CODE ANALYSIS

BUILDING INFORMATION:

- A) OCCUPANCY CLASSIFICATION(S): B
- B) OCCUPANCY LOAD(S): 83 OCC
- C) SPRINKLERS: YES
- D) CONSTRUCTION TYPE: IIB E) BUILDING HEIGHT: 1 STORY
- F) PROJECT SQUARE FOOTAGE: ~6,146 S.F.
- G) APPLICABLE CODES:
- 2021 INTERNATIONAL FIRE CODE
- 2019 NFPA 72
- 2021 NEC
- STATE AND LOCAL MARSHAL REGULATIONS
- H) CIRCUIT CLASSIFICATION: POWER LIMITED
- I) PARCEL NUMBER: 6021010051

| FPS1 Additiona | l Load Ba | ttery Ca | lculatio | n | 5/3/2024 | | | |
|---|-----------------------|----------------|-----------|-------|---------------|--|--|--|
| | PROJECT NAME | : JD SPORTS TI | | | | | | |
| | Required Standby Time | | Hours | | | | | |
| | Required Alarm Time | | Minutes | | | | | |
| | | Branch Cu | | | | | | |
| | AC Branch Curr | rent: 2.08 | Amps | 0 | 120V | | | |
| Maximum NAC Output | | | | | | | | |
| | Panel I | | Amps | | | | | |
| | Circuit I | Max: 3.00 | Amps | | | | | |
| | Regula | ted Load in | Standby | | | | | |
| | | Number | Current | | Total Current | | | |
| Device Type | Model | of Devices | (Amps) | | (Amps) | | | |
| | | | | | | | | |
| TOTAL STANDBY LOAD | | | | | 0.000000 | | | |
| | Regul | ated Load in | n ALARM | _ | | | | |
| | | Number | Current | | Total Current | | | |
| Device Type | Model | of Devices | (Amps) | | (Amps) | | | |
| FPS1 Additional Load.1 (See Voltage Drop Ca | culations) | | 1.08700 |)0 = | 1.087000 | | | |
| TOTAL ALARM LOAD | | | | | 1.087000 | | | |
| | Bat | tery Require | ements | | 1.007000 | | | |
| Standby Load | Bat | tery nequire | | andby | Time in Hours | | | |
| Current (Amps) | | 0.000000 | X 24.0000 | - | 0.000000 | | | |
| Alarm Load | | 0.000000 | | | ne in Hours | | | |
| Current (Amps) | | 1.087000 | X 0.25000 | | 0.271750 | | | |
| Total Ampere Hours (before derating factor) | | | | | 0.271750 | | | |
| Derating Factor | | | | Х | 1.2 | | | |
| TOTAL AMPERE HOURS REQUIRED | | | | = | 0.326100 | | | |
| BATTERIES TO BE PROVIDED (2 - | 12v) | | | F | IELD VERIFY | | | |

NOTE: THE ABOVE BATTERY CALCULATION IS A COMBINED TOTAL OF THE ADDITIONAL LOADS THAT WILL BE ADDED FROM THE SCOPE OF THIS PROJECT. FIELD VERIFY THE SIZE OF THE EXISTING BATTERIES AND UPSIZE ACCORDINGLY.

