

# Project Schedule Narrative Report

For The

D020597

PS 446K

Update SCHEDULE

Awarded Company

ACS System Associates, Inc.

Prepared by



March 11, 2024

# Update Schedule Analysis

## A.) General Work Plan

- Notice to Proceed Date = 11-Sep-23
- Project Substantial Completion Date = 3-Mar-25
- Project Final Completion Date = 2-May-25

## B.) Baseline Schedule Critical path summary

- Notice to Proceed (NTP)
- Submission of DOB General Construction Permit
- Submission of Air Handling Units Submittal
- Review and Approval of Air Handling Units Submittal
- Review and Approval of DOB General Construction Permit
- Mobilization
- Install Temp. Safety Barriers
- Install Egres,Safety Measures, Brigdes and Fire protection
- BF: Remove ACM
- BF: Remove Green Concealed Gasket
- BF: Remove ACM Thermal System Pipe Insulation
- BF: Remove ACM Gray Steam Trap Gaskets
- BF: Remove ACM Concealed Gasket Material Ass. with cont. valves and large pipe connections
- 3F: Remove ACM
- 3F: Remove Green Concealed Gasket
- 3F: Remove ACM Thermal System Pipe Insulation
- 3F: Remove ACM Gray Steam Trap Gaskets
- 3F: Remove ACM Concealed Gasket Material Ass. with cont. valves and large pipe connections
- RF: Remove ACM Thermal System Pipe Insulation
- BF: Remove Duct Smoke Detector
- BF: Disconnect piping
- BF: Disconnect ductwork
- BF: Demo piping
- BF: Demo ductwork
- BF: Demo units/blower.
- 3F: Remove Duct Smoke Detector
- 3F: Disconnect piping
- 3F: Disconnect and Remove Existing Starter conduites and Wiring
- 3F: Disconnect ductwork
- 3F: Demo piping
- 3F: Demo ductwork
- 3F: Demo units/blower.
- RF: Remove Existing Starter Conduits and Wiring
- RF: Remove Duct Smoke Detector
- RF: Disconnect piping
- RF: Disconnect ductwork
- RF: Remove Exhaust Fan
- RF: Demo piping
- RF: Demo ductwork
- RF: Demo units/blower.
- BF: Install Steel Supports and Hangers
- BF: Clean existing ductwork
- Fabricate and Delivery of HVAC Unit
- BF: Install units/blowers
- BF: Install ductwork
- BF: Install piping
- BF: Install Disconnect Switch
- BF: Install VFD
- BF: Install new Panels
- BF: Install duct smoke detector
- BF: Install new H-O-A Starter
- BF: Install new starters for Blowers
- BF: Pressure tests for piping/ductwork
- BF: Insulate piping/ductwork
- BF: Balancing
- BF: Startup

- BF: Mechanical CID Inspection/Approval
- BF: Civil CID Inspection/Approval
- 3F: Extend/Repair Concrete Pad
- 3F: Clean existing ductwork
- 3F: Install units/blowers
- 3F: Install ductwork
- 3F: Install piping
- 3F: Install Disconnect Switch
- 3F: Install VFD
- 3F: Install new Panels
- 3F: Install duct smoke detector
- 3F: Install new H-O-A Starter
- 3F: Install new starters for Blowers
- 3F: Pressure tests for piping/ductwork
- 3F: Electrical CID Inspection/Approval
- 3F: Insulate piping/ductwork
- 3F: Increase and Re-Balance Supply/Exhaust Air Flow at Grilles and Diffusers
- 3F: Reinstall Existing Roof Vent after completion of Equipment rigging
- 3F: Balancing
- 3F: Startup
- 3F: Mechanical CID Inspection/Approval
- RF: Civil Extend/Repair Existing Concrete Pad
- RF: Clean existing ductwork
- RF: Install units/blowers
- RF: Install ductwork
- RF: Install piping
- RF: Install Disconnect Switch
- RF: Install VFD
- RF: Install new Panels
- RF: Install duct smoke detector
- RF: Install new H-O-A Starter
- RF: Install new starters for Blowers
- RF: Pressure tests for piping/ductwork
- RF: Electrical CID Inspection/Approval
- RF: Insulate piping/ductwork
- RF: Balancing
- RF: Startup
- RF: Mechanical CID Inspection/Approval
- Project Substantial Completion
- Remove Safety barriers and Egress Measures
- Punch-List
- Testing and Commissioning
- Project Final Completion
- Demobilization

