South King Fire and Rescue

Station 60 Facility Improvements

ADDENDUM #1

April 10, 2019

TO ALL BIDDERS:

The Bid Documents issued **March 20, 2019** for the project noted above are amended by this Addendum #1.

Receipt of this addendum shall be acknowledged by inserting its number in the space provided on the bid form.

PROJECT MANUAL AND DRAWING ITEMS

ITEM 1. Section 00110 TABLE OF CONTENTS
   a. ADD Section 05500 Metal Fabrications, 8 pages
ITEM 2. Section 00110 TABLE OF CONTENTS:
   a. DELETE Section 072600 Vapor Barriers
ITEM 3. Section 00110 TABLE OF CONTENTS:
   a. DELETE Section 221400 Facility Storm Drainage
ITEM 4. Section 00110 TABLE OF CONTENTS:
   a. DELETE Section 238200, Terminal Heating Units
ITEM 5. Section 233400 HVAC FANS
   a. REVISE 2.2 Utility Set A: Manufactures: Greenheck, Cook or approved Equal.
ITEM 6. Section 233400 HVAC FANS
   a. DELETE 2.2 E 1. UL -705 Rated
ITEM 7. FA2.00 ADD drawing, Fire Alarm Legend and Notes, Bldg. 2
ITEM 8. FA2.01 ADD drawing, Fire Alarm Riser Diagram and Notes, Building 2
ITEM 9. FA2.02 ADD drawing, Building 2 – Fire Alarm Layout Plan

ATTACHMENTS

1) Electrical Addenda, 2 pages.
2) Fire Alarm Sheets FA2.00, FA2.01, FA2.02.
3) Revised Sheets E10.01, E21.22, E00.01.
4) Pre-bid Walkthrough Sign-In Sheet 1 page.
5) Pre-Bid Walkthrough Agenda, 2 pages.
6) Architectural Substitution Requests, 2 pages.
7) Mechanical Substitution Requests, 1 page.

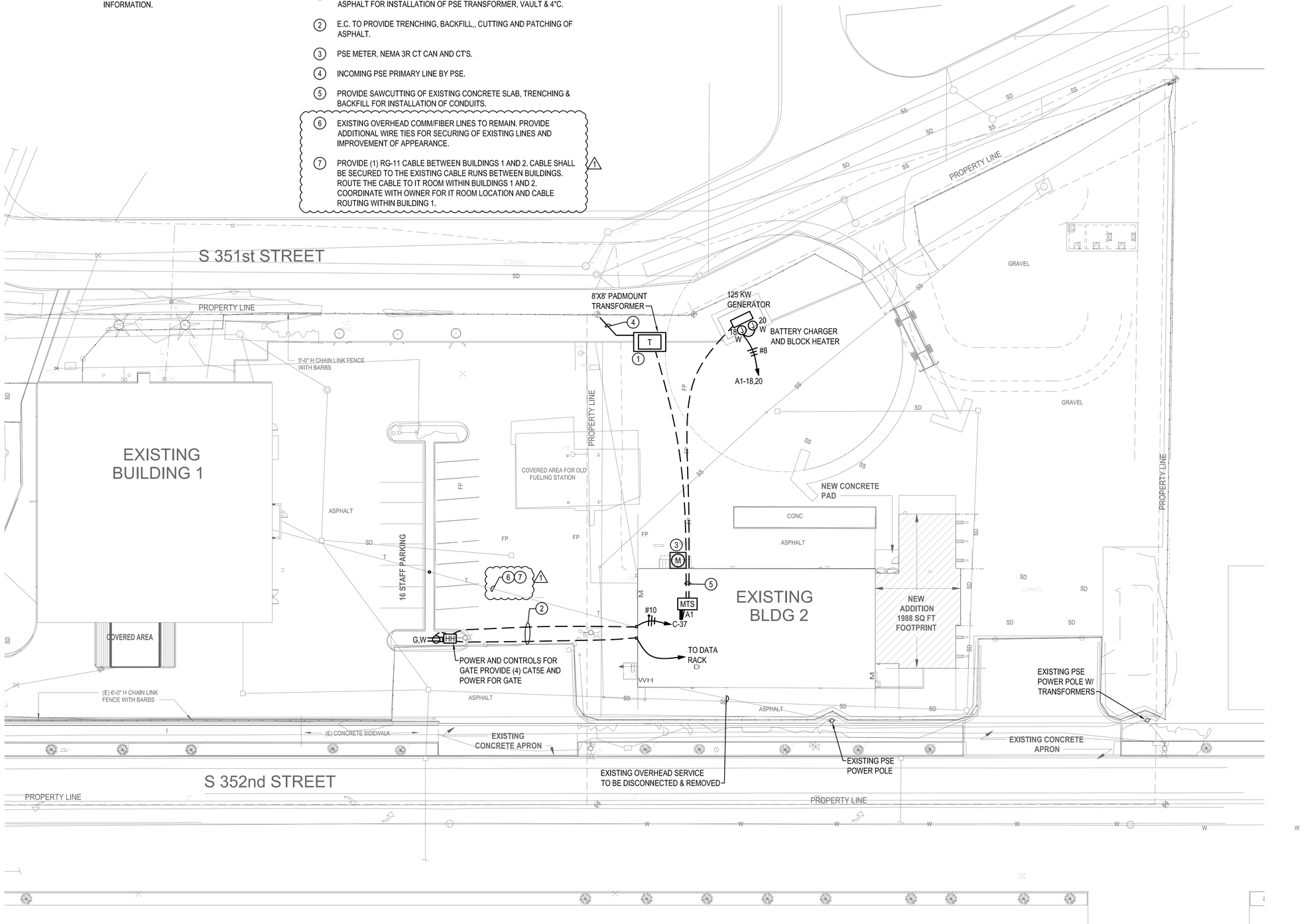
END OF ADDENDUM

GENERAL NOTES

1. SEE ONE-LINE DIAGRAM, SHEET E25.01, FOR MORE INFORMATION.

CONSTRUCTION NOTES

1. E.C. TO PROVIDE ALL TRENCHING, BACKFILL, CUTTING, PATCHING OF ASPHALT FOR INSTALLATION OF PSE TRANSFORMER, VAULT & 4"C.
2. E.C. TO PROVIDE TRENCHING, BACKFILL,, CUTTING AND PATCHING OF ASPHALT.
3. PSE METER, NEMA 3R CT CAN AND CT'S.
4. INCOMING PSE PRIMARY LINE BY PSE.
5. PROVIDE SAWCUTTING OF EXISTING CONCRETE SLAB, TRENCHING & BACKFILL FOR INSTALLATION OF CONDUITS.
6. EXISTING OVERHEAD COMM/FIBER LINES TO REMAIN. PROVIDE ADDITIONAL WIRE TIES FOR SECURING OF EXISTING LINES AND IMPROVEMENT OF APPEARANCE.
7. PROVIDE (1) RG-11 CABLE BETWEEN BUILDINGS 1 AND 2. CABLE SHALL BE SECURED TO THE EXISTING CABLE RUNS BETWEEN BUILDINGS. ROUTE THE CABLE TO IT ROOM WITHIN BUILDINGS 1 AND 2. COORDINATE WITH OWNER FOR IT ROOM LOCATION AND CABLE ROUTING WITHIN BUILDING 1.



