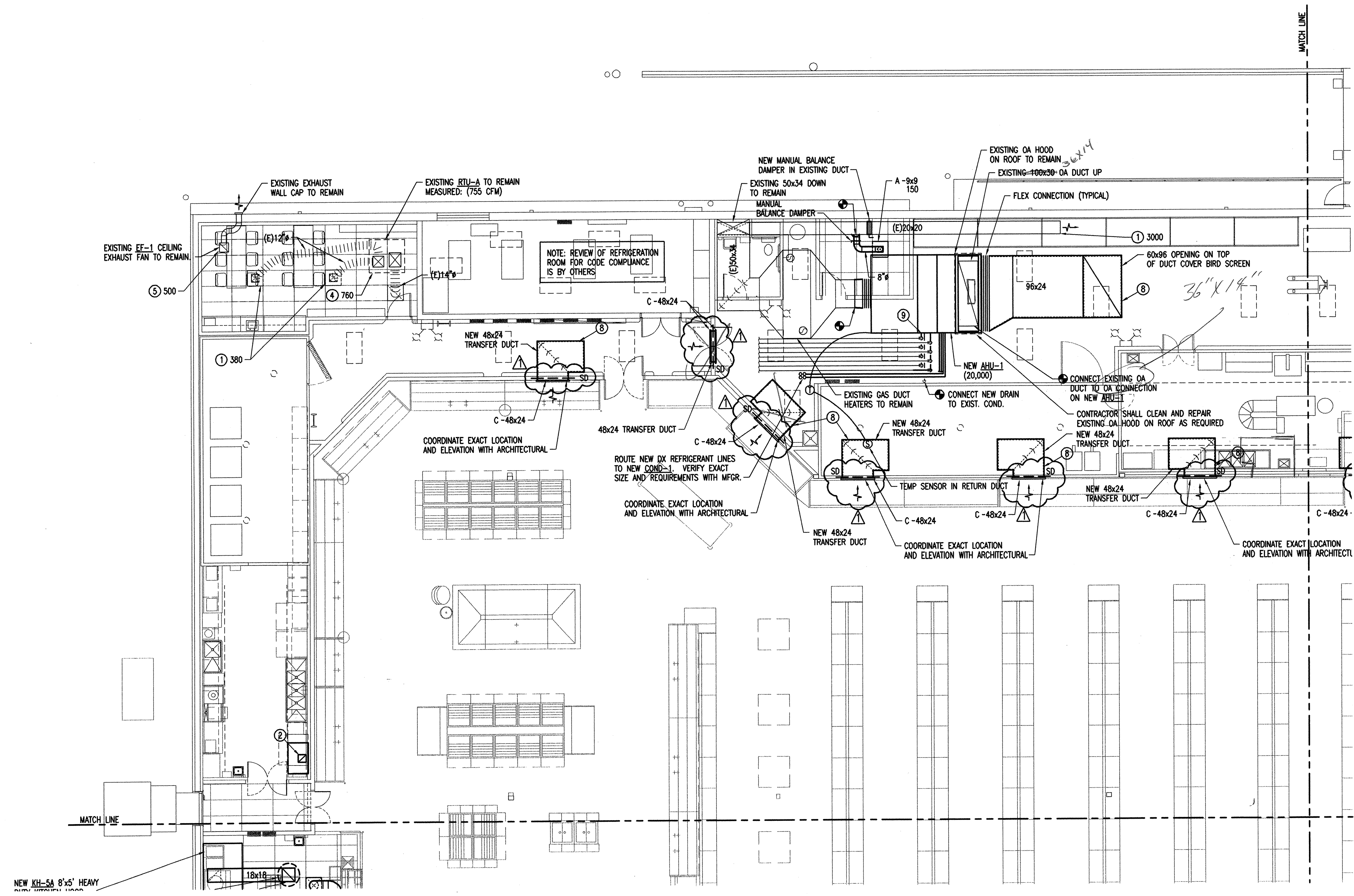


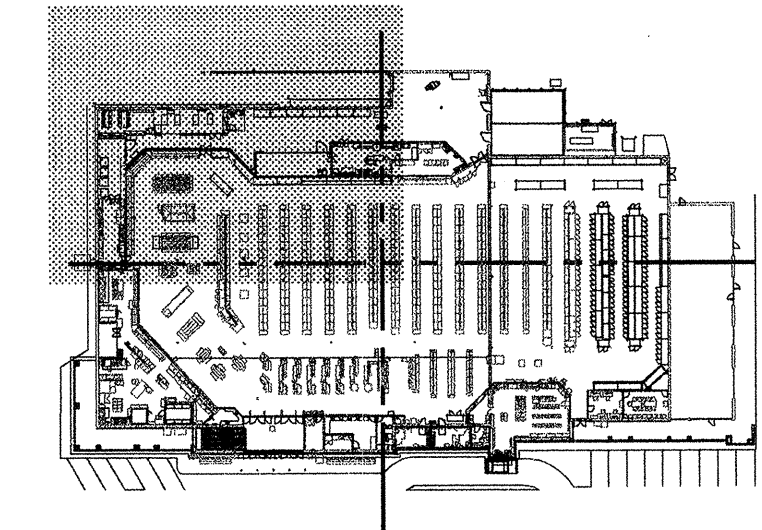
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1 PARTIAL MECHANICAL MAIN LEVEL FLOOR PLAN
 Scale: 1/8" = 1'-0"

