

MBA SUITE CONVERSION of ROOMS 435, 436, and 437

LOCATED AT

UNIVERSITY OF RHODE ISLAND PROVIDENCE CAMPUS

80 WASHINGTON STREET, PROVIDENCE, RHODE ISLAND

URI PROJECT No. PV.M.MISC.2014.002



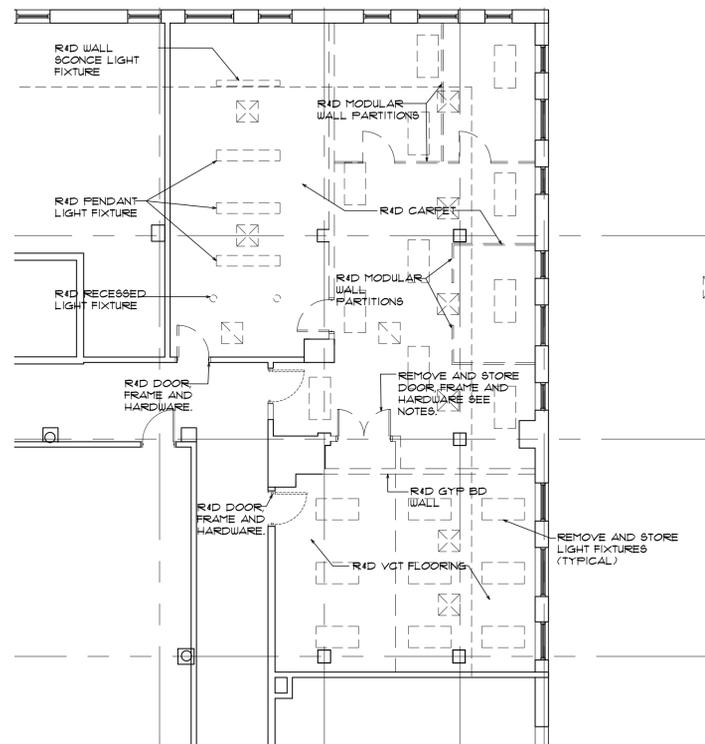
SACCOCCIO & ASSOCIATES, INC.
ARCHITECTS

1085 PARK AVENUE CRANSTON, RI 02910

ENGINEERING DESIGN SERVICES
MECHANICAL, ELECTRICAL AND FIRE PROTECTION ENGINEERS

ISSUED FOR
CONSTRUCTION

JULY 08, 2014



1 DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

THE CONTRACTOR SHALL:

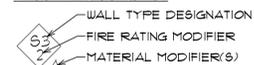
1. VERIFY ALL DIMENSIONS AND SITE CONDITIONS RELATIVE TO NEW WORK AND FAMILIARIZE HIMSELF COMPLETELY WITH ALL EXISTING CONDITIONS RELATIVE TO THE NEW WORK CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS. NO COMPENSATION FOR EXTRA WORK ON BEHALF OF THE CONTRACTOR WILL BE CONSIDERED THAT WOULD HAVE BEEN DETERMINED BY VISUAL OBSERVATION PRIOR TO BIDDING.
2. IDENTIFY EXISTING BEARING WALLS PRIOR TO COMMENCING DEMOLITION. PROVIDE TEMPORARY SHORING, BRACING, ETC. FOR ALL REMAINING STRUCTURE PRIOR TO DEMOLITION/REMOVAL OF ANY STRUCTURAL COMPONENT. SUCH TEMPORARY SUPPORTS SHALL BE ADEQUATE TO KEEP THE REMAINING BUILDING STATIC UNDER ALL SUBJECTED LOADING AND SHALL REMAIN IN PLACE UNTIL ALL NEW STRUCTURAL MEMBERS ARE COMPLETELY INSTALLED.
3. UNDERSTAND THAT UNLESS NOTED OTHERWISE, ALL BROKEN/DASHED LINES SHOWN ON THIS DRAWING INDICATE ITEMS TO BE REMOVED AND/OR RELOCATED. THE KEYNOTE SYMBOLS/BUBBLES GENERALLY POINT ONLY TO A SELECT FEW OF THESE ITEMS AND THE DEMOLITION KEYNOTES BELOW GIVE AN EXPLANATION OF THE DEMOLITION WORK TO BE DONE WHERE THESE DASHED LINES ARE SHOWN.
4. BE RESPONSIBLE FOR ALL CUTTING, FILLING, PATCHING AND/OR REPAIRING OF EXISTING WALLS, FLOORS AND CEILINGS AS REQUIRED FOR THE INSTALLATION OF ALL NEW MECHANICAL, ELECTRICAL AND PLUMBING WORK IN THE EXISTING BUILDING. (VERIFY ALL CONDITIONS AT THE SITE)
5. COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING WORK WITH THE ARCHITECTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE NEW WORK IN ALL AREAS.
6. PROVIDE DUST PARTITIONS AS REQUIRED TO KEEP AREAS OUTSIDE OF WORK AREA FREE OF DIRT AND DUST. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ANY AREAS LEFT UNPROTECTED.
7. BE RESPONSIBLE TO CLEAN THE WORK AREA AT THE END OF EACH WORK DAY. ALL TRASH AND DEBRIS TO BE REMOVED FROM THE BUILDING AND LEGALLY DISPOSED OF.
8. THE CONTRACTOR SHALL REMOVE, ADJUST, MODIFY, CUT, ETC. ALL EXISTING CEILING, FLOOR, AND WALL COMPONENTS AS REQUIRED TO INSTALL ALL NEW AND/OR RELOCATE ALL EXISTING FIRE ALARM, FIRE PROTECTION, POWER/SIGNAL, LIGHTING, ETC. EQUIPMENT SHOWN ON ALL CONSTRUCTION DOCUMENTS INCLUDED IN THIS CONTRACT.

GENERAL PROJECT NOTES

THE CONTRACTOR/S SHALL:

1. UNDERSTAND THAT THE TERM "PROVIDE" AS LISTED ON THESE DRAWINGS SHALL MEAN "FURNISH AND INSTALL".
2. VISIT THE JOB SITE AND FAMILIARIZE HIMSELF COMPLETELY WITH ALL EXISTING CONDITIONS RELATIVE TO THE NEW WORK CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS. NO COMPENSATION FOR EXTRA WORK ON BEHALF OF THE CONTRACTOR WILL BE CONSIDERED THAT WOULD HAVE BEEN DETERMINED BY VISUAL OBSERVATION PRIOR TO BIDDING.
3. UNDERSTAND THAT THE TERM "MATCH EXISTING" AS LISTED ON THESE DRAWINGS SHALL MEAN THAT ALL WORK TO BE PERFORMED MUST BE OF SIMILAR MATERIALS, CONSTRUCTION AND FINISHED TO THE LINES OF ADJACENT WORK IN ALL RESPECTS.
4. UNDERSTAND THAT ALL NEW WORK MUST MEET ALL APPLICABLE CODES.
5. UNDERSTAND THAT DISRUPTION TO DAILY ACTIVITIES WITHIN THE REMAINDER OF THE BUILDING MUST BE KEPT TO A MINIMUM.
6. PATCH AND REPAIR ALL WALLS, FLOORS, AND CEILINGS IN ALL AREAS AFFECTED BY DEMOLITION WORK. ALL WORK TO BE PERFORMED MUST BE OF SIMILAR MATERIALS, CONSTRUCTION AND FINISHED TO THE LINES OF ADJACENT WORK IN ALL RESPECTS.
7. COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING WORK WITH THE ARCHITECTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE NEW WORK IN ALL AREAS.
8. PROVIDE DUST PARTITIONS AS REQUIRED TO KEEP AREAS OUTSIDE OF SCOPE FREE OF DIRT AND DUST. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ANY AREAS LEFT UNPROTECTED.
9. AVOID DAMAGE TO ALL SURROUNDING ARCHITECTURAL ELEMENTS AND SURFACES DURING ALL DEMOLITION BY THE USE OF NECESSARY PROTECTIVE COVERINGS. REPLACEMENT/REPAIR TO ANY ELEMENTS DAMAGED DURING DEMOLITION SHALL BE AT THE CONTRACTOR'S EXPENSE, AND ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
10. CONFORM TO ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR THE SAFE AND LEGAL REMOVAL AND DISPOSAL OF ALL MATERIALS.
11. REMOVE, ADJUST, MODIFY, CUT, ETC. ALL EXISTING CEILING, FLOOR, AND WALL COMPONENTS AS REQUIRED TO INSTALL ALL NEW AND/OR RELOCATE ALL EXISTING ELECTRICAL, FIRE ALARM, FIRE PROTECTION, POWER/SIGNAL, LIGHTING, ETC. EQUIPMENT SHOWN ON ALL CONSTRUCTION DOCUMENTS INCLUDED IN THIS CONTRACT.
12. BE RESPONSIBLE TO CLEAN THE WORK AREA AT THE END OF EACH WORK DAY. ALL TRASH AND DEBRIS TO BE REMOVED FROM THE BUILDING.

WALL TAG LEGEND



MATERIAL MODIFIERS

"A" FILL STUD CAVITY FULL HEIGHT WITH SOUND ATTENUATION BATTING. WALL ASSEMBLIES HAVING THIS MODIFIER SHALL BE CONTINUOUS FROM THE FLOOR TO THE TOP OF THE GYP. BOARD.

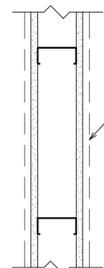
"B" FINISH GYPSUM WALLBOARD 6" ABOVE CEILING.

FIRE RATING MODIFIERS

"1" WALL TO HAVE A MINIMUM OF ONE HOUR FIRE RATING.
UL DESIGN #425 WHERE STEEL STUDS ARE USED.
UL DESIGN #415 SYSTEM "A" WHERE 2 1/2" C-H SHAPED STEEL STUDS ARE USED.
UL DESIGN #205 WHERE 8" NOMINAL CMU IS USED.

83 3 5/8" STEEL STUDS @ 16" OC.
(1) LAYER 5/8" TYPE X GWB EACH SIDE. TOTAL WALL THICKNESS 4 1/8".

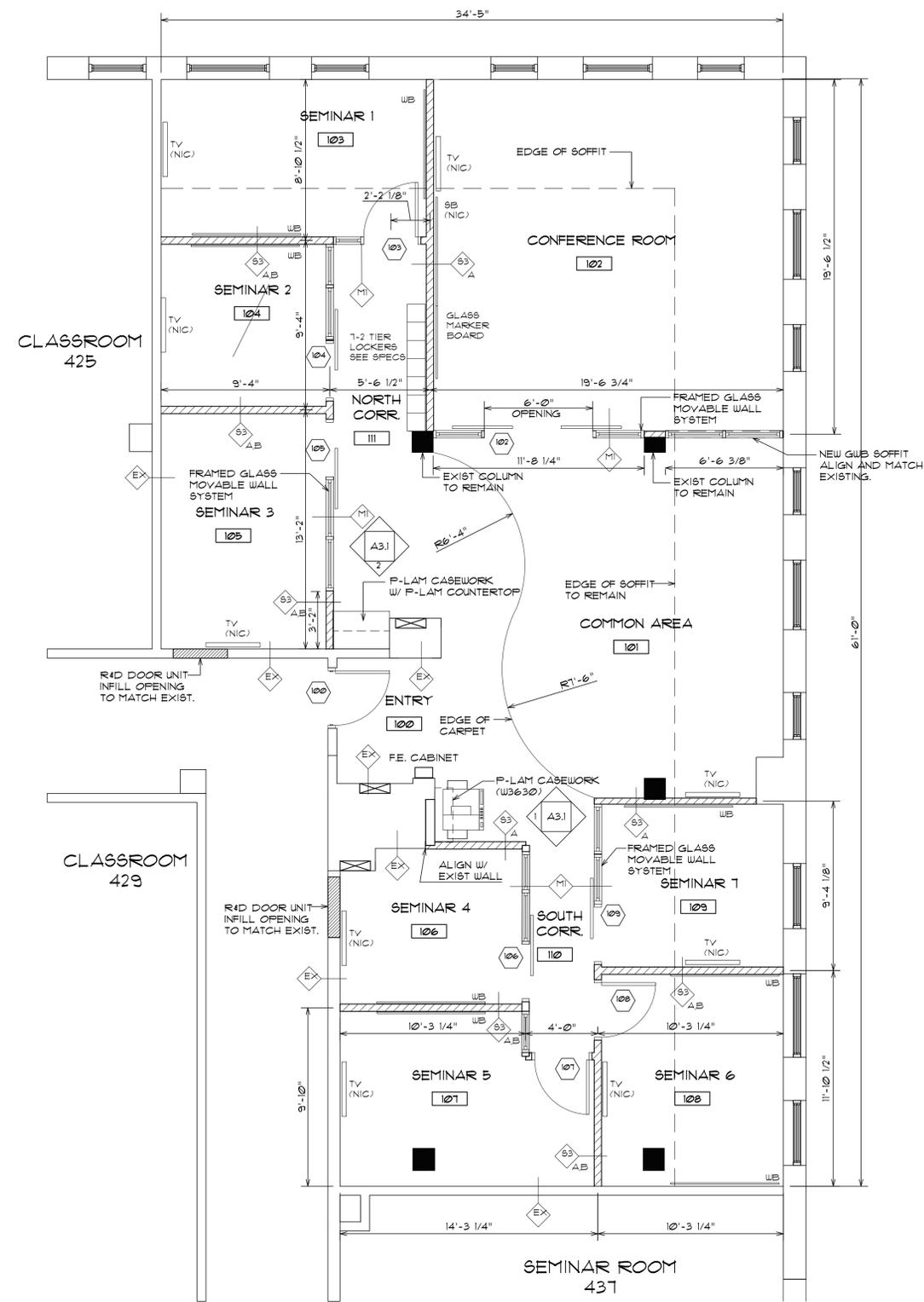
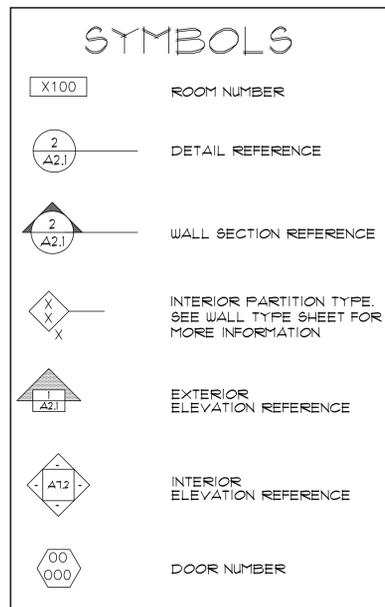
M1 MODULAR GLASS WALL SYSTEM W/ ALUMINUM FRAMES FASTENED AT CEILING GRID



ADDITIONAL LAYER 5/8" GWB WHERE REQUIRED

WALL TYPES

SCALE: 1 1/2" = 1'-0"



2 FLOOR PLAN
SCALE: 1/4" = 1'-0"



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CONSULTANT

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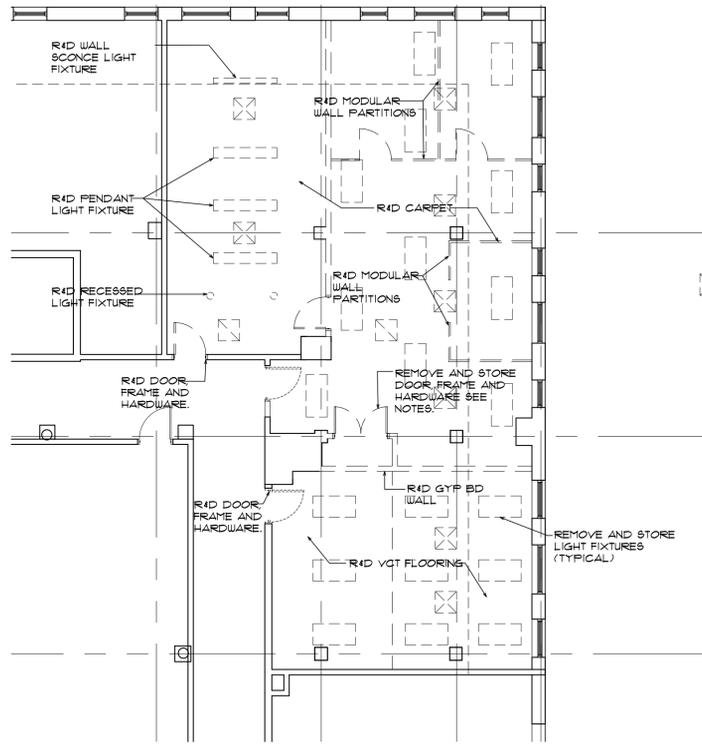
SHEET TITLE
DEMOLITION PLAN, FLOOR PLAN,
GENERAL NOTES

