

TOWN OF TRUMBULL



MARY J. SCHERLACH COUNSELING CENTER RENOVATIONS & ALTERATIONS 121 OLD MINE ROAD TRUMBULL, CT



THOMAS A. TORRENTI, P.C.

STRUCTURAL ENGINEER

316 DOGBURN LANE
P.O. BOX 1153
ORANGE, CT 06477
TEL: (203) 891-9933
FAX: (203) 891-8299



ANTINOZZI ASSOCIATES

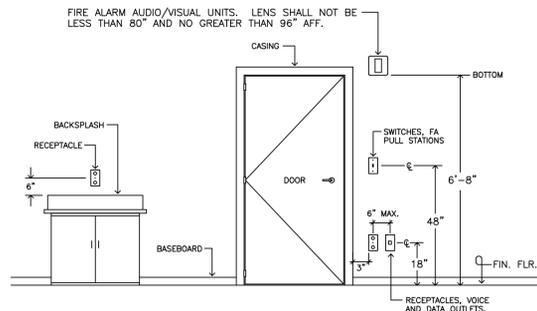
ARCHITECTURE & INTERIORS

271 Fairfield Avenue
Bridgeport, Connecticut 06604
TEL (203) 377-1300 FAX (203) 378-3002
www.antinozzi.com

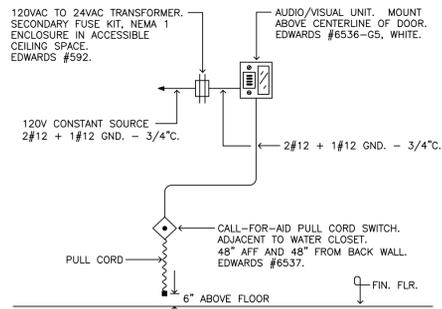
GENERAL DRAFTING &
DESIGN

M.E.P. ENGINEER

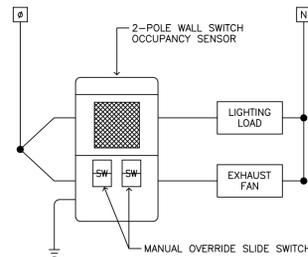
140 WASHINGTON AVE. 3RD FL.
NORTH HAVEN, CT 06473
TEL: (203) 239-6818
FAX: (203) 239-7275



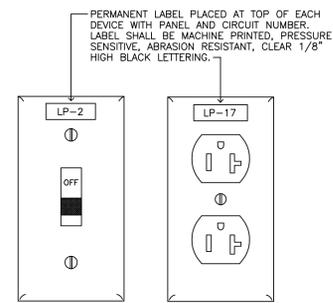
TYPICAL DEVICE MOUNTING DETAIL
NTS



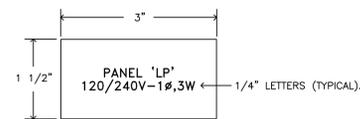
CALL-FOR-AID SYSTEM DETAIL
NTS



OCCUPANCY SENSOR WIRING DETAIL
NTS

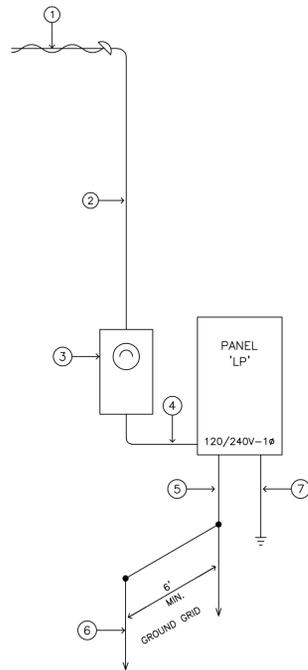


DEVICE PLATE LABELING DETAIL
NTS



- REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
- NAMEPLATE TO BE 1/16" BLACK PLASTIC WITH WHITE CENTER LAMINATION. FACE TO BE BLACK, ENGRAVED LETTERS TO BE WHITE.
- SECURE NAMEPLATE TO SURFACES WITH ADHESIVES.