- GENERAL NOTES:**
- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS & SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING FINAL BIDS, AND PRIOR TO FABRICATION OR ORDERING OF EQUIPMENT OR MATERIALS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND ALL EXISTING CONDITIONS. LACK OF SUCH COORDINATION SHALL NOT JUSTIFY AN INCREASE IN CONTRACT PRICE.
 - PHASING REQUIREMENTS AND SCHEDULE WILL BE PROVIDED BY OWNER.
 - PLANS ARE SCHEMATIC IN NATURE. COORDINATE EXACT LOCATION OF DIFFUSERS/GRILLES AND ROUTING OF DUCTWORK WITH LIGHTS, PIPING, STRUCTURE AND ARCHITECTURAL CEILINGS. REFER TO ELECTRICAL DRAWINGS FOR EXACT CEILING GRID/LIGHTING LAYOUT.
 - DO NOT ROUTE PIPING OR DUCTWORK OVER ELECTRICAL PANELS.
 - ALL WORK SHALL COMPLY WITH LATEST ADOPTED LOCAL, STATE AND FEDERAL CODES AND REGULATIONS.
 - ALL DIFFUSERS ARE 4-WAY BLOW UNLESS OTHERWISE INDICATED ON PLANS.
 - ALL EXPOSED DUCTWORK SHALL BE FORMED ON FLANGE PER SPECIFICATIONS PAINTED PER ARCHITECTS SPECIFICATIONS. NO FLEX DUCT IS ALLOWED IN EXPOSED AREAS. ALL METAL EXPOSED TO VIEW SHALL HAVE MILL-PHOSPHATIZED FINISH AND SHALL BE FREE FROM DEFECTS WHICH WOULD IMPAIR PAINTING.
 - CONTRACTORS SHALL IDENTIFY AND REPAIR ANY DAMAGED DIFFUSERS. PROVIDE ITEMIZED QUANTITY OF DAMAGED DIFFUSERS TO BE REPLACED.
 - CONTRACTOR SHALL CLEAN AND PAINT ALL EXISTING DIFFUSERS AND GRILLES TO REMAIN.
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 - RTU-9 SHALL BE INTERLOCKED TO RUN WHEN EF-3, EF-4, EF-5A OR EF-5B ARE OPERATING.

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 - UW-50 VENT KIT INCLUDED WITH DISHWASHER UNIT AND SUPPLIED BY HOBART. VENT KIT AUTOMATICALLY REMOVES STEAM/CONDENSATION AT THE COMPLETION OF THE WAREWASH CYCLE. WAREWASHER DOOR WILL NOT OPEN UNTIL THIS PROCESS IS COMPLETED. MECHANICAL CONTRACTOR TO CONNECT A 10" STAINLESS STEEL DUCT TO THE VENT KIT OPENING THRU ROOF AND TO TERMINATE THE END OF THE DUCT WITH A GOOSENECK. SIZE DUCT PER MANUFACTURERS REQUIREMENTS.
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 - REBALANCE EXISTING EXHAUST FAN TO AIRFLOW INDICATED. REFER TO AIR BALANCE SCHEDULE ON SHEET M1.0. RESHAPE EXISTING UNIT AS REQUIRED.
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2 KEY PLAN
 Scale: N.T.S.

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GREG S. SCHUNK
 LICENSED PROFESSIONAL ENGINEER
 1419
 19518

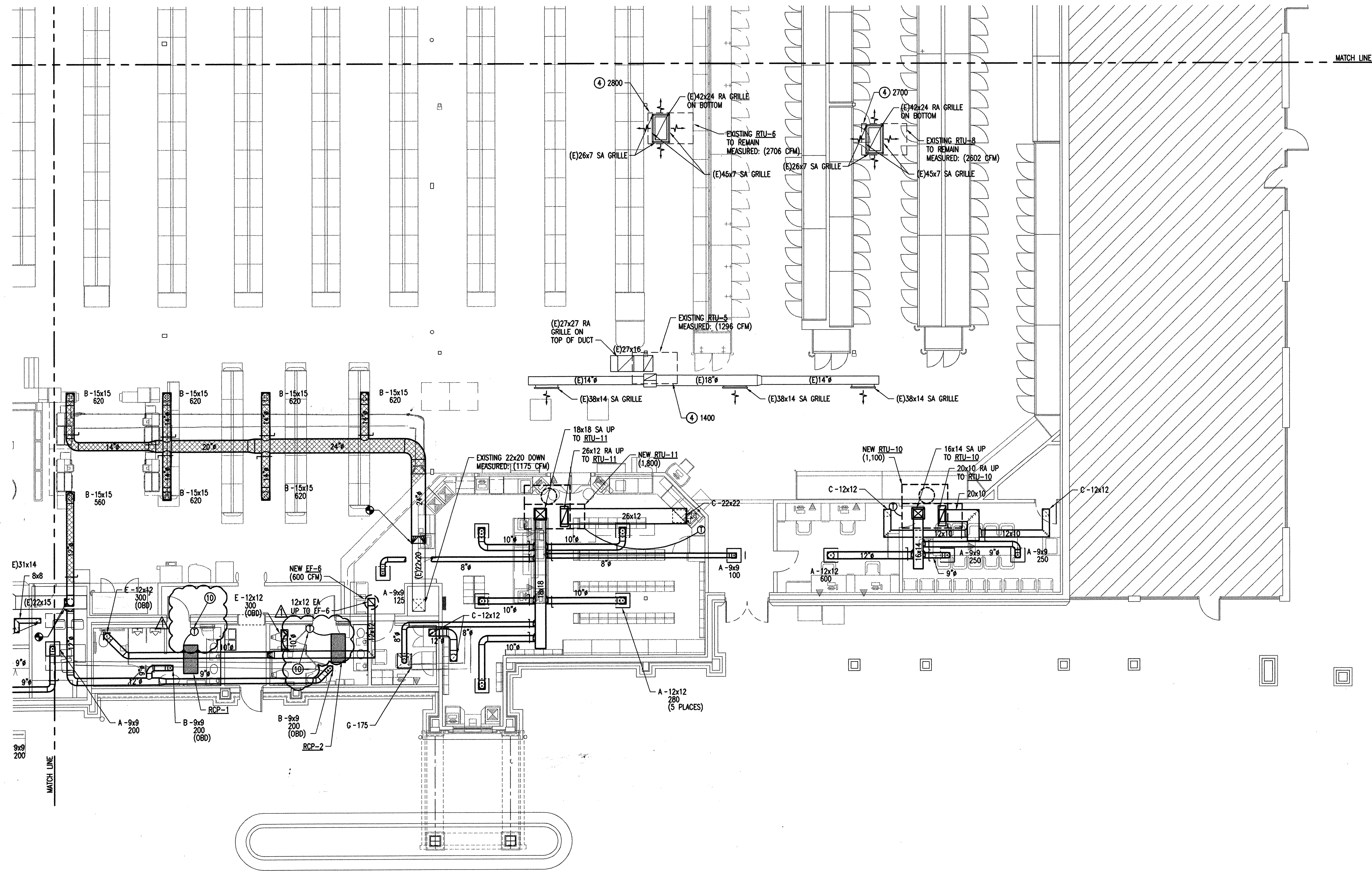
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REVISIONS
12/11/09 ADDENDUM #1

