

Scope of Work

Danby Fire District

47 Sylvan Lane – Spencer, NY 14883

Re: 2020 West Danby Fire Station Renovations

General

Summary of Work:

The project scope includes minor interior upgrades to flooring, ceilings, lighting, fire alarm, and HVAC systems. Exterior modifications include new concrete pavements, drainage, and reconstruction of water damaged portions of the building. A small, passively heated storage room addition is also planned.

Budget: +/- \$175,000 (TBD)

Allowances: None

Alternates:

1. Convert suspended ceiling system to a 2x2 layout and install 2x2 ceiling tiles.
2. Paint all existing exterior doors.
3. Provide keyless entry lock/exit device on main entry door.

Work Restrictions & Controls:

See spec Division 01 GENERAL REQUIREMENTS

Product Requirements/ Substitutions:

See spec Section 01 6000 Product Requirements

- The materials, products & equipment listed in the following Outline Specification shall adhere to the following:
 - A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
 - B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed in bid, but an alternate bid is allowed that includes a request for substitutions. If “or equal” is stated, then substitutions are acceptable without submitting a request.
 - C. Products Specified by stating it is a “Required Product:” Due to customized detailing and engineering characteristics, it is a requirement that the named product or equipment be used
 - D. Substitutions: Submit a request for substitution for any manufacturer not named. See spec section 01 2500 Substitutions.
- Install all products, equipment and systems per manufacturer’s instructions.

Inspections:

- Coordinate standard inspections by the Architect, Engineer, and building official at typical construction intervals or phases of the work.
- Special Inspections: None required except that Contractor shall coordinate concrete cylinder testing, by Owner. Testing is required for every 50 CY or each pour. See spec section 01 4522 Code-Required Special Inspections.

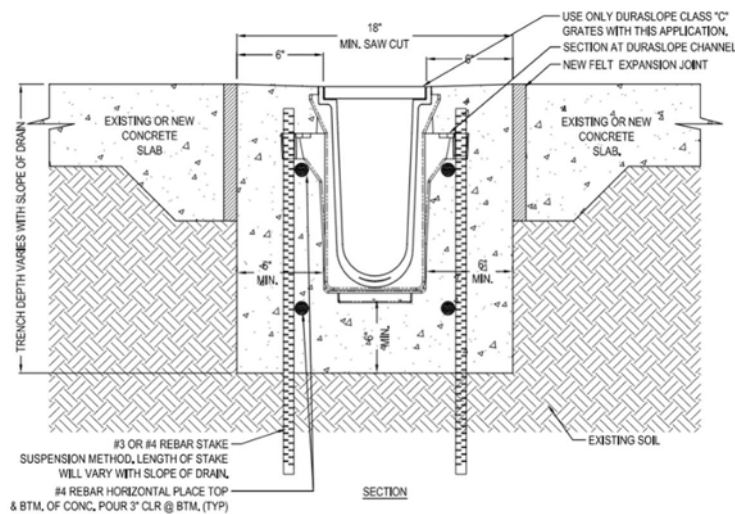
OUTLINE SPECIFICATION:

Site/Grading

- Remove existing planter bed at entry
- Remove existing concrete entry walk and garage door apron
 - Protect existing bollards to remain in place
- Garage apron to be reconfigured to provide positive draining away from building- see drawings
- Install new, enlarge concrete walk and apron
- Grind off rust and clean existing bollards prior to pouring new apron. Paint bollards with a professional DTM Alkyd enamel to provide a protective coating of exposed below grade metal and any damaged or rusty metal:
 - **Rustoleum CV740 System 100** VOC DTM Alkyd Enamel; Finish: Gloss; Color: Safety Yellow; Install per manufacturer instructions and industry standards.
 - Install **IdealShield** bollard covers
 - Cap spec: Smooth Bollard Post Sleeve, Yellow



- Exterior drainage-
 - Provide linear trench drain along entry walk and garage door apron.
 - **6" NDS Dura Slope Channel System**- Provide all accessories necessary for a complete installation. Confirm with supplier/manufacturer.