REVISIONS

DRAWN: MJM DATE: 07-08-2014
CHK BY: MS JOB NO: 14140-63

A1.1

SHEET OF

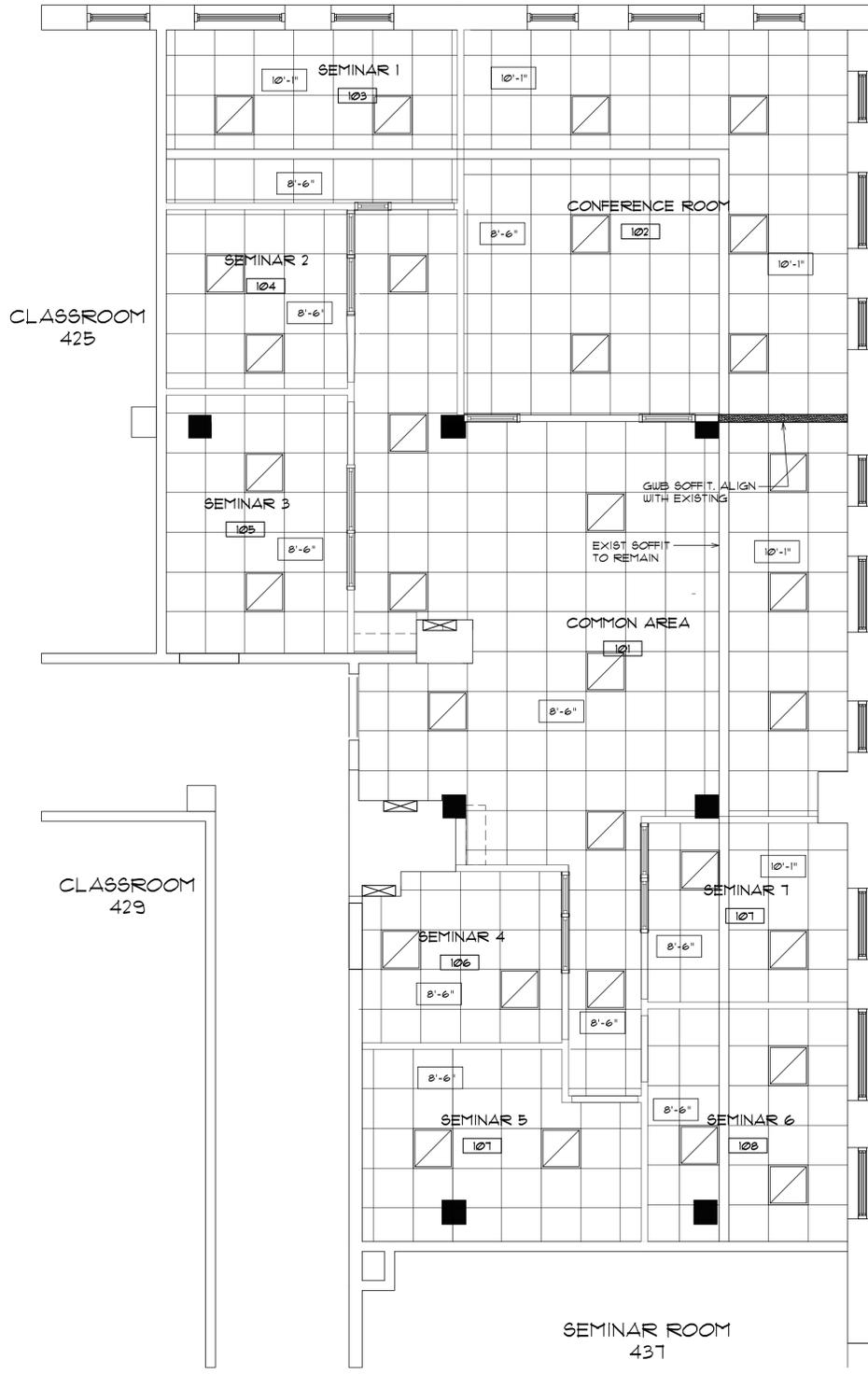


1 DEMOLITION CEILING PLAN
A2.1 SCALE: 1/8" = 1'-0"

- NOTES:**
- SEE DRAWING A1.0 FOR MORE DEMOLITION NOTES.
 - UNLESS NOTED OTHERWISE, DASHED LINES ON THIS DRAWING INDICATE ELEMENTS THAT ARE TO BE REMOVED, RELOCATED, AND/OR DISPOSED OF AS NOTED.
 - REMOVE, MODIFY, AND/OR RELOCATE THE EXISTING HVAC SYSTEM AS REQUIRED TO COORDINATE WITH THE NEW SPACE LAYOUT.
 - CEILING HEIGHTS ARE TO MATCH EXISTING.
 - COORDINATE EXISTING MECHANICAL AND FIRE PROTECTION WITH THE MECHANICAL AND FIRE PROTECTION DRAWINGS. REUSE ALL EXISTING FIXTURES UNLESS OTHERWISE NOTED.

SYMBOLS

	ROOM NUMBER
	DETAIL REFERENCE
	WALL SECTION REFERENCE
	INTERIOR PARTITION TYPE. SEE WALL TYPE SHEET FOR MORE INFORMATION
	EXTERIOR ELEVATION REFERENCE
	INTERIOR ELEVATION REFERENCE
	DOOR NUMBER



2 REFLECTED CEILING PLAN
A2.1 SCALE: 1/4" = 1'-0"



KEY PLAN



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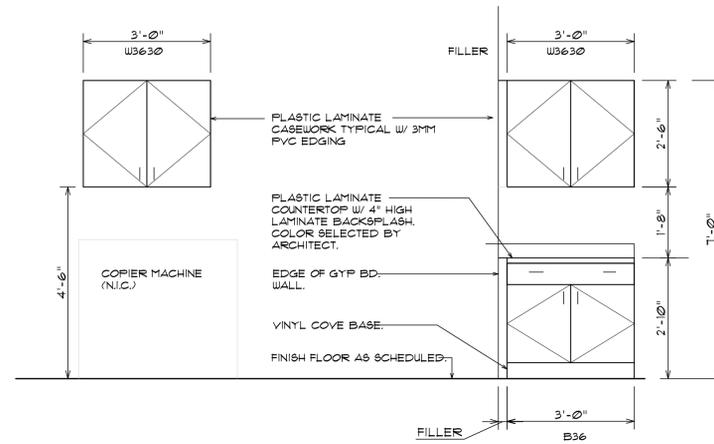
SHEET TITLE
CEILING DEMOLITION, REFLECTED
CEILING PLAN

REVISIONS

DRAWN: MJM	DATE: 07-08-2014
CHK BY: MS	JOB NO: 14140-63

A2.1

SHEET OF



1 CASEWORK ELEVATION
A3.1 SCALE: 1/2" = 1'-0"

2 CASEWORK ELEVATION
A3.1 SCALE: 1/2" = 1'-0"

DOOR SCHEDULE

DOOR#	LOCATION	ROOM NAME	DOOR SIZE	DOOR TYPE			FRAME TYPE			DETAILS		LABEL	HW	REMARKS
				ELEV.	MAT.	GLAZ.	ELEV.	MAT.	FINISH	HEAD	JAMB			
100	ENTRY		3'-0" x 6'-8" x 1-3/4"	-	METAL	EXIST	-	HM	PT	-	-	-	-	EXISTING DOOR TO REMAIN, PAINT FRAMES
101	COMMON AREA		NOT	-	USE D	-	-	-	-	-	-	-	-	
102	SMALL CONFERENCE ROOM		2'-3'-0" x 6'-8" x 1/4"	-	GLASS	TEMP	-	-	-	-	-	-	-	BI-PARTING BARN DOOR - SEE MOVABLE WALL SPEC.
103	SEMINAR 1		3'-0" x 6'-8" x 1/4"	-	GLASS	TEMP	-	-	-	-	-	-	-	PIVOT DOOR - SEE MOVABLE WALL SPEC.
104	SEMINAR 2		3'-0" x 6'-8" x 1/4"	-	GLASS	TEMP	-	-	-	-	-	-	-	BARN DOOR - SEE MOVABLE WALL SPEC.
105	SEMINAR 3		3'-0" x 6'-8" x 1/4"	-	GLASS	TEMP	-	-	-	-	-	-	-	BARN DOOR - SEE MOVABLE WALL SPEC.
106	SEMINAR 4		3'-0" x 6'-8" x 1/4"	-	GLASS	TEMP	-	-	-	-	-	-	-	PIVOT DOOR - SEE MOVABLE WALL SPEC.
107	SEMINAR 5		3'-0" x 6'-8" x 1/4"	-	GLASS	TEMP	-	-	-	-	-	-	-	PIVOT DOOR - SEE MOVABLE WALL SPEC.
108	SEMINAR 6		3'-0" x 6'-8" x 1/4"	-	GLASS	TEMP	-	-	-	-	-	-	-	PIVOT DOOR - SEE MOVABLE WALL SPEC.
109	SEMINAR 7		3'-0" x 6'-8" x 1/4"	-	GLASS	TEMP	-	-	-	-	-	-	-	BARN DOOR - SEE MOVABLE WALL SPEC.

NOTES - DOOR SCHEDULE

- ALL DOORS ARE TO BE SUPPLIED WITH THE FRAMED MOVABLE WALL SYSTEM. SEE SPECIFICATIONS.
- FRAMED MOVABLE WALL SYSTEM SHALL BE INSTALLED TO THE BOTTOM OF THE ACT SUSPENDED CEILING.
- ALL DOORS SHALL HAVE KEYPED LOCKS.
- ALL HARDWARE TO BE SUPPLIED BY THE MOVABLE PARTITION MANUFACTURER.

SCHEDULE OF INTERIOR FINISHES

RM. NO.	ROOM TITLES	FLOOR		BASE		WALLS								CEILING		REMARKS
		SUB-FLR	FIN.	MAT.	HT.	NORTH		SOUTH		EAST		WEST		MAT.	FIN.	
						MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.			
100	ENTRY	UD	VT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	
101	COMMON AREA	UD	CPTT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	
102	SMALL CONFERENCE ROOM	UD	CPTT	VCB	4"	GUB	PT	GUB	PT	-	-	GUB	PT	ACT	-	
103	SEMINAR RM 1	UD	CPTT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	MAINTAIN FINISH CEILING HEIGHT OF 8'-0"
104	SEMINAR RM 2	UD	CPTT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	
105	SEMINAR RM 3	UD	CPTT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	
106	SEMINAR RM 4	UD	CPTT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	
107	SEMINAR RM 5	UD	CPTT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	
108	SEMINAR RM 6	UD	CPTT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	
109	SEMINAR RM 7	UD	CPTT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	
110	SOUTH CORRIDOR	UD	VT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	
111	NORTH CORRIDOR	UD	VT	VCB	4"	GUB	PT	GUB	PT	GUB	PT	GUB	PT	ACT	-	

NOTES - FINISH SCHEDULE

- ANY ROOM(S) FOUND ON OTHER PLANS AND NOT INDICATED ON FINISH SCHEDULE SHALL RECEIVE MINIMALLY VCT, VCB, ACT AND PT. NOTIFY ARCHITECT OF MISSING ROOM PRIOR TO COMMENCING ANY WORK IN THESE AREAS.
- UNLESS NOTED OTHERWISE, ALL PLASTER WALLS ARE EXISTING AND ARE TO BE PATCHED AS REQUIRED AND PAINTED IN WORK SCOPE AREAS.

LEGEND

- = NO WORK NEEDED
- ACT = ACOUSTICAL CEILING TILE (REGULAR EDGE)
- ALUM = ALUMINUM
- CPTT = CARPET TILE
- EXT = EXISTING
- FIN = FINISH
- F/SR = FIRE-SAFETY RATED GLASS
- FLR = FLOOR
- GUB = GYPSUM WALL BOARD
- GHM = GALVANIZED HOLLOW METAL
- HM = HOLLOW METAL
- INSUL = INSULATED
- MAT = MATERIAL
- OTS = OPEN TO STRUCTURE
- PLAS = EXISTING PLASTER
- PT = PAINT
- RM = ROOM
- TEMP = TEMPERED
- VAS = VERIFY AT SITE
- VCB = VINYL COVE BASE
- VT = VINYL TILE
- UD = WOOD



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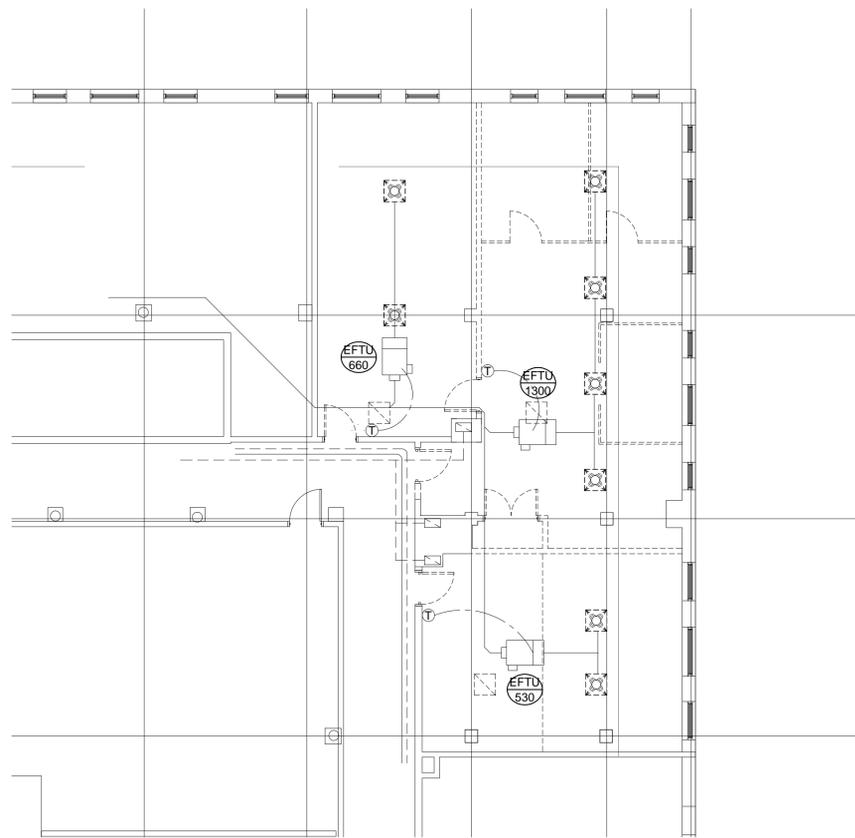
SHEET TITLE
SCHEDULES
INTERIOR ELEVATIONS

REVISIONS

DRAWN: MJM DATE: 01-08-2014
CHK BY: MS JOB NO: 14140-63

A3.1

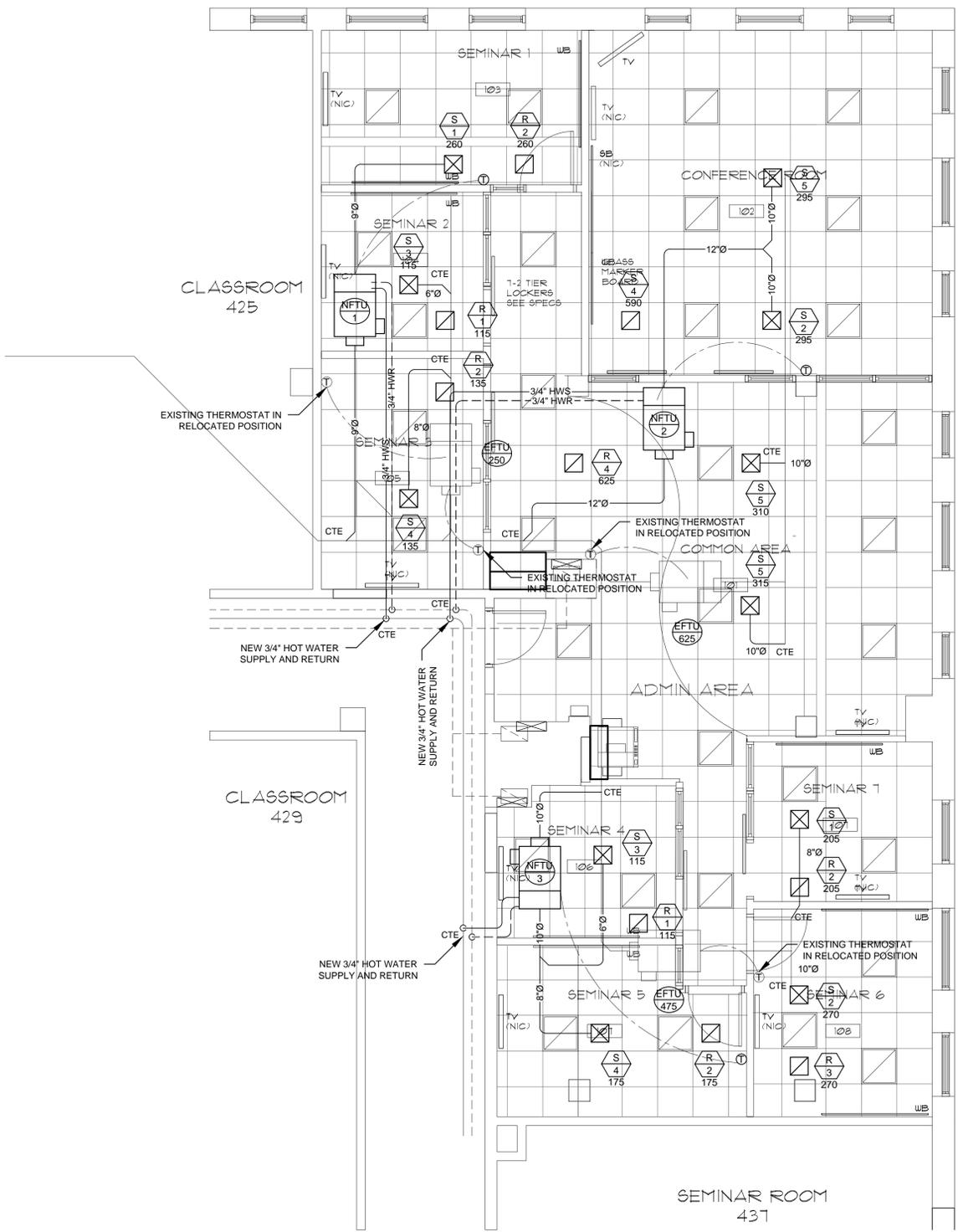
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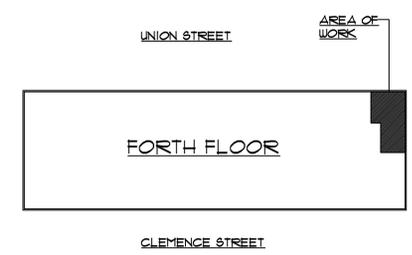
1 DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

