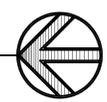


- SHEET NOTES:**
- 1 REMOVE EXISTING EXHAUST DUCT, EXHAUST HOOD, GRILLE, CONTROLS, AND RISER THRU ROOF.
  - 2 REMOVE EXISTING TRANSFER AIR GRILLES, DUCTWORK ETC.
  - 3 REMOVE EXISTING LOW PRESSURE DUCTWORK TO POINT SHOWN.
  - 4 REMOVE EXISTING DIFFUSER.
  - 5 EXISTING DUCT SHALL REMAIN.
  - 6 REMOVE EXISTING CEILING OR WALL GRILLE.
  - 7 EXISTING ROOF TOP UNIT SHALL REMAIN.
  - 8 RELOCATE HEAT PUMP TO ROOM 156 MOUNT CONDENSING UNIT ON ROOF.
  - 9 EXISTING CEILING GRILLE SHALL REMAIN.
  - 10 REMOVE EXISTING RETURN AIR GRILLE, DUCTWORK ETC.
  - 11 REMOVE EXISTING PIECE OF EQUIPMENT, VENTS AND ALL ASSOCIATED EQUIPMENT.
  - 12 REMOVE EXISTING VAV BOX AND CAP DUCT. DISCONNECT HOT WATER SUPPLY AND RETURN PIPING AND CAP.
  - 13 REMOVE EXISTING THERMOSTAT, CAP AIR SUPPLY AND PROVIDE WALL COVER PLATE.
  - 14 EXISTING THERMOSTAT SHALL REMAIN.
  - 15 REMOVE EXISTING AIR COMPRESSOR, PIPING, ELECTRICAL, CONTROLS, ETC. GIVE COMPRESSOR TO DSC.
  - 16 REMOVE EXISTING VACUUM PUMP, TANKS, PIPING, ELECTRICAL, CONTROLS, ETC. GIVE THE VACUUM PUMP AND TANKS SET TO DSC.
  - 17 SEE ARCHITECTURAL DRAWINGS FOR PATCH AND TILE CEILING REPLACEMENT FOR AREAS WHERE DIFFUSERS AND GRILLES ARE BEING REPLACED.
  - 18 REMOVE THIS SECTION OF S.A. DUCT AND DIFFUSER.
  - 19 PATCH EXISTING DUCTWORK.
  - 20 REMOVE EXISTING 3 COMPARTMENT SINK AND CAP UTILITIES AT WALL FOR FUTURE USE.
  - 21 REMOVE ALL EXISTING UTILITIES IN THIS ROOM IE GAS, WATER, WASTE, AIR, VACUUM, ETC AND CAP AT SOURCE OUTSIDE ROOM.
  - 22 REMOVE EXISTING DRINKING FOUNTAINS. CAP EXISTING WASTE, VENT AND COLD WATER FOR RECONNECTION TO NEW HI-LOW WATER COOLERS.
  - 23 REMOVE EXISTING CABINET MOUNTED LAVATORIES. CAP EXISTING WASTE, VENT, HOT AND COLD WATER FOR RECONNECTION TO NEW LAVATORIES.

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



**GENERAL NOTES:**  
COVER DUCTING DURING DEMOLITION TO AVOID DUCT CONTAMINATION. DO NOT OPERATE AIR HANDLING UNITS DURING DEMOLITION.



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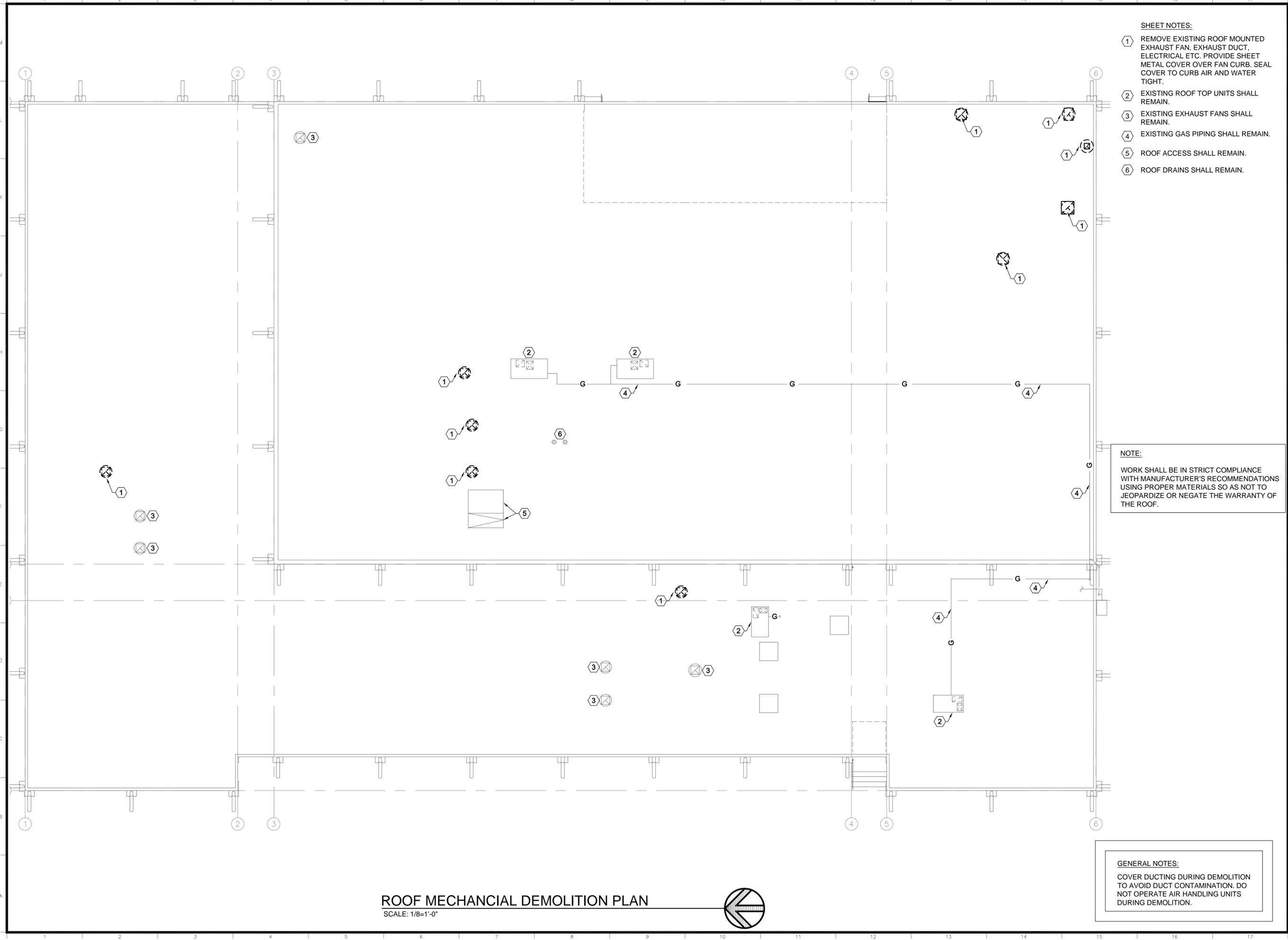
**MECHANICAL DEMOLITION PLAN**

SHEET NO.

**MD101**

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- SHEET NOTES:**
- 1 REMOVE EXISTING ROOF MOUNTED EXHAUST FAN, EXHAUST DUCT, ELECTRICAL ETC. PROVIDE SHEET METAL COVER OVER FAN CURB. SEAL COVER TO CURB AIR AND WATER TIGHT.
  - 2 EXISTING ROOF TOP UNITS SHALL REMAIN.
  - 3 EXISTING EXHAUST FANS SHALL REMAIN.
  - 4 EXISTING GAS PIPING SHALL REMAIN.
  - 5 ROOF ACCESS SHALL REMAIN.
  - 6 ROOF DRAINS SHALL REMAIN.

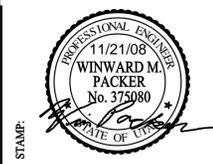
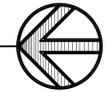
**NOTE:**

WORK SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS USING PROPER MATERIALS SO AS NOT TO JEOPARDIZE OR NEGATE THE WARRANTY OF THE ROOF.

**GENERAL NOTES:**

COVER DUCTING DURING DEMOLITION TO AVOID DUCT CONTAMINATION. DO NOT OPERATE AIR HANDLING UNITS DURING DEMOLITION.

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



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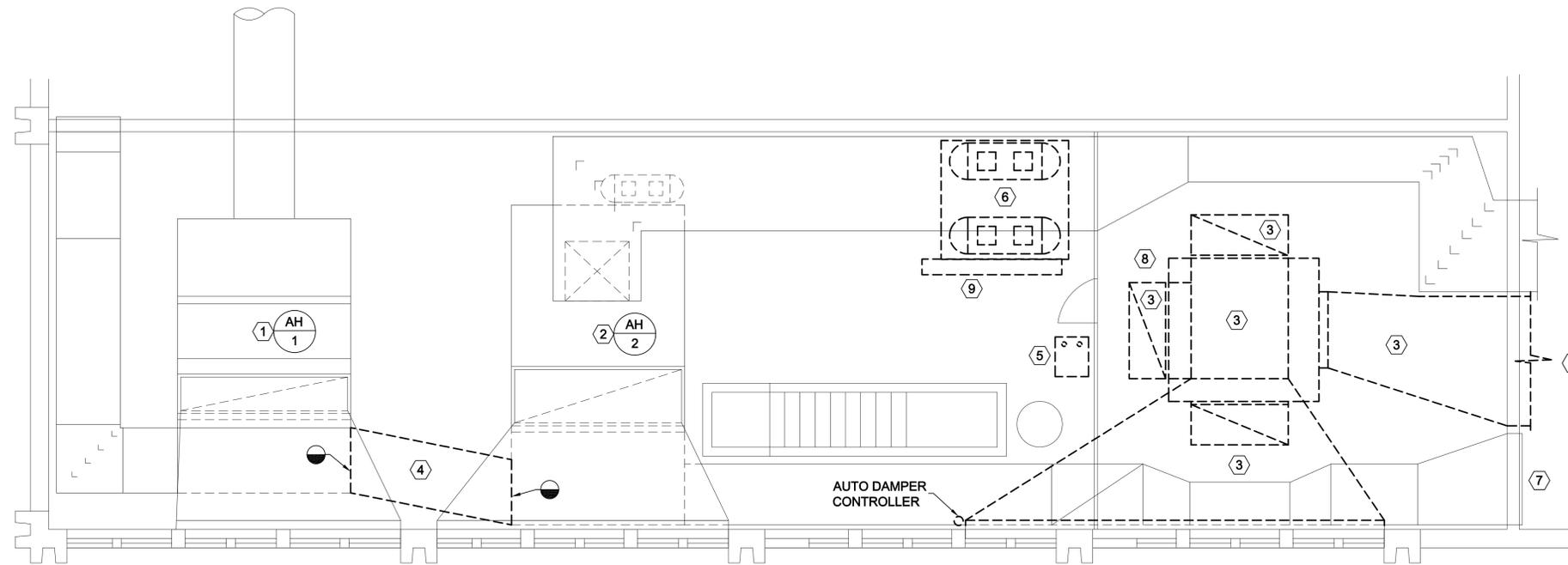
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**ROOF MECHANICAL DEMOLITION PLAN**  
SHEET NO.

**MD102**

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**LARGE SCALE MECHANICAL ROOM DEMOLITION PLAN**  
SCALE: 1/4"=1'-0"



**SHEET NOTES:**

- 1 EXISTING VAV AIR HANDLING UNIT SHALL REMAIN.
- 2 EXISTING CONSTANT VOLUME AIR HANDLING UNIT SHALL REMAIN.
- 3 REMOVE EXISTING EVAPORATIVE COOLER COMPLETE WITH DUCTWORK, DAMPERS, PIPING, ELECTRICAL, ETC.
- 4 REMOVE EXISTING RETURN DUCT BETWEEN THE TWO AIR HANDLERS AND PATCH AT UNITS.
- 5 REMOVE EXISTING VACUUM PUMP, PIPING, ELECTRICAL, CONTROLS, AND ALL ASSOCIATED ITEMS. RETURN TO DSC.
- 6 REMOVE EXISTING AIR COMPRESSORS, PIPING, ELECTRICAL, CONTROLS, ETC. RETURN TO DSC.
- 7 SEE SHEET ME101 FOR NEW SOUND BOOT CONNECTION TO EXISTING R.A. OPENING.
- 8 REMOVE WATER PIPING SERVING EVAPORATIVE COOLER BACK TO SOURCE.
- 9 REMOVE CHEMICAL TREATMENT STATION, INCLUDING STAND, PUMPS, AND ALL ASSOCIATED ITEMS. RETURN TO DSC. THIS IS LOCATED ADJACENT TO THE COMPRESSORS TO BE REMOVED.

**GENERAL NOTES:**

COVER DUCTING DURING DEMOLITION TO AVOID DUCT CONTAMINATION. DO NOT OPERATE AIR HANDLING UNITS DURING DEMOLITION.



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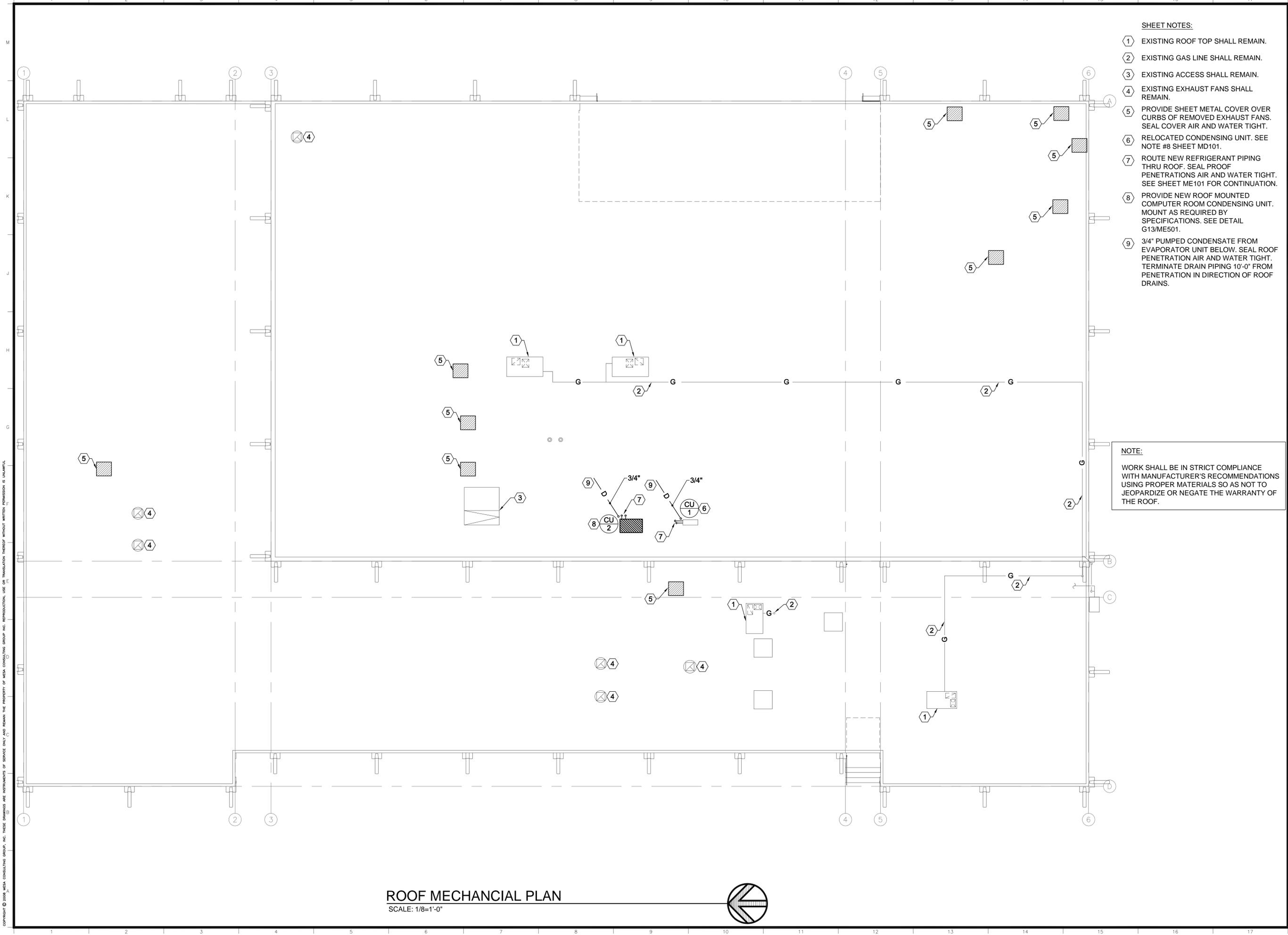
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**LARGE SCALE MECHANICAL ROOM DEMO. PLAN**

SHEET NO.

**MD401**

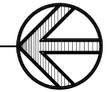




- SHEET NOTES:**
- 1 EXISTING ROOF TOP SHALL REMAIN.
  - 2 EXISTING GAS LINE SHALL REMAIN.
  - 3 EXISTING ACCESS SHALL REMAIN.
  - 4 EXISTING EXHAUST FANS SHALL REMAIN.
  - 5 PROVIDE SHEET METAL COVER OVER CURBS OF REMOVED EXHAUST FANS. SEAL COVER AIR AND WATER TIGHT.
  - 6 RELOCATED CONDENSING UNIT. SEE NOTE #8 SHEET MD101.
  - 7 ROUTE NEW REFRIGERANT PIPING THRU ROOF. SEAL PROOF PENETRATIONS AIR AND WATER TIGHT. SEE SHEET ME101 FOR CONTINUATION.
  - 8 PROVIDE NEW ROOF MOUNTED COMPUTER ROOM CONDENSING UNIT. MOUNT AS REQUIRED BY SPECIFICATIONS. SEE DETAIL G13/ME501.
  - 9 3/4" PUMPED CONDENSATE FROM EVAPORATOR UNIT BELOW. SEAL ROOF PENETRATION AIR AND WATER TIGHT. TERMINATE DRAIN PIPING 10'-0" FROM PENETRATION IN DIRECTION OF ROOF DRAINS.

**NOTE:**  
 WORK SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS USING PROPER MATERIALS SO AS NOT TO JEOPARDIZE OR NEGATE THE WARRANTY OF THE ROOF.

**ROOF MECHANICAL PLAN**  
 SCALE: 1/8"=1'-0"



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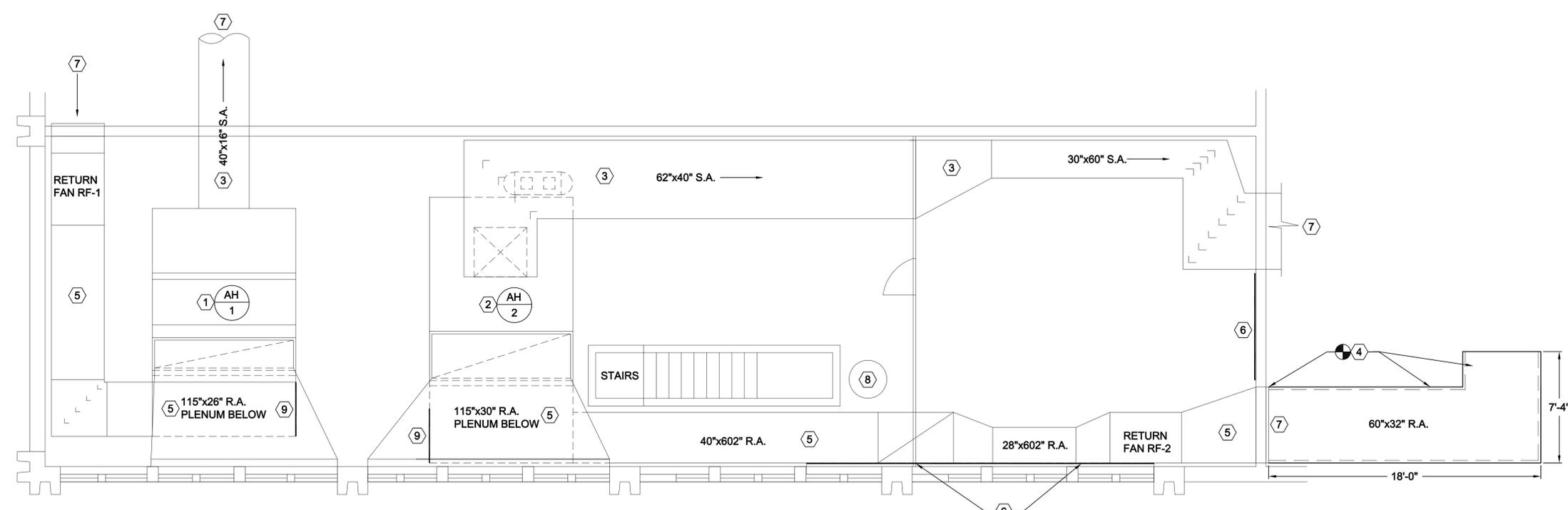
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**ROOF MECHANICAL PLAN**

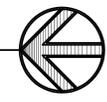
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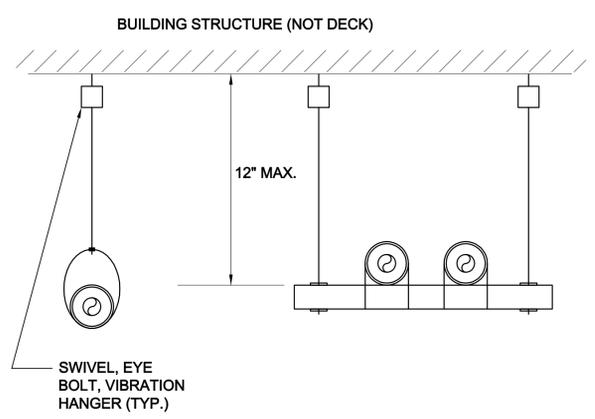


- SHEET NOTES:**
- 1 EXISTING VAV AIR HANDLING UNIT SHALL REMAIN.
  - 2 EXISTING CONSTANT VOLUME AIR HANDLING UNIT SHALL REMAIN.
  - 3 EXISTING S.A. DUCT SHALL REMAIN.
  - 4 NEW 60"x32" R.A. LINED SOUND BOOT, CONNECT TO EXISTING OPENING TO MECHANICAL ROOM. SEE SHEET ME101 FOR CONTINUATION.
  - 5 EXISTING R.A. DUCT SHALL REMAIN.
  - 6 NEW GALVANIZED SHEET METAL COVERING OVER OPENINGS LEFT BY THE REMOVAL OF THE EVAPORATIVE COOLER. SOUTH DUCT OPENING IS APPROXIMATELY 85"x32". FIELD VERIFY SIZE AND LOCATION OF WEST OPENING.
  - 7 SEE SHEET ME101 FOR CONTINUATION.
  - 8 EXISTING WATER HEATER.
  - 9 NEW GALVANIZED SHEET METAL PATCH COVERING OPENING BETWEEN THE TWO AIR HANDLERS MADE BY THE REMOVAL OF EXISTING R.A. DUCT.

