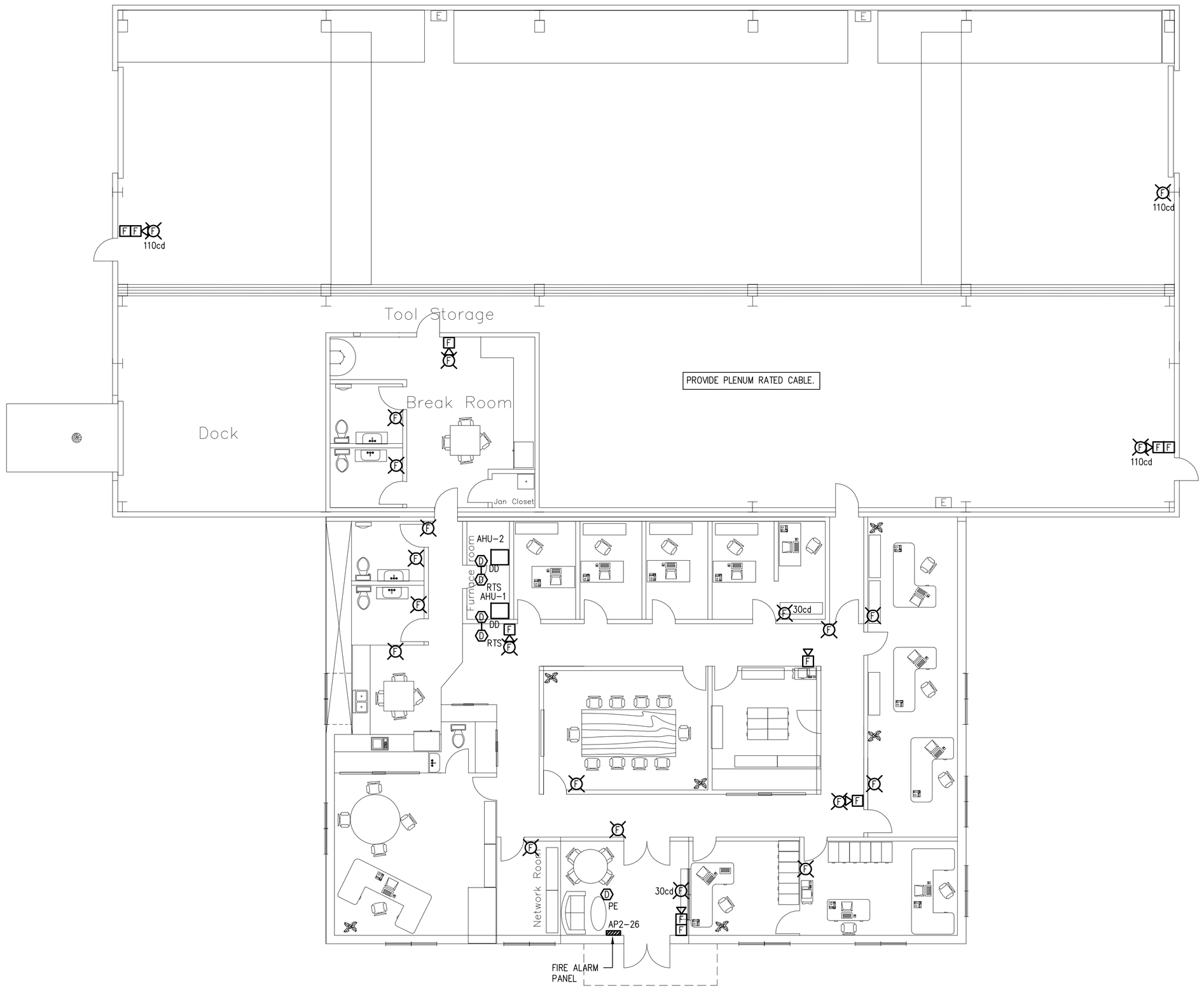


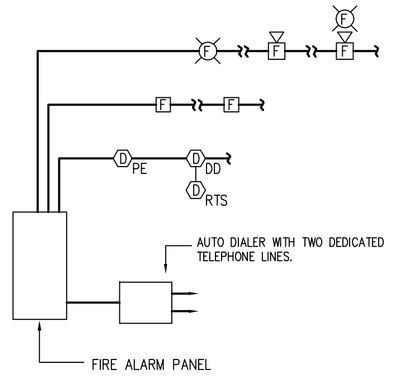
GENERAL FIRE ALARM SYSTEM NOTES

1. FIRE ALARM SYSTEM EQUIPMENT & INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEW JERSEY STATE BUILDING AND FIRE CODE. REFER TO THE ARCHITECTS DRAWINGS FOR THE BUILDING CLASSIFICATIONS.
2. FIRE ALARM SYSTEM SHALL BE INSTALLED BY A NICET CERTIFIED FIRE ALARM INSTALLER. FIRE ALARM SYSTEM SHALL BE U.L., N.F.P.A., F.M. AND LOCALLY APPROVED. THE SYSTEM SHALL COMPLY WITH THE ABOVE MENTIONED BUILDING CODE, AMERICAN DISABILITY ACT (ADA) AND ALL OTHER APPLICABLE STATE AND LOCAL CODES & REGULATIONS.
3. THE FIRE ALARM CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE EXACT NUMBER AND SIZE OF ALL SYSTEM WIRING. ALL FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
4. THE FIRE ALARM RISER DIAGRAM IS DIAGRAMMATIC AND SERVES TO INDICATE THE ALARM DEVICE INTERCONNECTIONS AS CLEARLY AS POSSIBLE. IT DOES NOT SHOW QUANTITY OF DEVICES, ROUTING OR OFFSETS OF INTERCONNECTIONS OR QUANTITY. THE CONTRACTOR SHALL DETERMINE DEVICE LOCATIONS FROM THE DRAWING AND SELECT OPTIMUM ROUTING. PROVIDE OFFSETS AS MAY BE REQUIRED.
5. ALL JUNCTION BOXES ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.
6. SEE FLOOR PLANS FOR LOCATIONS OF ALL DEVICES.
7. DEVICE MOUNTING HEIGHT SHALL COMPLY WITH ALL ADA AND NFPA REQUIREMENTS.
8. THE FIRE ALARM PANEL SHALL NOTIFY THE LOCAL FIRE STATION HAVING JURISDICTION AND/OR CENTRAL MONITORING STATION. THE INSTALLATION CONTRACTOR SHALL COORDINATE WITH THE LOCAL INSPECTOR FOR AN AUTO DIALER APPROVED LOCAL STATION.
9. THE FIRE ALARM INSTALLER SHALL GUARANTEE ALL WORK, MATERIAL, AND EQUIPMENT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF EQUIPMENT TURN OVER TO THE OWNER.
10. THE FIRE ALARM INSTALLER SHALL FURNISH AND INSTALL A COMPLETE FIRE ALARM SYSTEM INCLUDING ALL PANELS, WIRING, ASSOCIATED BOXES, CONDUITS, FITTINGS, CONNECTORS AND ALL NECESSARY APPLIANCES FOR AN APPROVED FIRE ALARM INSTALLATION.
11. ALL CONDUCTORS SHALL BE MINIMUM #14 THWN SOLID COPPER 90 DEGREES C. FPLP CABLE SHALL HAVE A MINIMUM RATING OF 150°C.