N

1 ELECTRICAL SITE PLAN
1" = 20'-0"

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SOUTH KING FIRE & RESCUE FACILITY IMPROVEMENTS

FIRE STATION 60
35100 PACIFIC HIGHWAY
SOUTH, FEDERALWAY,
WA 98003

PROJECT # 2015137

BID SET

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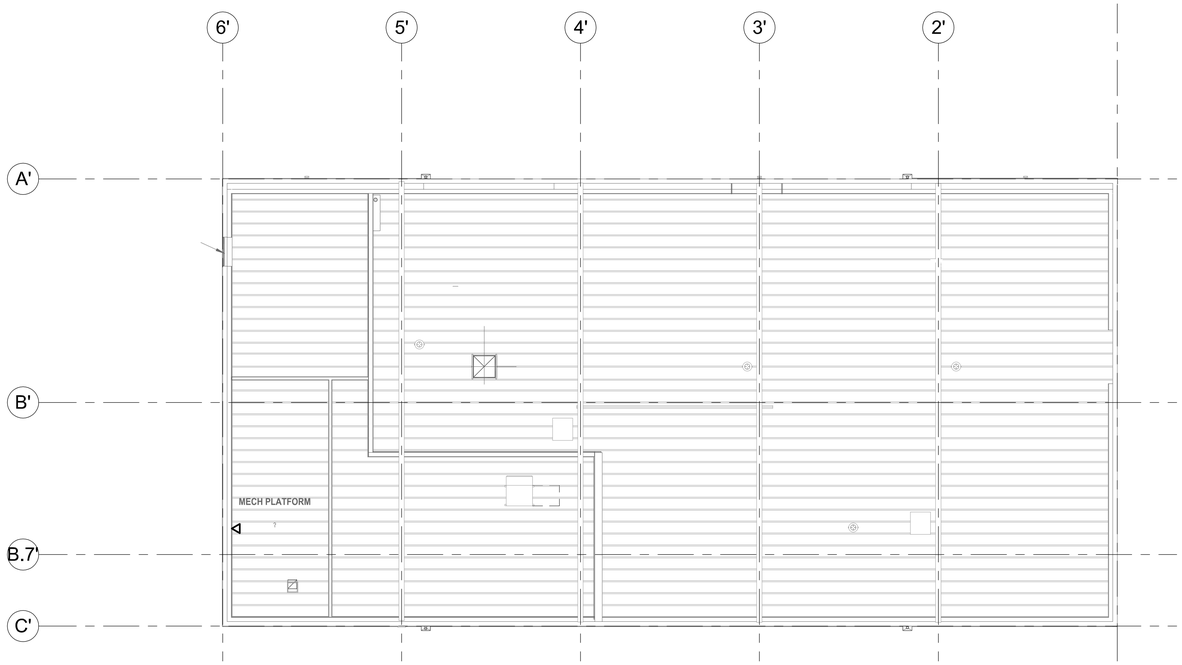
REVISION SCHEDULE

1	ADDENDUM 1	4/9/19

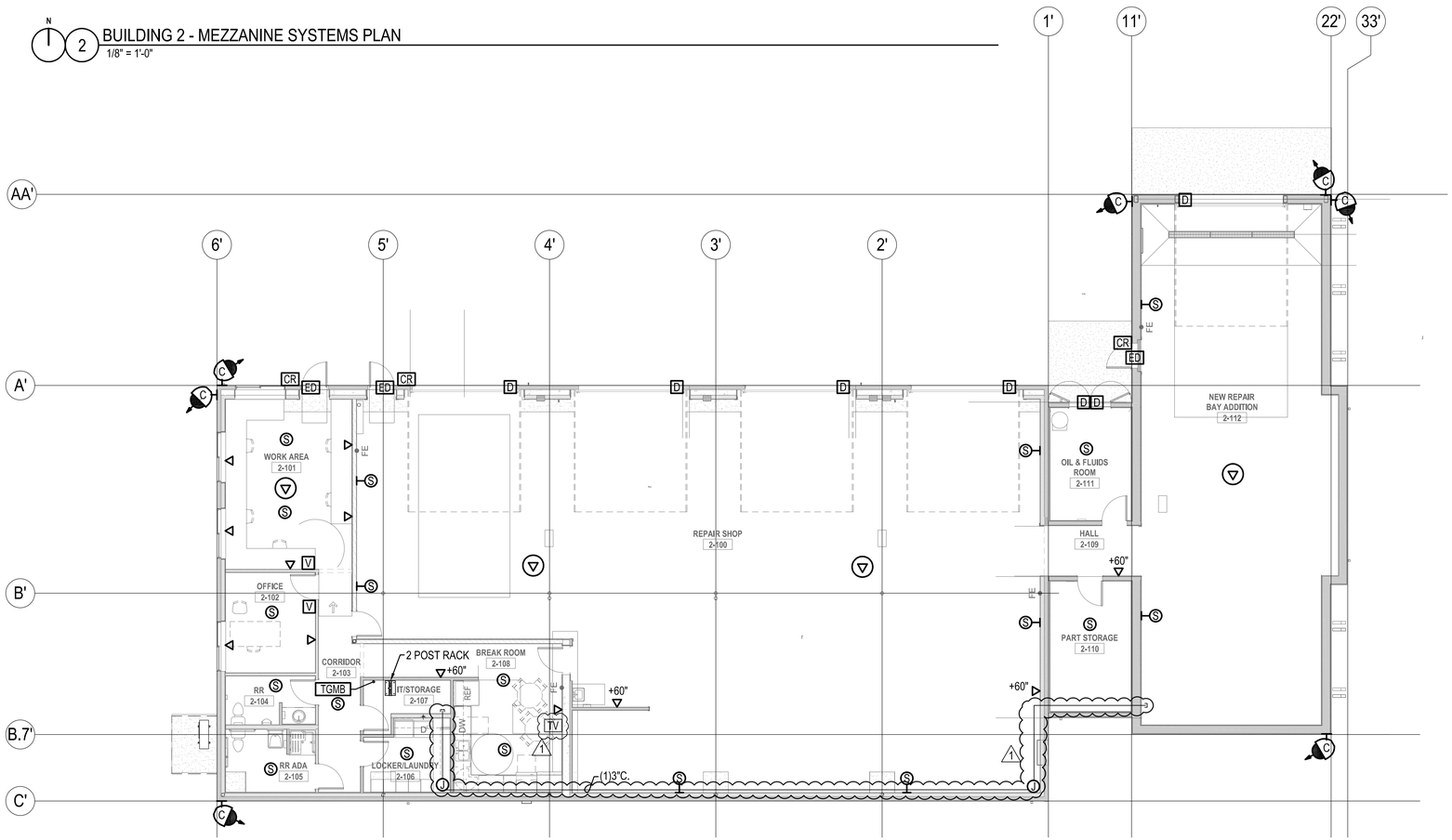
ELECTRICAL SITE PLAN

SHEET:

E10.01



N 2 BUILDING 2 - MEZZANINE SYSTEMS PLAN
1/8" = 1'-0"



N 1 BUILDING 2 - SYSTEMS PLAN
1/8" = 1'-0"

GENERAL NOTES

1. REVIEW ELECTRICAL LEGEND FOR DEVICE MOUNTING INFORMATION.

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BUILDING 2 - SYSTEMS PLAN

SHEET:

E21.22

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING
	RECESSED LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT LIGHT FIXTURE (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	WALL MOUNT LIGHT FIXTURE
	SURFACE OR RECESSED LIGHT FIXTURE
	SURFACE OR PENDANT MOUNT STRIP LIGHT (CIRCLE INDICATES RECESSED OR CONCEALED JUNCTION BOX)
	EGRESS FIXTURE WITH EMERGENCY BATTERY PACK. PROVIDE UNSWITCHED HOT LEG.
	EMERGENCY BATTERY PACK WITH TWIN HEAD FLOOD PROVIDE UNSWITCHED HOT LEG.
	COMBINATION EXIT/TWIN HEAD FLOOD (PROVIDE DIRECTION ARROWS AS INDICATED) PROVIDE UNSWITCHED HOT LEG.
	RECEPTACLES
	DUPLEX RECEPTACLE
S	SWITCH DUPLEX RECEPTACLE
G	DUPLEX RECEPTACLE (G INDICATES GROUND FAULT CIRCUIT INTERRUPTER)
	FOURPLEX RECEPTACLE
	SPECIAL PURPOSE OUTLET - 1Ø, VOLTAGE AND AMPERES AS INDICATED
	SPECIAL PURPOSE OUTLET - 3Ø, VOLTAGE AND AMPERES AS INDICATED
	DROP CORD REEL WITH DOUBLE DUPLEX BOX
	EQUIPMENT, WIRING AND RACEWAYS
	RACEWAY CONCEALED IN WALL OR CEILING
	RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB
	FLEXIBLE CONDUIT
	GROUNDING SYSTEM PER CODE
J	JUNCTION BOX - SIZE PER CODE
	MOTOR CONNECTION
M	MANUAL STARTER
MTS	MANUAL TRANSFER SWITCH
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	120/208 VOLT PANELBOARD (OR AT RATED VOLTAGE AS NOTED)
	ENCLOSED CIRCUIT BREAKER, AMPERES AS INDICATED
M	METER
HH	HANDHOLE - PROVIDE DIVIDING COMPARTMENT BETWEEN LOW VOLTAGE AND POWER AS REQUIRED PER CODE.