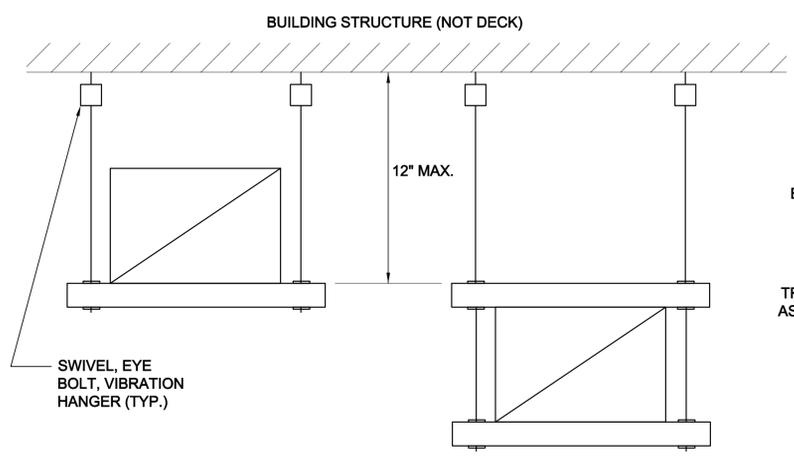
**LARGE SCALE MECHANICAL ROOM PLAN**  
SCALE: 1/4"=1'-0"



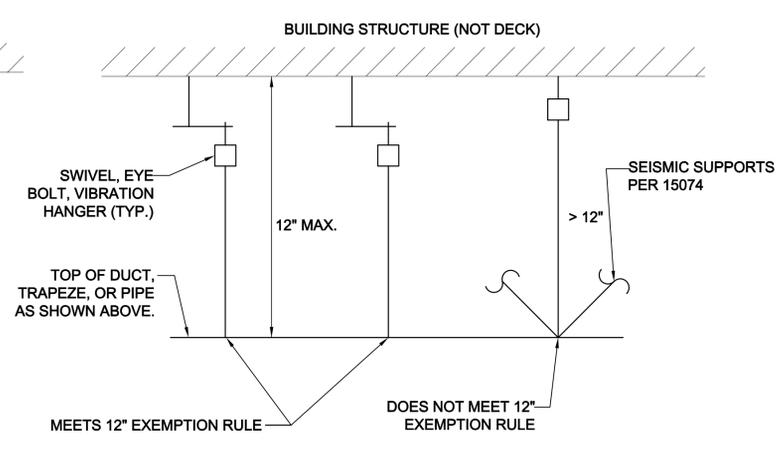
FOR THE 12" EXEMPTION RULE TO APPLY, ALL SUPPORTS IN A PIPE OR DUCT RUN MUST BE WITHIN 12". WHERE HANGER LENGTHS EXCEED 12" PROVIDE SEISMIC SUPPORTS PER SPECIFICATION SECTION 15074.



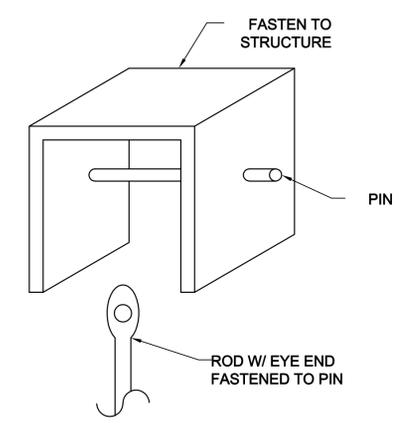
**A2 SEISMIC PIPING HANGERS**  
SCALE: NONE



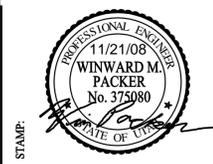
**A6 SEISMIC DUCT HANGERS**  
SCALE: NONE



**A10 SEISMIC HANGERS 12" EXEMPTIONS**  
SCALE: NONE



**A15 SWIVEL BOLT DETAIL**  
SCALE: NONE



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LARGE SCALE MECHANICAL ROOM PLAN

SHEET NO.  
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## REGISTER, LOUVER & GRILLE SCHEDULE

SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	SCHEDULE NOTES
R-1	CEILING	RETURN	180	8/8	8/8	LAY-IN	1,2,3,4
R-2	CEILING	RETURN	250	10/10	10/10	LAY-IN	1,2,3,4
R-3	CEILING	RETURN	375	12/12	12/12	LAY-IN	1,2,3,4
R-4	CEILING	RETURN	650	16/16	16/16	LAY-IN	1,2,3,4
R-5	CEILING	RETURN	1000	22/22	22/22	DUCT MTD.	1,3,4,5
R-6	CEILING	RETURN	600	16/16	16/16	HARD	1,2,3,4
R-7	CEILING	RETURN	1200	22/22	22/22	HARD	1,2,3,4
R-8	CEILING	RETURN	250	10/10	10/10	DUCT MTD.	1,2,3,4
R-9	CEILING	RETURN	1200	22/22	22/22	DUCT MTD.	1,2,3,4
R-10	CEILING	RETURN	100	8/8	8/8	HARD	1,2,3,4
R-11	CEILING	RETURN	1800	30/30	30/30	DUCT MTD.	1,2,3,4

### REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:

1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
2. SHALL BE PRICE 535 OR EQUAL BY OTHER APPROVED MANUFACTURERS.
3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
4. FINISH SHALL BE STANDARD WHITE.
5. FINISH TO BE SPECIFIED BY ARCH

## DIFFUSER SCHEDULE

SYMBOL	TYPE	MAX CFM	FACE SIZE	NECK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
D-1 CFM	CEILING	400	12X12	10"Ø	HARD	4-WAY		1,2,3,4,5
D-2 CFM	CEILING	200	9X9	8"Ø	LAY-IN	4-WAY		1,2,3,4,5
D-3 CFM	CEILING	400	12X12	10"Ø	LAY-IN	4-WAY		1,2,3,4,5
D-4 CFM	CEILING	600	15X15	12"Ø	HARD	4-WAY		1,2,3,4,5
D-5 CFM	CEILING	600	15X15	12"Ø	DUCT MTD.	4-WAY		1,2,3,4,5
D-6 CFM	CEILING	1000	18X18	16"Ø	DUCT MTD.	4-WAY		1,2,3,4,5
D-7 CFM	CEILING	100	6x6	6"Ø	LAY-IN	3-WAY		1,2,3,4,5
D-8 CFM	CEILING	200	9x9	8"Ø	HARD	4-WAY		1,2,3,4,5
D-9 CFM	CEILING	600	15x15	12"Ø	HARD	3-WAY		1,2,3,4,5
D-10 CFM	CEILING	200	9x9	8"Ø	LAY-IN	3-WAY		1,2,3,4,5
D-11 CFM	CEILING	250	12X12	10"Ø	DUCT MTD.	4-WAY		1,2,3,4,5
D-12 CFM	CEILING	100	6x6	6"Ø	HARD	3-WAY		1,2,3,4,5

1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS.
2. MAXIMUM NC 25 AT CFM LISTED.
3. PROVIDE TRANSITION TO DIFFUSER NECK SIZE AS REQUIRED TO DUCT WORK SHOWN ON PLAN.
4. DIFFUSER SHALL BE PRICE MODEL SMD OR EQUAL BY APPROVED MANUFACTURER IN SPECIFICATIONS.
5. FINISH SHALL BE STANDARD WHITE.

## VAV BOX SCHEDULE

SYMBOL	SERVES	COOLING & HEATING		COIL	SCHEDULE NOTES
		NEW CFM	EXISTING CFM		
VAV 1	ROOMS: 143,144,145,146,151	750	750	EXISTING	BALANCE TO 750 CFM
VAV 2	ROOMS: 137,141	1145	1500	EXISTING	RE-BALANCE TO 1145 CFM
VAV 3	ROOMS: 136,138,139	655	1095	EXISTING	RE-BALANCE TO 655 CFM
VAV 4	ROOMS: 115,116	750	750	EXISTING	BALANCE TO 750 CFM
VAV 5	ROOMS: 108,109,110,111,112,113,114	1080	1340	EXISTING	RE-BALANCE TO 1080 CFM
VAV 6	ROOM: 107	130	120	EXISTING	RE-BALANCE TO 130 CFM
VAV 7				REMOVE EXISTING	
VAV 8	ROOMS: 134,160	1280	1280	EXISTING	BALANCE TO 1280 CFM
VAV 9	ROOM: 103	1030	2170	EXISTING	RE-BALANCE TO 1030 CFM
VAV 10	ROOM: 102	190	190	EXISTING	BALANCE TO 190 CFM
VAV 11	FOYER 197 CORRIDOR 132	-	600	EXISTING	BALANCE TO 600 CFM
VAV 12	ROOM: 106	120	115	EXISTING	RE-BALANCE TO 120 CFM
VAV 13	ROOM: 100	180	180	EXISTING	BALANCE TO 180 CFM
VAV 14	ROOM: 105	150	140	EXISTING	RE-BALANCE TO 150 CFM
VAV 15	ROOM: 101	175	175	EXISTING	BALANCE TO 175 CFM
VAV 16	ROOMS: 147,148	225	225	EXISTING	BALANCE TO 225 CFM
VAV 17	ROOMS: 149,150	230	230	EXISTING	BALANCE TO 230 CFM
VAV 18	CLASSROOM 191	860	860	EXISTING	BALANCE TO 860 CFM
VAV 19	CLASSROOM 190	740	740	EXISTING	BALANCE TO 740 CFM
VAV 20	CLASSROOM 192	850	860	EXISTING	RE-BALANCE TO 850 CFM
VAV 21	CORRIDOR 132 FOYER 193	-	600	EXISTING	BALANCE TO 600 CFM
VAV 22	ROOMS: 122,123,124,125,126,127,128,129,130	2400	2480	EXISTING	RE-BALANCE TO 2400 CFM
VAV 23	RESTROOMS 120,121	390	390	EXISTING	BALANCE TO 390 CFM
VAV 24	FACULTY-LUNCH/MAIL ROOM 118	380	385	EXISTING	RE-BALANCE TO 380 CFM

## CONDENSING UNIT SCHEDULE

SYMBOL	EVAPORATOR SERVED	MIN SIZE (TONS)	VOLTAGE	FLA	WSA	OPD	HP	CFM	MANUF. & MODEL #	SCHEDULE NOTES
CU-1	CRU-1	5	208/60/3φ	22.1	26.9	45	0.5	4200	LIEBERT MINI-MATE 2 PFC067A	1,2,3

1. MOUNT ON ROOF WITH RAILS AND ISOLATORS.
2. PROVIDE 105°F FOR HIGH AMBIENT CONDITIONS.
3. OPERATION TO -30°F.

## COMPUTER ROOM SCHEDULE

EVAPORATOR										
SYMBOL	AREA SERVED	MIN SIZE	VOLTAGE	FLA	WSA	OPD	HP	CFM	MANUFACTURER & MODEL#	NOTES
CRU-1	CENTRAL MACHINE ROOM 157	5	208/60/3φ	5.6	7.0	15	1.5	2500	LIEBERT MINI-MATE 2 MMO60E-COOLD	1,2,3,4,5,6

1. REFRIGERANT R-22.
2. MOUNT IN CEILING SPACE.
3. SMOKE & FILTER CLOG.
4. CONDENSATE PUMP.
5. FILTER BOX AND FILTER-20%.
6. REFRIGERANT-LINE SWEAT ADAPTERS.

## PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	INDIVIDUAL LINE SIZES					REMARKS
		TRAP	WASTE	VENT	COLD WATER	HOT WATER	
S-1	SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	CABINET MOUNTED, STAINLESS STEEL SINGLE COMPARTMENT.
L-1	LAVORATORY	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	OVAL COUNTER MOUNTED SINKS
DF-1	WATER COOLER	1-1/2"	1-1/2"	1-1/2"	1/2"	-	HIGH/LOW DUAL WATER COOLER



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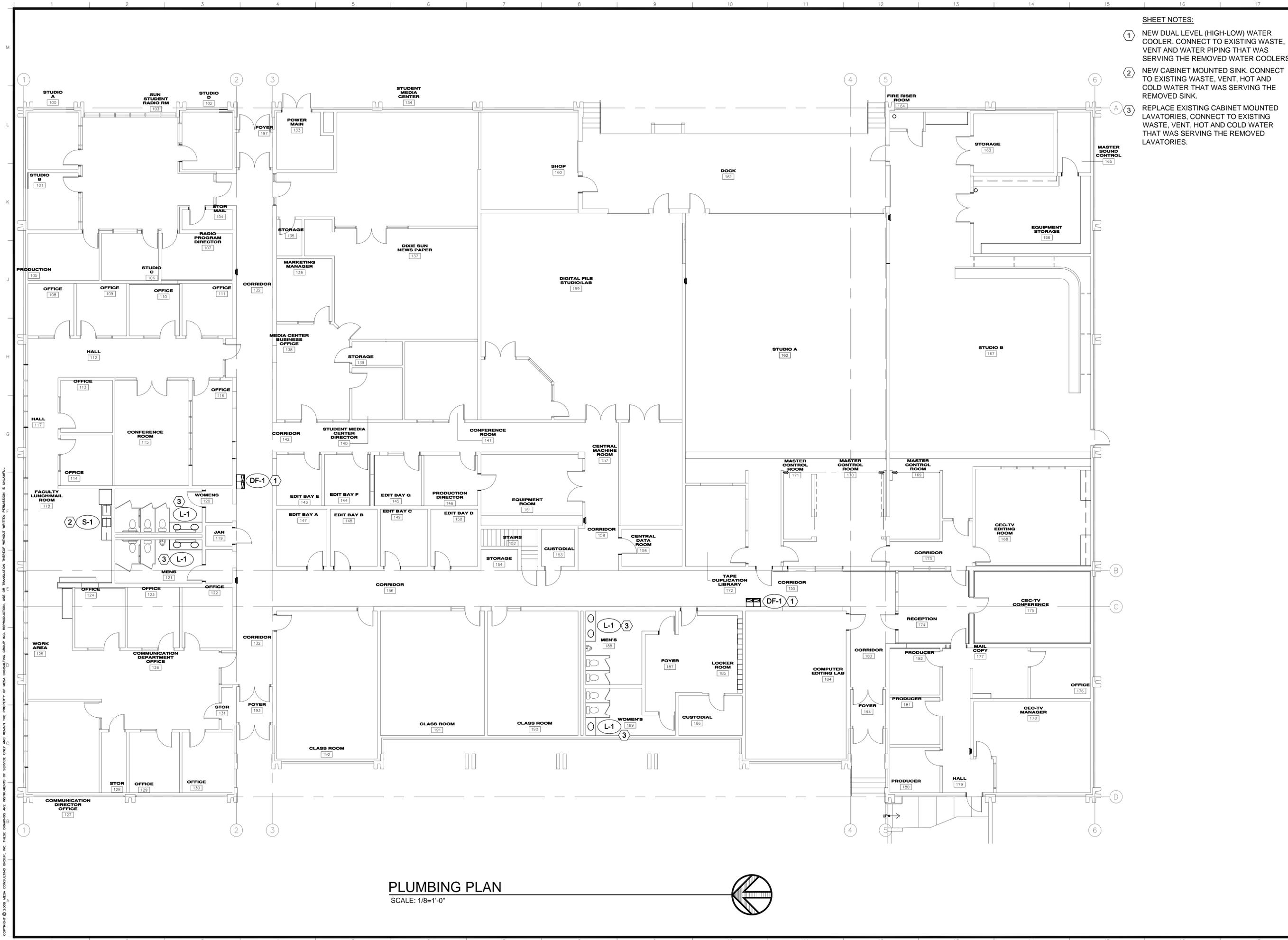
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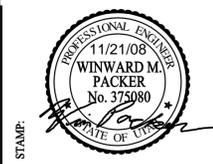
MECHANICAL SCHEDULES

SHEET NO.

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- SHEET NOTES:**
- ① NEW DUAL LEVEL (HIGH-LOW) WATER COOLER. CONNECT TO EXISTING WASTE, VENT AND WATER PIPING THAT WAS SERVING THE REMOVED WATER COOLERS.
  - ② NEW CABINET MOUNTED SINK. CONNECT TO EXISTING WASTE, VENT, HOT AND COLD WATER THAT WAS SERVING THE REMOVED SINK.
  - ③ REPLACE EXISTING CABINET MOUNTED LAVATORIES, CONNECT TO EXISTING WASTE, VENT, HOT AND COLD WATER THAT WAS SERVING THE REMOVED LAVATORIES.



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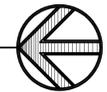


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**PLUMBING PLAN**  
SHEET NO.  
**PE101**

**PLUMBING PLAN**  
SCALE: 1/8"=1'-0"



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### FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A1	RECESSED FLUORESCENT ACRYLIC LENS 2X4 5 LAMP LIGHT FIXTURE, ONE PIECE DOOR FRAME.	LITHONIA: #22P-G-332-PH412-120-GB210RS	120	F32T8 855 ADV XTRM
A2	RECESSED FLUORESCENT DIFFUSED ACRYLIC EGRESS LENS 2X4 2 LAMP LIGHT FIXTURE, ONE PIECE DOOR FRAME	DAYRITE #28T-G-232-G-120-EB10R	120	F32T8/855 ADVXTRM
B	INDUSTRIAL CHAIN MOUNTED FLUORESCENT LAMP LIGHT FIXTURE. PROVIDE SOLID REFLECTORS WITH WIRE GUARD. PROVIDE FIXTURE, REFLECTORS AND WIRE GUARD WITH A MATTE BLACK FINISH	LITHONIA: #EJ3-432-120-GB10RS-MATTE-BLACK-FINISH	120	F32T8/855 ADVXTRM
C	INDUSTRIAL CHAIN MOUNTED FLUORESCENT STRIP LIGHT 4, 2 LAMPS WITH WIREGUARD. FIXTURE AND WIREGUARD SHALL BE PAINTED MATTE BLACK.	LITHONIA: #C-232-120-GB10RS-MATTE-BLACK-FINISH	120	
D	RECESSED ROUND INCANDESCENT DOWNLIGHT, WITH A CLEAR ALZAK REFLECTOR	LITHONIA: #A4-AR-120V	120	(1) 100W A19 I.F.
SN	WALL MOUNTED "ON AIR" LED SIGN	LITHONIA: #LDMP-PW-148-120V-SW13(OH AIR)	120	INCLUDED
SN1	EXTERIOR WALL MOUNTED "ON AIR" LED SIGNAGE	KENDALL: #MMEX-1-0-R-120-1-CEL-"ON AIR"-WL	120	INCLUDED
TR	SURFACE MOUNTED SINGLE CIRCUIT - REFER TO DRAWING FOR LENGTHS INCANDESCENT TRACK WITH BLACK FINISH	LITHONIA: LTC-RNDY-MB-DBL-FTH600-HEX/BLACK SURFACE S CCT	120	MR16 S2W NSP
X1	SINGLE FACE LED EXIT SIGN-WHITE-GREEN LETTERS WITH NI-CAD BATTERY	LITHONIA: LQM-S-WHITE-1-G-120-ELN	120	INCLUDED
X2	SINGLE FACE LED EXIT SIGN-BLACK-GREEN LETTERS WITH NI-CAD BATTERY	LITHONIA: LQM-S-BLACK-1-G-120-ELN	120	INCLUDED
X3	EMERGENCY WALL MOUNT EGRESS LIGHTING BLACK FINISH, INCLUDE LAMPS	LITHONIA: ELM2-B-SD (PROVIDE LAMPS)	120	INCLUDED
X4	WALL MOUNTED EXTERIOR EMERGENCY EGRESS LIGHT FIXTURE, DARK BRONZE FINISH WITH NI-CAD BATTERY	LITHONIA: #APN-DB-PRM	120	INCLUDED (2) 8W WEDGEBASE XENON

LIGHT FIXTURE ABBREVIATION SCHEDULE		LIGHT FIXTURE GENERAL NOTES	
NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.			
A.F.F.	ABOVE FINISH FLOOR	1.	REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
WALL@CLG	WALL MOUNT AT CORNER OF WALL AND CEILING	2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT	4.	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOUVER REQUIREMENTS AS REQUIRED.
CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT	5.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT		
MOD	MODIFY STANDARD LIGHT FIXTURE AS INDICATED		

#### BIDDING REQUIREMENTS

- BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
- PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
- WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.
- IF A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

#### PRIOR APPROVAL REQUIREMENTS

- PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
- PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
- PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
- ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL NOT BE GIVEN ON ANY ITEM.
- IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) WILL NOT BE GIVEN.
- PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE NOT ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED.
- SUPPLY POINT-BY-POINTS AS REQUIRED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
- SAMPLE FIXTURES MUST BE SUPPLIED WITH A CORD, PLUG AND 120V BALLAST.

#### LIGHTING SHOP DRAWING REQUIREMENTS

- REFER TO SPECIFICATIONS 16001, 16510 & 16551.
- MUST INCLUDE BALLAST AND LAMP CUT SHEETS.
- LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH SUPPORT DETAILS, STEM LOCATIONS AND HAVE ALL LENGTHS IDENTIFIED WITH STEM LOCATIONS.
- COLOR SAMPLES MUST BE INCLUDED IN FIRST SUBMITTAL.
- CUT SHEETS MUST BE STAMPED WITH THE FACTORY REPRESENTATIVE'S COMPANY NAME.
- VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, OWNER, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.
- PROVIDE A LIST OF SPARE PARTS, EQUIPMENT & LAMPS.