TYPICAL NAMEPLATE DETAIL
NTS



ELECTRIC SERVICE RISER DIAGRAM
NTS

LEGEND

- NEW AERIAL SERVICE CONDUCTORS BY UNITED ILLUMINATING COMPANY.
- 3 #3/0 - 2" RGS CONDUIT MAST WITH WEATHERHEAD.
- 200A METER SOCKET WITH UTILITY REVENUE METER PER UNITED ILLUMINATING COMPANY SPECIFICATIONS.
- 3 #3/0 - 2" CONDUIT.
- 1 #4 - 3/4" CONDUIT.
- 5/8" DIA. x 8' COPPERCLAD GROUND RODS (2).
- 1 #4 Cu COLD WATER SERVICE GROUND.

Name: LP		10K AIC									
Voltage: 120/240V-1Ø, 3W		MOUNTING: SURFACE									
Mains: 200A-2P MCB											
WIRE NO	WIRE SIZE	LOAD DESCRIPTION	LOAD VA	BREAKER P	AMP	PHASE VA	BREAKER P	AMP	LOAD VA	LOAD DESCRIPTION	WIRE NO
1	12	LTG - BASEMENT	500	1	20	1300	20	1	800	REC - BASEMENT	GFCI 12 2
3	12	LTG - FIRST FLOOR	800	1	20	1300	20	1	500	FURNACE	12 4
5	12	LTG - EXTERIOR	250	1	20	450	20	1	200	TEMPERATURE CONTROL PANEL	12 6
7	12	REC - EXTERIOR	400	1	20	1200	20	1	800	REC - CORR. TLT	12 8
9	12	LTG - FIRST FLOOR	800	1	20	1200	20	1	800	REC - OFFICE 106	12 10
11	12	REC - RECEPTION 101	1000	1	20	1800	20	1	800	REC - OFFICE 106	12 12
13	12	REC - REFRIGERATOR	500	1	20	1100	20	1	600	REC - WORKROOM 102	12 14
15	12	REC - WORK ROOM COUNTER	1200	1	20	2200	20	1	1000	REC - GROUP RM	12 16
17	12	REC - WORK ROOM COUNTER	1200	1	20	1700	20	1	500	LTG - SECOND FLOOR	12 18
19	12	REC - WORK ROOM MICROWAVE	1500	1	20	2300	20	1	800	REC - OFFICE 201	12 20
21	12	REC - CORR 200, STORAGE	800	1	20	1800	20	1	1000	REC - OFFICE 203	12 22
23	12	FIRE ALARM CONTROL PANEL	200	1	20	200	20	1		SPARE	24
25	12	SECURITY SYSTEM CONTROL PANEL	200	1	20	200	20	1		SPARE	26
27		SPARE		1	20		20	1		SPARE	28
29		SPARE		1	20		20	1		SPARE	30
31		SPARE		1	20		20	1		SPARE	32
33		SPARE		1	20		20	1		SPARE	34
35		SPARE		1	20		20	1		SPARE	36
37	10	OUTDOOR CONDENSING UNIT	2772	2	30	4022	20	2	1250	HOT WATER HEATER	12 38
39	10		2772			4022			1250		12 40
			7850			8900					

