GENERAL NOTES
1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR DISTURBANCE AND DESTRUCTION CONTROL TO AHV-1 PEAKED PLANET PROJECT (Mesa Mtn) 2011-16.
2. CLEAR AND LEVEL TERRAIN FOR APPLICATION OF TRANSIENT WATER AND SEASONAL MANAGEMENT BY THE CONTRACTOR. VERIFY EXISTING CONDITIONS AND REQUIRED ELEVATIONS AT THE SUBJECT SITE. VERIFY THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL FIELD CONFIRM INSPECTION, TESTING, AND CERTIFICATION REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 24 REQUIREMENTS FOR EXTERIOR FIRE SUPPRESSION SYSTEM PIPELINES AND INSTALLATION.
3. CONDUCT STORMWATER BEST PRACTICE TESTING AS PER THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY REQUIREMENTS.
4. EXISTING PROPERTY CORNERS AND SURVEY MARKINGS MUST BE PROTECTED DURING CONSTRUCTION AND RESTORED OR REPLACED WHERE NECESSARY IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN CONJUNCTION WITH THE MEANS OF SAFETY CONTROL TO MEET ALL REQUIREMENTS OF REQUIREMENTS OF GRANT COUNTY GENERAL.
5. pH LEVELS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE NEED TO PREVENT SEDIMENT DISCHARGE AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR CONSTRUCTION REQUIREMENTS.
6. THE CONTRACTOR SHALL HAVE THE APPROPRIATE LICENSES TO PERFORM THE SPECIFIED WORK ON THE SITE BACKGROUND IN CONFORMANCE WITH REQUIREMENTS OF AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL MAINTAIN A MINIMUM TEN (10) FEET OF HORIZONTAL SEPARATION BETWEEN EXCAVATION AND VEHICLE. PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE SLEEVE PIPE TO INHIBIT PIPING AT DEPTHS IN COMPLIANCE WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND AT OUTSIDE EDGE OF UNDERGROUND STRUCTURES. USE DETECTABLE CROSSING, MEASURED PERPENDICULAR TO THE CROSSED LINE. EACH END OF THE SLEEVE PIPE SHALL BE ONE (1) SIZE LARGER THAN THE CONSTRUCTION PIPE. THE SLEEVE PIPE SHALL BE SLEEVED. THE SLEEVE PIPE SHALL BE ONE (1) SIZE LARGER THAN THE CONSTRUCTION PIPE. THE SLEEVE PIPE SHALL BE SLEEVED.
7. THE CONTRACTOR SHALL FIELD CONFIRM INSPECTION, TESTING, AND CERTIFICATION REQUIREMENTS. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY REQUIREMENTS.
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NOTES

1. REFER TO SHEET C1.0 FOR GENERAL NOTES.

2. REFER TO SHEET C1.0, UTILITY & DRAINAGE NOTE 11 FOR ADDITIONAL INFORMATION REGARDING UTILITY SEPARATION AND SLEEVE REQUIREMENTS.

3. WATER PIPE SHALL BE RESTRAINED WITH MECHANICAL RESTRAINED JOINTS COMPLYING WITH CITY OF MOSES LAKE REQUIREMENTS AND NFPA 24.

4. FIELD VERIFY EXACT LOCATION OF EXISTING WATER SERVICE.

5. WATER PIPE TRENCHING, BEDDING, AND BACKFILL SHALL COMPLY WITH CITY OF MOSES LAKE STANDARD PLAN B-3.

6. PROVIDE STEEL PIPE ASTM A53 NPS 4 (4.5" OUTSIDE DIAMETER, SCH. 80) CONCRETE FILLED BOLLARD.

7. REFER TO FIRE PROTECTION PLANS FOR CONTINUATION OF FIRE SERVICE, ADDITIONAL INFORMATION REGARDING FIRE SUPPRESSION IMPROVEMENTS, AND ALL REQUIREMENTS COMPLY WITH NFPA 24.

8. SAWCUT EXISTING PAVEMENT AS NECESSARY TO INSTALL NEW UTILITIES. REPLACE WITH SIMILAR GRAVEL OR ASPHALT PAVEMENT SECTION.