### GENERAL NOTES

1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.	9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.	10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.	11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.
4. SEE SECTION 16510 OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.	12. PROVIDE ALTERNATE PRICING TO REPLACE ALL EXISTING TO REMAIN SWITCHES, RECEPTABLES, AND COVERPLATES WITH NEW DEVICES AND COVERPLATES PER SPECIFICATION COORDINATE COLOR WITH OWNER/ARCHITECT. CONTRACTOR TO VISIT JOB SITE PRIOR TO BIDDING TO VERIFY QUANTITY. SEE ALTERNATE NUMBER 4.
5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.	13. ALL NEW BRANCH CIRCUITS SHALL BE CONSIDERED AS 20 AMP 120 VOLT WITH #12 THWN CU CONDUCTORS IN 3/4" CONDUIT UNLESS NOTED OTHERWISE. SEE GENERAL NOTE 11 FOR DISTANCE REQUIREMENTS FOR UPSIZING OF CONTROLLERS.
6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.	
7. FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.	
8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.	

### ELECTRICAL SYMBOL SCHEDULE

- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
- HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
- REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
- SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
- NEMA TYPE "ND" NON-FUSED UNLESS NOTED "F" (FUSED). USE "HD" 480 V.
- HEIGHT TO BE THE LOWER OF EITHER 80" A.F.F. OR 6" BELOW CEILING.
- PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
- DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
- COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
- SUBSCRIPT "N" DENOTES NEMA CONFIGURATION.
- HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.
- \* TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS			STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS			
DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL			⊖	CLOCK OUTLET	+7'-6"	8.
2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN			⊖	CLOCK/SPEAKER COMBINATION	+7'-6"	
3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN			⊖	JUNCTION BOX ("F" IN FLOOR)	AS NOTED	
CONDUIT RUN CONCEALED IN WALL OR CEILING			⊖	MOTOR OUTLET	TO SUIT EQUIP.	
CONDUIT RUN CONCEALED IN FLOOR OR GROUND			⊖	PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A
CONDUIT UP			⊖	TIME CLOCK	+5'-0"	2.
CONDUIT DOWN			⊖	PUSHBUTTON	+4'-0"	2.
CONDUIT STUB LOCATION	CAP CONDUIT		⊖	NON-FUSED DISCONNECT SWITCH	+5'-0"	5.
CABLE TRAY	AS NOTED		⊖	FUSED DISCONNECT SWITCH	+5'-0"	5.
CEILING LIGHT FIXTURE	CEILING	1.	⊖	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.
WALL LIGHT FIXTURE	AS NOTED	1.	⊖	MAGNETIC STARTER	+5'-0"	7.
RECESSED DOWNLIGHT FIXTURE	CEILING	1.	⊖	MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"	
FLUORESCENT LIGHT FIXTURE	AS NOTED	1	⊖	VARIABLE FREQUENCY DRIVE	+8'-6"	
FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED	⊖	PANEL BOARD	TOP AT +8'-0"	
AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	SEE DIAGRAM	⊖	MAIN DISTRIBUTION PANEL		
FLOOD OR TRACK FIXTURE	AS NOTED		⊖	TELEPHONE TERMINAL BOARD		
CEILING MOUNTED EXIT LIGHT	CEILING	1,3,8.	⊖	BELL	+7'-6"	
WALL MOUNTED EXIT LIGHT	AS NOTED	1,3,8.	⊖	CHIME	+7'-6"	
SINGLE POLE SWITCH	+4'-0"	2.	⊖	FIRE ALARM MANUAL STATION	+4'-0"	2.
SINGLE POLE SWITCH	+4'-0"	4, 2.	⊖	FIRE ALARM SIGNAL HORN/STROBE PROJECTORS	+6'-8"	6.
THREE-WAY SWITCH	+4'-0"	2.	⊖	FIRE ALARM SIGNAL HORN/STROBE	+6'-8"	6.
FOUR-WAY SWITCH	+4'-0"	2.	⊖	FIRE ALARM SIGNAL SPEAKER/STROBE	+6'-8"	6.
KEY OPERATED SWITCH	+4'-0"	2.	⊖	SMOKE DETECTOR	CEILING	
SWITCH WITH PILOT LIGHT	+4'-0"	2.	⊖	DUCT SMOKE DETECTOR	MTD. IN DUCT	
VARIABLE INTENSITY SWITCH	+4'-0"	2.	⊖	HEAT DETECTOR	CEILING	
TIMER SWITCH	+4'-0"	2.	⊖	FIRE/SMOKE DAMPER		
MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	2.	⊖	DOOR HOLDER	AS NOTED	
OCCUPANCY SENSOR	CEILING		⊖	FLOW SWITCH		
OCCUPANCY SENSOR	+4'-0"	2.	⊖	TAMPER SWITCH		
POWER PACK	CEILING	SEE DIAGRAM, SPEC.	⊖	WATER FLOOD INDICATOR		
AUTOMATIC RELAY PACK	CEILING	SEE DIAGRAM, SPEC.	⊖	O.S. & Y. VALVE	SEE DIAGRAM	
LOW VOLTAGE TRANSFORMER			⊖	FIRE ALARM RELAY		
DUPLEX RECEPTACLE UPPER OUTLET SWITCH CONTROLLED	+16" OR AS NOTED	9, 11.	⊖	FIRE ALARM CONTROL MODULE		
SIMPLEX RECEPTACLE	+16" OR AS NOTED	9, 11.	⊖	FIRE ALARM MONITOR MODULE		
DUPLEX RECEPTACLE	+16" OR AS NOTED	9, 11.	⊖	FIRE ALARM STROBE	+6'-8"	6.
DUPLEX RECEPTACLE	9.		⊖	DURESS PUSHBUTTON	+4'-0"	
ELECTRIC WATER COOLER RECEPTACLE	SEE DIAGRAM		⊖	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2, 9.	⊖	SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING	MOUNT AS PER MAN
ISOLATED GROUND RECEPTACLE	+16" OR AS NOTED	9, 11.	⊖	MAGNETIC SHEAR LOCK		
GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED	9, 11.	⊖	SECURITY SYSTEM KEYED ACCESS SWITCH	+4'-0"	2.
DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9, 11.	⊖	INFRARED SENSOR	AS NOTED	
FOURPLEX RECEPTACLE	+16" OR AS NOTED	9, 11.	⊖	SECURITY MOTION DETECTOR	MOUNT AS PER MAN	
FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9, 11.	⊖	GLASS BREAK DETECTOR	CEILING	
FLOOR OUTLET WITH 20A DEVICE	FLOOR		⊖	ELECTRIC DOOR STRIKE		
MULTIPLE SERVICE FLOOR BOX	FLOOR		⊖	ACCESS CONTROL CARD READER	+4'-0"	2.
SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	10 WITH CAP. 11.	⊖	CLOSED CIRCUIT TELEVISION CAMERA	AS NOTED	
CORD DROP	SEE DIAGRAM		⊖	DOOR POSITION INDICATING SWITCH		
PLUGMOLD	+46" OR AS NOTED		⊖	SOUND SYSTEM SPEAKER	+8'-6" OR AS NOTED	
TELEVISION OUTLET	+16" OR AS NOTED	11.	⊖	INTERCOM SPEAKER	AS NOTED	
DATA OUTLET	+16" OR AS NOTED	9, 11.	⊖	VOLUME CONTROL	+4'-0"	2.
DUAL DATA OUTLET	+16" OR AS NOTED	9, 11.	⊖	MICROPHONE OUTLET	+16"	11.
TRIPLE DATA OUTLET	+16" OR AS NOTED	9, 11.	⊖	MICROPHONE FLOOR OUTLET	FLOOR	
QUADRUPLE DATA OUTLET	+16" OR AS NOTED	9, 11.	⊖	MICROPHONE CEILING OUTLET	CEILING	
TELEPHONE OUTLET	+16" OR AS NOTED	9, 11.	⊖	SOUND EQUIPMENT CABINET		CIRCUIT TO 120V
TELEPHONE/DATA OUTLET	+16" OR AS NOTED	9, 11.	⊖	ARCHITECTURAL ROOM NUMBER		
TELEPHONE OUTLET	FLOOR		⊖	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
CALL SWITCH	+4'-0"	2.	⊖	EQUIPMENT NUMBER		

### DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 16.
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

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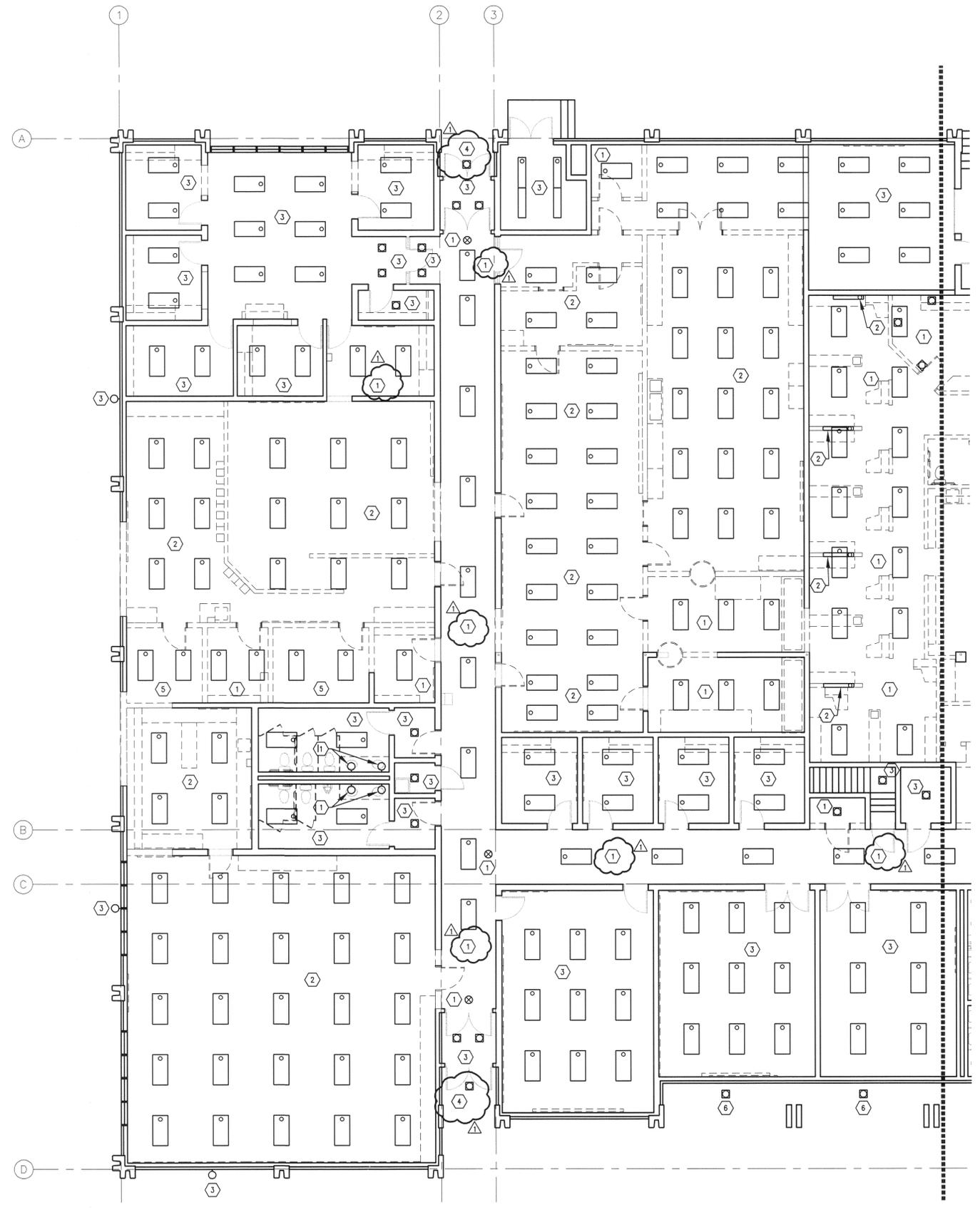


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 225 SOUTH 700 EAST  
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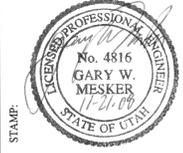
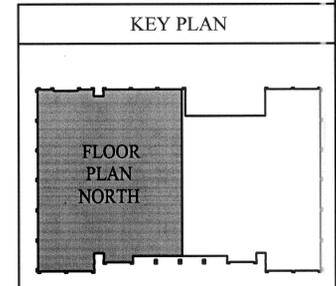
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 REVISIONS  
 DATE: 11/21/2008  
 PROJECT NO: 08172A  
 SHEET  
 SYMBOLS SCHEDULES AND NOTES  
 SHEET NO: E001

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- ### SHEET KEYNOTES
- ① EXISTING LIGHT FIXTURE(S) IN THIS ROOM OR AREA SHALL BE REMOVED AND SALVAGED BY CONTRACTOR.
  - ② EXISTING TO BE REMOVED AND RE-INSTALLED IN NEW LOCATION. THE CONTRACTOR SHALL CLEAN LENS AND FIXTURE. REPLACE WITH NEW LAMPS. REFER TO LIGHTING PLAN FOR REVISED LAYOUT.
  - ③ EXISTING TO REMAIN IN PLACE. CLEAN AND PROVIDE NEW LAMPS. REMOVE AND RE-INSTALL ONLY AS DEEMED NECESSARY BY THE CONTRACTOR BASED ON CEILING CONDITIONS. LIGHT FIXTURE SHALL BE IN WORKING ORDER. REPAIR AS REQUIRED. REPLACE LAMP IN DOWNLIGHTS ONLY WITH AN INTEGRAL COMPACT FLUORESCENT LAMP THAT WILL FIT IN EXISTING HOUSING.
  - ④ EXISTING TO REMAIN IN PLACE. CLEAN FIXTURE HOUSING COMPLETELY AND REPLACE LENS. PROVIDE NEW HIGH TEMPERATURE PAINT AS REQUIRED. CHANGE OUT EXISTING MERCURY VAPOR BALLAST AND LAMP TO A NEW 42W LAMP WITH EMERGENCY BALLAST THAT WILL FIT IN EXISTING HOUSING. WIRE FOR A COMPLETE AND OPERATING FIXTURE. UTILIZE EXISTING CONTROLS. REPAIR AND PATCH CEILING AS REQUIRED.
  - ⑤ EXISTING SURFACE MOUNTED FLUORESCENT LIGHT FIXTURES TO BE RELOCATED TO STORAGE #183 SHEET E202. THE CONTRACTOR SHALL CLEAN LENS AND FIXTURE. REPLACE WITH NEW LAMPS.
  - ⑥ EXISTING TO REMAIN IN PLACE. CLEAN FIXTURE HOUSING COMPLETELY AND REPLACE WITH HALO LED MODULE #ML706830/494WB06 TRIM. WIRE FOR A COMPLETE AND OPERATING FIXTURE. UTILIZE EXISTING CONTROLS. REPAIR AND PATCH CEILING AS REQUIRED.



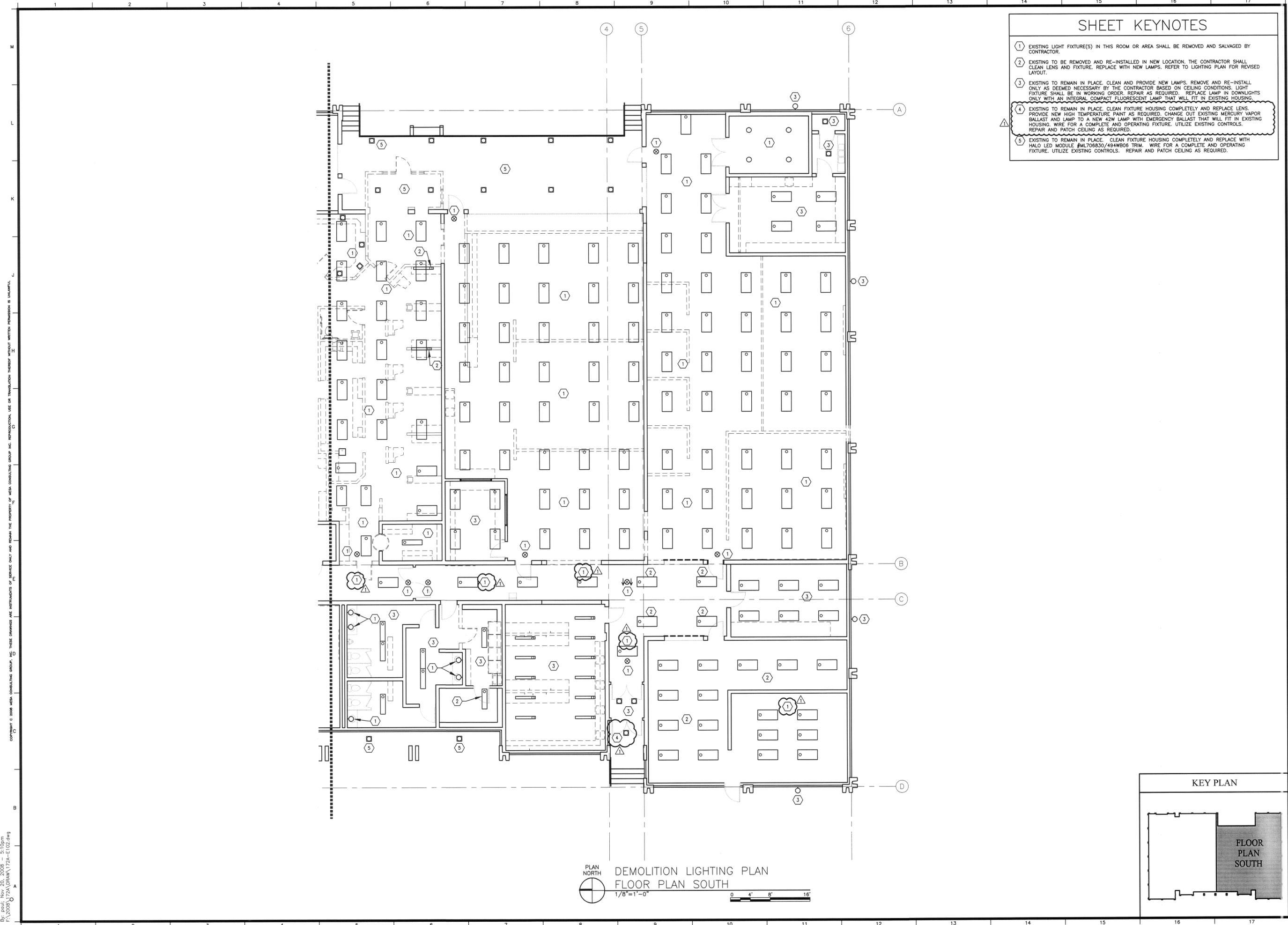
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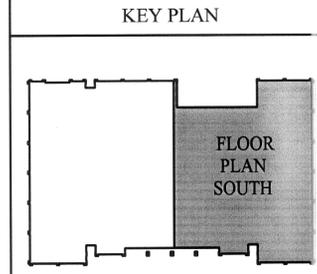
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 DATE 11/21/2008  
 PROJECT NO. 08172A  
 SHEET  
 DEMO LIGHTING PLAN FLOOR PLAN NORTH  
 SHEET NO.

E101



- ### SHEET KEYNOTES
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  - ② EXISTING TO BE REMOVED AND RE-INSTALLED IN NEW LOCATION. THE CONTRACTOR SHALL CLEAN LENS AND FIXTURE. REPLACE WITH NEW LAMPS. REFER TO LIGHTING PLAN FOR REVISED LAYOUT.
  - ③ EXISTING TO REMAIN IN PLACE. CLEAN AND PROVIDE NEW LAMPS. REMOVE AND RE-INSTALL ONLY AS DEEMED NECESSARY BY THE CONTRACTOR BASED ON CEILING CONDITIONS. LIGHT FIXTURE SHALL BE IN WORKING ORDER. REPAIR AS REQUIRED. REPLACE LAMP IN DOWNLIGHTS ONLY WITH AN INTEGRAL COMPACT FLUORESCENT LAMP THAT WILL FIT IN EXISTING HOUSING.
  - ④ EXISTING TO REMAIN IN PLACE. CLEAN FIXTURE HOUSING COMPLETELY AND REPLACE LENS. PROVIDE NEW HIGH TEMPERATURE PAINT AS REQUIRED. CHANGE OUT EXISTING MERCURY VAPOR BALLAST AND LAMP TO A NEW 42W LAMP WITH EMERGENCY BALLAST THAT WILL FIT IN EXISTING HOUSING. WIRE FOR A COMPLETE AND OPERATING FIXTURE. UTILIZE EXISTING CONTROLS. REPAIR AND PATCH CEILING AS REQUIRED.
  - ⑤ EXISTING TO REMAIN IN PLACE. CLEAN FIXTURE HOUSING COMPLETELY AND REPLACE WITH HALO LED MODULE #ML706830/494WB06 TRIM. WIRE FOR A COMPLETE AND OPERATING FIXTURE. UTILIZE EXISTING CONTROLS. REPAIR AND PATCH CEILING AS REQUIRED.