### **C.) Work hours, holidays, and nonworking days.**

Work hours will be from 4:00 PM to 11:00 PM, Monday through Friday.

Holidays and nonworking days during the construction season include:

- **January 1st (New year's day)**
- **January 15th (Martin Luther King Jr. Day)**
- **February 19th (Presidents Day)**
- **May 27th (Memorial Day)**
- **July 4th (Independence Day)**
- **September 2nd (Labor Day)**
- **October 14th (Columbus Day)**
- **November 11th (Veterans Day)**
- **November 28th (Thanksgiving Day)**
- **November 29th (Day after Thanksgiving)**
- **December 25th (Christmas Day)**

## Activities Completed:

- Submission of Piping Insulation (HVAC) Submittal
- Submission of Ductwork Insulation (HVAC) Submittal
- Submission of Metal Ductwork Submittal
- Submission of Duct Accessories Submittal
- Submission of Feed Water Equipment Submittal
- Submission of DOB General Construction Permit
- Submission of Valve Schedule Submittal
- Submission of Valves (HVAC) Submittal
- Submission of Steam and Condensate Specialties Submittal
- Submission of Air Handling Units Submittal
- Submission of Thermometer and Gauges Submittal
- Submission of Wiring Systems Submittal
- Submission of Raceway, Fittings, Supporting Devices, Boxes and Accessories Submittal
- Submission of Wiring Devices Submittal
- Submission of Panelboards Submittal
- Submission of General Provisions for Heating, Ventilating and Air Conditioning Work submittal
- Submission of Piping, Ductwork and Wiring Diagram Submittal
- Submission of Coordination Drawings Submittal
- Submission of Centrifugal Fans Submittal
- Submission of Selective Removals & Demolition Submittal
- Submission of Asbestos Abatement Submittal
- Submission of PCB-Containing Caulk Removal Work Submittal
- Submission of Concrete Repair Work Submittal
- Submission of Structural Steel Submittal
- Submission of Firestopping/Smoke Seals Submittal
- Submission of Coils Submittal
- Submission of HVAC Identification Submittal
- Submission of HVAC Piping Submittal
- Submission of VFD-For Exhaust Fans Submittal
- Submission of Damper Assemblies Submittal
- Submission of Balancing of Systems Submittal
- Submission of Boxes Submittal
- Submission of Motors, Motor Control Centers, Starter and Control Equipment Submittal
- Submission of Safety Program Submittal
- Submission of Plaster Submittal
- Submission of Painting Submittal
- Submission of Vibration Isolation, HVAC Systems Submittal

