

BID ADDENDUM NO. 2

March 20, 2020

Elmira City School District
Fuel Island Replacement
HUNT No.: 2012-223

BUS GARAGE SED #07-06-00-01-5-017-015
STORAGE BUILDING SED #07-06-00-01-2-075-002

The following Addendum items shall be considered a part of the contract documents prepared by HUNT ENGINEERS, ARCHITECTS, LAND SURVEYORS & LANDSCAPE ARCHITECT D.P.C., Bid Document date of July 12, 2019; issued for bid February 28, 2020.

Clarifications issued by this Addendum:

During the Pre-bid Conference a question was raised regarding the proximity of railroad to the construction site. HUNT clarified that the railroad right of way is on the east side of the Elmira City School District fence and property line. As such we do not anticipate any special requirements during construction.

Project Manual Sections issued by this Addendum:

00 11 13 ADVERTISEMENT FOR BIDS
08 16 13 FIBERGLASS DOORS
14 45 00 VEHICLE LIFTS

Drawings issued by this Addendum:

E1.1 ELECTRICAL PLANS
AD2-L1 SECURITY MANGATE
AD2-L2 SPOT ELEVATION
AD2-A1 BG FIRST FLOOR DEMOLITION PLAN
AD2-A2 BG FIRST FLOOR PLAN
AD2-A3 DOOR SCHEDULE

Revisions to Drawings issued by this Addendum:

ITEM AD2-1 Refer to Section 00 11 13 – ADVERTISEMENT FOR BIDS
 DELETE Section 00 11 13 - ADVERTISEMENT FOR BIDS in its entirety and ADD Section 00 11 13 -
 ADVERTISEMENT FOR BIDS as issued by this addendum.

ITEM AD2-2 Refer to Section 01 10 00 – SUMMARY
 DELETE Paragraph 1.11, A, 2.
 DELETE Paragraph 1.11, A, 7.

ITEM AD2-3 Refer to Section 08 16 13 – FIBERGLASS DOORS

DELETE Section 08 16 13 in its entirety and **ADD** Section 08 16 13 – FIBERGLASS DOORS as issued by this addendum.

ITEM AD2-4 Refer to Section 14 45 00 – VEHICLE LIFTS

DELETE Section 14 45 00 in its entirety and **ADD** Section 14 45 00 – VEHICLE LIFTS as issued by this addendum.

Revisions to Drawings issued by this Addendum:

ITEM AD2-5 Refer to Drawing L2.1 – SITE IMPROVEMENT PLAN

ADD Drawing AD2-L1 – SECURITY MANGATE as issued by this addendum.

ITEM AD2-6 Refer to Drawing L2.1 – SITE IMPROVEMENT PLAN

ADD General Note to sheet to read, “All equipment, personnel, and work to be kept to the west of the eastern property fence along the Norfolk Southern Railway Company’s railroad.”

ITEM AD2-7 Refer to Drawing L4.1 – SITE GRADING PLAN

ADD Drawing AD2-L2 – SPOT ELEVATION as issued by this addendum.

ITEM AD2-8 Refer to Drawing A1.1 – FLOOR PLANS AND DETAILS

AMEND Detail 1 as shown on attached drawing AD2-A1 as issued by this addendum.

ITEM AD2-9 Refer to Drawing A1.1 – FLOOR PLANS AND DETAILS

AMEND Detail 2 as shown on attached drawing AD2-A2 as issued by this addendum.

ITEM AD2-10 A1.1 – FLOOR PLANS AND DETAILS

AMEND DOOR AND FRAME SCHEDULE – FIRST FLOOR as shown on attached drawing AD2-A3 as issued by this addendum.

ITEM AD2-11 Refer to Drawing E1.1 – ELECTRICAL PLANS

AMEND Lift Note in Detail 2 to read, “Provide 40A/3P breaker in panel DP-BG. Circuit with 3#10,1#10G,3/4”C.”

ITEM AD2-12 Refer to Drawing T1.1 – TECHNOLOGY SITE PLAN

AMEND Drawing Note 3 to read, “Provide installation of owner furnished exterior mounted cameras, refer to Detail 3, T2.1. Provide tested CAT6 cable drop and associated surge suppression, from camera location to new interior mounted network enclosure. CAT6 cable must be outdoor, gas and oil resistant. Refer to site plan L5.2 for conduit pathways.”

ITEM AD2-13 Refer to Drawing T1.1 – TECHNOLOGY SITE PLAN

AMEND Drawing Note 4 to read, “Provide installation of owner furnished exterior building mounted cameras, refer to Detail 3, T2.1. Provide tested CAT6 cable drop and associated conduit and surge suppression, from camera location to new interior mounted network enclosure.”

ITEM AD2-14 Refer to Drawing T1.1 – TECHNOLOGY SITE PLAN

AMEND Drawing Note 5 to read, “Provide installation and cabling for owner furnished exterior mount wireless access point per detail indicated. Test CAT6 cable drop and associated surge suppression.”

ITEM AD2-15 Refer to Drawing T2.1 – TECHNOLOGY DETAILS

AMEND Detail 1 to read, “1500 VA UPS” to “1500VA UPS PROVIDED BY E.C.”

End of Addendum (2)

SECTION 00 11 13
ADVERTISEMENT FOR BIDS

NOTICE IS HEREBY GIVEN, that sealed proposals, in DUPLICATE, are sought and request by the **Elmira City School District (hereinafter called "Owner")**, for the construction of the following Project:

Fuel Island Replacement

Bids are requested for multiple prime contracts for General Trades Work and Electrical Work, in accordance with Drawings, Project Manual, and other Bidding and Contract Documents prepared by Hunt Engineers, Architects, Land Surveyors & Landscape Architect, DPC 100 Hunt Center, Airport Corporate Park, Horseheads, NY 14845.

Sealed bids will be received by the Owner until 2:00 P.M. local time on March 31, 2020 at Elmira City School District office, 430 W. Washington Ave Elmira, NY 14901, at which time and place all bids will be opened and publicly read aloud.

PUBLIC BID OPENING

In compliance with current Federal and State guidelines, this public bid opening shall be carried out electronically, in a format as established by the Owner. As such, attendance at the bid opening shall be limited to those designated by the Owner, without exception. No bidders will be permitted in person. The Owner has set forth the following requirements:

No interested party shall be in attendance without the express invitation of the Owner.

Those wishing to watch the bid opening meeting online, shall visit www.elmiracityschoools.com and follow directions on the front page to the livestream.

Bid results shall be uploaded to, and available on the Dataflow website within 24 hours of bid opening at www.godataflow.com.

The Bidding Documents and Forms of Proposals may be examined at the following:

Associated Building Contractors, 15 Belden Street, Binghamton NY 13903

Builder's Exchange of Rochester, 180 Linden Oaks, Suite 100, Rochester, NY 14625-2837

Construction Exchange of Buffalo & Western New York. 2660 Williams Street, Cheektowaga, NY 14227

Syracuse Builders Exchange, 6563 Ridings Rd., Syracuse, NY 13206

Southern Tier Builders Association, 65 E. Main. St., Falconer, NY 14733

McGraw-Hill Construction, 3315 Central Ave, Hot Springs, AR, 71913
<http://dodgeprojects.construction.com>

Construction Market Data (CMD), a ConstructConnect Company. Subscribers only; website:
www.cmdgroup.com

Hunt Engineers, Architects, Land Surveyors & Landscape Architect, DPC Airport Corporate Park, 100 Hunt Center, Horseheads, NY 14845-1019

Welliver, 250 North Genessee Street Montour Falls, NY 14865.