LEGEND

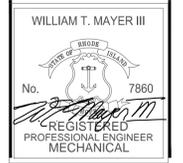
- EXISTING DUCTWORK TO REMAIN
- NEW DUCTWORK
- VOLUME DAMPER
- THERMOSTAT
- WIDTH X DEPTH OF DUCT
- AIRFLOW DIRECTION
- EXISTING FAN TERMINAL UNIT TO REMAIN
- EXISTING DIFFUSER TO BE REMOVED
- EXISTING 24x24 RETURN AIR GRILLE TO BE REMOVED
- NEW DIFFUSER
- NEW RETURN AIR GRILLE
- NEW FAN TERMINAL UNIT
- CONNECT TO EXISTING



2 FLOOR PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN



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SHEET TITLE
DEMOLITION PLAN, FLOOR PLAN, AND LEGEND

REVISIONS

DRAWN: XX DATE: 01/08/2014
CHK BY: XX JOB NO: 14140-63

M1.1

SHEET OF



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SHEET TITLE
SPECIFICATIONS, SCHEDULES, AND
DETAILS

REVISIONS

DRAWN: MJS DATE: 01/09/2014
CHK BY: WTM JOB NO: 14140-63

M2.1

SHEET OF

NEW FAN TERMINAL UNIT SCHEDULE (BASED ON ENVIROTEC)

TAG	SERVING	MODEL	INLET	TOTAL CFM	PRIMARY AIR MAX. CFM	PRIMARY AIR MIN. CFM	TOTAL ESP (inwg)	HEATING COIL DATA					ELECTRICAL DATA			NOTES	
								ROW	CAPACITY MBH	EWT °F	LWT °F	FLOW (GPM)	WPD (ft)	HP	FLA		VOLTAGE
NFTU-1	SEMINAR 1	VFR-NC-0504	7	260	260	65	.25	1	8	190	180	.8	20"	1/12	X	277V/1Ø/60	1,2,3,4,5
NFTU-2	CONFERENCE ROOM 102	VFR-NC-0811	8	590	590	150	.25	1	19	190	180	1.9	20"	1/4	X	277V/1Ø/60	1,2,3,4,5
NFTU-3	SEMINAR 5 & 6	VFR-NC-0504	7	290	290	75	.25	1	9	190	180	.9	20"	1/12	X	277V/1Ø/60	1,2,3,4,5

- NOTES:
- PROVIDE WITH DISCONNECT. REFER TO ELECTRICAL PIPING PLANS FOR RATINGS AND COORDINATE WITH E.C.
 - PROVIDE WITH HIGH CAPACITY HOT WATER COIL.
 - PROVIDE WITH PRESSURE INDEPENDENT DIGITAL CONTROLS TO MATCH EXISTING.
 - REFER TO FLOOR PIPING PLANS FOR COIL CONNECTION & ACTUATOR ORIENTATION.
 - PROVIDE WITH 277V TO 24V KNOCK-DOWN TRANSFORMER AS REQUIRED. COORDINATE WITH CONTROLS CONTRACTOR.

AIR DEVICE SCHEDULE (BASED ON PRICE)

SYMBOL	MODEL	TYPE	THROW	MAX. CFM	SIZE	NOTES
S-1	SMD	CLG	3W	200	9"x9"	1,2,3
S-2	SMD	CLG	3W	295	12"x12"	1,2,3
S-3	SMD	CLG	4W	115	6"x6"	1,2,3
S-4	SMD	CLG	4W	175	9"x9"	1,2,3
S-5	SMD	CLG	4W	310	12"x12"	1,2,3
R-1	535D	CLG	---	115	8"x8"	1,2,3
R-2	535D	CLG	---	260	10"x10"	1,2,3
R-3	535D	CLG	---	270	12"x12"	1,2,3
R-4	535D	CLG	---	625	16"x16"	1,2,3

- NOTES:
- STEEL CONSTRUCTION, FACTORY PAINTED WHITE ENAMEL
 - PROVIDE OPPOSED BLADE DAMPER ON ALL REGISTERS AND DIFFUSERS.
 - PROVIDE VOLUME DAMPER IN BRANCH DUCT

SPECIFICATIONS

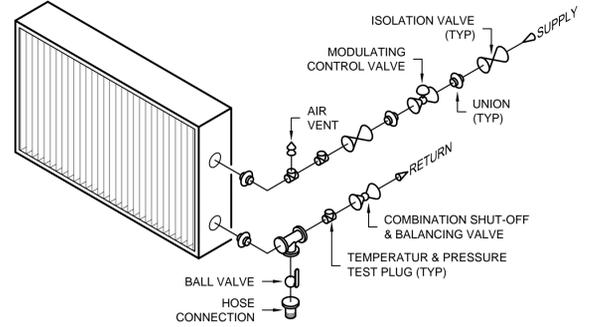
- CONTRACTOR SHALL VISIT THE BUILDING SITE AND INFORM HIMSELF OF EXISTING CONDITIONS. NO CLAIM FOR EXTRA COMPENSATION SHALL BE ENTERTAINED FOR WORK REQUIRED TO BE DONE WHICH PRELIMINARY INVESTIGATION OF THE SITE WOULD HAVE REVEALED AS NECESSARY TO ACCOMPLISH THE PURPOSES INTENDED OR INDICATED ON PLANS.
- PROVIDE ALL REQUIRED LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND FULL INSTALLATION OF ALL WORK INDICATED AND/OR AS REQUIRED FOR THE PROPOSED SYSTEM.
- INSTALLATION OF ALL WORK SHALL PROCEED IN A MANNER AS APPROVED BY THE OWNER TO SUIT THE BEST INTEREST OF THE JOB, SUBJECT TO ADJUSTMENTS WHERE REQUIRED TO MEET SPECIFIC JOB CONDITIONS. INSTALL ALL WORK SO THAT ALL PARTS REQUIRED ARE READILY ACCESSIBLE FOR INSPECTIONS, OPERATION, MAINTENANCE AND REPAIR.
- THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENTS OF EQUIPMENT. THE LOCATIONS OF ALL ITEMS NOT FIXED BY DIMENSIONS ARE APPROXIMATE ONLY.
- ALL NEW SUPPLY AIR DUCTWORK SHALL BE CONSTRUCTED OF BEST GRADED GALVANIZED STEEL INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS FOR LOW VELOCITY SYSTEMS.
- VOLUME DAMPERS SHALL BE INSTALLED WHERE INDICATED ON DRAWING. VOLUME DAMPERS SHALL HAVE LOCKING WING NUTS TO ALLOW FOR PROPER ADJUSTED OF AIR FLOWS.
- THIS CONTRACTOR SHALL GUARANTEE THE QUALITY OF ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FURNISHED AND INSTALLED BY HIM FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION BY THE OWNER.

PIPING

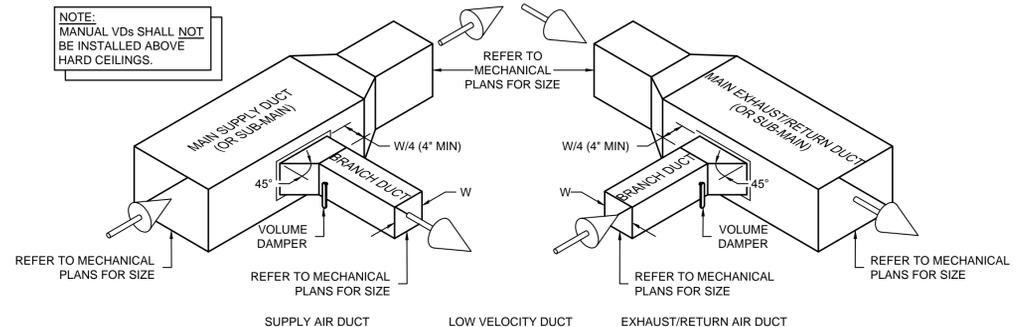
- A. Heating:
- Fittings: ASME B16.18, cast brass, or ASME B16.22, solder wrought copper.
 - Tee Connections: Mechanically extracted collars with notched and dimpled branch tube.
 - Joints: Solder, 95-5 tin-antimony, or tin and silver, with melting range 430°F to 535°F
 - Piping Expansion: Provide means for the mechanical expansion of the piping in the form expansion loops located in the piping loop as required.

Insulation:

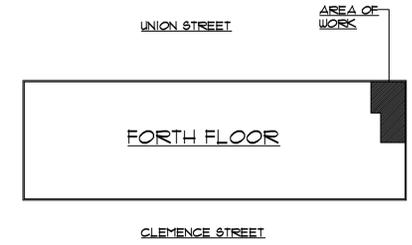
- Hot Water Piping: Preformed glass fiber meeting ASTM C547, "K" value of 0.24 @ 75°F with a service temperature 0°F to +850°F, 25/50. Owens Corning SSL-11 or approved equal by Armstrong, Knauf or Manville.
 - Low Temperature Fluid applications: Provide insulation with integral wick material. Product shall include a factory applied integral vapor retarder extending under the evaporator area of the wick and covering not less than 98% of the circumference of the product. Exposed evaporator area shall be not less than 0.1 sq. ft./linear ft. of product.
 - Fittings: Factory precut insulation inserts, thickness to be same as adjacent. Enclose in pre molded, PVC fitting covers. For low temperature applications fittings and valves shall be wrapped continuously with wicking material prior to installing insulation to ensure a continuous path for removal of condensation.
 - Jacket: Factory applied, all service jacket of white kraft bonded to aluminum foil reinforced with fiberglass yarn and suitable for painting. Longitudinal and butt joints shall be made with factory applied pressure sensitive material.



COIL PIPING DETAIL
NO SCALE



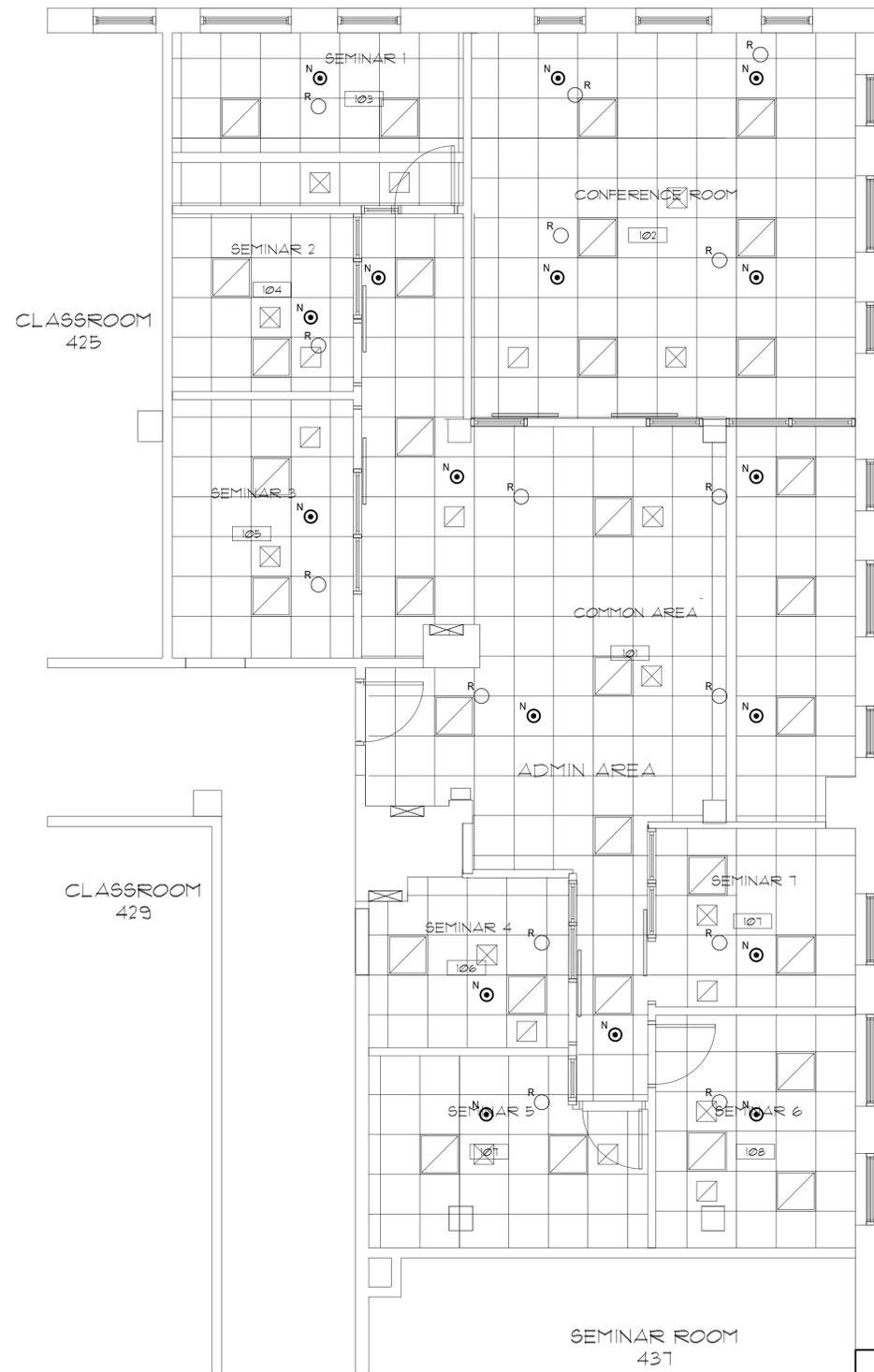
BRANCH DUCT CONNECTIONS
NTS



KEY PLAN

FIRE PROTECTION LEGEND

- R ○ EXISTING SPRINKLER TO BE REMOVED
- N ○ NEW PENDENT SPRINKLER HEAD TO MATCH EXISTING



DEDUCT UNIT PRICE

"FP1": THE FIRE PROTECTION PLAN INDICATES THE REMOVAL OF THE EXISTING SPRINKLERS WITHIN THE SPACE AND THE INSTALLATION OF NEW. THE DESIGN INTENT IS TO MAINTAIN THE EXISTING SPRINKLERS WHERE POSSIBLE (i.e. THE PROPOSED CEILING GRID DOES NOT CONFLICT WITH THE EXISTING SPRINKLER LOCATIONS). THIS CONTRACTOR TO PROVIDE A LINE ITEM PER SPRINKLER TO MAINTAIN EXISTING LOCATION AS OPPOSED TO REMOVING AND INSTALLING NEW.

PROJECT DESCRIPTION

THE PROJECT INVOLVES THE INTERIOR IMPROVEMENTS TO MBA SEMINAR SUITE FOR THE UNIVERSITY OF RHODE ISLAND. THE PROJECT IS LOCATED ON THE 4TH FLOOR AT 80 WASHINGTON STREET IN PROVIDENCE, RHODE ISLAND.

