

**EASEMENTS**

- 1) ALABAMA POWER COMPANY - AS SHOWN  
BOOK 9411, PAGE 9733
  - 2) 12' EASEMENT - AS SHOWN  
MAP BOOK 179, PAGE 41
  - 3) RECIPROCAL EASEMENT AGREEMENT \*\*  
REAL VOLUME 3234, PAGE 244  
REAL VOLUME 3315, PAGE 883  
REAL VOLUME 3714, PAGE 497
  - 4) BLANKET EASEMENT \*\*  
INSTRUMENT NO 9410, PAGE 9907
- \*\* APPLICABLE EASEMENTS WHICH CANNOT BE GRAPHICALLY ILLUSTRATED ON THIS DRAWING.

LOT 1A, ACCORDING TO THE CAMPO ELECTRONICS RESURVEY AS RECORDED IN MAP BOOK 179, PAGE 41.  
ALL SITUATED IN THE NORTHEAST QUARTER OF SECTION 27, TOWNSHIP 17 SOUTH, RANGE 2 WEST JEFFERSON COUNTY, ALABAMA

I HEREBY CERTIFY TO KOC INVESTORS, L.L.C., BANCORPSOUTH BANK, THE TITLE GROUP, INC., AND STEWART TITLE COMPANY THAT ALL PARTS OF THIS SURVEY AND DRAWING HAVE BEEN COMPLETED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE STANDARDS FOR THE PRACTICE FOR SURVEYING IN THE STATE OF ALABAMA TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF.

SURVEYOR'S SIGNATURE: *Philip W. Dence*  
ALABAMA LICENSE NO: 21168 DATE: *September 19, 2002*



**EXISTING SITE PLAN**

**NEEL-SCHAFFER, INC.**  
ENGINEERS \* PLANNERS  
5004 Fifth Avenue South TEL. (205) 591-3800  
Birmingham, Alabama 35212 FAX (205) 592-8362

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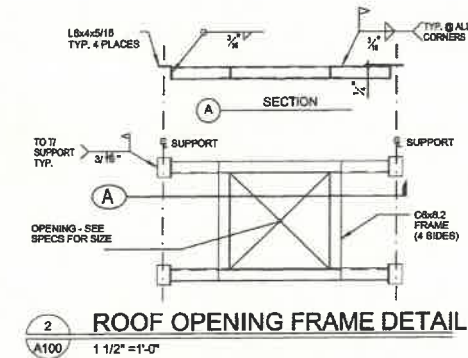
SEAL

REVISIONS			REVISIONS		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

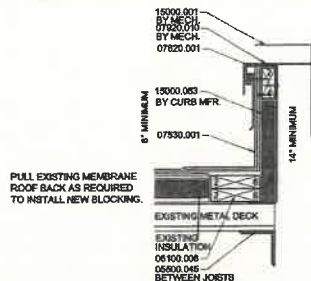
**FORMER CAMPO RETAIL STORE**  
FESTIVAL CENTER - B'HAM, AL  
**EXISTING SITE PLAN**

DATE:	SEPT 2002
DRAWN BY:	WSB
CHECKED BY:	KWG
SURVEYED:	AUG 2002
N-S P.O.:	
FILE NAME:	
CADD TYPE:	AUTOCAD
SHEET	1 OF 1

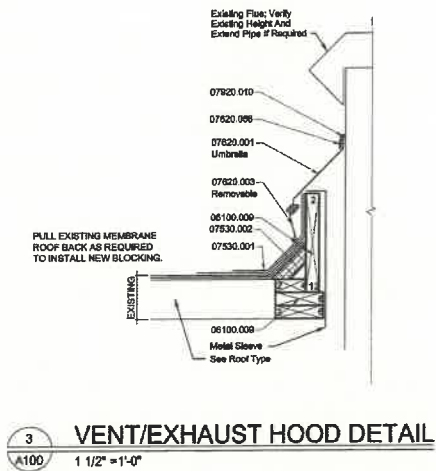
Addendum #1



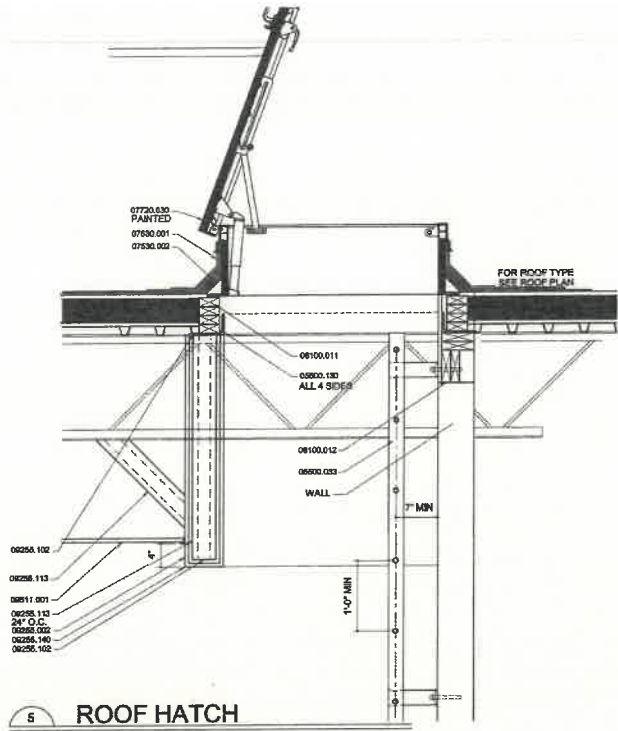
2 ROOF OPENING FRAME DETAIL  
A100 1 1/2" = 1'-0"



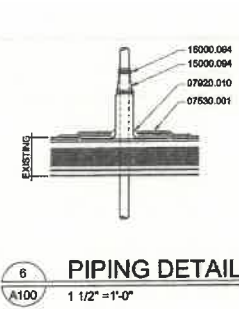
4 RTU CURB DETAIL  
A100 1 1/2" = 1'-0"



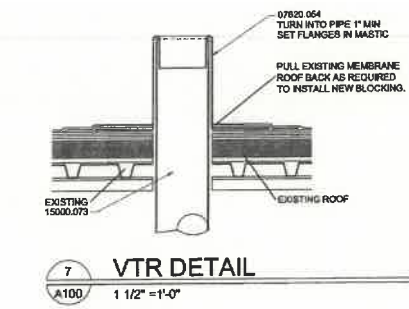
3 VENT/EXHAUST HOOD DETAIL  
A100 1 1/2" = 1'-0"



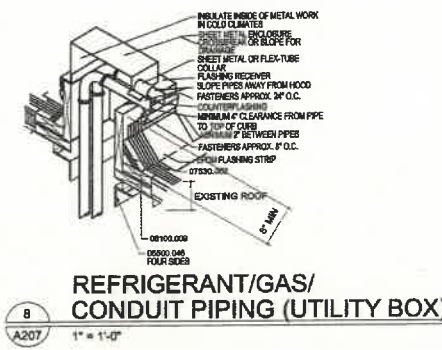
5 ROOF HATCH  
A100 1" = 1'-0"



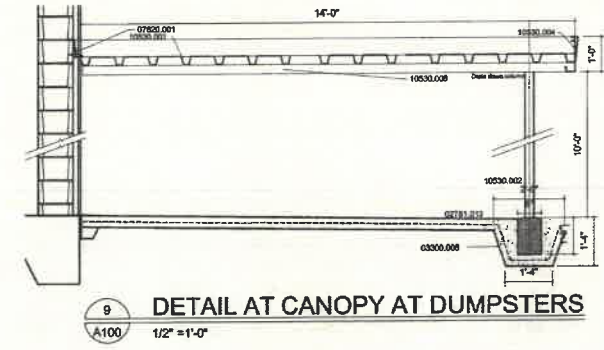
6 PIPING DETAIL  
A100 1 1/2" = 1'-0"



7 VTR DETAIL  
A100 1 1/2" = 1'-0"

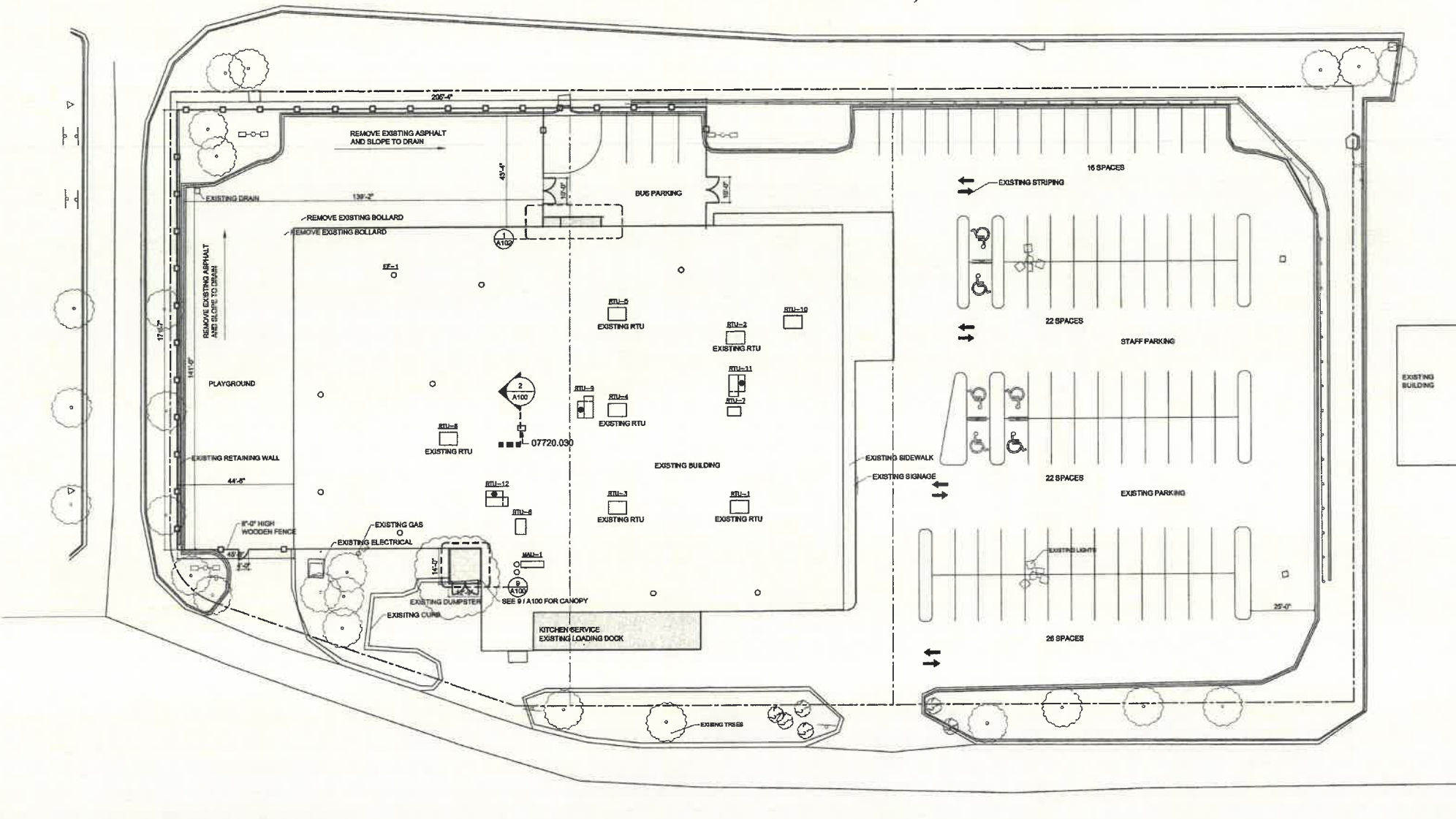


8 REFRIGERANT/GAS/ CONDUIT PIPING (UTILITY BOX)  
A207 1" = 1'-0"



9 DETAIL AT CANOPY AT DUMPSTERS  
A100 1/2" = 1'-0"

CRESTWOOD BLVD. (U.S. HIGHWAY No. 78)



1 SITE PLAN/ROOF PLAN  
A100 1" = 20'-0"

**Material Keynote Legend**

**DIVISION 02 - SITE CONSTRUCTION**  
02781.013 4" Concrete Walk

**DIVISION 03 - CONCRETE**  
03300.008 Concrete footing

**DIVISION 05 - METALS**  
05500.018 Fasteners at 0' O.C.  
05500.019 Metal Screws  
05500.023 Steel Ladder  
05500.045 L-Anchor  
05900.048 L3x3x3/8  
05500.130 L3x4x3/8

**DIVISION 06 - WOOD AND PLASTICS**  
06100.008 Treated 2x6  
06100.009 Treated Wood Blocking  
06100.011 2x4  
06100.012 2x8

**DIVISION 07 - THERMAL AND MOISTURE PROTECTION**  
07300.001 Epslite Flashing  
07300.002 Fiber Cement  
07820.001 SBS Modified Bitumen Roof  
07820.002 SBS Modified Bitumen Flashing  
07820.003 Fiber Cement  
07820.004 Metal Flashing  
07820.003 Counter Flashing  
07820.014 Sheet Metal Cleave  
07820.004 Lead Flashing  
07820.005 Waterproof Metal Umbrella  
07820.008 Metal Draw Band  
07720.030 Roof Hatch  
07820.010 Sealant

**DIVISION 09 - FINISHES**  
02258.002 Gypsum Board Ceiling  
02258.012 5/8" Gypsum Board  
02258.102 Metal Track To Match Stud Width  
02258.113 3-5/8" Metal Studs  
02258.132 1-1/2" Furring Channel  
02258.140 Corner Bead  
06611.001 Acoustical Lay-In Ceiling

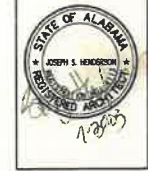
**DIVISION 10 - SPECIALTIES**  
10530.001 Aluminum Canopy  
10530.002 Aluminum Column  
10530.004 Aluminum Frieze  
10530.008 Aluminum Beam

**DIVISION 15 - MECHANICAL**  
15000.001 Mechanical Equipment  
18000.072 Vent Stack  
15000.073 Plumbing Vent  
15000.083 Roof Curb  
15000.094 Pipe Seal

