

EXHIBIT F-1 SEED PROJECT  
NOTICE OF PROPOSED PROJECT, PROPOSAL FORM

**Date:**

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

**CAT I \$2,000 - \$1,000,000**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

Item Number	Description	Lump Sum Amount
0001	GENERAL CONSTRUCTION: Work includes the necessary supervision, labor, equipment, material, transportation, testing and infrastructure required to complete work for Building 1 Fire Door Repairs, Providence Veterans Affairs Medical Center, Providence, Rhode Island in accordance with the Contract Documents, including Technical Specifications and Drawings. Work includes, but is not limited to, general construction, selective demolition, alterations, ceilings, partition renovation, doors, finishes, miscellaneous specialties, electrical, and certain other items. Replace and Repair fire doors on 7 Floors between Building 1 and E-Wing.	

INCLUDE A DETAILED PRICE BREAKDOWN ATTACHED TO THIS PROPOSAL.

\_\_\_\_\_  
SIGNATURE:

\_\_\_\_\_  
COMPANY NAME

\_\_\_\_\_  
Name and title of person authorized to sign

\_\_\_\_\_  
Offer Date

**EXHIBIT E - SEED CALCULATION OF SELF-PERFORMED WORK****NOTICE OF PROPOSED PROJECT, PROPOSAL FORM**

PROJECT: Project 650-16-011, Fire Door Repairs, Providence, RI VISN 1

**Date:**

Use a format similar to the following to identify and calculate cost of the work to be self-performed. Refer to the definitions **PROJECT TITLE AND NO.** Project 650-16-011, Fire Door Repairs, Providence, RI be performed under the contract". (Includes mobilization and utilization of owned or rented plant and equipment to be operated by the prime contractor's own employees; only **PROJECT DESCRIPTION** The Contractor shall provide all labor, materials, equipment, and supplies associated with disposal and supervision of materials to equipment, plant, those supplies and directly support work performed by the contractor's own employees and certify the doors as fully operational, job overhead costs. **NOA: Specifications** of this set-aside is to have actual work performed by the Contractor's own forces or the forces of other SDVOSB contractors and not just "contract management". This contract is not intended for **CONTRACT MANAGEMENT FIRMS** \$2,000-\$100,000.

**MAGNITUDE OF PROJECT:** Self-performed \$100,000 and \$250,000**PERFORMANCE PERIOD:** 365 Calendar Days**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

B.1 Total Offer Price: \$ \_\_\_\_\_

B.2 If applying for consideration as a General Contractor (multi-discipline projects) subtract Specialty Trades (Unless being

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

B.3 Subtract G&amp;A, home office overhead, prime contractor's markups for profit, bond, state use tax, etc. (\$) \_\_\_\_\_

B.4 Remainder is "Total amount of work to be performed under the Contract" = \$ \_\_\_\_\_

B.5 "Work to be self-performed": = \$ \_\_\_\_\_ Amount shown on this line should match the amount shown for "Show Calculation of Self-Performed work"?

(Includes mobilization and utilization of owned or rented plant and equipment to be operated by the prime contractor's own employees; only those materials which will be both purchased and installed by the prime's own forces; labor associated with those aforementioned materials or equipment; only those supplies to directly support work performed by the contractor's own employees; and the contractor's own job overhead costs.)

B.6 15 % Self-performed Work = Line B.5 / B.4 X 100% = \_\_\_\_\_ %

~~June 07, 2017~~ **SEED PROJECT**

NOTICE OF PROPOSED PROJECT, PROPOSAL FORM

## **CONTRACTOR SCOPE OF WORK**

~~Date:~~ **VA MEDICAL CENTER PROVIDENCE, RI**

### **Fire Door Repairs**

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

### **Project 650-16-011**

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

The Department of Veterans Affairs (VA) proposes to repair and/or replace non-compliant fire door assemblies within Building No. 1 of the Providence VA Medical Center (VAMC) campus located at 830 Chalkstone Ave., Providence, RI 02908.

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

It is the intent of the Department of Veterans Affairs, Facilities Management Section (FMS) to obtain

**PERFORMANCE PERIOD:** 365 Calendar Days

construction services to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Transportation, Testing and Infrastructure reminded that any amount awarded over \$35,000 shall require Payment Bonds; and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WORK SCOPE:** Work includes, but is not limited to, general construction, selective demolition, alterations, ceilings, partition renovation, doors, finishes, miscellaneous specialties, electrical and certain other items.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

## WAGE RATES

General Decision Number: RI180001 05/11/2018 RI1

Superseded General Decision Number: RI20170001

State: Rhode Island

Construction Types: Building, Heavy (Heavy and Marine) and Highway

Counties: Rhode Island Statewide.

**BUILDING CONSTRUCTION PROJECTS** (does not include residential construction consisting of single family homes and apartments up to and including 4 stories) **HEAVY, HIGHWAY AND MARINE CONSTRUCTION PROJECTS**

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Modification Number      Publication Date

0	01/05/2018
1	01/12/2018
2	01/19/2018
3	03/02/2018
4	03/16/2018
5	05/11/2018

ASBE0006-006 06/01/2015

Rates      Fringes

### HAZARDOUS MATERIAL HANDLER

(Includes preparation,  
wetting, stripping, removal  
scrapping, vacuuming, bagging  
& disposing of all insulation  
materials, whether they  
contain asbestos or not, from  
mechanical systems).....\$ 31.63      18.30

-----  
ASBE0006-008 09/01/2017

Rates      Fringes

Asbestos Worker/Insulator  
Includes application of  
all insulating materials,  
protective coverings,  
coatings & finishes to all  
types of mechanical systems.\$ 41.48      27.35

-----  
BOIL0029-001 01/01/2017

Rates      Fringes

BOILERMAKER.....\$ 42.42      24.92

-----  
BRII0003-001 12/01/2017

Rates      Fringes

Bricklayer, Stonemason,  
Pointer, Caulker & Cleaner.....\$ 37.38      26.59

-----  
BRII0003-002 03/01/2018

Rates      Fringes

Marble Setter, Terrazzo

Worker & Tile Setter.....\$ 37.16      27.66

-----  
BRRI0003-003 03/01/2018

	Rates	Fringes
Marble, Tile & Terrazzo Finisher.....	\$ 31.32	26.30

-----  
CARP0094-001 06/05/2017

	Rates	Fringes
CARPENTER (Includes Soft Floor Layer).....	\$ 35.28	27.15
Diver Tender.....	\$ 36.28	27.15
DIVER.....	\$ 47.08	27.15
Piledriver.....	\$ 35.28	27.15
WELDER.....	\$ 36.28	27.15

FOOTNOTES:

When not diving or tending the diver, the diver and diver tender shall receive the piledriver rate. Diver tenders shall receive \$1.00 per hour above the pile driver rate when tending the diver.

Work on free-standing stacks, concrete silos & public utility electrical power houses, which are over 35 ft. in height when constructed: \$.50 per hour additional.

Work on exterior concrete shear wall gang forms, 45 ft. or more above ground elevation or on setback: \$.50 per hour additional.

The designated piledriver, known as the "monkey": \$1.00 per hour additional.

-----  
CARP1121-002 10/01/2017

	Rates	Fringes
MILLWRIGHT.....	\$ 36.85	27.50

-----  
ELEC0099-002 06/01/2017

	Rates	Fringes
ELECTRICIAN.....	\$ 38.08	57.24%
Teledata System Installer.....	\$ 28.56	13.1%+13.76

FOOTNOTES:

Work of a hazardous nature, or where the work height is 30 ft. or more from the floor, except when working OSHA-approved lifts: 20% per hour additional.

Work in tunnels below ground level in combined sewer outfall: 20% per hour additional.

-----  
ELEV0039-001 01/01/2018

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 49.96	32.645+A+B

FOOTNOTES:

A. PAID HOLIDAYS: New Years Day; Memorial Day; Independence Day; Labor Day; Veterans' Day; Thanksgiving Day; the Friday after Thanksgiving Day; and Christmas Day.

B. Employer contributes 8% basic hourly rate for 5 years or more of service of 6% basic hourly rate for 6 months to 5 years of service as vacation pay credit.

-----  
ENGI0057-001 12/03/2017

	Rates	Fringes
Operating Engineer: (power plants, sewer treatment plants, pumping stations, tunnels, caissons, piers, docks, bridges, wind turbines, subterranean & other marine and heavy construction work)		

GROUP 1.....	\$ 37.90	25.10+a
GROUP 2.....	\$ 33.52	25.10+a
GROUP 3.....	\$ 30.67	25.10+a
GROUP 4.....	\$ 36.95	25.10+a
GROUP 5.....	\$ 27.75	25.10+a
GROUP 6.....	\$ 21.75	25.10+a
GROUP 7.....	\$ 33.60	25.10+a
GROUP 8.....	\$ 37.52	25.10+a

a. BOOM LENGTHS, INCLUDING JIBS:

150 feet and over + \$ 2.00  
180 feet and over + \$ 3.00  
210 feet and over + \$ 4.00  
240 feet and over + \$ 5.00  
270 feet and over + \$ 7.00  
300 feet and over + \$ 8.00  
350 feet and over + \$ 9.00  
400 feet and over + \$10.00

a. PAID HOLIDAYS: New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day, Christmas Day. a: Any employee who works 3 days in the week in which a holiday falls shall be paid for the holiday.

a. FOOTNOTES:

Hazmat work: \$2.00 per hour additional.

Tunnel/Shaft work: \$5.00 per hour additional.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Digging machine, Ross Carrier, crane, lighter, locomotive, derrick, hoist, elevator, bidwell-type machine, shot & water blasting machine, paver, spreader, graders, front end loader (3 yds. and over), vibratory hammer & vacuum truck, roadheaders, forklifts, economobile type equipment, tunnel boring machines, concrete pump and on site concrete plants.

GROUP 2: Oilers on cranes.

GROUP 3: Oiler on crawler backhoe.

GROUP 4: Bulldozer, bobcats, skid steer loader, tractor, scraper, combination loader backhoe, roller, front end loader (less than 3 yds.), street and mobile-powered sweeper (3-yd. capacity), 8-ft. sweeper minimum 65 HP).

GROUP 5: Well-point installation crew.

GROUP 6: Utility Engineers and Signal Persons

GROUP 7: Heater, concrete mixer, stone crusher, welding machine, generator and light plant, gas and electric driven pump and air compressor.

GROUP 8: Boat & tug operator.

-----  
ENGI0057-002 11/06/2017

Rates      Fringes

Power Equipment Operator  
(highway construction  
projects; water and sewerline  
projects which are incidental  
to highway construction  
projects; and bridge projects  
that do not span water)

GROUP 1.....	\$ 33.05	25.10+a
GROUP 2.....	\$ 27.75	25.10+a
GROUP 3.....	\$ 21.75	25.10+a
GROUP 4.....	\$ 28.33	25.10+a
GROUP 5.....	\$ 32.03	25.10+a
GROUP 6.....	\$ 31.65	25.10+a
GROUP 7.....	\$ 27.30	25.10+a
GROUP 8.....	\$ 28.68	25.10+a
GROUP 9.....	\$ 30.63	25.10+a

a. FOOTNOTE: a. Any employee who works three days in the week in which a holiday falls shall be paid for the holiday.

a. PAID HOLIDAYS: New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day & Christmas Day.

#### POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Digging machine, crane, piledriver, lighter, locomotive, derrick, hoist, boom truck, John Henry's, directional drilling machine, cold planer, reclaimer, paver, spreader, grader, front end loader (3 yds. And over), vacuum truck, test boring machine operator, veemere saw, water blaster, hydro-demolition robot, forklift, econobile, Ross Carrier, concrete pump operator and boats

GROUP 2: Well point installation crew

GROUP 3: Utility engineers and signal persons

GROUP 4: Oiler on cranes

GROUP 5: Combination loader backhoe, front end loader (less than 3 yds.), forklift, bulldozers & scrapers and boats

GROUP 6: Roller, skid steer loaders, street sweeper

GROUP 7: Gas and electric drive heater, concrete mixer, light plant, welding machine, pump & compressor

GROUP 8: Stone crusher

GROUP 9: Mechanic & welder

-----  
ENGI0057-003 12/03/2017

#### BUILDING CONSTRUCTION

	Rates	Fringes
Power Equipment Operator		
GROUP 1.....	\$ 37.17	25.10+a
GROUP 2.....	\$ 36.95	25.10+a
GROUP 3.....	\$ 32.95	25.10+a
GROUP 4.....	\$ 30.10	25.10+a
GROUP 5.....	\$ 36.25	25.10+a
GROUP 6.....	\$ 35.82	25.10+a
GROUP 7.....	\$ 33.14	25.10+a

#### a. BOOM LENGTHS, INCLUDING JIBS:

150 ft. and over: + \$ 2.00

180 ft. and over: + \$ 3.00

210 ft. and over: + \$ 4.00

240 ft. and over: + \$ 5.00

270 ft. and over: + \$ 7.00

300 ft. and over: + \$ 8.00

350 ft. and over: + \$ 9.00

400 ft. and over: + \$10.00

a. PAID HOLIDAYS: New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day & Christmas Day. a: Any employee who works 3 days in the week in which a holiday falls shall be paid for the holiday.

a. FOOTNOTE: Hazmat work: \$2.00 per hour additional.

Tunnel/Shaft work: \$5.00 per hour additional.

#### POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Digging machine, Ross carrier, crane, boomtrucks, lighter, locomotive, derrick, hoist, elevator, bidwell-type machine, shot & water blasting machine, paver, spreader, front end loader (3 yds. and over), vibratory hammer and vacuum truck

GROUP 2: Telehandler equipment, forklift, concrete pump & on-site concrete plant

GROUP 3: Fireman & oiler

GROUP 4: Oiler on crawler backhoe

GROUP 5: Bulldozer, skid steer loaders, bobcats, tractor, grader, scraper, combination loader backhoe, roller, front end loader (less than 3 yds.), street and mobile powered sweeper (3 yds. capacity), 8-ft. sweeper (minimum 65 hp)

GROUP 6: Well point installation crew

GROUP 7: Heater, concrete mixer, stone crusher, welding machine, generator for light plant, gas and electric driven pump & air compressor

-----  
IRON0037-001 09/16/2017

	Rates	Fringes
--	-------	---------

IRONWORKER.....\$ 34.89      26.87

LABO0271-001 06/05/2016  
BUILDING CONSTRUCTION

Rates      Fringes

LABORER

GROUP 1.....	\$ 29.20	23.80
GROUP 2.....	\$ 29.45	23.80
GROUP 3.....	\$ 29.95	23.80
GROUP 4.....	\$ 30.20	23.80
GROUP 5.....	\$ 31.20	23.80

LABORERS CLASSIFICATIONS

GROUP 1: Laborer, Carpenter Tender, Mason Tender, Cement Finisher Tender, Scaffold Erector, Wrecking Laborer, Asbestos Removal [Non-Mechanical Systems]

GROUP 2: Asphalt Raker, Adzemen, Pipe Trench Bracer, Demolition Burner, Chain Saw Operator, Fence & Guard Rail Erector, Setter of Metal Forms for Roadways, Mortar Mixer, Pipelayer, Riprap & Dry Stonewall Builder, Highway Stone Spreader, Pneumatic Tool Operator, Wagon Drill Operator, Tree Trimmer, Barco-Type Jumping Tamper, Mechanical Grinder Operator

GROUP 3: Pre-Cast Floor & Roof Plank Erectors

GROUP 4: Air Track Operator, Hydraulic & Similar Self-Powered Drill, Block Paver, Rammer, Curb Setter, Powderman & Blaster

GROUP 5: Toxic Waste Remover

LABO0271-002 06/05/2016

HEAVY AND HIGHWAY CONSTRUCTION

Rates      Fringes

LABORER

COMPRESSED AIR

Group 1.....	\$ 46.63	21.80
Group 2.....	\$ 36.15	21.80
Group 3.....	\$ 48.63	21.80

FREE AIR

Group 1.....	\$ 38.70	21.80
Group 2.....	\$ 36.15	21.80
Group 3.....	\$ 40.70	21.80

LABORER

Group 1.....	\$ 29.20	21.80
Group 2.....	\$ 29.45	21.80
Group 3.....	\$ 30.20	21.80
Group 4.....	\$ 22.70	21.80
Group 5.....	\$ 31.20	21.80

OPEN AIR CAISSON,

UNDERPINNING WORK AND

BORING CREW

Bottom Man.....	\$ 35.20	21.80
Top Man & Laborer.....	\$ 34.25	21.80

TEST BORING

Driller.....	\$ 35.65	21.80
Laborer.....	\$ 34.25	21.80

LABORER CLASSIFICATIONS

GROUP 1: Laborer; Carpenter tender; Cement finisher tender; Wrecking laborer; Asbestos removers [non-mechanical systems]; Plant laborer; Driller in quarries

GROUP 2: Adzeperson; Asphalt raker; Barcotype jumping tamper; Chain saw operators; Concrete and power buggy operator; Concrete saw operator; Demolition burner; Fence and guard rail erector; Highway stone spreader; Laser beam operator; Mechanical grinder operator; Mason tender; Mortar mixer; Pneumatic tool operator; Riprap and dry stonewall



builder; Scaffold erector; Setter of metal forms for roadways; Wagon drill operator; Wood chipper operator; Pipelayer; Pipe trench bracer

GROUP 3: Air track drill operator; Hydraulic and similar powered drills; Brick paver; Block paver; Rammer and curb setter; Powderperson and blaster

GROUP 4: Flagger & signaler

GROUP 5: Toxic waste remover

#### LABORER - COMPRESSED AIR CLASSIFICATIONS

GROUP 1: Mucking machine operator, tunnel laborer, brake person, track person, miner, grout person, lock tender, gauge tender, miner: motor person & all others in compressed air

GROUP 2: Change house attendant, powder watchperson, top person on iron

GROUP 3: Hazardous waste work within the "HOT" zone

#### LABORER - FREE AIR CLASSIFICATIONS

GROUP 1: Grout person - pumps, brake person, track person, form mover & stripper (wood & steel), shaft laborer, laborer topside, outside motorperson, miner, conveyor operator, miner welder, heading motorperson, erecting operator, mucking machine operator, nozzle person, rodperson, safety miner, shaft & tunnel, steel & rodperson, mole nipper, concrete worker, form erector (wood, steel and all accessories), cement finisher (this type of work only), top signal person, bottom person (when heading is 50' from shaft), burner, shield operator and TBM operator

GROUP 2: Change house attendant, powder watchperson

GROUP 3: Hazardous waste work within the "HOT" zone

-----

PAIN0011-005 06/01/2017

	Rates	Fringes
PAINTER		
Brush and Roller.....	\$ 32.72	20.45
Epoxy, Tanks, Towers, Swing Stage & Structural Steel.....	\$ 34.72	20.45
Spray, Sand & Water Blasting.....	\$ 35.72	20.45
Taper.....	\$ 33.47	20.45
Wall Coverer.....	\$ 33.22	20.45

-----

PAIN0011-006 06/01/2017

	Rates	Fringes
GLAZIER.....	\$ 36.28	20.45

#### FOOTNOTES:

SWING STAGE: \$1.00 per hour additional.

PAID HOLIDAYS: Labor Day & Christmas Day.

-----

PAIN0011-011 06/01/2017

	Rates	Fringes
Painter (Bridge Work).....	\$ 48.55	20.45

-----

PAIN0035-008 06/01/2011

	Rates	Fringes
Sign Painter.....	\$ 24.79	13.72

-----

PLAS0040-001 01/01/2018

#### BUILDING CONSTRUCTION

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 34.75	27.30

FOOTNOTE: Cement Mason: Work on free swinging scaffolds under 3 planks width and which is 20 or more feet above ground and any offset structure: \$.30 per hour additional.

-----

PLAS0040-002 01/01/2018

#### HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 30.70	22.00

-----  
PLAS0040-003 01/01/2018

	Rates	Fringes
PLASTERER.....	\$ 34.75	27.30

-----  
PLUM0051-002 09/01/2017

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 40.69	28.80

-----  
ROOF0033-004 12/01/2017

	Rates	Fringes
ROOFER.....	\$ 35.50	24.37

-----  
SFRI0669-001 04/01/2017

	Rates	Fringes
SPRINKLER FITTER.....	\$ 43.92	21.49

-----  
SHEE0017-002 03/01/2018

	Rates	Fringes
Sheet Metal Worker.....	\$ 35.17	34.59

-----  
\* TEAM0251-001 05/01/2018

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
TRUCK DRIVER		
GROUP 1.....	\$ 27.21	25.7525+A+B+C
GROUP 2.....	\$ 27.36	25.7525+A+B+C
GROUP 3.....	\$ 27.41	25.7525+A+B+C
GROUP 4.....	\$ 27.46	25.7525+A+B+C
GROUP 5.....	\$ 27.56	25.7525+A+B+C
GROUP 6.....	\$ 27.96	25.7525+A+B+C
GROUP 7.....	\$ 28.16	25.7525+A+B+C
GROUP 8.....	\$ 27.66	25.7525+A+B+C
GROUP 9.....	\$ 27.91	25.7525+A+B+C
GROUP 10.....	\$ 27.71	25.7525+A+B+C

#### FOOTNOTES:

A. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, plus Presidents' Day, Columbus Day, Veteran's Day & V-J Day, providing the employee has worked at least one day in the calendar week in which the holiday falls.

B. Employee who has been on the payroll for 1 year or more but less than 5 years and has worked 150 Days during the last year of employment shall receive 1 week's paid vacation; 5 to 10 years - 2 weeks' paid vacation; 10 or more years - 3 week's paid vacation.

C. Employees on the seniority list shall be paid a one hundred dollar (\$100.00) bonus for every four hundred (400) hours worked, up to a maximum of five hundred dollars (\$500.00)

All drivers working on a defined hazard material job site shall be paid a premium of \$2.00 per hour over applicable rate.

#### TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Pick-up trucks, station wagons, & panel trucks

GROUP 2: Two-axle on low beds

GROUP 3: Two-axle dump truck

GROUP 4: Three-axle dump truck

GROUP 5: Four- and five-axle equipment

GROUP 6: Low-bed or boom trailer.

GROUP 7: Trailers when used on a double hook up (pulling 2 trailers)

GROUP 8: Special earth-moving equipment, under 35 tons

GROUP 9: Special earth-moving equipment, 35 tons or over

GROUP 10: Tractor trailer

-----  
WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.  
=====

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

-----  
The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

#### ----- WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION

EXHIBIT F-1 SEED PROJECT  
NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
**TECHNICAL SPECIFICATIONS FOR  
FIRE DOOR REPAIRS**

**Date:** **VA MEDICAL CENTER**

**PROJECT TITLE AND NO.:** Project 650-16-011 Fire Door Repair Provide R1  
**VA PROJECT NUMBER 650-16-011**

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

**CAT I** \$2,000 - \$1,000,000

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days

**SITE VISIT:** A site visit for this project will be held on 3/24/18 at 11:00 am

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number R1480001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing wage determination will be in effect at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and prepare a report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**Submission Date:** January 13, 2017

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

Submitted by:

Mabbett & Associates, Inc.

5 Alfred Circle – Bedford – MA – 01730

(781) 275-6050

Prepared by:

Architect – Engineers

SMRT, Inc.

One Dundee Park, Suite 4 – Andover – MA – 01810

(978) 474-1721

For:

Department of Veterans Affairs

Network Contracting Activity 1

623 Atwells Avenue

Providence, RI 02909

(401) 273-7100



**Project Location:**  
Veterans Administration Medical Center  
830 Chalkstone Avenue  
PROVIDENCE, RHODE ISLAND 02908

EXHIBIT F-1 SEED PROJECT  
NOTICE OF PROPOSED PROJECT, PROPOSAL FORM

**Date:**

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

**CAT I** \$2,000 - \$1,000,000

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-16  
 January 13, 2017  
 Issued for Construction

Date:

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI  
**DEPARTMENT OF VETERANS AFFAIRS**  
**VHA MASTER SPECIFICATIONS**

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications. **TABLE OF CONTENTS**  
**Section 00 01 10**

**CAT I \$2,000 - \$1,000,000**

<b>MAGNITUDE OF PROJECT</b>		<b>DIVISION 00 - SPECIAL SECTIONS</b>	<b>DATE</b>
00 01 10	Table of Contents	Between \$100,000 and \$250,000	11-16
00 01 15	List of Drawing Sheets		07-15
<b>PERFORMANCE PERIOD:</b> 365 Calendar Days			
<b>SITE VISIT:</b> A site visit for this project will be held on 7/24/18 at 14:00am		<b>DIVISION 01 - GENERAL REQUIREMENTS</b>	
01 00 00	General Requirements		10-12
01 33 16 15	Entirety of Schedules (Small Projects and Considerable/Significant)		04-13
<b>PERFORMANCE &amp; PAYMENT BONDS:</b> In accordance with FAR 28.102-1 and Contract Clause 52.228-15. Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.			
01 35 33	Infection Control Procedures		
<b>WAGE DETERMINATION:</b> Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.			
01 58 16	Temporary Interior Signage		07-15
<b>PROJECT SAFETY:</b> In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.			
01 61 11	Sustainable Design Requirements		12-16
<b>PROPOSAL DUE DATE:</b> All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.		<b>DIVISION 02 - EXISTING CONDITIONS</b>	
02 41 00	Demolition		02-15
		<b>DIVISION 07 - THERMAL AND MOISTURE PROTECTION</b>	
07 84 00	Firestopping		02-16
07 92 00	Joint Sealants		10-15
		<b>DIVISION 08 - OPENINGS</b>	
08 11 13	Hollow Metal Doors and Frames		08-16
08 14 00	Interior Wood Doors		02-16
08 71 00	Door Hardware		01-16
08 71 13	Automatic Door Operators		02-16
08 80 00	Glazing		10-15
		<b>DIVISION 09 - FINISHES</b>	
09 05 16	Subsurface Preparation for Floor Finishes		02-15
09 22 16	Non-Structural Metal Framing		05-16
09 29 00	Gypsum Board		11-14
09 65 13	Resilient Base and Accessories		02-16
09 65 19	Resilient Tile Flooring		12-15
09 91 00	Painting		01-16

EXHIBIT F-1 SEED PROJECT  
VAMCs Providence Replace Fire Doors  
Providence, Rhode Island  
NOTICE OF PROPOSED PROJECT PROPOSAL FORM  
VA Project No. 650-16-011

11-01-16  
January 13, 2017  
Issued for Construction

**Date:**

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

**CAT I \$2,000 - \$1,000,000**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.



EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT PROPOSAL FORM  
 VA Project No. 650-16-011

07-01-15  
 January 13, 2017  
 Issued for Construction

**Date:**

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI  
**SECTION 00 01 15**  
**LIST OF DRAWING SHEETS**

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

Drawing No	Title
GI001	Cover Sheet, Drawing List, and Symbols
CAT I \$2,000 - \$1,000,000	
AD101	E Wing Partial Architectural Demolition Floor Plans

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000  
 AE101 E Wing Partial Architectural Floor Plans

**PERFORMANCE PERIOD:** 365 Calendar Days  
 AE601 Door Schedule and Details

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

EXHIBIT F-1 SEED PROJECT  
VAMCs Providence Replace Fire Doors  
Providence, Rhode Island  
NOTICE OF PROPOSED PROJECT PROPOSAL FORM  
VA Project No. 650-16-011

07-01-15  
January 13, 2017  
Issued for Construction

**Date:**

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

**CAT I \$2,000 - \$1,000,000**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

EXHIBIT 1-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VAMC, Providence, Rhode Island  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

Date:

**SECTION 01 00 00****GENERAL REQUIREMENTS****PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI**1.1 GENERAL INTENTION**

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

A. All employees of general contractor and subcontractors shall comply with

**CAT I \$2,000 - \$1,000,000** security management program and obtain permission of the VA police, be identified by project and employer, and restricted from unauthorized

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000 access.

**PERFORMANCE PERIOD:** 365 Calendar Days

A. In accordance with work, general contractor shall provide proof that a OSHA certified "competent person" (CP) (29 CFR 1926.20(b)(2)) will

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

A. The contractor shall maintain a presence at the work site whenever the general or

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

1. All employees of general contractor or subcontractors shall have the

**WAGE DETERMINATION:** Currently, General Decision Number RH-80901-Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompetitive.

**1.2 STATEMENT OF BID ITEMS**

A. Replace and repair fire doors on 7 Floors between Building 1 and E-Wing.

**1.3 SPECIFICATIONS AND DRAWINGS FOR CONTRACTOR**

A. AFTER AWARD OF CONTRACT, A single CD-ROM of the contract documents in pdf format will be furnished.

B. Additional sets of drawings may be made by the Contractor, at Contractor's expense, from the CD-ROM furnished by the Contracting Officer.

**1.4 CONSTRUCTION SECURITY REQUIREMENTS**

A. Security Plan:

1. The security plan defines both physical and administrative security procedures that will remain effective for the entire duration of the project.
2. The General Contractor is responsible for assuring that all sub-contractors working on the project and their employees also comply with these regulations.

B. Security Procedures:

EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VAMC, Providence, Rhode Island  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** 1. General Contractor's employees shall not enter the project site without appropriate ID. They shall also be subject to inspection of their personal effects when entering or leaving the project site.

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications. The Contractor shall give 3 day's notice to obtain approval of the Contracting Officer so that security and escort arrangements can be provided for the employees. This notice is separate from any notices required for utility shutdown described later in this section.

**CAT I \$2,000 - \$1,000,000**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days

3. No photography of VA premises is allowed without written permission of the Contracting Officer.

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

4. VA reserves the right to close down or shut down the project site and award over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-13, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, the General Decision Number RI18000 Modification No 3 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

1. The General Contractor shall provide duplicate keys and logbook.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2462 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer. Inspections of every area of project including tool boxes and parked machines and for the purpose of taking any emergency action.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

- Before starting any work, the General Contractor/Sub Contractors shall submit an electronic security memorandum describing the approach to following goals and maintaining confidentiality of "sensitive information".
- The General Contractor is responsible for safekeeping of all drawings, project manual and other project information. This information shall be shared only with those with a specific need to accomplish the project.
- Certain documents, sketches, videos or photographs and drawings may be marked "Law Enforcement Sensitive" or "Sensitive Unclassified". Secure such information in separate containers and limit the access to only those who will need it for the project. Return the information to the Contracting Officer upon request.
- These security documents shall not be removed or transmitted from the project site without the written approval of Contracting Officer.
- All paper waste or electronic media such as CD's and diskettes shall be shredded and destroyed in a manner acceptable to the VA.
- Notify Contracting Officer and Site Security Officer immediately when there is a loss or compromise of "sensitive information".

EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VAMC, Providence, Rhode Island  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** 7. All electronic information shall be stored in specified location

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications. shall be performed and tracked through the EDMS system.

**CAT I \$2,000 - \$1,000,000**

b. "Sensitive information" including drawings and other documents may

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days

E. Motor Vehicle Restrictions

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number RFI8006 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-15, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward one original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**1.5 FIRE SAFETY**

A. Applicable Publications: Publications listed below form part of this

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

basic designations only.

1. American Society for Testing and Materials (ASTM):
  - E84-2008.....Surface Burning Characteristics of Building Materials
2. National Fire Protection Association (NFPA):
  - 10-2006.....Standard for Portable Fire Extinguishers
  - 30-2007.....Flammable and Combustible Liquids Code
  - 51B-2003.....Standard for Fire Prevention During Welding, Cutting and Other Hot Work
  - 70-2007.....National Electrical Code
  - 241-2004.....Standard for Safeguarding Construction, Alteration, and Demolition Operations
3. Occupational Safety and Health Administration (OSHA):
  - 29 CFR 1926.....Safety and Health Regulations for Construction

B. Fire Safety Plan: Establish and maintain a fire protection program in accordance with 29 CFR 1926. Prior to start of work, prepare a plan detailing project-specific fire safety measures, including periodic status reports, and submit to Project Manager for review for compliance with contract requirements in accordance with Section 01 33 23, SHOP

VAMC, Providence, Rhode Island  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

- Date:** DRAWINGS, PRODUCT DATA AND SAMPLES. Prior to any worker for the
- PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI
- PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.
- CAT I \$2,000 - \$1,000,000**
- Documentation shall be provided to the Resident Engineer that
- MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000.
- PERFORMANCE PERIOD:** 365 Calendar Days
- SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.
- PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-F and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.
- WAGE DETERMINATION:** Currently, General Decision Number RH80001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.
- PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.
- PROPOSAL DUE DATE:** All offers are due with proposal for MATOC base contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.
1. Install and maintain temporary construction partitions to provide areas. Fire-retardant plastic may be used for temporary construction partitions that remain in place for more than 72 hours. Construct less in accordance with ASTM E84) on both sides of metal steel studs. Extend the partitions through suspended ceilings to floor slab deck or roof. Seal joints and penetrations. At door openings, install Class C, ¾ hour fire/smoke rated doors and frames with self-closing devices.
  2. Close openings in smoke barriers and fire-rated construction to maintain fire ratings. Seal penetrations with listed through-penetration firestop materials in accordance with Section 07 84 00, FIRESTOPPING.
- F. Temporary Heating and Electrical: Install, use and maintain installations in accordance with 29 CFR 1926, NFPA 241 and NFPA 70.
- G. Means of Egress: Do not block exiting for occupied buildings, including paths from exits to roads. Minimize disruptions and coordinate with Project Manager.
- H. Egress Routes for Construction Workers: Maintain free and unobstructed egress. Inspect daily. Report findings and corrective actions weekly to Project Manager.

VAMC, Providence, Rhode Island  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** I. Fire Extinguishers: Provide and maintain extinguishers in construction areas and throughout the project in accordance with 29 CFR 1926, NFPA 241 and NFPA 10.

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications. NFPA 241 and NFPA 30.

**CAT I \$2,000 - \$1,000,000**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000.

**PERFORMANCE PERIOD:** 365 Calendar Days

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-F and Contract Clause 52.228-13, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number RH80001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate, and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminate from the competition and offer is ineligible for a basic contract award. Basis for award is in the RFP.

- N. Fire Hazard Prevention and Safety Inspections: Inspect entire construction areas weekly. Coordinate with, and report findings and corrective actions weekly to Project Manager.
- O. Smoking: Smoking is prohibited in, and adjacent to, construction areas inside existing buildings under construction. In separate and detached buildings under construction, smoking is prohibited except in designated smoking areas.
- P. Dispose of waste and debris in accordance with NFPA 241. Remove from buildings daily.
- Q. Perform other construction, alteration and demolition operations in accordance with 29 CFR 1926.

#### 1.6 OPERATIONS AND STORAGE AREAS

- A. The Contractor shall confine all operations (including storage of materials) on Government premises to areas authorized or approved by the Contracting Officer. The Contractor shall hold and save the Government, its officers and agents, free and harmless from liability of any nature occasioned by the Contractor's performance.
- B. Temporary buildings (e.g., storage sheds, shops, offices) and utilities may be erected by the Contractor only with the approval of the

VAMC, Providence, Rhode Island  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** Contracting Officer and shall be built with labor and materials

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications. The written consent of the Contracting Officer, the buildings and utilities may be abandoned and need not be removed.

**CAT I \$2,000 - \$1,000,000**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, the General Decision Number RH80001M Modification No 5 dated 05/19/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

utility services, fire protection systems and any existing equipment, and with work being done by others. Use of equipment and tools that transmit vibrations and noises through the building structure, are not permitted in buildings that are occupied, during construction, jointly by patients or medical personnel, and Contractor's personnel, except as permitted by Resident Engineer where required by limited working space.

1. Do not store materials and equipment in other than assigned areas.
2. Schedule delivery of materials and equipment to immediate construction working areas within buildings in use by Department of Veterans Affairs in quantities sufficient for not more than two work days. Provide unobstructed access to Medical Center areas required to remain in operation.
3. Where access by Medical Center personnel to vacated portions of buildings is not required, storage of Contractor's materials and equipment will be permitted subject to fire and safety requirements.

F. Phasing: To insure such executions, Contractor shall furnish the Project Manager with a schedule of approximate phasing dates on which the Contractor intends to accomplish work in each specific areas of site, building or portion thereof. In addition, Contractor shall notify the



VAMC, Providence, Replace Fire Doors  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 Providence, Rhode Island  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** Project Manager two weeks in advance of the proposed date of starting  
 to provide a public specification area of site, Building or portion thereof. Arrange

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI  
 such phasing dates to insure accomplishment of this work in successive  
**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision  
 necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors  
 as fully operational and fire doors meeting NFPA specifications.

**CAT I \$2,000 - \$1,000,000:** All Buildings will be occupied during performance of work. Contractor

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000  
 shall take all measures and provide all material necessary for  
 protecting existing equipment and property in affected areas of

**PERFORMANCE PERIOD:** 365 Calendar Days  
 construction against dust and debris, so that equipment and affected

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am. operations will not be hindered.

Coordinate alteration work in areas occupied by Department of Veterans  
**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are  
 reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both  
 Payment and Performance Bonds. All bonds are due no later than 10 days after award.

H. Utilities Services: Maintain existing utility services for Medical  
**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to  
 this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

equipment, connections, and utilities to assure uninterrupted services.  
**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify  
 the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in  
 quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

protection systems and communications systems (including telephone),  
**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer  
 noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.  
 absence of such indication, where directed by the Project Manager.

1. No utility service such as water, gas, steam, sewers or electricity,  
 or fire protection systems and communications systems may be  
 interrupted without prior approval of the Medical Center. Electrical  
 work shall be accomplished with all affected circuits or equipment  
 de-energized. When an electrical outage cannot be accomplished, work  
 on any energized circuits or equipment shall not commence without the  
 Medical Center Director's prior knowledge and written approval.
2. Contractor shall submit a request to interrupt any such services to  
 the Medical Center Project Manager, in writing, a minimum of 15  
 calendar days in advance of proposed interruption. A minimum of 15  
 calendar days is required by Medical Center staff to assess  
 interruption impacts and to prepare mitigation measures; therefore,  
 the requirement to make utility interruption requests a minimum of 15  
 calendar days in advance of the planned interruption will not be  
 waived. Request shall state specific details of the interruption to  
 include identification of the utility system and device to be  
 interrupted, its location, reason, date, exact time of, and  
 approximate duration of such interruption.

VAMC, Providence, Rhode Island  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** 3. Contractor will be advised (in writing) of approval of request, or of denial, prior to the start of work. If the Contractor provides an interruption will cause least

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI  
**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications, as the VA determines that the interruption is of a minor nature and will not cause inconvenience to hospital activities.  
**CAT I \$2,000 - \$1,000,000**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days  
 If the Medical Center determines that the requested interruption is of a minor nature and will not cause inconvenience to hospital activities, the Medical Center may allow the interruption to proceed

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am in less than 15 calendar days after receipt of the contractor's request for interruption

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RH8000-1 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare and Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

ducts, pipes and the like, and their hangers or supports, which are to be abandoned but are not required to be entirely removed, shall be sealed, capped or plugged. The lines shall not be capped in finished areas, but shall be removed and sealed, capped or plugged in ceilings, within furred spaces, in unfinished areas, or within walls or partitions; so that they are completely behind the finished surfaces.

J. To minimize interference of construction activities with flow of Medical Center traffic, comply with the following:

1. Keep roads, walks and entrances to grounds, to parking and to occupied areas of buildings clear of construction materials, debris and standing construction equipment and vehicles.

K. Coordinate the work for this contract with other construction operations as directed by Project Manager. This includes the scheduling of traffic and the use of roadways, as specified in Article, USE OF ROADWAYS.

### 1.7 ALTERATIONS

A. Survey: Before any work is started, the Contractor shall make a thorough survey with the Project Manager of areas of buildings in which alterations occur and areas which are anticipated routes of access, and

VAMC, Providence, Rhode Island  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** furnish a report, signed by both, to the Contracting Officer. This

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** 1. Existing condition and types of resilient flooring, doors, windows, walls and other surfaces not required to be altered throughout necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

**CAT I \$2,000 - \$1,000,000** 2. Shall note any discrepancies between drawings and existing conditions at site.

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000.

**PERFORMANCE PERIOD:** 365 Calendar Days  
 of access to areas within buildings where alterations occur and which have been agreed upon by Contractor and Project Manager.

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award. Impractical, shall be furnished and/or replaced by Contractor with new

**WAGE DETERMINATION:** Currently, General Decision Number RPH0001 Modification No 5 dated 05/17/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a REPORT OF ACCIDENT (VA Form 2362 or Equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer. and "CHANGES" (FAR 52.243-4 and VAAR 832.236-66).

**PROPOSAL DUE DATE:** All offers are due with proposal for MAPOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offer ineligible for a basic contract award. Basis for award is in the RFP.

re-survey of the areas of buildings involved. They shall furnish a report on conditions then existing, of resilient flooring, doors, windows, walls and other surfaces as compared with conditions of same as noted in first condition survey report:

1. Re-survey report shall also list any damage caused by Contractor to such flooring and other surfaces, despite protection measures; and, will form basis for determining extent of repair work required of Contractor to restore damage caused by Contractor's workmen in executing work of this contract.

D. Protection: Provide the following protective measures:

1. Wherever existing roof surfaces are disturbed they shall be protected against water infiltration. In case of leaks, they shall be repaired immediately upon discovery.
2. Temporary protection against damage for portions of existing structures and grounds where work is to be done, materials handled and equipment moved and/or relocated.
3. Protection of interior of existing structures at all times, from damage, dust and weather inclemency. Wherever work is performed, floor surfaces that are to remain in place shall be adequately

VAMC, Providence, Rhode Island  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** protected prior to starting work, and this protection shall be

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

A. Implement the requirements of VAMC's Infection Control Risk Assessment (ICRA) team. ICRA Group may monitor dust in the vicinity of the construction work and require the Contractor to take corrective action

**CAT I \$2,000 - \$1,000,000**  
**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

B. Establish and maintain a dust control program as part of the contractor's infection preventive measures in accordance with the

**PERFORMANCE PERIOD:** 365 Calendar Days  
**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am

work, prepare a plan detailing project-specific dust protection measures, including periodic status reports and submit to Project Management Office for review and approval. Prior to start of work, prepare a plan detailing project-specific dust protection measures, including periodic status reports and submit to Project Management Office for review and approval. Contractors are reminded that any amount awarded over \$55,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RII80001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

1. All personnel involved in the construction or renovation activity shall be educated and trained in infection prevention measures. **PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

C. Medical center Infection Control personnel shall monitor for airborne disease (e.g. aspergillus) as appropriate during construction. **PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

baseline of conditions may be established by the medical center prior to the start of work and periodically during the construction stage to determine impact of construction activities on indoor air quality. In addition:

1. The Project Manager and VAMC Infection Control personnel will review pressure differential monitoring documentation to verify that pressure differentials in the construction zone and in the patient-care rooms are appropriate for their settings. The requirement for negative air pressure in the construction zone shall depend on the location and type of activity. Upon notification, the contractor shall implement corrective measures to restore proper pressure differentials as needed.
2. In case of any problem, the medical center, along with assistance from the contractor, shall conduct an environmental assessment to find and eliminate the source.

D. In general, following preventive measures shall be adopted during construction to keep down dust and prevent mold.

1. Dampen debris to keep down dust and provide temporary construction partitions in existing structures where directed by Resident

VAMC, Providence, Rhode Island  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** Engineer. Blank off ducts and diffusers to prevent circulation of

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI.

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

will remain jointly occupied by the medical Center and Contractor's workers, the Contractor shall:

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000  
 Provide dust proof, one-hour fire-rated temporary drywall construction barriers to completely separate construction from the operational areas of the hospital in order to contain dirt debris

**PERFORMANCE PERIOD:** 365 Calendar Days

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 1:00pm.

hospital occupied side. Install a self-closing rated door in a metal frame commensurate with the partition. To allow worker

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$55,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award. A fire retardant polystyrene, 6-mil thick or greater plastic barrier meeting local

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offer ineligible for a basic contract award. Basis for award is in the RFP.

- intake vents, or building openings. Install HEPA (High Efficiency Particulate Accumulator) filter vacuum system rated at 95% capture of 0.3 microns including pollen, mold spores and dust particles. Insure continuous negative air pressures occurring within the work area. HEPA filters should have ASHRAE 85 or other pre-filter to extend the useful life of the HEPA. Provide both primary and secondary filtrations units. Exhaust hoses shall be heavy duty, flexible steel reinforced and exhausted so that dust is not reintroduced to the medical center.
- c. Adhesive Walk-off/Carpet Walk-off Mats, minimum 600mm x 900mm (24" x 36"), shall be used at all interior transitions from the construction area to occupied medical center area. These mats shall be changed as often as required to maintain clean work areas directly outside construction area at all times.
- d. Vacuum and wet mop all transition areas from construction to the occupied medical center at the end of each workday. Vacuum shall utilize HEPA filtration. Maintain surrounding area frequently. Remove debris as they are created. Transport these outside the construction area in containers with tightly fitting lids.

Page 30 of 248

VAMC, Providence, Rhode Island  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:**

2. Items not reserved shall become property of the Contractor and be

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

3. Items of portable equipment and furnishings located in rooms and spaces in which work is to be done under this contract shall remain necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

When rooms and spaces are vacated by the Department of Veterans Affairs during the alteration period, such items which are NOT required by drawings and specifications to be

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000  
 either relocated or reused, will be removed by the Government in

advance of work to avoid interfering with Contractor's operation.  
**PERFORMANCE PERIOD:** 365 Calendar Days

**1.10 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND SITE IMPROVEMENTS** for this project will be held on 5/24/18 at 11:00am.

A. The Contractor shall preserve and protect all structures, equipment, and vegetation and such shrubs and grasses and or adjacent to the work. **PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

utilities at or near the work site and on adjacent property of a third party, the locations of which are made known to or should be known by the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract. **PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the Contracting Officer may have the necessary work performed and charge the cost to the Contractor.

**1.11 RESTORATION**

- A. Remove, cut, alter, replace, patch and repair existing work as necessary to install new work. Except as otherwise shown or specified, do not cut, alter or remove any structural work, and do not disturb any ducts, plumbing, steam, gas, or electric work without approval of the Resident Engineer. Existing work to be altered or extended and that is found to be defective in any way, shall be reported to the Resident Engineer before it is disturbed. Materials and workmanship used in restoring work shall conform in type and quality to that of original existing construction, except as otherwise shown or specified.
- B. Upon completion of contract, deliver work complete and undamaged. Existing work (walls, ceilings, partitions, floors, mechanical and electrical work, lawns, paving, roads, walks, etc.) disturbed or removed as a result of performing required new work, shall be patched, repaired,

EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VAMC, Providence, Rhode Island  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** reinstalled, or replaced with new work, and refinished and left in as

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications. cables, etc., of utility services or of fire

**CAT I \$2,000 - \$1,000,000** protection systems and communications systems (including telephone)

which are indicated on drawings and which are not scheduled for

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days

or locations of which are unknown will be covered by adjustment to

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

### 1.12 AS-BUILT DRAWINGS

**WAGE DETERMINATION:** Currently, General Decision Number FRI1800012 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representatives (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

drawings to the Resident Engineer within 15 calendar days after each completed phase and after the acceptance of the project by the Resident Engineer.

