The following revisions are herewith incorporated into the Tender Documents and shall be included in the Tender Price. Where a revision is called for in one drawing or section of the Specification, it shall be considered revised for all related drawings and sections of the Specification. This Addendum shall be returned with other Tender Documents at the time of submission.

This addendum (8 pages) shall form a part of and be included in the Contract Documents for the above titled project and no consideration will be entertained for extras to the Contract due to failure of the contractor to become thoroughly familiar with this addendum.

Signify that Addendum has been received by listing the Addendum number and date in the appropriate spaces on the Tender Form.

SPECIFICATIONS REVISIONS:

MECHANCIAL

.1 The following specifications are to be included into the project documents:
  .1 Section 21 13 16 – DRY PIPE SPRINKLER SYSTEMS

REQUEST FOR EQUALS:

.1 See attached list of products (1 pages) that were requested and approved as equals to the specified light fixtures. (Previously missing from Addendum 07)

Mechanical Engineer of Record

End of Addendum

Part 1 General

1.1 SUMMARY

.1 Section Includes:

.1 Permits, installation, testing, certification, and commissioning of dry pipe sprinkler systems as described herein, and as diagrammatically illustrated on the Contract Drawings.

.2 Related Requirements:

.1 Section 21 05 00 – Common Work Results for Fire Suppression.

.2 Section 21 05 53 – Identification for Fire Suppression Piping and Equipment.

.3 Division 26 – Electrical (Including Fire alarm System)

1.2 REFERENCES

.1 Reference Standards:

.1 National Fire Prevention Association (NFPA)

.1 NFPA 13-2019, Standard for the Installation of Sprinkler Systems.

.2 NFPA 24-2019, Standard for the Installation of Private Fire Service Mains and Their Appurtenances.

.3 NFPA 25-2020, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems.

.2 Underwriter's Laboratories of Canada (ULC)

.1 CAN4 S543-M984, Standard for Internal Lug Quick Connect Couplings for Fire Hose.

.3 FM Global, Property Loss Prevention Data Sheets 2-0 and Occupancy Specific Data Sheets, including all applicable data sheets referenced therein.

.2 Codes and By-Laws

.1 2020 Manitoba Building Code

.2 Additional codes and bylaws applicable at the location of the work as required by the AHJ.

1.3 ADMINISTRATIVE REQUIREMENTS

.1 Coordination:

.1 General: Division 21 – Fire Suppression.

.2 Sequencing:

.1 Install the Work to facilitate connection of other fire protection/suppression/alarm or safety systems tying into or combined with sprinkler system(s).

1.4 ACTION SUBMITTALS

.1 Provide submittals in accordance with Section 01 33 00 – Submittal Procedures.

.2 Product Data:

.1 Provide manufacturer's printed product literature and data sheets, and include product characteristics, performance criteria, physical size, finish and limitations.

.3 Shop Drawings:

.1 Materials to show:

.1 Finishes,

.2 Method of anchorage,

.3 Number of anchors,

.4 Supports, and

.5 Accessories.

.4 Samples:

.1 Submit the following samples:

.1 Fire department connection placards. Contractor will be responsible for shipping and pickup / return shipping of these items.

1.5 QUALITY ASSURANCE

.1 Qualifications:

.1 Installers: Journey person(s) specializing in wet pipe sprinkler system assembly with provincial certification applicable at the location of the Work.

.2 Products: Supply product groups (such as grooved fittings and related products) from a single manufacturer.

1.6 MAINTENANCE MATERIAL SUBMITTALS

.1 Extra Stock Materials:

.1 Provide one repair kit for each type and size of backflow device installed.

.2 Provide spare seat for each Dry Pipe Valve installed.

.3 Provide all spare materials required by NFPA 13.

.2 Tools: provide specialty tools required for maintenance and service work on all components of the system.

Part 2 Products

2.1 GENERAL

.1 Include with each system all materials, accessories, and equipment inside and outside building to provide each system complete and ready for use.

.2 Locate sprinkler heads in consistent pattern. Layout heads to match position generally as illustrated on Contract Drawings.

.3 Devices and equipment for fire protection service: ULC approved for use in wet pipe sprinkler systems.

2.2 MATERIALS

.1 Dry Pipe Valve

.1 Acceptable Manufacturers: Reliable Sprinkler Company, Tyco Fire Products, Victaulic

.2 ULC listed.

.3 Cast or ductile iron, flanged or grooved end type.

.4 Components:

.1 Accelerator.

.2 Air maintenance device with low pressure alarm.

.3 Alarm pressure switch with supervisory capability.

.4 Pressure gauges.

.5 Drain valve.

.6 Test valve with associated piping.

.7 Shut off valve

.5 Provide valve complete with internal components that are replaceable without removing valve from installed position.

.2 Oil-Less Air Compressor:

.1 Identification: FAC-1-01

.1 Acceptable manufacturers: Air Power Products Ltd. (APPL), C-Aire Compressors, General Air Products.

.2 Receiver mounted automatic air compressor.

.3 ULC listed for use in fire protection systems.

.4 FM Global approved

.5 Capacity:

.1 System delivery: 3.8 CFM @ 10 psig

.2 Receiver: 3 US gallon

.6 Motor: 1-HP

.7 Piping: ferrous, NPS 3/4 screwed joints and fittings, to NFPA 13.

.8 Basis of design: C-Aire Compressors, S275H

.2 Air Dryer

.1 Acceptable manufacturers: Air Power Products Ltd. (APPL), C-Aire Compressors, General Air Products.

.2 Provide desiccant dryer with upstream water separator and coalescing filter, and downstream coalescing filter.

.3 Size for compressor air flow.

.4 Provide automatic drain for filters, separator, and dryer piped into common drain.

