

three inches = one foot
one and one half inch = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot

A
B
C
D
E
F

FIRE ALARM SYMBOL LEGEND			
	ADDRESSABLE FIRE ALARM CONTROL PANEL		MASTER FIRE ALARM CONTROL PANEL
	REMOTE LCD ANNUNCIATOR PANEL		FIRE FIGHTERS COMMAND STATION
	FIRE ALARM COMMUNICATOR (DACT)		FIRE ALARM TERMINAL CABINET
	DETECTOR, HEAT, SUB TEXT = M RT = COMBINATION RIS = RISE RC = RATE COMPENSATION R = RATE OF		FIELD CHARGING POWER SUPPLY
	DETECTOR, LETTER INDICATES AS FOLLOWS: SUB TEXT = A = AUDIBLE BASE H = HEAT SMOKE P = PHOTOELECTRIC SMOKE I = IONIZATION AND HEAT SMOKE PH = PHOTOELECTRIC AND HEAT SMOKE IH = IONIZATION, PHOTOELECTRIC, AND HEAT		END OF LINE SUPERVISORY DEVICE
	DETECTOR, SMOKE, FOR DUCT S-SUPPLY R-RETURN		STROBE UNIT SYNCHRONIZED WALL MOUNT (XX-CD = CANDELA RATING) C = CEILING MTO WP = WEATHER PROOF WG = WIRE GUARD
	FIRE ALARM MANUAL PULL STATION		COMBO SYNCHRONIZED SPEAKER/STROBE UNIT (XX-CD = CANDELA RATING) C = CEILING MTO WP = WEATHER PROOF WG = WIRE GUARD
	MAGNETIC DOOR HOLD OPEN DEVICE		SPEAKER UNIT C = CEILING MTO WP = WEATHER PROOF WG = WIRE GUARD
	ADDRESSABLE MONITOR MODULE		ADDRESSABLE CONTROL MODULE
	CONNECTION TO SPRINKLER TAMPER AND/OR LOW AIR SWITCH		CONNECTION TO SPRINKLER WATER, FLOW SWITCH
NOTE: THIS IS A STANDARD SYMBOL LIST. ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.			

STANDARD MOUNTING HEIGHTS		
CEILING		SMOKE AND HEAT DETECTORS, 360° SECURITY MOTION DETECTORS, CCTV SURVEILLANCE CAMERAS, PUBLIC ADDRESS AND VOICE EVACUATION SPEAKERS, WIRELESS ACCESS POINTS, TV AND LCD PROJECTOR JACKS.
8' A.F.G.		EXTERIOR VISUAL AND AUDIO/VISUAL FIRE ALARM NOTIFICATION DEVICES, EXTERIOR PUBLIC ADDRESS SPEAKERS.
7'-0" A.F.F.		VISUAL AND AUDIO/VISUAL FIRE ALARM NOTIFICATION DEVICES, WALL MOUNTED SECURITY MOTION DETECTORS (CENTER OF DEVICE)
6' ABOVE DOOR JAMB		REQUEST TO EXIT MOTION DETECTORS
5'-6" A.F.F.		TOP OF PLYWOOD TELEPHONE BACKBOARD
5'-4" A.F.F.		FIRE ALARM ANNUNCIATOR PANELS, FIRE FIGHTER CONTROL STATIONS, SECURITY ANNUNCIATOR PANELS
4'-8" A.F.G. MAX		PEDESTAL MOUNT INTERCOM, PEDESTAL MOUNT CARD READER
4'-0" A.F.F.		INTERCOM STATIONS, FIRE FIGHTER TELEPHONE JACKS, FIRE ALARM MANUAL STATIONS, CARD READERS, MANUAL REQUEST TO EXIT DEVICES, WALL MOUNTED DURESS ALARM STATIONS, RESCUE ASSISTANCE PANELS, LCD KEYPADS (CENTER OF DEVICE)
UNDER COUNTER OR DESK		DURESS ALARM BUTTONS, DOOR RELEASE BUTTONS
1'-6" A.F.F.		DATA/TELEPHONE JACKS, LOW TELEVISION JACKS, MICROPHONE JACKS
0'-0"		IN FLOOR JUNCTION BOXES FLUSH TO FINISHED FLOOR (FF) (DATA, TELEPHONE, MICROPHONE, MEDIA)
1. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSING.		
2. THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS.		
3. COORDINATE THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES WITH PROFESSIONAL AND ALL AFFECTED TRADES PRIOR TO INSTALLATION. DOCUMENT ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES AT THE TIME OF SHOP DRAWING SUBMISSION.		