- Provide a **DS-200H ductile iron frame** (H20 rated)
- Provide a **DS-232 ductile iron grate** (H20 rated; ADA compliant)
Note: Manufacturer reports that the painted, ductile iron material will not rust

- Provide a gravel border of smooth #3 & #4 cobbles to provide and open drainage bed along north and west walls of Assembly.
 - Install 4" perforated HDPE pipe wrapped in filter fabric along bottom of bed and connect to trench drain with solid SDR35 PVC pipe
 - Provide 6"x 3/16" aluminum edging along perimeter; Color: Black
 - **Permaloc Cleanline XL or equal**

Concrete

- Entry walk, garage apron and exterior slab at Assembly Room rear exit.
- Frost-protected shallow foundation/slab on grade at storage addition
- Piers at garage door jambs

Specification (See spec section 03 3000 for additional requirements):

Compressive strength: 5,000 psi;

Water-cement ratio: Max. 45% by weight;

Air entrainment: 6% by volume;

Max slump: 3" or as allowed by water-reducing admixtures;

Max. aggregate size: ¾";

Fly ash or slag content: Max. 15% by weight;

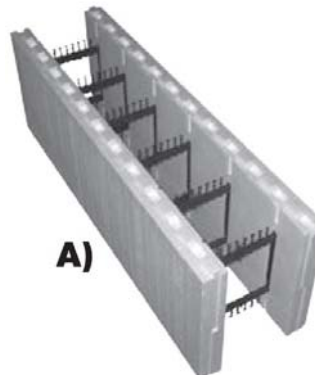
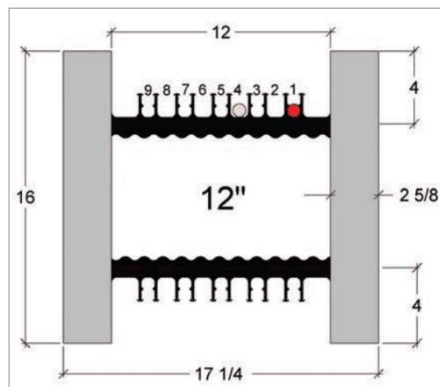
Waterproofing admix: XYPEX Admix C-1000;

Reinforcement:

- 8" slabs: #4 bars at 12" OC each way with 2 ½" cover from bottom
- 5" slabs: 6"x6"xW2.9xW2.9 welded wire mesh
- Piers: (8) #4 vertical bar & #3 ties 12" OC, triple band @ top 4" OC. See Details.
- Frost-protected shallow foundation/slab: (2) #4 horizontal bar continuous & #4 bent bar 48" OC

- Resurface existing slabs to remain under shed roof area.
 - **Required Product: XYPEX Restora-Top 50;** Apply coating up to ½" thick.

- Epoxy anchoring system: **DeWalt PURE110+ or equal**
- Insulated Concrete Forms (ICF)
 - 12" blocks, straight & corner 90 degree block
 - **Fox Block or equal**



- Protection Board
 - Durock ½" x 4' x 8' cement board or equal



Masonry:

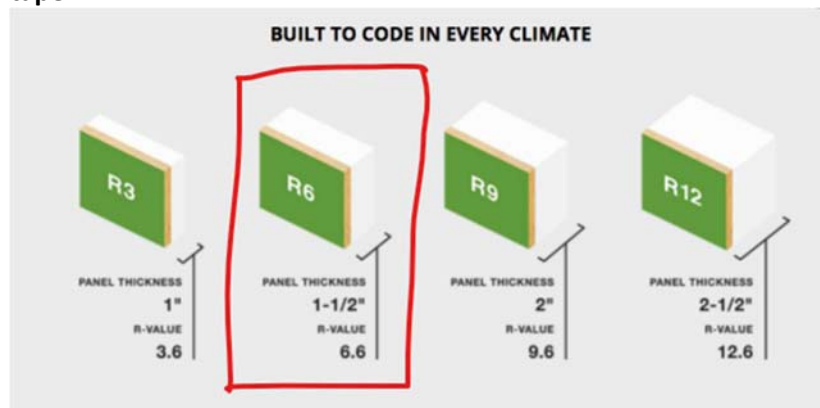
- Install manufactured stone veneer and sill as shown on elevations per manufacturer's instructions.
 - **Dutch Quality Stone; Ledgestone; Color: Quail Grey with gray "Water Table Sill"**