Documents are also available for view at www.godataflow.com; click on "Find Projects", click on "HUNT Engineers, Architects, Land Surveyors & Landscape Architect, DPC" to view Bid Documents electronically and an up to date Plan Holders list.

A Pre-Bid conference for all Bidders will be held on March 10, 2020 at 3:00 P.M. at the Bus Garage, 1723 Cedar Street Elmira, NY 14904 for the purpose of considering questions posed by Bidders.

Copies of said documents may be obtained from the Horseheads office of Dataflow, Inc., Airport Corporate Park, 100 Hunt Center, Horseheads, NY 14845, phone (607) 562-2196, fax (607) 562-3214, email "Corning@GoDataFlow.com" by bidders upon payment of a deposit of \$50.00 for each complete set and a separate, non-refundable \$25.00 shipping and handling payment for each set. Electronic (pdf) files are also available for a **non-refundable payment of \$25.00**. All checks for sets of Bidding and Contract Documents shall be made payable to the Elmira_City School District. **All checks for shipping and handling, and PDF sets, shall be made payable to Hunt Engineers, Architects, Land Surveyors & Landscape Architect, DPC.**

All Prime Contract Bidders who have paid the aforesaid deposit for an entire set of Bidding and Contract Documents and have submitted a bid with required bid security; **and return such sets to Dataflow Inc. Horseheads office in GOOD CONDITION within thirty (30) calendar days after the award of contract or rejection of bids, shall receive a refund of the full amount of such deposit. Any NON-BIDDER may be refunded his deposit only upon returning plans and specifications PRIOR to the bid opening. Postage and HANDLING are NOT REFUNDABLE.**

All questions prior to bid opening must be received by the close of business on March 20, 2020. Questions shall be directed to Craig Hopkins at Welliver at email chopkins@buildwelliver.com. All bidders request for information shall use the form located in specification 00 12 00 - Pre-Bid Request for Information. A digital copy of this form is available upon request.

As bid security, each Bid shall be accompanied by a certified check or Bid Bond made payable to Owner, in accordance with the amounts and terms described in the INSTRUCTIONS TO BIDDERS.

The Owner requires that all bids shall comply with the bidding requirements specified in the INSTRUCTIONS TO BIDDERS. The Owner may, at his discretion, may waive informalities in bids, but is not obligated to do so, nor does this represent that he will do so. The Owner also reserves the right to reject any and all bids. Under no circumstances will the Owner waive any informality which, by such waiver, would give one Bidder a substantial advantage or benefit not enjoyed by all other Bidders. No Bidder may withdraw his Bid before forty-five (45) days after the actual date of the opening thereof, unless a mistake due to error is claimed by the Bidder in accordance with INSTRUCTIONS TO BIDDERS.

Attention of Bidders is particularly called to requirements as to conditions of employment to be observed and minimum wage rates to be paid under the Contract.

Hillary Austin , Superintendent

Elmira City School District

SECTION 08 16 13
FIBERGLASS DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Fiberglass doors.
- B. Rated Fiberglass Reinforced Polyester (FRP) doors
- C. Fiberglass door frames.

1.2 RELATED REQUIREMENTS

- A. Section 08 12 13 - Hollow Metal Frames: Metal frames.
- B. Section 07 92 00 - Joint Sealants.
- C. Section 08 71 00 - Door Hardware.

1.3 REFERENCE STANDARDS

- A. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors; 2011.
- B. ASTM D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position; 2018.
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2018b.
- D. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- E. ITS (DIR) - Directory of Listed Products; current edition.
- F. IBC 2603.4.1.7 - Standard for Plastic Foam Insulation in Non-Rated Swinging Doors.
- G. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2019.
- H. UL (DIR) - Online Certifications Directory; Current Edition.
- I. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Obtain hardware templates from hardware manufacturer prior to starting fabrication.

1.5 PERFORMANCE REQUIREMENTS

- A. Provide door assemblies that have been designed and fabricated to comply with requirements for system performance characteristics listed below, as demonstrated by testing manufacturer's corresponding standard systems according to test methods designated.
- B. Submitted door shall have been manufactured for a minimum of 10 years. List of minimum (100) jobs shall be submitted for architect's review, upon his request.

- C. Air Infiltration: For a single door 3'-0" x 7'-0", test specimen tested in accordance with ASTM E 283 @ 6.24 psf: Door shall not exceed 0.90 cfm per linear foot of perimeter crack.
- D. Water Resistance: For a single door 3'-0" x 7'-0", test specimen tested in accordance with ASTM E 331 @ 7.50 psf. Door shall have no water leakage .
- E. Thermal Transmission (exterior doors): "U" value of not more than 0.29 (BTU/Hr. x sf x degrees F°) per AAMA 1503.01.
- F. Swinging Door Cycle Test, Door and Frames: ANSI A250, minimum 25,000,000 cycles.
- G. Plastic Foam Insulation, Non-Rated Doors: IBC 2603.4.1.7, passed
- H. Surface Burning Characteristics, exterior face of exterior FRP Doors and exterior panels, ASTM E 84.
 - 1. Flame Spread: Maximum of 200, Class C.
 - 2. Smoke Developed: Maximum of 450, Class C.
- I. Flame Spread/Smoke Developed: Class A FRP faces sheets only for interior face of FRP Exterior Panels and both faces of FRP Interior panels, ASTM E 84:
 - 1. Flame Spread: Not greater than 25.
 - 2. Smoke Developed: Not greater than 450.
- J. Additional Criteria: Provide FRP doors and panels with the following performance
 - 1. Impact Strength: ASTM D 256 - Nominal Value, 7.0 foot-pounds per inch of notch.
 - 2. Water Absorption: ASTM D 570 - Nominal Value, 0.20% after 24 hours.
 - 3. Indentation Hardness: ASTM D 2583 - Nominal Value, 40.
- K. Compressive Strength, Foam Core, Nominal Value, ASTM D 1621: 79.9 psi
- L. Compressive Modulus, Foam Core, Nominal Value, ASTM D 1621: 370 psi
- M. Mold Resistance: FRP face sheet does not support mold or mildew, ASTM D3273 & ASTM D3274
- N. Tensile Adhesion, Foam Core, Nominal Value, ASTM D 1623: 45.3 psi
- O. Tensile Strength, FRP Doors and Panels, Nominal Value, ASTM D 638: 18,000 psi.
- P. Flexural Strength, FRP Doors and Panels, Nominal Value, ASTM D 790: 27,000 psi.
- Q. Single Flush Door shall have passed following tests: (protection systems such as shutters, canopies or overhangs will not be allowed to pass tests.) Documentation of having passed tests, as performed and documented by an independent testing laboratory, will be required.
 - 1. Uniform Static Load Test - ASTM E330, Minimum +75 psf and -75 psf design pressures
 - 2. Forced Entry Resistance Test - SFBC 3603.2 (b) (5), Minimum 300 lbs.
 - 3. Large Missile Impact Test - Test Conditions PA 201.
 - 4. Cyclic Load Test - SFBC P.A. 203, Plus or minus 53 psf.