**JOHNSON BAILEY HENDERSON MCNEEL**  
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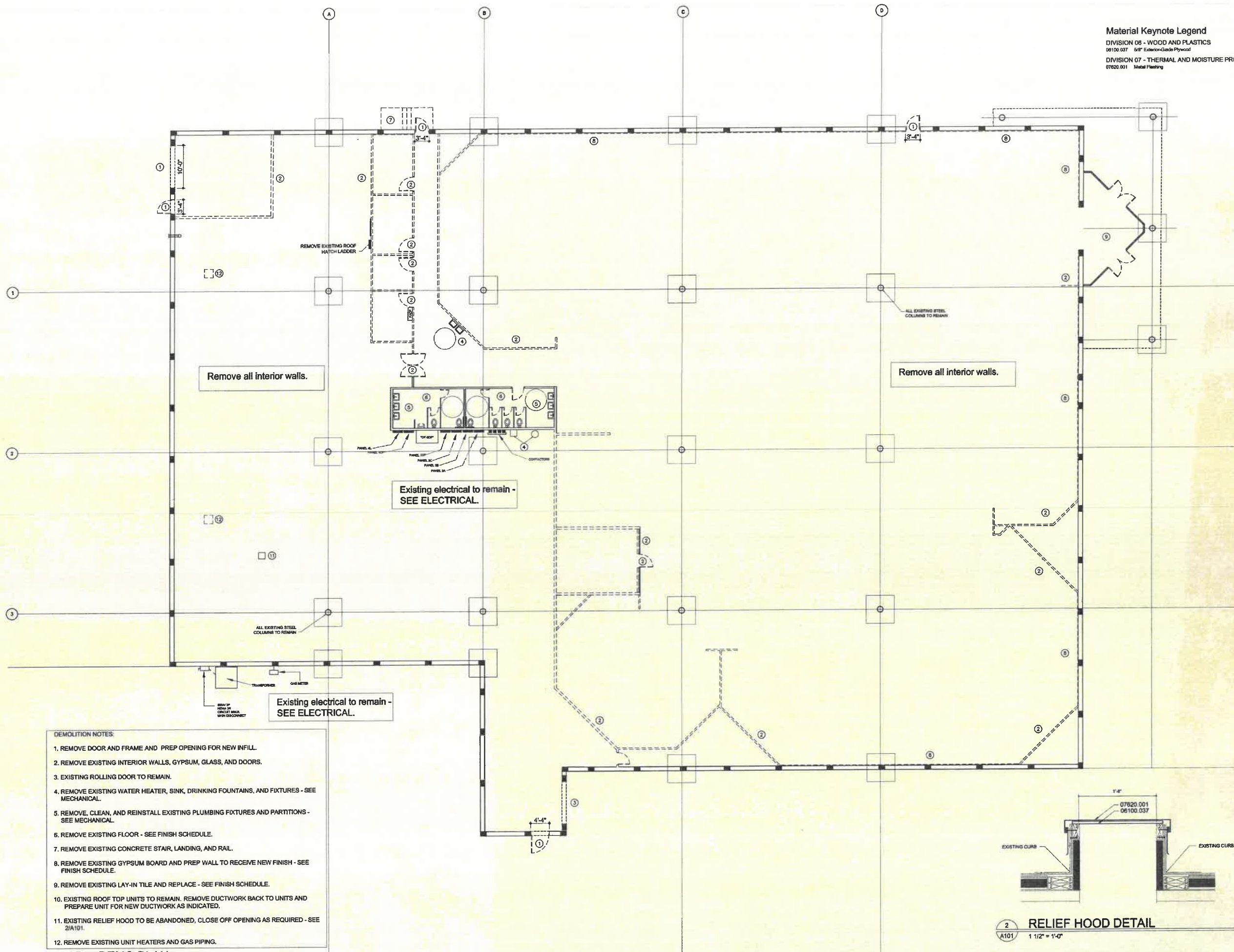
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**KQC PROPERTIES**  
HEAD START PROGRAM  
BIRMINGHAM, ALABAMA



Job Number  
02106  
Date  
DECEMBER 2002  
Revisions  
JULY 28, 2003  
Addendum #5  
Checked By Drawn By  
TAZ MA4

Sheet  
**A100**  
SITE PLAN



**Material Keynote Legend**  
 DIVISION 06 - WOOD AND PLASTICS  
 06100.037 5/8" Exterior-Grade Plywood  
 DIVISION 07 - THERMAL AND MOISTURE PROTECTION  
 07620.001 Metal Flashing

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**KQC PROPERTIES**  
 HEAD START PROGRAM  
 BIRMINGHAM, ALABAMA



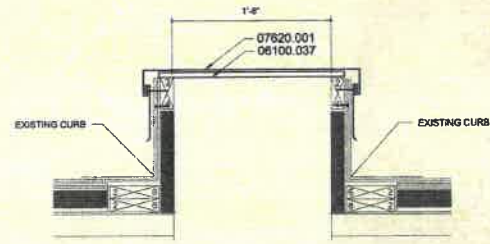
Job Number  
 02106  
 Date  
 DECEMBER 2002  
 Revisions

Checked By  
 TAZ  
 Drawn By  
 MA4

Sheet  
**A101**  
 DEMO PLAN

- DEMOLITION NOTES:**
1. REMOVE DOOR AND FRAME AND PREP OPENING FOR NEW INFILL.
  2. REMOVE EXISTING INTERIOR WALLS, GYPSUM, GLASS, AND DOORS.
  3. EXISTING ROLLING DOOR TO REMAIN.
  4. REMOVE EXISTING WATER HEATER, SINK, DRINKING FOUNTAINS, AND FIXTURES - SEE MECHANICAL.
  5. REMOVE, CLEAN, AND REINSTALL EXISTING PLUMBING FIXTURES AND PARTITIONS - SEE MECHANICAL.
  6. REMOVE EXISTING FLOOR - SEE FINISH SCHEDULE.
  7. REMOVE EXISTING CONCRETE STAIR, LANDING, AND RAIL.
  8. REMOVE EXISTING GYPSUM BOARD AND PREP WALL TO RECEIVE NEW FINISH - SEE FINISH SCHEDULE.
  9. REMOVE EXISTING LAY-IN TILE AND REPLACE - SEE FINISH SCHEDULE.
  10. EXISTING ROOF TOP UNITS TO REMAIN. REMOVE DUCTWORK BACK TO UNITS AND PREPARE UNIT FOR NEW DUCTWORK AS INDICATED.
  11. EXISTING RELIEF HOOD TO BE ABANDONED, CLOSE OFF OPENING AS REQUIRED - SEE 2/A101.
  12. REMOVE EXISTING UNIT HEATERS AND GAS PIPING.

**1 DEMO PLAN**  
 1/8" = 1'-0"



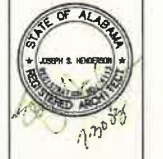
**2 RELIEF HOOD DETAIL**  
 1 1/2" = 1'-0"

Material Keynote Legend  
 DIVISION 02 - SITE CONSTRUCTION  
 02751.006 Concrete Carb  
 DIVISION 10 - SPECIALTIES  
 10520.004 Semi-Flushed Cabinet With Fine Edging/liner



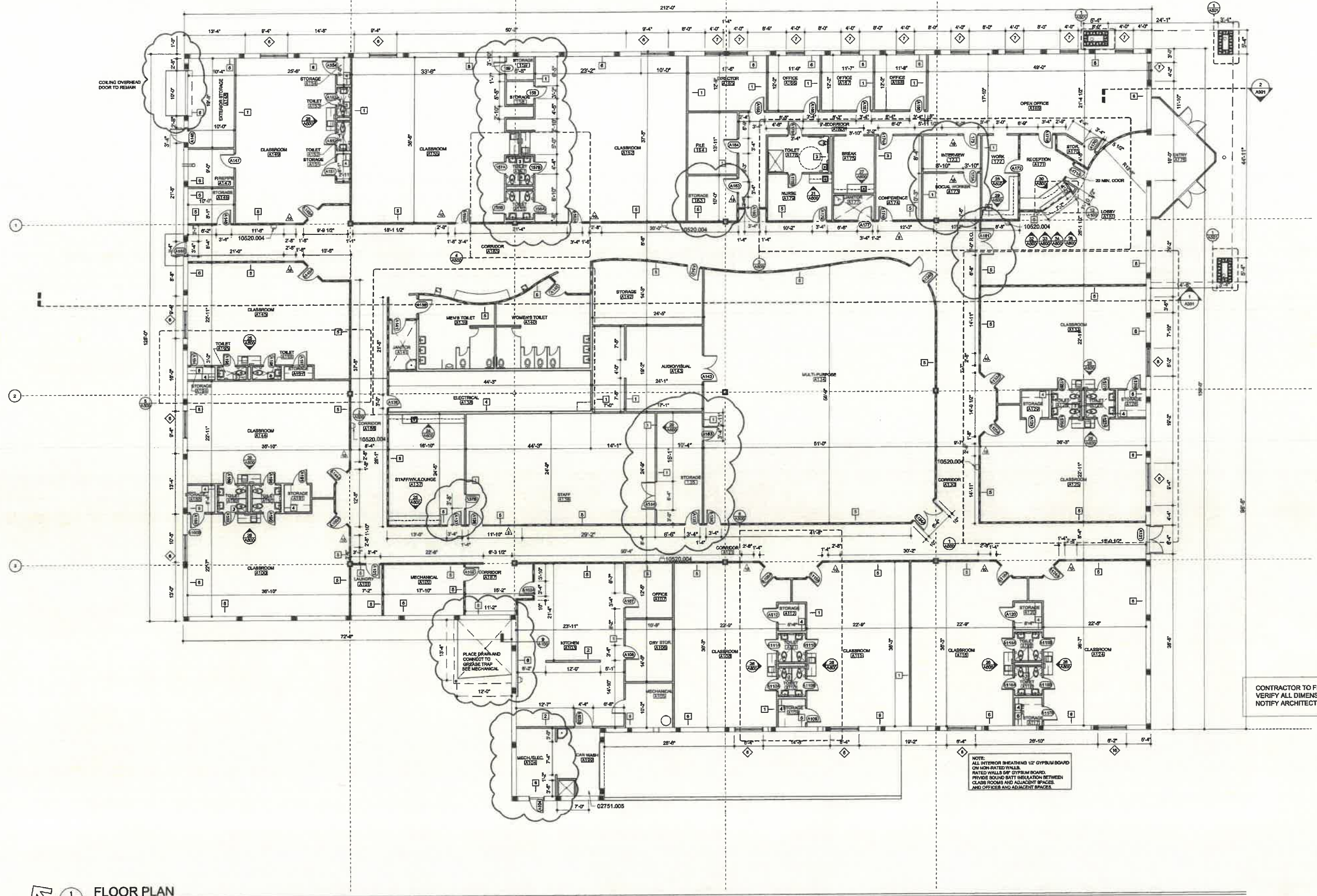
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 □ Tupelo, MS • 662-844-1822

**KQC PROPERTIES**  
 HEAD START PROGRAM  
 BIRMINGHAM, ALABAMA



Job Number  
 02108  
 Date  
 DECEMBER 2002  
 Revisions  
 JULY 28, 2003  
 Addendum #5  
 Checked By Drawn By  
 TAZ MAA

Sheet  
**A200**  
 FLOORPLAN

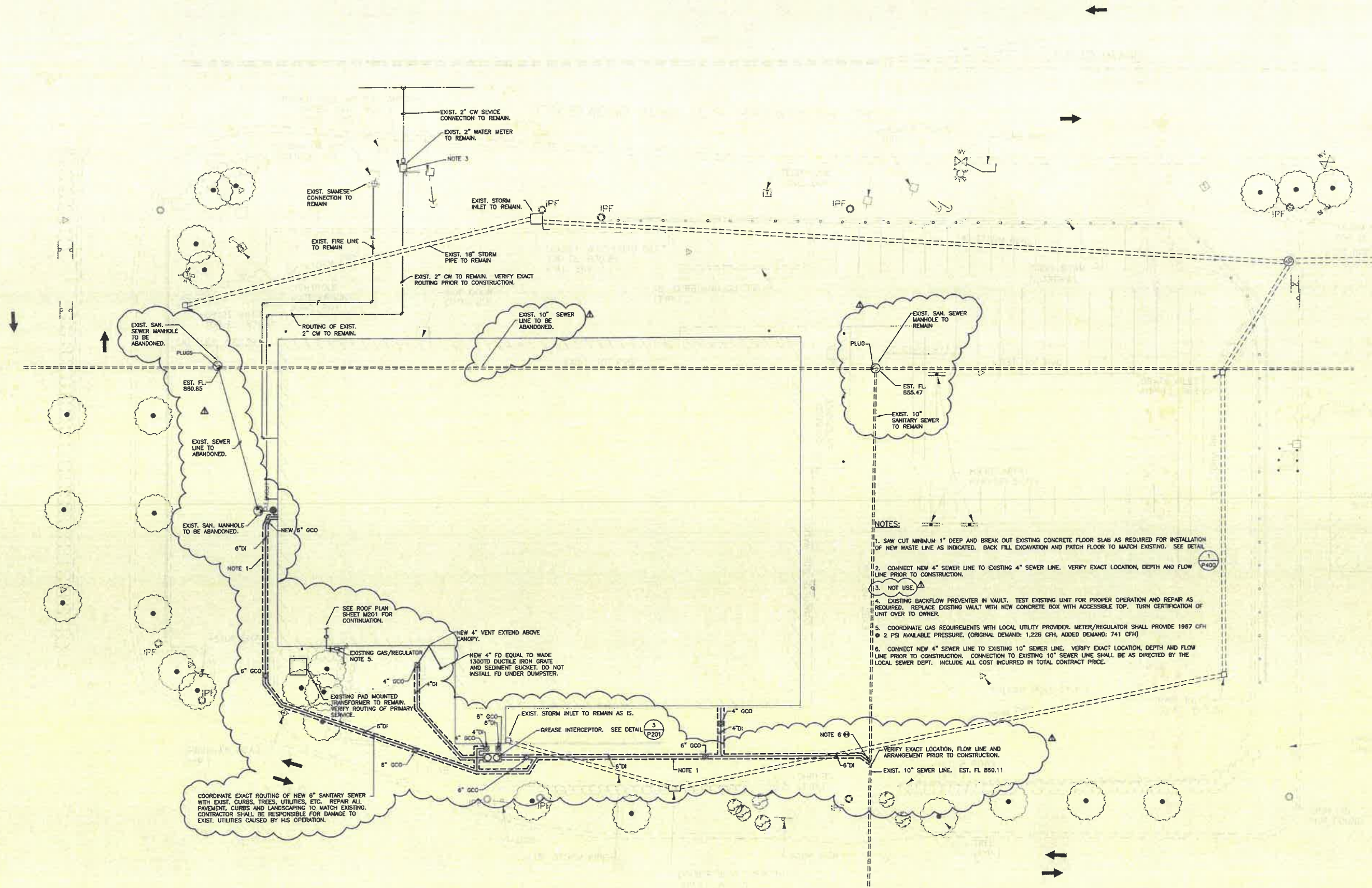


CONTRACTOR TO FIELD  
 VERIFY ALL DIMENSIONS.  
 NOTIFY ARCHITECT IF DIFFERENT.