APPLICABLE LAWS, REGULATIONS AND STANDARDS

- 1. NFPA 13 - INSTALLATION OF SPRINKLER SYSTEMS & ALL REFERENCED DOCUMENTS NOTED IN CHAPTER 10.
- 2. NFPA 25 - INSPECTION, TESTING AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS.
- 3. RHODE ISLAND STATE BUILDING CODE.
- 4. AUTHORITY HAVING JURISDICTION: CITY OF PROVIDENCE FIRE MARSHAL.
- 5. STANDARDS OF THE UNDERWRITER'S LABORATORIES (UL)
- 6. GOVERNING WATER AUTHORITY
- 7. OWNER'S INSURANCE COMPANY

DESIGN RESPONSIBILITY FOR SPRINKLER SYSTEM ENGINEERING DESIGN SERVICES, INC. PROVIDES A PERFORMANCE-BASED DESIGN AND SPECIFIES THE DESIGN CRITERIA TO BE USED BY THE INSTALLING CONTRACTOR WHO FINALIZES THE SYSTEM LAYOUT AND PROVIDES HYDRAULIC CALCULATIONS TO CONFIRM DESIGN CRITERIA. THE WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE FIRE PROTECTION IN THE STATE OF RHODE ISLAND AND SUBMITTED TO THE BUILDING DEPARTMENT AND LOCAL FIRE DEPARTMENT FOR FINAL REVIEW AND APPROVAL. THE PROFESSIONAL ENGINEER IS CONSIDERED THE ENGINEER OF RECORD AND CERTIFIES SYSTEM INSTALLATION FOR CODE COMPLIANCE AT COMPLETION OF THE INSTALLATION.

SPRINKLER SYSTEM TO BE INSTALLED

MODIFY THE EXISTING SPRINKLER SYSTEM TO INSURE A COMPLETE AUTOMATIC WET PIPE SPRINKLER SYSTEM THROUGHOUT THE FIRST FLOOR. HYDRAULICALLY DESIGNED ON COMPUTER PROGRAM. REWORK EXISTING SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE THE PROPOSED RENOVATIONS AND PROVIDE NEW SPRINKLERS AS SHOWN. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED FOR LIGHT HAZARD UTILIZING A DENSITY OF .10 OVER 1,500 SQUARE FEET.

PROVIDE PENDANT SPRINKLERS TO MATCH EXISTING.

THE OCCURRENCE OF FIRE OR ANY OTHER SOURCE OF HEAT GENERATED IN A SUFFICIENT AMOUNT TO FUSE HEAT SENSITIVE ELEMENTS AT INDIVIDUAL FIRE SPRINKLERS OR A BREAK AT ANY POINT WITHIN THE FIRE SPRINKLER PIPING SYSTEM EQUAL TO THE WATER FLOW FROM ONE FIRE SPRINKLER WILL CAUSE THE BASE BUILDING MAIN ALARM CHECK VALVE ASSEMBLY WATER FLOW SWITCH TO ACTIVATE. WHEN ELECTRICAL CONTACTS WITHIN THE MAIN ALARM CHECK VALVE WATER FLOW SWITCHES ACTIVATE, AN ALARM SIGNAL IS SENT TO THE FIRE ALARM CONTROL PANEL CAUSING THE PANEL TO ACKNOWLEDGE AN ALARM CONDITION.

FINAL SYSTEM ACCEPTANCE REQUIREMENTS FOR THE FIRE SPRINKLER SYSTEM WILL BE AS REQUIRED BY APPLICABLE SECTIONS OF CHAPTER 16 OF NFPA #13.

THE BUILDING FIRE SPRINKLER SYSTEM WILL BE HYDROSTATICALLY TESTED PER NFPA #13. ALL VALVE SUPERVISORY SWITCHES AND WATER FLOW INDICATORS WILL BE TESTED FOR PROPER OPERATION AND INTEGRATION IN TO THE BUILDING FIRE ALARM SYSTEM AS REQUIRED BY NFPA #72.

TESTING SHALL BE WITNESSED BY THE CITY OF PROVIDENCE FIRE DEPARTMENT TO THEIR SPECIFICATIONS AND SATISFACTION.



1 FLOOR PLAN
 FPII SCALE: 1/4" = 1'-0"

KEY PLAN



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 Cranston, RI 02910 fax 401.942.7975

CONSULTANT



MBA SUITE CONVERSION
 of ROOMS 435, 436, 437
 UNIVERSITY
 OF RHODE ISLAND

PROVIDENCE CAMPUS
 80 WASHINGTON STREET
 PROVIDENCE, RI

URI PROJECT No.
 PV.M.MISC.2014.002

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SHEET TITLE
 FIRE PROTECTION:
 FLOOR PLAN AND NOTES

REVISIONS

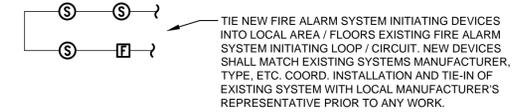
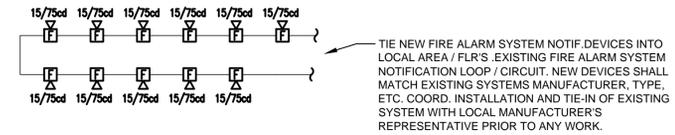
DRAWN: GGM DATE: 07/08/2014
 CHK BY: GGM JOB NO: 14140-63

FP1.1

SHEET OF

FIRE ALARM NOTES

- | | |
|--|--|
| <p>1. E.C. SHALL PROVIDE CIRCUIT BREAKER LOCK-ON DEVICES FOR FACP AND NAC POWER EXTENDER CIRCUITS.</p> <p>2. E.C. SHALL FURNISH AND INSTALL REMOTE INDICATING LIGHTS/TEST SWITCHES FOR DUCT SMOKE DETECTORS AS WELL AS SMOKE DETECTOR LOCATED AT THE TOP OF THE ELEVATOR SHAFTS.</p> <p>3. REFER TO FLOOR PLANS FOR EXACT NUMBER OF DEVICES & CANDELA RATINGS.</p> <p>4. COLOR CODE PER NFPA, (LATEST EDITION).</p> <p>5. ALL SPLICES SHALL BE MADE ON SCREW TYPE TERMINAL BLOCKS. NO WIRENUTS WILL BE ALLOWED.</p> <p>6. RED PAINTED TERMINAL CABINETS & BOXES WITH LOCKABLE COVERS SHALL BE PROVIDED AT ALL JUNCTION POINTS.</p> <p>7. AFC FIRE ALARM / CONTROL CABLE TYPE MC (UL LISTED) MAY BE USED ABOVE CEILINGS AND IN CONCEALED AREAS WHERE ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION, OTHERWISE WIRING SHALL BE INSTALLED IN EMT CONDUIT. WIRING IN EXPOSED AREAS SHALL BE EMT, E.C. SHALL PROVIDE AN ALTERNATE TO PAINT PER ARCHITECT'S DIRECTION.</p> <p>8. THE CONTRACTOR AT COMPLETION OF THE FIRE ALARM SYSTEM SHALL TEST THE ENTIRE SYSTEM PER THE LOCAL FIRE DEPARTMENTS REQUIREMENTS. THE CONTRACTOR SHALL REPLACE OR FIX ANY PART OF THE SYSTEM <u>(RELATED TO TENANT FIT-OUT)</u> NOT PROPERLY WORKING.</p> | <p>9. ALL WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. E.C. SHALL TAKE INTO ACCOUNT VOLTAGE DROP. (TYPICAL)</p> <p>10. ALL FIRE ALARM SYSTEM COMPONENTS & MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS.</p> <p>11. E.C. SHALL PROVIDE ANY AND ALL AUXILIARY EQUIPMENT IN ORDER TO PROVIDE A COMPLETE, PROPERLY FUNCTIONING SYSTEM. COORDINATE REQUIREMENTS WITH LOCAL MANUFACTURERS REP.</p> <p>12. ALL FIRE ALARM STROBE SIGNAL DEVICES SHALL BE SYNCHRONIZED TYPE DEVICES AND COMPLY WITH ADA REQUIREMENTS.</p> <p>13. NO T-TAPPING OF FIRE ALARM WIRING SHALL BE ALLOWED. (TYPICAL)</p> <p>14. ALL FIRE ALARM WIRING & RACEWAY SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT BE LOCATED AS TO BE DAMAGED BY BUILDING USE.</p> <p>15. FIRE ALARM SYSTEM BATTERIES AND CHARGER SHALL BE PROVIDED FOR STAND-BY BATTERY POWER CAPACITY PER THE STATE'S FIRE LAWS (LATEST EDITION). E.C. SHALL SUBMIT BATTERY CALCULATIONS FOR THE MODIFIED SYSTEM DOCUMENTING CODE COMPLIANCE.</p> <p>16. NEW NOTIFICATION APPLIANCE CIRCUIT EXPANDER PANELS SHALL BE PROVIDED WITH INTEGRAL BATTERY BACK-UP PER STATE'S FIRE LAWS (LATEST EDITION).</p> |
|--|--|



NOTE:
CONTRACTOR SHALL PROVIDE ADDITIONAL POWER SUPPLIES IN FIRE ALARM CONTROL PANEL AS REQUIRED, TO PROVIDE POWER FOR ALL NOTIFICATION DEVICES. (TYPICAL)

"PARTIAL" FIRE ALARM RISER DIAGRAM NOT TO SCALE

TYPICAL FIRE STOPPING NOTES

- A. **GENERAL:** FIRE STOPPING SHALL BE PROVIDED BY THIS CONTRACTOR FOR ALL FLOOR, CEILING AND FIRE RATED WALL PENETRATIONS FOR CONDUIT, SLEEVES AND/OR CABLING AS REQUIRED BY JOB CONDITIONS.
- B. THE CONTRACTOR SHALL PROVIDE A FIRE STOP SYSTEM IN ACCORDANCE WITH THE FOLLOWING:
- THE SYSTEM SHALL CONSIST OF A WATERBASED SEALANT AND SUITABLE DAMMING MATERIALS (WHERE REQUIRED) AND BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
 - THE SEALANT SUPPLIED SHALL BE A TWO STAGED INTUMESCENT AND CAPABLE OF EXPANDING UP TO 8 TIMES ITS ORIGINAL VOLUME.
 - THE SEALANT SUPPLIED SHALL CONTAIN NO ASBESTOS, NO FIBERGLASS, AND NO SOLVENTS NOT CORROSIVE MINERAL SALTS OF ANY KIND.
 - THE SEALANT SHALL FORM A SURFACE CAPABLE OF BEING SANDED AND PAINTED TO MATCH SURROUNDING SURFACES AND SHALL BE IMPERVIOUS TO WATER WHEN DRY.
 - THE FIRE STOP SYSTEM SHALL BE TESTED TO THE TIME/TEMPERATURE REQUIREMENTS OF ASTM E119 AND SHALL BE UL1479 (ASTM E814) AND CLASSIFIED FOR UP TO 3 HOURS.
 - THE FIRE STOP SEALANT SHALL BE SPECSEAL SEALANT AS MANUFACTURED BY SPECIFIED TECHNOLOGIES, INC. OR APPROVED EQUAL.
 - SPECIAL CARE SHALL BE TAKEN WITH ELECTRICAL SYSTEMS NOT TO COMPROMISE ANY OF THE BUILDING FIRE PARTITIONS, FLOORS, WALLS OR MEMBRANES. PROVIDE ALL FIRESTOPPING REQUIRED TO COMPLY WITH THE BUILDING CODE, THE ELECTRICAL CODE AND THE UL LISTING OF EACH ASSEMBLY. COORDINATE LOCATIONS AND TYPES OF MEMBRANES WITH ARCHITECT.

FIRE ALARM RISER NOTES

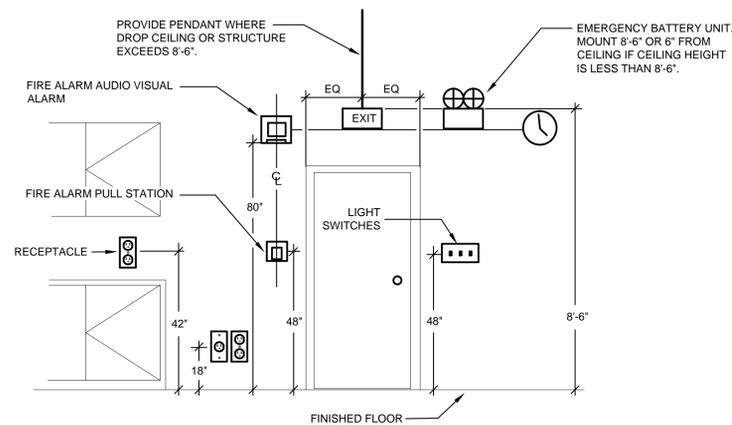
- PROVIDE FIRE ALARM ISOLATION MODULE AT THE BEGINNING AND END OF EACH LOOP OF INITIATING DEVICES. ALSO PROVIDE FIRE ALARM ISOLATION MODULE AT A MAXIMUM OF EVERY 25 DEVICES ON LOOP.
- PROVIDE 20 AMP CIRCUIT (2#12 + #12 GND. IN 3/4" C.) FROM SPARE BREAKER IN LOCAL 120/208V PANEL FOR EACH NEW NAC PANEL. PROVIDE BREAKER LOCK-ON DEVICE.
- GROUND NEW NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL. PER LATEST EDITION OF NATIONAL ELECTRICAL CODE.
- UPON ACTIVATION OF THE FIRE ALARM SYSTEM A CONTROL MODULE SHALL BE TIED INTO THE LIGHTING CONTROL PANEL "DPI" TO AUTOMATICALLY BRING ALL LIGHTING UP TO FULL BRIGHTNESS. FIELD VERIFY EXACT WIRING REQ'TS WITH MANUFACTURER'S REPRESENTATIVE.
- UPON ACTIVATION OF THE SPRINKLER SYSTEM FLOW SWITCHES, THE FIRE ALARM SYSTEM SHALL BE SET INTO ALARM VIA A MONITOR MODULE. FIELD VERIFY EXACT PROGRAMMING & WIRING REQ'TS. WITH FIRE DEPARTMENT.
- UPON ACTIVATION OF THE SPRINKLER SYSTEM TAMPER AND / OR PRESSURE SWITCHES, THE FIRE ALARM SYSTEM SHALL BE SET INTO "SUPERVISORY" VIA A MONITOR MODULE. SYSTEM NOTIFICATION SHALL BE SET INTO ALARM. FIELD VERIFY EXACT PROGRAMMING & WIRING REQ'TS. WITH FIRE DEPARTMENT.

FIRE ALARM LEGEND

<p>FACP FIRE ALARM SYSTEM CONTROL PANEL.</p> <p>M FIRE ALARM SYSTEM, RADIO / MASTER-BOX. PROVIDE ALL REQUIRED ACCESSORIES, ANTENNA, CABLE, ETC. VERIFY EXACT MUNICIPAL NOTIFICATION REQUIREMENT'S WITH LOCAL FIRE DEPARTMENT.</p> <p>WP K FIRE ALARM SYSTEM, WEATHER-PROOF KNOX BOX.</p> <p>60cd F FIRE ALARM SYSTEM, HORN/STROBE DEVICE, SUB-SCRIPT INDICATES CANDELA RATING.</p> <p>WP F FIRE ALARM SYSTEM, WEATHER-PROOF HORN/STROBE DEVICE, LOCATED ON THE EXTERIOR OF THE BUILDING AT THE ENTRANCE / LOCATION OF FACP.</p> <p>R FIRE ALARM SYSTEM, RELAY.</p> <p>F FIRE ALARM SYSTEM, PULL STATION DEVICE.</p> <p>MM FIRE ALARM MONITOR MODULE.</p> <p>CM FIRE ALARM CONTROL MODULE.</p>	<p>S FIRE ALARM SYSTEM, SMOKE DETECTOR.</p> <p>S FIRE ALARM SYSTEM, DUCT SMOKE DETECTOR LOCATED IN THE DUCTWORK OF HVAC UNITS WITH 2000 CFM (OR) GREATER.</p> <p>TS FIRE ALARM SYSTEM, DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH INDICATOR LIGHT.</p> <p>190' FT H FIRE ALARM SYSTEM, FIXED TEMPERATURE HEAT DETECTOR, SUB-SCRIPT INDICATES TEMPERATURE RATING. (SUITABLE FOR 50'-0" "ON CENTER" MOUNTING)</p> <p>B SPRINKLER SYSTEM ELECTRIC BELL BY OTHERS. CONTRACTOR SHALL PROVIDE MONITOR MODULE TO TIE INTO FIRE ALARM SYSTEM. COORD. TIE-IN.</p> <p>PS SPRINKLER SYSTEM PRESSURE SWITCH BY OTHERS. CONTRACTOR SHALL PROVIDE MONITOR MODULE TO TIE INTO FIRE ALARM SYSTEM. COORD. TIE-IN.</p> <p>FS SPRINKLER SYSTEM FLOW SWITCH BY OTHERS. CONTRACTOR SHALL PROVIDE MONITOR MODULE TO TIE INTO FIRE ALARM SYSTEM. COORD. TIE-IN.</p> <p>TS SPRINKLER SYSTEM TAMPER SWITCH BY OTHERS. CONTRACTOR SHALL PROVIDE MONITOR MODULE TO TIE INTO FIRE ALARM SYSTEM. COORD. TIE-IN.</p>
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SEISMIC RESTRAINT NOTE

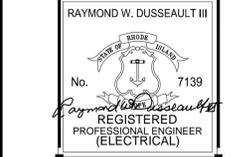
- A. **GENERAL:** IT IS THE INTENT OF THIS SEISMIC SPECIFICATION TO KEEP ALL ELECTRICAL BUILDING SYSTEM COMPONENTS IN PLACE DURING A SEISMIC EVENT. ALL ELECTRICAL SYSTEMS MUST BE INSTALLED IN STRICT ACCORDANCE WITH SEISMIC CODES, COMPONENT MANUFACTURER'S AND BUILDING CONSTRUCTION STANDARDS. WHENEVER A CONFLICT OCCURS BETWEEN THE MANUFACTURER'S OR CONSTRUCTION STANDARDS, THE MOST STRINGENT SHALL APPLY.
- B. THIS CONTRACTOR SHALL ENGAGE A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE JURISDICTION OF THIS PROJECT TO REVIEW THE ENTIRE INSTALLATION TO DETERMINE ALL SEISMIC RESTRAINT REQUIREMENTS AND METHODS. CONTRACTOR SHALL SUBMIT A REPORT OUTLINING THE STRUCTURAL ENGINEER'S REVIEW AS WELL AS SEISMIC RESTRAINT SHOP DRAWINGS AND SUPPORTING CALCULATIONS PREPARED BY THE PROFESSIONAL STRUCTURAL ENGINEER FOR REVIEW BY THE ARCHITECT.
- C. SEISMIC RESTRAINTS SHALL BE DESIGNED IN ACCORDANCE WITH SEISMIC FORCE LEVELS AS DETAILED IN THE APPLICABLE BUILDING CODE.
- ALL EQUIPMENT, CONDUIT AND PULL BOXES SHALL BE ADEQUATELY RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED TO MEET SEISMIC REQUIREMENTS AS DEFINED IN THE LATEST ISSUE OF THE BOCA NATIONAL BUILDING CODE IN ACCORDANCE WITH THE APPLICABLE SEISMIC ZONE.
 - ANCHOR BOLT CALCULATORS, SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER, SHALL BE SUBMITTED SHOWING ADEQUACY OF THE BOLT SIZING AND TYPE. STAMPED CALCULATIONS SHALL ALSO BE FURNISHED FOR ANCHORS ON RESTRAINT DEVICES, CABLES, ISOLATORS AND RIGIDLY MOUNTED EQUIPMENT.