1.6 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard details, installation instructions, hardware and anchor recommendations.
 - 1. Provide details of core, stile and rail construction, trim for lites and all other components.
 - 2. Include details of finish hardware mounting.
- C. Shop Drawings: Indicate layout and profiles; include assembly methods.
 - 1. Indicate product components, including hardware reinforcement locations and preparations, accessories, finish colors, patterns, and textures.

2. Indicate wall conditions, door and frame elevations, sections, materials, gages, finishes, location of door hardware by dimension, and details of openings; use same reference numbers indicated on drawings to identify details and openings.
- D. FRP Face Sheet Samples: Submit two complete sets of color chips, illustrating manufacturer's available finishes, colors, and textures.
- E. Test Reports: Submit certified test reports from qualified independent testing agency indicating doors comply with specified performance requirements.
- F. Maintenance Data: Include instructions for repair of minor scratches and damage.
- G. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer; include detailed terms of warranty.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products of the type specified in this section, with not less than 25 years of documented experience. Provide comprehensive list of completed projects of similar building type and size as this project with submittal package.
- B. The manufacturer or his representative shall be available for consultation to all parties engaged in the project including instruction to installation personnel.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Store materials in original packaging, under cover, protected from exposure to harmful weather conditions and from direct contact with water.
 1. Store at temperature and humidity conditions recommended by manufacturer.
 2. Do not use non-vented plastic or canvas shelters.
 3. Immediately remove wet wrappers.
- C. Store in position recommended by manufacturer, elevated minimum 4 inch above grade, with minimum 1/4 inch space between doors.

1.9 FIELD CONDITIONS

- A. Do not install doors until structure is enclosed.
- B. Maintain temperature and humidity at manufacturer's recommended levels during and after installation of doors.

1.10 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Provide written warranty signed by manufacturer, installer and contractor, agreeing to replace, at no cost to the Owner, any doors, frames or factory hardware installation against failure in materials or workmanship within the warranty period. Failure of materials or workmanship includes: excessive deflection, faulty operation of entrances, deterioration of finish or construction in excess of normal weathering and defects in hardware installation. The minimum time period of warranty is ten (10) years from Date of Substantial Completion .

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Non-Rated Fiberglass Reinforced Polyester Doors:
 - 1. Special Lite, Inc. SL-20: www.special-lite.com.
 - 2. Oldcastle Glass Engineered Products (Vistawall): www.oldcastlebe.com.
 - 3. Substitutions: See Section 01 60 00 - Product Requirements.
- B. Fire Rated Fiberglass Reinforced Polyester Doors:
 - 1. Special Lite, Inc SL-20 FR: www.special-lite.com.
 - 2. Oldcastle Glass Engineered Products (Vistawall): www.oldcastlebe.com.
 - 3. Substitutions: See Section 01 60 00 - Product Requirements.

2.2 FIBERGLASS DOORS

- A. Fiberglass Doors: Factory-fabricated, prepared and machined for hardware.
 - 1. Mechanical Durability: Tested to ANSI A250.4 Level A (25,000,000 cycles), minimum; tested with hardware and fasteners intended for use on project.
 - 2. Screw-Holding Capacity: Tested to 890 lbs, minimum.
 - 3. Surface Burning Characteristics: Flame spread index (FSI) of 0 to 25, Class A, and smoke developed index (SDI) of 450 or less, when tested in accordance with ASTM E84.
 - 4. Flammability: Self-extinguishing when tested in accordance with ASTM D635.
 - 5. Clearance Between Door and Frame: 1/8 inch, maximum.
 - 6. Clearance Between Meeting Stiles of Pairs of Doors: 1/8 inch, maximum.
 - 7. Clearance Between Bottom of Door and Finished Floor: 3/4 inch, maximum; not less than 1/4 inch clearance to threshold.
 - 8. Provide frame anchors that allow for variation in rough opening size; allow doors and frames to be field cut up to 2 inch maximum to adjust for field conditions.
- B. Fire-Rated Doors: Comply with fire-ratings as indicated on drawings.
 - 1. Tested in accordance with ICC (IBC) for positive pressure or UL 10C.
 - 2. ITS (DIR) or UL (DIR) listed and labeled.
 - 3. Visible seals when doors are open or closed is not permitted.
 - 4. Provide mineral fiber or intumescent core as required for fire-rating as indicated.

2.3 COMPONENTS

- A. Non-Rated Doors
 - 1. Thickness: 1-3/4 inch, nominal.
 - 2. Core Assembly: Minimum 5 lbs/cuft density, poured-in-place polyurethane. Minimum "R" value of 9.1.
 - a. Foam Plastic Insulated Doors: IBC 2603.4.
 - 1) Foam plastic shall be separated from the interior of a building by an approved thermal barrier.
 - 2) Approved thermal barrier must meet the acceptance criteria of the Temperature Transmission Fire Test and Integrity Fire Test as stated in NFPA 275.
 - 3) IBC 2603.4.1.7 foam plastic insulation, having a flame spread index less than 75 and a smoke developed index of not more than 450 shall be permitted as a door core when the face is metal minimum 0.032" aluminum or 0.016" steel.
 - 4) Standard door assembly can be tested to show it meets these requirements without the use of thermal barrier. If no independent testing conducted all doors with foam plastic core must have a thermal barrier.

3. 6063-T5 tubular shaped aluminum alloy rails and stiles, min. 2-5/16" depth. Construct with mitered corners and provide joinery with 3/8" dia. full-width steel tie rods through extruded splines top and bottom as standard.
 4. Subframe and Reinforcements: Manufacturer's standard materials.
 5. Provide 3/16" angle blocks with hex type aircraft nuts for joinery without welds, glues or other methods for securing internal door extrusions.
 6. Furnish mitered integral reglets (part of internal frame) on all four sides to accept and secure face sheet and permit a flush appearance. Screw applied removable rail caps or other face sheet capture methods are not acceptable. No expose fasteners unless required for hardware installation.
 7. Provide manufacturers standard concealed adjustable door bottom (SL-301) with dual brushes for up to 5/8-inch adjustment.
 8. Meeting Stiles to include manufacturers standard full height adjustable astragal with two brushes between pairs of doors.
 9. Face Sheet: Exterior Grade FRP skin, .120" thickness, with sandstone texture; finish color throughout.
 - a. Supply Class A face sheet for interior faces only in accordance with ASTM 84E as indicated.
 10. Manufacture doors with cutouts for vision lites as scheduled. Factory finish and install all glass prior to shipment.
- B. Fire Rated Doors
1. 45, 60 or 90 minute rated as indicated on door schedule.
 2. Thickness to be 1-3/4".
 3. Stile & Rails to be stainless steel channel with stainless steel screws every 10 inches.
 4. Corners: Welded
 5. Face Sheets:
 - a. Exterior Face Sheets: Class C rated, 0.120-inch thickness.
 - b. Interior Face Sheets: Class A rated, 0.90-inch thickness.
 - c. Color: Selected from Manufacturer's full range of colors.
 6. Core Material:
 - a. Mineral Core
 - b. Density: Minimum 30 Pounds per cubic foot
 - c. Perimeter Firestop: 1-1/2 inches wide, 82 to 84 pounds per cubic foot.
 - d. Screw Holding Requirement: 800 pounds screw holding.
 7. Cutouts: Manufacture doors with required cutouts for vision lites. Factory install glass.
 8. Fasteners for Perimeter channel to be 18-8 stainless steel or other non-corrosive metal. Fasteners to be compatible with items to be fastened.
 9. Hardware shall be fire rated.
 10. Pre-machine doors in accordance with templates from specified hardware supplier.
 11. Factory install hardware except door closer, smoke and intumescent gaskets.
 12. Door Manufacturer to supply smoke/draft and intumescent gasketing to meet positive pressure requirements.
 13. Glazing: Manufactures standard Fire Rated Vision Lite.
 - a. Factory Glazed: As indicated in Section 08 80 00.
 - b. Size: As indicated on drawings within code requirements.
 14. Performance Requirements: 90 Minute Full-Scale Vertical Fire Test of Door, Positive Pressure.
 - a. UBC Standard 7-2
 - b. NFPA 252- Fire Tests of Door Assemblies.
 - c. UL 10C- Positive Pressure Fire Tests for Door Assemblies
 - d. ASTM E 84- Surface Burning Characteristics of Building Materials.
 - e. ASTM D 2583- Indentation Hardness of Rigid Plastics by Means of Barcol Impressor.
 - f. ASTM D 1308- Effect of Household Chemicals on Clear and Pigmented Finishes.
 - g. ASTM D 638- Tensile Properties Plastics