SYMBOL	DESCRIPTION
	SWITCHES
T	TIMER SWITCH
VS	COMBINATION SWITCH / VACANCY SENSOR
LV	LOW VOLTAGE SWITCH
P	SINGLE POLE SWITCH (P INDICATES PILOT LIGHT)
D	SINGLE POLE SWITCH (D INDICATES DIMMER)
a b	MULTI-GANGED SWITCH (LOWER CASE LETTERS INDICATES SWITCHING)
	PUSH-BUTTON CONTROLLER
PC	PHOTOCELL CONTROL
OS	OCCUPANCY SENSOR (LIGHTING CONTROL)
VS	CEILING MOUNTED VACANCY SENSOR (LIGHTING CONTROL)
	SYSTEMS
	PROVIDE (2) CATEGORY 6 DATA JACK WITH 2-PORT FACEPLATE AND CATEGORY 6 CABLES. HOMERUN CABLES TO THE IDF. TERMINATE CABLES ON PATCH PANELS, PROVIDE 10' OF COILED CABLING AT THE RACK LOCATION.
	CEILING MOUNTED DATA JACK FOR WIRELESS ACCESS POINT. MOUNT TO BOTTOM OF STRUCTURE OR CEILING SPACE.
	2 POST TELECOMMUNICATIONS RACK
TGMB	TELECOMMUNICATIONS MAIN GROUND BUSS BAR
CR	PROXIMITY CARD READER - WALL MOUNT TO SINGLE GANG BOX FLUSH TO WALL SURFACE (L INDICATES LONG RAND READER, M INDICATES MULLION MOUNT, ST INDICATES MOUNTED ON A STANCHION)
ED	ELECTRIC EXIT DEVICE
C	STANDARD HOUSING FIXED CAMERA (IN ENVIRONMENTALLY RATED HOUSING, VARIABLE FOCUS OR FIXED FOCUS LENS) - WALL MOUNT (C INDICATES CEILING MOUNT, I INDICATES INTERIOR CAMERA, P INDICATES POLE MOUNT, PM INDICATES PARAPET MOUNT, R INDICATES ROOF MOUNT). MOUNT AT +12' TO 15'- AFF. MOUNT ALL CAMERAS AT SAME HEIGHT.
D	MAGNETIC DOOR POSITION SWITCH. PROVIDE DOUBLE-PULL DOUBLE THROW SWITCH FOR CONNECTION TO ACCESS CONTROL AND OWNER PROVIDED INTRUSION SYSTEM.
S	CEILING MOUNTED INTERCOM/PAGING SPEAKER
S	WALL MOUNTED INTERCOM/PAGING SPEAKER - MOUNT AT +144" - AFF
V	WALL MOUNTED VOLUME CONTROL - MOUNT AT +48" - AFF
TV	CATV OUTLET OUTLET - PROVIDE (1) RG-6 CABLE WITH F-CONNECTOR. HOMERUN CABLE TO THE IDF AND COIL FOR CONNECTION BY CATV PROVIDER. WALL MOUNT AT +60" - AFF.
	MISCELLANEOUS
1	CONSTRUCTION NOTES
1	DEMOLITION NOTES
W	W INDICATES WEATHERPROOF FOR ALL DEVICES, PROVIDE LOCKING COVER ON RECEPTACLES.
	ALL DEVICES WITH LIGHT LINE WEIGHT INDICATES EXISTING TO BE RETAINED
	ALL DEVICES WITH DASH LINE INDICATES EXISTING TO BE REMOVED
A / E2 E3	DETAIL CALL OUT - A INDICATES DETAIL IDENTIFICATION, E2 INDICATES SHEET TAKEN FROM, E3 INDICATES SHEET DRAWN ON
AH1 / 1	MECHANICAL EQUIPMENT CONNECTION

ABBREVIATIONS

G	GROUND FAULT CIRCUIT INTERRUPTER	UC	UNDERCOUNTER
C	MOUNT ABOVE COUNTER	UG	UNDERGROUND
DW	DISHWASHER	C.	CONDUIT
EC	ELECTRICAL CONTRACTOR	CO	CONDUIT ONLY
MC	MECHANICAL CONTRACTOR	GR	GROUND
REQ'D	REQUIRED	CU	COPPER
MW	MICROWAVE	GC	GENERAL CONTRACTOR
REF	REFRIGERATOR	WS	WASHER
E	EXISTING	EGR	EQUIPMENT GROUND CONDUCTOR
		XFMR	TRANSFORMER

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ELECTRICAL LEGEND

SHEET:

E00.01

South King Fire and Rescue

Station 60

South King Fire and Rescue Facility Improvements

ELECTRICAL ADDENDUM #1

April 09, 2019

DRAWINGS

ELECTRICAL

ITEM 1. E00.01 – Electrical Legend
- **a.** REVISE door position switch description as shown on the revised sheet.
- **b.** ADD CATV outlet description as shown on the revised sheet.

ITEM 2. ED1.12 – Level 1 Power & Systems Demo Plan
- **a.** ADD the following to demolition note 1: "Turn the generator over to the Owner."

ITEM 3. E10.01 – Electrical Site Plan
- **a.** ADD construction notes 6 and 7 as shown on the revised sheet.

ITEM 4. E21.12 – Building 2 - Power Plan
- **a.** ADD J-box for access control panel in IT/STORAGE 2-107. Locate J-box at +84" aff on north wall at grid line 5. Connect to circuit C-39.

ITEM 5. E21.22 – Building 2 Systems Plan
- **a.** ADD (1) 3" conduit from IT/STORAGE 2-107 to NEW REPAIR BAY ADDITION 2-112 as shown on the revised sheet.
- **b.** ADD CATV outlet in BREAK ROOM 2-108 as shown on the revised sheet.

SPECIFICATIONS

ELECTRICAL

ITEM 1. DIVISION 28 50 05 – Radio Dispatch Alert and Paging
- **a.** ADD section 2.2.E.2 to read 'Audio amplifier shall be from TOA model 900 MK 2.'

SUBSTITUTION REQUESTS

SUBSTITUTION REQUEST REVIEW LOG

Approval applies to manufacturer only and does not relieve the Contractor/Supplier from the responsibility of meeting all applicable requirements of the Plans and Specifications.

The following representatives and manufacturers have further agreed upon the following:

1. The proposed substitution does not affect dimensions shown on drawings.
2. The undersigned will pay for changes to the building design, including engineering design, detailing and construction costs caused by the requested substitution.
3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements.
4. Maintenance and service parts will be locally available for the proposed substitution.
5. The proposed substitution will have no effect on applicable codes.
6. The manufacturer's guarantees or warranties of proposed product are equivalent to, or exceed, that of the specified product.