Note: Sill color to be gray as well

Metals - Woods & Plastics – Thermal & Moisture

- **Metal Framing:**
 - Light-gauge metal framing
 - New abuse wall on north side of building
 - Framing around new storage room door
 - **Clark-Dietrich S162** framing (1 5/8" flange); Punched; 20 ga.; Sizes per drawings
 - Chief Metal building framing elements- C-shaped girts; Match existing sizes
 - Assess bottom of all framing at all work areas for deterioration. Replace/repair as required. Consult Architect and provide repair detail.
- **Wood Framing:**
 - SPF #2 or better framing
 - Pressure treated SYP #2 or better framing in contact with concrete
- **Sheathing & Wood Paneling:**
 - **1 ½" Zip-R** insulated sheathing (R-6)/ integral weather-resistive barrier taped with **Zip** tape.



- Interior wall & ceiling panels in storage room:
 - ½" min. thickness; ACX plywood
- Exterior gypsum board:
 - Provide an ASTM C1177, Type X gypsum panel made of a treated, water-resistant core, and surfaced with fiberglass matting- DensGlass Sheathing or equal.
- **Siding & Exterior Trim:**
 - Siding to match existing:



- **Required Product:**
Chief AP wall panel; 24 ga. steel; 1 1/8" deep major ribs spaced 12" OC; 36" width
Color: Parchment. Verify final color selection with Architect & Owner

- **Soffit:**

- Vented Aluminum Soffit: **Amerimax 16"** white or equal
16" SOFFIT



16" FULL VENT SOFFIT

16" Full Vent Soffit

Quad 4 Profile

- Available in solid, center vent and full vent
- Durable .019" roll-formed aluminum
- Super-tough polyester paint system retains color and resists fading

Insulation:

- **GacoOnePass Low GWP F1880** spray foam (2.2 lb/CF)
 - See drawings for thicknesses
 - Aged R-value: R-7.1 @ 1"; R-30 @ 4"
 - Water vapor permeance: 0.57 perms at 3" thick (Class II vapor retarder is 1 perm or less)
 - GreenGuard Gold certified
 - Flame spread: ≤ 25 ; Smoke Developed: ≤ 450
 - Thermal barrier requirement:
 - Cover all surfaces of foam with **DC315 intumescent coating** or similar per code report CCRR-1106;
- Foil-faced board insulation: Provide 1 1/2", glass-fiber-reinforced polyisocyanurate foam board meeting ASTM C1289; R-value- 6.5 per inch MIN; Tape & seal with aluminum foil tape, or liquid sealant, and follow all other manufacturer's instructions.
- See spec section 07 2100 Thermal Insulation for additional insulation types.

Exterior Doors & Windows:

- No window related work in project scope
- Replace existing entry door with side lite/transom and truck bay access door with transom.
 - **Required Product: Special-Lite AF100** smooth fiberglass doors
 - Frame: **AF-150**; 5 ¾"; Chemically welded
 - Colors:
 - Door panel: Tan
 - Frame: White
 - Bottom: Flush
 - Weatherstripping
 - Door sweep: Pultruded door sweep
 - Threshold: Pultruded threshold
 - Transom/Sidelights: See drawings
 - Glass type: 1" tempered (¼" - 1/2" spacer - ¼")
 - Gas: Argon
 - Coating: Low E
 - Color: Clear
 - U-value: 0.24 winter
 - Product: Vitro Solarban 60 or equal
- Install new reverse angle weather seals on OH doors
- Existing Doors:
 - Replace Sills
 - Replace Sweeps
 - Replace Weather-stripping