D. Paragraphs A, B, & C shall also apply to all shop drawings.

### 1.13 USE OF ROADWAYS

A. For hauling, use only established public roads and roads on Medical Center property.

### 1.14 TEMPORARY USE OF MECHANICAL AND ELECTRICAL EQUIPMENT

A. Use of new installed mechanical and electrical equipment to provide heat, ventilation, plumbing, light and power will be permitted subject to compliance with the following provisions:

1. Permission to use each unit or system must be given by Project Manager. If the equipment is not installed and maintained in accordance with the following provisions, the Project Manager will withdraw permission for use of the equipment.
2. Electrical installations used by the equipment shall be completed in accordance with the drawings and specifications to prevent damage to



VAMC, Providence, Rhode Island  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** the equipment and the electrical systems, i.e. transformers, relays, circuit breakers, fuses, conductors, motor controllers and their overload elements shall be properly sized, coordinated and adjusted.

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications. The Contractor shall determine that motors are not overloaded.

**CAT I \$2,000 - \$1,000,000** The electrical equipment shall be thoroughly cleaned before using it and again immediately before final inspection including vacuum cleaning and wiping clean interior and exterior surfaces.

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days  
 3. Units shall be properly lubricated, balanced, and aligned. Vibrations must be eliminated.

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number RI180001 Modification No 5 dated 05/17/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

- A. Equipment, service shall be cleared prior to use, maintained to standard, and inspected prior to acceptance by the Government.
- B. Prior to final inspection, the equipment or parts used which show wear and tear beyond normal, shall be replaced with identical replacements, at no additional cost to the Government.
- C. This paragraph shall not reduce the requirements of the mechanical and electrical specifications sections.

#### 1.15 TEMPORARY USE OF EXISTING ELEVATORS

- A. Use of existing elevators for handling building materials and Contractor's personnel will be permitted subject to following provisions:
  1. Contractor makes all arrangements with the Project Manager for use of elevators. The Project Manager will ascertain that elevators are in proper condition. Contractor may use elevator No. 1 in Building No. 1 for daily use.
  2. Contractor covers and provides maximum protection of following elevator components:
    - a. Entrance jambs, heads soffits and threshold plates.

EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VAMC, Providence, Rhode Island  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:**

b. Entrance columns, canopy, return panels and inside surfaces of car

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

c. Finish flooring.  
**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications. service of Contractor as approved by

Contracting Officer.  
**CAT I \$2,000 - \$1,000,000**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days  
 A. Contractor may have for use of Contractor's workmen, such toilet accommodations as may be assigned to Contractor by Medical Center.

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.  
 Contractor shall keep such places clean and be responsible for any

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.  
 satisfactory condition in which the Contractor will be deprived of the privilege to use such toilets.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offer of ineligible for a basic contract award. Basis for award is in the RFP.  
 chargeable electrical services shall be the prevailing rates charged to the Government. The Contractor shall be responsible for providing the basis for award is in the RFP.  
 furnished without charge.

- B. The Contractor, at Contractor's expense and in a workmanlike manner satisfactory to the Contracting Officer, shall install and maintain all necessary temporary connections and distribution lines, and all meters required to measure the amount of electricity used for the purpose of determining charges. Before final acceptance of the work by the Government, the Contractor shall remove all the temporary connections, distribution lines, meters, and associated paraphernalia.
- C. Contractor shall install meters at Contractor's expense and furnish the Medical Center a monthly record of the Contractor's usage of electricity as hereinafter specified.
- D. Heat: Furnish temporary heat necessary to prevent injury to work and materials through dampness and cold. Use of open salamanders or any temporary heating devices which may be fire hazards or may smoke and damage finished work, will not be permitted. Maintain minimum temperatures as specified for various materials:
  1. Obtain heat by connecting to Medical Center heating distribution system.
    - a. Steam is available at no cost to Contractor.

VAMC, Providence, Rhode Island  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:**

**PROJECT TITLE AND NO.:** E. Electricity (for Construction and Testing): Furnish all temporary electric services. Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications. Obtain electricity by connecting to the medical center's electrical distribution system. The Contractor shall meter and pay for

**CAT I \$2,000 - \$1,000,900**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000  
 providing temporary heat. Electricity for all other uses is available at no cost to the Contractor.

**PERFORMANCE PERIOD:** 365 Calendar Days

**F. Water (for Construction and Testing):** Furnish temporary water service.

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 1:00 PM. Obtain water by connecting to the Medical Center water distribution

system. Provide reduced pressure backflow preventer at each connection. Water is available at no cost to the Contractor.  
**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due, no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

water from Medical Center's system.  
**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**1.18 TESTS**  
 A. Pre-test mechanical and electrical equipment and systems and make corrections required for proper operation of such systems before  
**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.  
 requesting final tests. Final test will not be conducted unless pre-tested.

- B. Conduct final tests required in various sections of specifications in presence of an authorized representative of the Contracting Officer. Contractor shall furnish all labor, materials, equipment, instruments, and forms, to conduct and record such tests.
- C. Mechanical and electrical systems shall be balanced, controlled and coordinated. A system is defined as the entire complex which must be coordinated to work together during normal operation to produce results for which the system is designed. For example, air conditioning supply air is only one part of entire system which provides comfort conditions for a building. Other related components are return air, exhaust air, steam, chilled water, refrigerant, hot water, controls and electricity, etc. Another example of a complex which involves several components of different disciplines is a boiler installation. Efficient and acceptable boiler operation depends upon the coordination and proper operation of fuel, combustion air, controls, steam, feed water, condensate and other related components.
- D. All related components as defined above shall be functioning when any system component is tested. Tests shall be completed within a reasonably

VAMC Providence Replace Fire Doors  
 EXHIBIT F-1 SEED PROJECT  
 Providence, Rhode Island  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** short period of time during which operating and environmental conditions

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** E. Individual test result of any component, where required, will only be accepted when submitted with the test results of related components and necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

**CAT I \$2,000 - \$1,000,000**  
**1.19 INSTRUCTIONS**

A. Contractor shall furnish Maintenance and Operating manuals and verbal instructions when required by the various sections of the specifications

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000  
**PERFORMANCE PERIOD:** 365 Calendar Days

B. Manuals: Maintenance and operating manuals (four copies each) for each  
**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number RH8001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer. Illustrations shall include "exploded" views showing and identifying

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

accessory and control shall be clearly and thoroughly explained. All necessary precautions for the operation of the equipment and the reason for each precaution shall be clearly set forth. Manuals must reference the exact model, style and size of the piece of equipment and system being furnished. Manuals referencing equipment similar to but of a different model, style, and size than that furnished will not be accepted.

- C. Instructions: Contractor shall provide qualified, factory trained manufacturers' representatives to give detailed instructions to assigned Department of Veterans Affairs personnel in the operation and complete maintenance for each piece of equipment. All such training will be at the job site. These requirements are more specifically detailed in the various technical sections. Instructions for different items of equipment that are component parts of a complete system shall be given in an integrated, progressive manner. All instructors for every piece of component equipment in a system shall be available until instructions for all items included in the system have been completed. This is to assure proper instruction in the operation of inter-related systems. All instruction periods shall be at such times as scheduled by the Resident

VAMC, Providence, Replace Fire Doors  
 EXHIBIT F-1 SEED PROJECT  
 NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
 Providence, Rhode Island  
 VA Project No. 650-16-011

11-01-15  
 January 13, 2017  
 Issued for Construction

**Date:** Engineer and shall be considered concluded only when the Resident  
**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI  
**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications. demonstrate sufficient qualifications in accordance with requirements for instructors above.  
**CAT I \$2,000 - \$1,000,000**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days  
 A. Where the Contractor or any of the Contractor's employees, prior to, or during the construction work, are advised of or discover any possible

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

EXHIBIT F-1 SEED PROJECT  
VAMC, Providence, Rhode Island  
NOTICE OF PROPOSED PROJECT, PROPOSAL FORM  
VA Project No. 650-16-011

11-01-15  
January 13, 2017  
Issued for Construction

**Date:**

**PROJECT TITLE AND NO.:** Project 650-16-011, Fire Door Repair, Providence, RI

**PROJECT DESCRIPTION:** The Contractor shall provide all labor, materials, equipment, transportation, disposal and supervision necessary to repair or replace double doors and fire door assemblies on seven floors of E-Wing and to inspect and certify the doors as fully operational fire doors meeting NFPA specifications.

**CAT I \$2,000 - \$1,000,000**

**MAGNITUDE OF PROJECT:** Between \$100,000 and \$250,000

**PERFORMANCE PERIOD:** 365 Calendar Days

**SITE VISIT:** A site visit for this project will be held on 5/24/18 at 11:00am.

**PERFORMANCE & PAYMENT BONDS:** In accordance with FAR 28.102-1 and Contract Clause 52.228-15, Contractors are reminded that any amount awarded over \$35,000 shall require Payment Bonds, and awards exceeding \$150,000 shall require both Payment and Performance Bonds. All bonds are due no later than 10 days after award.

**WAGE DETERMINATION:** Currently, General Decision Number: RI180001 Modification No 5 dated 05/11/2018 is applicable to this task order. However, the current prevailing Wage Determination will be incorporated at time of award.

**PROJECT SAFETY:** In accordance with FAR 52.236-13, Accident Prevention, construction contractors shall immediately notify the Contracting Officer's Representative (COR) and shall prepare a Report of Accident (VA Form 2162 or equivalent) in quadruplicate and forward the original and two copies to the Contracting Officer or COR for forwarding to Safety Officer.

**PROPOSAL DUE DATE:** All offers are due with proposal for MATOC basic contract. Failure to provide a price will make offer noncompliant, eliminated from the competition and offeror ineligible for a basic contract award. Basis for award is in the RFP.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

**SECTION 01 32 16.15**  
**PROJECT SCHEDULES**  
*(SMALL PROJECTS - DESIGN/BID/BUILD)*

**PART 1- GENERAL**

**1.1 DESCRIPTION:**

- A. The Contractor shall develop a Critical Path Method (CPM) plan and schedule demonstrating fulfillment of the contract requirements (Project Schedule), and shall keep the Project Schedule up-to-date in accordance with the requirements of this section and shall utilize the plan for scheduling, coordinating and monitoring work under this contract (including all activities of subcontractors, equipment vendors and suppliers). Conventional Critical Path Method (CPM) technique shall be utilized to satisfy both time and cost applications.

**1.2 CONTRACTOR'S REPRESENTATIVE:**

- A. The Contractor shall designate an authorized representative responsible for the Project Schedule including preparation, review and progress reporting with and to the Contracting Officer's Representative (COTR).
- B. The Contractor's representative shall have direct project control and complete authority to act on behalf of the Contractor in fulfilling the requirements of this specification section.
- C. The Contractor's representative shall have the option of developing the project schedule within their organization or to engage the services of an outside consultant. If an outside scheduling consultant is utilized, Section 1.3 of this specification will apply.

**1.3 CONTRACTOR'S CONSULTANT:**

- A. The Contractor shall submit a qualification proposal to the COTR, within 10 days of bid acceptance. The qualification proposal shall include:
1. The name and address of the proposed consultant.
  2. Information to show that the proposed consultant has the qualifications to meet the requirements specified in the preceding paragraph.
  3. A representative sample of prior construction projects, which the proposed consultant has performed complete project scheduling services. These representative samples shall be of similar size and scope.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

- B. The Contracting Officer has the right to approve or disapprove the proposed consultant, and will notify the Contractor of the VA decision within seven calendar days from receipt of the qualification proposal. In case of disapproval, the Contractor shall resubmit another consultant within 10 calendar days for renewed consideration. The Contractor shall have their scheduling consultant approved prior to submitting any schedule for approval.

#### **1.4 COMPUTER PRODUCED SCHEDULES**

- A. The contractor shall provide monthly, to the Department of Veterans Affairs (VA), all computer-produced time/cost schedules and reports generated from monthly project updates. This monthly computer service will include: three copies of up to five different reports (inclusive of all pages) available within the user defined reports of the scheduling software approved by the Contracting Officer; a hard copy listing of all project schedule changes, and associated data, made at the update and an electronic file of this data; and the resulting monthly updated schedule in PDM format. These must be submitted with and substantively support the contractor's monthly payment request and the signed look ahead report. The COTR shall identify the five different report formats that the contractor shall provide.
- B. The contractor shall be responsible for the correctness and timeliness of the computer-produced reports. The Contractor shall also responsible for the accurate and timely submittal of the updated project schedule and all CPM data necessary to produce the computer reports and payment request that is specified.
- C. The VA will report errors in computer-produced reports to the Contractor's representative within ten calendar days from receipt of reports. The Contractor shall reprocess the computer-produced reports and associated diskette(s), when requested by the Contracting Officer's representative, to correct errors which affect the payment and schedule for the project.

#### **1.5 THE COMPLETE PROJECT SCHEDULE SUBMITTAL**

- A. Within 45 calendar days after receipt of Notice to Proceed, the Contractor shall submit for the Contracting Officer's review; three blue line copies of the interim schedule on sheets of paper 765 x 1070 mm (30 x 42 inches) and an electronic file in the previously approved CPM schedule program. The submittal shall also include three copies of



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

a computer-produced activity/event ID schedule showing project duration; phase completion dates; and other data, including event cost. Each activity/event on the computer-produced schedule shall contain as a minimum, but not limited to, activity/event ID, activity/event description, duration, budget amount, early start date, early finish date, late start date, late finish date and total float. Work activity/event relationships shall be restricted to finish-to-start or start-to-start without lead or lag constraints. Activity/event date constraints, not required by the contract, will not be accepted unless submitted to and approved by the Contracting Officer. The contractor shall make a separate written detailed request to the Contracting Officer identifying these date constraints and secure the Contracting Officer's written approval before incorporating them into the network diagram. The Contracting Officer's separate approval of the Project Schedule shall not excuse the contractor of this requirement. Logic events (non-work) will be permitted where necessary to reflect proper logic among work events, but must have zero duration. The complete working schedule shall reflect the Contractor's approach to scheduling the complete project. **The final Project Schedule in its original form shall contain no contract changes or delays which may have been incurred during the final network diagram development period and shall reflect the entire contract duration as defined in the bid documents.** These changes/delays shall be entered at the first update after the final Project Schedule has been approved. The Contractor should provide their requests for time and supporting time extension analysis for contract time as a result of contract changes/delays, after this update, and in accordance with Article, ADJUSTMENT OF CONTRACT COMPLETION.

- D. Within 30 calendar days after receipt of the complete project interim Project Schedule and the complete final Project Schedule, the Contracting Officer or his representative, will do one or both of the following:
1. Notify the Contractor concerning his actions, opinions, and objections.
  2. A meeting with the Contractor at or near the job site for joint review, correction or adjustment of the proposed plan will be scheduled if required. Within 14 calendar days after the joint

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

review, the Contractor shall revise and shall submit three blue line copies of the revised Project Schedule, three copies of the revised computer-produced activity/event ID schedule and a revised electronic file as specified by the Contracting Officer. The revised submission will be reviewed by the Contracting Officer and, if found to be as previously agreed upon, will be approved.

- E. The approved baseline schedule and the computer-produced schedule(s) generated there from shall constitute the approved baseline schedule until subsequently revised in accordance with the requirements of this section.

F.

#### **1.6 WORK ACTIVITY/EVENT COST DATA**

- A. The Contractor shall cost load all work activities/events except procurement activities. The cumulative amount of all cost loaded work activities/events (including alternates) shall equal the total contract price. Prorate overhead, profit and general conditions on all work activities/events for the entire project length. The contractor shall generate from this information cash flow curves indicating graphically the total percentage of work activity/event dollar value scheduled to be in place on early finish, late finish. These cash flow curves will be used by the Contracting Officer to assist him in determining approval or disapproval of the cost loading. Negative work activity/event cost data will not be acceptable, except on VA issued contract changes.
- B. C. In accordance with FAR 52.236 - 1 (PERFORMANCE OF WORK BY THE CONTRACTOR) and VAAR 852.236 - 72 (PERFORMANCE OF WORK BY THE CONTRACTOR), the Contractor shall submit, simultaneously with the cost per work activity/event of the construction schedule required by this Section, a responsibility code for all activities/events of the project for which the Contractor's forces will perform the work.

D.

#### **1.7 PROJECT SCHEDULE REQUIREMENTS**

- A. Show on the project schedule the sequence of work activities/events required for complete performance of all items of work. The Contractor Shall:
1. Show activities/events as:

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

- a. Contractor's time required for submittal of shop drawings, templates, fabrication, delivery and similar pre-construction work.
  - b. Contracting Officer's and Architect-Engineer's review and approval of shop drawings, equipment schedules, samples, template, or similar items.
  - c. Interruption of VA Facilities utilities, delivery of Government furnished equipment, and rough-in drawings, project phasing and any other specification requirements.
  - d. Test, balance and adjust various systems and pieces of equipment, maintenance and operation manuals, instructions and preventive maintenance tasks.
  - e. VA inspection and acceptance activity/event with a minimum duration of five work days at the end of each phase and immediately preceding any VA move activity/event required by the contract phasing for that phase.
2. Show not only the activities/events for actual construction work for each trade category of the project, but also trade relationships to indicate the movement of trades from one area, floor, or building, to another area, floor, or building, for at least five trades who are performing major work under this contract.
  3. Break up the work into activities/events of a duration no longer than 20 work days each or one reporting period, except as to non-construction activities/events (i.e., procurement of materials, delivery of equipment, concrete and asphalt curing) and any other activities/events for which the COTR may approve the showing of a longer duration. The duration for VA approval of any required submittal, shop drawing, or other submittals will not be less than 20 work days.
  4. Describe work activities/events clearly, so the work is readily identifiable for assessment of completion. Activities/events labeled "start," "continue," or "completion," are not specific and will not be allowed. Lead and lag time activities will not be acceptable.
  5. The schedule shall be generally numbered in such a way to reflect either discipline, phase or location of the work.
- B. The Contractor shall submit the following supporting data in addition to the project schedule:

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

1. The appropriate project calendar including working days and holidays.
2. The planned number of shifts per day.
3. The number of hours per shift.

Failure of the Contractor to include this data shall delay the review of the submittal until the Contracting Officer is in receipt of the missing data.

- C. To the extent that the Project Schedule or any revised Project Schedule shows anything not jointly agreed upon, it shall not be deemed to have been approved by the COTR. Failure to include any element of work required for the performance of this contract shall not excuse the Contractor from completing all work required within any applicable completion date of each phase regardless of the COTR's approval of the Project Schedule.
- D. Compact Disk Requirements and CPM Activity/Event Record Specifications: Submit to the VA an electronic file(s) containing one file of the data required to produce a schedule, reflecting all the activities/events of the complete project schedule being submitted.

#### **1.8 PAYMENT TO THE CONTRACTOR:**

- A. Monthly, the contractor shall submit an application and certificate for payment using VA Form 10-6001a or the AIA application and certificate for payment documents G702 & G703 reflecting updated schedule activities and cost data in accordance with the provisions of the following Article, PAYMENT AND PROGRESS REPORTING, as the basis upon which progress payments will be made pursuant to Article, FAR 52.232 - 5 (PAYMENT UNDER FIXED-PRICE CONSTRUCTION CONTRACTS) and VAAR 852.236 - 83 (PAYMENT UNDER FIXED-PRICE CONSTRUCTION CONTRACTS). The Contractor shall be entitled to a monthly progress payment upon approval of estimates as determined from the currently approved updated project schedule. Monthly payment requests shall include: a listing of all agreed upon project schedule changes and associated data; and an electronic file (s) of the resulting monthly updated schedule.
- B. Approval of the Contractor's monthly Application for Payment shall be contingent, among other factors, on the submittal of a satisfactory monthly update of the project schedule.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

### 1.9 PAYMENT AND PROGRESS REPORTING

- A. Monthly schedule update meetings will be held on dates mutually agreed to by the COTR and the Contractor. Contractor and their CPM consultant (if applicable) shall attend all monthly schedule update meetings. The Contractor shall accurately update the Project Schedule and all other data required and provide this information to the COTR three work days in advance of the schedule update meeting. Job progress will be reviewed to verify:
1. Actual start and/or finish dates for updated/completed activities/events.
  2. Remaining duration for each activity/event started, or scheduled to start, but not completed.
  3. Logic, time and cost data for change orders, and supplemental agreements that are to be incorporated into the Project Schedule.
  4. Changes in activity/event sequence and/or duration which have been made, pursuant to the provisions of following Article, ADJUSTMENT OF CONTRACT COMPLETION.
  5. Completion percentage for all completed and partially completed activities/events.
  6. Logic and duration revisions required by this section of the specifications.
  7. Activity/event duration and percent complete shall be updated independently.
- B. After completion of the joint review, the contractor shall generate an updated computer-produced calendar-dated schedule and supply the Contracting Officer's representative with reports in accordance with the Article, COMPUTER PRODUCED SCHEDULES, specified.
- C. After completing the monthly schedule update, the contractor's representative or scheduling consultant shall rerun all current period contract change(s) against the prior approved monthly project schedule. The analysis shall only include original workday durations and schedule logic agreed upon by the contractor and resident engineer for the contract change(s). When there is a disagreement on logic and/or durations, the Contractor shall use the schedule logic and/or durations provided and approved by the resident engineer. After each rerun update, the resulting electronic project schedule data file shall be appropriately identified and submitted to the VA in accordance to the

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

requirements listed in articles 1.4 and 1.7. This electronic submission is separate from the regular monthly project schedule update requirements and shall be submitted to the resident engineer within fourteen (14) calendar days of completing the regular schedule update. **Before inserting the contract changes durations, care must be taken to ensure that only the original durations will be used for the analysis, not the reported durations after progress. In addition, once the final network diagram is approved, the contractor must recreate all manual progress payment updates on this approved network diagram and associated reruns for contract changes in each of these update periods as outlined above for regular update periods. This will require detailed record keeping for each of the manual progress payment updates.**

- D. Following approval of the CPM schedule, the VA, the General Contractor, its approved CPM Consultant, RE office representatives, and all subcontractors needed, as determined by the SRE, shall meet to discuss the monthly updated schedule. The main emphasis shall be to address work activities to avoid slippage of project schedule and to identify any necessary actions required to maintain project schedule during the reporting period. The Government representatives and the Contractor should conclude the meeting with a clear understanding of those work and administrative actions necessary to maintain project schedule status during the reporting period. This schedule coordination meeting will occur after each monthly project schedule update meeting utilizing the resulting schedule reports from that schedule update. If the project is behind schedule, discussions should include ways to prevent further slippage as well as ways to improve the project schedule status, when appropriate.

#### **1.10 RESPONSIBILITY FOR COMPLETION**

- A. If it becomes apparent from the current revised monthly progress schedule that phasing or contract completion dates will not be met, the Contractor shall execute some or all of the following remedial actions:
1. Increase construction manpower in such quantities and crafts as necessary to eliminate the backlog of work.
  2. Increase the number of working hours per shift, shifts per working day, working days per week, the amount of construction equipment, or any combination of the foregoing to eliminate the backlog of work.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

3. Reschedule the work in conformance with the specification requirements.

B. Prior to proceeding with any of the above actions, the Contractor shall notify and obtain approval from the COTR for the proposed schedule changes. If such actions are approved, the representative schedule revisions shall be incorporated by the Contractor into the Project Schedule before the next update, at no additional cost to the Government.

#### **1.11 CHANGES TO THE SCHEDULE**

A. Within 30 calendar days after VA acceptance and approval of any updated project schedule, the Contractor shall submit a revised electronic file (s) and a list of any activity/event changes including predecessors and successors for any of the following reasons:

1. Delay in completion of any activity/event or group of activities/events, which may be involved with contract changes, strikes, unusual weather, and other delays will not relieve the Contractor from the requirements specified unless the conditions are shown on the CPM as the direct cause for delaying the project beyond the acceptable limits.
2. Delays in submittals, or deliveries, or work stoppage are encountered which make rescheduling of the work necessary.
3. The schedule does not represent the actual prosecution and progress of the project.
4. When there is, or has been, a substantial revision to the activity/event costs regardless of the cause for these revisions.

B. CPM revisions made under this paragraph which affect the previously approved computer-produced schedules for Government furnished equipment, vacating of areas by the VA Facility, contract phase(s) and sub phase(s), utilities furnished by the Government to the Contractor, or any other previously contracted item, shall be furnished in writing to the Contracting Officer for approval.

C. Contracting Officer's approval for the revised project schedule and all relevant data is contingent upon compliance with all other paragraphs of this section and any other previous agreements by the Contracting Officer or the VA representative.

D. The cost of revisions to the project schedule resulting from contract changes will be included in the proposal for changes in work as

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

specified in FAR 52.243 - 4 (Changes) and VAAR 852.236 - 88 (Changes - Supplemental), and will be based on the complexity of the revision or contract change, man hours expended in analyzing the change, and the total cost of the change.

- E. The cost of revisions to the Project Schedule not resulting from contract changes is the responsibility of the Contractor.

#### **1.12 ADJUSTMENT OF CONTRACT COMPLETION**

- A. The contract completion time will be adjusted only for causes specified in this contract. Request for an extension of the contract completion date by the Contractor shall be supported with a justification, CPM data and supporting evidence as the COTR may deem necessary for determination as to whether or not the Contractor is entitled to an extension of time under the provisions of the contract. Submission of proof based on revised activity/event logic, durations (in work days) and costs is obligatory to any approvals. The schedule must clearly display that the Contractor has used, in full, all the float time available for the work involved in this request. The Contracting Officer's determination as to the total number of days of contract extension will be based upon the current computer-produced calendar-dated schedule for the time period in question and all other relevant information.
- B. Actual delays in activities/events which, according to the computer-produced calendar-dated schedule, do not affect the extended and predicted contract completion dates shown by the critical path in the network, will not be the basis for a change to the contract completion date. The Contracting Officer will within a reasonable time after receipt of such justification and supporting evidence, review the facts and advise the Contractor in writing of the Contracting Officer's decision.
- C. The Contractor shall submit each request for a change in the contract completion date to the Contracting Officer in accordance with the provisions specified under FAR 52.243 - 4 (Changes) and VAAR 852.236 - 88 (Changes - Supplemental). The Contractor shall include, as a part of each change order proposal, a sketch showing all CPM logic revisions, duration (in work days) changes, and cost changes, for work in question and its relationship to other activities on the approved network diagram.



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

D. All delays due to non-work activities/events such as RFI's, WEATHER,  
STRIKES, and similar non-work activities/events shall be analyzed on a  
month by month basis.

- - - E N D - - -

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

04-01-13  
January 13, 2016  
Issued for Construction

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

07-01-15  
January 13, 2017  
Issued for Construction

**SECTION 01 33 23**  
**SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES**

- 1.1. Refer to Articles titled SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (FAR 52.236-21) and, SPECIAL NOTES (VAAR 852.236-91), in GENERAL CONDITIONS.
- 1.2. For the purposes of this contract, samples, test reports, certificates, and manufacturers' literature and data shall also be subject to the previously referenced requirements. The following text refers to all items collectively as SUBMITTALS.
- 1.3. Submit for approval, all of the items specifically mentioned under the separate sections of the specification, with information sufficient to evidence full compliance with contract requirements. Materials, fabricated articles and the like to be installed in permanent work shall equal those of approved submittals. After an item has been approved, no change in brand or make will be permitted unless:
  - A. Satisfactory written evidence is presented to, and approved by Contracting Officer, that manufacturer cannot make scheduled delivery of approved item or;
  - B. Item delivered has been rejected and substitution of a suitable item is an urgent necessity or;
  - C. Other conditions become apparent which indicates approval of such substitute item to be in best interest of the Government.
- 1.4. Forward submittals in sufficient time to permit proper consideration and approval action by Government. Time submission to assure adequate lead time for procurement of contract - required items. Delays attributable to untimely and rejected submittals will not serve as a basis for extending contract time for completion.
- 1.5. Submittals will be reviewed for compliance with contract requirements by Architect-Engineer, and action thereon will be taken by Resident Engineer on behalf of the Contracting Officer.
- 1.6. Upon receipt of submittals, Architect-Engineer will assign a file number thereto. Contractor, in any subsequent correspondence, shall refer to this file and identification number to expedite replies relative to previously approved or disapproved submittals.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

07-01-15  
January 13, 2017  
Issued for Construction

- 1.7. The Government reserves the right to require additional submittals, whether or not particularly mentioned in this contract. If additional submittals beyond those required by the contract are furnished pursuant to request therefor by Contracting Officer, adjustment in contract price and time will be made in accordance with Articles titled CHANGES (FAR 52.243-4) and CHANGES - SUPPLEMENT (VAAR 852.236-88) of the GENERAL CONDITIONS.
- 1.8. Schedules called for in specifications and shown on shop drawings shall be submitted for use and information of Department of Veterans Affairs and Architect-Engineer. However, the Contractor shall assume responsibility for coordinating and verifying schedules. The Contracting Officer and Architect- Engineer assumes no responsibility for checking schedules or layout drawings for exact sizes, exact numbers and detailed positioning of items.
- 1.9. Submittals must be submitted by Contractor only and shipped prepaid. Contracting Officer assumes no responsibility for checking quantities or exact numbers included in such submittals.
  - A. Submit samples required by Section 09 06 00, SCHEDULE FOR FINISHES, samples in single units unless otherwise specified. Submit shop drawings, schedules, manufacturers' literature and data, and certificates in quadruplicate, except where a greater number is specified.
  - B. Submittals will receive consideration only when covered by a transmittal letter signed by Contractor. Letter shall be sent via first class mail and shall contain the list of items, name of Medical Center, name of Contractor, contract number, applicable specification paragraph numbers, applicable drawing numbers (and other information required for exact identification of location for each item), manufacturer and brand, ASTM or Federal Specification Number (if any) and such additional information as may be required by specifications for particular item being furnished. In addition, catalogs shall be marked to indicate specific items submitted for approval.
    1. A copy of letter must be enclosed with items, and any items received without identification letter will be considered "unclaimed goods" and held for a limited time only.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

07-01-15  
January 13, 2017  
Issued for Construction

2. Each sample, certificate, manufacturers' literature and data shall be labeled to indicate the name and location of the Medical Center, name of Contractor, manufacturer, brand, contract number and ASTM or Federal Specification Number as applicable and location(s) on project.
  3. Required certificates shall be signed by an authorized representative of manufacturer or supplier of material, and by Contractor.
- C. If submittal samples have been disapproved, resubmit new samples as soon as possible after notification of disapproval. Such new samples shall be marked "Resubmitted Sample" in addition to containing other previously specified information required on label and in transmittal letter.
- D. Approved samples will be kept on file by the Resident Engineer at the site until completion of contract, at which time such samples will be delivered to Contractor as Contractor's property. Where noted in technical sections of specifications, approved samples in good condition may be used in their proper locations in contract work. At completion of contract, samples that are not approved will be returned to Contractor only upon request and at Contractor's expense. Such request should be made prior to completion of the contract. Disapproved samples that are not requested for return by Contractor will be discarded after completion of contract.
- E. Submittal drawings (shop, erection or setting drawings) and schedules, required for work of various trades, shall be checked before submission by technically qualified employees of Contractor for accuracy, completeness and compliance with contract requirements. These drawings and schedules shall be stamped and signed by Contractor certifying to such check.
1. For each drawing required, submit one legible photographic paper or vellum reproducible.
  2. Reproducible shall be full size.
  3. Each drawing shall have marked thereon, proper descriptive title, including Medical Center location, project number, manufacturer's number, reference to contract drawing number, detail Section Number, and Specification Section Number.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

07-01-15  
January 13, 2017  
Issued for Construction

4. A space 120 mm by 125 mm (4-3/4 by 5 inches) shall be reserved on each drawing to accommodate approval or disapproval stamp.
  5. Submit drawings, ROLLED WITHIN A MAILING TUBE, fully protected for shipment.
  6. One reproducible print of approved or disapproved shop drawings will be forwarded to Contractor.
  7. When work is directly related and involves more than one trade, shop drawings shall be submitted to Architect-Engineer under one cover.
- 1.10. Samples, shop drawings, test reports, certificates and manufacturers' literature and data, shall be submitted for approval to

Mabbett & Associates

(Architect-Engineer)

5 Alfred Circle

(A/E P.O. Address)

Bedford, Massachusetts 01730

(City, State and Zip Code)

- 1.11. At the time of transmittal to the Architect-Engineer, the Contractor shall also send a copy of the complete submittal directly to the Resident Engineer.

- - - E N D - - -

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

**SECTION 01 35 13**  
**SPECIAL PROJECT PROCEDURES**

**Part 1 - General**

- 1.1 Provide a Submittal Schedule within fourteen (14) days after receipt of Notice to Proceed and before any items are submitted for review. Compile a complete and comprehensive schedule for all submittals anticipated to be made during progress of the work and submit to the Contracting Officer for approval. The schedule of submittals must be coordinated with the Contractor's construction schedule. Include a list of each type of item for which Contractor's drawings, shop drawings, certificates of compliance, material samples, guarantees, or other types of submittals are required. For each submittal item indicate the specification section and paragraph or other source within the contract documents where the requirements for the submittal item are described. Indicate whether proposed materials, equipment, and other items are as specified or will be submitted as an "or equal" or as a substitution. Upon review and approval by the Contracting Officer, the contractor will be required to adhere to the schedule except where specifically otherwise permitted.
- 1.2 Work of this project shall be performed between the hours of 7:00 AM and 11:00 PM Monday through Friday, holidays excepted unless other times are arranged in advance and approved in writing by the Project Manager. When the contractor's work interferes with hospital functions, such as when work produces excessive noise, odors, dust, utility service interruptions, or other interferences with normal hospital operations that cannot be contained within the area of work, the contractor shall schedule said work at the hours directed by the Project Manager.
- 1.3 Infection Control: All work shall be performed in accordance with the Construction Specifications for Infection Control Section 01 35 33. For purposes of this project, the work shall be considered a minimum protection Class III/IV throughout the existing facility and shall be accomplished using the controls indicated in the specifications and on the Infection Control Construction Permit (attached as part of the contract documents) for this class of protection. No work will be allowed to proceed until an Infection Control Construction Permit has been completed and signed and all protective measures required by the permit are in place.
- 1.4 The contractor shall arrange with the Project Manager for allocation of required workspace and for the storage of equipment and material to be used for this project. Storage space is very limited. There are no exclusive areas within the campus that can be given to the contractor for their storage needs. Additionally, no space will be made available for the placement of a contractor trailer for this project. The Contractor should schedule delivery of materials to limit the amount of storage space and time.
- 1.5 The Contractor shall note this scope of work does not detail all existing structures, utilities, or components that may potentially interfere with the contract work required. The contractor shall note any obstruction, utility, or condition that may hinder or interfere with the execution of this contract and the contractor shall make provisions in their contract price to resolve such interferences and other conditions that may hinder the proper completion of the work. All proposed utility relocations,

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

interruptions, and shutdowns shall be approved by the Project Manager prior to commencing such work. The contractor shall verify all existing utility installations and take appropriate action prior to working around any potential utility installation.

- 1.5.1 Prior to drilling or coring into or through any concrete floor, beam, column, or other structural element the contractor shall conduct non-destructive surveys to identify the presence of any embedded items such as conduits, piping, reinforcing steel, or other items that may be damaged by the proposed drilling or coring. Contractor shall use the results of this survey to determine a location for drilling or coring that will not damage embedded items in the structure.
- 1.5.2 Prior to excavating for any purpose, the contractor shall perform a survey using ground-penetrating radar or other non-destructive survey method to identify the location of existing underground utilities. The contractor shall use the results of this survey to determine means necessary to protect existing underground utilities from damage during construction.
- 1.6 In the event a shutdown, restriction, or interruption of any utility services is required, a written request must be submitted (at least 15 calendar days in advance) and approved by the VA Project Manager. All utility shutdowns must be reviewed and approved by the VA. See Article 1.6 of Section 01 00 00 (General Requirements) for additional requirements.
- 1.7 Comply with Providence VAMC Policy 138-19 regarding Interim life Safety Measures at Appendix C of this specification. Provide Interim Life Safety Measures (ILSM) as necessary to ensure that the continued occupancy of all VAMC Providence buildings can be safely maintained during construction in accordance with NFPA 101, The Life Safety Code.
- 1.8 Contractor shall participate with the VA in the preparation of an Interim Life Safety Plan that will be implemented during construction of this project. At a minimum, the Contractor shall comply with the following requirements of the interim life safety plan:
  - 1.8.1 Ensure building exits provide free and unobstructed egress for all occupants.
  - 1.8.2 Contractor shall maintain escape facilities for construction workers at all times. Means of egress in construction areas will be inspected daily. If required by the Contractor's operation, establish and mark alternate means of egress.
  - 1.8.3 Ensure free and unobstructed access to all areas of the project site for emergency services and for emergency forces.
  - 1.8.4 Ensure that existing fire alarm, detection, and suppression systems are not impaired by the Contractor's operations.
  - 1.8.5 Do not impair automatic sprinklers, smoke and heat detection, and fire alarm systems except for portions immediately under construction, and temporarily for connections. Provide fire watch in accordance with NFPA standards for impairments more than 4 hours in a 24-hour period. Request interruptions in writing a minimum of 72 hours in advance and coordinate with the Project Manager.
  - 1.8.6 Provide signs to identify exit access, exits, and exit discharges as needed for interim life safety measures that are identified for the contractor's work.



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

- 1.8.7 Provide written procedures and guidelines for construction personnel and post in the immediate areas of construction including instructions and personnel to contact in the event of fire or emergency.
- 1.8.8 Maintain the construction area to minimize the potential for fire or safety hazards resulting from storage of construction material, construction waste and debris during construction operations.
- 1.8.9 All temporary construction shall be built of noncombustible/fire retardant materials and shall be smoke tight.
- 1.9 Ensure that all penetrations made in fire resistance assemblies of the existing hospital building, to include smoke barriers, fire separation assemblies, and fire walls, are properly fire stopped within 4 hours after making the penetration.
- 1.9.1 Any fire watch required shall be by a qualified person provided by the Contractor who shall maintain constant observation of the affected area and have no other duties. The person providing the fire watch shall be trained in fire prevention and in the use of fire extinguishers, occupant hose lines, occupant fire protection system, in sounding the building fire alarm and in notifying the local fire department, and in understanding the particular fire safety situation for the project.
- 1.10 Contractor shall comply with the requirements to prevent false fire alarms as provided in Appendix A of this specification. Contractor shall provide a fire watch in accordance with paragraph 1.8 above when impairment of the fire alarm system or the sprinkler system exceeds 4 hours in a 24 hour period.
- 1.11 Sprinkler systems will not be shut down except for portions of the sprinkler system under renovation, modification or construction, or for new connections to the sprinkler system. Sprinkler systems will not be shut down to avoid accidental discharge of the sprinkler system caused by unintentional damage to the sprinkler system from construction activity. Provide metal head guards at each sprinkler head within the limits of work.
- 1.12 Do not compromise the integrity of existing smoke and fire barriers within any building. Comply with Providence VAMC Policy 138-11 requirements for maintaining the integrity of the existing fire protective construction. VAMC Policy 138-11 is at Appendix E to this specification section. Obtain permits from Providence VAMC prior to any installation of equipment, cables, power connections, conduit, piping or other work that penetrates or disturbs a smoke or fire barrier. All such work shall be approved by Facilities Management Service (FMS) of the VAMC Providence. A penetration permit must be secured from FMS prior to disturbing the integrity of any fire or smoke barrier. The permit must be available for inspection at the project location. After the work is completed, the penetration must be repaired (sealed) utilizing UL/FM-listed through penetration fire stopping materials that meet the original smoke and fire compartmentalization performance of the barrier that was penetrated. All penetrations and miscellaneous openings must be protected according to NFPA 101, chapter 8. Ensure that all penetrations made in fire resistance assemblies of the existing hospital building, to include smoke barriers, fire separation assemblies, and fire walls, are properly fire stopped within 4 hours after making the penetration.

Identify through-penetration fire stop systems with pressure-sensitive, self-adhesive, preprinted vinyl labels. Attach labels permanently to surfaces of penetrated construction on both sides of each fire stop system

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project NO. 650-16-011

January 13, 2017  
 Issued for Construction

installation where labels will be visible to anyone seeking to remove penetrating items or fire stop systems. Include the following information on labels:

- The words: "Warning -Through Penetration Fire stop System-Do Not Disturb. Notify Building Management of Any Damage."
- Contractor's Name, address, and phone number.
- Through-Penetration fire stop system designation of applicable testing and inspecting agency.
- Date of Installation.
- Through-Penetration fire stop system manufacturer's name.
- Installer's Name.

Upon completion of any penetration fire stopping, a visual inspection for approval must be requested from, and completed by the COTR.

- 1.13 Comply with requirements of the Providence VAMC Contractor Safety Manual, latest edition, which is included at Appendix D to this specification.
- 1.14 The US Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, is incorporated by reference and the contractor shall comply with the requirements of this manual. In the event of a conflict between the requirements of EM 385-1-1 and the Providence VAMC Contractor Safety Manual, the more stringent requirements shall apply.
- 1.15 Obtain a Crane Permit when use of a crane is intended. Comply with requirements of Providence VA Medical Center Facilities Management Service SOP Policy Memo 138-16 at Appendix G.
- 1.16 Contractor shall submit a site-specific Safety Plan that provide project- and site-specific activity hazard analyses and accident prevention plans. The Contractor's site-specific Safety plan shall be submitted for information purposes. The Safety Plan shall conform to the requirements of FAR 52.236-13 and shall include, as a minimum, provisions for the following:
  - Site access and control to restrict access by unauthorized persons and allow for separation of VA staff, patients and visitors from construction personnel.
  - Site security to restrict unauthorized entry by contractor personnel into areas of building 1 determined by the VA to be non-accessible; and to address the need for identification badges to be worn by construction personnel; key control; and loading/unloading of materials and wastes.
  - The contractor's substance abuse policy and training requirements
  - Contractor's plan for site safety and health inspections
  - Contractor's plan for safety and health training
  - Contractor's site-specific fall protection program
  - Contractor's site-specific electrical safety plan
  - Contractor's requirements for use of personal protective equipment (PPE).
  - Contractor's accident reporting and investigation program. The contractor shall submit a written incident report to the VA Project Manager within 24 hours after any accident, injury, occupational illness, or other safety-related incident occurs, regardless of how minor the nature of the incident.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

- Contractor's emergency action plan and fire prevention and protection plan, to include training of contractor personnel in the provisions of these plans.
  - Contractor's minimum safety training requirements for its personnel and the personnel of its sub-contractors.
  - Contractor's requirements for sub-contractor conformance to the site-specific Safety Plan
  - Identity of the Contractor's designated "Competent Person" as defined by 29 CFR 1926 (OSHA Construction Industry Regulations). The contractor shall provide a Competent Person who shall be on the project site during activities when the expertise of the designated Competent Person is required.
  - Contractor's protocol for inspections by regulatory agencies.
- 1.17 All employees of the contractor and the contractor's subcontractors are required to attend a 1-hour VA Safety Training briefing before the employee commences any work activities on VA property.
- 1.18 Contractor shall comply with Providence VA Medical Center procedures for the Lockout/Tag Out of energy systems and devices. This procedure is stipulated in Facilities Management Service Standard Operating Procedure (SOP) Number 12 dated July 5, 2011, which is included as Appendix F to this specification section.
- 1.19 All permits shall be posted in a visible location where the work is being performed (e.g., penetration permit, hot work permit, infection control permit).
- 1.20 Unless noted otherwise, the Contractor shall have present on the project site at any time work is being performed an employee of the Contractor who possesses a PIV (Personal Identity Verification) badge issued by the Providence VAMC. The PIV badge is part of a program mandated by Homeland Security Presidential Directive 12 and the Federal Information Processing Standard Publication 201-1. PIV badges take up to 3 months to obtain due to VA policy that requires that a background investigation (NACI) be completed prior to issuing the PIV badge. Requests for a PIV badge shall be initiated through the VA's Project Manager to the PIV Sponsor in the Facilities Management Service office of the Providence VA Medical Center. The Contractor shall complete and submit the PIV Form 0711 and fingerprint forms, and provide two forms of identification (such as driver's license, birth certificate or passport). The Contractor shall pay the cost of any background investigation required to obtain the PIV badge. Providence VAMC will approve no more than two (2) PIV badges for a contractor for a single project. In no case will a PIV badge be issued to any sub-contractor. All other contractor personnel shall obtain a short-term identification badge issued by the VA's Project Manager. Such badge shall be worn by the individual and prominently displayed at all times while on VA property. No employee of the contractor shall enter the project site without a valid identification badge issued by the VA. In order to obtain a short-term identification badge, contractor personnel shall present to the VA Project Manager a valid (non-expired) photo identification issued by a US federal, state or local government agency.
- 1.21 Smoking is not permitted anywhere on VA property, except in areas clearly marked and designated for smoking. Currently, there is only one such designated area at the VAMC Providence.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

- 1.22 For written Requests for Information, Contractors shall use the form at Appendix B to this specification.
- 1.23 Parking is rigidly controlled throughout the Medical Center. Parking of privately-owned vehicles by contractor personnel is prohibited on the hospital campus and is only allowed at the Davis Park location off Chalkstone Avenue. Parking in designated patient parking areas is strictly prohibited. Parking on grass is also prohibited. Parking for equipment necessary to perform the work will be authorized in advance of starting the project. Parking passes will be issued by the VA Police. Parking by contractors will be regulated in accordance with Providence VA Medical Center Policy Memorandum 07B-3 entitled *Registration of Privately Owned Vehicles* at Appendix H.
- 1.24 Cutting and Patching: Cutting of existing surfaces shall be made along neat, straight lines and shall extend only to the limits needed for the new work. Where removals leave holes and damaged surfaces exposed in the finished work, patch and repair these holes and damaged surfaces to match adjacent finished surfaces, using new materials of the same quality as that applied to existing adjacent finished surfaces. Perform removals and patching in a manner to produce surfaces suitable for receiving new work. Finished surface of patched area shall be flush with the adjacent existing surface and shall match the existing adjacent surface in appearance, texture, level, and finish. If adjacent existing surfaces are painted, the patched surface shall be painted in 3 coats (primer and 2 finish coats) using a paint that is compatible with the materials used for patching and in a color that matches the existing paint finish. Painting of patched walls shall cover the entire patched surface and extend vertically across existing surfaces from floor level to ceiling level and horizontally to a point where the existing wall surface changes direction. If adjacent existing wall surfaces are finished with wall covering, provide new wall covering to match color and texture of existing. Cover entire patched surface and extend new wall covering vertically across existing surfaces from floor level to ceiling level and extend horizontally across existing surfaces to match existing wall covering in a neat vertical line.
- 1.25 Warranty Service: This hospital provides medical care to veterans 24 hours per day on every day of the year and therefore all building systems must be operating and functioning at all times. In the event that warranty service is required during the warranty period of any portion of the work provided as part of this contract, the contractor shall respond within 4 hours after notification that warranty service and/or repairs are required. Contractor response shall include dispatch of appropriate skilled trade personnel with the necessary materials, tools and equipment that shall arrive on site within 4 hours after notification of the need for warranty service. The contractor shall provide a single point of contact that is available 24 hours per day on every day of the year to receive notification of the need for warranty service. The requirement to respond within 4 hours of warranty service notification may be waived by the government if, at its sole discretion and judgment, the need for warranty service does not constitute an emergency.
- 1.26 APPENDICES  
A - Fire Systems Protection During Construction

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

- B - Request for Information
- C - VAMC Providence Policy 138-19 Interim Life Safety Measures
- D - Providence VAMC Contractor Safety Manual
- E - VAMC Providence Policy 138-11 Fire Wall/Smoke Barrier Penetration Permits
- F - Lockout / Tag out Procedure (FMS SOP #12)
- G - Cranes
- H - Registration of Privately Owned Vehicles

-----END-----

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

## Appendix A

### Fire Systems Protection During Construction

1. Preventing False Fire Alarms by Smoke Detectors During Construction  
Construction and building maintenance activities can potentially generate sufficient airborne dust to activate a fire alarm through nearby smoke detectors. An alarm activated by a smoke detector is immediately transmitted to the municipal fire department, which responds to the hospital with equipment and personnel. In order to prevent false fire alarms from smoke detectors during construction or other maintenance activities, it has been the practice of construction personnel to place a cover over nearby smoke detectors to prevent airborne dust from entering the detector. This practice has been effective in preventing false fire alarms; however this practice has also led to undocumented impairments to the fire alarm system when these covers are not removed when no longer needed to prevent a false alarm.

