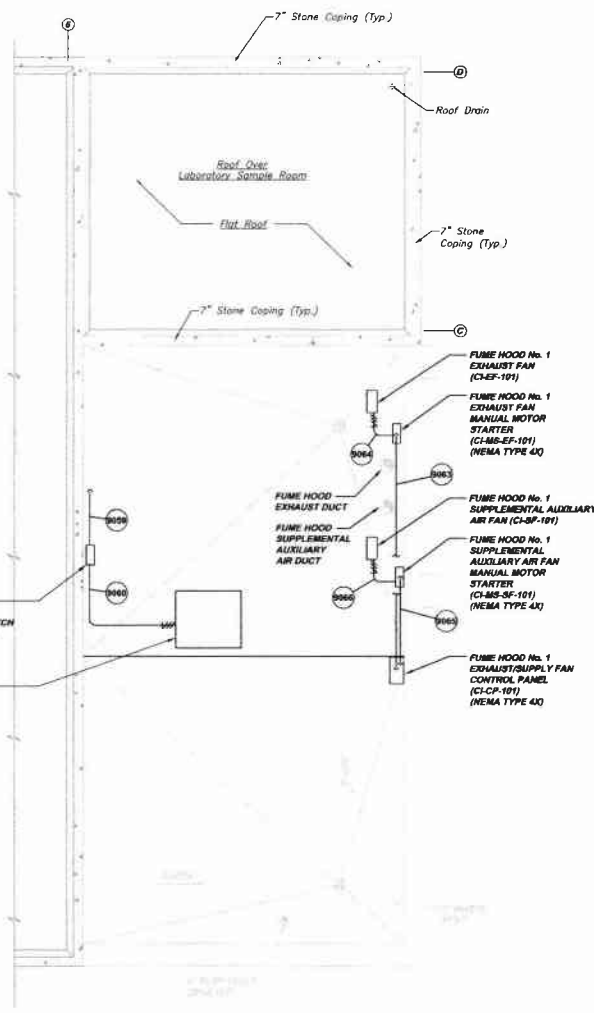


- NOTES:**
1. THE EXISTING LIGHTING PANEL, CI-LP-101 SHALL BE RECONFIGURED AS SHOWN ON THE LIGHTING SCHEDULE. APPROXIMATELY TEN (10) NEW 20 AMP SINGLE POLE CIRCUIT BREAKERS SHALL BE FURNISHED AND INSTALLED.
 2. ALL PENETRATIONS IN WALLS AND FLOORS SHALL BE SEALED WITH NON SHRINK GROUT.
 3. CONDUITS SHALL BE SUPPORTED ON THE FLAT ROOF WITH COOPER B-LINE DURA-BLOK ROOF TOP SUPPORTS.
 4. FURNISH AND INSTALL A NEW THREE POLE, 30A, 480 V, 43 KVA, HACR FEEDER CIRCUIT BREAKER, COMPLETE WITH DOOR INTERLOCKED OPERATOR'S HANDLE FOR THE NEW LABORATORY ROOFTOP HVAC UNIT. INSTALL THE CIRCUIT BREAKER IN A SPARE LOCATION OF MCC2 (REPLACE AN EXISTING COMBINATION MOTOR STARTER). TURN OVER ANY REPLACED COMPONENTS TO THE OWNER. COVER ANY UNUSED SPACE WITH BLANK COVERS. PROVIDE AN ENGRAVED IDENTIFICATION NAMEPLATE WITH THE FOLLOWING TEXT: "LABORATORY ROOFTOP HVAC UNIT."



LABORATORY ADDITION ELECTRICAL PLAN CIE2-A
SCALE: 1/4" = 1'-0"

LABORATORY ADDITION ELECTRICAL ROOF PLAN CIE2-B
SCALE: 1/4" = 1'-0"

Revision	Date	Revision	Date
		RELEASE FOR BID	

8173 CAMPBELL RUN ROAD
MCKESPORT, PENNSYLVANIA 15110
PHONE 412-434-0510
FAX 412-434-0518
INFO@mcckesport.com

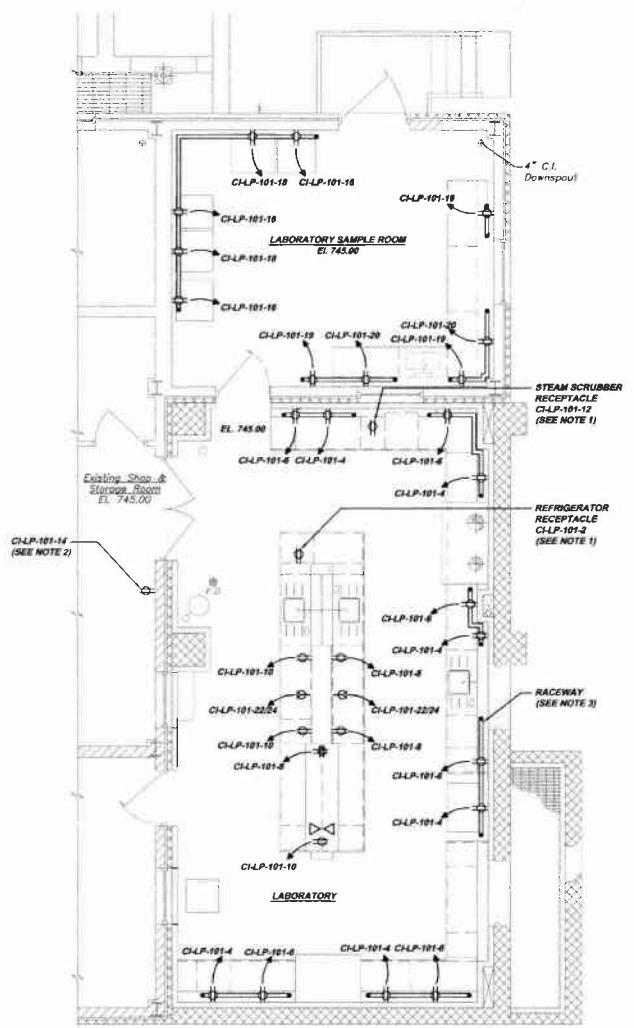
KLH ENGINEERS, INC.