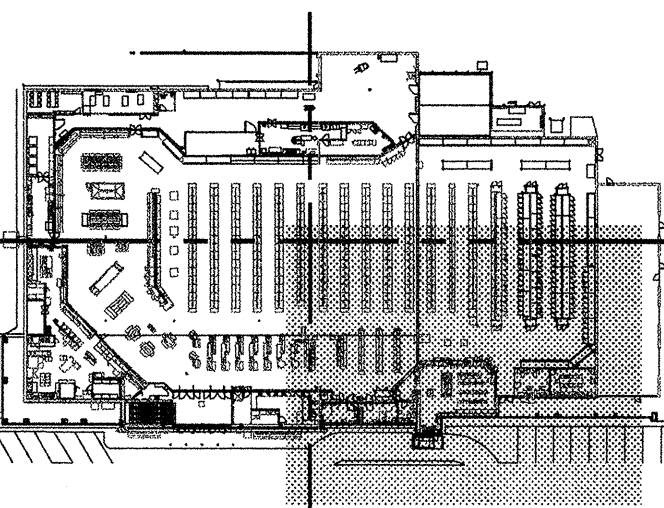
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PARTIAL MECHANICAL FLOOR PLAN

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1 PARTIAL MECHANICAL MAIN LEVEL FLOOR PLAN
 Scale: 1/8" = 1'-0"



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GREG S. SCHINK
 1418
 12/11/09
 PROFESSIONAL ENGINEER

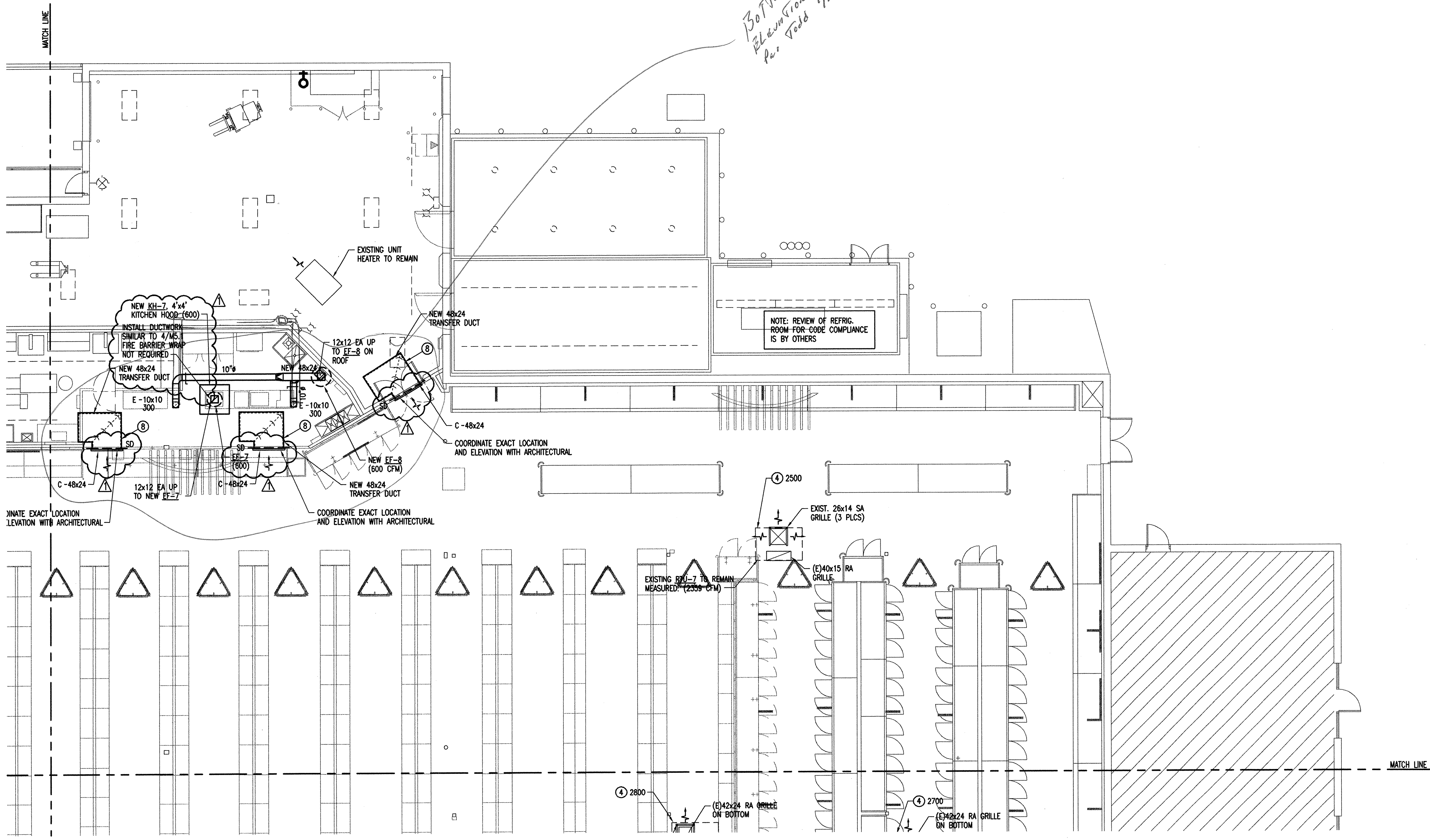
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PARTIAL MECHANICAL FLOOR PLAN