.5 Basis of design: C-Aire Compressors, Desiccant Dryer

.2 Identification: FAC-2-01

.1 Acceptable manufacturers: Air Power Products Ltd. (APPL), C-Aire Compressors, General Air Products.

.2 Wall or riser mounted automatic air compressor.
.3 ULC listed for use in fire protection systems.
.4 FM Global approved
.5 Capacity:
.1 System delivery: 3.8 CFM @ 10 psig
.6 Motor: 1-HP
.7 Piping: ferrous, NPS 3/4 screwed joints and fittings, to NFPA 13.
.8 Basis of design: C-Aire S275

.2 Air Dryer
.1 Acceptable manufacturers: Air Power Products Ltd. (APPL), C-Aire Compressors, General Air Products.
.2 Provide desiccant dryer with upstream water separator and coalescing filter, and downstream coalescing filter.
.3 Size for compressor air flow.
.4 Provide automatic drain for filters, separator, and dryer piped into common drain.
.5 Basis of design: C-Aire Compressors, Desiccant Dryer

.3 Identification: FAC-4-01
.1 Acceptable manufacturers: Air Power Products Ltd. (APPL), C-Aire Compressors, General Air Products.
.2 Receiver mounted automatic air compressor.
.3 ULC listed for use in fire protection systems.
.4 FM Global approved
.5 Capacity:
.1 System delivery: 3.8 CFM @ 10 psig
.2 Receiver: 3 US gallon
.6 Motor: 1-HP maximum
.7 Piping: ferrous, NPS 3/4 screwed joints and fittings, to NFPA 13.
.8 Basis of design: C-Aire S275H

.2 Air Dryer
.1 Acceptable manufacturers: Air Power Products Ltd. (APPL), C-Aire Compressors, General Air Products.
.2 Provide desiccant twin town regenerative dryer with upstream water separator and coalescing filter, and downstream coalescing filter.
.3 Size for compressor air flow.
.4 Provide automatic drain for filters, separator, and dryer piped into common drain.
.5 Basis of design: C-Aire FR M-400

.3 Inspector's Test Connection

.1 Locate inspector's test connection as required by NFPA 13, provide test connections approximately 1.8 m above floor for each sprinkler system equipped with alarm device.

.2 Provide test connection piping to location where discharge will be readily visible and where water may be discharged without property damage or injury to public including icing of walking surfaces.

.3 Provide discharge orifices of same size as corresponding sprinkler orifice and meeting NFPA 13 requirements for dry pipe systems.

.4 Compliance: comply with manufacturer's written recommendations and specifications, including product technical bulletins and handling, storage and installation instructions, and datasheets.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheet.

3.2 INSTALLATION

.1 Install, inspect and test to acceptance in accordance with NFPA 13, NFPA 25, and AHJ.

.2 Pressure gauges:

.1 Location:

.1 On water side and airside of dry pipe valve.

.2 At air receiver.

.3 In each independent pipe from air supply to dry pipe valve.

.4 At exhausters and accelerators.

.2 Install to permit removal.

.3 Locate so as not subjected to freezing.

.3 Valve identification:

.1 Identify drain valve, by-pass valves and main shut-off valve and all auxiliary valves.

.4 Pipe Slope:

.1 Slope all piping in accordance with NFPA 13.

3.3 FIELD QUALITY CONTROL

.1 Test and Observation:

.1 Perform test to determine compliance with specified requirements in presence of Consultant to satisfaction of AHJ.

.2 Preliminary Tests:

.1 Hydrostatically test each system at 200 psig for a 2 hour period with no leakage or reduction in pressure.

.2 Flush piping with potable water in accordance with NFPA 13.

.3 Piping above suspended ceilings: tested, inspected, and approved before installation of ceilings.

.4 Test alarms and other devices.

.5 Test water flow alarms by flowing water through inspector's test connection. When tests have been completed and corrections made, submit signed and dated certificate in accordance with NFPA 13.

.3 Develop detailed instructions for Operations and Maintenance Manual for routine testing of systems.

.4 All dry pipe mains shall have slope confirmed using laser level. The slope shall be documented on the as-built drawings and signed off by the installing contractor as part of the system certification.

.2 Manufacturer's Services:

.1 Obtain written report from manufacturer verifying compliance of Work, in handling, installing, applying, protecting and cleaning of product and submit Manufacturer's Field Reports as described in PART 1 - ACTION AND INFORMATIONAL SUBMITTALS.

.2 Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.

.3 Schedule site visits, to review Work, as directed in PART 1 - QUALITY ASSURANCE.

3.4 CLEANING

.1 Clean in accordance with Section 01 74 11 – Cleaning.

.1 Remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION

Transmittal

Isted Technical Sales
1 - 920 Lorimer Blvd
Winnipeg MB R3P 1G1
Phone: (204) 779-5747
From: Danny Pacheco

Project **Provincial Fire & Life Safety, Roblin, Russell & Rossburn**
Quote# ITS-W25-39366
Location Winnipeg MB
Contact:

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- ☒ Drawings
- ☐ Prints
- ☐ Plans
- ☐ Specifications
- ☐ Information
- ☒ Submittals

Other:

THESE ARE TRANSMITTED FOR:

- ☒ Prior Approval
- ☐ Approval
- ☐ Approval as Submitted
- ☐ Approval as Noted
- ☐ Resubmittal for Approval
- ☐ Corrections
- ☐ Your Use
- ☐ Review and Comment
- ☐ Record

Bids due on:
Other:

Qty	Type	MFG	Part	Approved:
1		Signify Canada Ltd. 1SBP2440L8CSP-4-UN3-DIM	1SBP2440L8CSP-4-UN3-DIM	YES