**MUNICIPAL AUTHORITY OF THE CITY OF MCKESPORT
ALLEGHANY COUNTY, PENNSYLVANIA
CONSTRUCTION OF
WASTEWATER TREATMENT PLANT EXPANSION
LABORATORY ADDITION ELECTRICAL PLAN AND DETAILS**

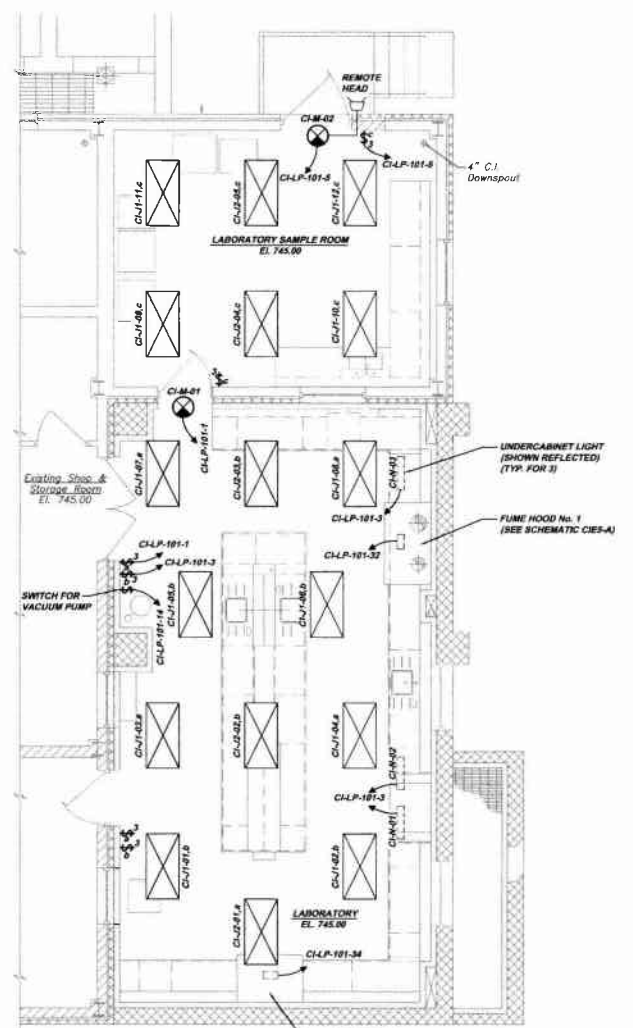
As Shown	DEC. 2012	MM	SHG
Date			
Drawn By			
Checked By			
Approved By			

Sheet No. **2**

Drawing No. **220-CIE2**



**LABORATORY ADDITION
LIGHTING PLAN CIE3-A**
SCALE: 1/4"=1'-0"



**LABORATORY ADDITION
LIGHTING PLAN CIE3-B**
SCALE: 1/4"=1'-0"

Existing Lighting Panel (CHLP-101)

VOLTS/PHASE/WIRE:		PANEL SIZE & TYPE:			MAIN SIZE & TYPE:			CABINET:			
208Y/120V, 3PH, 4W		200A SURFACE			200A MCCC			NEMA TYPE 1			
NO	TRIP	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	TRIP	NO
1	15A	LABORATORY LIGHTS, CRT. #	390			390			LABORATORY OVERCOUNTER REFRIGERATOR	20A	2
3	15A	LABORATORY LIGHTS, CRT. # & LUC LIGHT	440			1080			LABORATORY PERIMETER RECEPTACLES	20A	4
5	15A	LABORATORY PERIMETER RECEPTACLES						1080	LABORATORY PERIMETER RECEPTACLES	20A	6
7	15A	LABORATORY ISLAND RECEPTACLES							LABORATORY ISLAND RECEPTACLES	20A	8
9	15A	LABORATORY ISLAND RECEPTACLES							LABORATORY ISLAND RECEPTACLES	20A	10
11	20A	SCADA OPERATOR CONSOLE No.3			950			1800	STEAM SCRUBBER	20A	12
13	20A	SCADA OPERATOR CONSOLE No.2	1030			200			LABORATORY VACUUM PUMP (SWITCHED)	20A	14
15	20A	SCADA OPERATOR CONSOLE No.1 & CABINET			1000			1500	LABORATORY SAMPLE ROOM INCUBATOR RECEPTACLES	20A	16
17	20A	TELEPHONICABLE SERVICE RECEPTACLE (BASEMENT)			180			1000	LABORATORY SAMPLE ROOM INCUBATOR RECEPTACLES	20A	18
19	20A	LAB SAMPLE ROOM PERIMETER RECEPTACLE	540			380			LABORATORY SAMPLE ROOM PERIMETER RECEPTACLES	20A	20
21	20A	Space						180	LABORATORY ISLAND 200V RECEPTACLES	20A	22
23		Space						180		20A	24
25		Space								20A	26
27		Space								20A	28
29		Space								20A	30
31		Space						680	FUME HOOD No. 1 FANS	20A	32
33		Space						378	FUME HOOD No. 2 LIGHTS/RECEPTACLES	20A	34
35		Space						440	FUME HOOD No. 2 LIGHTS/RECEPTACLES	20A	36
37		Space							SPARE	20A	38
39		Space								20A	40
41		Space								20A	42
SUBTOTAL =						1,980	1,440	1,820	1,398	3,135	8,350
TOTAL CONNECTED A =			3,378								
TOTAL CONNECTED B =			4,578								
TOTAL CONNECTED C =			6,870								
TOTAL PANEL CONNECTED =			14,821								
PANEL AMP'S =			41.2								