Saved: 12-08-2009 9:22:52 AM by SPH
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Bottom Elevation of Transfer Grille 16" Typical

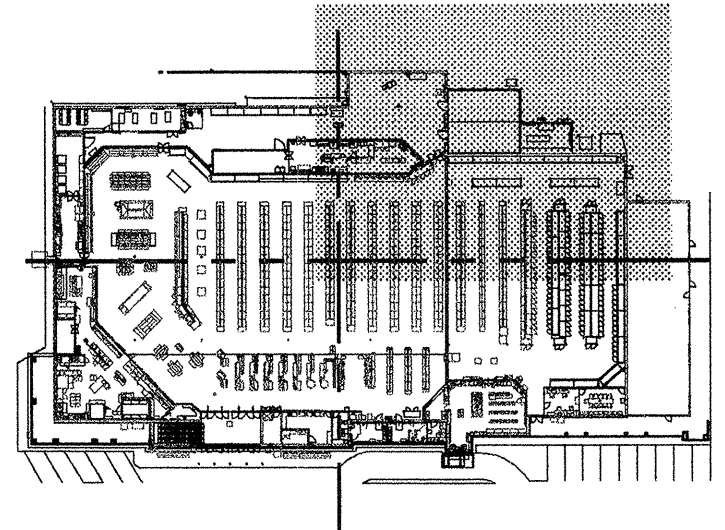
NOTE: REVIEW OF REFRIG. ROOM FOR CODE COMPLIANCE IS BY OTHERS

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1 PARTIAL MECHANICAL MAIN LEVEL FLOOR PLAN
 Scale: 1/8" = 1'-0"

2 KEY PLAN
 Scale: N.T.S.



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GREG S. SCHULZ
 LICENSED PROFESSIONAL ENGINEER
 12/11/09

109044
 DATE: 11.30.09
 REVISIONS
 12/11/09 ADDENDUM #1

PARTIAL MECHANICAL FLOOR PLAN
 M1.1D

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AIR HANDLING UNIT SCHEDULE

MARK	LOC. AT ROOM	FAN					COIL			FILTER				MOTOR (BY MC)				MIN OA	COMPONENTS << AIRFLOW >>	REMARKS	ELECT. REF.			
		CFM	BHP	RPM	S.P. (INCH H ₂ O) EXT TOTAL	TYPE	DIA.	1st IN UNIT	2nd IN UNIT	MIN SQ FT	DEPTH	TYPE	MEAN PD	TYPE	HP	SPEED	RPM					ELECT	STARTER	
AHU-1	BACK	20,000	19.5	1279	2.75	4.76	AF	30"ø	DXC-1	RC-1	48.9	4	PLEATED	0.65	ODP	25	VAR	1750	208/3ø	VFD	2,500	SF,RC,DXC,FMB	(1)(A)	(B)

(1) BASED ON McQUAY CAH047GDAM

COMPONENT KEY

DP	DISCHARGE PLENUM	MC	MEDIUM COIL (20")
RF	FINAL FILTER	AF	ANGLE FILTER
FP	PLENUM FAN	FMB	FILTER MIXING BOX
SA	SHORT ACCESS (12")	SF	SUPPLY FAN
MA	MEDIUM ACCESS (18")	RC	RECLAIM COIL
LA	LONG ACCESS (24")	DXC	DX COIL
HC	HEATING COIL	HM	HUMIDIFIER

(A) PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
(B) REFER TO ELECTRICAL.