GENERAL FIRE ALARM SYSTEM NOTES:

- THE FOLLOWING GENERAL NOTES AS LISTED BELOW SHALL APPLY TO ALL FIRE ALARM SYSTEM SCOPES OF WORK AS INDICATED ON THE EF SERIES DRAWINGS.
1. ALL EQUIPMENT SYMBOLS ARE SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE TO THEIR INTENDED LOCATION. CONTRACTOR SHALL COORDINATE IN THE FIELD THE PROPER INSTALLATION OF ALL EQUIPMENT, DEVICES, CONTROLS AND CABLING. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.
2. DRAWINGS FOR THIS WORK ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE EXTENT, GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS ACCESS PANELS, CONDUITS, CABINET SIZES, PENETRATION SLEEVES, PULL BOXES, BACKBOXES AND JUNCTION BOXES MAY NOT BE SHOWN. INCLUDE ALL ITEMS WHERE REQUIRED BY CODE, MANUFACTURER AND RELATED SPECIFICATION SECTIONS FOR THE PROPER INSTALLATION OF ALL WORK.
3. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 760 OF THE 2018 NATIONAL ELECTRIC CODE. ALL FIRE ALARM CABLES MUST BE MARKED TYPE FPL (NON PLENUM) OR FPLP (PLENUM) AND PROVIDED IN ACCORDANCE WITH THE CABLING REQUIREMENTS SPECIFIED BY THE CONTRACT DOCUMENTS.
4. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL COMPLY WITH ALL ANSI 117, NFPA 72 AND IBC REQUIREMENTS. AT THE MINIMUM INSTALL ALL DEVICES AS FOLLOWS:
MANUAL PULL STATION: 45" A.F.F. TO CENTER OF STROBE LENS OR 8" BELOW CEILING TO CENTER OF STROBE LENS.
VISUAL: 7'-0" A.F.F. TO CENTER OF STROBE LENS OR 8" BELOW CEILING TO CENTER OF STROBE LENS.
EMERGENCY TELEPHONE JACKS: 48" A.F.F. TO CENTER
5. COORDINATE WITH ALL TRADES ALL CONDITIONS RELATED TO THE INSTALLATION OF ALL DEVICES. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE TRADE ALL INSTALLATION REQUIREMENTS IMPACTING THE PLACEMENT OF ALL SYSTEM COMPONENTS TO THE SATISFACTION OF ALL CONCERNED TRADES.
6. PROVIDE ALL EQUIPMENT CLEARANCES IN ACCORDANCE WITH NFPA 70 REQUIREMENTS, ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS FOR MAINTENANCE AND SERVICE AROUND ALL EQUIPMENT, COMPONENTS AND/OR CABLE TERMINATIONS.
7. PROVIDE APPROVED EARTH GROUND AT FIRE ALARM CONTROL PANEL. CHASSIS: A CONDUIT GROUNDING TO BUILDING STEEL SHALL NOT BE CONSIDERED A ACCEPTABLE METHODOLOGY FOR GROUNDING OF FIRE ALARM CONTROL PANEL.