Specification Section	Product	Proposed Substitution	Comment
26 5000	Lighting – RL1	Portfolio, Lithonia	APPROVED
26 5000	Lighting – RL2	Pinnacle lighting, Mark Architectural lighting	APPROVED
26 5000	Lighting – SL1	Metalux, Columbia lighting	APPROVED
26 5000	Lighting – SL2	Metalux, Columbia lighting	APPROVED
26 5000	Lighting – WL1/WL1E	McGraw-Edison, Hubbell Lighting	APPROVED
26 5000	Lighting – EX1	Emergilite, Hubbell Lighting	APPROVED
26 5000	Lighting – EX2	Emergilite, Dual lite	APPROVED
26 0923	Network Digital Lighting Control	Intelligent Lighting Controls	Approval subject to owner's review

END OF ADDENDUM #1

FIRE ALARM SYSTEM LEGEND

SYMBOL	DESCRIPTION
FACP	FIRE ALARM SYSTEM CONTROL PANEL
FAPS	FIRE ALARM SYSTEM POWER SUPPLY FOR NOTIFICATION DEVICES
FARAP	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL
AES	AES WIRELESS TRANSCEIVER
BAT	BATTERY CABINET
GMAP	GRAPHIC MAP
P	MANUAL PULL STATION - WALL MOUNT OPERABLE PART BETWEEN 42" AND 48" ABOVE FINISH FLOOR
	SMOKE DETECTOR (CEILING MOUNTED)
	HEAT DETECTOR (CEILING MOUNTED)
	DUCT SMOKE DETECTOR
C/O	CARBON MONOXIDE SENSOR
FS	SPRINKLER SYSTEM FLOW SWITCH
PS	SPRINKLER SYSTEM PRESSURE SWITCH
TS	SPRINKLER SYSTEM TAMPER SWITCH
BFP	SPRINKLER SYSTEM BACKFLOW PREVENTER
PIV	SPRINKLER SYSTEM POST INDICATOR VALVE
M	FIRE ALARM SYSTEM MONITOR MODULE
R	FIRE ALARM SYSTEM RELAY MODULE
	COMBINATION HORN / STROBE - CEILING MOUNTED
	FIRE ALARM CLEAR (WHITE) STROBE ONLY - CEILING MOUNTED
	COMBINATION HORN / STROBE - WALL MOUNTED WITH THE ENTIRE STROBE LENS NOT LESS THAN 80" OR MORE THAN 96" ABOVE THE FINISHED FLOOR OR NOT MORE THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
	FIRE ALARM CLEAR (WHITE) STROBE ONLY - WALL MOUNTED WITH THE ENTIRE STROBE LENS NOT LESS THAN 80" OR MORE THAN 96" ABOVE THE FINISHED FLOOR OR NOT MORE THAN 6" BELOW THE CEILING, WHICHEVER IS LOWER
	SPRINKLER SYSTEM ALARM BELL (24 VOLTS D.C.)
RT / RI	REMOTE TEST STATION / REMOTE INDICATOR
	DOOR HOLDER
FSD	FIRE / SMOKE DAMPER
	TRANSMITTER ANTENNA

MISCELLANEOUS

SYMBOL	DESCRIPTION
1 / A	MECHANICAL EQUIPMENT CONNECTION - "1" INDICATES MECHANICAL EQUIPMENT TYPE AND "A" INDICATES THE MECHANICAL EQUIPMENT IDENTIFICATION.
1	CONSTRUCTION NOTES
1	RISER CONSTRUCTION NOTES
$	ALL NEW DEVICES INDICATED WITH A DARK CONTINUOUS LINE TYPE
$	ALL EXISTING DEVICES THAT ARE TO BE RETAINED ARE INDICATED WITH A LIGHT CONTINUOUS LINE TYPE
J	JUNCTION BOX
E	E INDICATES ELEVATOR RECALL CONTACT
F	F INDICATES FIXED TEMPERATURE TYPE
FA	FA INDICATES FIRE ALARM
LF	LF INDICATES LOW FREQUENCY HORN (520Hz)
RD	RD INDICATES RETURN DUCT
SD	SD INDICATES SUPPLY DUCT
S	S INDICATES SURFACE MOUNT BACK BOX
SB	SB INDICATES SOUNDER BASE
W	W INDICATES WEATHERPROOF DEVICE

FIRE ALARM SYSTEM EQUIPMENT REQUIREMENTS

1. THE FIRE ALARM SYSTEM SHALL BE FULLY FUNCTIONAL WITHOUT THE USE OF PRIMARY POWER. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A MINIMUM OF 24 HOURS OF STANDBY OPERATION FOLLOWED BY AN ADDITIONAL 5 MINUTES OF ALARM OPERATION.
2. ALL BATTERIES SHALL PROVIDE AT LEAST 25% SPARE CAPACITY.
3. THE FIRE ALARM SYSTEM CONTROL PANEL (FACP) MAY INCLUDE INTERNAL POWER SUPPLIES. THE FIRE ALARM SYSTEM POWER SUPPLIES (FAPS) ARE SHOWN FOR REFERENCE ONLY. PROVIDE ADDITIONAL QUANTITIES OF POWER SUPPLIES AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM. THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL CONTRACTOR FOR ALL POWER CONNECTIONS THE FIRE ALARM SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL COSTS ASSOCIATED WITH ALL NON-COORDINATED POWER CONNECTIONS.
4. PROVIDE 25% SPARE CAPACITY FOR NOTIFICATION POWER SUPPLIES.
5. PROVIDE MULTIPLE INITIATING DEVICE CIRCUITS AND SIGNALING LINE CIRCUITS SO THAT FAILURE OF ONE CIRCUIT DOES NOT CAUSE THE FACILITY TO LOSE OVER 50% OF ITS DETECTION CAPABILITY PER FLOOR.
6. PROVIDE A MINIMUM OF 2 ISOLATION MODULES PER CIRCUIT. EACH CIRCUIT SHALL HAVE A MAXIMUM OF 20 DEVICES PER ISOLATION MODULE.
7. PROVIDE BATTERY CALCULATIONS FOR ALL FIRE ALARM SYSTEMS.

FIRE ALARM AUDIBILITY REQUIREMENTS

1. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PERFORM AUDIBILITY TESTING IN EACH SPACE OF THE BUILDING PRIOR TO ACCEPTANCE TESTING. DOCUMENTATION OF DECIBEL (dB) VALUES RECORDED IN ALL SPACES SHALL BE PROVIDED TO THE ARCHITECT / ENGINEER PRIOR TO ACCEPTANCE TESTING.
   - A. DECIBEL READINGS SHALL BE TAKEN AT A POINT 10'-0" FROM THE APPLIANCE AT AN ELEVATION OF 5'-0" ABOVE FINISHED FLOOR.
   - B. THE SOUND LEVEL SHALL BE A MINIMUM OF 15 DECIBELS (dBs) ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
   - C. THE SOUND LEVEL SHALL BE A MAXIMUM OF 30 DECIBELS (dBs) ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
   - D. THE SOUND LEVEL SHALL BE A MINIMUM OF 5 DECIBELS (dBs) ABOVE THE MAXIMUM SOUND LEVEL HAVING A MINIMUM DURATION OF 60 SECONDS.
   - E. IN SPACES THAT DO NOT MEET THE MINIMUM AUDIBLE (dB) VALUES, THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE ADDITIONAL AUDIBLE NOTIFICATION APPLIANCES UNTIL THE MINIMUM DECIBEL (dB) VALUES ARE OBTAINED.