| Date | | | 5/3/2024 | | | | | | | | |
|------------------------------------|-------------|--|-----------|----------|-----------------|--------|-----------|--------|--|--|--|
| Project N | lame | | JD SPORTS | TI | | | | | | | |
| Circuit Nu | umber | | FPS1.1 | | | | | | | | |
| Nominal System Voltage | | | 20.4 | volts | Wire Resistance | | | | | | |
| Minimum | Device Vo | Itage | 16.0 | volts | Gauge Per 1000 | | | | | | |
| Distance from source to 1st device | | | 45 | feet | 14 3.07 | | | | | | |
| Wire Gaug | ge for bal | ance of circuit | | | 14 | 3.07 |] | | | | |
| Max Outp | out Current | : | 3.00 | amps | ו | S | peaker ID | S1.1. | | | |
| | uit Curren | | | amps | 1 | | NAC ID | | | | |
| Spare Current Capacity | | 20% | | 1 | | I | | | | | |
| End of Line Voltage | | 19.16 | volts | 1 | | | | | | | |
| 8 | | System Sen | sor | 1 | | | | | | | |
| Circuit is within limits | | | | Distance | Voltage | Drop | | | | | |
| Speaker | NAC | Device Model # | Device | Device | Previous | at | From | Percen | | | |
| Identifier | Identifier | and Candela | Wattage | Current | Device | Device | Source | Drop | | | |
| S1.1.1 | N1.1.1 | SPSCRL 75 | 1/2 | 0.111 | 45 | 20.10 | 0.300 | 1.47% | | | |
| S1.1.2 | N1.1.2 | SPSCRL 15 | 1/4 | 0.041 | 17 | 20.00 | 0.402 | 1.97% | | | |
| S1.1.3 | N1.1.3 | SPSCRL 15 | 1/4 | 0.041 | 16 | 19.91 | 0.494 | 2.42% | | | |
| S1.1.4 | N1.1.4 | SPSCRL 115 | 1/2 | 0.158 | 44 | 19.66 | 0.736 | 3.61% | | | |
| S1.1.5 | N1.1.5 | SPSCRL 115 | 1 | 0.158 | 24 | 19.56 | 0.844 | 4.14% | | | |
| S1.1.6 | N1.1.6 | SPSCRL 15 | 1/4 | 0.041 | 31 | 19.45 | 0.954 | 4.68% | | | |
| S1.1.7 | N1.1.7 | SPSCRL 30 | 1 | 0.063 | 16 | 19.39 | 1.007 | 4.94% | | | |
| S1.1.8 | N1.1.8 | SPSCRL 115 | 1 | 0.158 | 39 | 19.28 | 1.120 | 5.49% | | | |
| S1.1.9 | N1.1.9 | SPSCRL 115 | 1 | 0.158 | 37 | 19.21 | 1.192 | 5.84% | | | |
| S1.1.10 | N1.1.10 | SPSCRL 115 | 1 | 0.158 | 46 | 19.16 | 1.237 | 6.06% | | | |
| Totals | | | 6 3/4 | 1.087 | 315 | | | | | | |
| | | doubled in the calculatior must not be lower than | | • | | | | | | | |



THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

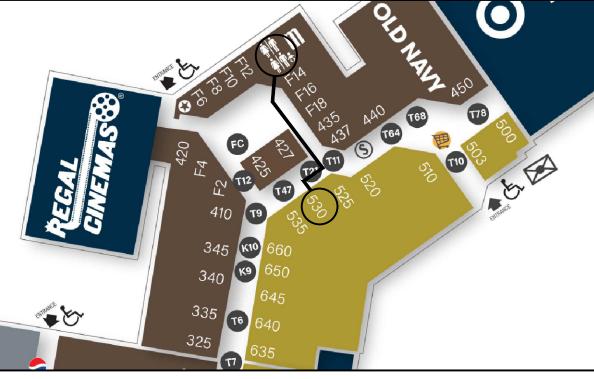
| City of Puyallup Development & Permitting Services ISSUED PERMIT | | | | | | |
|--|--------------|--|--|--|--|--|
| Building | Planning | | | | | |
| Engineering | Public Works | | | | | |
| Fire | Traffic | | | | | |



JD SPORTS SOUTH HILL MALL #1315 3500 SOUTH MERIDIAN, SPACE #530 **PUYALLUP, WA 98373** FIRE ALARM TENANT IMPROVEMENT DRAWINGS