8. ALL SYSTEM WIRING AND EQUIPMENT INSTALLATIONS SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AND BY ALL IEEE, EIA, NEC AND MANUFACTURERS REQUIREMENTS. WIRING SHALL COMPLY WITH ALL STATE AND LOCAL ELECTRICAL CODES. ALL WIRING SHALL TEST FREE FROM ALL GROUNDS, SHORTS AND EMI.
9. ALL SMOKE AND HEAT DETECTORS SHALL BE MOUNTED TO FINISHED CEILING AND/OR CEILING, UNLESS NOTED OTHERWISE. DETECTORS SHALL NOT BE INSTALLED ON BOTTOM OF OPEN WEB JOISTS OR ON BEAMS EXCEEDING 12 INCHES DEPTH FROM FINISHED CEILING OR DECK. REFER TO NFPA 72 FOR ALL INITIATING DEVICE INSTALLATION REQUIREMENTS. PROVIDE DETECTORS IN SUFFICIENT QUANTITY TO COMPLY WITH ALL NFPA 72 REQUIREMENTS BASED ON CEILING CONDITIONS AND PROTECTED SPACE REQUIREMENTS.
10. PROTECTIVE ANTI-ULST COVERS SHALL BE INSTALLED AND MAINTAINED ON ALL SYSTEM SMOKE DETECTORS UNTIL FINAL ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION.
11. SMOKE DETECTORS SHALL NOT BE INSTALLED LESS THAN 3 FEET FROM ANY HVAC SUPPLY OR RETURN AIR REGISTER AND A MINIMUM OF 1 FOOT AWAY FROM ALL LIGHTING FIXTURES.
12. WHERE EQUIPMENT AND/OR JUNCTION BOXES ARE INSTALLED ABOVE FINISHED CEILING, THE CONTRACTOR SHALL PROVIDE ACCESS HATCHES LISTED FOR THE INTENDED APPLICATION. ACCESS HATCHES SHALL BE LOCATED SO THAT SERVICE ACCESS TO THE EQUIPMENT AND/OR JUNCTION BOXES IS UNIMPEDED.
13. THE FIRE ALARM SYSTEM CABLING SHALL BE INSTALLED IN DEDICATED CONDUITS. ALL CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 AND THE CONTRACT DOCUMENTS. ALL CONDUITS SHALL BE SIZED IN ACCORDANCE WITH NFPA 70 AND SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
14. ALL CONDUITS/RACEWAYS SHALL BE INSTALLED IN A MANNER THAT PREVENTS TAMPERING OR REMOVAL WHEN INSTALLED IN AREAS EXPOSED TO THE GENERAL POPULATION. PROVIDE TAMPER-RESISTANT INSTALLATION UTILIZING TORX WITH PECO SECURITY FASTENING DEVICES FOR ALL CONDUITS/RACEWAYS, EQUIPMENT, DEVICES AND APPURTENANCES IN ALL AREAS ACCESSIBLE TO THE GENERAL POPULATION AND/OR AREAS SUBJECT TO TAMPERING OR VANDALISM. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
15. PROVIDE APPROVED EARTH GROUND AT FIRE ALARM CONTROL PANEL. CHASSIS: A CONDUIT GROUNDING TO BUILDING STEEL SHALL NOT BE CONSIDERED A ACCEPTABLE METHODOLOGY FOR GROUNDING OF FIRE ALARM CONTROL PANEL.