CABLING AND CONDUIT REQUIREMENTS

1. ALL INITIATING AND NOTIFICATION CIRCUITS SHALL BE "CLASS B" WIRING.
2. ALL "CLASS B" WIRING CIRCUITS SHALL BE PROVIDED WITH AN "END-OF-LINE" RESISTOR INSTALLED AT THE END OF EACH CIRCUIT.
3. THE USE OF T-TAPPING WILL BE ALLOWED ON S.L.C. (SIGNALING LINE CIRCUIT) CIRCUITS ONLY. T-TAPPING IS NOT ALLOWED ON ANY CIRCUIT REQUIRING AN END OF LINE RESISTOR.
4. ALL WIRE TERMINATIONS SHALL BE BY USE OF WIRE NUTS OR SCREW TYPE TERMINATION BLOCKS.
5. THE USE OF CRIMPED CONNECTORS, TWISTING OF WIRES, ETC. SHALL NOT BE ALLOWED IN J-BOXES, TERMINAL CABINETS, OR ENCLOSURES.
6. ALL WIRES OUTSIDE OF J-BOXES, TERMINAL CABINETS, OR ENCLOSURES SHALL BE FREE OF SPLICES.
7. CONDUITS SHALL BE CONCEALED IN CEILING SPACES, WALLS, AND OTHER AREAS WHEREVER POSSIBLE.
8. ALL CONDUIT SHALL BE INSTALLED IN A PARALLEL OR PERPENDICULAR FASHION THAT IS TIGHT TO STRUCTURE. THE CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OTHER TRADES.
9. FIRE ALARM CABLING INSTALLED ABOVE ACCESSIBLE CEILINGS SHALL BE ALLOWED TO BE INSTALLED AS OPEN CABLING. PROVIDE "D" RING HANGER FOR ALL OPEN CABLING AT A MAXIMUM SPACING OF 5'-0" ON CENTER.
10. CABLING THAT IS INSTALLED IN WALLS, CABLING THAT IS INSTALLED BELOW 8'-0" IN ELEVATION THAT IS SUBJECT TO DAMAGE, AND CABLING THAT IS INSTALLED ABOVE INACCESSIBLE CEILINGS SHALL BE INSTALLED IN CONDUIT.
11. CONDUITS PASSING THROUGH BUILDING EXPANSION JOINTS OR BUILDING SEISMIC JOINTS SHALL HAVE JUNCTION BOXES AT EACH SIDE OF THE EXPANSION / SEISMIC JOINT. PROVIDE SECTION OF FLEXIBLE CONDUIT BETWEEN JUNCTION BOXES AND GROUNDING BUSHINGS WITH #12 GROUNDING CABLE TO MAINTAIN CONTINUITY BETWEEN ALL (2) JUNCTION BOXES. PROVIDE FLEX CONDUIT AND GROUNDING CABLE OF SUFFICIENT LENGTH TO ACCOMMODATE THE CALCULATED BUILDING MOVEMENT PLUS 6" OF ADDITIONAL MOVEMENT. PROVIDE QUANTITIES AS REQUIRED.
12. ALL EXPOSED SURFACE MOUNTED RACEWAYS IN FINISHED SPACES BELOW 8'-0" IN ELEVATION SHALL BE A MINIMUM OF SERIES 700 METAL WIREMOLD OR EQUAL. THE INSTALLATION OF EXPOSED ELECTRICAL METALLIC TUBING (EMT) IN FINISHED SPACES BELOW 8'-0" IN ELEVATION WILL NOT BE ALLOWED.
13. CONDUITS SHALL NOT EXCEED FILL RATING OF 40% AS DEFINED BY THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70). PROVIDE SIZES AND QUANTITIES AS REQUIRED.
14. CONDUIT SHALL HAVE PAINTED 3/4" WIDE BANDS AT 20'-0" INTERVALS AND WITHIN 1'-0" OF EACH SIDE OF A FLOOR OR A WALL PENETRATION OR SHALL BE INSTALLED IN RED PAINTED CONDUIT.
15. WHERE EXPOSED TO VIEW IN FINISHED SPACES, PAINT ALL NEW CONDUITS, MOUNTING HARDWARE, AND RACEWAYS TO MATCH THE ADJACENT SURFACES.
16. ALL NEW FIRE ALARM SYSTEM JUNCTION BOXES SHALL BE PAINTED RED AND ANNOTATED "FIRE ALARM POWER LIMITED" ON THE COVER IN BLACK BOLD PRINT HAVING MINIMUM CHARACTER FONT SIZE ¼" TALL X ¼" WIDE.

FIRE ALARM GENERAL NOTES

1. PROVIDE ALL MATERIALS, EQUIPMENT, LABOR, DESIGN AND PROGRAMMING FOR A COMPLETE, INTELLIGENT (ANALOG) AND ADDRESSABLE (DIGITAL) LOW VOLTAGE 24 VOLT D.C., FULLY OPERATIONAL FIRE ALARM SYSTEM. ALL EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE NEW, CURRENTLY MANUFACTURED, AND SHALL BE DELIVERED TO THE PROJECT SITE WITH THE ORIGINAL FACTORY SEAL INTACT. MATERIALS AND WORKMANSHIP SHALL FULLY COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A. #70), NATIONAL FIRE ALARM AND SIGNALING CODE (N.F.P.A. #72), AND THE LAWS AND REGULATIONS OF WASHINGTON STATE.
2. THE INITIATION DEVICES, NOTIFICATION APPLIANCES, HEAD END EQUIPMENT, ETC. SHOWN ON THESE CONTRACT DOCUMENTS ARE TO ASSIST THE FIRE ALARM CONTRACTOR IN THE DESIGN OF THE FIRE ALARM SYSTEM. ALL REQUIRED DEVICES MAY NOT BE INDICATED AND WILL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE.
3. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS.
4. CORE DRILLED HOLES SHALL NOT PENETRATE THROUGH ANY STRUCTURAL BEAMS, REBAR CONCRETE SLABS, AND / OR WALLS THAT MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING.
5. WHEN PENETRATING FIRE RATED WALLS, FLOORS, OR CEILINGS, THE CONTRACTOR SHALL UTILIZE APPROVED FIRE RATED PENETRATION METHODS. THE FIRE RATING OF THE WALLS, FLOORS, OR CEILINGS SHALL BE MAINTAINED AFTER THE CONDUIT HAS BEEN INSTALLED.
6. EXISTING CONDUITS MAY BE REUSED BY THE FIRE ALARM SYSTEM CONTRACTOR IF DEEMED NECESSARY.
7. PRIOR TO ROUGH-IN, COORDINATE EXACT LOCATIONS OF FIRE ALARM APPLIANCES AND DEVICES WITH THE GENERAL ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS.
8. THE GENERAL CONTRACTOR AND FIRE ALARM SYSTEM CONTRACTOR SHALL COORDINATE ALL CUTTING, PATCHING AND FINISH WORK.
9. EACH NEW WATER FLOW SWITCH, PRESSURE SWITCH, OR TAMPER SWITCH SHALL HAVE A SEPARATE AND UNIQUE ADDRESS.
10. ALL MANUAL PULL STATIONS SHALL BE DUAL ACTION, KEY OPERABLE. THE USE OF BREAK GLASS FRONT STATIONS ARE NOT ALLOWED.
11. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE CARBON MONOXIDE DETECTION IN SPACES WITH FOSSIL FUEL BURNING APPLIANCES, EQUIPMENT, STOVES, OR FIRE PLACES.
12. UNLESS OTHERWISE NOTED IN THESE DRAWINGS, THE BASIS FOR THE VISUAL NOTIFICATION APPLIANCES (STROBES) INDICATED ON THE CONTRACT DOCUMENTS IS THE UTILIZATION OF (75) CANDELA (C.D.) AT A 44'-0" X 44'-0" SPACING FOR CEILING MOUNTED APPLIANCES AND 45'-0" X 45'-0" SPACING FOR WALL MOUNTED APPLIANCES. IF THE FIRE ALARM SYSTEM CONTRACTOR DECIDES TO INSTALL LOWER OUTPUT VISUAL APPLIANCES, IT BECOMES THE RESPONSIBILITY OF THE FIRE ALARM SYSTEM CONTRACTOR TO MEET THE MINIMUM CANDELA (C.D.) RATING AT THE LISTED MAXIMUM ROOM SIZE INDICATED IN TABLE 18.5.5.4.1(A) FOR WALL MOUNTED VISIBLE APPLIANCES OR TABLE 18.5.5.4.1(B) FOR CEILING MOUNTED VISIBLE APPLIANCES IN THE 2013 EDITION OF N.F.P.A. #72.
13. ALL ADDRESSABLE DEVICES AND DETECTOR BASES SHALL BE PERMANENTLY AND CLEARLY LABELED WITH THE DEVICE ADDRESS IN A READILY VISIBLE LOCATION DIRECTLY ON THE DEVICE.
14. PROVIDE NEW CIRCUIT LABELS AND DIRECTORY CARDS FOR PANELS ALTERED AND / OR ADDED BY THIS CONTRACT.