PLAN NORTH  
DEMOLITION LIGHTING PLAN  
FLOOR PLAN SOUTH  
1/8" = 1'-0"

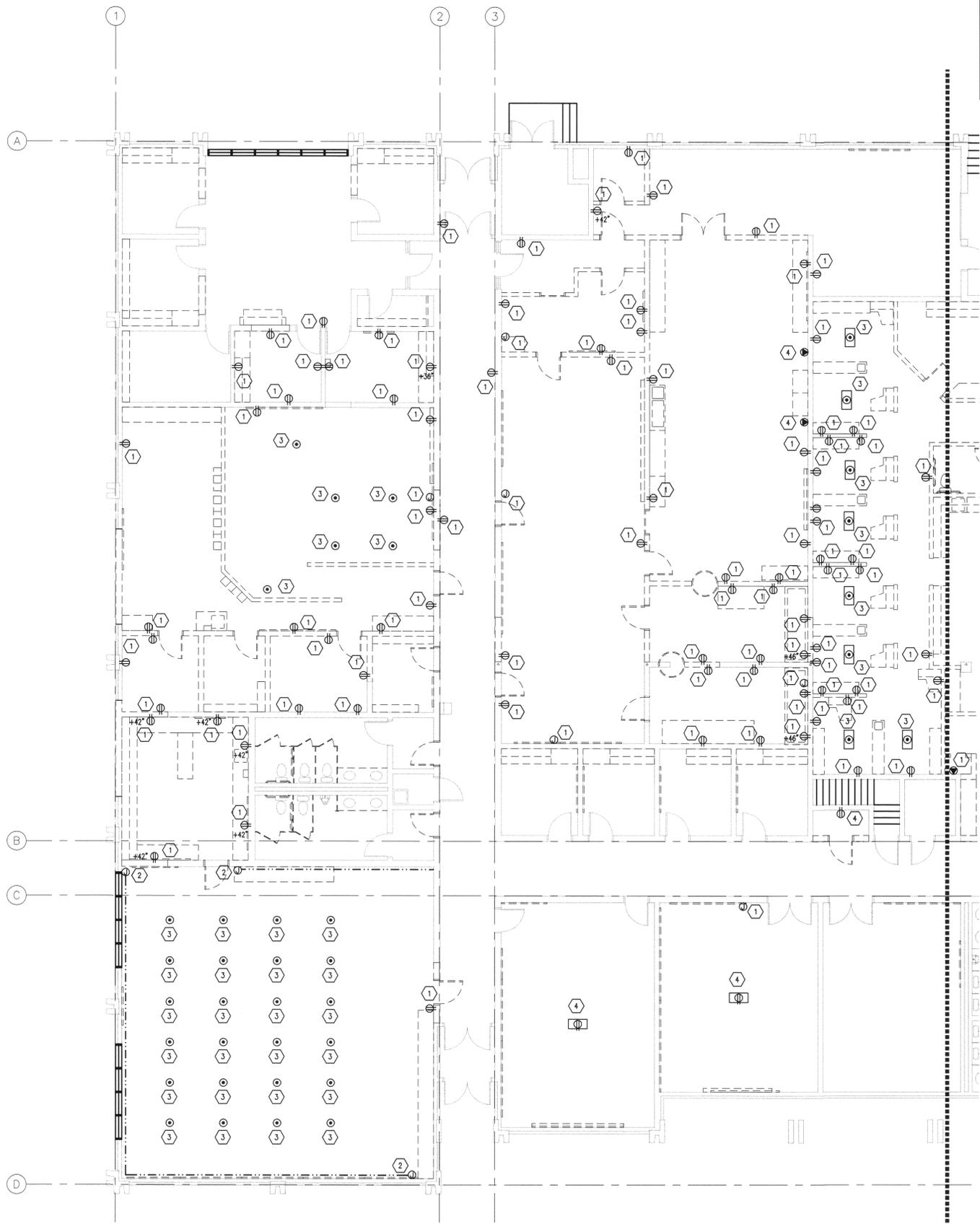


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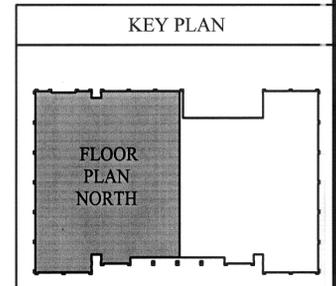


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 △ DFCM COMMENTS  
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 REVISIONS  
 . . .  
 DATE: 11/21/2008  
 PROJECT NO.: 08172A  
 SHEET  
 DEMO LIGHTING PLAN FLOOR PLAN SOUTH  
 SHEET NO.



SHEET KEYNOTES	
1	EXISTING POWER TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX AND WIRING.
2	EXISTING SURFACE RACEWAY TO BE REMOVED. REMOVE ASSOCIATED RECEPTACLES, DATA OUTLETS, CONDUIT, BOXES WIRING AND CABLES.
3	EXISTING POWER TO BE REMOVED. REMOVE ASSOCIATED WIRING AND COVER.
4	EXISTING POWER TO BE REWORKED. SEE SHEET E301 FOR NEW REQUIREMENTS.



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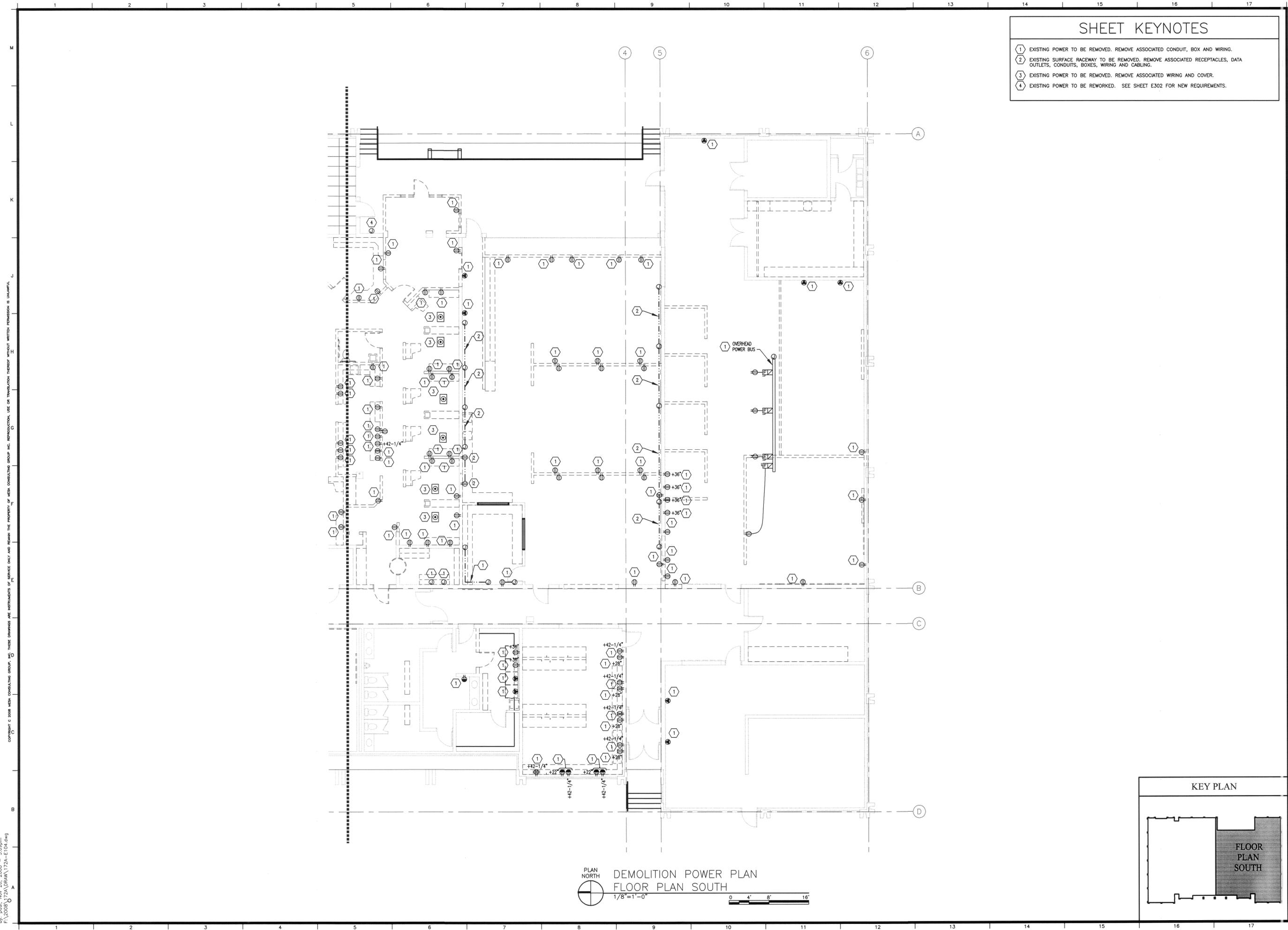
PROJECT NO.  
 08172A

SHEET  
 DEMO POWER  
 PLAN FLOOR  
 PLAN NORTH

SHEET NO.  
**E103**

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SHEET KEYNOTES	
1	EXISTING POWER TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX AND WIRING.
2	EXISTING SURFACE RACEWAY TO BE REMOVED. REMOVE ASSOCIATED RECEPTACLES, DATA OUTLETS, CONDUITS, BOXES, WIRING AND CABLING.
3	EXISTING POWER TO BE REMOVED. REMOVE ASSOCIATED WIRING AND COVER.
4	EXISTING POWER TO BE REWORKED. SEE SHEET E302 FOR NEW REQUIREMENTS.



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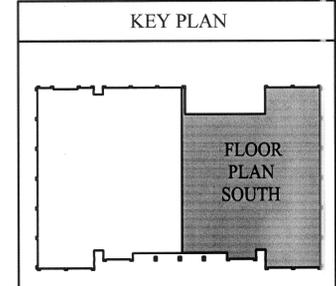


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REVISIONS  
DATE  
11/21/2008  
PROJECT NO.  
08172A

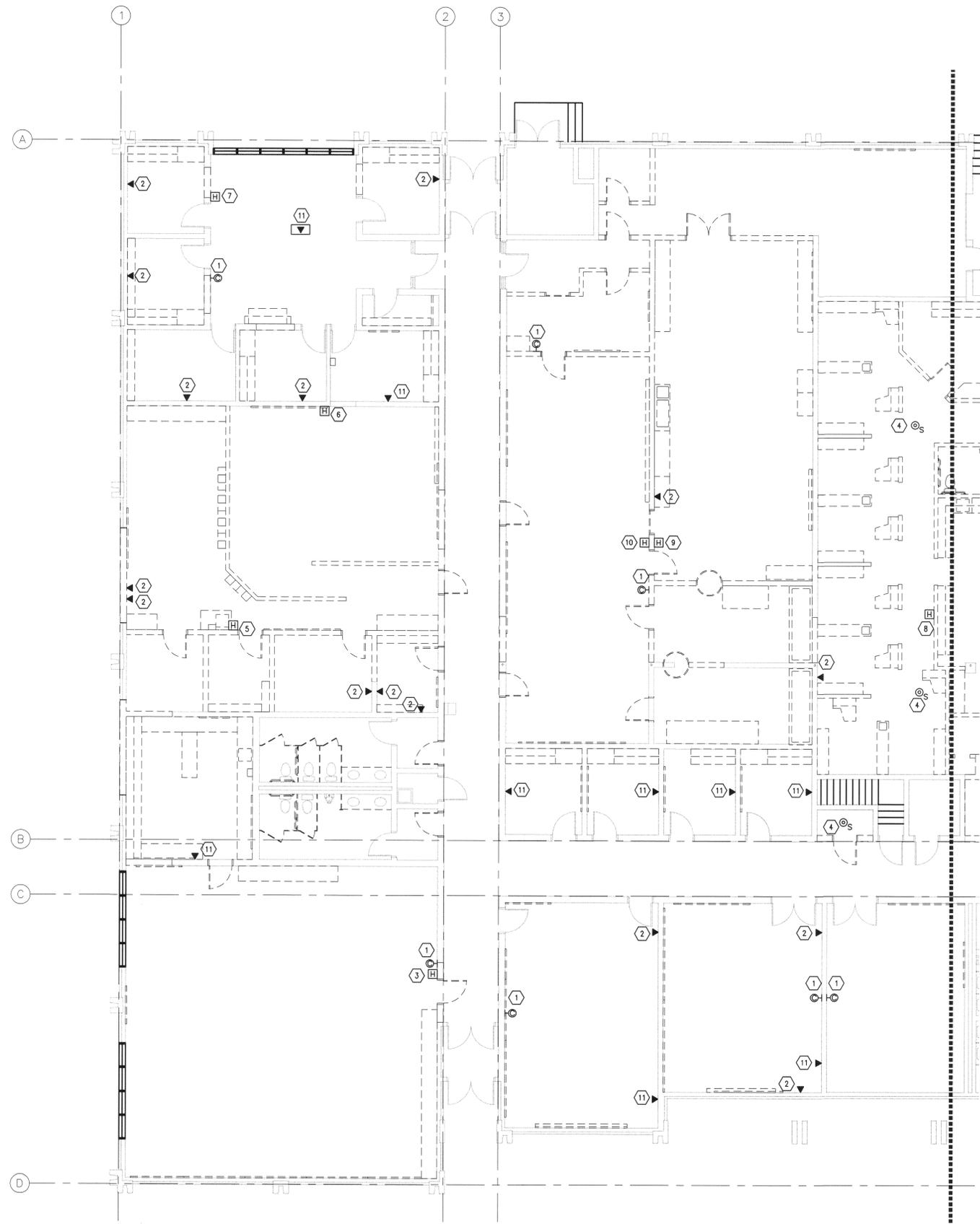
SHEET  
DEMO POWER  
PLAN FLOOR  
PLAN SOUTH

SHEET NO.  
E104

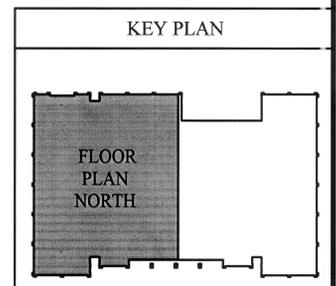


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- ### SHEET KEYNOTES
- ① EXISTING CLOCK TO BE REMOVED AND TURNED OVER TO OWNER. REMOVE ASSOCIATED WIRING AND COVER REMAINING JUNCTION BOX.
  - ② EXISTING DATA OUTLET TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX AND CABLING.
  - ③ EXISTING FIRE ALARM DEVICE TO BE REMOVED AND RELOCATED TO ROOM 126. REFER TO SHEET E501 FOR NEW LOCATION. REMOVE ASSOCIATED CONDUIT AND WIRING.
  - ④ EXISTING FIRE ALARM DEVICE TO BE REMOVED AND TURNED OVER TO OWNER. MAINTAIN INTEGRITY OF INTELLIGENT FIRE ALARM SYSTEM.
  - ⑤ EXISTING FIRE ALARM DEVICES TO BE REMOVED AND RELOCATED TO HALL 117. REFER TO SHEET E501 FOR NEW LOCATION. REMOVE ASSOCIATED CONDUIT AND WIRING.
  - ⑥ EXISTING FIRE ALARM DEVICES TO BE REMOVED AND RELOCATED TO HALL 112. REFER TO SHEET E501 FOR NEW LOCATION. REMOVE ASSOCIATED CONDUIT AND WIRING.
  - ⑦ EXISTING FIRE ALARM DEVICES TO BE REMOVED AND RELOCATED TO ROOM 103. REFER TO SHEET E501 FOR NEW LOCATION. REMOVE ASSOCIATED CONDUIT AND WIRING.
  - ⑧ EXISTING FIRE ALARM DEVICES TO BE REMOVED AND RELOCATED TO ROOM 134. REFER TO SHEET E501 FOR NEW LOCATION. REMOVE ASSOCIATED CONDUIT AND WIRING.
  - ⑨ EXISTING FIRE ALARM DEVICES TO BE REMOVED AND RELOCATED TO ROOM 137. REFER TO SHEET E501 FOR NEW LOCATION. REMOVE ASSOCIATED CONDUIT AND WIRING.
  - ⑩ EXISTING FIRE ALARM DEVICES TO BE REMOVED AND RELOCATED TO ROOM 138. REFER TO SHEET E501 FOR NEW LOCATION. REMOVE ASSOCIATED CONDUIT AND WIRING.
  - ⑪ EXISTING DATA OUTLET TO BE REWORKED. SEE SHEET E401 FOR NEW REQUIREMENTS.



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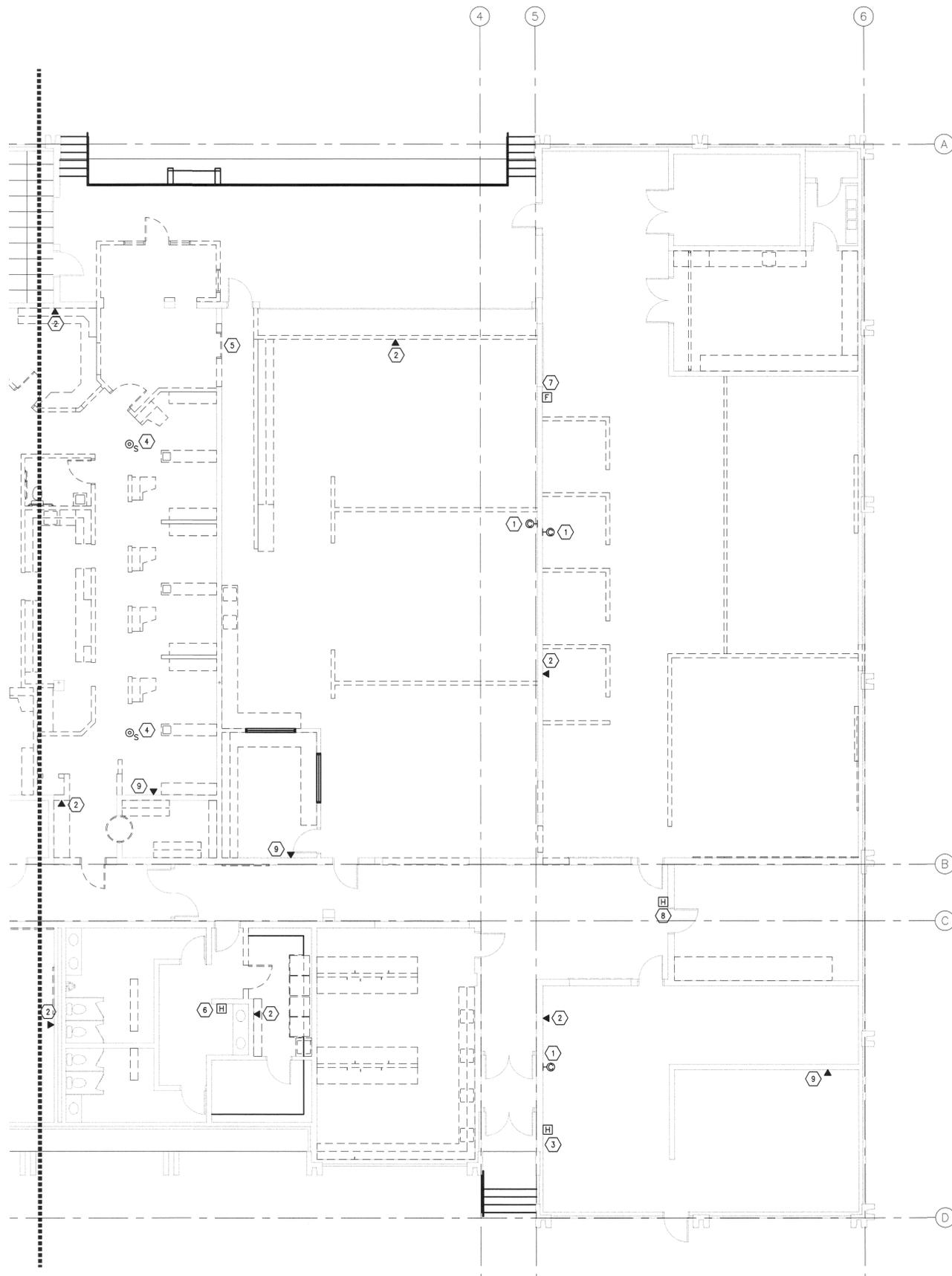
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 DATE: 11/21/2008  
 PROJECT NO: 08172A  
 SHEET  
 DEMO SYSTEMS  
 PLAN  
 FLOOR PLAN  
 NORTH  
 SHEET NO.

E105

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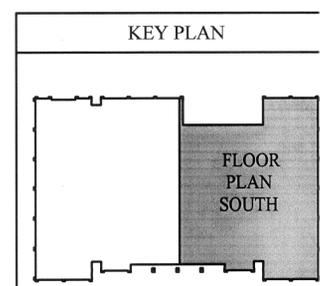
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### SHEET KEYNOTES

- ① EXISTING CLOCK TO BE REMOVED AND TURNED OVER TO OWNER. REMOVE ASSOCIATED WIRING AND COVER REMAINING JUNCTION BOX.
- ② EXISTING DATA OUTLET TO BE REMOVED. REMOVE ASSOCIATED CONDUIT, BOX AND CABLING.
- ③ EXISTING FIRE ALARM DEVICE TO BE REMOVED AND RELOCATED TO CORRIDOR 142. REFER TO SHEET E501 FOR NEW LOCATION. INSTALL NEW DEVICE AT THIS LOCATION.
- ④ EXISTING FIRE ALARM DEVICES TO BE REMOVED AND TURNED OVER TO OWNER. MAINTAIN INTEGRITY OF INTELLIGENT FIRE ALARM SYSTEM.
- ⑤ EXISTING DATA SWITCH TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT, BOXES AND CABLING.
- ⑥ EXISTING FIRE ALARM DEVICE TO BE REMOVED AND RELOCATED TO ROOM 185. REFER TO SHEET E502 FOR NEW LOCATION. REMOVE ASSOCIATED CONDUIT AND CABLING.
- ⑦ EXISTING FIRE ALARM DEVICE TO BE REMOVED AND RELOCATED TO ROOM 167. REFER TO SHEET E502 FOR NEW LOCATION. REMOVE ASSOCIATED CONDUIT AND CABLING.
- ⑧ EXISTING FIRE ALARM DEVICE TO BE REMOVED AND RELOCATED TO ROOM 158. REFER TO SHEET E502 FOR NEW LOCATION. INSTALL NEW DEVICE AT THIS LOCATION.
- ⑨ EXISTING DATA OUTLET TO BE REWORKED. SEE SHEET E502 FOR NEW REQUIREMENTS.