Interior Doors

- Storage Room:
 - **Steelcraft** steel hollow core metal door & welded frame;
 - 6'-0" x 7'-0" with 5 ¾" frame
 - **L20 (20 ga) with F16 (16ga.) frame**
 - Standard edge
 - Fire rating: ¾ hour
 - Grade 1 hardware
 - Cylindrical lock
 - Kick plate: Brushed stainless steel; 36"x12"; Both sides
 - Air transfer grille:
 - Provide 2'x2' louver in each leaf
 - Primed
 - Field-painted- See Painting section

Door Hardware

- Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.
- Coordinate and provide all standard accessories, i.e. door bumps, stops, weather-stripping etc.- see spec section 08 7100; Provide submittal.
- Hardware color: Satin Chrome. Verify in field and coordinate final selection with Architect and Owner.
- Hinges on exterior doors: **Select-Hinges SL-11HD, continuous hinge**
- Hinges on interior doors: **Five-knuckle full mortise butt hinges**
- Closers: **Falcon SC80**



- **Door Locks**
 - **Exterior Doors:**
 - Mortise locks: **Falcon MA**



- **Interior Doors:**
 - Cylindrical Locks: **Falcon T**
 - Grade 1; Lever handle "Dane" style



- Exit Devices: **Falcon 25**



Keyless locks:

- Specified doors to be installed with keyless entry. See plans
- Access Control Lock: **Schlage NDEBP6D-RHO-626**



- Software: Engage
 - Program Reader: MT20W
 - Fobs: 7610T
 - Note: The software is downloadable off the app store or from <https://portal.allegionengage.com/signin>. The MT20W is for entering new credentials into the system. The 7610T fobs are for use when a blue tooth credential cannot be used. For additional support contact Rich Pestorius of Allegion/ Schlage at 585-314-8122.
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- **Alternate:** Provide keyless entry lock on main entry door
 - Motorized exit device
 - Include smart software compatibility with wi-fi system

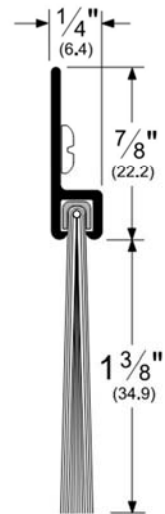
- Door sweeps: **Pemko 18137_NB**; PW- Painted White;

Pemko Brush Gasketing: 180° Aluminum Retainers

18137_NB



AVAILABLE FINISHES: C, D, G, PW
 WIDTH: 1/4" (6.4 mm)
 PROFILE HEIGHT: 7/8" (22.2 mm)
 HEIGHT INCLUDING BRUSH: 2-1/4" (57.2 mm)



C (Clear Anodized Aluminum)
 D (Dark Bronze Anodized Aluminum)
 G (Gold Anodized Aluminum)
PW (Painted White Aluminum)

- Threshold: **Pemko 253x4_FG** (Mill finish aluminum); 7 1/8" wide x 1/2" height; Aluminum; Cut/notch to fit entire door wall opening.

253x4_FG

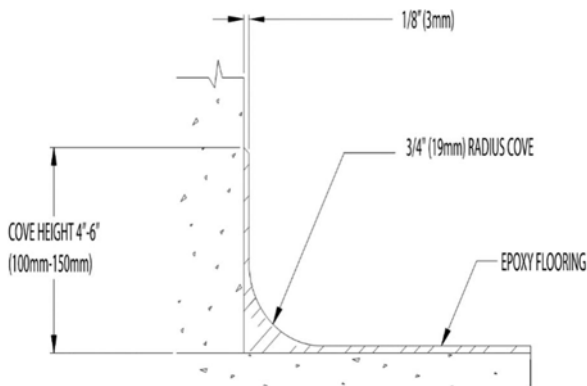
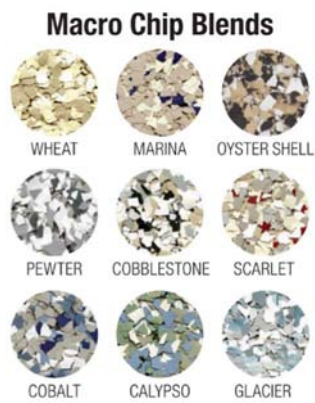