The following measures will be taken to prevent false fire alarms through smoke detectors during construction while maintaining effective control over impairments to the fire alarm system:

--When it is determined that a smoke detector may be activated by construction dust, the contractor or project manager shall direct a request to one of the hospital's electronics technicians to disable the smoke detector or any other device of the fire alarm system. The request shall include the Node, Loop, and Address of the device(s) to be disabled, the duration, and the specific types of construction or maintenance activities that are planned. The electronics technician will disable the smoke detector until notified by either the contractor or project manager that construction has ended for the day. When notified that construction has ended for the day, the electronics technician will re-enable the smoke detector. The smoke detector that is disabled will indicate a "trouble" condition at the fire alarm control panel and serve as an active indication that a smoke detector or multiple detectors have been impaired. The "trouble" indication will also serve as a continuous reminder to hospital staff that the smoke detector(s) must be restored to normal service.

--Contractors or project managers shall provide at least 48 hours notice to the electronics technicians for disabling of a smoke detector or any other fire alarm system device.

--In no case will the smoke detector(s) be disabled for more than 8 hours in a single 24 hour period. If any smoke detector or any other fire alarm system device is disabled for more than 4 hours in a 24 hour period, the project manager will prepare an ILSM risk assessment and a fire watch shall be provided by the construction contractor as specified in the contract documents, or by hospital staff as designated by the project manager.

--Covers shall not be used on a smoke detector at any time. If found, covers shall be immediately removed from smoke detectors.

### 2. Sprinkler System Shutdowns during Construction

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

Construction and building maintenance may require the removal, modification, or relocation of sprinkler heads or piping. In order to prevent false fire alarms as a result of this sprinkler work, a procedure has been implemented for sprinkler system shutdowns. The following measures will be taken to prevent false fire alarms as a result of sprinkler work that maintains effective control over impairments to the installed sprinkler system:

When it is determined that the facility's sprinkler system must be shut down for system modifications, the contractor or project manager shall direct a request for shutdown to the VA. The request shall identify the specific area of the hospital impacted by the shutdown and the shutdown duration. The shutdown will be performed by VA staff. The VA staff will disable the fire alarm system points necessary to prevent false annunciation of a sprinkler system discharge. The VA staff, or the sprinkler system contractor when authorized in writing by the hospital, will close the appropriate riser valve(s) to isolate that portion of the sprinkler system that is being worked on or that needs to be isolated. The closed sprinkler valve(s) shall be identified with a sprinkler valve "SHUT" tag by the party that closed the valve(s). The closed sprinkler valve(s) will indicate a "trouble" condition at the fire alarm control panel to serve as an active indication that the sprinkler system has been impaired. The "trouble" indication will also serve as a continuous reminder to hospital staff that the sprinkler system must be restored to service.

If a section of the sprinkler system is to be drained for piping or sprinkler head replacement work, the VA staff will notify the City of Providence fire alarm division that the master box will be out of service and disable the appropriate sprinkler flow switches and/or fire main. Once the system is drained in the specific area, the VA staff can reinstall all sprinkler system flow switch devices and the master box so that they are not required to be present in the fire alarm room as a fire watch for the system. At the completion of the sprinkler system work, the contractor is responsible for notifying the VA staff that the construction activity has ended for the day and that the sprinkler system is to be refilled and restored to normal operation. The VA staff must take out all flow switches, fire alarm annunciating devices, and possibly main fire pump prior to recharging of the system. Once the appropriate devices are disabled the VA staff, or the contractor when authorized in writing by the hospital, can then start filling the system and bleeding air out the Inspector Test Valve (ITV) until the sprinkler system is completely refilled in the specific area of the facility. The contractor must stay in the impacted area for a minimum of 15 minutes after the system is refilled to ensure there are no leaks in or abnormalities to the fire and sprinkler systems.

--Contractors shall provide at least 48 hours notice to the VA for sprinkler system shutdown. Email is the preferred method of notification.

--In no case will the sprinkler system be disabled on two consecutive floors or in multiple areas at the same time in the main hospital building.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

--In no case will the sprinkler system be disabled while smoke detectors or other fire alarm initiating devices are disabled in the same area.

--In no case will sprinkler systems be shut down except for portions of the sprinkler system under renovation, modification or construction, or for new connections to the sprinkler system. Sprinkler systems will not be shut down to avoid accidental discharge of the sprinkler system caused by unintentional damage to the sprinkler system from construction activity. Provide metal head guards at each sprinkler head within the limits of work.

--In no case will the sprinkler system be disabled for more than 8 hours in a single 24 hour period. If the sprinkler system must be disabled for more than 4 hours in a 24 hour period, the project manager will prepare an ILSM risk assessment and a fire watch shall be provided by the construction contractor as specified in the contract documents.



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

Appendix B

Request for Information Form

(See next Page)

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project NO. 650-16-011

January 13, 2017  
 Issued for Construction



Providence VA Medical Center  
 Facilities Management Service  
 633 Atwells Ave. 3<sup>rd</sup> floor  
 Providence, R.I. 02909  
 401-459-4760  
 Fax 401-421-0594

## REQUEST FOR INFORMATION NO.

<b>PROJECT TITLE:</b> _____ <b>CONTRACT NO.</b> _____ <b>VA PROJECT NO.</b> _____	<b>DATE REQUIRED:</b> _____
<b>TO:</b> _____    	<b>FROM:</b> _____    

### REQUEST:

Requested By: \_\_\_\_\_ Date: \_\_\_\_\_

Signed: \_\_\_\_\_

### RESPONSE:



This response does not constitute a change to the contract and is not an authorization to the contractor to proceed with any work that modifies the contract price or the time of performance. If the contractor believes that this response modifies any portion of the contract, the contractor shall make timely notice to the Contracting Officer and await the Contracting Officer's direction before proceeding with any work that the contractor believes is a modification to the contract.



This response may constitute a change to the contract documents. Do not proceed with any work indicated in this response that changes the contract documents until directed in writing by the Contracting Officer.

Response By:	Concur:
Signed: _____ 01 35 13 - 12	Signed: _____ VA Project Manager
Date:	Date: _____

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

## Appendix C

VA MEDICAL CENTER  
PROVIDENCE, RHODE ISLAND

POLICY MEMORANDUM 138- 19  
April 13, 2012

### INTERIM LIFE SAFETY CODE MEASURES

#### 1. PURPOSE

It is the policy of the Providence Veterans Administration Medical Center to assure the safety of all building occupants during periods of construction or when deficiencies compromise the level of life safety protection provided by the building. Accordingly, when a life safety feature of the facility is compromised, Interim Life Safety Measures (ILSM) will be initiated to minimize risk to staff, patients and visitors.

#### 2. POLICY

##### ASSESSMENT CRITERIA.

- a. The Interim Life Safety Measures (ILSM) policy will cover situations when Life Safety Code deficiencies cannot be immediately corrected or during periods of construction.
- b. The Life Safety Code deficiency, whether identified on the Statement of Conditions or through environmental tours, will be evaluated to determine if ILSM criteria need to be implemented.
- c. The potential project, whether construction, renovation, and/or remodeling, will be assessed using the ILSM Project Risk Assessment Worksheet (Attachment A) at least two weeks before the project begins.
- d. ILSM's are intended to provide a level of fire safety comparable to that described in the latest edition of NFPA 101 Life Safety Code.

#### 3. DEFINITIONS

- a. CP - Competent Person; a person deemed qualified by training and education to oversee aspects of construction safety. A Competent Person may be appointed by the Chief, Facilities Management Service, as appropriate.
- b. PM - Project Manager; a person appointed to oversee all aspects of a project from inception to completion and to coordinate all aspects of a project with Service Chiefs, Fiscal Service, Contracting, management, regulatory officials and customers.
- c. AHJ - Authority Having Jurisdiction: Chief, Facilities Management Service.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

d. ILSM - Interim Life Safety Measures.

e. Responsible Party - Person or organization which caused a Life Safety Deficiency. In instances of construction, the contractor is the Responsible Party. In instances of hospital staff blocking an exit, the staff member is the Responsible Party. In instances of LSC deficiencies of unknown origin, Facilities Management Service is the Responsible Party.

4. MEMBERSHIP

None.

5. PROCEDURES

a. Interim Life Safety Measures will apply when any of the conditions identified on the Risk Assessment Worksheet are anticipated for a construction project or when Life Safety Code (LSC) deficiencies are discovered or caused by other means and cannot be corrected immediately (within 45 days or less).

b. Construction Projects or other LSC deficiencies shall be evaluated in accordance with the attached Risk Assessment Worksheet (Attachment A).

c. If any one of the conditions in the Risk Assessment Worksheet is answered yes, the need for and identification of appropriate interim measures will be completed and submitted to the Safety Manager or designee for review. In some instances, no ILSM will be required even though the worksheet is answered "yes". These instances will be documented. If none of the Risk Assessment Worksheet questions are answered in the affirmative, "yes", the form will be noted and submitted to the Safety Manager or designee for review.

d. All assessments of Life Safety Code deficiencies will be submitted to the Chief of Facilities Management Service for approval. A database shall be maintained by the Safety Manager or designee which includes a serialized number assigned to each assessment, project name where appropriate, project manager's name, and date and duration of the Life Safety Code deficiency.

e. ILSM Requirement Risk Assessment Worksheet Instructions:

(1) Evaluate the project or deficiency for impact on exiting, compartmentation, fire detection and response systems, ignition sources, storage, debris, emergency access and other potential concerns.

(2) Determine if the impact is significant. In general, projects less than a week in length which do not reduce the level of life safety below Life Safety Code minimum requirements are not significant. An activity which takes place in a room with an intact door which does not penetrate walls generally does not require an ILSM. Activity that affects doors or walls for less than one shift generally does not require an ILSM. Activities that block or compromise exit stairs, required exit access corridors, or exit discharge areas for more than one shift generally require an ILSM. Impairment of any portion of a fire detection or suppression system will require an ILSM.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

f. Inspection Period Activity: The Safety Manager or other qualified person as designated by the Chief, Facilities Management Service, shall conduct inspections of active Interim Life Safety Code Measures during the duration of the LSC deficiency. Copies of the inspections shall contain the serial number of the project and be maintained by the Safety Manager or designee. Gaps or deficiencies in the ILSM shall be immediately brought to the attention of the Project Manager for immediate corrective action. Inspections shall be completed according to the following frequency:

(1) Daily inspection of exiting for access, integrity and discharge.

(2) Weekly inspection of construction sites for barrier integrity, smoking, storage, debris removal, fire system integrity, and extra fire fighting equipment.

(3) Monthly inspection and testing of temporary systems, one additional fire drill per shift per quarter, where prescribed by the ILSM plan, and evaluation of persons in the affected area's knowledge of the ILSM plan.

(4) Project initiation and, as needed, training for facility staff.

## 6. RESPONSIBILITY

a. The Medical Center Director is responsible for providing resources to maintain compliance with the Life Safety Code at all times.

b. The Chief, Facilities Management Service is responsible for approving all Assessments and Interim Life Safety Measures.

c. The Safety Manager is responsible for reviewing all assessments and Interim Life Safety Measures and, when designated, for completing inspections of life safety deficiencies. The Safety Manager or designee is responsible for maintaining a database and system of record keeping of all assessments, ILSM's and inspections.

d. The Project Manager and/or Responsible Party is responsible for completing an ILSM Risk Assessment Worksheet for each activity which may compromise a life safety requirement, identify the Interim Life Safety Measure needed by completing Attachment B, submitting the assessment to the Safety Manager or designee and having the Responsible Party correct any deficiency in compliance with an established ILSM.

## 7. REFERENCES

NFPA 101

## 8. RESCISSIONS

Policy Memorandum 138-19 Interim Life Safety Measures dated April 21, 2009.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

VINCENT NG  
Medical Center Director

Attachments: A - Interim Life Safety Measures (ILSM) Risk Assessment Worksheet  
B - Interim Life Safety Measures Check Sheet of Required Measures  
to be Implemented.  
C - ILSM Inspection Form

DISTRIBUTION: D

PM 138-19

ATTACHMENT A

## PVAMC ILSM Requirement Risk Assessment Worksheet

These criteria will be used to evaluate smoke compartments in which a Life Safety Code deficiency has been identified, or in which construction, renovation or alteration activities are planned. Any "Yes" answers below may require an ILSM to address occupant safety.

- Document any methods you plan on using, and what measures will be taken under comments.
- Send to the Environmental Safety and Health Office-TR7, after completion.

Responsible Party:

Responsible Manager:

Log# \_\_\_\_\_

Project No. &amp; Title:

Building/Location/Room:

Brief description of Project or Deficiency and what hazards it will create:

Date Prepared:

Expected Start Date:

Expected End Date:

CRITERIA	YES	NO
The issue/work alters or significantly compromises exit access, exiting, or exit discharge building elements		
The issue/work compromises building compartmentation including fire or smoke walls, floor/ceiling assemblies, corridor walls, use area doors, or other defend in place elements		
The issue/work impairs the building Fire Protection Systems (alarm, sprinklers, suppression) for more than 4 hours in a 24-hour period.		
The activity includes Hot Work		
The activity includes large quantities of combustible materials, flammable materials, or generation of large amounts of dust and debris.		
Access to the area by emergency forces will be impaired		
Will non/limited combustible partitions be required?		

Evaluation of Risks:

[ ] ILSM are required\*

[ ] ILSM are not required\*

\* A yes answer to any of the above criteria may require that an ILSM be initiated. Use the following check sheet to denote the interim life safety measures appropriate for the issue/work which compromises life safety. Daily inspections of egress access will be completed in accordance with the checked sheet and completed on the attached form during the pendency of the compromise to a life safety system.. Periodic inspections of other aspects of an ILSM shall be completed during the pendency of the ILSM. All forms will be maintained by the Safety Manager with copies in the project file. Provide the completed Risk Assessment to the Safety Manager for review. Maintain a copy in the project file.

Responsible Party: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager: \_\_\_\_\_

Date: \_\_\_\_\_

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project NO. 650-16-011

January 13, 2017  
Issued for Construction

Reviewed by: \_\_\_\_\_ Safety Manager      Date: \_\_\_\_\_

Approved by: \_\_\_\_\_ Chief, Facilities Management      Date: \_\_\_\_\_

Closed \_\_\_\_\_ Chief, Facilities Management      Date: \_\_\_\_\_



## Interim Life Safety Measures to be Implemented

Project Name or other identifying information: \_\_\_\_\_

Project Number: \_\_\_\_\_

Log Number: \_\_\_\_\_

Place a check mark in each applicable ILSM activity as determined by an assessment of the risks identified in the Risk Assessment Work Sheet.

### #1 INSPECTIONS / SURVEILLANCE

- ☐ ☐ a. Increased surveillance of buildings, grounds, and equipment: shift / daily / other:
- ☐ ☐ b. Means of exiting construction areas inspected daily
- ☐ ☐ c. Implementation of Fire Watch
- ☐ ☐ d. Provide Temporary Exit Signs
- ☐ ☐ e. Not applicable

### #2 ACCESSIBILITY

- ☐ ☐ a. Maintenance of escape/egress routes from construction areas
- ☐ ☐ b. Maintenance of access to emergency services for emergency equipment, fire alarm pull stations, Fire Department connections (internal & external)
- ☐ ☐ c. Not applicable

### #3 EQUIPMENT – LIFE SAFETY

- ☐ ☐ a. Temporary fire alarm, detection, suppression system in place
- ☐ ☐ b. Monthly testing and inspection of temporary systems
- ☐ ☐ c. Provide additional fire extinguisher or other firefighting equipment in project area
- ☐ ☐ d. Provide additional fire extinguishers or other firefighting equipment in adjacent areas
- ☐ ☐ e. Not applicable

### #4 COMMUNICATIONS

- ☐ ☐ a. Notification to Municipal Fire Department (or applicable emergency forces group)
- ☐ ☐ b. Not applicable

### #5 CONSTRUCTION MATERIALS / PRACTICES

- ☐ ☐ a. Partitions smoke tight and constructed of noncombustible or limited combustible materials
- ☐ ☐ b. Prohibition of smoking throughout building and in and near construction areas
- ☐ ☐ c. Implement appropriate storage practices
- ☐ ☐ d. Implement appropriate housekeeping practices
- ☐ ☐ e. Implement appropriate debris removal practices
- ☐ ☐ f. Not applicable

**#6 FIRE DRILLS**

- ☐ ☐ a. 2 fire drills per shift per quarter throughout Hospital (one additional drill beyond requirement of EC.5.30).
- ☐ ☐ b. 2 fire drills per shift per quarter in areas adjacent to project (one additional drill beyond requirement of EC.5.30)
- ☐ ☐ c. More than 2 fire drills per shift per quarter throughout Hospital. If yes, how many \_\_\_\_\_
- ☐ ☐ d. More than 2 fire drills per shift per quarter in areas adjacent to project. If yes, how many \_\_\_\_\_
- ☐ ☐ e. Not applicable

**#7 TRAINING**

- ☐ ☐ a. Additional training for staff in immediate area
- ☐ ☐ b. Additional training for staff throughout hospital
- ☐ ☐ c. Additional training for incident response team
- ☐ ☐ d. Training to promote awareness of fire-safety building deficiencies, construction hazards, ILSM
- ☐ ☐ e. Training on changes in physical environment (egress routes)
- ☐ ☐ f. Training on firefighting equipment
- ☐ ☐ g. Training on compensating for impaired structural or compartmentalization features of fire safety
- ☐ ☐ h. Not applicable

Other ILSM Measures (if applicable): \_\_\_\_\_

Special Instructions for each ILSM Measure Identified: \_\_\_\_\_

Responsible Party: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager: \_\_\_\_\_ Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_, Safety Manager Date: \_\_\_\_\_

Approved by: \_\_\_\_\_ Chief, Facilities Management Date: \_\_\_\_\_

## ILSM Inspection Form

Project Name: \_\_\_\_\_

Log Number: \_\_\_\_\_

	Measure	<u>Applicable</u>		<u>Complies</u>		<u>Discrepancies</u>
		Y	N	Y	N	
1.	Exits are inspected on a daily basis and are free and unobstructed. No construction materials, equipment, or debris block free use of all exits adjacent to the construction site or are impacted by the project. Temporary exit signs are in place. Details:					
2.	Provide temporary, but equivalent fire alarm and detection system. Details:					
3.	Provides additional fire-fighting equipment (fire extinguishers). Equipment is functional and tests are up to date. Details:					
4.	Temporary construction partitions are smoke tight, or made of noncombustible material, or made of limited combustible material that will not contribute to the development or spread of fire. Details:					
5.	Surveillance is increased of buildings, grounds, and equipment with special attention to construction areas and storage, excavation, and field offices. Details:					
6.	Enforces storage, housekeeping, and debris removal practices that reduce the building's flammable and combustible fire load to the lowest feasible level. Details:					
7.	Additional training is provided to those in the hospital on the use of firefighting equipment. Details:					
8.	Additional fire drill per shift, per quarter are conducted. Details:					
9.	Temporary systems are tested and inspected monthly, and the completion dates for these tests is documented. Details:					
10.	Education is conducted to promote the awareness of building deficiencies, construction hazards, and temporary measures implemented to maintain fire safety. Details:					
11.	Training for those who work in the hospital is done to compensate for impaired structural or compartmental features. Details:					
12.	Smoking					

Prepared by: \_\_\_\_\_ Project Manager Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_ Safety Manager Date: \_\_\_\_\_

Inspected by: \_\_\_\_\_ FMS      Date: \_\_\_\_\_

## *Appendix D*

### General Conditions

## Providence VA Medical Center Construction Safety Manual

INTRODUCTION .....	24
1.0 GENERAL INFORMATION .....	25
1.1 Standard Safety and Security Rules .....	25
1.2 Safety Permits and Procedures .....	25
1.3 Housekeeping .....	26
1.4 Accident, Incident, Injury, or Illness .....	26
2.0 ENVIRONMENTAL ISSUES .....	26
2.1 Hazardous Waste Management .....	26
2.2 Transport of Hazardous Materials .....	27
2.3 Spill Prevention and Control .....	27
2.4 Pest Control .....	28
2.5 Air Emissions .....	28
2.6 Stormwater and Wastewater .....	28
2.7 Biological/Chemical/Radioactivity Hazards .....	29
2.8 Asbestos Containing Materials .....	29
2.9 Lead Paint .....	29
3.0 OSHA SAFETY ISSUES .....	30
3.1 Hazardous Materials and Hazard Communication .....	30
Hazardous Materials .....	30
3.2 Confined Space Entry .....	30
3.3 Lockout / Tagout .....	31
3.4 General Electrical Safety .....	31
3.5 Compressed Gas Cylinders .....	31
3.6 Powder-Actuated Tools .....	32
3.7 Welding, Cutting, and Brazing Hot Work Permit .....	32
3.8 Cranes and Rigging .....	32
3.9 Miscellaneous Additional Safety Rules for the Protection of PVAMC .....	32
Patients, Visitors, Employees, Neighbors and Property .....	32

## INTRODUCTION

All contractors, Project Managers, and employees engaged in construction activities at the PVAMC must be aware of the construction safety requirements outlined in this manual.

The implementation of construction safety programs will minimize the potential for injuries and illnesses to our patients, employees and visitors from unsafe construction activities conducted by contractors and VA employees, including operations and maintenance crews, permanent construction crews and temporary purchase and hire staff.

It is the policy of the VHA to protect patients, staff, visitors and contractors from safety and health hazards associated with construction activity on VA/VHA property and leased property at which VA-funded construction is occurring.

Construction activities are defined as those that include VHA projects performed by employees or contractors and enhanced use lease projects within structures fully managed by VHA or within the purview of VHA authority.

Safety is a philosophy and a practice that identifies and eliminates job site hazards throughout the lifecycle of a project and discourages work practices and equipment that place individuals at risk of injury.

This manual outlines programs and procedures to maintain a healthy environment of care for our patients and a safe and healthy worksite for employees, visitors and contractors during construction activities.

## 1.0 GENERAL INFORMATION

### 1.1 Standard Safety and Security Rules

The following are some reasons for which an employee of a contractor may be temporarily or permanently removed from Medical Center premises:

- Possession or use of alcoholic beverages or regulated drugs not prescribed by a physician
- Possession of explosives, firearms, ammunition, and other weapons
- Deliberate violation of safety or security rules
- Illegal dumping, handling, or disposal of hazardous materials
- Destruction or removal, without written permission, of any property belonging to Providence VAMC, the property owner, employee, or other contractors or employees
- Failure to follow the directions or instructions of a VA Police Officer, VA COTR or VA Project Manager
- Failure to wear in a visible manner a facility issued identification badge
- Intimidating, threatening, harassing, impeding or interfering with an inspector, security officer, or Providence VAMC employee or designated representative
- Using emergency exits other than for emergencies
- Misuse of fire prevention and protection equipment
- Unauthorized removal or destruction of a safety barricade, handrail, guardrail, warning sign, fall protection, or other warning devices intended to protect PVAMC's students, faculty, employees, neighbors or property.

For additional information on safety guidelines that are related to security issues, you may refer to the Providence VAMC Police Department

### 1.2 Safety Permits and Procedures

The following operations may present a hazard to PVAMC employees, visitors, patients, neighbors or property. Therefore, you must obtain written approval through the Providence VAMC Project Manager before:

- Working on fire protection/detection systems
- Penetrating any smoke/fire barrier wall
- Performing burning, welding, cutting, soldering, or other hot work
- Performing any work above an existing finished ceiling
- Obstructing an exit door or any exit path within any building
- Obstructing access to the hospital by emergency services
- Working on electrical, steam, chilled water systems or other energized systems
- Moving emergency equipment (fire extinguishers, first aid kits, etc.) provided by PVAMC
- Installing a temporary electrical service
- Working with hazardous chemicals (including solvents and paints)
- Generating hazardous wastes (including waste oil)
- Using powder actuated tools
- Using a gas, diesel, or LP (propane) powered engine indoors
- Operating a power vehicle or self-propelled work platform
- Excavation/trenching
- Using radioactive sources or conducting field radiography (x-ray)
- Working with asbestos-containing materials
- Working on security systems
- Working with compressed air/gases
- Using a laser
- Working on a fume or biological hood
- Working on a solvent storage cabinet
- Working on heating, ventilation, or air conditioning equipment
- Working on a roof
- Lifting or hoisting with cranes, derricks, hoists or helicopter
- Performing blasting operations

Special Rules for Operations Involving Utilities:

- Only Providence VAMC Facilities Operations may shut down or start up operating utilities.
- You must notify your Project Manager, who will coordinate with Providence VAMC Facilities Operations, *in advance* of the need for such shutdowns or startups.

Special Rules for Lockout/Tagout of Machinery, Pipes, etc.:

- If you intend to service or maintain machinery that could hurt someone if it were to unexpectedly start up, you must inform the Providence VAMC Project Manager of the Lockout/Tagout procedures you intend to follow.
- See Section 3.3 on Lockout/Tagout generally.

### 1.3 Housekeeping

You must maintain good housekeeping. You must keep work areas neat, clean, orderly and free of excess trash and debris and never block walkways, stairs, exits, or create a tripping hazard. Cover and/or place guardrails around open holes, trenches, or excavations into which PVAMC's visitors, patients, or employees may fall. Poor housekeeping at a job site may lead to an increased potential for safety hazards and an increased incidence of accidents and chemical spills.

### 1.4 Accident, Incident, Injury, or Illness

After notifying the appropriate emergency agency (e.g., 9-1-1), work related accidents, incidents, injuries, and illnesses must be immediately reported to the Providence VAMC Project Manager or representative. The Contractor is responsible for notifying OSHA for any incidents that are reportable to that agency.

## 2.0 ENVIRONMENTAL ISSUES

### 2.1 Hazardous Waste Management

Hazardous waste generated by a Contractor as part of its work must be properly identified, stored and disposed of in accordance with all applicable local, state and federal laws. The Contractor must coordinate with its Providence VAMC representative to provide a list of hazardous waste(s) to be generated during the project, and to determine the location(s) available for hazardous waste storage. The Contractor must also ensure, at a minimum, proper labeling, adequate secondary containment, segregation of incompatible materials and routine inspection of storage areas as required by law. In addition, all hazardous waste containers shall be constructed of a material that is compatible with the waste, shall be in sound condition, and shall be kept securely closed at all times in accordance with applicable regulations. Containers and/or tanks used to store hazardous wastes must be managed in accordance with applicable regulations and must be inspected daily.

The Contractor is responsible for completing all disposal documents, which may include, but are not limited to, waste profiles, waste analytical samples and hazardous waste manifests. Providence VAMC shall be designated as the Generator on all documents and shall be provided with copies of all waste analyses, land disposal restriction forms and related documentation. Copies of all disposal documents shall be submitted to the Project Manager for review at least 5 days prior to shipment. The Project Manager or an EH&S representative will sign the manifests as the Generator. At the time of shipment, the Contractor shall provide the bottom three copies of the manifest to the Project Manager or the PVAMC EH&S representative for distribution to the appropriate agencies. Contractor employees must be appropriately trained in hazardous waste procedures. In the event a Contractor encounters previously unidentified material that is reasonably believed to be radioactive, volatile, corrosive, flammable, explosive, biomedical, infectious, toxic, hazardous, asbestos containing or oil-based, the Contractor shall immediately stop work in the affected area and report the condition to the Project Manager. At no time shall such material be disposed of in chutes, dumpsters, drains, pipes or any other waste container. The Contractor agrees to cooperate with the Project Manager and any consultants engaged by the Project Manager to perform services with respect to the analysis, detection, removal, containment, treatment and disposal of such regulated materials.



## 2.2 Transport of Hazardous Materials

All transportation of hazardous materials while on Providence VAMC property shall be conducted in accordance with USDOT Hazardous Materials Regulations for proper packaging, marking/labeling, handling, documentation, etc. At no time should hazardous materials be transported via public or private roads at Providence VAMC in a manner that could result in an unsafe condition for personnel or the environment.

## 2.3 Spill Prevention and Control

Providence VAMC's Spill Prevention Control and Countermeasures (SPCC) Program establishes Medical Center-wide procedures for the prevention and detection of spills and/or releases of oil or hazardous materials, including the following:

- Based on the inventory of oil and hazardous chemicals that will be brought on-site, the Contractor shall have available equipment (e.g., secondary containment pallets, absorbent pads, absorbent booms, speedi-dry) that is suitable and sufficient to control a potential spill/release.
- The Contractor is responsible for identifying conveyances to the environment (e.g., sumps, storm/floor drains, etc.) and adequately minimizing spill potential to these areas.
- The Contractor is responsible for the proper storage of all flammable and combustible chemicals that are brought and/or stored on site to complete the work of this contract. Such storage may require the use of safety containers, safety cabinets, and/or secondary containment. The Contractor shall also ensure that any incompatible chemicals are safely segregated. The Contractor is responsible for maintaining and securing all chemical containers and all chemical storage areas. This requires selecting locations and methods to minimize exposure to rainfall, surface water, and the ground surface or subsurface. Enclosures, shelters, and secondary containment should be used where appropriate.
- The Contractor must use appropriate protective procedures such as double containment, employee training, overflow protection, and other measures as part of activities involving the use, storage, or handling of petroleum products or hazardous materials on Providence VAMC Property.
- The Contractor must ensure that his/her employees are adequately trained in spill procedures outlined below. The Medical Center's SPCC Program also establishes reporting requirements in the event of a spill or release of oil or hazardous materials. In the event of a release or spill, the Contractor must follow all of the reporting requirements of the SPCC Program as specified below:

(1) The Contractor shall extinguish all sources of ignition and isolate incompatibles or reactive chemical substances.

(2) The Contractor shall determine if the spill/release is incidental or non-incidental.

(3) For incidental spills/releases:

- ◆ The Contractor shall attempt to stop or contain the spill/release at the source provided that doing so does not endanger anyone.
- ◆ The Contractor shall prevent discharge of materials to environmental receptors including drains, sumps, soil, etc.
- ◆ The Contractor shall immediately notify the Project Manager of all incidental spills/releases.
- ◆ The Contractor is responsible for the proper collection, storage and disposal of waste materials in compliance with EPA and R.I. DEM regulations and in cooperation with the Project Manager.

(4) For non-incidental spills/release:

- ◆ The Contractor shall immediately report the spill/release to the Medical Center's Environmental Health & Safety (EH&S) Department who will advise you on the need for initiating contact with spill response vendors.
- ◆ The Contractor shall follow the steps for incidental spill/releases identified in item (3) above, provided that it is safe to do so.
- ◆ PVAMC's EH&S Department will coordinate ALL reporting to outside agencies and will conduct follow-up written notifications if necessary.
- ◆ The Contractor will conduct an incident analysis and coordinate with the Project Manager and the PVAMC EH&S Department on any actions that are required to prevent recurrence.
- ◆ If it is deemed necessary to engage a professional spill cleanup company, the PVAMC EH&S Department will coordinate the cleanup through the Project Manager.

## 2.4 Pest Control

If a Contractor or his/her employees see evidence of cockroaches, mice, ants or other pests during the course of their work, they must notify the Project Manager immediately. The Contractor shall not use any insecticide products on Medical Center property unless such activities are part of your contracted work and you are specifically trained to do so.

## 2.5 Air Emissions

### *Combustion Units*

*[Combustion units include, but are not limited to, boilers, heaters, emergency generators and kilns.]*

“Incidental” spills meet ALL of the following criteria: 1) personnel are familiar with the hazards associated with the spilled material; 2) containment/response does not pose potential health and safety hazards (e.g. fire, explosion or chemical exposure); 3) a small quantity (less than 10 gallons) of material is spilled/release which DOES NOT reach the environment or pose potential health and hazardous; and 4) spilled/release material can be readily absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate area or by maintenance personnel.

“Non-incidenta” spills include 1) major spills/release (e.g. greater than 10 gallons) that do not reach the environment or 2) any amount of spilled material that escapes to the environment (including drains, sumps, soil, etc.).

All Contractors must immediately report the following to the Project Manager:

- Any maintenance or repairs to a combustion unit that could result in a change in maximum heat input value or overall emissions (e.g. burner replacement or fuel conversions)
- Any conditions discovered which could have resulted in an increase on air pollutant emissions.

*CFC Containing Units [CFC containing units include those containing any ozone depleting refrigerants including, but not limited to, Chlorofluorocarbons (CFC) and Hydrochlorofluorocarbons (HCFC).]*

Contractors shall immediately notify the Project Manager whenever they become aware of any unintentional or intentional release of CFCs above de-minimis levels as established by EPA regulators.

Contractors shall provide the following documentation to the Project Manager:

- EPA certifications for any reclaimers to which CFC products evacuated from Providence VAMC systems are to be sent.
- Certifications for any CFC recycle/recovery equipment to be used at PVAMC
- Technician Certifications
- Service records for all units containing greater than 50 pounds of refrigerant. Records must include the date and type of service and the type and quantity of refrigerant added.

Contractors shall immediately notify and provide documentation to the Project Manager whenever:

- A leak rate equals or exceeds 35% per year for commercial/industrial processes
- A leak rate equals or exceeds 15% per year for comfort cooling processes
- A release occurs of >100 pounds in a 24 hour period for CFC-12, CFC-113 and R-500. Halon Service providers shall immediately notify the Project Manager whenever it becomes aware of any unintentional or intentional release of halon.

## 2.6 Stormwater and Wastewater

### Stormwater

Projects that disrupt over one (1) acre of land must adhere to the EPA’s Phase II stormwater requirements.

These projects are required to obtain a NPDES permit and implement best management practices. The Contractor is responsible for obtaining such permits before the start of work.

### Wastewater

Providence VAMC’s wastewater discharge is regulated by Narragansett Bay Commission (NBC). The discharge of any wastewater must adhere to these permit requirements. These include but are not limited to:

- No discharge of mercury, silver or other metal-bearing wastewater
- No discharge of highly corrosive substances (5 < pH > 10.5)
- No discharge of flammable materials that could create a hazard for Providence VAMC personnel these are the only references that will be noted in the policy. or NBC treatment works personnel.

1.0 The Contractor must identify all wastewater streams for the Project Manager and obtain approval for drain discharge.

## 2.7 Biological/Chemical/Radioactivity Hazards

Some Providence VAMC operations involve the use of biological, chemical, or radioactive material that can be hazardous to PVAMC's visitors, patients, or employees if not handled safely. Areas where work with biological, chemical, or radioactive materials is being performed will be marked with appropriate signs.

Do not enter these areas and do not handle hazardous biological, chemical, or radioactive material unless it is part of your contracted work and you are specifically trained to do so.

## 2.8 Asbestos Containing Materials

Providence VAMC will have determined, before work is begun, the presence, location, and quantity of asbestos-containing or potentially asbestos-containing materials that would be specifically impacted by the work of your contract. The Providence VAMC Project Manager will provide a specific asbestos audit report for those work areas in question. The contractor shall not disturb asbestos-containing materials unless such activities are part of your contracted work and you are specifically trained to do so. Asbestos abatement contractors should coordinate with the Project Manager and the Medical Center's EH&S Department for specific requirements for asbestos abatement work.

The Contractor shall not disturb, damage or otherwise handle any *suspect* asbestos containing material. It is recommended that the following suspect materials be assumed to contain asbestos:

Cement Pipes, High Temperature Gaskets, Electrical Wiring Insulation

Cement Wallboard, Lab Hoods/Benches/Gloves, Chalkboards

Cement Wallboard, Fire Blankets/Curtains/Doors, Roofing Shingles and Felt

Flooring, Backing, Elevator Equipment Panels, Base Flashing

Construction Mastics, Elevator Brake Shoes, Thermal Paper Products

Acoustical Plaster, HVAC Duct Insulation, Caulking/Putties

Decorative Plaster, Boiler Insulation Adhesives

Textured Paints/Coatings, Breeching, Insulation, Wallboard

Ceiling Tiles and Lay-in Panels, Pipe Insulation, Joint Compound

Spray-applied Insulation, Cooling Towers, Vinyl Wall Coverings

Blown-in Insulation, Electrical Cloth, Asphalt Floor Tile

Fireproofing Materials, Heating and Electrical Ducts, Vinyl Sheet Flooring

Taping Compounds, Electrical Panel Partitions, Vinyl Floor Tile

Packing Materials (wall/floor penetrations), Ductwork, Flexible Fabric, Connectors, Spackling Compounds

The Contractor shall not sweep, dust, vacuum or mop dust or debris that is the product of a suspect asbestos containing material. The Contractor shall also not pick up or throw away any suspect asbestos-containing waste or trash. If it material that is suspected to be asbestos-containing is disturbed and becomes airborne, the Contractor shall immediately notify the Project Manager.

If it is part of the Contractor's work, stripping of floor finishes shall be done using low abrasion pads at speeds lower than 300 rpm and wet methods shall be used. The Contractor shall take care not to overstrip floors and shall stop stripping immediately upon removal of the old surface coat. Sanding of flooring material is strictly prohibited unless it is part of your contracted work and you are specifically trained to do so.

Any suspect asbestos containing material that is observed by the Contractor to be crushed, ripped, broken or in any way damaged should be reported to the Project Manager immediately.

Contractors must, within 24 hours, convey to the Providence VAMC Project Manager any information they newly discover concerning the presence, location and quantity of asbestos-containing or potentially asbestos-containing materials.

## 2.9 Lead Paint

Unless the Providence VAMC Project Manager provides a specific lead-paint inspection, Contractor's should assume that any painted surface they come in contact with is coated with lead-based paint.

Therefore, Contractor's should not perform any intrusive, dust-generating work on painted surfaces (e.g., drilling, cutting, brazing, scraping, demolition), unless the surface has confirmed to be non-lead or unless such work is part of your contracted work and you are specifically trained to do so.

Any painted surfaces that have loose, flaking, chipping or otherwise non-intact paint should not be impacted by the Contractor and should be reported to the Project Manager immediately.

Lead paint abatement contractors should coordinate with the Project Manager and the Medical Center's EH&S Department for specific requirements for lead abatement work. Refer to the section of this manual on Hazardous Waste for guidelines on the proper disposal of lead containing paint.

### 3.0 OSHA SAFETY ISSUES

#### 3.1 Hazardous Materials and Hazard Communication

##### Hazardous Materials

- Do not handle or use hazardous materials without training by your company's representative.
- No solvents, paints, or similar flammable, toxic, or irritating materials may be used in areas occupied by Providence VAMC employees, visitors, or patients unless specifically approved in writing by the Providence VAMC Project Manager.
- Maintain adequate ventilation when paints or solvents are used.
- Use flammable solvents and materials with extreme caution.
- Store flammable paints and solvents in approved flammable liquid storage cabinets if inside buildings.

##### Hazard Communication

The Contractor shall submit an inventory of all hazardous chemicals that are brought on-site with accompanying Material Safety Data Sheets to the Project Manager. The Contractor shall also ensure that all containers that are brought on site for the storage of hazardous chemicals (e.g., gas, paint, etc.) are labeled and inspected in accordance with all applicable regulations. The Contractor shall remove all hazardous chemicals that it brings on-site when work involving a specific hazardous chemical is complete.

The Contractor may request and review Material Safety Data Sheets for any chemicals that are encountered on Medical Center property during the performance of its work.

#### 3.2 Confined Space Entry

##### Background

Providence VAMC has developed and implemented a Confined Space Entry Program to protect all Medical Center employees who are required to enter confined spaces. PVAMC's complete written program is available for review upon request to the Project Manager.

This Medical Center-wide program defines a "Confined Space" and an "Enclosed Space" in accordance with 29CFR §§ 1910.146 and 1910.269, respectively. Entrance into any of these spaces by a Contractor requires adherence with all applicable regulations as well as with certain Medical Center protocols as defined further below.

As part of the Confined Space Entry Program, the Medical Center performed hazard assessments, developed inventories and posted all confined and enclosed spaces at the point of entry. These postings include information on the classification of the space (e.g., "Permit Required", "Non-permit Required"), the confined space ID number, the location, the known hazards, and the minimum personal protective equipment needed for entry. Where available the Medical Center's experience with the confined space is also included on the signage. The Medical Center Confined Space Inventory and hazard assessment forms are available for review.

##### Requirements

- The Contractor is responsible for developing, implementing and maintaining his/her own Confined Space Entry Program, including provisions for emergency rescue in accordance with OSHA regulations as it applies to the work of this contract.
- If during the course of its work, the Contractor encounters a confined space that has not been previously identified by the Medical Center, it must immediately bring the space to the attention of the Project Manager and delay entry until Providence VAMC has examined the space.
- When both Medical Center personnel and Contractor personnel are working in or near confined spaces, the Contractor shall coordinate all operation with the affected Medical Center personnel before entry.
- Advance notification is always required. Whether you enter a confined space with a PVAMC employee or not, the Contractor's entry attendant must always first *inform* the Providence VAMC Project Coordinator *before* you enter a confined space.

The Contractor shall provide the Project Coordinator with:

- The exact location of the confined space and confined space ID number;

- The time of entry and approximate entry duration; and
- The names of authorized attendants and entrants.
- *After the entry:* If you have entered a “permit-required” confined space, you must, after the entry is concluded, notify Providence VAMC Project Coordinator of (1) the permit space program you followed and (2) any hazards you confronted or created in the space.

### 3.3 Lockout / Tagout

Providence VAMC protects its patients, visitors, employees, neighbors and property in part by complying with 29 CFR 1910.147 – Control of Hazardous Energy Sources (Lockout/Tagout). As part of PVAMC’s Lockout/Tagout Program, standard locks and tags are used to control the start-up of equipment that is being serviced or maintained by its employees. At no time shall the Contractor or its employees override any locks or tags that they encounter during the performance of its work.

The Contractor is responsible for developing; implementing and maintaining his/her own Lockout/Tagout Program in accordance with OSHA regulations as it applies to the work of this contract. The Contractor shall submit a copy of its Lockout/Tagout Program to the Project Manager or Property Manager before the start of any work where 29 CFR 1910.147 is applicable. The only purpose of this submission is to ensure that, for the safety of PVAMC’s students, faculty, employees, neighbors or property, the Contractor’s Lockout/Tagout procedures are consistent with restrictions and prohibitions of PVAMC’s Lockout/Tagout program.

- Providence VAMC Engineering and Utilities will shut down and start up utility systems.
  - The Contractor will maintain a log of all machines and equipment that are locked out and/or tagged out during the performance of the work of this contract. This log shall identify the equipment that was worked on, the date that work was performed, and the name of the individual performing the work.
- The Contractor will submit this log to the Project Manager on a monthly basis when Lockout/Tagout work is being performed.

### 3.4 General Electrical Safety

- Only qualified electricians are permitted to work on electrical systems and equipment that uses or controls electrical power.
- Do not operate electrical tools or equipment in wet areas or areas where potentially flammable dusts, vapors, or liquids are present, unless specifically approved for the location.
- Should a circuit breaker or other protective device “trip,” ensure that a qualified electrician checks the circuit and equipment and corrects problems before resetting the breaker.
- Erect barriers and post warning signs to ensure non-authorized personnel stay clear of the work area.
- Report hazards (lack of protective guards or covers, damaged equipment, etc.) to the PVAMC Medical Center Project Manager immediately.
- Do not leave electrical boxes, switch gear, cabinets, or electrical rooms open when not directly attended. Insulate energized parts when covers have been removed or doors are ajar. Use of cardboard, plywood, or other flammable materials to cover energized circuits is prohibited.

### 3.5 Compressed Gas Cylinders

Compressed gases can pose a severe hazard to PVAMC’s patients, visitors, employees, neighbors and property. Therefore, the following measures must be taken for their protection:

- Valve protection caps must be in place when compressed gas cylinders are transported, moved, or stored.
- Close cylinder valves and replace valve covers when work is complete and when cylinders are empty or moved.
- Secure compressed gas cylinders in an upright position in a welding cart or to a solid object (using chains, straps, or a rigid retaining bar). Secure compressed gas cylinders on an approved carrier while being transported.
- Keep cylinders at a safe distance or shielded from welding or cutting operations. Do not place cylinders where they can contact an electrical circuit.

- Keep oxygen and flammable gas regulators in proper working order and a wrench in position on the acetylene valve when in use. If not manifolded together, separate oxygen and flammable gas cylinders by 20 feet or a 5 foot high fireproof barrier.
- If a leak develops in a cylinder and it cannot be immediately corrected, move the cylinder to a safe location outside the building.
- Use only approved spark igniters to light torches.
- Cylinders must not be taken into or stored in confined spaces, including gang boxes and office/storage trailers.
- Do not store hoses and regulators in unventilated or closed containers or areas.
- Do not leave behind partially filled or empty cylinders. Always remove them from the site.

### 3.6 Powder-Actuated Tools

Powder-actuated tools can pose hazards to PVAMC's patients, visitors, employees, neighbors and property. Such tools are, therefore, not permitted in occupied Providence VAMC buildings without the approval of the PVAMC Medical Center Project Manager. In addition:

- Contractor's who operate powder-actuated tools must be properly trained in their use and carry a valid operator's card provided by the equipment manufacturer.
- Each powder-actuated tool must be stored in its own locked container when not being used.
- A sign at least 7 inches by 10 inches with bold face type reading "POWDER-ACTUATED TOOL IN USE" must be conspicuously posted when the tool is being used.
- Powder-actuated tools must be left unloaded until they are actually ready to be used.
- Powder-actuated tools must be inspected for obstructions or defects each day before use.
- All Powder-actuated tool operators must have and use appropriate personal protective equipment such as hard hats, safety goggles, safety shoes and ear protectors.