- NOTES:
1. LOCATE THE RECEPTACLE WITHIN THE CABINET SYSTEM. COORDINATE THE INSTALLATION OF THE RECEPTACLE WITH THE BUILDING EQUIPMENT TO ENSURE AN INTERFERENCE-FREE INSTALLATION.
 2. DEDICATED LABORATORY VACUUM PUMP RECEPTACLE (SWITCHED). COORDINATE THE LOCATION OF THE RECEPTACLE WITH THE GENERAL MECHANICAL CONTRACTOR AND THE LOCATION OF THE VACUUM PUMP, WHICH MAY BE ANYWHERE WITHIN THE SHOP AND STORAGE ROOMS.
 3. THE RACEWAY/RECEPTACLE SYSTEM FOR THE LABORATORY AND SAMPLE ROOMS SHALL BE NON-INSTALLED TWO CHANNEL RACEWAYS. ALL FITTINGS AND ACCESSORIES SHALL BE COMPLETELY COMPATIBLE AND OF THE SAME MANUFACTURER. THE SYSTEM SHALL BE HUBBELL PW2 WALL TRAY OR EQUAL.

Revision

Date

Revision

Date

Revision

Date

1-30-11

RELEASE FOR BID

9173 CAMPBELL BLVD
ALLIANCE COUNTY, PENNSYLVANIA
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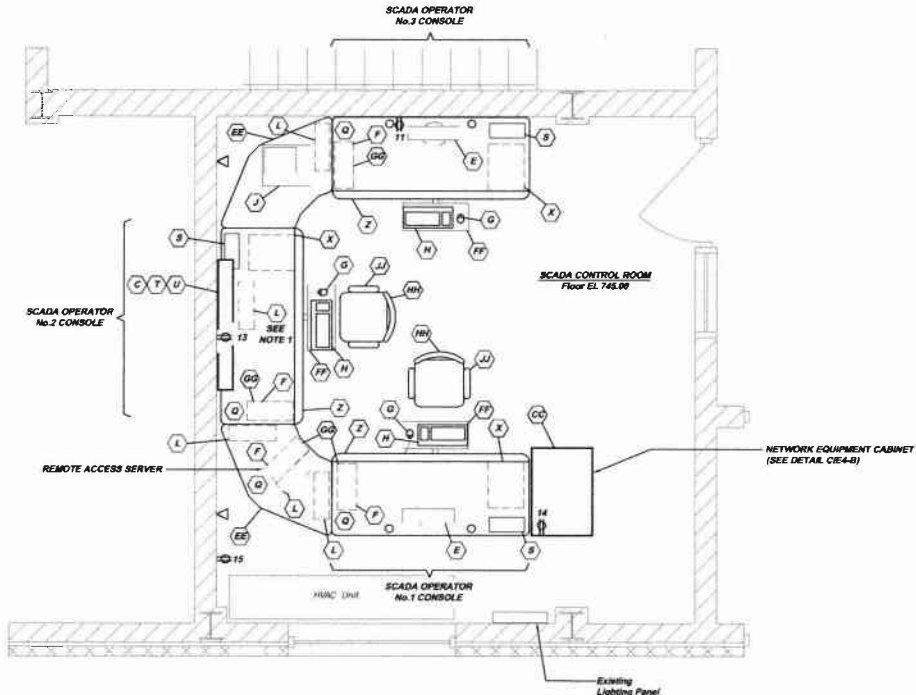
KLEH ENGINEERS, INC.

MUNICIPAL AUTHORITY OF THE CITY OF MCKEESPORT
ALLIANCE COUNTY, PENNSYLVANIA
CONTRACT NUMBER 2010-01 AND 2010-02
WASTEWATER TREATMENT PLANT EXPANSION
LABORATORY ADDITION LIGHTING PLAN AND DETAILS

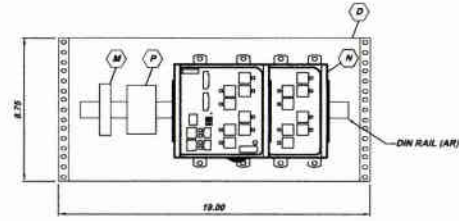
Scale: DEC 2010
Drawn By: MWS
Checked By: MAM
Approved By: BHG

Sheet No. 3

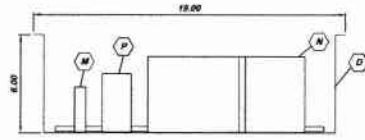
Drawing No. 220-CIE3



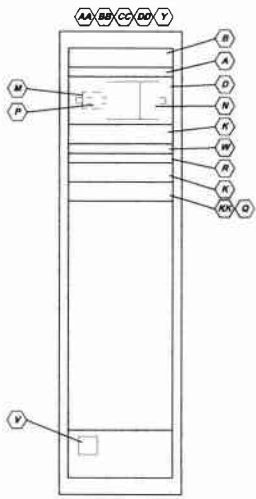
**SCADA CONTROL ROOM LAYOUT
CIE4-A**
SCALE: 1/2" = 1'-0"



**CUSTOM 4U NETWORK
BRACKET LAYOUT CIE4-C**
SCALE: 1/2" = 1'-0"



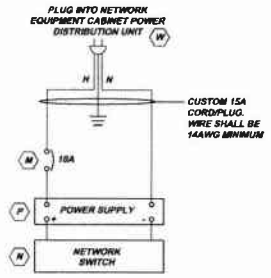
**CUSTOM 4U NETWORK
BRACKET SECTION CIE4-D**
SCALE: 1/2" = 1'-0"