9. FIRE WATER MAIN PIPE SHALL BE C905 PVC UNLESS OTHERWISE SHOWN. FIRE WATER SERVICE SHALL BE INSTALLED WITH DETECTABLE MARKING TAPE. MAINTAIN AT LEAST 4 FEET OF COVER OVER FIRE WATER LINE.

10. CONCRETE BOLLARDS SHALL COMPLY WITH DETAIL 1, THIS SHEET.

11. PLAN BACKGROUNDS INFORMATION DERIVED FROM EXISTING PLANS PROVIDED BY THE OWNER. NO SURVEY WAS PERFORMED FOR THIS PROJECT. LOCATIONS OF EXISTING SITE FEATURES ARE APPROXIMATE. FIELD LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.

12. REMOVE AND REPLACE CONCRETE CURB IN COORDINATION WITH WATER LINE INSTALLATION. CONCRETE CURB SHALL COMPLY WITH CITY OF MOSES LAKE STANDARD PLAN A-4.
1. ALL DIMENSIONS ARE TO FACE OF (E) WALL, CENTER OF (E) COLUMN OR CENTER OF WALL, UNLESS NOTED OTHERWISE.

2. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING WORK.
SECTION 024119 - SELECTIVE DEMOLITION

SELECTIVE DEMOLITION, GENERAL

General:

Demolish and remove existing construction only to the extent required by new construction and as indicated. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.

Neatly cut openings and holes square, plumb, and true to dimensions required. Use cutting methods least likely to damage construction to avoid marring existing finished surfaces. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe runs, verify location and contents of hidden spaces before starting flame-cutting operations.

Maintain portable fire-suppression devices during flame-cutting operations. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing. Dispose of demolished items and materials promptly, in accordance with authorities having jurisdiction.

END OF SECTION 024119

SECTION 033000 - CAST-IN-PLACE CONCRETE

CONCRETE MIXTURES

Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.

Admixtures: Use admixtures according to manufacturer's written instructions. Use water-reducing high-range water-reducing or plasticizing admixture in concrete, as required, for placement and workability, and in accordance with manufacturer's instructions.

Proportion normal-weight concrete mixture as follows:

- Minimum Compressive Strength: 4,000 psi minimum at 28 days; air 6%; water-cementitious materials ratio 0.45; slump, 1".

END OF SECTION 033000

SECTION 072100 - BUILDING INSULATION

GLASS-FIBER BLANKET, UNFACED

Glass-Fiber Blanket, Unfaced ASTM C 665, Type I; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.

END OF SECTION 072100

SECTION 081113 - INTERIOR INSULATED HOLLOW METAL DOORS

Doors 1 3/4" thick; Insulated core (U-factor of 0.37 or less); primed, hollow-metal doors. Provide ANSI/SDI 100 - Level 2, Model 1, heavy-duty doors, minimum 0.042 inch thick cold-rolled steel faces.

END OF SECTION 081113

ARCHITECTURAL PRODUCT INFORMATION

SCALE: 1/8" = 1'-0"
## Electrical Legends

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## Electrical Abbreviations

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**Project No:** 19-01-009A  
**Drawn by:**  
**Date:** 05-31-19  
**Location:** 3953 Airway Dr NE, Grant County Fairgrounds, Ardell Pavilion Upgrades, Moses Lake, WA 98837  
**Bid Drawings:**  
**Copyright Bernardo Wills Architects, PC 2013**  
**Electrical Legends & Abbreviations**
ELECTRICAL SPECIFICATIONS

1. Scope:
A. This specification shall govern the work to be performed by the Contractor in accordance with the plans and specifications of the Project.
B. The Electrical Specification shall be considered an integral part of the plans and specifications for the Project.
C. The Contractor shall be responsible for the installation of all electrical systems and equipment as specified in this specification.

2. General Conditions:
A. All electrical work shall be performed in accordance with the National Electrical Code (NEC) and other applicable codes and standards.
B. The Contractor shall provide all materials, labor, and equipment necessary to complete the electrical work.
C. The Contractor shall ensure that all electrical work is installed in a safe and workmanlike manner.

3. Electrical Equipment:
A. All electrical equipment shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical equipment shall be UL-listed and shall be appropriately marked.
C. All electrical equipment shall be installed in accordance with the NEC and other applicable codes.