### 3.7 Welding, Cutting, and Brazing Hot Work Permit

- Obtain a permit from the Project Manager for each separate work activity and ensure that all conditions of the permit are met at all times. The permit must be obtained from the Contract Coordinator prior to the start of any welding/cutting/brazing work. In addition, the Contractor must also maintain its own hot work permit system in accordance with OSHA regulations.
- Remove combustible materials from the area before beginning work.
- Elevate oxygen/acetylene hoses seven feet above the work area or otherwise protect them from damage.
- Install anti-flash back (safety/check) valves in both the oxygen/acetylene hoses at the regulator.
- Shield adjacent areas with welding partitions.
- Have a second person stand by with an approved fire extinguisher for welding and burning operations in accordance with OSHA regulations and permit requirements. This person should remain in the area for a minimum of 30 minutes after the hot work is completed to ensure the site is cold.

### 3.8 Cranes and Rigging

Each crane, rigging, or hoist brought onto Providence VAMC property must have an annual inspection performed by a certified testing agency. Before operations begin on site, documentation, including a log book, must be provided to Providence VAMC Project Manager or its designee.

The operator is responsible for the proper placement of the crane in relationship to the load to be handled and the landing area so as to obtain the best rated lift capacity, and the installation and maintenance of crane swing radius protection.

All operators must possess a valid R.I. hoisting license. Documentation of this license shall be provided to the Providence VAMC Project Manager. At no time shall loads be hoisted by a non licensed operator.

### 3.9 Miscellaneous Additional Safety Rules for the Protection of PVAMC Patients, Visitors, Employees, Neighbors and Property

- Do not perform work over the heads of people or leave tools or equipment overhead.
- Isolate your work area with safety markers, tape barriers, blinker lights, etc.

- Report unsafe acts or conditions to your supervisor.

## Appendix E

VA MEDICAL CENTER  
PROVIDENCE, RHODE ISLAND

POLICY MEMORANDUM 138- 11  
September 12, 2011  
(138)

### FIRE WALL/SMOKE BARRIER PENETRATION PERMITS

#### 1. PURPOSE

To establish policy and procedures regarding penetrations in ceilings, floors, pipe chases, fire walls, and smoke barriers for the purpose of maintaining the integrity of the Type II-222 construction as required in NFPA 101, Chapter 8 and the Joint Commission to provide for the safety of occupants during fire incidents. (The equivalent Construction Type per ICC Building Code is Type 1B).

#### 2. POLICY

All penetrations made in floors, fire barriers, and smoke partitions for the purpose of installation/removal of pipe, conduit, cable, ductwork or other modifications including incidental damage, or the removal of such items, will be repaired and fire-stopped upon the completion of the work, and documented as repaired. This policy applies to all vertical and horizontal penetrations and to all medical center staff and contractors.

#### 3. DEFINITIONS

a. Penetrations are any holes, openings, or faults created in a fire barrier or smoke partition that compromises the integrity of the smoke or fire rating of the penetrated structure.

b. Fire stopping materials are any materials used to replace or repair any penetrations. Materials used must meet specifications and tested assemblies by FM (Factory Mutual) or UL (Underwriters Laboratory) that ensure the original integrity and rating of the penetrated surface will be restored.

c. Fire barriers are floor/ceiling assemblies, and walls, including supporting construction, that meet the conditions of acceptance of NFPA 251, Standard Methods of Tests of Fire Endurance of Building Construction and Materials. Fire barriers are designed to form fire compartments and are constructed to be continuous from outside wall to outside wall, floor to floor or ceiling, from one fire barrier to another, or a combination thereof, including continuity through concealed spaces.

d. Smoke barrier is a continuous membrane designed and constructed to restrict the movement of smoke. Smoke barriers are designed to form smoke compartments and are constructed to be continuous from outside wall to outside wall, floor to floor or ceiling, from one fire or smoke barrier to another, or a combination thereof, including continuity through concealed spaces.



e. Submittals are manufacturer's literature, data, installation instructions, and detail drawings for each type of penetrating item and the construction of the barrier it is passing through, indicating the type of fire-stopping and/or smoke stopping material used. Manufacturer's details shall indicate the listing number given by FM, or UL for each fire-stopping system. Alternate submittals can be a Certified Laboratory test report for ASTM E814 test of systems not listed by FM or UL. (ASTM E814 is the Standard Test Method for fire tests of through penetration fire stops). Another type of submittal is a written Manufacturer's Engineering Judgment, derived from a similar UL system, that a modified design meets the required protection level of a UL listed test.

f. Products used are either factory built fire-stop devices or field erected through penetration fire-stop systems to form a specific listed fire-stop system that will maintain the required integrity of the fire or smoke barrier and stop the passage of gases or smoke. Through penetration fire-stop systems and fire-stop devices, tested in accordance with ASTM E814 or UL1479 use the "F" or "T" rating to maintain the same rating and integrity as the fire barrier being sealed. "T" ratings are not required for penetrations smaller than or equal to 4 inch nominal pipe or 16 square inches over all cross sectional area. Products requiring heat activation to seal an opening by its intumescence shall exhibit a tested and demonstrated ability to function as designed to maintain the fire or smoke barrier. Fire stop sealants used for fire-stopping or smoke sealing shall have the following properties:

- (1) Contain no flammable or toxic solvents;
- (2) have no dangerous or flammable out-gassing during the drying or curing of products;
- (3) water resistant after drying or curing and unaffected by high humidity, condensation or transient water exposure;
- (4) when used in exposed areas, shall be capable of being sanded and finished with similar surface treatments as used on the surrounding wall, ceiling or floor surface, and
- (5) materials shall be asbestos free.

g. Fire stopping system or devices used for penetrations by glass pipe, plastic pipe or conduits, unenclosed cables, or other non-metallic materials shall have the following properties:

- (1) Classified for use with the type of penetrating material used, and be asbestos free.
- (2) Penetrations containing loose electrical and/or computer data cables, and other non-metallic communication cables shall be protected using fire-stopping systems that allow unrestricted cable changes without danger to the seal.
- (3) Intumescent products which would expand to seal the opening shall act as a fire, smoke, toxic fume and water sealant.
- (4) Products used shall have a maximum flame spread of 25 and smoke development of 50 when tested in accordance with ASTM E84. and shall be FM or UL rated or tested by an approved laboratory in accordance with ASTM E814.

#### 4. MEMBERSHIP

None.

#### 5. PROCEDURES

a. Prior to performing any firestopping, submit for approval all product data drawings and installation instructions, as required by "Submittals" after examining the Contract Documents and performing an on-site careful examination of the areas to receive fire-stopping. If there is any doubt about the location of fire or smoke rated partitions, request or refer to information contained in the current SOC (Statement of Condition) drawings that are available in the FMS office. In all cases when a ceiling, floor, wall or partition designated as a fire or smoke barrier is compromised for the purpose of installation, repair, or other modification, the following steps are required:

(1) All penetration contracted work, including Information Resource Management (IRM) projects, is to be submitted and approved by Facilities Management Service's Project Manager or FMS Maintenance & Operations or the Safety Manager.

(2) A penetration permit must be secured from a FMS Project Manager or FMS Maintenance & Operations Supervisor prior to disturbing the integrity of any wall or floor/ceiling barrier. The permit must be available for inspection at the subject location. (See Attachment A).

(3) Provide temporary fire-stopping, smoke seal and waterproofing of all penetrations in smoke and fire rated floor and wall assemblies immediately following core drilling or cutting if permanent work and fire-stopping measures will follow at a later time.

(4) Where penetrations are created in existing floors and/or partitions, they shall be temporarily fire-stopped by the close of construction each day. In the case of major projects requiring the prolonged existence of floor and/or partition openings, temporary fire-stopping shall be provided at the end of each work day. Temporary fire-stopping may constitute a single layer of fire rated gypsum board secured in place over the opening or mineral fiber may be placed in the opening. Fiber thickness shall be sufficient to meet or exceed the inherent fire resistance rating of the building material being penetrated and shall be secured in place with non-combustible material or fasteners.

(5) After the final work is completed, the penetration must be fire-stopped according to the submitted and approved UL or FM listed through penetration fire-stopping materials or system that meet the original smoke barrier or fire rated construction requirements.

(6) Upon completion of any penetration repair, a visual inspection for approval shall be requested from and completed by a FMS Project Manager or FMS Maintenance & Operations Supervisor.

(7) After completion of the field inspection, the completed permit will be signed by the Contractor/Installer and the inspecting FMS Project Manager or FMS Maintenance Supervisor.

That signed document shall then become the official Document or Record and be distributed as indicated on the Permit Form.

## 6. RESPONSIBILITY

a. It is the responsibility of the Project Section/FMS Maintenance/Safety to ensure that penetration permits are issued and final inspections are conducted. Any deficiencies found remaining will be discussed with the COTR and remedied by the fire-stop installer.

b. Chief, Facilities Management Service is responsible for ensuring that any Providence VA Medical Center staff making penetrations into fire and/or smoke barriers shall secure penetration permits prior to beginning work, properly fire-stop the wall/ceiling/floor penetration, and sign off the permit after inspection and completion of the work.

c. Contractors are responsible for assuring that they properly fire stop any penetrations that they made in ceiling, floor, pipe chases, fire rated walls, and smoke barriers in accordance with submitted and approved fire-stop materials and/or systems.

d. Contracting Officer Technical Representatives (COTR's) are responsible for ensuring that all Contractors and FMS personnel adhere to this policy during construction, renovation or demolition activities, including pulling electrical and/or data cables. The COTR is also responsible for verifying that all holes and penetrations made during the construction activities are properly sealed. The COTR is also responsible for ensuring that this memorandum is properly inserted in applicable Contracts and Work Orders issued by Facilities Management Service.

## 7. REFERENCES

NFPA 101, Chapter 8, dated 2009.

## 8. RESCISSIONS

Policy Memorandum 138-11 Fire Wall/Smoke Barrier Penetration Permit, dated April 17, 2008.

VINCENT NG  
Medical Center Director

Attachments: A - Fire/Smoke Wall Penetration Permit

DISTRIBUTION: D

PM 138-11

ATTACHMENT A

FIRE/SMOKE WALL PENETRATION PERMIT

Contractor/ FMS Dept/ VA Service (IRM): \_\_\_\_\_

Responsible Person for Request (Firm/Dept/Person): \_\_\_\_\_

Location of Penetrations (Bldg/Floor): \_\_\_\_\_

Work Narrative (Project No./Purpose): \_\_\_\_\_  
\_\_\_\_\_

Before issuing a Fire/Smoke Wall Penetration Permit, the FMS Project Manager or FMS Maintenance/Safety Section shall review the following checklist with the Permit requesting Responsible person for compliance. (Contractor to be reminded that all penetrations shall be temporarily fire stopped at close of each work day).

Question	Yes	No	N/A
Did the responsible person (indicated above) obtain prints of SOC Plans from FMS or Maintenance Section PM, and/or Project Plans detailing hourly rated walls and smoke barriers in the building; and have they thoroughly identified the scope of the fire stop work?			
Is the manufacturer's UL or FM (fire sealant ) product application guide for each type of wall or floor construction penetrated by each type of utility element been submitted, approved, and available for on-site review by installers and inspectors?			
Has the Responsible person (indicated above) prepared an itemized schedule of floor and fire/smoke walls to be penetrated indicating the UL or FM system to be used?			

Materials utilized in repair: Fire stopping materials / UL or FM System Number(s) / Attach Submittals:

\_\_\_\_\_  
\_\_\_\_\_

Wall Board Type &amp; number of layers (if used): \_\_\_\_\_

Other :(Manufacturer's Engineering Judgment):Attach Submittal:\_\_\_\_\_

Approving Official / Project Manager: \_\_\_\_\_ Date: \_\_\_\_\_

After penetrations are sealed, FMS or Maintenance Department Project Manager, and/or PVAMC Safety Officer and the installer (GC) Responsible person shall inspect the area to ensure compliance with the required standards, make any corrections, and sign-off on the lines below.

Signature of Responsible Person Filing for Permit: \_\_\_\_\_

Signature of FMS or Maintenance Dept PM: \_\_\_\_\_

Signature of COTR: \_\_\_\_\_

Submit fully signed copies to Contractor, COTR, PVAMC Safety Officer, and FMS or Maintenance Project Manager & Operations Supervisor.

## APPENDIX F

VA MEDICAL CENTER  
PROVIDENCE, RHODE ISLAND

FACILITIES MANAGEMENT SERVICE  
FMS/SOP#12  
August 30, 2011

### LOCKOUT / TAGOUT PROCEDURE

#### 1. PURPOSE

To establish procedures for the Lockout/Tagout (LOTO), of energy isolating devices. The procedures will be used to ensure that the machine or piece of equipment is isolated from all potentially hazardous energy. This includes LOTO by employees performing service or maintenance related activities; where the unexpected energization, start-up or release of stored energy could cause injury.

#### 2. POLICY

- a. It is the policy of Facilities Management Service, that FMS Employees are instructed in the safety significance of the LOTO procedures, as well as how to use those procedures. Only Authorized Employees may LOTO machines or equipment.
- b. Every new employee and FMS employee whose work operations are or may be in a LOTO area will be instructed in the purpose and use of the LOTO procedure. Affected Employees will be notified by the Authorized Employees whenever a LOTO will occur, as well as when the equipment is being placed back in service.
- c. VAMC FMS Personnel will initiate all utility and equipment LOTO with VA LOTO devices. Contractors will add their LOTO padlock to the device or lockbox as appropriate.

#### 3. DEFINITIONS

- a. LOCKOUT/TAGOUT: shall mean the procedure of properly and safely securing equipment or systems administratively (tags, instructions, etc.) and physically (mechanical, electrical or pneumatic devices) or a combination of both.
- b. AUTHORIZED EMPLOYEE: Employee trained and determined competent to effectively de-energize and LOTO machinery/equipment.
- c. AFFECTED EMPLOYEE: Employee that can not perform a LOTO, but is exposed to LOTO when the employee's or surrounding machinery/equipment is under LOTO.

#### 4. PROCEDURES

- a. Preparation for LOTO:
  1. Obtain the proper Hazardous Energy Control Procedure (Attachment 1) for the equipment or machine to be LOTO. Determine if changes need to be made to the procedures based on changes to the equipment and/or personnel. If a procedure is not written use Attachment 1 to prepare the procedure prior to proceeding with the LOTO.
  2. Locate the LOTO Permit, (Attachment 2).
  3. Locate the ENERGY LOCKOUT INDEX (Attachment 3) located in the LOTO 3-ring binder in the Lockout Locker. (File attachments 1 & 2 in the LOTO binder in the "ACTIVE LOTO" section after filling them out.)
  4. Identify all Affected Employees that may be involved in the impending LOTO.
  5. Obtain necessary locks and/or tags and devices to implement the LOTO.
- b. Sequence of LOTO System Procedure:
  1. Fill out the ENERGY LOCKOUT INDEX (Attachment 3), located in the LOTO Binder.
  2. Fill out the LOTO PERMIT (Attachment 2), sections 1, 2, & 3.

3. Make a copy of an existing LOTO HAZARDOUS ENERGY CONTROL SPECIFIC INSTRUCTION (Attachment 1) or fill out a blank form with all required information.
4. Notify all Affected Employees that a LOTO is going to be utilized and the reason thereof. The Authorized Employee shall know the type and magnitude of energy that the machine or equipment utilizes and shall understand the hazards thereof.
5. If the machine or equipment is operating, shut it down by the normal stopping procedure (depress stop button, open toggle switch, etc.).
6. Operate the switch, valve, or other energy isolating device(s) so that the equipment is isolated from its energy source(s). Stored energy (such as that in springs, elevated machine members, rotating flowwheels, hydraulic systems, and air, gas, steam or water pressure, etc.) must be dissipated or restrained by methods such as repositioning, blocking, bleeding down, etc. .
7. LOTO the energy isolating devices with assigned individual lock(s) and tag(s).
8. After ensuring that no personnel are exposed, and as a check on having disconnected the energy sources, operate the push button or other normal operating controls to make certain the equipment will not operate.  
CAUTION: Return operating control(s) to "neutral" or "off" position after the test (de-energized state).
9. The equipment is now LOTO.

c. Restoring Machines or Equipment to Normal Production Operations:

1. After the servicing and/or maintenance are completed, equipment is ready for normal operations, check the area around the machines or equipment to ensure that no one is exposed.
2. After all tools have been removed from the machine or equipment, guards have been reinstalled and employees are in the clear, remove all LOTO devices. Operate the energy isolating devices to restore energy to the machine or equipment.
3. Complete Attachments 1, 2 & 3 and file in the "Completed Lockouts" section of the Lockout Binder.

d. Procedure Involving More Than One Person

1. One Authorized Employee will be designated as responsible for the LOTO.
2. The Hazardous Energy Control Procedure (HECP) will be reviewed with each group member.
3. If more than one Facility Management Section or contractor is involved, one Authorized Employee will coordinate the LOTO to ensure that all control measures are applied and that there is continuity of protection for the group.
4. Each Authorized Employee or contractor will affix the LOTO pad lock to the group lockout. Each pad lock must be identified to the person applying it. Authorized Employee or contractor will remove their LOTO device/padlock when they stop working on the equipment or machine being serviced. Outside personnel or contractors involved in operations relating to equipment or machinery lockout that affects our employees, must submit their energy control procedures to the project engineer. Affected Employees must be trained and notified as outlined in this written program. The responsible supervisor for the affected area will ensure that outside personnel and Affected Employees are informed of the proper procedure.

e. Basic Rules for Using LOTO System Procedure.

1. All equipment shall be LOTO to protect against accidental or inadvertent operation when such operation could cause injury to personnel. Do not attempt to operate any switch, valve, or other energy isolating device where it is LOTO. Violation of the LOTO can result in disciplinary action.
2. It is the policy of the Facilities Management Service that VA in-house personnel will NOT perform work on equipment that has not had the electrical service LOTO. If circumstances require that work be performed with live electrical connections the work will be contracted out.

#### 4. TRAINING

- a. Training will be the responsibility of the Supervisor's within Facility Management Service with assistance from the Environmental Safety & Health Department.
- b. Affected and Authorized employee training will consist of at least the following elements:
  1. Review of OSHA Standard 29CFR 1910.147 "The Control of Hazardous Energy" requirements.
  2. Type and magnitude of energy sources.

3. Purpose and use of the Hazardous Energy Control Procedures.
4. Nature and limitations of tags.
5. How to isolate equipment/machinery for LOTO.
6. Conditions for restoring machinery/equipment and removing tags.
- c. The LOTO Training will be given to Affected Employees as part of orientation.
- d. Authorized Employees will receive training prior to their initial involvement with any LOTO operation.
- e. Retraining will be given for Authorized and Affected Employees whenever there is a change in job assignment, a change in machines, or equipment or process that presents a new hazard or a change in the Facilities Management Hazardous Energy Control Procedure.
- f. A list of names and dates of training will be kept by the Facilities Management Service's Education Tracking Coordinator.

5. ANNUAL INSPECTION

- a. Each year the Environmental Safety & Health Department will conduct an inspection of the FMS Maintenance LOTO Program.
- b. This will be accomplished by reviewing the LOTO Binders in B-1, B-6 and B-10. The inspection will include the LOTO Cabinet with the various LOTO Devices. Active LOTO's sites will be visited accompanied by a FMS representative to verify the Hazardous Energy Control Procedure (HECP) was implemented.
- c. When LOTO is used the HECP will be reviewed with each Authorized Employee.
- d. This will be certified by the designated ES&H inspector on an annual basis. The documentation should include employee names, dates of the inspection, and the Annual Lockout/Tagout Assessment Form (Attachment 4) used.

6. RESPONSIBILITY

- a. The Chief, Facilities Management Service is responsible for the administration of the maintenance LOTO Program.
- b. The Project Engineer is responsible for ensuring that the contractor personnel are thoroughly familiar with and comply with this policy.
- c. Facilities Management Service Supervisors are responsible for their personnel's familiarization and strict compliance with this policy and shall ensure that their personnel have available and utilize proper locks, blocks, danger tags, and protective equipment.

7. REFERENCES

NFPA-70E, Electrical Safety Requirements for Employee Workplaces.  
OSHA Standard 29 CFR 1910.147

8. RESCISSION

Facilities Management Service Policy Memorandum #05, Lock/Out Tag/Out Procedures,  
Dated July 14, 2003.

JOHN J. BELIVEAU

Chief, Facilities Management Service

Attachments (4)

Distribution: Engineering Section Employees



## APPENDIX G

VA MEDICAL CENTER

FACILITIES MANAGEMENT SERVICE

PROVIDENCE, RHODE ISLAND

SOP POLICY MEMO 138-16

May 15, 2012

### CRANES

#### 1. PURPOSE

The purpose of this memorandum is to establish procedures for the use of cranes at this facility. The procedures will be used to ensure that the lifting of loads above the ground surface is performed in a safe manner and fully informs facility staff of the details of the lift to be performed using a crane. This policy also defines responsibilities for these procedures.

#### 2. POLICY

- a. It is the policy of Facilities Management Service that all work with cranes shall be performed in a manner in strict compliance with construction industry regulations of the Occupational Health and Safety Administration and with the safety guidelines and policies of the Department of Veterans Affairs.
- b. It is the policy of Facilities Management Service that employees and contractors be informed about specific details of crane operations when such crane use is proposed at this facility and that such information be provided to the facility staff by the crane user prior to use of a crane at this facility.
- c. It is the policy of the Providence VA Facilities Management Service that the requirements stated herein will be enforced.

#### 3. DEFINITIONS

- a. *Crane Operator.* A person who has demonstrated that they are proficient in the operation of the various types of cranes. Certification shall be provided by the employer or an accredited testing agency, such as the National Commission for the Certification of Crane Operators (NCCCO).
- b. *Competent Operator.* A crane operator who:

1. Is capable of identifying existing and predictable hazards with regard to the particular crane being operated.
  2. Is capable of identifying existing and predictable hazards with regard to the hoisting operations being undertaken.
  3. Has the training and experience to properly set up and safely control all crane functions.
- c. *Competent Person.* Per OSHA, one who is capable of identifying existing and predictable hazards in the surroundings; is capable of identifying working conditions that are unsanitary, hazardous or dangerous to employees; and has authority to take prompt corrective measures to eliminate them.
- d. *Controlling Entity.* Contractor or other entity that is in actual control of a project. Could be the General Contractor, Construction Manager, Prime Contractor or the Owner, depending upon the level of control applied with regard to the selection, operation and maintenance of cranes.
- e. *Controlling Supervisor.* The individual who is directly responsible for crane operation and maintenance at a particular project.
- f. *Crane Load Rigger.* A person trained and competent.
- g. *Critical Lift.* A Lift that shall be one that requires a crane to “walk” with a load; or require more than one crane; or one that will be made over an occupied building or facility; or one that exceeds 75% of the crane capacity (taken from block 6 of the Permit Form).
- h. *Critical Lift Plan.* A document that is used to plan crane lifts that have the potential for increased risk. A critical lift plan should detail the weight(s) and dimensions of the load to be hoisted; the path of travel of the load, including various height and clearance dimensions; the maximum radius or radii at which the load will be hoisted; and the exact configuration of the crane(s) to be used. Load charts for the make, model, serial number and configuration of the crane(s) shall be attached.
- i. *Maximum Intended Load.* The heaviest load that a crane’s capacity chart shows it is capable of lifting in a given configuration and radius.
- j. *Qualified Person.* By possession of a recognized degree, certificate or professional standing or by extensive knowledge, training and experience, one who has successfully demonstrated his/her ability to solve or resolve problems relating to the subject matter, the work or the project.
- k. *Signal Person.* A person trained and competent in the application of the type of signals used during a lift, with a basic understanding of crane operation and limitations, including crane dynamics involved in swinging and stopping loads and boom deflection under load.
- l. *Types of Cranes.* Generally mobile cranes, such as crawler cranes, rough terrain cranes, truck cranes, boom trucks and the various other types of mobile cranes generally used on construction

sites.

#### 4. PROCEDURES

- a. OSHA requires a Competent Person to inspect all operational components of the crane on a daily basis. The Competent Person must have received training in the provisions of the OSHA Standard, be capable of understanding the hazards associated with the crane being used and have the authority from the employer to correct and abate any hazard associated with the crane.
- b. The Crane Operator *shall* be certified in the operation of the crane. A certification is determined through a *written test* that the Crane Operator knows the information necessary for safe operation of the specific type of equipment the individual will operate; and the Crane Operator is able to read and locate relevant information in the equipment manual and other materials pertaining to the crane.
- c. A Signal Person shall be used for any crane operation. Each Signal Person should know and understand the type of signals used; be competent in the application of the type of signals used; and have a basic understanding of crane operation and limitations, including the crane dynamics involved in swinging and stopping loads, and boom deflection from hoisting loads.
- d. After assembly on-site, the crane shall have a thorough inspection similar to an annual inspection. A Competent Person shall perform this inspection.
- e. The Crane Operator shall perform a daily visual inspection at the beginning of each shift. All functional operating mechanisms, air and hydraulic systems, chains, ropes, slings, hooks and other lifting equipment shall be inspected. The rated load of each crane shall be plainly marked on both sides of the crane and visible from the ground. Each hoist and sling shall also be marked with the load limit. Unsafe conditions found during the inspection shall be reported to the Controlling Supervisor and shall be corrected before operation is resumed.
- f. A Crane Permit shall be obtained from Facilities Management Service Engineering Section by any party proposing to use a crane at this facility. The permit shall be submitted to the designated Project Manager of the Facilities Management Service Engineering Section and shall not be valid until signed by the FMS Project Manager. The Permit Form to be used is at Attachment "A" to this memorandum.
- g. If any crane operation is determined to be a Critical Lift, the party submitting the Crane Permit shall include with the permit form a Critical Lift Plan that is signed by a registered Professional Engineer.

#### 5. RESPONSIBILITY

- a. The Chief, Facilities Management Service is responsible for the administration of the Crane program.
- b. The FMS Project Manger is responsible for ensuring that contractor personnel are thoroughly familiar with and comply with this memorandum including the required use of the attached Crane Permit Application for all lifts.
- c. The Contractor is responsible for the following:
  - 1. Preparation and submittal to the FMS Project Manager a completed Crane Permit Application with all required information.
  - 2. Provide adequate supervision of all hoisting operations.
  - 3. Ensure that the Crane Operator performs a daily inspection of the crane, including an operational check of all control mechanisms.
  - 4. Determine if the crane operation will be a “Critical Lift” as defined by the evaluation on the attached Crane Permit Application form.
  - 5. Determine, through verifiable methods, the weight(s) of items to be hoisted.
  - 6. Ensure that all parties involved know the weight(s) of the loads to be lifted
  - 7. Ensure that appropriate rigging equipment is available to handle the specified loads
  - 8. Ensure that a qualified Crane Load Rigger is assigned to inspect all rigging equipment and to oversee the rigging of all loads.
  - 9. Ensure that all parties understand the hoisting operations as planned, including the path of travel of all hoisted loads.
  - 10. Determine if outside factors, such as weather, will interfere with the hoisting operations.
  - 11. Ensure that tag lines or other methods are used to maintain complete control of the load at all times.
  - 12. Ensure that persons who are not involved in hoisting operations are not in the path of travel or otherwise endangered by hoisted loads.
  - 13. Ensure that the Signal Person(s) is properly qualified and that the chosen signaling system is appropriate and adequate for the job.
- d. The Crane Operator has the overall responsibility for the lift. Supervisors should never be able to override a Crane Operator’s decision to stop a lift. If an Operator does stop a lift, a full review of all parameters shall be undertaken before operations are resumed.

JOHN J. BELIVEAU

Chief, Facilities Management Service

## ATTACHMENTS

A – Crane Permit



VAMC Providence

May 15, 2012

## Planned Critical Lift Plan & Crane Permit

Permits must be posted at the lift site until work is complete or a new permit is issued. This permit must be reviewed every shift and reissued if a change in conditions (equipment, weather, and/or ground) or scope of work has occurred. Expired permits shall be returned to the VA for filing. This permit and supporting data must be submitted before any of the following lifts are made (check all that apply):

- ☐ A multiple crane lift
- ☐ Personnel Hoisting
- ☐ A non-routine lift of 20 tons or more
- ☐ An expected load lift is 75% or more of the crane's rated load capacity
- ☐ A lift over electrical lines, HVAC piping or operating facilities which may endanger patients and personnel

Description of Proposed Crane Work: (Include # of items to be picked and expected # of days and location)			
Proposed date for lift start:		Expected completion date:	
1. Crane Information			
Make:	Model:	Capacity (tons):	
Total Boom Length:	Will Jib Be Used: (yes or no)	Jib Length:	
Maximum Boom Length Required:		Maximum pick Radius Required:	
<input type="checkbox"/> Verify manufacturer's load chart indicates lifting capacity at stipulated load radius and boom lengths.  Note: If boom length and/or radius is between the stipulated or posted value on the load chart select the next lesser rating capacity. The next lesser rating capacity may be the next longer or shorter boom length.			
2. Outriggers, Pads, and Tires:			
<input type="checkbox"/> Outriggers Fully Extended and Set      Check One: _____ Track    _____ Tires			

☐ Soil Type is Determined to be Acceptable for Imposed Load

☐ VA Engineering has reviewed and determined underground utilities and structures are not at risk for damage.

### 3. Load information

Note: Cranes equipped with computers indicating boom length, angle, and radius are safety devices only and should not be used in place of the operator's responsibility to actually determine the measurements required to calculate a safe lift.

Note: Accessories, Crane Capacity, Parts of Line and Rope Capacity, and the working quadrant of the crane should be considered when calculating Net Crane Capacities.

Description of Maximum load (include Dimensions):

Weight of Max Load:

How was load determined:

### 4. Rigging Information

List all rigging components (Including number, type, size, capacity, etc.) Note – Anti-Two Block device is required:

Weight of Line, Block & All Rigging:

### 5. Total Gross Load

### 5. "Worst Case" Lift Scenario

a) Weight of Max Load:

a) Maximum Pick Radius:

b) Weight of Line, Block & All Rigging:

b) Total Gross Load:

c) Safety Factor Added Weight:

c) Crane Chart Capacity at Max Pick Radius:

d) Total Gross Load:	d) % of Crane Capacity (b/c):	
<b>6. Critical Pick Evaluation</b>		
a) Will crane need to “walk” with loads?	_____ Yes	_____ No
b) Will pick require more than one crane?	_____ Yes	_____ No
c) Will pick be made over occupied building or facility?	_____ Yes	_____ No
d) Does “worst case” lift scenario exceed 75% of crane capacity (5d)?	_____ Yes	_____ No
If the answer to any of the above is “yes” then this is a critical lift that will require additional information and the signature of a licensed professional engineer.		
<b>7. Crane Location Information</b>		
a) Will crane pick affect pedestrian or vehicular traffic? If “yes”, a traffic control plan must be submitted.	_____ Yes	_____ No
b) Are there overhead power lines or other hazards in the lift area?	_____ Yes	_____ No
c) Will load or any part of the crane be over or within 15 feet of electrical lines, pipes, process systems or operating equipment?		
d) Will crane height exceed 120 feet? If “yes” the crane must have a light beacon at the top.	_____ Yes	_____ No
	_____ Yes	_____ No
e) Will crane height exceed 200 feet? If “yes” the FAA must be notified at least 30 days prior.	_____ Yes	_____ No
<b>8. Additional Information (All must be provided)</b>		
a) Plot plan showing crane location, adjacent structures, roadways, utilities, etc. within the swing radius.		
b) Scale elevation sketch or drawing showing crane location, adjacent structures and load.		
c) Applicable crane load charts.		
d) Valid crane operators’ license.		
e) Valid third party annual inspection certificate.		
<b>9. Wind Speed</b>		
a) Lifts are not allowed with wind speed in excess of: _____MPH		
b) Wind Speed at time of lift: _____MPH		

10. Comments, Notes, and Sketches:

12. APPROVALS

The Contractor, Rigger, and Crane Operator are the Competent Persons solely responsible for the safe execution of the lift(s). Execution of the lift will be in complete accordance with OSHA regulations.



## COMPLETE CHECKLIST BELOW TO ENSURE A SAFE LIFT IS PLANNED

- ☐ The load weight is confirmed known
- ☐ The load hook is directly over the load center of gravity
- ☐ Boom angle, boom length, lift radius, and the crane capacity are known
- ☐ Outrigger pads are fully extended and blocking is sufficient for the load
- ☐ Tires are clear of the ground and the crane is level
- ☐ Ground, soil, and/or pavement is confirmed to have capacity for the imposed load
- ☐ Rigging equipment has been inspected and in safe working condition
- ☐ All obstacles and obstructions have been identified
- ☐ Lifts in close proximity to power transmission lines shall meet OSHA 29 CFR 1926.550, MIOSHA R 408.11936, and applicable ANSI B30.5 safety standards
- ☐ A final check will determine the wind speed is within approved limits for this lift
- ☐ A signal method is has been determined between the crane operator and the signalman
- ☐ An individual has been designated to observe for obstructions and unauthorized personnel
- ☐ The crane operator meets OSHA qualifications requirements to operate the crane
  
- ☐ Verify a "competent person" is to inspect prior to use and during use, all slings, fastenings, and attachments for damage or defects. Damaged or defective equipment shall be immediately removed from service.
  
- ☐ Verify a "competent person" is to inspect all crane equipment and machinery prior to use and during use to ensure it is in safe operating condition. Any deficiencies shall be repaired prior to continued use.
  
- ☐ Verify the crane is in compliance with Federal and State regulations requiring frequent, periodic, and annual inspections. A thorough annual inspection has been made by a competent person, government, or private party recognized by the U.S. Department of Labor.

Date of Last Annual Inspection: \_\_\_\_\_ Inspected by: \_\_\_\_\_

## Competent Person:

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Contractor Representative:

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Crane Operator:

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Crane Load Rigger:

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

---

The individuals listed below have reviewed this Permit for completion of the listed requirements only, without regard for accuracy. All responsibility for crane operations rests with the individuals signing the form above this Statement.

VA Project Manager:

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

VA Safety Representative:

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

VA Police (if required):

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## APPENDIX H

VA MEDICAL CENTER  
PROVIDENCE, RHODE ISLAND

POLICY MEMORANDUM 07B-3  
January 03, 2012 (07B)

### REGISTRATION OF PRIVATELY OWNED VEHICLES

#### 1. PURPOSE

To provide for the registration of all staff members and contractor vehicles which are parked or operated on the Medical Center grounds. This program will allow VA Police Officers to identify the ownership of vehicles, monitor and control vehicle parking, enforce applicable traffic regulations and facilitate contact with the owners of vehicles when it is necessary and in the interest of safety, security and legitimate enforcement efforts.

#### 2. POLICY

a. All staff members must register their vehicles with the VA Police Service within 48 hours after their reporting for duty at the Medical Center. Compliance with this policy is a condition of employment.

b. The registration process will include issuance of a numbered VA parking permit. This permit must be displayed on the inside, driver side, lower corner of the windshield or inside, center, of the windshield by the rear-view mirror. Permits may be displayed in any visible location on motorcycles.

#### 3. DEFINITIONS

#### 4. MEMBERSHIP

None.

#### 5. PROCEDURES

a. All staff members and contractor supervisors will complete the vehicle registration form at the time of initial employment or service and will report to the VA Police Service for issuance of a permit. Proof of a valid state vehicle registration and current motor vehicle insurance policy must be provided at the time of registration. Color coded and numbered permits will be issued as follows:

(1) Staff Physicians, the Director and Associate Directors - RED.

(2) Employees - GREEN or Employees in Car Pool Program - BROWN.

(3) Volunteers - YELLOW.

(4) Temporary - BLACK.

(5) Contractor Supervisor - ORANGE (hanging style)

(6) Special Permit- As directed by Police Services.

b. All staff members who have previously registered their vehicles must re-register their vehicle each time any of the following occurs:

(1) Change of state registration plate number.

(2) Change of vehicle.

(3) Loss of permit (i.e., windshield replacement).

c. Vehicle permits are considered a controlled item and as such, must be returned to the VA Police upon completion of a staff member's employment or service at the Medical Center.

d. Handicapped parking spaces, located in all parking lots on Medical Center grounds, may be utilized by any staff member who has been issued a state or VA handicap placard. The placard must be displayed at all times while said vehicles are parked in a handicapped designated space.

(1) Requests for VA handicap placards will be submitted to the Chief, VA Police. The requesting employee will be referred to the Employee Health Clinician for determination of the extent of disability. The Employee Health Clinician will then forward this determination to the Chief, VA Police for determination of issuance or non-issuance of the placard. All VA handicap placards will be issued for a limited period of time. Long term disabilities will require issuance of a state handicap placard. VA handicap placards are considered a controlled item and as such, must be returned to the VA Police.

e. Vendors and contract staff of administrative services are required to obtain a temporary parking placard issued by either the Facilities Management Service or the Police Service.

## 6. RESPONSIBILITY

a. The Human Resources Management Service is responsible for instructing new employees as to this policy and the requirement to respond to the VA Police office to process a vehicle registration form.

b. Service Chiefs/Line Managers are responsible for instructing new volunteers as to this policy and the requirement to respond to the VA Police office to process a vehicle registration form.

c. The VA Police Service is responsible for issuance of all parking permits and placards and maintaining accurate records of all motor vehicles registered at the Medical Center.

d. The Employee Health Clinician is responsible for assisting the Chief, VA Police in determining a staff member's eligibility for issuance of a VA handicap placard for acute or episodic illnesses requiring short-term parking needs.

e. All staff members are responsible for compliance with this policy and notifying the VA Police Service of all incidences of lost, stolen or damaged permits.

## 7. REFERENCES

VA Handbook 0730

## 8. RESCISSIONS

Policy Memorandum 07B-03, Registration of Privately Owned Vehicles, dated August 1, 2009.

VINCENT NG

Medical Center Director

Attachments: None

DISTRIBUTION: D

## SECTION 01 35 33

### INFECTION CONTROL PROCEDURES

#### PART 1 GENERAL

##### 1.1 DEFINITIONS

Construction Type A - Inspection and Non-Invasive Activities. Includes, but is not limited to: removal of ceiling tiles for visual inspection limited to 1 tile per 50 square feet; painting (but not sanding); wall covering; electrical trim work; minor plumbing; and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection.

Construction Type B - Small scale, short duration activities that create minimal dust. Includes, but is not limited to: installation of telephone or computer cabling; access to pipe chase spaces; cutting of walls or ceilings where dust migration can be controlled.

Construction Type C - Any work, which generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies. Includes, but is not limited to: sanding of walls for painting or wall covering; removal of floor coverings, ceiling tiles and casework; new wall construction; minor ductwork or electrical work above ceilings; major cabling activities; and any activity which cannot be completed within a single work shift.

Construction Type D - Major demolition and construction projects. Includes, but is not limited to: activities that require consecutive work shifts; require heavy demolition or removal of a complete ceiling system; and new construction.

Group 1 Lowest Risk Patient Risk Group - Office areas

Group 2 Medium Risk Patient Risk Group - Cardiology, Echocardiography, Laboratories, Nuclear Medicine, Physical Therapy, Radiology/MRI, Respiratory Therapy

Group 3 Medium-High Risk Patient Risk Group - Emergency Room, Day Surgery, Pharmacy, Endoscopy

Group 4 Highest Risk Patient Risk Group - 4B (Hem/Onc Unit), Operating Rooms/Sterile Processing, Cardiac Catheterization & Angiography Areas, Dialysis, ICU/CCU/CVT/CVT-I, Med/Surg Nursing Units, Post-Anesthesia Care Units.

HEPA - High Efficiency Particulate Air

Level of Infection Control - Class I, II, III or IV, as determined from the IC Matrix

## 1.2 DESCRIPTION

The purpose of the infection control procedures are to minimize the risk of infection during construction by maintaining the integrity of the environment, and controlling the spread of dust.

The following Infection Control Matrix defines the matrix of precautions to be implemented for construction, demolition and renovation. Matching the planned construction type with the patient risk group on the matrix defines the minimum level of infection control required (Class I, II, III or IV).

<u>Risk Level</u>	<u>Construction Activity</u>			
	<u>Type A</u>	<u>Type B</u>	<u>Type C</u>	<u>Type D</u>
Group 1 Lowest Risk	Class I	Class II	Class II	Class III/IV
Group 2 Medium Risk	Class I	Class II	Class III	Class IV
Group 3 High Risk	Class II	Class II	Class III/IV	Class IV
Group 4 Highest Risk	Class II	Class III/IV	Class III/IV	Class IV

### Class I:

1. Execute work by methods to minimize raising dust and fumes from interior and exterior construction operations.
2. Water mist work surfaces to control dust
3. Immediately replace a ceiling tile displaced for visual inspection
4. Use travel routes that minimize exposure of patients to construction workers, materials, tools, and equipment.
5. Schedule utility interruptions during periods of low hospital activity.

### Class II: In addition to precautions for Class I:

1. Provide active means to prevent airborne dust from dispersing into the atmosphere.
2. HEPA vacuum upper surfaces of ceiling tiles prior to removal
3. Seal unused doors with duct tape
4. Block off and seal air vents
5. Place adhesive walk-off mats at entrances and exits of work areas.
6. Seal or isolate HVAC system in areas where work is being performed.
7. HEPA vacuum work surfaces and containers before removing from the work area.
8. HEPA vacuum worker clothing, tools, materials and equipment before leaving the work area.

### Class III: In addition to the precautions for Class I and II:

1. Install critical barriers at all openings to the work area



2. Isolate HVAC system in area where work is being done to prevent contamination of the duct system.
3. Maintain negative air pressure within the work site utilizing HEPA-equipped air filtration units.
4. Seal holes, pipes, conduits and punctures within the work area using fire-safe, impermeable materials.
5. Construct anteroom contiguous to the work area and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving the work site.
6. Contain construction waste before transport in tightly covered containers
7. Cover transport receptacles or carts. Tape covering to container to seal all joints.
8. Do not remove barriers from the work area until the completed project is thoroughly cleaned by the VA's Environmental Services Department and inspected by the VA.

Class IV: In addition to precautions for Class I, II and III:

1. No work is permitted in areas occupied by patients.
2. All personnel entering the work site are required to wear head covers, shoe covers, and overalls. Head covers, shoe covers, and overalls must be changed within the anteroom each time the worker exists the work area..

Conduct work by implementing the appropriate level of infection control as required or as noted herein.

### 1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only.

#### SD-06 Test and Inspection Reports

Air sampling results  
Infection Control Compliance Checklists  
Logs of negative pressure measurements for work site;

#### SD-07 Certificates

Employee training;  
VAMC Infection Control Construction Permits; G

### 1.4 QUALITY ASSURANCE

#### 1.4.1 Qualifications

All personnel are required to wear N95 respirators, disposable booties and coveralls when working inside the containment. These are to be removed when exiting the work area.

All personnel are to be trained on infection control procedures and these work procedures.

## 1.5 EQUIPMENT

Fire retardant polyethylene

HEPA filtered vacuum

HEPA filtered negative air machine

Duct tape

Framing and other materials necessary to isolate the work area

Power equipment that generates dust will have dust collection equipment attached.

## 1.6 PROJECT/SITE CONDITIONS

### 1.6.1 Existing Conditions

Perform work without damage or contamination of adjacent areas. Where existing work is damaged or contaminated, restore work to its original condition or better as determined by the Contracting Officer.

## 1.7 SEQUENCING AND SCHEDULING

All work will be coordinated with the hospital infection control office, facility director, safety department, security office and work will not commence until the Infection Control Construction Permit has been approved by VAMC for that specific work area, including designation of the pre-determined debris removal routes.

Any issue that could have impact on VAMC operations must be reported to the VAMC project representative before commencement. This would include containment breeching, loss of negative pressure, releases of dust/debris into uncontrolled interior building areas or other issues that could affect infection control procedures.

Work phasing and breakout of specific work areas shall be in coordination with the Contracting Officers needs and the General Contractor's schedule and not adversely affect the operations of the VAMC in any way.

## PART 2 PRODUCTS

Not Used.

## PART 3 EXECUTION

### 3.1 PREPARATION

Obtain an Infection Control Construction Permit prior to performing any work of construction types A through D as defined above. No work will be allowed to proceed until an Infection Control Construction Permit has been completed and signed and all protective measures required by the permit are in place.

All work shall be accomplished using the controls indicated in the specifications and on the Infection Control Construction Permit for the class of protection required for the work.

Removal of a single ceiling tile in a suspended acoustic ceiling for observation purposes only does not require an infection control construction permit.

Existing air handling ductwork, supply and return grills, and/or HVAC fresh air intakes shall be isolated using air tight seals.

Elevator use must be coordinated with facilities and must not impact VAMC operations. Time and dates of waste load must be identified each day.

### 3.2 ERECTION

Install impervious barriers from floor to ceiling and wall to wall to seal work areas from non-work areas. When work is in an area designated for Class IV protection, double impervious barriers shall be used.

Impervious barriers shall be constructed of non-combustible or fire retardant materials. Barriers shall be minimum one-hour rated construction. Fire retardant polyethylene may be used for impervious (dust) barriers that remain in place for not more than 72 hours. Construct all other barriers of gypsum board (flame spread rating of 25 or less in accordance with ASTM E84) on both sides of metal steel studs. Extend the partitions through suspended ceilings to floor slab deck or roof. Wood framing is not allowed. At door openings, use Class C  $\frac{3}{4}$  hour fire/smoke rated doors and frames with closers.

Critical barriers are to be installed on all doors and windows and other entrances to the work area.

Seal all holes, chases, pipe cavities and other perforations before commencing work. Sealants shall be non-flammable material.

Create a negative pressure work area by installing HEPA filtered negative air machines within the work area to remove dust particles from the air and exhaust to the outside.

Maintain negative pressure of at least -0.02 inches water in all work areas and document compliance.

Construct an entry/exit chamber for decontaminating people and equipment leaving the work area. A HEPA vacuum is required to remove dust from equipment and people leaving the site. Disposable PPE shall be removed prior to exiting the entry/exit chamber.

Adhesive Step-off pads at least 24"x36" are to be located at the exit of the work area before entering the occupied areas of the VAMC.

Vacuum the top surfaces of ceiling tiles using a HEPA vacuum prior to removal of ceiling tiles.

Traffic shall be minimized to/from the work area.

Elevators or stairwells within the work area must be isolated with impervious barriers.

Activities such as cutting, demolishing, and other large dust generating activities shall have work surfaces water-misted prior to impact.

Where powered equipment that generates dust will be utilized, such equipment shall have dust collection equipment attached.

Provide active means to prevent airborne dust from dispersing into the atmosphere.

### 3.3 FIELD QUALITY CONTROL

#### 3.3.1 Inspection

Conduct daily infection control inspections using the VAMC Infection Control Compliance Checklist. Daily inspections shall also be conducted on days when no construction activity is performed. Submit compliance checklist not more than 1 work day after completing an inspection.

Continuously monitor negative pressure levels. Document negative pressure levels at the start of work each day and at 4 hour intervals during each work day. Maintain a written log of negative pressure levels measured to include date and time of the measurement. Submit written log of negative pressure levels weekly and not more than 1 work day after completing the last log entry.

All barriers and HEPA filtered negative pressure are to remain in place until clearance has been obtained from VAMC representatives. This could include the IC Department, Safety Department, and Environmental Services Department.

#### 3.3.2 Tests

VAMC representatives may conduct post abatement and during abatement sampling for dust, mold spores and surface contamination. Sampling may be conducted for dusts outside the work area to assess impact.