**NETWORK EQUIPMENT CABINET
DETAIL CIE4-B**
NOT TO SCALE

SCADA CONTROL ROOM BILL OF MATERIALS			
MARK	QTY	DESCRIPTION	CATALOG/MODEL/PART No.
(A)	1	24 PORT COPPER PATCH PANEL, BLACK	BELDEN AX103253
(B)	1	FIBER PATCH PANEL, BLACK	BELDEN AX10086 & AX103405
(C)	1	VGA MONITOR CABLE, 20 FEET	BLACK BOX EYVPS05-0020-MM
(D)	1	CUSTOM 4U BRACKET FOR NETWORK SWITCH	CUSTOM (SEE DETAIL CIE2-C)
(E)	2	18" LCD COMPUTER MONITOR	DELL P18093C
(F)	4	TOWER COMPUTER	ALLEN BRADLEY 750R
(G)	3	OPTICAL USB 2.0 MOUSE	DELL MS111
(H)	3	USB 2.0 KEYBOARD	DELL QUIETKEY
(J)	1	COLOR NETWORK LASER JET PRINTER	NEWLETT PACKARD CP1518n
(K)	2	1,000 VA RACKMOUNT UPS	POWER INNOVATIONS Q-RFL-1000
(L)	6	1,000 VA UPS	POWER INNOVATIONS Q-1000 (SEE NOTE 2)
(M)	1	POWER SUPPLY 15A CIRCUIT BREAKER	ROCKWELL AUTOMATION 1488-A1C100
(N)	1	SCADA NETWORK SWITCH	ROCKWELL AUTOMATION 1783-8M310T 1783-8M308F
(P)	1	SCADA NETWORK SWITCH POWER SUPPLY	ROCKWELL AUTOMATION 1806-XLP72E
(Q)	5	KVM INFORMATION MODULE	ROSE ELECTRONICS XTT-80U
(R)	1	KVM SWITCH	ROSE ELECTRONICS XTS-4M803LLU STEENEYS W/RACKMOUNT KIT
(S)	3	KVM USER STATION	ROSE ELECTRONICS XTR-11-v
(T)	1	59" LCD COMPUTER MONITOR	SAMSUNG S2603n
(U)	1	LCD MONITOR WALL BRACKET	SAMSUNG WMN-57700
(V)	1	CAMERA POWER SUPPLY	VICON 328WPS-1
(W)	1	120V, 25A POWER DISTRIBUTION UNIT	WINSTED 94714
(X)	3	13" WIDE PENCIL DRAWER	WINSTED 55238
(Y)	1	38-3/8" VENTED BLANK TOP PANEL	WINSTED 90055
(Z)	3	72" WIDE WORKSTATION DESK	WINSTED E4873
(AA)	1	78-3/4" LOCKING PLEXIGLASS DOOR	WINSTED 90338
(BB)	1	78-3/4" LOCKING SOLID DOOR	WINSTED 90318
(CC)	1	78-3/4" NETWORK EQUIPMENT CABINET 45U	WINSTED 90038
(DD)	1	78-3/4" X 38-3/8" SIDE PANEL (PAIR)	WINSTED 90138
(EE)	2	90 DEGREE WORKSTATION CORNER	WINSTED E4882
(FF)	3	ADJUSTABLE KEYBOARD SHELF	WINSTED 47084
(GG)	4	SWIVEL CPU MOUNT	WINSTED 48258
(HH)	2	347 SECURITY PILOT CHAIR	WINSTED 11730
(JJ)	2	OPTIONAL SCOOP ARMS - SET OF TWO	WINSTED 11768
(KK)	1	DIGITAL NETWORK VIDEO RECORDER	VICON VN-NVR-2000V5-R

SEE SPECIFICATION SECTION 16830 FOR COMPLETE COMPUTER WORKSTATION REQUIREMENTS
 SEE SPECIFICATION SECTION 16890 FOR COMPLETE LCD MONITOR REQUIREMENTS
 SEE SPECIFICATION SECTION 16810 FOR COMPLETE NETWORK VIDEO RECORDER REQUIREMENTS



**SCADA NETWORK SWITCH
POWER SUPPLY SCHEMATIC CIE4-E**
NOT TO SCALE

- NOTES:**
- UPS DEDICATED TO THE 59" MONITOR.
 - LOCATE ONE UPS AND CABLE MODERN IN BASEMENT. SEE DRAWING 220-CIE1.
 - THE CONTRACTOR SHALL PROVIDE ALL NETWORK WIRING AS SHOWN ON THE SCADA COMMUNICATIONS & VIDEO SURVEILLANCE OVERVIEW DIAGRAM, DRAWING 220-551B. ALL WIRING BETWEEN THE SCADA OPERATOR CONSOLES AND THE NETWORK EQUIPMENT CABINET SHALL BE ROUTED IN PROPERLY SIZED WIRING DUCT. THE DUCT SHALL BE FIBRODUT TYPE PL, FLEXIBLE DUCT, SECURED WITH SCREWS. SELF-ADHESIVE ATTACHMENT IS NOT ACCEPTABLE.

KLH ENGINEERS, INC.