- h. ASTM D 570- Water Absorption of Plastics.
 - i. ASTM D 256- Pendulum Impact Resistance of Notched Specimens of Plastic.
 - j. ASTM D 790- Flexural Strength of Reinforced Plastics
- C. Frames: Profiles and dimensions as indicated on drawings.
- 1. Type: Factory assembled with chemically welded joints.
 - 2. Profiles: As indicated on drawings.
 - 3. Door Stop: 5/8 inch wide, by 2 1/4 inch deep.
 - 4. Construction for Non-Fire-Rated Doors:
 - a. Fiberglass pultrusions with gel-coating matching doors.
 - b. Basis of Design: AF-150 as manufactured by Special-Lite, Inc.
 - c. Frame Member to Member Connections:
 - 1) Corners mitered with 4" x 4" x 3/8" pultruded FRP angle reinforcement with interlocking pultruded FRP brackets.
 - 2) All member to member connections chemically welded at factory unless in a knock down configuration.
 - 3) Provide hairline butt joint appearance
 - d. Reinforcements:
 - 1) thick pultruded FRP chemically welded to frame at all hinge, strike, and closer locations.
 - e. Anchors:
 - 1) Masonry:
 - (a) Existing concrete or block punch and dimple.
 - (b) Sill anchor.
 - (c) Concealed existing masonry anchor.
 - (d) Fiberglass masonry t anchor

2.4 FINISHES

- A. Gel Coating: Ultraviolet (UV) stabilized polyester finish.
 - 1. Thickness: Minimum 15 mils wet thickness, plus/minus 3 mils.
 - 2. Color: As selected by Architect from manufacturer's full line of colors.
- B. Abuse resistant engineered surface with protective coating and through-molded color.
 - 1. Panel Texture: Sandstone.
 - 2. Color: As selected by Architect from manufacturer's full line of colors.

2.5 ACCESSORIES

- A. Fasteners: Aluminum, non magnetic stainless steel or other non corrosive metal fasteners, guaranteed by the manufacturer to be compatible with the doors, frames, stops, panels, hardware, anchors and other items being fastened. For exposed fasteners (if any) provide Phillips head screws with finish matching the item to be fastened.
- B. Door Hardware: As specified in Section 08 71 00.

2.6 FABRICATION

- A. Required sizes for doors and frame units and profile requirements are shown on the drawings.
- B. Field measure before fabrication and show recorded measurements on final shop drawings.
- C. Complete the cutting, fitting, forming, drilling and grinding of all metal work prior to assembly. Remove burrs from cut edges and ease edges and corners to a radius of approximately 1/64".
- D. No welding of non-rated doors or aluminum frames is acceptable.

- E. Maintain continuity of line and accurate relation of planes and angles. Secure attachments and support at mechanical joints with hairline fit at contacting members.
- F. All hardware with the exception of door closer, threshold and weatherstripping to be shipped to door manufacturer. Door manufacturer shall install hardware on doors and warranty attachment for ten years. Complete fabrication, assembly, finishing and other work before shipment to project site. Disassemble components only as necessary for shipment and installation.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify actual dimensions of openings by field measurements before door fabrication; show recorded measurements on shop drawings.
- B. Do not begin installation until substrates have been properly prepared.

3.2 PREPARATION

- A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. Clean and prepare substrate in accordance with manufacturer's directions.
- C. Protect adjacent work and finish surfaces from damage during installation.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions; do not penetrate frames with anchors.
- B. Install fire-rated assemblies in accordance with NFPA 80.
- C. Install door hardware as specified in Section 08 71 00.
- D. Set units plumb, level, and true-to-line, without warping or racking doors, and with specified clearances; anchor in place.
- E. In masonry walls, install frames prior to laying masonry; anchor frames into masonry mortar joints; fill jambs with grout as walls are laid up.
- F. Separate aluminum and other metal surfaces from sources of corrosion or electrolytic action at points of contact with other materials.
- G. Repair or replace damaged installed products.
- H. Provide Owner with all adjustment tools and instruction sheets. Arrange an in service session to Owner at Owner's convenience. Provide a one-year written warranty on all labor related to this section. Any workmanship which is defective or deficient shall be corrected to the Owner's satisfaction and at no additional cost to the Owner.

3.4 ADJUSTING

- A. Lubricate, test, and adjust doors to operate easily, free from warp, twist or distortion, and to fit watertight for entire perimeter.
- B. Adjust hardware for smooth and quiet operation.
- C. Adjust doors to fit snugly and close without sticking or binding.

3.5 CLEANING

- A. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance.
- B. Do not use harsh cleaning materials or methods that would damage finish.

3.6 PROTECTION

- A. Protect installed products from damage until Date of Substantial Completion.

END OF SECTION

SECTION 14 45 00
VEHICLE LIFTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Light Duty Vehicle Lifts including safety equipment, controls and accessories of the following types:
 - 1. Symmetric two post surface mounted frame contact lift.

1.2 RELATED SECTIONS

- A. Section 03 30 00 - Cast-in-Place Concrete
- B. Division 26 - Electrical

1.3 REFERENCES

- A. ALI: Automotive Lift Institute.
- B. ANSI/ALI ALCTV: Safety Requirements for the Construction, Testing, and Validation of Automotive Lifts.
- C. International Standards Organization (ISO): ISO 9001 Quality management systems - Requirements.
- D. Underwriters Laboratories Inc. (UL): UL201 - These requirements cover garage equipment, rated not more than 600 volts, for use in accordance with the National Electrical Code, NFPA 70.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation manual.
 - 4. Operations manual.
 - 5. Maintenance manual.
 - 6. Safety manual.
- C. Shop Drawings: Template drawings and load reactions for lift application.