AVAILABLE FINISHES: A, B, D, G
 WIDTH: 7-1/8" (181.0 mm)
 HEIGHT: 1/2" (12.7 mm)



Flooring:

- Remove all Vinyl Composition Tile (VCT) flooring and install epoxy flooring. See Room Finish Schedule.
 - **Dur-A-Flex epoxy flooring**
 - **Epoxy-1:** Bathrooms & utility room, assembly room, offices, & hall: **Hybri-Flex EC**
 - 1/8" to 3/16" thick; Macro chip (vinyl); Color: Final selection by Architect & Owner
 - **Epoxy-2:** Kitchen: **Hybri-Flex EQ**
 - 3/16" to 1/4" thick; Q11 quartz; Color: Final selection by Architect & Owner



Drywall & Painting

- Drywall- Provide an ASTM C1396/C1396M, Type X gypsum panel; Level 4 finish per ASTM C840.

- Paint

- Primer plus 2 coats
- Interior trim

For Gypsum Board, GI-OP-3LA- Gypsum Board, Latex-Acrylic, 3 Coat:

1. One coat of acrylic primer sealer; **Sherwin-Williams ProMar 200** Zero VOC Latex Primer, B28W02600

Walls:

- a. Eggshell: Two coats of latex-acrylic enamel; **Sherwin-Williams Pro Industrial DTM Acrylic Eg-Shel**, B66Series

Ceilings:

- b. Flat: Two coats of latex enamel-acrylic; **Sherwin-Williams DTM Acrylic Primer/Finish**, B66W11.

Interior doors/Storage Room:

1. Paint MI-OP-2L - Ferrous Metals, Primed, Latex, 2 Coat:
 - Touch-up with latex primer
 - Semi-gloss: Two coats of latex; **Sherwin-Williams Pro Industrial DTM Acrylic B66 Series**

Ceiling finishes:

- Remove & replace existing lay-in ceiling tiles. Preserve existing ceiling grid.
 - **Armstrong "Kitchen Zone"** square (24x48x5/8"- Item 672), lay-in tile; Texture: Smooth



- **Alternate:** Provide 2x2 tile (Item 673) & additional ceiling grid members.
- Plywood ceiling, see Wood section

Interior Trim:

- NA
- Existing resilient base to be removed.

Specialties:

- Insect Control
 - Prevent bee & wasp intrusion into generator room
 - Provide & install screen over louvers



- Frame: 1"x 5/8" Heavy duty extruded screen frame

Heavy Duty Extruded Screen Frame



Make commercial grade new or replacement screens with our affordable EXTRUDED aluminum frame. Much stronger than rolled aluminum, commercial frame allows you to make screens for large windows without the need for cross braces. It is also ideal in environments where children or pets damage the screen frame.

- * Length = 96"
- * Package of 6
- * Use .155 spline for regular fiberglass screen mesh
- * Use .145 spline for heavier mesh such as aluminum and sun control screening

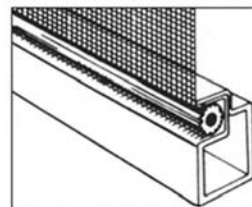
Whether you are in the market for insect screening or replacement sliding

- .145" vinyl serrated screen spline

.145" Vinyl Serrated Screen Spline



Hover over the image to zoom.
Click the image for a popup.



Holds Screen Wire
Securely in Screen Frame

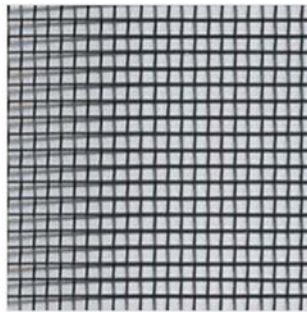
- HD frame corners

HD Frame Corners,



- Aluminum insect screen

Aluminum Screen Wire



Aluminum Screen Wire

Aluminum Insect Screening is rust and corrosion resistant. Its a consistent weave, high quality aluminum screening and is suitable for most door and window applications. The strong aluminum material is rigid enough to hold its shape during fabrication and the seasonal installation and removal cycles common to many parts of the country.

