SYSTEM REQUIREMENTS FULLY ADDRESSABLE ALARM SYSTEM TO BE PROVIDED AND INSTALLED BY A CERTIFIED SYSTEM INSTALLER, APPROVED BY THE EQUIPMENT MANUFACTURER. 2. VERIFY LOCATION OF ALL DEVICES AND EQUIPMENT WITH FIRE MARSHAL'S OFFICE AND OWNER'S PROJECT REPRESENTATIVE PRIOR TO ROUGH-IN. 3. PROVIDE AND INSTALL ALL 'FIRE MARSHAL APPROVED' SIGNAL TRANSMISSION EQUIPMENT FOR MUNICIPAL TIE-IN. COORDINATE WITH FIRE MARSHAL'S OFFICE. 4. TROUBLE AND ALARM INITIATIONS TO TRANSMIT SEPARATE AND DISTINCT SIGNALS TO MONITORING STATION. 5. INCOMING 'FIRE' ALARM INITIATIONS SHALL OVERRIDE 'TROUBLE' INITIATIONS. 6. SEPARATE 'TROUBLE' AND 'ALARM' SIGNALS SHALL BE ANNUNCIATED AT 1. SUBMIT SHOP DRAWINGS TO FIRE MARSHAL FOR APPROVAL PRIOR TO ROUGH-IN. . | 8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 72, ADA REQUIREMENTS, AND ALL LOCAL CODES AND ORDINANCES. COORDINATE WITH SYSTEM VENDOR FOR ADDITIONAL REQUIREMENTS AND PROVIDE ALL LINE VOLTAGE NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. 10. INSTALLATION OF DUCT SMOKE DETECTORS TO BE COORDINATED WITH MECHANICAL CONTRACTOR. · ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOXES, CONDUITS, WIRING, DEVICES, AND ETC., AS REQUIRED FOR COMPLETE AND OPERATIONAL ALARM SYSTEM.

12. ALARM FROM ANY AUTOMATIC INITIATING DEVICE SHALL SHUTDOWN

5. PROVIDE SEPARATE I/O CONTROL CIRCUITS FOR GAS SOLENOID (IF

TEST OVERRIDE CAPABILITIES FOR THESE CIRCUITS.

OR UPON LOSS OF NORMAL UTILITY POWER.

APPLICABLE) AND HVAC SHUT-DOWN. ALARM SYSTEM SHALL HAVE

6. RELAYS FOR SECURITY DOOR LOCKS SHALL BE CONFIGURED SO THAT

LOCKS WILL DE-ENERGIZE UPON ACTIVATION OF THE ALARM SYSTEM

13. ALL CABLING SHALL BE RUN IN MINIMUM 3/4" METAL CONDUIT UP TO 7'-0" IN EXPOSED ARES, PROVIDE 3/4" STUB UPS IN FINISHED AREAS TO ABOVE

ACCESSIBLE CEILING SPACE. FREE CABLE THAT ARE U.L. LISTED FOR THE

APPLICATION AND PLENUM RATED, MAY BE USED AFTER THAT. HOWEVER;

FREE CABLE CAN ONLY BE USED WHERE APPROVED BY FIRE MARSHALL,

ALL HVAC UNITS.

AND OWNER.