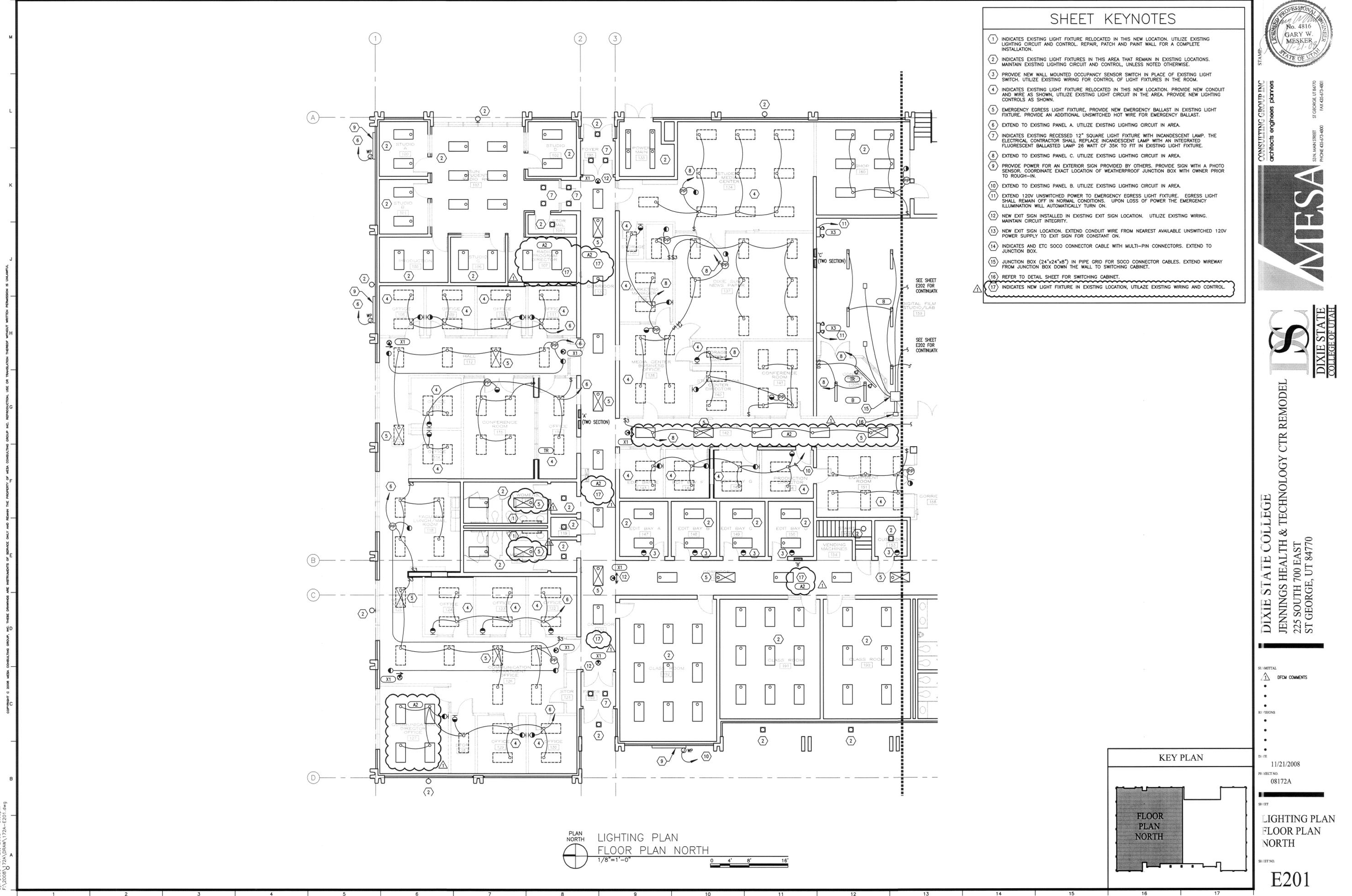
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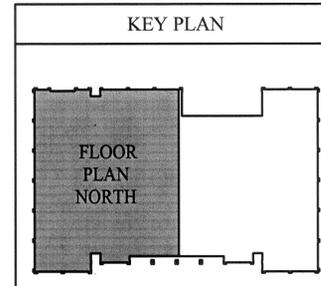
DATE 11/21/2008  
 PROJECT NO. 08172A  
 SHEET DEMO SYSTEMS  
 PLAN FLOOR PLAN  
 SOUTH  
 SHEET NO.

E106



- ### SHEET KEYNOTES
- 1 INDICATES EXISTING LIGHT FIXTURE RELOCATED IN THIS NEW LOCATION. UTILIZE EXISTING LIGHTING CIRCUIT AND CONTROL. REPAIR, PATCH AND PAINT WALL FOR A COMPLETE INSTALLATION.
  - 2 INDICATES EXISTING LIGHT FIXTURES IN THIS AREA THAT REMAIN IN EXISTING LOCATIONS. MAINTAIN EXISTING LIGHTING CIRCUIT AND CONTROL, UNLESS NOTED OTHERWISE.
  - 3 PROVIDE NEW WALL MOUNTED OCCUPANCY SENSOR SWITCH IN PLACE OF EXISTING LIGHT SWITCH. UTILIZE EXISTING WIRING FOR CONTROL OF LIGHT FIXTURES IN THE ROOM.
  - 4 INDICATES EXISTING LIGHT FIXTURE RELOCATED IN THIS NEW LOCATION. PROVIDE NEW CONDUIT AND WIRE AS SHOWN, UTILIZE EXISTING LIGHT CIRCUIT IN THE AREA. PROVIDE NEW LIGHTING CONTROLS AS SHOWN.
  - 5 EMERGENCY EGRESS LIGHT FIXTURE, PROVIDE NEW EMERGENCY BALLAST IN EXISTING LIGHT FIXTURE. PROVIDE AN ADDITIONAL UNSWITCHED HOT WIRE FOR EMERGENCY BALLAST.
  - 6 EXTEND TO EXISTING PANEL A. UTILIZE EXISTING LIGHTING CIRCUIT IN AREA.
  - 7 INDICATES EXISTING RECESSED 12" SQUARE LIGHT FIXTURE WITH INCANDESCENT LAMP. THE ELECTRICAL CONTRACTOR SHALL REPLACE INCANDESCENT LAMP WITH AN INTEGRATED FLUORESCENT BALLASTED LAMP 26 WATT CF 35K TO FIT IN EXISTING LIGHT FIXTURE.
  - 8 EXTEND TO EXISTING PANEL C. UTILIZE EXISTING LIGHTING CIRCUIT IN AREA.
  - 9 PROVIDE POWER FOR AN EXTERIOR SIGN PROVIDED BY OTHERS. PROVIDE SIGN WITH A PHOTO SENSOR. COORDINATE EXACT LOCATION OF WEATHERPROOF JUNCTION BOX WITH OWNER PRIOR TO ROUGH-IN.
  - 10 EXTEND TO EXISTING PANEL B. UTILIZE EXISTING LIGHTING CIRCUIT IN AREA.
  - 11 EXTEND 120V UNSWITCHED POWER TO EMERGENCY EGRESS LIGHT FIXTURE. EGRESS LIGHT SHALL REMAIN OFF IN NORMAL CONDITIONS. UPON LOSS OF POWER THE EMERGENCY ILLUMINATION WILL AUTOMATICALLY TURN ON.
  - 12 NEW EXIT SIGN INSTALLED IN EXISTING EXIT SIGN LOCATION. UTILIZE EXISTING WIRING. MAINTAIN CIRCUIT INTEGRITY.
  - 13 NEW EXIT SIGN LOCATION. EXTEND CONDUIT WIRE FROM NEAREST AVAILABLE UNSWITCHED 120V POWER SUPPLY TO EXIT SIGN FOR CONSTANT ON.
  - 14 INDICATES AND ETC SOCO CONNECTOR CABLE WITH MULTI-PIN CONNECTORS. EXTEND TO JUNCTION BOX.
  - 15 JUNCTION BOX (24"x24"x8") IN PIPE GRID FOR SOCO CONNECTOR CABLES. EXTEND WIREWAY FROM JUNCTION BOX DOWN THE WALL TO SWITCHING CABINET.
  - 16 REFER TO DETAIL SHEET FOR SWITCHING CABINET.
  - 17 INDICATES NEW LIGHT FIXTURE IN EXISTING LOCATION, UTILIZE EXISTING WIRING AND CONTROL.

PLAN NORTH  
LIGHTING PLAN  
FLOOR PLAN NORTH  
1/8"=1'-0"

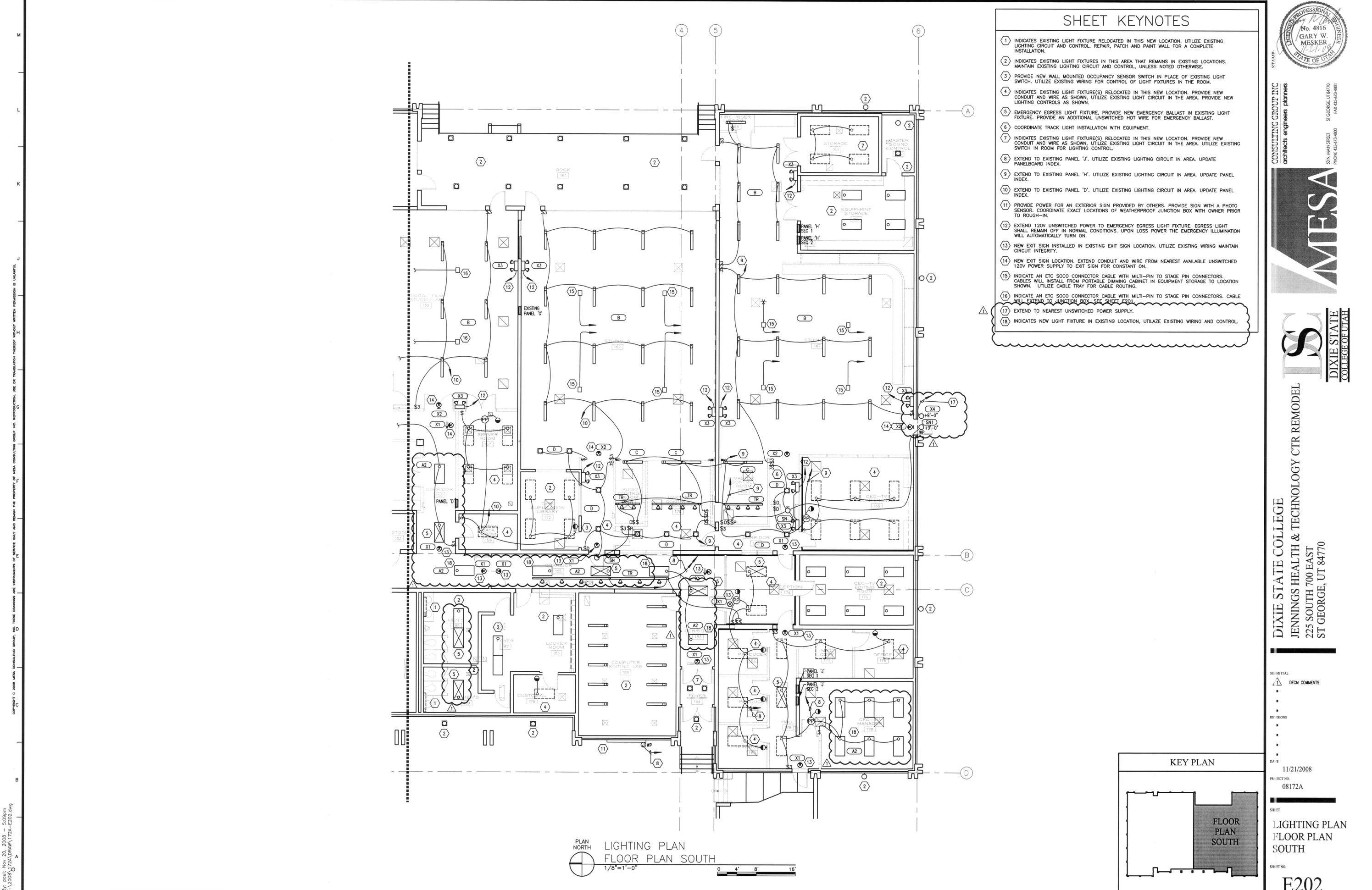


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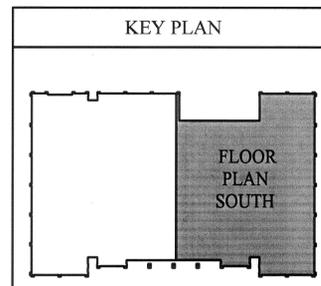
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 PROJECT NO: 08172A  
 SHEET: LIGHTING PLAN FLOOR PLAN NORTH  
 SHEET NO: E201



- ### SHEET KEYNOTES
- 1 INDICATES EXISTING LIGHT FIXTURE RELOCATED IN THIS NEW LOCATION. UTILIZE EXISTING LIGHTING CIRCUIT AND CONTROL. REPAIR, PATCH AND PAINT WALL FOR A COMPLETE INSTALLATION.
  - 2 INDICATES EXISTING LIGHT FIXTURES IN THIS AREA THAT REMAINS IN EXISTING LOCATIONS. MAINTAIN EXISTING LIGHTING CIRCUIT AND CONTROL, UNLESS NOTED OTHERWISE.
  - 3 PROVIDE NEW WALL MOUNTED OCCUPANCY SENSOR SWITCH IN PLACE OF EXISTING LIGHT SWITCH. UTILIZE EXISTING WIRING FOR CONTROL OF LIGHT FIXTURES IN THE ROOM.
  - 4 INDICATES EXISTING LIGHT FIXTURE(S) RELOCATED IN THIS NEW LOCATION. PROVIDE NEW CONDUIT AND WIRE AS SHOWN, UTILIZE EXISTING LIGHT CIRCUIT IN THE AREA. PROVIDE NEW LIGHTING CONTROLS AS SHOWN.
  - 5 EMERGENCY EGRESS LIGHT FIXTURE. PROVIDE NEW EMERGENCY BALLAST IN EXISTING LIGHT FIXTURE. PROVIDE AN ADDITIONAL UNSWITCHED HOT WIRE FOR EMERGENCY BALLAST.
  - 6 COORDINATE TRACK LIGHT INSTALLATION WITH EQUIPMENT.
  - 7 INDICATES EXISTING LIGHT FIXTURE(S) RELOCATED IN THIS NEW LOCATION. PROVIDE NEW CONDUIT AND WIRE AS SHOWN, UTILIZE EXISTING LIGHT CIRCUIT IN THE AREA. UTILIZE EXISTING SWITCH IN ROOM FOR LIGHTING CONTROL.
  - 8 EXTEND TO EXISTING PANEL 'J'. UTILIZE EXISTING LIGHTING CIRCUIT IN AREA. UPDATE PANELBOARD INDEX.
  - 9 EXTEND TO EXISTING PANEL 'H'. UTILIZE EXISTING LIGHTING CIRCUIT IN AREA. UPDATE PANEL INDEX.
  - 10 EXTEND TO EXISTING PANEL 'D'. UTILIZE EXISTING LIGHTING CIRCUIT IN AREA. UPDATE PANEL INDEX.
  - 11 PROVIDE POWER FOR AN EXTERIOR SIGN PROVIDED BY OTHERS. PROVIDE SIGN WITH A PHOTO SENSOR. COORDINATE EXACT LOCATIONS OF WEATHERPROOF JUNCTION BOX WITH OWNER PRIOR TO ROUGH-IN.
  - 12 EXTEND 120V UNSWITCHED POWER TO EMERGENCY EGRESS LIGHT FIXTURE. EGRESS LIGHT SHALL REMAIN OFF IN NORMAL CONDITIONS. UPON LOSS POWER THE EMERGENCY ILLUMINATION WILL AUTOMATICALLY TURN ON.
  - 13 NEW EXIT SIGN INSTALLED IN EXISTING EXIT SIGN LOCATION. UTILIZE EXISTING WIRING MAINTAIN CIRCUIT INTEGRITY.
  - 14 NEW EXIT SIGN LOCATION. EXTEND CONDUIT AND WIRE FROM NEAREST AVAILABLE UNSWITCHED 120V POWER SUPPLY TO EXIT SIGN FOR CONSTANT ON.
  - 15 INDICATE AN ETC SOCO CONNECTOR CABLE WITH MULTI-PIN TO STAGE PIN CONNECTORS. CABLES WILL INSTALL FROM PORTABLE DIMMING CABINET IN EQUIPMENT STORAGE TO LOCATION SHOWN. UTILIZE CABLE TRAY FOR CABLE ROUTING.
  - 16 INDICATE AN ETC SOCO CONNECTOR CABLE WITH MULTI-PIN TO STAGE PIN CONNECTORS. CABLE WILL EXTEND TO JUNCTION BOX - SEE SHEET E201.
  - 17 EXTEND TO NEAREST UNSWITCHED POWER SUPPLY.
  - 18 INDICATES NEW LIGHT FIXTURE IN EXISTING LOCATION, UTILIZE EXISTING WIRING AND CONTROL.

PLAN NORTH  
LIGHTING PLAN  
FLOOR PLAN SOUTH  
1/8"=1'-0"



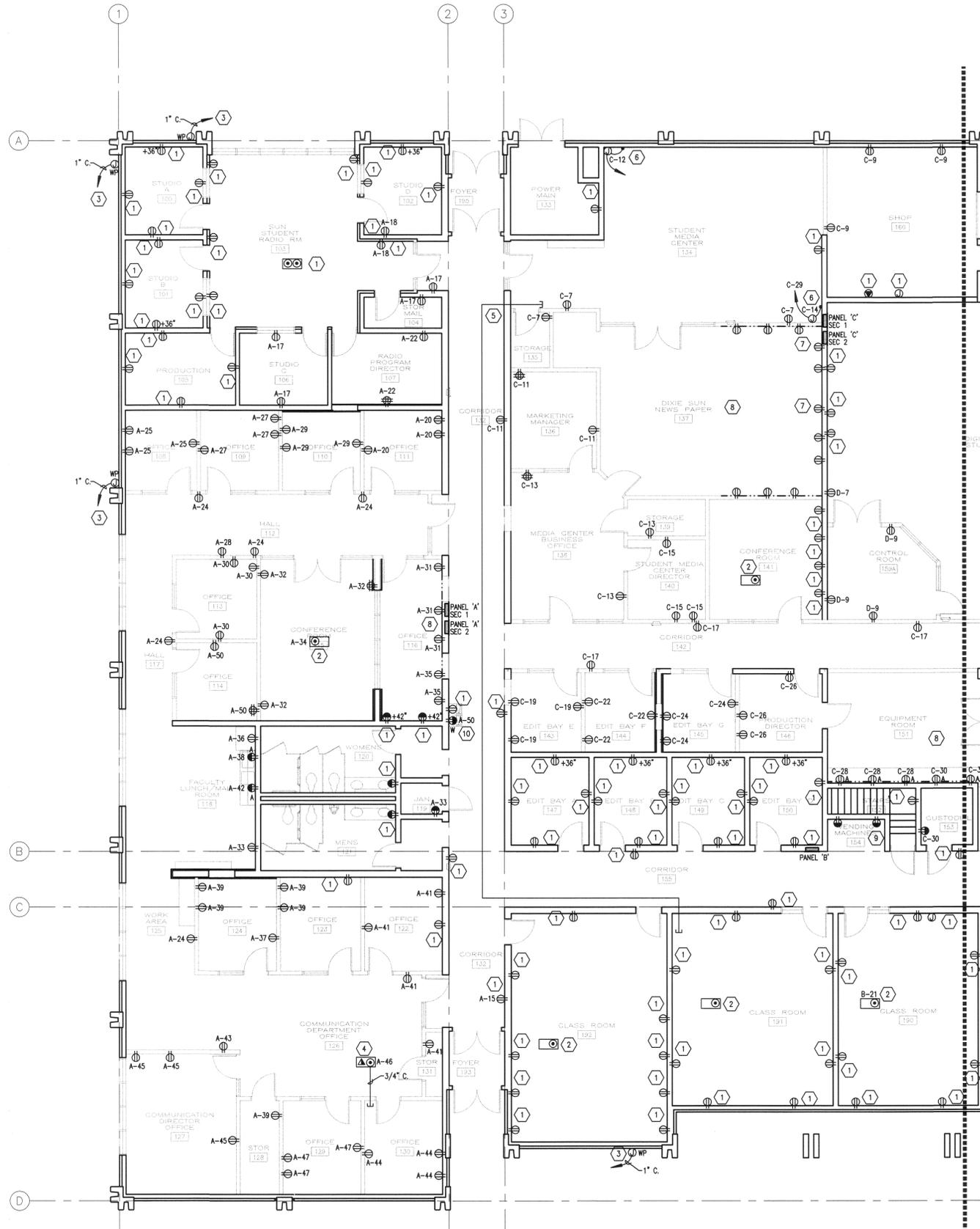
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DATE 11/21/2008  
 PROJECT NO. 08172A  
 SHEET LIGHTING PLAN FLOOR PLAN SOUTH  
 SHEET NO. E202

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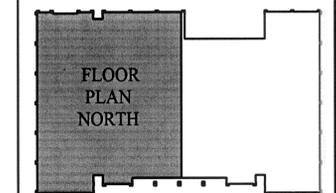
### SHEET KEYNOTES

- 1 EXISTING POWER TO REMAIN.
- 2 MOUNT DEVICE APPROXIMATELY 12"-0" FROM SCREEN. FLUSH WITH CEILING GRID.
- 3 RUN CONDUIT TO PANEL 'A' WITH PULL CORD. COORDINATE LOCATION OF JUNCTION BOX WITH OWNER/ARCHITECT.
- 4 SAW-CUT TO NEAREST WALL. STUB UP TO ACCESSIBLE CEILING.
- 5 CONDUIT TO REMAIN.
- 6 PROVIDE FINAL CONNECTION TO SYSTEM FURNITURE PER FURNITURE MANUFACTURER'S SPECIFICATIONS.
- 7 USE EXISTING CONDUIT FOR CIRCUITS IN WIREMOLD.
- 8 PROVIDE 5400 DUAL WIREMOLD FOR OUTLETS LOCATED AT COMPUTER STATIONS.
- 9 EXISTING POWER. REPLACE EXISTING RECEPTACLE WITH 20A GFI RECEPTACLE.
- 10 PROVIDE DEDICATED CIRCUIT FOR ELECTRIC WATER COOLER. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION PER DIAGRAM R002 ON SHEET E703.

### GENERAL NOTES

1. CIRCUITS SHOWN ARE FOR INTENT ONLY. CONTRACTOR TO CIRCUIT TO SPARE BREAKER AND PROVIDE NEW CIRCUIT BREAKERS AS NECESSARY. PROVIDE RED LINES TO SHOW CIRCUITS USED. PROVIDE NEW PANEL DIRECTIONS.
2. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL ELECTRICAL DEVICES WITH MILLWORK.
3. FOR NEW RECEPTACLES LOCATED IN EXISTING WALLS PROVIDE 5400 DUAL WIREMOLD UP TO ACCESSIBLE CEILING. FOR NEW RECEPTACLES LOCATED IN NEW WALLS PROVIDE MINIMUM 3/4" CONDUIT.