### 3.4 CLEANING AND DISPOSAL

The construction area and adjacent areas are to be kept in a clean and sanitary manner, using damp methods and HEPA filtered vacuuming.

Dry sweeping shall not be allowed.

Any dust tracked outside of the barriers must be removed immediately and as it accumulates.

Surfaces are to be cleaned daily or more frequently if needed with VAMC approved cleaning products.

There shall be no standing water in the work area. All accidental spills must be cleaned up immediately and wet porous material removed within one hour.

Any water damaged areas scheduled for impact/demolition shall be removed first, under HEPA filtered exhaust and containment, with the waste promptly bagged, to reduce aerosol of microbial agent/fungi/spore from potentially escaping out of the work space.

All barriers are to be removed carefully to minimize the spread of contaminants.

Where feasible, the optimal method for removal of debris is via an exterior type chute to closed top containers.

Where not feasible, waste is to be removed in clean air tight covered containers and transported from the work area by a pre-determined route during off-peak hours. Such designated debris removal routes shall be cleaned by damp-mop and/or HEPA filtered vacuuming prior to being returned to patient/staff use.

For work performed exterior to the building envelope, no debris/waste movement shall be allowed through the building interior spaces.

-- End of Section --

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

05-01-16  
January 13, 2017  
Issued for Construction

**SECTION 01 42 19**  
**REFERENCE STANDARDS**

PART 1 - GENERAL

1.1 DESCRIPTION

This section specifies the availability and source of references and standards specified in the project manual under paragraphs APPLICABLE PUBLICATIONS and/or shown on the drawings.

1.2 AVAILABILITY OF SPECIFICATIONS LISTED IN THE GSA INDEX OF FEDERAL SPECIFICATIONS, STANDARDS AND COMMERCIAL ITEM DESCRIPTIONS FPMR PART 101-29 (FAR 52.211-1) (AUG 1998)

- A. The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29 and copies of specifications, standards, and commercial item descriptions cited in the solicitation may be obtained for a fee by submitting a request to - GSA Federal Supply Service, Specifications Section, Suite 8100, 470 East L'Enfant Plaza, SW, Washington, DC 20407, Telephone (202) 619-8925, Facsimile (202) 619-8978.
- B. If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (a) of this provision. Additional copies will be issued for a fee.

1.3 AVAILABILITY FOR EXAMINATION OF SPECIFICATIONS NOT LISTED IN THE GSA INDEX OF FEDERAL SPECIFICATIONS, STANDARDS AND COMMERCIAL ITEM DESCRIPTIONS (FAR 52.211-4) (JUN 1988)

The specifications and standards cited in this solicitation can be examined at the following location:

DEPARTMENT OF VETERANS AFFAIRS  
Office of Construction & Facilities Management  
Facilities Quality Service (00CFM1A)  
425 Eye Street N.W, (sixth floor)  
Washington, DC 20001  
Telephone Numbers: (202) 632-5249 or (202) 632-5178  
Between 9:00 AM - 3:00 PM

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

05-01-16  
January 13, 2017  
Issued for Construction

1.4 AVAILABILITY OF SPECIFICATIONS NOT LISTED IN THE GSA INDEX OF FEDERAL SPECIFICATIONS, STANDARDS AND COMMERCIAL ITEM DESCRIPTIONS (FAR 52.211-3) (JUN 1988)

The specifications cited in this solicitation may be obtained from the associations or organizations listed below.

AA	Aluminum Association Inc. <a href="http://www.aluminum.org">http://www.aluminum.org</a>
AABC	Associated Air Balance Council <a href="http://www.aabchq.com">http://www.aabchq.com</a>
AAMA	American Architectural Manufacturer's Association <a href="http://www.aamanet.org">http://www.aamanet.org</a>
AAN	American Nursery and Landscape Association <a href="http://www.anla.org">http://www.anla.org</a>
AASHTO	American Association of State Highway and Transportation Officials <a href="http://www.aashto.org">http://www.aashto.org</a>
AATCC	American Association of Textile Chemists and Colorists <a href="http://www.aatcc.org">http://www.aatcc.org</a>
ACGIH	American Conference of Governmental Industrial Hygienists <a href="http://www.acgih.org">http://www.acgih.org</a>
ACI	American Concrete Institute <a href="http://www.aci-int.net">http://www.aci-int.net</a>
ACPA	American Concrete Pipe Association <a href="http://www.concrete-pipe.org">http://www.concrete-pipe.org</a>
ACPPA	American Concrete Pressure Pipe Association <a href="http://www.acppa.org">http://www.acppa.org</a>
ADC	Air Diffusion Council <a href="http://flexibleduct.org">http://flexibleduct.org</a>
AGA	American Gas Association <a href="http://www.aga.org">http://www.aga.org</a>
AGC	Associated General Contractors of America <a href="http://www.agc.org">http://www.agc.org</a>
AGMA	American Gear Manufacturers Association, Inc. <a href="http://www.agma.org">http://www.agma.org</a>
AHAM	Association of Home Appliance Manufacturers <a href="http://www.aham.org">http://www.aham.org</a>
AIA	American Institute of Architects <a href="http://www.aia.org">http://www.aia.org</a>



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

05-01-16  
January 13, 2017  
Issued for Construction

AISC	American Institute of Steel Construction <a href="http://www.aisc.org">http://www.aisc.org</a>
AISI	American Iron and Steel Institute <a href="http://www.steel.org">http://www.steel.org</a>
AITC	American Institute of Timber Construction <a href="http://www.aitc-glulam.org">http://www.aitc-glulam.org</a>
AMCA	Air Movement and Control Association, Inc. <a href="http://www.amca.org">http://www.amca.org</a>
ANLA	American Nursery & Landscape Association <a href="http://www.anla.org">http://www.anla.org</a>
ANSI	American National Standards Institute, Inc. <a href="http://www.ansi.org">http://www.ansi.org</a>
APA	The Engineered Wood Association <a href="http://www.apawood.org">http://www.apawood.org</a>
ARI	Air-Conditioning and Refrigeration Institute <a href="http://www.ari.org">http://www.ari.org</a>
ASAE	American Society of Agricultural Engineers <a href="http://www.asae.org">http://www.asae.org</a>
ASCE	American Society of Civil Engineers <a href="http://www.asce.org">http://www.asce.org</a>
ASHRAE	American Society of Heating, Refrigerating, and Air-Conditioning Engineers <a href="http://www.ashrae.org">http://www.ashrae.org</a>
ASME	American Society of Mechanical Engineers <a href="http://www.asme.org">http://www.asme.org</a>
ASSE	American Society of Sanitary Engineering <a href="http://www.asse-plumbing.org">http://www.asse-plumbing.org</a>
ASTM	American Society for Testing and Materials <a href="http://www.astm.org">http://www.astm.org</a>
AWI	Architectural Woodwork Institute <a href="http://www.awinet.org">http://www.awinet.org</a>
AWS	American Welding Society <a href="http://www.aws.org">http://www.aws.org</a>
AWWA	American Water Works Association <a href="http://www.awwa.org">http://www.awwa.org</a>
BHMA	Builders Hardware Manufacturers Association <a href="http://www.buildershardware.com">http://www.buildershardware.com</a>

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

05-01-16  
January 13, 2017  
Issued for Construction

BIA	Brick Institute of America <a href="http://www.bia.org">http://www.bia.org</a>
CAGI	Compressed Air and Gas Institute <a href="http://www.cagi.org">http://www.cagi.org</a>
CGA	Compressed Gas Association, Inc. <a href="http://www.cganet.com">http://www.cganet.com</a>
CI	The Chlorine Institute, Inc. <a href="http://www.chlorineinstitute.org">http://www.chlorineinstitute.org</a>
CISCA	Ceilings and Interior Systems Construction Association <a href="http://www.cisca.org">http://www.cisca.org</a>
CISPI	Cast Iron Soil Pipe Institute <a href="http://www.cispi.org">http://www.cispi.org</a>
CLFMI	Chain Link Fence Manufacturers Institute <a href="http://www.chainlinkinfo.org">http://www.chainlinkinfo.org</a>
CPMB	Concrete Plant Manufacturers Bureau <a href="http://www.cpmc.org">http://www.cpmc.org</a>
CRA	California Redwood Association <a href="http://www.calredwood.org">http://www.calredwood.org</a>
CRSI	Concrete Reinforcing Steel Institute <a href="http://www.crsi.org">http://www.crsi.org</a>
CTI	Cooling Technology Institute <a href="http://www.cti.org">http://www.cti.org</a>
DHI	Door and Hardware Institute <a href="http://www.dhi.org">http://www.dhi.org</a>
EGSA	Electrical Generating Systems Association <a href="http://www.egsa.org">http://www.egsa.org</a>
EEI	Edison Electric Institute <a href="http://www.eei.org">http://www.eei.org</a>
EPA	Environmental Protection Agency <a href="http://www.epa.gov">http://www.epa.gov</a>
ETL	ETL Testing Laboratories, Inc. <a href="http://www.etl.com">http://www.etl.com</a>
FAA	Federal Aviation Administration <a href="http://www.faa.gov">http://www.faa.gov</a>
FCC	Federal Communications Commission <a href="http://www.fcc.gov">http://www.fcc.gov</a>

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project No. 650-16-011

05-01-16  
 January 13, 2017  
 Issued for Construction

FPS	The Forest Products Society <a href="http://www.forestprod.org">http://www.forestprod.org</a>
GANA	Glass Association of North America <a href="http://www.cssinfo.com/info/gana.html/">http://www.cssinfo.com/info/gana.html/</a>
FM	Factory Mutual Insurance <a href="http://www.fmglobal.com">http://www.fmglobal.com</a>
GA	Gypsum Association <a href="http://www.gypsum.org">http://www.gypsum.org</a>
GSA	General Services Administration <a href="http://www.gsa.gov">http://www.gsa.gov</a>
HI	Hydraulic Institute <a href="http://www.pumps.org">http://www.pumps.org</a>
HPVA	Hardwood Plywood & Veneer Association <a href="http://www.hpva.org">http://www.hpva.org</a>
ICBO	International Conference of Building Officials <a href="http://www.icbo.org">http://www.icbo.org</a>
ICEA	Insulated Cable Engineers Association Inc. <a href="http://www.icea.net">http://www.icea.net</a>
\ICAC	Institute of Clean Air Companies <a href="http://www.icac.com">http://www.icac.com</a>
IEEE	Institute of Electrical and Electronics Engineers <a href="http://www.ieee.org/">http://www.ieee.org/</a>
IMSA	International Municipal Signal Association <a href="http://www.imsasafety.org">http://www.imsasafety.org</a>
IPCEA	Insulated Power Cable Engineers Association
NBMA	Metal Buildings Manufacturers Association <a href="http://www.mbma.com">http://www.mbma.com</a>
MSS	Manufacturers Standardization Society of the Valve and Fittings Industry Inc. <a href="http://www.mss-hq.com">http://www.mss-hq.com</a>
NAAMM	National Association of Architectural Metal Manufacturers <a href="http://www.naamm.org">http://www.naamm.org</a>
NAPHCC	Plumbing-Heating-Cooling Contractors Association <a href="http://www.phccweb.org.org">http://www.phccweb.org.org</a>
NBS	National Bureau of Standards See - NIST

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

05-01-16  
January 13, 2017  
Issued for Construction

NBBPVI National Board of Boiler and Pressure Vessel Inspectors  
<http://www.nationboard.org>

NEC National Electric Code  
See - NFPA National Fire Protection Association

NEMA National Electrical Manufacturers Association  
<http://www.nema.org>

NFPA National Fire Protection Association  
<http://www.nfpa.org>

NHLA National Hardwood Lumber Association  
<http://www.natlhardwood.org>

NIH National Institute of Health  
<http://www.nih.gov>

NIST National Institute of Standards and Technology  
<http://www.nist.gov>

NLMA Northeastern Lumber Manufacturers Association, Inc.  
<http://www.nelma.org>

NPA National Particleboard Association  
18928 Premiere Court  
Gaithersburg, MD 20879  
(301) 670-0604

NSF National Sanitation Foundation  
<http://www.nsf.org>

NWWDA Window and Door Manufacturers Association  
<http://www.nwwda.org>

OSHA Occupational Safety and Health Administration  
Department of Labor  
<http://www.osha.gov>

PCA Portland Cement Association  
<http://www.portcement.org>

PCI Precast Prestressed Concrete Institute  
<http://www.pci.org>

PPI The Plastic Pipe Institute  
<http://www.plasticpipe.org>

PEI Porcelain Enamel Institute, Inc.  
<http://www.porcelainenamel.com>

PTI Post-Tensioning Institute  
<http://www.post-tensioning.org>

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

05-01-16  
January 13, 2017  
Issued for Construction

RFCI	The Resilient Floor Covering Institute <a href="http://www.rfci.com">http://www.rfci.com</a>
RIS	Redwood Inspection Service See - CRA
RMA	Rubber Manufacturers Association, Inc. <a href="http://www.rma.org">http://www.rma.org</a>
SCMA	Southern Cypress Manufacturers Association <a href="http://www.cypressinfo.org">http://www.cypressinfo.org</a>
SDI	Steel Door Institute <a href="http://www.steeldoor.org">http://www.steeldoor.org</a>
SOI	Secretary of the Interior <a href="http://www.cr.nps.gov/local-law/arch_stnds_8_2.htm">http://www.cr.nps.gov/local-law/arch_stnds_8_2.htm</a>
IGMA	Insulating Glass Manufacturers Alliance <a href="http://www.igmaonline.org">http://www.igmaonline.org</a>
SJI	Steel Joist Institute <a href="http://www.steeljoist.org">http://www.steeljoist.org</a>
SMACNA	Sheet Metal and Air-Conditioning Contractors National Association, Inc. <a href="http://www.smacna.org">http://www.smacna.org</a>
SSPC	The Society for Protective Coatings <a href="http://www.sspc.org">http://www.sspc.org</a>
STI	Steel Tank Institute <a href="http://www.steeltank.com">http://www.steeltank.com</a>
SWI	Steel Window Institute <a href="http://www.steelwindows.com">http://www.steelwindows.com</a>
TCA	Tile Council of America, Inc. <a href="http://www.tileusa.com">http://www.tileusa.com</a>
TEMA	Tubular Exchange Manufacturers Association <a href="http://www.tema.org">http://www.tema.org</a>
TPI	Truss Plate Institute, Inc. 583 D'Onofrio Drive; Suite 200 Madison, WI 53719 (608) 833-5900
UBC	The Uniform Building Code See ICBO
UL	Underwriters' Laboratories Incorporated <a href="http://www.ul.com">http://www.ul.com</a>

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

05-01-16  
January 13, 2017  
Issued for Construction

ULC            Underwriters' Laboratories of Canada  
                 <http://www.ulc.ca>

WCLIB        West Coast Lumber Inspection Bureau  
                 6980 SW Varns Road, P.O. Box 23145  
                 Portland, OR 97223  
                 (503) 639-0651

WRCLA       Western Red Cedar Lumber Association  
                 P.O. Box 120786  
                 New Brighton, MN 55112  
                 (612) 633-4334

WWPA        Western Wood Products Association  
                 <http://www.wwpa.org>

- - - E N D - - -

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

**SECTION TABLE OF CONTENTS**  
**DIVISION 01 - GENERAL REQUIREMENTS**  
**SECTION 01 45 02**  
**QUALITY CONTROL SYSTEM (QCS)**

**PART 1 GENERAL**

**1.1 QCS SYSTEM**

- 1.1.1 Correspondence and Electronic Communications
- 1.1.2 Other Factors

**1.2 CONTRACT DATABASE**

**1.3 DATABASE MAINTENANCE**

- 1.3.1 Administration
  - 1.3.1.1 Contractor Information
  - 1.3.1.2 Subcontractor Information
  - 1.3.1.3 Correspondence
  - 1.3.1.4 Equipment
  - 1.3.1.5 Management Reporting
- 1.3.2 Finances
  - 1.3.2.1 Pay Activity Data
  - 1.3.2.2 Payment Requests
- 1.3.3 Quality Control (QC)
  - 1.3.3.1 Daily Contractor Quality Control (CQC) Reports.
  - 1.3.3.2 Deficiency Tracking.
  - 1.3.3.3 Three-Phase Control Meetings
  - 1.3.3.4 Accident/Safety Tracking
  - 1.3.3.5 Features of Work
  - 1.3.3.6 QC Requirements
- 1.3.4 Submittal Management
- 1.3.5 Schedule

**1.4 DATA SUBMISSION VIA CD-ROM**

- 1.4.1 File Medium
- 1.4.2 CD-ROM Labels
- 1.4.3 File Names

**1.5 MONTHLY COORDINATION MEETING**

**1.6 NOTIFICATION OF NONCOMPLIANCE**

-- End of Section Table of Contents --

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

SECTION 01 45 02

QUALITY CONTROL SYSTEM (QCS)

**PART 1 GENERAL**

**1.1 QCS SYSTEM**

The Contractor shall provide a QCS approved by the Government to assist in monitoring administration of this contract throughout the contract period. Information shall include data on:

- Administration
- Finances
- Quality Control
- Submittal Monitoring Scheduling

**1.1.1 Correspondence and Electronic Communications**

For ease and speed of communications, both Government and Contractor will, to the maximum extent feasible, exchange correspondence and other documents in electronic format. Correspondence, pay requests and other documents comprising the official contract record shall also be provided in paper format, with signatures and dates where necessary. Paper documents will govern, in the event of discrepancy with the electronic version.

**1.1.2 Other Factors**

Particular attention is directed to Contract Clause "Schedules for Construction Contracts", Contract Clause "Payments", Section 01 33 00 SUBMITTAL PROCEDURES, and Section 01 45 04 CONTRACTOR QUALITY CONTROL, which have a direct relationship to the reporting to be accomplished. All costs associated therewith shall be included in the contract pricing for the work.

**1.2 CONTRACT DATABASE**

Prior to the pre-construction conference, the Government shall provide the Contractor with basic contract award data to use for QCS. The Government will provide data updates to the Contractor as needed. These updates will generally consist of submittal reviews, correspondence status, QA comments, and other administrative and QA data.

**1.3 DATABASE MAINTENANCE**

The Contractor shall establish, maintain, and update data for the contract in the QCS database throughout the duration of the contract. The Contractor shall establish and maintain the QCS data at the Contractor's site office. Data updates to the Government shall be submitted to the Government electronically, e.g., daily reports, schedule updates, payment requests. If permitted by the Contracting Officer, a CD-ROM may be used (see Paragraph DATA SUBMISSION VIA COMPUTER DISKETTE OR CD-ROM). The QCS data typically shall include current data on the following items:

**1.3.1 Administration**



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

#### 1.3.1.1 Contractor Information

The submitted data shall contain the Contractor's name, address, telephone numbers, management staff, and other required items. Upon NTP from the Government, the Contractor shall deliver Contractor administrative data in electronic format.

#### 1.3.1.2 Subcontractor Information

The data shall contain the name, trade, address, phone numbers, and other required information for all subcontractors. A subcontractor must be listed separately for each trade to be performed. Upon NTP from the Government, the Contractor shall deliver subcontractor administrative data in electronic format.

#### 1.3.1.3 Correspondence

All Contractor correspondence to the Government shall be identified with a serial number. Correspondence initiated by the Contractor's site office shall be prefixed with "S". Letters initiated by the Contractor's home (main) office shall be prefixed with "H". Letters shall be numbered starting from 0001. (e.g., H-0001 or S-0001). The Government's letters to the Contractor will be prefixed with "C".

#### 1.3.1.4 Equipment

The Contractor's QCS data shall contain a current list of equipment planned for use or being used on the jobsite, including the most recent and planned equipment inspection dates.

#### 1.3.1.5 Management Reporting

The QCS shall include a number of reports that Contractor management can use to track the status of the project. The value of these reports is reflective of the quality of the data input. Among these reports are: Progress Payment Request worksheet, QA/QC comments, Submittal Register Status, Three-Phase Inspection checklists.

### 1.3.2 Finances

#### 1.3.2.1 Pay Activity Data

The QCS data shall include a list of pay activities that the Contractor shall develop in conjunction with the construction schedule. The sum of all pay activities shall be equal to the total contract amount, including modifications. Pay activities shall be grouped by Contract Line Item Number (CLIN), and the sum of the activities shall equal the amount of each CLIN. The total of all CLINs equals the Contract Amount.

#### 1.3.2.2 Payment Requests

The Contractor shall complete a payment request worksheet and include it with the payment request. The work completed under the contract, measured as percent or as specific quantities, shall be updated at least monthly. After the update, the Contractor shall generate a payment request report. The Contractor shall submit the payment requests with supporting data. If

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

permitted by the Contracting Officer, a CD-ROM may be used. A signed paper copy of the approved payment request is also required, which shall govern in the event of discrepancy with the electronic version.

#### 1.3.3 Quality Control (QC)

The Contractor shall track implementation of the 3-phase QC Control System, prepare daily reports, identify and track deficiencies, document progress of work, and other contractor QC requirements. The Contractor shall maintain this data on a daily basis. The Contractor shall provide the Government a Contractor Quality Control (CQC) Plan within the time required in Section 01 45 04 CONTRACTOR QUALITY CONTROL. Within seven calendar days of Government acceptance, the Contractor shall submit a CD-ROM reflecting the information contained in the accepted CQC Plan: schedule, pay activities, features of work, submittal register, QC requirements, and equipment list.

##### 1.3.3.1 Daily Contractor Quality Control (CQC) Reports.

The Contractor shall use the VA approved Daily Report Form to record basic QC data. Data from any supplemental reports by the Contractor shall be summarized and consolidated onto the Daily VA CQC Report. Daily CQC Reports shall be submitted as required by Section 01 45 04 CONTRACTOR QUALITY CONTROL. Reports shall be submitted electronically to the Government within 24 hours after the date covered by the report. Mode of submittal shall be coordinated with the Government representative. The Contractor shall also provide the Government a signed, printed copy of the daily CQC report.

##### 1.3.3.2 Deficiency Tracking.

The Contractor shall use QCS to track deficiencies. Deficiencies identified by the Contractor will be numerically tracked using QC punch list items. The Contractor shall maintain a current log of its QC punch list items. The Government will log the deficiencies it has identified using its QA punch list items. The Government's QA punch list items will be provided to the Contractor. The Contractor shall regularly update the correction status of both QC and QA punch list items.

##### 1.3.3.3 Three-Phase Control Meetings

The Contractor shall maintain scheduled and actual dates and times of preparatory and initial control meetings.

##### 1.3.3.4 Accident/Safety Tracking

The Government will issue safety comments, directions, or guidance whenever safety deficiencies are observed. The Government's safety comments will be provided to the Contractor. The Contractor shall regularly update the correction status of the safety comments. In addition, the Contractor shall advise the Government of any accidents occurring on the jobsite. This brief report is not to be considered as a substitute for completion of mandatory reports, e.g., ENG Form 3394 and OSHA Form 300.

##### 1.3.3.5 Features of Work

The Contractor shall include a complete list of the features of work QCS. A

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

feature of work may be associated with multiple pay activities. However, each pay activity (see subparagraph "Pay Activity Data" of paragraph "Finances") will only be linked to a single feature of work.

#### 1.3.3.6 QC Requirements

The Contractor shall develop and maintain a complete list of QC testing, transferred and installed property, and user training requirements. The Contractor shall update all data on these QC requirements as work progresses, and shall promptly provide this information to the Government.

#### 1.3.4 Submittal Management

The Government will provide the initial submittal register in electronic format. Thereafter, the Contractor shall maintain a complete list of all submittals, including completion of all data columns on the submittal register provided. The transmittal number on the submittal register shall match the submission number on the VA Material Approval Submittal Form. Dates on which submittals are received and returned by the Government will be provided to the Contractor. The Contractor shall track and transmit all submittals using the VA Material Approval Submittal Form and use the submittal register provided. The Contractor shall provide an updated submittal register to the Government on a weekly basis.

#### 1.3.5 Schedule

The Contractor shall develop a construction schedule consisting of pay activities, in accordance with Contract Clause "Schedules for Construction Contracts". The updated schedule data shall be included with each pay request submitted by the Contractor.

### 1.4 DATA SUBMISSION VIA CD-ROM

The Government-preferred method for Contractor's submission of updates, payment requests, correspondence and other data is electronically. For locations where this is not feasible, the Contracting Officer may permit use of CD-ROM for data transfer. If used, CD-ROMs will be submitted in accordance with the following:

#### 1.4.1 File Medium

The Contractor shall submit required data on CD-ROMs. They shall conform to industry standards used in the United States. All data shall be provided in English.

#### 1.4.2 CD-ROM Labels

The Contractor shall affix a permanent exterior label to each CD-ROM submitted. The label shall indicate in English, the QCS file name, full contract number, the VA Project Number, contract name, project location, data date, name and telephone number of person responsible for the data.

#### 1.4.3 File Names

The Government will provide the file names to be used by the Contractor with the QCS software.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

#### **1.5 MONTHLY COORDINATION MEETING**

The Contractor shall update the QCS database each workday. At least monthly, the Contractor shall generate and submit an export file to the Government with schedule update and progress payment request. As required in Contract Clause "Payments", at least one week prior to submittal, the Contractor shall meet with the Government representative to review the planned progress payment data submission for errors and omissions. The Contractor shall make all required corrections prior to Government acceptance of the export file and progress payment request. Payment requests accompanied by incomplete or incorrect data submittals will be returned. The Government will not process progress payments until an acceptable QCS export file is received.

#### **1.6 NOTIFICATION OF NONCOMPLIANCE**

The Contracting Officer will notify the Contractor of any detected noncompliance with the requirements of this specification. The Contractor shall take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, shall be deemed sufficient for the purpose of notification.

-- End of Section --

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

07-01-15  
January 13, 2017  
Issued for Construction

**SECTION 01 58 16**  
**TEMPORARY INTERIOR SIGNAGE**

**PART 1 GENERAL**

**DESCRIPTION**

This section specifies temporary interior signs.

**PART 2 PRODUCTS**

**2.1 TEMPORARY SIGNS**

- A. Fabricate from 50 Kg (110 pound) mat finish white paper.
- B. Cut to 100 mm (4-inch) wide by 300 mm (12 inch) long size tag.
- C. Punch 3 mm (1/8-inch) diameter hole centered on 100 mm (4-inch) dimension of tag. Edge of Hole spaced approximately 13 mm (1/2-inch) from one end on tag.
- D. Reinforce hole on both sides with gummed cloth washer or other suitable material capable of preventing tie pulling through paper edge.
- E. Ties: Steel wire 0.3 mm (0.0120-inch) thick, attach to tag with twist tie, leaving 150 mm (6-inch) long free ends.

**PART 3 EXECUTION**

**3.1 INSTALLATION**

- A. Install temporary signs attached to room door frame or room door knob, lever, or pull for doors on corridor openings.
- B. Mark on signs with felt tip marker having approximately 3 mm (1/8-inch) wide stroke for clearly legible numbers or letters.
- C. Identify room with numbers as designated on floor plans.

**3.2 LOCATION**

- A. Install on doors that have room, corridor, and space numbers shown.
- B. Doors that do not require signs are as follows:
  - 1. Corridor barrier doors (cross-corridor) in corridor with same number.
  - 2. Folding doors or partitions.
  - 3. Toilet or bathroom doors within and between rooms.
  - 4. Communicating doors in partitions between rooms with corridor entrance doors.
  - 5. Closet doors within rooms.
- C. Replace missing, damaged, or illegible signs.

- - - E N D - - -

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

07-01-15  
January 13, 2017  
Issued for Construction

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

## SECTION 01 62 35

### RECYCLED / RECOVERED MATERIALS

#### PART 1 GENERAL

This section covers the requirements of the EPA's Comprehensive Procurement Guide (CPG) Program. The CPG program is part of EPA's continuing effort to promote the use of materials recovered from solid waste. Buying recycled-content products ensures that the materials collected in recycling programs will be used again in the manufacture of new products. The CPG program is authorized by Congress under Section 6002 of the Resource Conservation and Recovery Act (RCRA) and Executive Order 13148. EPA is required to designate products that are or can be made with recovered materials, and to recommend practices for buying these products. Once a product is designated, procuring agencies are required to purchase it with the highest recovered material content level practicable.

#### 1.1 REFERENCES

Section 6002 of the Resource Conservation and Recovery Act (RCRA)

Executive Order 13148, Greening the Government Through Leadership in Environmental Management

40 CFR 247, Comprehensive Procurement Guideline for Products Containing Recovered Materials.

#### 1.2 OBJECTIVES

It is the Providence VA's procurement policy to acquire, in a cost effective manner, items containing the highest percentage of recycled and recovered materials practicable, consistent with maintaining a satisfactory level of competition without adversely affecting performance requirements or exposing suppliers' employees to undue hazards from the recovered materials. A key component of the CPG program is EPA's list of designated products and the accompanying recycled-content recommendations. EPA has already designated or is proposing to designate the products listed below. They are grouped into eight categories:

[Construction Products](#)  
[Landscaping Products](#)  
[Nonpaper Office Products](#)  
[Paper and Paper Products](#)  
[Park and Recreation Products](#)  
[Transportation Products](#)  
[Vehicular Products](#)  
[Miscellaneous Products](#)

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

The above CPG list is located at the following URL:

<http://www.epa.gov/cpg/products.htm>

The Contractor shall make all reasonable efforts to use recycled and recovered materials in providing the EPA designated products and in otherwise utilizing recycled and recovered materials in the execution of the contracted work.

### **1.3 EPA ITEMS INCORPORATED INTO THE WORK**

It is the responsibility of the Architectural Engineering (AE) firm performing the design to be aware of current EPA requirements and to determine the suitability of an EPA designated item in the work. Level of competition, delivery time, performance requirements, and price should all be considered in making the determination.

These items, when incorporated into the work under this contract, shall contain at least the specified percentage of recycled or recovered materials unless adequate justification (non-availability) for non-use is provided. When a designated item is specified as an option to a non-designated item, the designated item requirements apply only if the designated item is used in the work.

### **1.4 EPA PROPOSED ITEMS IN THE WORK**

Products other than those designated by EPA are still being researched and are being considered for future Comprehensive Procurement Guideline (CPG) designation. It is recommended that these items, when incorporated in the work under this contract, contain the highest practicable percentage of recycled or recovered materials, provided specified requirements are also met.

### **1.5 EPA LISTED ITEMS USED IN CONDUCT OF THE WORK BUT NOT INCORPORATED IN THE WORK**

There are many products listed in 40 CFR 247 which have been designated or proposed by EPA to include recycled or recovered materials that may be used by the Contractor in performing the work but will not be incorporated into the work. These products include office products, temporary traffic control products, and pallets. It is recommended that these non-construction products, when used in the conduct of the work, contain the highest practicable percentage of recycled or recovered materials and that these products be recycled when no longer needed.

### **1.6 RECORDKEEPING AND DOCUMENTATION**

It is the responsibility of the Contractor to provide the Providence VA submittals outlining the individual products and quantities that have been used on the project which meet the CPG guidance outlined in the preceding sections. These submittals shall be prepared on a quarterly basis throughout the term of the contract and submitted to the COR for inclusion in the contract records and documentation.



**SECTION 01 74 19****CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT****PART 1 – GENERAL**

This section covers the requirements for management of non-hazardous building construction and demolition waste materials. Under the Sustainable Building requirements of Executive Order (EO) 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, and EO 13514, *Federal leadership in Environmental, Energy, and Economic Performance*, Federal agencies are directed to recycle or salvage at least 50 percent construction, demolition, and clearing waste, excluding soil, where markets or on-site recycling opportunities exist.

**1.1 RELATED WORK**

- A. Section 01 35 13, SPECIAL PROJECT PROCEDURES

**1.2 GOVERNMENT POLICY**

- A. Contractor shall maximize use of source reduction and recycling procedures outlined in ASTM D5834.
- B. Contractor shall use all reasonable means to divert construction and demolition waste from landfills and incinerators and facilitate their recycling.
- C. Contractor shall be responsible for implementation of any special programs involving rebates or similar incentives related to recycling and any revenues or savings obtained from salvage or recycling shall accrue to the Contractor.
- D. Contractor shall ensure that facilities used for recycling, reuse and disposal shall be permitted for the intended use to the extent required by federal, state and local regulations.

**1.3 Intent and Waste Management Goals**

- A. The Providence VAMC's Construction and Demolition (C&D) Waste diversion goal is 50% by 2015. This goal mirrors the goal stated in EO 13514. Waste management goals include increased recycling and conservation of materials. C&D Wastes have been identified as a particular target for reuse and recycling, for several reasons:
- C&D debris typically represents a large volume of material;
  - Many of the waste streams generated during building demolition and construction projects are highly recyclable at reasonable prices;
- B. The Providence VAMC has determined that reducing, to the maximum extent practicable, the amount of waste disposed of in this project is a high priority. The Contractor and subcontractors shall take steps to generate the least amount of waste possible by minimizing waste due to error, poor planning, breakage, mishandling, contamination, or other factors.

- C. Of the inevitable waste that is generated, as many of the waste materials as economically feasible shall be segregated for reuse, salvage, or recycling, or recycled as mixed debris. In no case shall material be disposed of in a landfill or incinerator where an approved and less costly recycling or reuse alternative exists. Waste disposal in landfills and incinerators shall be minimized and shall be considered the alternative of last resort.
- D. With regard to these goals the Contractor shall develop, for the Owner's review and approval, a Waste Management Plan for this Project as described in Section 1.4.

#### **1.4 Draft Waste Management Plan**

- A. Within 14 calendar days after receipt of Notice of Award of Bid, and prior to any waste removal, the Contractor shall submit a Draft Waste Management Plan to the Architect & Engineering Firm and/or Resident Engineer. The Draft Waste Management Plan shall contain, as a minimum:
  - 1. A written analysis of the project wastes expected to be generated, by type and approximate quantity.
  - 2. Disposal options: - The name of all landfill(s) and/or incinerator(s) proposed for trash disposal, the respective tipping fee(s) for each of these disposal options including transportation costs, and the projected cost of disposing of all Project waste in the landfill(s).
  - 3. Alternatives to Landfill Disposal/Incineration: - A list of each material proposed to be salvaged, reused, or recycled during the course of the Project, the proposed end use or market for each material, the respective tipping fees for each end use or market (including transportation costs), and the estimated net cost savings or cost increase resulting from recycling each material (versus landfilling or other disposal), taking into account revenue from the sale of recycled or salvaged materials and tipping fees saved due to diversion of materials.
  - 4. The Draft Waste Management Plan shall include, at a minimum, the materials included in Section 1.5 that are required to be reused or recycled.
  - 5. Communication strategy for insuring all contractors and subcontractors are familiar with C&D Waste Management Plan.
  - 6. A "Sample C&D Waste Management Plan" can be found as attachment 1.
- B. Following the submittal of the Draft Waste Management Plan, The Resident Engineer and Architect & Engineering Firm will review the plan and consider the proposed recycling and waste disposal alternatives. The Owner and/or Architect may suggest alternatives to the proposed disposal options in order to increase recycling, reduce costs, or both.

#### **1.5 Materials for Which Recycling Is Required**

- A. The Providence VAMC requires that, as a minimum, the following materials must be considered for recycling, salvage, or reuse during this project:

Paper, including bond, newsprint, cardboard, mixed paper, packing materials, and packaging  
Glass  
Gypsum Wallboard  
Metals including, but not limited to, stud trim, ductwork, piping, reinforcing steel (rebar), roofing, other trim, steel, iron, galvanized sheet steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze. (ferrous and non-ferrous).  
Wood, including clean dimensional wood, pallet wood, plywood, oriented strand board (OSB), particle board, doors

#### **1.6 Final Waste Management Plan**

- A. Once VAMC Providence has considered the draft Waste Management Plan and made appropriate suggested modifications, the Contractor shall submit, within 14 Calendar days of receiving such suggested modifications, a Final Waste Management Plan, incorporating VAMC Providence's input.

#### **1.7 Waste Management Plan Implementation**

- A. Manager: - The Contractor shall designate a specific party (or parties) responsible for instructing workers in recycling and overseeing and documenting results of the C&D Waste Management Plan for the Project.
- B. Distribution: - The Contractor shall distribute copies of the C&D Waste Management Plan to the Job Site Foreman, each Subcontractor, the Owner, and the Architect.
- C. Instruction: - The Contractor or his designated waste manager shall provide on-site instruction regarding appropriate separation, handling, and recycling, salvage, reuse, and/or return methods to be used by all involved parties at the appropriate stages of the Project.
- D. Separation facilities: - As appropriate during each stage of the Project, the Contractor shall lay out and label a specific area(s) to facilitate separation of materials for potential recycling, salvage, reuse, and return. Recycling and waste bin areas are to be kept neat and clean and clearly marked in order to avoid contamination of materials.

#### **1.8 Reporting Required at Time of Invoicing**

- A. Application for Progress Payments: - The Contractor shall submit with each Application for Progress Payment a "*C&D Waste Management Report Form*" outlining the waste generated by the Project. Failure to submit this information shall render the Application for Payment incomplete and shall delay Progress Payment. The Summary shall be submitted on a form acceptable to the Owner (see Attachment 2 for an example) and shall contain the following information:
1. The amount (in tons) of material land-filled from the Project, the identity of the landfill, and any manifests weight tickets, receipt, and invoices.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

2. For each material recycled, salvaged, or reused from the Project, the amount (in pounds or cubic yards), the reporting period covered, the receiving party, and attach manifests, weight tickets, receipts, and invoices.

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project No. 650-16-011

January 13, 2017  
 Issued for Construction

## **Attachment 1**

### **Construction & Demolition (C&D) Waste Management Plan**

**Company:**

**Project:**

**Designated Recycling Coordinator:**

#### **Waste Management Goals:**

This project will recycle or salvage for reuse \_\_\_\_% [e.g. 75%] by weight of the waste generated on-site.

#### **Communication Plan:**

- ❖ Waste prevention and recycling activities will be discussed at the beginning of each safety meeting.
- ❖ As each new subcontractor comes on-site, the recycling coordinator will present him/her with a copy of the C&D Waste Management Plan and provide a tour of the recycling areas.
- ❖ The subcontractor will be expected to make sure all their crews comply with the C&D Waste Management Plan.
- ❖ All recycling containers will be clearly labeled.
- ❖ Lists of acceptable/unacceptable materials will be posted throughout the site.
- ❖ *Additional bullets as needed.*

#### **Expected Project Waste, Disposal, and Handling:**

The following charts identify waste materials expected on this project, their disposal method, and handling procedures.

##### **Deconstruction/Demolition Phase**

<b>Material</b>	<b>Quantity</b>	<b>Disposal Method</b>	<b>Handling Procedure</b>

##### **Construction Phase**

<b>Material</b>	<b>Quantity</b>	<b>Disposal Method</b>	<b>Handling Procedure</b>

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project No. 650-16-011

January 13, 2017  
 Issued for Construction

**Attachment 2**  
**CONSTRUCTION & DEMOLITION WASTE MANAGEMENT**  
**REPORT FORM**

**REPORTING PERIOD COVERED: \_\_\_\_\_**

<b>C&amp;D WASTE MANAGEMENT PROGRESS REPORT</b>							
<b>MATERIAL CATEGORY</b>	<b>DISPOSED IN MUNICIPAL SOLID WASTE LANDFILL</b>	<b>DIVERTED FROM LANDFILL BY RECYCLING, SALVAGE OR REUSE</b>					
		<b>Recycled</b>	<b>D.O.</b>	<b>Salvaged</b>	<b>D.O.</b>	<b>Reused</b>	<b>D.O.</b>
1. Asphalt (cu yds)							
2. Concrete (cu yds)							
3. Porcelain Plumbing Fixtures (lbs)							
4. Ferrous Metals (lbs)							
5. Non-Ferrous Metals (lbs)							
6. Wood (lbs)							
7. Glass (lbs)							
8. Bricks (lbs)							
9. Bond Paper (lbs)							
10. Cardboard (lbs)							
11. Plastic (lbs)							
12. Gypsum (lbs)							
13. Paint (gal)							
14. Insulation (lbs)							
15. Carpet and Pad (lbs)							
16. Beverage Containers (lbs)							
17. Rigid Foam (lbs)							
18. Furnishings (lbs)							
19. Soils (cy yds)							
20. Fluorescent Light Tubes, per 40 CFR 173.164(c) regulations							
21. Other (insert description)							
<b>Total Weight</b>		<b>(TOTAL OF ALL ABOVE VALUES)</b>					
	<b>Percentage of C&amp;D Waste Diverted</b>	<b>(TOTAL WASTE DIVIDED BY TOTAL DIVERTED)</b>					

D.O. ( Disposal Options): List the landfills, scrap yards, or recyclers used for each item disposed, i.e.:

1. ABC Municipal Landfill

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

January 13, 2017  
Issued for Construction

2. Metal Scrap Inc,
3. Other vendors

--End of Section--



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-16  
January 13, 2017  
Issued for Construction

## **SECTION 01 81 11**

### **SUSTAINABLE DESIGN REQUIREMENTS**

#### **PART 1 - GENERAL**

##### **1.1 SUMMARY**

This Section describes general requirements and procedures to comply with the Guiding Principles for Leadership in High Performance and Sustainable Buildings Memorandum of Understanding incorporated in the Executive Orders 13423 and 13514; Energy Policy Act of 2005 (EPA 2005) and the Energy Independence and Security Act of 2007 (EISA 2007).

##### **1.2 OBJECTIVES**

- A. To obtain acceptable Indoor Air Quality (IAQ) for the completed project and minimize the environmental impacts of the construction and operation, the Contractor during the construction phase of this project shall implement the following procedures:
  1. Select products that minimize consumption of non-renewable resources, consume reduced amounts of energy and minimize amounts of pollution to produce, and employ recycled and/or recyclable materials. It is the intent of this project to conform with EPA's Five Guiding Principles on environmentally preferable purchasing. The five principles are:
    - a. Include environmental considerations as part of the normal purchasing process.
    - b. Emphasize pollution prevention early in the purchasing process.
    - c. Examine multiple environmental attributes throughout a product's or service's life cycle.
    - d. Compare relevant environmental impacts when selecting products and services.
    - e. Collect and base purchasing decisions on accurate and meaningful information about environmental performance.
  2. Control sources for potential IAQ pollutants by controlled selection of materials and processes used in project construction in order to attain superior IAQ.
  3. Products and processes that achieve the above objectives to the extent currently possible and practical have been selected and included in these Construction Documents. The Contractor is responsible to maintain and support these objectives in developing means and methods for performing the work of this Contract and in

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-16  
January 13, 2017  
Issued for Construction

proposing product substitutions and/or changes to specified processes.

4. Use building practices that insure construction debris and particulates do not contaminate or enter duct work prior to system startup and turn over.

### 1.3 RELATED DOCUMENTS

- A. Section 01 74 19 CONSTRUCTION WASTE MANAGEMENT
- B. Section 01 81 09 TESTING FOR INDOOR AIR QUALITY (not written yet)
- C. Section 01 91 00 GENERAL COMMISSIONING REQUIREMENTS

### 1.4 DEFINITIONS

- A. Agrifiber Products: Composite panel products derived from agricultural fiber
- B. Biobased Product: As defined in the 2002 Farm Bill, a product determined by the Secretary to be a commercial or industrial product (other than food or feed) that is composed, in whole or in significant part, of biological products or renewable domestic agricultural materials (including plant, animal, and marine materials) or forestry materials
- C. Biobased Content: The weight of the biobased material divided by the total weight of the product and expressed as a percentage by weight
- D. Certificates of Chain-of-Custody: Certificates signed by manufacturers certifying that wood used to make products has been tracked through its extraction and fabrication to ensure that it was obtained from forests certified by a specified certification program
- E. Composite Wood: A product consisting of wood fiber or other plant particles bonded together by a resin or binder
- F. Construction and Demolition Waste: Includes solid wastes, such as building materials, packaging, rubbish, debris, and rubble resulting from construction, remodeling, repair and demolition operations. A construction waste management plan is to be provided by the Contractor as defined in Section 01 74 19.
- G. Third Party Certification: Certification of levels of environmental achievement by nationally recognized sustainability rating system.
- H. Light Pollution: Light that extends beyond its source such that the additional light is wasted in an unwanted area or in an area where it inhibits view of the night sky

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-16  
January 13, 2017  
Issued for Construction

- I. Recycled Content Materials: Products that contain pre-consumer or post-consumer materials as all or part of their feedstock
- J. Post-Consumer Recycled Content: The percentage by weight of constituent materials that have been recovered or otherwise diverted from the solid-waste stream after consumer use
- K. Pre-Consumer Recycled Content: Materials that have been recovered or otherwise diverted from the solid-waste stream during the manufacturing process. Pre-consumer content must be material that would not have otherwise entered the waste stream as per Section 5 of the FTC Act, Part 260 "Guidelines for the Use of Environmental Marketing Claims": [www.ftc.gov/bcp/grnrule/guides980427](http://www.ftc.gov/bcp/grnrule/guides980427)
- L. Regional Materials: Materials that are extracted, harvested, recovered, and manufactured within a radius of 250 miles (400 km) from the Project site
- M. Salvaged or Reused Materials: Materials extracted from existing buildings in order to be reused in other buildings without being manufactured
- N. Sealant: Any material that fills and seals gaps between other materials
- O. Type 1 Finishes: Materials and finishes which have a potential for short-term levels of off gassing from chemicals inherent in their manufacturing process, or which are applied in a form requiring vehicles or carriers for spreading which release a high level of particulate matter in the process of installation and/or curing.
- P. Type 2 Finishes: "Fuzzy" materials and finishes which are woven, fibrous, or porous in nature and tend to adsorb chemicals offgas
- Q. Volatile Organic Compounds (VOCs): Any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. Compounds that have negligible photochemical reactivity, listed in EPA 40 CFR 51.100(s), are also excluded from this regulatory definition.