NOTE:  
 ALL INTERIOR SHEATHING 1/2" GYPSUM BOARD  
 ON NON-RATED WALLS.  
 RATED WALLS 5/8" GYPSUM BOARD.  
 PROVIDE SOUND BATT INSULATION BETWEEN  
 CLASS ROOMS AND ADJACENT SPACES  
 AND OFFICES AND ADJACENT SPACES.

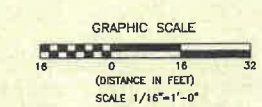
**FLOOR PLAN**  
 1/8" = 1'-0"





- NOTES:
1. SAW CUT MINIMUM 1" DEEP AND BREAK OUT EXISTING CONCRETE FLOOR SLAB AS REQUIRED FOR INSTALLATION OF NEW WASTE LINE AS INDICATED. BACK FILL EXCAVATION AND PATCH FLOOR TO MATCH EXISTING. SEE DETAIL (P400)
  2. CONNECT NEW 4" SEWER LINE TO EXISTING 4" SEWER LINE. VERIFY EXACT LOCATION, DEPTH AND FLOW LINE PRIOR TO CONSTRUCTION.
  3. NOT USE.
  4. EXISTING BACKFLOW PREVENTER IN VAULT. TEST EXISTING UNIT FOR PROPER OPERATION AND REPAIR AS REQUIRED. REPLACE EXISTING VAULT WITH NEW CONCRETE BOX WITH ACCESSIBLE TOP. TURN CERTIFICATION OF UNIT OVER TO OWNER.
  5. COORDINATE GAS REQUIREMENTS WITH LOCAL UTILITY PROVIDER. METER/REGULATOR SHALL PROVIDE 1967 CFH @ 2 PSI AVAILABLE PRESSURE. (ORIGINAL DEMAND: 1,226 CFH, ADDED DEMAND: 741 CFH)
  6. CONNECT NEW 4" SEWER LINE TO EXISTING 10" SEWER LINE. VERIFY EXACT LOCATION, DEPTH AND FLOW LINE PRIOR TO CONSTRUCTION. CONNECTION TO EXISTING 10" SEWER LINE SHALL BE AS DIRECTED BY THE LOCAL SEWER DEPT. INCLUDE ALL COST INCURRED IN TOTAL CONTRACT PRICE.

UTILITY SITE PLAN  
 1/16" = 1'-0"



BOOK NO. 02672000  
 ELLERS, OAKLEY,  
 CHESTER & RIKE, INC.  
 CONSULTING ENGINEERS  
 5100 POPPARD AVENUE • SUITE 1000  
 MEMPHIS, TN 38117 • (901) 855-2800

Job Number  
 02106  
 Date  
 APRIL 2003  
 Revisions  
 ADDENDUM NO. 5 4/6/03  
 10/15/03

Checked By  
 SB  
 Drawn By  
 TS

Sheet  
**MPE**  
 UTILITY SITE PLAN

BIRMINGHAM KOC  
 HEAD START  
 BIRMINGHAM, ALABAMA

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 □ Tupelo, MS • 662-544-1822



**NOTES:**

- UP THRU ROOF. SEE SHEET M-201 FOR CONTINUATION.
- PROVIDE AND INSTALL NORMALLY CLOSED EMERGENCY GAS SHUT-OFF VALVE INTERLOCKED WITH FIRE SUPPRESSION SYSTEM. INSTALL MANUAL SHUT-OFF VALVE 6'-0" A.F.F. AND SIGN WITH THE FOLLOWING NOMENCLATURE:  
"EMERGENCY GAS SHUT-OFF"  
SIGN SHALL BE MANUFACTURED TO MATCH LETTER STYLE AND APPEARANCE OF ROOM DESIGNATION PLATES. SEE SHEET P-201 FOR GAS LINE CONTINUATION.
- DUCT MOUNTED TEMPERATURE SENSOR.
- PROVIDE 1KW ELECTRIC DUCT HEATER EQUAL TO INDEECO MODEL QJZ MOUNTED IN 10"x6" DUCT. VOLTAGE SHALL BE 120/1/60 AND HEATER SHALL BE CONTROLLED FROM A ROOM THERMOSTAT INDICATED. PROVISIONS SHALL BE MADE SO THAT HEATER SHALL ENERGIZE ONLY WHEN THERE IS AIRFLOW IN THE DUCT AND SPACE IS CALLING FOR HEAT. PROVIDE ACCESS PANEL IN DUCTWORK FOR DUCT HEATER MAINTENANCE.
- KITCHEN VENTILATION HOOD EQUAL TO GREENHECK MODEL GHFW. SEE PROJECT MANUAL FOR MORE INFORMATION.
- 10x10 STAINLESS STEEL DUCT UP FROM DISHWASHER HOOD TO EF-11. SEE SHEET M400 FOR DISHWASHER HOOD DETAIL.
- ANSUL CONTROL PANEL FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
- EF-13 TO OPERATE FROM HOA SELECTOR SWITCH. IN THE AUTO MODE THE FAN SHALL BE CONTROLLED BY A UNIT MOUNTED THERMOSTAT SET TO 80°F.
- EF-2 SHALL BE GREENHECK MODEL CS-071 CEILING EXHAUST FAN AT 180 CFM, 0.25 IN. W.C., 1,050 RPM, 3,070 FT/MIN. TIP SPEED, 1/6 HP, 120/1/60 VOLTS WITH A GRANTY DAMPER AND MANUAL STARTER. PROVIDE BIRDSCREEN AND MOUNT ON A 12" HOOR, ROOF, ROOFCURB. DISREGARD EF-2 ON ORIGINAL SHEET.
- RETURN AIR DISTRIBUTION DEVICE SHALL HAVE A NECK SIZE OF 18x18, A FACE SIZE OF 24x24, A MAXIMUM PRESSURE DROP OF 0.05, A MAXIMUM N.C. OF 30. DEVICE SHALL A PERFORATED FACE.

**GENERAL NOTES:**

- TO AVOID INTERFERENCE WITH THE NORMAL OPERATION OF EXISTING SYSTEMS DO NOT INTERRUPT ANY OF THE EXISTING SERVICES OR EQUIPMENT AT ANYTIME WITHOUT THE OWNER'S PRIOR APPROVAL.
- THE INDICATED NEW DUCTWORK AND PIPING SYSTEM LOCATIONS ARE APPROXIMATE. EXAMINE CAREFULLY EXISTING CONDITIONS AT THE PROJECT SITE AND INSTALL THE NEW DUCTWORK AND PIPING SYSTEMS TO CONFORM AS NEARLY AS POSSIBLE TO LOCATIONS AND ARRANGEMENT INDICATED, WITH ONLY MINOR ADJUSTMENTS AS NECESSARY TO AVOID INTERFERENCE WITH THE EXISTING CONDITIONS. ALL PIPING OR DUCTWORK OFFSETS, RISERS, AND FITTINGS ARE NOT NECESSARILY SHOWN; PROVIDE THESE AS REQUIRED BY THE CONDITIONS INVOLVED. NOTIFY A/E OF ANY CONFLICTS PRIOR TO PROCEEDING WITH THE CORRECTION OF THE PROBLEMS.
- REMOVE ALL PIPING OR DUCTWORK NOT REQUIRED FOR PROPER FUNCTION OF HVAC SYSTEMS.
- WHERE EQUIPMENT, DUCTWORK AND/OR PIPING IS REMOVED, PATCH CEILING AND/OR WALL AS REQUIRED TO MATCH EXISTING.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES.
- ALL DUCT SIZES ARE NET INSIDE CLEAR DIMENSIONS MEASURED INSIDE BARE DUCT.
- DUCT DIMENSIONS GIVEN ARE WIDTH X HEIGHT.
- VOLUME CONTROL DAMPER WITH MANUAL QUADRANT AND LOCK SHALL BE INSTALLED AT EACH DUCT TAKEOFF AND SHALL BE WITHIN 4' OF FINISHED CEILING.
- LOCATE SPACE THERMOSTAT ON WALL AT APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR.
- VERIFY ROOF AND WALL OPENING SIZES WITH EQUIPMENT MANUFACTURER. THE LOCATION OF THESE OPENINGS AND EQUIPMENT SHALL BE COORDINATED WITH STRUCTURAL FOR FRAMING.
- CALLK ALL OPENINGS AROUND DUCTS AND PIPES, THROUGH RATED WALLS AND PARTITIONS AND FIREPROOF PER NFPA.
- ADJUST AND BALANCE AIR FLOW TO INDICATED QUANTITIES.
- WHETHER INDICATED OR NOT, WHERE PIPING AND/OR DUCTWORK ARE TO BE REMOVED CAP AND SEAL ALL PIPE AND/OR OPENINGS AND INSULATE TO MATCH EXISTING.
- REFER TO ARCHITECTURAL SHEET A101 FOR DEMOLITION PLAN.

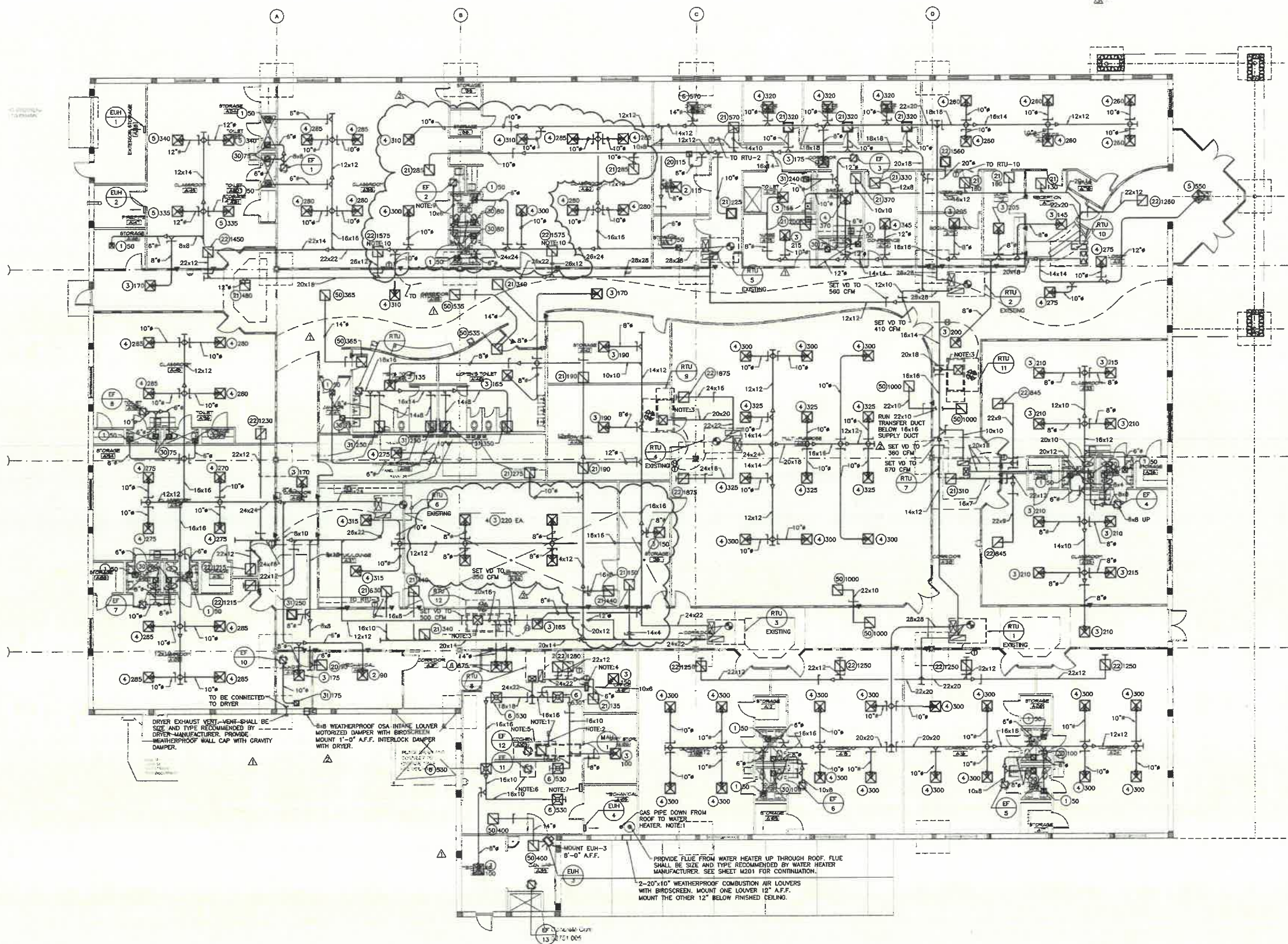
DESIGN TEMPERATURE					
SUMMER			WINTER		
OUTSIDE	INSIDE	WET BULB	OUTSIDE	INSIDE	WET BULB
DB	WB	DB	WB	DB	WB
94°F	75°F	77°F	62.4°F	55°F	—

**SYMBOLS**

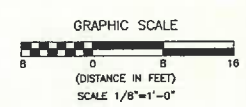
- PLUG COCK
- UNDERGROUND PIPING
- PRESSURE REDUCING VALVE
- EXISTING DUCTWORK AND EQUIPMENT TO REMAIN
- NEW DUCTWORK OR EQUIPMENT
- CEILING DIFFUSERS/REGISTERS
- POINT OF CONN. BETWEEN NEW & EXIST.
- DUCT - WIDTH X DEPTH
- COMBINATION FIRE/SMOKE DAMPER
- VOLUME DAMPER
- THERMOSTAT
- RETURN AIR DEVICE WITH PLENUM BOX
- SPACE MOUNTED HUMIDITY SENSOR
- DUCT MOUNTED HUMIDITY SENSOR