NOTE:
THIS DETAIL INDICATES CENTERLINE FOR FIRE ALARM/PULL STATION SWITCHES AND RECEPTACLES. HOWEVER THIS SAME CENTERLINE PRINCIPLE SHALL BE FOR ALL GROUP MTD. ELECTRICAL DEVICES. IF FIRE ALARM IS ON SAME SIDE OF DOOR AS SWITCHES, PULL STATION SHALL BE HORIZONTALLY SEPARATED BY A MINIMUM OF 18". THIS ELEVATION IS A GENERAL ARRANGEMENT OF DEVICES. ARCHITECT PLANS TAKE PRECEDENCE FOR EXACT LOCATIONS.

MOUNTING HEIGHT DETAIL

NOT TO SCALE



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CONSULTANT



**MBA SUITE CONVERSION
of ROOMS 435, 436, 437
UNIVERSITY
OF RHODE ISLAND**

**PROVIDENCE CAMPUS
80 WASHINGTON STREET
PROVIDENCE, RI**

**URI PROJECT No.
PV.M.MISC.2014.002**

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SHEET TITLE

**LIFE SAFETY:
LEGEND, RISER DIAGRAM, DETAIL,
AND NOTES**

REVISIONS

**DRAWN: TMW DATE: 07/09/2014
CHK BY: RUD JOB NO: 14140-63**

LS1.1

SHEET OF



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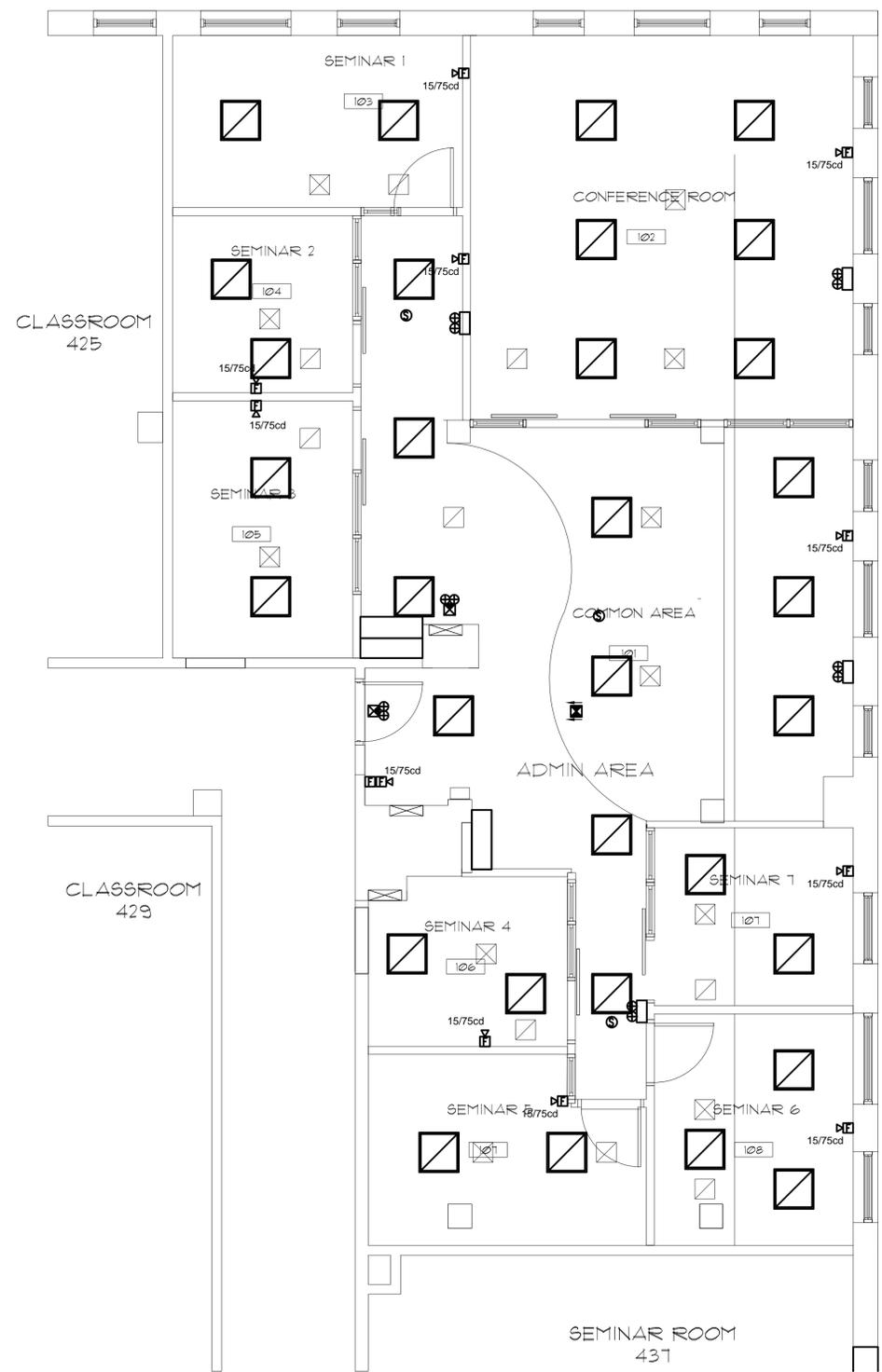
SHEET TITLE
LIFE SAFETY:
FLOOR PLAN, LEGEND, AND NOTES

REVISIONS

DRAWN: TMU DATE: 07/08/2014
CHK BY: RUD JOB NO: 14140-63

LS1.2

SHEET OF



1 FLOOR PLAN
LS1.2 SCALE: 1/4"=1'-0"

12-VOLT SYSTEM VOLTAGE DROP TABLE

TOTAL WATTS ON WIRE RUN	12	10	8	6
6	378	600	955	1518
7	324	515	818	1301
8	283	450	716	1138
10	226	360	570	910
12	178	283	450	715
14	162	257	409	650
16	133	212	338	538
18	113	189	300	477
20	113	180	286	455
24	108	171	273	434
21	89	141	225	357
25	86	136	216	344
30	75	120	190	303
35	65	103	164	260
40	53	85	135	214
48	44	70	112	178
50	43	68	108	172
75	28	45	72	115
100	21	34	54	86
125	17	27	43	69
150	14	23	36	57
175	12	19	31	49
200	10	16	27	42
225	10	16	25	40
250	9	14	22	36
CONSTANT	2267	3604	5730	9109

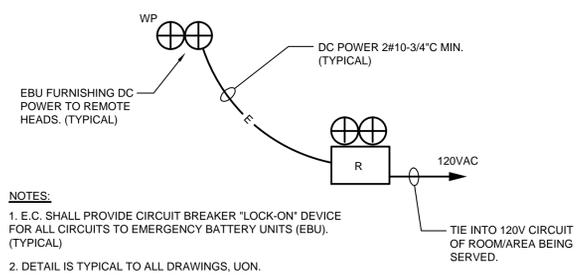
MAXIMUM LENGTH OF RUN IN FEET

EMERGENCY LIGHTING NOTE

ALL NEW INDICATED EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE TIED INTO A LOCAL AREA LIGHTING CIRCUIT(S). THESE FIXTURES SHALL BE CIRCUITED AHEAD OF ANY / ALL SWITCHING, AND SHALL BE UN-SWITCHED.

EMERGENCY LIGHTING SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
	EMERGENCY BATTERY UNIT LIGHTING FIXTURE. EQUAL TO LITHONIA, CAT. #ELM2-SD. <i>(PROVIDE WITH WHITE HOUSING.)</i>	WALL
	DUAL EMERGENCY WALL MOUNTED LIGHTING FIXTURE WITH INTERGRAL BATTERY BACK-UP. E.C. TO PROVIDE ALL NECESSARY ACCESSORIES. EQUAL TO EMERGITLITE, CAT. #RTN-70-2(35)-ADNA. <i>(PROVIDE WITH WHITE HOUSING.)</i>	WALL
	DUAL EMERGENCY CEILING MOUNTED LIGHTING FIXTURE WITH INTERGRAL BATTERY BACK-UP. E.C. TO PROVIDE ALL NECESSARY ACCESSORIES. EQUAL TO EMERGITLITE, CAT. #RTN-70-2(35)-ADNA. <i>(PROVIDE WITH WHITE HOUSING.)</i>	CEILING
	SINGLE FACE LED EDGE-LIT EXIT SIGN WITH EMERGENCY BATTERY BACK-UP. EQUAL TO LITHONIA, CAT. #EDG-1-G-EL-SD. PROVIDE ARROWS WHERE INDICATED ON PLANS. SIGN CANOPY AND BACK-BOX SHALL BE RECESSED IN CEILING. <i>(PROVIDE WITH GREEN ILLUMINATION.)</i>	RECESSED
	DOUBLE FACE LED EDGE-LIT EXIT SIGN WITH EMERGENCY BATTERY BACK-UP. EQUAL TO LITHONIA, CAT. #EDG-3-G-EL-SD. PROVIDE ARROWS WHERE INDICATED ON PLANS. SIGN CANOPY AND BACK-BOX SHALL BE RECESSED IN CEILING. <i>(PROVIDE WITH GREEN ILLUMINATION.)</i>	RECESSED
	DUAL EMERGENCY LIGHTING FIXTURE WIRED TO "EBU" OR "X4". LAMPS SHALL BE TUNGSTEN, 6-WATTS / 6-VOLTS FOR EACH LAMP. EQUAL TO LITHONIA, CAT. #ELA-T-N1206. <i>(PROVIDE WITH WHITE HOUSING.)</i>	CEILING
	SINGLE FACE LED LIGHTED EXIT SIGN WITH EMERGENCY LIGHTING HEADS, BATTERY BACK-UP & SPARE CAPACITY FOR REMOTE LIGHTING HEADS. EQUAL TO LITHONIA, CAT. #LHM-S-W-3-G-120/277-HO. PROVIDE ARROWS WHERE INDICATED ON PLANS. <i>(PROVIDE WITH GREEN ILLUMINATION.)</i>	UNIVERSAL



- NOTES:
- E.C. SHALL PROVIDE CIRCUIT BREAKER "LOCK-ON" DEVICE FOR ALL CIRCUITS TO EMERGENCY BATTERY UNITS (EBU). (TYPICAL)
 - DETAIL IS TYPICAL TO ALL DRAWINGS, UON.

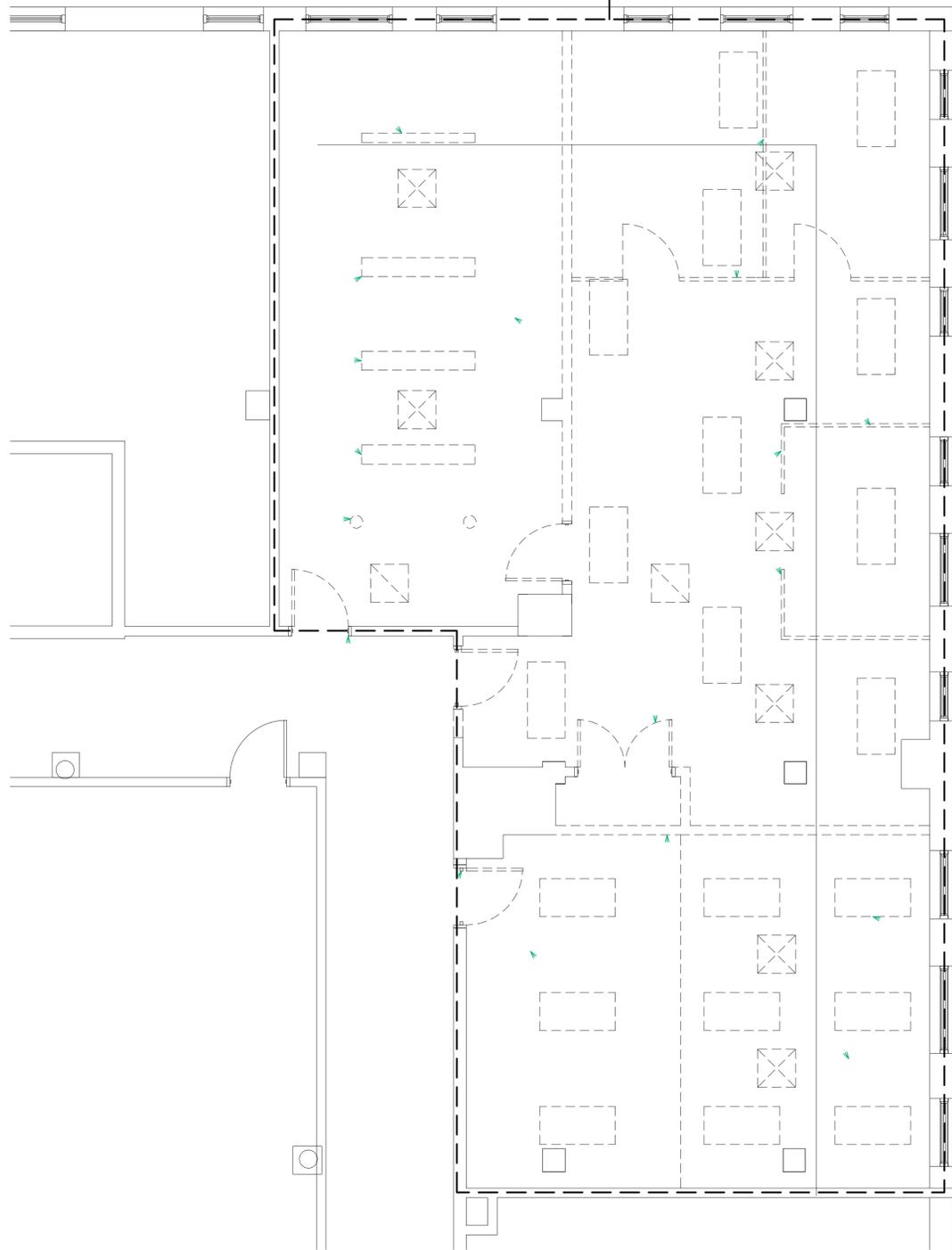
TYPICAL EMERGENCY LIGHTING CONNECTION DETAIL
NOT TO SCALE

MECHANICAL EQUIPMENT CONNECTION NOTE:
CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MECHANICAL EQUIPMENT LOCATED IN SPACE. ANY EQUIPMENT RATED AT 2000CFM OR GREATER SHALL BE SUPPLIED WITH A FIRE ALARM SYSTEM DUCT-SMOKE DETECTOR LOCATED IN THE SUPPLY DUCT, WITH A FIRE ALARM SYSTEM RELAY TO SHUT-DOWN UNIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM. A DEDICATED TEST SWITCH FOR THE DUCT-SMOKE DETECTOR SHALL BE LOCATED AT ENTRANCE TO SPACE AS APPROVED BY LOCAL FIRE DEPT.