12. ALL 120V SUPPLY POWER CONDUCTORS TO THE FIRE COMMAND STATION AND/OR FIRE ALARM CONTROL UNIT AND/OR TO OUTLYING CONTROL CABINETS, SHALL CONTAIN A GREEN INSULATED GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH THE APPLICABLE ELECTRICAL CODE WITH A MINIMUM OF #10 AWG.
13. THE FIRE ALARM INSTALLER SHALL SUBMIT ALL BATTERY CALCULATIONS, EQUIPMENT SPECIFICATIONS, NUMBER OF DEVICES, VOLTAGE DROP CALCULATIONS AND ROUTING OF CABLES DURING APPLICATION FOR PERMIT SUBMISSION. THE FIRE ALARM INSTALLER SHALL BE STATE APPROVED AND SHALL ATTEND ALL INSPECTIONS.
14. ALL STROBES SHALL BE SYNCHRONIZED TYPE.

FIRE ALARM SEQUENCE OF OPERATIONS

ACTIVATION OF MANUAL PULL STATION	ACTIVATION OF AREA SMOKE DETECTOR	ACTIVATION OF DUCT SMOKE DETECTOR	TROUBLE CONDITION AT PANEL	NOTES:
				1. FIRE DEPARTMENT AND CENTRAL OFFICE COMPANY TO RECEIVE SEPARATE & DISTINCT SIGNALS. a) MANUAL ALARM b) AUTOMATIC ALARM (ie., SMOKE & DUCT DETECTORS.) c) TROUBLE & SUPERVISORY SIGNAL 2. ALL FANS TO BE MANUALLY RESTARTED. AUTOMATIC RESTART IS NOT PERMITTED 3. ALL SIGNALS TO FIRE ALARM PANEL TO BE LOCATED BY ENTRANCE. FINAL LOCATION TO BE DETERMINED BY THE FIRE MARSHAL.
X	X	X	X	ACTIVATES ZONE ANNUNCIATION ON PANEL AND L.C.D.
X	X	X		ACTIVATES AUDIO DEVICES
X	X	X		ACTIVATES STROBE LIGHTS THROUGHOUT
X	X	X	X	TRANSMITS SIGNAL TO CENTRAL OFFICE COMPANY
X	X	X		ACTIVATES RELAY TO SHUT OFF AC UNITS, AHU'S AND FANS. COORDINATE WITH THE LOCAL FIRE MARSHALL IF ALL AC UNITS, AHU'S AND FANS NEED TO SHUT DOWN IF ONE DUCT DETECTOR IS ACTIVATED. SYSTEM SHALL BE CAPABLE OF THIS FEATURE.

* SEQUENCE OF OPERATION MUST COMPLY WITH LOCAL FIRE MARSHAL REQUIREMENTS.



FIRE ALARM RISER AND NOTES
SCALE: NONE

no.	by	description	date
–	–	Issued For Permit & Construction	6/03/09
–	–	Issued For Client Review	3/24/09

revisions

New Shop & Office Building for Shupper-Brickle Equipment Co.
11 Burnt Tavern Road
Millstone Township, NJ 08535
Block: 57
Lot: 14.01

BRIAN D. TANNENHAUS

NJ PROFESSIONAL ENGINEER
NO. GE 45801

DATE: June 3, 2009

BD engineering

NJ CERTIFICATE OF AUTHORIZATION – 24GA28116100
BD Engineering, LLC 732-886-5432
1825 Swarthmore Ave. Lakewood, NJ 08701

Project No. 080056

DRAWN BY:	CHECKED BY:	SCALE:
LEF	BT	1/8"=1'0"

DRAWING TITLE

FIRE ALARM PLAN, RISER AND NOTES

DRAWING NO.

FA1.1