**ABBREVIATIONS**

- A.F.F. ABOVE FINISHED FLOOR
- DB DRY BULB TEMPERATURE, °F
- DN DOWN
- EA EACH
- EAT ENTERING AIR TEMPERATURE
- EF EXHAUST FAN
- ER FIRE REGISTER
- FD FIRE DAMPER
- FN FINISHED
- FLOOR FLOOR
- LAT LEAVING AIR TEMPERATURE
- O.D. OUTSIDE DIAMETER
- OSA OUTSIDE AIR
- PSI POUNDS PER SQUARE INCH
- RA RETURN AIR
- RAC RETURN AIR GRILLE
- SA SUPPLY AIR
- SAD SUPPLY AIR DIFFUSER
- SAG SUPPLY AIR GRILLE
- SAR SUPPLY AIR REGISTER
- SD SMOKE DAMPER
- SP STATIC PRESSURE
- TYP. TYPICAL
- U.G. UNDERGROUND
- UH UNIT HEATER
- WB WET BULB TEMPERATURE, °F
- WS WET BULB TEMPERATURE, °F



**FLOOR PLAN - HVAC**  
M200 1/8" = 1'-0"



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**BIRMINGHAM KOC**  
HEAD START  
BIRMINGHAM, ALABAMA

Job Number  
02108  
Date  
APRIL 2003  
Revisions  
ADDENDUM NO. 1 2/18/03  
ADDENDUM NO. 2 9/13/03  
FLOOR PLAN REVISION 10/03  
ADDENDUM NO. 5  
Checked By  
DCB  
Drawn By  
FPS

**EOR**  
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CHESTER & RIKE, INC.  
CONSULTING ENGINEERS  
6100 FORBES AVENUE • SUITE 1800  
MEMPHIS, TN 38121 • (901) 682-9900

**M200**  
FLOOR PLAN -  
HVAC

**NOTES:**

- COORDINATE GAS REQUIREMENTS WITH LOCAL UTILITY PROVIDER. METER/REGULATOR SHALL PROVIDE 2,102.2 CFH @ 2 PSI AVAILABLE PRESSURE.
- PROVIDE ADDITIONAL FITTINGS AS REQUIRED TO CONNECT GAS SUPPLY TO EQUIPMENT. SEE DETAIL THIS SHEET FOR GAS PRESSURE REGULATOR PIPING.
- DROP THROUGH ROOF AND CONNECT TO KITCHEN EQUIPMENT. PROVIDE GAS COCK, REGULATOR @ 251CFH AND 7" W.C. OUTLET PRESSURE, AND UNION AT UNIT. VENT REGULATOR TO OUTSIDE.
- DROP THROUGH ROOF AND CONNECT TO WATER HEATER. PROVIDE GAS COCK, REGULATOR @ 400CFH AND 7" W.C. OUTLET PRESSURE, AND UNION AT UNIT. VENT REGULATOR TO OUTSIDE.
- GAS PRESSURE REGULATOR SHALL BE SIZED FOR INDICATED CAPACITY AT 2 PSI INLET AND 7" W.C. OUTLET PRESSURE.
- ALL GAS RUNNOUTS SHALL BE 3/4" UNLESS OTHERWISE NOTED.



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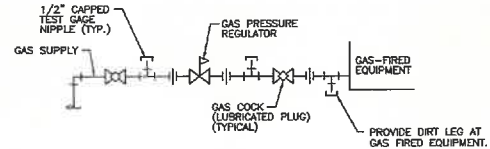
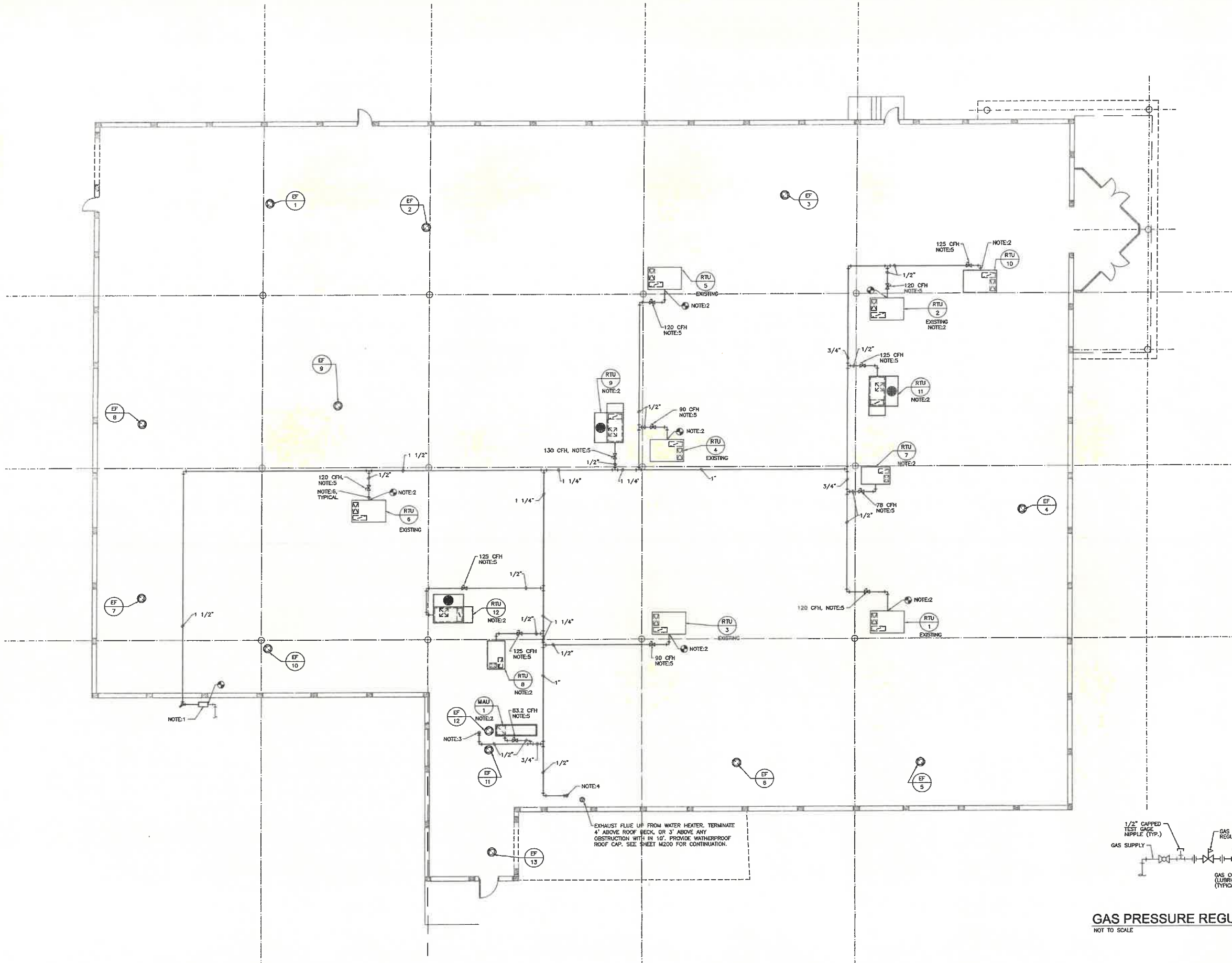
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**BIRMINGHAM KQC**  
HEAD START  
BIRMINGHAM, ALABAMA

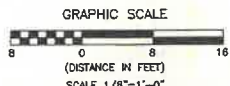


Job Number  
02108  
Date  
JANUARY 6, 2004  
Revisions  
▲ ADDENDUM NO.1 2/19/03  
▲ ADDENDUM NO.2 3/13/03  
▲ ADDENDUM NO.3 3/28/03  
▲ ADDENDUM NO.4 3/28/03  
Checked By Drawn By  
DCB JRT

Sheet  
**M201**  
ROOF PLAN - HVAC  
SUPPLEMENTAL  
DRAWING



**GAS PRESSURE REGULATOR PIPING**  
NOT TO SCALE

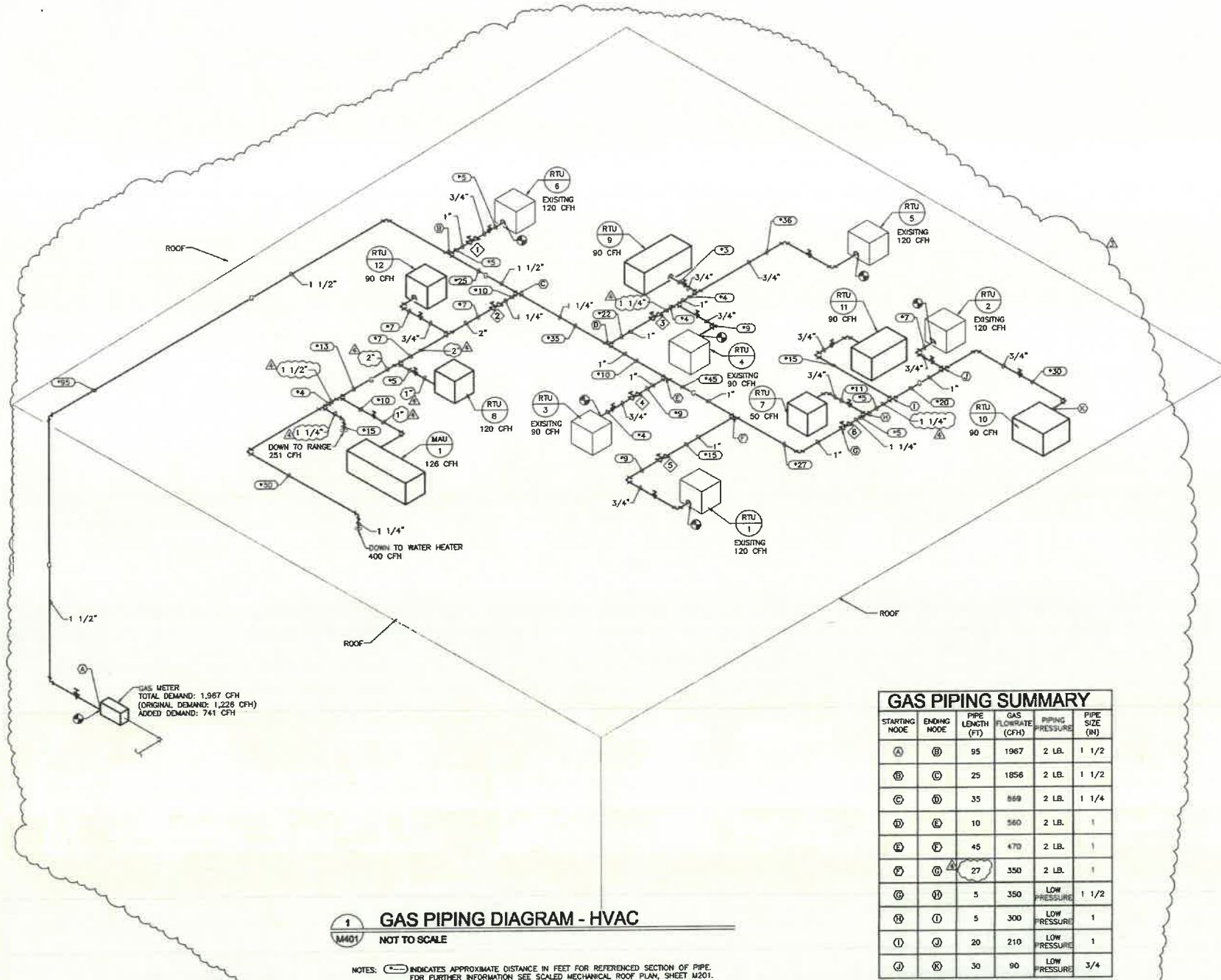


EOBR NO. 02672090  
**EOC**  
**ELLERS, OAKLEY,**  
**CHESTER & RIKE, INC.**  
CONSULTING ENGINEERS  
5150 POPPAIN AVENUE • SUITE 1000  
MEMPHIS, TN 38127 • (901) 645-9900

**1 ROOF PLAN - HVAC - AS BUILT**  
1/8" = 1'-0"

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**GAS PIPING SUMMARY**

STARTING NODE	ENDING NODE	PIPE LENGTH (FT)	GAS FLOW RATE (CFH)	PIPE PRESSURE	PIPE SIZE (IN)
A	B	95	1967	2 LB.	1 1/2
B	C	25	1856	2 LB.	1 1/2
C	D	35	869	2 LB.	1 1/4
D	E	10	560	2 LB.	1
E	F	45	470	2 LB.	1
F	G	27	350	2 LB.	1
G	H	5	350	LOW PRESSURE	1 1/2
H	I	5	300	LOW PRESSURE	1
I	J	20	210	LOW PRESSURE	1
J	K	30	90	LOW PRESSURE	3/4

THE NEW BUILDING WILL REQUIRE A PEAK LOAD OF 1,867 CFH OF GAS (1,190 RTU'S, 126 MAU, 400 WATER HEATER, 251 RANGE). THE LENGTH OF THE LONGEST RUN OF PIPE WILL BE 360FT FROM THE METER TO RTU-10.

**GAS REGULATORS SCHEDULE**

MARK	SERVES	GAS CAPACITY CFH	INLET PRESSURE	OUTLET PRESSURE
1	RTU-5	120	2 LBS	8" W.C.
2	RTU-8, 12, MAU-1, WATER HEATER, RANGE	987	2 LBS	8" W.C.
3	RTU-4, RTU-5, RTU-9	300	2 LBS	8" W.C.
4	RTU-3	90	2 LBS	8" W.C.
5	RTU-2, 7, 10, 11	350	2 LBS	8" W.C.