1.5 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain lift units and power units from a single manufacturer.
- B. Manufacturer Qualifications: Company specializing in the fabrication of the products of this section with not less than ten years documented experience.
- C. Installer Qualifications: Factory trained authorized company, company insured for completed operations of installing lift. Company specializing in performing the work of this section with not less than five years.
- D. In addition to the other requirements outlined herein, the lift or lifts, shall comply with all applicable requirements of ANSI standards. "Safety Requirements for the Construction, Care

and Use of Automotive Lifts " as published by the American national Standards Institute. The lift company Quality Management System shall be ISO9001 certified.

- E. Lift and all components shall be new. Used or refurbished lift and components not acceptable.

1.6 PROJECT CONDITIONS

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

1.7 WARRANTY

- A. System Warranty: Submit written warranty, signed by the contractor, the installer, and the manufacturer, guaranteeing to correct failures in lift system which occur within warranty period, without reducing or otherwise limiting any other rights to correction which the owner may have under the contract documents.
1. Warranty period is 5 years from date of substantial completion of the project and shall cover manufacturing defects in materials, function and workmanship.
 2. This warranty is to include parts and labor.
 3. All parts shall be readily available in the United States

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Rotary Lift
2700 Lanier Dr
Madison, IN 47250
Tel: 800-640-5438
www.rotarylif.com
- B. Other Acceptable Manufacturers:
1. Stertil-Koni USA Inc; www.steritl-koni.com
- C. Substitutions: See Section 01 60 00 - Product Requirements.

2.2 LIGHT DUTY 16,000 LB. CAPACITY SYMMETRIC TWO POST SURFACE MOUNTED FRAME CONTACT LIFTS

- A. General: Surface mounted, frame contact, two-post mechanical vehicle lifting devices configured to provide wheels-free under carriage service access by engaging vehicle pick-up points, with symmetrical lifting arms centered on vehicle
1. Basis of Design: SPO16 Shockwave as manufactured by Rotary Lift.
- B. Performance Requirements:
1. Capacity:
 - a. SPO16: 16,000 lbs. (7257 kg); 4000 lbs. (1814 kg) per arm.
 2. Minimum Bay Requirements:
 - a. Floor space 15 feet x 30 feet.
 3. Overhead Clearance Requirements:
 - a. Standard Model: 16' 8".
 4. Overall Width: 166 inches.
 5. Drive Through Width: 126 inches.
 6. Rise:
 - a. Standard Models: 72 inches.

- b. Time for Full Rise: 85 seconds.
 7. Finishes (Excluding Arms) - All Arms Are Yellow:
 - a. Blue, Standard RAL5005.
 8. Single Point Manual Controls - Manual Lock Release Electric Power Unit, UL201 Compliant, Over Hydraulic Cylinder Drive: All models bio-fluid compatible.
 - a. Wall mounted controls.
 9. Lifting Arm and Adapter Configuration:
 10. Motor: 5 HP
 11. Batteries: Two 12VDC Group 24 batteries of type recommended by manufacturer.
 - a. DC Battery Charger: 110-120V 60H2, 3.15A, mounted on unit.
 - b. Five and ten inch Screw Up Adapters.
- C. Lift shall be 3rd party certified by ETL testing laboratory and labeled with the ETL/Automotive Lift Institute (ALI) label that affirms the lifts meet conformance to all applicable provisions of American National Standard ANSI/ALI ALCTV and in compliance with IBC chapter 30 section 3001.2.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Take field measurements prior to fabrication.
- B. Do not begin installation until supporting structures have been properly prepared.
- C. If supporting structure preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

- A. Install in strict accordance with manufacturer instructions and in proper relationship with adjacent construction.
- B. Installing contractor shall provide all additional materials required for complete installation as indicated on manufacturer's installation drawings.
- C. Attach vehicle service tifts securely to concrete floor slab in locations indicated on Drawings and in accordance with Manufacturer's shop drawings.
- D. Install oil supply and return piping from new power unit to new lifts. All underground must have secondary containment.
- E. Install wiring and conduit from disconnect switch to new power unit.
- F. Install manufacturer-provided drive motor and mechanism and adjust for quiet, smooth operation of the lifting and lowering mechanism.