16. ALL SYSTEM WIRING AND EQUIPMENT INSTALLATIONS SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AND BY ALL IEEE, EIA, NEC AND MANUFACTURERS REQUIREMENTS. WIRING SHALL COMPLY WITH ALL STATE AND LOCAL ELECTRICAL CODES. ALL WIRING SHALL TEST FREE FROM ALL GROUNDS, SHORTS AND EMI.
17. NO A.C. CARRYING CONDUCTORS ARE PERMITTED TO SHARE CONDUITS WITH ANY FIRE ALARM INITIATING AND/OR NOTIFICATION CIRCUITS.
18. ALL AC ELECTRICAL CIRCUITS FEEDING THE FIRE ALARM CONTROL EQUIPMENT SHALL BE EQUIPPED WITH DEDICATED CIRCUIT BREAKER LOCKOUT DEVICE IN ACCORDANCE WITH NFPA 72.
19. THE CONTRACTOR SHALL METER ALL WIRES AND CIRCUITS TO ENSURE THEY ARE FREE OF ANY GROUNDS AND SHORTS PRIOR TO COMMISSIONING OF THE SYSTEM.
20. ALL AUXILIARY ALARM RELAYS MUST BE INSTALLED WITHIN 3 FEET OF THE EQUIPMENT TO BE CONTROLLED IN ACCORDANCE WITH ALL NFPA 72 REQUIREMENTS.
21. ALL FIRE ALARM DEVICES AND EQUIPMENT SHALL BE LABELED UNIQUE IDENTIFICATION NUMBER. ALL NUMBERS SHALL CORRESPOND WITH NUMBERING SEQUENCE AS SUBMITTED ON THE PROJECT SHOP DRAWINGS. LABELS TO BE SIMILAR TO BROTHER P-1000 BLACK LETTERING ON WHITE BACKGROUND, SELF-ADHESIVE TAPE. ALL DEVICE LABELS SHALL BE INSTALLED PRIOR TO SYSTEM CHECKOUT.
22. ALL PENETRATIONS OF WALLS AND FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE ASTM AND NFPA. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION. INSTALLATION OF FIRE-STOPPS SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES.
23. REFER TO ALL RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.
24. ALL EQUIPMENT ENCLOSURES LOCATED OUTSIDE OR IN ALL AREAS WITH HIGH MOISTURE OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL BE NEMA 4X ENCLOSURES AND RATED FOR THAT APPLICATION.
25. ALL EQUIPMENT EXPOSED TO THE ENVIRONMENT OR INSTALLED IN PROXIMITY TO AREAS WITH HIGH MOISTURE, OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL BE PROVIDED WITH ENCLOSURES AND OR BACKBOXES RATED FOR THE ENVIRONMENTAL CONDITIONS.
26. THE STROBE INTENSITY OF ALL VISUAL NOTIFICATION APPLIANCES SHALL BE IN ACCORDANCE WITH NFPA 72 AND UL 1971. STROBE CANDELA RATINGS SHALL BE PROVIDED IN ACCORDANCE WITH DEVICE LOCATIONS AND SHALL CONFORM TO ALL ICS/ANSI 117 AND NFPA 72 INSTALLATION REQUIREMENTS. CONTRACTOR SHALL PROVIDE THE REQUIRED CANDELA POWER AND LOCATE ALL VISUAL NOTIFICATION APPLIANCES AS REQUIRED TO MEET THE REQUIREMENTS OF ALL REFERENCED CODES AND STANDARDS.