### KEY PLAN



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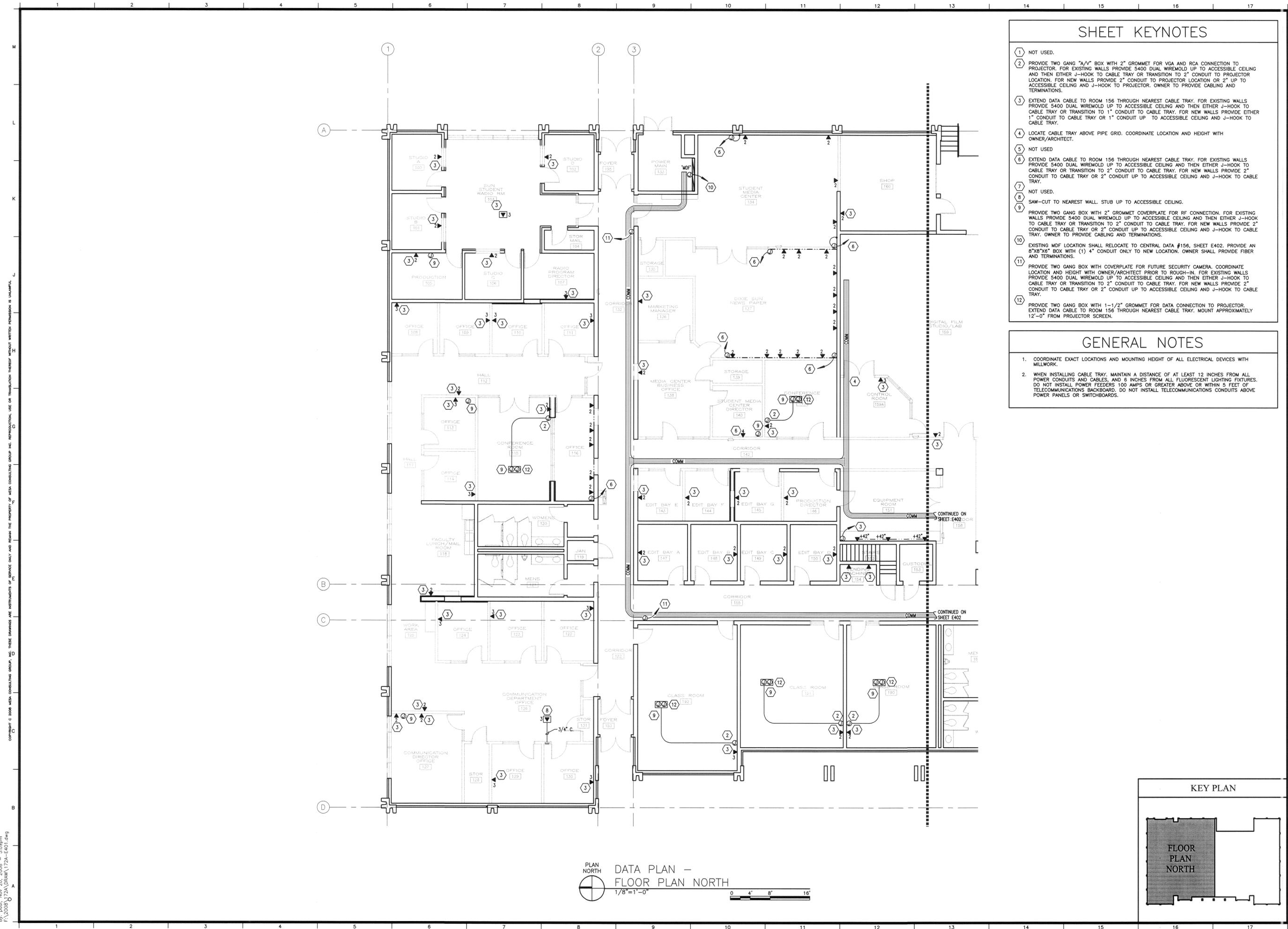
PROJECT NO.  
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SHEET  
 POWER PLAN  
 FLOOR PLAN  
 NORTH

SHEET NO.

E301



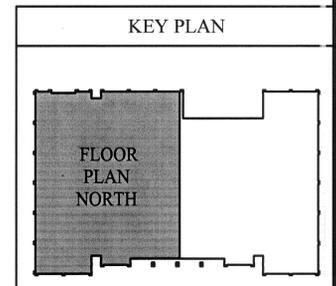


### SHEET KEYNOTES

- 1 NOT USED.
- 2 PROVIDE TWO GANG "A/V" BOX WITH 2" GROMMET FOR VGA AND RCA CONNECTION TO PROJECTOR. FOR EXISTING WALLS PROVIDE 5/8" DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 2" CONDUIT TO PROJECTOR LOCATION. FOR NEW WALLS PROVIDE 2" CONDUIT TO PROJECTOR LOCATION OR 2" UP TO ACCESSIBLE CEILING AND J-HOOK TO PROJECTOR. OWNER TO PROVIDE CABLING AND TERMINATIONS.
- 3 EXTEND DATA CABLE TO ROOM 156 THROUGH NEAREST CABLE TRAY. FOR EXISTING WALLS PROVIDE 5/8" DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 1" CONDUIT TO CABLE TRAY. FOR NEW WALLS PROVIDE EITHER 1" CONDUIT TO CABLE TRAY OR 1" CONDUIT UP TO ACCESSIBLE CEILING AND J-HOOK TO CABLE TRAY.
- 4 LOCATE CABLE TRAY ABOVE PIPE GRID. COORDINATE LOCATION AND HEIGHT WITH OWNER/ARCHITECT.
- 5 NOT USED.
- 6 EXTEND DATA CABLE TO ROOM 156 THROUGH NEAREST CABLE TRAY. FOR EXISTING WALLS PROVIDE 5/8" DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 2" CONDUIT TO CABLE TRAY. FOR NEW WALLS PROVIDE 2" CONDUIT TO CABLE TRAY OR 2" CONDUIT UP TO ACCESSIBLE CEILING AND J-HOOK TO CABLE TRAY.
- 7 NOT USED.
- 8 NOT USED.
- 9 SAW-CUT TO NEAREST WALL. STUB UP TO ACCESSIBLE CEILING.
- 10 PROVIDE TWO GANG BOX WITH 2" GROMMET COVERPLATE FOR RF CONNECTION. FOR EXISTING WALLS PROVIDE 5/8" DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 2" CONDUIT TO CABLE TRAY. FOR NEW WALLS PROVIDE 2" CONDUIT TO CABLE TRAY OR 2" CONDUIT UP TO ACCESSIBLE CEILING AND J-HOOK TO CABLE TRAY. OWNER TO PROVIDE CABLING AND TERMINATIONS.
- 11 EXISTING MDF LOCATION SHALL RELOCATE TO CENTRAL DATA #156, SHEET E402. PROVIDE AN 8"x8"x6" BOX WITH (1) 4" CONDUIT ONLY TO NEW LOCATION. OWNER SHALL PROVIDE FIBER AND TERMINATIONS.
- 12 PROVIDE TWO GANG BOX WITH COVERPLATE FOR FUTURE SECURITY CAMERA. COORDINATE LOCATION AND HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. FOR EXISTING WALLS PROVIDE 5/8" DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 2" CONDUIT TO CABLE TRAY. FOR NEW WALLS PROVIDE 2" CONDUIT TO CABLE TRAY OR 2" CONDUIT UP TO ACCESSIBLE CEILING AND J-HOOK TO CABLE TRAY.

### GENERAL NOTES

- 1. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHT OF ALL ELECTRICAL DEVICES WITH MILLWORK.
- 2. WHEN INSTALLING CABLE TRAY, MAINTAIN A DISTANCE OF AT LEAST 12 INCHES FROM ALL POWER CONDUITS AND CABLES, AND 6 INCHES FROM ALL FLUORESCENT LIGHTING FIXTURES. DO NOT INSTALL POWER FEEDERS 100 AMPS OR GREATER ABOVE OR WITHIN 5 FEET OF TELECOMMUNICATIONS BACKBOARD. DO NOT INSTALL TELECOMMUNICATIONS CONDUITS ABOVE POWER PANELS OR SWITCHBOARDS.



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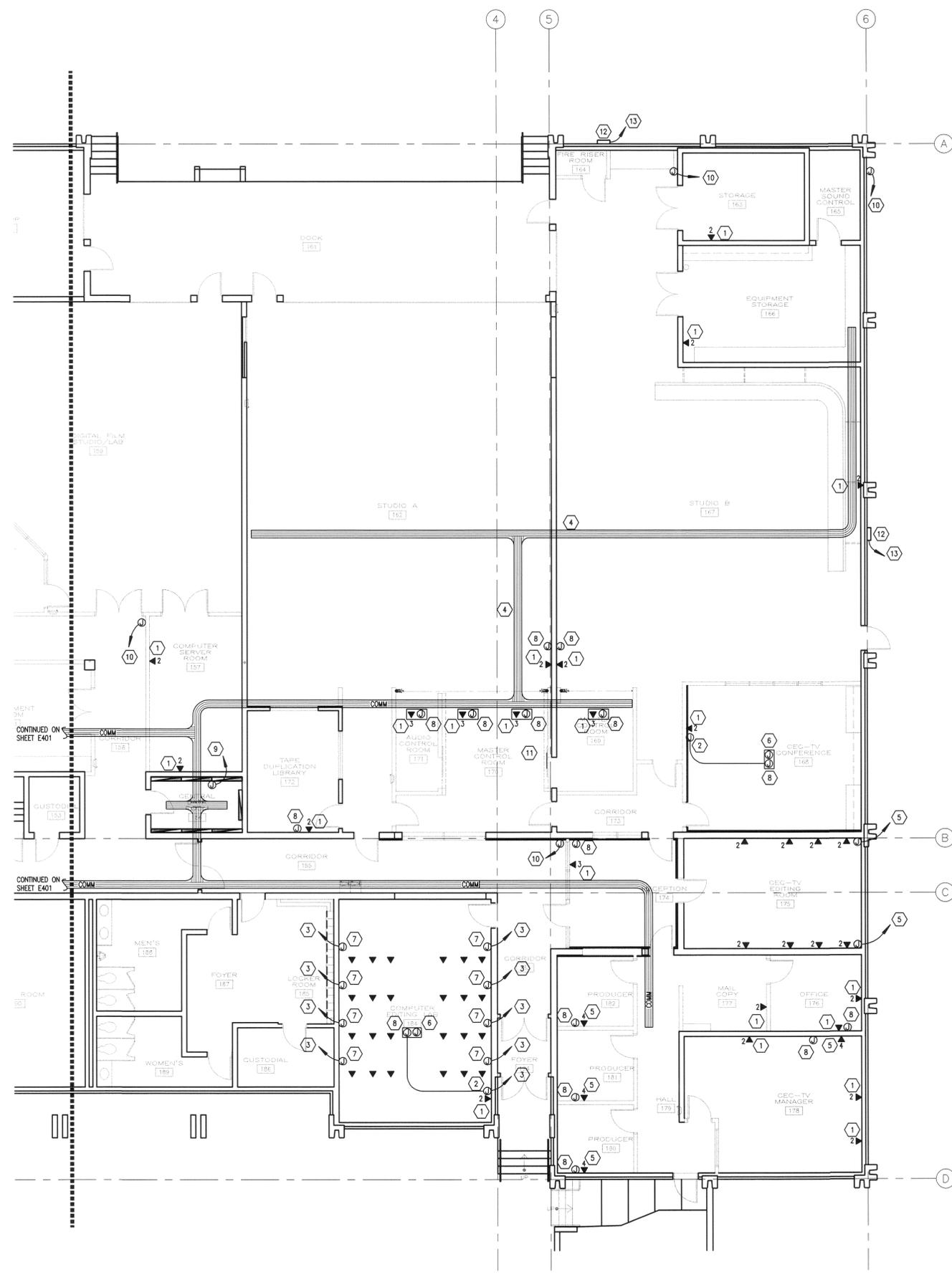
DATE: 11/21/2008  
PROJECT NO.: 08172A  
SHEET: DATA PLAN - FLOOR PLAN NORTH  
SHEET NO.: E401

By: paul, Nov 20, 2008 - 5:09pm  
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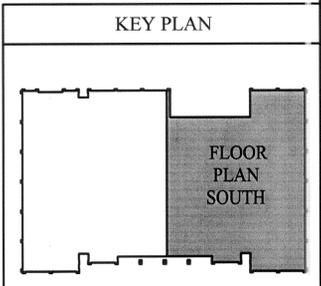


### SHEET KEYNOTES

1. EXTEND DATA CABLE TO ROOM 156 THROUGH NEAREST CABLE TRAY. FOR EXISTING WALLS PROVIDE 5400 DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 1" CONDUIT TO CABLE TRAY. FOR NEW WALLS PROVIDE EITHER 1" CONDUIT TO CABLE TRAY OR 1" CONDUIT UP TO ACCESSIBLE CEILING AND J-HOOK TO CABLE TRAY.
2. PROVIDE TWO GANG "A/V" BOX WITH 2" GROMMET FOR VGA AND RCA CONNECTION TO PROJECTOR. FOR EXISTING WALLS PROVIDE 5400 DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 2" CONDUIT TO PROJECTOR LOCATION. FOR NEW WALLS PROVIDE 2" CONDUIT TO PROJECTOR LOCATION OR 2" UP TO ACCESSIBLE CEILING AND J-HOOK TO PROJECTOR. OWNER TO PROVIDE CABLING AND TERMINATIONS.
3. EXTEND DATA CABLE TO ROOM 156 THROUGH NEAREST CABLE TRAY. FOR EXISTING WALLS PROVIDE 5400 DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 1" CONDUIT TO CABLE TRAY. FOR NEW WALLS PROVIDE 1" CONDUIT TO CABLE TRAY OR 1" CONDUIT UP TO ACCESSIBLE CEILING AND J-HOOK TO CABLE TRAY.
4. LOCATE CABLE TRAY ABOVE PIPE GRID. COORDINATE LOCATION AND HEIGHT WITH OWNER/ARCHITECT.
5. EXTEND DATA CABLE TO ROOM 156 THROUGH NEAREST CABLE TRAY. FOR EXISTING WALLS PROVIDE 5400 DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 2" CONDUIT TO CABLE TRAY. FOR NEW WALLS PROVIDE 2" CONDUIT TO CABLE TRAY OR 2" CONDUIT UP TO ACCESSIBLE CEILING AND J-HOOK TO CABLE TRAY.
6. PROVIDE TWO GANG BOX WITH 1-1/2" GROMMET FOR DATA CONNECTION TO PROJECTOR. EXTEND DATA CABLE TO ROOM 156 THROUGH NEAREST CABLE TRAY. MOUNT APPROXIMATELY 12'-0" FROM PROJECTOR SCREEN.
7. EXTEND DATA CABLE ALONG COMPUTER TABLE FOR EACH STATION. CONNECT TO SYSTEMS FURNITURE PER FURNITURE MANUFACTURERS SPECIFICATIONS.
8. PROVIDE TWO GANG BOX WITH 2" GROMMET COVERPLATE FOR RF CONNECTION. FOR EXISTING WALLS PROVIDE 5400 DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 2" CONDUIT TO CABLE TRAY. FOR NEW WALLS PROVIDE 2" CONDUIT TO CABLE TRAY OR 2" CONDUIT UP TO ACCESSIBLE CEILING AND J-HOOK TO CABLE TRAY. OWNER TO PROVIDE CABLING AND TERMINATIONS.
9. PROVIDE AN 8"x6"x6" BOX WITH (1) 4" CONDUIT ONLY TO POWER MAIN #133, SHEET E401 EXISTING MDF. FIBER AND TERMINATIONS WILL BE PROVIDED BY OTHERS.
10. PROVIDE TWO GANG BOX WITH COVERPLATE FOR FUTURE SECURITY CAMERA. COORDINATE LOCATION AND HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. FOR EXISTING WALLS PROVIDE 5400 DUAL WIREMOLD UP TO ACCESSIBLE CEILING AND THEN EITHER J-HOOK TO CABLE TRAY OR TRANSITION TO 2" CONDUIT TO CABLE TRAY. FOR NEW WALLS PROVIDE 2" CONDUIT TO CABLE TRAY OR 2" CONDUIT UP TO ACCESSIBLE CEILING AND J-HOOK TO CABLE TRAY.
11. RUN (1) 2" CONDUIT FROM SATELLITE DISH LOCATION ON ROOF TO SATELLITE HEAD-END IN ROOM 170. SEE DIAGRAM G006 ON SHEET E703. COORDINATE LOCATION OF HEAD-END WITH OWNER/ARCHITECT OWNER TO PROVIDE CABLING AND TERMINATIONS.
12. PROVIDE 24"x24"x6" NEMA 3R WP JUNCTION BOX WITH HINGED LOCKABLE LID FOR TELEVISION SIGNAL.
13. PROVIDE 4" CONDUIT FOR JUNCTION BOX TO TELEVISION HEAD-END IN ROOM 170. COORDINATE LOCATION OF HEAD-END WITH OWNER/ARCHITECT. OWNER TO PROVIDE CABLING AND TERMINATIONS.

### GENERAL NOTES

1. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHT OF ALL ELECTRICAL DEVICES WITH MILLWORK.
2. WHEN INSTALLING CABLE TRAY, MAINTAIN A DISTANCE OF AT LEAST 12 INCHES FROM ALL POWER CONDUITS AND CABLES, AND 6 INCHES FROM ALL FLUORESCENT LIGHTING FIXTURES. DO NOT INSTALL POWER FEEDERS 100 AMPS OR GREATER ABOVE OR WITHIN 5 FEET OF TELECOMMUNICATIONS BACKBOARD. DO NOT INSTALL TELECOMMUNICATIONS CONDUITS ABOVE POWER PANELS OR SWITCHBOARDS.



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SUBMITTAL  
 △ DFCM COMMENTS  
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 DATE 11/21/2008  
 PROJECT NO. 08172A  
 SHEET DATA PLAN - FLOOR PLAN SOUTH  
 SHEET NO. E402

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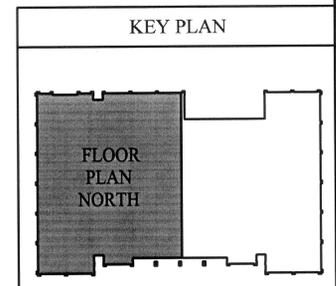


**GENERAL NOTES**

1. ALL EXISTING HEAT DETECTORS TO REMAIN. MAINTAIN OPERATIONAL CIRCUITRY. ADJUST IN SPACE WITH CEILING AS REQUIRED.
2. ALL EXISTING PULL STATIONS TO REMAIN.
3. MATCH NEW HORN/STROBE DEVICES WITH LIKE DEVICES. MATCH EXISTING HORN/STROBE DEVICES WITH LIKE DEVICES.
4. REPLACE ALL EXISTING DUCT DETECTORS WITH NEW IN SAME LOCATION AND TIE INTO INTELLIGENT FIRE ALARM SYSTEM.

**SHEET KEYNOTES**

- 1 EXISTING HORN STROBE TO REMAIN.
- 2 RELOCATE FIRE ALARM DEVICE TO THIS LOCATION. REFER TO SHEET E105 FOR EXISTING FIRE ALARM DEVICE TO BE RELOCATED.
- 3 REPLACE ALL EXISTING SMOKE DETECTORS WITH NEW IN SAME LOCATION.
- 4 RELOCATE FIRE ALARM DEVICE TO THIS LOCATION. REFER TO SHEET E106 FOR EXISTING FIRE ALARM DEVICE TO BE RELOCATED.
- 5 PROVIDE HORN/STROBE AND PULL STATION IN MECHANICAL ROOM AT TOP OF STAIRS. COORDINATE LOCATION WITH OWNER/ARCHITECT.



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R: VISIONS  
D: TR  
11/21/2008  
PROJECT NO.  
08172A  
S: REV  
FIRE ALARM PLAN  
FLOOR PLAN NORTH  
SHEET NO.