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**MUNICIPAL AUTHORITY OF THE CITY OF MCKEESPORT
ALLEGHENY COUNTY, PENNSYLVANIA
CONTRACT NUMBER 2010-01 AND 2010-02
WASTEWATER TREATMENT PLANT EXPANSION
SCADA CONTROL ROOM PLAN AND DETAILS**

Scale:	As Shown
Date:	DEC. 2010
Drawn By:	DOV
Checked By:	MLM
Approved By:	BMS

Sheet No. **4**

Drawing No. **220-CIE4**

FUME HOOD No. 1 EXHAUST/SUPPLY FANS CONTROL PANEL (CI-CP-101) BILL OF MATERIALS				
ITEM QTY	DESCRIPTION	PRODUCT NUMBER	MANUFACTURER	
1	1	16"x12"x6" ENCLOSURE, NEMA TYPE 4X	A16H1206SSLP	HOFFMAN
2	1	13"x9" ENCLOSURE SUBPANEL	A16P12SS6	HOFFMAN
3	AR	DIN RAIL	1492-DR7	ALLEN-BRADLEY
4	1	GROUNDING LUG	-	-
5	AR	600V AC/DC 30A TERMINAL BLOCK	1492-HM1	ALLEN-BRADLEY
6	1	120V, BPOI CONTROL RELAY	700-HF32A1	ALLEN-BRADLEY
7	1	CONTROL RELAY SOCKET	700-HM116	ALLEN-BRADLEY

Revisions	Date
1	1-2011

5175 DANFELLS BLVD. ROAD
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 FAX: 480-966-2589
 WWW.KLHENGINEERS.COM

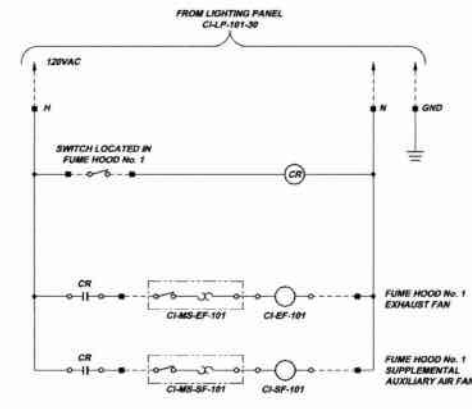
KLH ENGINEERS, INC.

MUNICIPAL AUTHORITY OF THE CITY OF MCKEESPORT
 ALLEGHENY COUNTY, PENNSYLVANIA
 CONTRACT NUMBER 2010-01 AND 2010-02
 WASTEWATER TREATMENT PLANT EXPANSION
 FUME HOOD No. 1 EXHAUST/SUPPLY FANS CONTROL PANEL (CI-CP-101) LAYOUT

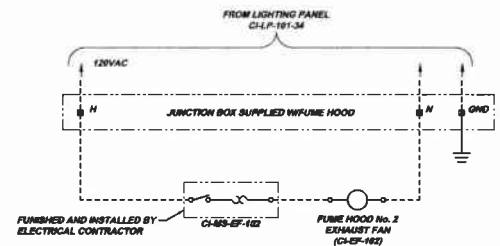
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Date:	DEC. 2010
Drawn By:	DCY
Checked By:	MJM
Approved By:	SND

Sheet No.
5

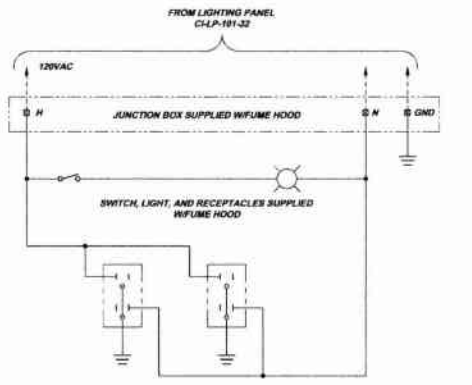
Drawing No.
220-CIE5



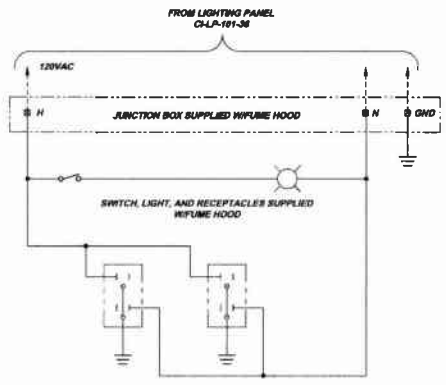
**FUME HOOD No. 1
EXHAUST/SUPPLY FANS CONTROL PANEL (CI-CP-101)
ELECTRICAL SCHEMATIC CIE5-A**
NOT TO SCALE



**FUME HOOD No. 2
ELECTRICAL SCHEMATIC CIE5-B**
NOT TO SCALE



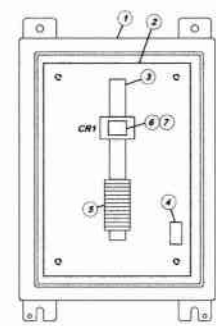
**FUME HOOD No. 1
ELECTRICAL SCHEMATIC CIE5-C**
NOT TO SCALE