GENERAL NOTES

- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION OF ALL LIGHTING FIXTURES, OUTLETS, SWITCHES, DEVICES, EQUIPMENT, ETC. MUST BE TAKEN FROM FINAL DETAILED ARCHITECTURAL DRAWINGS. SECURE OWNERS APPROVAL OF ALL CHANGES IN LOCATION.
- ALL EXPOSED AND UNDERGROUND EXTERIOR RACEWAYS SHALL BE PVC SCH.40.
- ALL MATERIALS SHALL BE NEW AND UL LISTED AND LABELED.
- ALL RECEPTACLES AND LIGHT SWITCHES SHALL BE WHITE IN COLOR, WHITE THERMOPLASTIC COVER PLATES, UNLESS NOTED OTHERWISE.
- WHERE WIRE SIZES ARE INDICATED ON THE PLANS FOR INDIVIDUAL CIRCUITS, THE INDICATED SIZE SHALL APPLY TO THE COMPLETE CIRCUIT UNLESS OTHERWISE NOTED. ALL BRANCH CIRCUIT WIRING SHALL BE NEW, EXISTING WIRING SHALL NOT BE REUSED AND SHALL BE COMPLETELY REMOVED.
- SEE MECHANICAL PLANS AND VERIFY WITH MANUFACTURER FOR EXACT LOCATIONS OF ALL MOTORS AND OTHER EQUIPMENT BEFORE ROUGH-IN.
- CONDUIT RUNS ARE SHOWN SCHEMATICALLY. BUILDING CONDITIONS WILL DETERMINE ACTUAL CONDUIT RUN.
- ALL BOXES TO BE PROPERLY AND SECURELY MOUNTED TO PROVIDE A SOLID BACKING FOR DEVICES, EQUIPMENT, ETC.
- HOMERUNS AND BRANCH CIRCUIT WIRING:

LENGTH	HOMERUN	CIRCUIT
0 TO 50	12 AWG	12 AWG
51 TO 100	10 AWG	10 AWG
101 TO 150	8 AWG	8 AWG

LENGTH	HOMERUN	CIRCUIT
0 TO 100	12 AWG	12 AWG
101 TO 200	10 AWG	10 AWG
201 TO 300	8 AWG	8 AWG

- ALL ELECTRICAL DEVICES ALONG A COMMON WALL SHALL BE INSTALLED IN SEPARATE STUD CAVITIES, 6" MINIMUM SEPARATION. NO BACK TO BACK INSTALLATIONS, FOR SOUND ATTENUATION PURPOSES.
- ALL TELEPHONE AND CATV JACKS, DEVICES, FACEPLATES AND CABLING SHALL BE FURNISHED, INSTALLED AND TERMINATED BY OWNERS VENDORS. ELECTRICAL CONTRACTOR SHALL COORDINATE/COOPERATE WITH VENDOR FOR INSTALLATION OF THESE SYSTEMS DURING CONSTRUCTION.
- BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE SITE AND SURVEY EXISTING CONDITIONS UNDER WHICH HIS WORK WILL BE INSTALLED. ALL NEW EQUIPMENT AND SYSTEMS SHALL BE FULLY OPERATIONAL BEFORE THIS PROJECT IS CONSIDERED COMPLETE.

ABBREVIATIONS

- A AMPERE
- AC ABOVE COUNTER
- ADA AMERICANS WITH DISABILITIES ACT
- AFCI ARC FAULT CIRCUIT INTERRUPTER
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- CATV CABLE TELEVISION
- CB CIRCUIT BREAKER
- CU CONDENSING UNIT
- FL FAN/LIGHT UNIT
- GF GAS FURNACE
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- G, GND GROUND
- HP HORSEPOWER
- KVA KILO-VOLTAMPERE
- KW KILOWATT
- MCA MINIMUM CIRCUIT AMPACITY
- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUGS ONLY
- MOCP MAXIMUM OVERCURRENT PROTECTION
- N NEUTRAL
- NEC NATIONAL ELECTRICAL CODE
- NTS NOT TO SCALE
- OC ON CENTER
- P POLE
- PH, Ø PHASE
- UI UNITED ILLUMINATING COMPANY
- UL UNDERWRITERS LABORATORIES
- UON UNLESS OTHERWISE NOTED
- V VOLT
- VA VOLT-AMPERE
- W WATT
- WH WATER HEATER
- WP WEATHERPROOF