- Review and Approval of Piping Insulation (HVAC) Submittal
- Review and Approval of Ductwork Insulation (HVAC) Submittal
- Review and Approval of Metal Ductwork Submittal
- Review and Approval of Duct Accessories Submittal
- Review and Approval of Feed Water Equipment Submittal
- Review and Approval of Valves (HVAC) Submittal
- Review and Approval of Steam and Condensate Specialties Submittal
- Review and Approval of Thermometer and Gauges Submittal
- Review and Approval of Wiring Systems Submittal
- Review and Approval of Raceway, Fittings, Supporting Devices, Boxes and Accessories Submittal
- Review and Approval of Wiring Devices Submittal
- Review and Approval of Panelboards Submittal
- Review and Approval of Valve Schedule Submittal
- Review and Approval of Coils Submittal
- Review and Approval of Centrifugal Fans Submittal
- Review and Approval of HVAC Piping Submittal
- Review and Approval of Air Handling Units Submittal
- Review and Approval of Selective Removals & Demolition Submittal
- Review and Approval of Asbestos Abatement Submittal
- Review and Approval of PCB-Containing Caulk Removal Work Submittal
- Review and Approval of Concrete Repair Work Submittal
- Review and Approval of Structural Steel Submittal
- Review and Approval of Firestopping/Smoke Seals Submittal
- Review and Approval of General Provisions for Heating, Ventilating and Air Conditioning Work Submittal
- Review and Approval of Piping, Ductwork and Wiring Diagram Submittal
- Review and Approval of Coordination Drawings Submittal
- Review and Approval of HVAC Identification Submittal
- Review and Approval of Damper Assemblies Submittal
- Review and Approval of Balancing of Systems Submittal
- Review and Approval of Motors, Motor Control Centers, Starter and Control Equipment Submittal
- Review and Approval of Safety Program Submittal
- Review and Approval of Plaster Submittal
- Review and Approval of Painting Submittal
- Review and Approval of Vibration Isolation, HVAC Systems Submittal
- Review and Approval of Boxes Submittal
- Review and Approval of VFD-For Exhaust Fans Submittal

## Critical Activities:

- Submission of VFD-For Exhaust Fans workshop drawing
- Review and Approval of DOB General Construction Permit
- Mobilization
- Submission of Feed Water Equipment workshop drawing
- Submission of Air Handling Units workshop drawing
- Submission of Centrifugal Fans workshop drawing
- Submission of Metal Ductwork workshop drawing
- Submission of Duct Accessories Mockup Sample
- Install Temp. Safety Barriers
- Submission of Coils workshop drawing
- Submission of Wiring Systems workshop drawing
- Submission of Raceway, Fittings, Supporting Devices, Boxes and Accessories workshop drawing
- Submission of Panelboards workshop drawing
- Submission of Wiring Devices Mockup Sample
- Review and Approval of VFD-For Exhaust Fans workshop drawing
- Submission of Asbestos Abatement workshop drawing
- Submission of Structural Steel workshop drawing
- Submission of Firestopping/Smoke Seals workshop drawing
- Install Egres, Safety Measures, Bridges and Fire protection
- Review and Approval of Feed Water Equipment workshop drawing
- Review and Approval of Air Handling Units workshop drawing
- Review and Approval of Centrifugal Fans workshop drawing
- Review and Approval of Metal Ductwork workshop drawing
- Review and Approval of Duct Accessories Mockup Sample
- Review and Approval of Coils workshop drawing
- Review and Approval of Wiring Systems workshop drawing
- Review and Approval of Raceway, Fittings, Supporting Devices, Boxes and Accessories workshop drawing
- Review and Approval of Panelboards workshop drawing
- Review and Approval of Wiring Devices Mockup Sample
- Review and Approval of Asbestos Abatement workshop drawing
- Review and Approval of Structural Steel workshop drawing
- Review and Approval of Firestopping/Smoke Seals workshop drawing
- Submission of Plaster Mockup Sample
- Submission of Painting Mockup Sample
- Review and Approval of Plaster Mockup Sample
- Review and Approval of Painting Mockup Sample
- BF: Remove ACM
- BF: Remove Green Concealed Gasket
- BF: Remove ACM Thermal System Pipe Insulation
- BF: Remove ACM Gray Steam Trap Gaskets
- BF: Remove ACM Concealed Gasket Material Ass. with cont. valves and large pipe connections
- 3F: Remove ACM
- 3F: Remove Green Concealed Gasket
- 3F: Remove ACM Thermal System Pipe Insulation
- 3F: Remove ACM Gray Steam Trap Gaskets
- 3F: Remove ACM Concealed Gasket Material Ass. with cont. valves and large pipe connections
- RF: Remove ACM Thermal System Pipe Insulation
- BF: Remove Duct Smoke Detector
- BF: Disconnect piping