#### 1.5 SUBMITTALS

- 1. Salvaged or Reused Materials: Provide documentation that lists each salvaged or reused material, the source or vendor of the material, the purchase price, and the replacement cost if greater than the purchase price.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-16  
January 13, 2017  
Issued for Construction

2. Recycled Content: Submittals for all materials with recycled content (excluding MEP systems equipment and components) must include the following documentation: Manufacturer's product data, product literature, or a letter from the manufacturer verifying the percentage of post-consumer and pre-consumer recycled content (by weight) of each material or product
  - a. An electronic spreadsheet that tabulates the Project's total materials cost and combined recycled content value (defined as the sum of the post-consumer recycled content value plus one-half of the pre-consumer recycled content value) expressed as a percentage of total materials cost. This spreadsheet shall be submitted every third month with the Contractor's Certificate and Application for Payment. It should indicate, on an ongoing basis, line items for each material, including cost, pre-consumer recycled content, post-consumer recycled content, and combined recycled content value.
3. Regional Materials: Submittals for all products or materials expected to contribute to the regional calculation (excluding MEP systems equipment and components) must include the following documentation:
  - a. Cost of each material or product, excluding cost of labor and equipment for installation
  - b. Location of product manufacture and distance from point of manufacture to the Project Site
  - c. Location of point of extraction, harvest, or recovery for each raw material in each product and distance from the point of extraction, harvest, or recovery to the Project Site
  - d. Manufacturer's product data, product literature, or a letter from the manufacturer verifying the location and distance from the Project Site to the point of manufacture for each regional material
  - e. Manufacturer's product data, product literature, or a letter from the manufacturer verifying the location and distance from the Project Site to the point of extraction, harvest, or recovery for each regional material or product, including, at a minimum, gravel and fill, planting materials, concrete, masonry, and GWB

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-16  
January 13, 2017  
Issued for Construction

- f. An electronic spreadsheet that tabulates the Project's total materials cost and regional materials value, expressed as a percentage of total materials cost. This spreadsheet shall be submitted every third month with the Contractor's Certificate and Application for Payment. It should indicate on an ongoing basis, line items for each material, including cost, location of manufacture, distance from manufacturing plant to the Project Site, location of raw material extraction, and distance from extraction point to the Project Site.
- 4. Biobased Products:
  - a. Rapidly Renewable Products: Submittals must include written documentation from the manufacturer declaring that rapidly renewable materials are made from plants harvested within a ten-year or shorter cycle and must indicate the percentage (by weight) of these rapidly renewable components contained in the candidate products, along with the costs of each of these materials, excluding labor and delivery costs.
  - b. Certified Wood: Submittals for all wood-based materials must include a statement indicating the cost of each product containing FSC Certified wood, exclusive of labor and delivery costs, and third party verification of certification from one of the following:
    - 1) Documentation from the supplier verifying that 100% of the wood-based content originates from SFI third-party certified forest lands, identifying the company or companies that performed the SFI third-party certification for both the forest land management and the certified product content.
- 5. Interior Adhesives and Sealants: Submittals for all field-applied adhesives and sealants, which have a potential impact on indoor air, must include manufacturer's MSDSs or other Product Data highlighting VOC content.
  - a. Provide manufacturers' documentation verifying all adhesives used to apply laminates, whether shop-applied or field-applied, contain no urea-formaldehyde.
- 6. Interior Paints and Coatings: Submittals for all field-applied paints and coatings, which have a potential impact on indoor air,

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-16  
January 13, 2017  
Issued for Construction

must include manufacturer's MSDSs or other Product Data highlighting VOC content

7. Floorcoverings:

a. Carpet Systems: Submittals for all carpet must include the following:

1) A copy of an assessment from the Building for Environmental and Economic Sustainability (BEES) software model, either Version 3.0 or 4.0, with parameters of the model set as described by this specification section.

2) Manufacturer's product data verifying that all carpet systems meet or exceed the testing and product requirements of the Carpet and Rug Institute Green Label Plus program.

8. Gypsum Wall Board: Provide manufacturer's cut sheets or product data verifying that all gypsum wallboard products are moisture and mold-resistant.

A. Project Materials Cost Data: Provide a spreadsheet in an electronic file indicating the total cost for the Project and the total cost of building materials used for the Project, as follows:

1. Not more than 60 days after the Preconstruction Meeting, the General Contractor shall provide to the Owner and Architect a preliminary schedule of materials costs for all materials used for the Project organized by specification section. Exclude labor costs and all mechanical, electrical, and plumbing (MEP) systems materials and labor costs. Include the following:

a. Identify each reused or salvaged material, its cost, and its replacement value.

b. Identify each recycled-content material, its post-consumer and pre-consumer recycled content as a percentage the product's weight, its cost, its combined recycled content value (defined as the sum of the post-consumer recycled content value plus one-half of the pre-consumer recycled content value), and the total combined recycled content value for all materials as a percentage of total materials costs.

c. Identify each regional material, its cost, its manufacturing location, the distance of this location from the Project site, the source location for each raw material component of the material, the distance of these extraction locations from the

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-16  
January 13, 2017  
Issued for Construction

- Project site, and the total value of regional materials as a percentage of total materials costs.
- d. Identify each biobased material, its source, its cost, and the total value of biobased materials as a percentage of total materials costs. Also provide the total value of rapidly renewable materials (materials made from plants that are harvested in less than a 10-year cycle) as a percentage of total materials costs.
  - e. Identify each wood-based material, its cost, the total wood-based materials cost, each FSC Certified wood material, its cost, and the total value of Certified wood as a percentage of total wood-based materials costs.
2. Provide final versions of the above spreadsheets to the Owner and Architect not more than 14 days after Substantial Completion.
- B. Construction Waste Management: See Section 01 74 19 "Construction Waste Management" for submittal requirements.
- C. Construction Indoor Air Quality (IAQ) Management: Submittals must include the following:
- 1. Not more than 30 days after the Preconstruction Meeting, prepare and submit for the Architect and Owner's approval, an electronic copy of the draft Construction IAQ Management Plan in an electronic file including, but not limited to, descriptions of the following:
  - 2. Instruction procedures for meeting or exceeding the minimum requirements of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guidelines for Occupied Buildings Under Construction, 1995, Chapter 3, including procedures for HVAC Protection, Source Control, Pathway Interruption, Housekeeping, and Scheduling
    - a. Instruction procedures for protecting absorptive materials stored on-site or installed from moisture damage
    - b. Schedule of submission to Architect of photographs of on-site construction IAQ management measures such as protection of ducts and on-site stored oil installed absorptive materials
  - c. 3.
- D. Sustainable Design Progress Reports: Concurrent with each Application for Payment, submit reports for the following:

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-16  
January 13, 2017  
Issued for Construction

1. Construction Waste Management: Waste reduction progress reports and logs complying with the requirements of Section 01 74 19 "Construction Waste Management."

#### **1.6 QUALITY ASSURANCE**

- A. Preconstruction Meeting: After award of Contract and prior to the commencement of the Work, schedule and conduct meeting with Owner, Architect, and all Subcontractors to discuss the Construction Waste Management Plan, the required Construction Indoor Air Quality (IAQ) Management Plan, and all other Sustainable Design Requirements. The purpose of this meeting is to develop a mutual understanding of the Project's Sustainable Design Requirements and coordination of the Contractor's management of these requirements with the Contracting Officer and the Construction Quality Manager.
- B. Construction Job Conferences: The status of compliance with the Sustainable Design Requirements of these specifications will be an agenda item at all regular job meetings conducted during the course of work at the site.

### **PART 2 - PRODUCTS**

#### **2.1 PRODUCT ENVIRONMENTAL REQUIREMENTS**

- a. Do not burn rubbish, organic matter, etc. or any material on the site. Dispose of legally in accordance with Specifications Sections 01 74 19.
- b. Salvaged or Reused materials: There shall be no substitutions for specified salvaged and reused materials and products.
  1. Salvaged materials: Use of salvaged materials reduces impacts of disposal and manufacturing of replacements.
- c. Recycled Content of Materials:
  1. Provide building materials with recycled content such that post-consumer recycled content value plus half the pre-consumer recycled content value constitutes a minimum of 30% of the cost of materials used for the Project, exclusive of all MEP equipment, labor, and delivery costs. The Contractor shall make all attempts to maximize the procurement of materials with recycled content.
    - a. e post-consumer recycled content value of a material shall be determined by dividing the weight of post-consumer recycled content by the total weight of the material and multiplying by the cost of the material.



VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project No. 650-16-011

12-01-16  
 January 13, 2017  
 Issued for Construction

- b. Do not include mechanical and electrical components in the calculations.
- c. Do not include labor and delivery costs in the calculations.
- d. Recycled content of materials shall be defined according to the Federal Trade Commission's "Guide for the Use of Environmental Marketing Claims," 16 CFR 260.7 (e).
- e. The materials in the following list must contain the minimum recycled content indicated:

Category	Minimum Recycled Content
Steel Fabrications	60% combined
Steel Studs	30% combined

- - - E N D - - -

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-16  
January 13, 2017  
Issued for Construction

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-15  
January 13, 2017  
Issued for Construction

**SECTION 02 41 00**  
**DEMOLITION**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

This section specifies demolition and removal of buildings, portions of buildings, utilities, other structures and debris from trash dumps shown.

**1.2 RELATED WORK:**

- A. Demolition and removal of roads, walks, curbs, and on-grade slabs outside buildings to be demolished: Section 31 20 00, EARTH MOVING Section 31 20 11, EARTH MOVING (SHORT FORM).
- B. Safety Requirements: Section 01 35 26 Safety Requirements Article, ACCIDENT PREVENTION PLAN (APP).
- C. Disconnecting utility services prior to demolition: Section 01 00 00, GENERAL REQUIREMENTS.
- D. Reserved items that are to remain the property of the Government: Section 01 00 00, GENERAL REQUIREMENTS.
- E. Asbestos Removal: Section 02 82 11, TRADITIONAL ASBESTOS ABATEMENT.
- F. Lead Paint: Section 02 83 33.13, LEAD-BASED PAINT REMOVAL AND DISPOSAL.
- G. Environmental Protection: Section 01 57 19, TEMPORARY ENVIRONMENTAL CONTROLS.
- H. Construction Waste Management: Section 017419 CONSTRUCTION WASTE MANAGEMENT.
- I. Infectious Control: Section 01 00 00, GENERAL REQUIREMENTS, Article 1.7, INFECTION PREVENTION MEASURES.

**1.3 PROTECTION:**

- A. Perform demolition in such manner as to eliminate hazards to persons and property; to minimize interference with use of adjacent areas, utilities and structures or interruption of use of such utilities; and to provide free passage to and from such adjacent areas of structures. Comply with requirements of GENERAL CONDITIONS Article, ACCIDENT PREVENTION.
- B. Provide safeguards, including warning signs, barricades, temporary fences, warning lights, and other similar items that are required for protection of all personnel during demolition and removal operations. Comply with requirements of Section 01 00 00, GENERAL REQUIREMENTS,

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-15  
January 13, 2017  
Issued for Construction

Article PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT,  
UTILITIES AND IMPROVEMENTS.

- C. Maintain fences, barricades, lights, and other similar items around exposed excavations until such excavations have been completely filled.
- D. Provide enclosed dust chutes with control gates from each floor to carry debris to truck beds and govern flow of material into truck. Provide overhead bridges of tight board or prefabricated metal construction at dust chutes to protect persons and property from falling debris.
- E. Prevent spread of flying particles and dust. Sprinkle rubbish and debris with water to keep dust to a minimum. Do not use water if it results in hazardous or objectionable condition such as, but not limited to; ice, flooding, or pollution. Vacuum and dust the work area daily.
- F. In addition to previously listed fire and safety rules to be observed in performance of work, include following:
  - 1. No wall or part of wall shall be permitted to fall outwardly from structures.
  - 2. Maintain at least one stairway in each structure in usable condition to highest remaining floor. Keep stairway free of obstructions and debris until that level of structure has been removed.
  - 3. Wherever a cutting torch or other equipment that might cause a fire is used, provide and maintain fire extinguishers nearby ready for immediate use. Instruct all possible users in use of fire extinguishers.
  - 4. Keep hydrants clear and accessible at all times. Prohibit debris from accumulating within a radius of 4500 mm (15 feet) of fire hydrants.
- G. Before beginning any demolition work, the Contractor shall survey the site and examine the drawings and specifications to determine the extent of the work. The contractor shall take necessary precautions to avoid damages to existing items to remain in place, to be reused, or to remain the property of the Medical Center; any damaged items shall be repaired or replaced as approved by the Resident Engineer. The Contractor shall coordinate the work of this section with all other work and shall construct and maintain shoring, bracing, and supports as required. The Contractor shall ensure that

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-15  
January 13, 2017  
Issued for Construction

structural elements are not overloaded and shall be responsible for increasing structural supports or adding new supports as may be required as a result of any cutting, removal, or demolition work performed under this contract. Do not overload structural elements. Provide new supports and reinforcement for existing construction weakened by demolition or removal works. Repairs, reinforcement, or structural replacement must have Resident Engineer's approval.

- H. The work shall comply with the requirements of Section 01 57 19, TEMPORARY ENVIRONMENTAL CONTROLS.
- I. The work shall comply with the requirements of Section 01 00 00, GENERAL REQUIREMENTS, Article 1.7 INFECTION PREVENTION MEASURES.

#### **1.4 UTILITY SERVICES:**

- A. Demolish and remove outside utility service lines shown to be removed.
- B. Remove abandoned outside utility lines that would interfere with installation of new utility lines and new construction.

#### **PART 2 - PRODUCTS (NOT USED)**

#### **PART 3 - EXECUTION**

##### **3.1 DEMOLITION:**

- A. Completely demolish and remove buildings and structures, including all appurtenances related or connected thereto, as noted below:
  - 1. As required for installation of new utility service lines.
  - 2. To full depth within an area defined by hypothetical lines located 1500 mm (5 feet) outside building lines of new structures.
- B. Debris, including brick, concrete, stone, metals and similar materials shall become property of Contractor and shall be disposed of by him daily, off the Medical Center Cemetery Property to avoid accumulation at the demolition site. Materials that cannot be removed daily shall be stored in areas specified by the Resident Engineer. Break up concrete slabs below grade that do not require removal from present location into pieces not exceeding 600 mm (24 inches) square to permit drainage. Contractor shall dispose debris in compliance with applicable federal, state or local permits, rules and/or regulations.
- C. In removing buildings and structures of more than two stories, demolish work story by story starting at highest level and progressing down to third floor level. Demolition of first and second stories may proceed simultaneously.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-15  
January 13, 2017  
Issued for Construction

- D. Remove and legally dispose of all materials, other than earth to remain as part of project work, from any trash dumps shown. Materials removed shall become property of contractor and shall be disposed of in compliance with applicable federal, state or local permits, rules and/or regulations be hauled to VA specified disposal site .All materials in the indicated trash dump areas, including above surrounding grade and extending to a depth of 1500mm (5feet) below surrounding grade, shall be included as part of the lump sum compensation for the work of this section. Materials that are located beneath the surface of the surrounding ground more than 1500 mm (5 feet), or materials that are discovered to be hazardous, shall be handled as unforeseen. The removal of hazardous material shall be referred to Hazardous Materials specifications.
- E. Remove existing utilities as indicated or uncovered by work and terminate in a manner conforming to the nationally recognized code covering the specific utility and approved by the Resident Engineer. When Utility lines are encountered that are not indicated on the drawings, the Resident Engineer shall be notified prior to further work in that area.

### 3.2 CLEAN-UP:

On completion of work of this section and after removal of all debris, leave site in clean condition satisfactory to Resident Engineer. Clean-up shall include off the Medical Center Cemetery Property disposal of all items and materials not required to remain property of the Government as well as all debris and rubbish resulting from demolition operations.

- - - E N D - - -

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2016  
Issued for Construction

**SECTION 07 84 00  
FIRESTOPPING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

- A. Provide UL or equivalent approved firestopping system for the closures of openings in walls, floors, and roof decks against penetration of flame, heat, and smoke or gases in fire resistant rated construction.
- B. Provide UL or equivalent approved firestopping system for the closure of openings in walls against penetration of gases or smoke in smoke partitions.

**1.2 RELATED WORK:**

- A. Expansion and seismic joint firestopping: Section 07 95 13, EXPANSION JOINT COVER ASSEMBLIES.
- B. Sealants and application: Section 07 92 00, JOINT SEALANTS.

**1.3 SUBMITTALS:**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Installer qualifications.
- C. Manufacturers literature, data, and installation instructions for types of firestopping and smoke stopping used.
- D. List of FM, UL, or WH classification number of systems installed.
- E. Certified laboratory test reports for ASTM E814 tests for systems not listed by FM, UL, or WH proposed for use.
- F. Submit certificates from manufacturer attesting that firestopping materials comply with the specified requirements.

**1.4 DELIVERY AND STORAGE:**

- A. Deliver materials in their original unopened containers with manufacturer's name and product identification.
- B. Store in a location providing protection from damage and exposure to the elements.

**1.5 QUALITY ASSURANCE:**

- A. FM, UL, or WH or other approved laboratory tested products will be acceptable.
- B. Installer Qualifications: A firm that has been approved by FM Global according to FM Global 4991 or been evaluated by UL and found to comply with UL's "Qualified Firestop Contractor Program Requirements." Submit qualification data.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2016  
Issued for Construction

## 1.6 APPLICABLE PUBLICATIONS

- A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in the text by the basic designation only.
- B. ASTM International (ASTM):
- E84-14.....Surface Burning Characteristics of Building Materials
  - E699-09.....Standard Practice for Evaluation of Agencies Involved in Testing, Quality Assurance, and Evaluating of Building Components
  - E814-13a.....Fire Tests of Through-Penetration Fire Stops
  - E2174-14.....Standard Practice for On-Site Inspection of Installed Firestops
  - E2393-10a.....Standard Practice for On-Site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers
- C. FM Global (FM):
- Annual Issue Approval Guide Building Materials
  - 4991-13.....Approval of Firestop Contractors
- D. Underwriters Laboratories, Inc. (UL):
- Annual Issue Building Materials Directory
  - Annual Issue Fire Resistance Directory
  - 723-10(2008).....Standard for Test for Surface Burning Characteristics of Building Materials
  - 1479-04(R2014).....Fire Tests of Through-Penetration Firestops
- E. Intertek Testing Services - Warnock Hersey (ITS-WH):
- Annual Issue Certification Listings
- F. Environmental Protection Agency (EPA):
- 40 CFR 59(2014).....National Volatile Organic Compound Emission Standards for Consumer and Commercial Products

## PART 2 - PRODUCTS

### 2.1 FIRESTOP SYSTEMS:

- A. Provide either factory built (Firestop Devices) or field erected (through-Penetration Firestop Systems) to form a specific building system maintaining required integrity of the fire barrier and stop the passage of gases or smoke. Firestop systems to accommodate building movements without impairing their integrity.



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2016  
Issued for Construction

- B. Through-penetration firestop systems and firestop devices tested in accordance with ASTM E814 or UL 1479 using the "F" or "T" rating to maintain the same rating and integrity as the fire barrier being sealed. "T" ratings are not required for penetrations smaller than or equal to 101 mm (4 in.) nominal pipe or 0.01 sq. m (16 sq. in.) in overall cross sectional area.
- C. Firestop sealants used for firestopping or smoke sealing to have the following properties:
  - 1. Contain no flammable or toxic solvents.
  - 2. Release no dangerous or flammable out gassing during the drying or curing of products.
  - 3. Water-resistant after drying or curing and unaffected by high humidity, condensation or transient water exposure.
  - 4. VOC Content: Firestopping sealants and sealant primers to comply with the following limits for VOC content when calculated according to 40 CFR 59, (EPA Method 24):
    - a. Sealants: 250 g/L.
    - b. Sealant Primers for Nonporous Substrates: 250 g/L.
    - c. Sealant Primers for Porous Substrates: 775 g/L.
- D. Firestopping system or devices used for penetrations by glass pipe, plastic pipe or conduits, unenclosed cables, or other non-metallic materials to have following properties:
  - 1. Classified for use with the particular type of penetrating material used.
  - 2. Penetrations containing loose electrical cables, computer data cables, and communications cables protected using firestopping systems that allow unrestricted cable changes without damage to the seal.
- E. Maximum flame spread of 25 and smoke development of 50 when tested in accordance with ASTM E84 or UL 723. Material to be an approved firestopping material as listed in UL Fire Resistance Directory or by a nationally recognized testing laboratory.
- F. FM, UL, or WH rated or tested by an approved laboratory in accordance with ASTM E814.
- G. Materials to be nontoxic and noncarcinogen at all stages of application or during fire conditions and to not contain hazardous chemicals. Provide firestop material that is free from Ethylene Glycol, PCB, MEK, and asbestos.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2016  
Issued for Construction

H. For firestopping exposed to view, traffic, moisture, and physical damage, provide products that do not deteriorate when exposed to these conditions.

1. For piping penetrations for plumbing and wet-pipe sprinkler systems, provide moisture-resistant through-penetration firestop systems.
2. For penetrations involving insulated piping, provide through-penetration firestop systems not requiring removal of insulation.

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION:**

- A. Submit product data and installation instructions, as required by article, submittals, after an on-site examination of areas to receive firestopping.
- B. Examine substrates and conditions with installer present for compliance with requirements for opening configuration, penetrating items, substrates, and other conditions affecting performance of firestopping. Do not proceed with installation until unsatisfactory conditions have been corrected.

#### **3.2 PREPARATION:**

- A. Remove dirt, grease, oil, laitance and form-release agents from concrete, loose materials, or other substances that prevent adherence and bonding or application of the firestopping or smoke stopping materials.
- B. Remove insulation on insulated pipe for a distance of 150 mm (6 inches) on each side of the fire rated assembly prior to applying the firestopping materials unless the firestopping materials are tested and approved for use on insulated pipes.
- C. Prime substrates where required by joint firestopping system manufacturer using that manufacturer's recommended products and methods. Confine primers to areas of bond; do not allow spillage and migration onto exposed surfaces.

#### **3.3 INSTALLATION:**

- A. Do not begin firestopping work until the specified material data and installation instructions of the proposed firestopping systems have been submitted and approved.

#### **3.4 CLEAN-UP:**

- A. As work on each floor is completed, remove materials, litter, and debris.
- B. Clean up spills of liquid type materials.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2016  
Issued for Construction

- C. Clean off excess fill materials and sealants adjacent to openings and joints as work progresses by methods and with cleaning materials approved by manufacturers of firestopping products and of products in which opening and joints occur.
- D. Protect firestopping during and after curing period from contact with contaminating substances or from damage resulting from construction operations or other causes so that they are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated firestopping immediately and install new materials to provide firestopping complying with specified requirements.

**3.5 INSPECTIONS AND ACCEPTANCE OF WORK:**

- A. Do not conceal or enclose firestop assemblies until inspection is complete and approved by the Contracting Officer Representative (COR).
- B. Submit written reports indicating locations of and types of penetrations and type of firestopping used at each location; type is to be recorded by UL listed printed numbers.

- - - E N D - - -

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2016  
Issued for Construction

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2016  
Issued for Construction

**SECTION 07 92 00**  
**JOINT SEALANTS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

- A. This section covers interior and exterior sealant and their application, wherever required for complete installation of building materials or systems.

**1.2 RELATED WORK (INCLUDING BUT NOT LIMITED TO THE FOLLOWING):**

- A. Firestopping Penetrations: Section 07 84 00, FIRESTOPPING.
- B. Glazing: Section 08 80 00, GLAZING.

**1.3 QUALITY ASSURANCE:**

- A. Installer Qualifications: An experienced installer with a minimum of three (3) years' experience and who has specialized in installing joint sealants similar in material, design, and extent to those indicated for this Project and whose work has resulted in joint-sealant installations with a record of successful in-service performance. Submit qualification.
- B. Source Limitations: Obtain each type of joint sealant through one (1) source from a single manufacturer.
- C. Product Testing: Obtain test results from a qualified testing agency based on testing current sealant formulations within a 12-month period.
  - 1. Testing Agency Qualifications: An independent testing agency qualified according to ASTM C1021.
  - 2. Test elastomeric joint sealants for compliance with requirements specified by reference to ASTM C920, and where applicable, to other standard test methods.
  - 3. Test other joint sealants for compliance with requirements indicated by referencing standard specifications and test methods.

**1.4 SUBMITTALS:**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Installer qualifications.
- C. Contractor certification.
- D. Manufacturer's installation instructions for each product used.
- E. Manufacturer's Literature and Data:
  - 1. Primers

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2016  
Issued for Construction

2. Sealing compound, each type, including compatibility when different sealants are in contact with each other.

F. Manufacturer warranty.

#### **1.5 PROJECT CONDITIONS:**

A. Environmental Limitations:

1. Do not proceed with installation of joint sealants under following conditions:
  - a. When joint substrates are wet.

B. Joint-Width Conditions:

1. Do not proceed with installation of joint sealants where joint widths are less than those allowed by joint sealant manufacturer for applications indicated.

C. Joint-Substrate Conditions:

1. Do not proceed with installation of joint sealants until contaminants capable of interfering with adhesion are removed from joint substrates.

#### **1.6 DELIVERY, HANDLING, AND STORAGE:**

- A. Deliver materials in manufacturers' original unopened containers, with brand names, date of manufacture, shelf life, and material designation clearly marked thereon.
- B. Carefully handle and store to prevent inclusion of foreign materials.
- C. Do not subject to sustained temperatures exceeding 32 degrees C (90 degrees F) or less than 5 degrees C (40 degrees F).

#### **1.7 DEFINITIONS:**

- A. Definitions of terms in accordance with ASTM C717 and as specified.
- B. Backing Rod: A type of sealant backing.
- C. Bond Breakers: A type of sealant backing.
- D. Filler: A sealant backing used behind a back-up rod.

#### **1.8 WARRANTY:**

- A. Construction Warranty: Comply with FAR clause 52.246-21 "Warranty of Construction".
- B. Manufacturer Warranty: Manufacturer shall warranty their sealant for a minimum of five (5) years from the date of installation and final acceptance by the Government. Submit manufacturer warranty.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2016  
Issued for Construction

### 1.9 APPLICABLE PUBLICATIONS:

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.
- B. ASTM International (ASTM):
- C509-06.....Elastomeric Cellular Preformed Gasket and Sealing Material
  - C612-14.....Mineral Fiber Block and Board Thermal Insulation
  - C717-14a.....Standard Terminology of Building Seals and Sealants
  - C734-06 (R2012).....Test Method for Low-Temperature Flexibility of Latex Sealants after Artificial Weathering
  - C794-10.....Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants
  - C919-12.....Use of Sealants in Acoustical Applications.
  - C920-14a.....Elastomeric Joint Sealants.
  - C1021-08 (R2014).....Laboratories Engaged in Testing of Building Sealants
  - C1193-13.....Standard Guide for Use of Joint Sealants.
  - C1248-08 (R2012).....Test Method for Staining of Porous Substrate by Joint Sealants
  - C1330-02 (R2013).....Cylindrical Sealant Backing for Use with Cold Liquid Applied Sealants
  - C1521-13.....Standard Practice for Evaluating Adhesion of Installed Weatherproofing Sealant Joints
  - D217-10.....Test Methods for Cone Penetration of Lubricating Grease
  - D412-06a (R2013).....Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension
  - D1056-14.....Specification for Flexible Cellular Materials—Sponge or Expanded Rubber
  - E84-09.....Surface Burning Characteristics of Building Materials
- C. Sealant, Waterproofing and Restoration Institute (SWRI).  
The Professionals' Guide
- D. Environmental Protection Agency (EPA):

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2016  
Issued for Construction

40 CFR 59(2014).....National Volatile Organic Compound Emission  
Standards for Consumer and Commercial Products

## **PART 2 - PRODUCTS**

### **2.1 SEALANTS:**

#### **A. Interior Sealants:**

1. VOC Content of Interior Sealants: Sealants and sealant primers used inside the weatherproofing system are to comply with the following limits for VOC content when calculated according to 40 CFR 59, (EPA Method 24):
  - a. Architectural Sealants: 250 g/L.
  - b. Sealant Primers for Nonporous Substrates: 250 g/L.
  - c. Sealant Primers for Porous Substrates: 775 g/L.
2. Vertical and Horizontal Surfaces: ASTM C920, Type S or M, Grade NS, Class 25, Use NT.
3. Provide location(s) of interior sealant as follows:
  - a. Typical narrow joint 6 mm, (1/4 inch) or less at walls and adjacent components.
  - b. Interior surfaces of exterior wall penetrations.

### **2.2 COLOR:**

- A. Color of sealants for other locations to be light gray or aluminum, unless otherwise indicated in construction documents.

### **2.3 JOINT SEALANT BACKING:**

- A. General: Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.
- B. Cylindrical Sealant Backings: ASTM C1330, of type indicated below and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance:
1. Type C: Closed-cell material with a surface skin.
- C. Elastomeric Tubing Sealant Backings: Neoprene, butyl, EPDM, or silicone tubing complying with ASTM D1056 or synthetic rubber (ASTM C509), nonabsorbent to water and gas, and capable of remaining resilient at temperatures down to minus 32 degrees C (minus 26 degrees F). Provide products with low compression set and of size and shape to provide a



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2016  
Issued for Construction

secondary seal, to control sealant depth, and otherwise contribute to optimum sealant performance.

- D. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint where such adhesion would result in sealant failure. Provide self-adhesive tape where applicable.

#### **2.4 FILLER:**

- A. Mineral fiberboard: ASTM C612, Class 1.
- B. Thickness same as joint width.
- C. Depth to fill void completely behind back-up rod.

#### **2.5 PRIMER:**

- A. As recommended by manufacturer of caulking or sealant material.
- B. Stain free type.

#### **2.6 CLEANERS-NON POROUS SURFACES:**

- A. Chemical cleaners compatible with sealant and acceptable to manufacturer of sealants and sealant backing material. Cleaners to be free of oily residues and other substances capable of staining or harming joint substrates and adjacent non-porous surfaces and formulated to promote adhesion of sealant and substrates.

### **PART 3 - EXECUTION**

#### **3.1 INSPECTION:**

- A. Inspect substrate surface for bond breaker contamination and unsound materials at adherent faces of sealant.
- B. Coordinate for repair and resolution of unsound substrate materials.
- C. Inspect for uniform joint widths and that dimensions are within tolerance established by sealant manufacturer.

#### **3.2 PREPARATIONS:**

- A. Prepare joints in accordance with manufacturer's instructions and SWRI (The Professionals' Guide).
- B. Clean surfaces of joint to receive caulking or sealants leaving joint dry to the touch, free from frost, moisture, grease, oil, wax, lacquer paint, or other foreign matter that would tend to destroy or impair adhesion.
  - 1. Clean porous joint substrate surfaces by brushing, grinding, blast cleaning, mechanical abrading, or a combination of these methods to

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2016  
Issued for Construction

- produce a clean, sound substrate capable of developing optimum bond with joint sealants.
2. Remove loose particles remaining from above cleaning operations by vacuuming or blowing out joints with oil-free compressed air. Porous joint surfaces include but are not limited to the following:
    - a. Concrete.
    - b. Masonry.
    - c. Unglazed surfaces of ceramic tile.
  3. Remove laitance and form-release agents from concrete.
- C. Do not cut or damage joint edges.
- D. Apply non-staining masking tape to face of surfaces adjacent to joints before applying primers, caulking, or sealing compounds.
1. Do not leave gaps between ends of sealant backings.
  2. Do not stretch, twist, puncture, or tear sealant backings.
  3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- E. Apply primer to sides of joints wherever required by compound manufacturer's printed instructions or as indicated by pre-construction joint sealant substrate test.
1. Apply primer prior to installation of back-up rod or bond breaker tape.
  2. Use brush or other approved means that will reach all parts of joints. Avoid application to or spillage onto adjacent substrate surfaces.

### **3.3 BACKING INSTALLATION:**

- A. Install backing material, to form joints enclosed on three sides as required for specified depth of sealant.
- B. Where deep joints occur, install filler to fill space behind the backing rod and position the rod at proper depth.
- C. Cut fillers installed by others to proper depth for installation of backing rod and sealants.
- D. Install backing rod, without puncturing the material, to a uniform depth, within plus or minus 3 mm (1/8 inch) for sealant depths specified.
- E. Where space for backing rod does not exist, install bond breaker tape strip at bottom (or back) of joint so sealant bonds only to two opposing surfaces.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2016  
Issued for Construction

### **3.4 SEALANT DEPTHS AND GEOMETRY:**

- A. At widths up to 6 mm (1/4 inch), sealant depth equal to width.
- B. At widths over 6 mm (1/4 inch), sealant depth 1/2 of width up to 13 mm (1/2 inch) maximum depth at center of joint with sealant thickness at center of joint approximately 1/2 of depth at adhesion surface.

### **3.5 INSTALLATION:**

- A. General:
  - 1. Do not install sealant type listed by manufacture as not suitable for use in locations specified.
  - 2. Apply caulking and sealing compound in accordance with manufacturer's printed instructions.
  - 3. Avoid dropping or smearing compound on adjacent surfaces.
  - 4. Fill joints solidly with compound and finish compound smooth.
  - 5. Tool exposed joints to form smooth and uniform beds, with slightly concave surface conforming to joint configuration per Figure 5A in ASTM C1193 unless shown or specified otherwise in construction documents. Remove masking tape immediately after tooling of sealant and before sealant face starts to "skin" over. Remove any excess sealant from adjacent surfaces of joint, leaving the working in a clean finished condition.
  - 6. Apply compounds with nozzle size to fit joint width.
  - 7. Test sealants for compatibility with each other and substrate. Use only compatible sealant. Submit test reports.
  - 8. Replace sealant which is damaged during construction process.
- C. For application of sealants, follow requirements of ASTM C1193 unless specified otherwise. Take all necessary steps to prevent three-sided adhesion of sealants.
- D. Interior Sealants: Where gypsum board partitions are of sound rated, fire rated, or smoke barrier construction, follow requirements of ASTM C919 only to seal all cut-outs and intersections with the adjoining construction unless specified otherwise.
  - 1. Apply a 6 mm (1/4 inch) minimum bead of sealant each side of runners (tracks), including those used at partition intersections with dissimilar wall construction.
  - 2. Coordinate with application of gypsum board to install sealant immediately prior to application of gypsum board.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2016  
Issued for Construction

3. Partition intersections: Seal edges of face layer of gypsum board abutting intersecting partitions, before taping and finishing or application of veneer plaster-joint reinforcing.
4. Openings: Apply a 6 mm (1/4 inch) bead of sealant around all cutouts to seal openings of electrical boxes, ducts, pipes and similar penetrations. To seal electrical boxes, seal sides and backs.

### 3.6 CLEANING:

- A. Fresh compound accidentally smeared on adjoining surfaces: Scrape off immediately and rub clean with a solvent as recommended by manufacturer of the adjacent material or if not otherwise indicated by the caulking or sealant manufacturer.
- B. Leave adjacent surfaces in a clean and unstained condition.

- - - E N D - - -

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

08-01-16  
January 13, 2016  
Issued for Construction

**SECTION 08 11 13**  
**HOLLOW METAL DOORS AND FRAMES**

**PART 1 - GENERAL**

**1.1 SUMMARY**

A. Section Includes:

1. Hollow metal door frames for wood doors at interior locations.

**1.2 RELATED REQUIREMENTS**

- A. Frames fabricated of structural steel: Section 05 50 00, METAL FABRICATIONS.
- B. Door Hardware: Section 08 71 00, DOOR HARDWARE.
- C. Glazing: Section 08 80 00, GLAZING.

**1.3 APPLICABLE PUBLICATIONS**

- A. Comply with references to extent specified in this section.
- B. American National Standard Institute (ANSI):
  1. A250.8-2014 - Standard Steel Doors and Frames.
- C. ASTM International (ASTM):
  1. A240/A240M-15b - Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
  2. A653/A653M-15 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip.
  3. A1008/A1008M-15 - Steel, Sheet, Cold-Rolled, Carbon, Structural, High Strength Low Alloy and High Strength Low Alloy with Improved Formability, Solution Hardened, and Bake Hardenable.
- D. Master Painters Institute (MPI):
  1. No. 18 - Primer, Zinc Rich, Organic.
- E. National Association of Architectural Metal Manufacturers (NAAMM):
  1. AMP 500-06 - Metal Finishes Manual.
- F. National Fire Protection Association (NFPA):
  1. 80-16 - Fire Doors and Other Opening Protectives.
- G. UL LLC (UL):
  1. 10C-09 - Positive Pressure Fire Tests of Door Assemblies.
  2. 1784-15 - Air Leakage Tests of Door Assemblies and Other Opening Protectives.

**1.4 SUBMITTALS**

- A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

08-01-16  
January 13, 2016  
Issued for Construction

B. Submittal Drawings:

1. Show size, configuration, and fabrication and installation details.

C. Manufacturer's Literature and Data:

1. Description of each product.
2. Include schedule showing each door and frame requirements fire label for openings.
3. Installation instructions.

D. Test reports: Certify each product complies products comply with specifications.

**1.5 QUALITY ASSURANCE**

A. Manufacturer Qualifications:

1. Regularly manufactures specified products.

**1.6 DELIVERY**

- A. Fasten temporary steel spreaders across the bottom of each door frame before shipment.
- B. Deliver products in manufacturer's original sealed packaging.
- C. Mark packaging, legibly. Indicate manufacturer's name or brand, type, production run number, and manufacture date.
- D. Before installation, return or dispose of products within distorted, damaged, or opened packaging.

**1.7 STORAGE AND HANDLING**

- A. Store products indoors in dry, weathertight conditioned facility.
- B. Protect products from damage during handling and construction operations.

**1.8 WARRANTY**

**PART 2 - PRODUCTS**

**2.1 SYSTEM PERFORMANCE**

- A. Design hollow metal frames complying with specified performance:
  1. Fire Doors and Frames: UL 10C; NFPA 80 labeled.
    - a. Fire Ratings: See drawings.

**2.2 MATERIALS**

- A. Sheet Steel: ASTM A1008/A1008M, cold-rolled.
- B. Galvanized Sheet Steel: ASTM A653.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

08-01-16  
January 13, 2016  
Issued for Construction

### **2.3 PRODUCTS - GENERAL**

- A. Basis of Design: Section 09 06 00, SCHEDULE FOR FINISHES.

### **2.4 HOLLOW METAL FRAMES**

- A. Hollow Metal Frames: ANSI A250.8; face welded. See drawings for sizes and designs.
  - 1. Interior Frames:
    - a. Wood Doors: 1.3 mm (0.053 inch) thick.
    - b. Interior Automatic Operator Door Frames: 1.7 mm (0.067 inch) thick.
- B. Frame Materials:
  - 1. Interior Frames: Galvanized sheet steel minimum Z120 or ZF120 (G40 or A40) coating.

### **2.5 FABRICATION**

- A. Hardware Preparation: ANSI A250.8; for hardware specified in Section 08 71 00, DOOR HARDWARE.
- B. Hollow Metal Frame Fabrication:
  - 1. Fasten mortar guards to back of hardware reinforcements, except on lead-lined frames.
  - 2. Frame Anchors:
    - a. Floor anchors:
      - 1) Provide extension type floor anchors to compensate for depth of floor fills.
      - 2) Provide 1.3 mm (0.053 inch) thick steel clip angles welded to jamb and drilled to receive floor fasteners.
    - b. Jamb anchors:
      - 1) Place anchors on jambs:
        - a) Near top and bottom of each frame.
        - b) At intermediate points at maximum 600 mm (24 inches) spacing.
      - 2) Form jamb anchors from steel minimum 1 mm (0.042 inch) thick.
      - 3) Anchors for stud partitions: Provide tabs for securing anchor to sides of studs. Provide one of the following:
        - a) Welded type.
      - 4) Modify frame anchors to fit special frame and wall construction.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

08-01-16  
January 13, 2016  
Issued for Construction

## **2.6 FINISHES**

- A. Galvanized Steel: ANSI A250.8; shop primed.
- B. Finish exposed surfaces after fabrication.

## **2.7 ACCESSORIES**

- A. Primers: ANSI A250.8.
- B. Barrier Coating: ASTM D1187/D1187M.
- C. Welding Materials: AWS D1.1/D1.1M, type to suit application.
- D. Fasteners: Galvanized steel.
  - 1. Metal Framing: Steel drill screws.
- E. Anchors: Galvanized steel.
- F. Galvanizing Repair Paint: MPI No. 18.

# **PART 3 - EXECUTION**

## **3.1 PREPARATION**

- A. Examine and verify substrate suitability for product installation.
- B. Protect existing construction and completed work from damage.

## **3.2 INSTALLATION - GENERAL**

- A. Install products according to manufacturer's instructions and approved submittal drawings.
  - 1. When manufacturer's instructions deviate from specifications, submit proposed resolution for Contracting Officer's Representative consideration.
  - 2. Install fire doors and frames according to NFPA 80.

## **3.3 FRAME INSTALLATION**

- A. Plumb, align, and brace frames until permanent anchors are set.
  - 1. Use triangular bracing near each corner on both sides of frames with temporary wood spreaders at midpoint.
  - 2. Use wood spreaders at bottom of frame when shipping spreader is removed.
  - 3. Where construction permits concealment, leave shipping spreaders in place after installation, otherwise remove spreaders when frames are set and anchored.
  - 4. Remove wood spreaders and braces when walls are built and jamb anchors are secured.
- B. Floor Anchors:
  - 1. Anchor frame jambs to floor with two expansion bolts.



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

08-01-16  
January 13, 2016  
Issued for Construction

- a. Other Frames: Use 6 mm (1/4 inch) diameter bolts.
- 2. Power actuated drive pins are acceptable to secure frame anchors to concrete floors.
- C. Jamb Anchors:
  - 1. Metal Framed Walls: Secure anchors to sides of studs with two fasteners through anchor tabs.
- D. Touch up damaged factory finishes.
  - 1. Repair galvanized surfaces with galvanized repair paint.

### **3.4 CLEANING**

- A. Clean exposed door and frame surfaces. Remove contaminants and stains.

### **3.5 PROTECTION**

- A. Protect doors and frames from traffic and construction operations.
- B. Remove protective materials immediately before acceptance.
- C. Repair damage.

- - - E N D - - -

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

08-01-16  
January 13, 2016  
Issued for Construction

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

**SECTION 08 14 00**  
**INTERIOR WOOD DOORS**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Interior flush wood doors transparent finish.
    - a. Fire rated doors.

**1.2 RELATED REQUIREMENTS**

- A. Door Hardware including hardware location (height): Section 08 71 00, DOOR HARDWARE.
- B. Installation of Doors and Hardware: Section 08 11 13, HOLLOW METAL DOORS AND FRAMES and Section 08 71 00, DOOR HARDWARE.
- C. Door Finish: Section 09 06 00, SCHEDULE FOR FINISHES.

**1.3 APPLICABLE PUBLICATIONS**

- A. Comply with references to extent specified in this section.
- B. American National Standards Institute/Window and Door Manufacturers Association (ANSI/WDMA):
  - 1. I.S. 1A-13 - Architectural Wood Flush Doors.
  - 2. I.S
- C. National Fire Protection Association (NFPA):
  - 1. 80-16 - Fire Doors and Other Opening Protectives.
  - 2. 252-12 - Fire Tests of Door Assemblies.
- D. UL LLC (UL):
  - 1. 10C-09 - Positive Pressure Fire Tests of Door Assemblies.
- E. Window and Door Manufacturers Association (WDMA):
  - 1. TM 7-14 - Cycle-Slam Test.
  - 2. TM 8-14 - Hinge Loading Test.
  - 3. TM 10-14 - Screw Holding Capacity.

**1.4 SUBMITTALS**

- A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Submittal Drawings:
  - 1. Show size, configuration, and fabrication and installation details.
  - 2. Include details of glazing.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

3. Indicate project specific requirements not included in Manufacturer's Literature and Data submittal.
- C. Manufacturer's Literature and Data:
  1. Description of each product.
  2. Fire rated doors showing conformance with NFPA 80.
- CI. Samples:
  1. Veneer sample 200 mm by 275 mm (8 inch by 11 inch) showing specified wood species sanded to receive a transparent finish. Factory finish veneer sample where the prefinished option is accepted.
- CII. Test Reports: Indicate each product complies products comply with specifications.
  1. Screw Holding Capacity Test.
  2. Cycle-Slam Test.
  3. Hinge-Loading Test.
- CIII. Operation and Maintenance Data:
  1. Care instructions for each exposed finish product.

#### **1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications:
  1. Regularly and presently manufactures specified products.

#### **1.6 DELIVERY**

- A. Deliver products in manufacturer's original sealed packaging.
  1. Minimum 0.15 mm (6 mil) polyethylene bags or cardboard packaging to remain unbroken during delivery and storage.
- B. Mark packaging, legibly. Indicate manufacturer's name or brand, type, and manufacture date.
  1. Identify door opening corresponding to Door Schedule.
- C. Before installation, return or dispose of products within distorted, damaged, or opened packaging.

#### **1.7 STORAGE AND HANDLING**

- A. Store products indoors in dry, weathertight, conditioned facility.
  1. Store doors according to ANSI/WDMA I.S. 1A.
- B. Protect products from damage during handling and construction operations.

#### **1.8 FIELD CONDITIONS**

- A. Environment:

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

1. Product Temperature: Minimum 21 degrees C (70 degrees F) for minimum 48 hours before installation.
2. Work Area Ambient Temperature Range: 21 to 27 degrees C (70 to 80 degrees F) continuously, beginning 48 hours before installation.
  - a. Comply with door manufacturer's instructions for relative humidity.

#### **1.9 WARRANTY**

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction."
- B. Manufacturer's Warranty: Warrant interior factory finished flush wood doors against material and manufacturing defects.
  1. Warranty Period: Lifetime of original installation.

### **PART 2 - PRODUCTS**

#### **2.1 PRODUCTS - GENERAL**

- A. Basis of Design: Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Provide each product from one manufacturer.

#### **2.2 FLUSH WOOD DOORS**

- A. General:
  1. ANSI/WDMA I.S. 1A, Extra Heavy Duty.
  2. Adhesive: Type II.
  3. Core: Structural composite lumber, except when mineral core is required for fire rating.
  4. Thickness: 44 mm (1-3/4 inches).
- B. Faces:
  1. ANSI/WDMA I.S. 1A.
  2. One species throughout project unless scheduled or otherwise shown.
  3. Transparent Finished Faces: Premium Grade. rotary cut, white maple or to match existing.
    - a. A Grade face veneer.
    - b. Match face veneers for doors for uniform effect of color and grain at joints.
    - c. Door Edges: Same species as door face veneer, except maple is acceptable for stile face veneer on birch doors.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

- d. In existing buildings, where doors are required to have transparent finish, use wood species, grade, and assembly of face veneers to match adjacent existing doors.
- C. Wood For Stops, Louvers, Muntins and Moldings For Flush Doors Required to Have Transparent Finish:
  - 1. Solid wood of same species as face veneer, except maple is acceptable on birch doors.
- D. Fire-Rated Wood Doors:
  - 1. Fire Resistance Rating:
    - a. B Label: 1-1/2 hours.
  - 2. Labels:
    - a. Comply with NFPA 252, UL 10C, and labeled by qualified testing and inspection agency showing fire resistance rating.
    - b. Metal labels with raised or incised markings.
  - 3. Performance Criteria for Stiles of Doors Utilizing Standard Mortise Leaf Hinges:
    - a. Hinge Loading: WDMA TM 8. Average of 10 test samples for Extra Heavy Duty doors.
    - b. Direct Screw Withdrawal: WDMA TM 10 for Extra Heavy Duty doors. Average of 10 test samples using a steel, fully threaded #12 wood screw.
    - c. Cycle-Slam: 1,000,000 cycles with no loose hinge screws or other visible signs of failure when tested according to WDMA TM 7.
  - 4. Hardware Reinforcement:
    - a. Provide fire rated doors with hardware reinforcement blocking.
    - b. Size of lock blocks as required to secure hardware specified.
    - c. Top, Bottom and Intermediate Rail Blocks: Minimum 125 mm (5 inches) by full core width.
    - d. Reinforcement blocking in compliance with labeling requirements.
    - e. Mineral material similar to core is not acceptable.
  - 5. Other Core Components: Manufacturer's standard as allowed by labeling requirements.
  - 6. Glazed Vision Panel Frame: Wood approved for use in labeled doors.