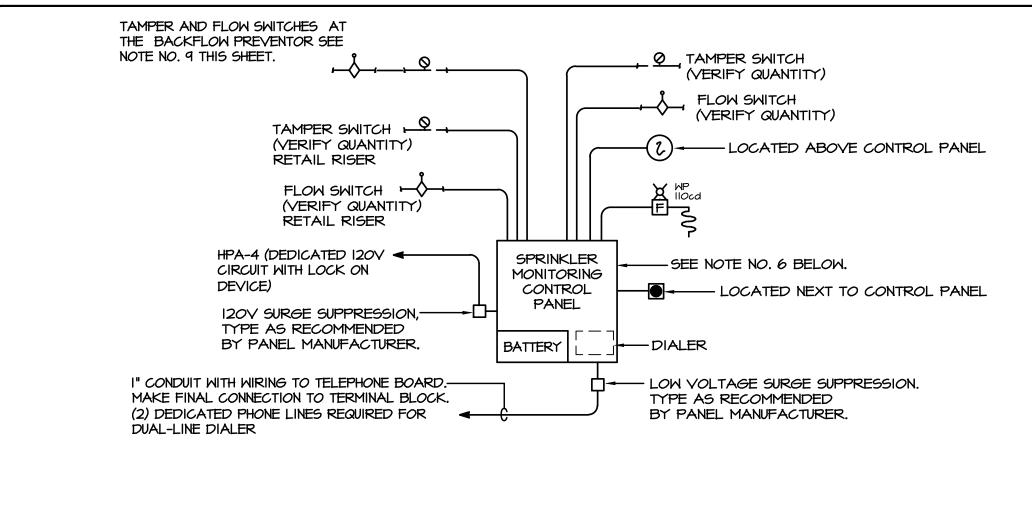
SPRINKLER ALARM SYSTEM NOTES:
I. SPRINKLER ALARM SYSTEM SHALL BE INSTALLED BY LICENSED FIRE ALARM CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-72 AS A MINIMUM.
2. ANY DRAWINGS RESUBMITTED SHALL CLEARLY INDICATE REVISIONS BY CLOUDING AND DATING THE CHANGED AREA.

3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH THE FOLLOWING INFORMATION AS A MINIMUM:

- A. PROVIDE SEQUENCE OF OPERATION (A WRITTEN DESCRIPTION OR MATRIX CHART) TO DEFINE THE EVENTS THAT OCCUR WHEN VARIOUS INITIATING DEVICES ARE ACTIVATED.
- B. DUCT MOUNTED SMOKE DETECTORS, WHERE APPLICABLE, SHALL, UPON SENSING SMOKE SHUT DOWN THE ENTIRE HVAC EQUIPMENT VIA RELAYS SHOWN.
- C. PROVIDE SPRINKLER ALARM RISER SIMILAR TO THE ONE SHOWN ON THE CONSTRUCTION DOCUMENT.
- D. ALL SUBMITTALS SHALL INDICATE COMPLIANCE WITH:

NFPA - 72 2013 EDITION. NFPA - 13 2010 EDITION. NFPA - 101 2010 EDITION NFPA - 70 (NATIONAL ELECTRIC CODE) 2011 EDITION.

- E. SUBMITTED DRAWINGS SHALL IDENTIFY CANDELA ON STROBE LIGHTS ON THE DRAWINGS.
- F. SHOW ALARM CONNECTION TO THE SPRINKLER SYSTEM DEVICES.
- G. PROVIDE SIGNED AND DATED CONTRACT FOR TEST AND INSPECTION IN ACCORDANCE WITH NFPA STANDARDS ALONG WITH THE RECORD OF COMPLETION AS PER NFPA 72 I-6.2.I AT THE TIME OF SYSTEM ACCEPTANCE
- H. PROVIDE DETAILS ON THE DRAWINGS SHOWING THE WIRING TYPE BASED ON NFPA 70 ARTICLE 760 AND CUT SHEET OF THE WIRING PROPOSED.
- J. SHOW LOCATION OF ALL POWER EXPANDER PANELS AND SHOW SMOKE DETECTOR ABOVE EACH PANEL.K. PROVIDE A CUT SHEET OF ALL LOW VOLTAGE SURGE SUPPRESSION
- PROPOSED FOR WIRING SHOWN.
- PROVIDE BATTERY CALCULATION SUPPORTING COMPLIANCE WITH MINIMUM CODE OR AS REQUIRED BY THESE DOCUMENTS, WHICHEVER IS MORE STRINGENT.
- M. PROVIDE VOLTAGE DROP CALCULATION FOR THE PROPOSED WIRE SIZING, TYPE AND ROUTING.
- N. PROVIDE RECORD DRAWINGS SHOWING ACTUAL CONDUIT AND WIRING INSTALLATION AND ANY DEVIATION FROM THE PROPOSED ONE.
- O. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER WITH AN ACTIVE STATE LICENSE.