- BF: Disconnect ductwork
- BF: Remove Sliding Doors
- BF: Demo piping
- Fabricate and Delivery of VDF
- BF: Demo ductwork
- BF: Enlarge Door Opening
- Fabricate and Delivery of Steam Coil
- Fabricate and Delivery of Condensate Return Unit
- BF: Demo units/blower.
- 3F: Remove Duct Smoke Detector
- 3F: Disconnect piping
- 3F: Disconnect and Remove Existing Starter conduites and Wiring
- 3F: Disconnect ductwork
- 3F: Demo piping
- 3F: Remove Existing Air Vent on Roof
- 3F: Demo ductwork
- 3F: Demo units/blower.
- RF: Remove Existing Starter Conduits and Wiring
- RF: Remove Duct Smoke Detector
- RF: Disconnect piping
- RF: Disconnect ductwork
- Fabricate and Delivery of HVAC Unit
- RF: Remove Exhaust Fan
- RF: Demo piping
- RF: Demo ductwork
- RF: Demo units/blower.
- BF: Install Steel Supports and Hangers
- BF: Clean existing ductwork
- BF: Install New concrete pad
- BF: Install units/blowers
- BF: Install ductwork
- BF: Install piping
- BF: Install Disconnect Switch
- BF: Install VFD
- BF: Install new Panels
- BF: Install duct smoke detector
- BF: Install new H-O-A Starter
- BF: Install Firestop around penetrations
- BF: Install new starters for Blowers
- BF: Pressure tests for piping/ductwork
- BF: Electrical CID Inspection/Approval
- BF: Insulate piping/ductwork
- BF: Patch, Paint and Repair Work Surroundings to match existing
- BF: Balancing
- BF: Startup
- BF: Mechanical CID Inspection/Approval
- BF: Civil CID Inspection/Approval
- 3F: Extend/Repair Concrete Pad
- 3F: Clean existing ductwork
- 3F: Patch, Paint and Repair work surrounding area to match existing
- 3F: Civil CID Inspection/Approval
- 3F: Install units/blowers



- 3F: Install ductwork
- 3F: Install piping
- 3F: Install Disconnect Switch
- 3F: Install VFD
- 3F: Re-use and Extend Existing Fire Alarm Wiring to new duct smoke detector
- 3F: Install new Panels
- 3F: Install duct smoke detector
- 3F: Install new H-O-A Starter
- 3F: Install new starters for Blowers
- 3F: Pressure tests for piping/ductwork
- 3F: Electrical CID Inspection/Approval
- 3F: Insulate piping/ductwork
- 3F: Increase and Re-Balance Supply/Exhaust Air Flow at Grilles and Diffusers
- 3F: Reinstall Existing Roof Vent after completion of Equipment rigging
- 3F: Balancing
- 3F: Startup
- 3F: Mechanical CID Inspection/Approval
- RF: Civil Extend/Repair Existing Concrete Pad
- RF: Clean existing ductwork
- RF: Install units/blowers
- RF: Install ductwork
- RF: Install piping
- RF: Install Ass. Exhaust Air Damper
- RF: Install Disconnect Switch
- RF: Re-use and Extend Existing Fire Alarm Wiring to new duct smoke detector
- RF: Install VFD
- RF: Install new Panels
- RF: Install duct smoke detector
- RF: Install new H-O-A Starter
- RF: Install new starters for Blowers
- RF: Install new Exhaust Fan
- RF: Pressure tests for piping/ductwork
- RF: Electrical CID Inspection/Approval
- RF: Reconnect New Exhaust Fan to existing duct work
- RF: Insulate piping/ductwork
- RF: Balancing
- RF: Startup
- RF: Mechanical CID Inspection/Approval
- Water Disinfection
- Project Substantial Completion
- Remove Safety barriers and Egress Measures
- Punch-List
- Testing and Commissioning
- Project Final Completion
- Demobilization