FIRE ALARM FLOOR PLAN CONSTRUCTION NOTES

1. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE PLYWOOD BACK BOARD(S) ON WALLS THAT ARE NOT CMU OR CONCRETE AND USED TO MOUNT ENCLOSURES OF ANY KIND. PLYWOOD BACKING BOARD(S) SHALL BE SECURELY FASTENED TO THE WALL, BE A MINIMUM OF ¾", APA EXTERIOR GRADE ACX, VOID-FREE (MOUNTED WITH THE SMOOTH SIDE OUT), AND FIRE RETARDANT WITH A FLAME SPREAD RATING NOT MORE THAN 25 WHEN TESTED ACCORDING TO ASTM E-84. SUBMIT A PICTURE OF THE INSTALLED PLYWOOD TO THE ARCHITECT / ENGINEER FOR APPROVAL PRIOR TO APPLYING (3) COATS OF EGG SHELL WHITE FIRE RETARDANT PAINT.
2. SEE THE FIRE ALARM RISER DIAGRAM ON SHEET FA0.02 FOR MORE INFORMATION.
3. FIRE SPRINKLER SYSTEM SWITCHES ARE EXISTING. THE SWITCHES SHALL BE WIRED AND CONNECTED TO THE NEW FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. SEE THE FIRE SPRINKLER SYSTEM DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF ALL FIRE SPRINKLER SWITCHES, WHICH SHALL BE MONITORED BY THE FIRE ALARM SYSTEM. IF REPLACED, THESE SWITCHES SHALL BE PROVIDED AND INSTALLED BY SPRINKLER SYSTEM CONTRACTOR.
4. THE 24 VOLTS D.C. SPRINKLER SYSTEM ALARM BELL SHALL BE PROVIDED BY THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL WIRE AND CONNECT THE ALARM BELL TO THE FIRE ALARM SYSTEM CONTROL PANEL (FMCP) AND THE FIRE ALARM CONTRACTOR SHALL PROGRAM THE ALARM BELL TO ACTIVATE UPON THE FLOW OF WATER.
5. POST INDICATING VALVE (PIV) AND BACKFLOW PREVENTER (BFP) TAMPER SWITCH MONITORING IS REQUIRED. **SEE SHEET FA2.02 AND CIVIL DRAWINGS FOR LOCATION.** SEE **ELECTRICAL SHEET E1.01** FOR CONDUIT REQUIREMENTS. ADDRESSABLE MONITOR MODULES MUST REMAIN IN A CONDITIONED SPACE AND WET RATED CABLE INSTALLED FROM THE ADDRESSABLE MODULES TO THE OUTSIDE TAMPER SWITCHES VIA 1" CONDUIT PROVIDED BY THE ELECTRICAL CONTRACTOR.
6. LOCATION OF AES ANTENNA IF SIGNAL STRENGTH REQUIRES OUTDOOR ANTENNA.

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STEVE W. WOOLERY — STATE OF WASHINGTON — 43074 — REGISTERED PROFESSIONAL ENGINEER

SOUTH KING FIRE & RESCUE
FACILITY IMPROVEMENTS
FIRE STATION 60
35100 PACIFIC HIGHWAY
SOUTH, FEDERALWAY,
WA 98003

PROJECT # 2015137

BID SET

ISSUED: MARCH 20, 2019

REVISION SCHEDULE

FIRE ALARM LEGEND AND NOTES - BUILDING 2

SHEET:

FA2.00

3/20/2019 2:35:22 PM

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS MATRIX

Notes:

1. If "Sequence of Operations" indicated here conflicts with specification, this "Sequence of Operations" supersedes specification sequence.
2. Provide a complete "Sequence of Operations" in accordance with N.F.P.A. #72 and contract documents.
3. This "Sequence of Operations" is considered to be the minimum amount of items required for this project. Provide additional Inputs and/or Outputs as required by the Authority Having Jurisdiction.

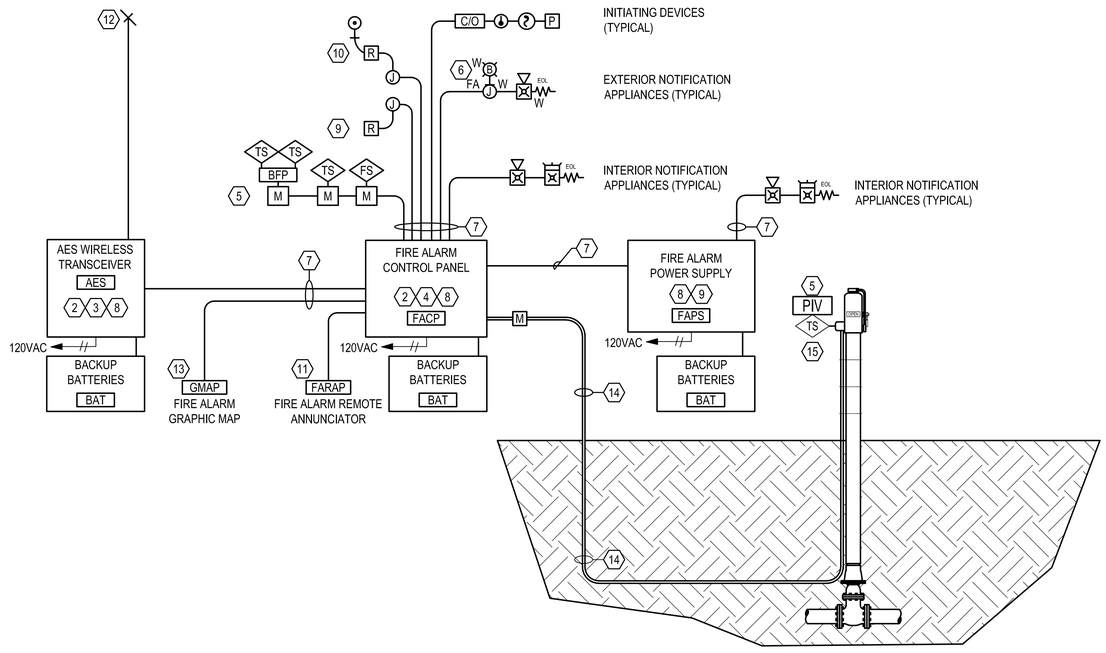
System Inputs	System Outputs: Fire Alarm System Control Panel	Annunciate "Alarm Condition" at the Fire Alarm System Control Panel	Annunciate "Alarm Condition" at the Fire Alarm System Remote Annunciator	Transmit "Alarm Signal" to the Central Station Monitoring Company.	Annunciate "Trouble Condition" at the Fire Alarm Control Panel	Annunciate "Trouble Condition" at the Fire Alarm Remote Annunciator	Transmit "Trouble Signal" to the Central Station Monitoring Company.	Annunciate "Supervisory Condition" at the Fire Alarm Control Panel	Annunciate "Supervisory Condition" at the Fire Alarm Remote Annunciator	Transmit "Supervisory Signal" to the Central Station Monitoring Company.	Audible / Visual Notification Appliances	Activate All Fire Alarm System Audible Notification Appliances	Activate All Fire Alarm System Visual Notification Appliances	Visual Notification Appliances Operation Maintained until Fire Alarm System Reset	Activation of Carbon Monoxide Detection Sensor shall Initiate a Signal that is Distinctly Different from a Fire Alarm and Transmit a Unique Signal / Message to the Constantly Attended Location.	Fire Sprinkler Systems	Local Sprinkler System Electric Bell Activation Upon the Flow of Sprinkler System Water
Fire Alarm System:																	
Fire Alarm System Control Panel in Alarm Condition		X	X	X								X	X	X			
Manual Pull Station		X	X	X								X	X	X			
Smoke Detector		X	X	X								X	X	X			
Heat Detector		X	X	X								X	X	X			
Fire Alarm System Control Panel in Trouble Condition					X	X	X										
Fire Alarm System Control Panel in Supervisory Condition								X	X	X							
Wet Pipe Automatic Fire Protection Sprinkler Systems:																	
Water Flow Switch		X	X	X								X	X	X			X
Control Valve Tamper Switch								X	X	X							
Post Indicating Valve Tamper Switch								X	X	X							

FIRE ALARM SYSTEM TRANSMITTER ZONE SCHEDULE

ZONE #	DESCRIPTION
1	MANUAL PULL STATION ALARM
2	SMOKE DETECTOR ALARM
3	WATER FLOW ALARM
4	TAMPER SWITCH SUPERVISORY SIGNAL
5	FIRE ALARM PANEL TROUBLE SIGNAL
6	FIRE ALARM PANEL SUPERVISORY SIGNAL
7	COMMON TROUBLE
8	SPARE
9	SPARE
10	SPARE
11	SPARE
12	SPARE
13	SPARE
14	SPARE
15	SPARE
16	SPARE
17	SPARE
18	SPARE
19	SPARE
20	SPARE