KEY PLAN

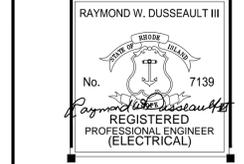
DEMOLITION NOTE:
 CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN THIS AREA. ALL EXISTING CIRCUITS SHALL BE TRACED BACK TO SOURCE, LABELED, AND UTILIZED FOR NEW WORK SCOPE. REFER TO NEW WORK ELECTRICAL PLANS FOR ADDITIONAL SCOPE OF WORK.



1 DEMOLITION PLAN
 ED11 SCALE: 1/4"=1'-0"

TYPICAL DEMOLITION NOTES

1. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL OF THE ARCHITECTS AND OTHER TRADES DRAWINGS TO VERIFY ALL AREAS OF RENOVATION AND TO GET A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED BY THIS PROJECT.
2. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. RENOVATION WORK WILL REQUIRE CAREFUL SITE EXAMINATION PRIOR TO BIDDING. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER.
3. COORDINATE ALL WORK WITH THE BUILDING OWNER 10 DAYS PRIOR TO DISRUPTION TO ANY POWER.
4. DISCONNECT AND REMOVE ALL FIXTURES, WIRING DEVICES, CONDUIT AND FITTINGS, WIRING & CABLE, FIRE ALARM DEVICES/COMPONENTS, HANGERS, SUPPORTS, WIREWAYS, AND ALL OTHER ELECTRICAL COMPONENTS MADE OBSOLETE BY THIS PROJECT.
5. REFER TO ALL CONSTRUCTION DOCUMENTS TO GAIN A COMPLETE UNDERSTANDING OF THE DEMOLITION WORK REQUIRED.
6. ALL HVAC UNITS SCHEDULED TO BE REMOVED OR RE-LOCATED SHALL BE DONE SO BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND MAKE-SAFE FOR REMOVAL.
7. TEMPORARY WALL OPENINGS AND/OR MODIFICATIONS REQUIRED FOR REMOVAL/INSTALLATION OF EQUIPMENT SHALL BE PROVIDED AS NEEDED AND COORDINATED WITH THE GENERAL CONTRACTOR.
8. CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS AS INDICATED, INCLUDING, BUT NOT LIMITED TO, REMOVAL OF ELECTRICAL ITEMS INDICATED TO BE REMOVED AND ITEMS MADE OBSOLETE BY THE WORK. THE OWNER RESERVES THE OPTION OF SALVAGE RIGHTS TO DEMOLISHED MATERIAL AND REMOVED EQUIPMENT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO OBTAIN A LIST OF MATERIALS AND REMOVED EQUIPMENT TO BE TURNED OVER TO THE OWNER. ALL OTHER MATERIAL AND REMOVED EQUIPMENT NOT BEING SALVAGED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
9. PROTECT THE STRUCTURE, FURNISHINGS, FINISHES, AND ADJACENT MATERIALS NOT INDICATED OR SCHEDULED TO BE REMOVED. PROTECT THE ELECTRICAL WORK AND THE WORK OF OTHERS IN A MANNER BEST SUITED TO THE PARTICULAR CASE. CORRECT ANY DAMAGE DONE TO ANY WORK AT NO ADDITIONAL COST.
10. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE SPREAD OF DUST AND DIRT TO ADJACENT AREAS.
11. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
12. THESE DRAWINGS HAVE BEEN COMPILED FROM THE BEST AVAILABLE INFORMATION AND ARE NOT INTENDED TO LIMIT THE SCOPE OF THE WORK. THE ELECTRICAL CONTRACTOR MAY ENCOUNTER HIDDEN OR COVERED CONDITIONS, NOT INDICATED IN THESE DOCUMENTS, REQUIRING THE ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL WORK FOR THE COMPLETION OF HIS OR HER CONTRACT. IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INSPECTED THE SITE PRIOR TO BIDDING AND VERIFIED THE INFORMATION SUPPLIED HEREIN.
13. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
 - a. EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AND ARCHITECT/ENGINEER AT LEAST TEN DAYS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA AS REQUIRED.
 - b. EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL THE MODIFIED/EXPANDED SYSTEM IS TESTED AND ACCEPTED BY THE FIRE DEPARTMENT. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER, ARCHITECT/ENGINEER AND LOCAL FIRE DEPARTMENT AT LEAST TEN DAYS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA AS REQUIRED OR PROVIDE A "FIRE-WATCH" SYSTEM COORDINATED WITH THE LOCAL FIRE DEPARTMENT.
 - c. EXISTING TELEPHONE & DATA SYSTEMS: MAINTAIN EXISTING SYSTEM IN SERVICE COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER, ARCHITECT/ENGINEER AND TELEPHONE UTILITY COMPANY AT LEAST TEN DAYS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
14. PROTECT ALL EXISTING WALLS, FLOORS, CEILINGS, LIGHT FIXTURES, ETC. WHICH ARE TO REMAIN & TO PREVENT DAMAGE DURING ALL CONSTRUCTION PHASES



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 of ROOMS 435, 436, 437
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URI PROJECT No.
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SHEET TITLE
 ELECTRICAL
 DEMOLITION FLOOR PLAN

REVISIONS	

DRAWN: TMW	DATE: 07/09/2014
CHK BY: RLWD	JOB NO: 14140-63

ED1.1

SHEET OF



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**SHEET TITLE
ELECTRICAL
LEGENDS, DETAILS, AND NOTES.**

REVISIONS	

**DRAWN: TMW DATE: 07/08/2014
CHK BY: RLUD JOB NO: 14140-63**

E1.1

SHEET OF

TYPICAL FIRE STOPPING NOTES

- GENERAL FIRE STOPPING SHALL BE PROVIDED BY THIS CONTRACTOR FOR ALL FLOOR, CEILING AND FIRE RATED WALL PENETRATIONS FOR CONDUIT, SLEEVES AND/OR CABLING AS REQUIRED BY JOB CONDITIONS.
- THE CONTRACTOR SHALL PROVIDE A FIRE STOP SYSTEM IN ACCORDANCE WITH THE FOLLOWING:
 - THE SYSTEM SHALL CONSIST OF A WATERBASED SEALANT AND SUITABLE DAMMING MATERIALS (WHERE REQUIRED) AND BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.
 - THE SEALANT SUPPLIED SHALL BE A TWO STAGED INTUMESCENT AND CAPABLE OF EXPANDING UP TO 8 TIMES ITS ORIGINAL VOLUME.
 - THE SEALANT SUPPLIED SHALL CONTAIN NO ASBESTOS, NO FIBERGLASS, AND NO SOLVENTS NOT CORROSIVE MINERAL SALTS OF ANY KIND.
 - THE SEALANT SHALL FORM A SURFACE CAPABLE OF BEING SANDED AND PAINTED TO MATCH SURROUNDING SURFACES AND SHALL BE IMPERVIOUS TO WATER WHEN DRY.
 - THE FIRE STOP SYSTEM SHALL BE TESTED TO THE TIME/TEMPERATURE REQUIREMENTS OF ASTM E119 AND SHALL BE UL1479 (ASTM E814) AND CLASSIFIED FOR UP TO 3 HOURS.
 - THE FIRE STOP SEALANT SHALL BE SPECSEAL SEALANT AS MANUFACTURED BY SPECIFIED TECHNOLOGIES, INC. OR APPROVED EQUAL.
 - SPECIAL CARE SHALL BE TAKEN WITH ELECTRICAL SYSTEMS NOT TO COMPROMISE ANY OF THE BUILDING FIRE PARTITIONS, FLOORS, WALLS OR MEMBRANES. PROVIDE ALL FIRESTOPPING REQUIRED TO COMPLY WITH THE BUILDING CODE, THE ELECTRICAL CODE AND THE UL LISTING OF EACH ASSEMBLY. COORDINATE LOCATIONS AND TYPES OF MEMBRANES WITH ARCHITECT.

NOTES FOR ALUMINUM EQUIPMENT

- THESE DRAWINGS ARE BASED ON THE USE OF COPPER IN CONDUCTORS, TRANSFORMER WINDINGS, SWITCHBOARDS, DISTRIBUTION PANELBOARDS, BRANCH CIRCUIT PANELBOARDS, LOAD CENTERS, DISCONNECT SWITCHES & CIRCUIT BREAKERS.
- ALTHOUGH PERMITTED BY CODE, THIS OFFICE DOES NOT RECOMMEND THE USE OF ALUMINUM ELECTRICAL EQUIPMENT.
- USE OF ALUMINUM CONDUCTORS, TRANSFORMERS WITH ALUMINUM WINDINGS AND SWITCHBOARDS, DISTRIBUTION PANELBOARDS, BRANCH CIRCUIT PANELBOARDS, LOAD CENTERS, DISCONNECT SWITCHES & CIRCUIT BREAKERS WITH ALUMINUM BUS IS AT THE DISCRETION & DECISION OF THE OWNER.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE ALL CONDUCTOR AND CONDUIT SIZES, PER NEC. SHOULD ALUMINUM BE USED.
 - IF ALUMINUM EQUIPMENT IS USED IN ANY OF THE ELECTRICAL COMPONENTS OF ITEM "1" ABOVE, THE FOLLOWING PROCEDURE SHALL BE FOLLOWED:
 - INSTALLATION SHALL BE IN ACCORDANCE WITH IEEE STD. 341-1990, PARAGRAPH 8.7.2
 - WHEN CUTTING CABLE, AVOID NICKING THE STRANDS.
 - UNPATED CONTACT SURFACES SHALL BE CLEANED WITH WIREBRUSH, STEEL WOOL, EMERY CLOTH OR SIMILAR ABRASIVE TOOL OR MATERIAL.
 - PLATED SURFACES SHALL BE CLEANED WITH AN APPROVED SOLVENT.
 - APPLY JOINT COMPOUND TO THE CONDUCTOR IF THE CONNECTOR DOES NOT ALREADY HAVE IT.
 - USE ONLY CONNECTORS SPECIFICALLY TESTED AND APPROVED FOR USE ON ALUMINUM CONDUCTORS.
 - REFER TO ANSIVIA/IEEE-195.
 - ON MECHANICAL CONNECTORS, TIGHTEN THE CONNECTOR WITH A SCREWDRIVER OR WRENCH TO THE REQUIRED TORQUE. REMOVE EXCESS COMPOUND.
 - ON COMPRESSION CONNECTORS, CRIMP THE CONNECTOR USING THE PROPER TOOL AND DIE. REMOVE EXCESS COMPOUND.
 - ALWAYS USE JOINT COMPOUND THAT IS COMPATIBLE WITH THE INSULATION AND AS RECOMMENDED BY THE MANUFACTURER.
 - WHEN MAKING AN ALUMINUM-TO-COPPER CONNECTION THAT IS EXPOSED TO MOISTURE, PLACE THE ALUMINUM CONDUCTOR ABOVE THE COPPER. IF THERE IS NO EXPOSURE TO MOISTURE, THE RELATIVE POSITION OF THE TWO METALS IS NOT IMPORTANT.
 - WHEN USING INSULATED CONDUCTORS OUTDOORS, EXTEND THE CONDUCTOR INSULATION OR COVERING AS CLOSE TO THE CONNECTOR AS POSSIBLE TO MINIMIZE WEATHERING THE JOINT. OUTDOOR JOINTS SHALL BE COMPLETELY PROTECTED BY TAPE OR OTHER MEANS. WHEN OUTDOOR JOINTS ARE COVERED OR PROTECTED, THE PROTECTION SHALL COMPLETELY EXCLUDE MOISTURE.
- WHEN ALUMINUM FEEDERS ARE INCLUDED AS V.E. ITEMS, IT IS RECOMMEND THAT ALUMINUM BE USED ONLY FOR DISTRIBUTION FEEDERS LARGER THAN NO. 4 PROVIDED THAT COMPRESSION ALU/PN TERMINATIONS ARE UTILIZED. VOLTAGE DROP CALCULATIONS SHALL BE REVISED UTILIZING ALUMINUM CONDUCTORS. IT IS NOT RECOMMEND THAT ALUMINUM FEEDERS BE UTILIZED FOR ROTATING MOTORS OR VIBRATING TRANSFORMERS OR EQUIPMENT.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG No.	MOUNTING	LAMPING			VOLT.	DESCRIPTION / REMARKS
				TYPE	WATTAGE	QUANTITY		
A	LITHONIA LIGHTING	2FSL2-33L-EZ1-LP835-N80	RECESSED	LED	35	-	120	2' X 2' RECESSED VOLUMETRIC TROFFER.
B	LITHONIA LIGHTING	2FSL2-33L-EZ1-LP835-N80	RECESSED	LED	35	-	120	2' X 2' RECESSED VOLUMETRIC TROFFER. (PROVIDE WITH DIMMING DRIVER.)

CBA = COLOR TO BE SELECTED BY ARCHITECT (THE ELECTRICAL CONTRACTOR SHALL VERIFY COLOR & FINISH WITH ARCHITECT PRIOR TO SUBMITTAL OF SHOP DRAWINGS.
CC = CUSTOM COLOR TO BE SELECTED BY ARCHITECT (THE ELECTRICAL CONTRACTOR SHALL VERIFY CUSTOM COLOR & FINISH WITH ARCHITECT PRIOR TO SUBMITTAL OF SHOP DRAWINGS.)

NOTES:

- ALL FLUORESCENT LAMPS AND BALLASTS SHALL COMPLY WITH NATIONAL GRID SUPER T8 INCENTIVATED.
- ALL PENDANT MOUNTED LIGHTING FIXTURES SHALL BE COORDINATED CEILING HEIGHTS AND ARCHITECT FOR PROPER HEIGHT OF THE BOTTOM OF THE FIXTURES

ABBREVIATIONS

A AMPERES	FLR FLOOR	NTS NOT TO SCALE
ADA AMERICANS WITH DISABILITIES ACT	G.C. GENERAL CONTRACTOR	"NL" UNSWITCHED, "NITE-LIGHT"
AMPS AMPERES	GFCI GROUND FAULT CIRCUIT INTERRUPTER	P POLE
AFF ABOVE FINISHED FLOOR	G GROUND	PNL PANEL
AC AIR CONDITIONING	GND GROUND	TBD <u>"TO BE DETERMINED"</u> BY OTHERS, IN FIELD.
AWG AMERICAN WIRE GAGE	HVAC HEATING, VENTILATING, & AIR CONDITIONING	TYP TYPICAL
BLDG. BUILDING	JB JUNCTION BOX	UL UNDERWRITERS LABORATORY
C CONDUIT	KVA KILOVOLT AMPERES	UN UNLESS OTHERWISE NOTED
CLG CEILING	KW KILOWATT	V VOLTS
DN DOWN	LTG LIGHTING	W WATTS
DWG DRAWING	MAX MAXIMUM	WH WATER HEATER
E.C. ELECTRICAL CONTRACTOR	MECH MECHANICAL	WP WEATHER-PROOF
EPO EMERGENCY POWER OFF	MIN MINIMUM	Ɔ CENTERLINE
EQ EQUAL	MTD MOUNTED	F.A. FIRE ALARM
ER EXISTING TO BE REMOVED	NAC F.A. NOTIFICATION APPLIANCE CIRCUIT EXPANDER PANEL	FACP FIRE ALARM CONTROL PANEL
ERN EXISTING TO REMAIN		
ERL EXISTING TO BE RE-LOCATED		