## 2.3 FABRICATION

- A. Factory machine interior wood doors to receive hardware, bevels, undercuts, cutouts, accessories and fitting for frame.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

1. Factory fit fire rated doors according to NFPA 80.
- B. Rout doors for hardware using templates and location heights specified in Section 08 71 00, DOOR HARDWARE.
- C. Factory fit doors to frame, bevel lock edge of doors 3 mm (1/8 inch) for each 50 mm (2 inches) of door thickness.
- D. Clearances between Doors and Frames and Floors:
  1. Fire Rated Doors: Comply with NFPA 80.
    - a. Other Door Bottoms: Maximum 3 mm (1/8 inch) clearance at the jambs, heads, and meeting stiles, and a 19 mm (3/4 inch) clearance at bottom, except as otherwise specified.
  2. Door Jambs, Heads, and Meeting Stiles: Maximum 3 mm (1/8 inch).
- E. Provide cutouts for glazed openings.
- F. Finish surfaces, including both faces, top and bottom and edges of the doors smooth to touch.
- G. Identify each door on top edge.
  1. Mark with stamp, brand or other indelible mark, giving manufacturer's name, door's trade name, construction of door, date of manufacture and quality.
  2. Mark door or provide separate certification including name of inspection organization.
  3. Identify door manufacturing standard, including glue type.
  4. Identify veneer and quality certification.

## **2.4 FINISHES**

- A. Factory Transparent Finish:
  1. Factory finish flush wood doors.
    - a. ANSI/WDMA I.S. 1A Section F-3 Finish System Descriptions for System 5, Conversion Varnish or System 7, Catalyzed Vinyl.

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Examine and verify substrate suitability for product installation.
  1. Verify door frames are properly anchored.
  2. Verify door frames are plumb, square, in plane, and within tolerances for door installation.
- B. Protect existing construction and completed work from damage.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

### **3.2 INSTALLATION**

- A. Install products according to manufacturer's instructions and approved submittal drawings.
  - 1. Install fire rated doors according to NFPA 80.
  - 2. When manufacturer's instructions deviate from specifications, submit proposed resolution for Contracting Officer's Representative consideration.

### **3.3 PROTECTION**

- A. After installation, place shipping container over door and tape in place.
  - 1. Do not apply tape to door faces and edges.
- B. Provide protective covering over exposed hardware in addition to covering door.
- C. Maintain covering in good condition until removal is directed by Contracting Officer's Representative.

- - E N D - -



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

**SECTION 08 71 00**  
**DOOR HARDWARE**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Door hardware and related items necessary for complete installation and operation of doors.

**1.2 RELATED WORK**

- A. Caulking: Section 07 92 00 JOINT SEALANTS.
- B. Application of Hardware: Section 08 14 00, WOOD DOORS and Section 08 11 13, HOLLOW METAL DOORS AND FRAMES. C. Finishes: Section 09 06 00, SCHEDULE FOR FINISHES.
- D. Painting: Section 09 91 00, PAINTING.

**1.3 GENERAL**

- A. All hardware shall comply with UFAS, (Uniform Federal Accessible Standards) unless specified otherwise.
- B. Provide rated door hardware assemblies where required by most current version of the International Building Code (IBC).
- C. Hardware for Labeled Fire Doors and Exit Doors: Conform to requirements of NFPA 80 for labeled fire doors and to NFPA 101 for exit doors, as well as to other requirements specified. Provide hardware listed by UL, except where heavier materials, large size, or better grades are specified herein under paragraph HARDWARE SETS. In lieu of UL labeling and listing, test reports from a nationally recognized testing agency may be submitted showing that hardware has been tested in accordance with UL test methods and that it conforms to NFPA requirements.
- D. Hardware for application on metal and wood doors and frames shall be made to standard templates. Furnish templates to the fabricator of these items in sufficient time so as not to delay the construction.

**1.4 WARRANTY**

- A. Automatic door operators shall be subject to the terms of FAR Clause 52.246-21, except that the Warranty period shall be two years in lieu of one year for all items except as noted below:
  - 1. Locks, latchsets, and panic hardware: 5 years.
  - 2. Door closers and continuous hinges: 10 years.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

### 1.5 MAINTENANCE MANUALS

- A. In accordance with Section 01 00 00, GENERAL REQUIREMENTS Article titled "INSTRUCTIONS", furnish maintenance manuals and instructions on all door hardware. Provide installation instructions with the submittal documentation.

### 1.6 SUBMITTALS

- A. Submittals shall be in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES. Submit 6 copies of the schedule per Section 01 33 23. Submit 2 final copies of the final approved schedules to VAMC Locksmith as record copies (VISN Locksmith if the VAMC does not have a locksmith).
- B. Hardware Schedule: Prepare and submit hardware schedule in the following form:

Hardware Item	Quantity	Size	Reference Publication Type No.	Finish	Mfr. Name and Catalog No.	Key Control Symbols	UL Mark (if fire rated and listed)	ANSI/BHMA Finish Designation

- C. Samples and Manufacturers' Literature:

1. Samples: All hardware items (proposed for the project) that have not been previously approved by Builders Hardware Manufacturers Association shall be submitted for approval. Tag and mark all items with manufacturer's name, catalog number and project number.
2. Samples are not required for hardware listed in the specifications by manufacturer's catalog number, if the contractor proposes to use the manufacturer's product specified.

- D. Certificate of Compliance and Test Reports: Submit certificates that hardware conforms to the requirements specified herein. Certificates shall be accompanied by copies of reports as referenced. The testing shall have been conducted either in the manufacturer's plant and certified by an independent testing laboratory or conducted in an independent laboratory, within four years of submittal of reports for approval.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

### **1.7 DELIVERY AND MARKING**

- A. Deliver items of hardware to job site in their original containers, complete with necessary appurtenances including screws, keys, and instructions. Tag one of each different item of hardware and deliver to Resident Engineer for reference purposes. Tag shall identify items by Project Specification number and manufacturer's catalog number. These items shall remain on file in Resident Engineer's office until all other similar items have been installed in project, at which time the Resident Engineer will deliver items on file to Contractor for installation in predetermined locations on the project.

### **1.8 PREINSTALLATION MEETING**

- A. Convene a preinstallation meeting not less than 30 days before start of installation of door hardware. Require attendance of parties directly affecting work of this section, including Contractor and Installer, Architect, Project Engineer and VA Locksmith, Hardware Consultant, and Hardware Manufacturer's Representative. Review the following:
1. Inspection of door hardware.
  2. Job and surface readiness.
  3. Coordination with other work.
  4. Protection of hardware surfaces.
  5. Substrate surface protection.
  6. Installation.
  7. Adjusting.
  8. Repair.
  9. Field quality control.
  10. Cleaning.

### **1.9 INSTRUCTIONS**

- A. Hardware Set Symbols on Drawings: Except for protective plates, door stops, mutes, thresholds and the like specified herein, hardware requirements for each door are indicated on drawings by symbols. Symbols for hardware sets consist of letters (e.g., "HW") followed by a number. Each number designates a set of hardware items applicable to a door type.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

#### 1.10 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only. In text, hardware items are referred to by series, types, etc., listed in such specifications and standards, except as otherwise specified.
- B. American Society for Testing and Materials (ASTM):
- F883-04.....Padlocks
  - E2180-07.....Standard Test Method for Determining the  
Activity of Incorporated Antimicrobial Agent(s)  
In Polymeric or Hydrophobic Materials
- C. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):
- A156.1-06.....Butts and Hinges
  - A156.2-03.....Bored and Pre-assembled Locks and Latches
  - A156.3-08.....Exit Devices, Coordinators, and Auto Flush  
Bolts
  - A156.4-08.....Door Controls (Closers)
  - A156.5-14.....Cylinders and Input Devices for Locks.
  - A156.6-05.....Architectural Door Trim
  - A156.8-05.....Door Controls-Overhead Stops and Holders
  - A156.11-14.....Cabinet Locks
  - A156.12-05 .....Interconnected Locks and Latches
  - A156.13-05.....Mortise Locks and Latches Series 1000
  - A156.14-07 .....Sliding and Folding Door Hardware
  - A156.15-06.....Release Devices-Closer Holder, Electromagnetic  
and Electromechanical
  - A156.16-08.....Auxiliary Hardware
  - A156.17-04 .....Self-Closing Hinges and Pivots
  - A156.18-06.....Materials and Finishes
  - A156.20-06 .....Strap and Tee Hinges, and Hasps
  - A156.21-09.....Thresholds
  - A156.22-05.....Door Gasketing and Edge Seal Systems
  - A156.23-04.....Electromagnetic Locks
  - A156.24-03.....Delayed Egress Locking Systems
  - A156.25-07 .....Electrified Locking Devices
  - A156.26-06.....Continuous Hinges

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project No. 650-16-011

01-01-16  
 January 13, 2017  
 Issued for Construction

A156.28-07 .....Master Keying Systems  
 A156.29-07 .....Exit Locks and Alarms  
 A156.30-03 .....High Security Cylinders  
 A156.31-07 .....Electric Strikes and Frame Mounted Actuators  
 A156.36-10.....Auxiliary Locks  
 A250.8-03.....Standard Steel Doors and Frames

D. National Fire Protection Association (NFPA):

80-10.....Fire Doors and Other Opening Protectives  
 101-09.....Life Safety Code

E. Underwriters Laboratories, Inc. (UL):

Building Materials Directory (2008)

## **PART 2 - PRODUCTS**

### **2.1 CONTINUOUS HINGES**

A. ANSI/BHMA A156.26, Grade 1-600.

1. Listed under Category N in BHMA's "Certified Product Directory."

B. General: Minimum 0.120-inch- (3.0-mm-) thick, hinge leaves with minimum overall width of 4 inches (102 mm); fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete

C. Continuous, Barrel-Type Hinges: Hinge with knuckles formed around a Teflon-coated 6.35mm (0.25-inch) minimum diameter pin that extends entire length of hinge.

3. Base Metal for Hinges for Fire-Rated Assemblies:Stainless steel.

5. Where required to clear adjacent casing, trim, and wall conditions and allow full door swing, provide wide throw hinges of minimum width required.

6. Provide with manufacturer's cut-outs for separate mortised power transfers.

8. Where models are specified that provide an integral wrap-around edge guard for the hinge edge of the door, provide manufacturer's adjustable threaded stud and machine screw mechanism to allow the door to be adjusted within the wrap-around edge guard.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

## **2.2 ARMOR PLATES, KICK PLATES, MOP PLATES AND DOOR EDGING**

- A. Conform to ANSI Standard A156.6.
- B. Provide protective plates as specified below:
  - 1. Kick plates, mop plates and armor plates of metal, Type J100 series.
  - 2. Provide kick plates and mop plates where specified. Kick plates shall be 254 mm (10 inches) or 305 mm (12 inches) high. Mop plates shall be 152 mm (6 inches) high. Both kick and mop plates shall be minimum 1.27 mm (0.050 inches) thick. Provide kick and mop plates beveled on all 4 edges (B4E). On push side of doors where jamb stop extends to floor, make kick plates 38 mm (1-1/2 inches) less than width of door, except pairs of metal doors which shall have plates 25 mm (1 inch) less than width of each door. Extend all other kick and mop plates to within 6 mm (1/4 inch) of each edge of doors. Kick and mop plates shall butt astragals. For jamb stop requirements, see specification sections pertaining to door frames.

## **2.3 EXIT DEVICES**

- A. Conform to ANSI Standard A156.3. Exit devices shall be Grade 1; type and function are specified in hardware sets. Provide flush with finished floor strikes for vertical rod exit devices in interior of building. Trim shall have cast satin stainless steel lever handles of design similar to locksets, unless otherwise specified. Provide key cylinders for keyed operating trim and, where specified, cylinder dogging.
- B. Surface vertical rod panics shall only be provided less bottom rod; provide fire pins as required by exit device and door fire labels. Do not provide surface vertical rod panics at exterior doors.
- C. Exit devices for fire doors shall comply with Underwriters Laboratories, Inc., requirements for Fire Exit Hardware. Submit proof of compliance.
- C. Mutes: Conform to ANSI A156.16. Provide door mutes or door silencers Type L03011 or L03021, depending on frame material, of white or light gray color, on each steel or wood door frame, except at fire-rated frames, lead-lined frames and frames for sound-resistant, lightproof and electromagnetically shielded doors. Furnish 3 mutes for single

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

doors and 2 mutes for each pair of doors, except double-acting doors.  
Provide 4 mutes or silencers for frames for each Dutch type door.  
Provide 2 mutes for each edge of sliding door which would contact door frame.

## 2.4 FINISHES

- A. Exposed surfaces of hardware shall have ANSI A156.18, finishes as specified below. Finishes on all hinges, pivots, closers, thresholds, etc., shall be as specified below under "Miscellaneous Finishes." For field painting (final coat) of ferrous hardware, see Section 09 91 00, PAINTING.
- B. 626 or 630: All surfaces on exterior and interior of buildings, except where other finishes are specified.
- C. Miscellaneous Finishes:
2. Hinges --interior doors: 652 or 630.
  3. Pivots: Match door trim.
- D. Hardware Finishes for Existing Buildings: U.S. Standard finishes shall match finishes of hardware in (similar) existing spaces except where otherwise specified.

## 2.5 BASE METALS

- A. Apply specified U.S. Standard finishes on different base metals as following:

Finish	Base Metal
652	Steel
626	Brass or bronze
630	Stainless steel

## PART 3 - EXECUTION

### 3.1 HARDWARE HEIGHTS

- A. For existing buildings locate hardware on doors at heights to match existing hardware. The Contractor shall visit the site, verify location of existing hardware and submit locations to VA Resident Engineer for approval.

### 3.2 INSTALLATION

- C. Hinge leaves shall be sufficiently wide to allow doors to swing clear of door frame trim and surrounding conditions.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

D.

### 3.3 FINAL INSPECTION

- A. Installer to provide letter to VA Resident/Project Engineer that upon completion, installer has visited the Project and has accomplished the following:
1. Re-adjust hardware.
  2. Evaluate maintenance procedures and recommend changes or additions, and instruct VA personnel.
  3. Identify items that have deteriorated or failed.
  4. Submit written report identifying problems.

### 3.4 DEMONSTRATION

- A. Demonstrate efficacy of mechanical hardware and electrical, and electronic hardware systems, including adjustment and maintenance procedures, to satisfaction of Resident/Project Engineer and VA Locksmith.

### 3.5 HARDWARE SETS

- A. Following sets of hardware correspond to hardware symbols shown on drawings. Only those hardware sets that are shown on drawings will be required. Disregard hardware sets listed in specifications but not shown on drawings.

#### ELECTRIC HARDWARE ABBREVIATIONS LEGEND:

ADO = Automatic Door Operator

EMCH = Electro-Mechanical Closer-Holder

MHO = Magnetic Hold-Open (wall- or floor-mounted)

### INTERIOR PAIRS OF DOORS

#### HWS 1: Basement Doors - Rated

Re-use existing: Electromagnetic Door Holder (2), Power Transfer (2), Exit Device (2), Protection Plate (2)

New: Continuous Hinge with cutout for existing Power Transfer (2)



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

HSW 2: All other Doors except 5th Floor - Rated

Re-use existing: Automatic Door Operator (1), Power Transfer (2), Exit Device (2), Protection Plate (2)

New: Continuous Hinge with cutout for existing Power Transfer (2)

HWS 3: 5th Floor - Rated

Re-use existing: Power Transfer (2)

New: Continuous Hinge with cutout for existing Power Transfer (2), Automatic Door Operator (1), Exit Device (Surface mounted with top rod only to match existing) (2), Protection Plate (2)

- - - E N D - - -

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

**SECTION 08 71 13**  
**AUTOMATIC DOOR OPERATORS**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Automatic operators for swinging.

**1.2 RELATED REQUIREMENTS**

- A. Door Hardware: Section 08 71 00, DOOR HARDWARE.

**1.3 APPLICABLE PUBLICATIONS**

- A. Comply with references to extent specified in this section.
- B. ASTM International (ASTM):
  - 1. B209-14 - Aluminum and Aluminum-Alloy Sheet and Plate.
  - 2. A1008/A1008M-15 - Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Baked Hardenable.
- C. Builders Hardware Manufacturers Association (BHMA):
  - 1. BHMA A156.10-11 - Power Operated Pedestrian Doors.
- D. National Fire Protection Association (NFPA):
  - 1. 101-15 - Life Safety Code.
- E. Underwriters Laboratories (UL):
  - 1. 325-13 - Standard for Doors, Drapery, Gate, Louver, and Window Operators and Systems.

**1.4 SUBMITTALS**

- A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Submittal Drawings:
  - 1. Show size, configuration, and fabrication and installation details.
- C. Manufacturer's Literature and Data:
  - 1. Description of each product.
  - 2. Installation instructions.
  - 3. Warranty.
- D. Test reports: Certify each product complies with specifications.
- E. Qualifications: Substantiate qualifications comply with specifications.
- F. Operation and Maintenance Data:
  - 1. Care instructions for each exposed finish product.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

2. Start-up, maintenance, troubleshooting, emergency, and shut-down instructions for each operational product.

#### **1.5 QUALITY ASSURANCE**

- A. Manufacturer's Qualifications:
  1. Regularly manufactures specified products.
  2. Manufactured specified products with satisfactory service on five similar installations for minimum five years.
    - a. Provide contact names and addresses for completed projects when requested by Contracting Officer's Representative.
- B. Installer's Qualifications: Experienced installer, approved by the manufacturer.

#### **1.6 WARRANTY**

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction."
- B. Manufacturer's Warranty: Warrant automatic door operators against material and manufacturing defects.
  1. Warranty Period: Two years.

### **PART 2 - PRODUCTS**

#### **2.1 SYSTEM PERFORMANCE**

- A. Comply with requirements of BHMA A156.10. Unless otherwise indicated on Drawings, provide operators that move doors from fully closed to fully opened position in seven seconds maximum time interval, when speed adjustment is at maximum setting.
- B. Equipment: Conforming to UL 325. Provide key operated power disconnect wall switch for each door installation.
- C. Electrical Wiring, Connections and Equipment: Motors, starters, controls, associated devices, and interconnecting wiring required for installation.

#### **2.2 PRODUCTS - GENERAL**

- A. Basis of Design: Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Provide door operators from one manufacturer.
- C. Provide one type of operator throughout project.

#### **2.3 SWING DOOR OPERATORS**

- A. General:

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

1. Type: Institutional type.
  2. Size: As recommended by manufacturer for door weight and sizes.
- B. Function:
1. Provide operators, enclosed in housing, permitting opening of door by energizing motor and stopped by electrically reducing Voltage and stalling motor against mechanical stop.
  2. Door to close by means of spring energy, and closing force controlled by gear system and motor being used as dynamic brake without power, or controlled by hydraulic closer in electro-hydraulic operators.
  3. Opening and Closing Speeds: Field adjustable.
  4. Operators with checking mechanism providing cushioning action at last part of door travel, in both opening and closing cycle.
  5. Operators capable of recycling doors instantaneously to full open position from any point in closing cycle when control switch is activated.
  6. When automatic power is interrupted or shut-off, permit doors to easily open manually without damage to automatic operator system.
- C. Connect hardware with drive arm attached to door with pin linkage rotating in a self-lubricating bearing. Prevent doors from pivoting on shaft of operator.
- D. Operator Housing:
1. ASTM B209, Type 6063-T5 aluminum alloy, 112 mm (4-1/2 inches) wide by 140 mm (5.5 inches) high by 3.2 mm (0.125 inch) thick, aluminum extrusions with enclosed end caps for application to 100 mm (4 inches) and larger frame systems.
- E. Power Operator:
1. Completely assembled and sealed unit including gear drive transmission, mechanical spring and bearings, located in aluminum case and filled with special lubricant for extreme temperature conditions. Rubber mounted units with provisions for easy maintenance and replacement, without removing door from pivots or frame.
- F. Motors:
1. Provide with interlock to prevent operation when doors are electrically locked from opening.
- G. Electrical Control:

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

1. Self-contained electrical control unit, including necessary transformers, relays, rectifiers, and other electronic components for proper operation and switching of power operator.
2. Connecting Harnesses: Interlocking plugs.

H. Accessories:

1. Metal mounting supports, brackets and other accessories necessary for installation of operators at head of door frames.

I. Microprocessor Controls:

1. Multi-function microprocessor control providing adjustable hold open time (1-30 seconds) with fully adjustable opening speed, LED indications for sensor input signals and operator status and power assist close options. Control capable of receiving activation signals from any device with normally open dry contact output.
2. Hold doors held open by low Voltage applied to the continuous duty motor.
3. Controls:
  - a. Adjustable safety circuit that monitors door operation and stops opening direction of door if obstruction is sensed.
  - b. Recycle feature that reopens door if obstruction is sensed at any point during closing cycle.
  - c. Standard three position key switch with functions for ON, OFF, and HOLD OPEN, mounted on operator enclosure, door frame, or wall, as indicated on drawings.

**2.4 POWER UNITS**

- A. Self-contained, electric operated and independent of door operator.
  1. Capacity and size of power circuits according to automatic door operator manufacturer's specifications and Division 26 - ELECTRICAL.

**2.5 DOOR CONTROLS**

- A. Control Devices: BHMA A156.10; control opening and closing functions.
- B. Open doors when control device is actuated; hold doors in open positions; then, close doors after anadjustable time period, unless safety device or reactivated control interrupts operation.
- C. Manual Controls:
  1. Push Plate Wall Switch: Recessed type, stainless steel push plate minimum 100 mm by 100 mm (4 inch by 4 inch), with 13 mm (1/2 inch) high letters "To Operate Door-Push" engraved on face of plate.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

D. Motion Detector:

1. Mounting: Surface or concealed.
2. Detection Area: 1500 mm (60 inches) deep and 1500 mm (60 inches) across, plus or minus 150 mm (6 inches).
3. Response Time: 25 milliseconds, maximum.
4. Control Power: 24 Volt DC.
5. Design units to be unaffected by cleaning material, solvents, dust, dirt and outdoor weather conditions.

**2.6 SAFETY DEVICES**

- A. Swing Doors: Install presence sensor on pull side of door to detect any person standing in door swing path and prevent door from

**PART 3 - EXECUTION**

**3.1 PREPARATION**

- A. Examine and verify substrate suitability for product installation.
1. Verify door opening is correctly sized and within acceptable tolerances.
- B. Protect existing construction and completed work from damage.

**3.2 INSTALLATION**

- A. Install products according to manufacturer's instructions and approved submittal drawings.
1. When manufacturer's instructions deviate from specifications, submit proposed resolution for Contracting Officer's Representative consideration.
- B. Coordinate door installation with other related work.
- C. Install manual controls and power disconnect switches recessed or semi-flush mounted in partitions.
- D. Secure operator components to adjacent construction with suitable fastenings.
- E. Conceal conduits, piping, and electric equipment, in finish work.
- F. Install power units in locations shown.
1. Where units are mounted on walls, provide metal supports or shelves for units.
  2. Ensure equipment, including time delay switches, are accessible for maintenance and adjustment.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

- G. Ensure operators are adjusted and function properly for type of expected traffic.
- H. Synchronize each leaf of pair doors to open and close simultaneously.
- H. Install controls at positions shown and ensuring convenience for expected traffic.
- I. Push Plate Wall Switches Mounting Height: 1000 mm (40 inches) maximum, unless otherwise approved by Contracting Officer's Representative.

### **3.3 DEMONSTRATION AND TRAINING**

- A. Instruct VA personnel in proper automatic door operator operation and maintenance.
  - 1. Trainer: Manufacturer approved instructor.
  - 2. Training Time: 2 hours minimum.
- B. Coordinate instruction to VA personnel with VA Contracting Officer's Representative.

- - E N D - -



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2017  
Issued for Construction

**SECTION 08 80 00**  
**GLAZING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

A. This section specifies the following:

1. Glass.
5. Glazing materials and accessories for both factory and field glazed assemblies.

**1.3 LABELS:**

A. Temporary labels:

1. Provide temporary label on each light of glass identifying manufacturer or brand and glass type, quality and nominal thickness.
2. Label in accordance with NFRC label requirements.
3. Temporary labels are to remain intact until glass is approved by Contracting Officer Representative (COR).

B. Permanent labels:

1. Locate in corner for each pane.
4. Fire rated glazing assemblies: Mark in accordance with IBC.

**1.4 PERFORMANCE REQUIREMENTS:**

A. General: Design glazing system consistent with guidance and practices presented in the GANA Glazing Manual, GANA Laminated Glazing Manual, and GANA Sealant Manual, as applicable to project. Installed glazing is to withstand applied loads, thermal stresses, thermal movements, building movements, permitted tolerances, and combinations of these conditions without failure, including loss or glass breakage attributable to defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; unsafe engagement of the framing system; deflections beyond specified limits; or other defects in construction.

4.

**1.5 SUBMITTALS:**

A. In accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2017  
Issued for Construction

C. Manufacturer's Certificates:

1. Certificate stating that fire-protection and fire-resistive glazing units meet code requirements for fire-resistance-rated assembly and applicable safety glazing requirements.

D. Manufacturer Warranty.

E. Manufacturer's Literature and Data:

1. Glass, each kind required.

**1.6 DELIVERY, STORAGE AND HANDLING:**

- A. Delivery: Schedule delivery to coincide with glazing schedules so minimum handling of crates is required. Do not open crates except as required for inspection for shipping damage.
- B. Storage: Store cases according to printed instructions on case, in areas least subject to traffic or falling objects. Keep storage area clean and dry.
- C. Handling: Unpack cases following printed instructions on case. Stack individual windows on edge leaned slightly against upright supports with separators between each.

**1.8 WARRANTY:**

- A. Construction Warranty: Comply with the FAR clause 52.246-21 "Warranty of Construction".
- B. Manufacturer Warranty: Manufacturer shall warranty their glazing from the date of installation and final acceptance by the Government as follows. Submit manufacturer warranty.

**1.9 APPLICABLE PUBLICATIONS:**

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.
- B. American Architectural Manufacturers Association (AAMA):  
800.....Test Methods for Sealants  
810.1-77.....Expanded Cellular Glazing Tape
- C. American National Standards Institute (ANSI):  
Z97.1-14.....Safety Glazing Material Used in  
Building - Safety Performance Specifications  
and Methods of Test
- D. American Society of Civil Engineers (ASCE):

7-10.....Wind Load Provisions

E. ASTM International (ASTM):

C542-05(R2011).....Lock-Strip Gaskets

C716-06.....Installing Lock-Strip Gaskets and Infill  
Glazing Materials

C794-10.....Adhesion-in-Peel of Elastomeric Joint Sealants

C864-05(R2011).....Dense Elastomeric Compression Seal Gaskets,  
Setting Blocks, and Spacers

C920-14a.....Elastomeric Joint Sealants

C964-07(R2012).....Standard Guide for Lock-Strip Gasket Glazing

C1036-11(R2012).....Flat Glass

C1048-12.....Heat-Treated Flat Glass-Kind HS, Kind FT Coated  
and Uncoated Glass.

C1172-14.....Laminated Architectural Flat Glass

C1349-10.....Standard Specification for Architectural Flat  
Glass Clad Polycarbonate

C1376-10.....Pyrolytic and Vacuum Deposition Coatings on  
Flat Glass

D635-10.....Rate of Burning and/or Extent and Time of  
Burning of Self-Supporting Plastic in a  
Horizontal Position

D4802-10.....Poly (Methyl Methacrylate) Acrylic Plastic  
Sheet

E84-14.....Surface Burning Characteristics of Building  
Materials

E119-14.....Standard Test Methods for Fire Test of Building  
Construction and Material

E1300-12a.....Load Resistance of Glass in Buildings

E1886-13a.....Standard Test Method for Performance of  
Exterior Windows, Curtain Walls, Doors, and  
Impact Protective Systems Impacted by  
Missile(s) and Exposed to Cyclic Pressure  
Differentials

E1996-14a.....Standard Specification for Performance of  
Exterior Windows, Curtain Walls, Doors, and  
Impact Protective Systems Impacted by Windborne  
Debris in Hurricanes

- E2141-12.....Test Methods for Assessing the Durability of  
Absorptive Electrochromic Coatings on Sealed  
Insulating Glass Units
- E2190-10.....Insulating Glass Unit
- E2240-06.....Test Method for Assessing the Current-Voltage  
Cycling Stability at 90 Degree C (194 Degree F)  
of Absorptive Electrochromic Coatings on Sealed  
Insulating Glass Units
- E2241-06.....Test Method for Assessing the Current-Voltage  
Cycling Stability at Room Temperature of  
Absorptive Electrochromic Coatings on Sealed  
Insulating Glass Units
- E2354-10.....Assessing the Durability of Absorptive  
Electrochromic Coatings within Sealed  
Insulating Glass Units
- E2355-10.....Test Method for Measuring the Visible Light  
Transmission Uniformity of an Absorptive  
Electrochromic Coating on a Glazing Surface
- F1233-08.....Standard Test Method for Security Glazing  
Materials and Systems
- F1642-12.....Test Method for Glazing and Glazing Systems  
Subject to Airblast Loadings
- E. Code of Federal Regulations (CFR):
- 16 CFR 1201-10.....Safety Standard for Architectural Glazing  
Materials
- F. Glass Association of North America (GANA):
- 2010 Edition.....GANA Glazing Manual
- 2008 Edition.....GANA Sealant Manual
- 2009 Edition.....GANA Laminated Glazing Reference Manual
- 2010 Edition.....GANA Protective Glazing Reference Manual
- G. International Code Council (ICC):
- IBC.....International Building Code
- H. Insulating Glass Certification Council (IGCC)
- I. Insulating Glass Manufacturer Alliance (IGMA):
- TB-3001-13.....Guidelines for Sloped Glazing

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2017  
Issued for Construction

TM-3000.....North American Glazing Guidelines for Sealed  
Insulating Glass Units for Commercial and  
Residential Use

J. Intertek Testing Services - Warnock Hersey (ITS-WHI)

K. National Fire Protection Association (NFPA):

80-16.....Fire Doors and Windows

252-12.....Fire Tests of Door Assemblies

257-12.....Standard on Fire Test for Window and Glass  
Block Assemblies

L. National Fenestration Rating Council (NFRC)

M. Safety Glazing Certification Council (SGCC) 2012:  
Certified Products Directory (Issued Semi-Annually).

N. Underwriters Laboratories, Inc. (UL):

9-08(R2009).....Fire Tests of Window Assemblies

263-14.....Fire Tests of Building Construction and  
Materials

752-11.....Bullet-Resisting Equipment.

O. Unified Facilities Criteria (UFC):

4-010-01-03(R2007).....DOD Minimum Antiterrorism Standards for  
Buildings

P. U.S. Veterans Administration:

Physical Security Design Manual for VA Facilities (VAPSDG); Life Safety  
Protected

Physical Security Design Manual for VA Facilities (VAPSDG); Mission  
Critical Facilities

Architectural Design Manual for VA Facilities (VASDM)

Q. Environmental Protection Agency (EPA):

40 CFR 59(2014).....National Volatile Organic Compound Emission  
Standards for Consumer and Commercial Products

## PART 2 - PRODUCT

### SPEC WRITER NOTES:

1. Refer to glass manufacturers' literature for structural properties.
2. Specify glass by thickness and ASTM designations and supplement standard for additional properties. Refer to information following end of section for guides to ASTM C1036 and ASTM C1048 designations.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2017  
Issued for Construction

3. Establish and coordinate glass types to identify glass or glazing assemblies on drawings, preferably on exterior elevations for exterior windows.
4. Coordinate to retain glass types required with glazing assemblies.

## **2.1 GLASS:**

- A. Provide minimum thickness stated and as additionally required to meet performance requirements.
  1. Provide minimum 6 mm (1/4 inch) thick glass units unless otherwise indicated.
- B. Obtain glass units from single source from single manufacturer for each glass type.

## **SPEC WRITER NOTES:**

## **2.9 FIRE PROTECTION AND FIRE RESISTANCE GLAZING:**

- A. Fire-Protection-Rated Glazing: Glazing units tested for use in fire door assemblies or fire windows, UL, ITS-WHI or equivalent listed and labeled by testing agency in accordance with IBC, for fire-protection ratings as indicated on construction documents, based upon positive-pressure testing per NFPA 257 or UL 9, and complying with NFPA 80.
  3. Labeling: Permanently label fire-protection-rated glazing units in accordance with IBC.
- B. Fire-Resistance-Rated Glazing: Glazing units tested for use in fire wall assemblies, UL, ITS-WHI or equivalent listed and labeled by testing agency in accordance with IBC for fire-resistance ratings of wall assemblies as indicated on construction documents, based upon testing according to NFPA 252 and ASTM E119 or UL 263.
  1. Labeling: Permanently label fire-resistance-rated glazing units in accordance with IBC.

## **2.12 GLAZING ACCESSORIES:**

- A. As required to supplement the accessories provided with the items to be glazed and to provide a complete installation. Ferrous metal accessories exposed in the finished work are to have a finish that will not corrode or stain while in service. Fire rated glazing to be

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2017  
Issued for Construction

installed with glazing accessories in accordance with the manufacturer's installation instructions.

B. Setting Blocks: ASTM C864:

1. Silicone type.
2. Channel shape; having 6 mm (1/4 inch) internal depth.
3. Shore A hardness of 80 to 90 Durometer.
4. Block lengths: 50 mm (2 inches) except 100 to 150 mm (4 to 6 inches) for insulating glass.
5. Block width: Approximately 1.6 mm (1/16 inch) less than the full width of the rabbet.
6. Block thickness: Minimum 4.8 mm (3/16 inch). Thickness sized for rabbet depth as required.

C. Spacers: ASTM C864:

1. Channel shape having a 6 mm (1/4 inch) internal depth.
2. Flanges not less 2.4 mm (3/32 inch) thick and web 3 mm (1/8 inch) thick.
3. Lengths: 25 to 76 mm (1 to 3 inches).
4. Shore A hardness of 40 to 50 Durometer.

D. Glazing Tapes:

1. Semi-solid polymeric based closed cell material exhibiting pressure-sensitive adhesion and withstanding exposure to sunlight, moisture, heat, cold, and aging.
2. Shape, size and degree of softness and strength suitable for use in glazing application to prevent water infiltration.
3. Complying with AAMA 800 for the following types:
  - a. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
  - b. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

H. Glazing Gaskets: ASTM C864:

1. Firm dense wedge shape for locking in sash.
2. Soft, closed cell with locking key for sash key.
3. Flanges may terminate above the glazing-beads or terminate flush with top of beads.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2017  
Issued for Construction

- I. Lock-Strip Glazing Gaskets: ASTM C542, shape, size, and mounting as indicated.
- J. Glazing Sealants: ASTM C920, silicone neutral cure:
  - 1. Type S.
  - 2. Class 25 or 50 as recommended by manufacturer for application.
  - 3. Grade NS.
  - 4. Shore A hardness of 25 to 30 Durometer.
  - 5. VOC Content: For sealants used inside the weatherproofing system, not more than 250 g/L or less when calculating according to 40 CFR 59, (EPA Method 24).

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION:**

- A. Verification of Conditions:
  - 1. Examine openings for glass and glazing units; determine they are proper size; plumb; square; and level before installation is started.
  - 2. Verify that glazing openings conform with details, dimensions and tolerances indicated on manufacturer is approved shop drawings.
- B. Review for conditions which may adversely affect glass and glazing unit installation, prior to commencement of installation. Do not proceed with installation until unsatisfactory conditions have been corrected.

#### **3.2 PREPARATION:**

- A. For sealant glazing, prepare glazing surfaces in accordance with GANA Sealant Manual.
- B. Determine glazing unit size and edge clearances by measuring the actual unit to receive the glazing.
- C. Shop fabricate and cut glass with smooth, straight edges of full size required by openings to provide GANA recommended edge clearances.
- D. Verify that components used are compatible.
- E. Clean and dry glazing surfaces.
- F. Prime surfaces scheduled to receive sealants, as determined by preconstruction sealant-substrate testing.

#### **3.3 INSTALLATION - GENERAL:**

- A. Install in accordance with GANA Glazing Manual, GANA Sealant Manual, IGMA TB-3001, and IGMA TM-3000 unless specified otherwise.



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2017  
Issued for Construction

- B. Glaze in accordance with recommendations of glazing and framing manufacturers, and as required to meet the Performance Test Requirements specified in other applicable sections of specifications.
- C. Set glazing without bending, twisting, or forcing of units.
- D. Do not allow glass to rest on or contact any framing member.
- E. Glaze doors and operable sash, in a securely fixed or closed and locked position, until sealant, glazing compound, or putty has thoroughly set.
- L. Fire Protective and Fire Resistance Glass:
  - 2. Other fire protective and fire resistant glass: Glaze in accordance with manufacturer's installation instructions and NFPA 80.

### **3.9 INSTALLATION - INTERIOR WET/DRY METHOD (TAPE AND SEALANT) :**

- A. Cut glazing tape to length and install against permanent stops, projecting 1.6 mm (1/16 inch) above sight line.
- B. Place setting blocks at 1/4 points with edge block no more than 150 mm (6 inches) from corners.
- C. Rest glazing on setting blocks and push against tape to ensure full contact at perimeter of pane or unit.
- D. Install removable stops, spacer shims inserted between glazing and applied stops at 600 mm (24 inch) intervals, 6 mm (1/4 inch) below sight line.
- E. Fill gaps between pane and applied stop with sealant to depth equal to bite on glazing, to uniform and level line. Sealant type is to be compatible with glazing tape.
- F. Trim protruding tape edge.

### **3.13 REPLACEMENT AND CLEANING:**

- A. Clean new glass surfaces removing temporary labels, paint spots, and defacement after approval by COR.
- B. Replace cracked, broken, and imperfect glass, or glass which has been installed improperly.
- C. Leave glass, putty, and other setting material in clean, whole, and acceptable condition.

### **3.14 PROTECTION:**

- A. Protect finished surfaces from damage during erection, and after completion of work.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

10-01-15  
January 13, 2017  
Issued for Construction

**3.15 MONOLITHIC GLASS SCHEDULE:**

**3.20 FIRE-PROTECTIVE AND FIRE-RESISTANCE GLAZING SCHEDULE:**

C. Glass Type: Fire-resistance-rated laminated glass with intumescent interlayers.

1. Thickness: 5/16 inch, 8 mm.

2. Rating: 90- minute.

3. Application: Fire-protection-rated door and window assemblies.

- - - E N D - - -

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project No. 650-16-011

02-01-15  
 January 13, 2017  
 Issued for Construction

**SECTION 09 05 16**  
**SUBSURFACE PREPARATION FOR FLOOR FINISHES**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

This section specifies subsurface preparation requirements for areas to receive the installation of applied flooring. This section includes removal of existing floor coverings and floor leveling and repair as required to allow doors to swing clear and comply with NFPA fire door installation requirements.

**1.2 RELATED WORK**

B. Section 09 65 19, RESILIENT TILE FLOORING.

**1.3 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA and TEST DATA.
- B. Written approval confirming product compatibility with subfloor material manufacturer and the flooring manufacturer
- C. Product Data:
  - 4. Cementitious Trowel-Applied Underlayment (Not suitable for resinous floor finishes)

**1.4 DELIVERY AND STORAGE**

- A. Deliver materials in containers with labels legible and intact and grade-seals unbroken.
- B. Store material to prevent damage or contamination.

**1.5 APPLICABLE PUBLICATIONS**

- A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in text by basic designation only.
- B. American Society for Testing and Materials (ASTM):

<b>D638-10</b> (2010)	Test Method for Tensile Properties of Plastics
<b>D4259-88</b> (2012)	Standard Practice for Abrading Concrete to alter the surface profile of the concrete and to remove foreign materials and weak surface laitance.
<b>C109/C109M-12</b> (2012)	Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens) Modified Air Cure Only
<b>D7234-12</b> (2012)	Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers.

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project No. 650-16-011

02-01-15  
 January 13, 2017  
 Issued for Construction

<b>E96/E96M - 12</b> (2012)	Standard Test Methods for Water Vapor Transmission of Materials
<b>F710-11</b> (2011)	Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
<b>F1869-11</b> (2011)	Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride
<b>F2170-11</b> (2011)	Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes
<b>C348-08</b> (2008)	Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars
<b>C191-13</b> (2013)	Standard Test Method for Time of Setting of Hydraulic Cement by Vicat Needle

## PART 2 - PRODUCTS

### 2.3 CEMENTITIOUS TROWEL-APPLIED UNDERLAYMENT (NOT SUITABLE FOR RESINOUS FLOOR FINISHES)

- A. Underlayment shall be calcium aluminate cement-based, containing Portland cement. Gypsum-based products are unacceptable.
- B. Compressive Strength: Minimum 4000 psi in 28 days
- C. Trowel-applied underlayment shall not contain silica quartz (sand).
- D. Dry Time: Underlayment shall receive the application of floor covering in 15-20 minutes.

## PART 3 - EXECUTION

### 3.1 ENVIRONMENTAL REQUIREMENTS

- A. Maintain ambient temperature of work areas at not less than 16 degree C (60 degrees F), without interruption, for not less than 24 hours before testing and not less than three days after testing.
- B. Maintain higher temperatures for a longer period of time where required by manufacturer's recommendation.
- C. Do not install materials when the temperatures of the substrate or materials are not within 60-85 degrees F/ 16-30 degrees C.

### 3.2 SURFACE PREPARATION

- A. Existing concrete slabs with existing floor coverings:

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-15  
January 13, 2017  
Issued for Construction

1. Conduct visual observation of existing floor covering for adhesion, water damage, alkaline deposits, and other defects.
2. Remove existing floor covering and adhesives. Comply with local, state and federal regulations and the RFCI Recommended Work Practices for Removal of Resilient Floor Coverings, as applicable to the floor covering being removed.
- B. Concrete shall meet the requirements of ASTM F710 and be sound, solid, clean, and free of all oil, grease, dirt, curing compounds, and any substance that might act as a bond-breaker before application. As required prepare slab by mechanical methods. No chemicals or solvents shall be used.
- C. General: Prepare and clean substrates according to flooring manufacturer's written instructions for substrate indicated.
- D. Prepare concrete substrates per ASTM D4259 as follows:
  3. Vacuum-assisted abrasive blasting to grind down high spots in existing concrete slab to permit adjacent fire doors to swing clear but maintain no more than the maximum clearance required at the sill of the fire doors
- E. Repair damaged and deteriorated concrete according to flooring manufacturer's written recommendations.
- F. Tolerances: Subsurface shall meet the flatness and levelness tolerance specified on drawings or recommended by the floor finish manufacturer. Tolerance shall also not to exceed 1/4" deviation in 10'. As required, install underlayment to achieve required tolerance.
- B.

#### **3.4 CEMENTITIOUS UNDERLAYMENT:**

- A. Install cementitious self-leveling underlayment as required to correct surface defects, floor flatness or levelness corrections to meet the tolerance requirements as or detailed on drawings, address non-moving cracks or joints, provide a smooth surface for the installation of floor covering.
- B. Mix and apply in accordance with manufacturer's instructions.

#### **3.5 PROTECTION**

- A. Prior to the installation of the finish flooring, the surface of the underlayment should be protected from abuse by other trades by the use of plywood, tempered hardwood, or other suitable protection course

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-15  
January 13, 2017  
Issued for Construction

- - - E N D - - -

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

05-01-16  
January 13, 2017  
Issued for Construction

**SECTION 09 22 16**  
**NON-STRUCTURAL METAL FRAMING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

This section specifies steel studs wall systems, shaft wall systems, ceiling or soffit suspended or furred framing, wall furring, fasteners, and accessories for the screw attachment of gypsum board, plaster bases or other building boards.

**1.2 RELATED WORK**

**1.3 TERMINOLOGY**

- A. Description of terms shall be in accordance with ASTM C754, ASTM C11, ASTM C841 and as specified.
- B. Underside of Structure Overhead: In spaces where steel trusses or bar joists are shown, the underside of structure overhead shall be the underside of the floor or roof construction supported by beams, trusses, or bar joists. In interstitial spaces with walk-on floors the underside of the walk-on floor is the underside of structure overhead.
- C. Thickness of steel specified is the minimum bare (uncoated) steel thickness.

**1.4 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
  - 1. Studs, runners and accessories.
  - 5. Screws, clips and other fasteners.

**1.5 DELIVERY, IDENTIFICATION, HANDLING AND STORAGE**

In accordance with the requirements of ASTM C754.

**1.6 APPLICABLE PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. American Society For Testing And Materials (ASTM)
  - A641-09.....Zinc-Coated (Galvanized) Carbon Steel Wire
  - A653/653M-11.....Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by Hot-Dip Process.

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project No. 650-16-011

05-01-16  
 January 13, 2017  
 Issued for Construction

C11-10.....Terminology Relating to Gypsum and Related  
 Building Materials and Systems  
 C635-07.....Manufacture, Performance, and Testing of Metal  
 Suspension System for Acoustical Tile and  
 Lay-in Panel Ceilings  
 C636-08.....Installation of Metal Ceiling Suspension  
 Systems for Acoustical Tile and Lay-in Panels  
 C645-09.....Non-Structural Steel Framing Members  
 C754-11.....Installation of Steel Framing Members to  
 Receive Screw-Attached Gypsum Panel Products  
 C841-03 (R2008).....Installation of Interior Lathing and Furring  
 C954-10.....Steel Drill Screws for the Application of  
 Gypsum Panel Products or Metal Plaster Bases to  
 Steel Studs from 0.033 in. (0.84 mm) to 0.112  
 in. (2.84 mm) in Thickness  
 E580-11.....Application of Ceiling Suspension Systems for  
 Acoustical Tile and Lay-in Panels in Areas  
 Requiring Moderate Seismic Restraint.

## **PART 2 - PRODUCTS**

### **2.1 PROTECTIVE COATING**

Galvanize steel studs, runners (track), rigid (hat section) furring channels, "Z" shaped furring channels, and resilient furring channels, with coating designation of G40 or equivalent.

### **2.2 STEEL STUDS AND RUNNERS (TRACK)**

- A. ASTM C645, modified for thickness specified and sizes as shown.
  1. Use C 645 steel, 0.75 mm (0.0296-inch) minimum base-metal (30 mil).
  2. Runners same thickness as studs.
  3. Exception: Members that can show certified third party testing with gypsum board in accordance with ICC ES AC86 (Approved May 2012) need not meet the minimum thickness limitation or minimum section properties set forth in ASTM C 645. The submission of an evaluation report is acceptable to show conformance to this requirement. Use C 645 steel, 0.48mm (0.019 inch) minimum base-metal (19 mil).
- B. Provide not less than two cutouts in web of each stud, approximately 300 mm (12 inches) from each end, and intermediate cutouts on approximately 600 mm (24-inch) centers.



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

05-01-16  
January 13, 2017  
Issued for Construction

- C. Doubled studs for openings and studs for supporting concrete backer-board.
- D. Studs 3600 mm (12 feet) or less in length shall be in one piece.