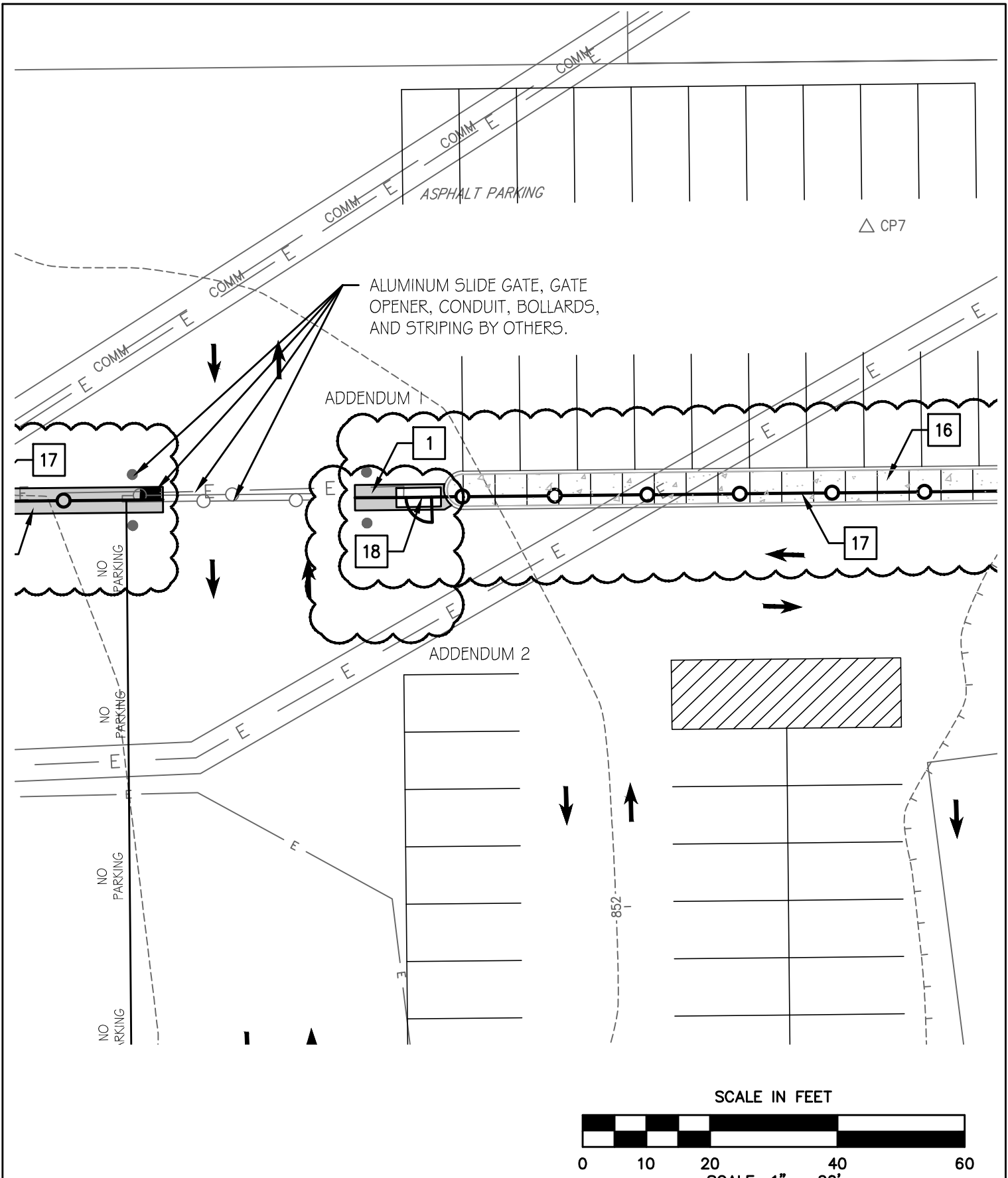
3.3 TESTING AND INSTRUCTION

- A. At completion of installation operate unit under full loading and make adjustments as required for trouble-free operation.
- B. Test for proper operation and retest if necessary until satisfactory results are achieved.
- C. Instruction: Arrange for manufacture's representative to instruct Owner's personnel in operation and maintenance procedures. Provide a minimum of 2 hours training for lift operation

3.4 PROTECTION

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

END OF SECTION

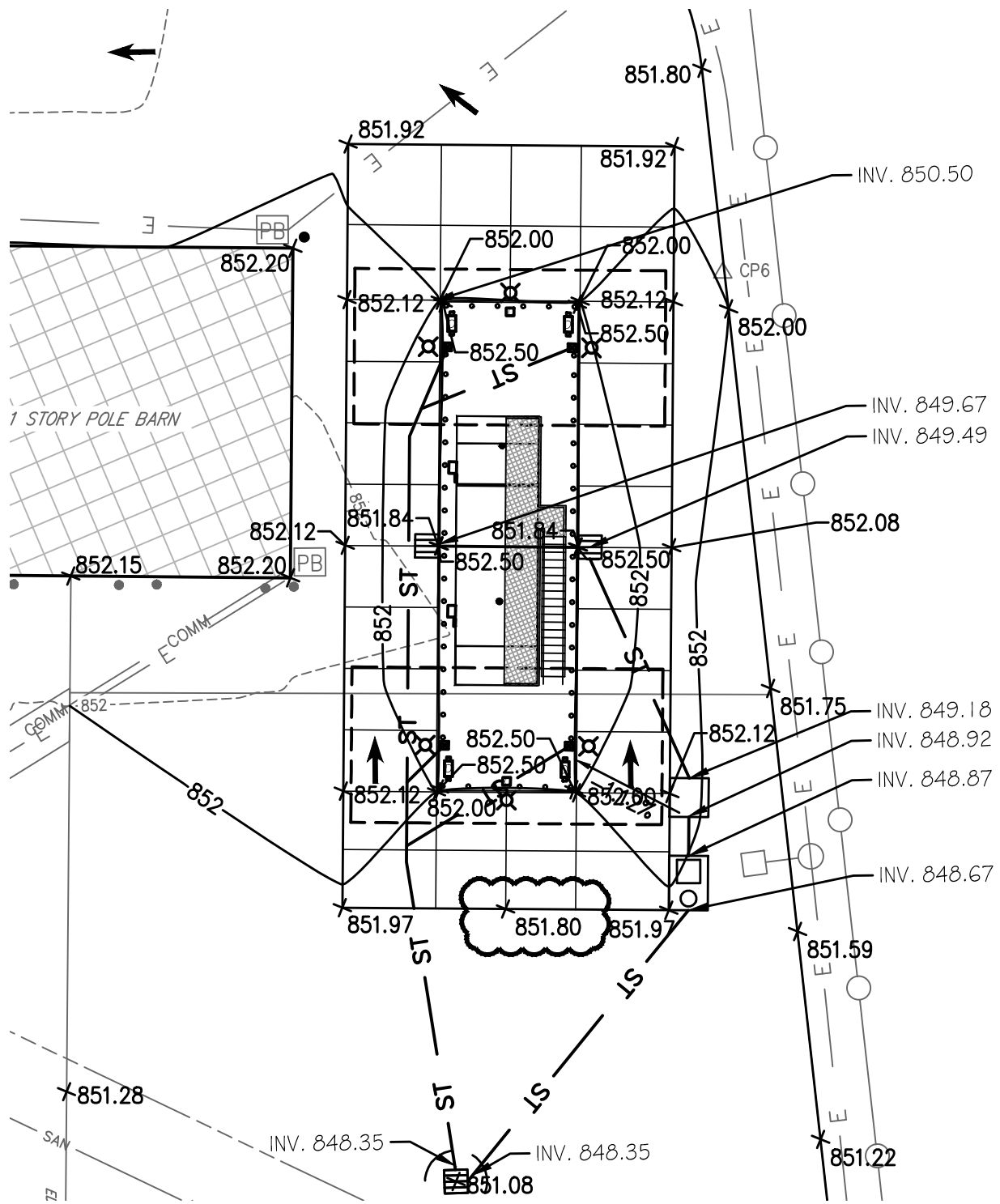


REFER TO DRAWING L2.1 - SITE IMPROVEMENT PLAN

SECURITY MANGATE
FUEL ISLAND REPLACEMENT
ELMIRA CITY SCHOOL DISTRICT
 1723 CEDAR STREET ELMIRA, NY 14904

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
 HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7949
 TOWANDA, PA 570 - 265 - 4868