CONDENSER SCHEDULE - AIR COOLED

MARK	LOC. AT ROOM	MATCH WITH	REFRIG. TYPE	CAP. MBH	O.A. AMB TEMP	CONDENSER MOTOR(S)				MCA	WEIGHT	MIN. AMB. TEMP.	REMARKS	ELECT. REF.	
						NO.	RPM	HP	FLA						
COND-1	ROOF	AHU-1	R410A	765	105	6	---	---	53.2	208/3ø	356	4200	-20°F	(1)(A)	(B)

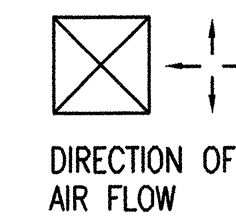
(1) BASED ON McQUAY RCS080D CONDENSING UNIT WITH LOW AMBIENT KIT.

(A) PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
(B) REFER TO ELECTRICAL.

GRILLE & REGISTER SCHEDULE

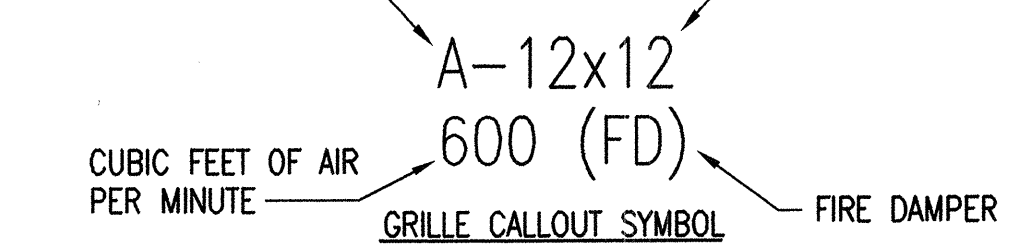
MARK	TYPE	MANUFACTURER BASED ON	MODEL	MATERIAL		FINISH				ACCESSORIES & REMARKS	O.B.D.
				ALUM	STEEL	WHITE ALUM	BLACK BRONZE	CLEAR ANODIZ.	MILL		
A	SUPPLY DIFFUSER	TITUS	TDC-AA-3	X	X					(A) 24x24 LAY-IN PANEL	
B	SUPPLY DIFFUSER	TITUS	TDC-AA-1	X	X					(A) SURFACE MOUNT	
C	RETURN GRILLE	TITUS	350RL	X	X					(A) 3/4" SPACING, 35" DEFL. SURFACE	
D	DOOR GRILLE	TITUS	T-700L-1	X	X					(A) SIGHT PROOF DOOR GRILLE	
E	EXHAUST GRILLE	TITUS	350RL	X	X					(A) 3/4" SPACING, 35" DEFL. SURFACE	
F	SUPPLY REGISTER	TITUS	300RS	X	X					(A) SIDEWALL, DOUBLE DEFLECTION	
G	SUPPLY DIFFUSER	ACUTHERM	TF-HC	X	X					(A)	
H	SUPPLY REGISTER	TITUS	300RS	X	X					(A) DOUBLE DEFLECTION	
J	SUPPLY DIFFUSER	TITUS	PAR	X	X					(A) 24x24 FACE, LAY-IN	

(A) PROVIDED AND INSTALLED BY CONTRACTOR.



DIRECTION OF AIR FLOW

GRILLE CALLOUT IN GRILLE AND REGISTER SCHEDULE



COIL SCHEDULE - RECLAIM

MARK	LOC. AT UNIT	CFM	AIR					COIL				DESCRIPTION	S&R RUNOUT SIZE	REMARKS	
			MAX. APD	E.A.T. db	L.A.T. db	L.A.T. db	WATER GPM	EWT	LWT	WPD	CAP MBH				SIZE LxH
RC-1	AHU-1	20,000													(A)

(A) PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.

COIL SCHEDULE - DX COIL

MARK	LOC. AT UNIT	MATCH WITH	AIR					COIL				DESCRIPTION	REMARKS		
			CFM	MAX. APD	E.A.T. db	E.A.T. db	L.A.T. db	REFRIG	CAP MBH	SIZE LxH	FV FPM			ROWS	FINS /INCH
DXC-1	AHU-1	COND-1	20,000	0.78	80	67	54	54	R410A	782	27x107	498	4	10	(A)

(A) PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.

ROOFTOP UNIT SCHEDULE

MARK	UNIT P-NET NUMBER 060-000	EVAPORATOR				CONDENSER				HEATING SECTION MBH			ELECT.	MCA	WEIGHT	MIN O.A. CFM	MIN EER	CURB P-NET NUMBER 060-000	REMARKS	ELEC REF.				
		CFM	ESP "WC	HP	DRIVE	MBH CLG SEN TOT	O.A. TEMP	COMPRESSOR TYPE	RLA NO.	FLA NO.	INPUT	OUTPUT									STAGE			
RTU-9	40506	8400	.65	7.5	BELT	345	431	105	SCROLL	30.1	4	5.4	4	810	648	4	208/3ø	174	6500	6000	9.1	---	(1)(A)	(B)
RTU-10	40506	1100	.55	2	BELT	28.2	32.6	105	SCROLL	10.4	1	1.1	1	69	55.9	2	208/3ø	19	1000	125	9.0	42470	(2)(A)	(B)
RTU-11	40506	1800	.55	2	BELT	47.3	56.4	105	SCROLL	15.6	1	2.6	1	90	72.9	2	208/3ø	27	1000	200	9.0	42470	(3)(A)	(B)
RTU-12	40506	2400	.55	2	BELT	66.5	83.6	105	SCROLL	25	1	2.6	2	90	72.9	2	208/3ø	44	1000	250	8.8	42470	(4)(A)	(B)

(1) BASED ON AAO MODEL RN-040-8-0-BB04-3D9-A000-E0B-DFS-000-EHACHBJ-00-00B00000X, DOWNFLOW PACKAGED ROOFTOP UNIT WITH ECONMIZER, HOT GAS BYPASS, HOT GAS REHEAT HGRH AND INSULATED SEISMIC ROOF CURB.