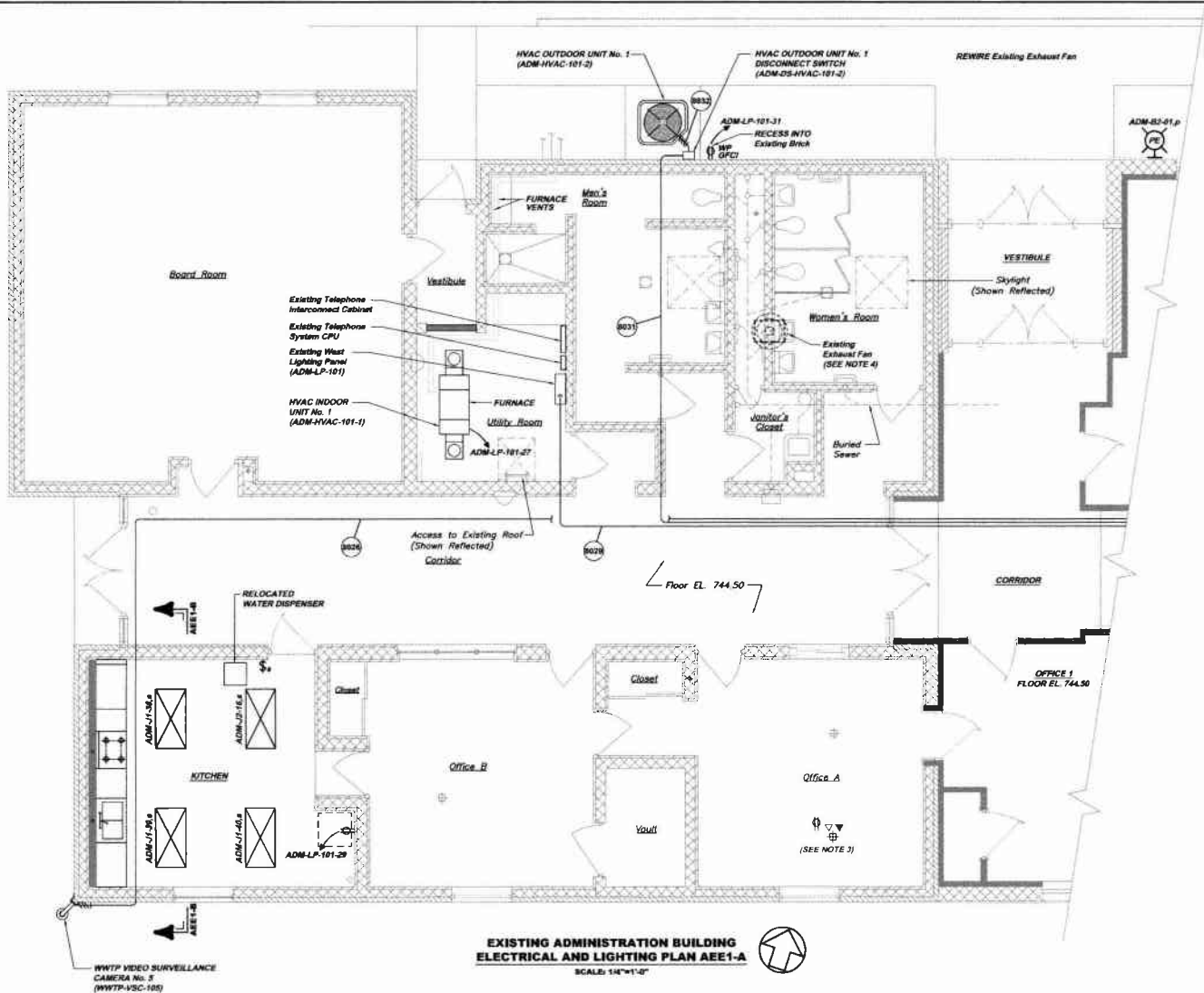
**FUME HOOD No. 2
ELECTRICAL SCHEMATIC CIE5-D**
NOT TO SCALE

SCHEMATICS SYMBOL LEGEND

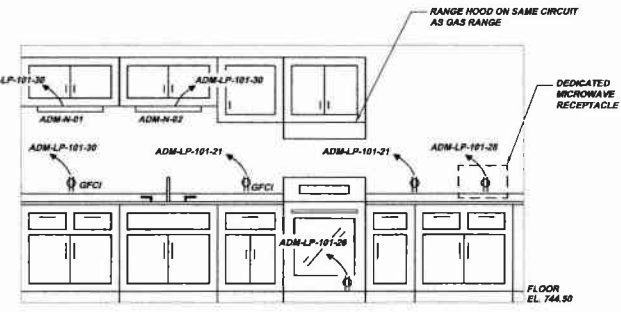
■	TERMINAL LOCATED IN CONTROL PANEL (CI-CP-101)
□	TERMINAL LOCATED IN JUNCTION BOX
—	LOCAL WIRING
---	FIELD WIRING



**FUME HOOD No. 1
EXHAUST/SUPPLY FANS CONTROL PANEL (CI-CP-101)
INTERIOR LAYOUT CIE5-E**
SCALE: 3" = 1'-0"



EXISTING ADMINISTRATION BUILDING ELECTRICAL AND LIGHTING PLAN AEE1-A
SCALE: 1/4"=1'-0"



PROPOSED KITCHEN SECTION AEE1-B
SCALE: 1/2"=1'-0"

Existing West Lighting Panel (ADM-LP-101)

NO	TRIP	DESCRIPTION	PANEL SIZE & TYPE			MAIN SIZE & TYPE			CABINET			DESCRIPTION	TRIP	NO
			225A	SURFACE		225A	MCCB							
1	20A	Restrooms, Jan. Clo. Fire Tan. and Mail Lights	-	-	-	-	-	-	-	-	-	Meeting Room Lights	20A	2
3	20A	Utility Room, Vest. and Outside Lights	-	-	-	-	-	-	-	-	-	Meeting Room Recessed Lights	20A	4
5	20A	North and East Outside Lights	-	-	-	-	-	-	-	-	-	South Outside Lights	20A	6
7	20A	Corridor Lights	-	-	-	-	-	-	-	-	-	Plant Super. Office Lights	20A	8
9	20A	Plant Super. Office Receptacles	-	-	-	-	-	-	-	-	-	Center Office Lights	20A	10
11	20A	Center Office Receptacles	-	-	-	-	-	-	-	-	-	Managers Office Lights	20A	12
13	20A	Managers Office Receptacles	-	-	-	-	-	-	-	-	-	Corridor Receptacles	20A	14
15	20A	Meeting Room and Outside Receptacles	-	-	-	-	-	-	-	-	-	Hood Fan and Lights Utility Room Receptacles	20A	16
17	20A	Telephone System	-	-	-	-	-	-	-	-	-	Water Cooler	20A	18
19	20A	Restrooms and Jan. Clo. Exhaust Fans	-	-	-	-	-	-	-	-	-	Restrooms and Jan. Clo. Exhaust Fans	20A	20
21	20A	KITCHEN COUNTER	-	-	-	-	-	-	-	-	-	Spare	20A	22
23	20A	Men's Restroom Heater	-	-	-	-	-	-	-	-	-	Women's Restroom Heater	20A	24
25	20A	Utility Room Heater	-	-	-	-	-	-	-	-	-	GAS RANGE AND HOOD	20A	26
27	20A	HVAC INDOOR UNIT No. 1	-	-	-	-	-	-	-	-	-	KITCHEN MICROWAVE	20A	28
29	20A	KITCHEN REFRIGERATOR	-	-	-	-	-	-	-	-	-	KITCHEN UNDER CABINET LIGHTS AND COUNTER RECEPT.	20A	30
31	20A	HVAC OUTDOOR UNIT No. 1	-	-	-	-	-	-	-	-	-	SPARE	20A	32
33	20A	SPARE	-	-	-	-	-	-	-	-	-	SPARE	20A	34
35	20A	SPARE	-	-	-	-	-	-	-	-	-	SPARE	20A	36