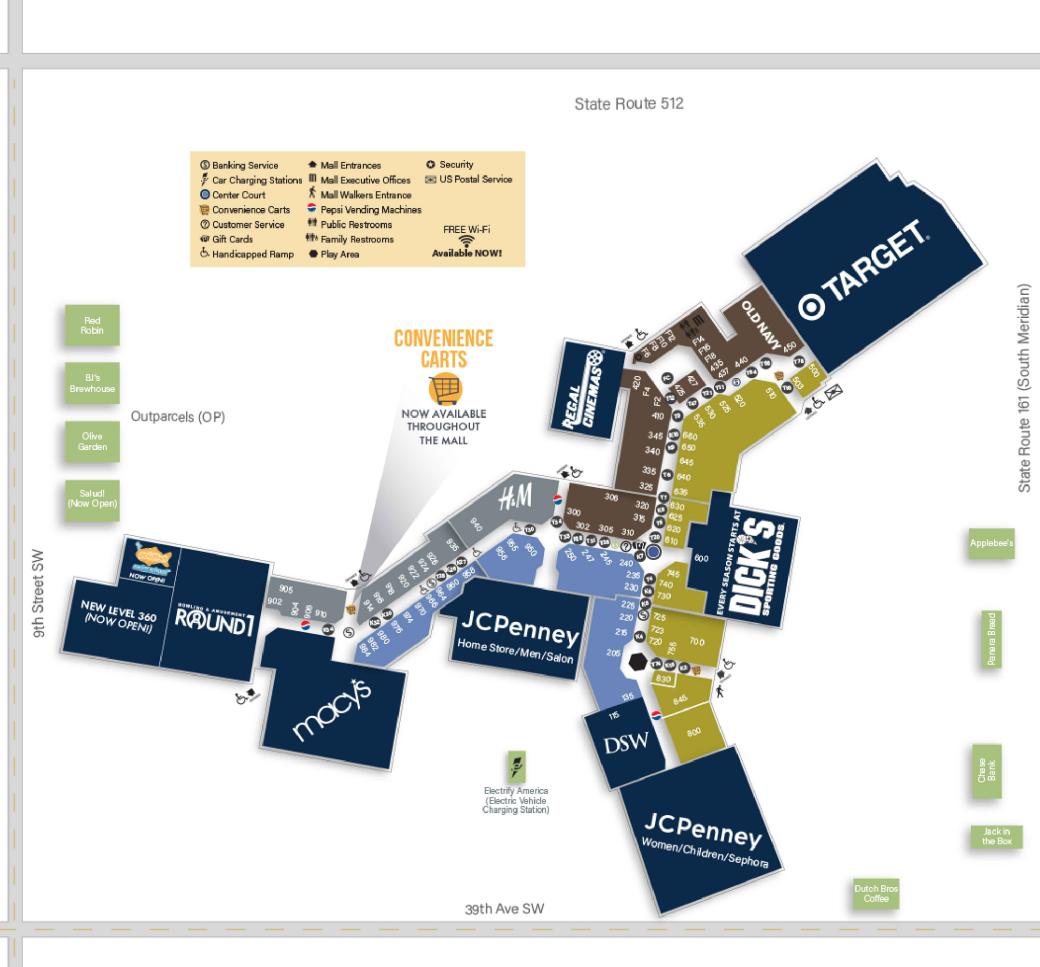


FI DESCRIPTION QTY SYMBOL FACPE FIRE ALARM CONTROL PANEL FPS F FIRE ALARM POWER SUPPLY (2)_F FIRE ALARM POWER SUPPLY SR CEILING MOUNT SPEAKER / STROBE 0 (R) ABBREVIATION DESCRIPTION EXISTING WITH GUARD PENDENT MOUNT P REMOVE AND RELOCATE R SOUNDER BASE WEATHERPROOF WP END OF LINE RESISTOR END OF LINE RELAY EOLR



CONSTRUCTION CLASSIFICATION (TABLE 601)- TYPE

| BUILDING ELEMENT | FIRE RATING |
|--|-------------|
| STRUCTURAL | 0-HR |
| BEARING WALLS | |
| EXTERIOR | 0-HR |
| INTERIOR | 0-HR |
| NONBEARING WALLS AND PARTITIONS EXTERIOR | N/A |
| NONBEARING WALLS AND PARTITIONS INTERIOR | 0-HR |
| FLOOR CONSTRUCTION | |
| INCLUDING SUPPORTING BEAMS AND JOISTS | 0-HR |
| ROOF CONSTRUCTION | |
| INCLUDING SUPPORTING BEAMS AND JOISTS | 0-HR |
| | |