E501



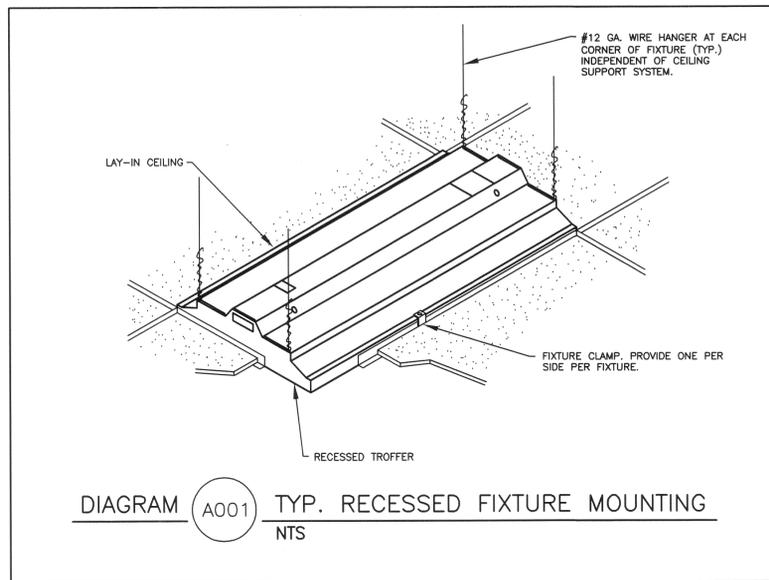


DIAGRAM (A001) TYP. RECESSED FIXTURE MOUNTING  
NTS

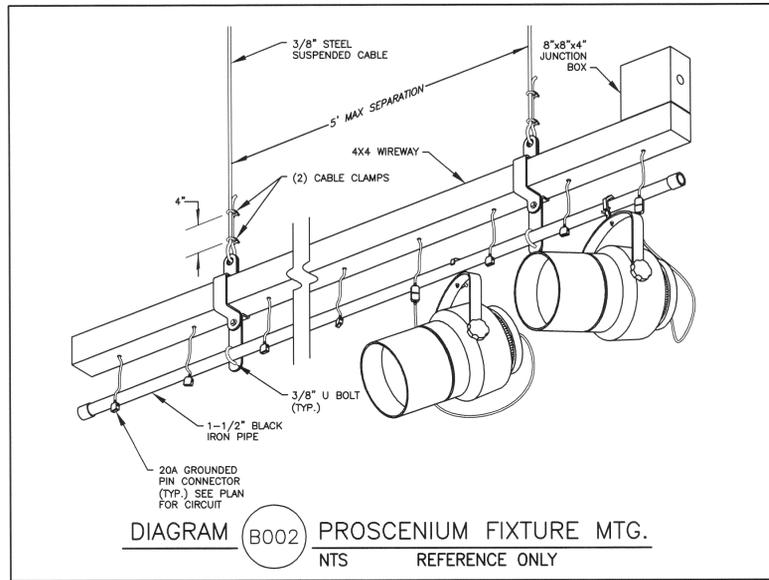


DIAGRAM (B002) PROSCENIUM FIXTURE MTG.  
NTS REFERENCE ONLY

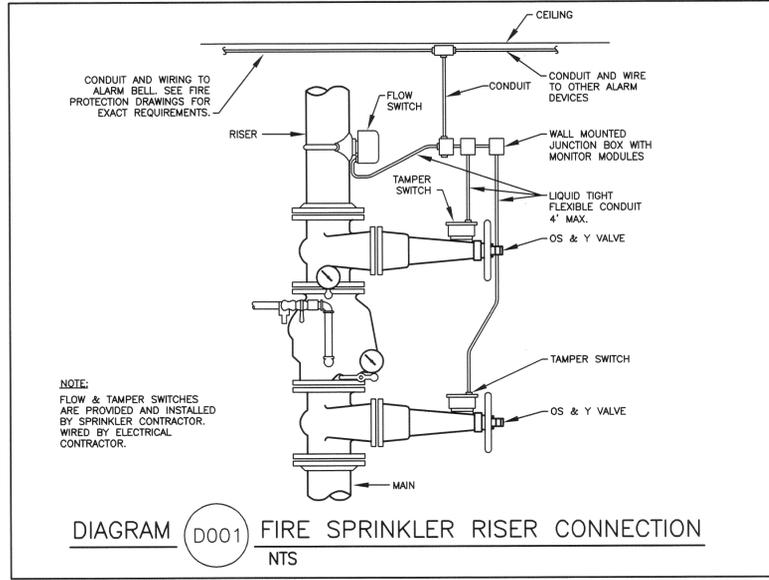


DIAGRAM (D001) FIRE SPRINKLER RISER CONNECTION  
NTS

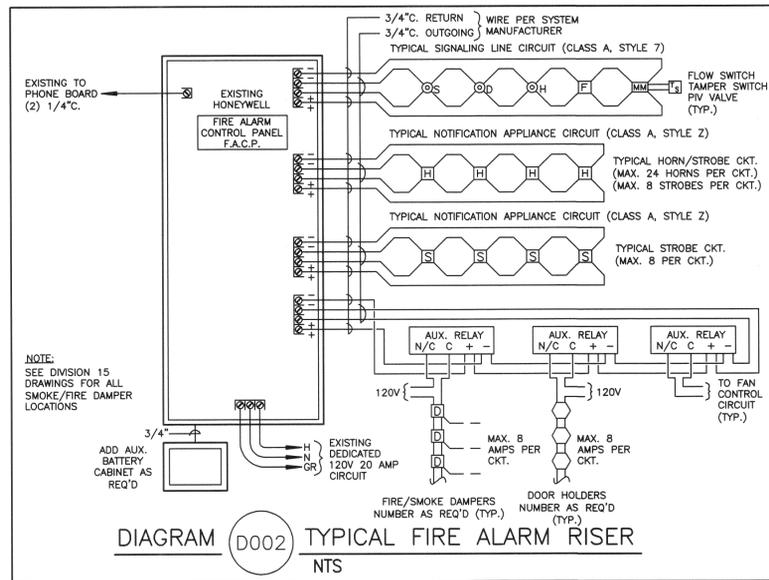


DIAGRAM (D002) TYPICAL FIRE ALARM RISER  
NTS

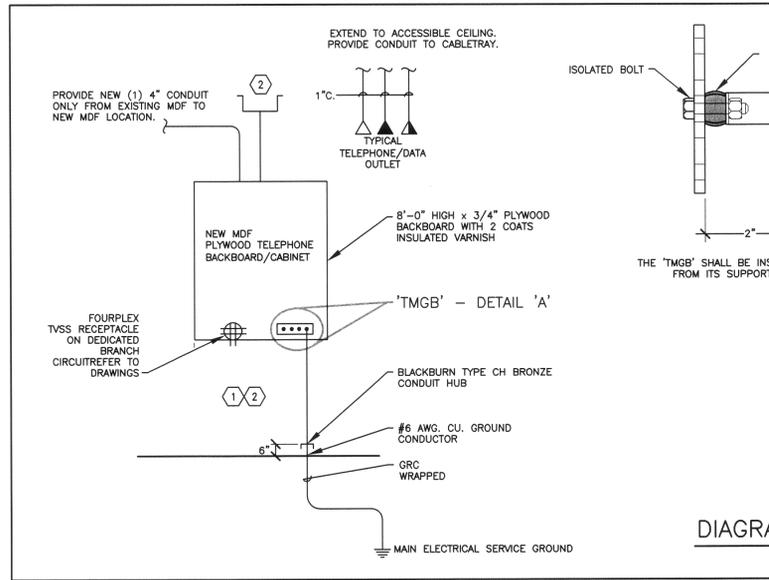
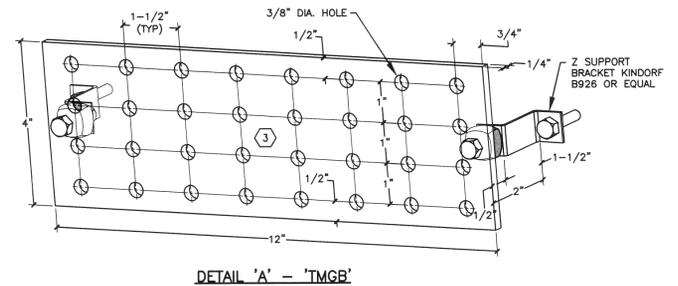


DIAGRAM (F001) TELEPHONE RACEWAY DIAGRAM  
NTS



DETAIL 'A' - 'TMGB'

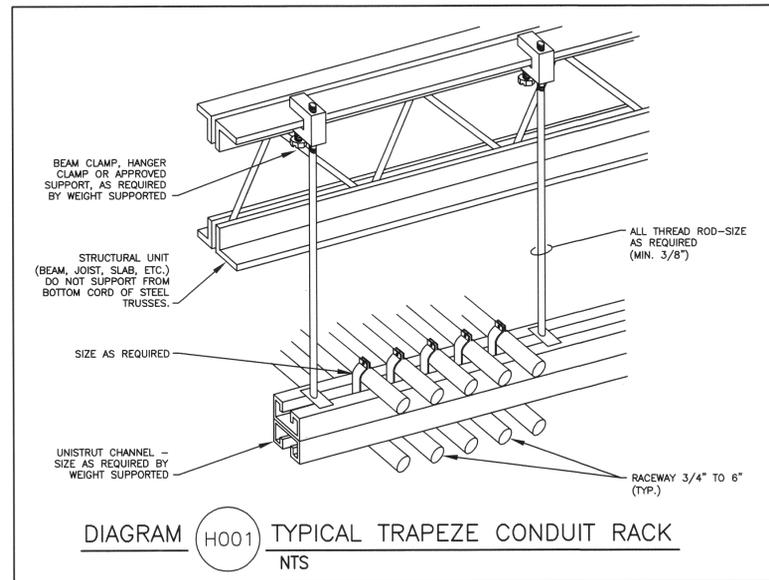


DIAGRAM (H001) TYPICAL TRAPEZE CONDUIT RACK  
NTS

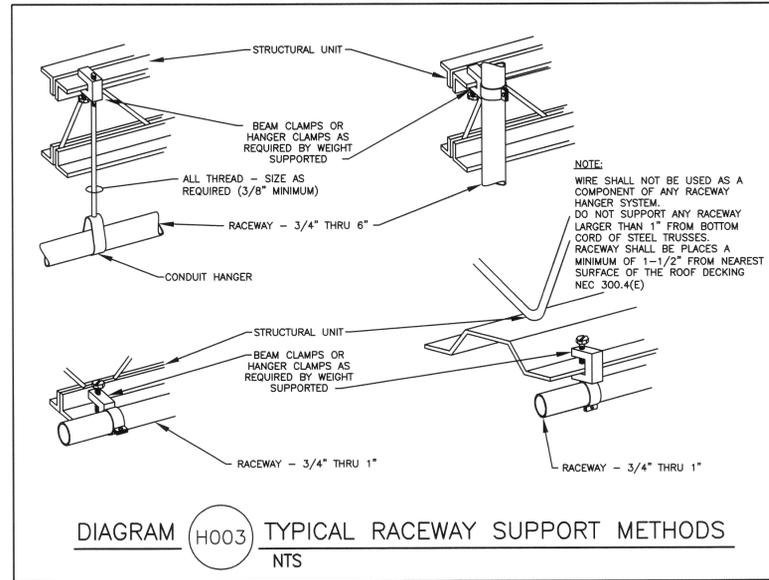


DIAGRAM (H003) TYPICAL RACEWAY SUPPORT METHODS  
NTS

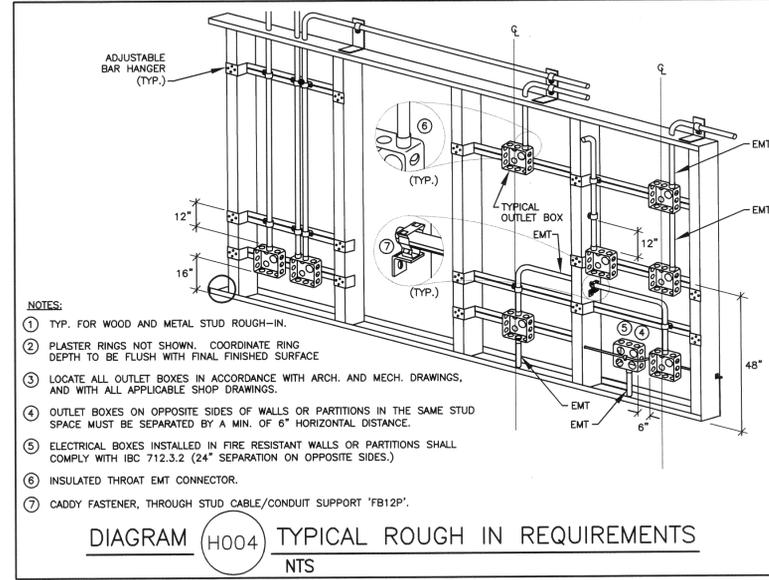


DIAGRAM (H004) TYPICAL ROUGH IN REQUIREMENTS  
NTS

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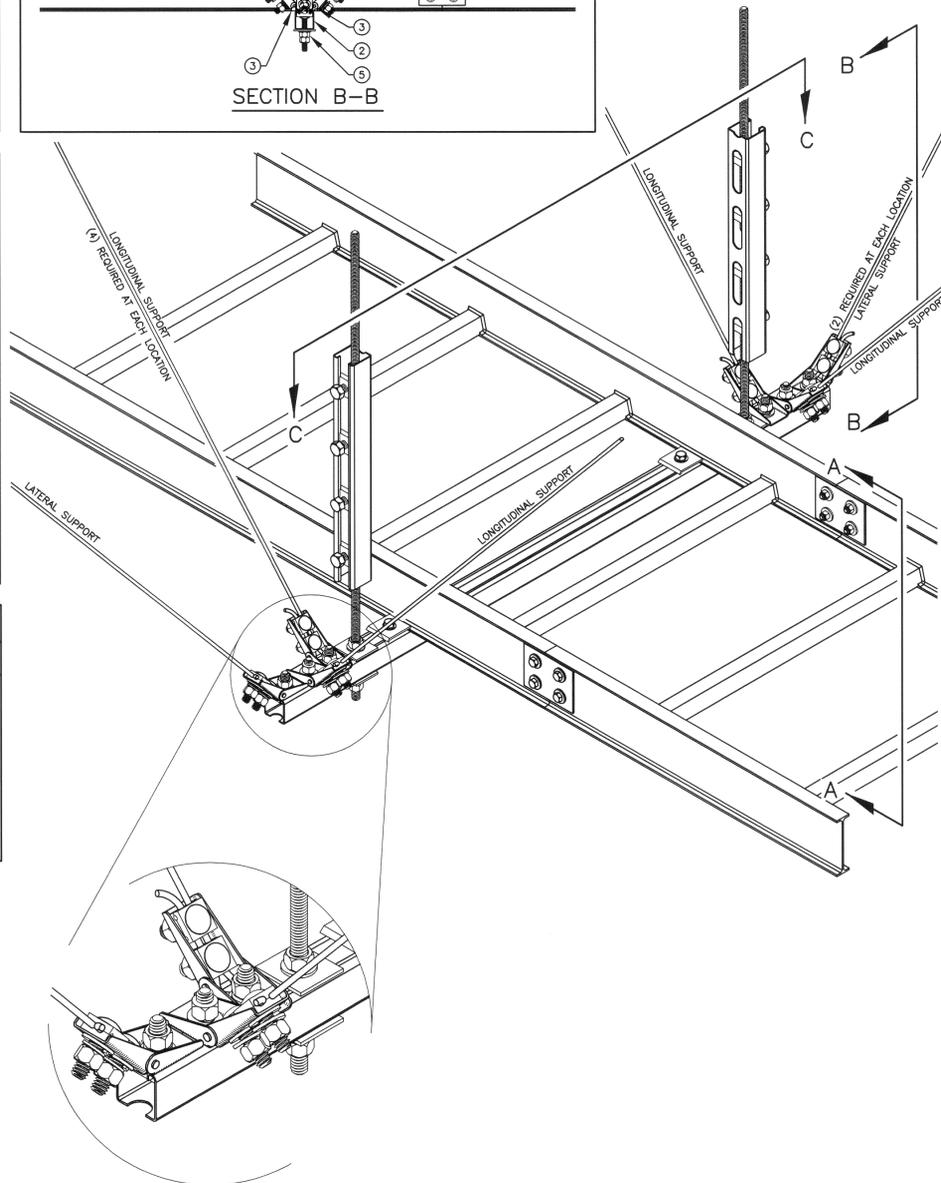
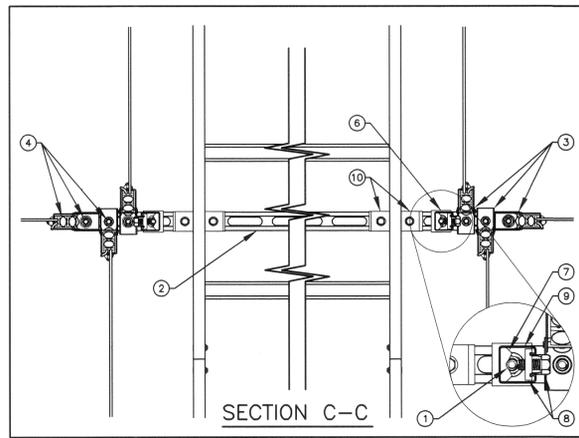
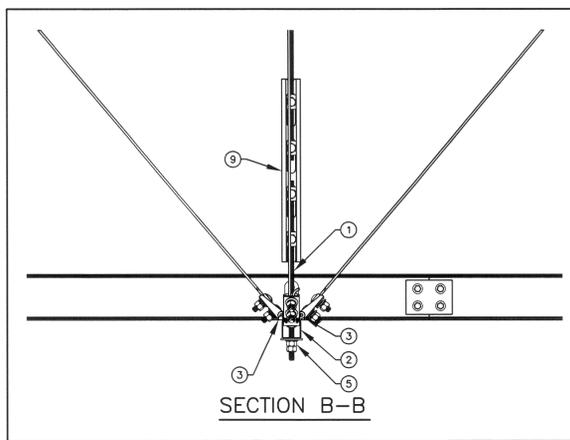
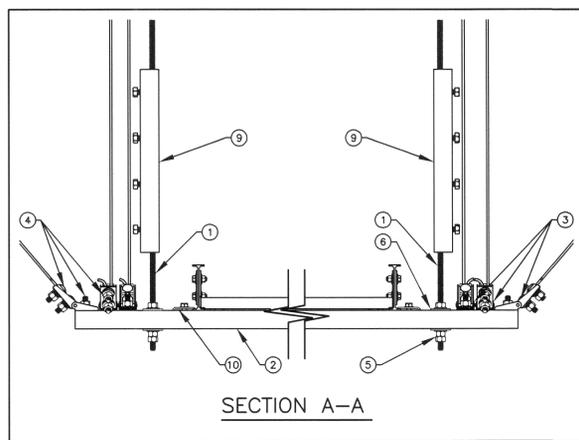


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DATE  
11/21/2008  
PROJECT NO.  
08172A

ELECTRICAL DIAGRAMS

E701



**PARTS LIST**

ITEM No.	DESCRIPTION	SIZE	CATALOG No. UNISTRUT
1	THREADED ROD (MIN. MODULUS OF ELASTICITY = 29x10 <sup>6</sup> LBS/IN)	SEE SCHEDULE FOR DIAMETER	-
2	METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000
3	CABLE BRACE SWIVEL ANCHOR	SEE TABLE	MASON IND. SCB-X
4	HEX HEAD CAP SCREW WITH SPRING NUT	1/2"-13"	HHCS/P1010
5	FLAT WASHER WITH HEX NUT	3/8"	-
6	FLAT PLATE FITTING WITH HEX NUT	3/8" OR 1/2" AS REQ'D	P1063 OR P1064
7	CRADLE	-	P2485
8	HEX HEAD CAP SCREW WITH NUT	3/8"x1"	HHCS/P2008
9	SLOTTED METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000T
10	CABLE TRAY ATTACHMENT CLIP W/CAP SCREW & NUT	-	-

**NOTES:**

1. PROVIDE LONGITUDINAL AND LATERAL SUPPORT SPACING IN ACCORDANCE WITH THE FOLLOWING:

MAX CABLE TRAY PLUS CABLE WT. POUNDS/FOOT	VERTICAL SUPPORT SPACING FEET	LATERAL SUPPORT SPACING FEET	LONGITUDINAL SUPPORT SPACING FEET	ROD DIAMETER INCHES	CABLE BRACE SWIVEL ANCHOR & CABLE
25	10	10	20	.375	SCB2
50	10	10	20	.500	SCB3

2. PROVIDE METAL FRAMING CHANNEL ON ALL VERTICAL SUPPORTS WHEN ROD LENGTH EXCEEDS 14". STIFFENER CLIP SPACING SHALL BE 12".

3. SEE SPECIFICATIONS FOR APPROVED FITTINGS FOR ATTACHMENT TO STRUCTURE.

**GENERAL NOTES**

- COORDINATE ROUTING OF CABLE TRAYS AND SUPPORT SYSTEMS WITH DIVISION 15.
- DO NOT SUPPORT FROM BOTTOM CORD OF STEEL TRUSSES.