EAST LIGHTING PANEL (ADM-LP-102)

NO	TRIP	DESCRIPTION	PANEL SIZE & TYPE			MAIN SIZE & TYPE			CABINET			DESCRIPTION	TRIP	NO
			225A	SURFACE		200A	MCCB							
1	20A	HVAC INDOOR UNIT No. 2	1778	-	-	1212	-	-	-	-	-	HVAC INDOOR UNIT No. 2	20A	2
3	20A	NORTH ENTRY VESTIBULE HEATER	1280	-	-	2000	-	-	-	-	-	MULTIPURPOSE ROOM ENTRY VESTIBULE HEATER	20A	4
5	20A	FOUNTAIN RECEPTACLE	-	-	-	700	-	-	-	-	-	HOT WATER HEATER	20A	6
7	20A	CORRIDOR, OFFICE 3, OFFICE 4 & OFFICE 5 LIGHTS	1330	-	-	1600	-	-	-	-	-	OFFICE 1, OFFICE 2, OFFICE 3 AND MULTIPURPOSE ROOM LIGHTS	20A	8
9	20A	MECHANICAL ROOM & UNISEX BATHROOM LIGHTS	1190	-	-	1415	-	-	-	-	-	OFFICE 1, OFFICE 2, OFFICE 3 AND MULTIPURPOSE ROOM LIGHTS	20A	10
11	20A	CORRIDOR AND OFFICE 1 RECEPTACLES	-	-	-	1800	-	-	-	-	-	OFFICE 3 & VESTIBULE RECEPTACLES	20A	12
13	20A	OFFICE 4 RECEPTACLES	1000	-	-	1440	-	-	-	-	-	OFFICE 3 & MECHANICAL ROOM RECEPTACLES	20A	14
15	20A	UNISEX BATHROOMS RECEPTACLES	360	-	-	1000	-	-	-	-	-	OFFICE 2 AND WALK IN CLOSET RECEPTACLES	20A	16
17	20A	MULTIPURPOSE ROOM RECEPTACLES	-	-	-	1800	-	-	-	-	-	EXTERIOR AND VESTIBULE LIGHTS	20A	18
19	20A	EXTERIOR RECEPTACLES	800	-	-	800	-	-	-	-	-	ATTIC FAN No. 1	20A	20
21	20A	ATTIC FAN No. 2	800	-	-	-	-	-	-	-	-	SPARE	20A	22
23	20A	SPARE	-	-	-	-	-	-	-	-	-	SPARE	20A	24
25	20A	SPARE	-	-	-	-	-	-	-	-	-	SPARE	20A	26
27	20A	SPARE	-	-	-	-	-	-	-	-	-	SPARE	20A	28
29	20A	SPARE	-	-	-	-	-	-	-	-	-	SPARE	20A	30
31	20A	SPARE	-	-	-	-	-	-	-	-	-	SPARE	20A	32
33	20A	SPARE	-	-	-	-	-	-	-	-	-	SPARE	20A	34
35	20A	SPARE	-	-	-	-	-	-	-	-	-	SPARE	20A	36
37	20A	SPARE	-	-	-	-	-	-	-	-	-	SPARE	20A	38
39	20A	SPARE	-	-	-	-	-	-	-	-	-	SPD	20A	40
41	20A	SPARE	-	-	-	-	-	-	-	-	-	SPD	20A	42
SUBTOTAL =			5,084	3,308	4,300	4,652	4,998	3,110						
TOTAL CONNECTED A =			5,746											
TOTAL CONNECTED B =			4,303											
TOTAL CONNECTED C =			7,410											
TOTAL PANELS CONNECTED =			25,489											
PANEL AMPS =			78.6											
									INTERNAL 3P-4W SPD CATEGORY A					

NOTES:

- THE CONTRACTOR SHALL INSTALL ALL NEW TELEPHONE CIRCUITS FROM EACH RECEPTACLE TO THE UTILITY ROOM. EACH CIRCUIT SHALL CONSIST OF 2-4PR CAT 6 CABLES (ONE ACTIVE AND ONE SPARE). INSIDE OFFICE "B". CON. AT LEAST TEN FEET OF CABLE. THE OWNER WILL COORDINATE THE INTEGRATION OF ALL NEW CIRCUITS INTO THE TELEPHONE SYSTEM.
- THE CONTRACTOR SHALL INSTALL ALL NEW DATA CIRCUITS FROM EACH RECEPTACLE TO THE DESIGNATED DATA AREA IN OFFICE "B". EACH CIRCUIT SHALL CONSIST OF 2-4PR CAT 6 CABLES (ONE ACTIVE AND ONE SPARE). INSIDE OFFICE "B". CON. AT LEAST TEN FEET OF CABLE. THE OWNER WILL COORDINATE THE INSTALLATION OF A DATA NETWORK SYSTEM.
- THE CONTRACTOR SHALL FURNISH AND INSTALL A TWO COMPARTMENT POWER AND COMMUNICATIONS POLE FOR OFFICE "A". THE POLE SHALL BE MANUFACTURED OF SATW ANODIZED ALUMINUM WITH THE REQUIRED POWER, DATA AND COMMUNICATIONS RECEPTACLES AS SHOWN ON THE DRAWINGS. THE POLE SHALL BE A LEGRAND WIREMOLD AMDTP SERIES OR EQUAL. EXACT LOCATION TO BE COORDINATED WITH THE OWNER.
- THE EXISTING EXHAUST FAN SHALL BE REMOVED AND REPLACED WITH A NEW FAN IN THE NEW ROOF. THE ELECTRICAL CONTRACTOR SHALL SUPPORT THE REMOVAL AND SUBSEQUENT REPLACEMENT. THE EXISTING BRANCH CIRCUIT SHALL BE RE-USED. EXTEND THE EXISTING WIRING AND CONDUIT SYSTEM IN KIND AS NECESSARY.