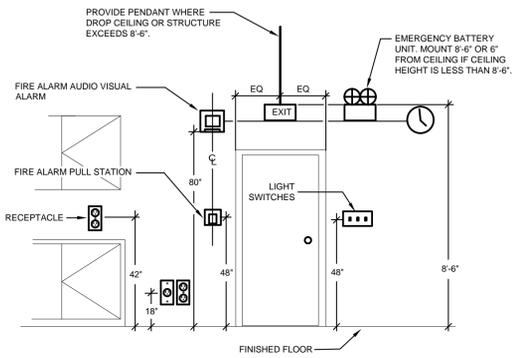
ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MOUNTING
Ⓚ 2	DUPLEX CONVENIENCE OUTLET, 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT "2" INDICATES CIRCUIT NUMBER)	18" A.F.F.
Ⓚ	DUPLEX CONVENIENCE OUTLET, MOUNTED ABOVE COUNTER, 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT "2" INDICATES CIRCUIT NUMBER)	48" A.F.F. ABOVE COUNTER
Ⓚ	QUAD-RUPLEX CONVENIENCE OUTLET, 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE. (SUBSCRIPT "2" INDICATES CIRCUIT NUMBER)	18" A.F.F.
Ⓚ 2	DUPLEX CONVENIENCE OUTLET, 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. (SUBSCRIPT "2" INDICATES CIRCUIT NUMBER, "WP" INDICATES WEATHER PROOF WITH "WHILE-IN-USE COVER")	18" A.F.F.
Ⓚ 2	DUPLEX CONVENIENCE OUTLET, 125 VOLT, 20 AMPERE, U-SLOT GROUNDING TYPE WITH GROUND FAULT PROTECTION. (SUBSCRIPT "2" INDICATES CIRCUIT NUMBER, "WP" INDICATES WEATHER PROOF WITH "WHILE-IN-USE" COVER)	48" A.F.F.
Ⓚ	JUNCTION BOX; SIZE AS REQUIRED PER CODE.	
Ⓚ	TEL/DATA OUTLET; PROVIDE 3/4" W/ PULL STRING FROM OUTLET TO ABOVE DROP CEILING & HOMERUN CABLE TO TERMINATION POINT.	18" A.F.F.
Ⓚ	TELEPHONE OUTLET; PROVIDE 3/4" W/ PULL STRING FROM OUTLET TO ABOVE DROP CEILING & HOMERUN CABLE TO TERMINATION POINT.	18" A.F.F.
Ⓚ	DATA OUTLET; PROVIDE 3/4" W/ PULL STRING FROM OUTLET TO ABOVE DROP CEILING & HOMERUN CABLE TO TERMINATION POINT.	18" A.F.F.
Ⓚ	MOTOR	
Ⓚ	PANELBOARD SURFACE MOUNTED; 208Y/120V, 3-PHASE, 4-WIRE. REFER TO "BRANCH CIRCUIT PANELBOARD SCHEDULES" ON PLANS FOR APPLICABLE INFORMATION.	MOUNT 6'-6" AFF TO TOP BREAKER.
Ⓚ	HOMERUN TO PANELBOARD (LOADCENTER); "1" INDICATES PANEL, "1,3" INDICATES CIRCUIT NUMBERS. REFER TO "TYPICAL CIRCUITING DETAIL" ON PLANS.	MOUNT TO FIXTURE / MTO, J-BOX.
Ⓚ	PROVIDE A CEILING MOUNTED MOTION SENSOR MANUFACTURED BY "SENSOR SWITCH", CAT. #CM-PDT-9, OR (APPROVED EQUAL) FIELD VERIFY EXACT WIRING REQTS.	48" AFF
Ⓚ	PROVIDE A WALL MOUNTED MOTION SENSOR MANUFACTURED BY "SENSOR SWITCH", CAT. #WSX-PDT-WH, OR (APPROVED EQUAL), FIELD VERIFY EXACT WIRING REQTS.	48" AFF
Ⓚ	PROVIDE A REMOTE POWER PACK FOR CEILING MOUNTED MOTION SENSOR MANUFACTURED BY "SENSOR SWITCH", CAT. #PP20, OR (APPROVED EQUAL), PROVIDE POWER PACK FOR EACH CEILING SENSOR. FIELD VERIFY EXACT WIRING REQTS.	48" AFF
Ⓚ	THREE-WAY SWITCH; "3" INDICATES LIGHTING FIXTURES CONTROLLED.	48" AFF
Ⓚ	SINGLE POLE SWITCH; "1" INDICATES LIGHTING FIXTURES CONTROLLED.	48" AFF
Ⓚ	FUSED DISCONNECT SWITCH; #650 INDICATES FRAME SIZE/USE SIZE IN THAT ORDER. STARTERS FOR HVAC EQUIPMENT BY MECHANICAL CONTRACTOR.	
Ⓚ	GROUND.	

TELEPHONE & DATA RACEWAY NOTES

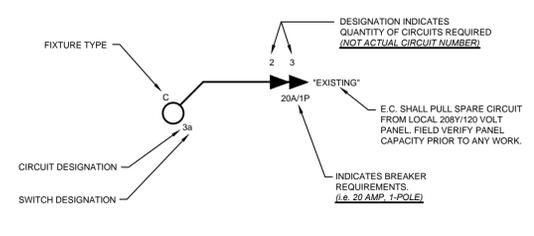
- NO SECTION OF CONDUIT SHALL BE LONGER THAN 100-FEET BETWEEN PULL POINTS.
- NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90-DEGREE BENDS, OR EQUIVALENT, BETWEEN PULL POINTS (e.g., OUTLET BOXES, TELECOMMUNICATIONS COSETS, OR PULL BOXES). IF THERE IS A REVERSE (U-SHAPED) BEND IN THE SECTION, A PULL BOX SHALL BE INSTALLED.
- THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 6 TIMES THE INTERNAL DIAMETER. BENDS IN THE CONDUIT SHALL NOT CONTAIN AND KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING CABLE PULLING OPERATIONS.
- ANY SINGLE CONDUIT RUN EXTENDING FROM A TELECOMMUNICATIONS CLOSET SHALL NOT SERVE MORE THAN THREE OUTLET BOXES.
- CONDUITS PROTRUDING / PENETRATING THROUGH THE FLOOR IN THE TELECOMMUNICATIONS CLOSETS SHALL BE TERMINATED 3-INCHES ABOVE THE FLOOR ADJACENT WALLS. PROTRUSIONS / PENETRATIONS SHALL BE LOCATED TO AVOID CREATING A TRIPPING HAZARD WITHIN THE CLOSETS. FIRESTOP ALL PROTRUSIONS / PENETRATIONS.
- (NOT USED)
- WHERE A TELECOMMUNICATIONS CONDUIT IS TO BE INSTALLED TO A DEVICE EXPOSED TO THE WEATHER, CARE SHALL BE TAKEN TO PREVENT THE INGRESS OF MOISTURE. CARE SHALL ALSO BE TAKEN TO ENSURE THAT MOISTURE WILL NOT COLLECT IN LOW POINTS, FREEZE AND DAMAGE THE CABLE. NONMETALLIC CONDUIT SHALL BE UV RESISTANT AND MARKED ACCORDINGLY.
- CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUIT SHALL BE TERMINATED WITH AN INSULATED BUSHING.
- REFER TO ANSIVIA/EIA-606 FOR ADMINISTRATION OF THE CONDUIT SYSTEM IDENTIFICATION.
- ALL CONDUITS SHALL BE PROVIDED WITH PULL STRINGS.
- ALL OUTLET BOXES SHALL BE DOUBLE-GANG TYPE WITH REDUCER RINGS (2 DATA / 1 VOICE AT EACH LOCATION). A 1" CONDUIT SHALL BE INSTALLED FOR ALL SINGLE OUTLET LOCATIONS AND A 1-1/2" CONDUIT INSTALLED FOR UP TO FOUR (4) OUTLET LOCATIONS.
- CONDUIT TYPES SHALL BE ELECTRICAL METALLIC TUBING (EMT) OR RIGID METAL CONDUIT. LOCATIONS SUBJECT TO MOISTURE SHALL BE RIGID PVC. FLEXIBLE CONDUIT SHALL NOT BE USED FOR TELE/DATA RACEWAYS.
- CONDUIT REQUIREMENTS FOR SUPPORT, END PROTECTION AND CONTINUITY SHALL COMPLY WITH APPROPRIATE ELECTRICAL CODES.
- CONDUIT AND BOXES FOR TELE/DATA WIRING SHALL BE DEDICATED TO THOSE SYSTEMS. POWER WIRING SHALL BE KEPT OUT OF CONDUIT AND BOXES DEDICATED TO TELE/DATA WIRING.
- (NOT USED)
- CONDUIT SIZE FOR MAXIMUM NUMBER OF CABLES (SEE TABLE BELOW):

Conduit Trade Size	Maximum number of cables based upon allowable fill									
	Cable Outside Diameter in Inches									
	0.13	0.18	0.22	0.24	0.29	0.31	0.37	0.53	0.62	0.70
1/2"	1	1	0	0	0	0	0	0	0	0
3/4"	6	5	4	3	2	2	1	0	0	0
1"	8	8	7	6	3	3	2	1	0	0
1-1/4"	16	14	12	10	6	4	3	1	1	1
1-1/2"	20	18	16	15	7	6	4	2	1	1
2"	30	26	22	20	14	12	7	4	3	2
2-1/2"	45	40	36	30	17	14	12	6	3	3
3"	70	60	50	40	20	20	17	7	6	6
3-1/2"	-	-	-	-	-	-	22	12	7	6
4"	-	-	-	-	-	-	30	14	12	7



NOTE:
THIS DETAIL INDICATES CENTERLINE FOR FIRE ALARM/PULL STATION SWITCHES AND RECEPTABLES. HOWEVER THIS SAME CENTERLINE PRINCIPLE SHALL BE FOR ALL GROUP MTD ELECTRICAL DEVICES. IF FIRE ALARM IS ON SAME SIDE OF DOOR AS SWITCHES, PULL STATION SHALL BE HORIZONTALLY SEPARATED BY A MINIMUM OF 18". THIS ELEVATION IS A GENERAL ARRANGEMENT OF DEVICES. ARCHITECT PLANS TAKE PRECEDENCE FOR EXACT LOCATIONS.

MOUNTING HEIGHT DETAIL
NOT TO SCALE

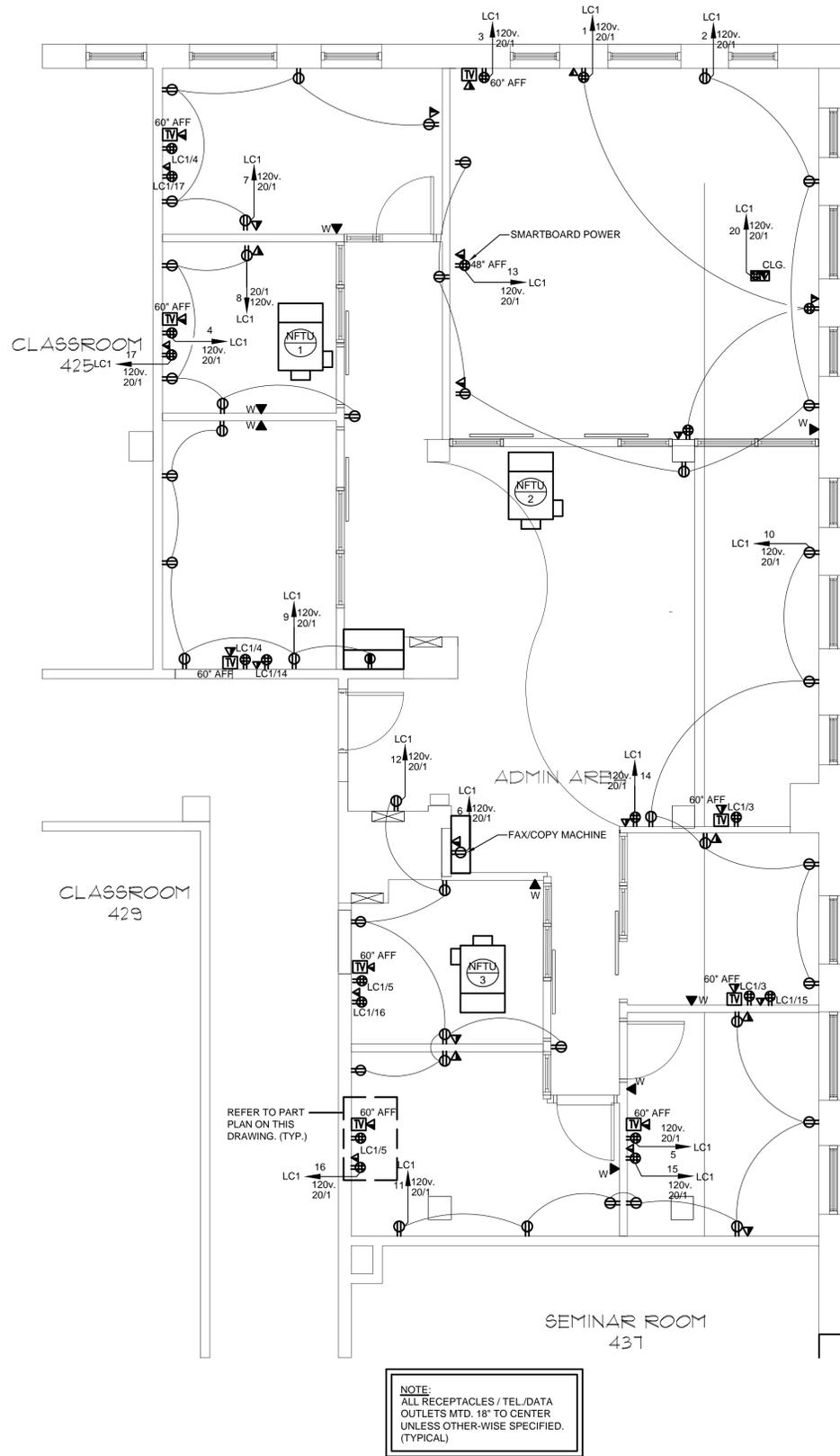


- NOTES:**
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN CONTRACT. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS BUT NOT ON PLANS, AND VICE VERSA, SHALL APPLY OR SHALL BE PROVIDED AS THOUGH EXPRESSLY REQUIRED ON BOTH. IT IS NOT INTENDED THAT EVERY JUNCTION BOX, OFFSET, FITTING OR COMPONENT BE SPECIFIED OR SHOWN ON DRAWINGS; HOWEVER, CONTRACT DOCUMENTS REQUIRE PROVISION OF ALL COMPONENTS AND MATERIALS NECESSARY FOR COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION, WHETHER OR NOT INDICATED OR SPECIFIED.
 - BRANCH CIRCUIT WIRING MAY NOT BE GRAPHICALLY SHOWN ON DRAWINGS AND MAY BE SHOWN BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT SHOWN GRAPHICALLY. WIRING IS SHOWN BY CONDUIT RUNS ON DRAWINGS WHERE SPECIFIC ROUTING IS REQUIRED OR FOR OTHER SPECIAL REASONS. ONLY ROOMS WITH MULTIPLE SWITCHING HAVE SWITCH CONTROL LETTERS ASSIGNED. PROVIDE THIN CONDUCTORS IN AREAS WITH HIGH AMBIENT TEMPERATURES SUCH AS BOILER ROOMS, INCINERATOR ROOMS, MECHANICAL EQUIPMENT ROOMS ETC., FOR SIZES LARGER THAN NO. 10 AWG.

TYPICAL CIRCUITING DETAIL
NOT TO SCALE

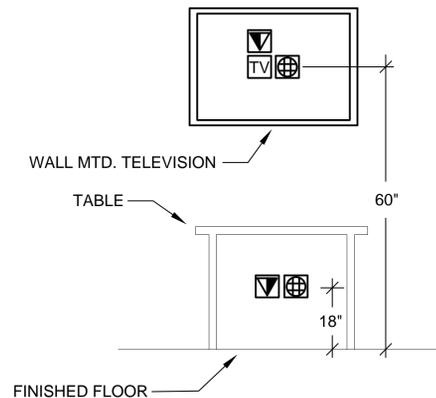


KEY PLAN

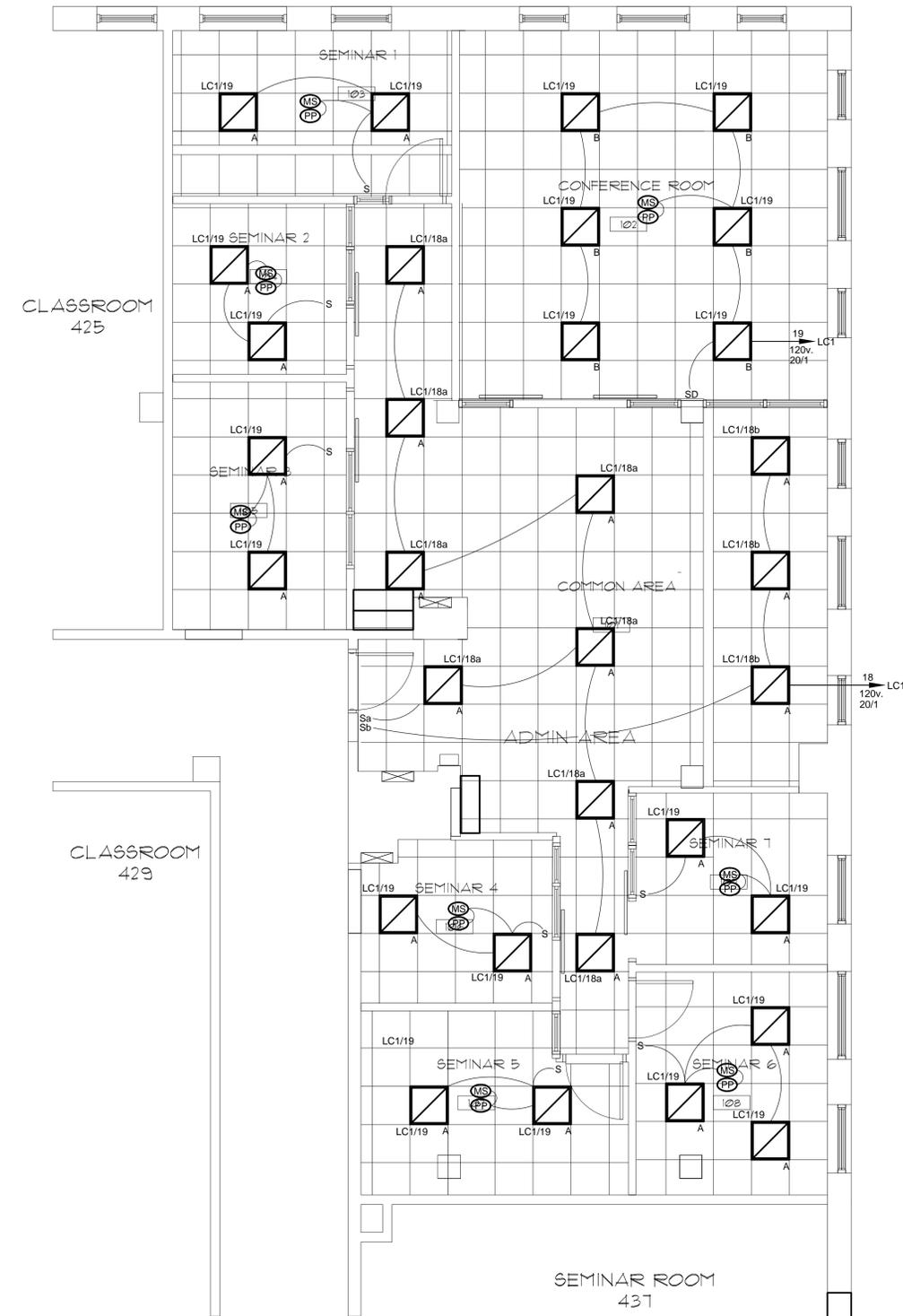


1 POWER PLAN
E2.1 SCALE: 1/4"=1'-0"

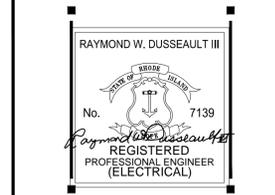
MECHANICAL EQUIPMENT CONNECTION TAG.
REFER TO "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE" ON DRAWING "E3.1" FOR ALL CIRCUITING INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUITING WIRING AND CONDUIT SIZE, VOLTAGE, PHASE, MOTOR CONTROL, DISC, SWITCH & CIRCUIT BREAKER.