4. Electrical Systems:
A. All electrical systems shall be designed and installed in accordance with the NEC and other applicable codes.
B. All electrical systems shall be tested and approved by the appropriate authorities.
C. All electrical systems shall be installed in a manner that ensures safety and compliance with applicable codes.

5. Electrical Wires and Cables:
A. All electrical wires and cables shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical wires and cables shall be UL-listed and shall be appropriately marked.
C. All electrical wires and cables shall be installed in accordance with the NEC and other applicable codes.

6. Electrical Panel:
A. All electrical panels shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical panels shall be UL-listed and shall be appropriately marked.
C. All electrical panels shall be installed in accordance with the NEC and other applicable codes.

7. Electrical Lighting:
A. All electrical lighting shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical lighting shall be UL-listed and shall be appropriately marked.
C. All electrical lighting shall be installed in accordance with the NEC and other applicable codes.

8. Electrical Controls:
A. All electrical controls shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical controls shall be UL-listed and shall be appropriately marked.
C. All electrical controls shall be installed in accordance with the NEC and other applicable codes.

9. Electrical Motors:
A. All electrical motors shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical motors shall be UL-listed and shall be appropriately marked.
C. All electrical motors shall be installed in accordance with the NEC and other applicable codes.

10. Electrical Switches:
A. All electrical switches shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical switches shall be UL-listed and shall be appropriately marked.
C. All electrical switches shall be installed in accordance with the NEC and other applicable codes.

11. Electrical Cable Tray:
A. All electrical cable tray shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical cable tray shall be UL-listed and shall be appropriately marked.
C. All electrical cable tray shall be installed in accordance with the NEC and other applicable codes.

12. Electrical Conduit:
A. All electrical conduit shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical conduit shall be UL-listed and shall be appropriately marked.
C. All electrical conduit shall be installed in accordance with the NEC and other applicable codes.

13. Electrical Disconnects:
A. All electrical disconnects shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical disconnects shall be UL-listed and shall be appropriately marked.
C. All electrical disconnects shall be installed in accordance with the NEC and other applicable codes.

14. Electrical Panelboards:
A. All electrical panelboards shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical panelboards shall be UL-listed and shall be appropriately marked.
C. All electrical panelboards shall be installed in accordance with the NEC and other applicable codes.

15. Electrical Transformers:
A. All electrical transformers shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical transformers shall be UL-listed and shall be appropriately marked.
C. All electrical transformers shall be installed in accordance with the NEC and other applicable codes.

16. Electrical Switchgear:
A. All electrical switchgear shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical switchgear shall be UL-listed and shall be appropriately marked.
C. All electrical switchgear shall be installed in accordance with the NEC and other applicable codes.

17. Electrical Panel Box:
A. All electrical panel boxes shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical panel boxes shall be UL-listed and shall be appropriately marked.
C. All electrical panel boxes shall be installed in accordance with the NEC and other applicable codes.

18. Electrical Switchboards:
A. All electrical switchboards shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical switchboards shall be UL-listed and shall be appropriately marked.
C. All electrical switchboards shall be installed in accordance with the NEC and other applicable codes.

19. Electrical Circuits:
A. All electrical circuits shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical circuits shall be UL-listed and shall be appropriately marked.
C. All electrical circuits shall be installed in accordance with the NEC and other applicable codes.

20. Electrical Lighting Fixtures:
A. All electrical lighting fixtures shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical lighting fixtures shall be UL-listed and shall be appropriately marked.
C. All electrical lighting fixtures shall be installed in accordance with the NEC and other applicable codes.

21. Electrical Lighting Fixtures:
A. All electrical lighting fixtures shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical lighting fixtures shall be UL-listed and shall be appropriately marked.
C. All electrical lighting fixtures shall be installed in accordance with the NEC and other applicable codes.