#### **2.4 FASTENERS, CLIPS, AND OTHER METAL ACCESSORIES**

- A. ASTM C754, except as otherwise specified.
- B. For fire rated construction: Type and size same as used in fire rating test.
- C. Fasteners for steel studs thicker than 0.84 mm (0.033-inch) thick. Use ASTM C954 steel drill screws of size and type recommended by the manufacturer of the material being fastened.
- D. Clips: ASTM C841 (paragraph 6.11), manufacturer's standard items.  
Clips used in lieu of tie wire shall have holding power equivalent to that provided by the tie wire for the specific application.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION CRITERIA**

- A. Where fire rated construction is required for walls, partitions, columns, beams and floor-ceiling assemblies, the construction shall be same as that used in fire rating test.
- B. Construction requirements for fire rated assemblies and materials shall be as shown and specified, the provisions of the Scope paragraph (1.2) of ASTM C754 and ASTM C841 regarding details of construction shall not apply.

#### **3.2 INSTALLING STUDS**

- A. Install studs in accordance with ASTM C754, except as otherwise shown or specified.
- B. Space studs not more than 610 mm (24 inches) on center.
- C. Cut studs 6 mm to 9 mm (1/4 to 3/8-inch) less than floor to underside of structure overhead when extended to underside of structure overhead.
- E. Extend studs to underside of structure overhead for fire, rated partitions.
- G. Openings:
  - 1. Frame jambs of openings in stud partitions and furring with two studs placed back to back or as shown.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

05-01-16  
January 13, 2017  
Issued for Construction

2. Fasten back to back studs together with 9 mm (3/8-inch) long Type S pan head screws at not less than 600 mm (two feet) on center, staggered along webs.

3. Studs fastened flange to flange shall have splice plates on both sides approximately 50 X 75 mm (2 by 3 inches) screwed to each stud with two screws in each stud. Locate splice plates at 600 mm (24 inches) on center between runner tracks.

H. Fastening Studs:

1. Fasten studs located adjacent to partition intersections, corners and studs at jambs of openings to flange of runner tracks with two screws through each end of each stud and flange of runner.

2. Do not fasten studs to top runner track when studs extend to underside of structure overhead.

I.

than 400 mm (16 inches) on center.

**3.4 INSTALLING SUPPORTS REQUIRED BY OTHER TRADES**

A. Provide for attachment and support of electrical outlets, plumbing, laboratory or heating fixtures, recessed type plumbing fixture accessories, access panel frames, wall bumpers, wood seats, toilet stall partitions, dressing booth partitions, urinal screens, chalkboards, tackboards, wall-hung casework, handrail brackets, recessed fire extinguisher cabinets and other items like auto door buttons and auto door operators supported by stud construction.

**3.7 TOLERANCES**

A. Fastening surface for application of subsequent materials shall not vary more than 3 mm (1/8-inch) from the layout line.

B. Plumb and align vertical members within 3 mm (1/8-inch.)

C. Level or align ceilings within 3 mm (1/8-inch.)

- - - E N D - - -

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

11-01-14  
January 13, 2017  
Issued for Construction

**SECTION 09 29 00**  
**GYPSUM BOARD**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

This section specifies installation and finishing of gypsum board.

**1.2 RELATED WORK**

- A. Installation of steel framing members for walls, partitions, furring, soffits, and ceilings: Section 09 22 16, NON-STRUCTURAL METAL FRAMING.

**1.3 TERMINOLOGY**

- A. Definitions and description of terms shall be in accordance with ASTM C11, C840, and as specified.
- B. Underside of Structure Overhead: In spaces where steel trusses or bar joists are shown, the underside of structure overhead shall be the underside of the floor or roof construction supported by the trusses or bar joists.
- C. "Yoked": Gypsum board cut out for opening with no joint at the opening (along door jamb or above the door).

**1.4 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
1. Cornerbead and edge trim.
  2. Finishing materials.
  4. Gypsum board, each type.

**1.5 DELIVERY, IDENTIFICATION, HANDLING AND STORAGE**

In accordance with the requirements of ASTM C840.

**1.6 ENVIRONMENTAL CONDITIONS**

In accordance with the requirements of ASTM C840.

**1.7 APPLICABLE PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. American Society for Testing And Materials (ASTM):
- C11-08.....Terminology Relating to Gypsum and Related  
Building Materials and Systems
- C475-02.....Joint Compound and Joint Tape for Finishing  
Gypsum Board

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

11-01-14  
January 13, 2017  
Issued for Construction

- C840-08.....Application and Finishing of Gypsum Board
- C919-08.....Sealants in Acoustical Applications
- C954-07.....Steel Drill Screws for the Application of  
Gypsum Board or Metal Plaster Bases to Steel  
Stud from 0.033 in. (0.84mm) to 0.112 in.  
(2.84mm) in thickness
- C1002-07.....Steel Self-Piercing Tapping Screws for the  
Application of Gypsum Panel Products or Metal  
Plaster Bases to Wood Studs or Steel Studs
- C1047-05.....Accessories for Gypsum Wallboard and Gypsum  
Veneer Base
- C1177-06.....Glass Mat Gypsum Substrate for Use as Sheathing
- C1658-06.....Glass Mat Gypsum Panels
- C1396-06.....Gypsum Board
- E84-08.....Surface Burning Characteristics of Building  
Materials
- C. Underwriters Laboratories Inc. (UL):  
Latest Edition.....Fire Resistance Directory
- D. Inchcape Testing Services (ITS):  
Latest Editions.....Certification Listings

## **PART 2 - PRODUCTS**

### **2.1 GYPSUM BOARD**

- A. Gypsum Board: ASTM C1396, Type X, 16 mm (5/8 inch) thick unless shown otherwise. Shall contain a minimum of 20 percent recycled gypsum.

### **2.3 ACCESSORIES**

- A. ASTM C1047, except form of 0.39 mm (0.015 inch) thick zinc coated steel sheet or rigid PVC plastic.
- B. Flanges not less than 22 mm (7/8 inch) wide with punchouts or deformations as required to provide compound bond.

### **2.4 FASTENERS**

- A. ASTM C1002 and ASTM C840, except as otherwise specified.
- B. ASTM C954, for steel studs thicker than 0.04 mm (0.33 inch).
- C. Select screws of size and type recommended by the manufacturer of the material being fastened.
- D. For fire rated construction, type and size same as used in fire rating test.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

11-01-14  
January 13, 2017  
Issued for Construction

- E. Clips: Zinc-coated (galvanized) steel; gypsum board manufacturer's standard items.

## **2.5 FINISHING MATERIALS AND LAMINATING ADHESIVE**

ASTM C475 and ASTM C840. Free of antifreeze, vinyl adhesives, preservatives, biocides and other VOC. Adhesive shall contain a maximum VOC content of 50 g/l.

## **PART 3 - EXECUTION**

### **3.1 GYPSUM BOARD HEIGHTS**

- A. Extend all layers of gypsum board from floor to underside of structure overhead on following partitions and furring:
  - 1. Two sides of partitions:
    - a. Fire rated partitions.

### **3.2 INSTALLING GYPSUM BOARD**

- A. Coordinate installation of gypsum board with other trades and related work.
- B. Install gypsum board in accordance with ASTM C840, except as otherwise specified.
- C. D. Use gypsum boards in maximum practical lengths to minimize number of end joints.
- E. Bring gypsum board into contact, but do not force into place.
- G. Walls (Except Shaft Walls):
  - 1. When gypsum board is installed parallel to framing members, space fasteners 300 mm (12 inches) on center in field of the board, and 200 mm (8 inches) on center along edges.
  - 2. When gypsum board is installed perpendicular to framing members, space fasteners 300 mm (12 inches) on center in field and along edges.
  - 3. Stagger screws on abutting edges or ends.
  - 5. For two-ply gypsum board assemblies, apply base ply of gypsum board to assure minimum number of joints in face layer. Apply face ply of wallboard to base ply so that joints of face ply do not occur at joints of base ply with joints over framing members.
  - 7. No offset in exposed face of walls and partitions will be permitted because of single-ply and two-ply or three-ply application requirements.
  - 9. Control Joints ASTM C840 and as follows:

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

11-01-14  
January 13, 2017  
Issued for Construction

- a. Locate at both side jambs of openings if gypsum board is not "yoked". Use one system throughout.
  - b. Not required for wall lengths less than 9000 mm (30 feet).
  - c. Extend control joints the full height of the wall or length of soffit/ceiling membrane.
- I. Electrical and Telecommunications Boxes:
1. Seal annular spaces between electrical and telecommunications receptacle boxes and gypsum board partitions.
- J. Accessories:
1. Set accessories plumb, level and true to line, neatly mitered at corners and intersections, and securely attach to supporting surfaces as specified.
  2. Install in one piece, without the limits of the longest commercially available lengths.
  3. Corner Beads:
    - a. Install at all vertical and horizontal external corners and where shown.
    - b. Use screws only. Do not use crimping tool.
  4. Edge Trim (casings Beads):
    - a. At both sides of expansion and control joints unless shown otherwise.
    - b. Where gypsum board terminates against dissimilar materials and at perimeter of openings, except where covered by flanges, casings or permanently built-in equipment.
    - c. Where gypsum board surfaces of non-load bearing assemblies abut load bearing members.
    - d. Where shown.

### 3.5 FINISHING OF GYPSUM BOARD

- A. Finish joints, edges, corners, and fastener heads in accordance with ASTM C840. Use Level 4 finish for all finished areas open to public view.
- B. Before proceeding with installation of finishing materials, assure the following:
  1. Gypsum board is fastened and held close to framing or furring.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

11-01-14  
January 13, 2017  
Issued for Construction

2. Fastening heads in gypsum board are slightly below surface in dimple formed by driving tool.

C. Finish joints, fasteners, and all openings, including openings around penetrations, on that part of the gypsum board extending above suspended ceilings to seal surface of non decorated , fire rated gypsum board construction. After the installation of hanger rods, hanger wires, supports, equipment, conduits, piping and similar work, seal remaining openings and maintain the integrity of the fire rated construction. Sanding is not required of non decorated surfaces.

### 3.6 REPAIRS

- A. After taping and finishing has been completed, and before decoration, repair all damaged and defective work, including nondecorated surfaces.
- B. Patch holes or openings 13 mm (1/2 inch) or less in diameter, or equivalent size, with a setting type finishing compound or patching plaster.
- C. Repair holes or openings over 13 mm (1/2 inch) diameter, or equivalent size, with 16 mm (5/8 inch) thick gypsum board secured in such a manner as to provide solid substrate equivalent to undamaged surface.
- D. Tape and refinish scratched, abraded or damaged finish surfaces including cracks and joints in non decorated surface to provide fire protection equivalent to the fire rated construction.

- - - E N D - - -

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

11-01-14  
January 13, 2017  
Issued for Construction



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

**SECTION 09 65 13**  
**RESILIENT BASE AND ACCESSORIES**

**PART 1 - GENERAL**

**1.1 SUMMARY**

A. Section Includes:

1. Resilient base (RB) adhered to interior walls and partitions.

**1.2 APPLICABLE PUBLICATIONS**

A. Comply with references to extent specified in this section.

B. ASTM International (ASTM):

1. F1344-15 - Rubber Floor Tile.
2. F1859-14 - Rubber Sheet Floor Covering without Backing.
3. F1860-14 - Rubber Sheet Floor Covering with Backing.
4. F1861-08(2012)e1 - Resilient Wall Base.
5. D4259-88(2012) - Abrading Concrete.

C. Federal Specifications (Fed. Spec.):

1. RR-T-650E - Treads, Metallic and Non-Metallic, Skid-Resistant.

D. International Concrete Repair Institute (ICRI):

1. 310.2R-13 - Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays.

**1.3 SUBMITTALS**

A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

B. Manufacturer's Literature and Data:

1. Description of each product.
2. Adhesives and primers indicating manufacturer's recommendation for each application.
3. Installation instructions.

C. Samples:

1. Resilient Base: 150 mm (6 inches) long, each type and color.

D. Operation and Maintenance Data:

1. Care instructions for each exposed finish product.

**1.4 DELIVERY**

A. Deliver products in manufacturer's original sealed packaging.

B. Mark packaging, legibly. Indicate manufacturer's name or brand, type, color, production run number, and manufacture date.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

- C. Before installation, return or dispose of products within distorted, damaged, or opened packaging.

#### **1.5 STORAGE AND HANDLING**

- A. Store products indoors in dry, weathertight facility.
- B. Protect products from damage when handling and during construction operations.

#### **1.6 FIELD CONDITIONS**

- A. Environment:
  - 1. Product Temperature: Minimum 21 degrees C (70 degrees F) for minimum 48 hours before installation.
  - 2. Work Area Ambient Temperature Range: 21 to 27 degrees C (70 to 80 degrees F) continuously, beginning 48 hours before installation.
  - 3. Install products when building is permanently enclosed and when wet construction is completed, dried, and cured.

#### **1.7 WARRANTY**

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction."

### **PART 2 - PRODUCTS**

#### **2.1 PRODUCTS**

- A. Basis of Design: Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Provide each product from one manufacturer and from one production run.
  - 1. Low Pollutant-Emitting Materials: Comply with VOC limits specified in Section 01 81 13, SUSTAINABLE CONSTRUCTION REQUIREMENTS for the following products:
    - a. Flooring Adhesives and Sealants.

#### **2.2 RESILIENT BASE**

- A. Resilient Base: 3 mm (1/8 inch) thick, 100 mm (4 inches) high.
  - 1. Type: Rubber or vinyl; use one type throughout.
  - 2. ASTM F1861, Type TP thermoplastic rubber or Type TV thermoplastic vinyl, Group 2 - layered.
- B. Applications:
  - 1. Carpet Flooring Locations: Style A - Straight.
  - 2. Other Locations: Style B - Cove.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

### **2.3 ADHESIVES**

- A. Adhesives: Low pollutant-emitting, water based type recommended by adhered product manufacturer for each application.

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Examine and verify substrate suitability for product installation.
- B. Protect existing construction and completed work from damage.
- C. Remove existing base to permit new installation.
  - 1. Dispose of removed materials.
- D. Correct substrate deficiencies.
  - 1. Fill cracks, pits, and depressions with leveling compound.
  - 2. Remove protrusions; grind high spots.
- E. Clean substrates. Remove contaminants capable of affecting subsequently installed product's performance.

### **3.2 INSTALLATION GENERAL**

- A. Install products according to manufacturer's instructions.
  - 1. When instructions deviate from specifications, submit proposed resolution for Contracting Officer consideration.

### **3.3 RESILIENT BASE INSTALLATION**

- A. Applications:
  - 1. Install resilient base in rooms scheduled on Drawings.
- B. Lay out resilient base with minimum number of joints.
  - 1. Length: 600 mm (24 inches) minimum, each piece.
  - 2. Locate joints 150 mm (6 inches) minimum from corners and intersection of adjacent materials.
- C. Installation:
  - 1. Apply adhesive uniformly for full contact between resilient base and substrate.
  - 2. Set resilient base with hairline butted joints aligned along top edge.
- D. Field form corners and end stops.
  - 1. V-groove back of outside corner.
  - 2. V-groove face of inside corner and notch cove for miter joint.
- E. Roll resilient base ensuring complete adhesion.

### **3.4 CLEANING**

- A. Remove excess adhesive before adhesive sets.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

02-01-16  
January 13, 2017  
Issued for Construction

- B. Clean exposed resilient base surfaces. Remove contaminants and stains.
  - 1. Clean with mild detergent. Leave surfaces free of detergent residue.
- C. Polish exposed resilient base to gloss sheen.

### 3.5 PROTECTION

- A. Protect products from construction traffic and operations.
  - 1. Maintain protection until directed by Contracting Officer's Representative.
- B. Replace damaged products and re-clean.
  - 1. Damaged Products include cut, gouged, scraped, torn, and unbonded products.

- - E N D - -

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-15  
January 13, 2017  
Issued for Construction

**SECTION 09 65 19**  
**RESILIENT TILE FLOORING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

- A. This section specifies the installation of vinyl composition tile and accessories required for a complete installation.

**1.2 RELATED WORK:**

- B. Resilient Base: Section 09 65 13, RESILIENT BASE AND ACCESSORIES.
- C. Subfloor Testing and Preparation: Section 09 05 16, SUBSURFACE PREPARATION FOR FLOOR FINISHES.

**1.3 SUBMITTALS:**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
  - 1. Description of each product.
  - 2. Resilient material manufacturer's recommendations for adhesives, underlayment, primers, and polish.
  - 3. Application, installation and maintenance instructions.
- D. Samples:
  - 1. Tile: Each type, color, thickness and finish.
  - 2. Edge Strips: Each type, color, thickness and finish.

**1.4 DELIVERY:**

- A. Deliver materials to the site in original sealed packages or containers, clearly marked with the manufacturer's name or brand, type and color, production run number and date of manufacture.
- B. Materials from containers which have been distorted, damaged or opened prior to installation are not acceptable.

**1.5 STORAGE:**

- A. Store materials in a clean, dry, enclosed space off the ground, protected from harmful weather conditions and at temperature and humidity conditions recommended by the manufacturer. Protect adhesives from freezing. Store flooring, adhesives, and accessories in the spaces where they will be installed for at least 48 hours before beginning installation.

**1.6 QUALITY ASSURANCE:**

- A. Installer Qualifications: A company specializing in installation with minimum three (3) years' experience and employs experienced flooring

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project No. 650-16-011

12-01-15  
 January 13, 2017  
 Issued for Construction

installers who have retained, and currently hold, an INSTALL Certification, or a certification from a comparable certification program.

1. Installers to be certified by INSTALL or a comparable certification program with the following minimum criteria:

- a. US Department of Labor approved four (4) year apprenticeship program, 160 hours a year.
- b. Career long training.
- c. Manufacturer endorsed training.
- d. Fundamental journeyman skills certification.

C. Furnish product type materials from the same production run.

#### **1.7 WARRANTY:**

A. Construction Warranty: Comply with FAR clause 52.246-21, "Warranty of Construction".

#### **1.8 APPLICABLE PUBLICATIONS:**

A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.

B. ASTM International (ASTM):

D2047-11.....Test Method for Static Coefficient of Friction  
 of Polish-Coated Flooring Surfaces as Measured  
 by the James Machine

D2240-05 (R2010).....Test Method for Rubber Property-Durometer  
 Hardness

D4078-02 (R2008).....Water Emulsion Floor Finish

E648-14c.....Critical Radiant Flux of Floor Covering Systems  
 Using a Radiant Energy Source

E662-14.....Specific Optical Density of Smoke Generated by  
 Solid Materials

E1155/E1155M-14.....Determining Floor Flatness and Floor Levelness  
 Numbers

F510/F510M-14.....Resistance to Abrasion of Resilient Floor  
 Coverings Using an Abrader with a Grit Feed  
 Method

F710-11.....Preparing Concrete Floors to Receive Resilient  
 Flooring

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-15  
January 13, 2017  
Issued for Construction

F925-13.....Test Method for Resistance to Chemicals of  
Resilient Flooring

F1066-04 (R2014).....Vinyl Composition Floor Tile

F1344-12 (R2013).....Rubber Floor Tile

F1700-13a.....Solid Vinyl Floor Tile

F1869-11.....Test Method for Measuring Moisture Vapor  
Emission Rate of Concrete Subfloor Using  
Anhydrous Calcium Chloride

F2170-11.....Test Method for Determining Relative Humidity  
in Concrete Floor Slabs Using in Situ Probes

F2195-13.....Linoleum Floor Tile

C. Code of Federal Regulation (CFR):

40 CFR 59.....Determination of Volatile Matter Content, Water  
Content, Density Volume Solids, and Weight  
Solids of Surface Coating

D. International Standards and Training Alliance (INSTALL):

**PART 2 - PRODUCTS**

**2.1 PERFORMANCE REQUIREMENTS:**

- A. Provide adhesives, underlayment, primers, and polish recommended by resilient floor material manufacturer.
- B. Critical Radiant Flux: 0.45 watts per sq. cm or more, Class I, per ASTM E648.
- C. Smoke Density: Less than 450 per ASTM E662.
- D. Slip Resistance - Not less than 0.5 when tested with ASTM D2047.

**2.4 VINYL COMPOSITION TILE:**

- A. Tile Standard: ASTM F1066, Class 2, through-pattern tile.
- B. Wearing Surface: Smooth.
- C. Thickness: 3.2 mm (0.125 inch).
- D. Size: 305 x 305 mm (12 x 12 inches).

**2.7 ADHESIVES:**

- A. Provide water resistant type adhesive for flooring, base and accessories as recommended by the manufacturer to suit substrate conditions. VOC content to be less than the 50 grams/L when calculated according to 40 CFR 59 (EPA Method 24). Submit manufacturer's descriptive data, documentation stating physical characteristics, and mildew and germicidal characteristics.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-15  
January 13, 2017  
Issued for Construction

**2.8 PRIMER FOR CONCRETE SUBFLOORS:**

- A. Provide in accordance with Section 09 05 16, SUBSURFACE PREPARATION FOR FLOOR FINISHES.

**2.9 LEVELING COMPOUND FOR CONCRETE FLOORS:**

- A. Provide cementitious products with latex or polyvinyl acetate resins in the mix in accordance with Section 09 05 16, SUBSURFACE PREPARATION FOR FLOOR FINISHES.

**2.10 POLISH AND CLEANERS:**

- A. Cleaners: As recommended in writing by floor tile manufacturer.
- B. Polish: ASTM D4078.

**PART 3 - EXECUTION**

**3.1 ENVIRONMENTAL REQUIREMENTS:**

- A. Maintain flooring materials and areas to receive resilient flooring at a temperature above 20 degrees C (68 degrees F) for three (3) days before application, during application and two (2) days after application, unless otherwise directly by the flooring manufacturer for the flooring being installed. Maintain a minimum temperature of 13 degrees C (55 degrees F) thereafter. Provide adequate ventilation to remove moisture from area and to comply with regulations limiting concentrations of hazardous vapors.

**3.2 SUBFLOOR TESTING AND PREPARATION:**

- A. Prepare and test surfaces to receive resilient tile and adhesive as per Section 09 05 16, SUBSURFACE PREPARATION FOR FLOOR FINISHES.
  - 1. Remove existing resilient floor and existing adhesive.
- B. Prepare concrete substrates in accordance with ASTM F710.

**3.3 INSTALLATION:**

- A. Install in accordance with manufacturer's instructions for application and installation unless specified otherwise.
- B. Mix tile from at least two containers. An apparent line either of shades or pattern variance is not acceptable.
- C. Tile Layout:
  - 1. Align tile joints with existing tile to remain in corridors. .
- D. Application:
  - 1. Adhere floor tile to flooring substrates using a full spread of adhesive applied to substrate to produce a completed installation



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-15  
January 13, 2017  
Issued for Construction

without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

2. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.
3. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.
4. Roll tile floor with a minimum 45 kg (100 pound) roller.
- E. Seal joints at pipes with sealants in accordance with Section 07 92 00, JOINT SEALANTS.

### 3.4 CLEANING AND PROTECTION:

- A. Clean adhesive marks on exposed surfaces during the application of resilient materials before the adhesive sets. Exposed adhesive is not acceptable.
- B. Keep traffic off resilient material for a minimum 72 hours after installation.
- C. Clean flooring as recommended in accordance with manufacturer's printed maintenance instructions and within the recommended time frame. As required by the manufacturer, apply the recommended number of coats and type of polish and/or finish in accordance with manufacturer's written instructions.
- D. When construction traffic occurs over tile, cover resilient materials with reinforced kraft paper properly secured and maintained until removal is directed by COR. At entrances and where wheeled vehicles or carts are used, cover tile with plywood, hardboard, or particle board over paper, secured and maintained until removal is directed by COR.
- E. When protective materials are removed and immediately prior to acceptance, replace damaged tile and mouldings, re-clean resilient materials.

### 3.5 LOCATION:

- A. Unless otherwise indicated in construction documents, install tile flooring, under areas where casework, laboratory and pharmacy furniture and other equipment occur.
- B. Extend tile flooring for room into adjacent closets and alcoves.

- - - E N D - - -

**650-16-011 Prov Fire Door Seed Project**

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

12-01-15  
January 13, 2017  
Issued for Construction

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

**SECTION 09 91 00**  
**PAINTING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

- A. Work of this Section includes all labor, materials, equipment, and services necessary to complete the painting and finishing as shown on the construction documents and/or specified herein, including, but not limited to, the following:
1. Prime coats which may be applied in shop under other sections.
  2. Prime painting unprimed surfaces to be painted under this Section.
  3. Painting items furnished with a prime coat of paint, including touching up of or repairing of abraded, damaged or rusted prime coats applied by others.
  4. Painting ferrous metal (except stainless steel) exposed to view.
  5. Painting galvanized ferrous metals exposed to view.
  6. Painting gypsum drywall exposed to view.
  7. Incidental painting and touching up as required to produce proper finish for painted surfaces, including touching up of factory finished items.
  8. Painting of any surface not specifically mentioned to be painted herein or on construction documents, but for which painting is obviously necessary to complete the job, or work which comes within the intent of these specifications, is to be included as though specified.

**1.2 RELATED WORK:**

- A. Activity Hazard Analysis: Section 01 35 26, SAFETY REQUIREMENTS.
- E. Shop prime painting of steel and ferrous metals: Division 08 - OPENINGS.
- F. Prefinished flush doors with transparent finishes: Section 08 14 00, WOOD DOORS.

**1.3 SUBMITTALS:**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- C. Painter qualifications.
- D. Manufacturer's Literature and Data:
1. Before work is started, or sample panels are prepared, submit manufacturer's literature and technical data, the current Master Painters Institute (MPI) "Approved Product List" indicating brand label, product name and product code as of the date of contract award,

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

will be used to determine compliance with the submittal requirements of this specification. The Contractor may choose to use subsequent MPI "Approved Product List", however, only one (1) list may be used for the entire contract and each coating system is to be from a single manufacturer. All coats on a particular substrate must be from a single manufacturer. No variation from the MPI "Approved Product List" where applicable is acceptable.

#### **1.4 DELIVERY AND STORAGE:**

- A. Deliver materials to site in manufacturer's sealed container marked to show following:
  - 1. Name of manufacturer.
  - 2. Product type.
  - 3. Batch number.
  - 4. Instructions for use.
  - 5. Safety precautions.
- B. In addition to manufacturer's label, provide a label legibly printed as following:
  - 1. Federal Specification Number, where applicable, and name of material.
  - 2. Surface upon which material is to be applied.
  - 3. Specify Coat Types: Prime; body; finish; etc.
- C. Maintain space for storage, and handling of painting materials and equipment in a ventilated, neat and orderly condition to prevent spontaneous combustion from occurring or igniting adjacent items.
- D. Store materials at site at least 24 hours before using, at a temperature between 7 and 30 degrees C (45 and 85 degrees F).

#### **1.5 QUALITY ASSURANCE:**

- A. Qualification of Painters: Use only qualified journeyman painters for the mixing and application of paint on exposed surfaces. Submit evidence that key personnel have successfully performed surface preparation and application of coating on a minimum of three (3) similar projects within the past three (3) years.
- B. Paint Coordination: Provide finish coats which are compatible with the prime paints used. Review other Sections of these specifications in which prime paints are to be provided to ensure compatibility of the total coatings system for the various substrates. Upon request from other subcontractors, furnish information on the characteristics of the finish materials proposed to be used, to ensure that compatible prime coats are

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

used. Provide barrier coats over incompatible primers or remove and re-prime as required. Notify the Contracting Officer Representative (COR) in writing of any anticipated problems using the coating systems as specified with substrates primed by others.

#### **1.7 REGULATORY REQUIREMENTS:**

- A. Paint materials are to conform to the restrictions of the local Environmental and Toxic Control jurisdiction.
  - 1. Volatile Organic Compounds (VOC) Emissions Requirements: Field-applied paints and coatings that are inside the waterproofing system to not exceed limits of authorities having jurisdiction.
  - 3. Asbestos: Provide materials that do not contain asbestos.
  - 4. Chromate, Cadmium, Mercury, and Silica: Provide materials that do not contain zinc-chromate, strontium-chromate, Cadmium, mercury or mercury compounds or free crystalline silica.
  - 5. Human Carcinogens: Provide materials that do not contain any of the ACGIH-BKLT and ACGHI-DOC confirmed or suspected human carcinogens.
  - 6. Use high performance acrylic paints in place of alkyd paints.

#### **1.8 SAFETY AND HEALTH**

- A. Apply paint materials using safety methods and equipment in accordance with the following:
  - 1. Comply with applicable Federal, State, and local laws and regulations, and with the ACCIDENT PREVENTION PLAN, including the Activity Hazard Analysis (AHA) as specified in Section 01 35 26, SAFETY REQUIREMENTS. The AHA is to include analyses of the potential impact of painting operations on painting personnel and on others involved in and adjacent to the work zone.
- B. Safety Methods Used During Paint Application: Comply with the requirements of SSPC PA Guide 10.
- C. Toxic Materials: To protect personnel from overexposure to toxic materials, conform to the most stringent guidance of:
  - 1. The applicable manufacturer's Material Safety Data Sheets (MSDS) or local regulation.
  - 2. 29 CFR 1910.1000.
  - 3. ACHIH-BKLT and ACGHI-DOC, threshold limit values.

VAMC Providence Replace Fire Doors  
 Providence, Rhode Island  
 VA Project No. 650-16-011

01-01-16  
 January 13, 2017  
 Issued for Construction

### 1.9 APPLICABLE PUBLICATIONS:

- A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in the text by basic designation only.
- B. American Conference of Governmental Industrial Hygienists (ACGIH):  
 ACGIH TLV-BKLT-2012.....Threshold Limit Values (TLV) for Chemical Substances and Physical Agents and Biological Exposure Indices (BEIs)  
 ACGIH TLV-DOC-2012.....Documentation of Threshold Limit Values and Biological Exposure Indices, (Seventh Edition)
- C. ASME International (ASME):  
 A13.1-07(R2013).....Scheme for the Identification of Piping Systems
- D. Code of Federal Regulation (CFR):  
 40 CFR 59.....Determination of Volatile Matter Content, Water Content, Density Volume Solids, and Weight Solids of Surface Coating
- E. Commercial Item Description (CID):  
 A-A-1272A.....Plaster Gypsum (Spackling Compound)
- F. Federal Specifications (Fed Spec):  
 TT-P-1411A.....Paint, Copolymer-Resin, Cementitious (For Waterproofing Concrete and Masonry Walls) (CEP)
- G. Master Painters Institute (MPI):  
 1.....Aluminum Paint  
 4.....Interior/ Exterior Latex Block Filler  
 5.....Exterior Alkyd Wood Primer  
 7.....Exterior Oil Wood Primer  
 8.....Exterior Alkyd, Flat MPI Gloss Level 1  
 9.....Exterior Alkyd Enamel MPI Gloss Level 6  
 10.....Exterior Latex, Flat  
 11.....Exterior Latex, Semi-Gloss  
 18.....Organic Zinc Rich Primer  
 22.....Aluminum Paint, High Heat (up to 590° - 1100F)  
 27.....Exterior / Interior Alkyd Floor Enamel, Gloss  
 31.....Polyurethane, Moisture Cured, Clear Gloss  
 36.....Knot Sealer  
 43.....Interior Satin Latex, MPI Gloss Level 4  
 44.....Interior Low Sheen Latex, MPI Gloss Level 2

45.....	Interior Primer Sealer
46.....	Interior Enamel Undercoat
47.....	Interior Alkyd, Semi-Gloss, MPI Gloss Level 5
48.....	Interior Alkyd, Gloss, MPI Gloss Level 6
50.....	Interior Latex Primer Sealer
51.....	Interior Alkyd, Eggshell, MPI Gloss Level 3
52.....	Interior Latex, MPI Gloss Level 3
53.....	Interior Latex, Flat, MPI Gloss Level 1
54.....	Interior Latex, Semi-Gloss, MPI Gloss Level 5
59.....	Interior/Exterior Alkyd Porch & Floor Enamel, Low Gloss
60.....	Interior/Exterior Latex Porch & Floor Paint, Low Gloss
66.....	Interior Alkyd Fire Retardant, Clear Top-Coat (ULC Approved)
67.....	Interior Latex Fire Retardant, Top-Coat (ULC Approved)
68.....	Interior/ Exterior Latex Porch & Floor Paint, Gloss
71.....	Polyurethane, Moisture Cured, Clear, Flat
77.....	Epoxy Cold Cured, Gloss
79.....	Marine Alkyd Metal Primer
90.....	Interior Wood Stain, Semi-Transparent
91.....	Wood Filler Paste
94.....	Exterior Alkyd, Semi-Gloss
95.....	Fast Drying Metal Primer
98.....	High Build Epoxy Coating
101.....	Epoxy Anti-Corrosive Metal Primer
108.....	High Build Epoxy Coating, Low Gloss
114.....	Interior Latex, Gloss
119.....	Exterior Latex, High Gloss (acrylic)
134.....	Galvanized Water Based Primer
135.....	Non-Cementitious Galvanized Primer
138.....	Interior High Performance Latex, MPI Gloss Level 2
139.....	Interior High Performance Latex, MPI Gloss Level 3
140.....	Interior High Performance Latex, MPI Gloss Level 4

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

141.....Interior High Performance Latex (SG) MPI Gloss  
Level 5

163.....Exterior Water Based Semi-Gloss Light Industrial  
Coating, MPI Gloss Level 5

G. Society for Protective Coatings (SSPC):

SSPC SP 1-82 (R2004).....Solvent Cleaning

SSPC SP 2-82 (R2004).....Hand Tool Cleaning

SSPC SP 3-28 (R2004).....Power Tool Cleaning

SSPC SP 10/NACE No.2.....Near-White Blast Cleaning

SSPC PA Guide 10.....Guide to Safety and Health Requirements

H. Maple Flooring Manufacturer's Association (MFMA):

I. U.S. National Archives and Records Administration (NARA):

29 CFR 1910.1000.....Air Contaminants

J. Underwriter's Laboratory (UL)

**PART 2 - PRODUCTS**

**2.1 MATERIALS:**

- A. Conform to the coating specifications and standards referenced in PART 3.  
Submit manufacturer's technical data sheets for specified coatings and solvents.

**2.2 PAINT PROPERTIES:**

- A. Use ready-mixed (including colors), except two component epoxies, polyurethanes, polyesters, paints having metallic powders packaged separately and paints requiring specified additives.
- B. Where no requirements are given in the referenced specifications for primers, use primers with pigment and vehicle, compatible with substrate and finish coats specified.
- C. Provide undercoat paint produced by the same manufacturer as the finish coats. Use only thinners approved by the paint manufacturer, and use only to recommended limits.
- D. VOC Content: For field applications that are inside the weatherproofing system, paints and coating to comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:
1. Flat Paints and Coatings: 50 g/L.
  2. Non-flat Paints and Coatings: 150 g/L.
  4. Primers, Sealers, and Undercoaters: 200 g/L.
  5. Anticorrosive and Antirust Paints applied to Ferrous Metals: 250 g/L.
  6. Zinc-Rich Industrial Maintenance Primers: 340 g/L.



VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

E. VOC test method for paints and coatings is to be in accordance with 40 CFR 59 (EPA Method 24). Part 60, Appendix A with the exempt compounds' content determined by Method 303 (Determination of Exempt Compounds) in the South Coast Air Quality Management District's (SCAQMD) "Laboratory Methods of Analysis for Enforcement Samples" manual.

B. The minimum-content standards are based on the weight (not the volume) of the material.

### **PART 3 - EXECUTION**

#### **3.1 JOB CONDITIONS:**

A. Safety: Observe required safety regulations and manufacturer's warning and instructions for storage, handling and application of painting materials.

1. Take necessary precautions to protect personnel and property from hazards due to falls, injuries, toxic fumes, fire, explosion, or other harm.
2. Deposit soiled cleaning rags and waste materials in metal containers approved for that purpose. Dispose of such items off the site at end of each day's work.

B. Atmospheric and Surface Conditions:

1. Do not apply coating when air or substrate conditions are:
  - a. Less than 3 degrees C (5 degrees F) above dew point.
  - b. Below 10 degrees C (50 degrees F) or over 35 degrees C (95 degrees F), unless specifically pre-approved by the COR and the product manufacturer. Under no circumstances are application conditions to exceed manufacturer recommendations.
  - c. When the relative humidity exceeds 85 percent; or to damp or wet surfaces; unless otherwise permitted by the paint manufacturer's printed instructions.
2. Maintain interior temperatures until paint dries hard.

#### **3.2 INSPECTION:**

A. Examine the areas and conditions where painting and finishing are to be applied and correct any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

#### **3.3 GENERAL WORKMANSHIP REQUIREMENTS:**

A. Application may be by brush or roller. Spray application only upon acceptance from the COR in writing.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

- B. Furnish to the COR a painting schedule indicating when the respective coats of paint for the various areas and surfaces will be completed. This schedule is to be kept current as the job progresses.
- C. Protect work at all times. Protect all adjacent work and materials by suitable covering or other method during progress of work. Upon completion of the work, remove all paint spots from floors, glass and other surfaces. Remove from the premises all rubbish and accumulated materials of whatever nature not caused by others and leave work in a clean condition.
- D. Remove and protect hardware, accessories, device plates, lighting fixtures, and factory finished work, and similar items, or provide in place protection. Upon completion of each space, carefully replace all removed items by workmen skilled in the trades involved.
- E. When indicated to be painted, remove electrical panel box covers and doors before painting walls. Paint separately and re-install after all paint is dry.
- F. Materials are to be applied under adequate illumination, evenly spread and flowed on smoothly to avoid runs, sags, holidays, brush marks, air bubbles and excessive roller stipple.
- G. Apply materials with a coverage to hide substrate completely. When color, stain, dirt or undercoats show through final coat of paint, the surface is to be covered by additional coats until the paint film is of uniform finish, color, appearance and coverage, at no additional cost to the Government.
- H. All coats are to be dry to manufacturer's recommendations before applying succeeding coats.
- I. All suction spots or "hot spots" in plaster after the application of the first coat are to be touched up before applying the second coat.

1.

### **3.4 SURFACE PREPARATION:**

#### **A. General:**

- 1. The Contractor shall be held wholly responsible for the finished appearance and satisfactory completion of painting work. Properly prepare all surfaces to receive paint, which includes cleaning, sanding, and touching-up of all prime coats applied under other Sections of the work. Broom clean all spaces before painting is started. All surfaces to be painted or finished are to be completely dry, clean and smooth.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

2. See other sections of specifications for specified surface conditions and prime coat.
3. Perform preparation and cleaning procedures in strict accordance with the paint manufacturer's instructions and as herein specified, for each particular substrate condition.
4. Clean surfaces before applying paint or surface treatments with materials and methods compatible with substrate and specified finish. Remove any residue remaining from cleaning agents used. Schedule the cleaning and painting so that dust and other contaminants from the cleaning process will not fall in wet, newly painted surfaces.
5. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
  - e. Gypsum Board: 12 percent.

C. Ferrous Metals:

1. Remove oil, grease, soil, drawing and cutting compounds, flux and other detrimental foreign matter in accordance with SSPC-SP 1 (Solvent Cleaning).
2. Remove loose mill scale, rust, and paint, by hand or power tool cleaning, as defined in SSPC-SP 2 (Hand Tool Cleaning) and SSPC-SP 3 (Power Tool Cleaning).
3. Fill dents, holes and similar voids and depressions in flat exposed surfaces of hollow steel frames, access panels and similar items specified to have semi-gloss or gloss finish with TT-F-322D (Filler, Two-Component Type, For Dents, Small Holes and Blow-Holes). Finish flush with adjacent surfaces.
  - a. Fill flat head countersunk screws used for permanent anchors.
  - b. Do not fill screws of item intended for removal such as glazing beads.
4. Spot prime abraded and damaged areas in shop prime coat which expose bare metal with same type of paint used for prime coat. Feather edge of spot prime to produce smooth finish coat.
5. Spot prime abraded and damaged areas which expose bare metal of factory finished items with paint as recommended by manufacturer of item.

F. Gypsum Plaster and Gypsum Board:

1. Remove efflorescence, loose and chalking plaster or finishing materials.
2. Remove dust, dirt, and other deterrents to paint adhesion.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

3. Fill holes, cracks, and other depressions with CID-A-A-1272A finished flush with adjacent surface, with texture to match texture of adjacent surface. Patch holes over 25 mm (1-inch) in diameter as specified in Section for plaster or gypsum board.

### **3.5 PAINT PREPARATION:**

- A. Thoroughly mix painting materials to ensure uniformity of color, complete dispersion of pigment and uniform composition.
- B. Do not thin unless necessary for application and when finish paint is used for body and prime coats. Use materials and quantities for thinning as specified in manufacturer's printed instructions.
- C. Remove paint skins, then strain paint through commercial paint strainer to remove lumps and other particles.
- E. For tinting required to produce exact shades specified, use color pigment recommended by the paint manufacturer.

### **3.6 APPLICATION:**

- A. Start of surface preparation or painting will be construed as acceptance of the surface as satisfactory for the application of materials.
- B. Unless otherwise specified, apply paint in three (3) coats; prime, body, and finish. When two (2) coats applied to prime coat are the same, first coat applied over primer is body coat and second coat is finish coat.
- C. Apply each coat evenly and cover substrate completely.
- D. Allow not less than 48 hours between application of succeeding coats, except as allowed by manufacturer's printed instructions, and approved by COR.
- E. Apply by brush or roller. Spray application for new or existing occupied spaces only upon approval by acceptance from COR in writing.
  1. Apply painting materials specifically required by manufacturer to be applied by spraying.
  2. In new construction and in existing occupied spaces, where paint is applied by spray, mask or enclose with polyethylene, or similar air tight material with edges and seams continuously sealed including items specified in "Building and Structural Work Field Painting"; "Work not Painted"; motors, controls, telephone, and electrical equipment, fronts of sterilizes and other recessed equipment and similar prefinished items.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

- F. Do not paint in closed position operable items such as access doors and panels, window sashes, overhead doors, and similar items except overhead roll-up doors and shutters.

### **3.7 PRIME PAINTING:**

- A. After surface preparation, prime surfaces before application of body and finish coats, except as otherwise specified.
- B. Spot prime and apply body coat to damaged and abraded painted surfaces before applying succeeding coats.
- C. Additional field applied prime coats over shop or factory applied prime coats are not required except for exterior exposed steel apply an additional prime coat.
- F. Metals except boilers, incinerator stacks, and engine exhaust pipes:
  - 2. Zinc-coated steel and iron: MPI 134 (Waterborne Galvanized Primer).
- G. Gypsum Board:
  - 1. Surfaces scheduled to have MPI 53 (Interior Latex, Flat), MPI 52 (Interior Latex, MPI Gloss Level 3), finish: Use MPI 53 (Interior Latex, MPI Gloss Level 3).
  - 2. Primer: MPI 50 (Interior Latex Primer Sealer).

### **3.9 INTERIOR FINISHES:**

- A. Apply following finish coats over prime coats in spaces or on surfaces specified in Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Metal Work:
  - 1. Apply to exposed surfaces.
  - 2. Omit body and finish coats on surfaces concealed after installation except electrical conduit containing conductors over 600 volts.
  - 3. Ferrous Metal, Galvanized Metal, and Other Metals Scheduled:
    - a. Apply two (2) coats of MPI 47 (Interior Alkyd, Semi-Gloss) unless specified otherwise.
- C. Gypsum Board:
  - 1. One (1) coat of MPI 45 (Interior Primer Sealer) plus one (1) coat of MPI 139 (Interior High Performance Latex, MPI Gloss level 3).

### **3.10 REFINISHING EXISTING PAINTED SURFACES:**

- A. Clean, patch and repair existing surfaces as specified under "Surface Preparation". No "telegraphing" of lines, ridges, flakes, etc., through new surfacing is permitted. Where this occurs, sand smooth and re-finish until surface meets with COR's approval.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

- B. Remove and reinstall items as specified under "General Workmanship Requirements".
- C. Remove existing finishes or apply separation coats to prevent non compatible coatings from having contact.
- D. Patched or Replaced Areas in Surfaces and Components: Apply spot prime and body coats as specified for new work to repaired areas or replaced components.
- E. Except where scheduled for complete painting apply finish coat over plane surface to nearest break in plane, such as corner, reveal, or frame.
- G. Refinish areas as specified for new work to match adjoining work unless specified or scheduled otherwise.
- I. Sand or dull glossy surfaces prior to painting.
- J. Sand existing coatings to a feather edge so that transition between new and existing finish will not show in finished work.

**3.11 PAINT COLOR:**

- A. Color and gloss of finish coats is specified in Section 09 06 00, SCHEDULE FOR FINISHES.
- C. Coat Colors:
  - 1. Color of priming coat: Lighter than body coat.
  - 2. Color of body coat: Lighter than finish coat.
  - 3. Color prime and body coats to not show through the finish coat and to mask surface imperfections or contrasts.

**3.13 BUILDING AND STRUCTURAL WORK FIELD PAINTING:**

- A. Painting and finishing of interior and exterior work except as specified here-in-after.
  - 2. Painting of disturbed, damaged and repaired or patched surfaces when entire space is not scheduled for complete repainting or refinishing.
- B. Building and Structural Work not Painted:
  - 1. Prefinished items:
    - a. Casework, doors, elevator entrances and cabs, metal panels, wall covering, and similar items specified factory finished under other sections.
    - b. Factory finished equipment and pre-engineered metal building components such as metal roof and wall panels.
  - 2. Finished surfaces:

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

- a. Hardware except ferrous metal.
- b. Anodized aluminum, stainless steel, chromium plating, copper, and brass, except as otherwise specified.
- c. Signs, fixtures, and other similar items integrally finished.
- 3. Concealed surfaces:
  - a. Inside dumbwaiter, elevator and duct shafts, interstitial spaces, pipe basements, crawl spaces, pipe tunnels, above ceilings, attics, except as otherwise specified.
  - b. Inside walls or other spaces behind access doors or panels.
  - c. Surfaces concealed behind permanently installed casework and equipment.
- 4. Moving and operating parts:
  - a. Shafts, chains, gears, mechanical and electrical operators, linkages, and sprinkler heads, and sensing devices.
  - b. Tracks for overhead or coiling doors, shutters, and grilles.
- 5. Labels:
  - a. Code required label, such as Underwriters Laboratories Inc., Intertek Testing Service or Factory Mutual Research Corporation.
  - b. Identification plates, instruction plates, performance rating, and nomenclature.
- 8. Gaskets.
- 13. Ceilings, walls, columns in interstitial spaces.

B. Fire and Smoke Partitions:

- 1. Identify partitions above ceilings on both sides of partitions except within shafts in letters not less than 64 mm (2 1/2 inches) high.
- 2. Stenciled message: "FIRE BARRIER" as applicable.
- 3. Locate not more than 6096 mm (20 feet) on center on corridor sides of partitions, and with a least one (1) message per room on room side of partition.
- 4. Use semi-gloss paint of color that contrasts with color of substrate.

**3.15 PROTECTION CLEAN UP, AND TOUCH-UP:**

- A. Protect work from paint droppings and spattering by use of masking, drop cloths, removal of items or by other approved methods.
- B. Upon completion, clean paint from hardware, glass and other surfaces and items not required to be painted of paint drops or smears.

VAMC Providence Replace Fire Doors  
Providence, Rhode Island  
VA Project No. 650-16-011

01-01-16  
January 13, 2017  
Issued for Construction

C. Before final inspection, touch-up or refinished in a manner to produce solid even color and finish texture, free from defects in work which was damaged or discolored.

- - - E N D - - -