ELECTRICAL SYMBOLS

- A - 4' FLUORESCENT LUMINAIRE WITH TYPE DESIGNATION
- B - SURFACE MOUNTED LIGHTING FIXTURE WITH TYPE DESIGNATION
- D - 2' X 4' FLUORESCENT TROFFER WITH TYPE DESIGNATION
- F - RECESSED DOWNLIGHT WITH TYPE DESIGNATION
- H - WALL MOUNTED LIGHTING FIXTURE WITH TYPE DESIGNATION
- E - SELF-CONTAINED EMERGENCY LIGHTING UNIT WITH TYPE DESIGNATION
- X - EMERGENCY EXIT SIGN WITH TYPE DESIGNATION
- EX - COMBINATION EXIT SIGN/ EMERGENCY EXIT SIGN WITH TYPE DESIGNATION
- S - SINGLE POLE TOGGLE SWITCH, 48" AFF
- S₃ - THREE-WAY TOGGLE SWITCH, 48" AFF
- S₀ - SINGLE POLE WALL SWITCH OCCUPANCY SENSOR, 48" AFF. SENSORSWITCH #WSD
- S₀₀ - TWO POLE WALL SWITCH OCCUPANCY SENSOR, 48" AFF. SENSORSWITCH #WSD-2P
- S_P - SINGLE POLE TOGGLE SWITCH WITH RED PILOT LAMP, 48" AFF
- E - EXISTING DUPLEX RECEPTACLE TO BE REMOVED AND REPLACED WITH NEW DUPLEX RECEPTACLE, 20A Ø 125, AND COVER PLATE
- Ø - DUPLEX RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
- Ø^G - GFCI DUPLEX RECEPTACLE, 18" AFF UNLESS OTHERWISE NOTED
- Ø - DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER
- Ø^G - GFCI DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER
- Ø^{G/WP} - GFCI DUPLEX RECEPTACLE WITH WEATHER-PROOF IN-USE COVER PLATE, MOUNTED 24" ABOVE FINISHED GRADE.
- E - EXISTING COMMUNICATIONS OUTLET TO REMAIN.
- W - NEW VOICE/DATA OUTLET, 18" AFF.
- W - NEW WALL TELEPHONE OUTLET, 60" AFF
- Ø - JUNCTION BOX
- Ø - SAFETY DISCONNECT SWITCH - NEMA 1 ENCLOSURE
- Ø - SAFETY DISCONNECT SWITCH - NEMA 3R ENCLOSURE
- Ø - DOOR CHIME PUSH-BUTTON
- Ø - DOOR CHIME
- Ø - NEW LOAD CENTER
- Ø - HOMERUN TO PANEL 'LP'
- Ø - CONDUIT AND WIRE. CROSS LINES INDICATE NUMBER OF CONDUCTORS. INSULATED GROUND REQUIRED BUT NOT SHOWN.
- Ø - EQUIPMENT CONNECTION
- Ø - NEW 3/4" PLYWOOD EQUIPMENT BACKBOARD
- Ø - MOTOR
- Ø - FIRE MANUAL PULL STATION, 48" AFF
- Ø - EXISTING FIRE ALARM SMOKE DETECTOR
- Ø - NEW/RELOCATED FIRE ALARM SMOKE DETECTOR
- Ø - EXISTING FIRE ALARM HEAT DETECTOR
- Ø - NEW/RELOCATED FIRE ALARM HEAT DETECTOR
- Ø - FIRE ALARM HORN /ADA STROBE UNIT, MOUNTED 80" AFF TO BOTTOM OF UNIT.
- Ø - FIRE ALARM ADA STROBE UNIT, MOUNTED 80" AFF TO BOTTOM OF UNIT.
- Ø - CALL-FOR-AID SYSTEM PULL CORD STATION, 48" AFF. EDWARDS #6537. MOUNTED ADJACENT TO WATER CLOSET, 48" AFF AND 48" FROM BACK WALL.
- Ø - CALL-FOR-AID SYSTEM HORN/STROBE UNIT. EDWARDS #6536-G5, WHITE.
- Ø - CALL-FOR-AID SYSTEM TRANSFORMER. EDWARDS #592.
- Ø - ELECTROMAGNETIC DOOR HOLD OPEN