22. Electrical Lighting Fixtures:
A. All electrical lighting fixtures shall be of the latest design and shall meet the requirements of the NEC.
B. All electrical lighting fixtures shall be UL-listed and shall be appropriately marked.
C. All electrical lighting fixtures shall be installed in accordance with the NEC and other applicable codes.
GENERAL

SCOPE

A. Applicable provisions of Section 8 shall govern work under this Section.
B. This work required by the Sections of the specification shall include all materials, equipment, labor and services necessary to erect and install a complete system compatible with the requirements of the architectural plans, specifications, and the applicable codes and standards. Any contractor operating under this contract shall accept the responsibility for this work and shall ensure the system is completed in accordance with the requirements of this Section and the referenced documents.
C. The contractor shall coordinate with the Architect and the Engineer to determine the final location of all fire alarm system components and shall submit a site plan to the Architect for approval before proceeding with the installation of the system. The site plan shall include the location of all fire alarm system components and shall be approved by the Architect. The site plan shall be submitted in accordance with the requirements of Section 7 of the specifications.
D. The system shown in the architectural drawings for the fire alarm system shall be fabricated and installed in accordance with all applicable codes, standards, and requirements. The Contractor shall ensure that all materials and equipment used in the installation of the system are compatible with the requirements of the architectural plans, specifications, and the applicable codes and standards. The Contractor shall coordinate with the Architect and the Engineer to determine the final location of all fire alarm system components and shall submit a site plan to the Architect for approval before proceeding with the installation of the system. The site plan shall include the location of all fire alarm system components and shall be approved by the Architect. The site plan shall be submitted in accordance with the requirements of Section 7 of the specifications.

REQUIREMENTS

A. Manufacturers' systems to install, operate, and maintain fire alarm systems and equipment and components that fall into materials or standards as specified by the referenced documents shall be designed, fabricated, and installed in accordance with the requirements of the architectural plans, specifications, and the applicable codes and standards. The Contractor shall coordinate with the Architect and the Engineer to determine the final location of all fire alarm system components and shall submit a site plan to the Architect for approval before proceeding with the installation of the system. The site plan shall include the location of all fire alarm system components and shall be approved by the Architect. The site plan shall be submitted in accordance with the requirements of Section 7 of the specifications.

1. shallering Edition. All equipment and components covered in the Maintenance Service Agreement.
2. shallering Edition. 1 year from the date of Substantial Completion.

2. shallering Edition. 1 year from the date of Substantial Completion.

REGULATORY REQUIREMENTS

A. All equipment shall be UL listed and shall be installed in accordance with the referenced documents.

1. shallering Edition. All equipment and components covered in the Maintenance Service Agreement.
2. shallering Edition. 1 year from the date of Substantial Completion.

B. shallering Edition. The Contractor shall ensure that all materials and equipment used in the installation of the system are compatible with the requirements of the architectural plans, specifications, and the applicable codes and standards. The Contractor shall coordinate with the Architect and the Engineer to determine the final location of all fire alarm system components and shall submit a site plan to the Architect for approval before proceeding with the installation of the system. The site plan shall include the location of all fire alarm system components and shall be approved by the Architect. The site plan shall be submitted in accordance with the requirements of Section 7 of the specifications.

C. shallering Edition. 1 year from the date of Substantial Completion.

D. Compliance with all applicable codes, standards, and requirements is required. The Contractor shall coordinate with the Architect and the Engineer to determine the final location of all fire alarm system components and shall submit a site plan to the Architect for approval before proceeding with the installation of the system. The site plan shall include the location of all fire alarm system components and shall be approved by the Architect. The site plan shall be submitted in accordance with the requirements of Section 7 of the specifications.

E. shallering Edition. 1 year from the date of Substantial Completion.

F. shallering Edition. 1 year from the date of Substantial Completion.

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5. shallering Edition. 1 year from the date of Substantial Completion.

6. shallering Edition. 1 year from the date of Substantial Completion.

7. shallering Edition. 1 year from the date of Substantial Completion.
include a remote power supply and battery charger as needed to meet the requirements of 2.6.B. Ethernet Packets. For use on systems with greater than 100 detectors and in conjunction with the IFP-1000 FACP. The IP Communicator shall operate from 120 VAC, 60Hz power with a maintenance free battery backup capable of providing the required standby service. The IP Communicator shall be Honeywell model IPGSM-4G. The flexible, programmable I/O circuits can be configured for: - Alarm Relays (Elevator systems, HVAC systems, Sprinkler Systems, etc): See Addressable Output Module. - Electromagnetic Door holder units are equipped for wall or floor mounting as indicated on the design documents and are complete with matching red cell annunciator LEDs, over door annunciators and light bars as described herein. - Carbon Monoxide Detectors shall be Silent Knight IPD-FIRE-CO. - Single Action Pull Stations shall be Silent Knight IDP-Pull_SA with a single acting mechanism of the pull-lever type.

