"	EXIST	EXIST	-	7		EXIST DOOR TO BE RELOCATED VERIFY DIMENSIONS
R107	1	3'-0"	7'-0"	EXIST	EXIST	-	8		EXIST DOOR TO BE RELOCATED VERIFY DIMENSIONS

GENERAL DOOR SCHEDULE NOTES

- 1) FIELD VERIFY CONDITIONS FOR ALL EXISTING/REUSED DOORS. ADJUST ADJACENT FRAMING AFTER CONSULTING WITH DESIGN TEAM.
- 2) ALL METAL FRAMES AND DOORS TO RECEIVE PAINT AS FINAL FINISH. COLOR TBD.
- 3) FINISH FOR ALL ALUMINUM FRAMES TO MATCH EXISTING REUSED ALUMINUM DOORS. STILES, MULLION WIDTHS TO MATCH.
- 4) FIELD VERIFY EXISTING ALUMINUM FRAME CONDITIONS TO "MATCH" MULLION PLACEMENTS FROM DEMO'D FRAMES.



1 HM-2
1/4" = 1'-0"



2 HM frame details
1 1/2" = 1'-0"