**AIR BALANCE TABLE**

MARK	SUPPLY AIR CFM	RETURN AIR CFM	OUTSIDE AIR CFM	EXHAUST AIR CFM	TRANSFER FROM	TRANSFER TO	SPACE PRESSURE	REMARKS
RTU 1	5000	4330	670	-400 (EF-5 & EF-6)	0	0	+270	ZONE PRESSURIZATION
RTU 2	4000	3590	410	0	0	0	+410	ZONE PRESSURIZATION
RTU 3	3000	2850	350	-1275 (EF-9)	CORRIDORS (925 CFM)	0	0	NEUTRAL PRESSURE
RTU 4	3750	1850	2,100	0	0	CORRIDORS (2000 CFM)	+100	ZONE PRESSURIZATION
RTU 5	5000	4440	560	-250 (EF-1 & 2)	0	0	+310	ZONE PRESSURIZATION
RTU 6	4000	3500	500	-525 (EF-7, EF-8, & EF-10)	0	0	-25	ZONE PRESSURIZATION
RTU 7	2000	1840	360	-200 (EF-4)	0	0	+160	ZONE PRESSURIZATION
RTU 8	3000	2700	300	-900 (EF-11) -1900 (EF-12)	RTU-12 (1350 CFM) MAU-1 (1520 CFM)	CAN WASH (-400 CFM)	-30	NEGATIVE PRESSURE IN KITCHEN
RTU 10	3000	2850	350	-315 (EF-3)	0	0	+35	ZONE PRESSURIZATION
TOTALS:	32,750	27,150	5,600	-5785	MAU-1 (1520 CFM)	0	+1,355	BUILDING PRESSURIZATION

**RTU-1 OUTSIDE AIR CALCULATIONS**

SPACE NAME	SPACE NO.	FLOOR AREA (SQFT)	NO. OF PEOPLE	REQ. OA (CFM/PERSON)	REQ. OA (CFM/SQFT)	OCCUPANCY FACTOR	REQ. OA TOTAL
CLASSROOM	A124	888	22	15.0	0.00	0.5	165
STORAGE	A120	20	0	0.0	0.00	0.0	0
STORAGE	A117	20	0	0.0	0.00	0.5	0
STORAGE	A119	46	0	0.0	0.00	0.0	0
TILET	A118	41	3	0.0	0.00	0.0	0
CLASSROOM	A115	888	22	15.0	0.00	0.5	165
CLASSROOM	A115	888	22	15.0	0.00	0.5	165
STORAGE	A112	118	0	0.0	0.00	0.0	0
STORAGE	A109	18	0	0.0	0.00	0.0	0
TILET	A111	46	0	0.0	0.00	0.0	0
TILET	A110	46	0	0.0	0.00	0.0	0
CLASSROOM	A108	798	22	15.0	0.00	0.5	185
TOTAL:							660
RTU-1 DESIGN TOTAL:							670

**RTU-2 OUTSIDE AIR CALCULATIONS**

SPACE NAME	SPACE NO.	FLOOR AREA (SQFT)	NO. OF PEOPLE	REQ. OA (CFM/PERSON)	REQ. OA (CFM/SQFT)	OCCUPANCY FACTOR	REQ. OA TOTAL
INFANT/TODDLER	A160	315	8	15.0	0.00	0.5	60.0
INFANT/TODDLER	A161	315	8	15.0	0.00	0.5	60.0
DIRECTOR	A165	228	1	15.0	0.00	1.0	15.0
FILE	A164	165	0	0.0	0.00	0.0	0.0
STORAGE	A163	32	0	0.0	0.00	0.0	0.0
OFFICE	A168	150	1	20.0	0.00	0.5	10.0
OFFICE	A167	150	1	20.0	0.00	0.5	10.0
OFFICE	A168	150	1	20.0	0.00	0.5	10.0
OPEN OFFICE	A169	873	7	20.0	0.00	0.5	70.0
CORRIDOR	A180	300	0	0.0	0.10	0.0	0.0
TOTAL:							235
RTU-2 DESIGN TOTAL:							410

**RTU-3 OUTSIDE AIR CALCULATIONS**

SPACE NAME	SPACE NO.	FLOOR AREA (SQFT)	NO. OF PEOPLE	REQ. OA (CFM/PERSON)	REQ. OA (CFM/SQFT)	OCCUPANCY FACTOR	REQ. OA TOTAL
WETROOM	A135	539	12	15.0	0.0	0.5	90
WETROOM	A138	539	12	15.0	0.0	0.5	90
STAFF	A137	392	3	15.0	0.0	0.5	23
ELECTRICAL	A138	380	0	0.0	0.0	0.0	0
MENS TOILET	A139	248	0	0.0	0.0	0.0	0
WOMENS TOILET	A140	350	0	0.0	0.0	0.0	0
JANITOR	A141	56	0	0.0	0.0	0.0	0
RESOURCE	A142	384	0	0.0	0.0	0.0	0
AV	A143	580	0	0.0	0.0	0.0	0
STORAGE	A183	98	0	0.0	0.0	0.0	0
STORAGE	A184	98	0	0.0	0.0	0.0	0
CORRIDOR	A185	414	0	0.1	0.5	0.1	21
CORRIDOR	A121	391	0	0	0.1	0.5	20
TOTAL:							244
RTU-3 DESIGN TOTAL:							350

**RTU-4 OUTSIDE AIR CALCULATIONS**

SPACE NAME	SPACE NO.	FLOOR AREA (SQFT)	NO. OF PEOPLE	REQ. OA (CFM/PERSON)	REQ. OA (CFM/SQFT)	OCCUPANCY FACTOR	REQ. OA TOTAL
MULTIPURP	A134	2703	280	15.0	0.00	0.5	2100
TOTAL:							2100
RTU-4 DESIGN TOTAL:							2100

**RTU-5 OUTSIDE AIR CALCULATIONS**

SPACE NAME	SPACE NO.	FLOOR AREA (SQFT)	NO. OF PEOPLE	REQ. OA (CFM/PERSON)	REQ. OA (CFM/SQFT)	OCCUPANCY FACTOR	REQ. OA TOTAL
CLASSROOM	A149	833	22	15.0	0.0	0.5	165
STORAGE	A151	28	0	0.0	0.0	0.0	0
TILET	A152	25	0	0.0	0.0	0.0	0
TILET	A153	25	0	0.0	0.0	0.0	0
CLASSROOM	A155	1000	22	15.0	0.0	0.5	185
STORAGE	A148	88	0	0.0	0.0	0.0	0
FOODPREP	A156	59	0	0.0	0.0	0.0	0
TILET	A157	46	0	0.0	0.0	0.0	0
STORAGE	A158	21	0	0.0	0.0	0.0	0
STORAGE	A159	21	0	0.0	0.0	0.0	0
CLASSROOM	A162	1000	22	15.0	0.0	0.5	185
CORRIDOR	A185	350	0	0.0	0.1	0.5	18
CORRIDOR	A154	720	0	0.0	0.1	0.5	36
TOTAL:							549
RTU-5 DESIGN TOTAL:							560

**RTU-6 OUTSIDE AIR CALCULATIONS**

SPACE NAME	SPACE NO.	FLOOR AREA (SQFT)	NO. OF PEOPLE	REQ. OA (CFM/PERSON)	REQ. OA (CFM/SQFT)	OCCUPANCY FACTOR	REQ. OA TOTAL
CLASSROOM	A100	864	22	15	0	0.5	165
STORAGE	A181	24	0	0	0	0	0
STORAGE	A182	24	0	0	0	0	0
TILET	A189	39	0	0	0	0	0
TILET	A190	39	0	0	0	0	0
LAUNDRY	A101	84	0	0	0	0	0
MECHANICAL	A102	215	0	0	0	0	0
CLASSROOM	A144	828	22	15	0	0.5	185
CLASSROOM	A145	828	22	15	0	0.5	185
STORAGE	A184	26	0	0	0	0	0
TILET	A195	21	0	0	0	0	0
TILET	A196	21	0	0	0	0	0
STORAGE	A197	26	0	0	0	0	0
TOTAL:							495
RTU-6 DESIGN TOTAL:							500

**RTU-7 OUTSIDE AIR CALCULATIONS**

SPACE NAME	SPACE NO.	FLOOR AREA (SQFT)	NO. OF PEOPLE	REQ. OA (CFM/PERSON)	REQ. OA (CFM/SQFT)	OCCUPANCY FACTOR	REQ. OA TOTAL
CLASSROOM	A125	888	22	15	0	0.5	165
STORAGE	A126	20	0	0	0	0	0
STORAGE	A129	20	0	0	0	0	0
TILET	A132	42	0	0	0	0	0
TILET	A133	42	0	0	0	0	0
CLASSROOM	A133	888	22	15	0	0.5	165
CORRIDOR	A130	600	0	0	0.1	0.5	30
TOTAL:							360
RTU-7 DESIGN TOTAL:							360

**RTU-8 OUTSIDE AIR CALCULATIONS**

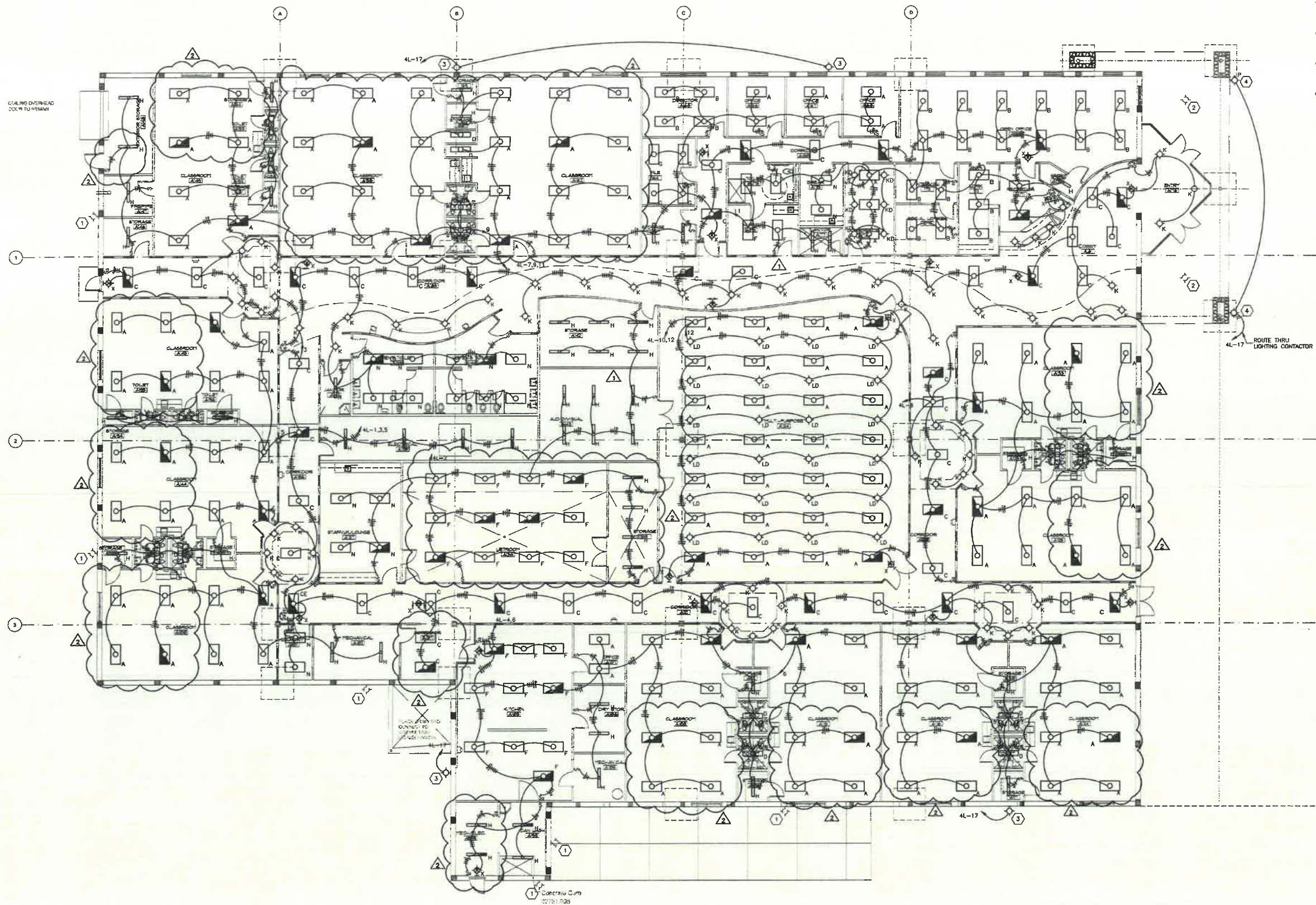
SPACE NAME	SPACE NO.	FLOOR AREA (SQFT)	NO. OF PEOPLE	REQ. OA (CFM/PERSON)	REQ. OA (CFM/SQFT)	OCCUPANCY FACTOR	REQ. OA TOTAL
KITCHEN	A103	888	4	15	0	0.5	30
OFFICE	A107	126	1	20	0	1.5	20
DRY STORAGE	A106	47	0	0	0	0	0
MECHANICAL	A105	110	0	0	0	0	0
MECHANICAL/ELEC	A104	135	0	0	0	0	0
CAN WASH	A199	135	0	0	0	0	0
TOTAL:							50
RTU-8 DESIGN TOTAL:							300

**RTU-10 OUTSIDE AIR CALCULATIONS**

SPACE NAME	SPACE NO.	FLOOR AREA (SQFT)	NO. OF PEOPLE	REQ. OA (CFM/PERSON)	REQ. OA (CFM/SQFT)	OCCUPANCY FACTOR	REQ. OA TOTAL
CONFERENCE	A174	200	8	20	0	0.5	80
RECEPTION	A171	152	1	15	0	1.5	15
WORK	A172	162	2	15	0	0.5	15
SOCIAL WORK	A173	247	2	15	0	0.5	15
NURSE	A179	158	1	15	0	0.5	7.5
TILET	A178	119	0	0	0	0	0
STORAGE	A175	24	0	0	0	0	0
ENTRY	A176	400	5	15	0	0.5	37.5
JANITOR	A177	26	0	0	0	0	0
BREAK	A175	81	1	15	0	0.5	7.5
LOBBY	A181	600	8	15	0	0.5	60
CORRIDOR	A185	352	0	0	0.1	0.5	17.6
TOTAL:							255
RTU-10 DESIGN TOTAL:							350