SPRINKLER MONITORING SYSTEM RISER DIAGRAM ALLOW 5 WEEKS MINIMUM LEAD TIME FOR ATT ACTIVATION OF PHONE LINES FOR NO SCALE

NOTES:

I. SEE PLANS FOR DEVICE QUANTITIES AND LOCATIONS.

BUILDING CERTIFICATE OF OCCUPANCY AS REQUIRED.

- SPRINKLER MONITORING SYSTEM RISER IS A SCHEMATIC DRAWING ONLY, SINCE WIRING AND EQUIPMENT MAY DIFFER BETWEEN MANUFACTURERS.
- 3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, CUT SHEETS, BATTERY CALCULATIONS, AND SEQUENCE OF OPERATION TO FIRE MARSHALL FOR APPROVAL PRIOR TO COMMENCING ANY WORK.
- 4. COORDINATE WITH SPRINKLER CONTRACTOR FOR RESPONSIBILITY OF WORK.
- 5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 12, ADA REQUIREMENTS, NFPA IOI LIFE SAFETY CODE, CITY OF TALLAHASSEE AND INTERNATIONAL BUILDING CODE -2003.
- SPRINKLER ALARM SYSTEM SHALL BE MONITORED BY A PROPERLY CERTIFIED AND LISTED CENTRAL STATION MONITORING COMPANY.
- 7. ALARM FROM ANY AUTOMATIC INITIATING DEVICE SHALL SHUTDOWN ALL HVAC UNITS.

- 8. LOCATE DEVICES TO AVOID ANY CONFLICT WITH HVAC DUCTS OR
- 9. VERIFY LOCATION OF THE BACK FLOW PREVENTOR AND/OR P.I.V.
 VALVE ON SITE WITH CIVIL DRAWINGS AND PROVIDE I" CONDUIT
 WITH WIRING AS REQUIRED AND TIE TO SPRINKLER MONITORING
 PANEL. PROVIDE RELAYS AND EQUIPMENT REQUIRED.
- 10. PROVIDE (2) SPARE SIGNAL CIRCUITS MINIMUM. PROVIDE REQUIRED BATTERY CAPACITY.
- II. CONTRACTOR SHALL VERIFY ALL DEVICE LOCATIONS AND FUNCTIONS WITH FIRE MARSHAL PRIOR TO ROUGH IN.
- 12. SYSTEM SHALL BE PROVIDE WITH BATTERY CAPACITY, UPON LOSS OF POWER, OF (60) HOURS OF STAND BY AND (5) MINUTES OF ALARM AT THE END OF THE PERIOD.
- 13. DUCT SMOKE DETECTORS SHALL SHUT DOWN THE UNITS AT ALARM CONDITION AND PROVIDE SUPERVISORY ONLY SIGNAL TO THE CONTROL PANEL. COORDINATE SEQUENCE OF OPERATION WITH FIRE MARSHAL.

DEVICE LEGEND		
SHLZZ L HR	S.A.C.P.	SPRINKLER ALARM CONTROL PANEL. SILENT KNIGHT INTELLIKNIGHT 5808 SINGLE LOOP ADDRESSABLE FIRE ALARM CONTROL PANEL WITH UP TO 127 ADDRESSABLE POINTS OR EQUAL.
	S.R.A.	SPRINKLER ALARM REMOTE ANNUNCIATOR PANEL. SILENT KNIGHT 5860, 80 CHARACTER BACK LIT LCD OR EQUAL.
	F.D.P.M.	DISTRIBUTION POWER MODULE. SILENT KNIGHT 5496, 6.0 AMPS OF POWER WITH (4) CLASS B NOTIFICATION CIRCUITS OR EQUAL.
		MANUAL ALARM PULL STATION (48" A.F.F. U.O.N.) ADDRESSABLE DUAL ACTION PULL STATION. SILENT KNIGHT SD500-PSDA, OR EQUAL.
	\bigcirc	PHOTOELECTRIC SMOKE DETECTOR, SILENT KNIGHT SD505-APS OR EQUAL.
A L A	①	ADDRESSABLE HEAT DETECTOR. SILENT KNIGHT SD505-AHS, OR EQUAL.
		120 VOLT, DUCT MOUNTED PHOTOELECTRIC SMOKE DETECTOR. SEE DETAIL ON SHEET E3.2.
R	(R_T)	REMOTE TEST/INDICATOR STATION MOUNT AT 48"