3. System components must be located in an area of the building where they will not obstruct traffic or interfere with normal building operation.

4. System components shall be located in a manner to prevent freezing, moisture or other environmental damage.

5. System components shall be located in an area that grants access to all system components for testing and maintenance.

6. System components shall be located to minimize the chance of a remote user interfering with a fire alarm system.

7. System components shall be located to minimize the chance of a remote user interfering with a fire alarm system.

8. System components shall be located to minimize the chance of a remote user interfering with a fire alarm system.

9. System components shall be located to minimize the chance of a remote user interfering with a fire alarm system.

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18. System components shall be located to minimize the chance of a remote user interfering with a fire alarm system.

19. System components shall be located to minimize the chance of a remote user interfering with a fire alarm system.

20. System components shall be located to minimize the chance of a remote user interfering with a fire alarm system.
FIELD QUALITY CONTROL AND TESTING

A. The system shall be tested and fully tested under the supervision of the factory manufacturer's representative. The system shall be demonstrated to perform all the functions as specified.

B. Each individual system operation on a circuit by circuit basis shall be tested for its complete operation. The procedure for testing the entire fire detection system shall be carried out with the consent of the code enforcement official, the Engineer and the manufacturer.

C. Visual Inspection: Conduct the visual inspection prior to testing:

1. Inspect the system to ensure that the proper device is operational according to the requirements of NFPA 72.

2. Conduct a Visual Inspection Frequency per NFPA 72,

3. The Factory Authorized Service Representative shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" section of the "Completion Documents, Inspection, Testing and Maintenance" chapter in NFPA 72.


5. Perform testing of each of the following items:

   a. Verification of operation of each device including all pull stations, smoke detectors, heat detectors, fire, and temper switches.

   b. Interoperability test levels of all areas.

   c. Test all automatic sprinkler system by ensuring the sprinkler has the capability of handling the maximum piping rate of the automatic sprinkler plus 20%.

   d. Alphanumeric display panels at the control panel and each annunciator.

   e. Ghose lights.

   f. Spot checks of impulse indication.

   g. Factory authorized service representative shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" section of the "Completion Documents, Inspection, Testing and Maintenance" chapter in NFPA 72.

   h. Reverification Testing: Perform reverification tests to verify the proper operation of added or replaced devices and appliances.

   i. The system shall be reprogrammed as directed by the AHJ after completion of testing, and a representative of the manufacturer shall meet with the AHJ for a final demonstration of the system, to obtain field approval.

   j. Prepare test and inspection reports.

DEMONSTRATION

A. Each of the intended operations of the installed Fire Alarm / Life Safety System shall be demonstrated to the Owner's Representative and the Local Authority Having Jurisdiction (AHJ) for a final demonstration of the system, and to obtain field approval.


c. The Factory Trained and Authorized Engineered Systems Distributor who designed and installed this system shall provide a separate maintenance contract for a period of 2 Years from the date of system commissioning. The maintenance contract shall include the following:

   1. Verification of operation of each device including all pull stations, smoke detectors, heat detectors, fire, and temper switches.

   2. Interoperability test levels of all areas.

   3. Test all automatic sprinkler system by ensuring the sprinkler has the capability of handling the maximum piping rate of the automatic sprinkler plus 20%.

   4. Alphanumeric display panels at the control panel and each annunciator.

   5. Ghose lights.


   7. Factory authorized service representative shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" section of the "Completion Documents, Inspection, Testing and Maintenance" chapter in NFPA 72.

   8. Reverification Testing: Perform reverification tests to verify the proper operation of added or replaced devices and appliances.

   9. The system shall be reprogrammed as directed by the AHJ after completion of testing, and a representative of the manufacturer shall meet with the AHJ for a final demonstration of the system, to obtain field approval.

   10. Prepare test and inspection reports.