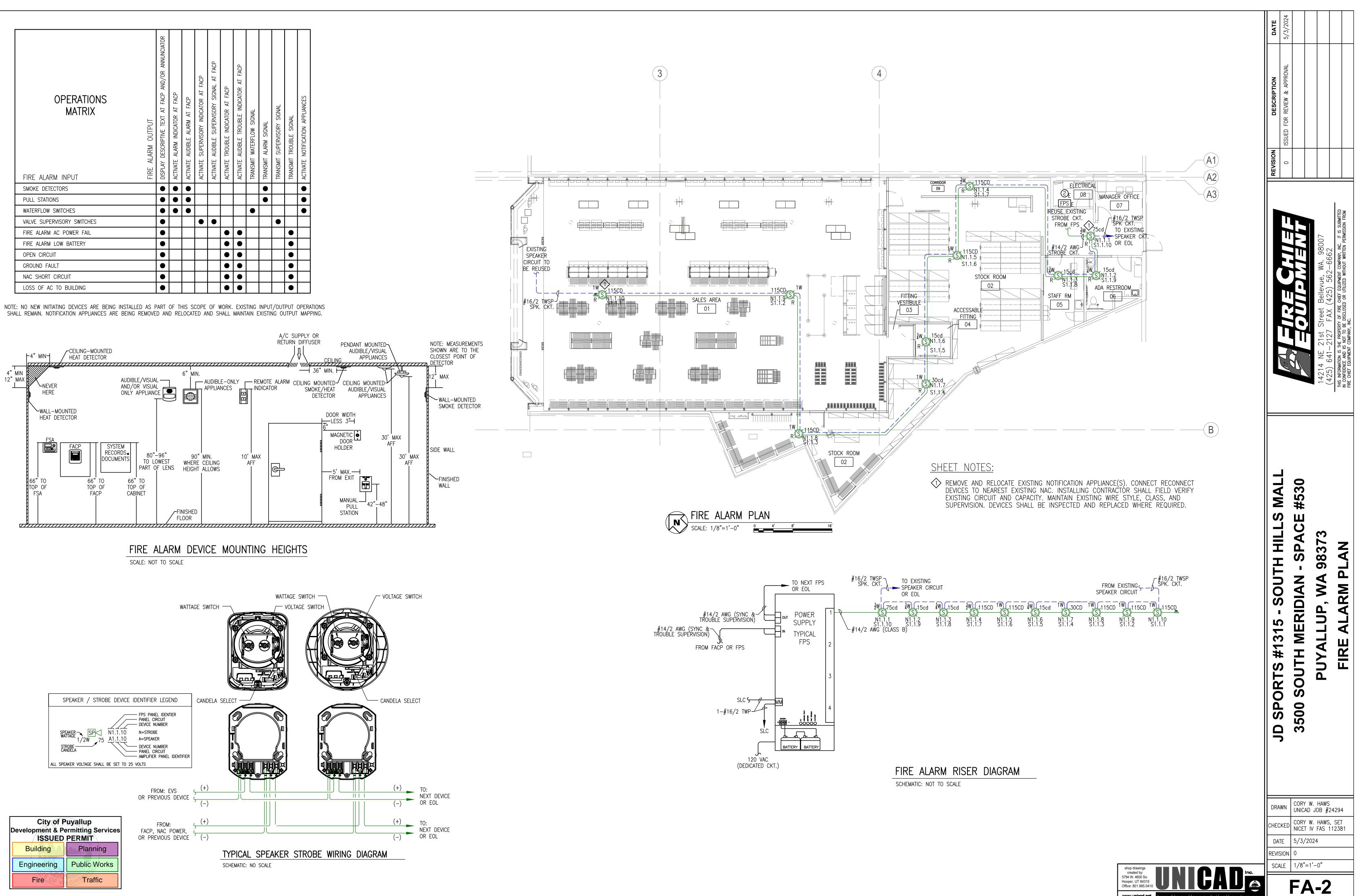


| RE ALAR | M SYMBO | L LEGEND | | DATE 5/3/2024 | |
|---------------------------|--|--|---|--------------------------------------|--|
| Note: All symbol | s may not be used on . & PART # | | MOUNT IN | | |
| EXISTING | | WALL - TOP @ 66" | EXISTING TO REMAIN | - IIII | |
| EXISTING | | WALL - TOP @ 66" | EXISTING TO REMAIN | APPROVAL | |
| EXISTING SYSTEM SENSOF | R – SPSCR(W)L | WALL – TOP @ 66" CEILING | EXISTING TO REMAIN REMOVE AND RELOCATE | | |
| ABBREVIATIO | | SCRIPTION | | | |
| AWG TWP TWSP | TWISTED P | WIRE GAUGE AIR HIELDED PAIR | L1SOO1 OR MO1 (L – DENOTES LOOP #) (S or M – DENOTES SENSOR OR MODULE #) | SSUED FOR | |
| FPLP FPLR | FIRE POWE | R LIMITED PLENUM R LIMITED RISER | $1 - \frac{\#16}{2}$ TWP wire type abbreviated | | |
| | | ROBE 30 | CONDUCTOR COUNT WIRE SIZE # OF CABLES (IF OMITTED ONLY 1 CABLE NEEDED) | | |
| | GENERAL | NOTES: | I | | |
| | EXISTING S SPEAKER TENANT SI | FIRE ALARM SYSTEM A SPEAKER STROBES IN STROBES TO EXISTING | TENANT SPACE. CONNECT NEWLY RELOCATED SPEAKER AND STROBE CIRCUITS LOCATED IN ALARM POWER SUPPLY IN ELECTRICAL ROOM TO | | 14214 NE 21st Street Bellevue, WA. 98007 (425) 641–2127 FAX (425) 562–6662 THIS INFORMATION IS THE PROPERTY OF FIRE CHIEF EQUIPMENT COMPANY, INC. IT IS SUBMITTED IN CONFIDENCE AND IIS NOT TO BE DISCLOSED OR UTILIZED WITHOUT WRITTEN PERMISSION FROM FIRE CHIEF EQUIPMENT COMPANY, INC. |
| | FOR EXAC | T DIMENSIONS. | MATIC. REFER TO THE ARCHITECTURAL DRAWINGS | | V.A. 9 2-666. 11 company, without writ |
| | CODES AS | REQUIRED BY THE L | TH NEC, NFPA 72 AND ALL OTHER APPLICABLE OCAL AUTHORITY HAVING JURISDICTION. | | Bellevue, (425) 562 chief equipment or utilized wit |
| | DIFFER FR CONSTRUC SEPARATIO | OM THESE PLANS. WI TION CONDITIONS ALL N WALLS AND FIRE W | ANS IS SCHEMATIC — ACTUAL WIRE LOCATIONS MAY RING SHALL BE PERFORMED AS ACTUAL BUILDING OW AND TO MINIMIZE PENETRATIONS THROUGH AREA ALLS. THE USE OF A RACEWAY IS PERMITTED AS VOLTAGE CABLES ARE IN THE SAME RACEWAY. | | st Street B 27 FAX (4 PROPERTY OF FIRE CH DT TO BE DISCLOSED C |
| E 2B | 5. FIRE RATIN CONSTRUC | | INED FOR ALL PENETRATIONS THROUGH FIRE-RATED | | NE 21 641–21 e and is the p uupment con |
| | PROVIDED CIRCUIT B MECHANICA SHALL BE WITH NFPA DETERMINE CIRCUITS | BY A DEDICATED AC REAKER SHALL BE PE ALLY PROTECTED, ACC RED AND LABELED " A 72. ELECTRICAL COI SIZE OF WIRING ANI | ANELS AND FIRE ALARM POWER SUPPLIES MUST BE BRANCH CIRCUIT. THE LOCATION OF THE BRANCH RMANENTLY IDENTIFIED AT THE CONTROL UNIT, ESSIBLE ONLY TO AUTHORIZED PERSONNEL AND FIRE ALARM CIRCUIT CONTROL" IN ACCORDANCE NTRACTOR SHALL PERFORM LOAD CALCULATIONS TO D BREAKERS FOR ALL FIRE ALARM AC BRANCH MATION PROVIDED IN THE BATTERY CALCULATIONS IT. | | 14214 (425) (THIS INFORMAT IN CONFIDENCE FIRE CHIEF EQ |