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ANTINOZZI ASSOCIATES, P.C.
271 Fairfield Avenue
Bridgeport, Connecticut 06604
Tel: (203) 377-1300
Fax: (203) 378-3002

301 Merritt 7
Norwalk, Connecticut 06851
Tel: (203) 956-5460 www.antinozzi.com

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REVISION	DATE	DESCRIPTION

TOWN OF TRUMBULL
MARY J. SCHERLACH
COUNSELING CENTER
RENOVATIONS & ALTERATIONS
121 OLD MINE ROAD
TRUMBULL, CT

DRAWING TITLE:
ELECTRICAL SYMBOLS,
GENERAL NOTES AND
SPECIFICATIONS

SCALE	DRAWN BY	REVIEWED BY
NONE	MMV	MMV

ELECTRICAL DRAWING LIST	
E-1	ELECTRICAL SYMBOLS, GENERAL NOTES AND SPECIFICATIONS
E-2	ELECTRICAL REMOVAL PLANS
E-3	ELECTRICAL FLOOR PLANS
E-4	FIRE ALARM FLOOR PLANS

DATE: 06 OCTOBER 2014
JOB NUMBER: 14046



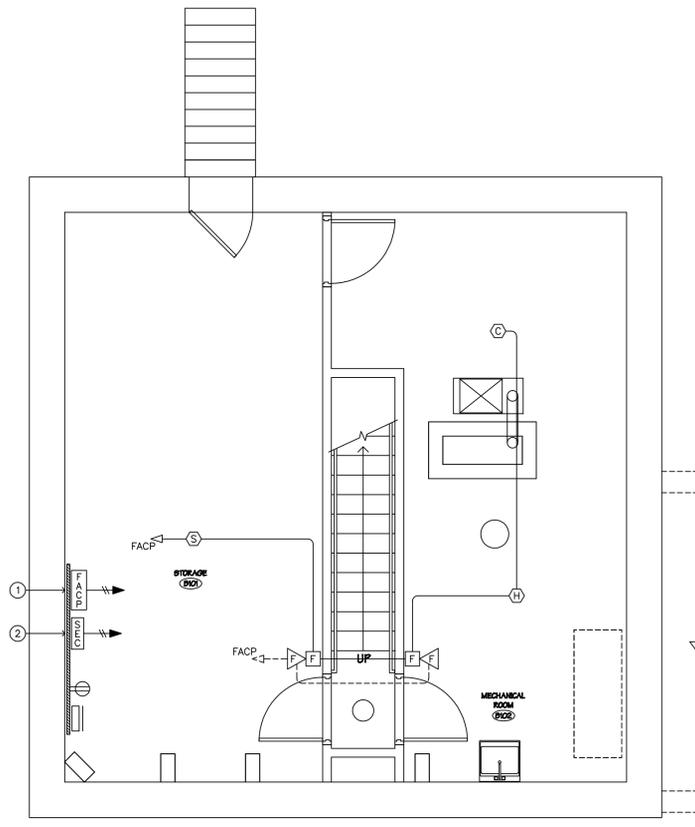
CONSULTANT:



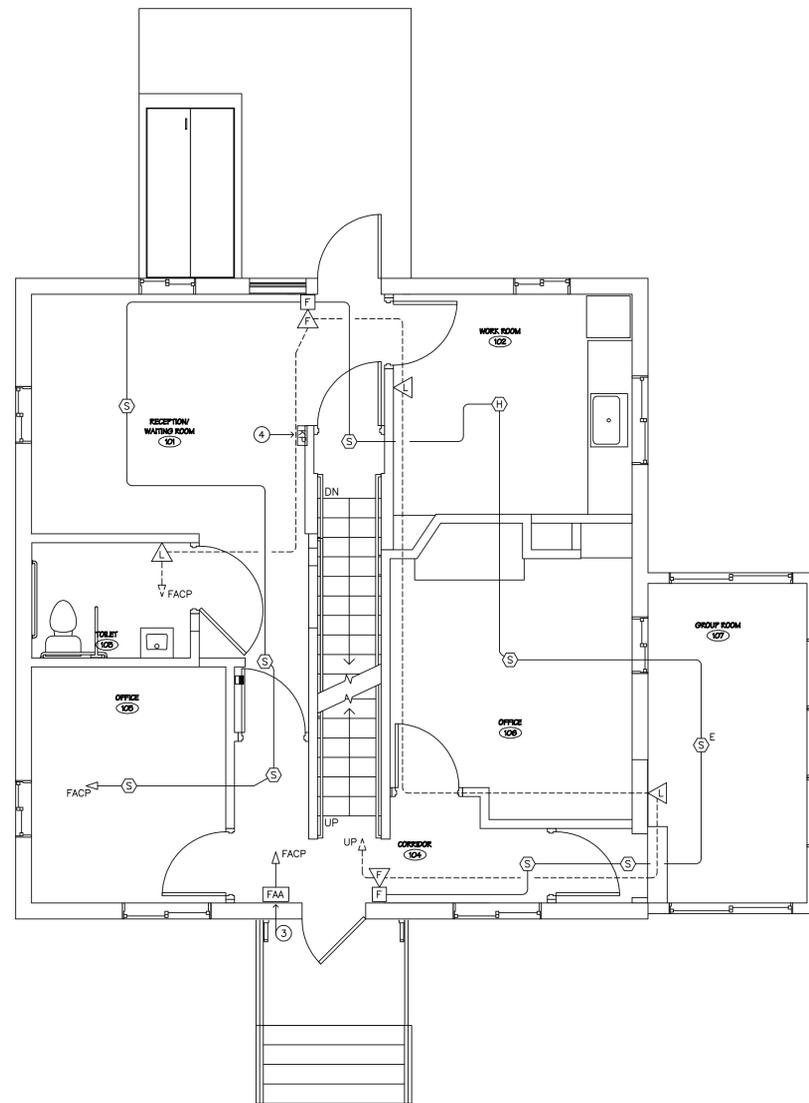
REVISIONS:

NO.	DATE	DESCRIPTION

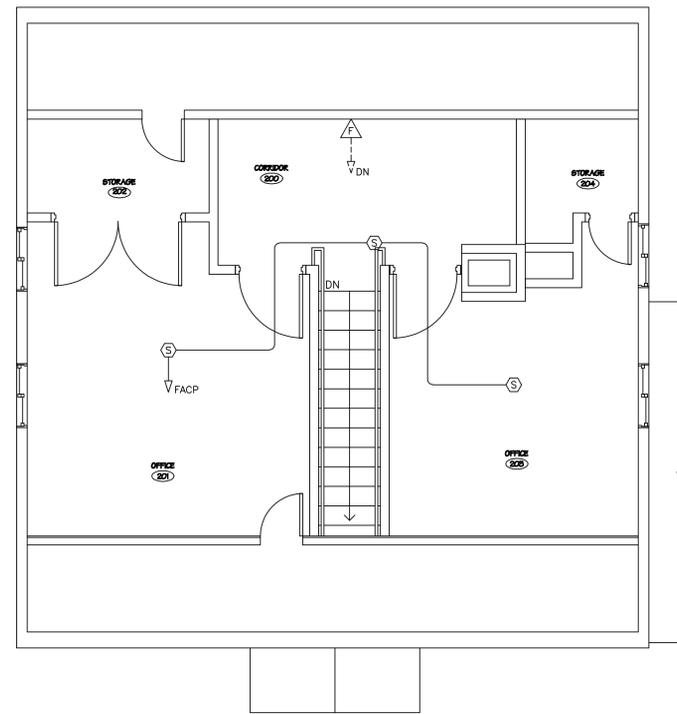
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121 OLD MINE ROAD
TRUMBULL, CT