(2) BASED ON AAO MODEL RM-A03-8-0-BA01-212.0000-00B-BGC-000-COAFHBJ-00-00B00000X, DOWNFLOW PACKAGED ROOFTOP UNIT WITH MANUAL OUTSIDE AIR AND INSULATED SEISMIC ROOF CURB.

(3) BASED ON AAO MODEL RM-A05-8-0-BB01-222.0000-00B-BBC-000-COAFHBJ-00-00B00000X, DOWNFLOW PACKAGED ROOFTOP UNIT WITH MANUAL OUTSIDE AIR AND INSULATED SEISMIC ROOF CURB.

(4) BASED ON AAO MODEL RM-007-8-0-BB01-222.0000-00B-BBD-000-POAFHBJ-00-00B00000X, DOWNFLOW PACKAGED ROOFTOP UNIT WITH MANUAL OUTSIDE AIR AND INSULATED SEISMIC ROOF CURB.

(A) PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.

(B) REFER TO ELECTRICAL.

EXHAUST FAN SCHEDULE

MARK	P-NET NUMBER 060-000		LOC	TYPE	MIN. CAP		FAN RPM	DRIVE	MOTOR (BY M.C.)				REMARKS	ACCESSORIES	ELECT REF.	
	FAN	CURB			CFM	SP			HP (W)	RPM	SPEED	ELECT.				STARTER
EF-3	42836	42413	ROOF	CENT.	2100	1.0	---	BELT	1/2	---	1	208/3ø	E.C.	(1)(A)(C)(F)	RC, DS, UL, GT	(B)
EF-4	42826	42412	ROOF	CENT.	875	1.0	---	DIR	1/3	---	1	120V	E.C.	(2)(A)(C)(F)	RC, DS, UL, GT	(B)
EF-5A	42828	42413	ROOF	CENT.	1800	1.0	---	BELT	1/2	---	1	208/3ø	E.C.	(1)(A)(C)(F)	RC, DS, UL, GT	(B)
EF-5B	42828	42413	ROOF	CENT.	1800	1.0	---	BELT	1/2	---	1	208/3ø	E.C.	(1)(A)(C)(F)	RC, DS, UL, GT	(B)
EF-6	42811	42408	ROOF	CENT.	600	1.0	1133	DIR	0.33	---	1	120V	E.C.	(3)(B)	RC, DS, BS, BD	(B)
EF-7	42824	42412	ROOF	CENT.	600	1.0	1222	DIR	1/3	1600	1	120V	E.C.	(2)(A)(C)(F)	RC, DS, UL, GT	(B)
EF-8	42811	42408	ROOF	CENT.	600	1.0	1133	DIR	0.33	---	1	120V	E.C.	(3)(A)(D)	RC, DS, BS, BD	(B)

(1) BASED ON CAPTIVE-AIRE NCA14FA BELT DRIVE CENTRIFUGAL UPBLAST EXHAUST FAN WITH ALUMINUM WHEEL, SPEED CONTROL, BIRDSCREEN, ISOLATED MOTOR AND NEMA 3R SWITCH, INSULATED ROOF CURB AND WIRING PIGTAIL.

(2) BASED ON CAPTIVE-AIRE DU33HFA HIGH SPEED DIRECT DRIVE CENTRIFUGAL UP BLAST EXHAUST FAN WITH ALUMINUM WHEEL, SPEED CONTROL, BIRDSCREEN, ISOLATED MOTOR AND NEMA 3R SWITCH, INSULATED ROOF CURB AND WIRING PIGTAIL.

(3) BASED ON CAPTIVE-AIRE DR12HFA DIRECT DRIVE CENTRIFUGAL DOWNBLAST EXHAUST FAN WITH ALUMINUM WHEEL, SPEED CONTROL, BIRDSCREEN, ISOLATED MOTOR AND NEMA 3R SWITCH, INSULATED ROOF CURB AND WIRING PIGTAIL.

(A) PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.

(B) SWITCH WITH LIGHTS.

(C) SWITCH WITH HOOD.

(D) ALWAYS ON

(E) SWITCH WITH PROOFER

(F) PROVIDE HEAT SENSOR WHICH AUTOMATICALLY TURNS HOOD WHEN COOKING.

(G) REFER TO ELECTRICAL.

ACCESSORIES KEY

RC	ROOF CURB
DS	DISCONNECT SWITCH
VSC	VARIABLE SPEED CONTROLLER
BS	BIRDSCREEN
BD	BACKDRAFT DAMPER
UL	UL 767 COMPLIANT
GT	GREASE TERMINATOR

KITCHEN HOOD SCHEDULE

MARK	P-NET NUMBER 060-000	MATCH WITH	LENGTH	WIDTH	EXHAUST AIRFLOW (CFM)	REMARKS	ELECT. REF.
KH-4	42502	EF-4	5'	5'	875	(1)(A) TYPE I (MEDIUM DUTY)	(B)
KH-5A	42506	EF-5A	8'	5'	1800	(1)(A) TYPE I (HEAVY DUTY)	(B)
KH-5B	42506	EF-5B	8'	5'	1800	(1)(A) TYPE I (HEAVY DUTY)	(B)
KH-7	42540	EF-7	4'	4'	600	(2)(A) TYPE II (LIGHT DUTY)	(B)

(1) BASED ON CAPTIVE-AIRE 6024ND

(2) BASED ON CAPTIVE-AIRE 4824 VH1

(A) PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. ANSUL SYSTEM PROVIDED AND INSTALLED BY OWNER.