SEMINAR ROOM MOUNTING HEIGHT DETAIL
NOT TO SCALE



2 LIGHTING PLAN
E2.1 SCALE: 1/4"=1'-0"



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PROVIDENCE, RI

URI PROJECT No.
PV.M.MISC.2014.002

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SHEET TITLE
ELECTRICAL:
POWER AND LIGHTING FLOOR PLANS

REVISIONS

DRAWN: TMW DATE: 07/08/2014
CHK BY: RUD JOB NO: 14140-63

E2.1

SHEET OF

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

XXX # ITEM No.	DESCRIPTION	LOCATION	EQUIPMENT CHARACTERISTICS					CIRCUIT	BRKR.	FEEDER / WIRING	DISCONNECT SWITCH				MANUAL MOTOR CONTROLLER	REMARKS
			VOLTS	PH	FREQ.	(KW) / HP	FLA				SIZE	FUSE	POLES	NEMA		
NFTU-1	FAN TERMINAL UNIT	(SEE PLANS)	277	1	60	1/12	-	EXIST. / ??	15A/1P	2#12 + 1#12 GND. IN 3/4" C.	-	-	-	-	PROVIDE MOTOR RATED TOGGLE SWITCH W/ THERMAL OVERLOADS.	TIE INTO EXISTING SPARE CIRCUIT / BREAKER IN LOCAL AREA 480Y/277 VOLT, 3-PHASE PANEL. E.C. SHALL FIELD VERIFY EXACT LOCATION & EXISTING ELECTRICAL CHARACTERISTICS.
NFTU-2	FAN TERMINAL UNIT	(SEE PLANS)	277	1	60	1/4	-			2#12 + 1#12 GND. IN 3/4" C.	-	-	-	-	PROVIDE MOTOR RATED TOGGLE SWITCH W/ THERMAL OVERLOADS.	
NFTU-3	FAN TERMINAL UNIT	(SEE PLANS)	277	1	60	1/12	-			2#12 + 1#12 GND. IN 3/4" C.	-	-	-	-	PROVIDE MOTOR RATED TOGGLE SWITCH W/ THERMAL OVERLOADS.	

NOTES:

- COORDINATE WITH HVAC CONTRACTOR & DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLING ELECTRICAL COMPONENTS.
- COORDINATE WITH PLUMBING CONTRACTOR & DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING EQUIPMENT PRIOR TO INSTALLING ELECTRICAL COMPONENTS.
- ALL DISCONNECTING MEANS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ALL STARTERS, VFD'S ETC. SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL WIRE ALL HVAC EQUIPMENT.
- ALL HVAC CONTROL WIRING SHALL BE PROVIDED BY OTHERS.

ELECTRICAL SPECIFICATIONS

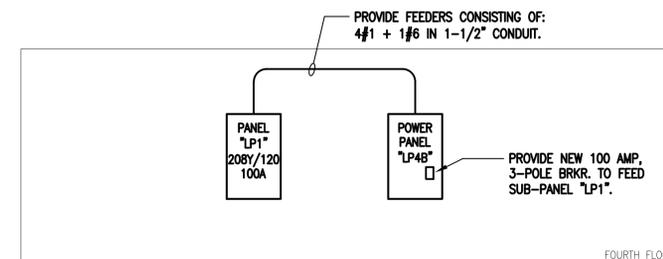
- FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE PROPER AND COMPLETE INSTALLATION OF ALL ELECTRIC WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. REFER TO THE TENANT'S LEASE INFORMATION FOR SPECIFIC REQUIREMENTS. THE TENANT'S LEASE INFORMATION SHALL SUPERCEDE THIS SPECIFICATIONS WHERE A CONFLICT OCCURS BETWEEN THE TWO.
- ALL ITEMS NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE ELECTRICAL INSTALLATION, SHALL BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT.
- ALL ELECTRICAL INSTALLATIONS AND GROUNDING SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE LOCAL, STATE AND NATIONAL CODES.
- OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- MATERIALS AND WORKMANSHIP SHALL BE THE BEST OF THEIR RESPECTIVE KIND AND IN FULL ACCORDANCE WITH THE MOST MODERN ELECTRICAL CONSTRUCTION STANDARDS. ALL MATERIAL SHALL BE NEW, UNLESS OTHERWISE NOTED AND FREE OF ANY DEFECTS.
- THE ELECTRICAL CONTRACTOR SHALL CLEAN AT THE END OF EACH DAY ALL AREAS WORKED IN. EMPTY BOXES, RUBBISH, AND OTHER CONSTRUCTION MATERIALS OF NO USE SHALL BE REMOVED FROM THE BUILDING.
- ALL WORK SEQUENCES SHALL BE COORDINATED WITH THE ARCHITECT AND SHALL BE COORDINATION WITH OTHER BUILDING TRADES AND ARCHITECTS BUILDING SCHEDULES.
- ALL BRANCH CIRCUITS RATED AT 120 VOLTS, 20 AMPERES EXCEEDING 75 FEET SHALL BE MINIMUM #10 AWG.
- ALL EQUIPMENT AND INSTALLATION OF ELECTRICAL EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- FURNISH AND INSTALL TEMPORARY POWER AS REQUIRED TO OPERATE TOOLS AND LIGHTING. PROVIDE PANELS AND LIGHTING FIXTURES FOR CONSTRUCTION AS NEEDED.
- THE ELECTRICAL CONTRACTOR (E.C.) SHALL INSPECT THE SITE, PRIOR TO SUBMITTING HIS BID, AND SHALL INVESTIGATE ALL CONDITIONS UNDER WHICH THIS WORK SHALL BE PERFORMED. FAILURE TO INSPECT EXISTING CONDITIONS OR TO FULLY UNDERSTAND THE WORK WHICH REQUIRED SHALL NOT EXCUSE THE E.C. FROM HIS OBLIGATIONS TO SUPPLY AND INSTALL THE WORK IN ACCORDANCE WITH THE SPECIFICATIONS AND THE DRAWINGS AND UNDER ALL SITE CONDITIONS AS THEY EXIST.
- THE PLANS DEPICT THE LOCATION OF ALL FIXTURE AND EQUIPMENT AND ARE INTENDED TO INDICATE THE GENERAL SCOPE OF WORK, LAYOUT AND QUALITY OF WORKMANSHIP. THEY ARE NOT INTENDED FOR THE PURPOSE OF EXECUTION OF THE WORK, BUT THE CONTRACTOR SHALL UNDERSTAND THAT SUCH DETAILS ARE PART OF THE WORK.
- THE ELECTRICAL CONTRACTOR SHALL CAREFULLY VERIFY ALL MEASUREMENTS AT THE SITE AND DETERMINE THE EXACT LOCATION OF ALL CHASES AND OPENINGS REQUIRED BY THIS WORK AND SHALL PROVIDE ALL SLEEVES, INSERTS, AND HANGERS REQUIRED.
- BRANCH CIRCUITS ADDED TO ANY EXISTING PANELBOARDS SHALL ALSO INCLUDE THE CIRCUIT BREAKER DIRECTORY TO BE UPDATED. IF NO DIRECTORY EXISTS THAN ONE SHALL BE PROVIDED INDICATING THE NEW CIRCUITS ADDED.
- WIRE AND CABLE FOR BRANCH CIRCUITS SHALL BE TYPE THWN/THHN, INSULATED FOR 600VOLTS, RATED AT 75°C MINIMUM AND UL LISTED FOR BUILDING WIRE USE. WIRE SIZE SHALL BE A MINIMUM OF #12 AWG SOLID. ALL CONDUCTORS SHALL BE COPPER. ALL WIRING SHALL BE CONCEALED AND INSTALLED IN RACEWAY. RACEWAYS SHALL BE E.M.T. WITH STEEL SET SCREW FITTINGS. METAL-CLAD CABLE TYPE MC CABLE MAY BE USED IN AREAS WHERE APPROVED BY THE LOCAL WIRING INSPECTOR.
- FIRE ALARM SYSTEM WIRING SHALL BE CONCEALED AND INSTALLED IN RACEWAY. RACEWAYS SHALL BE E.M.T. WITH STEEL SET SCREW FITTINGS WITH INSULATED THROAT. FIRE ALARM METAL-CLAD CABLE TYPE MC CABLE MAY BE USED IN AREAS WHERE APPROVED BY THE LOCAL WIRING INSPECTOR. THE MINIMUM WIRE SIZE FOR FIRE ALARM WIRING SHALL BE #14 AWG. ALL SPLICES SHALL BE MADE ON SCREW TYPE TERMINAL STRIPS. WIRE NUTS SHALL NOT BE USED. T-TAPPING OF FIRE ALARM WIRING SHALL NOT BE ALLOWED.
- RED PAINTED TERMINAL CABINETS AND BOXES WITH LOCKABLE COVERS SHALL BE PROVIDED AT ALL JUNCTION POINTS FOR FIRE ALARM SYSTEM WIRING.
- ADDITIONAL JUNCTION BOXES BEYOND THOSE SHOWN ON THE DRAWINGS SHALL BE PROVIDED AS NECESSARY FOR ALL ELECTRICAL INSTALLATIONS.
- ALL CUTTING, PATCHING AND FIRESTOPPING FOR ELECTRICAL INSTALLATIONS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- PROVIDE CONDUIT SLEEVES FILLED WITH AN APPROVED FIRE RESISTANT MATERIAL WHERE FIRE RATED WALLS, FLOORS OR CEILINGS ARE PENETRATED. APPROVED WATERTIGHT CONDUIT SLEEVES SHALL BE PROVIDED WHERE WALLS ARE PENETRATED EITHER ENTERING OR LEAVING THE BUILDING.
- RECEPTACLES, LIGHT FIXTURES, AND POWER ITEMS BRANCH CIRCUIT WIRING MAY NOT BE SHOWN BUT SHALL BE PROVIDED AS REQUIRED. MINIMUM WIRING SHALL BE 2#12 PLUS 1#12GROUND IN 3/4". NO MORE THAN THREE PHASES MAY BE COMBINED IN A SINGLE HOMERUN AND EACH PHASE SHALL BE PROVIDED WITH AN INDIVIDUAL NEUTRAL.
- ALL CONDUITS SHALL CONTAIN A GREEN SAFETY GROUND WIRE. BOND ALL PANELS, CABINETS, ENCLOSURES, CONDUITS, ETC., AS REQUIRED PER CODE.
- ALL SUPPORTS AND ANCHORS SHALL BE DESIGNED AND INSTALLED PER REQUIREMENTS FOR THE SEISMIC CLASSIFICATIONS AS OUTLINED IN THE APPLICABLE BUILDING CODE. SITE LOCATION AND PREVAILING ORIENTATION SHALL BE TAKEN INTO ACCOUNT IN THE DESIGN.
- SUBMIT SIX (6) COPIES FOR REVIEW AND APPROVAL OF THE FOLLOWING SHOP DRAWINGS: LIGHTING FIXTURES, WIRING DEVICES, RACEWAY, POKE-THRU DEVICES AND BUILDING WIRE & CABLE.

BRANCH CIRCUIT PANELBOARD SCHEDULE

DESIGNATION	BUS AMPS	MAIN	LOCATION	VOLTAGE	PH	BREAKERS						TOTAL POLES	MOUNTING	REMARKS
						USED			SPARE					
						1-POLE	2-POLE	3-POLE	1-POLE	2-POLE	3-POLE			
LP4B	125A	125A	(SEE PLANS)	208Y/120	3	-	-	-	(5) 20A	-	-	??	SURFACE	DISTRIBUTION POWER, PANEL BOARD. (NON-ESSENTIAL "EMERGENCY") (22K A.I.C. RATING)
LP1	100A	MLO	(SEE PLANS)	208Y/120	3	-	-	-	(5) 20A	-	-	??	SURFACE	BRANCH CIRCUIT POWER, PANEL BOARD. (NON-ESSENTIAL "EMERGENCY") (22K A.I.C. RATING)

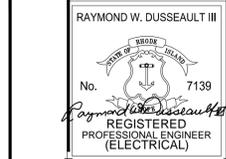
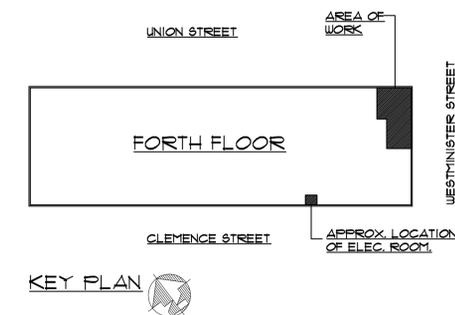
NOTES:

- ALL PANELBOARDS SHALL BE PROVIDED WITH AN ENGRAVED NAMEPLATE ON THE DOOR INDICATING THE PANELBOARD DESIGNATION, VOLTAGE, RATING OF MCB OR MAIN LUGS AND SOURCE OF SUPPLY. ENGRAVED PLATE SHALL BE AS CALLED FOR IN THE SPECIFICATIONS.
- ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPED (HAND WRITTEN IS NOT ALLOWED) CIRCUIT DIRECTORY INDICATING THE LOAD FED BY EACH CIRCUIT BREAKER AND ITS LOCATION IN THE BUILDING.
- ALL PANELBOARDS SHALL BE PROVIDED WITH FULL SIZE EQUIPMENT GROUND AND NEUTRAL BUSES ON EACH SIDE OF THE ENCLOSURE SO AS TO PROVIDE A SEPARATE EQUIPMENT GROUND AND NEUTRAL TERMINAL FOR EACH BRANCH CIRCUIT.
- SPACES SHALL BE PROVIDED WITH ALL REQUIRED BUSSING, SUPPORTS, CONNECTORS, ETC., NECESSARY FOR FUTURE INSTALLATION OF CIRCUIT BREAKERS.
- FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FIVE (5) EMPTY 1" EMT CONDUITS INSTALLED UP TO ABOVE ACCESSIBLE CEILING FOR FUTURE USE.
- ALL PANELBOARDS SHALL HAVE HINGED "DOOR-IN-DOOR" TYPE COVERS.
- REFER TO THE SPECIFICATIONS FOR ALL OTHER PANELBOARD REQUIREMENTS.
- ALUMINUM BUSSING "SHALL NOT" BE AN ACCEPTABLE SUBSTITUTE FOR COPPER BUSSING.
- SERIES RATED EQUIPMENT "SHALL NOT" BE APPROVED.



POWER RISER DIAGRAM

NOT TO SCALE



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CONSULTANT



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PROVIDENCE CAMPUS
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SHEET TITLE
ELECTRICAL:
RISER SCHEDULE, AND
SPECIFICATION

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN: TMW DATE: 07/08/2014
CHK BY: RLUD JOB NO: 14140-63

E3.1

SHEET OF