NFPA 72 PERFORMANCE CRITERIA

ALARM CAPABILITY DURING ABNORMAL CONDITIONS

TROUBLE INDICATION AT PROTECTED PREMISES

ABNORMAL CONDITION	S	6
SINGLE OPEN	X	
SINGLE GROUND	X	X
WIRE-TO-WIRE SHORT	X	

ALARM CAPABILITY DURING ABNORMAL CONDITIONS

TROUBLE INDICATION AT PROTECTED PREMISES

ALARM

ABNORMAL CONDITION

SINGLE OPEN	X	
SINGLE GROUND	X	R
WIRE-TO-WIRE SHORT	X	
WIRE-TO-WIRE SHORT & OPEN	X	
WIRE-TO-WIRE SHORT & GROUND	X	
OPEN & GROUND	X	
LOSS OF CARRIER (IF USED)/ CHANNEL INTERFACE	X	

NOTIFICATION APPLIANCE CIRCUITS

NFPA - CLASS B - STYLE Y

SIGNALING LINE CIRCUITS (SLC)

NFPA - CLASS B - STYLE 4

NOTIFICATION CIRCUITS NOTE:

THE ALARM SIGNAL DEVICES DO NOT HAVE TO BE WIRED SEQUENTIALLY BUT THEY

- MUST BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS
- MUST HAVE AN EOL
- SHALL NOT BE T-TAPPED
- MUST BE IN CONDUIT

INITIATION LOOP (SLC) NOTE:

THE ALARM INITIATION DEVICES DO NOT HAVE TO BE WIRED SEQUENTIALLY BUT THEY

- MUST BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS
- DO NOT HAVE AN EOL
- MAY BE T-TAPPED
- MAY HAVE UNIQUE ADDRESSES
- MUST BE IN CONDUIT


ADDRESSABLE FIRE ALARM SYSTEM CABLE TYPE				
NEC DESIGNATION *	DESCRIPTION	APPLICATION	CONDUCTOR MATERIAL	ACCEPTABLE FOR PROJECT
FPLP	FIRE, POWER LIMITED, PLENUM	SUITABLE FOR USE IN DUCTS, PLENUMS, AND OTHER SPACE USED FOR ENVIRONMENTAL AIR.	COPPER	NO
FPLR	FIRE, POWER LIMITED, RISER	SUITABLE FOR USE IN A VERTICAL RUN IN A SHAFT OR WHEN A WIRE RUN PASSES FROM FLOOR TO FLOOR.	COPPER	NO
FPL	FIRE, POWER LIMITED	SUITABLE FOR GENERAL-PURPOSE FIRE ALARM USE IN CONDUITS, WITH THE EXCEPTIONS OF THE ABOVE APPLICATIONS.	COPPER	YES
* CABLE TYPES ARE LISTED IN DESCENDING ORDER OF FIRE-RESISTANT RATING, PER NFPA 70, TABLE 760-7(h)				

ADDRESSABLE FIRE ALARM SYSTEM WIRE SCHEDULE										
DESCRIPTION	TYPICAL DEVICES	NEC CLASSIFICATION	CABLE	TWISTED	No. OF CONDUCTORS	SHIELDED	NFPA CLASS	NFPA STYLE	IN CONDUIT	NOTES
ADDRESSABLE INITIATING LOOP (SLC)	MANUAL STATIONS, SMOKE/HEAT DETECTORS, INTERFACE MODULES	POWER-LIMITED	18 AWG	NO	2	PER MANUF.	B	4	YES	T-TAPPING PERMITTED, BUT DISCOURAGED. NO EOL'S.
NOTIFICATION APPLIANCE CIRCUIT (NAC)	HORNS, STROBES, BELLS	POWER-LIMITED	14 AWG	YES	2	PER MANUF.	B	Y	YES	NO T-TAPPING, CIRCUITS FROM FACPS: REQUIRED EOL, CIRCUITS FROM FCPS: REQUIRED EOL.
NOTIFICATION APPLIANCE CIRCUIT (NAC)	SPEAKERS	POWER-LIMITED	16 AWG	YES	2	YES	B	Y	YES	NO T-TAPPING, CIRCUITS FROM FACPS: REQUIRED EOL, CIRCUITS FROM AMP/FIERS/DG/PS: REQUIRED EOL.
24 VDC POWER	REMOTE ANNUNCIATORS, CONTROL MODULES, BEAM DETECTORS	POWER-LIMITED	14 AWG	NO	2	NO	B	N/A	YES	T-TAPPING PERMITTED.
PRINTER CABLE	PRINTER	POWER-LIMITED	-	YES	-	NO	N/A	N/A	YES	MAX. 25FT CABLE RUN (GREATER THAN 25FT IN LENGTH CONTRACTOR SHALL PROVIDE APPROPRIATE MODEMS)
TRANSPONDER NETWORK (SLC)	COMMUNICATION BETWEEN FACPS AND TRANSPONDERS	OPTICAL	FIBER	YES	2	N/A	A	7a	YES	NO T-TAPPING, 5000 FT MAX CABLE RUN.
CONVENTIONAL INITIATING LOOP (ICL)	CONVENTIONAL HEAT DETECTORS, BEAM DETECTORS	POWER-LIMITED	14 AWG	NO	2	YES	B	Y	YES	NO TAPPING, MANUFACTURERS REQUIRED EOL.