| | IN CABINE AWAY FRO POWER-LI | T. ALL POWER-LIMITEE M ANY NONPOWER-LI MITED AND NONPOWEF | R-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25" MITED CIRCUIT WIRING. FURTHERMORE, ALL R-LIMITED CIRCUIT WIRING MUST ENTER AND EXIT NT KNOCK OUTS AND/OR SEPARATE CONDUITS. | | |
| | B. WHEN UTII CONDUCTC VERTICALL | LIZING CLASS "A" CIR ORS OF CLASS "A" CIF Y AND 48" WHERE RU | CUITS, SEPARATE OUTGOING AND RETURN RCUITS BY A MINIMUM OF 12" WHERE RUN IN HORIZONTALLY. | 4AL 4530 | |
| 1 | | LIZING SHIELDED CABL BOX. INSULATE AND | E TIE SHIELDS THROUGH AND INSULATE AT EACH TAPE BACK AT END. | LS A # | |
| | MANUFACT SHALL BE IN LISTED EQUIPMEN SUPPORTE PHYSICAL WITHIN 7 | URER FOR THE INTEN TYPE FPLP OR FPLR FITTINGS, BOXES, EN T. WHERE INSTALLED D AND INSTALLED IN DAMAGE IS AFFORDED FT OF THE FLOOR, C | BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT DED PURPOSE. CABLES USED IN VERTICAL RUNS CABLE SPLICES OR TERMINATIONS SHALL BE MADI CLOSURES, FIRE ALARM DEVICES, OR UTILIZATION EXPOSED, CABLES SHALL BE ADEQUATELY SUCH A WAY THAT MAXIMUM PROTECTION AGAINST BY BUILDING CONSTRUCTION. WHERE LOCATED ABLES SHALL BE SECURELY FASTENED IN AN LS OF NOT MORE THAN 18 IN. | 315 - SOUTH HILL MERIDIAN - SPACI | P, WA 98373 ARM PLAN |
| 1 | | TECTORS SHALL NOT IS COMPLETED AND | BE INSTALLED UNTIL AFTER CONSTRUCTION FINAL. | | UP LA |
| 1: | | 5. WALL-MOUNTED SM | IINIMUM OF THREE (3) FEET FROM MECHANICAL OKE DETECTORS SHALL BE LOCATED A MAXIMUM OF | | PUYALLUP FIRE ALA |
| 1. | PROVIDE A | | ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS. IODULES. PROVIDE A MULTI-SYNC MODE SLAVE C MODULES. | ∥s Ľ | ΡUΥ FIF |
| 1 | | L FIELD SELECTABLE ALARM CONTRACTOR. | AUDIBILITY SETTINGS OF NOTIFICATION APPLIANCES | O ∨ | |
| | THE INSTA SYSTEM, F | LLING CONTRACTOR SH | E ALARM SYSTEM INSTALLATION AND PROGRAMMING, IALL PERFORM FINAL TESTING OF THE ENTIRE CODES, AND SHALL COORDINATE AND PERFORM A PECTION. | JD SP 3500 | |
| 1 | | | AS REQUIRED BY THE INTERNATIONAL FIRE CODE, L AUTHORITY HAVING JURISDICTION. | | |
| 1 | NOTIFICATIO | ON APPLIANCE CIRCUIT | PHYSICALLY, LABEL ALL INITIATING DEVICES AND END OF LINE (WHEN WIRING CLASS "B"). THESE NOR TO START—UP AND TESTING. | | |
| | AND VALVE SHALL BE LESS THAN | ES OR OTHER FIRE DE IDENTIFIED WITH PERI | FOR AIR—CONDITIONING SYSTEMS, SPRINKLER RISER TECTION, SUPPRESSION OR CONTROL ELEMENTS MANENTLY MOUNTED SIGNS WITH LETTERING NOT H A PRINCIPAL STROKE OF NOT LESS THAN 3/8 F WITH BACKGROUND. | | W. HAWS D JOB #24294 W. HAWS, SET IV FAS 112381 2024 |
| 1 | | | | | =1'-0" |
| | | | 5794 W. 4600 So. Hooper, UT 84315 Office: 801.985.0410 | | \-1 |