Aluminum screening is ideal for porches, patios, doors, windows and screen rooms. Aluminum screen mesh colors are brite and black.

Note: Aluminum screening is harder to work with and install. If you haven't worked with it before, we recommend that you choose one of the fiberglass screening selections.

 Hover over the image to zoom.
Click the image for a popup.

- Prevent millipede intrusion into building: Remove & replace sill, sweep, and weather-stripping at all exterior doors. See "Door Hardware".

Signage

- Temporarily remove & reinstall existing ADA parking sign (ADA parking space & existing mailbox to remain in existing location)

Equipment:

- NA

Plumbing:

- Compressed air lines at shore power drops. Extend black iron piping along shore power bracket and relocate compressed air connection fitting/ shutoff- see plans.

Lighting Fixtures:

- Remove & replace existing lighting fixtures, upgrade to LED lighting
 - 2’x4’Architectural LED Suspended Linear-Direct 4000K Lumen (Recessed mount)

- **Oracle Lighting: 24-FPL-BL-LED-4000-DIM10-MVOLT-40K-85**



- 2’x4’Architectural LED Suspended Linear-Direct (Surface mount)

- **Oracle Lighting: 24-FPL-BL-LED-4000-DIM10-MVOLT-40K-85-24-FPL1-LED-SMK**



Option for Flange Kits, Surface Mount and more.

- Architectural LED Suspended Linear-Direct (Surface mount)

- **Oracle Lighting: 4-OEW-LED-4000L-DIM10-MVOLT-40K-85**



Electrical equipment:

- Shore power drops- Modify/extend existing conduit/power to end of shore power bracket and relocate duplex receptacle (provide new receptacle).
- Magnetic hold open devices- See fire alarm section below

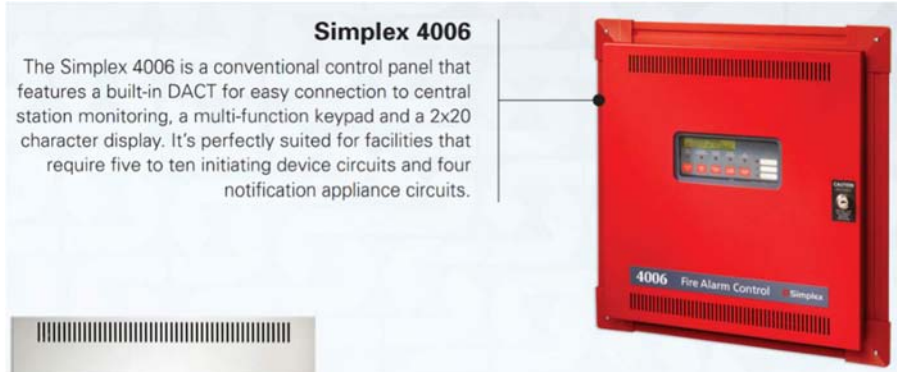
HVAC:

- Existing furnaces were upgraded approximately 5 years ago to propane.
- Add condensing units and DX coils to provide cooling in main building
 - DX cooling coils
 - CC-1: Airtemp C6BAX36C
 - CC-2: Airtemp C6BAX18C
 - Condensing Units
 - CU-1: Airtemp VS4BD036K; 35A 2P
 - CU-2: Airtemp VS4BD018K; 20A 2P
- Install Dektite High-Temp Red Silicone pipe boots on existing furnace exhaust vents



FIRE ALARM/ SECURITY:

- Fire Alarm Control Panel
 - Simplex: Model 4006



- Add magnetic hold open devices
 - Hold Door Device: SEM7800 Series



- Replace horn/strobe devices:
 - Horn/strobe: Simplex 4906-9127 Red



- Weatherproof Horn/strobe: Simplex 4906-9131 WP Red