BASEMENT FIRE ALARM PLAN
SCALE: 1/4" = 1'-0"



FIRST FLOOR FIRE ALARM PLAN
SCALE: 1/4" = 1'-0"



SECOND FLOOR FIRE ALARM PLAN
SCALE: 1/4" = 1'-0"

FIRE ALARM SYMBOLS

- FACP** - EXISTING/RELOCATED FIRE ALARM CONTROL PANEL.
- FAA** - NEW FIRE ALARM REMOTE ANNUNCIATOR. PROVIDE REMOTE ANNUNCIATOR DRIVER CARD IN FIRE ALARM CONTROL PANEL.
- F** - FIRE ALARM MANUAL PULL STATION, 48" AFF.
- S** - FIRE ALARM SMOKE DETECTOR.
- H** - FIRE ALARM HEAT DETECTOR, 135°F.
- C** - FIRE ALARM CARBON MONOXIDE DETECTOR.
- V** - FIRE ALARM HORN/ADA STROBE UNIT, 80" AFF TO BOTTOM.
- ∇** - FIRE ALARM ADA STROBE UNIT, 80" AFF TO BOTTOM.

FIRE ALARM GENERAL NOTES

1. INSTALLATION SHALL COMPLY WITH NFPA 72, FEDERAL, STATE AND LOCAL BUILDING CODES.
2. ALL WIRING SHALL COMPLY WITH ARTICLE 760 OF THE NATIONAL ELECTRICAL CODE. ALL WIRING SHALL BE CHECKED FOR OPENS, SHORTS AND GROUNDS PRIOR TO ENERGIZING. TERMINATE ALL WIRING WITH UL LISTED DEVICES. WIRING COLOR CODE SHALL BE PER NFPA. ALL WIRING SHALL BE SIZED PER MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS.
3. NO PARALLEL BRANCHING OR TAP SPLICES ARE PERMITTED ON SIGNALING CIRCUITS.
4. DETECTOR AND SIGNALING POLARITY SHALL BE OBSERVED.
5. ALL FIRE ALARM DEVICES SHALL BE MOUNTED ON METAL BACKBOXES. JUNCTION BOXES SHALL BE PAINTED RED AND LABELED.
6. NO SMOKE DETECTOR SHALL BE LOCATED WITHIN 3 FEET OF A SUPPLY AIR OUTLET. REFER TO NFPA 72E FOR GUIDELINES.
7. ALL STROBE UNITS TO BE SYNCHRONIZED.
8. FIRE ALARM DEVICE MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS.
9. FIRE ALARM ACCEPTANCE TEST SHALL BE WITNESSED BY THE OFFICE OF THE FIRE MARSHALL. CONTRACTOR SHALL PERFORM A 100% DEVICE TEST PRIOR TO SCHEDULING FIRE MARSHALL INSPECTION.
10. CIRCUIT BREAKER FOR FACP TO BE RED AND PROVIDED WITH LOCK-ON TAB. LABEL BREAKER "FACP - DO NOT TURN OFF".

LEGEND

- ① EXISTING/RELOCATED FIRE ALARM CONTROL PANEL MOUNTED ON NEW EQUIPMENT BACKBOARD.
- ② EXISTING/RELOCATED SECURITY SYSTEM CONTROL PANEL MOUNTED ON NEW EQUIPMENT BACKBOARD.
- ③ NEW SEMI-FLUSH MOUNTED FIRE ALARM REMOTE ANNUNCIATOR PANEL, 48" AFF.
- ④ EXISTING/RELOCATED SECURITY SYSTEM KEYPAD, 48" AFF.

DRAWING TITLE:

FIRE ALARM FLOOR PLANS

SCALE: 1/4" = 1'-0" DRAWN BY: MMV REVIEWED BY: MMV

DRAWING NO.:

E-4

DATE: 06 OCTOBER 2014 JOB NUMBER: 14046