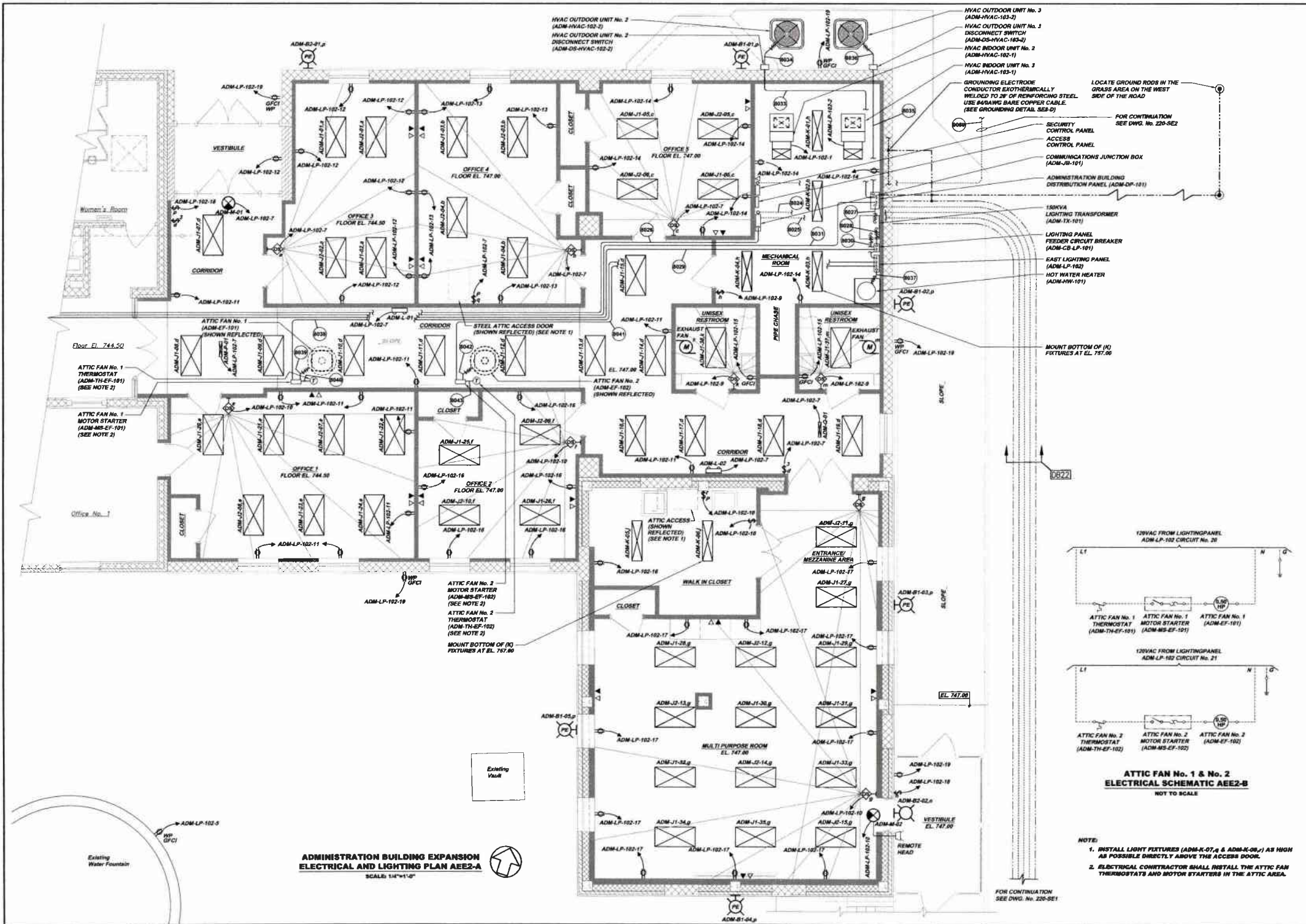
KLH ENGINEERS, INC.

MUNICIPAL AUTHORITY OF THE CITY OF MCHESPORT
ALLEGHENY COUNTY, PENNSYLVANIA
WASTEWATER TREATMENT PLANT EXPANSION
EXISTING ADMINISTRATION BUILDING ELECTRICAL AND LIGHTING PLAN

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Scale: As Shown
Date: DEC. 2010
Drawn By: DJW
Checked By: MJB
Approved By: BJC

Sheet No. 1
Drawing No. 220-AEE1



Revision	Date	By
1-2011	12-2011	KLH
2		

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KLH ENGINEERS, INC.
 MUNICIPAL AUTHORITY OF THE CITY OF MCKEESPORT
 ALLEGANY COUNTY, PENNSYLVANIA
 WASTEWATER TREATMENT PLANT EXPANSION
 ADMINISTRATION BUILDING EXPANSION ELECTRICAL AND LIGHTING PLAN

As Shown	DEC. 2010	DOB	MSJ	GHG
Drawn By:				
Checked By:				
Approved By:				

Drawing No. **220-AEE2**
 Sheet No. **2**