FIRE ALARM SYSTEM RISER DIAGRAM CONSTRUCTION NOTES

1. THE RISER DIAGRAM IS DIAGRAMMATIC IN NATURE. IT DOES NOT SHOW ALL DEVICES AND DOES NOT REPRESENT ACTUAL CONDUIT OR CABLE ROUTING.
2. THE FIRE ALARM SYSTEM SHALL BE FULLY FUNCTIONAL WITHOUT THE USE OF PRIMARY POWER. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A MINIMUM OF 24 HOURS OF STANDBY OPERATION FOLLOWED BY AN ADDITIONAL 5 MINUTES OF ALARM OPERATION. ALL BATTERIES SHALL BE SIZED TO PROVIDE AT LEAST 20% ADDITIONAL SPARE CAPACITY. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PROVIDE ALL NECESSARY EQUIPMENT, INTERFACES, OTHER APPURTENANCES, AND PROGRAMMING AS REQUIRED FOR COMMUNICATION TO THE CENTRAL STATION MONITORING COMPANY OR MONITORING STATION.
4. PROVIDE SYSTEM POWER SUPPLIES, WHERE REQUIRED.
5. FIRE SPRINKLER SYSTEM SWITCHES ARE EXISTING. THE SWITCHES SHALL BE WIRED AND CONNECTED TO THE NEW FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. SEE THE FIRE SPRINKLER SYSTEM DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF ALL FIRE SPRINKLER SWITCHES, WHICH SHALL BE MONITORED BY THE FIRE ALARM SYSTEM. IF REPLACED, THESE SWITCHES SHALL BE PROVIDED AND INSTALLED BY SPRINKLER SYSTEM CONTRACTOR.
6. THE 24 VOLTS D.C. SPRINKLER SYSTEM ALARM BELL SHALL BE PROVIDED BY THE FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL WIRE AND CONNECT THE ALARM BELL TO THE FIRE ALARM SYSTEM CONTROL PANEL (FACP) AND THE FIRE ALARM CONTRACTOR SHALL PROGRAM THE ALARM BELL TO ACTIVATE UPON THE FLOW OF WATER.
7. PROVIDE SYSTEM CABLES FOR A FULLY FUNCTIONAL SYSTEM, AS REQUIRED.
8. PROVIDE SURGE PROTECTION ON ALL INCOMING PRIMARY POWER SUPPLIES SERVING FIRE ALARM SYSTEM PANELS.
9. THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A RELAY MODULE TO INITIATE CLOSURE OF THE KITCHEN GAS SOLENOID VALVE UPON ACTIVATION OF THE FIRE ALARM SYSTEM. (NO ANSUL SYSTEM)
10. THE FIRE ALARM / EMERGENCY COMMUNICATION SYSTEM CONTRACTOR SHALL PROVIDE A RELAY MODULE FOR CONNECTION TO THE EXISTING MAGNETIC DOOR HOLDERS. THE MAGNETIC DOOR HOLDER SHALL RELEASE UPON RECEIVING AN ALARM SIGNAL FORM THE FIRE ALARM SYSTEM CONTROL PANEL.
11. FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL INSTALLED IN LOCATION INDICATED ON THE CONTRACT DOCUMENTS.
12. FIRE ALARM SYSTEM CONTRACTOR SHALL MEASURE AES SIGNAL STRENGTH. SIGNAL STRENGTH SHALL BE A NETCON 5 OR BETTER. IF AN OUTDOOR ANTENNA IS REQUIRED, MOUNT ANTENNA SO IT REACHES ABOVE THE ROOF LINE OF THE BUILDING.
13. FIRE ALARM GRAPHIC MAP TO CONFORM TO CONTRACT DOCUMENTS AND BE PROVIDED AT MAIN ENTRANCE AND AT THE MAIN FACP.
14. ALL WIRE RUN UNDERGROUND SHALL BE SUITABLE FOR WET LOCATIONS.
15. THE FIRE ALARM SYSTEM CONTRACTOR SHALL INSTALL 1" RIGID METAL CONDUIT FROM TERMINATION OF 1" PVC CONDUIT UP TO THE POST INDICATING VALVE TAMPER SWITCH. METAL CONDUIT SHALL BE SECURED TO THE POST INDICATING VALVE HOUSING WITH (3) STAINLESS STEEL HOSE CLAMPS.



1 FIRE ALARM SYSTEM RISER DIAGRAM - BUILDING #2
DIAGRAMMATIC

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WA 98003

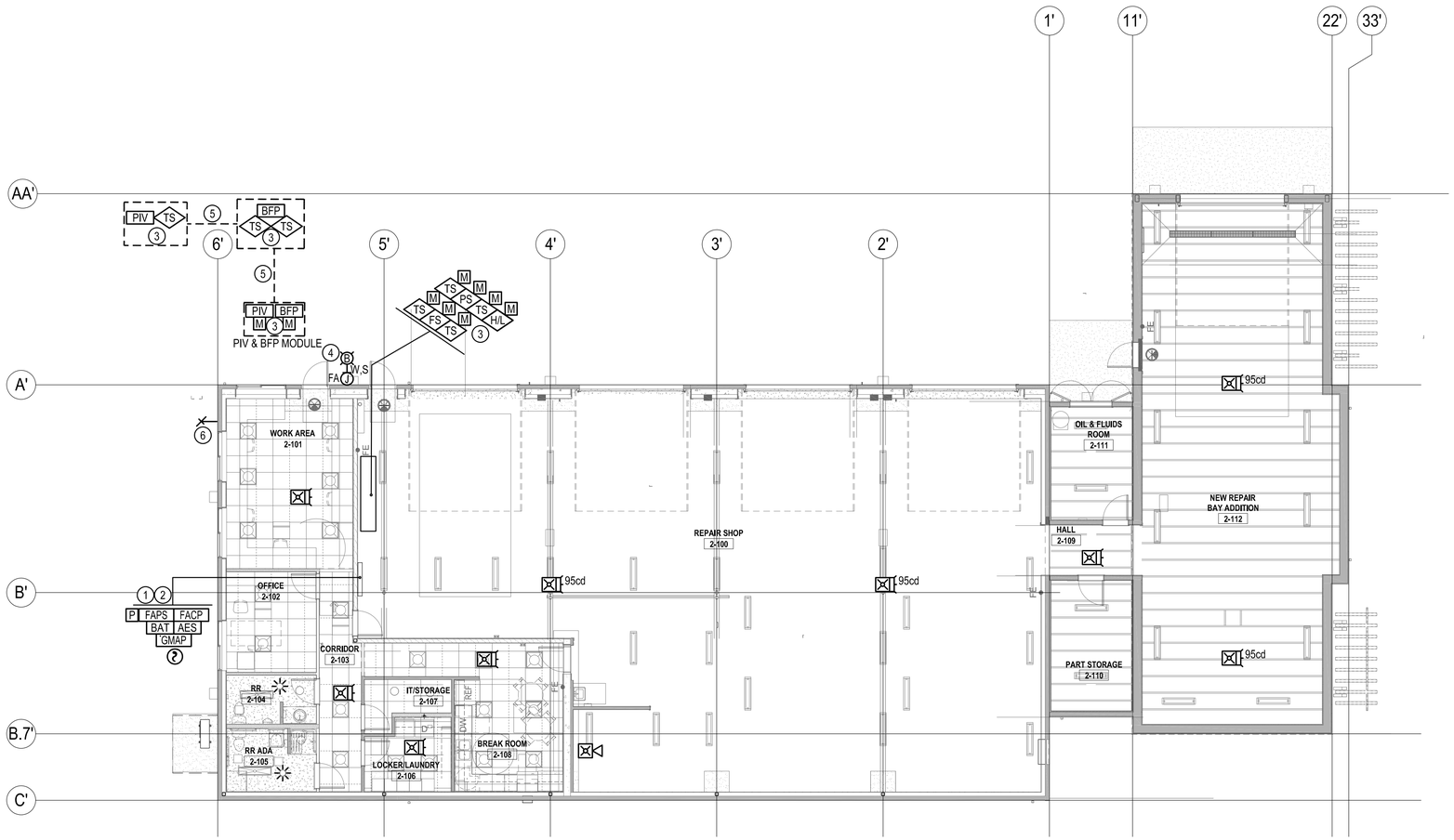
PROJECT # 2015137
BID SET
ISSUED: MARCH 20, 2019

REVISION SCHEDULE

FIRE ALARM RISER DIAGRAM AND NOTES - BUILDING 2

SHEET:
FA2.01

3/20/2019 2:35:26 PM



N

1 BUILDING 2 - FIRE ALARM LAYOUT PLAN

1/8" = 1'-0"