(B) REFER TO ELECTRICAL.

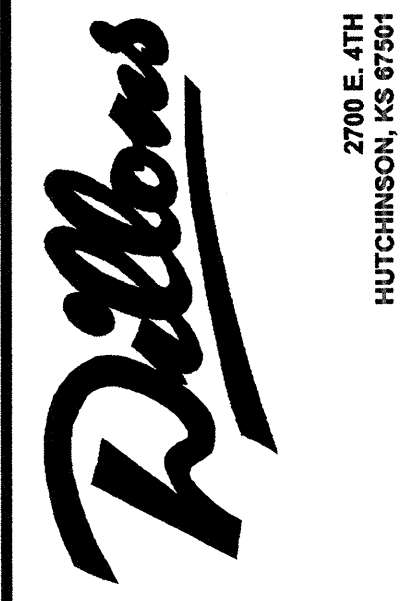
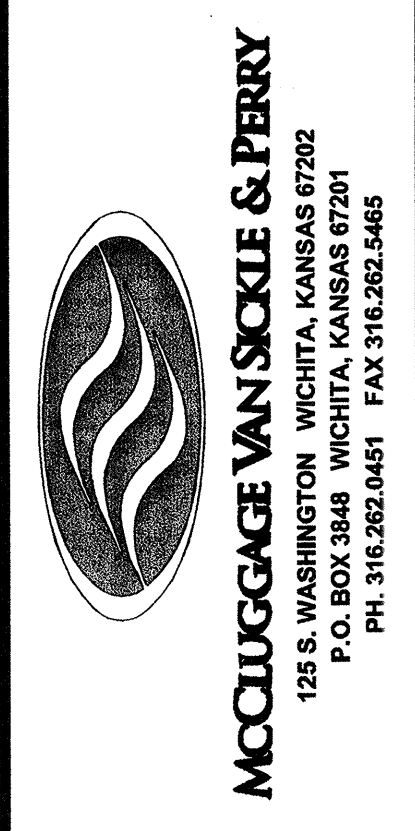
RADIANT CEILING PANEL SCHEDULE - ELECTRIC

MARK	LOC AT ROOM	ELEMENT LENGTH	ELEMENT WIDTH	WATTS	BTUH	ELEC	AMPS	REMARKS	ELECT REF.
RCP-1	RR	4'-0"	2'-0"	500	1707	120V	4.2	(1)(A)	(B)
RCP-2	RR	4'-0"	2'-0"	500	1707	120V	4.2	(1)(A)	(B)

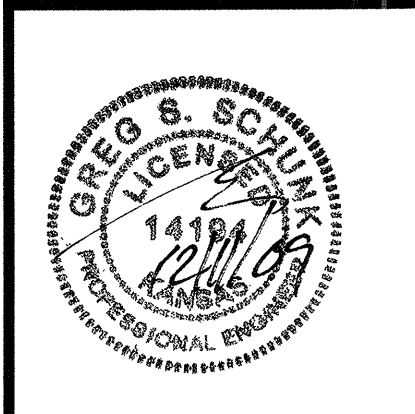
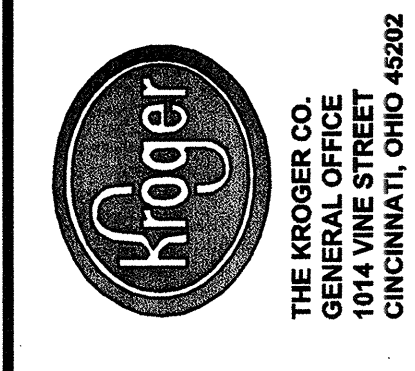
(1) BASED ON MARKEL CP805 ELECTRICAL RADIANT CEILING PANEL. PROVIDE WITH THERMOSTAT AND WIRING.

(A) PROVIDED AND INSTALLED BY CONTRACTOR.

(B) REFER TO ELECTRICAL.