**3.17 SEQUENCE OF CONTROL**

- A. All set points shall be adjustable.
- B. System 1 (RTU-1, 2, 5, 7, 11 and EF-1, 2, 4, 5, 6):
- RTU-1, 2, 5, and 7 shall be controlled from each unit's 7-day programmable thermostat as described in Part 2, "Programmable Thermostats." RTU-11 shall be controlled from its duct mounted temperature sensor and duct mounted humidity sensor. RTU-11 shall be interlocked with RTU-1, 2, 5 and 7 to energize after any of the RTU's have energized and is in the occupied mode of operation. Control voltage shall be 24 volts, provide step down transformer where not factory furnished. Refer to Division 16 for control and interlock wiring.
  - Occupied Mode: For RTU-1, 2, 5, and 7, the evaporator fan shall run continuously. Cooling coil and condenser shall operate in sequence with gas fired heat to maintain occupied temperature set points (initially set to 75 F cooling, 72 F heating). For RTU-11 the evaporator fan shall run continuously and the outside air damper shall open to set point. Cooling coil and condenser heat reclaim coil shall operate in sequence with gas fired heat to maintain duct temperature set points (initially set to 75 F cooling, 72 F heating). The duct mounted humidity sensor shall override the temperature sensor and energize mechanical cooling whenever the humidity exceeds set point (initially 50%). The temperature sensor shall modulate the hot gas reclaim valve to prevent overcooling. If the hot gas reclaim valve is fully open and duct temperature continues to fall, the thermostat shall cycle the gas heating as required. Exhaust fans EF-1, 2, 4, 5, and 6 shall be interlocked with RTU-11 to operate in the occupied mode.
  - Unoccupied Mode: For RTU-1, 2, 5 and 7, the evaporator fan shall cycle along with the cooling coil and condensing unit in sequence with gas fired heat to maintain unoccupied temperature set points (initially set at 65 F cooling, 65 F heating). For RTU-11 the evaporator fan shall not operate in this mode. Exhaust fans EF-1, 2, 4, 5 and 6 shall not operate in this mode.
  - Smoke detectors located in supply and return air streams of RTU-1, 2, 5, and 7, and in the supply air stream of RTU-12, and smoke detectors in the space shall shut down unit upon detection of products of combustion. Refer to Division 16 for smoke detectors.
- C. System 2 (RTU-4 and 9):
- RTU-4 shall be controlled from its 7-day programmable thermostat as described in Part 2, "Programmable Thermostats." RTU-9 shall be controlled from its duct mounted temperature sensor and duct mounted humidity sensor. RTU-9 shall be interlocked with RTU-4 to energize after RTU-4 has energized and is in the occupied mode of operation. Control voltage shall be 24 volts, provide step down transformer where not factory furnished. Refer to Division 16 for control and interlock wiring.
  - Occupied Mode: For RTU-4, the evaporator fan shall run continuously. Cooling coil and condenser shall operate in sequence with gas fired heat to maintain occupied temperature set points (initially set to 75 F cooling, 72 F heating). For RTU-9 the evaporator fan shall run continuously and the outside air damper shall open to set point. Cooling coil and condenser shall operate in sequence with gas fired heat to maintain duct temperature set points (initially set to 75 F cooling, 45 F heating). The duct mounted humidity sensor shall override the temperature sensor and energize mechanical cooling whenever the humidity exceeds set point (initially 50%). The temperature sensor shall modulate the hot gas reclaim valve to prevent overcooling. If the hot gas reclaim valve is fully open and duct temperature continues to fall, the thermostat shall cycle the gas heating as required.
  - Unoccupied mode: For RTU-4, the evaporator fan shall cycle along with the cooling coil and condenser in sequence with gas fired heat to maintain unoccupied temperature set points (initially set to 80 F cooling, 65 F heating). RTU-9 shall not operate in this mode.
  - Smoke detectors located in supply and return air streams of RTU-4 and in the supply air stream of RTU-9 and the smoke detectors in the space, shall shut down unit upon detection of products of combustion. Refer to Division 16 for smoke detectors.
- D. System 3 (RTU-3, 6, 8, 12 and EF-7, 8, 9, 10, 11, 12):
- RTU-3, 6, 8, and 12 shall be controlled from its 7-day programmable thermostat as described in Part 2, "Programmable Thermostats." RTU-12 shall be controlled from its duct mounted temperature sensor and duct mounted humidity sensor. RTU-12 shall be interlocked with RTU-3, 5, and 8 to energize after any of the RTU's has energized and is in the occupied mode of operation. Control voltage shall be 24 volts, provide step down transformer where not factory furnished. Refer to Division 16 for control and interlock wiring.
  - Occupied Mode: For RTU-3 and 6 the evaporator fan shall run continuously. For RTU-8 the evaporator fan shall run continuously and the outside air damper shall open to its set point. For RTU-3, 6, and 8, cooling coil and condenser shall operate in sequence with gas fired heat to maintain occupied temperature set points (initially set to 75 F cooling, 72 F heating). For RTU-12 the evaporator fan shall run continuously and the outside air damper shall open to set point. Cooling coil and condenser shall operate in sequence with gas fired heat to maintain duct temperature set points (initially set to 75 F cooling, 72 F heating). The duct mounted humidity sensor shall override the temperature sensor and energize mechanical cooling whenever the humidity exceeds set point (initially 50%). The temperature sensor shall modulate the hot gas reclaim valve to prevent overcooling. If the hot gas reclaim valve is fully open and duct temperature continues to fall, the thermostat shall cycle the gas heating as required. Exhaust fans EF-7, 8, 9, and 10 shall be interlocked with RTU-12 to operate in the occupied mode. EF-11, EF-12, and EF-13 shall be interlocked with RTU-8 to operate whenever the RTU-8 fan is operating.
  - Unoccupied mode: For RTU-3, 6, and 8 the evaporator fan shall cycle along with cooling coil and condenser in sequence with gas fired heat to maintain occupied temperature set points (initially set to 80 F cooling, 65 F heating). RTU-8 outside air damper shall remain closed during this mode of operation. RTU-12 and Exhaust fans EF-7, 8, 9, 10, 11, 12, and 13 shall not operate in this mode.
  - Smoke detectors located in supply and return air streams of RTU-3, 6, and 8 and supply air stream of RTU-12 and the smoke detectors in the space shall shut down unit upon detection of products of combustion. Refer to Division 16 for smoke detectors.
- E. Rooftop Unit (RTU-10) and Exhaust Fan (EF-3):
- RTU shall be controlled from its 7-day programm



- KEYNOTES:**
- EXISTING WALL PACK LIGHT FIXTURE TO REMAIN ROUTED THROUGH LIGHTING CONTACTOR AND CONNECTED TO EXISTING CKT "4L-19."
  - EXISTING WID DOWNLIGHT FIXTURE TO REMAIN ROUTED THROUGH LIGHTING CONTACTOR AND CONNECTED TO EXISTING CKT "4L-34."
  - FIXTURE EQUAL TO WALL PACK DESIGNATED BY KEYNOTE "1." FIXTURE SHALL BE ROUTED THROUGH LIGHTING CONTACTOR.
  - COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

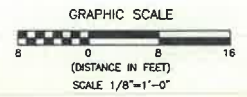
**DEMOLITION NOTE:**

D1. REMOVE ALL LIGHTING, POWER, FIRE ALARM, COMMUNICATIONS AND ASSOCIATED WIRE AND CONDUIT WITHIN THE ENTIRE FACILITY. EXISTING SWITCHGEAR, EXTERIOR LIGHTING AND ROOF TOP EQUIPMENT IS TO REMAIN UNLESS NOTED OTHERWISE. SEE DEMOLITION PLAN SHEET A101.

**GENERAL NOTE:**

1. CONTRACTOR SHALL PROVIDE ALL SEISMIC BRACING FOR FIXTURES AND EQUIPMENT AS REQUIRED BY LOCAL CODE.

**1 FLOOR PLAN - LIGHTING**  
 E201 1/8" = 1'-0"



**E.O.R.**  
 ELLERS, OAKLEY,  
 CHESTER & RIKE, INC.  
 CONSULTING ENGINEERS  
 6130 PUEBLES AVENUE • SUITE 1000  
 HOUSTON, TX 77037 • (713) 682-5000

Job Number  
 02106  
 Date  
 APRIL 2003  
 Revisions  
 Δ ADDENDUM NO. 1 2/19/03  
 Δ FLOOR PLAN REVISION 7/03  
 Δ ADDENDUM #5

Checked By  
 DEC/SMW  
 Drawn By  
 AJP  
 Sheet  
**E200**  
 FLOOR PLAN -  
 LIGHTING

**JOHNSON BAILEY HENDERSON MCNEEL**  
 ARCHITECTS  
 A PROFESSIONAL ASSOCIATION  
 ■ Columbus, MS • 662-329-4883  
 □ Hattiesburg, MS • 601-582-5187  
 □ Jackson, MS • 601-987-8600  
 □ Southaven, MS • 662-280-8265  
 □ Tupelo, MS • 662-844-1822

**BIRMINGHAM KQC**  
 HEAD START  
 BIRMINGHAM, ALABAMA



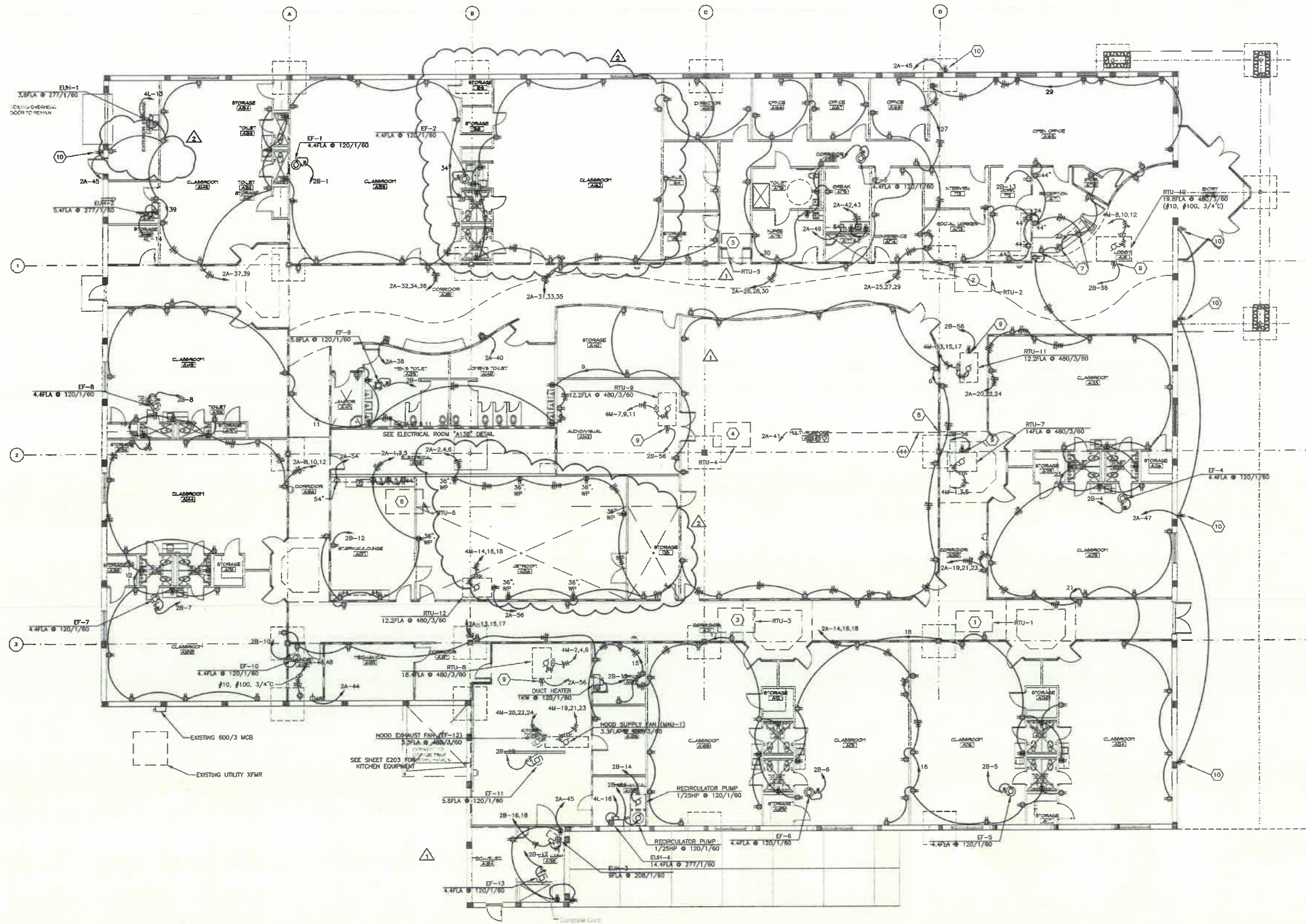
**JOHNSON BAILEY HENDERSON MCNEEL**  
ARCHITECTS  
A PROFESSIONAL ASSOCIATION

- Columbus, MS • 662-329-4883
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- Southaven, MS • 662-280-9255
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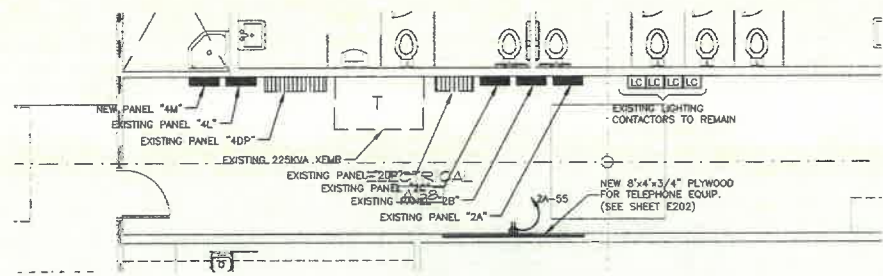
**BIRMINGHAM KQC**  
HEAD START  
BIRMINGHAM, ALABAMA

**KEYNOTES:**

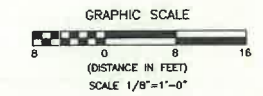
- 1 RTU-1 TO REMAIN CONNECTED TO EXISTING CKT \*40P-1,3,5.
- 2 RTU-2 TO REMAIN CONNECTED TO EXISTING CKT \*40P-2,4,6.
- 3 RTU-3 TO REMAIN CONNECTED TO EXISTING CKT \*40P-7,9,11.
- 4 RTU-4 TO REMAIN CONNECTED TO EXISTING CKT \*40P-8,10,12.
- 5 RTU-5 TO REMAIN CONNECTED TO EXISTING CKT \*40P-13,15,17.
- 6 RTU-6 TO REMAIN CONNECTED TO EXISTING CKT \*40P-14,16,18.
- 7 COORDINATE WITH MILLWORK.
- 8 1" EMPTY CONDUIT TO CEILING SPACE FOR FUTURE USE.
- 9 RECEPTACLE INCLUDED WITH RTU. CONNECT TO CKT AS INDICATED.
- 10 EXISTING RECEPTACLES TO REMAIN.
- 11 SAW CUT CONCRETE AREA. INSTALL UNDER SLAB.