AD2-L1
 DATE:
 3/11/2020
 PROJECT NO:
 2012.223



SCALE IN FEET



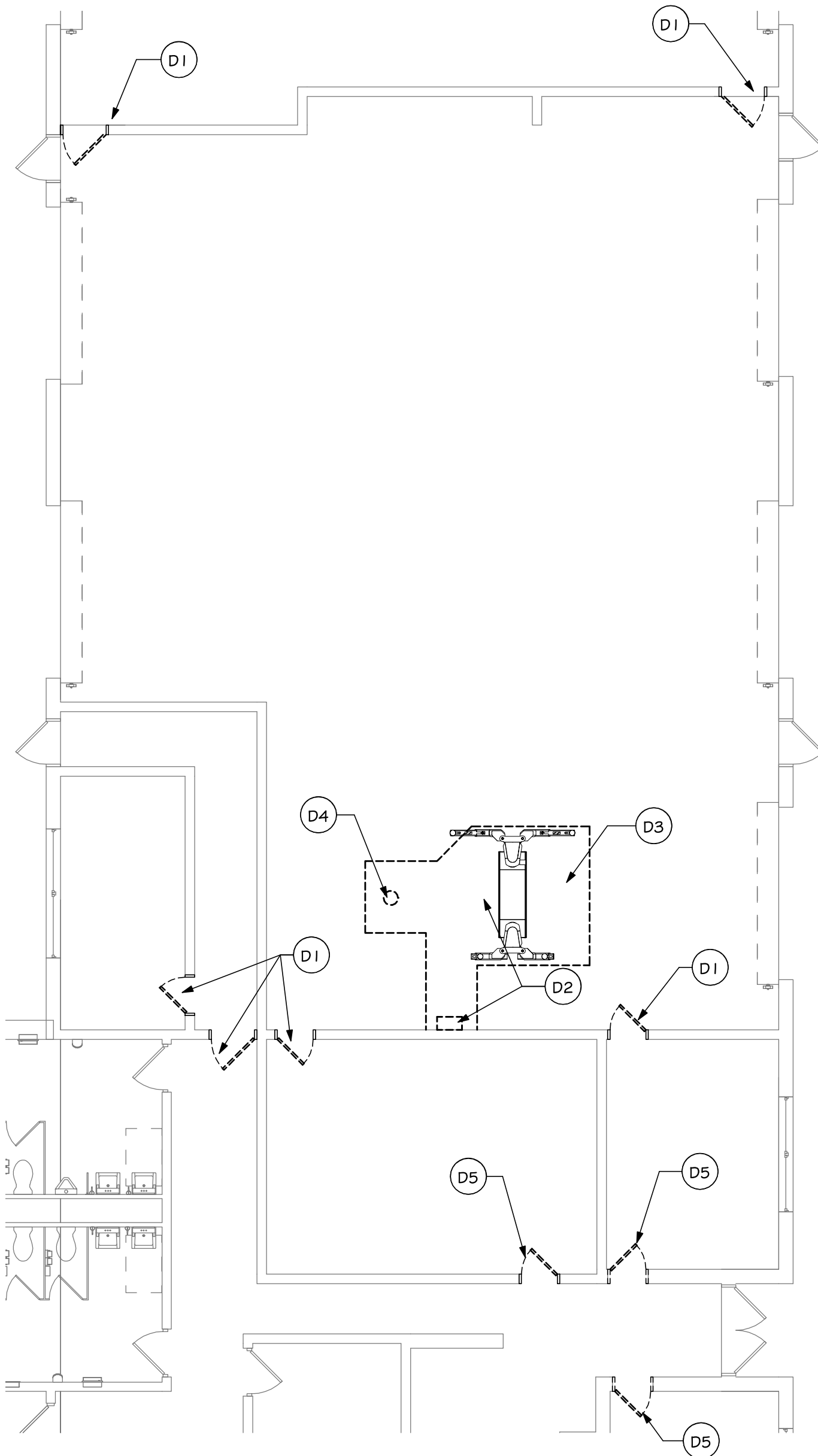
0 10 20 40 60
SCALE: 1" = 20'



REFER TO DRAWING L4.1 - SITE GRADING PLAN

SPOT ELEVATION FUEL ISLAND REPLACEMENT ELMIRA CITY SCHOOL DISTRICT 1723 CEDAR STREET ELMIRA, NY 14904		HUNT ENGINEERS ARCHITECTS SURVEYORS HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7949 TOWANDA, PA 570 - 265 - 4868	AD2-L2 DATE: 3/18/2020 PROJECT NO: 2012.223

DEMOLITION NOTES:



- D1 REMOVE DOOR, FRAME AND HARDWARE IN THEIR ENTIRETY TO EXTENTS SHOWN ON PLAN. REPAIR DAMAGED SURFACES SCHEDULED TO REMAIN IN PLACE TO MATCH EXISTING CONSTRUCTION AND PREPARE SURFACES FOR NEW WORK.
- D2 REMOVE TWO POST VEHICLE LIFT & WALL CONTROLS COMPLETE. REMOVAL OF LIFT TO INCLUDE ALL COMPONENTS WITHIN IN-GROUND ENCLOSURE. IN-GROUND ENCLOSURE TO BE REMOVED DOWN TO 24 INCHES BELOW TOP OF FLOOR SLAB. REMAINING IN-GROUND ENCLOSURE TO BE FILLED WITH PEA GRAVEL. REMOVAL OF WALL CONTROLS TO INCLUDE ALL UNDERGROUND CONDUIT AND CIRCUITRY.
- D3 SAW CUT AND REMOVE EXISTING CONCRETE SLAB TO EXTENTS SHOWN. REMOVE EXISTING SUB BASE MATERIAL AS REQUIRED FOR INSTALLATION OF NEW EQUIPMENT. PROTECT EXISTING TRENCH DRAIN SYSTEM TO REMAIN.
- D4 REMOVE EXISTING FLOOR DRAIN. PROTECT EXISTING DRAIN PIPING TO REMAIN TO ALLOW FOR CONNECTION OF NEW TRENCH DRAIN.
- D5 REMOVE DOOR AND HARDWARE IN THEIR ENTIRETY TO EXTENTS SHOWN ON PLAN. EXISTING FRAME TO REMAIN. REPAIR DAMAGED SURFACES SCHEDULED TO REMAIN IN PLACE TO MATCH EXISTING CONSTRUCTION AND PREPARE SURFACES FOR NEW WORK.

1 BG FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

BUS GARAGE - SED NO. 07-06-00-01-5-017-014; STORAGE BUILDING - SED NO. 07-06-00-01-2-075-002

AD2-A1	BG FIRST FLOOR DEMOLITION PLAN FUEL ISLAND REPLACEMENT ELMIRA CITY SCHOOL DISTRICT 1723 CEDAR STREET, ELMIRA, NY 14904
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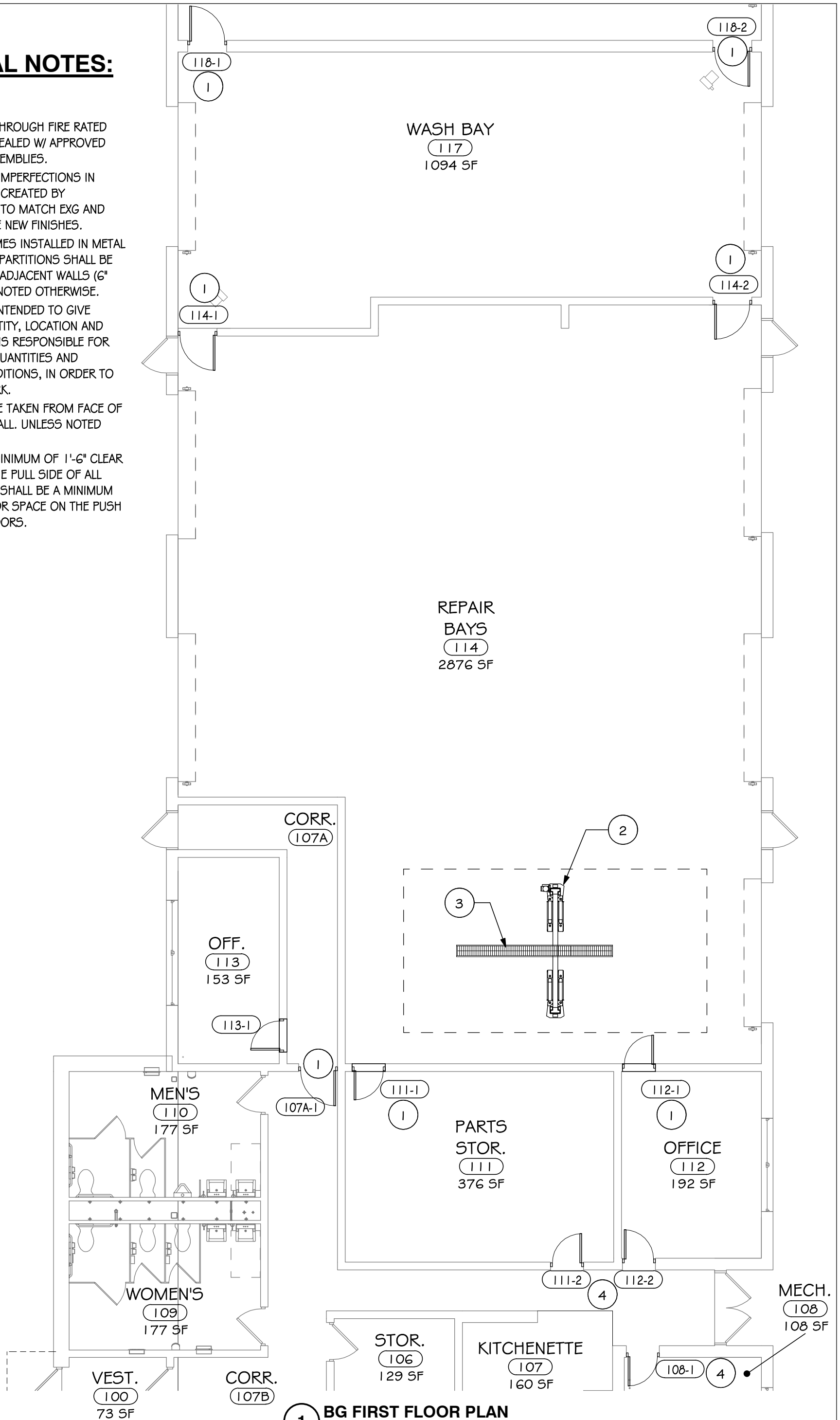
HUNT ENGINEERS | ARCHITECTS | SURVEYORS