DILLONS # DIL092
GROCERY STORE - REMODEL
640 N. WEST ST.
WICHITA, KANSAS 67203



109044
DATE: 11.30.09
REVISIONS

Δ	12/11/09	ADDENDUM #1
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M6.1

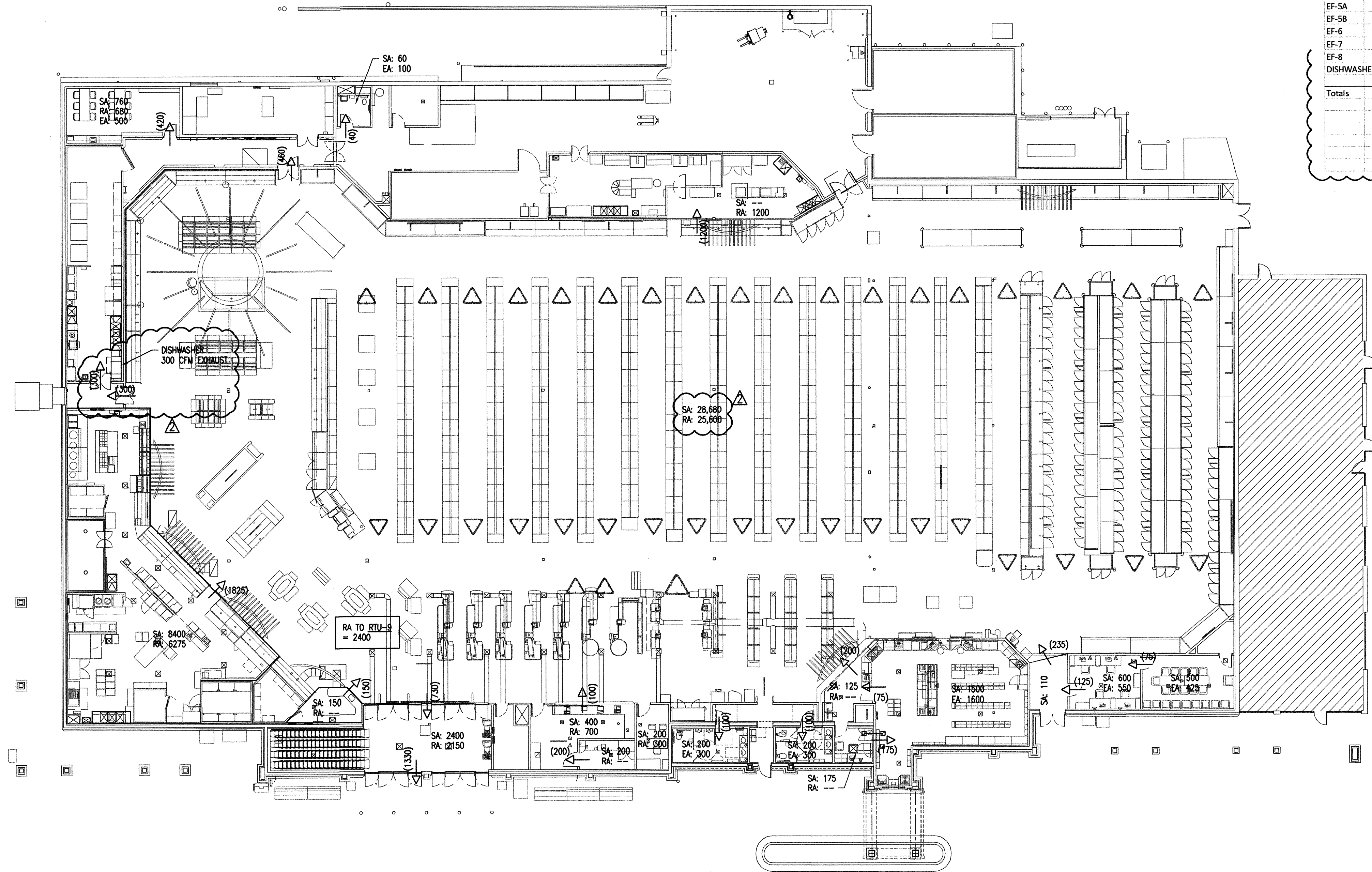
AS-BUILT



Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202 • 316-262-2691 • FAX 316-262-3003
www.pec1.com

HVAC SCHEDULES

12-22-09 2:26:42 PM by SPH
 11:13 12-22-09 2:28:21 PM
 12087085955\038\085955-008-MR10-Air Flow



Mark	Status	With	SA	RA	EA	OA	% OA	Notes	Original CFM
RTU-A	EXISTING		760	680		80	11%		
AHU-A	EXISTING								
AHU-B	DELETED								
AHU-1	NEW		20,000	17,500		2,500	13%		1219
RTU-1	DELETED								
RTU-2	DELETED								
RTU-3	EXISTING		800	700		100	13%		
RTU-4	DELETED								
RTU-5	EXISTING		1,400	1,250		150	11%		
RTU-6	EXISTING		2,800	2,500		300	11%		
RTU-7	EXISTING		2,500	2,250		250	10%		
RTU-8	EXISTING		2,700	2,400		300	11%		
RTU-9	NEW		8,400	2,400		6,000	71%		
RTU-10	NEW		1,100	975		125	11%		
RTU-11	NEW		1,800	1,600		200	11%		
RTU-12	NEW		2,400	2,150		250	10%		
EF-1	EXISTING					500			
EF-2	DELETED								1387
EF-3	NEW					2,100			
EF-4	NEW	KH-4				875			
EF-5A	NEW	KH-5A				1,800			
EF-5B	NEW	KH-5B				1,800			
EF-6	NEW					600		RESTROOM	
EF-7	NEW	KH-7				600		SEAFOOD HOOD	
EF-8	NEW					600		GENERAL SEAFOOD	
DISHWASHER						300			
Totals			44,660	34,405	9,175	10,255	23%		
								CFM Positive (Negative)	1,080

1 AIR FLOW DIAGRAM
 Scale: 3/32" = 1'-0"

McCluggage VanSokle & Perry
 123 S. WASHINGTON WICHITA, KANSAS 67202
 P.O. BOX 3848 WICHITA, KANSAS 67201
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Dillons
 2700 E. 4TH
 HUTCHINSON, KS 67501

DILLONS # DIL092
GROCERY STORE - REMODEL
 640 N. WEST ST.
 WICHITA, KANSAS 67203

Kroger
 THE KROGER CO.
 GENERAL OFFICE
 CINCINNATI, OHIO 45202

GREG S. SCHUNK
 LICENSED PROFESSIONAL ENGINEER
 12/22/09

109044
 DATE: 11.30.09

REVISIONS	ADDENDUM #2
12/23/09	

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AIRFLOW DIAGRAM

MR1.0