**FLOOR PLAN - POWER**  
E201  
1/8" = 1'-0"



**ELECTRICAL ROOM "A138"**  
E201  
1/4" = 1'-0"



**ELLERS, OAKLEY, CHESTER & RIKE, INC.**  
CONSULTING ENGINEERS  
5105 POPULAR AVENUE • SUITE 1600  
MEMPHIS, TN 38117 • (901) 662-3900

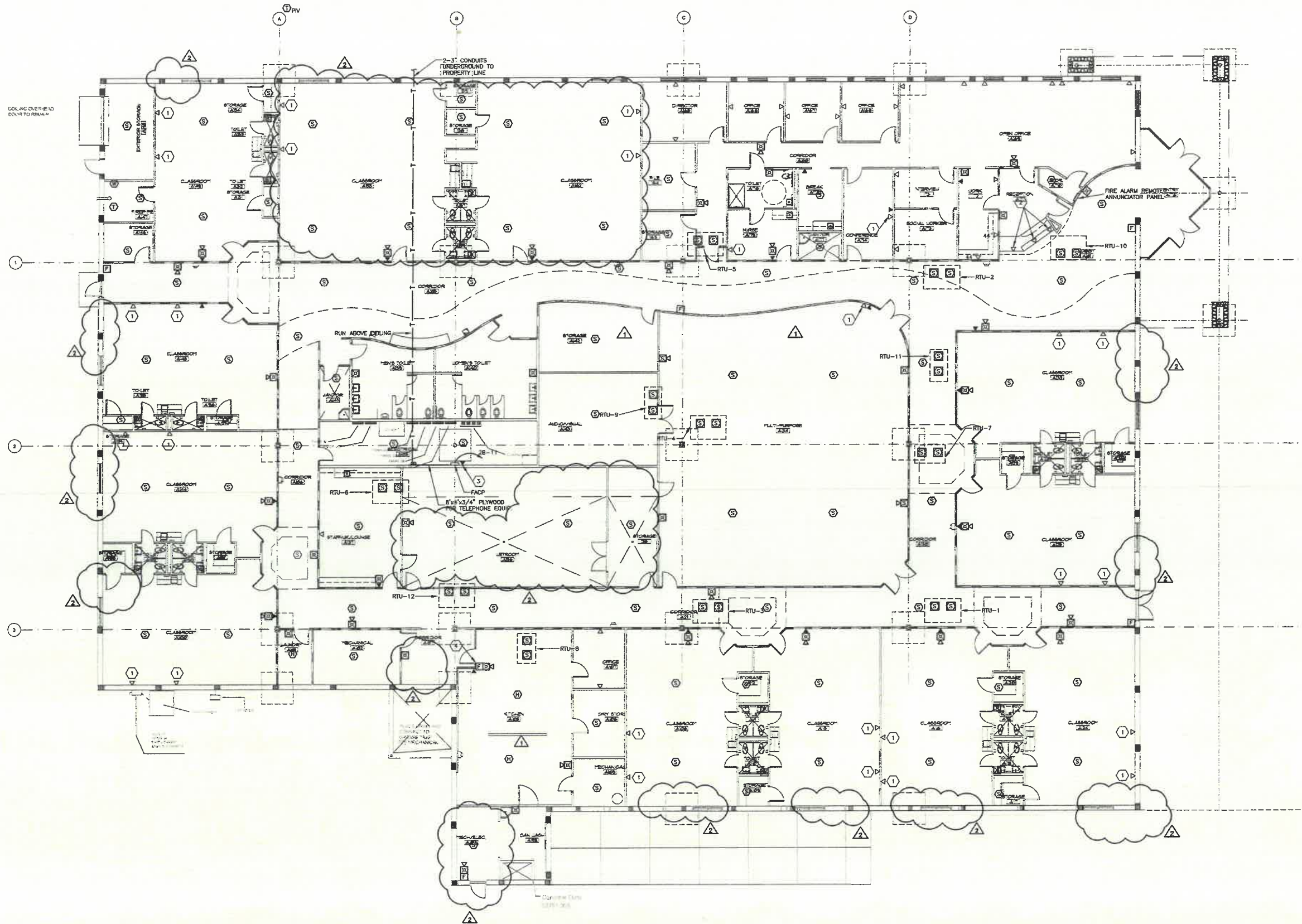
Job Number  
02106  
Date  
APRIL 2003  
Revisions  
▲ ADDENDUM NO. 1 2/18/03  
▲ FLOOR PLAN REVISION 7/8/03  
▲ Addendum # 5  
Checked By  
DEC/SMW  
Drawn By  
AJP  
Sheet  
**E201**  
FLOOR PLAN  
- POWER

**GENERAL NOTES:**

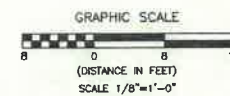
1. KITCHEN HOOD FIRE SUPPRESSION SYSTEM SHALL ACTUATE BUILDING FIRE ALARM SYSTEM.

**KEYNOTES:**

- 1 DATA OUTLET ONLY WITH 3/4" CONDUIT TO CEILING SPACE.
- 2 MOUNT ABOVE COUNTERTOP. COORDINATE WITH MILLWORK.
- 3 COORDINATE WITH FACP.
- 4 MANUAL PULL STATION SUPPLIED WITH KITCHEN HOOD FIRE SUPPRESSION SYSTEM. DEVICE SHALL BE CONNECTED PER MANUFACTURER'S INSTRUCTIONS.



**FLOOR PLAN - TELECOMMUNICATIONS**  
 1/8" = 1'-0"



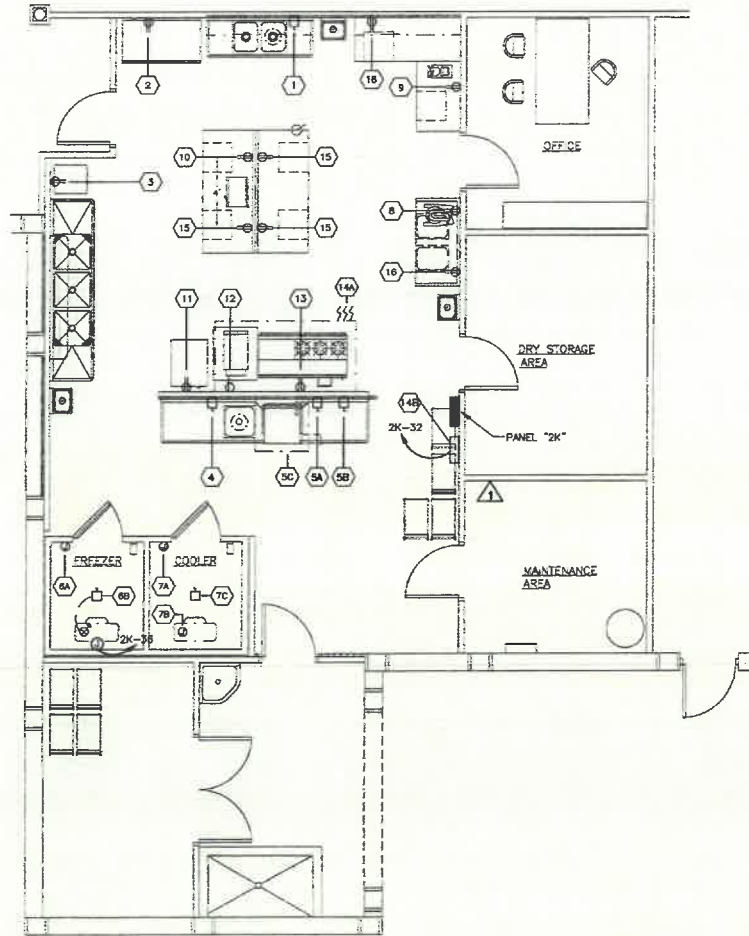
**ELLERS, OAKLEY, CHESTER & RIKE, INC.**  
 CONSULTING ENGINEERS  
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 MEMPHIS, TN 38117 • (901) 688-3900

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 FLOOR PLAN REVISION 7/5/03  
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 Checked By DEC/SMW  
 Drawn By AJP

**E202**  
 FLOOR PLAN  
 - TELECOM.

**JOHNSON BAILEY HENDERSON MCNEEL**  
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 A PROFESSIONAL ASSOCIATION  
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**BIRMINGHAM KQC**  
 HEAD START  
 BIRMINGHAM, ALABAMA



**KITCHEN PLAN**  
E203  
1/4" = 1'-0"

ITEM NO.	EQUIPMENT	V.L.A.	VOLTS	WTS. LBS.	QTY.	CON. NO.	CON. SIZE	CONNECTION	REMARKS
1	FOOD WASTE DISPOSER	10.2	120/1	18" WFP	2K-1,3	2-#12, 1-#12S, 1/2" C	HARDWIRED		SEE NOTE #1 AND NOTE #3
2	REACH-IN REFRIGERATOR	9.0	120/1	18" WFP	2K-5	2-#12, 1-#12S, 1/2" C	NEMA 5-15R		
3	ICE MAKER WITH BIN	3.3	120/1	18" WFP	2K-2	2-#12, 1-#12S, 1/2" C	NEMA 5-15R		
4	FOOD WASTE DISPOSER	12.1	120/1	60" WFP	2K-4,8	2-#12, 1-#12S, 1/2" C	HARDWIRED		SEE NOTE #1 AND NOTE #3
5A	MOTOR & HEATER ON DISHMACHINE	33.9	208/3	60" WFP	2K-7,8,11	3-#10, 1-#10S, 3/4" C	HARDWIRED		SEE NOTE #1
5B	BOOSTER HEATER ON DISHMACHINE	27.7	208/3	60" WFP	2K-9,10,12	3-#10, 1-#10S, 3/4" C	HARDWIRED		SEE NOTE #1
5C	DISHMACHINE HOOD FAN	5.8	120/1	ON ROOF	2K-35	2-#12, 1-#12S, 1/2" C	HARDWIRED	(EP-11) CONNECT TO SWITCH ON DISHMACHINE - SEE NOTE #1	
5A	FREEZER LIGHTS & DOOR HEATER	10.0	120/1	0FA	2K-13	2-#12, 1-#12S, 1/2" C	J-BOX		
6B	FREEZER CONDENSER UNIT/DEFROST COIL	7.5	208/3	ON ROOF	2K-15,17,19	3-#10, 1-#10S, 1" C	HARDWIRED		SEE NOTE #1
7A	COOLER LIGHTS	10.0	120/1	0FA	2K-21	2-#12, 1-#12S, 1/2" C	J-BOX		
7B	COOLER EXHAUSTOR	4.2	120/1	0FA	2K-18	2-#12, 1-#12S, 1/2" C	J-BOX		
7C	COOLER CONDENSER	13.0	208/3	ON ROOF	2K-14,16	2-#10, 1-#10S, 3/4" C	HARDWIRED		SEE NOTE #1
8	MIXER	7.0	120/1	48" WFP	2K-23	2-#12, 1-#12S, 1/2" C	NEMA 5-15R		
9	FOOD PROCESSOR	20.0	120/1	48" WFP	2K-20	2-#10, 1-#10S, 3/4" C	NEMA 5-15R		
10	MICROWAVE	14.0	120/1	BACKPLASH	2K-25	2-#12, 1-#12S, 1/2" C	NEMA 5-15R		
11	HEATED HOLDING CABINET	18.0	120/1	18" WFP	2K-22	2-#12, 1-#12S, 1/2" C	NEMA 5-15R		
12	STEAMER	33.0	208/3	18" WFP	2K-27,29,31	3-#10, 1-#10S, 3/4" C	HARDWIRED		SEE NOTE #1 - SHUNT TRIP BREAKER
13	CONTROLS TO RANGE	10.0	120/1	18" WFP	2K-24	2-#12, 1-#12S, 1/2" C	NEMA 5-15R		SHUNT TRIP BREAKER
14A	EXHAUST HOOD LIGHTS	10.0	120/1	ON HOOD	2K-34	2-#12, 1-#12S, 1/2" C	HARDWIRED		
14B	HOOD FIRE SUPPRESSION CONTROL PANEL	10.0	120/1	ON HOOD	2K-32	2-#12, 1-#12S, 1/2" C	HARDWIRED		
15	COMMENCEMENT OUTLET	10.0	120/1	BACKPLASH	2K-28	2-#12, 1-#12S, 1/2" C	NEMA 5-15R		
16	COMMENCEMENT OUTLET	10.0	120/1	48" WFP	2K-30	2-#12, 1-#12S, 1/2" C	NEMA 5-15R		

**NOTES:**

1. PROVIDE DISCONNECT SWITCHES FOR ALL HARDWIRED APPLIANCES AS REQUIRED BY LOCAL CODE.
2. INTERLOCK SHUNT TRIP BREAKERS AND GAS SOLENOID VALVE WITH HOOD FIRE SUPPRESSION SYSTEM PER MANUFACTURER'S RECOMMENDATIONS.
3. INSTALLATION SHALL COMPLY WITH UL WET LOCATION STANDARDS.
4. COORDINATE ALL ELECTRICAL ROUGH-INS WITH FOOD SERVICE DRAWINGS PRIOR TO CONSTRUCTION.
5. HOOD FIRE SUPPRESSION SYSTEM SHALL BE INTERLOCKED WITH THE FIRE ALARM SYSTEM.
6. REFER TO SHEET E202 FOR LOCATION OF MANUAL PULL STATION SUPPLIED WITH HOOD FIRE SUPPRESSION SYSTEM.