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re Alarm Design &

| OPERATIONS MATRIX | FIRE ALARM OUTPUT | DISPLAY DESCRIPTIVE TEXT AT FACP AND/OR ANNUNCIATOR | ACTIVATE ALARM INDICATOR AT FACP | ACTIVATE AUDIBLE ALARM AT FACP | ACTIVATE SUPERVISORY INDICATOR AT FACP | ACTIVATE AUDIBLE SUPERVISORY SIGNAL AT FACP | ACTIVATE TROUBLE INDICATOR AT FACP | ACTIVATE AUDIBLE TROUBLE INDICATOR AT FACP | FRANSMIT WATERFLOW SIGNAL | TRANSMIT ALARM SIGNAL | FRANSMIT SUPERVISORY SIGNAL | TRANSMIT TROUBLE SIGNAL | ACTIVATE NOTIFICATION APPLIANCES |
|----------------------------|-------------------|---|----------------------------------|--------------------------------|--|---|------------------------------------|--|---------------------------|-----------------------|-----------------------------|-------------------------|----------------------------------|
| FIRE ALARM INPUT | | DIS | AC ⁻ | AC ⁻ | AC ⁻ | AC. | AC ⁻ | AC ⁻ | TR | R R | IR | TR | <u>S</u> |
| SMOKE DETECTORS | | • | • | • | | | | | | | | | |
| PULL STATIONS | | • | | • | | | | | | | | | |
| WATERFLOW SWITCHES | | | | | | | | | | | | | |
| VALVE SUPERVISORY SWITCHES | | | | | | | | | | | | | |
| FIRE ALARM AC POWER FAIL | | | | | | | | | | | | | |
| FIRE ALARM LOW BATTERY | | | | | | | | | | | | | |
| OPEN CIRCUIT | | | | | | | | | | | | | |
| GROUND FAULT | | | | | | | | | | | | | |
| NAC SHORT CIRCUIT | | | | | | | | | | | | | |
| LOSS OF AC TO BUILDING | | | | | | | | | | | | | |



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