ABBREVIATIONS			
above finished floor	AFF	far end crossstalk	FEXT
above finished grade	AFG	fire alarm	FA
adjustable	ACC	fire alarm annunciator panel	FAAP
alternating current	AC	fire alarm control panel	FACP
american wire gauge	AWG	fire alarm graphic annunciator panel	FAGP
ampere	AMP	fixture	FXT
approximately	APPROX	floor	FL
asymmetric	ASY	fluorescent	FLUOR
audio/visual/crossstalk ratio	ACR	footcandles	FT
automatic transfer switch	ATS	full load ampere	FLA
battery	BATT	full voltage non-reversing	FVNR
below finished ceiling	BFC	general contractor	GC
black	BLK	generator	GEN
bracket	BRKT	ground	GND/G
breaker	BKR	ground fault interrupter	GFI
cabinet	CAB	hand hole	HH
cable television	CATV	heating ventilating	HVAC
ceiling	CLS	air conditioning	HZ
circuit	CIRCKT	high intensity discharge	HID
circuit breaker	CB	high power factor	HPF
clear	CLR	high voltage	HV
closed circuit television	CCTV	horsepower	HP
column	COL	incandescent	INCAN
communication	COMM	isolated ground	IG
conduit	C	junction box	JB
cool white	CW	kilovar (reactance)	KVAR
copper	CU	kilovolt ampere	KVA
current limiting fuse	CLF	kilowatt	KW
current transformer	CT	kilowatt hour meter	KWH
dedicated	DED	inverter power supply	IPS
diameter	DIA	light	LT
direct current	DC	lighting	LTG
disconnected	DISC	lighting arrester	LA
distribution panel	DP	low voltage	LV
double pole double-throw	DPDT	light emitting diode	LED
downtight	DLT	main circuit breaker	MCB
drawing	DWG	main distribution panel	MDP
dual element	DE	main lugs only	MLO
each	EA	manhole	MH
electric water cooler	EWC	manual transfer switch	MTS
electrical	ELEC	manufacturer	MFR
electrical contractor	EC	master antenna television	MATV
electrically operated	EO	mechanical contractor	MC
elevator	ELEV	medium voltage	MV
emergency	EMERG	metal halide	MH
energy saving ballast	ESB	metal-clad cable	MCC
equipment	EQUIP	miscellaneous	MISC
exhaust fan	EF	motor circuit protector	MCP
explosion proof	XP	motor control center	MCC
electronics industry association	EIA	motor operated damper	MOD
		mounted	MTD
		mounting height	MTGHT
		millimeter	MM
		millivolt	MV
		unshielded twisted pair	UTP
		underwriter's Laboratories	UL
		uninterruptible power supply	UPS
		unless otherwise noted	UNON
		vapor proof	VP
		volt	V
		voltmeter	VM
		warm white	WW
		weatherproof	WP
		with	WI
		within	WI
		without	W/O



FULLY SPRINKLERED
ISSUED FOR CONSTRUCTION

		CONSULTANTS:	SEAL	ARCHITECTS/ENGINEERS:	Drawing Title FIRE ALARM SYMBOLS AND NOTES	Project Title: ERIE VA PHARMACY IV PREP ROOM	Project Number 562-13-105		Office of Construction and Facilities Management
							Building Number		
							Drawing Number EF001		
							Dwg. of 9		
				<div><div>A E works</div><div>6587 Hamilton Avenue Pittsburgh, Pennsylvania 15206 Ph: 412.287.7333 Fax: 412.287.7334 www.ae-works.com</div><div>AE Works Project Number: 13020</div></div>	Approved: Project Director	Location: 135 EAST 38TH STREET, ERIE, PA 16504			
		Date: January 17, 2014				Checked: Checker	Drawn: Author		
Revisions:	Date								