**PANELBOARD SCHEDULE**

PANEL	MOUNTING	ENCLOSURE	SYSTEM	VOLTAGE	MINIMUM A.I.C.	BUS	BREAKER	BRANCH CIRCUIT BREAKERS		LOAD	REMARKS
								TOTAL	TRIP POLES		
4DP (EXISTING)	SURFACE	NEMA 1	3PH, 4W	480Y/277	22 KA	600 A	M.L.O.	1	350/3"	EXISTING 225kVA TRANSFORMER	
								1	225/3"	NEW PANEL "4M"	
								1	100/3"	EXISTING PANEL "4L"	
								2	40/3"	EXISTING RTU-1,5	
								4	20/3"	EXISTING RTU-2,3,4,6	
								1	100/3"	EXISTING SPARE	
								6	1-POLE	S.O.W.B.	
4L (EXISTING)	SURFACE	NEMA 1	3PH, 4W	480Y/277	22 KA	225 A	M.L.O.	2	20/3"	EXISTING SITE LIGHTING	
								10	20/1"	NEW GENERAL LIGHTING	
								3	20/1"	NEW ELM-1,2,4	
								2	20/1"	EXISTING EXTERIOR LIGHTING	
								2	20/1"	NEW MULTIPURPOSE ROOM LIGHTING	
								1	20/1"	NEW EXTERIOR LIGHTING	
								1	20/1"	EXISTING SPARE	
								1	20/1"	EXISTING SPARE	
								6	1-POLE	S.O.W.B.	
4M (NEW)	SURFACE	NEMA 1	3PH, 4W	480Y/277	22 KA	225 A	M.L.O.	6	30/3"	NEW RTU-7,8,9,10,11,12	
								2	15/3"	NEW MAM-1, EF-12	
								4	20/3"	NEW SPARE	
								6	1-POLE	S.O.W.B.	
2DP (EXISTING)	SURFACE	NEMA 1	3PH, 4W	208Y/120	10 KA	800 A	800/3	1	225/3"	EXISTING PANEL "2A"	
								1	225/3"	EXISTING PANEL "2K"	
								1	200/3"	EXISTING PANEL "2B"	
								1	100/3"	EXISTING PANEL "2C"	
								1	100/3"	EXISTING SPARE	
								1	50/2"	EXISTING SPARE	
								1	20/1"	EXISTING SPARE	
								6	1-POLE	S.O.W.B.	
2A (EXISTING)	SURFACE	NEMA 1	3PH, 4W	208Y/120	10 KA	225 A	M.L.O.	43	30/3"	NEW DISMOUNT	
								2	20/1"	NEW GENERAL RECEPTACLES	
								2	20/1"	NEW ELECTRIC DRINKING FOUNTAIN	
								2	20/1"	EXISTING EXTERIOR RECEPTACLES	
								1	20/1"	NEW TELEPHONE EQUIP. RECEPTACLE	
								1	20/1"	NEW RTU RECEPTACLES	
								1	20/1"	NEW WASHING MACHINE	
								2	20/1"	EXISTING SPARE	
								2	20/1"	EXISTING SPARE	
2B (EXISTING)	SURFACE	NEMA 1	3PH, 4W	208Y/120	10 KA	225 A	M.L.O.	1	20/2"	NEW ELM-3	
								12	20/1"	NEW EF-1,2,3,4,5,6,7,8,9,10,11,13	
								2	20/1"	NEW COPY MACHINES	
								1	20/1"	NEW FAN	
								1	20/1"	NEW RECIRCULATOR PUMP	
								42	20/1"	EXISTING SPARE	
2C (EXISTING)	SURFACE	NEMA 1	3PH, 4W	208Y/120	10 KA	100 A	M.L.O.	36	20/1"	EXISTING SPARE	
2K (NEW)	SURFACE	NEMA 1	3PH, 4W	208Y/120	10 KA	225 A	M.L.O.	1	50/3"	NEW STEAMER (SHUNT TRIP BKR)	
								1	40/3"	NEW BOOSTER HEATER	
								1	30/3"	NEW MOTOR & HEATER FOR DISHMACHINE	
								1	15/3"	NEW FREEZER CONDENSING UNIT	
								1	30/2"	NEW COOLER CONDENSER	
								2	20/2"	(2) NEW WASTE DISPOSER	
								2	20/1"	NEW COMMENCEMENT OUTLET	
								1	20/1"	NEW COOLER EQUIP/ATOR	
								1	20/1"	NEW COOLER LIGHTS	
								1	20/1"	NEW EF-11	
								1	20/1"	NEW EXHAUST HOOD LIGHTS	
								1	20/1"	NEW FOOD PROCESSOR	
								1	20/1"	NEW FREEZER LIGHTS & DOOR HEATER	
								1	20/1"	NEW HEATED HOLDING CABINET	
								1	20/1"	NEW HEAT TRACE	
								1	20/1"	NEW HOOD FIRE SUPPRESSION	
								1	20/1"	NEW ICEMAKER	
								1	20/1"	NEW MICROWAVE	
								1	20/1"	NEW MIXER	
								1	20/1"	NEW RANGE CONTROLS (SHUNT TRIP BKR)	
								1	20/1"	NEW REFRIGERATOR	
								6	20/1"	NEW SPARE	

\* EXISTING CIRCUIT BREAKER TO REMAIN.

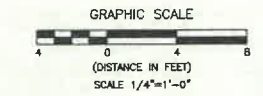


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ADDENDUM NO. 1 2/18/03  
FLOOR PLAN REVISION 7/8/03  
Adendum #5

Checked By  
DEC/SMW  
Drawn By  
AJP



**E203**  
KITCHEN PLAN  
SCHEDULES



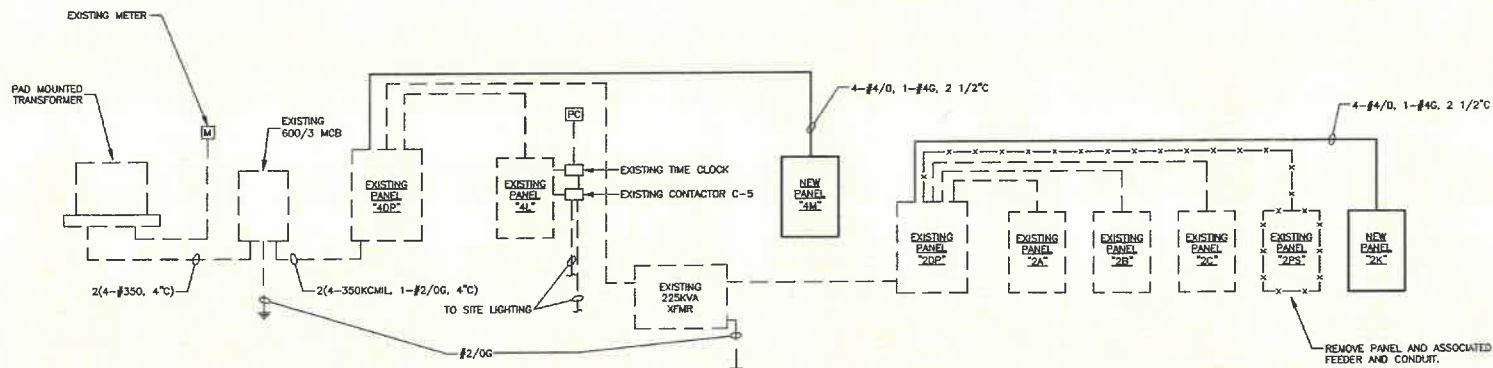
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**BIRMINGHAM KQC**  
HEAD START  
BIRMINGHAM, ALABAMA

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
<b>LIGHTING</b>	
	FLUORESCENT LIGHTING FIXTURE (LETTER REFERENCES FIXTURE SCHEDULE)
	FLUORESCENT LIGHTING FIXTURE WITH EMERGENCY BALLAST (SEE SPEC'S)
	INCANDESCENT, FLUORESCENT OR H.I.D. LIGHTING FIXTURE (LETTER REFERENCES FIXTURE SCHEDULE)
	WALL MOUNTED LIGHTING FIXTURE
	POLE MOUNTED LIGHTING FIXTURE
	EXIT SIGN (FURNISH WITH DUAL FACES AND DIRECTIONAL ARROWS WHERE INDICATED)
<b>SERVICE AND DISTRIBUTION</b>	
	DISTRIBUTION PANEL
	BRANCH CIRCUIT PANEL
	TRANSFORMER
	MOTOR CONNECTION
	DISCONNECT SWITCH (FUSED AS REQUIRED)
	MOTOR CONTROLLER (SPECIFIED IN OTHER THAN DIV. 16)
	COMBINATION MOTOR CONTROLLER & DISCONNECT SWITCH (SPECIFIED IN OTHER THAN DIV. 16)
	EQUIPMENT NOT FURNISHED UNDER DIV. 16 (SPECIFIED IN OTHER THAN DIV. 16)
	EQUIPMENT ELECTRICAL CONNECTION
	LIGHTING CONTACTOR
	PHOTOCELL
<b>BASIC MATERIALS</b>	
	BRANCH CIRCUIT WIRE & CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING, HOME RUN TO PANELBOARD. A NUMERAL, IF PRESENT AT ARROW HEAD, INDICATES CIRCUIT NUMBER. ANY BRANCH CIRCUIT SHOWN WITHOUT SLASH MARKS INDICATES A CONDUIT CONTAINING (3) #12 AWG CONDUCTORS (HOT, NEUTRAL & GROUND). SLASH MARKS, IF PRESENT, INDICATE THE FOLLOWING:
	HOT (ENERGIZED) CONDUCTOR
	NEUTRAL CONDUCTOR
	GROUND CONDUCTOR
	WIRE & CONDUIT RUN EXPOSED
	WIRE & CONDUIT RUN IN OR UNDER FLOOR
	UNDERGROUND ELECTRICAL DUCTBANK OR CONDUIT
	UNDERGROUND TELEPHONE CONDUIT
	WIRE & CONDUIT TURNED UP
	WIRE & CONDUIT TURNED DOWN
	JUNCTION BOX
	MANUAL MOTOR STARTER SWITCH
	SINGLE-POLE, SINGLE-THROW (S.P.S.T.) WALL SWITCH
	WALL BOX DIMMER CONTROL
	SINGLE-POLE, DOUBLE-THROW (S.P.D.T.) WALL SWITCH
	DOUBLE-POLE, DOUBLE-THROW (D.P.D.T.) WALL SWITCH
	SINGLE RECEPTACLE IN WALL (NEMA 5-20R)
	DUPLEX RECEPTACLE IN WALL (NEMA 5-20R)
	G.F.I. TYPE DUPLEX RECEPTACLE IN WALL 44" A.F.F. UNLESS NOTED OTHERWISE (NEMA 5-20R)
	(2) DUPLEX RECEPTACLE (NEMA 5-20R) & DATA OUTLET BOX MOUNTED FLUSH IN FINISHED FLOOR
	DOUBLE DUPLEX RECEPTACLE IN WALL (NEMA 5-20R)
	125/250V RECEPTACLE (NEMA 14-30R)
<b>COMMUNICATIONS</b>	
	TELEPHONE OUTLET MOUNTED 54" AFF WITH 3/4" CONDUIT TO CEILING SPACE
	COMBINATION TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT TO CEILING SPACE

ELECTRICAL LEGEND (CONTINUED)	
SYMBOL	DESCRIPTION
<b>FIRE ALARM</b>	
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM SMOKE DETECTOR (HVAC DUCT MOUNTED)
	FIRE ALARM WATERFLOW SWITCH
	FIRE ALARM FLASHING LIGHT
	FIRE ALARM COMBINATION LOUDSPEAKER & FLASHING LIGHT
	SPRINKLER SYSTEM PRESSURE SWITCH
	SPRINKLER SYSTEM SOLENOID VALVE
	FIRE ALARM TAMPER SWITCH
	SPRINKLER SYSTEM POST INDICATOR VALVE TAMPER SWITCH
<b>ABBREVIATIONS</b>	
A	AMPERE
AF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AC	AMPERES INTERRUPTING CAPACITY
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
DISC	DISCONNECT
EDF	ELECTRIC DRINKING FOUNTAIN
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUND
GFI	GROUND FAULT CIRCUIT-INTERRUPTER
HID	HIGH INTENSITY DISCHARGE
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MLO	MAIN LUGS ONLY
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
OHE	OVERHEAD ELECTRIC
PV	POST INDICATOR VALVE
PNL	PANEL
RGS	RIGID GALVANIZED STEEL
SOWB	SPACE ONLY WITH BUS
UGE	UNDERGROUND ELECTRICAL
V	VOLT
VA	VOLT-AMPERES
WP	WEATHERPROOF
XFMR	TRANSFORMER
3P	THREE POLE
3PH	THREE PHASE
4W	FOUR WIRE
30/3	30 AMPERE, 3-POLE

LIGHTING FIXTURE SCHEDULE						
MARK	DESCRIPTION	MANUFACTURER	LAMP	FINISH	MOUNTING	REMARKS
A	2'x4' PARABOLIC LAY-IN FLUORESCENT	COLUMBIA# P4024-4320-MA36-S-EB8277 (277V.)	(4) 32W T8 3500K	WHITE	RECESSED IN CEILING	
B	2'x4' PARABOLIC LAY-IN FLUORESCENT	COLUMBIA# P4024-3320-MA36-S-EB8277 (277V.)	(3) 32W T8 3500K	WHITE	RECESSED IN CEILING	
C	2'x4' PARABOLIC LAY-IN FLUORESCENT	COLUMBIA# P4024-2320-MA36-S-EB8277 (277V.)	(2) 32W T8 3500K	WHITE	RECESSED IN CEILING	
D	1'x4' LAY-IN FLUORESCENT	COLUMBIA# ST814-2320-FS A12.125A-EB8277 (277V.)	(2) 32W T8 3500K	WHITE	RECESSED IN CEILING	
F	2'x4' LAY-IN FLUORESCENT	COLUMBIA# ST824-4320-FS A12.125A-EB8277 (277V.)	(4) 32W T8 3500K	WHITE	RECESSED IN CEILING	
G	2'x4' LAY-IN FLUORESCENT	COLUMBIA# ST824-3320-FS A12.125A-EB8277 (277V.)	(3) 32W T8 3500K	WHITE	RECESSED IN CEILING	
H	4' OPEN STRIP FLUORESCENT	COLUMBIA# CS4-2320-EB8277 (277V.)	(2) 32W T8 3500K	WHITE	CEILING MOUNTED	
K	6" FLUORESCENT DOWNLIGHT	PRESCOLITE# CF7632EB-STF602 (277V.)	(1) 42W TRIPLE 3500K	STANDARD	RECESSED IN CEILING	
KD	6" FLUORESCENT DOWNLIGHT	PRESCOLITE# CF7632EB-STF602-DM (277V.)	(1) 42W TRIPLE 3500K	STANDARD	RECESSED IN CEILING	INCLUDES DIMMING BALLAST
LD	6" FLUORESCENT DOWNLIGHT	PRESCOLITE# CFR626EB-ST372A-DM (277V.)	(2) 26W QUAD 3500K	STANDARD	RECESSED IN CEILING	INCLUDES DIMMING BALLAST
N	2'x4' LAY-IN FLUORESCENT	COLUMBIA# ST824-2320-FS A12.125A-EB8277 (277V.)	(2) 32W T8 3500K	WHITE	RECESSED IN CEILING	
P	EXTERIOR HID UPLIGHT	KIM# WD1440/175MH/27/BL-P (277V.)	(1) 175W MH	BLACK	SURFACE MOUNT	COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
X	EXIT SIGN	DUAL LITE# LXURWE (277V.)	LED	WHITE	AS INDICATED ON DRAWING	UNIVERSAL MOUNT



Electrical Riser Diagram  
SCALE: NOT TO SCALE



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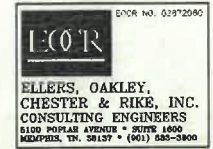
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BIRMINGHAM KQC  
HEAD START  
BIRMINGHAM, ALABAMA



Job Number  
02106  
Date  
NOVEMBER 2002  
Revisions

Checked By  
DEC/SMW  
AJP



E300  
LEGEND AND  
SCHEDULES