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DESIGN BY:	DATE:	CHECKED BY:	SCALE:	REVISION:	DATE:
	3/10/2020		1/8" = 1'-0"		
IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO MAKE UNAUTHORIZED ALTERATIONS OR ADDITIONS TO PLANS DRAWN BY A LICENSED ENGINEER, ARCHITECT OR SURVEYOR.					
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GENERAL NOTES:

- A ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS TO BE SEALED W/ APPROVED U.L. FIRE RATED ASSEMBLIES.
- B FILL ALL VOIDS AND IMPERFECTIONS IN WALLS AND FLOORS CREATED BY DEMOLITION. PATCH TO MATCH EXG AND PREPARE TO RECIEVE NEW FINISHES.
- C ALL NEW DOOR FRAMES INSTALLED IN METAL STUD OR MASONRY PARTITIONS SHALL BE MOUNTED 4" FROM ADJACENT WALLS (6" TO DOOR). UNLESS NOTED OTHERWISE.
- D ITEMS SHOWN ARE INTENDED TO GIVE APPROXIMATE QUANTITY, LOCATION AND TYPE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL QUANTITIES AND EXISTING FIELD CONDITIONS, IN ORDER TO COMPLETE NEW WORK.
- E ALL DIMENSIONS ARE TAKEN FROM FACE OF WALL TO FACE OF WALL. UNLESS NOTED OTHERWISE.
- F THERE SHALL BE A MINIMUM OF 1'-6" CLEAR FLOOR SPACE ON THE PULL SIDE OF ALL NEW DOORS; THERE SHALL BE A MINIMUM OF 1'-0" CLEAR FLOOR SPACE ON THE PUSH SIDE OF ALL NEW DOORS.



1 BG FIRST FLOOR PLAN
1/8" = 1'-0"

BUS GARAGE - SED NO. 07-06-00-01-5-017-014; STORAGE BUILDING - SED NO. 07-06-00-01-2-075-002

AD2-A2

BG FIRST FLOOR PLAN
FUEL ISLAND REPLACEMENT
ELMIRA CITY SCHOOL DISTRICT
 1723 CEDAR STREET, ELMIRA, NY 14904

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DESIGN BY: MSE
 CHECKED BY: SOC
 DATE: 3/20/2020
 SCALE: 1/8" = 1'-0"
 REVISION:

Copyright: 2020

DRAWN BY: Author
 CHECKED BY: Checker
 DATE: 3/20/2020
 SCALE:
 REVISION:

IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO MAKE UNAUTHORIZED ALTERATIONS OR ADDITIONS TO PLANS BEARING A LICENSED ENGINEER'S, ARCHITECT'S OR SURVEYOR'S SEAL.

HUNT ENGINEERS | ARCHITECTS | SURVEYORS
 HORSEHEADS, NY 607 - 358 - 1000 ROCHESTER, NY 585 - 327 - 7949
 TOWANDA, PA 570 - 265 - 4888

DOOR AND FRAME SCHEDULE - FIRST FLOOR

NUMBER	DOOR					ASSEMBLY LABEL	GLAZING		HDWR SET	FRAME			DETAIL			NOTES
	TYPE	SIZE	THICK.	MATL.	FINISH		MATL.	MARKING		TYPE	MATL.	FINISH	HEAD	JAMB	SILL	
107A-1	I	3' - 0" x 7' - 0"	1 3/4"	FRP	--	B-90	--	--	3.0	A	HM	PNT	G/A.I.I	5/A.I.I		
108-1	I	2' - 6" x 7' - 0"	1 3/4"	WD	STN	C-45	--	--	2.0	A	HM	PNT	G/A.I.I	5/A.I.I		
111-1	I	2' - 6" x 7' - 0"	1 3/4"	FRP	--	B-90	--	--	2.0	A	HM	PNT	G/A.I.I	5/A.I.I		
111-2	I	2' - 6" x 7' - 0"	1 3/4"	FRP	--	C-45	--	--	1.0	A	HM	PNT	G/A.I.I	5/A.I.I		
112-1	I	2' - 6" x 7' - 0"	1 3/4"	FRP	--	B-90	--	--	1.0	A	HM	PNT	G/A.I.I	5/A.I.I		
112-2	I	2' - 6" x 7' - 0"	1 3/4"	FRP	--	C-45	--	--	1.0	A	HM	PNT	G/A.I.I	5/A.I.I		
113-1	I	2' - 6" x 7' - 0"	1 3/4"	FRP	--	C-45	--	--	1.0	A	HM	PNT	G/A.I.I	5/A.I.I		
114-1	I	3' - 0" x 7' - 0"	1 3/4"	FRP	--	--	--	--	3.0	A	FRP	--	G/A.I.I	5/A.I.I		
114-2	I	3' - 0" x 7' - 0"	1 3/4"	FRP	--	--	--	--	3.0	A	FRP	--	G/A.I.I	5/A.I.I		
118-1	I	3' - 0" x 7' - 0"	1 3/4"	FRP	--	--	--	--	3.0	A	FRP	--	G/A.I.I	5/A.I.I		
118-2	I	3' - 0" x 7' - 0"	1 3/4"	FRP	--	--	--	--	3.0	A	FRP	--	G/A.I.I	5/A.I.I		

BUS GARAGE - SED NO. 07-06-00-01-5-017-014; STORAGE BUILDING - SED NO. 07-06-00-01-2-075-002

DOOR SCHEDULE
FUEL ISLAND REPLACEMENT
ELMIRA CITY SCHOOL DISTRICT
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 PROJECT NO: 2012-223