3/20/2019 2:35:35 PM

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PROJECT # 2015137

BID SET

ISSUED: MARCH 20, 2019

REVISION SCHEDULE

BUILDING 2 - FIRE ALARM LAYOUT PLAN

SHEET:

FA2.02

SKFR 60 SIGN-IN SHEET

NAME	COMPANY	Phone
Shawn Miller	Precision excavation NW	253 261-6723
Jason Marion	Western Ventures	425-640-5050
Chris Farias chrisf@callbrinc.com	Building Resources Inc.	206-605-7924
John Creager	AC/DC ELECTRIC	253-517-3022 J.creager@acdcelectric.us
Cory WALSH	WACHTER	406-369-7785
HARRISON HOTCHKISS	MACRO Z TECHNOLOGY Co.	253-536-1100 estimating@metco.com
JAMES Sodd	LINCOLN CONST	253-847-6414 INFO@LINCOLNNW.com

RICE fergus MILLER
ARCHITECTURE & PLANNING

PRE-BID WALK-THROUGH AGENDA

Project Name: **South King Fire & Rescue Station 60**

Meeting Date: April 3, 2019
Prepared By: Ed McManamna

1. Welcome and Introduction of Project Team Members

A. SKF&R Project Manager: DC Dave Mataftin.

B. Rice Fergus Miller: Ed McManamna, Project Manager.

C. Other Consultant Team Members: RFM Project Manager – Ed McManamna, Reid Middleton, Structural & Civil Engineers, Sider & Byers Mechanical Engineers and BCE Electrical Engineers.

D. Please sign the Sign-In Sheet. A list of today's Attendees will be attached to today's meeting notes and issued by addendum.

E. Agenda for this morning:

- General overview of the project and bidding procedures.
- Tour existing site conditions.

2. Bid Documents

A. Bid documents may be obtained from American Reprographics Company for a deposit or from Builder's Exchange as listed in the Advertisement for Bids.

B. At ARC Public Planwell you can view drawings and project manual for free, download PDFs for a fee, or order a hard copy set with a deposit for pickup plus cost of shipping.

3. General Description of the Work

A. Renovation of existing building and a new addition for vehicle maintenance along with sitework. Mechanical, electrical, civil improvements. Site improvements, including pump test pit and generator.

4. Advertisement for Bids

A. Bids currently due 2:00 PM, April 16, 2019, at SKF&R Headquarters Station 62.

5. Instructions to Bidders

A. Bidders are reminded this project is subject to Washington State Prevailing Wages.

6. Bid Form

A. This is a single lump sum base bid for each Contract.

B. The construction time to reach Substantial Completion is noted on the bid form.

C. Alternates: no Alternates at this time.

D. Unit Prices: no Unit Prices at this time.

E. Allowances: There are no Allowances at this time.

7. Available Information – Section 003100

A. Geotechnical Engineering Report is included in the Project Manual.

8. 011100 Summary of Work

A. Bidders are encouraged to review this section for the scope of work and work by owner.

B. Phasing and Sequence of Work: No requirements.

C. Permits: The Fire District has building, mechanical and plumbing permits in hand and electrical plan review underway. All other trade permits are the responsibility of the contractor.

D. Use of Premises: Owner will not be occupying the facility during construction.

9. 013100 Project Management and Coordination

A. Preconstruction meeting with SKF&R, and weekly progress meetings at the jobsite.

10. 016000 Product Requirements

A. Substitution Requests are due 10 calendar days prior to bid.

11. Closeout/Record Documents/Owner Training

A. Bidders are encouraged to review Closeout requirements, record drawings, and O&M sections of the project manual.

12. Contract Award and Start Date

A. Schedule: Pending receipt of a responsive and responsible bid within the District's budget for this project, it is the intent of the District to request approval of the Bid by the Board of Commissioners on or about April 23, 2019. With Board approval, it is the intent to execute a contract and NTP issued as soon as the required paperwork is submitted, i.e. Contractor Bond and Insurance documentation.

13. Addendum

A. No addenda issued at this time. Addendum 1 anticipated to be issued April 16th.

14. Additional Owner Comments

15. Attendee Questions and Site Tour

END OF AGENDA

SUBSTITUTION REQUEST FORM

To: Architect: Rice Fergus Miller, Inc.
275 5th Street, Suite 100
Bremerton, Washington 98337

Contractor: _____

We hereby submit for consideration the following product instead of specified item for above project:

Section 095123 Paragraph 2.3 - 2.4 Specified Item Armstrong Cortega Second Look II 2767

Proposed Substitution: Rockfon Pacific 261

Attachments: (If not applicable, write N/A left of item number.)

Yes No. 1: Complete product data.
N/A No. 2: Drawings showing dimensional changes and other change to drawings.
N/A No. 3: Complete description of all changes to specifications.
N/A No. 4: Description of effect on other trades, other contracts, and contract completion date.
Yes No. 5: List of differences between proposed and specified items.
Yes No. 6: List of names and addresses of three similar projects on which product was used, date of installation, and Architect's name and address.
N/A No. 7: Cost impact.

Undersigned attests function and quality equivalent or superior to specified item.

Submitted by: (Person and Firm) Sarah Lyons Valhalla Construction Products

Date 04/08/2019 Phone (253) 301-3831 Signature Sarah Lyons

Acceptance by Architect:

By: Sarah Feenstra
Date: 04/08/2019
Remarks: Manufacturer Approved

Accepted
Accepted as Noted
Not Accepted

SECTION

SUBSTITUTION REQUEST FORM

To: Architect: Rice Fergus Miller, Inc.
275 5th Street, Suite 100
Bremerton, Washington 98337

Contractor: _____

We hereby submit for consideration the following product instead of specified item for above project:

Section 066400 Paragraph 2.2 Specified Item Marlite Standard FRP

Proposed Substitution: Nudo FiberLite

Attachments: (If not applicable, write N/A left of item number.)

Yes No. 1: Complete product data.
N/A No. 2: Drawings showing dimensional changes and other change to drawings.
N/A No. 3: Complete description of all changes to specifications.
N/A No. 4: Description of effect on other trades, other contracts, and contract completion date.
Yes No. 5: List of differences between proposed and specified items.
Yes No. 6: List of names and addresses of three similar projects on which product was used, date of installation, and Architect's name and address.
N/A No. 7: Cost impact.

Undersigned attests function and quality equivalent or superior to specified item.

Submitted by: (Person and Firm) Sarah Lyons Valhalla Construction Products

Date 04/08/2019 Phone (253) 301-3831 Signature Sarah Lyons

Acceptance by Architect:

By: Sarah Feenstra
Date: 04/08/2019
Remarks: Manufacturer Approved

Accepted
Accepted as Noted
Not Accepted

SECTION

SUBSTITUTION REQUEST FORM

To: Architect: Rice Fergus Miller, Inc.
275 5th Street, Suite 100
Bremerton, Washington 98337

Contractor: Testing and Commissioning Services, LLC

We hereby submit for consideration the following product instead of specified item for above project:

Section 230593 Paragraph 1.6 Specified Item Acceptable Test and Balance Companies

Proposed Substitution: To include Testing and Commissioning Services, LLC

Attachments: (If not applicable, write N/A left of item number.)

N/A No. 1: Complete product data.
N/A No. 2: Drawings showing dimensional changes and other change to drawings.
N/A No. 3: Complete description of all changes to specifications.
N/A No. 4: Description of effect on other trades, other contracts, and contract completion date.
N/A No. 5: List of differences between proposed and specified items.
N/A No. 6: List of names and addresses of three similar projects on which product was used, date of installation, and Architect's name and address.
N/A No. 7: Cost impact.

Undersigned attests function and quality equivalent or superior to specified item.

Submitted by: (Person and Firm) Robert Coallier, President Testing and Commissioning Services, LLC

Date 04/08/19 Phone 3602555306 Signature

Acceptance by Architect:

By: James Whigham, PE
Date: 4/9/19
Remarks:

Accepted
Accepted as Noted
Not Accepted

SECTION

Provided to Builders Exchange of WA, Inc. For usage Conditions Agreement see www.bxwa.com - Always Verify Scale