A.F.F., ACCESSIBLE TO FIRE INSPECTORS AND

ALARM SYSTEM HORN/STROBE (ADA) MOUNTED AT 80"

WITH WHITE DEVICES, AND COVERS) OR EQUAL.

WITH SYNC MODULES AS REQUIRED. WHEELOCK

NOT ALL DEVICES SHOWN IN LEGEND MAY BE REQUIRED FOR THIS PROJECT. REVIEW FIRE ALARM PLANS AND DETAILS

A.F.F. TO BOTTOM. WHEELOCK NS SERIES INCLUDING

SELECTABLE CONTINUOUS TONE OR TEMPORAL PATTERN.
THEY SHALL BE PROVIDED WITH SYNC MODULES AS
REQUIRED. WHEELOCK NS-24MCM-FW-DSM (MULTI CANDELA

ALARM SYSTEM STROBE (ADA) MOUNTED AT 80" A.F.F. TO

NS-24MCW-FW-DSM (MULTI CANDELA WITH WHITE DEVICES,

BOTTOM. WHEELOCK NS SERIES. THEY SHALL BE PROVIDED

SD505-DTS.

FAN SHUTDOWN RELAY

AND COVERS) OR EQUAL.

FOR ITEMS WHICH APPLY.

SPRINKLER WATER FLOW SWITCH.

SPRINKLER VALVE TAMPER SWITCH.

ADJACENT TO UNIT THERMOSTAT. SILENT KNIGHT

<u>NOTE:</u>

THE MONITORING SYSTEM DESIGN IS CONSIDERED PRELIMINARY AND IS INTENDED TO PROVIDE GENERAL LAYOUT AND CRITERIA INFORMATION FOR BIDDING PURPOSES ONLY. THE SUCCESSFUL BIDDER (SYSTEM INSTALLER) SHALL BE RESPONSIBLE FOR PREPARING FOR AND OBTAINING THE NECESSARY PERMIT.

NOTE:

SPRINKLER MONITORING SYSTEM RISER DIAGRAM
DOES NOT REPRESENT ACTUAL DEVICE QUANTITIES.
REFER TO SYSTEM DRAWINGS FOR DEVICE

LOCATIONS AND QUANTITIES.

<u>TE:</u>

CHEHAYEB & ASSOCIATES, INC.

CONSULTING PROFESSIONAL ENGINEERS

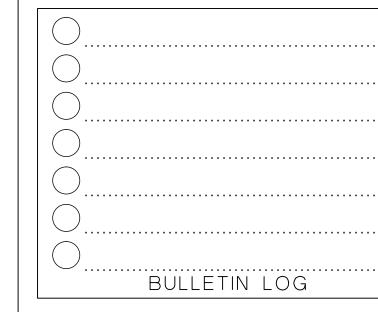
3702 AZEELE ST.
TAMPA, FL 33609

LIC. #49521

SOUHEIL CHEHAYEB

CERT. #7340

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WESTLAKE VISITOF CENTER CITY OF WESTLAKE PALM BEACH COUNTY, FLORIDA

JUAN F. ROMERO AIA. LICENSE NO. AROOO7793.

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR
CENTER
PROJECT NAME

SPRINKLER MONITORING SYSTEM & DETAILS

SHEET NAME

PROJECT NUMBER: 2016.037

DRAWN BY: R.R. CHECKED BY: S.C.

SCALE:

E3.0

SHEET NUMBER