DIAGRAM (H006) SEISMIC BRACING FOR CABLE TRAY/CABLES  
(EXPOSED STRUCTURE OR ABOVE CEILING ONLY)

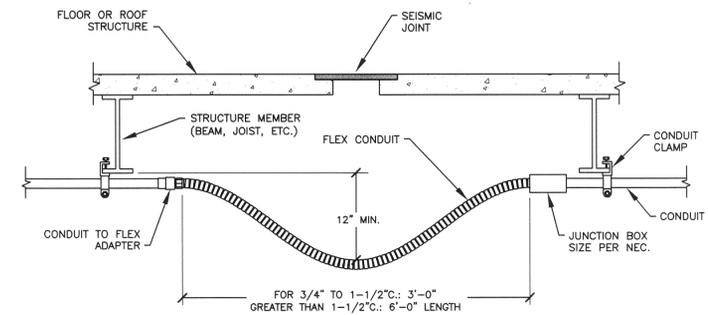


DIAGRAM (H010) CONDUIT CROSSING SEISMIC JOINT  
NTS

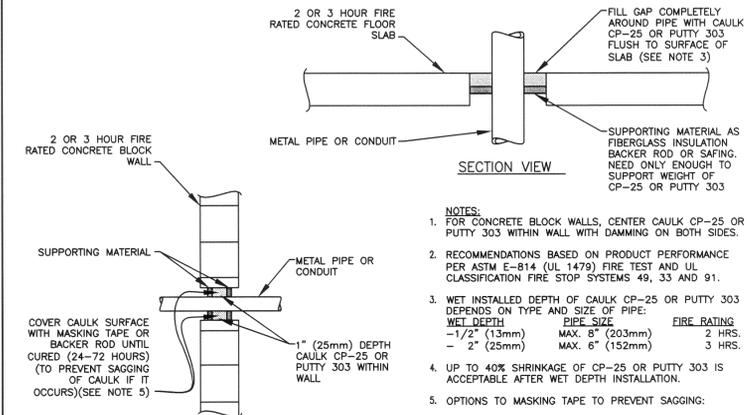


DIAGRAM (H012) FIRE STOP  
NTS

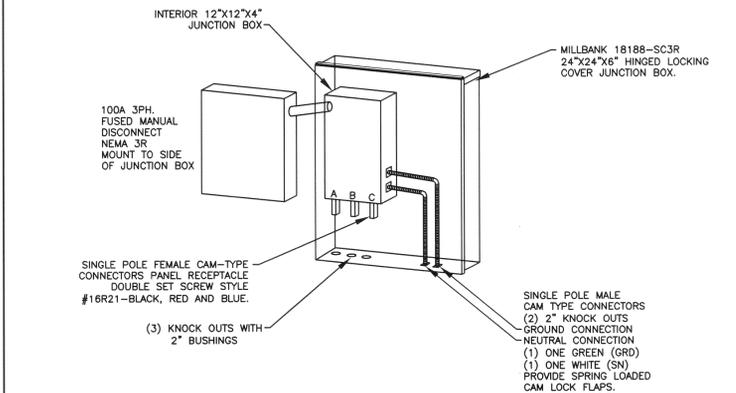


DIAGRAM (M002) EXTERIOR COMPANY SWITCH WITH CAM-LOCKS  
NTS



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SHEET  
ELECTRICAL DIAGRAMS

SHEET NO.  
E702

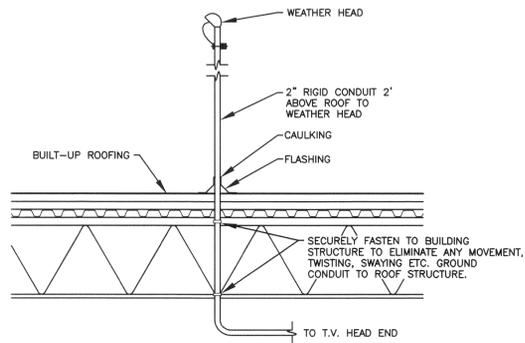


DIAGRAM (G006) TV SATELLITE DISH MOUNTING NTS

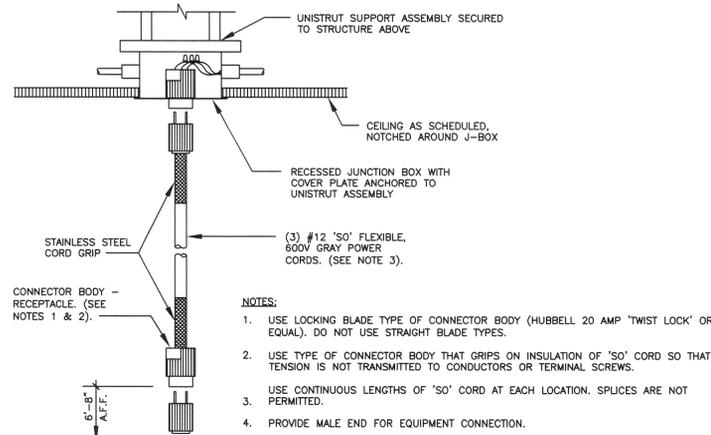


DIAGRAM (K001) TWIST LOCK CORD DROP NTS

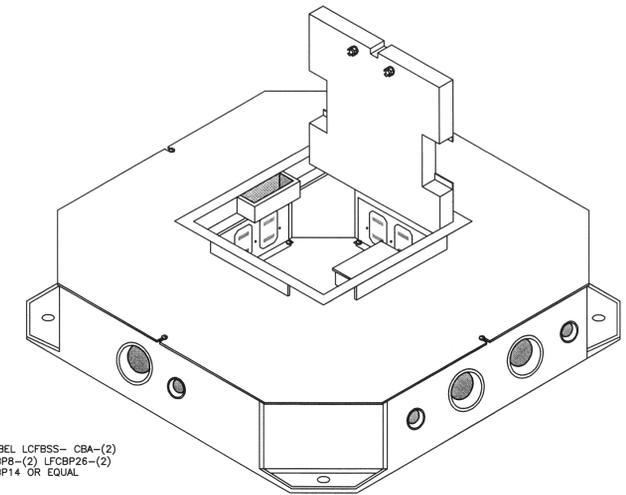


DIAGRAM (L007) RECESSED MULTISERVICE FLOOR BOX NTS

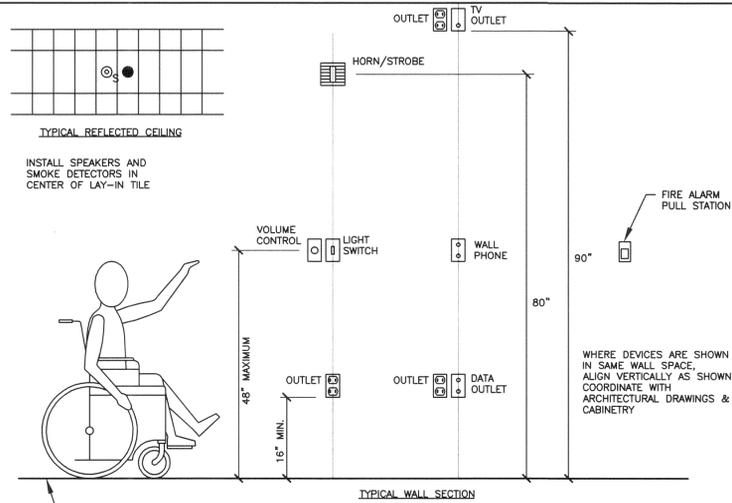


DIAGRAM (R001) DEVICE MOUNTING HEIGHTS NTS

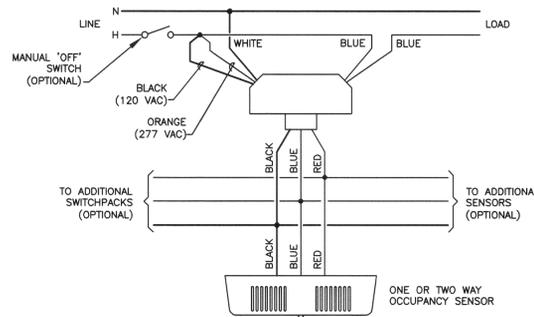


DIAGRAM (R006) OCCUPANCY SENSORS NTS

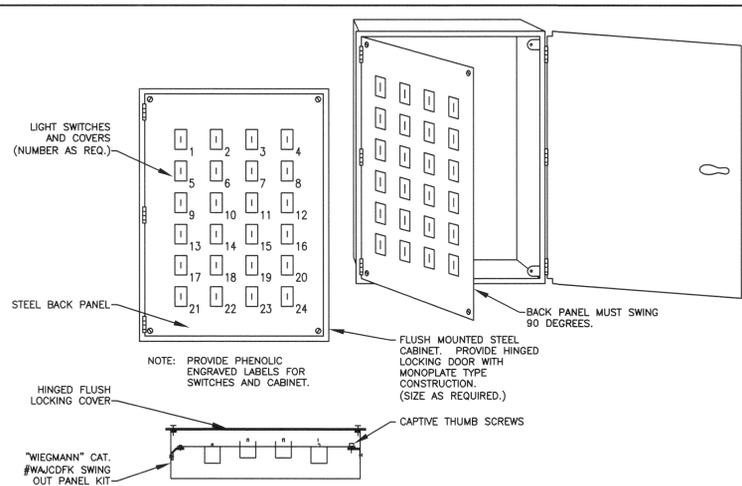
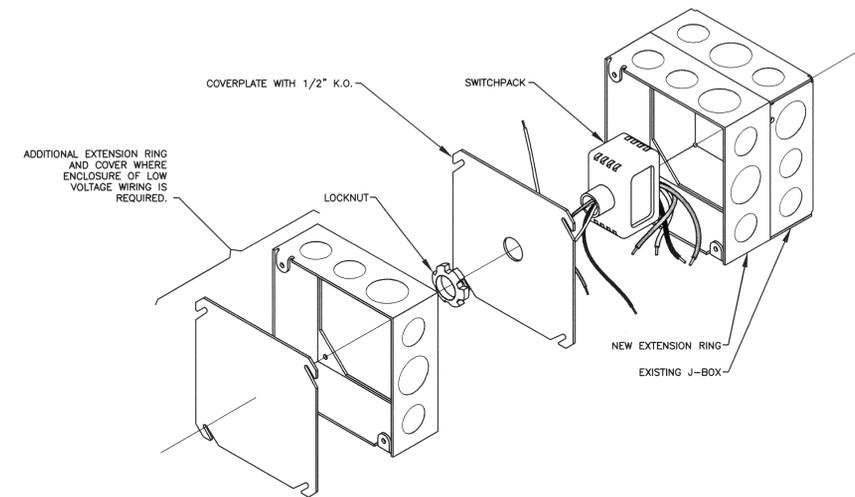


DIAGRAM (P004) SWITCHING CABINET IN FILM STUDIO NTS

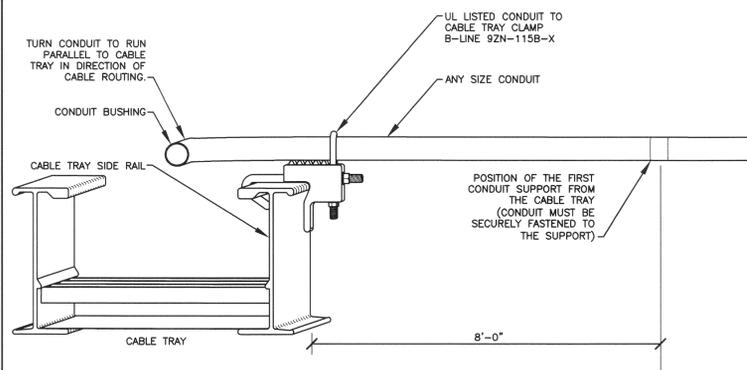


DIAGRAM (I006) CONDUIT TO CABLE TRAY NTS

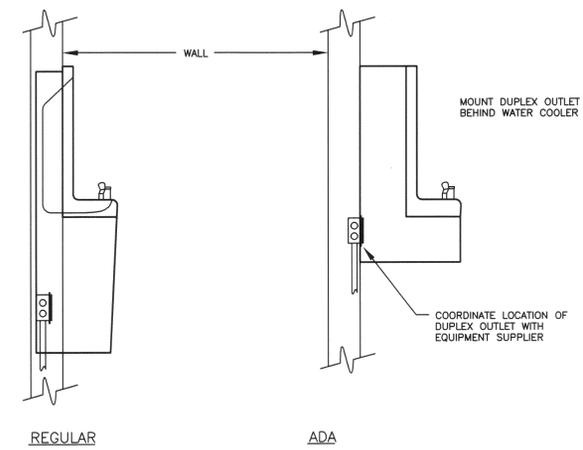


DIAGRAM (R002) ELECTRIC WATER COOLER (EWC) NTS

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SHEET  
ELECTRICAL  
DIAGRAMS

SHEET NO.  
E703

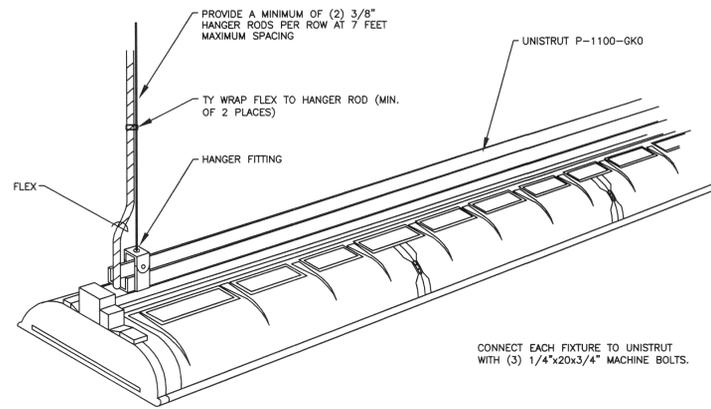
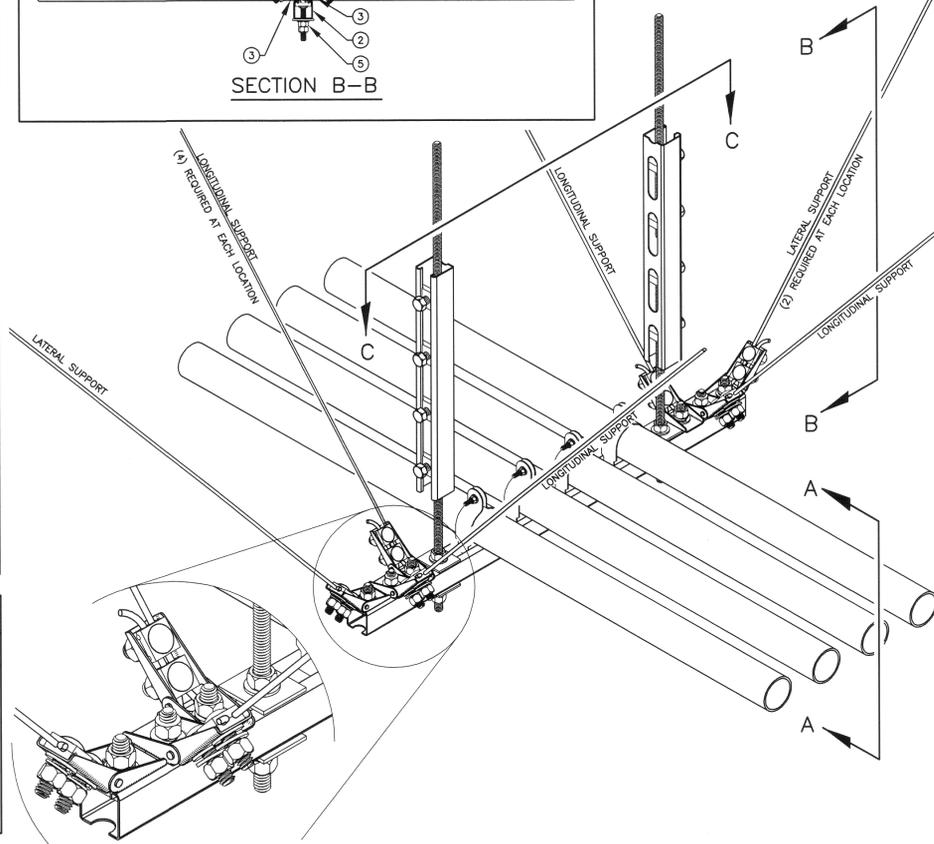
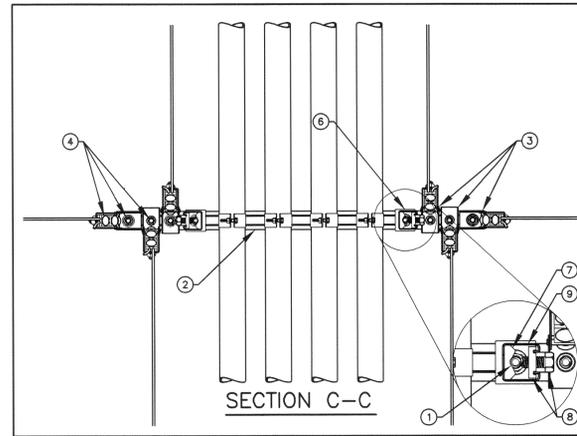
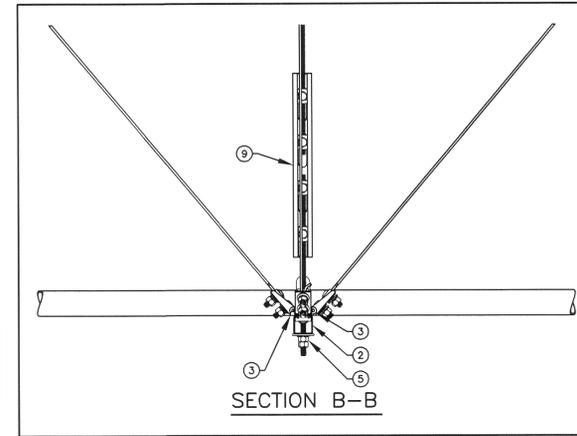
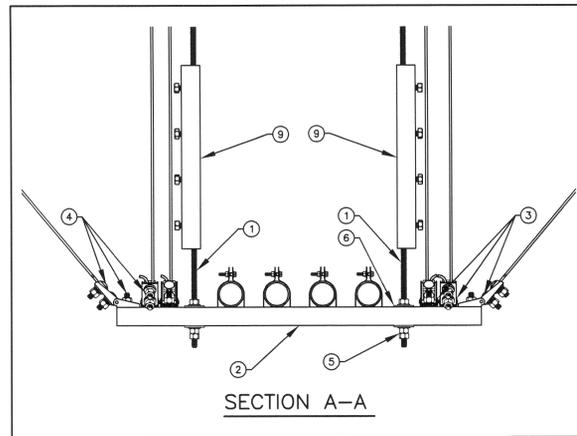


DIAGRAM (A010) FIXTURE MOUNTING  
NTS



PARTS LIST

ITEM No.	DESCRIPTION	SIZE	CATALOG No. UNISTRUT
1	THREADED ROD (MIN. MODULUS OF ELASTICITY = 29x10 <sup>6</sup> LBS/IN)	SEE SCHEDULE FOR DIAMETER	-
2	METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000
3	CABLE BRACE SWIVEL ANCHOR	SEE TABLE	MASON IND. SCB-X
4	HEX HEAD CAP SCREW WITH SPRING NUT	1/2"-13"	HHCS/P1010
5	FLAT WASHER WITH HEX NUT	3/8"	-
6	FLAT PLATE FITTING WITH HEX NUT	3/8" OR 1/2" AS REQ'D	P1063 OR P1064
7	CRADLE	-	P2485
8	HEX HEAD CAP SCREW WITH NUT	3/8"x1"	HHCS/P2008
9	SLOTTED METAL FRAMING CHANNEL	1-5/8"x1-5/8"	P1000T

NOTES:

1. PROVIDE LONGITUDINAL AND LATERAL SUPPORT SPACING IN ACCORDANCE WITH THE FOLLOWING:

MAX CONDUIT/WIRE WT.	VERTICAL SUPPORT SPACING	LATERAL SUPPORT SPACING	LONGITUDINAL SUPPORT SPACING	ROD DIAMETER	CONTROL BUCKLING LENGTH (2)	CABLE BRACE SWIVEL ANCHOR & CABLE
POUNDS/FOOT	FEET	FEET	FEET	INCHES	INCHES	
15	10	20	20	.375	18	SCB2
30	10	10	20	.375	12	SCB2
45	10	10	20	.375	10	SCB3
60	10	10	20	.500	16	SCB3

2. PROVIDE METAL FRAMING CHANNEL ON ALL VERTICAL SUPPORTS WHEN ROD LENGTH EXCEEDS SPECIFIED VALUES. STIFFENER CLIP SPACING SHALL BE AS INDICATED.

3. PROVIDE LATERAL SUPPORTS AT SPACING INDICATED ON BOTH SIDES OF CONDUIT RACK.

GENERAL NOTES

1. COORDINATE ROUTING OF CONDUIT RACKS AND SUPPORT SYSTEMS WITH DIVISION 15.

FEEDER WEIGHTS (COPPER CONDUCTORS)					
TYPE	AMPERE RATING	W/RIGID (PER 10')	W/MC (PER 10')	W/EMT (PER 10')	
20	30	12.61	9.21	5.74	
30	30	13.00	9.80	6.13	
40	30	13.39	9.99	6.52	
28	40	13.42	10.02	6.55	
38	40	14.08	10.68	7.21	
48	40	14.74	11.34	7.87	
26	55	14.38	10.98	7.51	
36	55	15.36	11.96	8.49	
46	55	21.29	16.49	11.80	
24	70	16.09	12.69	9.22	
34	70	22.59	17.79	12.90	
44	70	29.82	22.82	17.59	
32	95	31.47	24.27	19.24	
42	95	33.82	26.82	21.59	
31	110	34.07	26.87	21.84	
41	110	42.46	33.26	28.43	
31X	150	39.54	30.34	23.51	
41X	150	43.24	34.04	27.21	
32X	175	42.24	33.04	26.21	
42X	175	55.43	43.93	34.01	
33X	200	54.13	42.63	32.71	
43X	200	68.83	48.33	38.41	
34X	230	58.90	47.40	37.48	
44X	230	87.75	71.05	53.85	
32S	255	62.95	51.45	41.53	
42S	255	83.15	74.45	59.25	
33S	310	94.65	77.95	60.75	
43S	310	122.70	99.80	77.00	
340	335	115.85	92.95	70.15	
440	335	129.10	106.20	83.40	
350	380	140.20	111.10	93.10	
450	380	156.60	127.50	109.90	

CONDUCTOR WEIGHTS			
WIRE SIZE	#/FT	FOUR CONDORS	
14	0.016	0.064	
12	0.025	0.100	
10	0.039	0.156	
8	0.066	0.264	
6	0.098	0.392	
4	0.155	0.620	
3	0.190	0.760	
2	0.235	0.940	
1	0.300	1.200	
1/0	0.370	1.480	
2/0	0.460	1.840	
3/0	0.570	2.280	
4/0	0.710	2.840	
250	0.845	3.380	
300	1.020	4.080	
350	1.165	4.660	
400	1.325	5.300	
500	1.640	6.560	
600	2.005	8.020	
750	2.480	9.920	
1000	3.300	13.200	

SIZE (IN)	CONDUIT TABLE								
	RIGID CONDUIT		INTERMEDIATE CONDUIT		EMT CONDUIT				
	#/FT	#/CPLG	TOTAL #/10FT	#/FT	(1) #/CPLG	TOTAL #/10FT	#/FT	(2) #/CPLG	
1/2	0.820	0.14	8.34	0.570	0.14	5.84	0.295	0.07	3.02
3/4	1.120	0.24	11.44	0.780	0.24	8.04	0.445	0.12	4.57
1	1.600	0.39	16.39	1.120	0.39	11.59	0.650	0.20	6.70
1-1/4	2.160	0.47	22.07	1.440	0.47	14.87	0.960	0.24	9.84
1-1/2	2.680	0.66	27.46	1.760	0.66	18.26	1.110	0.33	11.43
2	3.500	1.05	36.05	2.350	1.05	24.55	1.410	0.53	14.63
2-1/2	5.600	1.80	57.80	3.930	1.80	41.10	2.300	0.90	23.90
3	7.120	3.00	74.20	4.830	3.00	51.30	2.700	1.50	28.50
3-1/2	8.520	3.90	89.10	5.610	3.90	60.00	-	-	-
4	10.300	4.00	107.00	6.250	4.00	66.50	4.000	2.00	42.00
5	13.910	7.60	146.70						
6	18.500	10.75	195.75						

NOTES:  
(1) WEIGHTS USED ARE FOR RIGID STEEL CPLGS  
(2) WEIGHTS USED ARE EQUAL TO .5 TIMES RIGID STEEL CPLGS

DIAGRAM (H008) SEISMIC BRACING FOR CONDUIT RACK/CABLES  
(EXPOSED STRUCTURE OR ABOVE CEILING ONLY)



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SUBMITTAL  
FROM COMMENTS

REVISIONS

DATE: 11/21/2008  
PROJECT NO: 08172A

SHEET  
ELECTRICAL DIAGRAMS

SHEET NO.  
E704